



**Groundwater Sample Results,
Combined Level 2 and Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 1701279**

*Naval Air Warfare Center Trenton
Trenton, New Jersey*

August 2019



October 09, 2017

Vista Work Order No. 1701279

Ms. Mary Mang
Tetra Tech
661 Andersen Drive, Foster Plaza 7
Pittsburgh, PA 15220

Dear Ms. Mang,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on September 20, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'NAWC Trenton'. The SDG Number is WE08.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads "Martha Maier".

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

SDG Number WE08

Vista Work Order No. 1701279

Case Narrative

Sample Condition on Receipt:

Sixteen aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

Modified EPA Method 537

The samples were extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The OPR recoveries were within the method acceptance criteria.

The extract of sample "MH-118.5T-20170918" was re-injected because it followed an extract with an analyte with a concentration greater than the highest point in the calibration curve. The results from the re-injection have been reported.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

As requested, an MS/MSD was performed on sample "GR-OF-20170918". The MS/MSD recoveries and/or RPDs were out of the criteria for PFHxS and PFOS. The concentrations of these analytes in the samples are very high relative to the concentrations of the added spike solution.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1701279-01	GR-OF-20170918	Modified EPA Method 537	13C3-PFBS	H	171
1701279-03	MH-117T-20170918	Modified EPA Method 537	13C3-PFBS	H	185
1701279-04	MH-118.5N-20170918	Modified EPA Method 537	13C3-PFBS	H	171
1701279-05	MH-118.5T-20170918	Modified EPA Method 537	13C3-PFBS	H	173
1701279-06	MH-121.5N-20170918	Modified EPA Method 537	13C3-PFBS	H	173
1701279-09	DUP01-20170918	Modified EPA Method 537	13C3-PFBS	H	154
1701279-10	MH-140-BOTTOM	Modified EPA Method 537	13C3-PFBS	H	172
1701279-11	MH-140N-20170918	Modified EPA Method 537	13C3-PFBS	H	155
1701279-12	INTERCEPTOR SUMP-20170918	Modified EPA Method 537	13C3-PFBS	H	165
1701279-15	SPRING-20170918	Modified EPA Method 537	13C3-PFBS	H	159
B7I0105-BLK1	B7I0105-BLK1	Modified EPA Method 537	13C3-PFBS	H	155
B7I0105-BS1	B7I0105-BS1	Modified EPA Method 537	13C3-PFBS	H	189
B7I0105-MS1	B7I0105-MS1	Modified EPA Method 537	13C3-PFBS	H	165
B7I0105-MSD1	B7I0105-MSD1	Modified EPA Method 537	13C3-PFBS	H	163

H = Recovery was outside laboratory acceptance criteria.

In addition, the laboratory QC officer must read and sign a copy of the Quality Assurance Review Form displayed on the next page of this Attachment. Electronic deliverables are not considered to be complete without the accompanying Quality Assurance Review Form.

I Anna Helala, as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at (916) 6731520 If there are any questions or problems with the enclosed electronic deliverables.

Signature: John S. Ame Title: QA Manager Date: 10/09/2017

Revision 9
ISG
08/18/16

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701279-01	GR-OF-20170918	MS/MSD18-Sep-17 08:10	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-02	MH-117N-20170918	18-Sep-17 09:05	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-03	MH-117T-20170918	18-Sep-17 09:15	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-04	MH-118.5N-20170918	18-Sep-17 09:45	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-05	MH-118.5T-20170918	18-Sep-17 10:20	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-06	MH-121.5N-20170918	18-Sep-17 11:05	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-07	MH-121.5T-20170918	18-Sep-17 11:10	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-08	WEST DITCH IN-20170918	18-Sep-17 13:55	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-09	DUP01-20170918	18-Sep-17 09:00	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-10	MH-140-BOTTOM	18-Sep-17 14:20	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-11	MH-140N-20170918	18-Sep-17 14:35	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-12	INTERCEPTOR SUMP-20170918	18-Sep-17 09:05	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-13	DUP03-20170918	18-Sep-17 12:00	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-14	ROOF DRAIN-20170918	18-Sep-17 15:30	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-15	SPRING-20170918	18-Sep-17 15:45	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701279-16	FRB01-20170918	18-Sep-17 16:45	20-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank **Modified EPA Method 537**

Client Data				Laboratory Data							
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B7I0105-BLK1	Column:	BEH C18				
Project:	NAWC Trenton										

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.895	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFHxA	ND	1.09	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFHpA	ND	0.296	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFHxS	ND	0.474	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFOA	ND	0.326	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFOS	ND	0.404	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFNA	ND	0.405	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFDA	ND	0.745	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
MeFOSAA	ND	0.825	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFUnA	ND	0.525	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
EtFOSAA	ND	0.685	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFDoA	ND	0.396	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFTrDA	ND	0.247	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFTeDA	ND	0.378	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	155	50 - 150	H	B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFHxA	IS	90.7	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C4-PFHpA	IS	97.5	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
18O2-PFHxS	IS	92.5	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFOA	IS	95.4	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C8-PFOS	IS	96.0	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C5-PFNA	IS	83.0	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFDA	IS	81.5	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
d3-MeFOSAA	IS	69.8	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFUnA	IS	75.1	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
d5-EtFOSAA	IS	66.9	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFDoA	IS	71.0	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFTeDA	IS	79.2	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: OPR

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B7I0105-BS1	Column:	BEH C18
Project:	NAWC Trenton						

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	34.2	40.0	85.5	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFHxA	39.0	40.0	97.6	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFHpA	36.0	40.0	90.0	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFHxS	37.7	40.0	94.3	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFOA	35.7	40.0	89.4	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFOS	39.6	40.0	99.1	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFNA	38.3	40.0	95.8	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFDA	35.7	40.0	89.3	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
MeFOSAA	30.8	40.0	77.1	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFUnA	35.3	40.0	88.2	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
EtFOSAA	35.8	40.0	89.6	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFDoA	40.1	40.0	100	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFTTrDA	33.5	40.0	83.8	60-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFTeDA	36.9	40.0	92.3	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	189	50- 150	H	B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFHxA	IS	114	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C4-PFHpA	IS	109	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
18O2-PFHxS	IS	109	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFOA	IS	96.8	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C8-PFOS	IS	95.1	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C5-PFNA	IS	97.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFDA	IS	89.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
d3-MeFOSAA	IS	82.3	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFUnA	IS	90.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
d5-EtFOSAA	IS	78.8	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFDoA	IS	82.4	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFTeDA	IS	93.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1

Sample ID: GR-OF-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-01	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 08:10	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	14.3	1.91	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFHxA	72.9	2.33	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFHpA	27.1	0.632	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFHxS	87.3	1.01	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOA	12.1	0.696	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOS	184	0.862	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFNA	ND	0.866	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFDA	ND	1.59	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
MeFOSAA	ND	1.76	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOA	ND	1.12	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
EtFOSAA	ND	1.46	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOA	ND	0.846	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOA	ND	0.528	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOA	ND	0.807	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	171	50 - 150	H	B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFHxA	IS	104	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C4-PFHpA	IS	97.5	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
18O2-PFHxS	IS	95.1	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFOA	IS	106	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C8-PFOS	IS	96.7	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C5-PFNA	IS	99.4	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFDA	IS	88.6	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
d3-MeFOSAA	IS	82.4	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFOA	IS	97.3	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
d5-EtFOSAA	IS	85.1	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFOA	IS	78.6	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFOA	IS	93.0	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: GR-OF-20170918

Modified EPA Method 537

Name:	Tetra Tech	Lab Sample:	B7I0105-MS1/B7I0105-MSD1	Source Lab Sample:	1701279-01
Project:	NAWC Trenton	QC Batch:	B7I0105	Date Extracted:	25-Sep-17
Matrix:	Aqueous	Samp Size:	0.116/0.117 L	Column:	BEH C18

Analyte	Sample (ng/L)	MS (ng/L)	MS Spike Amt	MS % Rec	MS Quals	MSD (ng/L)	MSD Spike Amt	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	14.3	98.7	86.0	98.1		104	85.6	104	5.84		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFHxA	72.9	149	86.0	88.1		150	85.6	89.8	1.91		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFHpA	27.1	105	86.0	90.9		110	85.6	97.0	6.49		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFHxS	87.3	175	86.0	102		138	85.6	59.3	52.9	H	70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFOA	12.1	94.0	86.0	95.2		97.4	85.6	99.7	4.62		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFOS	184	350	86.0	192	H	352	85.6	195	1.55	H	70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFNA	ND	84.3	86.0	97.8		91.8	85.6	107	8.98		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFDA	ND	80.0	86.0	93.0		85.5	85.6	99.9	7.15		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
MeFOSAA	ND	79.7	86.0	92.6		80.7	85.6	94.3	1.82		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFUnA	ND	91.1	86.0	106		82.5	85.6	96.4	9.49		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
EtFOSAA	ND	74.2	86.0	86.3		84.8	85.6	99.0	13.7		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFDoA	ND	67.7	86.0	78.7		72.9	85.6	85.2	7.93		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFTTrDA	ND	75.5	86.0	87.8		74.7	85.6	87.3	0.571		60-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFTeDA	ND	76.1	86.0	88.4		75.5	85.6	88.3	0.113		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	165	H	163	H	50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFHxA	IS	103		112		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C4-PFHpA	IS	96.2		91.1		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
18O2-PFHxS	IS	97.6		115		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFOA	IS	92.1		99.5		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C8-PFOS	IS	91.5		92.9		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C5-PFNA	IS	92.6		93.8		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFDA	IS	92.9		85.5		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
d3-MeFOSAA	IS	85.3		83.3		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFUnA	IS	74.8		86.0		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
d5-EtFOSAA	IS	87.8		80.9		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFDoA	IS	87.4		91.6		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFTeDA	IS	94.8		96.6		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1

Sample ID: MH-117N-20170918

Modified EPA Method 537

Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	1701279-02	Column:	BEH C18		
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:05		Date Received:	20-Sep-17 09:07				
SDG:	WE08									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	133	1.92	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFHxA	590	2.34	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFHpA	193	0.635	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFHxS	768	1.02	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFOA	78.4	0.700	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFOS	1740	0.867	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFNA	7.22	0.871	5.39	8.60	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFDA	1.83	1.60	5.39	8.60	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
MeFOSAA	ND	1.77	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFUnA	ND	1.13	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
EtFOSAA	ND	1.47	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFDoA	ND	0.851	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFTrDA	ND	0.531	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFTeDA	ND	0.812	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	138	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFHxA	IS	97.8	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C4-PFHpA	IS	80.7	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
18O2-PFHxS	IS	114	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFOA	IS	92.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C8-PFOS	IS	96.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C5-PFNA	IS	78.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFDA	IS	80.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
d3-MeFOSAA	IS	83.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFUnA	IS	80.8	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
d5-EtFOSAA	IS	71.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFDoA	IS	63.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFTeDA	IS	88.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-117T-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-03	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:15	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	93.7	2.02	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFHxA	444	2.46	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFHpA	136	0.667	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFHxS	550	1.07	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFOA	60.1	0.735	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFOS	1430	0.911	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFNA	4.31	0.915	5.63	9.03	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFDA	2.15	1.68	5.63	9.03	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
MeFOSAA	ND	1.86	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFUnA	ND	1.19	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
EtFOSAA	ND	1.55	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFDoA	ND	0.894	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFTrDA	ND	0.558	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFTeDA	ND	0.853	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	185	50 - 150	H	B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFHxA	IS	104	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C4-PFHpA	IS	78.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
18O2-PFHxS	IS	103	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFOA	IS	95.8	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C8-PFOS	IS	106	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C5-PFNA	IS	86.2	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFDA	IS	92.4	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
d3-MeFOSAA	IS	69.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFUnA	IS	89.4	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
d5-EtFOSAA	IS	71.8	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFDoA	IS	83.3	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFTeDA	IS	84.0	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-118.5N-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-04	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:45	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	164	2.13	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFHxA	770	2.60	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFHpA	223	0.704	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFHxS	1170	1.13	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFOA	123	0.775	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFOS	4240	4.80	29.8	47.6	D	B7I0105	25-Sep-17	0.105 L	28-Sep-17 15:13	5
PFNA	16.2	0.964	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFDA	5.70	1.77	5.95	9.53	J	B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
MeFOSAA	ND	1.96	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFUnA	ND	1.25	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
EtFOSAA	ND	1.63	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFDoA	ND	0.943	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFTrDA	ND	0.588	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFTeDA	ND	0.899	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	171	50 - 150	H	B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFHxA	IS	110	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C4-PFHpA	IS	94.1	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
18O2-PFHxS	IS	98.5	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFOA	IS	93.2	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C8-PFOS	IS	110	50 - 150	D	B7I0105	25-Sep-17	0.105 L	28-Sep-17 15:13	5
13C5-PFNA	IS	72.8	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFDA	IS	110	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
d3-MeFOSAA	IS	90.7	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFUnA	IS	87.9	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
d5-EtFOSAA	IS	90.2	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFDoA	IS	89.5	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFTeDA	IS	105	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-118.5T-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-05	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 10:20	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.99	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFHxA	125	2.42	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFHpA	60.8	0.655	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFHxS	14.3	1.05	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFOA	13.2	0.722	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFOS	13.2	0.895	5.53	8.87		B7I0105	25-Sep-17	0.113 L	28-Sep-17 14:48	1
PFNA	2.13	0.898	5.53	8.87	J	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFDA	ND	1.65	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
MeFOSAA	ND	1.83	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFUnA	ND	1.16	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
EtFOSAA	ND	1.52	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFDoA	ND	0.878	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFTrDA	ND	0.548	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFTeDA	ND	0.837	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	173	50 - 150	H	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFHxA	IS	111	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C4-PFHpA	IS	112	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
18O2-PFHxS	IS	115	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFOA	IS	96.1	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C8-PFOS	IS	104	50 - 150		B7I0105	25-Sep-17	0.113 L	28-Sep-17 14:48	1
13C5-PFNA	IS	89.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFDA	IS	74.3	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
d3-MeFOSAA	IS	78.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFUnA	IS	77.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
d5-EtFOSAA	IS	75.7	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFDoA	IS	73.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFTeDA	IS	89.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-121.5N-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-06	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 11:05	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	4.28	1.98	5.53	8.83	J	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFHxA	341	2.41	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFHpA	156	0.653	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFHxS	21.5	1.05	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFOA	26.3	0.719	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFOS	13.6	0.891	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFNA	3.65	0.895	5.53	8.83	J	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFDA	ND	1.65	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
MeFOSAA	ND	1.82	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFUnA	ND	1.16	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
EtFOSAA	ND	1.51	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFDoA	ND	0.875	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFTrDA	ND	0.546	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFTeDA	ND	0.834	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	173	50 - 150	H	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFHxA	IS	101	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C4-PFHpA	IS	101	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
18O2-PFHxS	IS	111	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFOA	IS	101	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C8-PFOS	IS	112	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C5-PFNA	IS	96.7	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFDA	IS	88.4	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
d3-MeFOSAA	IS	98.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFUnA	IS	94.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
d5-EtFOSAA	IS	91.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFDoA	IS	96.9	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFTeDA	IS	113	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-121.5T-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-07	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 11:10	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.05	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFHxA	31.4	2.50	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFHpA	19.2	0.677	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFHxS	2.90	1.08	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFOA	9.10	0.746	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFOS	5.71	0.924	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFNA	1.84	0.928	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFDA	ND	1.71	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
MeFOSAA	ND	1.89	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFUnA	ND	1.20	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
EtFOSAA	ND	1.57	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFDoA	ND	0.907	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFTrDA	ND	0.566	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFTeDA	ND	0.865	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	145	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFHxA	IS	93.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C4-PFHpA	IS	85.7	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
18O2-PFHxS	IS	108	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFOA	IS	91.9	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C8-PFOS	IS	109	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C5-PFNA	IS	89.2	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFDA	IS	96.1	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
d3-MeFOSAA	IS	82.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFUnA	IS	81.4	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
d5-EtFOSAA	IS	83.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFDoA	IS	76.6	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFTeDA	IS	97.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: WEST DITCH IN-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-08	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 13:55	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.97	1.94	5.43	8.66	J	B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFHxA	104	2.36	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFHpA	68.0	0.640	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFHxS	3.17	1.03	5.43	8.66	J	B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFOA	40.0	0.705	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFOS	9.80	0.874	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFNA	10.7	0.877	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFDA	ND	1.61	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
MeFOSAA	ND	1.79	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFUnA	1.76	1.14	5.43	8.66	J	B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
EtFOSAA	ND	1.48	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFDoA	ND	0.858	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFTrDA	ND	0.535	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFTeDA	ND	0.818	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	138	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFHxA	IS	94.5	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C4-PFHpA	IS	86.7	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
18O2-PFHxS	IS	105	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFOA	IS	98.6	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C8-PFOS	IS	104	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C5-PFNA	IS	80.9	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFDA	IS	95.4	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
d3-MeFOSAA	IS	71.3	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFUnA	IS	73.5	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
d5-EtFOSAA	IS	75.2	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFDoA	IS	88.8	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFTeDA	IS	88.6	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: DUP01-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-09	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:00	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.96	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFHxA	94.1	2.39	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFHpA	65.0	0.647	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFHxS	5.60	1.04	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOA	40.1	0.713	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOS	10.7	0.883	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFNA	8.62	0.887	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFDA	1.71	1.63	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
MeFOSAA	ND	1.81	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFUnA	2.25	1.15	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
EtFOSAA	ND	1.50	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFDoA	ND	0.867	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFTrDA	ND	0.541	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFTeDA	ND	0.827	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	154	50 - 150	H	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFHxA	IS	108	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C4-PFHpA	IS	94.9	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
18O2-PFHxS	IS	105	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFOA	IS	99.5	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C8-PFOS	IS	99.1	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C5-PFNA	IS	82.4	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFDA	IS	89.3	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
d3-MeFOSAA	IS	92.0	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFUnA	IS	89.9	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
d5-EtFOSAA	IS	96.1	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFDoA	IS	112	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFTeDA	IS	115	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-140-BOTTOM

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-10	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 14:20	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.09	2.01	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFHxA	100	2.45	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFHpA	70.1	0.665	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFHxS	5.05	1.07	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFOA	37.7	0.732	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFOS	3.16	0.908	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFNA	7.81	0.911	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFDA	ND	1.68	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
MeFOSAA	ND	1.86	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFUnA	ND	1.18	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
EtFOSAA	ND	1.54	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFDoA	ND	0.891	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFTrDA	ND	0.556	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFTeDA	ND	0.849	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	172	50 - 150	H	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFHxA	IS	100	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C4-PFHpA	IS	92.3	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
18O2-PFHxS	IS	110	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFOA	IS	92.2	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C8-PFOS	IS	93.7	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C5-PFNA	IS	86.4	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFDA	IS	83.2	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
d3-MeFOSAA	IS	87.7	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFUnA	IS	90.0	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
d5-EtFOSAA	IS	74.1	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFDoA	IS	77.8	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFTeDA	IS	98.5	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-140N-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-11	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 14:35	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.01	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFHxA	99.5	2.45	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFHpA	73.1	0.665	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFHxS	7.08	1.07	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFOA	42.1	0.732	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFOS	6.90	0.908	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFNA	9.49	0.911	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFDA	ND	1.68	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
MeFOSAA	ND	1.86	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFUnA	ND	1.18	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
EtFOSAA	ND	1.54	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFDoA	ND	0.891	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFTrDA	ND	0.556	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFTeDA	ND	0.849	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	155	50 - 150	H	B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFHxA	IS	100	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C4-PFHpA	IS	66.7	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
18O2-PFHxS	IS	95.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFOA	IS	87.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C8-PFOS	IS	97.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C5-PFNA	IS	84.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFDA	IS	89.2	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
d3-MeFOSAA	IS	70.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFUnA	IS	87.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
d5-EtFOSAA	IS	71.3	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFDoA	IS	91.7	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFTeDA	IS	90.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: INTERCEPTOR SUMP-20170918
Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-12	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:05	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.07	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFHxA	27.0	2.52	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFHpA	19.0	0.683	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFHxS	6.49	1.09	5.79	9.25	J	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOA	25.0	0.753	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOS	6.39	0.933	5.79	9.25	J	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFNA	3.05	0.936	5.79	9.25	J	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFDA	ND	1.72	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
MeFOSAA	ND	1.91	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOA	ND	1.21	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
EtFOSAA	ND	1.58	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOA	ND	0.916	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOA	ND	0.571	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOA	ND	0.873	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	165	50 - 150	H	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFHxA	IS	106	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C4-PFHpA	IS	74.9	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
18O2-PFHxS	IS	102	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFOA	IS	94.5	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C8-PFOS	IS	107	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C5-PFNA	IS	91.8	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFDA	IS	93.7	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
d3-MeFOSAA	IS	76.3	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFOA	IS	96.3	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
d5-EtFOSAA	IS	88.2	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFOA	IS	95.2	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFOA	IS	90.3	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: DUP03-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-13	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 12:00	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.79	1.94	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFHxA	24.0	2.36	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFHpA	16.1	0.639	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFHxS	5.46	1.02	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOA	23.0	0.704	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOS	5.06	0.873	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFNA	1.84	0.876	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFDA	ND	1.61	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
MeFOSAA	ND	1.78	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFUnA	ND	1.14	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
EtFOSAA	ND	1.48	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFDoA	ND	0.857	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFTrDA	ND	0.534	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFTeDA	ND	0.817	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	136	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFHxA	IS	99.0	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C4-PFHpA	IS	84.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
18O2-PFHxS	IS	91.6	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFOA	IS	88.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C8-PFOS	IS	104	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C5-PFNA	IS	84.6	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFDA	IS	87.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
d3-MeFOSAA	IS	87.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFUnA	IS	77.7	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
d5-EtFOSAA	IS	88.2	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFDoA	IS	88.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFTeDA	IS	103	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: ROOF DRAIN-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-14	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 15:30	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.56	2.06	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFHxA	96.4	2.51	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFHpA	60.7	0.679	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFHxS	4.34	1.09	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	39.4	0.748	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOS	2.16	0.927	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFNA	6.54	0.931	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFDA	ND	1.71	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
MeFOSAA	ND	1.90	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	1.21	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
EtFOSAA	ND	1.57	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	0.910	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	0.568	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	0.868	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFHxA	IS	94.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C4-PFHpA	IS	86.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
18O2-PFHxS	IS	103	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	81.1	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C8-PFOS	IS	112	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C5-PFNA	IS	76.3	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFDA	IS	80.7	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
d3-MeFOSAA	IS	93.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	112	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
d5-EtFOSAA	IS	93.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	97.9	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	111	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: SPRING-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-15	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 15:45	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFHxA	128	2.35	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFHpA	94.1	0.637	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFHxS	4.19	1.02	5.39	8.62	J	B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFOA	47.4	0.702	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFOS	5.74	0.870	5.39	8.62	J	B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFNA	12.2	0.873	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFDA	ND	1.61	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
MeFOSAA	ND	1.78	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFUnA	ND	1.13	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
EtFOSAA	ND	1.48	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFDoA	ND	0.854	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFTrDA	ND	0.532	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFTeDA	ND	0.814	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	159	50 - 150	H	B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFHxA	IS	100	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C4-PFHpA	IS	73.1	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
18O2-PFHxS	IS	110	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFOA	IS	92.0	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C8-PFOS	IS	108	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C5-PFNA	IS	92.1	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFDA	IS	91.4	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
d3-MeFOSAA	IS	72.0	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFUnA	IS	89.3	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
d5-EtFOSAA	IS	79.0	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFDoA	IS	93.3	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFTeDA	IS	93.9	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: FRB01-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-16	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 16:45	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.94	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFHxA	ND	2.36	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFHpA	ND	0.639	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFHxS	ND	1.02	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFOA	ND	0.704	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFOS	ND	0.873	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFNA	ND	0.876	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFDA	ND	1.61	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
MeFOSAA	ND	1.78	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFUnA	ND	1.14	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
EtFOSAA	ND	1.48	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFDoA	ND	0.857	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFTrDA	ND	0.534	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFTeDA	ND	0.817	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	122	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFHxA	IS	98.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C4-PFHpA	IS	78.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
18O2-PFHxS	IS	102	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFOA	IS	85.7	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C8-PFOS	IS	105	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C5-PFNA	IS	90.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFDA	IS	69.0	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
d3-MeFOSAA	IS	66.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFUnA	IS	62.1	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
d5-EtFOSAA	IS	61.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFDoA	IS	68.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFTeDA	IS	62.0	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The associated compound concentration exceeded the calibration range of the instrument.
H	Recovery and/or RPD was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ.
M	Estimated Maximum Possible Concentration. (CA Region 2 projects only)
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope	EPA 1613B

Dilution GC/HRMS	
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

Submit by Email*



FOR LABORATORY USE ONLY

Laboratory Project ID: 1701279 Temp 1.7 °C
Storage ID: WR-2 Storage Secured Yes [X] No []

CHAIN OF CUSTODY RECORD

Project I.D.: NAWC Trenton P.O. #: 1132341-WR3 Sampler: Chuck Myer (Name)

TAT: (Check One) Standard [X] 21 days Rush (surcharge may apply) [] 14 days [] 7 days Specify:

Invoice to: Name Tetra Tech Company Foster Plaza VII Address 661 Anderson Drive City Pittsburgh State PA Zip 15220 Ph# 412-921-7090 Fax # 412-921-4040

Relinquished by: Chuck Myer Date: 9/19/2017 Time: 16:00 Received by: Marissa Sparks Date: 9/20/17 Time: 0939

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520 • Fax (916) 673-0106 Method of Shipment: FedEx Tracking No.: ATTN: Sample Custodian

Table with columns: Sample ID, Date, Time, Location/Sample Description, Quantity, Type, Matrix, and various analysis methods (EPA1613, EPA8290, EPA8280, EPA1668, EPA1631, CARB429, etc.). Rows include samples like GR-OF-20170918, MH-117N-20170918, etc.

Special Instructions/Comments: FedEx 7702 8831 5489

SEND DOCUMENTATION AND RESULTS TO:

Name: Mary Mang Company: Tetra Tech Address: 234 Mall Blvd Suite 260 City: King of Prussia State: PA Zip: 19406 Phone: 610-382-1174 Fax: 610-491-9645 Email: mary.mang@tetratech.com

Container Types: A = 1 Liter Amber, G = Glass Jar P = PUF, T = MM5 Train, O = Other PJ

*Bottle Preservative Type: [] T = Thiosulfate, [] O = Other

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B=Blood/Serum O = Other AQ

Submit by Email*



FOR LABORATORY USE ONLY

Laboratory Project ID: 1701279 Temp 1.7 °C
Storage ID: WR-2 Storage Secured: Yes No

CHAIN OF CUSTODY RECORD

Project I.D.: **NAWC Trenton** P.O. #: **1132341-WR3** Sampler: **Chuck Meyer** (Name)

TAT: (Check One)
Standard 21 days
Rush (surcharge may apply)
 14 days 7 days Specify: _____

Invoice to: Name **Tetra Tech** Company **Foster Plaza VII** Address **661 Anderson Drive** City **Pittsburgh** State **PA** Zip **15220** Ph# **412-921-7090** Fax # **412-921-4040**

Relinquished by: (Printed Name and Signature) **Chuck Meyer** Date: **9/19/2017** Time: **16:00** Received by: (Signature and Printed Name) **Mary Mang** Date: **9/20/17** Time: **0940**

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

Method of Shipment: **FedEx**
Tracking No.: _____

Quantity	Type	Matrix	Add Analysis(es) Requested																	
			2378-TCDD	2378-TCDD/TCDF	2378-TCDF	2378-TCDF	2378-TCDF	2378-TCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29	PFAS 14	EPA Method 537				
2	PJ	AQ																	X	
2	PJ	AQ																	X	
2	PJ	AQ																	X	DUP
2	PJ	AQ																	X	
2	PJ	AQ																	X	FRB

ATTN: **Sample Custodian**

Sample ID	Date	Time	Location/Sample Description
MH-140N-20170918	9/18/17	14:35	Trenton
INTERCEPTOR SUMP - 20170918	9/18/17	09:05	Trenton
DUP03-20170918	9/18/17	12:00	Trenton
ROOF DRAIN-20170918	9/18/17	15:30	Trenton
SPRING-20170918	9/18/17	15:45	Trenton
FRB01-20170918	9/18/17	16:45	Trenton

Special Instructions/Comments: **FedEx 7702 8831 5489**

SEND DOCUMENTATION AND RESULTS TO:

Name: **Mary Mang**
Company: **Tetra Tech**
Address: **234 Mall Blvd Suite 260**
City: **King of Prussia** State: **PA** Zip: **19406**
Phone: **610-382-1174** Fax: **610-491-9645**
Email: **mary.mang@tetratech.com**

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O = Other **PJ**

*Bottle Preservative Type: T = Thiosulfate,
 O = Other

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B=Blood/Serum
O = Other **AQ**

Sample Log-in Checklist

 Vista Work Order #: 1701279 TAT Std

Samples Arrival:	Date/Time 9/20/17 0907	Initials: WWS	Location: WR-2
			Shelf/Rack: N/A
Logged In:	Date/Time 09/21/17 0528	Initials: VBSB	Location: WR-2
			Shelf/Rack: F6 F7 9/21/17
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GSO	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C:	1.6 (uncorrected)	Time: 0938	Thermometer ID: IR-1
Temp °C:	1.7 (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # 7702 8831 5489	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	Na ₂ S ₂ O ₃	Trizma	<input checked="" type="radio"/> None
			Yes <input type="radio"/> No <input checked="" type="radio"/> NA
Shipping Container	Vista	<input checked="" type="radio"/> Client	Retain <input type="radio"/> Return <input checked="" type="radio"/> Dispose

Comments:

Correspondence

Karen Volpendesta

From: Karen Volpendesta
Sent: Thursday, September 21, 2017 11:48 AM
To: Mang, Mary (Mary.Mang@tetrattech.com); Ritchie, Megan (Megan.Ritchie@tetrattech.com)
Cc: Martha Maier
Subject: Vista Work Order #1701279; NAWC Trenton
Attachments: WO# 1701279_Acklet.pdf

Mary,

Please find attached the sample receiving acknowledgement for Vista Analytical Work Order: 1701279.

These samples will be analyzed by Modified EPA Method 537 for the list of 14 analytes.

If you have any questions, please contact me or Martha Maier at (916) 673-1520. We appreciate your business.

Best Regards,

Karen L. Volpendesta
(formerly Lopez)
Project Manager



Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
Phone: (916) 673-1520
www.vista-analytical.com

**Hours: Monday, Tuesday, & Thursday, 8am-4:30pm*

A woman-owned, small business enterprise.

EXTRACTION INFORMATION

Process Sheet
 Workorder: **1701279**

Prep Expiration: 2017-Oct-02
 Client: Tetra Tech

Workorder Due: **11-Oct-17 00:00**

TAT: 21

Method: **537M PFAS DOD (LOQ as mRL)**
 Matrix: **Aqueous**

Prep Batch: B7I0105

Version: 537 (14 Analyte)
 DoD: DoD QSM 5.1

Prep Data Entered: 9.26.17 JHC
 Date and Initials

Initial Sequence: _____

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701279-01	ABC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GR-OF-20170918	GR-OF-20170918 KC 9.22.17 MS/MSD	WR-2 F-7	HDPE Bottle, 125 mL
1701279-02		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-117N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-117T-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-118.5N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-118.5T-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-06		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-121.5N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-121.5T-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-08		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WEST DITCH IN-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-09		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DUP01-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-10		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-140-BOTTOM	MH-140-BOTTOM-20170918 KC 9.22.17	WR-2 F-7	HDPE Bottle, 125 mL
1701279-11		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-140N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-12		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	INTERCEPTOR SUMP-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-13		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DUP03-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-14		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ROOF DRAIN-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-15		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SPRING-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-16	V	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FRB01-20170918		WR-2 F-7	HDPE Bottle, 125 mL

WO Comments: Attach balance check doc.

Pre-Prep Check Out: KC 9.22.17 Prep Check Out: NA JHC 9.25.17 Prep Reconciled Initials/Date: KC 9.22.17
 Pre-Prep Check In: NA Prep Check In: NA Spike Reconciled Initials/Date: JHC 9.25.17
 VialBoxID: Heavy Dirt
 HB 9/22/17

BALANCE CALIBRATION CHECK

Weights # 22370 and 7718

GRB
9/14/17

Date	<input checked="" type="checkbox"/> for Weight # verification	Weight 1 1 g (0.9900 - 1.0100)	Weight 2 100 g (99.00 - 101.00)	Weight 3 2000 g (1980 - 2020)	Initials	Acceptable? (Y/N)
9/14/17	✓	1.01	99.98	1999.99	GRB	Y
9/14/17	✓	1.00	100.01	2000.02	GRB	Y
9/15/17	✓	0.99	100.00	1999.99	VL	Y
9.16.17	✓	1.01	100.00	2000.00	HC	Y
9.18.17	✓	1.01	99.99	2000.02	HC	Y
9.19.17	✓	1.00	100.00	2000.00	HC	Y
9.20.17	✓	1.01	99.99	2000.05	HC	Y
9.21.17	✓	1.01	100.01	2000.00	HC	Y
9.22.17	✓	0.99	100.01	2000.03	KC	Y
9.25.17	✓	0.99	100.00	1999.99	LC	Y
9.26.17	✓	1.00	100.00	2000.02	HC	Y
9.27.17	✓	1.01	99.99	2000.02	HC	Y
9.28.17	✓	1.00	100.00	2000.00	GRB	Y
9.29.17	✓	1.00	100.00	2000.02	HB	Y
9.30.17	✓	1.00	100.00	2000.05	HC	Y
10.2.17	✓	1.00	99.99	2000.02	GRB	Y
10.3.17	✓	0.99	99.99	2000.04	LC	Y
10.4.17	✓	1.00	100.00	2000.00	LC	Y
10.5.17	✓	1.00	99.99	2000.04	LC	Y
10/6/17	✓	1.01	99.99	2000.01	INTJ	Y

Comments:

Ⓐ BALANCE RECALIBRATED B/C IT WAS OUT OF LEVEL GRB 9/14/17

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS

Method: 537M PFAS DOD (LOQ as mRL)

B7I0105

Chemist: JTC

Prep Date/Time: 11-Sep-17 07:49

25 0900

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initials: HB 9/22/17 BalanceID: HRMS-8

Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B7I0105-BLK1 (A)	5	2	0	3	NA	NA	0.125 <u>0.25</u> <u>JTC</u>	<u>JTC</u> <u>TD</u> <u>9-25-17</u>	<u>JTC</u> <u>9-25-17</u>	<u>JTC</u> <u>KL</u> <u>9-25-17</u>
<input checked="" type="checkbox"/>	B7I0105-BS1	5	2	0	3	↓	↓	↓ <u>0.125</u>			
<input checked="" type="checkbox"/>	B7I0105-MS1 1701279-01	5	2	0	2	143.02	26.70	0.11632 ✓	↓	↓	↓
<input checked="" type="checkbox"/>	B7I0105-MSD1 1701279-01	5	2	0	2	143.78	26.94	0.11684 ✓			
<input type="checkbox"/>	1701267-01	7	2	0	4	268.29	27.20	0.24109			
<input type="checkbox"/>	1701270-01	7	2	0	3	148.08	26.69	0.12139			
<input type="checkbox"/>	1701270-02	7	2	0	3	146.68	26.84	0.11984			
<input type="checkbox"/>	1701279-01	5	2	0	2 <u>2</u>	143.81	26.83	0.11698 ✓			
<input type="checkbox"/>	1701279-02	5	2	0	2	143.07	26.78	0.11629 ✓			
<input type="checkbox"/>	1701279-03	5	2	0	2	137.62	26.92	0.11070 ✓			
<input type="checkbox"/>	1701279-04	5	2	0	2	131.85	26.87	0.10498 ✓			
<input type="checkbox"/>	1701279-05	5	2	0	2	139.57	26.86	0.11271 ✓			
<input type="checkbox"/>	1701279-06	5	2	0	2	139.97	26.78	0.11319 ✓			
<input type="checkbox"/>	1701279-07	5	2	0	2	135.90	26.76	0.10914 ✓			
<input type="checkbox"/>	1701279-08	5	2	0	2	142.39	26.97	0.11542 ✓			
<input type="checkbox"/>	1701279-09	5	2	0	2	141.04	26.86	0.11418 ✓			

IS: 17H1501, 10µL (U3) SPE Chem: Strata X-AW 33µm 200µm
 IS SUP: NA Ele SOLV: 0.5% NH₄OH in MeOH/water
 NS: 17G2428, 10µL (U3) Final Volume(s) 1µL
 RS: 17H1418, 10µL (V1)

Notes: (B) sample marked as centrifuged incorrectly HB 9/22/17
 (A) ~~0.625 g Trizma~~
+ 1.25 g Trizma added to ACS HB 9/22/17
9/22/17 HB

Comments: Assume 1 g = 1 mL
 Cen = Centrifuged

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS

Method: 537M PFAS DOD (LOQ as mRL)

B7I0105

Chemist: JL

Prep Date/Time: 21-Sep-17 07:49

25 0800

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initials: HJB 9/22/17 BalanceID: HRMJ-8

Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	1701279-10	5	2	0	2	138.06	26.96	0.11110	✓ HJB TLD 9.25.17 JL	9.25.17	JL VC 9.25.17
<input type="checkbox"/>	1701279-11	5	2	0	2	138.03	26.89	0.11114	✓	↓	↓
<input type="checkbox"/>	1701279-12	5	2	0	2	135.01	26.88	0.10813	✓	↓	↓
<input type="checkbox"/>	1701279-13	5	2	0	2	142.40	26.85	0.11555	✓	↓	↓
<input type="checkbox"/>	1701279-14	5	2	0	2	135.72	26.95	0.10877	✓	↓	↓
<input type="checkbox"/>	1701279-15	5	2	0	2	142.76	26.77	0.11599	✓	↓	↓
<input type="checkbox"/>	1701279-16	5	2	0	2	142.40	26.85	0.11555	✓	↓	↓

IS: <u>17H1501, 10µL (U3)</u>	SPE Chem: <u>Strata XAW 33µm 700nm 6µm</u>	Notes:
IS SUP: <u>NA</u>	Ele SOLV: <u>0.5% n-hexane in MeOH / MeOH</u>	
NS: <u>17G2428, 10µL (U3)</u>	Final Volume(s) <u>1mL</u>	
RS: <u>17H1218, 10µL (U1)</u>		

Comments: Assume 1 g = 1 mL

Cen = Centrifuged

Batch: B7I0105

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701267-01	0.24109 ✓			1000	25-Sep-17 08:00	HAC			Drinking Water	537M PFAS
1701270-01	0.12139 ✓			1000	25-Sep-17 08:00	HAC			Water	537M PFAS
1701270-02	0.11984 ✓			1000	25-Sep-17 08:00	HAC			Water	537M PFAS
1701279-01	0.11698 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS
1701279-01	0.11698 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-02	0.11629 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-03	0.1107 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-04	0.10498 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-05	0.11271 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-06	0.11319 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-07	0.10914 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-08	0.11542 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-09	0.11418 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-10	0.1111 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-11	0.11114 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-12	0.10813 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-13	0.11555 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-14	0.10877 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-15	0.11599 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701279-16	0.11555 ✓			1000	25-Sep-17 08:00	HAC			Aqueous	537M PFAS DOD (LOQ as
B7I0105-BLK1	0.25			1000	25-Sep-17 08:00	HAC				QC
B7I0105-BS1	0.25			1000	25-Sep-17 08:00	HAC	17G2428	✓ 10		QC
B7I0105-MS1	0.11632 ✓			1000	25-Sep-17 08:00	HAC	17G2428	✓ 10		QC
B7I0105-MSD1	0.11684 ✓			1000	25-Sep-17 08:00	HAC	17G2428	✓ 10		QC

Hu
9.26.17

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:34:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.1 > 79.9		8.70e3	0.25000		3.17				
2	4	PFHxA	313.2 > 268.9		1.03e4	0.25000		3.37				
3	5	PFHpA	363.1 > 319.1		4.89e4	0.25000		3.63				
4	6	L-PFHxS	399.0 > 80.0		3.34e3	0.25000		3.71				
5	9	L-PFOA	413 > 368.7	4.69e2	3.29e4	0.25000		3.84	3.83	0.178		
6	12	PFNA	463.1 > 419.1		3.26e4	0.25000		4.03				
7	14	L-PFOS	499 > 79.9		8.04e3	0.25000		4.08				
8	16	PFDA	513 > 468.8		2.49e4	0.25000		4.21				
9	18	N-MeFOSAA	570.1 > 419		5.90e3	0.25000		4.24				
10	19	N-EtFOSAA	584.2 > 419		6.17e3	0.25000		4.32				
11	20	PFUnA	562.9 > 518.9		2.75e4	0.25000		4.39				
12	22	PFDoA	613.0 > 569.1		2.72e4	0.25000		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:34:20 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTeDA	662.9 > 618.9	2.72e4	0.25000		4.78					
2	25	PFTeDA	712.9 > 668.8	2.16e4	0.25000		4.99					
3	31	13C3-PFBA	216.1 > 172.1	2.07e4	2.48e4	0.25000	0.890	1.88	1.85	10.4	47.0	94.0
4	32	13C3-PFPeA	266.1 > 222.1	3.26e4	4.02e4	0.25000	0.236	2.98	2.97	4.06	68.8	137.7
5	33	13C3-PFBS	302.1 > 79.9	8.70e3	4.02e4	0.25000	0.056	3.17	3.15	1.08	77.5	155.1
6	34	13C2-PFHxA	315 > 269.8	1.03e4	4.02e4	0.25000	0.283	3.37	3.37	1.29	18.1	90.7
7	35	13C4-PFHpA	367 > 322.1	4.89e4	4.02e4	0.25000	0.499	3.63	3.63	6.08	48.7	97.5
8	36	18O2-PFHxS	403 > 103.0	3.34e3	7.48e3	0.25000	0.482	3.71	3.70	5.58	46.3	92.5
9	37	13C2-6:2 FTS	429.1 > 408.9	5.35e3	2.98e4	0.25000	0.183	3.84	3.82	2.24	49.0	98.0
10	38	13C2-PFOA	414.9 > 369.7	3.29e4	2.98e4	0.25000	1.158	3.84	3.84	13.8	47.7	95.4
11	39	13C5-PFNA	468.1 > 423.1	3.26e4	4.42e4	0.25000	0.888	4.03	4.02	9.21	41.5	83.0
12	40	13C8-PFOSA	506.1 > 78.0	3.22e3	3.82e4	0.25000	0.143	4.04	4.03	1.06	29.6	59.2
13	41	13C8-PFOS	507 > 79.9	8.04e3	8.27e3	0.25000	1.013	4.08	4.08	12.2	48.0	96.0
14	42	13C2-PFDA	515.1 > 469.9	2.49e4	3.48e4	0.25000	0.876	4.21	4.20	8.92	40.8	81.5
15	43	13C2-8:2 FTS	529.1 > 508.7	4.17e3	3.48e4	0.25000	0.148	4.21	4.20	1.50	40.6	81.2
16	44	d3-N-MeFOSAA	573.3 > 419	5.90e3	3.82e4	0.25000	0.017	4.24	4.24	1.93	454	69.8
17	45	d5-N-EtFOSAA	589.3 > 419	6.17e3	3.82e4	0.25000	0.019	4.32	4.31	2.02	435	66.9
18	46	13C2-PFUnA	565 > 519.8	2.75e4	3.82e4	0.25000	0.959	4.39	4.39	9.00	37.5	75.1
19	47	13C2-PFDoA	615.1 > 570.1	2.72e4	3.82e4	0.25000	1.003	4.59	4.58	8.90	35.5	71.0
20	49	13C2-PFTeDA	714.8 > 669.6	2.16e4	3.82e4	0.25000	0.716	4.99	4.98	7.09	39.6	79.2
21	54	13C4-PFBA	217.1 > 172.1	2.48e4	2.48e4	0.25000	1.000	1.88	1.84	12.5	50.0	100.0
22	55	13C5-PFHxA	318 > 272.9	4.02e4	4.02e4	0.25000	1.000	3.37	3.37	5.00	20.0	100.0
23	56	13C3-PFHxS	402.1 > 80.0	7.48e3	7.48e3	0.25000	1.000	3.71	3.70	12.5	50.0	100.0
24	57	13C8-PFOA	421.3 > 376	2.98e4	2.98e4	0.25000	1.000	3.84	3.83	12.5	50.0	100.0
25	58	13C9-PFNA	472.1 > 427.1	4.42e4	4.42e4	0.25000	1.000	4.03	4.02	12.5	50.0	100.0
26	59	13C4-PFOS	503 > 79.9	8.27e3	8.27e3	0.25000	1.000	4.08	4.08	12.5	50.0	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.48e4	3.48e4	0.25000	1.000	4.21	4.20	12.5	50.0	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.82e4	3.82e4	0.25000	1.000	4.39	4.39	12.5	50.0	100.0
29	62	Total PFHxS	399.0 > 80.0	0.00e0	3.34e3	0.25000		3.71		0.000		
30	63	Total PFOA	413 > 368.7	4.69e2	3.29e4	0.25000		3.84		0.000		
31	64	Total PFOS	499 > 79.9	0.00e0	8.04e3	0.25000		4.08		0.000		
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	5.90e3	0.25000		4.24		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:34:20 Pacific Daylight Time

Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	6.17e3	0.25000		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:34:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	468.549	32905.195	0.178	MMI	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:34:04 Pacific Daylight Time

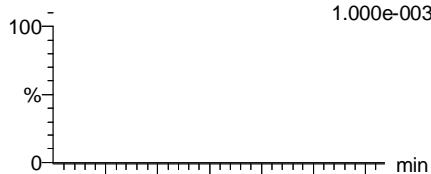
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

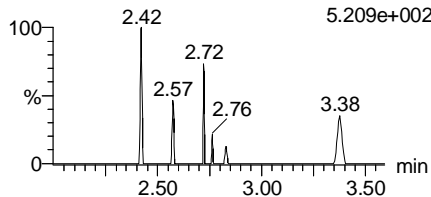
Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

PFBS

F6:MRM of 2 channels,ES-
299.1 > 79.9
1.000e-003

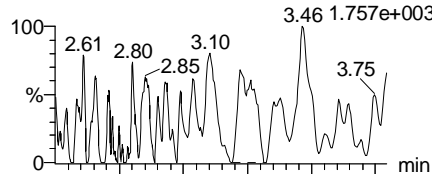


F6:MRM of 2 channels,ES-
299.1 > 98.9
5.209e+002

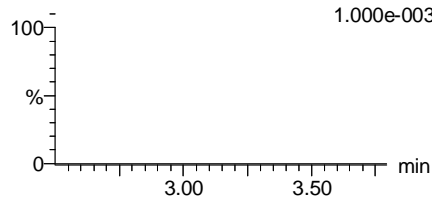


PFHxA

F8:MRM of 2 channels,ES-
313.2 > 268.9
3.46 1.757e+003

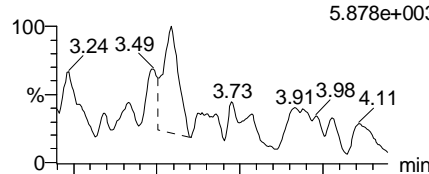


F8:MRM of 2 channels,ES-
313.2 > 119
1.000e-003

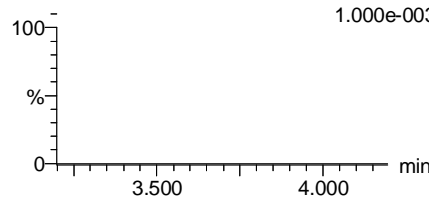


PFHpA

F14:MRM of 2 channels,ES-
363.1 > 319.1
5.878e+003

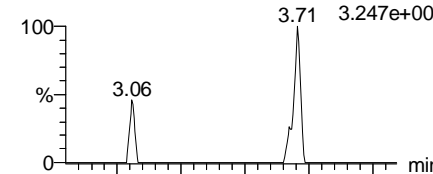


F14:MRM of 2 channels,ES-
363.1 > 169.1
1.000e-003

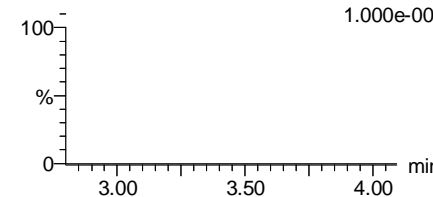


Total PFHxS

F16:MRM of 2 channels,ES-
399.0 > 80.0
3.247e+002

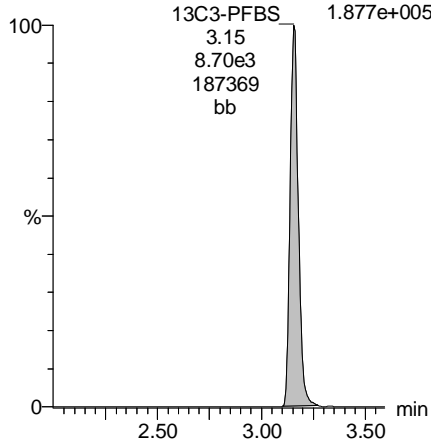


F16:MRM of 2 channels,ES-
399.0 > 99.0
1.000e-003



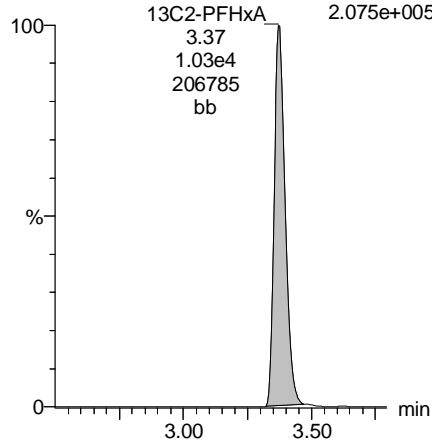
13C3-PFBS

F7:MRM of 1 channel,ES-
302.1 > 79.9
1.877e+005



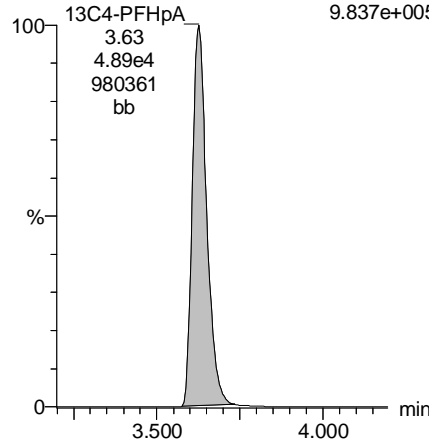
13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
2.075e+005



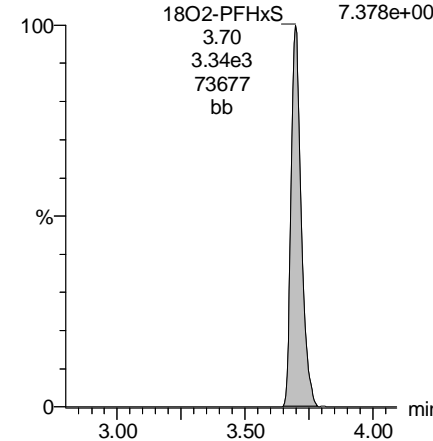
13C4-PFHpA

F15:MRM of 1 channel,ES-
367 > 322.1
9.837e+005



18O2-PFHxS

F18:MRM of 1 channel,ES-
403 > 103.0
7.378e+004



Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

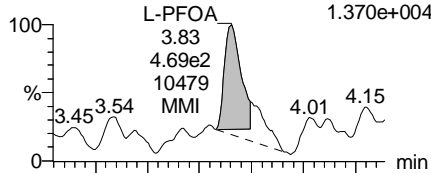
Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:34:04 Pacific Daylight Time

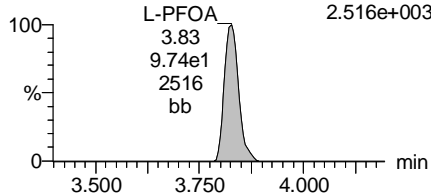
Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

Total PFOA

F19:MRM of 2 channels,ES-
413 > 368.7
1.370e+004

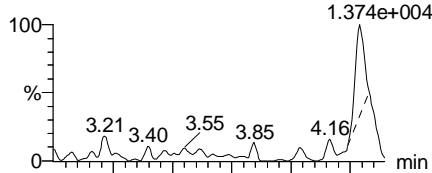


F19:MRM of 2 channels,ES-
413 > 169
2.516e+003

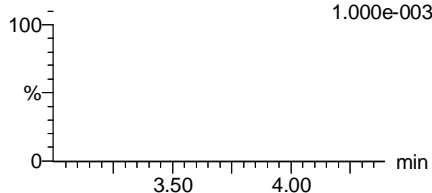


PFNA

F25:MRM of 2 channels,ES-
463.1 > 419.1
1.374e+004

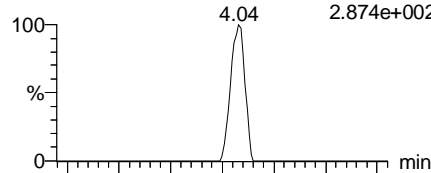


F25:MRM of 2 channels,ES-
463.1 > 219.1
1.000e-003

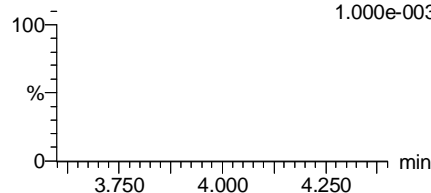


Total PFOS

F30:MRM of 2 channels,ES-
499 > 79.9
2.874e+002

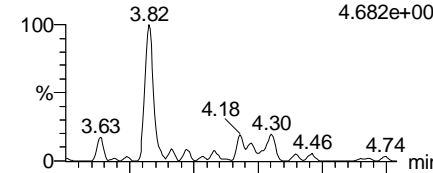


F30:MRM of 2 channels,ES-
499 > 99
1.000e-003

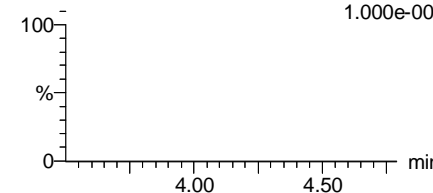


PFDA

F35:MRM of 2 channels,ES-
513 > 468.8
4.682e+003

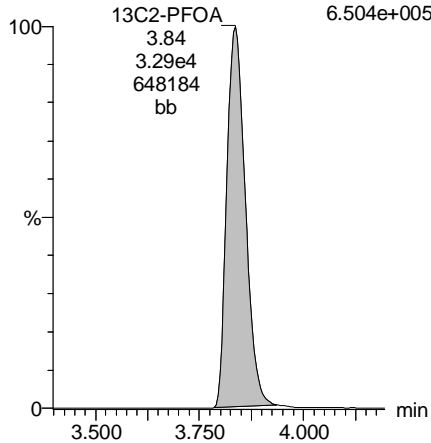


F35:MRM of 2 channels,ES-
513 > 219
1.000e-003



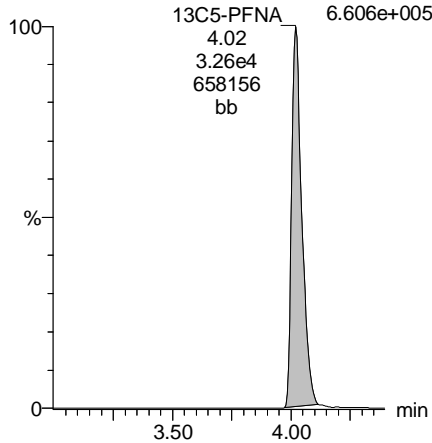
13C2-PFOA

F20:MRM of 1 channel,ES-
414.9 > 369.7
6.504e+005



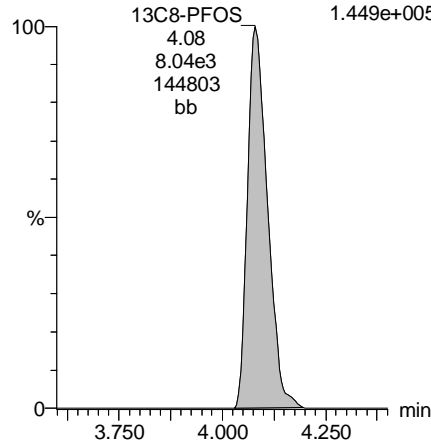
13C5-PFNA

F26:MRM of 1 channel,ES-
468.1 > 423.1
6.606e+005



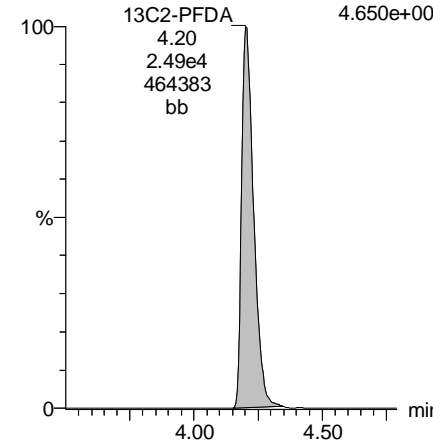
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.449e+005



13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
4.650e+005



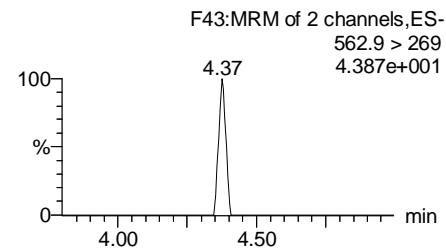
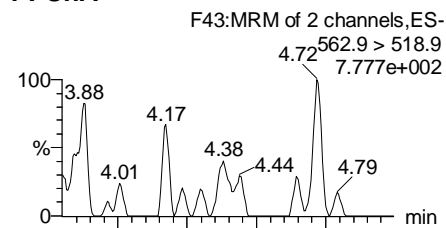
Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

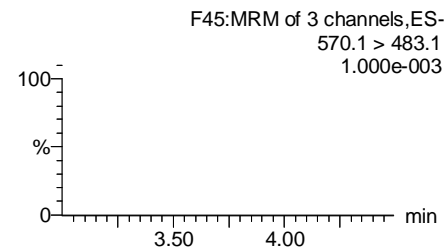
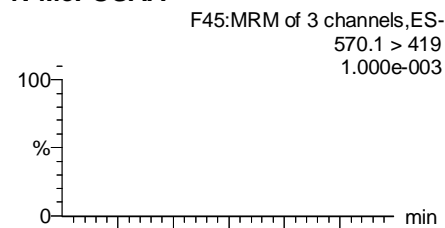
Printed: Wednesday, September 27, 2017 13:34:04 Pacific Daylight Time

Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

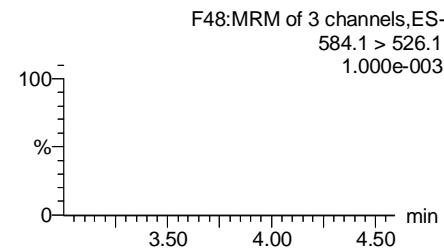
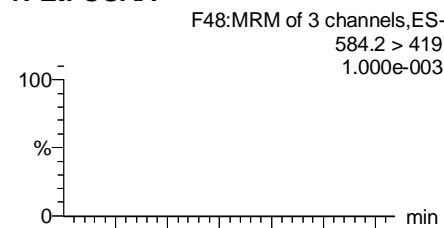
PFUnA



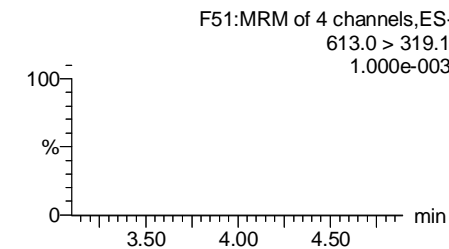
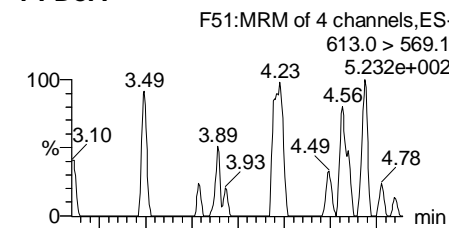
N-MeFOSAA



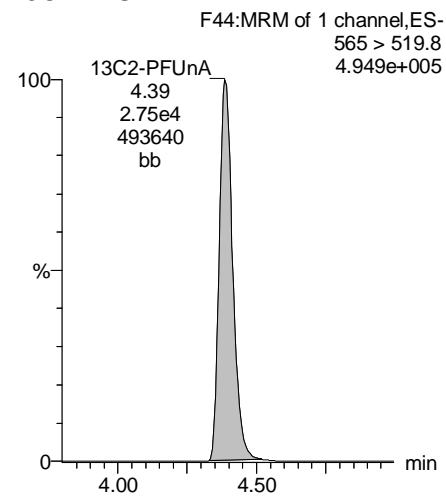
N-EtFOSAA



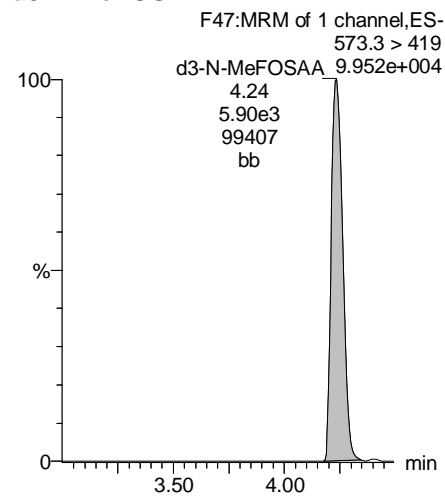
PFDaA



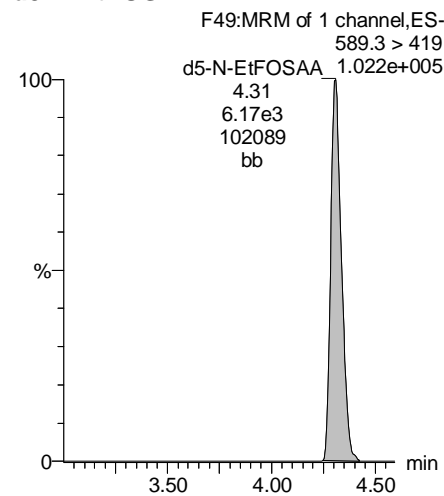
13C2-PFUnA



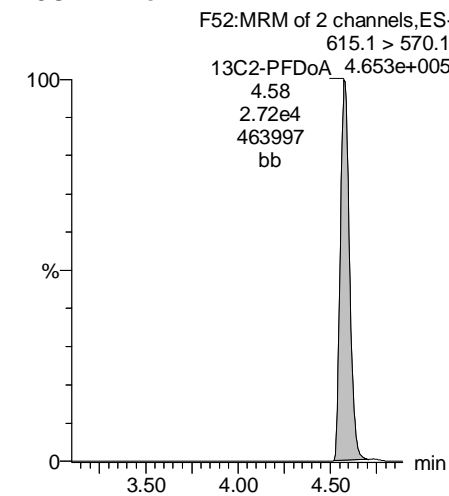
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

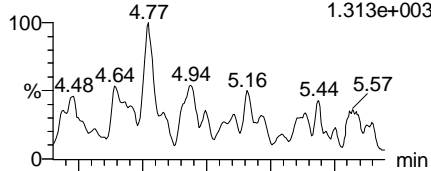
Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:34:04 Pacific Daylight Time

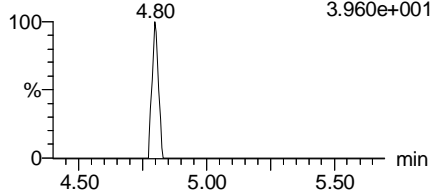
Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

PFTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
1.313e+003

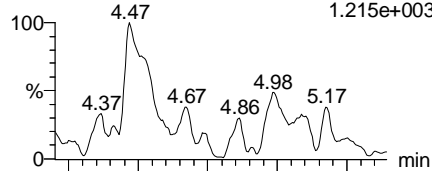


F57:MRM of 2 channels,ES-
662.9 > 319
3.960e+001

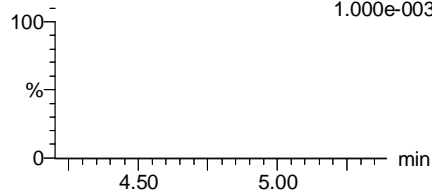


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
1.215e+003

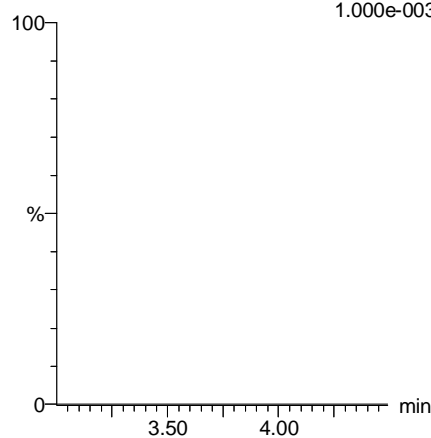


F58:MRM of 4 channels,ES-
712.9 > 369
1.000e-003



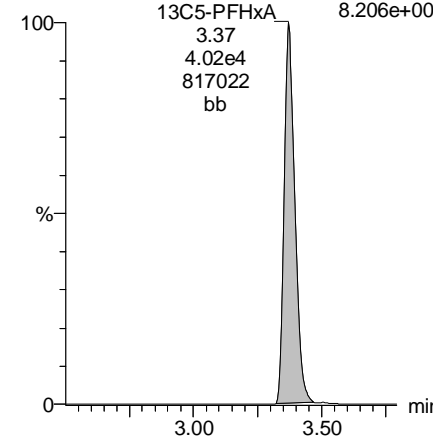
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
1.000e-003



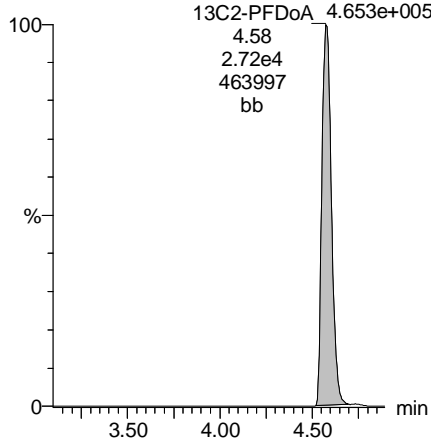
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.206e+005



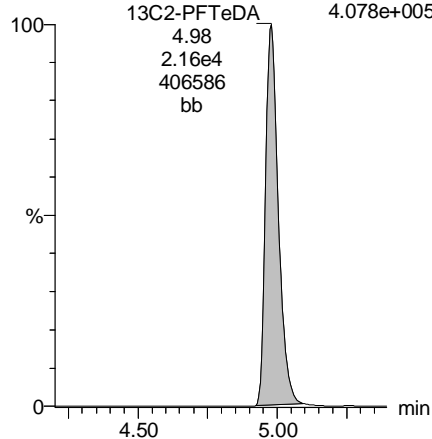
13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
13C2-PFDoA 4.653e+005



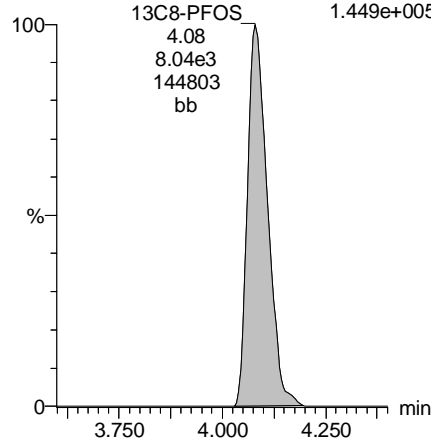
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
13C2-PFTeDA 4.078e+005



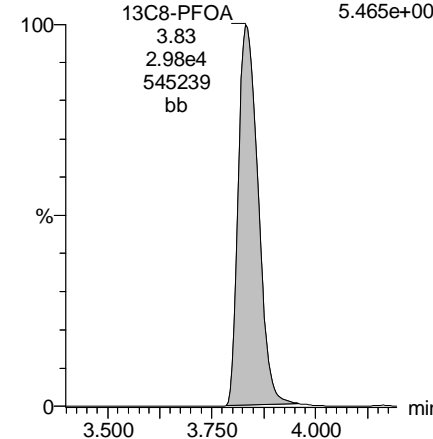
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
13C8-PFOS 1.449e+005



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
13C8-PFOA 5.465e+005



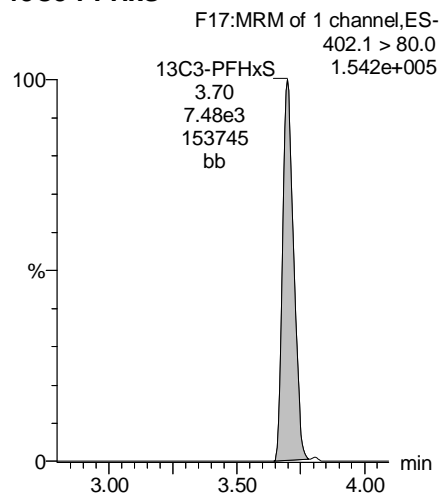
Dataset: U:\Q4.PRO\results\170926M1\170926M1-22.qld

Last Altered: Wednesday, September 27, 2017 13:31:50 Pacific Daylight Time

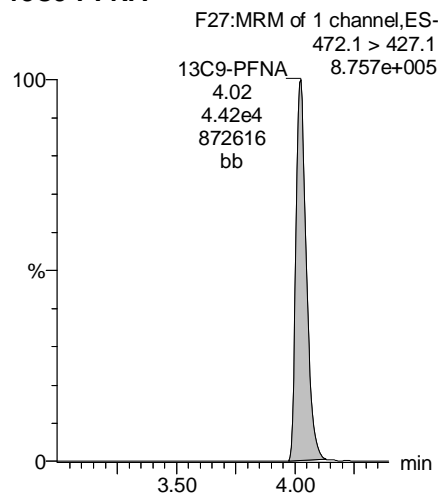
Printed: Wednesday, September 27, 2017 13:34:04 Pacific Daylight Time

Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

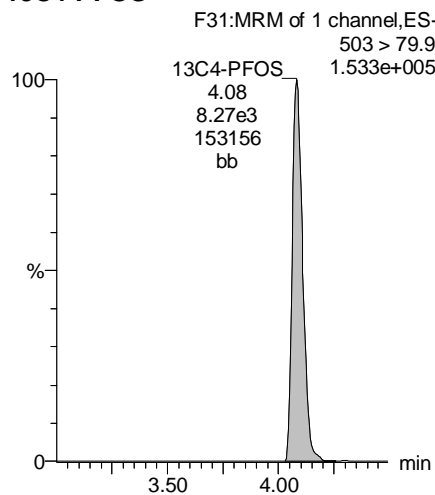
13C3-PFHxS



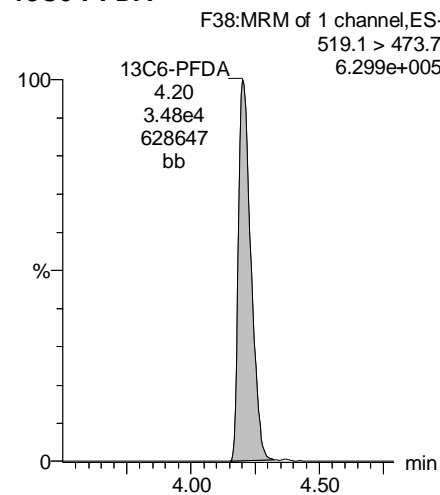
13C9-PFNA



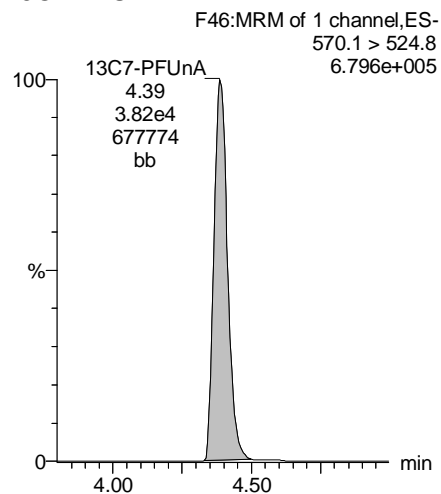
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-19.qld

Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:26:22 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.1 > 79.9	6.68e3	9.34e3	0.25000		3.17	3.16	8.94	34.2	85.5
2	4	PFHxA	313.2 > 268.9	3.46e4	1.14e4	0.25000		3.37	3.37	15.2	39.0	97.6
3	5	PFHpA	363.1 > 319.1	3.56e4	4.83e4	0.25000		3.63	3.63	9.22	36.0	90.0
4	6	L-PFHxS	399.0 > 80.0	6.59e3	3.72e3	0.25000		3.71	3.70	22.2	37.7	94.3
5	9	L-PFOA	413 > 368.7	2.60e4	3.35e4	0.25000		3.84	3.84	9.71	35.7	89.4
6	12	PFNA	463.1 > 419.1	3.00e4	3.52e4	0.25000		4.03	4.02	10.7	38.3	95.8
7	14	L-PFOS	499 > 79.9	6.79e3	8.03e3	0.25000		4.08	4.08	10.6	39.6	99.1
8	16	PFDA	513 > 468.8	2.45e4	2.31e4	0.25000		4.21	4.21	13.3	35.7	89.3
9	18	N-MeFOSAA	570.1 > 419	7.11e3	6.58e3	0.25000		4.24	4.24	176	30.8	77.1
10	19	N-EtFOSAA	584.2 > 419	6.14e3	6.88e3	0.25000		4.32	4.30	145	35.8	89.6
11	20	PFUnA	562.9 > 518.9	2.20e4	3.12e4	0.25000		4.39	4.39	8.81	35.3	88.2
12	22	PFDoA	613.0 > 569.1	2.89e4	2.98e4	0.25000		4.59	4.57	12.1	40.1	100.2

Dataset: U:\Q4.PRO\results\170926M1\170926M1-19.qld

Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:26:39 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTeDA	662.9 > 618.9	3.13e4	2.98e4	0.25000		4.78	4.77	13.1	33.5	83.8
2	25 PFTeDA	712.9 > 668.8	2.48e4	2.41e4	0.25000		4.99	4.98	12.9	36.9	92.3
3	31 13C3-PFBA	216.1 > 172.1	1.49e4	1.61e4	0.25000	0.890	1.88	1.88	11.5	51.9	103.9
4	32 13C3-PFPeA	266.1 > 222.1	3.24e4	3.54e4	0.25000	0.236	2.98	2.98	4.58	77.6	155.2
5	33 13C3-PFBS	302.1 > 79.9	9.34e3	3.54e4	0.25000	0.056	3.17	3.15	1.32	94.5	189.0
6	34 13C2-PFHxA	315 > 269.8	1.14e4	3.54e4	0.25000	0.283	3.37	3.37	1.61	22.8	113.9
7	35 13C4-PFHpA	367 > 322.1	4.83e4	3.54e4	0.25000	0.499	3.63	3.63	6.82	54.6	109.2
8	36 18O2-PFHxS	403 > 103.0	3.72e3	7.07e3	0.25000	0.482	3.71	3.70	6.58	54.5	109.0
9	37 13C2-6:2 FTS	429.1 > 408.9	5.92e3	2.99e4	0.25000	0.183	3.84	3.83	2.47	54.0	108.0
10	38 13C2-PFOA	414.9 > 369.7	3.35e4	2.99e4	0.25000	1.158	3.84	3.84	14.0	48.4	96.8
11	39 13C5-PFNA	468.1 > 423.1	3.52e4	4.09e4	0.25000	0.888	4.03	4.02	10.8	48.5	97.0
12	40 13C8-PFOA	506.1 > 78.0	3.18e3	3.61e4	0.25000	0.143	4.04	4.03	1.10	30.9	61.8
13	41 13C8-PFOS	507 > 79.9	8.03e3	8.33e3	0.25000	1.013	4.08	4.09	12.0	47.6	95.1
14	42 13C2-PFDA	515.1 > 469.9	2.31e4	2.96e4	0.25000	0.876	4.21	4.21	9.74	44.5	89.0
15	43 13C2-8:2 FTS	529.1 > 508.7	4.03e3	2.96e4	0.25000	0.148	4.21	4.20	1.70	46.0	92.0
16	44 d3-N-MeFOSAA	573.3 > 419	6.58e3	3.61e4	0.25000	0.017	4.24	4.24	2.28	535	82.3
17	45 d5-N-EtFOSAA	589.3 > 419	6.88e3	3.61e4	0.25000	0.019	4.32	4.30	2.38	512	78.8
18	46 13C2-PFUnA	565 > 519.8	3.12e4	3.61e4	0.25000	0.959	4.39	4.39	10.8	45.0	90.0
19	47 13C2-PFDoA	615.1 > 570.1	2.98e4	3.61e4	0.25000	1.003	4.59	4.58	10.3	41.2	82.4
20	49 13C2-PFTeDA	714.8 > 669.6	2.41e4	3.61e4	0.25000	0.716	4.99	4.98	8.33	46.5	93.0
21	54 13C4-PFBA	217.1 > 172.1	1.61e4	1.61e4	0.25000	1.000	1.88	1.88	12.5	50.0	100.0
22	55 13C5-PFHxA	318 > 272.9	3.54e4	3.54e4	0.25000	1.000	3.37	3.37	5.00	20.0	100.0
23	56 13C3-PFHxS	402.1 > 80.0	7.07e3	7.07e3	0.25000	1.000	3.71	3.71	12.5	50.0	100.0
24	57 13C8-PFOA	421.3 > 376	2.99e4	2.99e4	0.25000	1.000	3.84	3.84	12.5	50.0	100.0
25	58 13C9-PFNA	472.1 > 427.1	4.09e4	4.09e4	0.25000	1.000	4.03	4.02	12.5	50.0	100.0
26	59 13C4-PFOS	503 > 79.9	8.33e3	8.33e3	0.25000	1.000	4.08	4.09	12.5	50.0	100.0
27	60 13C6-PFDA	519.1 > 473.7	2.96e4	2.96e4	0.25000	1.000	4.21	4.21	12.5	50.0	100.0
28	61 13C7-PFUnA	570.1 > 524.8	3.61e4	3.61e4	0.25000	1.000	4.39	4.39	12.5	50.0	100.0
29	62 Total PFHxS	399.0 > 80.0	6.59e3	3.72e3	0.25000		3.71		22.2	37.7	
30	63 Total PFOA	413 > 368.7	2.60e4	3.35e4	0.25000		3.84		9.71	35.7	
31	64 Total PFOS	499 > 79.9	6.79e3	8.03e3	0.25000		4.08		10.6	39.6	
32	65 Total N-MeFOSAA	570.1 > 419	7.11e3	6.58e3	0.25000		4.24		176	30.8	

Dataset: U:\Q4.PRO\results\170926M1\170926M1-19.qld

Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:26:39 Pacific Daylight Time

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	6.14e3	6.88e3	0.25000		4.32		145	35.8	

Dataset: U:\Q4.PRO\results\170926M1\170926M1-19.qld

Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:26:22 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.70	6591.479	3717.920	22.161	MM	37.7
2	7 Br-PFHxS	399.0 > 80.0			3717.920		MM-I	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.84	26045.674	33525.012	9.711	bb	35.7

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.08	6794.011	8031.920	10.573	MM	39.6
2	15 Br-PFOS	499 > 79.9			8031.920		MM-I	

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	18 N-MeFOSAA	570.1 > 419	4.24	7112.616	6584.249	175.540	bb	30.8

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	19 N-EtFOSAA	584.2 > 419	4.30	6138.322	6877.524	145.034	bb	35.8

Dataset: U:\Q4.PRO\results\170926M1\170926M1-19.qld

Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

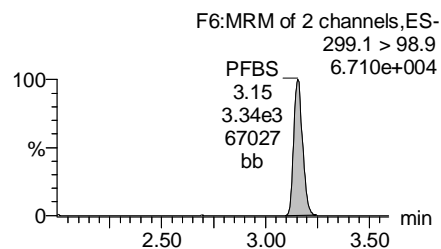
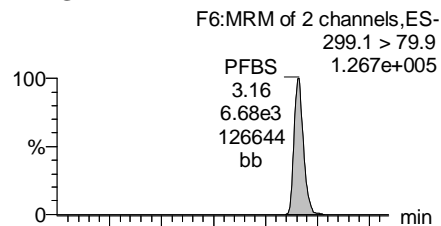
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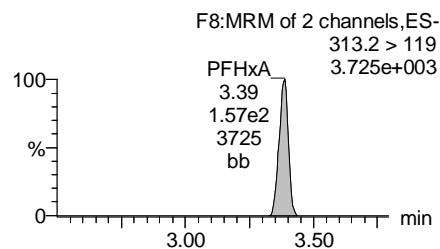
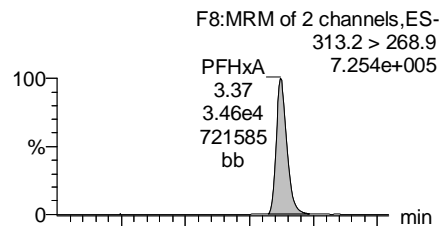
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Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

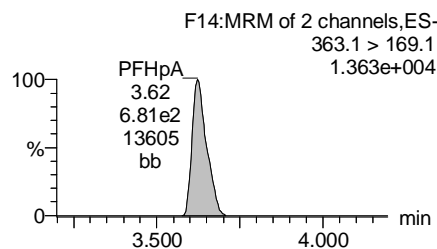
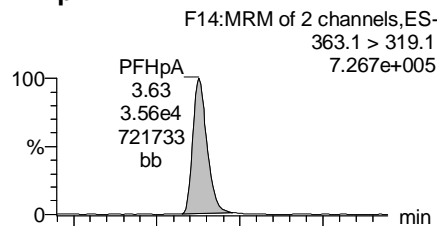
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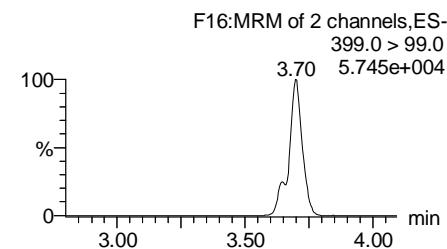
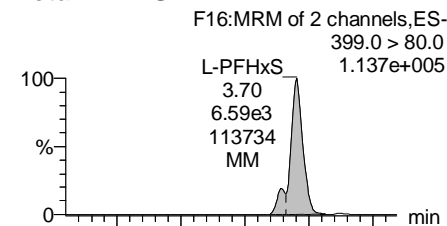
PFHxA



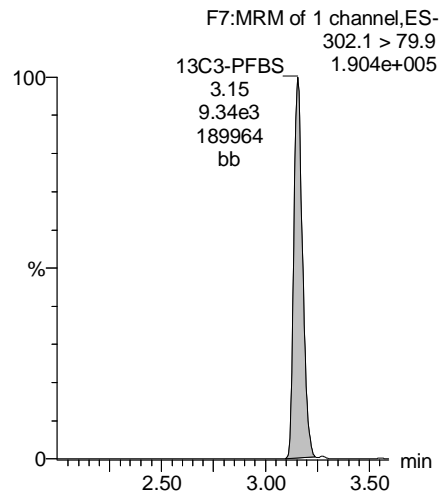
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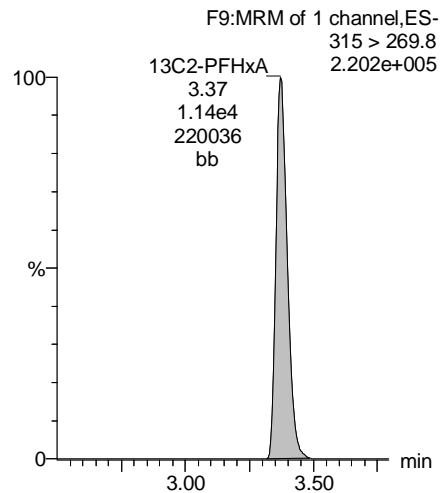
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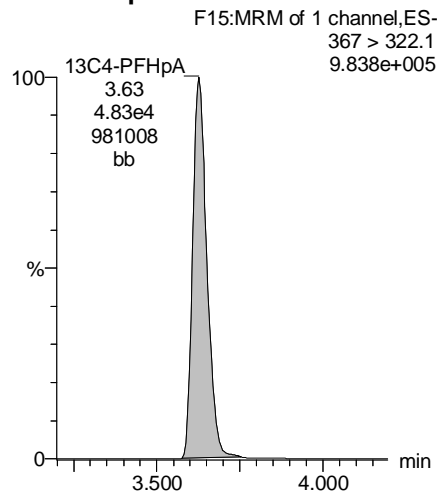
13C3-PFBS



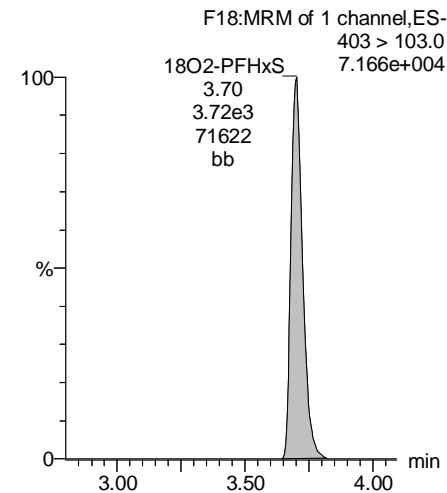
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



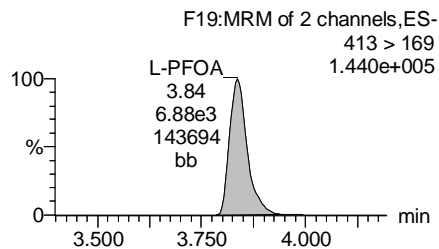
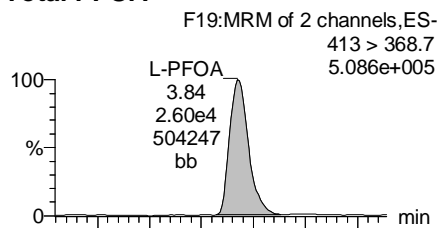
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Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

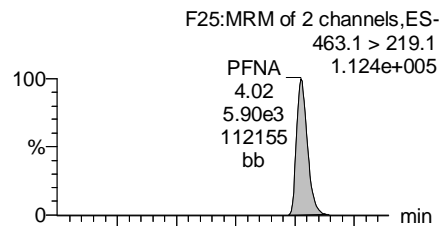
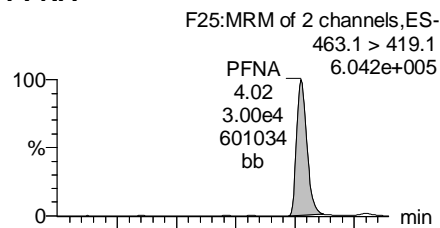
Printed: Wednesday, September 27, 2017 13:26:22 Pacific Daylight Time

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

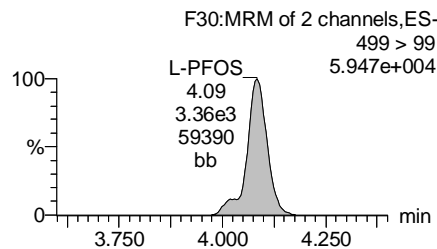
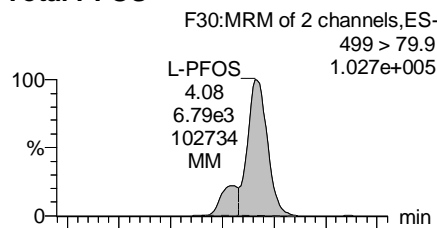
Total PFOA



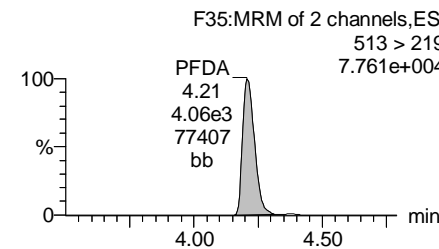
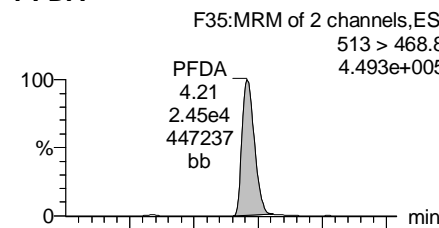
PFNA



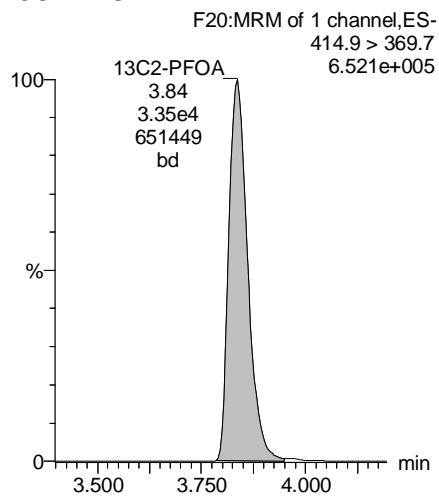
Total PFOS



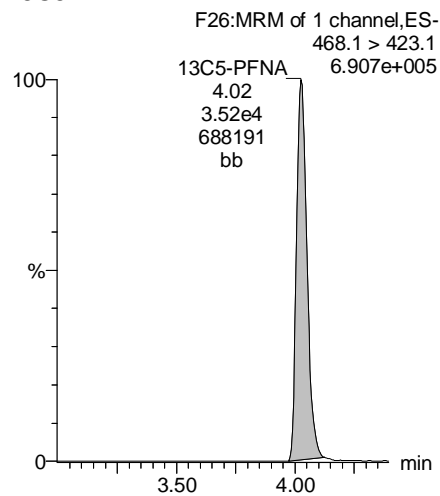
PFDA



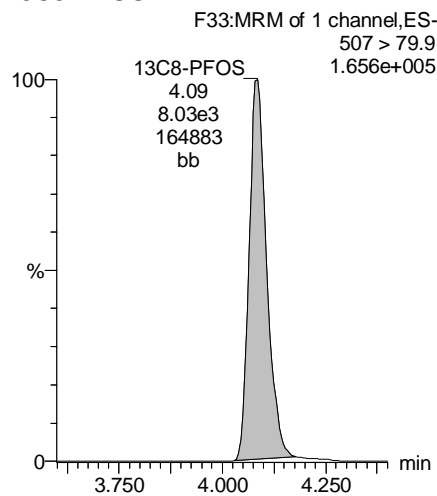
13C2-PFOA



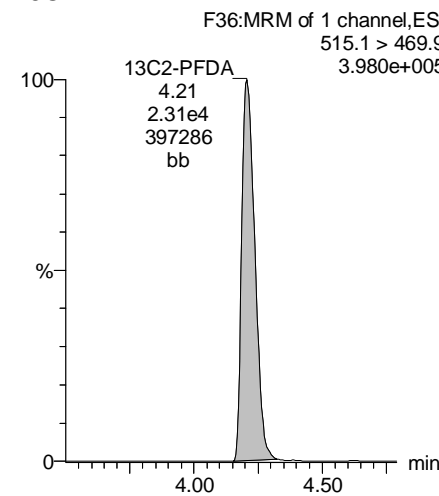
13C5-PFNA



13C8-PFOS



13C2-PFDA



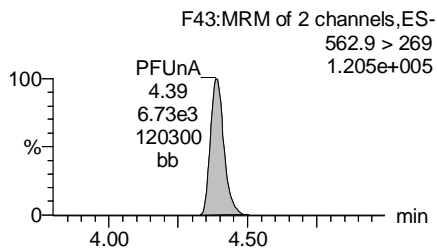
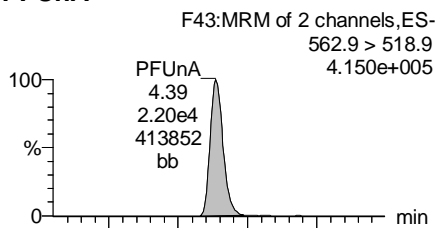
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Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

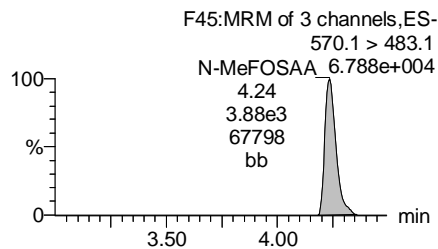
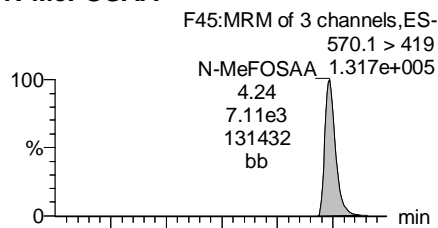
Printed: Wednesday, September 27, 2017 13:26:22 Pacific Daylight Time

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

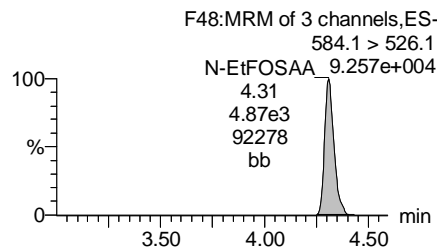
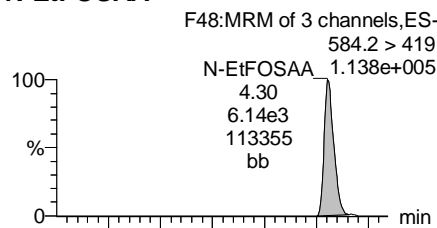
PFUnA



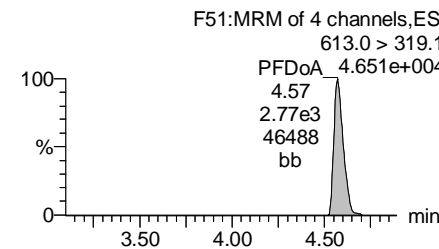
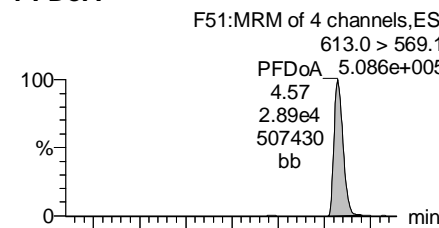
N-MeFOSAA



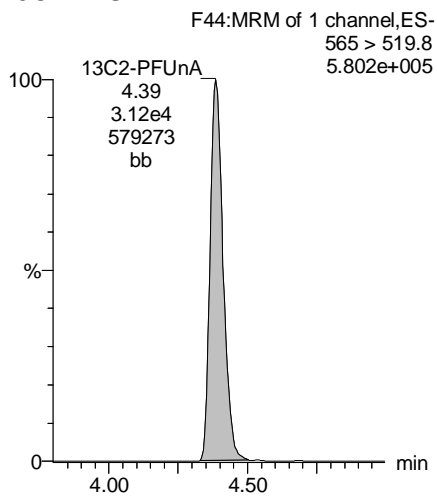
N-EtFOSAA



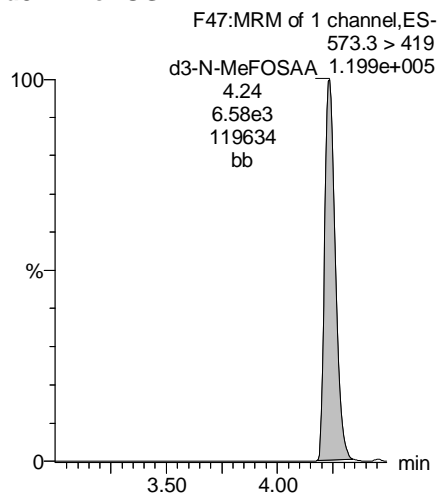
PFDoA



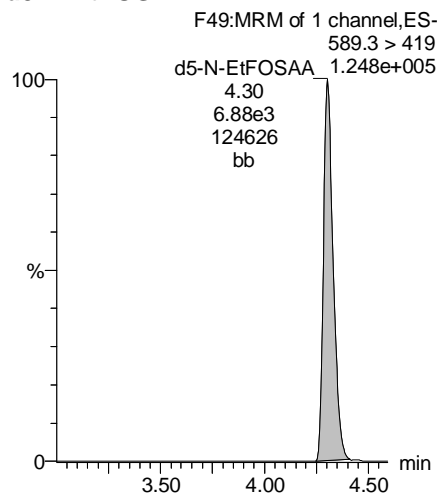
13C2-PFUnA



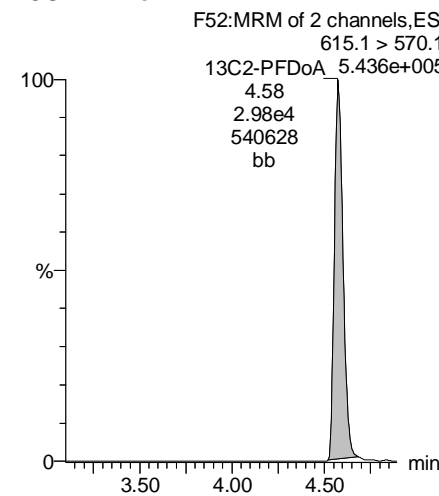
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-19.qld

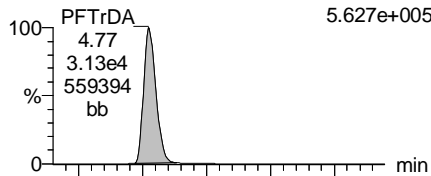
Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:26:22 Pacific Daylight Time

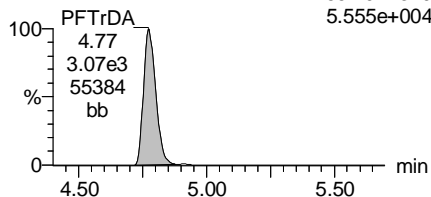
Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

PFTTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
5.627e+005

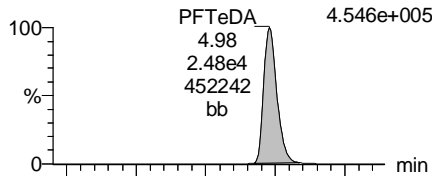


F57:MRM of 2 channels,ES-
662.9 > 319
5.555e+004

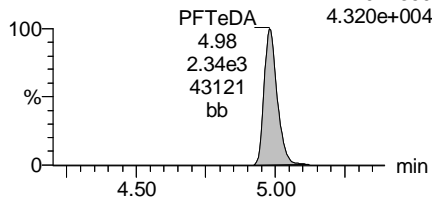


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
4.546e+005

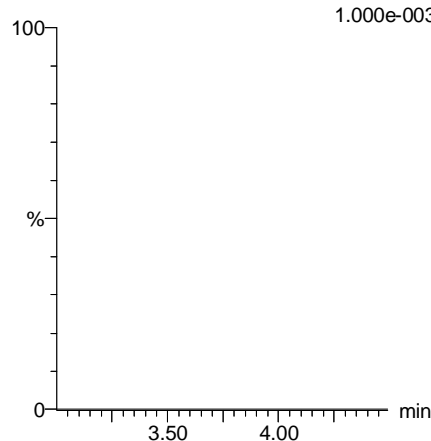


F58:MRM of 4 channels,ES-
712.9 > 369
4.320e+004



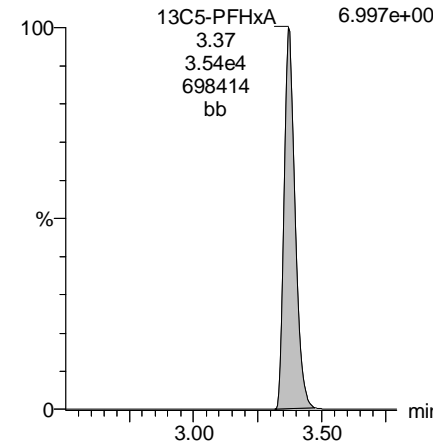
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
1.000e-003



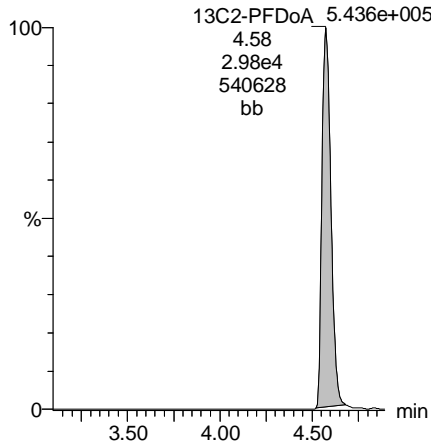
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
6.997e+005



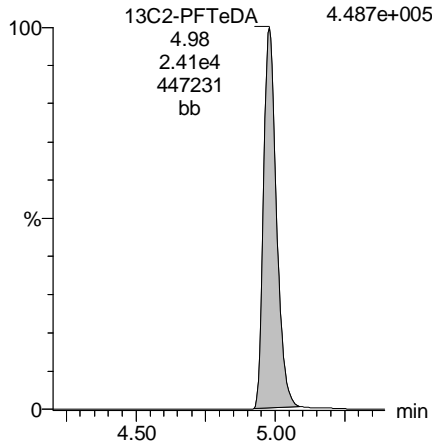
13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
5.436e+005



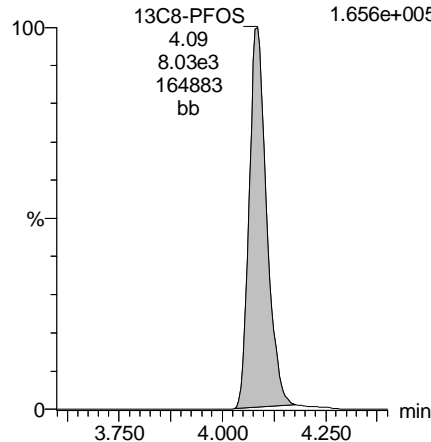
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
4.487e+005



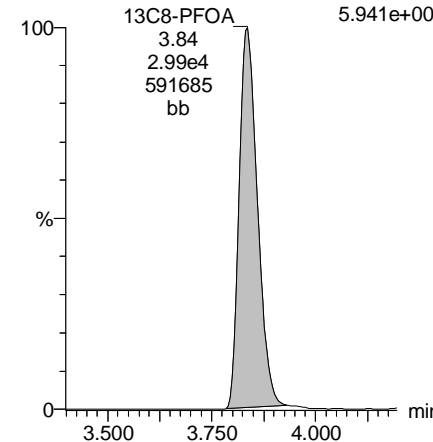
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.656e+005



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
5.941e+005



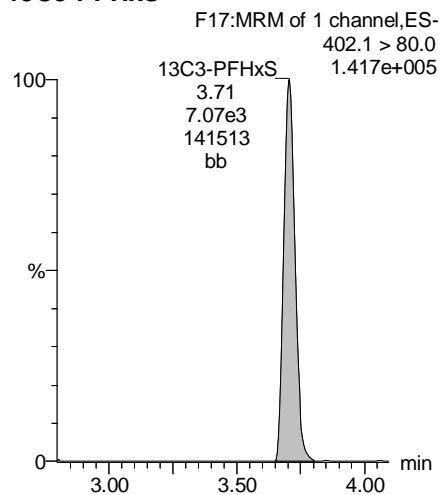
Dataset: U:\Q4.PRO\results\170926M1\170926M1-19.qld

Last Altered: Wednesday, September 27, 2017 13:24:55 Pacific Daylight Time

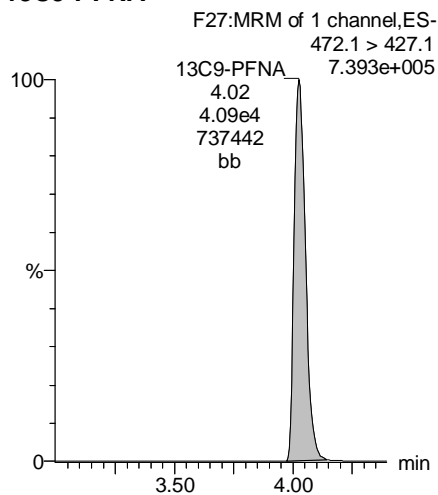
Printed: Wednesday, September 27, 2017 13:26:22 Pacific Daylight Time

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B7I0105-BS1 OPR 0.125, Description: OPR

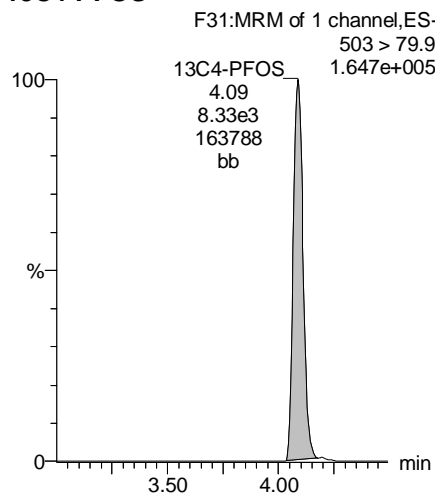
13C3-PFHxS



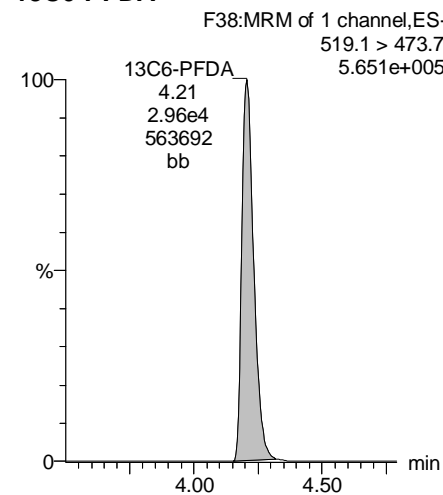
13C9-PFNA



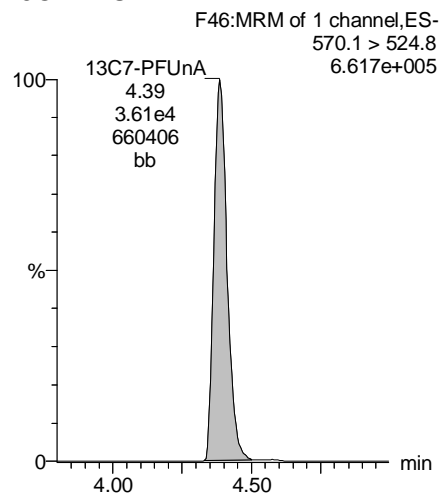
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:54:36 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.25e3	9.08e3	0.11698		3.17	3.14	1.73	14.3	
2	4 PFHxA	313.2 > 268.9	2.97e4	1.12e4	0.11698		3.37	3.37	13.3	72.9	
3	5 PFHpA	363.1 > 319.1	1.21e4	4.62e4	0.11698		3.63	3.62	3.27	27.1	
4	6 L-PFHxS	399.0 > 80.0	6.73e3	3.50e3	0.11698		3.71	3.69	24.0	87.3	
5	9 L-PFOA	413 > 368.7	4.74e3	3.30e4	0.11698		3.84	3.83	1.80	12.1	
6	12 PFNA	463.1 > 419.1	4.18e2	3.07e4	0.11698		4.03	4.01	0.170	0.181	
7	14 L-PFOS	499 > 79.9	1.67e4	9.07e3	0.11698		4.08	4.07	23.0	184	
8	16 PFDA	513 > 468.8		2.57e4	0.11698		4.21				
9	18 N-MeFOSAA	570.1 > 419		6.60e3	0.11698		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.44e3	0.11698		4.32				
11	20 PFUnA	562.9 > 518.9		3.37e4	0.11698		4.39				
12	22 PFDoA	613.0 > 569.1		2.85e4	0.11698		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:54:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	2.85e4	0.11698		4.78					
2	25	PFTeDA	712.9 > 668.8	2.41e4	0.11698		4.99					
3	31	13C3-PFBA	216.1 > 172.1	1.96e4	2.20e4	0.11698	0.890	1.88	1.88	11.1	107	100.2
4	32	13C3-PFPeA	266.1 > 222.1	3.22e4	3.80e4	0.11698	0.236	2.98	2.96	4.24	153	143.6
5	33	13C3-PFBS	302.1 > 79.9	9.08e3	3.80e4	0.11698	0.056	3.17	3.14	1.20	183	171.2
6	34	13C2-PFHxA	315 > 269.8	1.12e4	3.80e4	0.11698	0.283	3.37	3.37	1.47	44.4	104.0
7	35	13C4-PFHpA	367 > 322.1	4.62e4	3.80e4	0.11698	0.499	3.63	3.62	6.09	104	97.5
8	36	18O2-PFHxS	403 > 103.0	3.50e3	7.63e3	0.11698	0.482	3.71	3.69	5.74	102	95.1
9	37	13C2-6:2 FTS	429.1 > 408.9	6.13e3	2.68e4	0.11698	0.183	3.84	3.82	2.86	133	124.8
10	38	13C2-PFOA	414.9 > 369.7	3.30e4	2.68e4	0.11698	1.158	3.84	3.83	15.4	114	106.3
11	39	13C5-PFNA	468.1 > 423.1	3.07e4	3.48e4	0.11698	0.888	4.03	4.01	11.0	106	99.4
12	40	13C8-PFOSA	506.1 > 78.0	3.36e3	3.62e4	0.11698	0.143	4.04	4.02	1.16	69.6	65.1
13	41	13C8-PFOS	507 > 79.9	9.07e3	9.27e3	0.11698	1.013	4.08	4.08	12.2	103	96.7
14	42	13C2-PFDA	515.1 > 469.9	2.57e4	3.31e4	0.11698	0.876	4.21	4.20	9.70	94.7	88.6
15	43	13C2-8:2 FTS	529.1 > 508.7	4.41e3	3.31e4	0.11698	0.148	4.21	4.20	1.66	96.3	90.2
16	44	d3-N-MeFOSAA	573.3 > 419	6.60e3	3.62e4	0.11698	0.017	4.24	4.22	2.28	1140	82.4
17	45	d5-N-EtFOSAA	589.3 > 419	7.44e3	3.62e4	0.11698	0.019	4.32	4.30	2.57	1180	85.1
18	46	13C2-PFUnA	565 > 519.8	3.37e4	3.62e4	0.11698	0.959	4.39	4.37	11.7	104	97.3
19	47	13C2-PFDoA	615.1 > 570.1	2.85e4	3.62e4	0.11698	1.003	4.59	4.57	9.85	84.0	78.6
20	49	13C2-PFTeDA	714.8 > 669.6	2.41e4	3.62e4	0.11698	0.716	4.99	4.97	8.33	99.4	93.0
21	54	13C4-PFBA	217.1 > 172.1	2.20e4	2.20e4	0.11698	1.000	1.88	1.89	12.5	107	100.0
22	55	13C5-PFHxA	318 > 272.9	3.80e4	3.80e4	0.11698	1.000	3.37	3.37	5.00	42.7	100.0
23	56	13C3-PFHxS	402.1 > 80.0	7.63e3	7.63e3	0.11698	1.000	3.71	3.69	12.5	107	100.0
24	57	13C8-PFOA	421.3 > 376	2.68e4	2.68e4	0.11698	1.000	3.84	3.83	12.5	107	100.0
25	58	13C9-PFNA	472.1 > 427.1	3.48e4	3.48e4	0.11698	1.000	4.03	4.02	12.5	107	100.0
26	59	13C4-PFOS	503 > 79.9	9.27e3	9.27e3	0.11698	1.000	4.08	4.08	12.5	107	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.31e4	3.31e4	0.11698	1.000	4.21	4.20	12.5	107	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.62e4	3.62e4	0.11698	1.000	4.39	4.38	12.5	107	100.0
29	62	Total PFHxS	399.0 > 80.0	6.73e3	3.50e3	0.11698		3.71		24.0	87.3	
30	63	Total PFOA	413 > 368.7	4.74e3	3.30e4	0.11698		3.84		1.80	12.1	
31	64	Total PFOS	499 > 79.9	1.67e4	9.07e3	0.11698		4.08		23.0	184	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.60e3	0.11698		4.24		0.000		

AC 9/27/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:54:50 Pacific Daylight Time

Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.44e3	0.11698		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:54:36 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	6727.761	3503.431	24.004	MM	87.3
2	7 Br-PFHxS	399.0 > 80.0			3503.431		MM-I	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	4744.960	33019.836	1.796	MM	12.1

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.07	16665.555	9074.445	22.957	MM	184.3
2	15 Br-PFOS	499 > 79.9			9074.445		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

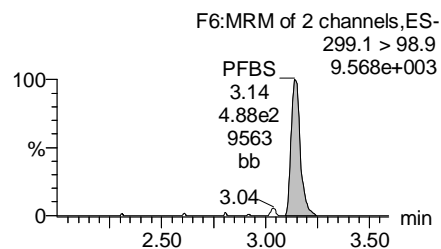
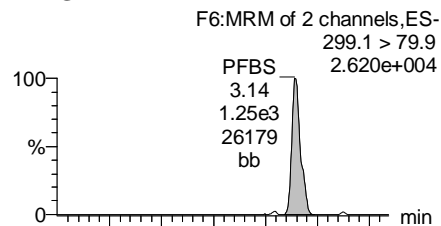
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

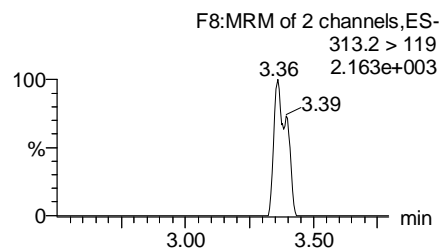
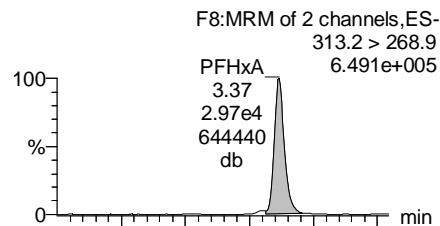
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Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

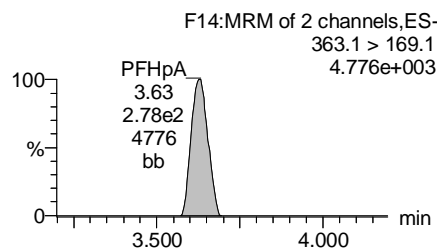
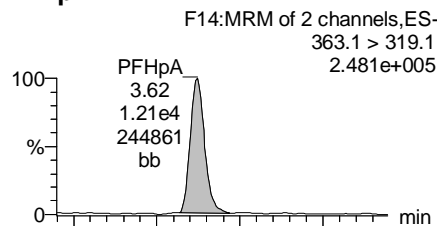
PFBS



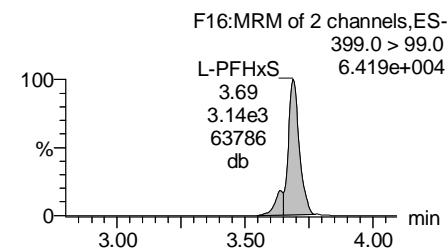
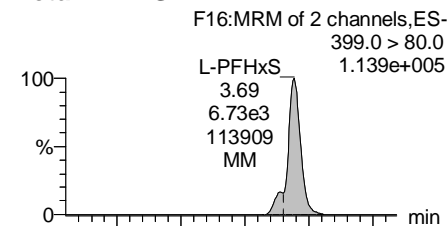
PFHxA



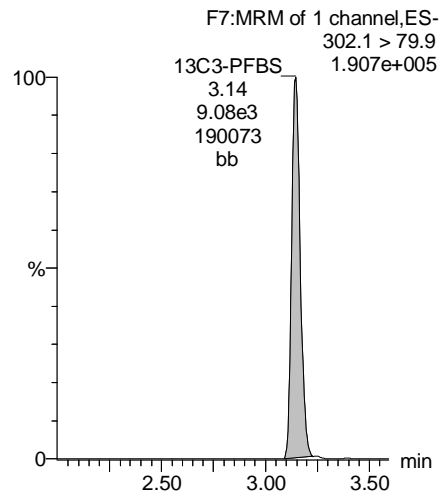
PFHpA



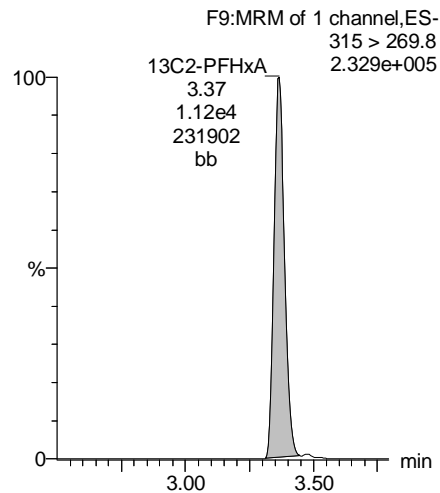
Total PFHxS



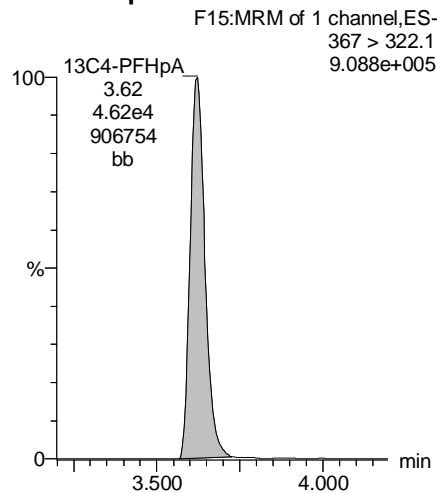
13C3-PFBS



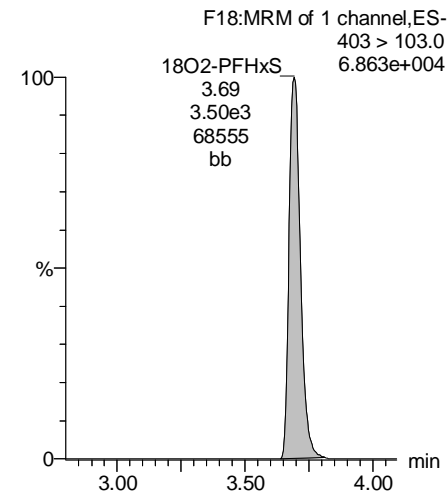
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



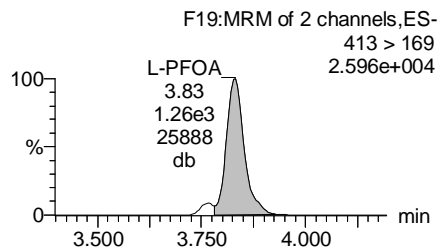
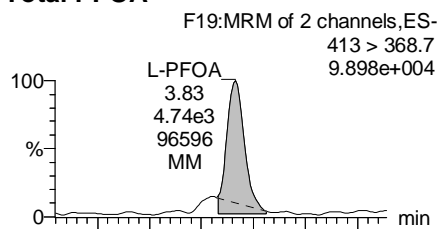
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Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

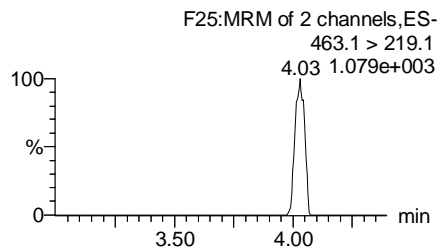
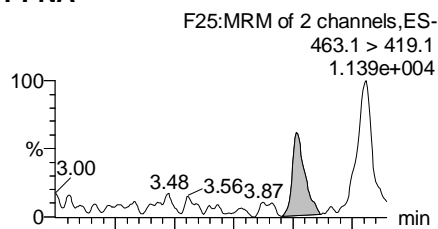
Printed: Wednesday, September 27, 2017 14:54:36 Pacific Daylight Time

Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

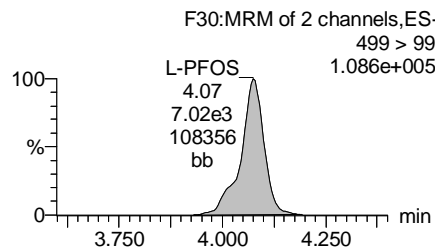
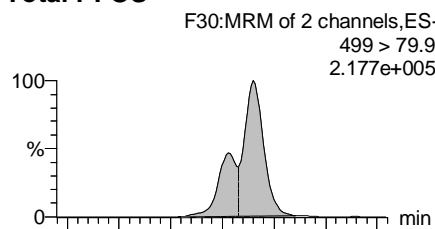
Total PFOA



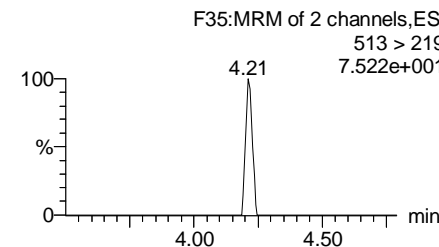
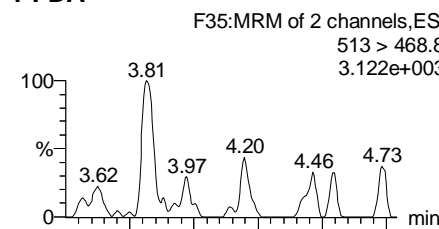
PFNA



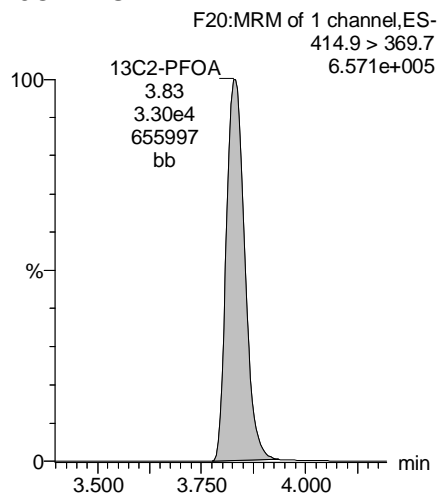
Total PFOS



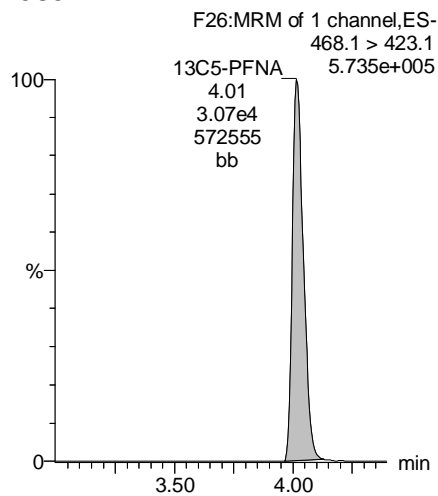
PFDA



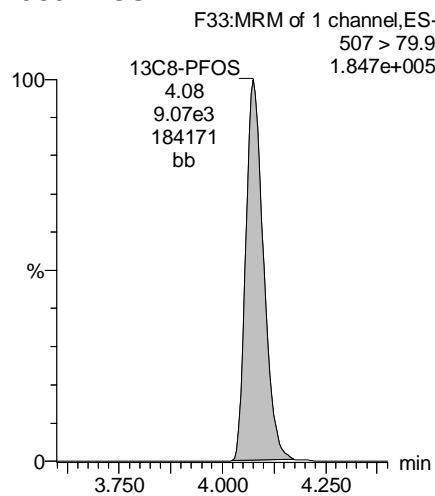
13C2-PFOA



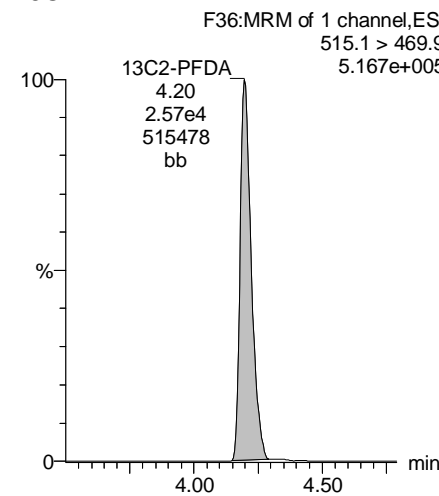
13C5-PFNA



13C8-PFOS



13C2-PFDA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

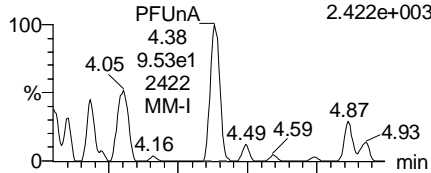
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Printed: Wednesday, September 27, 2017 14:54:36 Pacific Daylight Time

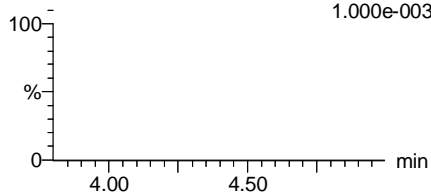
Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
2.422e+003

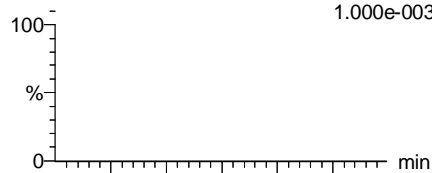


F43:MRM of 2 channels,ES-
562.9 > 269
1.000e-003

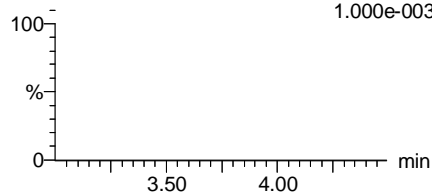


N-MeFOSAA

F45:MRM of 3 channels,ES-
570.1 > 419
1.000e-003

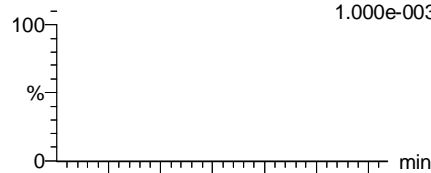


F45:MRM of 3 channels,ES-
570.1 > 483.1
1.000e-003

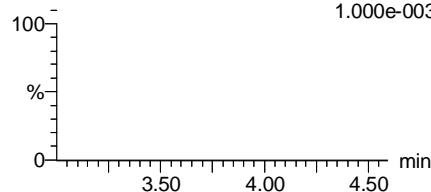


N-EtFOSAA

F48:MRM of 3 channels,ES-
584.2 > 419
1.000e-003

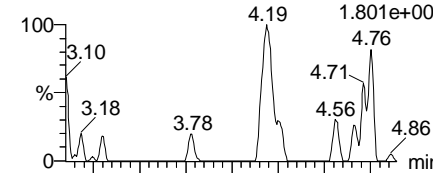


F48:MRM of 3 channels,ES-
584.1 > 526.1
1.000e-003

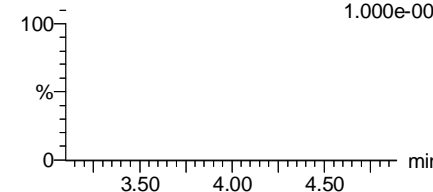


PFDoA

F51:MRM of 4 channels,ES-
613.0 > 569.1
1.801e+003

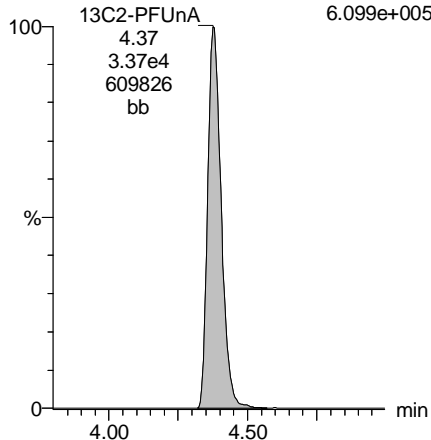


F51:MRM of 4 channels,ES-
613.0 > 319.1
1.000e-003



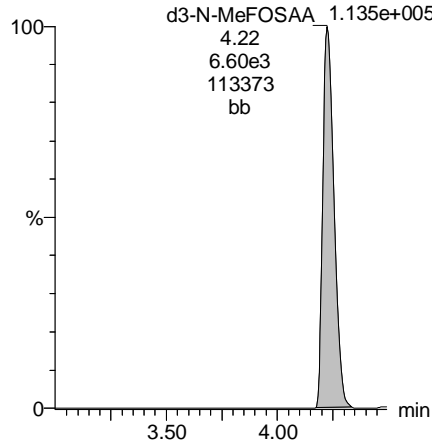
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
6.099e+005



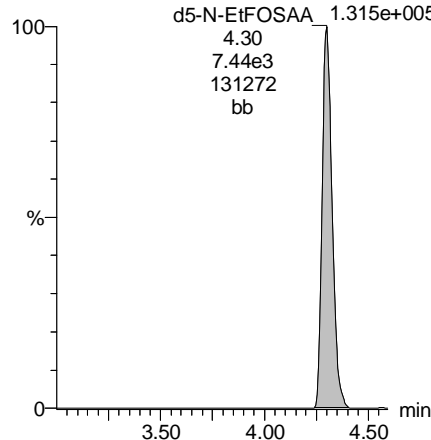
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
1.135e+005



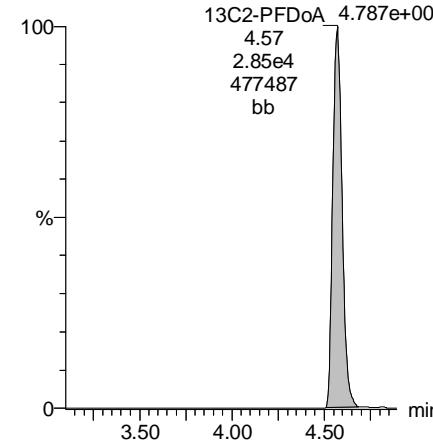
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
1.315e+005



13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
4.787e+005



Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

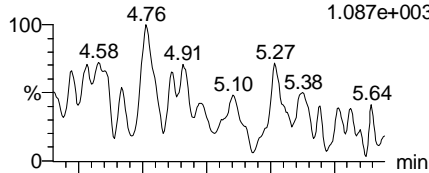
Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:54:36 Pacific Daylight Time

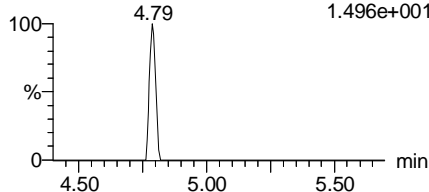
Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

PFTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
1.087e+003

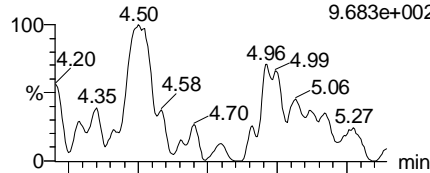


F57:MRM of 2 channels,ES-
662.9 > 319
1.496e+001

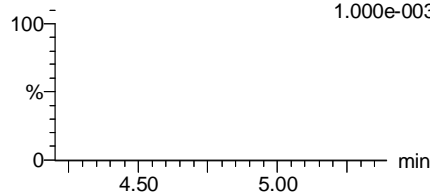


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
9.683e+002

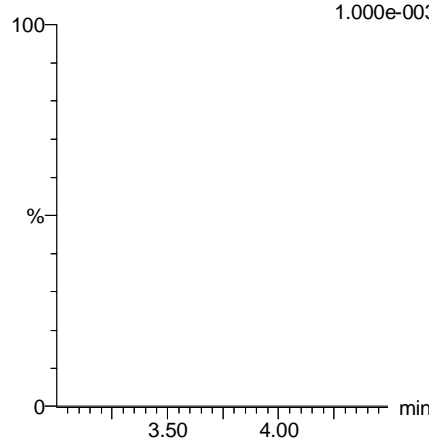


F58:MRM of 4 channels,ES-
712.9 > 369
1.000e-003



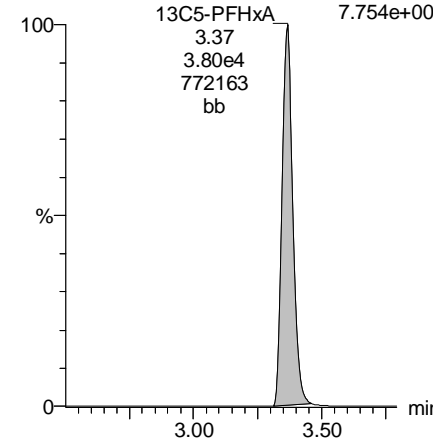
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
1.000e-003



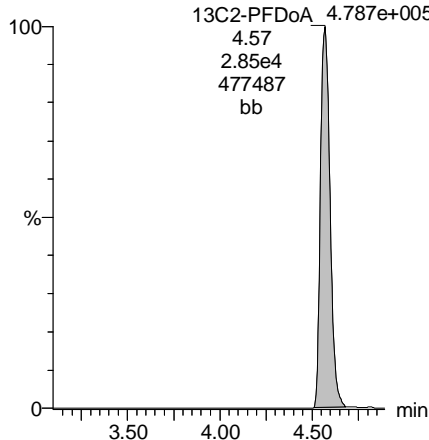
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
7.754e+005



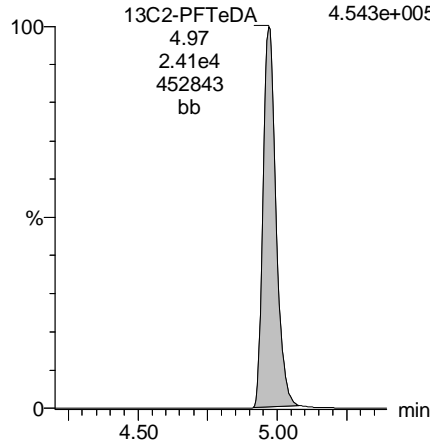
13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
13C2-PFDoA 4.787e+005



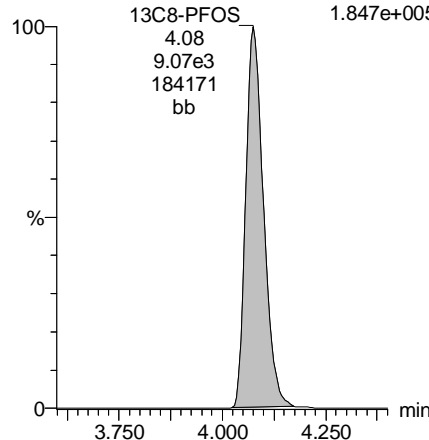
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
13C2-PFTeDA 4.543e+005



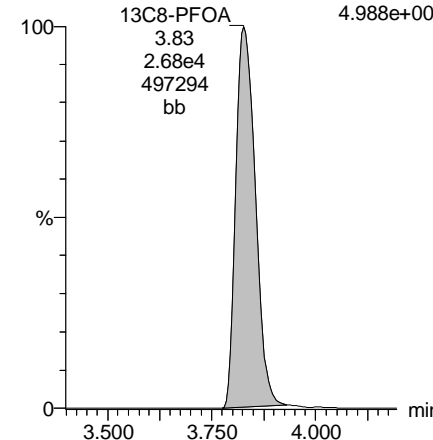
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
13C8-PFOS 1.847e+005



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
13C8-PFOA 4.988e+005



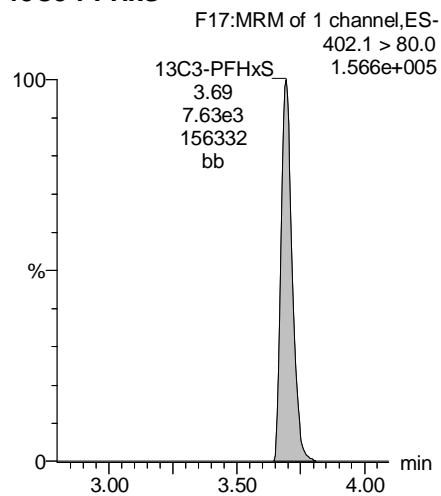
Dataset: U:\Q4.PRO\results\170926M1\170926M1-32.qld

Last Altered: Wednesday, September 27, 2017 14:54:06 Pacific Daylight Time

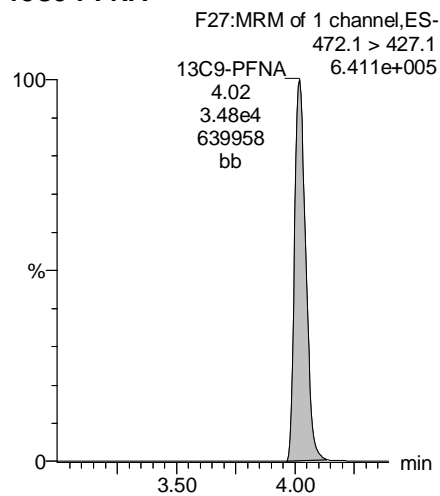
Printed: Wednesday, September 27, 2017 14:54:36 Pacific Daylight Time

Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

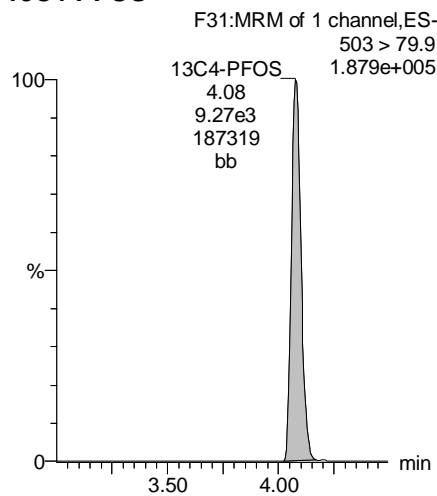
13C3-PFHxS



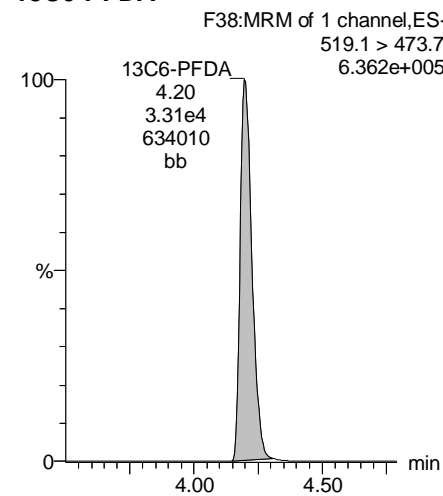
13C9-PFNA



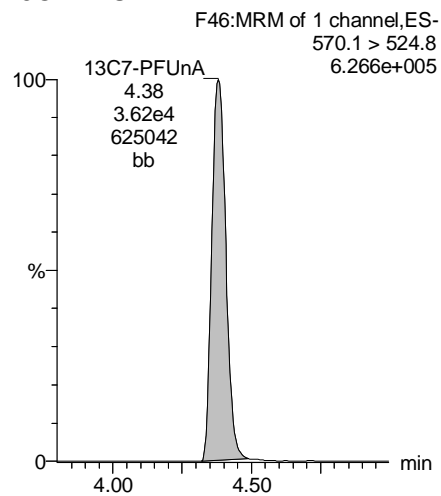
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:46:09 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	8.54e3	8.89e3	0.11632		3.17	3.15	12.0	98.7	
2	4 PFHxA	313.2 > 268.9	6.01e4	1.12e4	0.11632		3.37	3.37	26.7	149	
3	5 PFHpA	363.1 > 319.1	4.63e4	4.62e4	0.11632		3.63	3.63	12.5	105	
4	6 L-PFHxS	399.0 > 80.0	1.25e4	3.26e3	0.11632		3.71	3.70	47.7	175	
5	9 L-PFOA	413 > 368.7	3.14e4	3.32e4	0.11632		3.84	3.83	11.8	94.0	
6	12 PFNA	463.1 > 419.1	2.68e4	3.07e4	0.11632		4.03	4.03	10.9	84.3	
7	14 L-PFOS	499 > 79.9	2.51e4	7.23e3	0.11632		4.08	4.09	43.4	350	
8	16 PFDA	513 > 468.8	2.90e4	2.63e4	0.11632		4.21	4.20	13.8	80.0	
9	18 N-MeFOSAA	570.1 > 419	9.13e3	7.03e3	0.11632		4.24	4.24	211	79.7	
10	19 N-EtFOSAA	584.2 > 419	6.78e3	7.89e3	0.11632		4.32	4.30	140	74.2	
11	20 PFUnA	562.9 > 518.9	2.26e4	2.67e4	0.11632		4.39	4.39	10.6	91.1	
12	22 PFDoA	613.0 > 569.1	2.49e4	3.26e4	0.11632		4.59	4.58	9.54	67.7	

Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:46:24 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTeDA	662.9 > 618.9	3.58e4	3.26e4	0.11632		4.78	4.77	13.7	75.5	
2	25	PFTeDA	712.9 > 668.8	2.49e4	2.53e4	0.11632		4.99	4.98	12.3	76.1	
3	31	13C3-PFBA	216.1 > 172.1	1.50e4	1.47e4	0.11632	0.890	1.88	1.86	12.8	115.0	
4	32	13C3-PFPeA	266.1 > 222.1	3.15e4	3.85e4	0.11632	0.236	2.98	2.98	4.10	149	138.8
5	33	13C3-PFBS	302.1 > 79.9	8.89e3	3.85e4	0.11632	0.056	3.17	3.15	1.16	178	165.4
6	34	13C2-PFHxA	315 > 269.8	1.12e4	3.85e4	0.11632	0.283	3.37	3.37	1.46	44.3	103.1
7	35	13C4-PFHpA	367 > 322.1	4.62e4	3.85e4	0.11632	0.499	3.63	3.63	6.00	103	96.2
8	36	18O2-PFHxS	403 > 103.0	3.26e3	6.93e3	0.11632	0.482	3.71	3.70	5.89	105	97.6
9	37	13C2-6:2 FTS	429.1 > 408.9	5.89e3	3.12e4	0.11632	0.183	3.84	3.83	2.36	111	103.2
10	38	13C2-PFOA	414.9 > 369.7	3.32e4	3.12e4	0.11632	1.158	3.84	3.83	13.3	98.9	92.1
11	39	13C5-PFNA	468.1 > 423.1	3.07e4	3.74e4	0.11632	0.888	4.03	4.03	10.3	99.5	92.6
12	40	13C8-PFOSA	506.1 > 78.0	3.47e3	3.72e4	0.11632	0.143	4.04	4.03	1.17	70.3	65.4
13	41	13C8-PFOS	507 > 79.9	7.23e3	7.80e3	0.11632	1.013	4.08	4.08	11.6	98.4	91.5
14	42	13C2-PFDA	515.1 > 469.9	2.63e4	3.23e4	0.11632	0.876	4.21	4.20	10.2	99.8	92.9
15	43	13C2-8:2 FTS	529.1 > 508.7	4.69e3	3.23e4	0.11632	0.148	4.21	4.20	1.82	106	98.4
16	44	d3-N-MeFOSAA	573.3 > 419	7.03e3	3.72e4	0.11632	0.017	4.24	4.23	2.36	1190	85.3
17	45	d5-N-EtFOSAA	589.3 > 419	7.89e3	3.72e4	0.11632	0.019	4.32	4.30	2.65	1230	87.8
18	46	13C2-PFUnA	565 > 519.8	2.67e4	3.72e4	0.11632	0.959	4.39	4.39	8.96	80.3	74.8
19	47	13C2-PFDoA	615.1 > 570.1	3.26e4	3.72e4	0.11632	1.003	4.59	4.57	11.0	94.0	87.4
20	49	13C2-PFTeDA	714.8 > 669.6	2.53e4	3.72e4	0.11632	0.716	4.99	4.98	8.49	102	94.8
21	54	13C4-PFBA	217.1 > 172.1	1.47e4	1.47e4	0.11632	1.000	1.88	1.86	12.5	107	100.0
22	55	13C5-PFHxA	318 > 272.9	3.85e4	3.85e4	0.11632	1.000	3.37	3.37	5.00	43.0	100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.93e3	6.93e3	0.11632	1.000	3.71	3.70	12.5	107	100.0
24	57	13C8-PFOA	421.3 > 376	3.12e4	3.12e4	0.11632	1.000	3.84	3.83	12.5	107	100.0
25	58	13C9-PFNA	472.1 > 427.1	3.74e4	3.74e4	0.11632	1.000	4.03	4.02	12.5	107	100.0
26	59	13C4-PFOS	503 > 79.9	7.80e3	7.80e3	0.11632	1.000	4.08	4.08	12.5	107	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.23e4	3.23e4	0.11632	1.000	4.21	4.21	12.5	107	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.72e4	3.72e4	0.11632	1.000	4.39	4.38	12.5	107	100.0
29	62	Total PFHxS	399.0 > 80.0	1.25e4	3.26e3	0.11632		3.71		47.7	175	
30	63	Total PFOA	413 > 368.7	3.14e4	3.32e4	0.11632		3.84		11.8	94.0	
31	64	Total PFOS	499 > 79.9	2.51e4	7.23e3	0.11632		4.08		43.4	350	
32	65	Total N-MeFOSAA	570.1 > 419	9.13e3	7.03e3	0.11632		4.24		211	79.7	

AC 9/27/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:46:24 Pacific Daylight Time

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	6.78e3	7.89e3	0.11632		4.32		140	74.2	

Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:46:09 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.70	12451.364	3261.993	47.714	MM	174.8
2	7 Br-PFHxS	399.0 > 80.0			3261.993		MM-I	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	31415.770	33235.109	11.816	db	94.0
2	10 Br-PFOA	413 > 368.7			33235.109		MM-I	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.09	25109.395	7234.663	43.384	MM	349.6
2	15 Br-PFOS	499 > 79.9			7234.663		MM-I	

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	18 N-MeFOSAA	570.1 > 419	4.24	9134.161	7033.326	211.038	bb	79.7

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	19 N-EtFOSAA	584.2 > 419	4.30	6784.092	7891.856	139.690	bb	74.2

Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

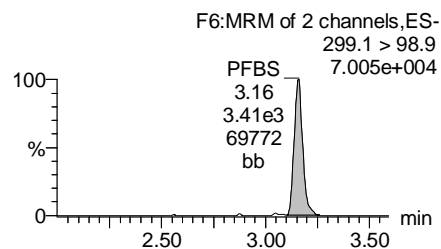
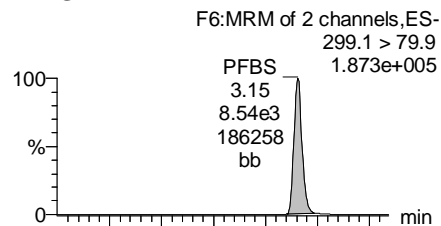
Printed: Wednesday, September 27, 2017 14:46:09 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

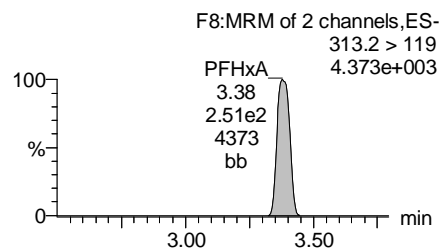
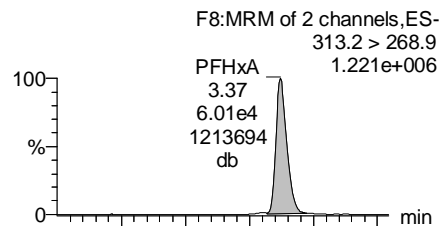
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

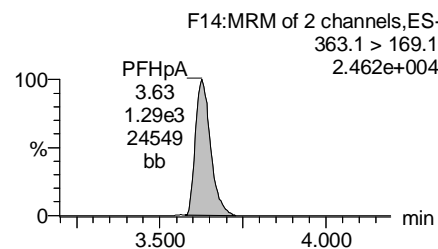
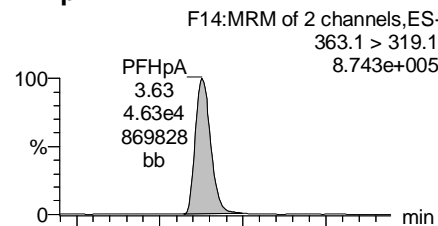
PFBS



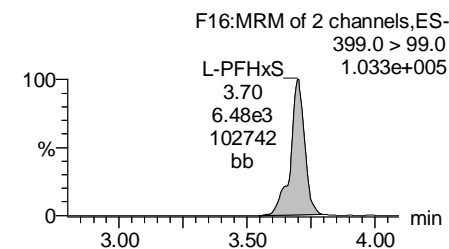
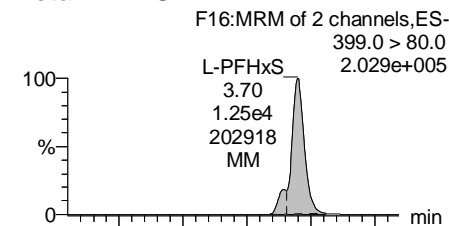
PFHxA



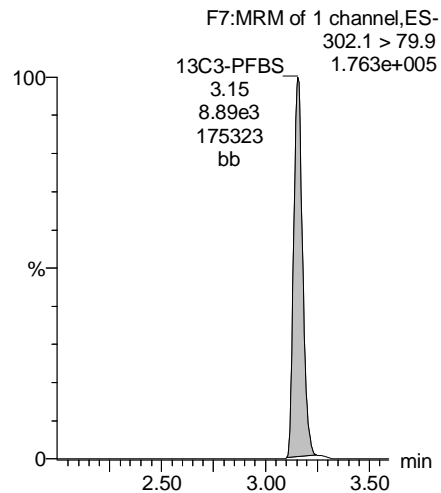
PFHpA



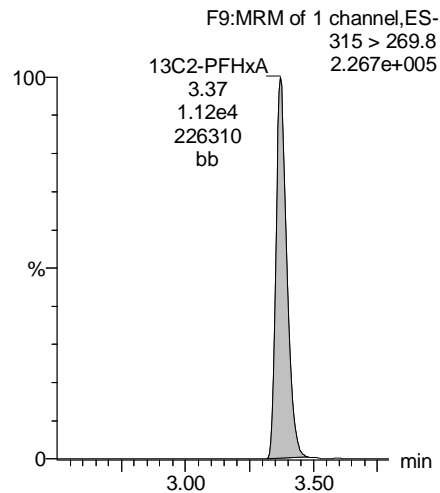
Total PFHxS



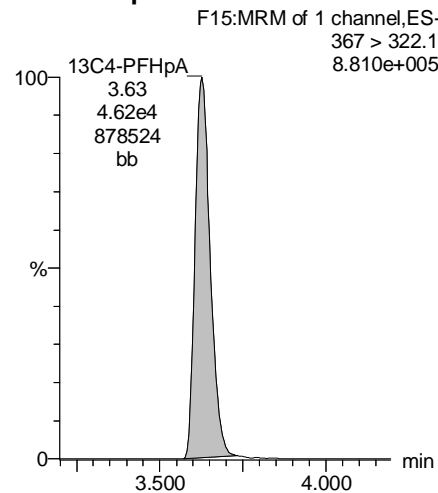
13C3-PFBS



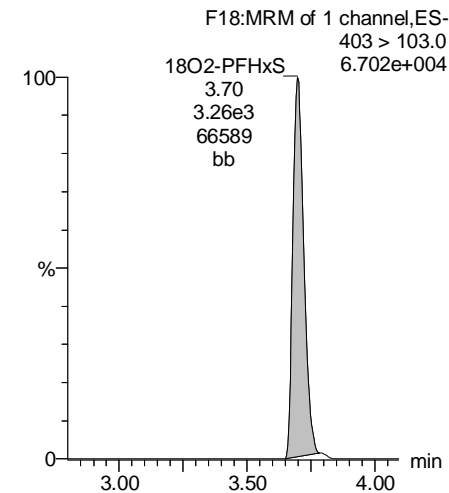
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



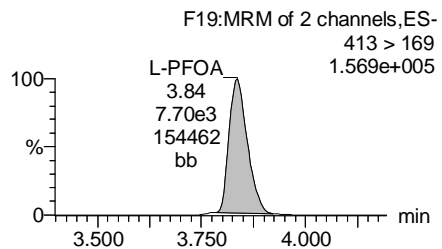
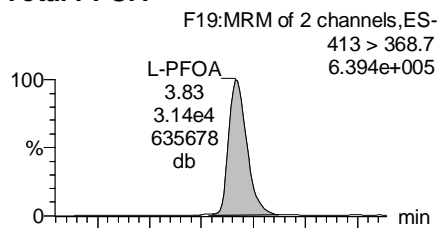
Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

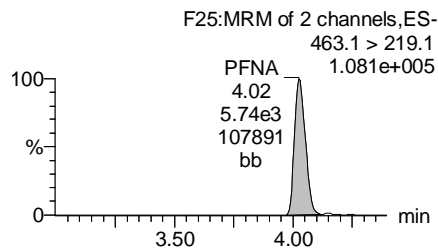
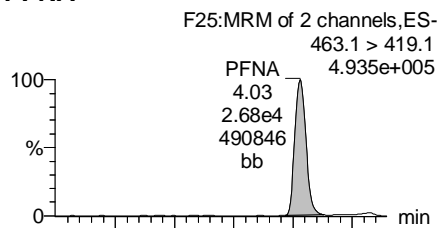
Printed: Wednesday, September 27, 2017 14:46:09 Pacific Daylight Time

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

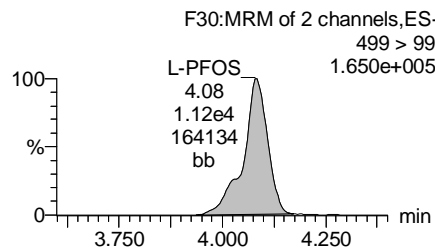
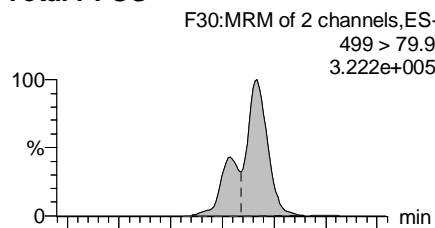
Total PFOA



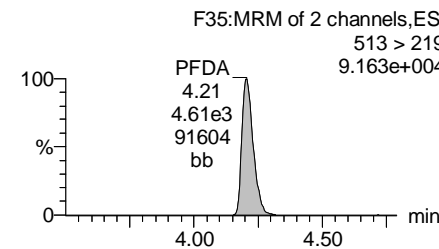
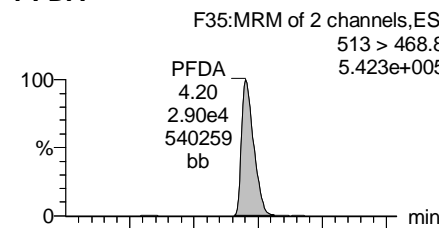
PFNA



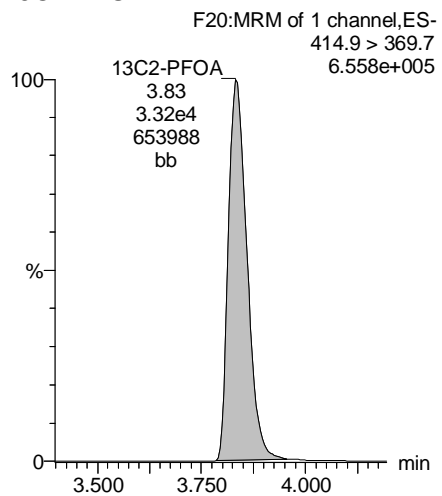
Total PFOS



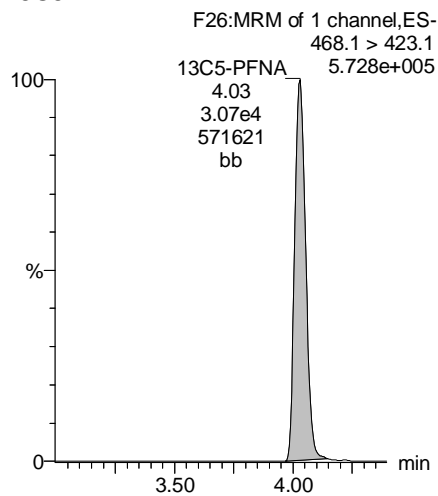
PFDA



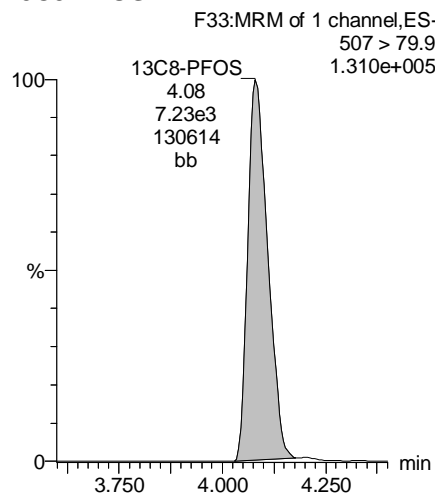
13C2-PFOA



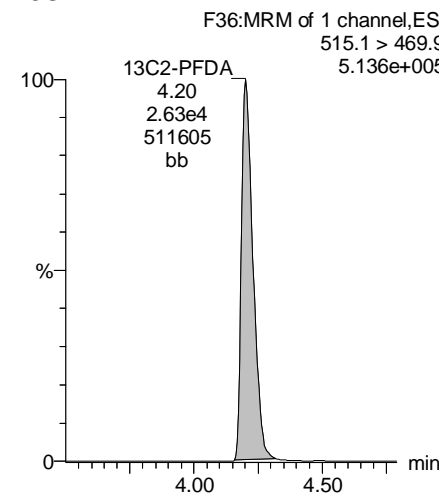
13C5-PFNA



13C8-PFOS



13C2-PFDA



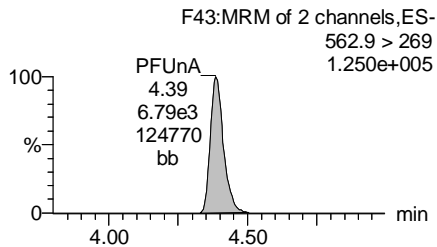
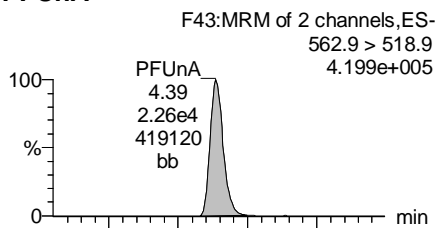
Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

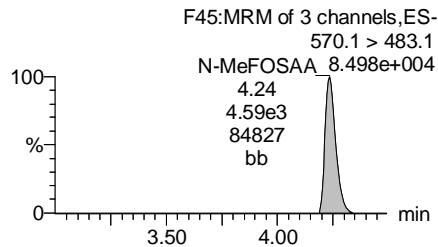
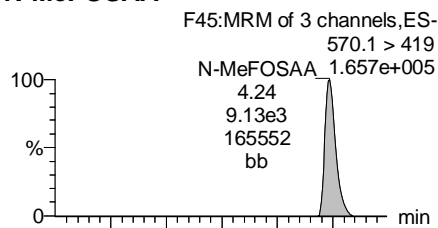
Printed: Wednesday, September 27, 2017 14:46:09 Pacific Daylight Time

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

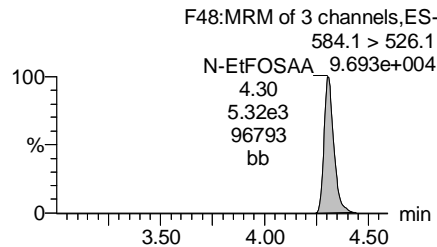
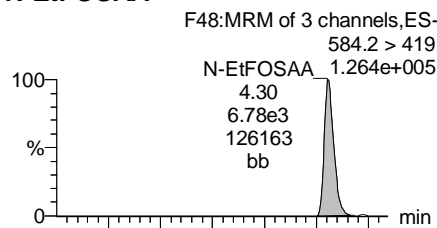
PFUnA



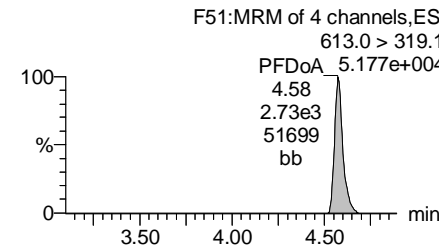
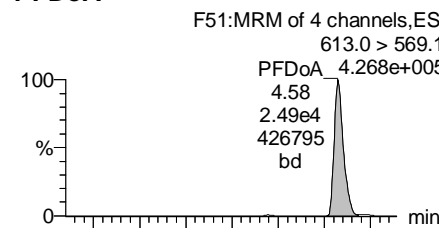
N-MeFOSAA



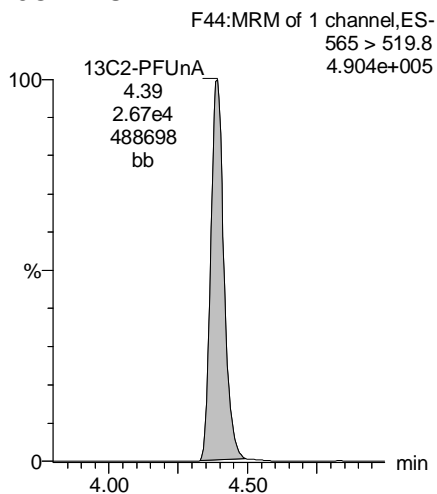
N-EtFOSAA



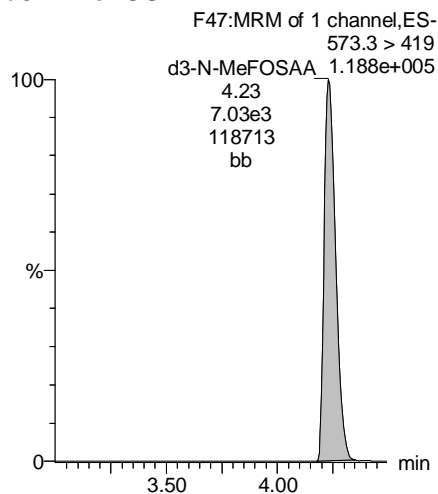
PFDaA



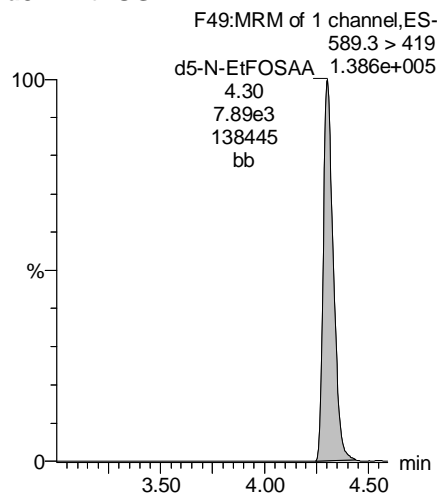
13C2-PFUnA



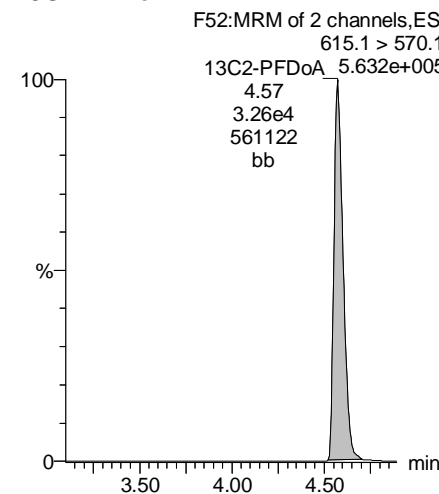
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

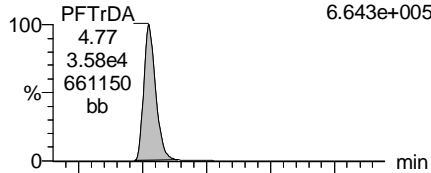
Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:46:09 Pacific Daylight Time

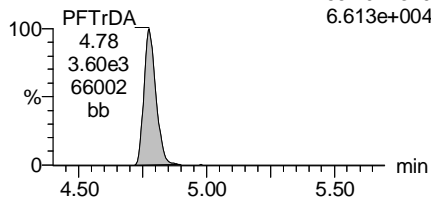
Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

PFTTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
6.643e+005

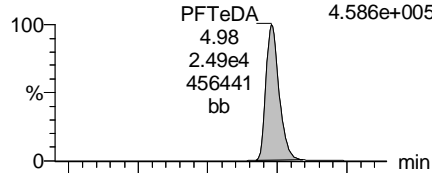


F57:MRM of 2 channels,ES-
662.9 > 319
6.613e+004

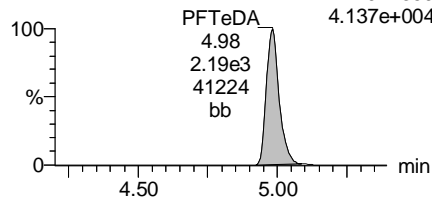


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
4.586e+005

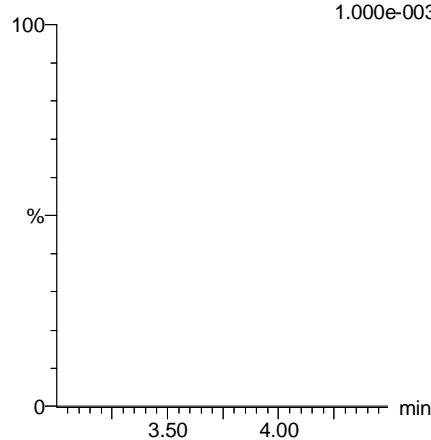


F58:MRM of 4 channels,ES-
712.9 > 369
4.137e+004



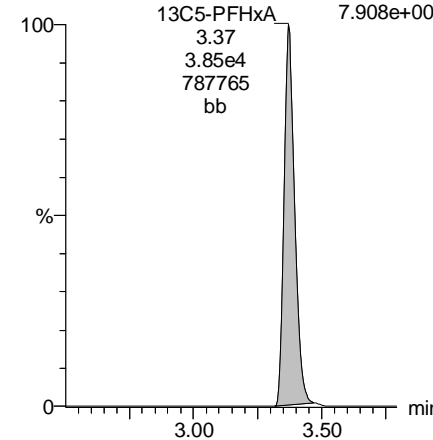
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
1.000e-003



13C5-PFHxA

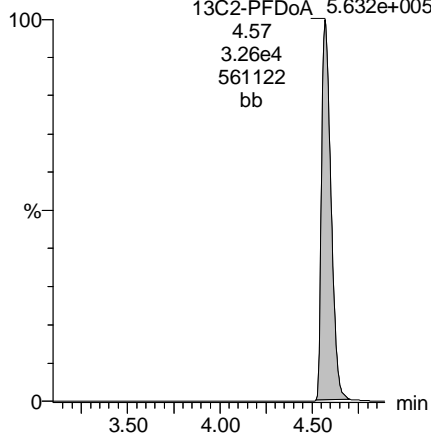
F10:MRM of 1 channel,ES-
318 > 272.9
7.908e+005



13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1

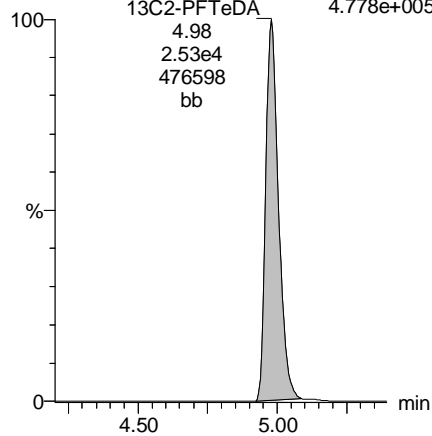
13C2-PFDoA 5.632e+005
4.57
3.26e4
561122
bb



13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6

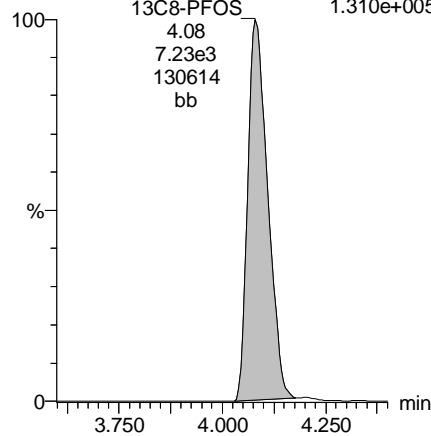
13C2-PFTeDA 4.778e+005
4.98
2.53e4
476598
bb



13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9

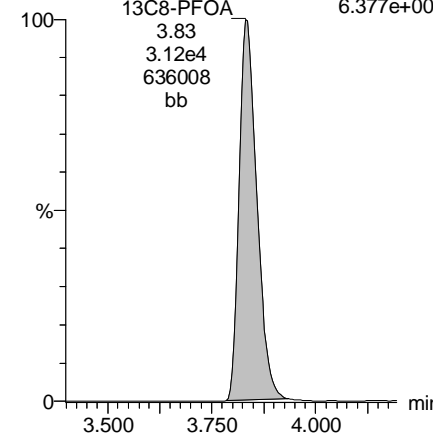
13C8-PFOS 1.310e+005
4.08
7.23e3
130614
bb



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376

13C8-PFOA 6.377e+005
3.83
3.12e4
636008
bb



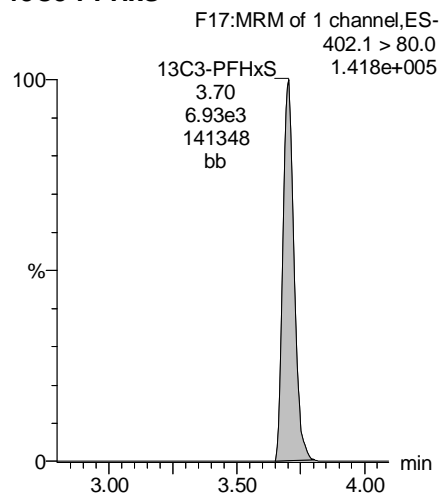
Dataset: U:\Q4.PRO\results\170926M1\170926M1-23.qld

Last Altered: Wednesday, September 27, 2017 14:45:02 Pacific Daylight Time

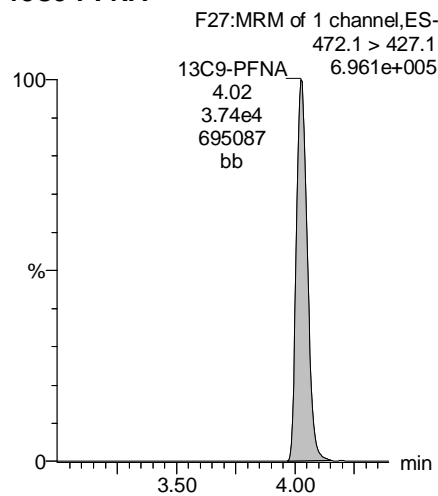
Printed: Wednesday, September 27, 2017 14:46:09 Pacific Daylight Time

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

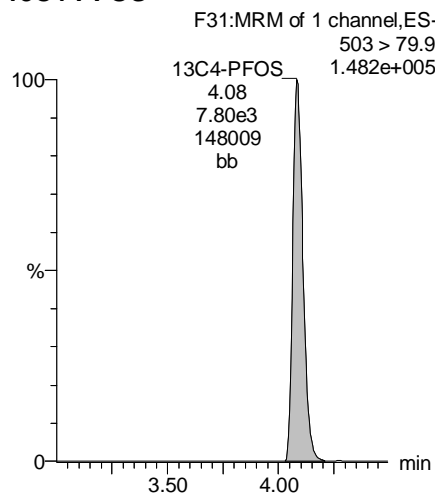
13C3-PFHxS



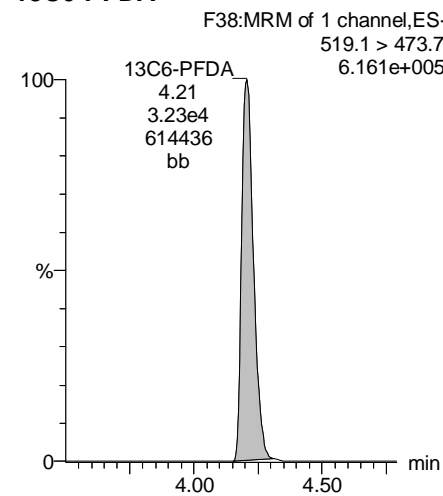
13C9-PFNA



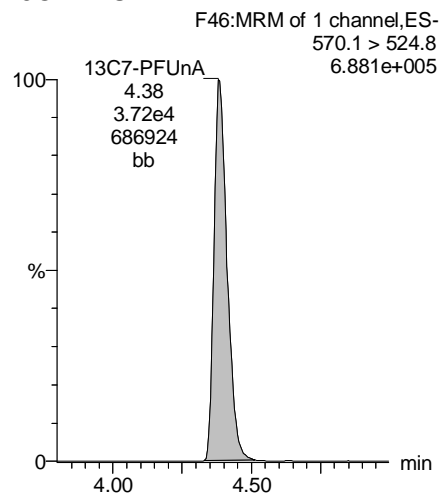
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:50:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	9.90e3	9.78e3	0.11684		3.17	3.15	12.7	104	
2	4 PFHxA	313.2 > 268.9	7.39e4	1.36e4	0.11684		3.37	3.37	27.1	150	
3	5 PFHpA	363.1 > 319.1	5.13e4	4.87e4	0.11684		3.63	3.62	13.2	110	
4	6 L-PFHxS	399.0 > 80.0	1.24e4	4.09e3	0.11684		3.71	3.70	37.9	138	
5	9 L-PFOA	413 > 368.7	3.60e4	3.66e4	0.11684		3.84	3.83	12.3	97.4	
6	12 PFNA	463.1 > 419.1	3.41e4	3.58e4	0.11684		4.03	4.02	11.9	91.8	
7	14 L-PFOS	499 > 79.9	3.07e4	8.74e3	0.11684		4.08	4.08	43.8	352	
8	16 PFDA	513 > 468.8	3.47e4	2.93e4	0.11684		4.21	4.21	14.8	85.5	
9	18 N-MeFOSAA	570.1 > 419	1.03e4	7.80e3	0.11684		4.24	4.24	215	80.7	
10	19 N-EtFOSAA	584.2 > 419	8.15e3	8.26e3	0.11684		4.32	4.30	160	84.8	
11	20 PFUnA	562.9 > 518.9	2.68e4	3.48e4	0.11684		4.39	4.39	9.63	82.5	
12	22 PFDoA	613.0 > 569.1	3.20e4	3.88e4	0.11684		4.59	4.58	10.3	72.9	

Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:50:40 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTeDA	662.9 > 618.9	4.24e4	3.88e4	0.11684		4.78	4.77	13.7	74.7	
2	25	PFTeDA	712.9 > 668.8	2.88e4	2.92e4	0.11684		4.99	4.98	12.3	75.5	
3	31	13C3-PFBA	216.1 > 172.1	1.80e4	1.45e4	0.11684	0.890	1.88	1.86	15.5	149	139.2
4	32	13C3-PFPeA	266.1 > 222.1	3.43e4	4.29e4	0.11684	0.236	2.98	2.97	4.00	145	135.7
5	33	13C3-PFBS	302.1 > 79.9	9.78e3	4.29e4	0.11684	0.056	3.17	3.15	1.14	175	163.2
6	34	13C2-PFHxA	315 > 269.8	1.36e4	4.29e4	0.11684	0.283	3.37	3.37	1.59	48.1	112.3
7	35	13C4-PFHpA	367 > 322.1	4.87e4	4.29e4	0.11684	0.499	3.63	3.62	5.69	97.4	91.1
8	36	18O2-PFHxS	403 > 103.0	4.09e3	7.38e3	0.11684	0.482	3.71	3.70	6.93	123	114.9
9	37	13C2-6:2 FTS	429.1 > 408.9	6.39e3	3.18e4	0.11684	0.183	3.84	3.82	2.51	117	109.7
10	38	13C2-PFOA	414.9 > 369.7	3.66e4	3.18e4	0.11684	1.158	3.84	3.83	14.4	106	99.5
11	39	13C5-PFNA	468.1 > 423.1	3.58e4	4.29e4	0.11684	0.888	4.03	4.02	10.4	100	93.8
12	40	13C8-PFOSA	506.1 > 78.0	4.00e3	4.22e4	0.11684	0.143	4.04	4.03	1.18	71.0	66.3
13	41	13C8-PFOS	507 > 79.9	8.74e3	9.29e3	0.11684	1.013	4.08	4.09	11.8	99.4	92.9
14	42	13C2-PFDA	515.1 > 469.9	2.93e4	3.91e4	0.11684	0.876	4.21	4.21	9.36	91.5	85.5
15	43	13C2-8:2 FTS	529.1 > 508.7	5.82e3	3.91e4	0.11684	0.148	4.21	4.20	1.86	108	100.9
16	44	d3-N-MeFOSAA	573.3 > 419	7.80e3	4.22e4	0.11684	0.017	4.24	4.23	2.31	1160	83.3
17	45	d5-N-EtFOSAA	589.3 > 419	8.26e3	4.22e4	0.11684	0.019	4.32	4.30	2.44	1130	80.9
18	46	13C2-PFUnA	565 > 519.8	3.48e4	4.22e4	0.11684	0.959	4.39	4.39	10.3	92.0	86.0
19	47	13C2-PFDoA	615.1 > 570.1	3.88e4	4.22e4	0.11684	1.003	4.59	4.57	11.5	98.0	91.6
20	49	13C2-PFTeDA	714.8 > 669.6	2.92e4	4.22e4	0.11684	0.716	4.99	4.98	8.65	103	96.6
21	54	13C4-PFBA	217.1 > 172.1	1.45e4	1.45e4	0.11684	1.000	1.88	1.86	12.5	107	100.0
22	55	13C5-PFHxA	318 > 272.9	4.29e4	4.29e4	0.11684	1.000	3.37	3.37	5.00	42.8	100.0
23	56	13C3-PFHxS	402.1 > 80.0	7.38e3	7.38e3	0.11684	1.000	3.71	3.70	12.5	107	100.0
24	57	13C8-PFOA	421.3 > 376	3.18e4	3.18e4	0.11684	1.000	3.84	3.83	12.5	107	100.0
25	58	13C9-PFNA	472.1 > 427.1	4.29e4	4.29e4	0.11684	1.000	4.03	4.02	12.5	107	100.0
26	59	13C4-PFOS	503 > 79.9	9.29e3	9.29e3	0.11684	1.000	4.08	4.08	12.5	107	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.91e4	3.91e4	0.11684	1.000	4.21	4.20	12.5	107	100.0
28	61	13C7-PFUnA	570.1 > 524.8	4.22e4	4.22e4	0.11684	1.000	4.39	4.39	12.5	107	100.0
29	62	Total PFHxS	399.0 > 80.0	1.24e4	4.09e3	0.11684		3.71		37.9	138	
30	63	Total PFOA	413 > 368.7	3.60e4	3.66e4	0.11684		3.84		12.3	97.4	
31	64	Total PFOS	499 > 79.9	3.07e4	8.74e3	0.11684		4.08		43.8	352	
32	65	Total N-MeFOSAA	570.1 > 419	1.03e4	7.80e3	0.11684		4.24		215	80.7	

AC 9/27/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:50:40 Pacific Daylight Time

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	8.15e3	8.26e3	0.11684		4.32		160	84.8	

Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:50:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.70	12395.243	4089.869	37.884	MM	138.1
2	7 Br-PFHxS	399.0 > 80.0			4089.869		MM-I	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	36006.367	36624.188	12.289	bb	97.4

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.08	30655.410	8743.786	43.825	MM	351.5
2	15 Br-PFOS	499 > 79.9			8743.786		MM-I	

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	18 N-MeFOSAA	570.1 > 419	4.24	10303.868	7795.148	214.798	bb	80.7

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	19 N-EtFOSAA	584.2 > 419	4.30	8147.277	8256.974	160.341	bb	84.8

Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:50:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

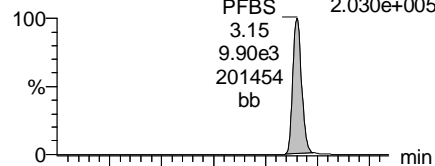
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

PFBS

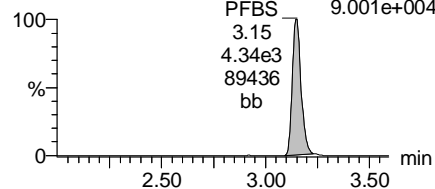
F6:MRM of 2 channels,ES-
299.1 > 79.9
2.030e+005

PFBS
3.15
9.90e3
201454
bb



F6:MRM of 2 channels,ES-
299.1 > 98.9
9.001e+004

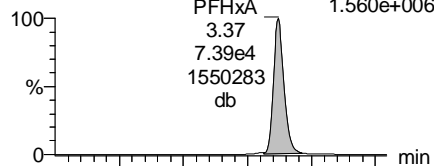
PFBS
3.15
4.34e3
89436
bb



PFHxA

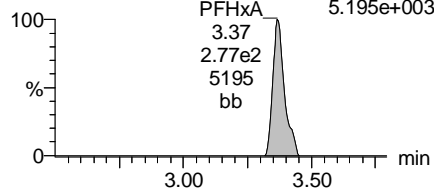
F8:MRM of 2 channels,ES-
313.2 > 268.9
1.560e+006

PFHxA
3.37
7.39e4
1550283
db



F8:MRM of 2 channels,ES-
313.2 > 119
5.195e+003

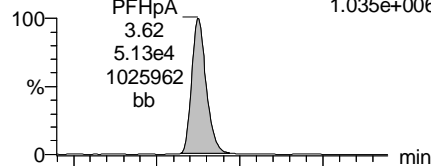
PFHxA
3.37
2.77e2
5195
bb



PFHpA

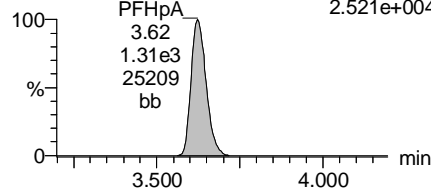
F14:MRM of 2 channels,ES-
363.1 > 319.1
1.035e+006

PFHpA
3.62
5.13e4
1025962
bb



F14:MRM of 2 channels,ES-
363.1 > 169.1
2.521e+004

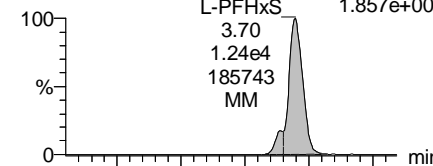
PFHpA
3.62
1.31e3
25209
bb



Total PFHxS

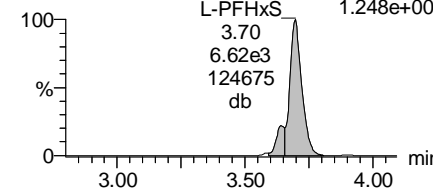
F16:MRM of 2 channels,ES-
399.0 > 80.0
1.857e+005

L-PFHxS
3.70
1.24e4
185743
MM



F16:MRM of 2 channels,ES-
399.0 > 99.0
1.248e+005

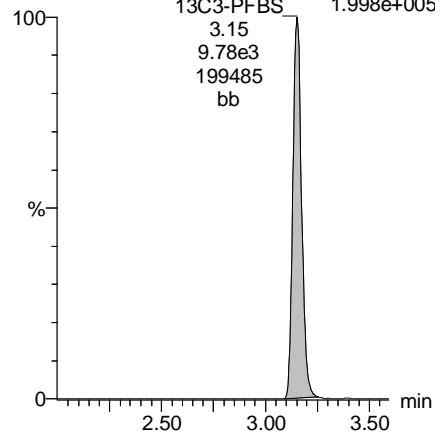
L-PFHxS
3.70
6.62e3
124675
db



13C3-PFBS

F7:MRM of 1 channel,ES-
302.1 > 79.9
1.998e+005

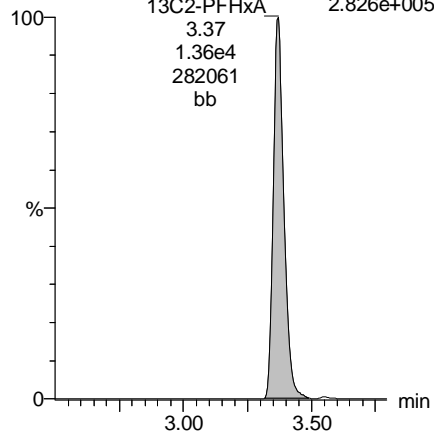
13C3-PFBS
3.15
9.78e3
199485
bb



13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
2.826e+005

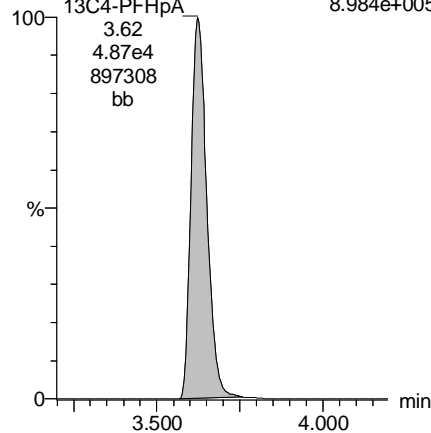
13C2-PFHxA
3.37
1.36e4
282061
bb



13C4-PFHpA

F15:MRM of 1 channel,ES-
367 > 322.1
8.984e+005

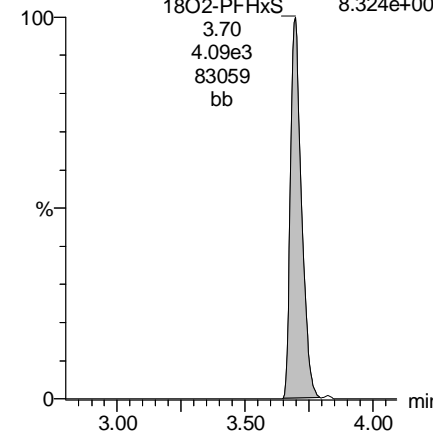
13C4-PFHpA
3.62
4.87e4
897308
bb



18O2-PFHxS

F18:MRM of 1 channel,ES-
403 > 103.0
8.324e+004

18O2-PFHxS
3.70
4.09e3
83059
bb



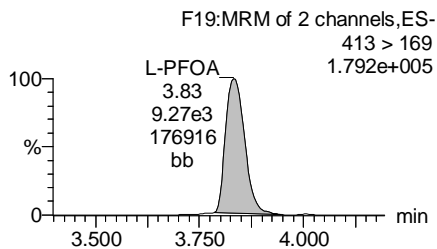
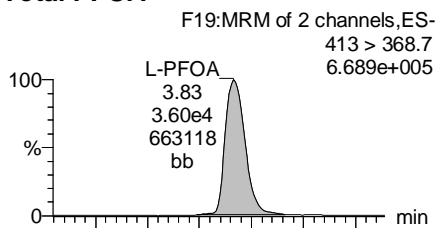
Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

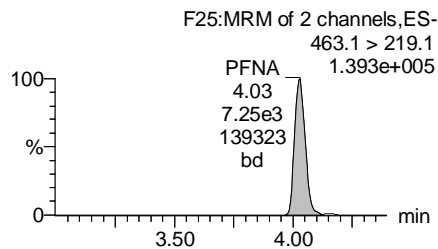
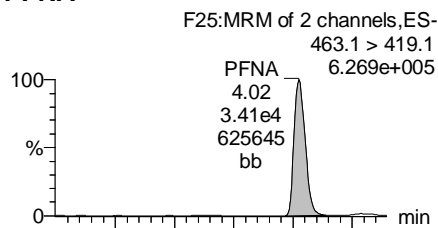
Printed: Wednesday, September 27, 2017 14:50:26 Pacific Daylight Time

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

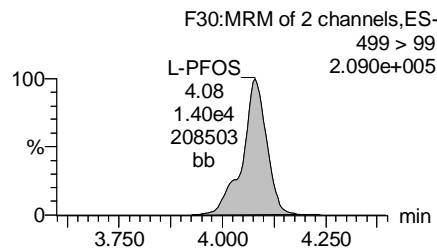
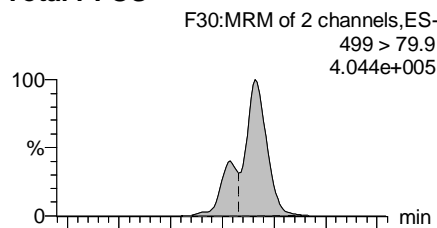
Total PFOA



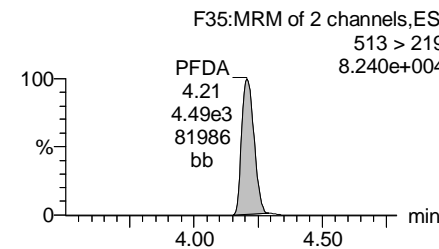
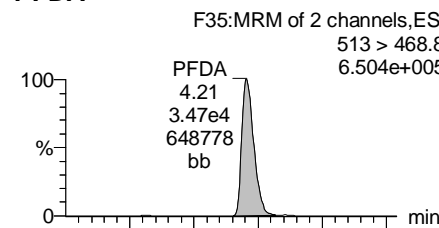
PFNA



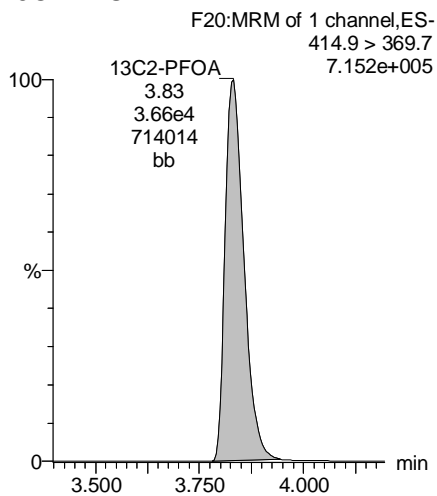
Total PFOS



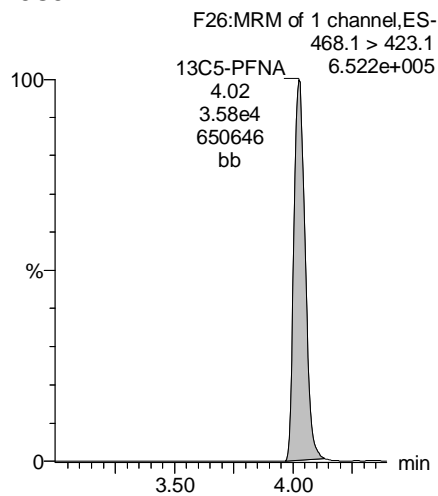
PFDA



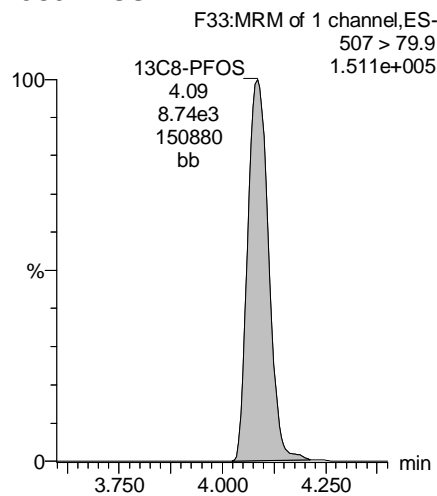
13C2-PFOA



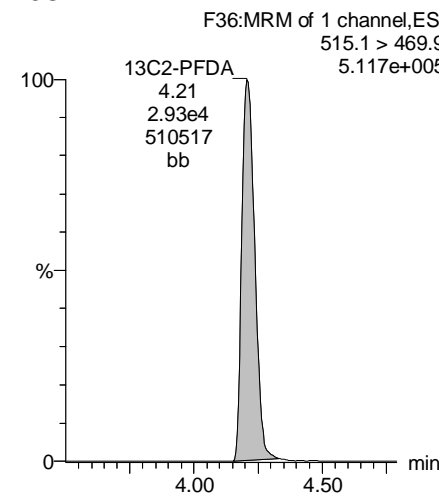
13C5-PFNA



13C8-PFOS



13C2-PFDA



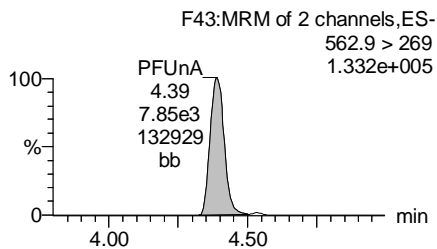
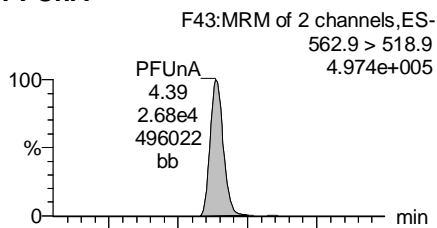
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Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

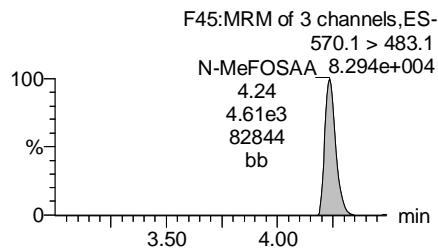
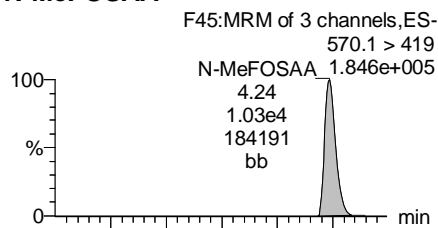
Printed: Wednesday, September 27, 2017 14:50:26 Pacific Daylight Time

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

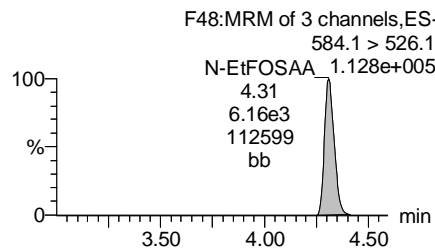
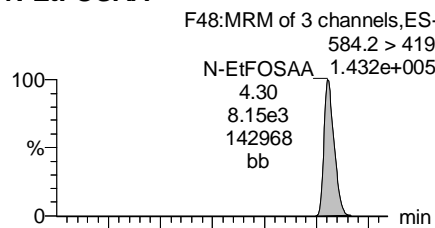
PFUnA



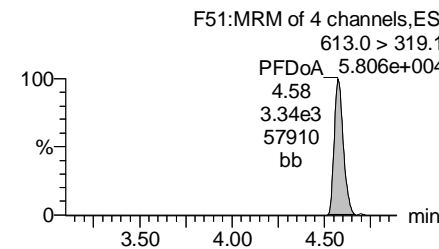
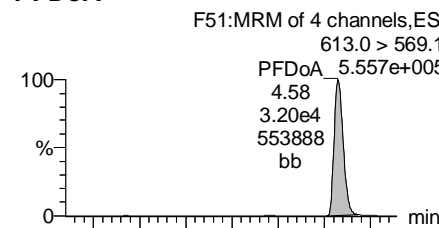
N-MeFOSAA



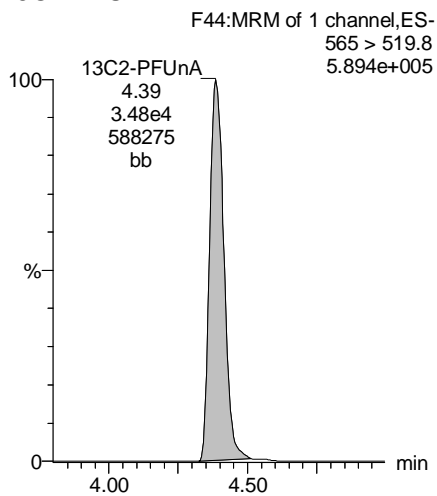
N-EtFOSAA



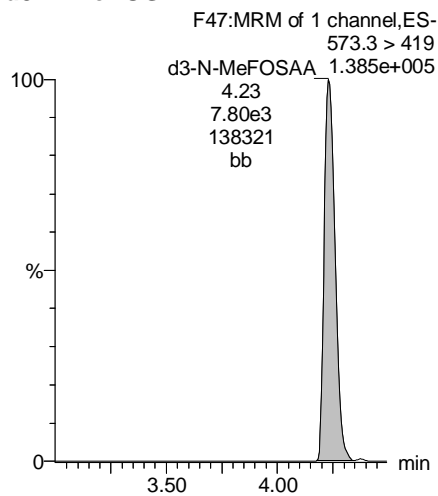
PFDaA



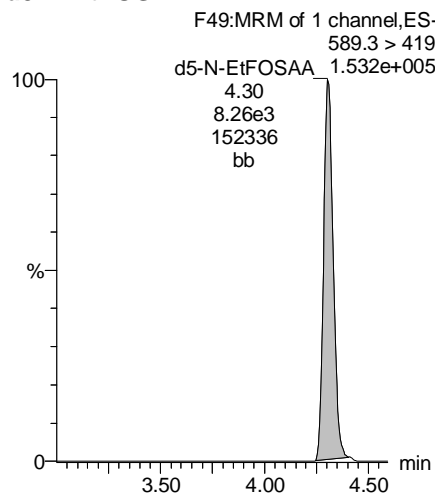
13C2-PFUnA



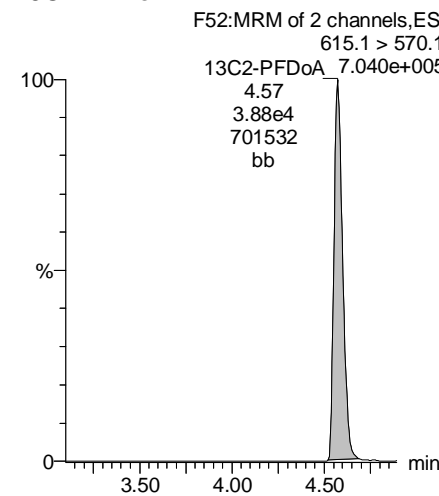
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

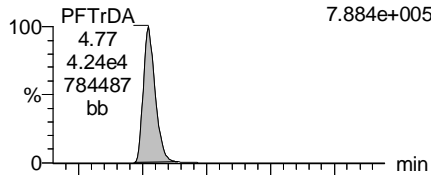
Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 14:50:26 Pacific Daylight Time

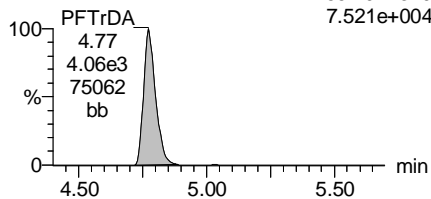
Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

PFTTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
7.884e+005

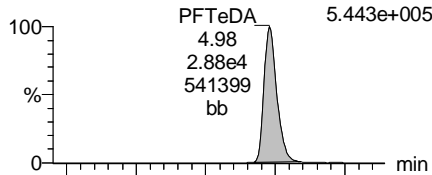


F57:MRM of 2 channels,ES-
662.9 > 319
7.521e+004

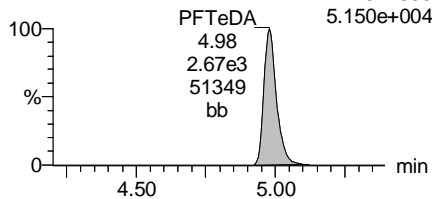


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
5.443e+005

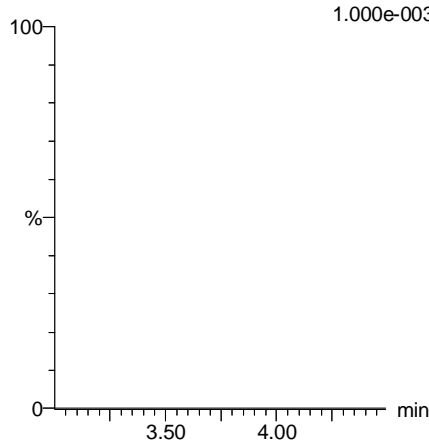


F58:MRM of 4 channels,ES-
712.9 > 369
5.150e+004



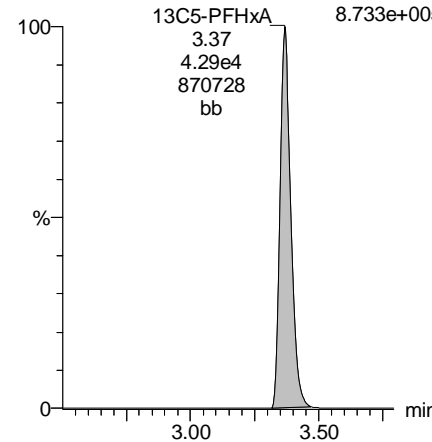
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
1.000e-003



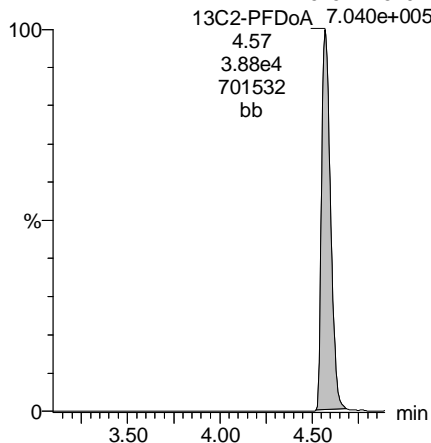
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.733e+005



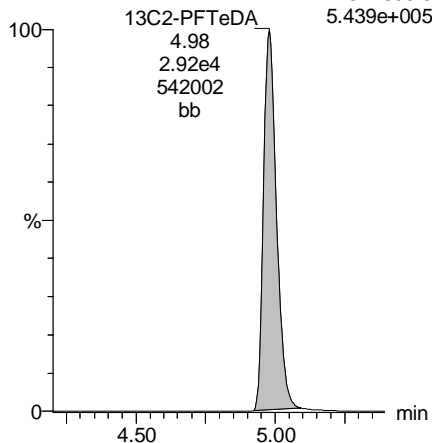
13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
7.040e+005



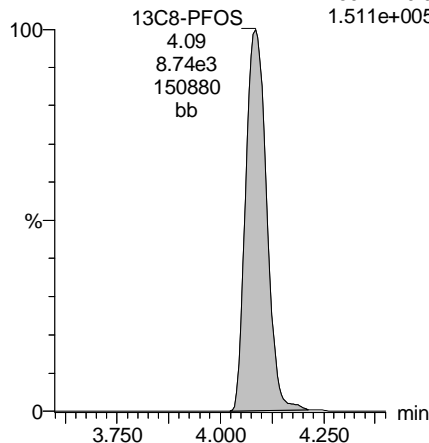
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
5.439e+005



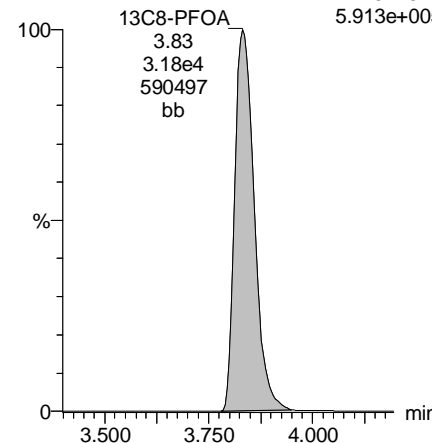
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.511e+005



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
5.913e+005



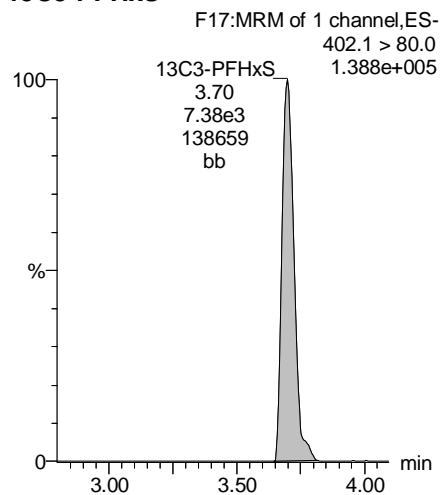
Dataset: U:\Q4.PRO\results\170926M1\170926M1-24.qld

Last Altered: Wednesday, September 27, 2017 14:49:39 Pacific Daylight Time

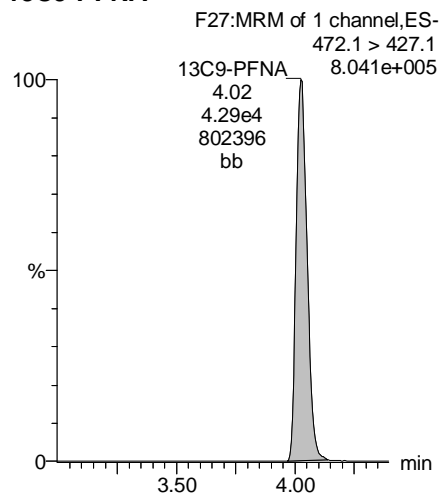
Printed: Wednesday, September 27, 2017 14:50:26 Pacific Daylight Time

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

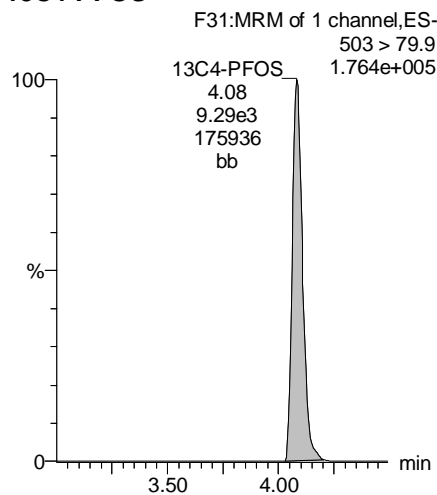
13C3-PFHxS



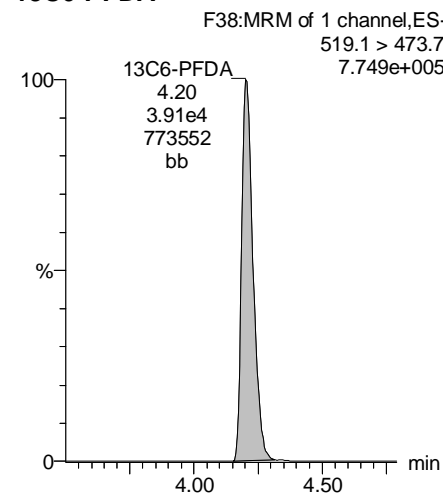
13C9-PFNA



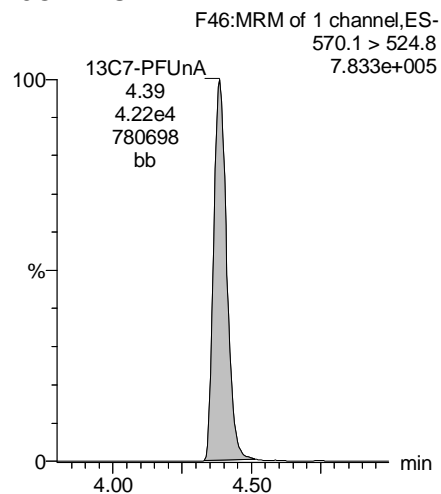
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-33.qld

Last Altered: Wednesday, September 27, 2017 15:53:05 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 15:53:56 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.02e4	7.88e3	0.11629		3.17	3.15	16.1	133	
2	4 PFHxA	313.2 > 268.9	2.39e5	1.13e4	0.11629		3.37	3.37	106	590	
3	5 PFHpA	363.1 > 319.1	7.55e4	4.12e4	0.11629		3.63	3.62	22.9	193	
4	6 L-PFHxS	399.0 > 80.0	5.45e4	3.25e3	0.11629		3.71	3.69	210	768	
5	9 L-PFOA	413 > 368.7	2.32e4	3.14e4	0.11629		3.84	3.83	9.25	73.1	
6	12 PFNA	463.1 > 419.1	2.22e3	2.59e4	0.11629		4.03	4.02	1.07	7.22	
7	14 L-PFOS	499 > 79.9	1.24e5	6.99e3	0.11629		4.08	4.07	222	1740	
8	16 PFDA	513 > 468.8	9.32e2	2.25e4	0.11629		4.21	4.20	0.518	1.83	
9	18 N-MeFOSAA	570.1 > 419		6.86e3	0.11629		4.24				
10	19 N-EtFOSAA	584.2 > 419		6.42e3	0.11629		4.32				
11	20 PFUnA	562.9 > 518.9		2.88e4	0.11629		4.39				
12	22 PFDoA	613.0 > 569.1		2.38e4	0.11629		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-33.qld

Last Altered: Wednesday, September 27, 2017 15:53:05 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 15:54:33 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	2.38e4	0.11629		4.78					
2	25	PFTeDA	712.9 > 668.8	2.37e4	0.11629		4.99					
3	31	13C3-PFBA	216.1 > 172.1	1.47e4	2.34e4	0.11629	0.890	1.88	1.85	7.89	76.3	71.0
4	32	13C3-PFPeA	266.1 > 222.1	3.01e4	4.08e4	0.11629	0.236	2.98	2.97	3.69	134	125.0
5	33	13C3-PFBS	302.1 > 79.9	7.88e3	4.08e4	0.11629	0.056	3.17	3.14	0.965	148	138.1
6	34	13C2-PFHxA	315 > 269.8	1.13e4	4.08e4	0.11629	0.283	3.37	3.37	1.39	42.0	97.8
7	35	13C4-PFHpA	367 > 322.1	4.12e4	4.08e4	0.11629	0.499	3.63	3.62	5.04	86.8	80.7
8	36	18O2-PFHxS	403 > 103.0	3.25e3	5.91e3	0.11629	0.482	3.71	3.69	6.87	123	114.0
9	37	13C2-6:2 FTS	429.1 > 408.9	6.38e3	2.94e4	0.11629	0.183	3.84	3.82	2.72	128	118.7
10	38	13C2-PFOA	414.9 > 369.7	3.14e4	2.94e4	0.11629	1.158	3.84	3.83	13.4	99.3	92.3
11	39	13C5-PFNA	468.1 > 423.1	2.59e4	3.73e4	0.11629	0.888	4.03	4.02	8.70	84.2	78.4
12	40	13C8-PFOSA	506.1 > 78.0	3.19e3	3.72e4	0.11629	0.143	4.04	4.03	1.07	64.6	60.1
13	41	13C8-PFOS	507 > 79.9	6.99e3	7.17e3	0.11629	1.013	4.08	4.08	12.2	103	96.3
14	42	13C2-PFDA	515.1 > 469.9	2.25e4	3.19e4	0.11629	0.876	4.21	4.20	8.82	86.6	80.5
15	43	13C2-8:2 FTS	529.1 > 508.7	4.04e3	3.19e4	0.11629	0.148	4.21	4.19	1.58	92.2	85.8
16	44	d3-N-MeFOSAA	573.3 > 419	6.86e3	3.72e4	0.11629	0.017	4.24	4.23	2.31	1160	83.3
17	45	d5-N-EtFOSAA	589.3 > 419	6.42e3	3.72e4	0.11629	0.019	4.32	4.30	2.16	1000	71.5
18	46	13C2-PFUnA	565 > 519.8	2.88e4	3.72e4	0.11629	0.959	4.39	4.37	9.69	86.8	80.8
19	47	13C2-PFDoA	615.1 > 570.1	2.38e4	3.72e4	0.11629	1.003	4.59	4.56	8.01	68.7	63.9
20	49	13C2-PFTeDA	714.8 > 669.6	2.37e4	3.72e4	0.11629	0.716	4.99	4.97	7.96	95.6	88.9
21	54	13C4-PFBA	217.1 > 172.1	2.34e4	2.34e4	0.11629	1.000	1.88	1.85	12.5	107	100.0
22	55	13C5-PFHxA	318 > 272.9	4.08e4	4.08e4	0.11629	1.000	3.37	3.37	5.00	43.0	100.0
23	56	13C3-PFHxS	402.1 > 80.0	5.91e3	5.91e3	0.11629	1.000	3.71	3.69	12.5	107	100.0
24	57	13C8-PFOA	421.3 > 376	2.94e4	2.94e4	0.11629	1.000	3.84	3.83	12.5	107	100.0
25	58	13C9-PFNA	472.1 > 427.1	3.73e4	3.73e4	0.11629	1.000	4.03	4.01	12.5	107	100.0
26	59	13C4-PFOS	503 > 79.9	7.17e3	7.17e3	0.11629	1.000	4.08	4.08	12.5	107	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.19e4	3.19e4	0.11629	1.000	4.21	4.20	12.5	107	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.72e4	3.72e4	0.11629	1.000	4.39	4.38	12.5	107	100.0
29	62	Total PFHxS	399.0 > 80.0	5.45e4	3.25e3	0.11629		3.71		210	768	
30	63	Total PFOA	413 > 368.7	2.56e4	3.14e4	0.11629		3.84		10.2	78.4	
31	64	Total PFOS	499 > 79.9	1.24e5	6.99e3	0.11629		4.08		222	1740	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.86e3	0.11629		4.24		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-33.qld

Last Altered: Wednesday, September 27, 2017 15:53:05 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 15:54:33 Pacific Daylight Time

Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	6.42e3	0.11629		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-33.qld

Last Altered: Wednesday, September 27, 2017 15:53:05 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 15:53:56 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	54502.063	3251.341	209.537	MM	768.1
2	7 Br-PFHxS	399.0 > 80.0			3251.341		MM-I	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	23220.941	31375.803	9.251	db	73.1
2	10 Br-PFOA	413 > 368.7	3.77	2384.150	31375.803	0.950	bd	5.3

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.07	123912.094	6986.953	221.685	MM	1737.1
2	15 Br-PFOS	499 > 79.9			6986.953		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-33.qld

Last Altered: Wednesday, September 27, 2017 15:53:05 Pacific Daylight Time

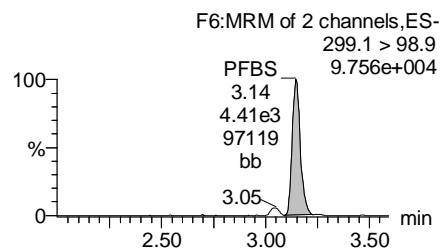
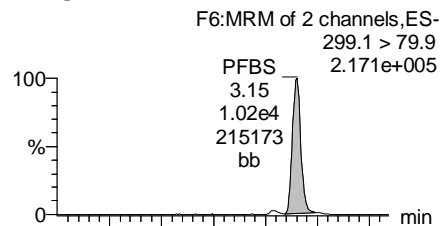
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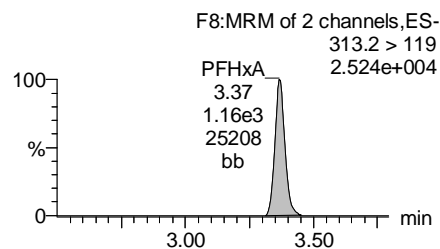
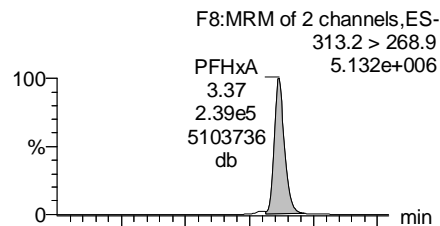
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Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

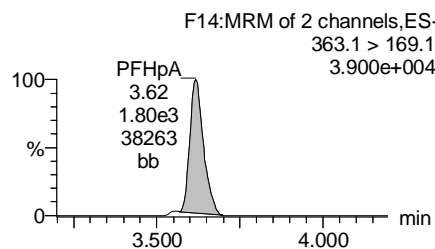
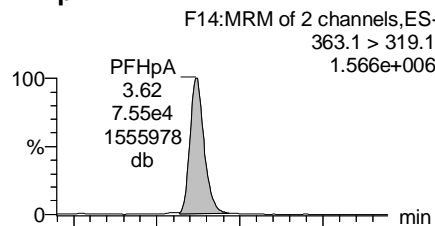
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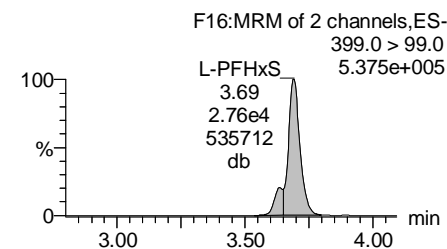
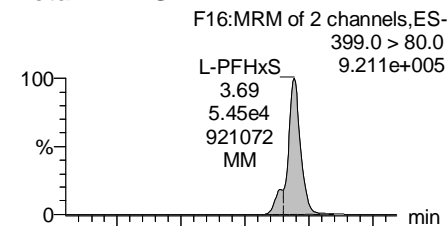
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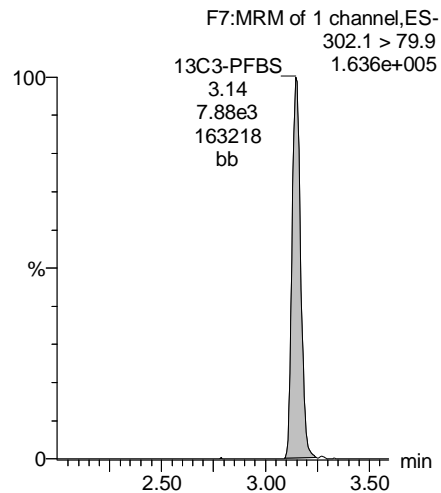
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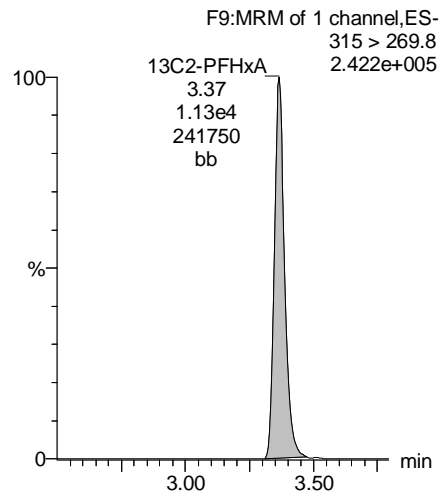
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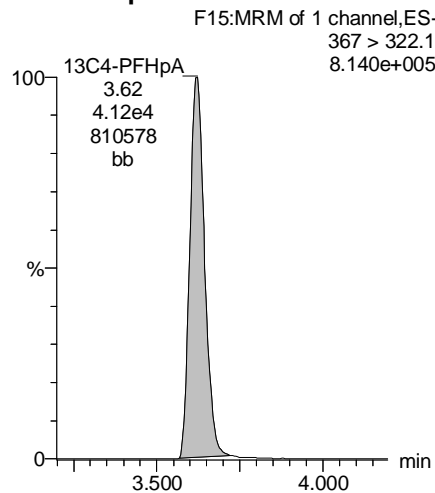
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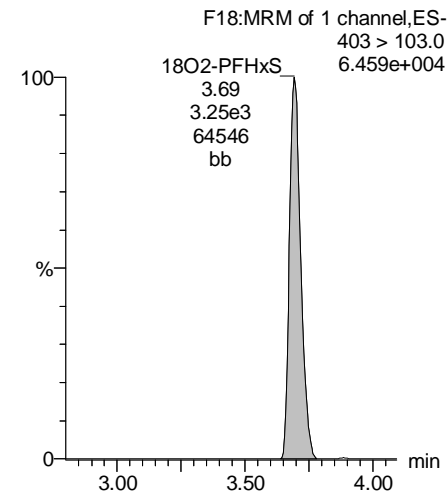
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



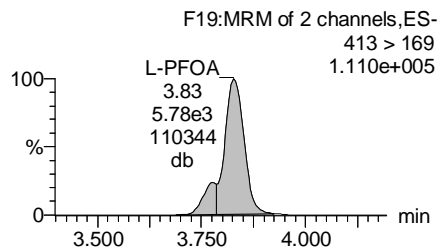
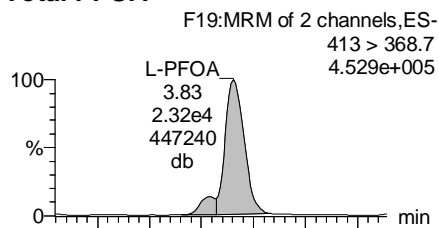
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Last Altered: Wednesday, September 27, 2017 15:53:05 Pacific Daylight Time

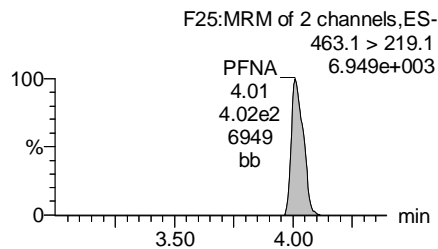
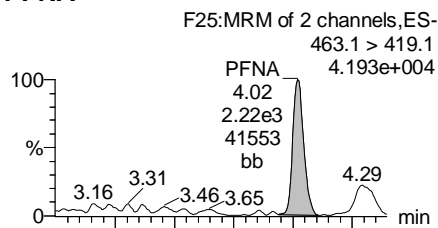
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Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

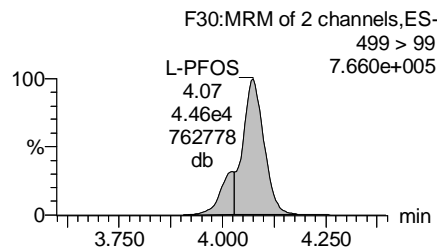
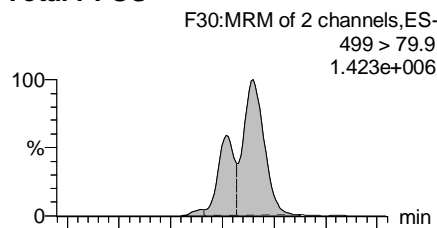
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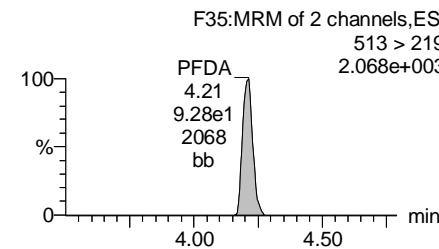
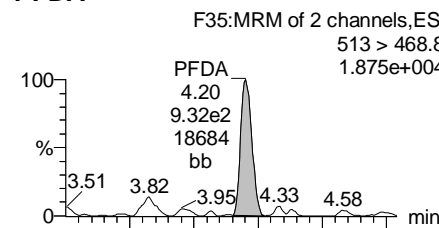
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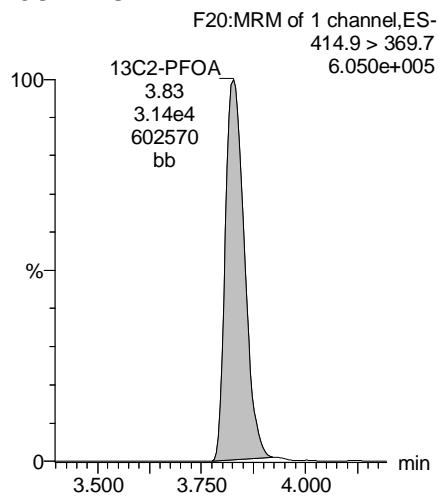
Total PFOS



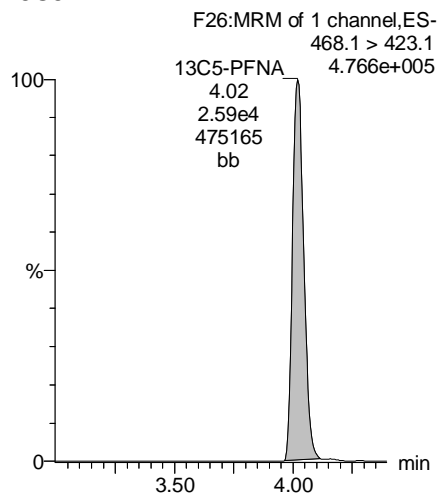
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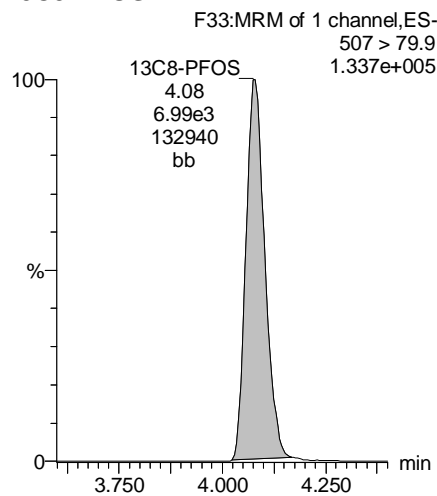
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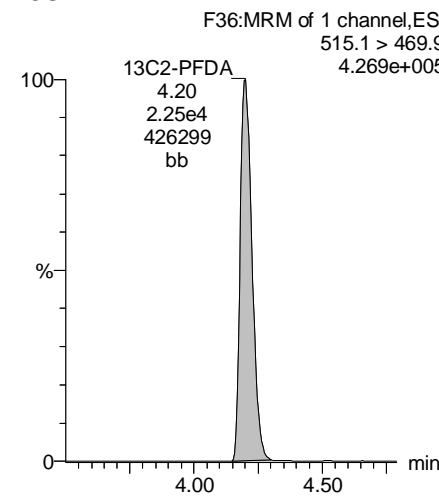
13C5-PFNA



13C8-PFOS



13C2-PFDA



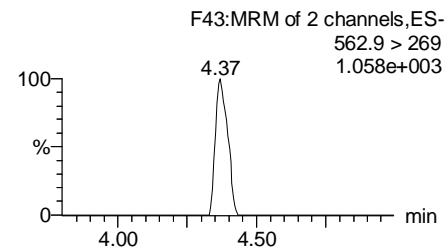
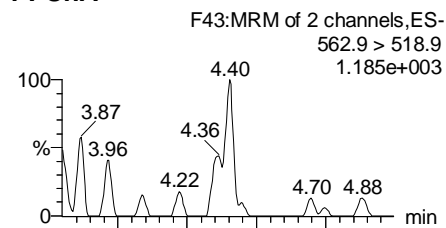
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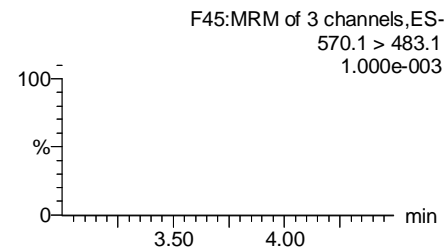
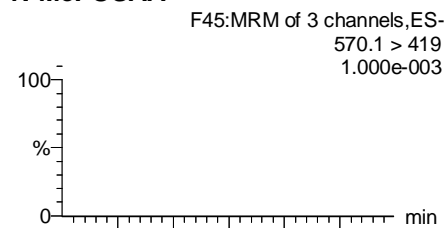
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Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

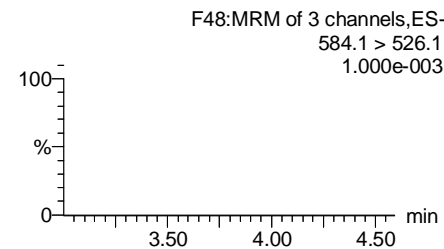
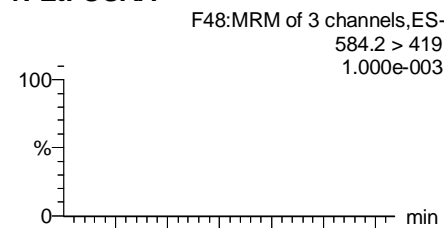
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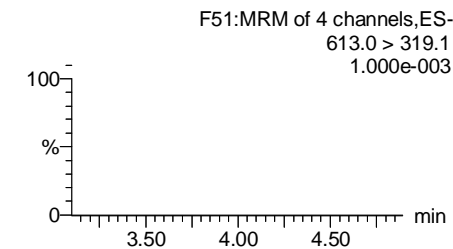
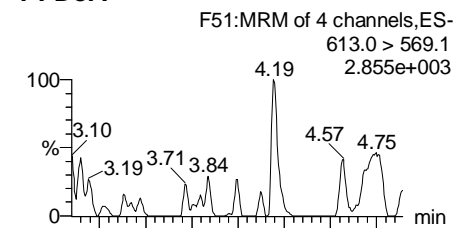
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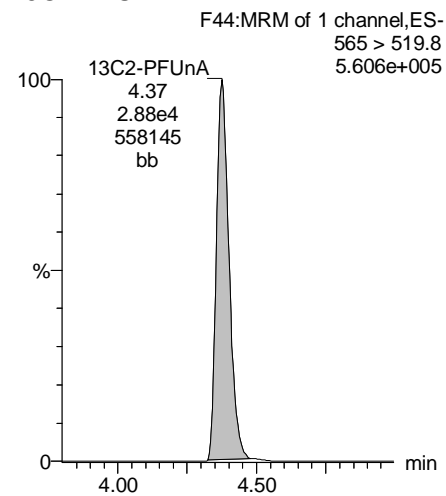
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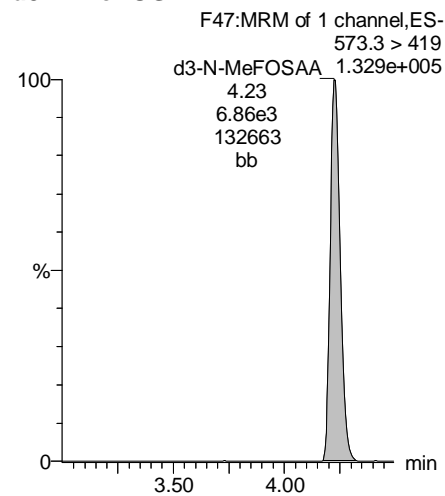
PFDaA



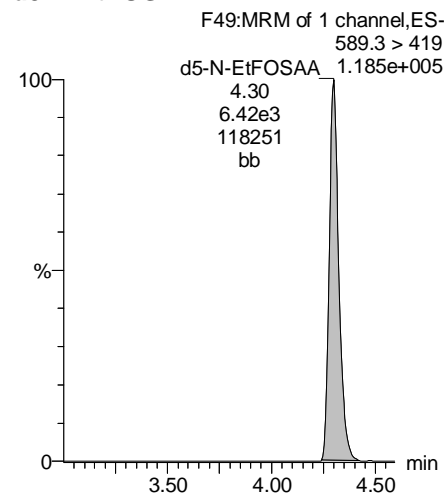
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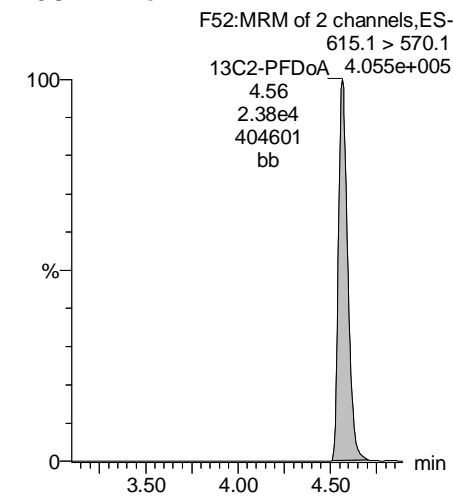
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



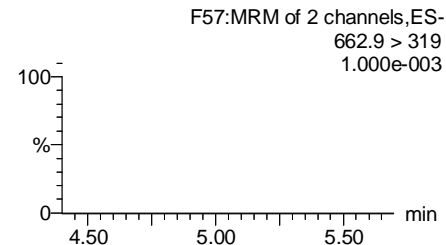
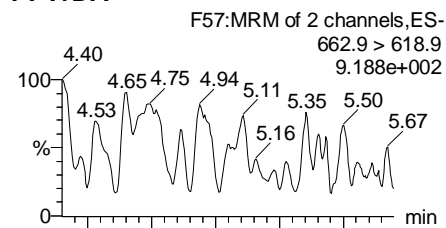
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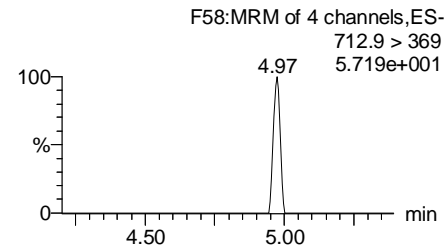
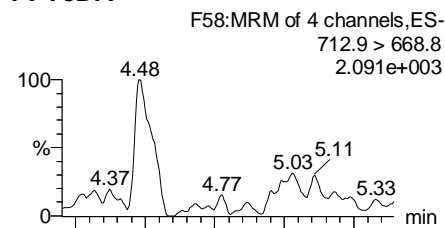
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Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

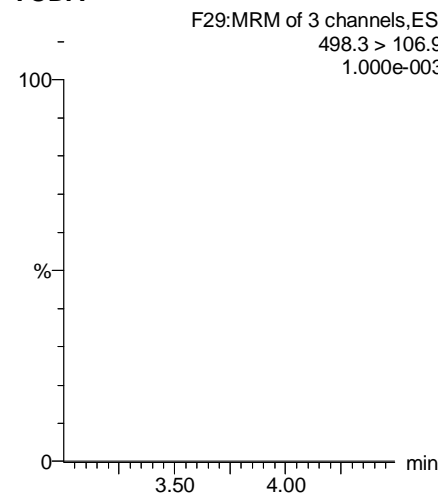
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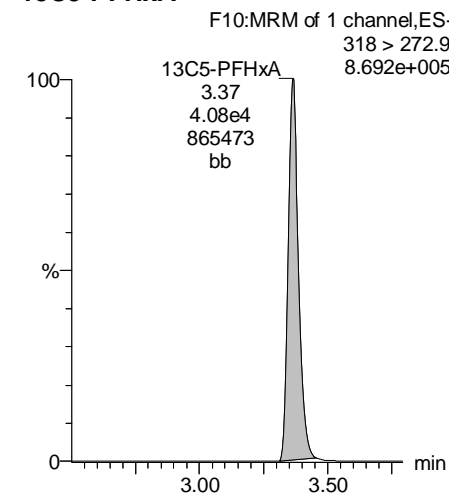
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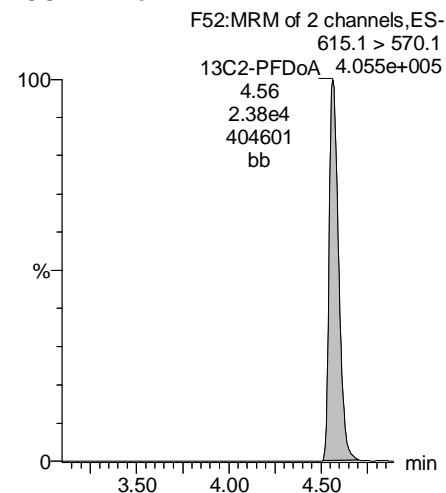
TCDA



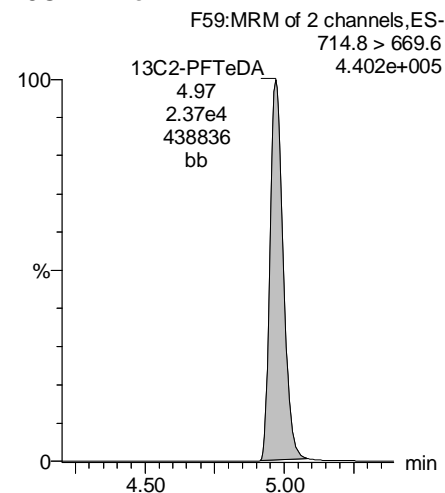
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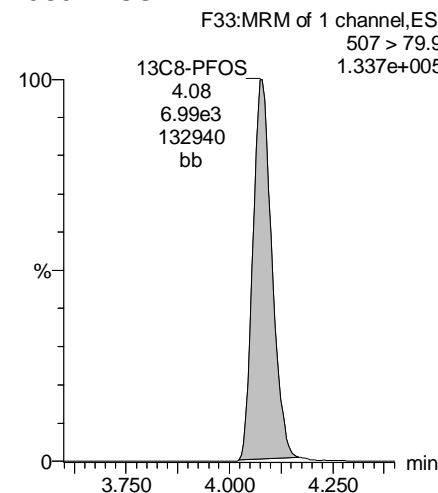
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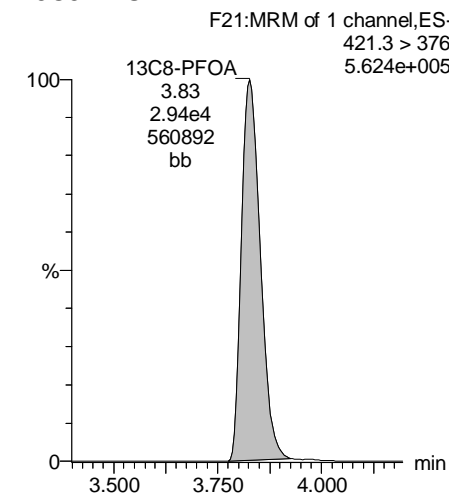
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



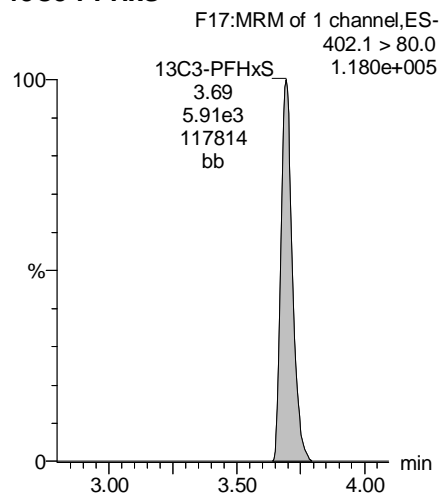
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Last Altered: Wednesday, September 27, 2017 15:53:05 Pacific Daylight Time

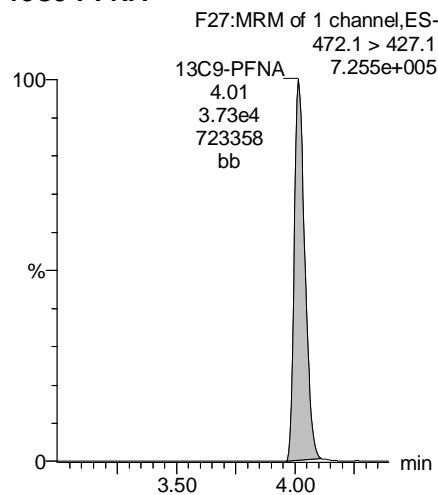
Printed: Wednesday, September 27, 2017 15:53:56 Pacific Daylight Time

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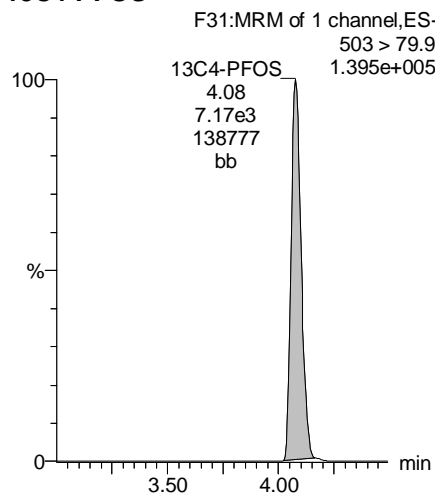
13C3-PFHxS



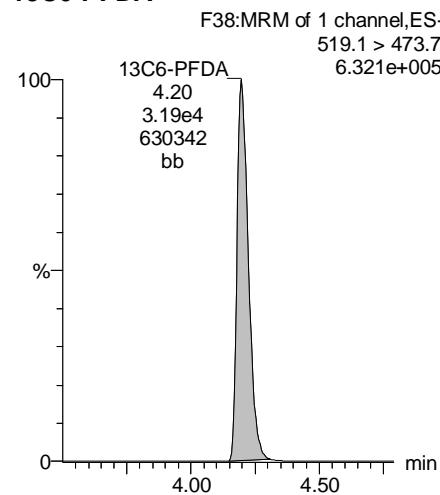
13C9-PFNA



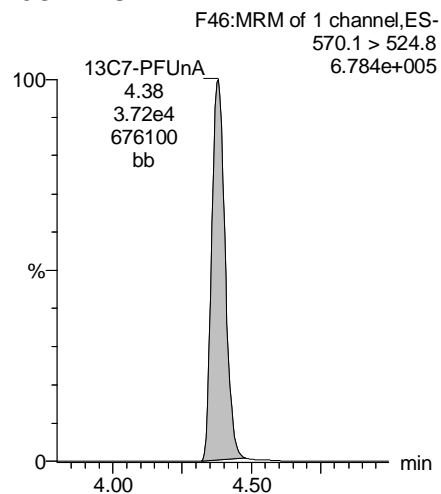
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-66.qld

Last Altered: Monday, October 02, 2017 13:09:18 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:10:49 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_66, Date: 29-Sep-2017, Time: 05:20:30, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	7.97e3	9.26e3	0.11070		2.76	2.78	10.8	93.7	
2	4 PFHxA	313.2 > 268.9	1.62e5	1.04e4	0.11070		3.04	3.06	78.0	444	
3	5 PFHpA	363.1 > 319.1	5.99e4	5.05e4	0.11070		3.33	3.35	14.8	136	
4	6 L-PFHxS	399.0 > 80.0	4.35e4	3.81e3	0.11070		3.41	3.43	142	550	
5	9 L-PFOA	413 > 368.7	2.03e4	3.70e4	0.11070		3.54	3.56	6.85	58.5	
6	12 PFNA	463.1 > 419.1	1.56e3	3.26e4	0.11070		3.72	3.73	0.599	4.31	
7	14 L-PFOS	499 > 79.9	1.22e5	8.63e3	0.11070		3.77	3.79	177	1430	
8	16 PFDA	513 > 468.8	1.24e3	3.35e4	0.11070		3.89	3.90	0.463	2.15	
9	18 N-MeFOSAA	570.1 > 419		3.12e3	0.11070		3.92				
10	19 N-EtFOSAA	584.2 > 419		3.52e3	0.11070		3.99				
11	20 PFUnA	562.9 > 518.9		4.44e4	0.11070		4.04				
12	22 PFDaA	613.0 > 569.1		4.25e4	0.11070		4.19				

Dataset: U:\Q4.PRO\results\170928M3\170928M3-66.qld

Last Altered: Monday, October 02, 2017 13:09:18 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:11:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_66, Date: 29-Sep-2017, Time: 05:20:30, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	4.25e4	0.11070		4.34					
2	25	PFTeDA	712.9 > 668.8	1.61e4	0.11070		4.49					
3	31	13C3-PFBA	216.1 > 172.1	1.33e4	1.48e4	0.11070	0.860	1.27	1.27	11.2	104.5	
4	32	13C3-PFPeA	266.1 > 222.1	2.77e4	3.60e4	0.11070	0.227	2.46	2.50	3.84	135.4	
5	33	13C3-PFBS	302.1 > 79.9	9.26e3	3.60e4	0.11070	0.056	2.76	2.77	1.29	208	184.6
6	34	13C2-PFHxA	315 > 269.8	1.04e4	3.60e4	0.11070	0.279	3.04	3.06	1.44	46.8	103.5
7	35	13C4-PFHpA	367 > 322.1	5.05e4	3.60e4	0.11070	0.719	3.33	3.35	7.01	88.1	78.1
8	36	18O2-PFHxS	403 > 103.0	3.81e3	7.77e3	0.11070	0.477	3.41	3.43	6.13	116	102.9
9	37	13C2-6:2 FTS	429.1 > 408.9	5.13e3	3.31e4	0.11070	0.129	3.54	3.55	1.94	135	119.7
10	38	13C2-PFOA	414.9 > 369.7	3.70e4	3.31e4	0.11070	1.167	3.54	3.56	14.0	108	95.8
11	39	13C5-PFNA	468.1 > 423.1	3.26e4	4.42e4	0.11070	0.856	3.72	3.74	9.23	97.4	86.2
12	40	13C8-PFOA	506.1 > 78.0	1.61e4	5.29e4	0.11070	0.467	4.75	4.75	3.81	73.8	65.3
13	41	13C8-PFOS	507 > 79.9	8.63e3	8.29e3	0.11070	0.983	3.77	3.79	13.0	120	106.0
14	42	13C2-PFDA	515.1 > 469.9	3.35e4	4.22e4	0.11070	0.859	3.89	3.90	9.92	104	92.4
15	43	13C2-8:2 FTS	529.1 > 508.7	3.68e3	4.22e4	0.11070	0.091	3.88	3.90	1.09	107	95.2
16	44	d3-N-MeFOSAA	573.3 > 419	3.12e3	5.29e4	0.11070	0.007	3.92	3.94	0.737	1020	69.6
17	45	d5-N-EtFOSAA	589.3 > 419	3.52e3	5.29e4	0.11070	0.007	3.99	4.01	0.831	1050	71.8
18	46	13C2-PFUnA	565 > 519.8	4.44e4	5.29e4	0.11070	0.938	4.04	4.06	10.5	101	89.4
19	47	13C2-PFDoA	615.1 > 570.1	4.25e4	5.29e4	0.11070	0.966	4.19	4.20	10.1	94.0	83.3
20	49	13C2-PFTeDA	714.8 > 669.6	1.61e4	5.29e4	0.11070	0.362	4.49	4.51	3.81	94.9	84.0
21	54	13C4-PFBA	217.1 > 172.1	1.48e4	1.48e4	0.11070	1.000	1.27	1.27	12.5	113	100.0
22	55	13C5-PFHxA	318 > 272.9	3.60e4	3.60e4	0.11070	1.000	3.04	3.06	5.00	45.2	100.0
23	56	13C3-PFHxS	402.1 > 80.0	7.77e3	7.77e3	0.11070	1.000	3.41	3.43	12.5	113	100.0
24	57	13C8-PFOA	421.3 > 376	3.31e4	3.31e4	0.11070	1.000	3.54	3.56	12.5	113	100.0
25	58	13C9-PFNA	472.1 > 427.1	4.42e4	4.42e4	0.11070	1.000	3.72	3.74	12.5	113	100.0
26	59	13C4-PFOS	503 > 79.9	8.29e3	8.29e3	0.11070	1.000	3.77	3.79	12.5	113	100.0
27	60	13C6-PFDA	519.1 > 473.7	4.22e4	4.22e4	0.11070	1.000	3.89	3.90	12.5	113	100.0
28	61	13C7-PFUnA	570.1 > 524.8	5.29e4	5.29e4	0.11070	1.000	4.04	4.05	12.5	113	100.0
29	62	Total PFHxS	399.0 > 80.0	4.35e4	3.81e3	0.11070		3.41		142	550	
30	63	Total PFOA	413 > 368.7	2.17e4	3.70e4	0.11070		3.54		7.32	60.1	
31	64	Total PFOS	499 > 79.9	1.22e5	8.63e3	0.11070		3.77		177	1430	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.12e3	0.11070		3.92		0.000		

Vista Analytical Laboratory

Rev'd: MM 10/8/17

Dataset: U:\Q4.PRO\results\170928M3\170928M3-66.qld

Last Altered: Monday, October 02, 2017 13:09:18 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:11:04 Pacific Daylight Time

Name: 170928M3_66, Date: 29-Sep-2017, Time: 05:20:30, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.52e3	0.11070		3.99		0.000		

Dataset: U:\Q4.PRO\results\170928M3\170928M3-66.qld

Last Altered: Monday, October 02, 2017 13:09:18 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:10:49 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_66, Date: 29-Sep-2017, Time: 05:20:30, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.43	43471.500	3813.352	142.498	MM	550.3
2	7 Br-PFHxS	399.0 > 80.0			3813.352		MM-I	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.56	20284.746	37027.086	6.848	db	58.5
2	10 Br-PFOA	413 > 368.7	3.50	1405.591	37027.086	0.475	bd	1.6

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	3.79	122400.914	8634.861	177.190	MM	1434.8
2	15 Br-PFOS	499 > 79.9			8634.861		MM-	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170928M3\170928M3-66.qld

Last Altered: Monday, October 02, 2017 13:09:18 Pacific Daylight Time

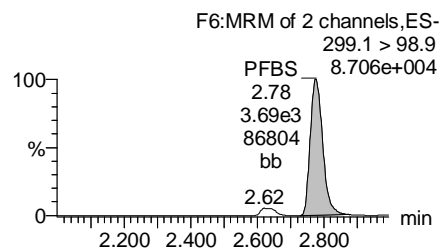
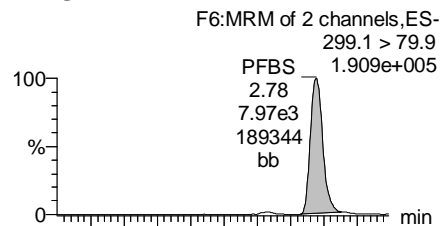
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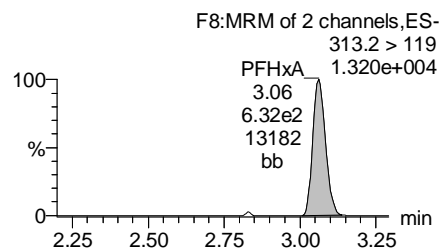
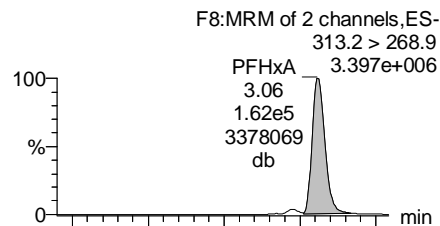
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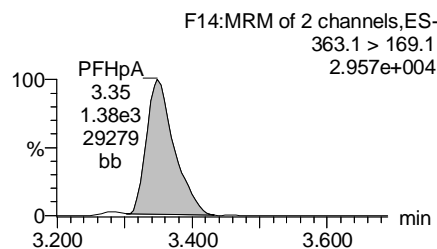
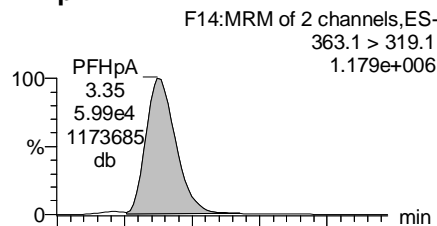
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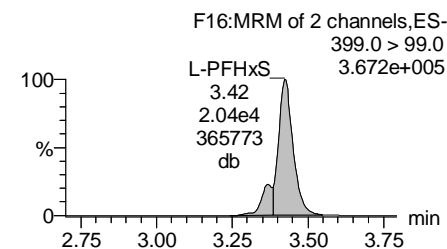
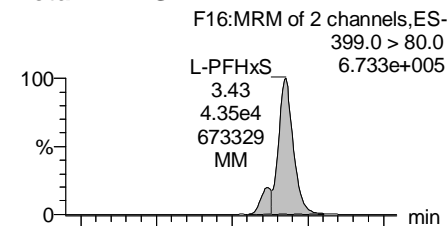
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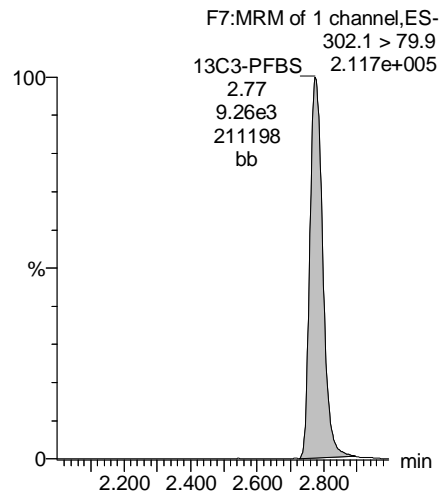
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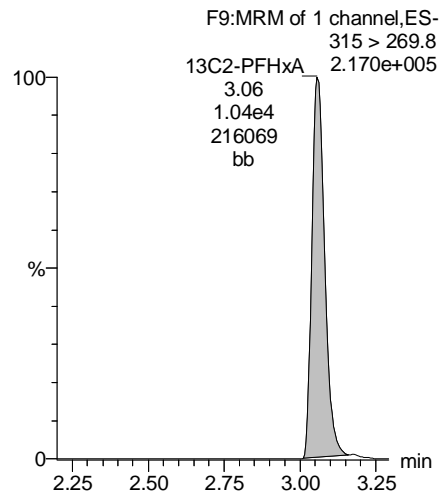
Total PFHxS



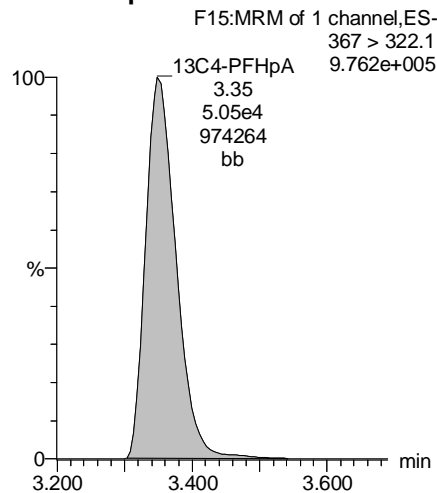
13C3-PFBS



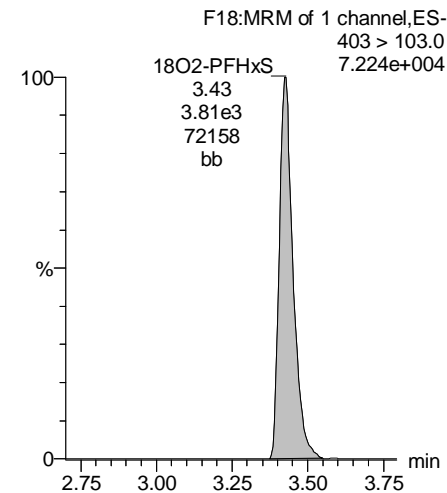
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-66.qld

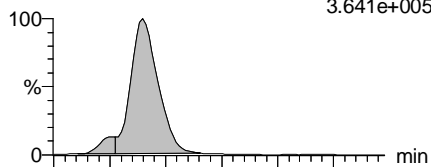
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Printed: Monday, October 02, 2017 13:10:49 Pacific Daylight Time

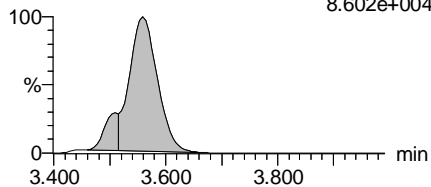
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Total PFOA

F19:MRM of 2 channels,ES-
413 > 368.7
3.641e+005

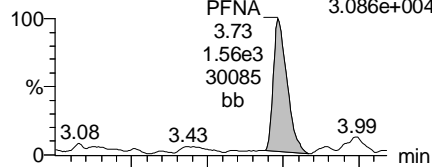


F19:MRM of 2 channels,ES-
413 > 169
8.602e+004

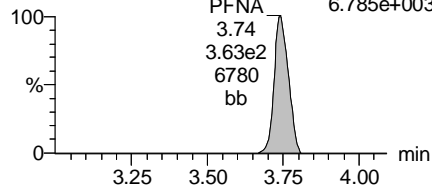


PFNA

F25:MRM of 2 channels,ES-
463.1 > 419.1
3.086e+004

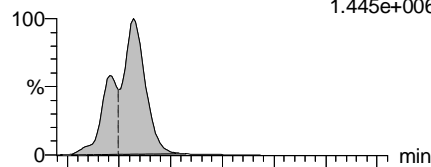


F25:MRM of 2 channels,ES-
463.1 > 219.1
6.785e+003

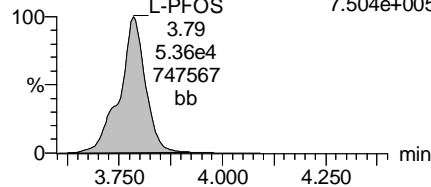


Total PFOS

F30:MRM of 2 channels,ES-
499 > 79.9
1.445e+006

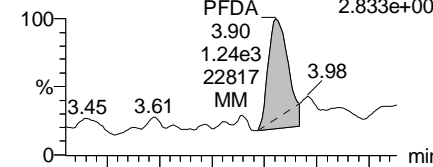


F30:MRM of 2 channels,ES-
499 > 99
7.504e+005

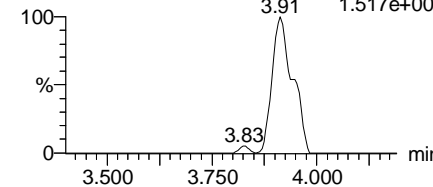


PFDA

F35:MRM of 2 channels,ES-
513 > 468.8
2.833e+004

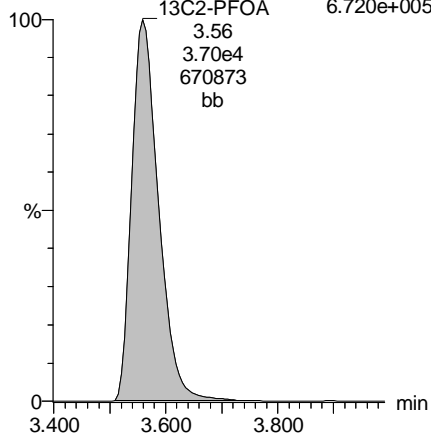


F35:MRM of 2 channels,ES-
513 > 219
1.517e+003



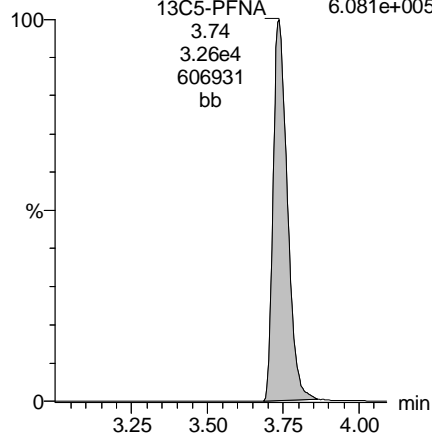
13C2-PFOA

F20:MRM of 1 channel,ES-
414.9 > 369.7
6.720e+005



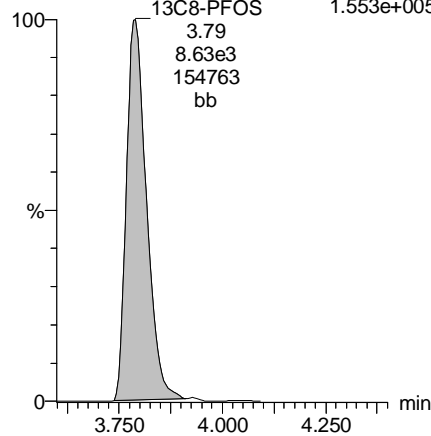
13C5-PFNA

F26:MRM of 1 channel,ES-
468.1 > 423.1
6.081e+005



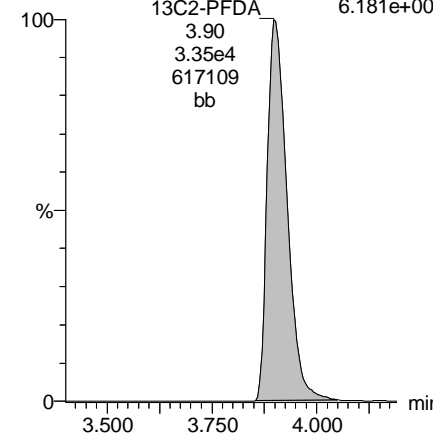
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.553e+005



13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
6.181e+005



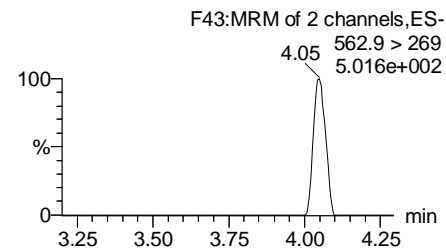
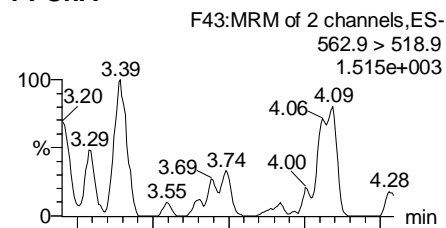
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Last Altered: Monday, October 02, 2017 13:09:18 Pacific Daylight Time

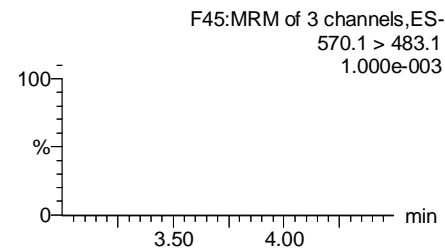
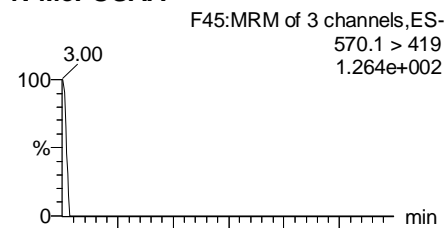
Printed: Monday, October 02, 2017 13:10:49 Pacific Daylight Time

Name: 170928M3_66, Date: 29-Sep-2017, Time: 05:20:30, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

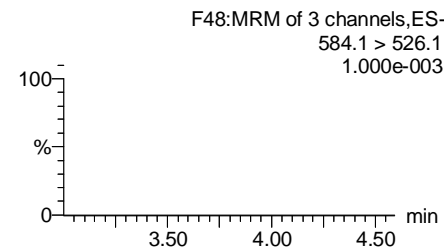
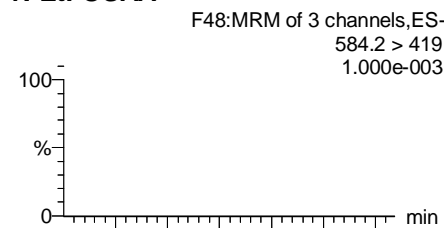
PFUnA



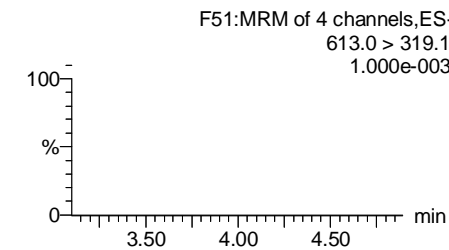
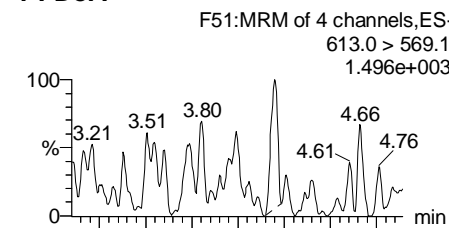
N-MeFOSAA



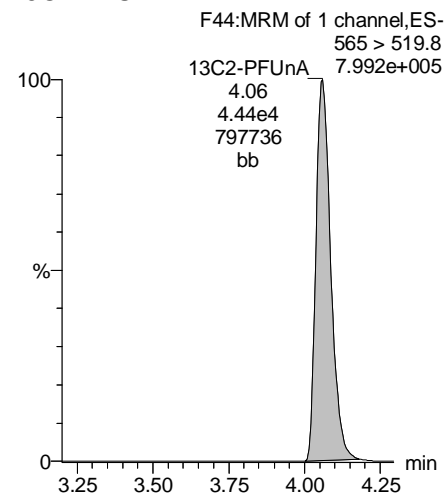
N-EtFOSAA



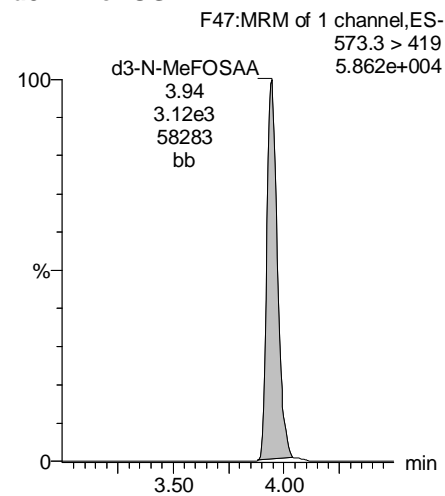
PFDaA



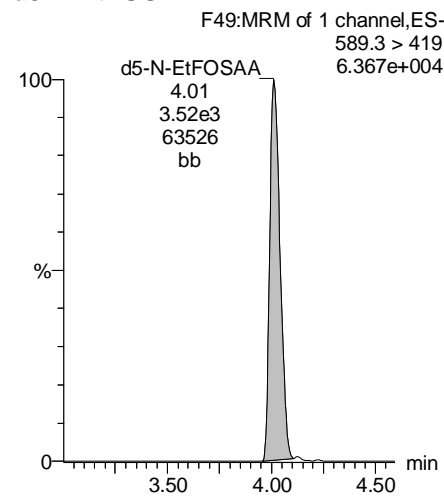
13C2-PFUnA



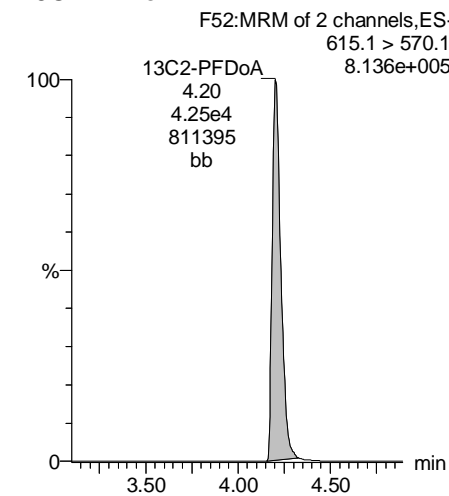
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



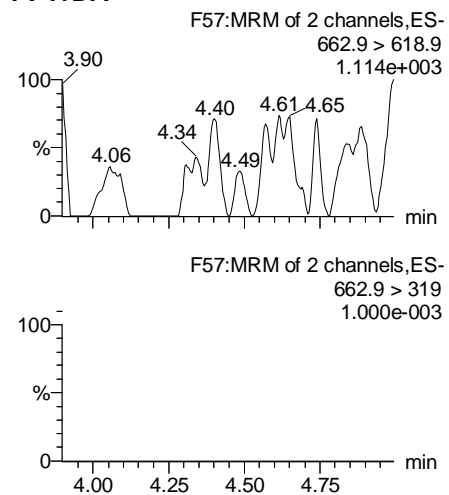
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Last Altered: Monday, October 02, 2017 13:09:18 Pacific Daylight Time

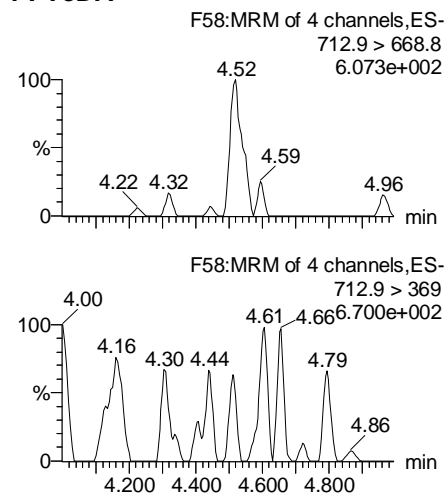
Printed: Monday, October 02, 2017 13:10:49 Pacific Daylight Time

Name: 170928M3_66, Date: 29-Sep-2017, Time: 05:20:30, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

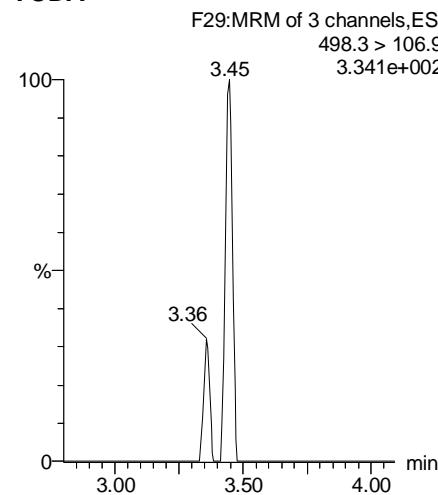
PFTrDA



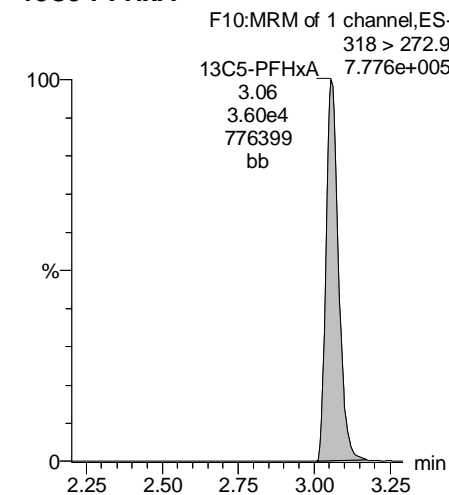
PFTeDA



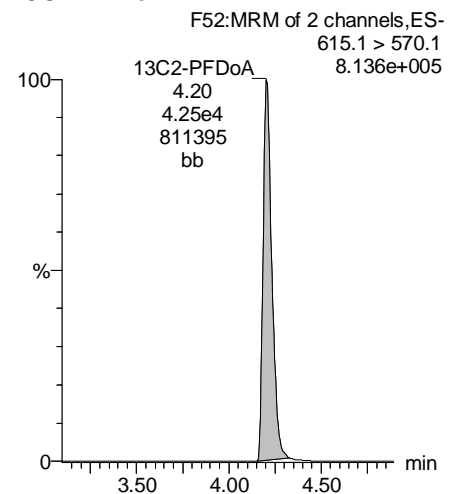
TCDA



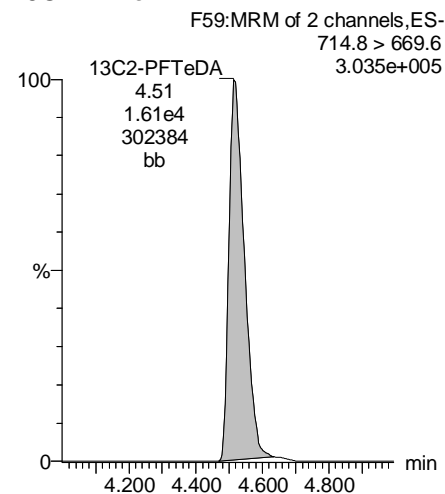
13C5-PFHxA



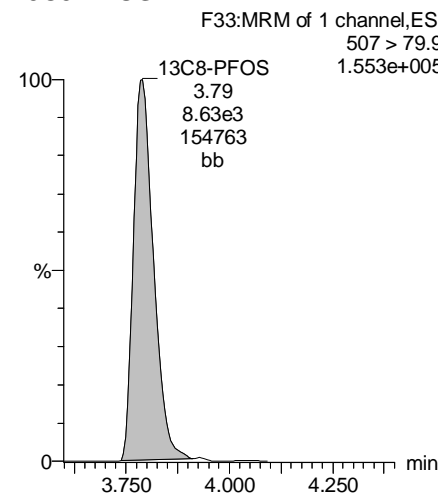
13C2-PFDoA



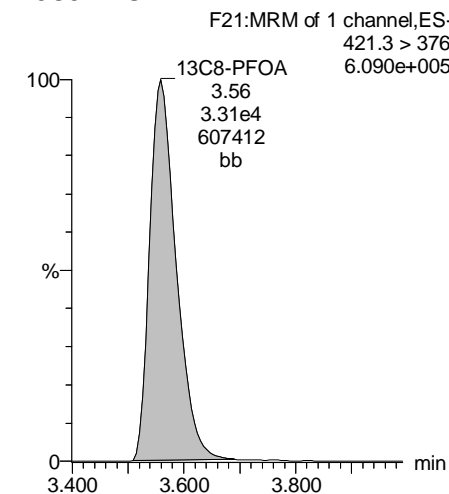
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



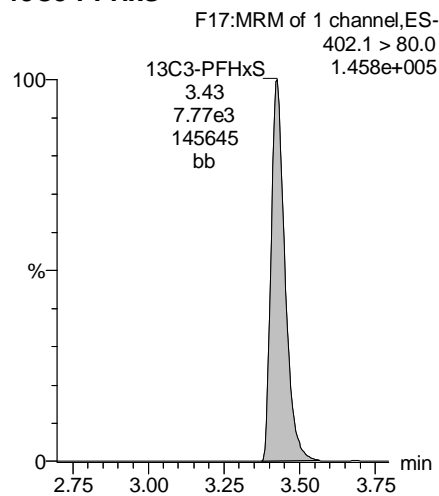
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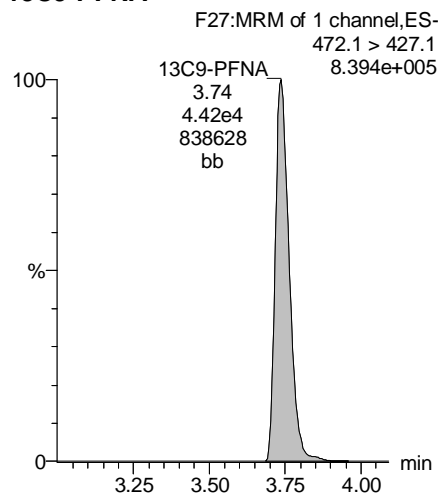
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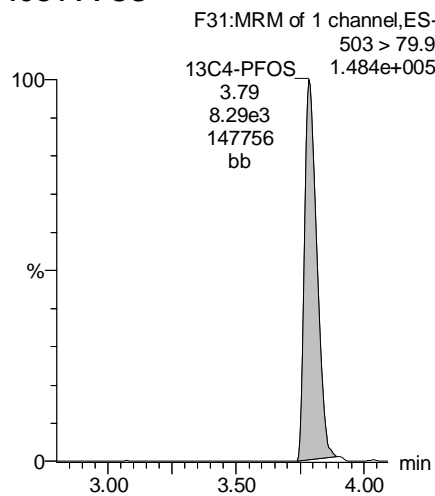
13C3-PFHxS



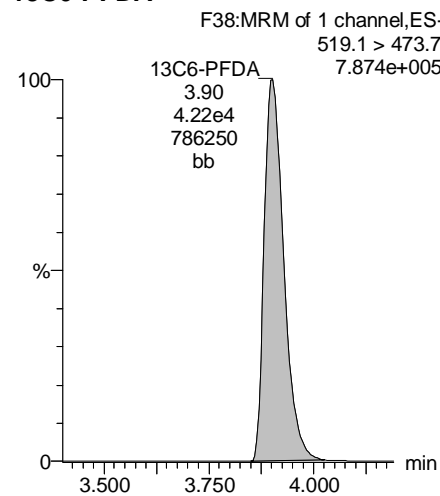
13C9-PFNA



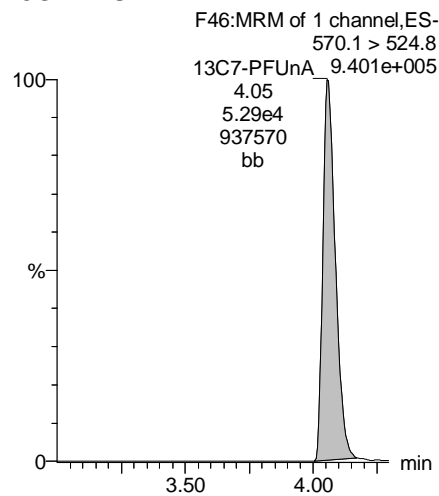
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-35.qld

Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:16:36 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.29e4	8.96e3	0.10498		3.17	3.14	18.0	164	
2	4 PFHxA	313.2 > 268.9	2.90e5	1.16e4	0.10498		3.37	3.37	124	770	
3	5 PFHpA	363.1 > 319.1	8.40e4	4.39e4	0.10498		3.63	3.62	23.9	223	
4	6 L-PFHxS	399.0 > 80.0	6.50e4	2.82e3	0.10498		3.71	3.69	288	1170	
5	9 L-PFOA	413 > 368.7	3.19e4	3.10e4	0.10498		3.84	3.83	12.8	113	
6	12 PFNA	463.1 > 419.1	3.88e3	2.41e4	0.10498		4.03	4.02	2.01	16.2	
7	14 L-PFOS	499 > 79.9	2.87e5	6.18e3	0.10498		4.08	4.08	581	4780 E	
8	16 PFDA	513 > 468.8	2.29e3	2.64e4	0.10498		4.21	4.20	1.08	5.70	
9	18 N-MeFOSAA	570.1 > 419		6.71e3	0.10498		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.28e3	0.10498		4.32				
11	20 PFUnA	562.9 > 518.9	1.63e2	2.82e4	0.10498		4.39	4.39	0.0723		
12	22 PFDoA	613.0 > 569.1		3.00e4	0.10498		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-35.qld

Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:16:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTeDA	662.9 > 618.9	3.00e4	0.10498		4.78				
2	25	PFTeDA	712.9 > 668.8	5.78e1	2.51e4	0.10498	4.99	4.97	0.0288	0.220	
3	31	13C3-PFBA	216.1 > 172.1	1.54e4	2.02e4	0.10498	0.890	1.88	1.84	9.52	85.7
4	32	13C3-PFPeA	266.1 > 222.1	2.94e4	3.74e4	0.10498	0.236	2.98	2.96	3.94	133.4
5	33	13C3-PFBS	302.1 > 79.9	8.96e3	3.74e4	0.10498	0.056	3.17	3.15	1.20	204
6	34	13C2-PFHxA	315 > 269.8	1.16e4	3.74e4	0.10498	0.283	3.37	3.37	1.56	52.3
7	35	13C4-PFHpA	367 > 322.1	4.39e4	3.74e4	0.10498	0.499	3.63	3.62	5.87	112
8	36	18O2-PFHxS	403 > 103.0	2.82e3	5.93e3	0.10498	0.482	3.71	3.70	5.94	117
9	37	13C2-6:2 FTS	429.1 > 408.9	8.55e3	2.88e4	0.10498	0.183	3.84	3.82	3.72	193
10	38	13C2-PFOA	414.9 > 369.7	3.10e4	2.88e4	0.10498	1.158	3.84	3.83	13.5	111
11	39	13C5-PFNA	468.1 > 423.1	2.41e4	3.73e4	0.10498	0.888	4.03	4.02	8.08	86.7
12	40	13C8-PFOSA	506.1 > 78.0	3.12e3	3.34e4	0.10498	0.143	4.04	4.03	1.17	78.0
13	41	13C8-PFOS	507 > 79.9	6.18e3	5.86e3	0.10498	1.013	4.08	4.08	13.2	124
14	42	13C2-PFDA	515.1 > 469.9	2.64e4	2.76e4	0.10498	0.876	4.21	4.20	12.0	131
15	43	13C2-8:2 FTS	529.1 > 508.7	4.57e3	2.76e4	0.10498	0.148	4.21	4.20	2.07	134
16	44	d3-N-MeFOSAA	573.3 > 419	6.71e3	3.34e4	0.10498	0.017	4.24	4.23	2.51	1400
17	45	d5-N-EtFOSAA	589.3 > 419	7.28e3	3.34e4	0.10498	0.019	4.32	4.30	2.72	1400
18	46	13C2-PFUnA	565 > 519.8	2.82e4	3.34e4	0.10498	0.959	4.39	4.38	10.5	105
19	47	13C2-PFDoA	615.1 > 570.1	3.00e4	3.34e4	0.10498	1.003	4.59	4.57	11.2	107
20	49	13C2-PFTeDA	714.8 > 669.6	2.51e4	3.34e4	0.10498	0.716	4.99	4.97	9.40	125
21	54	13C4-PFBA	217.1 > 172.1	2.02e4	2.02e4	0.10498	1.000	1.88	1.85	12.5	119
22	55	13C5-PFHxA	318 > 272.9	3.74e4	3.74e4	0.10498	1.000	3.37	3.37	5.00	47.6
23	56	13C3-PFHxS	402.1 > 80.0	5.93e3	5.93e3	0.10498	1.000	3.71	3.69	12.5	119
24	57	13C8-PFOA	421.3 > 376	2.88e4	2.88e4	0.10498	1.000	3.84	3.83	12.5	119
25	58	13C9-PFNA	472.1 > 427.1	3.73e4	3.73e4	0.10498	1.000	4.03	4.02	12.5	119
26	59	13C4-PFOS	503 > 79.9	5.86e3	5.86e3	0.10498	1.000	4.08	4.08	12.5	119
27	60	13C6-PFDA	519.1 > 473.7	2.76e4	2.76e4	0.10498	1.000	4.21	4.20	12.5	119
28	61	13C7-PFUnA	570.1 > 524.8	3.34e4	3.34e4	0.10498	1.000	4.39	4.37	12.5	119
29	62	Total PFHxS	399.0 > 80.0	6.50e4	2.82e3	0.10498		3.71		288	1170
30	63	Total PFOA	413 > 368.7	3.53e4	3.10e4	0.10498		3.84		14.2	123
31	64	Total PFOS	499 > 79.9	2.87e5	6.18e3	0.10498		4.08		581	4780
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.71e3	0.10498		4.24		0.000	

AC 9/27/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-35.qld

Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:16:50 Pacific Daylight Time

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.28e3	0.10498		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-35.qld

Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:16:36 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	64955.340	2816.878	288.242	MM	1170.4
2	7 Br-PFHxS	399.0 > 80.0			2816.878		MM-I	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	31862.410	31024.139	12.838	db	113.4
2	10 Br-PFOA	413 > 368.7	3.77	3391.703	31024.139	1.367	dd	9.6

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.08	287263.156	6181.352	580.907	MM	4783.2
2	15 Br-PFOS	499 > 79.9			6181.352		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-35.qld

Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

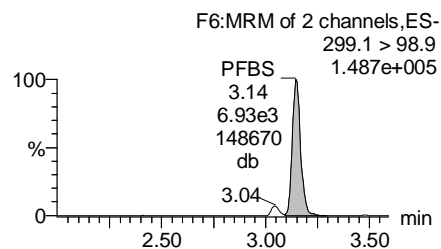
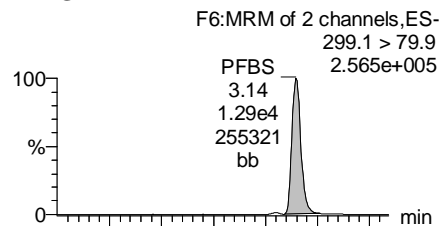
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

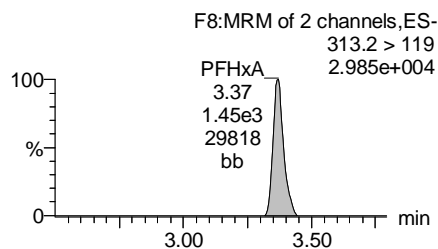
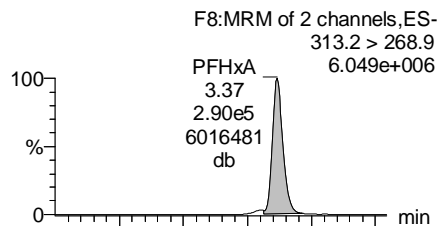
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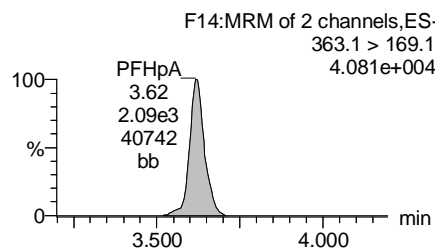
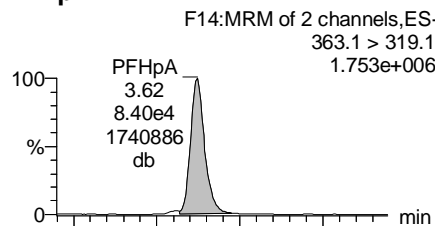
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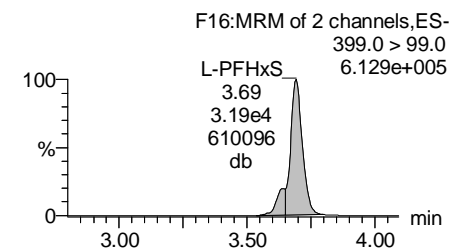
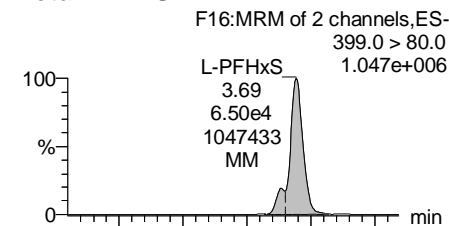
PFHxA



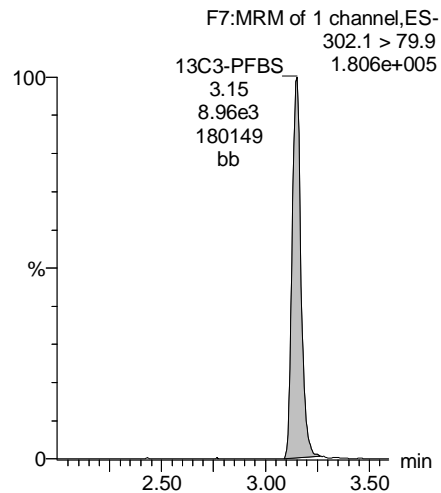
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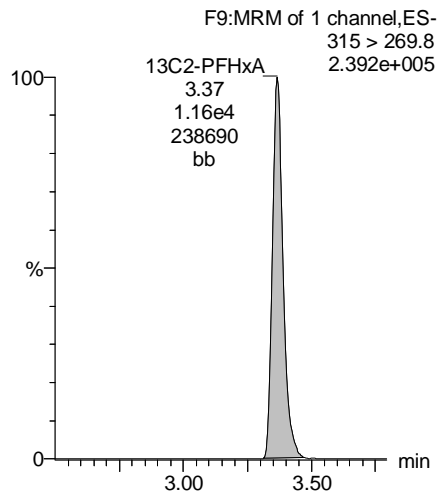
Total PFHxS



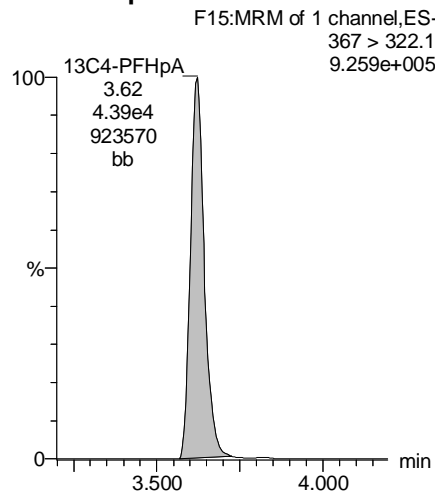
13C3-PFBS



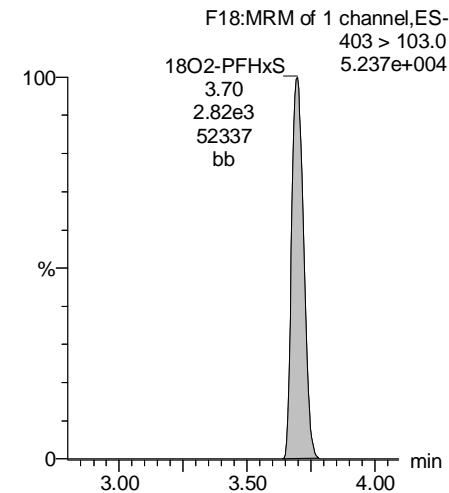
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



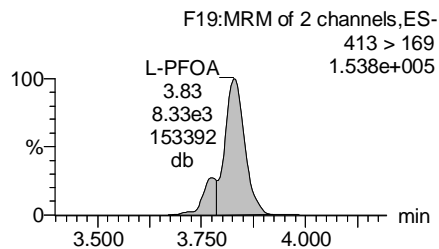
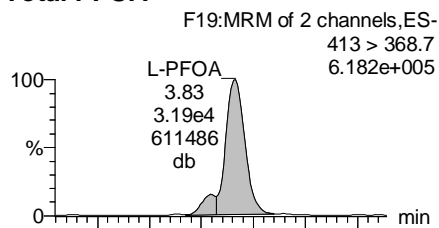
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Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

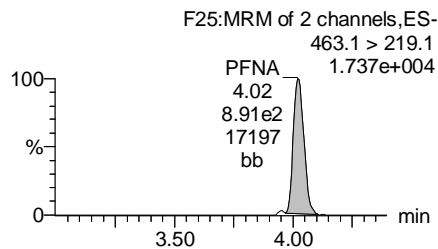
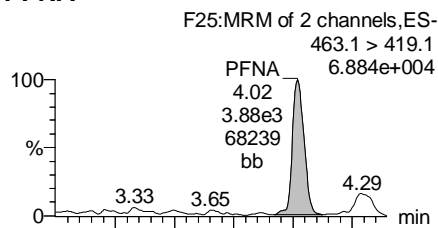
Printed: Wednesday, September 27, 2017 16:16:36 Pacific Daylight Time

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

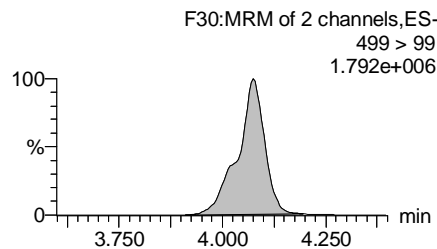
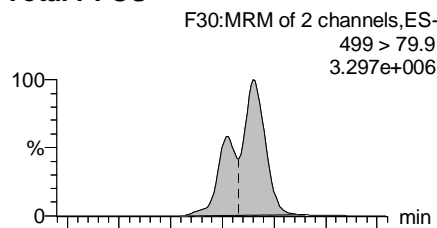
Total PFOA



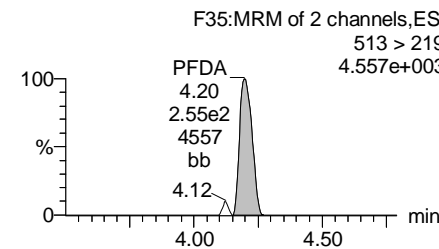
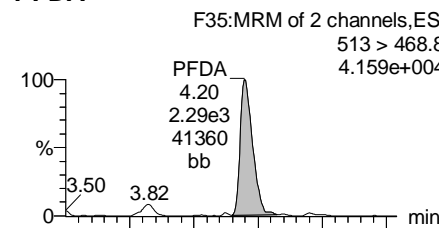
PFNA



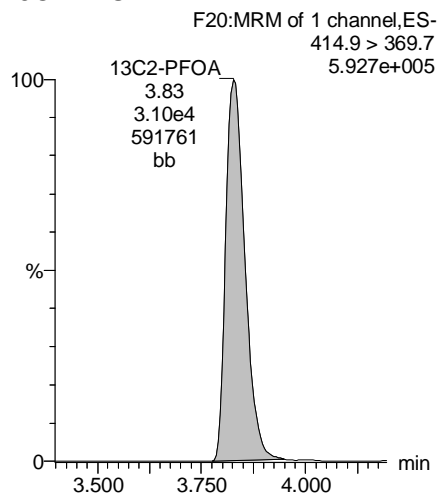
Total PFOS



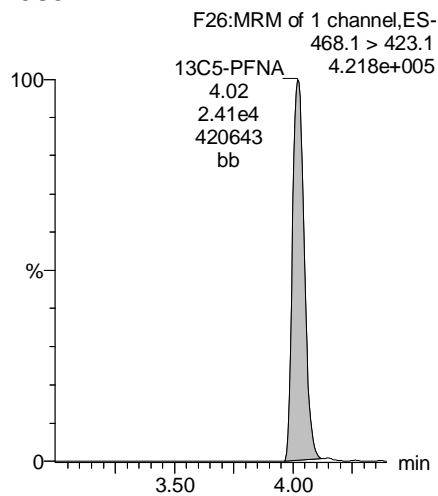
PFDA



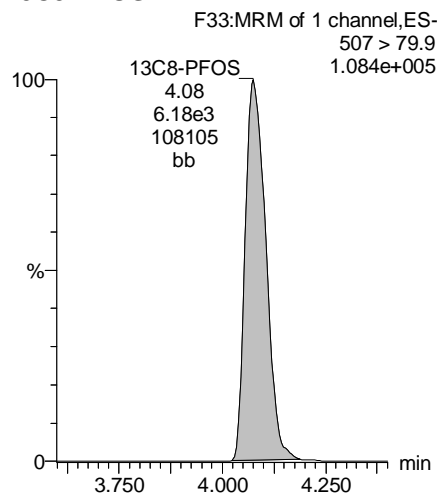
13C2-PFOA



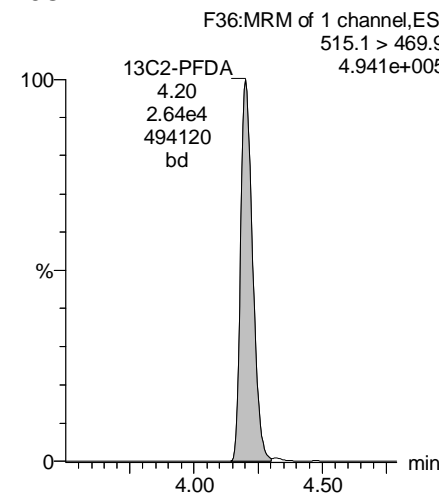
13C5-PFNA



13C8-PFOS



13C2-PFDA



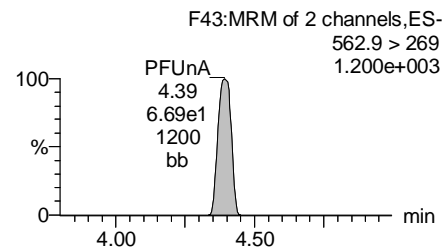
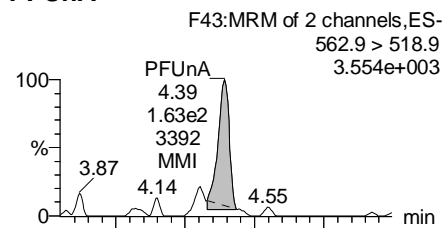
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Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

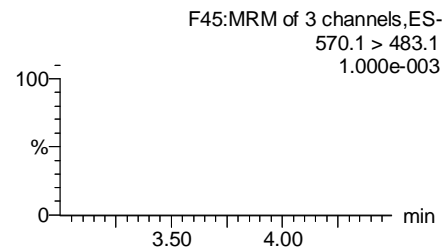
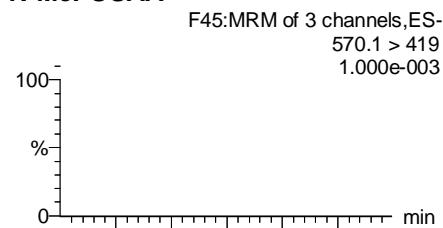
Printed: Wednesday, September 27, 2017 16:16:36 Pacific Daylight Time

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

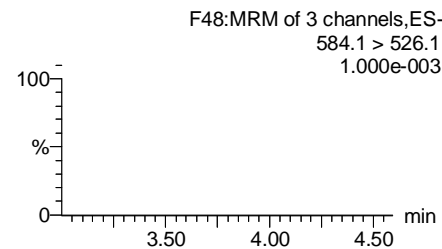
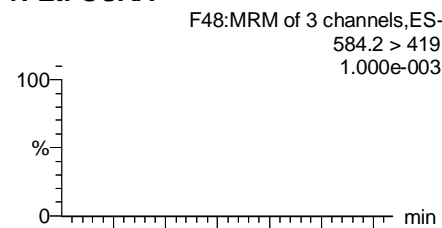
PFUnA



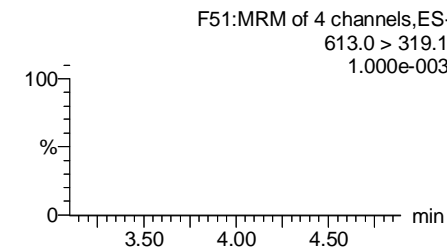
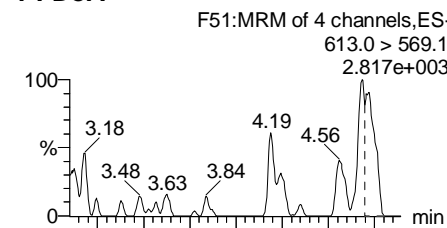
N-MeFOSAA



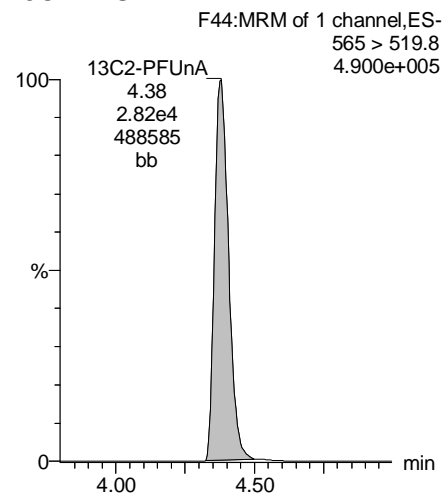
N-EtFOSAA



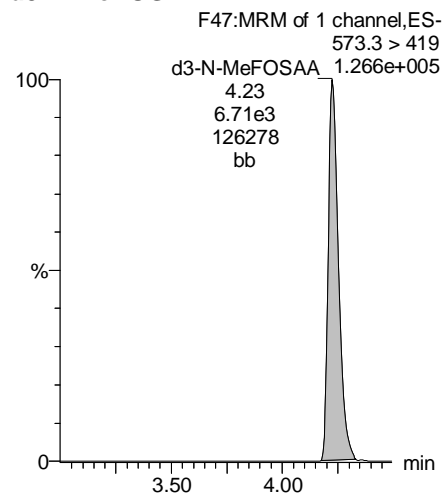
PFDaA



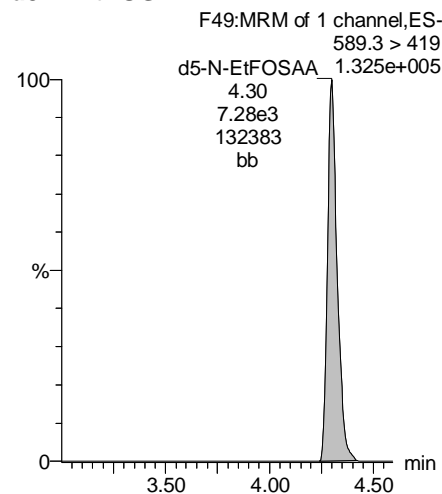
13C2-PFUnA



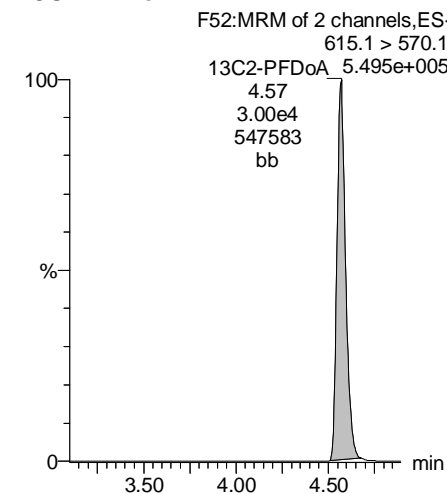
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



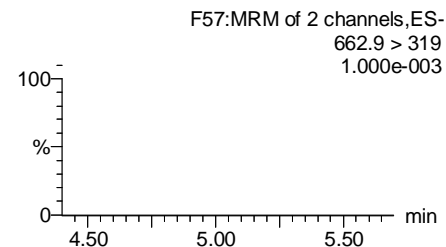
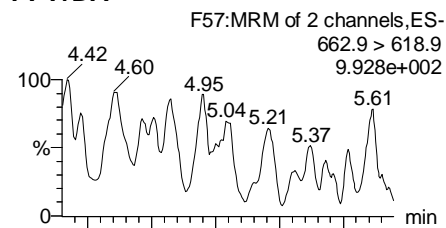
Dataset: U:\Q4.PRO\results\170926M1\170926M1-35.qld

Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

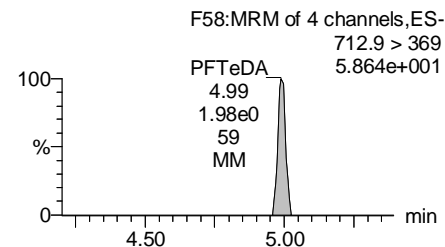
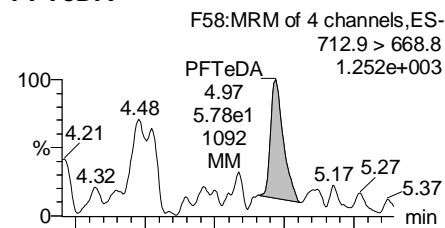
Printed: Wednesday, September 27, 2017 16:16:36 Pacific Daylight Time

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

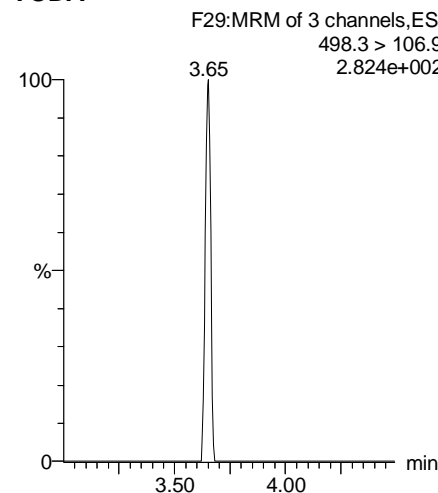
PFTrDA



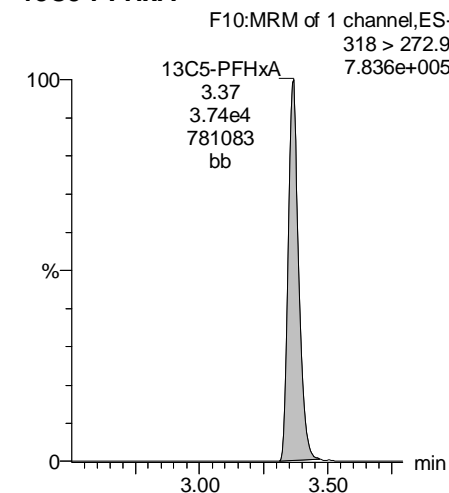
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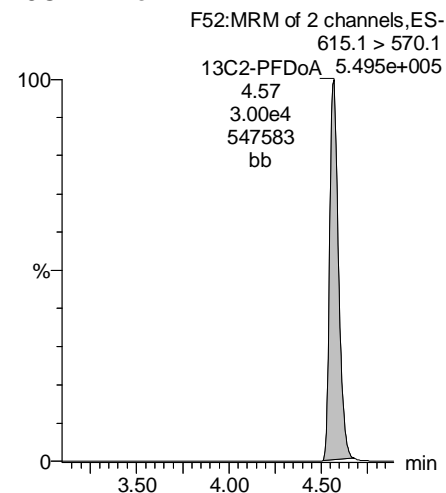
TCDA



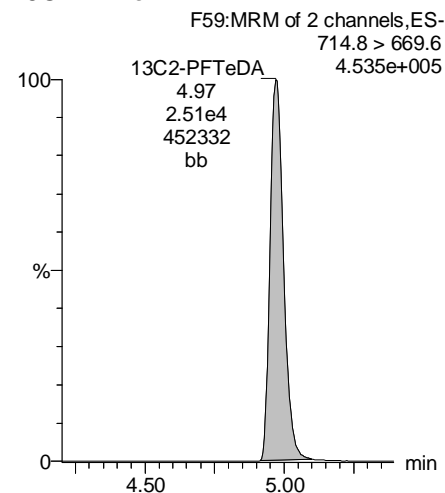
13C5-PFHxA



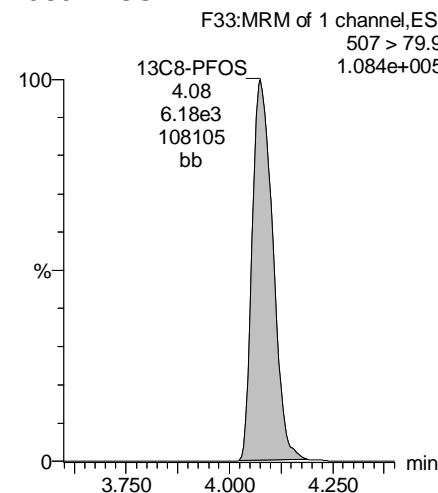
13C2-PFDoA



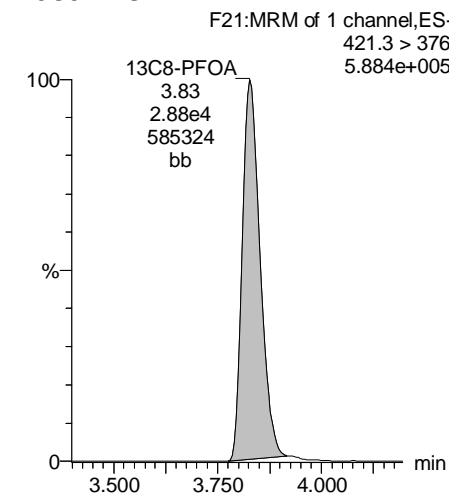
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



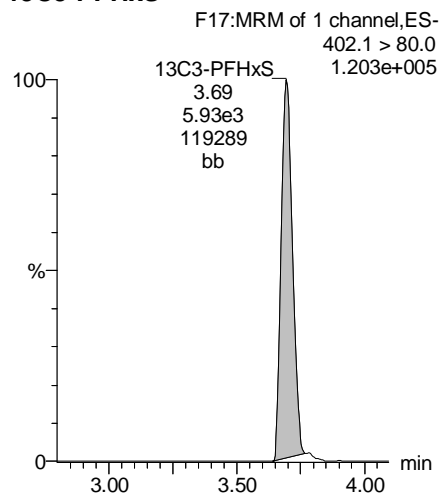
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Last Altered: Wednesday, September 27, 2017 16:14:37 Pacific Daylight Time

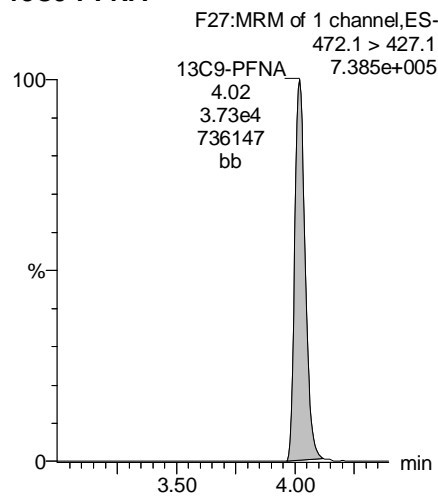
Printed: Wednesday, September 27, 2017 16:16:36 Pacific Daylight Time

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

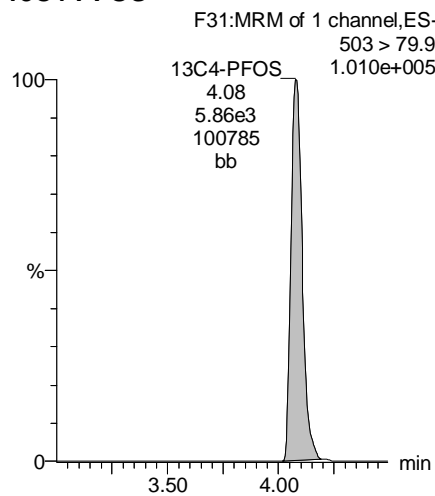
13C3-PFHxS



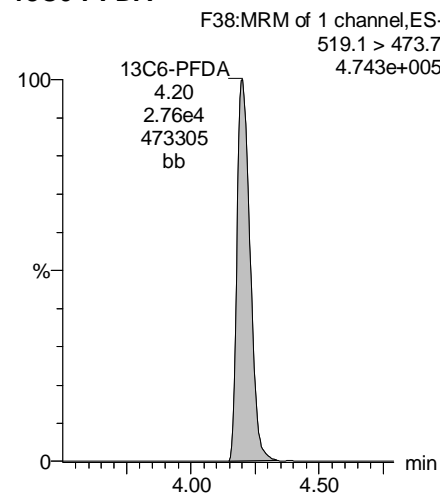
13C9-PFNA



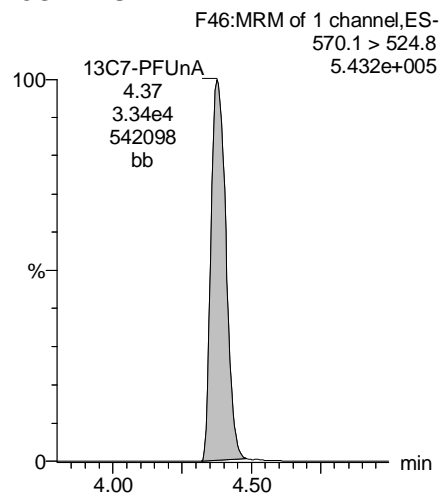
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-33.qld

Last Altered: Monday, October 02, 2017 16:20:43 Pacific Daylight Time

Printed: Monday, October 02, 2017 16:25:57 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_33, Date: 28-Sep-2017, Time: 15:13:52, ID: 1701279-04@5X MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	9 PFOS	499.0 >79.9	3.09e4	1.75e3	0.1050		4.66	4.67	221	4240	
2	20 13C8-PFOS	507.0 > 79.9	1.75e3	1.68e3	0.1050	0.943	4.67	4.66	13.0	131	110.3
3	26 13C4-PFOS	503.0 > 79.9	1.68e3	1.68e3	0.1050	1.000	4.71	4.67	12.5	119	100.0
4	30 Total PFOS	499.0 >79.9	3.09e4	1.75e3	0.1050		4.61		221	4240	

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-33.qld

Last Altered: Monday, October 02, 2017 16:20:43 Pacific Daylight Time

Printed: Monday, October 02, 2017 16:25:57 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_33, Date: 28-Sep-2017, Time: 15:13:52, ID: 1701279-04@5X MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

Total PFOS

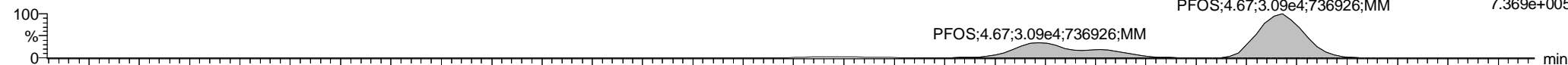
170928G1_33 Smooth(Mn,1x2)

MH-118.5N-20170918 1701279-04@5X MH-118.5N-20170918 0.125

F5:MRM of 12 channels,ES-

499.0 > 79.9

7.369e+005



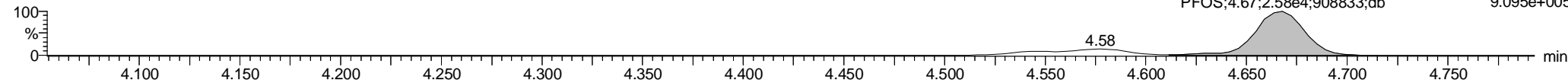
170928G1_33 Smooth(Mn,1x2)

MH-118.5N-20170918 1701279-04@5X MH-118.5N-20170918 0.125

F5:MRM of 12 channels,ES-

499 > 98.8

9.095e+005



13C8-PFOS

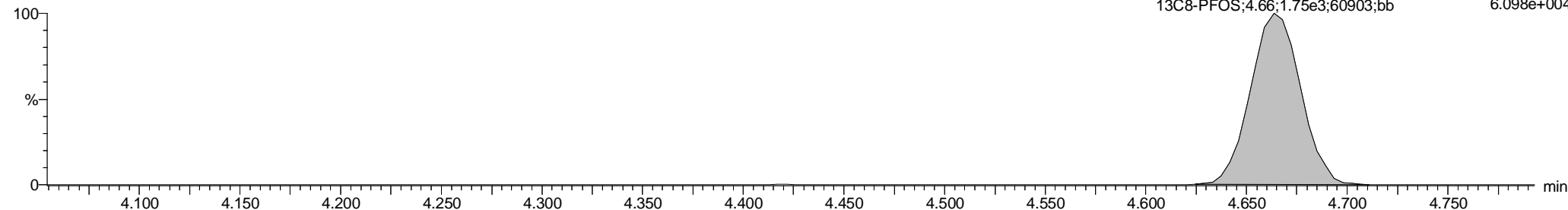
170928G1_33 Smooth(Mn,1x2)

MH-118.5N-20170918 1701279-04@5X MH-118.5N-20170918 0.125

F5:MRM of 12 channels,ES-

507.0 > 79.9

6.098e+004



13C4-PFOS

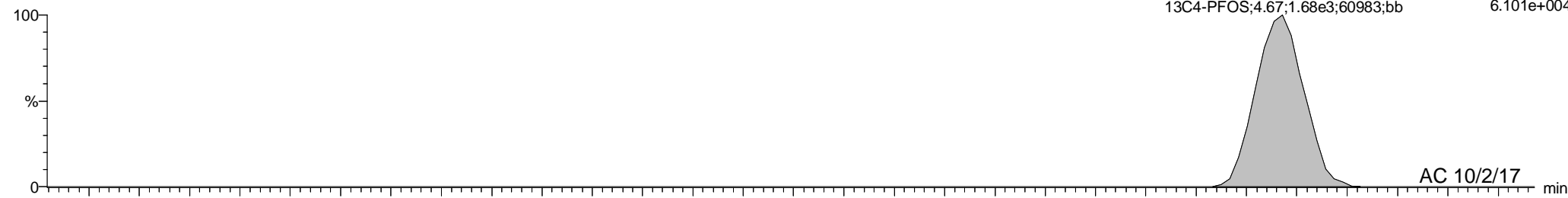
170928G1_33 Smooth(Mn,1x2)

MH-118.5N-20170918 1701279-04@5X MH-118.5N-20170918 0.125

F5:MRM of 12 channels,ES-

503.0 > 79.9

6.101e+004



Dataset: U:\Q4.PRO\results\170926M1\170926M1-36.qld

Last Altered: Monday, October 02, 2017 13:35:23 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:35:57 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.30e2	8.24e3	0.11271		3.17	3.15	0.197	1.94	
2	4 PFHxA	313.2 > 268.9	4.66e4	1.07e4	0.11271		3.37	3.37	21.7	125	
3	5 PFHpA	363.1 > 319.1	2.68e4	4.77e4	0.11271		3.63	3.62	7.03	60.8	
4	6 L-PFHxS	399.0 > 80.0	9.48e2	3.11e3	0.11271		3.71	3.69	3.81	14.3	
5	9 L-PFOA	413 > 368.7	4.90e3	3.28e4	0.11271		3.84	3.83	1.87	13.2	
6	12 PFNA	463.1 > 419.1	9.62e2	2.93e4	0.11271		4.03	4.02	0.410	2.13	
7	14 L-PFOS	499 > 79.9	1.05e3	7.27e3	0.11271		4.08	4.01	1.81	14.5	
8	16 PFDA	513 > 468.8		2.22e4	0.11271		4.21				
9	18 N-MeFOSAA	570.1 > 419		6.68e3	0.11271		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.01e3	0.11271		4.32				
11	20 PFUnA	562.9 > 518.9	1.57e2	2.85e4	0.11271		4.39	4.37	0.0686		
12	22 PFDoA	613.0 > 569.1		2.83e4	0.11271		4.59				

See RI

Dataset: U:\Q4.PRO\results\170926M1\170926M1-36.qld

Last Altered: Monday, October 02, 2017 13:35:23 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:36:22 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	2.83e4	0.11271		4.78				
2	25	PFTeDA	712.9 > 668.8	2.44e4	0.11271		4.99				
3	31	13C3-PFBA	216.1 > 172.1	2.13e4	2.33e4	0.11271	0.890	1.88	1.84	11.4	102.8
4	32	13C3-PFPeA	266.1 > 222.1	3.07e4	3.41e4	0.11271	0.236	2.98	2.97	4.50	152.4
5	33	13C3-PFBS	302.1 > 79.9	8.24e3	3.41e4	0.11271	0.056	3.17	3.15	1.21	192
6	34	13C2-PFHxA	315 > 269.8	1.07e4	3.41e4	0.11271	0.283	3.37	3.37	1.57	49.1
7	35	13C4-PFHpA	367 > 322.1	4.77e4	3.41e4	0.11271	0.499	3.63	3.62	6.99	124
8	36	18O2-PFHxS	403 > 103.0	3.11e3	5.59e3	0.11271	0.482	3.71	3.69	6.95	128
9	37	13C2-6:2 FTS	429.1 > 408.9	5.39e3	2.95e4	0.11271	0.183	3.84	3.82	2.28	111
10	38	13C2-PFOA	414.9 > 369.7	3.28e4	2.95e4	0.11271	1.158	3.84	3.83	13.9	107
11	39	13C5-PFNA	468.1 > 423.1	2.93e4	3.70e4	0.11271	0.888	4.03	4.02	9.88	98.7
12	40	13C8-PFOA	506.1 > 78.0	3.01e3	3.83e4	0.11271	0.143	4.04	4.02	0.982	61.0
13	41	13C8-PFOS	507 > 79.9	7.27e3	7.12e3	0.11271	1.013	4.08	4.08	12.8	112
14	42	13C2-PFDA	515.1 > 469.9	2.22e4	3.42e4	0.11271	0.876	4.21	4.20	8.13	82.4
15	43	13C2-8:2 FTS	529.1 > 508.7	4.09e3	3.42e4	0.11271	0.148	4.21	4.20	1.50	89.9
16	44	d3-N-MeFOSAA	573.3 > 419	6.68e3	3.83e4	0.11271	0.017	4.24	4.23	2.18	1130
17	45	d5-N-EtFOSAA	589.3 > 419	7.01e3	3.83e4	0.11271	0.019	4.32	4.30	2.29	1090
18	46	13C2-PFUnA	565 > 519.8	2.85e4	3.83e4	0.11271	0.959	4.39	4.38	9.31	86.1
19	47	13C2-PFDoA	615.1 > 570.1	2.83e4	3.83e4	0.11271	1.003	4.59	4.57	9.22	81.6
20	49	13C2-PFTeDA	714.8 > 669.6	2.44e4	3.83e4	0.11271	0.716	4.99	4.97	7.97	98.7
21	54	13C4-PFBA	217.1 > 172.1	2.33e4	2.33e4	0.11271	1.000	1.88	1.84	12.5	111
22	55	13C5-PFHxA	318 > 272.9	3.41e4	3.41e4	0.11271	1.000	3.37	3.37	5.00	44.4
23	56	13C3-PFHxS	402.1 > 80.0	5.59e3	5.59e3	0.11271	1.000	3.71	3.70	12.5	111
24	57	13C8-PFOA	421.3 > 376	2.95e4	2.95e4	0.11271	1.000	3.84	3.83	12.5	111
25	58	13C9-PFNA	472.1 > 427.1	3.70e4	3.70e4	0.11271	1.000	4.03	4.02	12.5	111
26	59	13C4-PFOS	503 > 79.9	7.12e3	7.12e3	0.11271	1.000	4.08	4.08	12.5	111
27	60	13C6-PFDA	519.1 > 473.7	3.42e4	3.42e4	0.11271	1.000	4.21	4.20	12.5	111
28	61	13C7-PFUnA	570.1 > 524.8	3.83e4	3.83e4	0.11271	1.000	4.39	4.37	12.5	111
29	62	Total PFHxS	399.0 > 80.0	9.48e2	3.11e3	0.11271		3.71		3.81	14.3
30	63	Total PFOA	413 > 368.7	4.90e3	3.28e4	0.11271		3.84		1.87	13.2
31	64	Total PFOS	499 > 79.9	1.05e3	7.27e3	0.11271		4.08		1.81	14.5
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.68e3	0.11271		4.24		0.000	

AC 10/2/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-36.qld

Last Altered: Monday, October 02, 2017 13:35:23 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:36:22 Pacific Daylight Time

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.01e3	0.11271		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-36.qld

Last Altered: Monday, October 02, 2017 13:35:23 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:35:57 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	948.268	3109.603	3.812	bb	14.3

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	4902.318	32794.941	1.869	bb	13.2

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.01	1051.967	7271.982	1.808	MM	14.5
2	15 Br-PFOS	499 > 79.9			7271.982		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-36.qld

Last Altered: Monday, October 02, 2017 13:35:23 Pacific Daylight Time

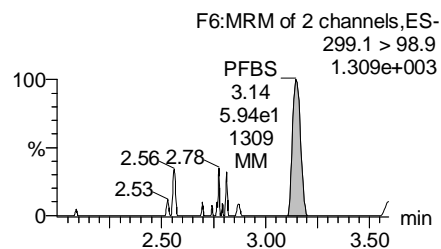
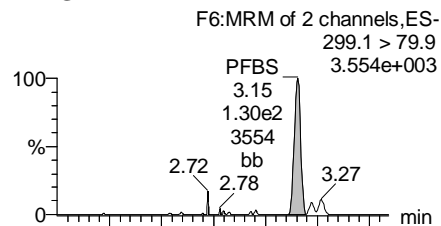
Printed: Monday, October 02, 2017 13:35:57 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

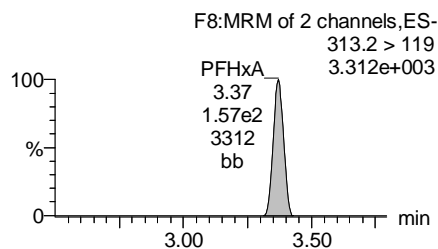
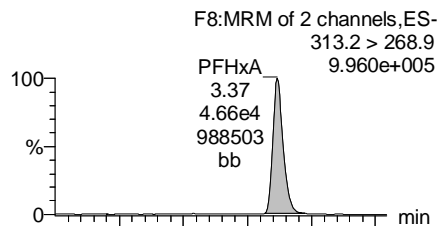
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

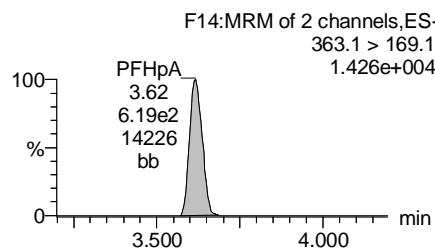
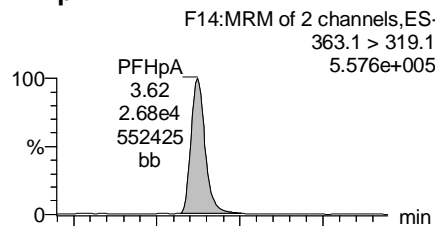
PFBS



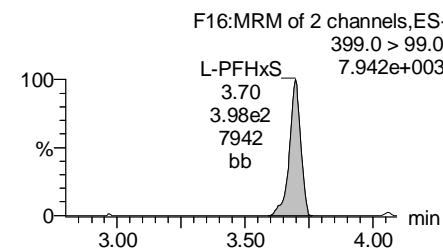
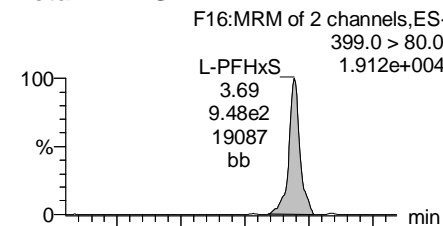
PFHxA



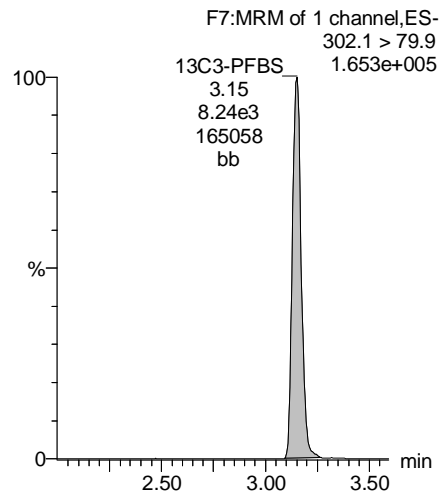
PFHpA



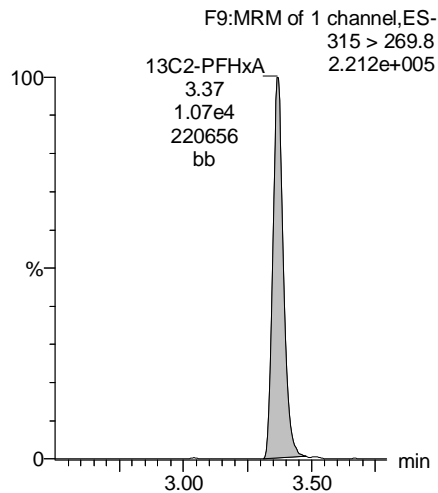
Total PFHxS



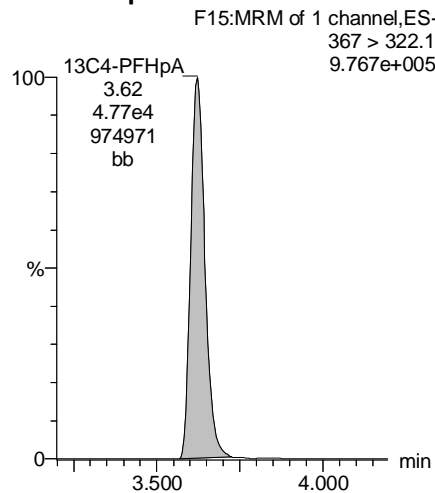
13C3-PFBS



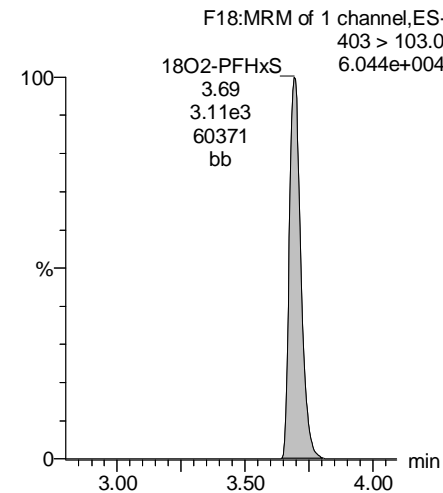
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



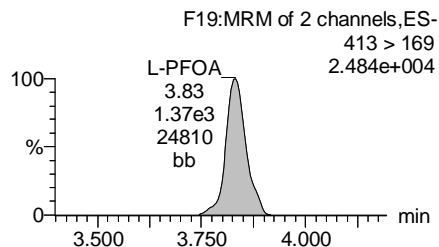
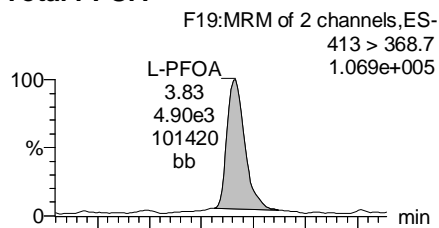
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Last Altered: Monday, October 02, 2017 13:35:23 Pacific Daylight Time

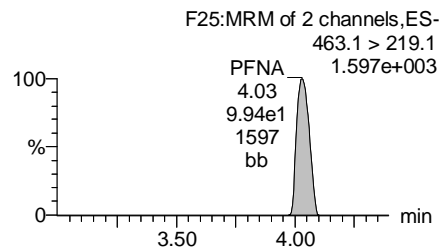
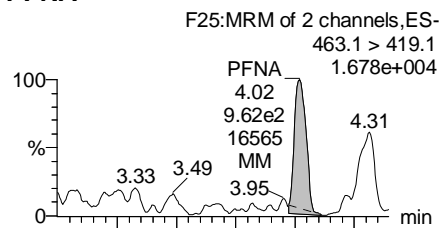
Printed: Monday, October 02, 2017 13:35:57 Pacific Daylight Time

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

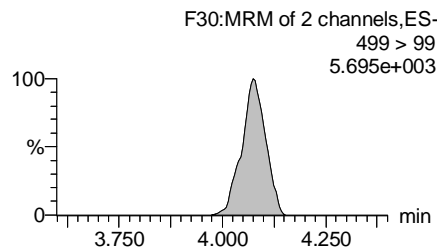
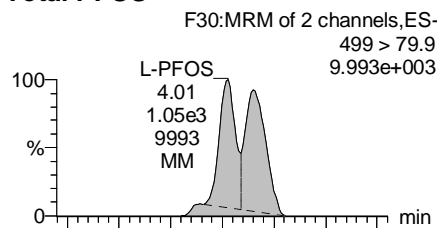
Total PFOA



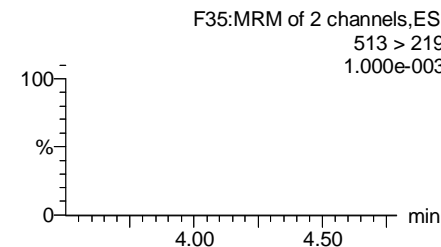
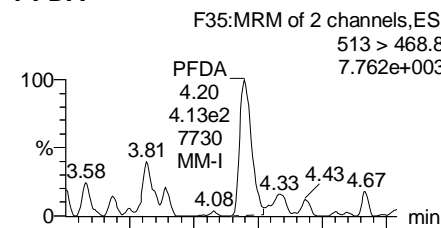
PFNA



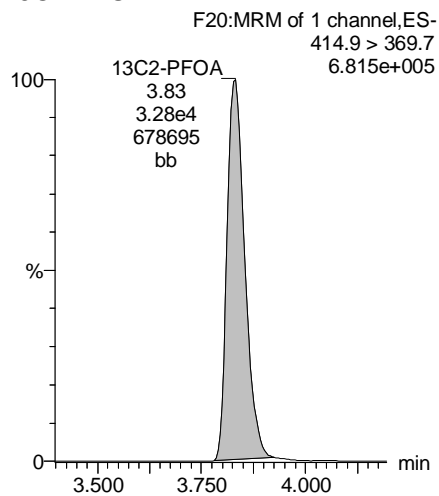
Total PFOS



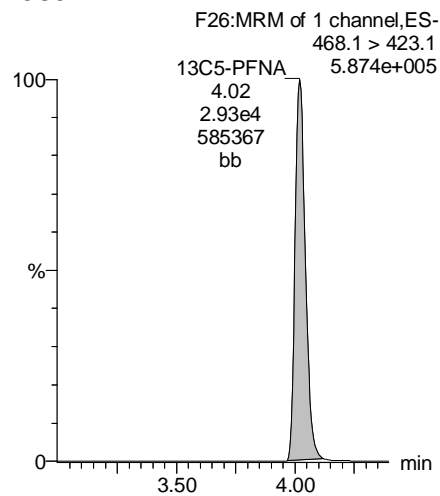
PFDA



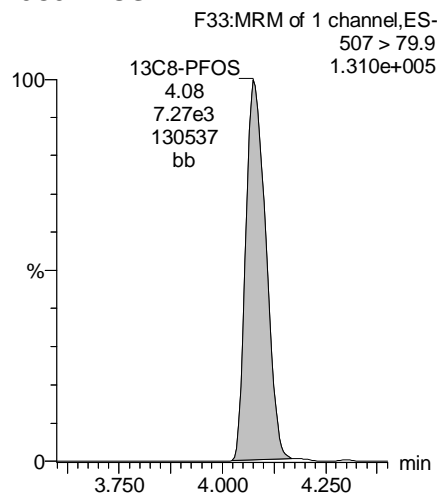
13C2-PFOA



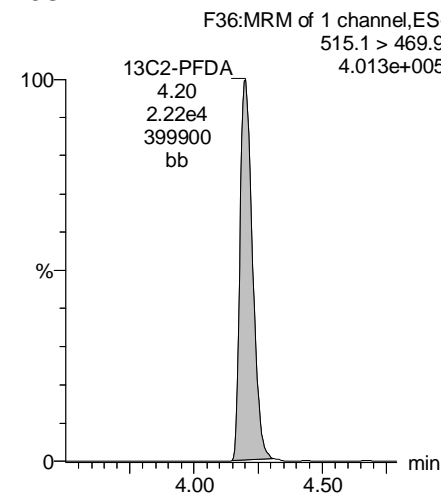
13C5-PFNA



13C8-PFOS



13C2-PFDA



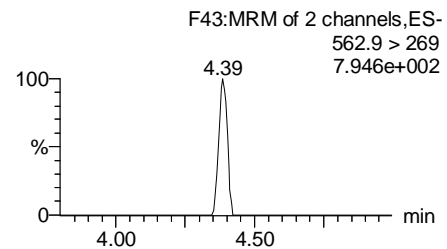
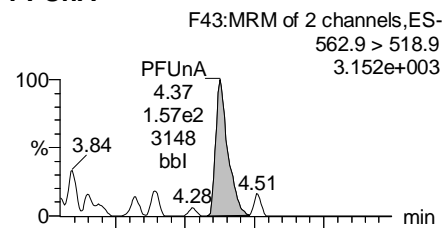
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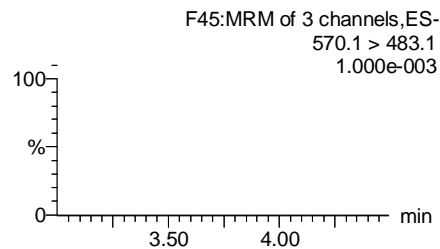
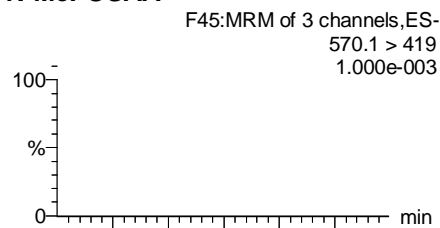
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Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

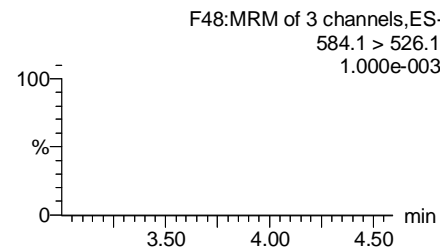
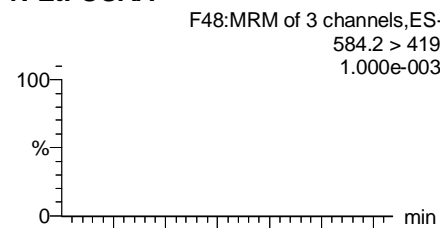
PFUnA



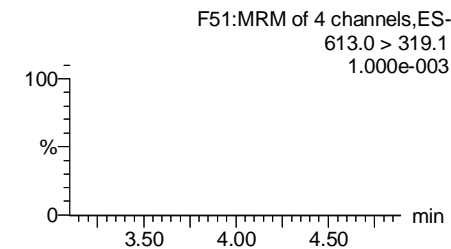
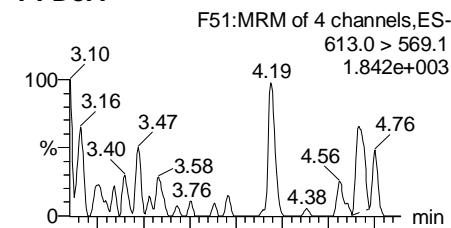
N-MeFOSAA



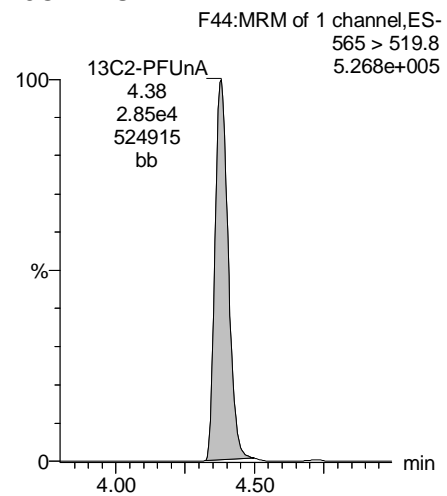
N-EtFOSAA



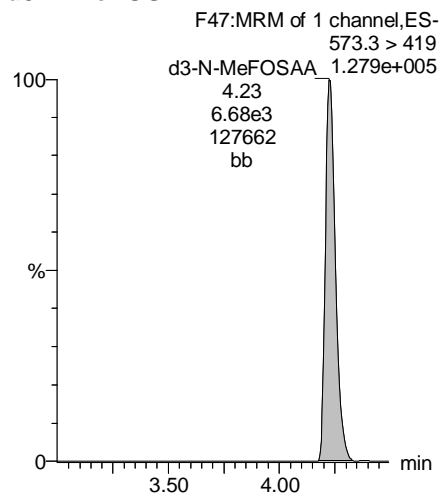
PFDaA



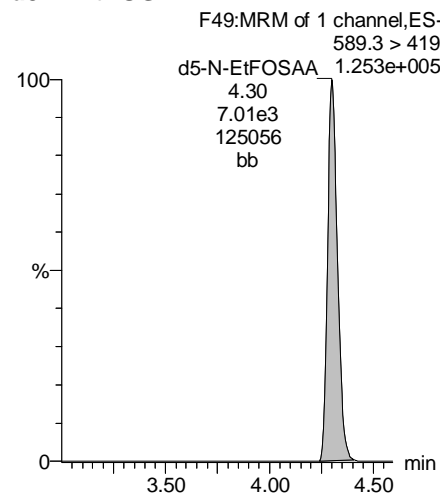
13C2-PFUnA



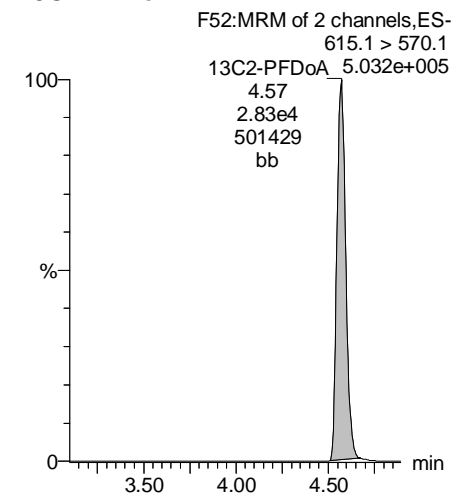
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



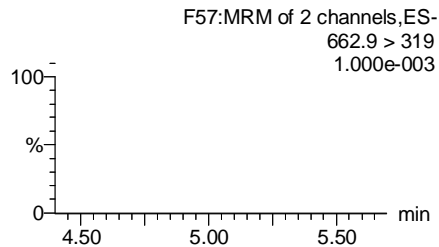
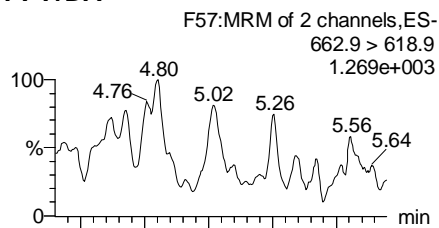
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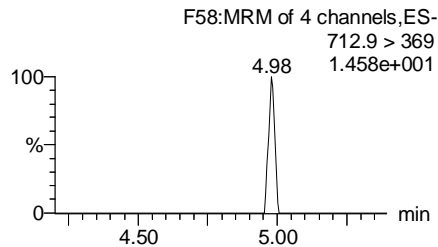
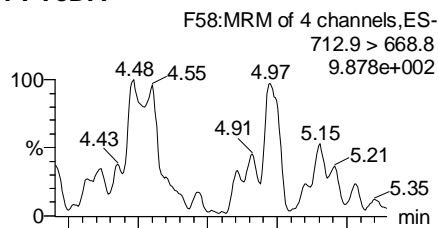
Printed: Monday, October 02, 2017 13:35:57 Pacific Daylight Time

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

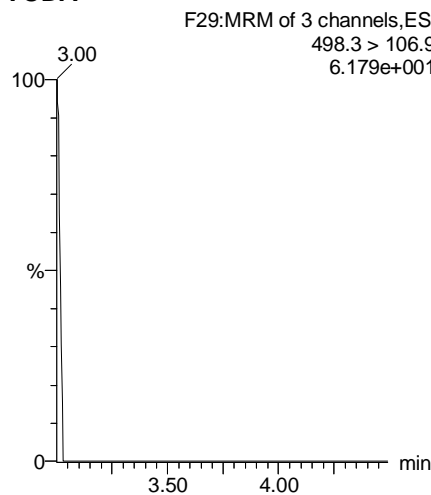
PFTrDA



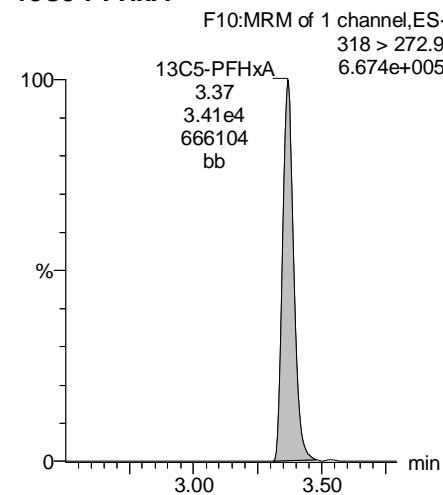
PFTeDA



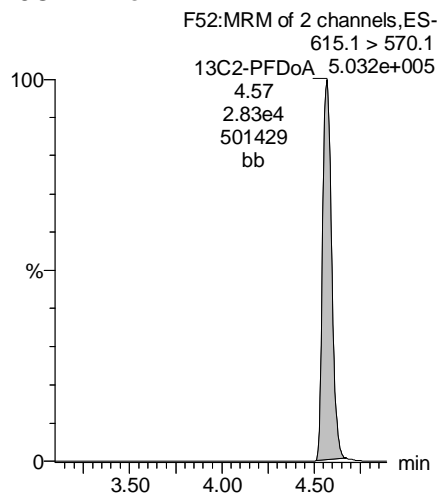
TCDA



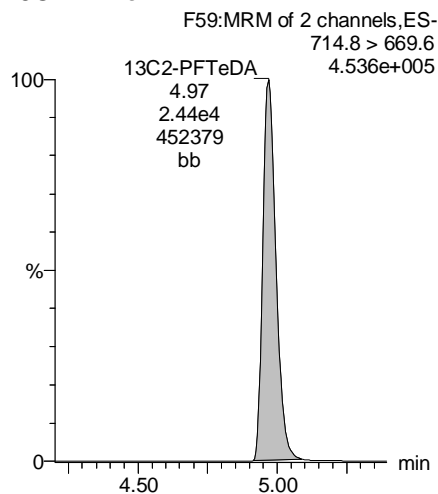
13C5-PFHxA



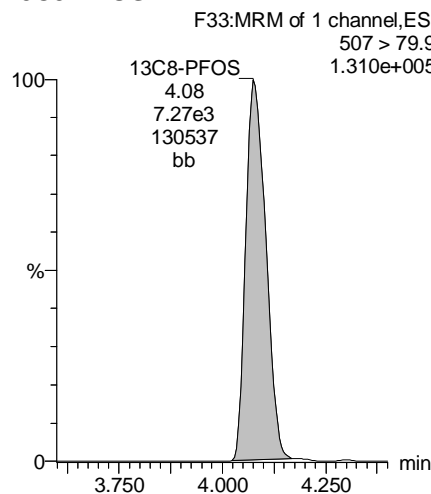
13C2-PFDoA



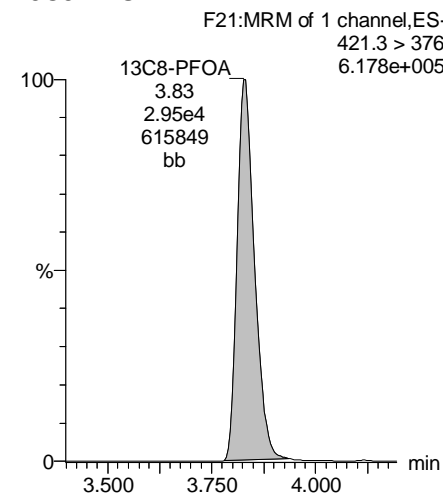
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



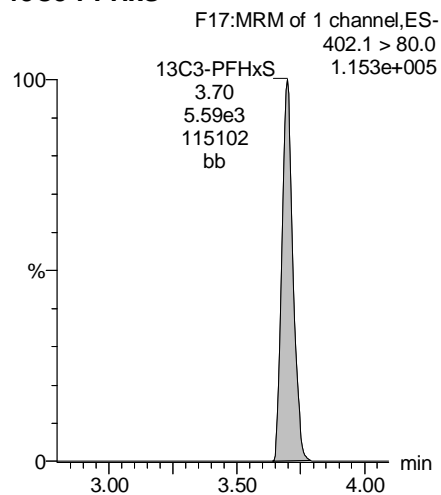
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Last Altered: Monday, October 02, 2017 13:35:23 Pacific Daylight Time

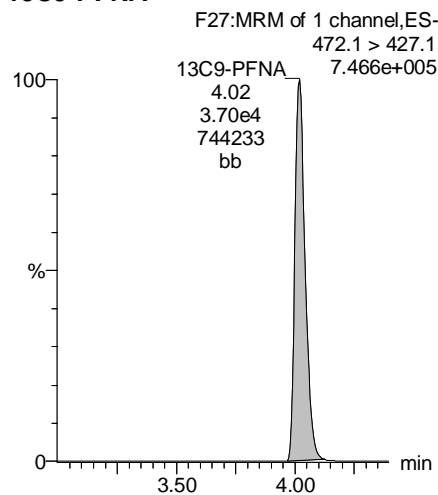
Printed: Monday, October 02, 2017 13:35:57 Pacific Daylight Time

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

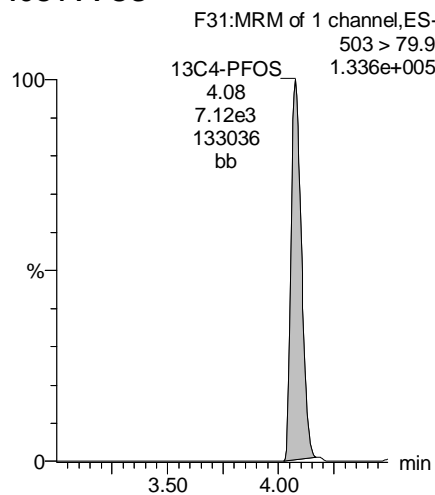
13C3-PFHxS



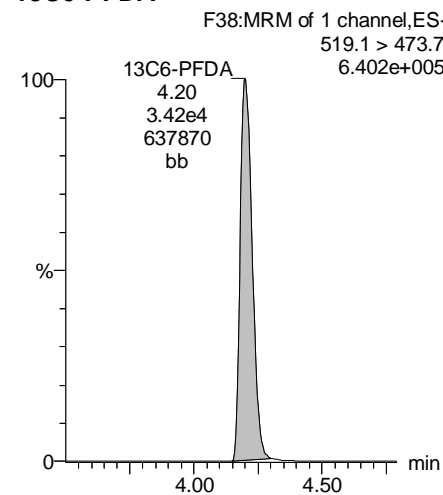
13C9-PFNA



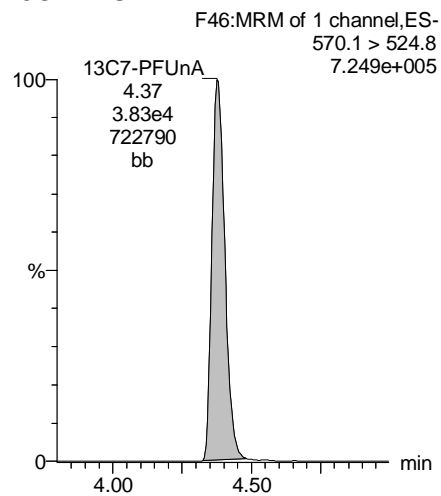
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-31.qld

Last Altered: Monday, October 02, 2017 16:28:09 Pacific Daylight Time

Printed: Monday, October 02, 2017 16:29:28 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_31, Date: 28-Sep-2017, Time: 14:48:43, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	9 PFOS	499.0 >79.9	6.78e2	1.11e4	0.1127		4.66	4.66	0.760	13.2	
2	20 13C8-PFOS	507.0 > 79.9	1.11e4	1.14e4	0.1127	0.943	4.66	4.66	12.2	115	103.6
3	26 13C4-PFOS	503.0 > 79.9	1.14e4	1.14e4	0.1127	1.000	4.71	4.66	12.5	111	100.0
4	30 Total PFOS	499.0 >79.9	6.78e2	1.11e4	0.1127		4.61		0.760	13.2	

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-31.qld

Last Altered: Monday, October 02, 2017 16:28:09 Pacific Daylight Time

Printed: Monday, October 02, 2017 16:29:28 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

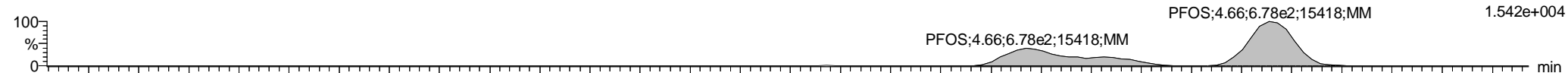
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_31, Date: 28-Sep-2017, Time: 14:48:43, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

Total PFOS

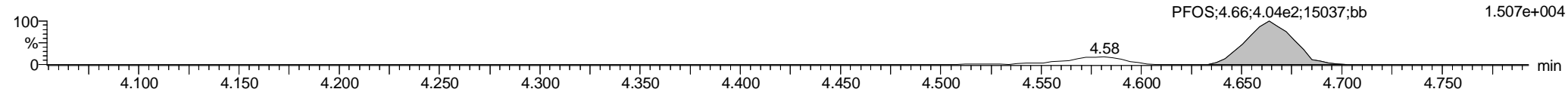
170928G1_31 Smooth(Mn,1x2)

MH-118.5T-20170918 1701279-05 MH-118.5T-20170918 0.125



170928G1_31 Smooth(Mn,1x2)

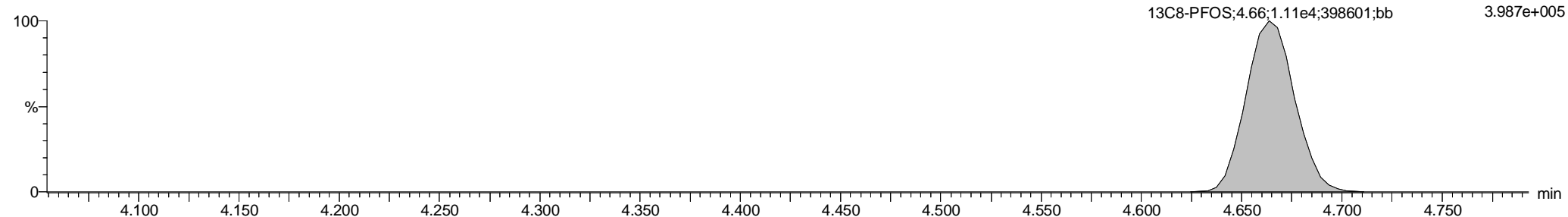
MH-118.5T-20170918 1701279-05 MH-118.5T-20170918 0.125



13C8-PFOS

170928G1_31 Smooth(Mn,1x2)

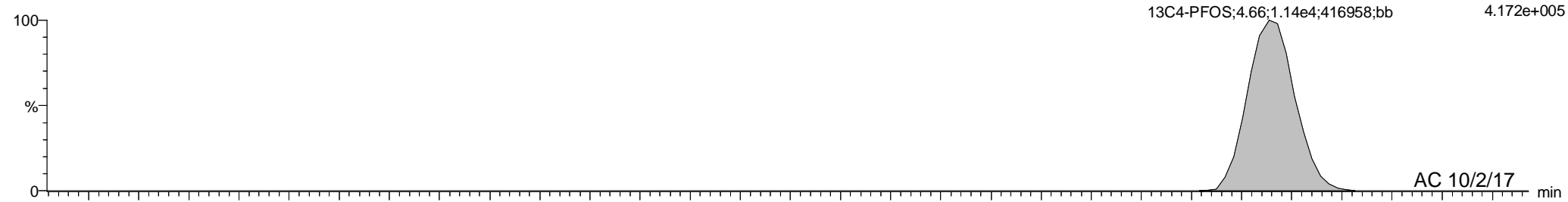
MH-118.5T-20170918 1701279-05 MH-118.5T-20170918 0.125



13C4-PFOS

170928G1_31 Smooth(Mn,1x2)

MH-118.5T-20170918 1701279-05 MH-118.5T-20170918 0.125



Dataset: U:\Q4.PRO\results\170926M1\170926M1-40.qld

Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:23:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	3.32e2	8.71e3	0.11319		3.17	3.14	0.476	4.28	
2	4 PFHxA	313.2 > 268.9	1.22e5	1.03e4	0.11319		3.37	3.37	59.4	341	
3	5 PFHpA	363.1 > 319.1	6.57e4	4.55e4	0.11319		3.63	3.62	18.1	156	
4	6 L-PFHxS	399.0 > 80.0	1.61e3	3.50e3	0.11319		3.71	3.70	5.76	21.5	
5	9 L-PFOA	413 > 368.7	9.63e3	3.50e4	0.11319		3.84	3.83	3.44	26.3	
6	12 PFNA	463.1 > 419.1	1.63e3	3.41e4	0.11319		4.03	4.01	0.599	3.65	
7	14 L-PFOS	499 > 79.9	1.11e3	8.18e3	0.11319		4.08	4.07	1.70	13.6	
8	16 PFDA	513 > 468.8		2.56e4	0.11319		4.21				
9	18 N-MeFOSAA	570.1 > 419		7.28e3	0.11319		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.42e3	0.11319		4.32				
11	20 PFUnA	562.9 > 518.9		3.02e4	0.11319		4.39				
12	22 PFDoA	613.0 > 569.1		3.26e4	0.11319		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-40.qld

Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:24:45 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTeDA	662.9 > 618.9	3.26e4	0.11319		4.78				
2	25	PFTeDA	712.9 > 668.8	2.70e4	0.11319		4.99				
3	31	13C3-PFBA	216.1 > 172.1	1.77e4	1.85e4	0.11319	0.890	1.88	1.84	11.9	107.4
4	32	13C3-PFPeA	266.1 > 222.1	3.19e4	3.61e4	0.11319	0.236	2.98	2.96	4.42	149.7
5	33	13C3-PFBS	302.1 > 79.9	8.71e3	3.61e4	0.11319	0.056	3.17	3.14	1.21	172.9
6	34	13C2-PFHxA	315 > 269.8	1.03e4	3.61e4	0.11319	0.283	3.37	3.37	1.43	100.8
7	35	13C4-PFHpA	367 > 322.1	4.55e4	3.61e4	0.11319	0.499	3.63	3.62	6.31	101.1
8	36	18O2-PFHxS	403 > 103.0	3.50e3	6.55e3	0.11319	0.482	3.71	3.69	6.67	110.6
9	37	13C2-6:2 FTS	429.1 > 408.9	6.24e3	2.99e4	0.11319	0.183	3.84	3.82	2.61	114.1
10	38	13C2-PFOA	414.9 > 369.7	3.50e4	2.99e4	0.11319	1.158	3.84	3.83	14.7	101.2
11	39	13C5-PFNA	468.1 > 423.1	3.41e4	3.97e4	0.11319	0.888	4.03	4.02	10.7	96.7
12	40	13C8-PFOSA	506.1 > 78.0	3.60e3	3.35e4	0.11319	0.143	4.04	4.02	1.34	75.2
13	41	13C8-PFOS	507 > 79.9	8.18e3	7.19e3	0.11319	1.013	4.08	4.08	14.2	112.3
14	42	13C2-PFDA	515.1 > 469.9	2.56e4	3.30e4	0.11319	0.876	4.21	4.20	9.68	88.4
15	43	13C2-8:2 FTS	529.1 > 508.7	4.09e3	3.30e4	0.11319	0.148	4.21	4.20	1.55	84.0
16	44	d3-N-MeFOSAA	573.3 > 419	7.28e3	3.35e4	0.11319	0.017	4.24	4.22	2.72	1410
17	45	d5-N-EtFOSAA	589.3 > 419	7.42e3	3.35e4	0.11319	0.019	4.32	4.30	2.77	1320
18	46	13C2-PFUnA	565 > 519.8	3.02e4	3.35e4	0.11319	0.959	4.39	4.37	11.3	94.0
19	47	13C2-PFDoA	615.1 > 570.1	3.26e4	3.35e4	0.11319	1.003	4.59	4.56	12.2	96.9
20	49	13C2-PFTeDA	714.8 > 669.6	2.70e4	3.35e4	0.11319	0.716	4.99	4.97	10.1	112.5
21	54	13C4-PFBA	217.1 > 172.1	1.85e4	1.85e4	0.11319	1.000	1.88	1.84	12.5	100.0
22	55	13C5-PFHxA	318 > 272.9	3.61e4	3.61e4	0.11319	1.000	3.37	3.37	5.00	44.2
23	56	13C3-PFHxS	402.1 > 80.0	6.55e3	6.55e3	0.11319	1.000	3.71	3.69	12.5	110
24	57	13C8-PFOA	421.3 > 376	2.99e4	2.99e4	0.11319	1.000	3.84	3.83	12.5	110
25	58	13C9-PFNA	472.1 > 427.1	3.97e4	3.97e4	0.11319	1.000	4.03	4.01	12.5	110
26	59	13C4-PFOS	503 > 79.9	7.19e3	7.19e3	0.11319	1.000	4.08	4.08	12.5	110
27	60	13C6-PFDA	519.1 > 473.7	3.30e4	3.30e4	0.11319	1.000	4.21	4.20	12.5	110
28	61	13C7-PFUnA	570.1 > 524.8	3.35e4	3.35e4	0.11319	1.000	4.39	4.38	12.5	110
29	62	Total PFHxS	399.0 > 80.0	1.61e3	3.50e3	0.11319		3.71		5.76	21.5
30	63	Total PFOA	413 > 368.7	9.63e3	3.50e4	0.11319		3.84		3.44	26.3
31	64	Total PFOS	499 > 79.9	1.11e3	8.18e3	0.11319		4.08		1.70	13.6
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	7.28e3	0.11319		4.24		0.000	

AC 9/27/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-40.qld

Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:24:45 Pacific Daylight Time

Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.42e3	0.11319		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-40.qld

Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:23:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.70	1611.379	3498.141	5.758	MM	21.5

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	9630.844	34985.719	3.441	MM	26.3

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.07	1114.323	8178.800	1.703	MM	13.6
2	15 Br-PFOS	499 > 79.9			8178.800		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-40.qld

Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

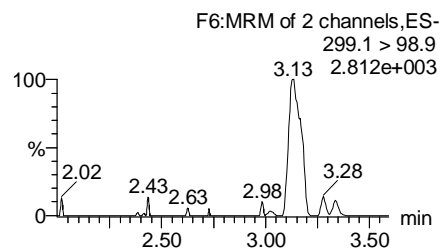
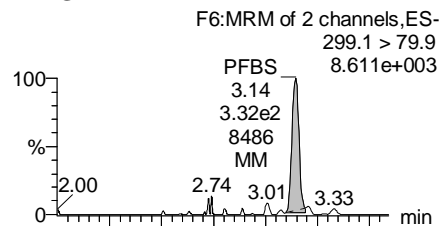
Printed: Wednesday, September 27, 2017 16:23:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

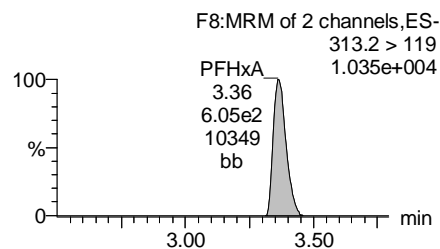
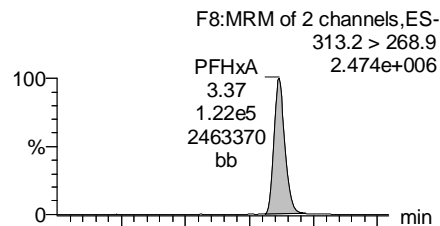
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Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

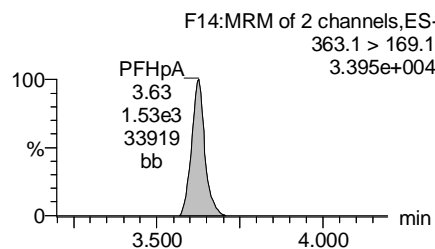
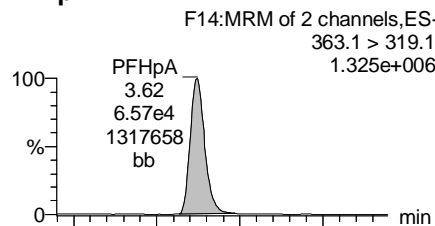
PFBS



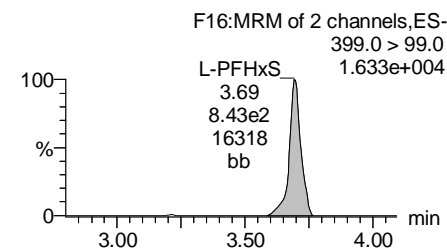
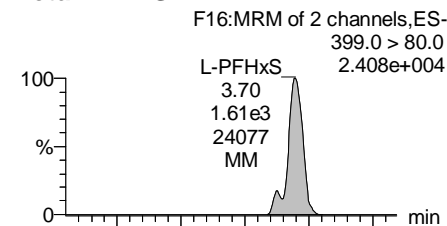
PFHxA



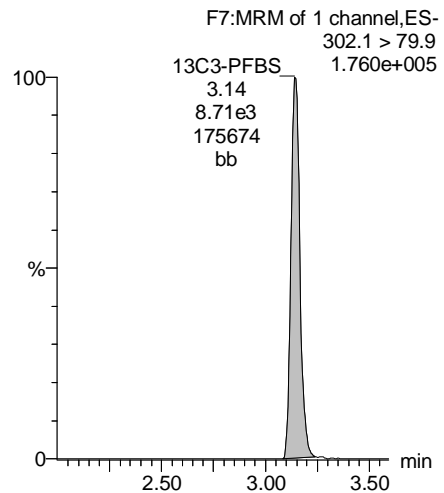
PFHpA



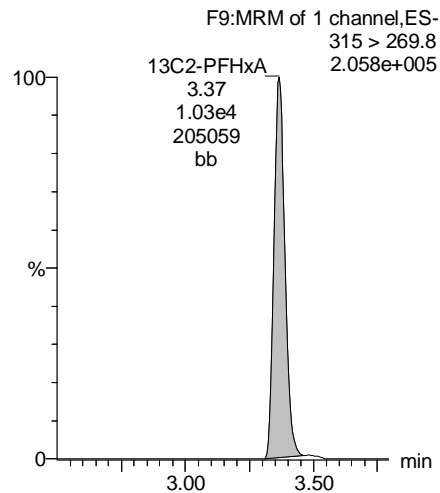
Total PFHxS



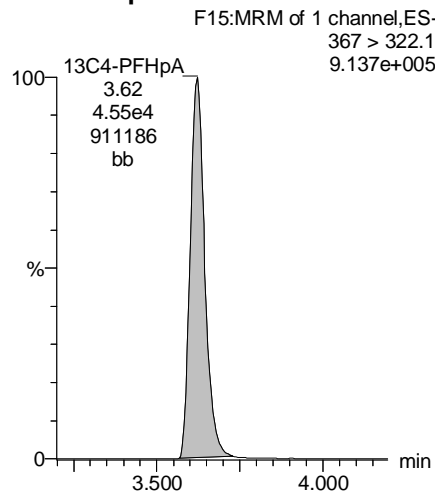
13C3-PFBS



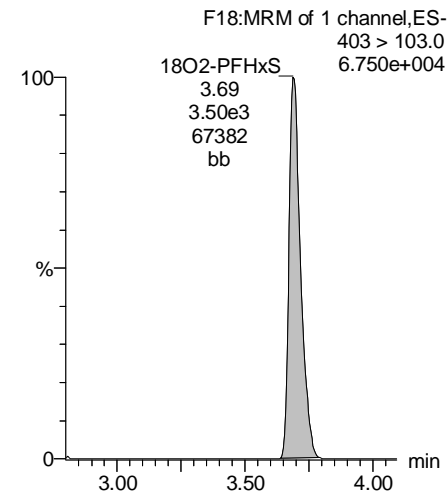
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



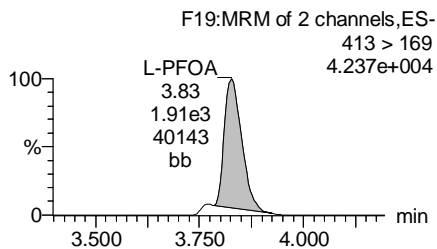
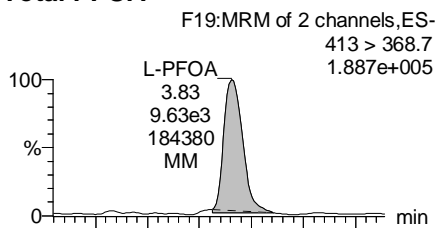
Dataset: U:\Q4.PRO\results\170926M1\170926M1-40.qld

Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

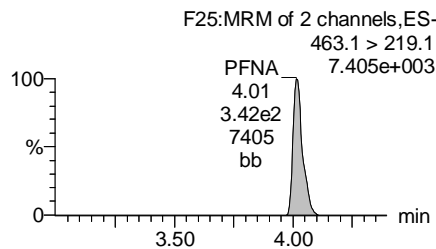
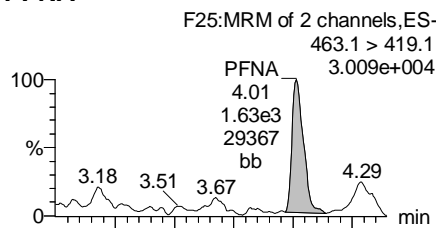
Printed: Wednesday, September 27, 2017 16:23:18 Pacific Daylight Time

Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

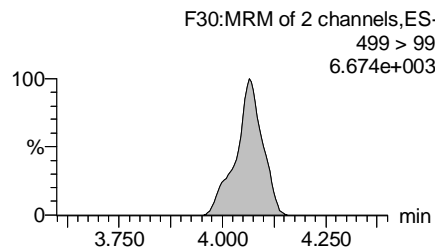
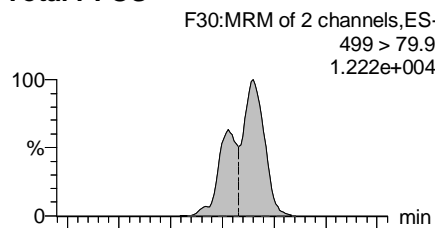
Total PFOA



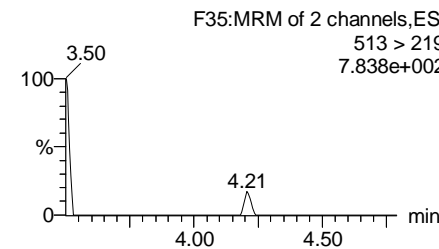
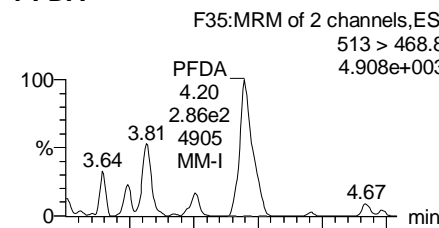
PFNA



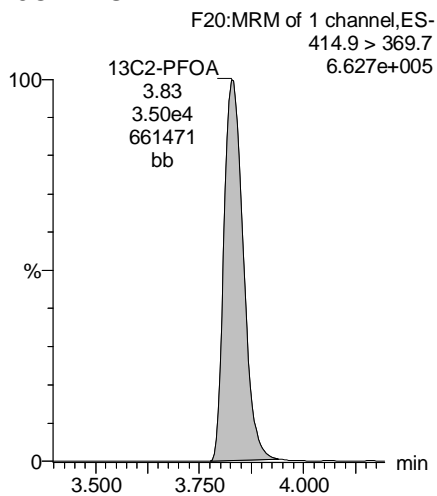
Total PFOS



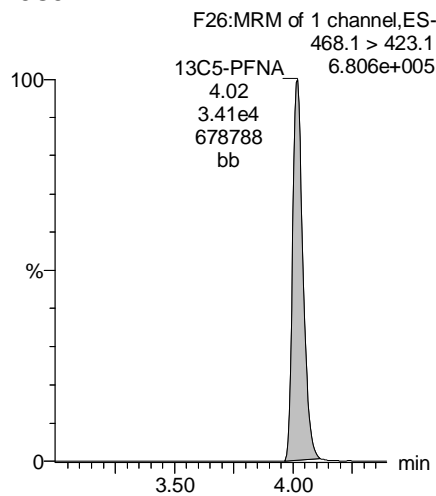
PFDA



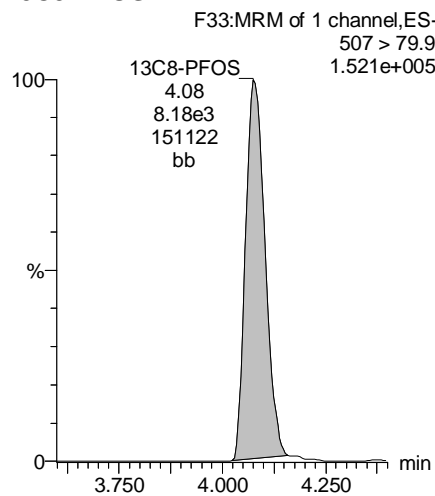
13C2-PFOA



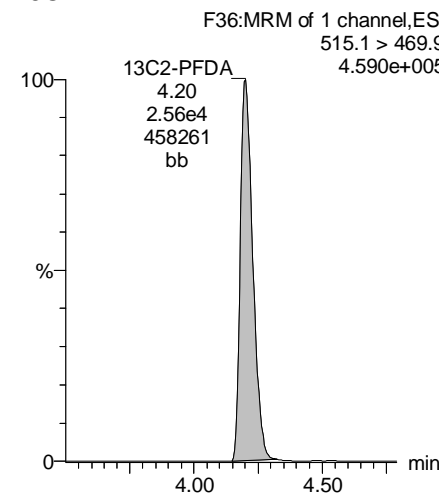
13C5-PFNA



13C8-PFOS



13C2-PFDA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-40.qld

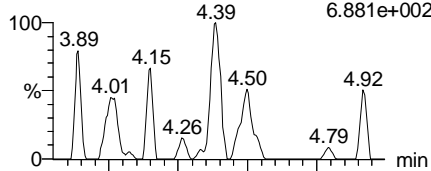
Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:23:18 Pacific Daylight Time

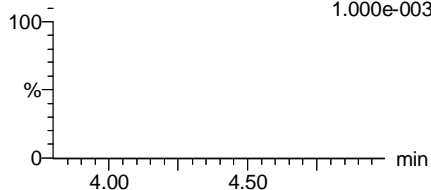
Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
6.881e+002

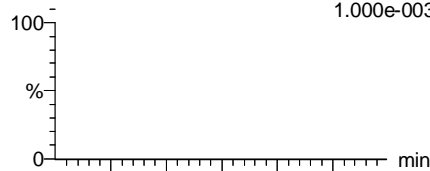


F43:MRM of 2 channels,ES-
562.9 > 269
1.000e-003

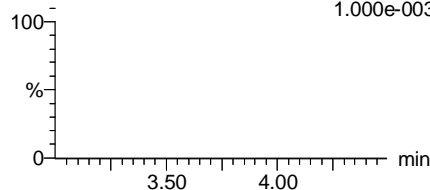


N-MeFOSAA

F45:MRM of 3 channels,ES-
570.1 > 419
1.000e-003

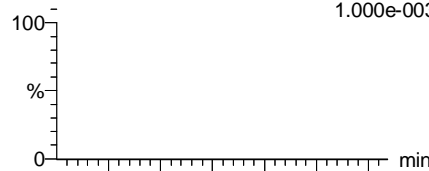


F45:MRM of 3 channels,ES-
570.1 > 483.1
1.000e-003

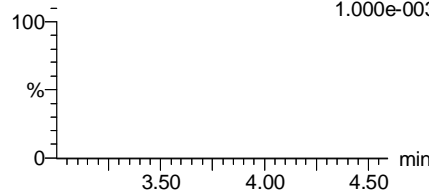


N-EtFOSAA

F48:MRM of 3 channels,ES-
584.2 > 419
1.000e-003

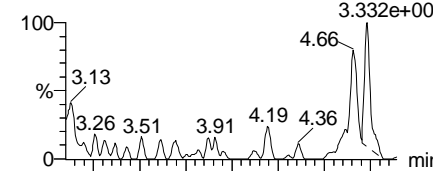


F48:MRM of 3 channels,ES-
584.1 > 526.1
1.000e-003

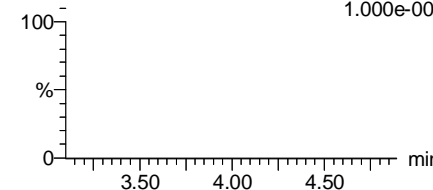


PFDaA

F51:MRM of 4 channels,ES-
613.0 > 569.1
3.332e+003

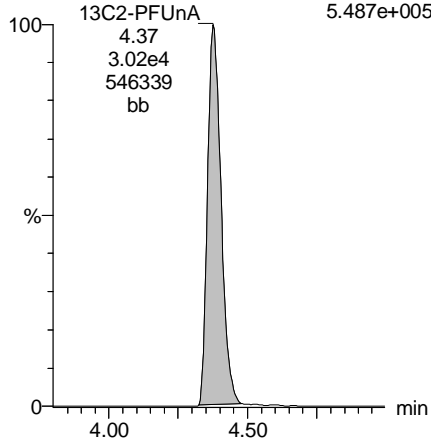


F51:MRM of 4 channels,ES-
613.0 > 319.1
1.000e-003



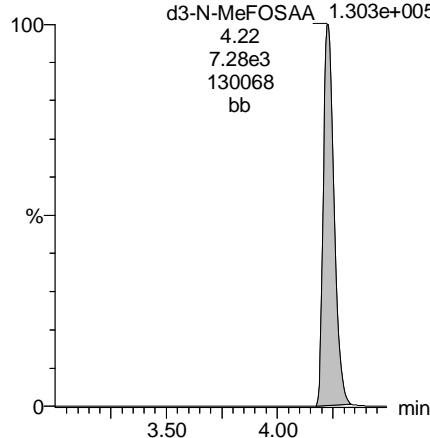
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
5.487e+005



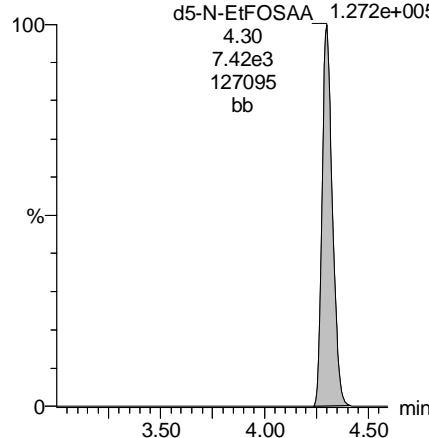
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
1.303e+005



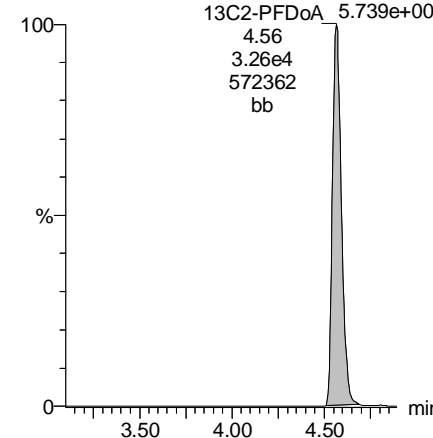
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
1.272e+005



13C2-PFDaA

F52:MRM of 2 channels,ES-
615.1 > 570.1
5.739e+005



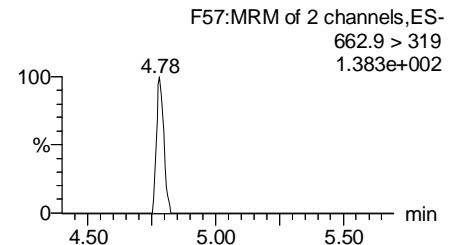
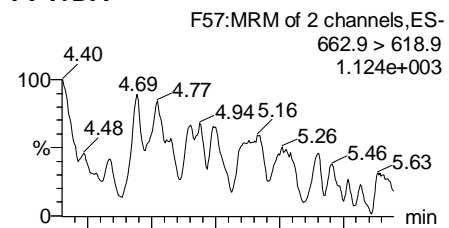
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Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

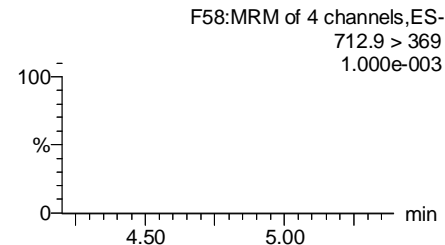
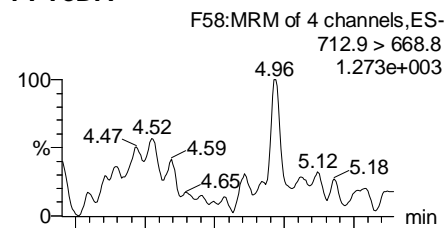
Printed: Wednesday, September 27, 2017 16:23:18 Pacific Daylight Time

Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

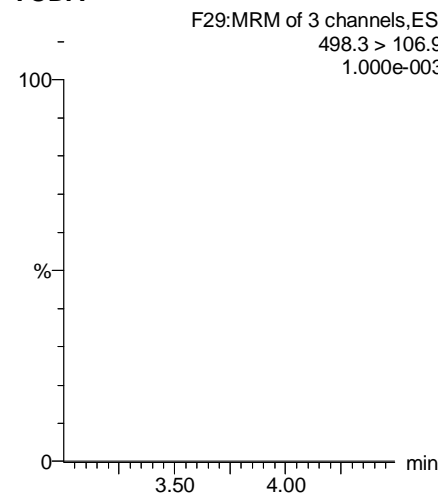
PFTrDA



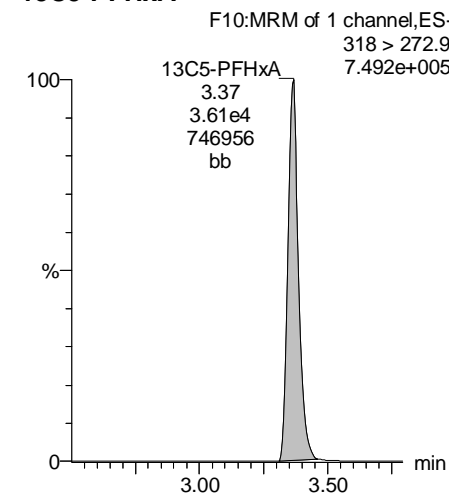
PFTeDA



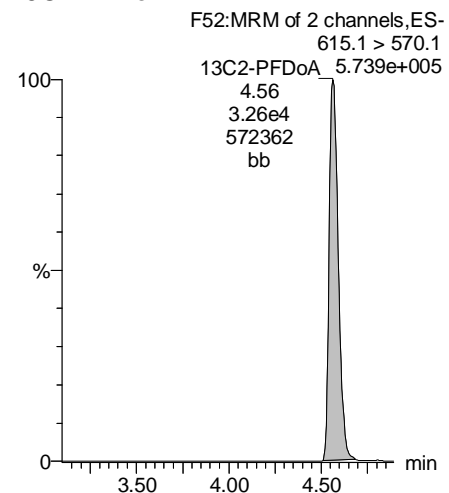
TCDA



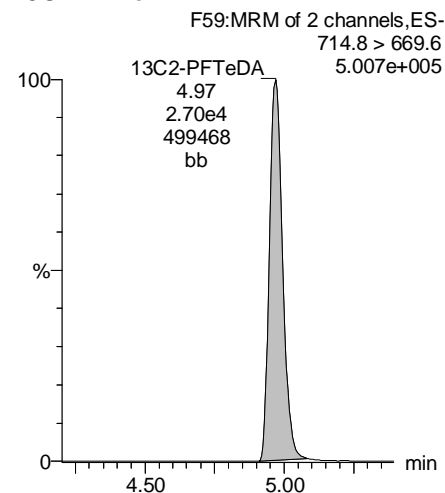
13C5-PFHxA



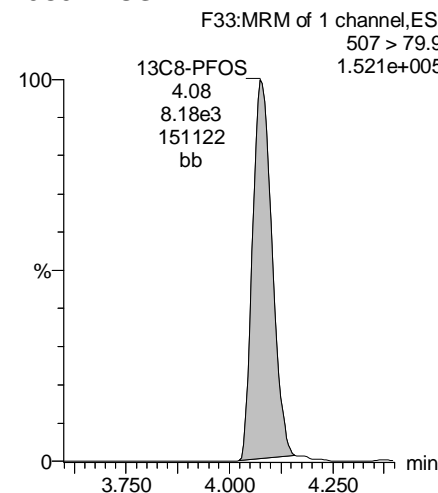
13C2-PFDoA



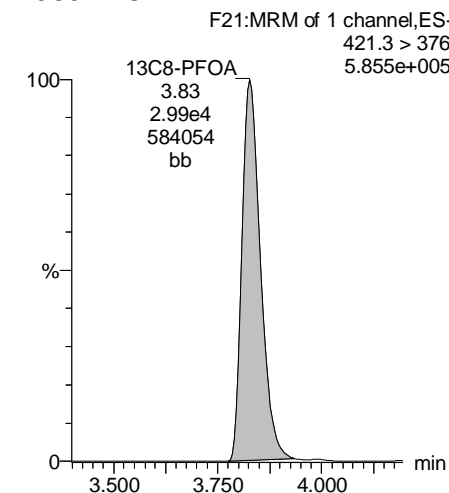
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



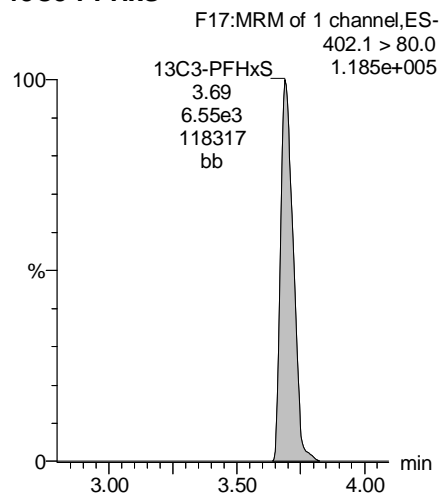
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Last Altered: Wednesday, September 27, 2017 16:22:44 Pacific Daylight Time

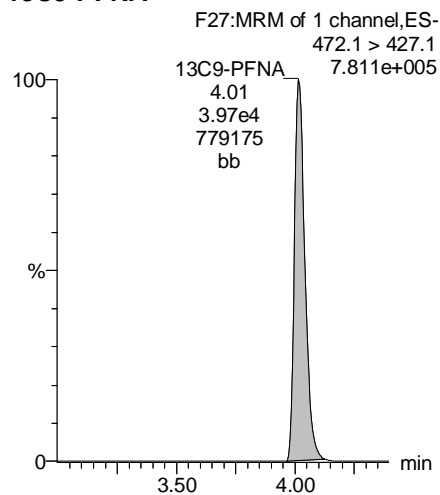
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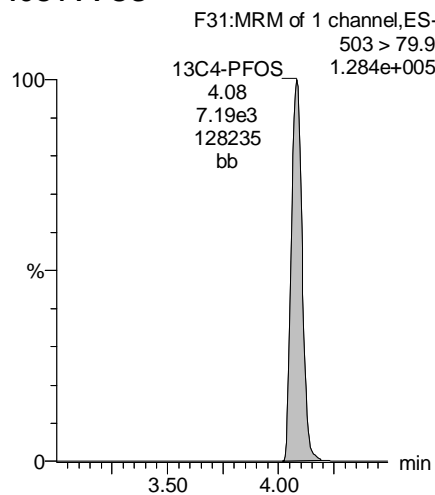
13C3-PFHxS



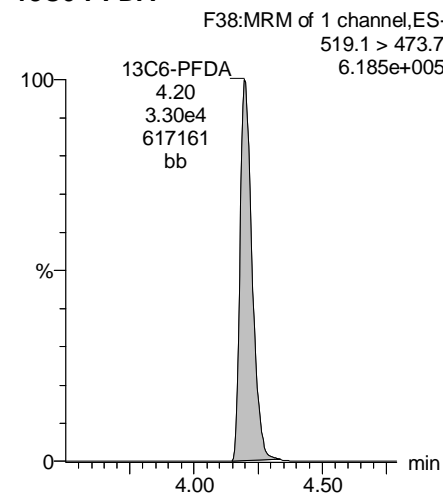
13C9-PFNA



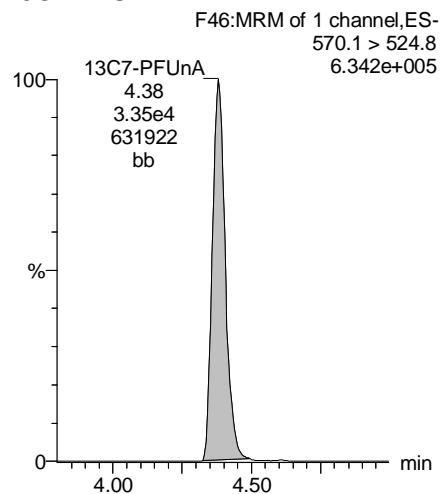
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-41.qld

Last Altered: Wednesday, September 27, 2017 16:28:12 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:28:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.20e2	7.65e3	0.10914		3.17	3.14	0.197	2.00	
2	4 PFHxA	313.2 > 268.9	1.09e4	1.00e4	0.10914		3.37	3.37	5.43	31.4	
3	5 PFHpA	363.1 > 319.1	7.01e3	4.04e4	0.10914		3.63	3.62	2.17	19.2	
4	6 L-PFHxS	399.0 > 80.0	2.10e2	3.33e3	0.10914		3.71	3.69	0.787	2.90	
5	9 L-PFOA	413 > 368.7	3.21e3	2.97e4	0.10914		3.84	3.83	1.35	9.10	
6	12 PFNA	463.1 > 419.1	8.14e2	2.77e4	0.10914		4.03	4.01	0.367	1.84	
7	14 L-PFOS	499 > 79.9	4.79e2	8.10e3	0.10914		4.08	4.08	0.740	5.71	
8	16 PFDA	513 > 468.8		2.48e4	0.10914		4.21				
9	18 N-MeFOSAA	570.1 > 419		6.66e3	0.10914		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.39e3	0.10914		4.32				
11	20 PFUnA	562.9 > 518.9	1.57e2	2.86e4	0.10914		4.39	4.38	0.0686		
12	22 PFDoA	613.0 > 569.1		2.81e4	0.10914		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-41.qld

Last Altered: Wednesday, September 27, 2017 16:28:12 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:29:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	2.81e4	0.10914		4.78				
2	25	PFTeDA	712.9 > 668.8	2.54e4	0.10914		4.99				
3	31	13C3-PFBA	216.1 > 172.1	1.84e4	2.08e4	0.10914	0.890	1.88	1.85	11.0	114 99.3
4	32	13C3-PFPeA	266.1 > 222.1	2.88e4	3.77e4	0.10914	0.236	2.98	2.96	3.82	148 129.3
5	33	13C3-PFBS	302.1 > 79.9	7.65e3	3.77e4	0.10914	0.056	3.17	3.15	1.01	166 145.1
6	34	13C2-PFHxA	315 > 269.8	1.00e4	3.77e4	0.10914	0.283	3.37	3.36	1.33	42.8 93.5
7	35	13C4-PFHpA	367 > 322.1	4.04e4	3.77e4	0.10914	0.499	3.63	3.62	5.35	98.2 85.7
8	36	18O2-PFHxS	403 > 103.0	3.33e3	6.43e3	0.10914	0.482	3.71	3.69	6.48	123 107.5
9	37	13C2-6:2 FTS	429.1 > 408.9	5.33e3	2.79e4	0.10914	0.183	3.84	3.82	2.39	119 104.2
10	38	13C2-PFOA	414.9 > 369.7	2.97e4	2.79e4	0.10914	1.158	3.84	3.82	13.3	105 91.9
11	39	13C5-PFNA	468.1 > 423.1	2.77e4	3.50e4	0.10914	0.888	4.03	4.02	9.90	102 89.2
12	40	13C8-PFOSA	506.1 > 78.0	3.22e3	3.66e4	0.10914	0.143	4.04	4.02	1.10	70.5 61.6
13	41	13C8-PFOS	507 > 79.9	8.10e3	7.35e3	0.10914	1.013	4.08	4.08	13.8	125 108.9
14	42	13C2-PFDA	515.1 > 469.9	2.48e4	2.94e4	0.10914	0.876	4.21	4.20	10.5	110 96.1
15	43	13C2-8:2 FTS	529.1 > 508.7	3.50e3	2.94e4	0.10914	0.148	4.21	4.19	1.49	92.3 80.6
16	44	d3-N-MeFOSAA	573.3 > 419	6.66e3	3.66e4	0.10914	0.017	4.24	4.22	2.27	1220 82.0
17	45	d5-N-EtFOSAA	589.3 > 419	7.39e3	3.66e4	0.10914	0.019	4.32	4.29	2.52	1240 83.5
18	46	13C2-PFUnA	565 > 519.8	2.86e4	3.66e4	0.10914	0.959	4.39	4.37	9.76	93.3 81.4
19	47	13C2-PFDoA	615.1 > 570.1	2.81e4	3.66e4	0.10914	1.003	4.59	4.56	9.60	87.7 76.6
20	49	13C2-PFTeDA	714.8 > 669.6	2.54e4	3.66e4	0.10914	0.716	4.99	4.96	8.68	111 97.0
21	54	13C4-PFBA	217.1 > 172.1	2.08e4	2.08e4	0.10914	1.000	1.88	1.84	12.5	115 100.0
22	55	13C5-PFHxA	318 > 272.9	3.77e4	3.77e4	0.10914	1.000	3.37	3.36	5.00	45.8 100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.43e3	6.43e3	0.10914	1.000	3.71	3.69	12.5	115 100.0
24	57	13C8-PFOA	421.3 > 376	2.79e4	2.79e4	0.10914	1.000	3.84	3.83	12.5	115 100.0
25	58	13C9-PFNA	472.1 > 427.1	3.50e4	3.50e4	0.10914	1.000	4.03	4.01	12.5	115 100.0
26	59	13C4-PFOS	503 > 79.9	7.35e3	7.35e3	0.10914	1.000	4.08	4.08	12.5	115 100.0
27	60	13C6-PFDA	519.1 > 473.7	2.94e4	2.94e4	0.10914	1.000	4.21	4.19	12.5	115 100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.66e4	3.66e4	0.10914	1.000	4.39	4.37	12.5	115 100.0
29	62	Total PFHxS	399.0 > 80.0	2.10e2	3.33e3	0.10914		3.71		0.787	2.90
30	63	Total PFOA	413 > 368.7	3.21e3	2.97e4	0.10914		3.84		1.35	9.10
31	64	Total PFOS	499 > 79.9	4.79e2	8.10e3	0.10914		4.08		0.740	5.71
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.66e3	0.10914		4.24		0.000	

AC 9/27/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-41.qld

Last Altered: Wednesday, September 27, 2017 16:28:12 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:29:42 Pacific Daylight Time

Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.39e3	0.10914		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-41.qld

Last Altered: Wednesday, September 27, 2017 16:28:12 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 16:28:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	209.714	3331.700	0.787	MM	2.9

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	3207.433	29697.076	1.350	bb	9.1

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.08	479.422	8100.248	0.740	MM	5.7
2	15 Br-PFOS	499 > 79.9			8100.248		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-41.qld

Last Altered: Wednesday, September 27, 2017 16:28:12 Pacific Daylight Time

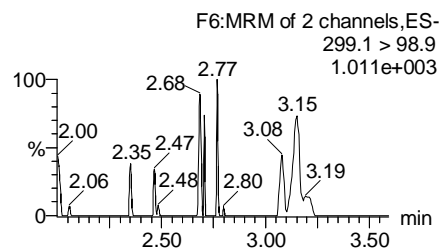
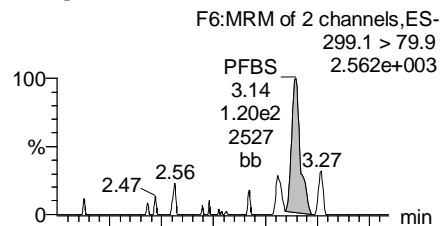
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

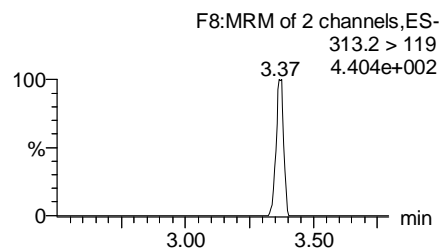
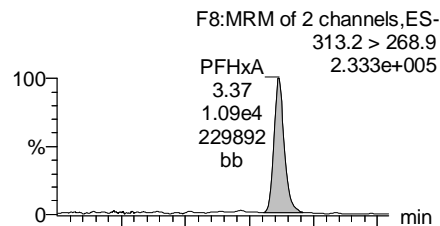
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Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

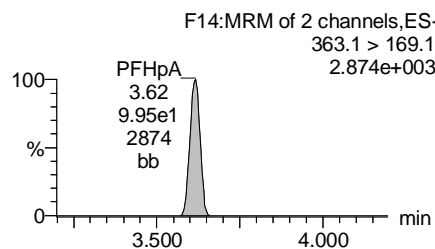
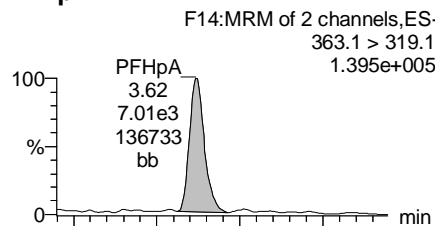
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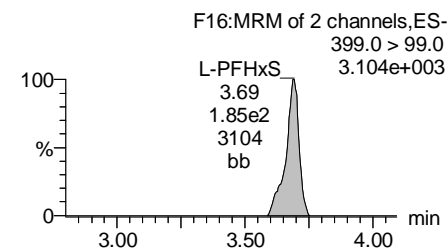
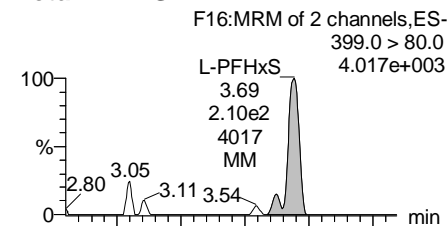
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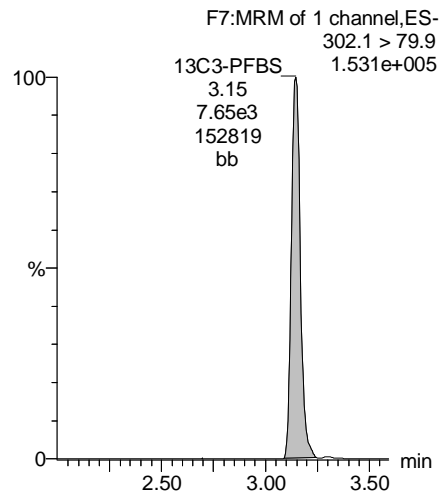
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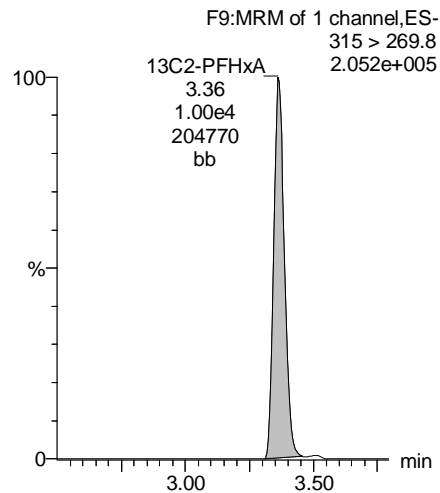
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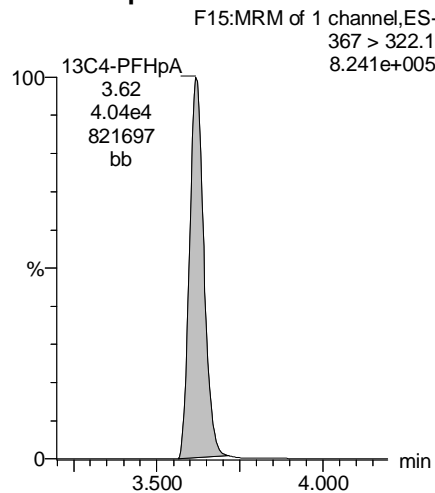
13C3-PFBS



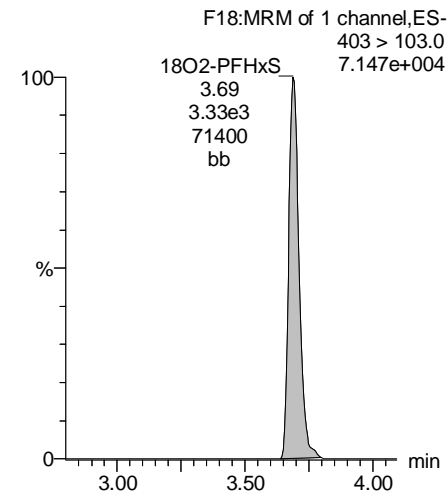
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



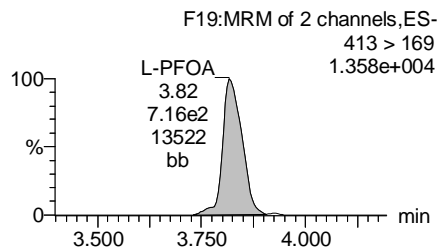
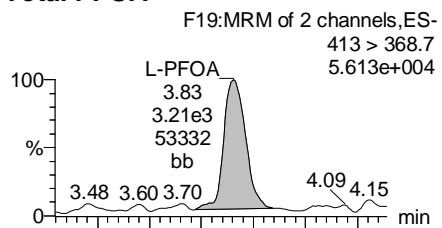
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Last Altered: Wednesday, September 27, 2017 16:28:12 Pacific Daylight Time

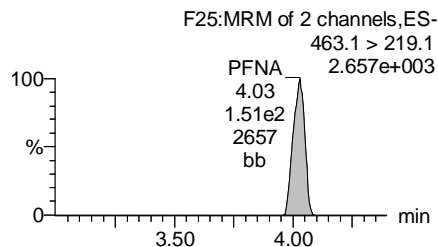
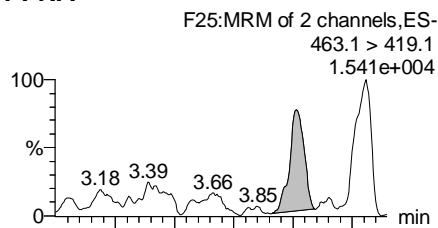
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Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

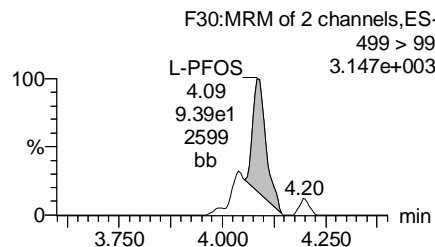
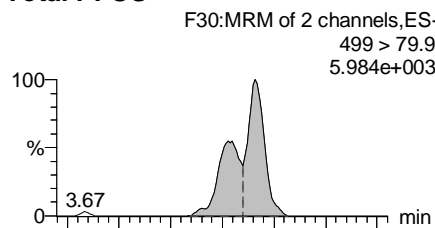
Total PFOA



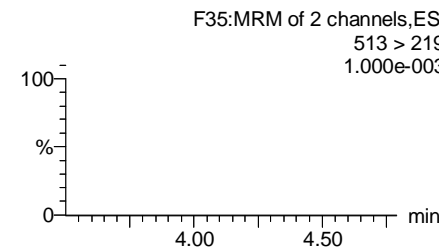
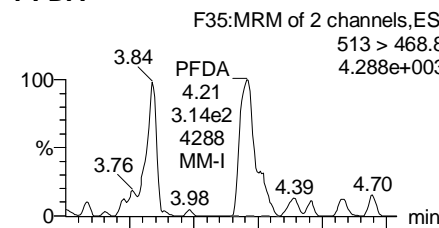
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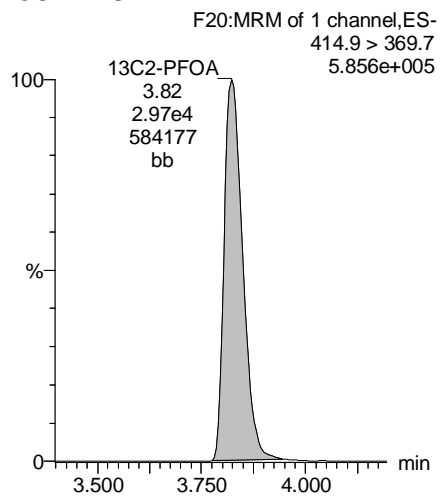
Total PFOS



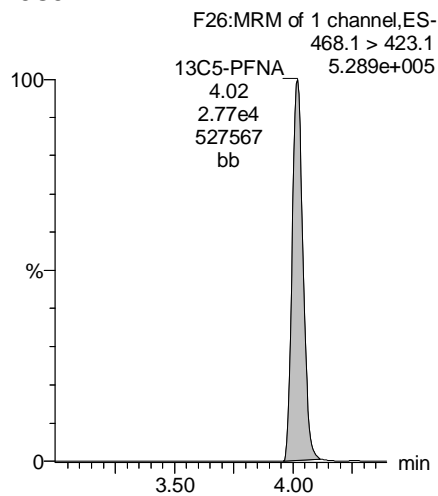
PFDA



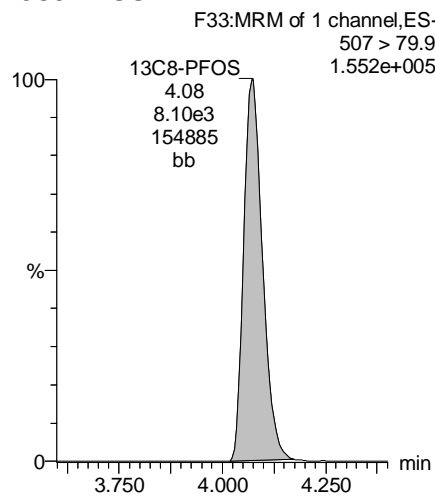
13C2-PFOA



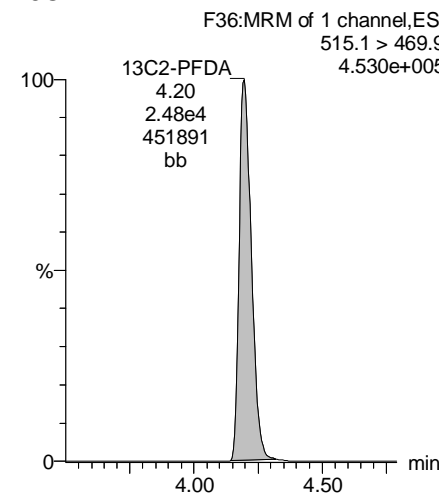
13C5-PFNA



13C8-PFOS



13C2-PFDA



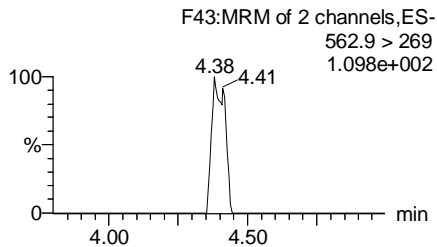
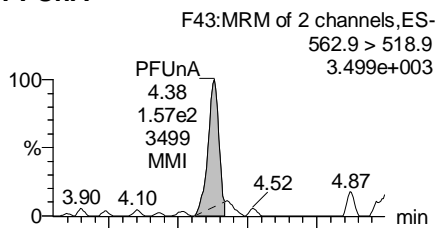
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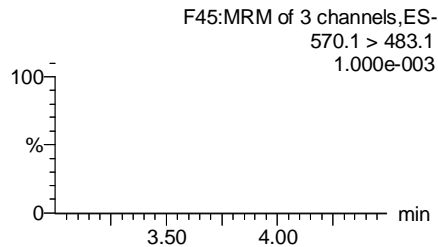
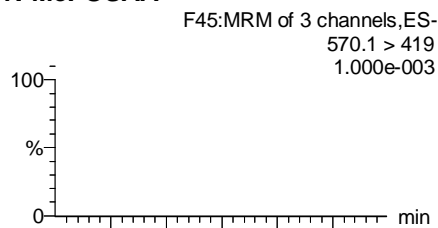
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Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

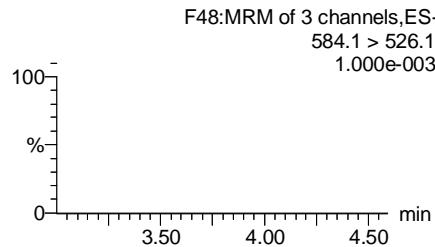
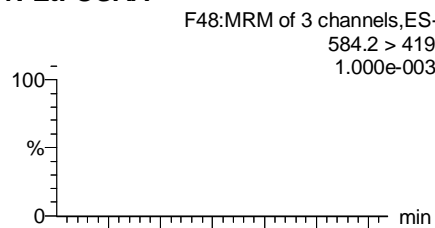
PFUnA



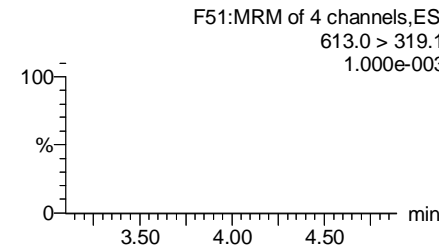
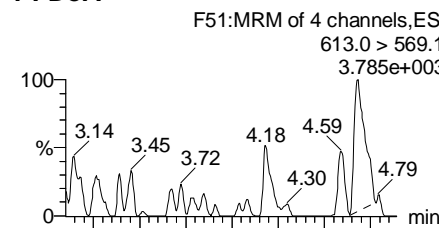
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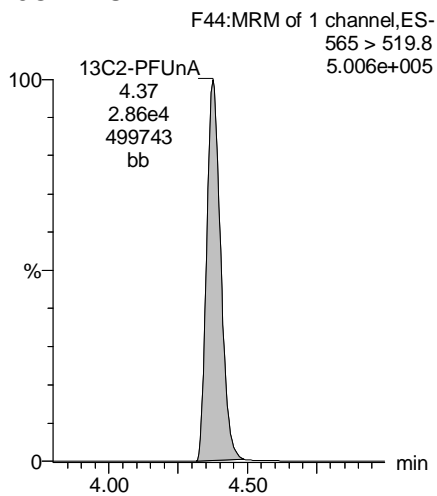
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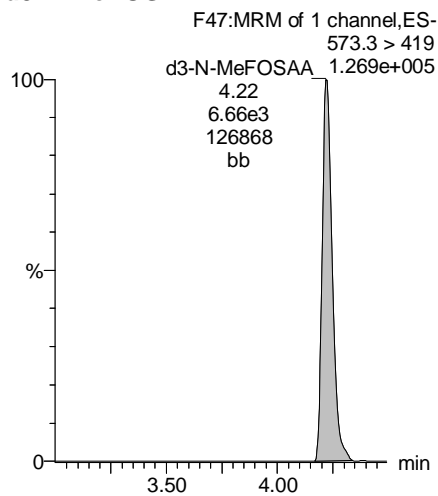
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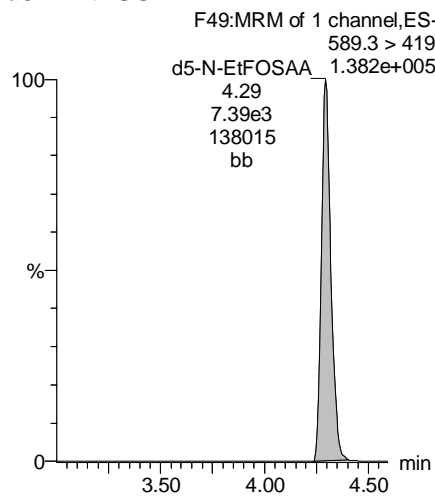
13C2-PFUnA



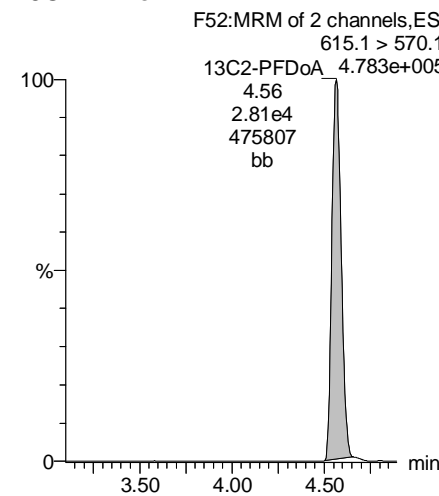
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d5-N-EtFOSAA



13C2-PFDaA



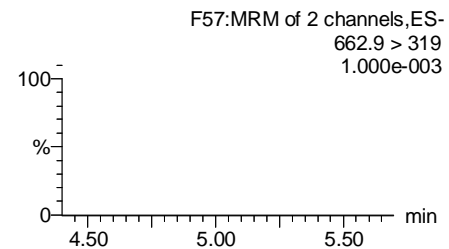
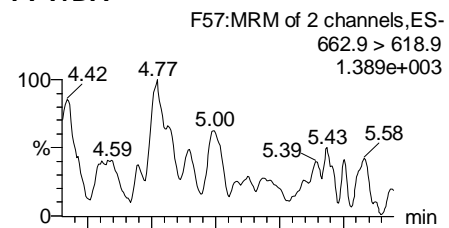
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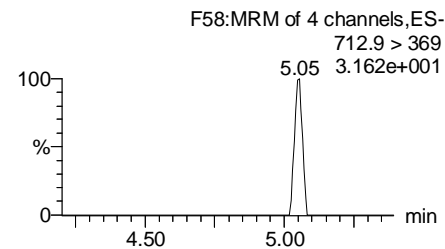
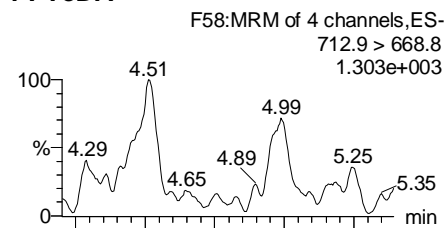
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Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

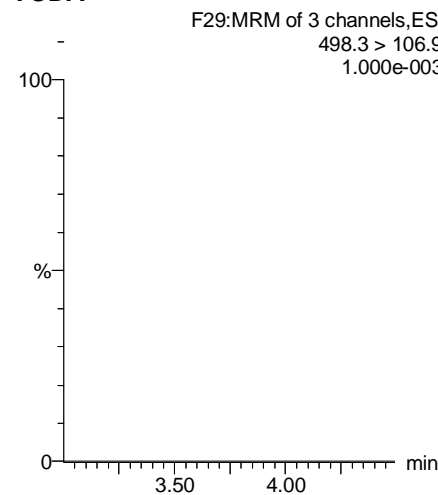
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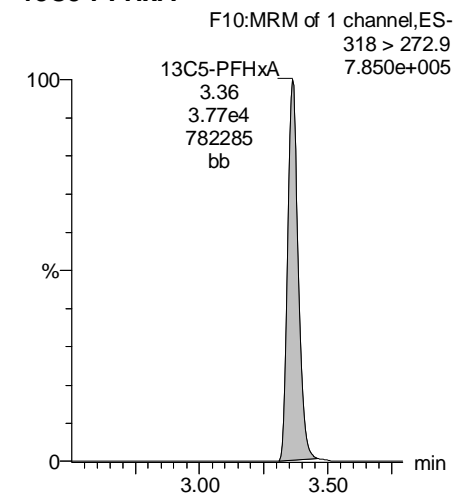
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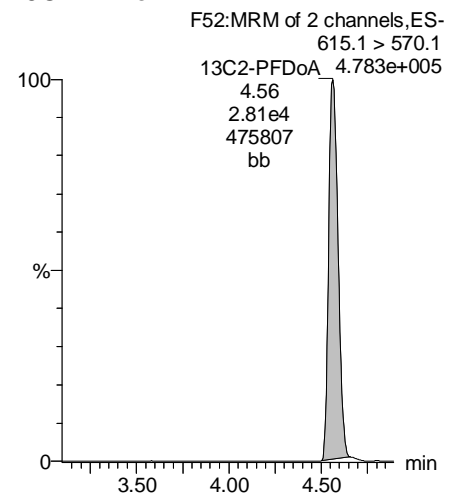
TCDA



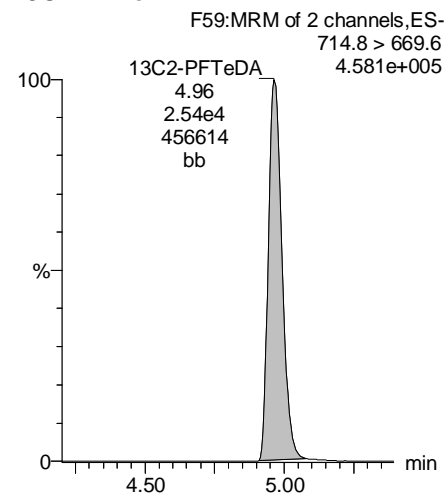
13C5-PFHxA



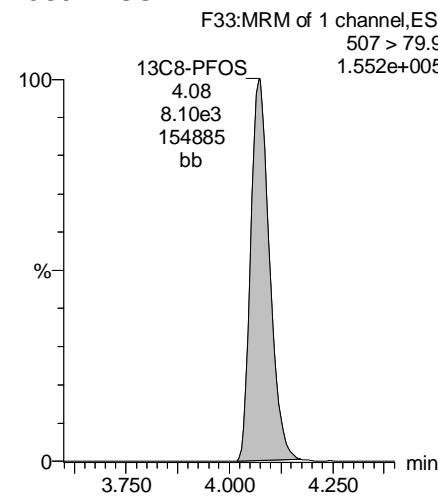
13C2-PFDoA



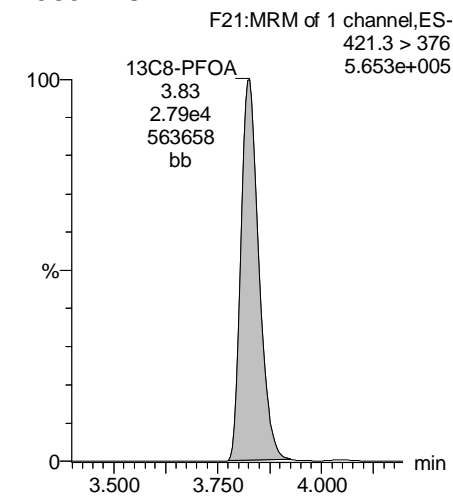
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



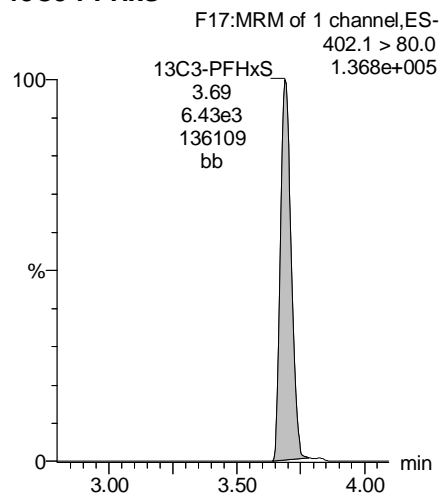
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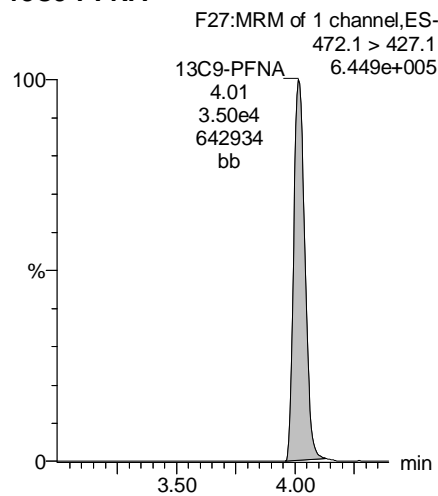
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Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

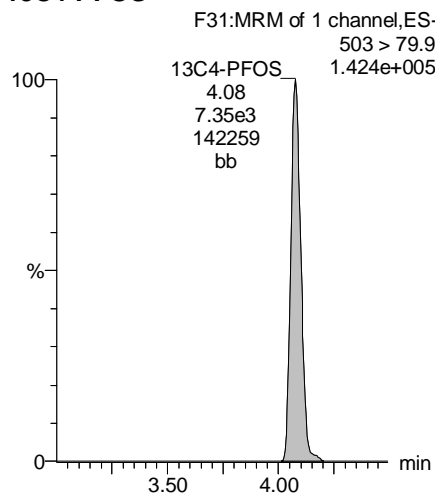
13C3-PFHxS



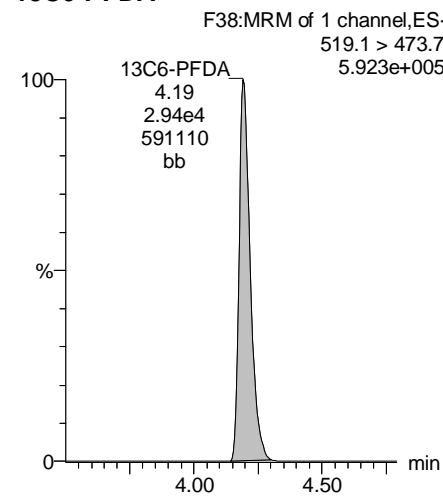
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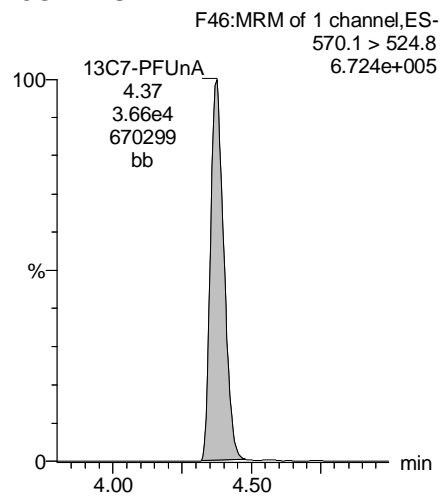
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-42.qld

Last Altered: Thursday, September 28, 2017 09:23:57 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:25:05 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	2.04e2	7.80e3	0.11542		3.17	3.14	0.327	2.97	
2	4 PFHxA	313.2 > 268.9	4.03e4	1.08e4	0.11542		3.37	3.36	18.6	104	
3	5 PFHpA	363.1 > 319.1	2.81e4	4.37e4	0.11542		3.63	3.62	8.05	68.0	
4	6 L-PFHxS	399.0 > 80.0	2.48e2	3.43e3	0.11542		3.71	3.69	0.904	3.17	
5	9 L-PFOA	413 > 368.7	1.32e4	3.19e4	0.11542		3.84	3.83	5.16	40.0	
6	12 PFNA	463.1 > 419.1	3.18e3	2.65e4	0.11542		4.03	4.01	1.50	10.7	
7	14 L-PFOS	499 > 79.9	7.18e2	7.03e3	0.11542		4.08	4.07	1.28	9.80	
8	16 PFDA	513 > 468.8	6.49e2	2.57e4	0.11542		4.21	4.21	0.316	0.641	
9	18 N-MeFOSAA	570.1 > 419		6.19e3	0.11542		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.11e3	0.11542		4.32				
11	20 PFUnA	562.9 > 518.9	6.11e2	2.76e4	0.11542		4.39	4.37	0.277	1.76	
12	22 PFDoA	613.0 > 569.1		3.49e4	0.11542		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-42.qld

Last Altered: Thursday, September 28, 2017 09:23:57 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:25:35 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTeDA	662.9 > 618.9	3.49e4	0.11542		4.78					
2	25	PFTeDA	712.9 > 668.8	2.48e4	0.11542		4.99					
3	31	13C3-PFBA	216.1 > 172.1	1.92e4	2.19e4	0.11542	0.890	1.88	1.86	11.0	107	98.6
4	32	13C3-PFPeA	266.1 > 222.1	3.00e4	4.04e4	0.11542	0.236	2.98	2.96	3.71	136	125.7
5	33	13C3-PFBS	302.1 > 79.9	7.80e3	4.04e4	0.11542	0.056	3.17	3.15	0.966	150	138.3
6	34	13C2-PFHxA	315 > 269.8	1.08e4	4.04e4	0.11542	0.283	3.37	3.37	1.34	40.9	94.5
7	35	13C4-PFHpA	367 > 322.1	4.37e4	4.04e4	0.11542	0.499	3.63	3.62	5.41	93.9	86.7
8	36	18O2-PFHxS	403 > 103.0	3.43e3	6.78e3	0.11542	0.482	3.71	3.69	6.32	113	104.8
9	37	13C2-6:2 FTS	429.1 > 408.9	5.35e3	2.79e4	0.11542	0.183	3.84	3.81	2.39	113	104.6
10	38	13C2-PFOA	414.9 > 369.7	3.19e4	2.79e4	0.11542	1.158	3.84	3.83	14.3	107	98.6
11	39	13C5-PFNA	468.1 > 423.1	2.65e4	3.69e4	0.11542	0.888	4.03	4.01	8.98	87.6	80.9
12	40	13C8-PFOA	506.1 > 78.0	3.43e3	3.91e4	0.11542	0.143	4.04	4.02	1.10	66.6	61.5
13	41	13C8-PFOS	507 > 79.9	7.03e3	6.67e3	0.11542	1.013	4.08	4.07	13.2	113	104.0
14	42	13C2-PFDA	515.1 > 469.9	2.57e4	3.08e4	0.11542	0.876	4.21	4.19	10.4	103	95.4
15	43	13C2-8:2 FTS	529.1 > 508.7	4.48e3	3.08e4	0.11542	0.148	4.21	4.19	1.82	107	98.5
16	44	d3-N-MeFOSAA	573.3 > 419	6.19e3	3.91e4	0.11542	0.017	4.24	4.22	1.98	1000	71.3
17	45	d5-N-EtFOSAA	589.3 > 419	7.11e3	3.91e4	0.11542	0.019	4.32	4.29	2.27	1060	75.2
18	46	13C2-PFUnA	565 > 519.8	2.76e4	3.91e4	0.11542	0.959	4.39	4.37	8.81	79.6	73.5
19	47	13C2-PFDoA	615.1 > 570.1	3.49e4	3.91e4	0.11542	1.003	4.59	4.56	11.1	96.2	88.8
20	49	13C2-PFTeDA	714.8 > 669.6	2.48e4	3.91e4	0.11542	0.716	4.99	4.96	7.93	95.9	88.6
21	54	13C4-PFBA	217.1 > 172.1	2.19e4	2.19e4	0.11542	1.000	1.88	1.86	12.5	108	100.0
22	55	13C5-PFHxA	318 > 272.9	4.04e4	4.04e4	0.11542	1.000	3.37	3.36	5.00	43.3	100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.78e3	6.78e3	0.11542	1.000	3.71	3.69	12.5	108	100.0
24	57	13C8-PFOA	421.3 > 376	2.79e4	2.79e4	0.11542	1.000	3.84	3.83	12.5	108	100.0
25	58	13C9-PFNA	472.1 > 427.1	3.69e4	3.69e4	0.11542	1.000	4.03	4.01	12.5	108	100.0
26	59	13C4-PFOS	503 > 79.9	6.67e3	6.67e3	0.11542	1.000	4.08	4.08	12.5	108	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.08e4	3.08e4	0.11542	1.000	4.21	4.20	12.5	108	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.91e4	3.91e4	0.11542	1.000	4.39	4.37	12.5	108	100.0
29	62	Total PFHxS	399.0 > 80.0	2.48e2	3.43e3	0.11542		3.71		0.904	3.17	
30	63	Total PFOA	413 > 368.7	1.32e4	3.19e4	0.11542		3.84		5.16	40.0	
31	64	Total PFOS	499 > 79.9	7.18e2	7.03e3	0.11542		4.08		1.28	9.80	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.19e3	0.11542		4.24		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-42.qld

Last Altered: Thursday, September 28, 2017 09:23:57 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:25:35 Pacific Daylight Time

Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.11e3	0.11542		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-42.qld

Last Altered: Thursday, September 28, 2017 09:23:57 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:25:05 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	247.828	3426.508	0.904	bb	3.2

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	13162.839	31885.125	5.160	bb	40.0

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.07	717.867	7026.531	1.277	MM	9.8
2	15 Br-PFOS	499 > 79.9			7026.531		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
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Dataset: U:\Q4.PRO\results\170926M1\170926M1-42.qld

Last Altered: Thursday, September 28, 2017 09:23:57 Pacific Daylight Time

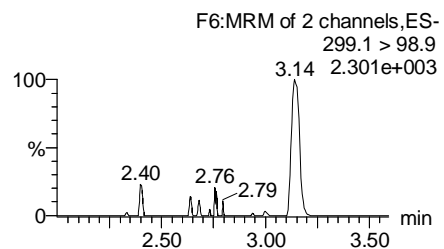
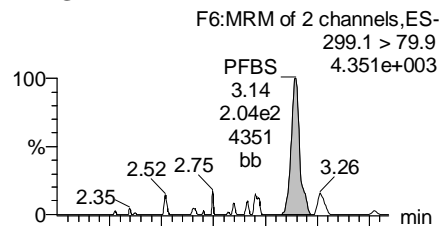
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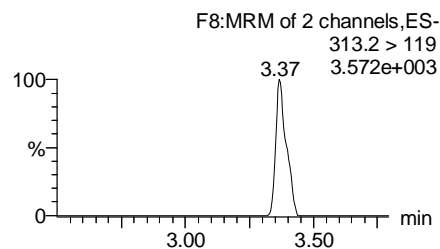
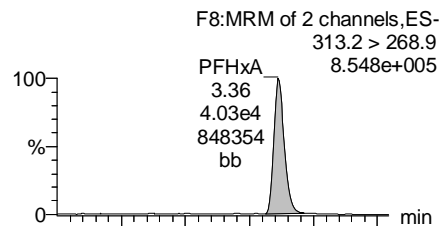
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Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

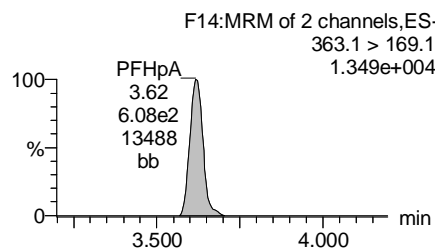
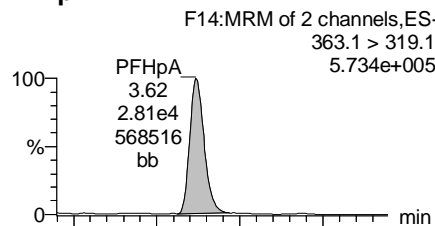
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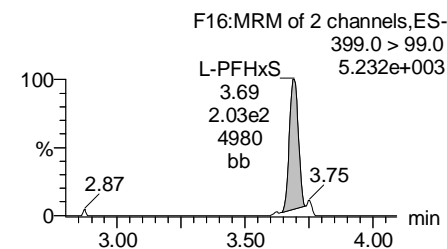
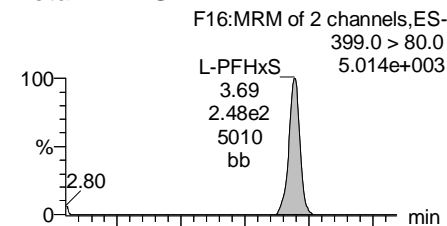
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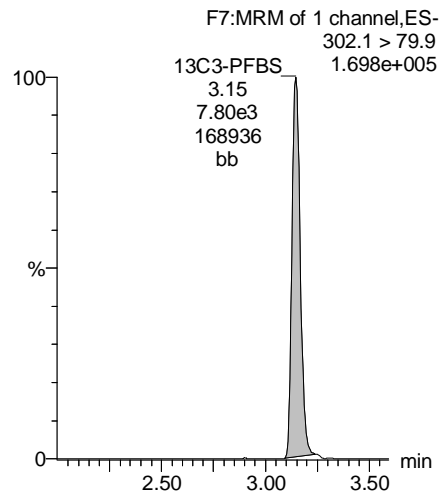
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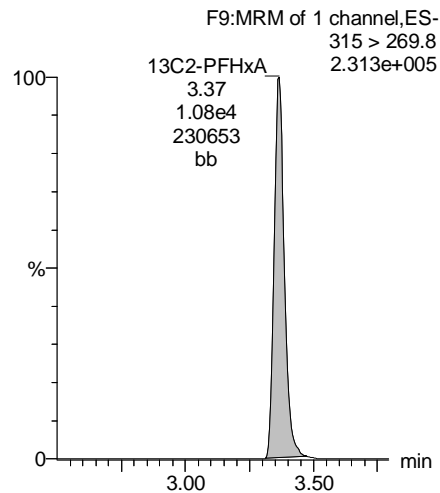
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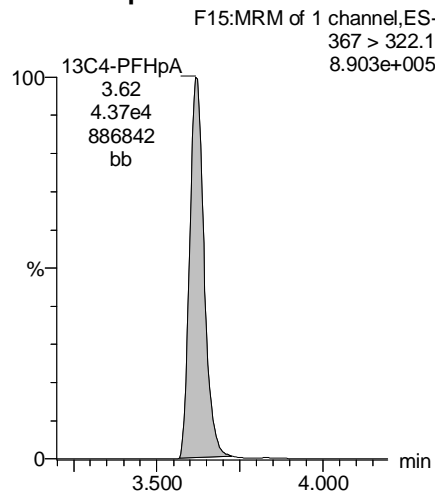
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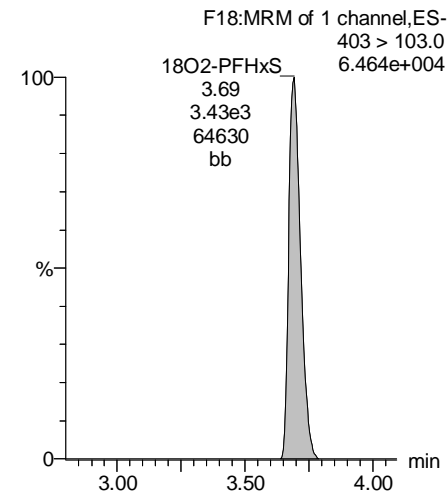
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



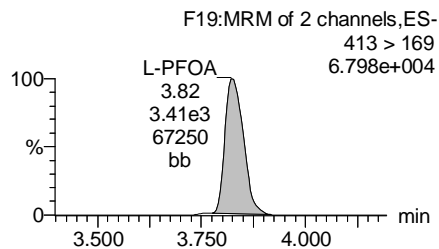
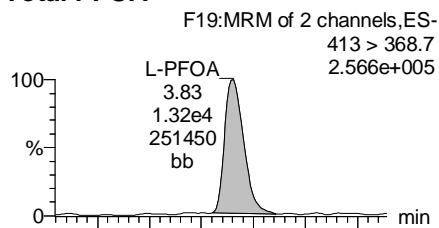
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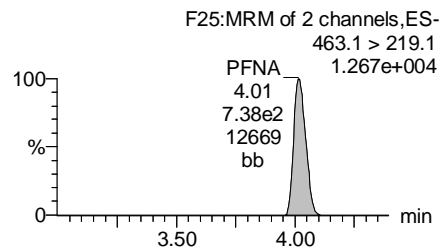
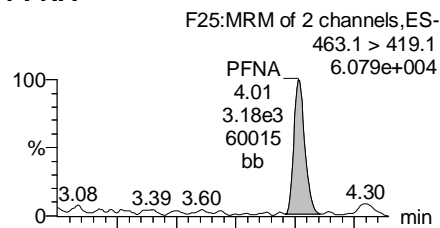
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Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

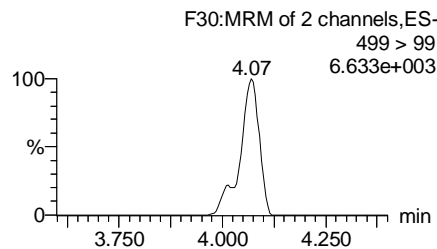
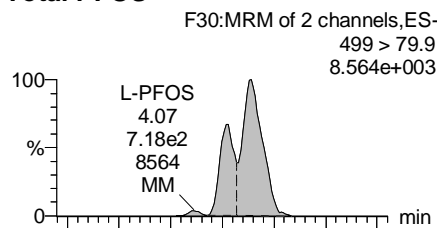
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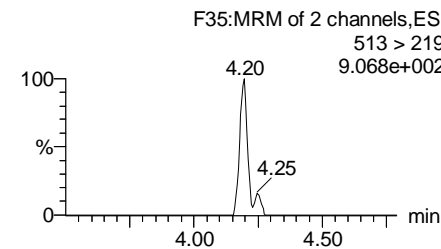
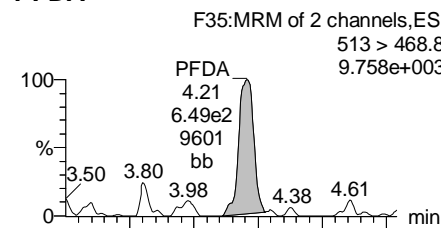
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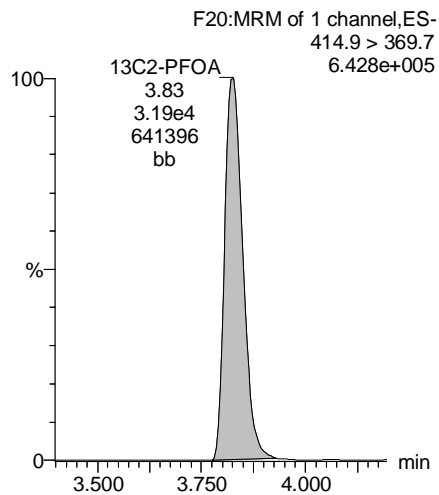
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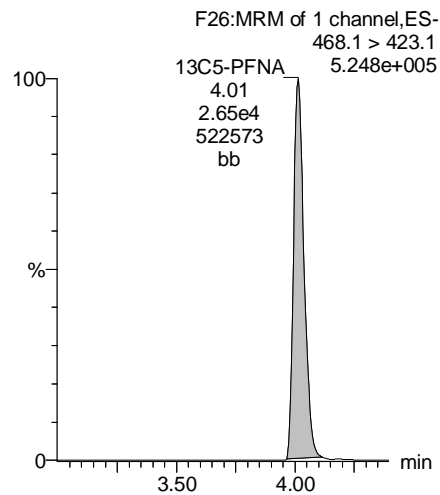
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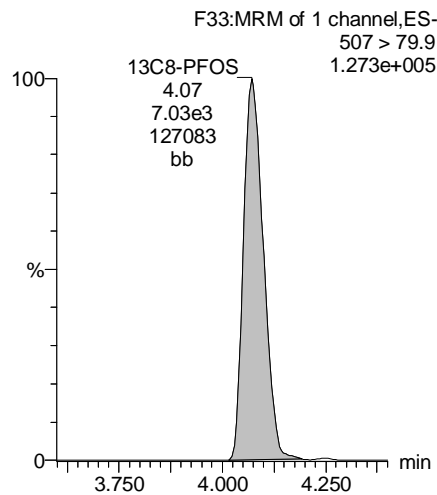
13C2-PFOA



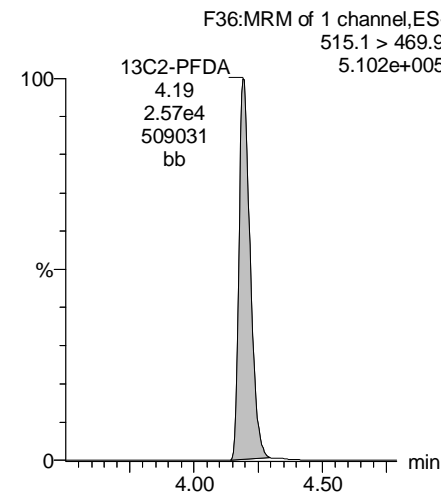
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13C8-PFOS



13C2-PFDA



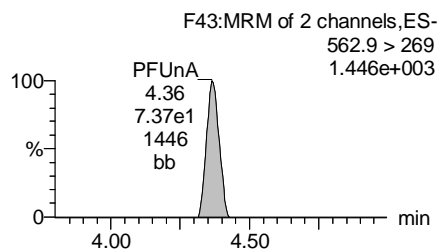
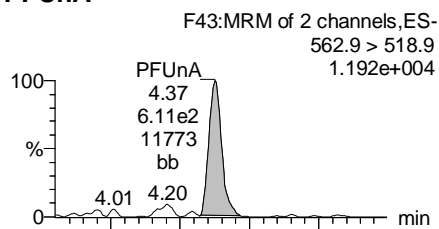
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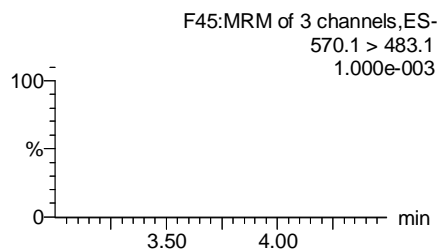
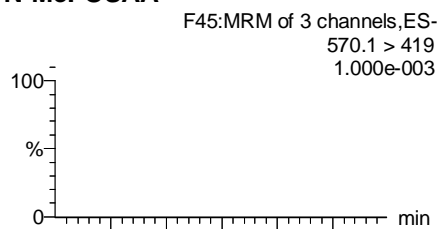
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Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

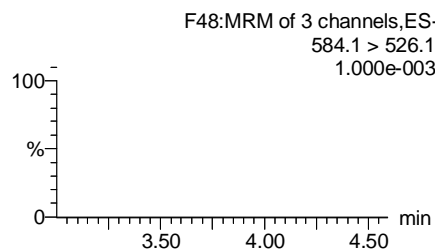
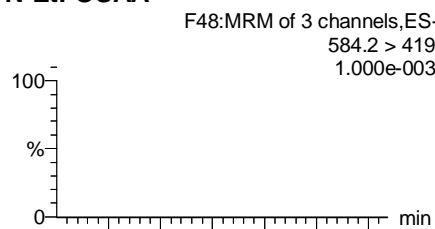
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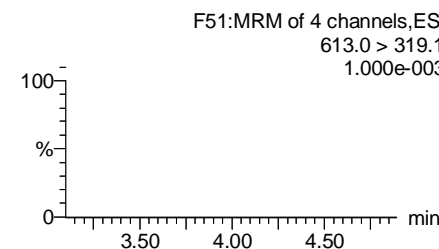
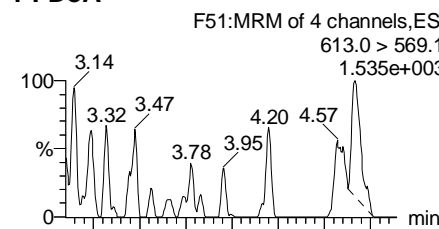
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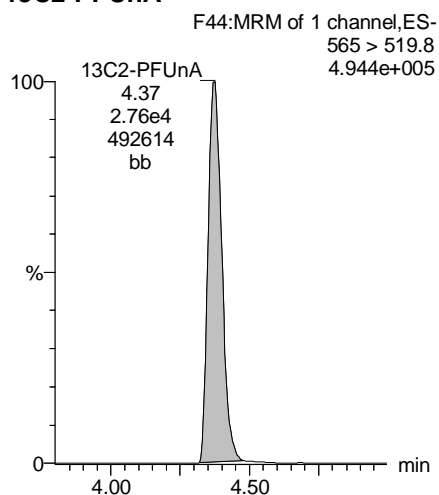
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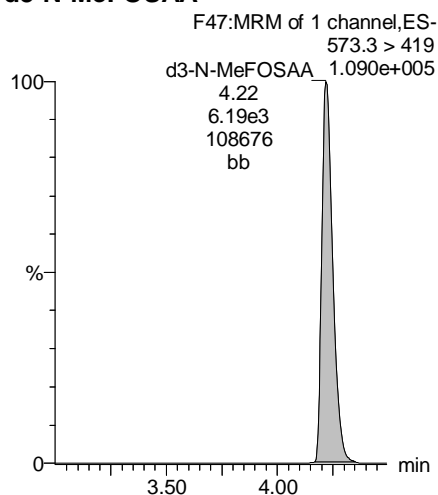
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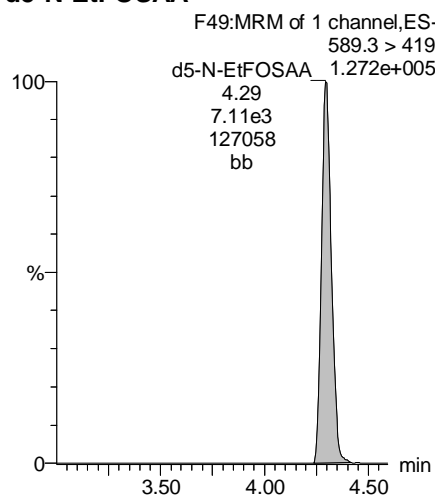
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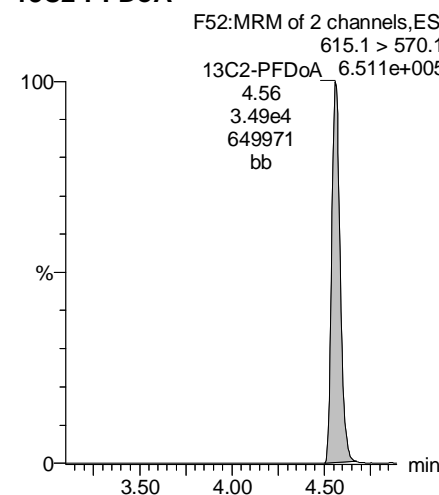
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



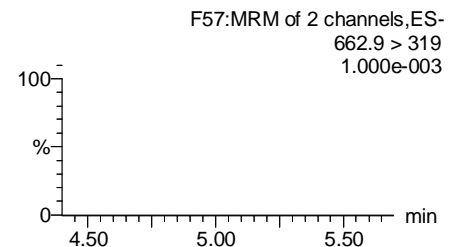
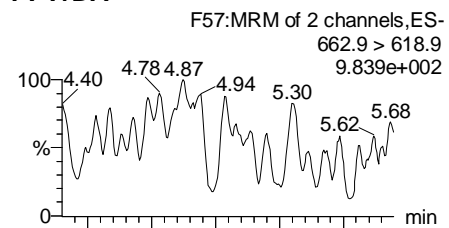
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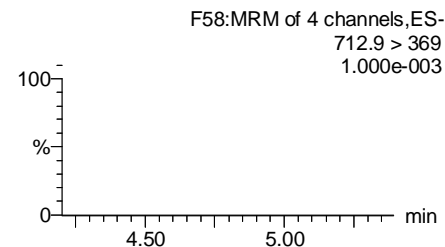
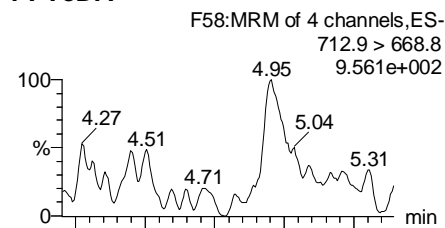
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Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

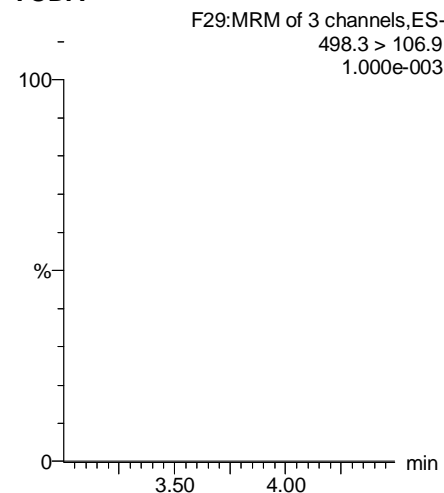
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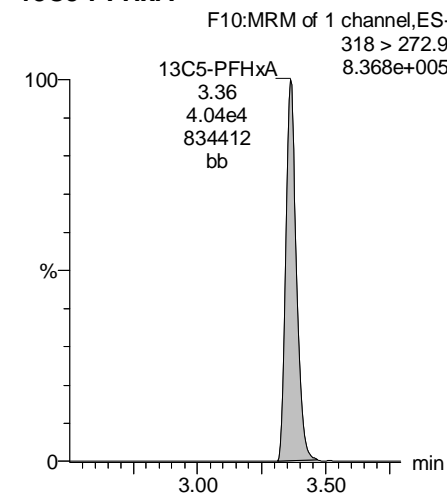
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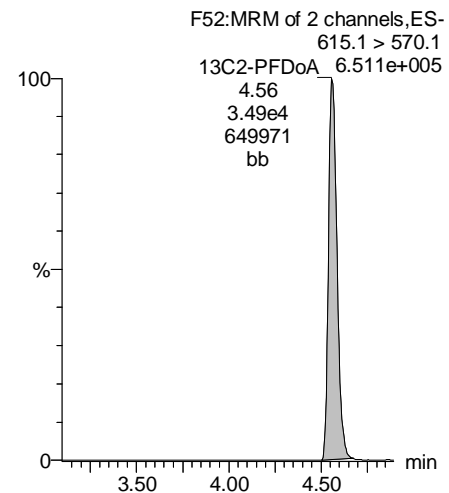
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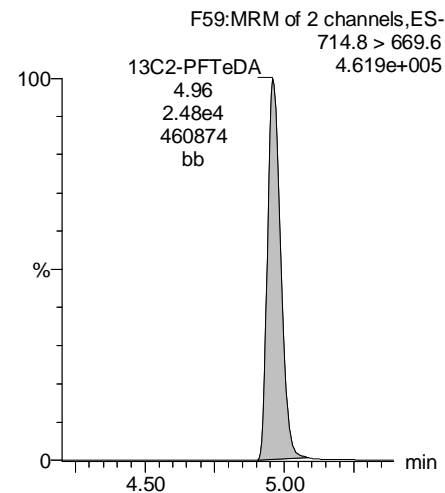
13C5-PFHxA



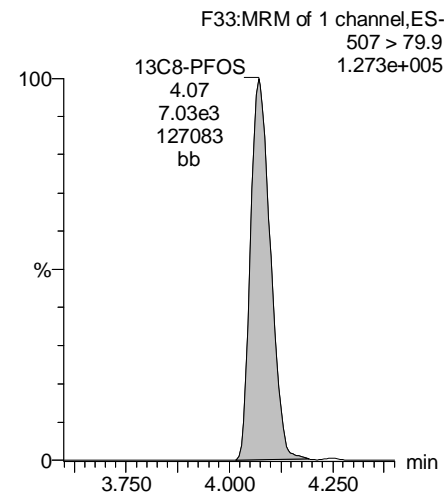
13C2-PFDoA



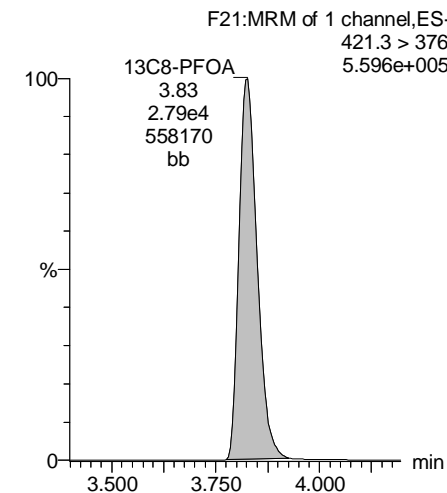
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



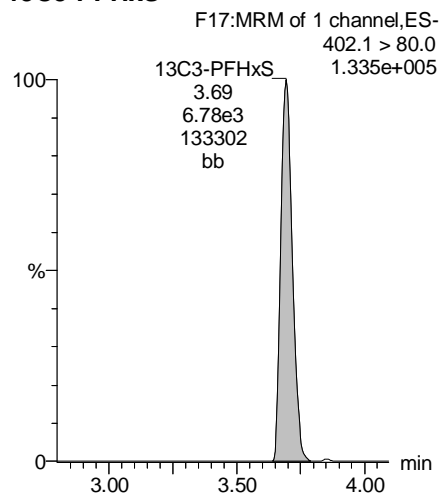
Dataset: U:\Q4.PRO\results\170926M1\170926M1-42.qld

Last Altered: Thursday, September 28, 2017 09:23:57 Pacific Daylight Time

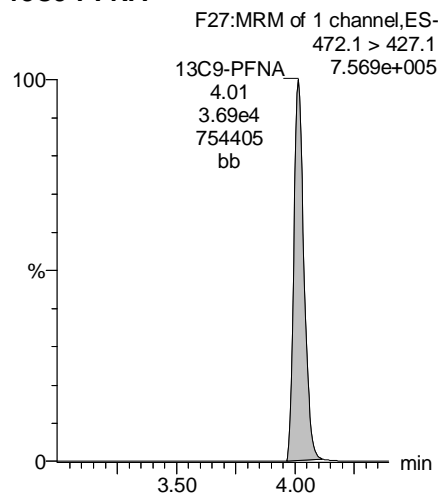
Printed: Thursday, September 28, 2017 09:25:05 Pacific Daylight Time

Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

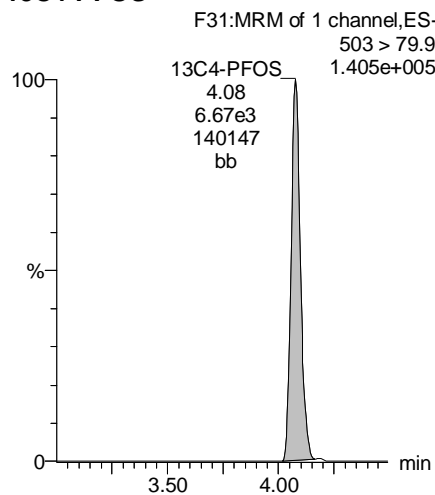
13C3-PFHxS



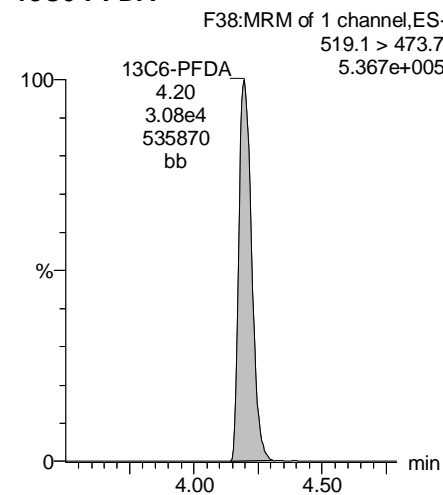
13C9-PFNA



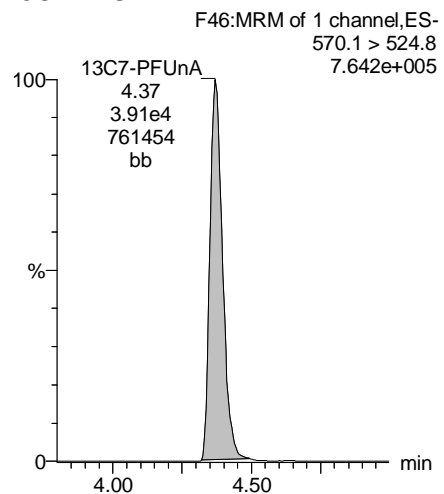
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-43.qld

Last Altered: Thursday, September 28, 2017 09:31:35 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:32:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_43, Date: 26-Sep-2017, Time: 16:28:13, ID: 1701279-09 DUP01-20170918 0.125, Description: DUP01-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.27e2	8.24e3	0.11418		3.17	3.13	0.193	1.88	
2	4 PFHxA	313.2 > 268.9	3.92e4	1.18e4	0.11418		3.37	3.37	16.7	94.1	
3	5 PFHpA	363.1 > 319.1	2.76e4	4.54e4	0.11418		3.63	3.62	7.61	65.0	
4	6 L-PFHxS	399.0 > 80.0	3.75e2	3.03e3	0.11418		3.71	3.70	1.55	5.60	
5	9 L-PFOA	413 > 368.7	1.26e4	3.07e4	0.11418		3.84	3.83	5.13	40.1	
6	12 PFNA	463.1 > 419.1	2.79e3	2.84e4	0.11418		4.03	4.02	1.23	8.62	
7	14 L-PFOS	499 > 79.9	8.04e2	7.34e3	0.11418		4.08	4.07	1.37	10.7	
8	16 PFDA	513 > 468.8	8.48e2	2.15e4	0.11418		4.21	4.19	0.494	1.71	
9	18 N-MeFOSAA	570.1 > 419		6.28e3	0.11418		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.15e3	0.11418		4.32				
11	20 PFUnA	562.9 > 518.9	7.01e2	2.66e4	0.11418		4.39	4.37	0.330	2.25	
12	22 PFDoA	613.0 > 569.1		3.46e4	0.11418		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-43.qld

Last Altered: Thursday, September 28, 2017 09:31:35 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:33:11 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_43, Date: 26-Sep-2017, Time: 16:28:13, ID: 1701279-09 DUP01-20170918 0.125, Description: DUP01-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	3.46e4	0.11418		4.78					
2	25	PFTeDA	712.9 > 668.8	2.53e4	0.11418		4.99					
3	31	13C3-PFBA	216.1 > 172.1	1.65e4	1.69e4	0.11418	0.890	1.88	1.84	12.2	109.7	
4	32	13C3-PFPeA	266.1 > 222.1	3.24e4	3.83e4	0.11418	0.236	2.98	2.96	4.22	157	143.1
5	33	13C3-PFBS	302.1 > 79.9	8.24e3	3.83e4	0.11418	0.056	3.17	3.14	1.07	168	153.9
6	34	13C2-PFHxA	315 > 269.8	1.18e4	3.83e4	0.11418	0.283	3.37	3.36	1.54	47.5	108.4
7	35	13C4-PFHpA	367 > 322.1	4.54e4	3.83e4	0.11418	0.499	3.63	3.62	5.92	104	94.9
8	36	18O2-PFHxS	403 > 103.0	3.03e3	6.01e3	0.11418	0.482	3.71	3.70	6.31	115	104.7
9	37	13C2-6:2 FTS	429.1 > 408.9	5.16e3	2.66e4	0.11418	0.183	3.84	3.81	2.42	116	105.8
10	38	13C2-PFOA	414.9 > 369.7	3.07e4	2.66e4	0.11418	1.158	3.84	3.83	14.4	109	99.5
11	39	13C5-PFNA	468.1 > 423.1	2.84e4	3.88e4	0.11418	0.888	4.03	4.02	9.15	90.2	82.4
12	40	13C8-PFOSA	506.1 > 78.0	3.80e3	3.08e4	0.11418	0.143	4.04	4.02	1.54	94.7	86.5
13	41	13C8-PFOS	507 > 79.9	7.34e3	7.31e3	0.11418	1.013	4.08	4.08	12.6	109	99.1
14	42	13C2-PFDA	515.1 > 469.9	2.15e4	2.74e4	0.11418	0.876	4.21	4.20	9.78	97.8	89.3
15	43	13C2-8:2 FTS	529.1 > 508.7	4.52e3	2.74e4	0.11418	0.148	4.21	4.19	2.06	122	111.5
16	44	d3-N-MeFOSAA	573.3 > 419	6.28e3	3.08e4	0.11418	0.017	4.24	4.23	2.55	1310	92.0
17	45	d5-N-EtFOSAA	589.3 > 419	7.15e3	3.08e4	0.11418	0.019	4.32	4.30	2.90	1370	96.1
18	46	13C2-PFUnA	565 > 519.8	2.66e4	3.08e4	0.11418	0.959	4.39	4.37	10.8	98.4	89.9
19	47	13C2-PFDoA	615.1 > 570.1	3.46e4	3.08e4	0.11418	1.003	4.59	4.56	14.0	123	112.1
20	49	13C2-PFTeDA	714.8 > 669.6	2.53e4	3.08e4	0.11418	0.716	4.99	4.96	10.3	126	114.7
21	54	13C4-PFBA	217.1 > 172.1	1.69e4	1.69e4	0.11418	1.000	1.88	1.84	12.5	109	100.0
22	55	13C5-PFHxA	318 > 272.9	3.83e4	3.83e4	0.11418	1.000	3.37	3.36	5.00	43.8	100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.01e3	6.01e3	0.11418	1.000	3.71	3.69	12.5	109	100.0
24	57	13C8-PFOA	421.3 > 376	2.66e4	2.66e4	0.11418	1.000	3.84	3.83	12.5	109	100.0
25	58	13C9-PFNA	472.1 > 427.1	3.88e4	3.88e4	0.11418	1.000	4.03	4.01	12.5	109	100.0
26	59	13C4-PFOS	503 > 79.9	7.31e3	7.31e3	0.11418	1.000	4.08	4.08	12.5	109	100.0
27	60	13C6-PFDA	519.1 > 473.7	2.74e4	2.74e4	0.11418	1.000	4.21	4.20	12.5	109	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.08e4	3.08e4	0.11418	1.000	4.39	4.37	12.5	109	100.0
29	62	Total PFHxS	399.0 > 80.0	3.75e2	3.03e3	0.11418		3.71		1.55	5.60	
30	63	Total PFOA	413 > 368.7	1.26e4	3.07e4	0.11418		3.84		5.13	40.1	
31	64	Total PFOS	499 > 79.9	8.04e2	7.34e3	0.11418		4.08		1.37	10.7	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.28e3	0.11418		4.24		0.000		

Vista Analytical Laboratory

Rev'd: MM 10/8/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-43.qld

Last Altered: Thursday, September 28, 2017 09:31:35 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:33:11 Pacific Daylight Time

Name: 170926M1_43, Date: 26-Sep-2017, Time: 16:28:13, ID: 1701279-09 DUP01-20170918 0.125, Description: DUP01-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.15e3	0.11418		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-43.qld

Last Altered: Thursday, September 28, 2017 09:31:35 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:32:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_43, Date: 26-Sep-2017, Time: 16:28:13, ID: 1701279-09 DUP01-20170918 0.125, Description: DUP01-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.70	375.038	3032.819	1.546	bb	5.6

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	12571.865	30654.316	5.126	bb	40.1

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.07	804.246	7342.596	1.369	MM	10.7
2	15 Br-PFOS	499 > 79.9			7342.596		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
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Dataset: U:\Q4.PRO\results\170926M1\170926M1-43.qld

Last Altered: Thursday, September 28, 2017 09:31:35 Pacific Daylight Time

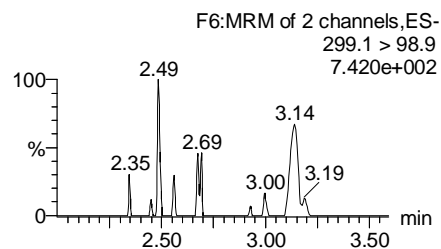
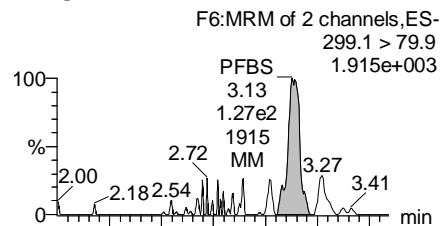
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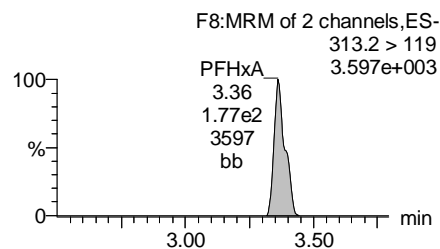
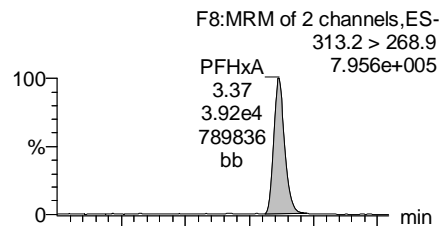
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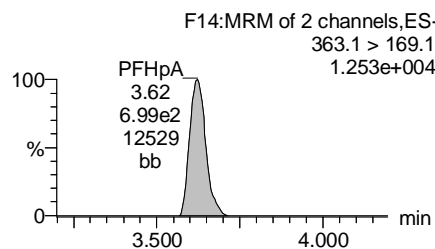
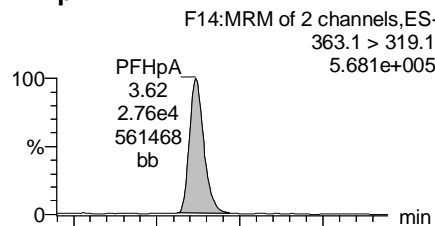
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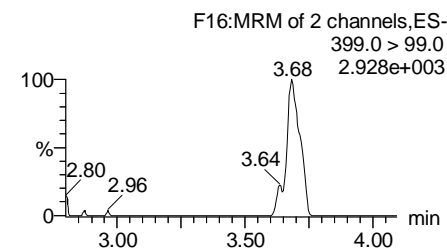
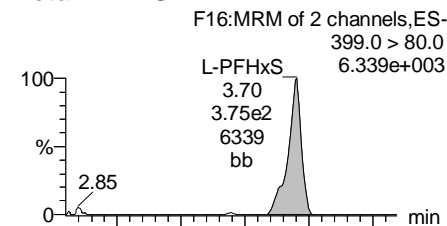
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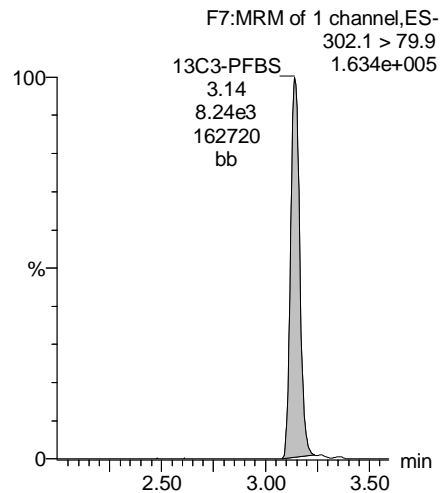
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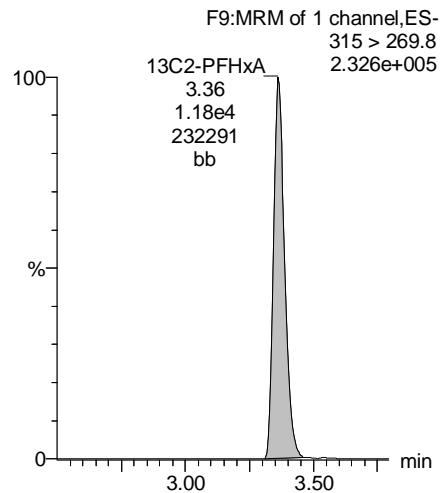
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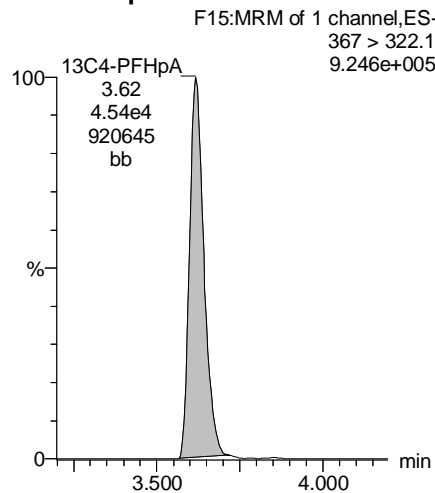
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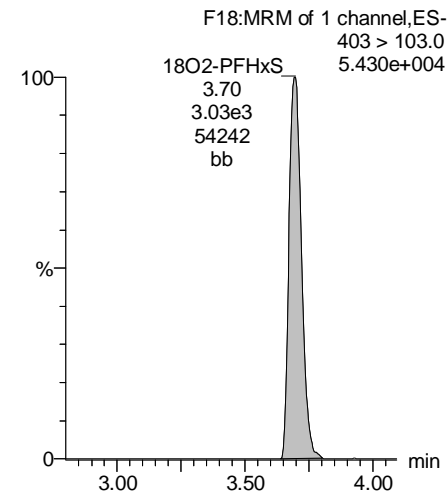
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



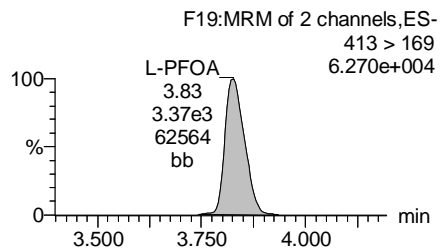
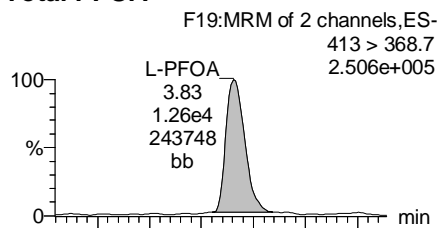
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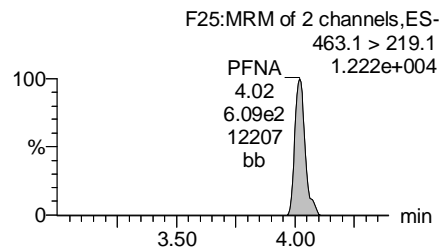
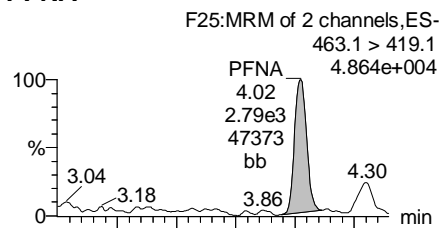
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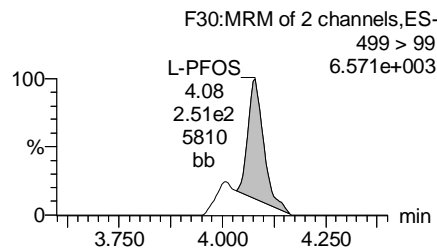
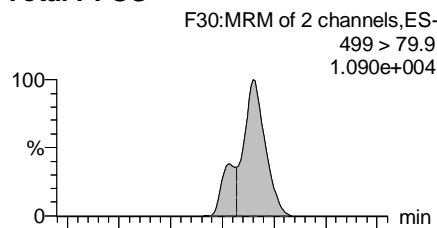
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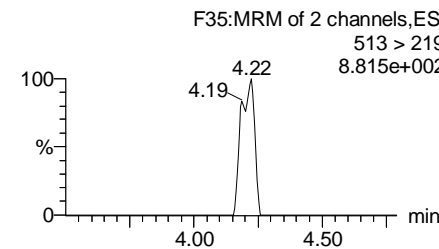
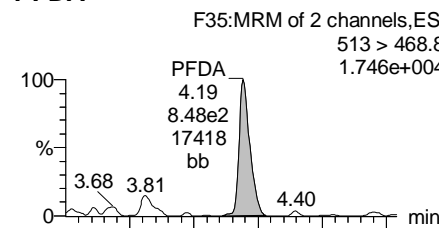
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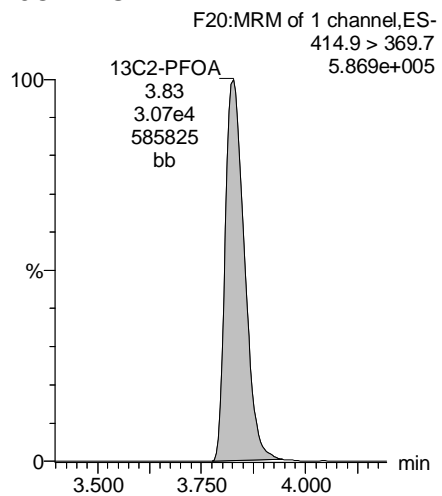
Total PFOS



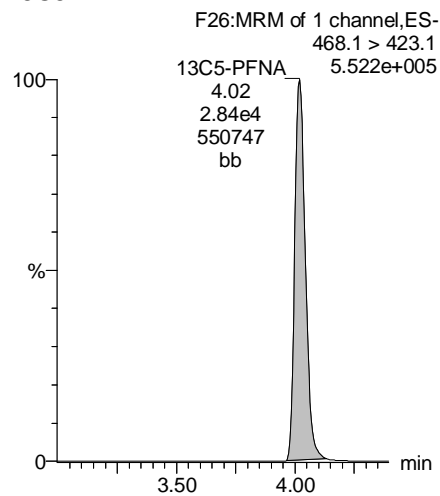
PFDA



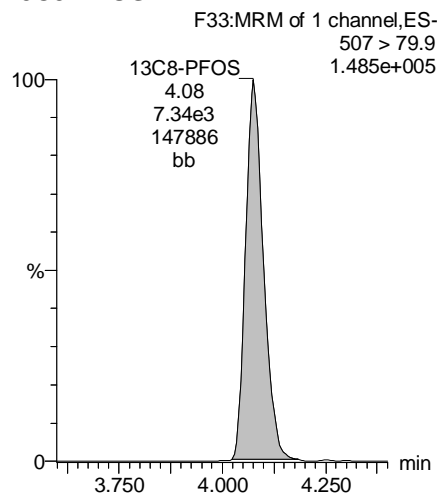
13C2-PFOA



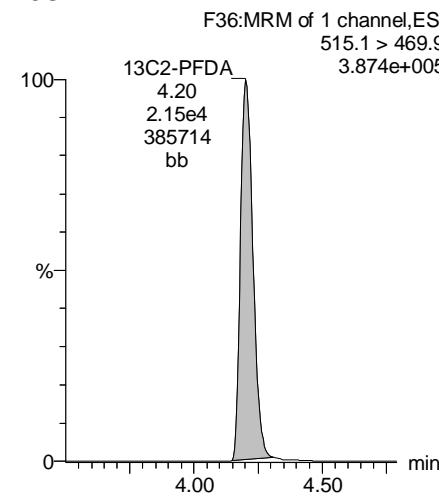
13C5-PFNA



13C8-PFOS



13C2-PFDA



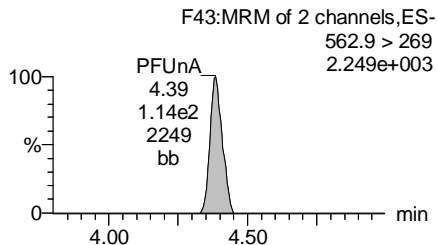
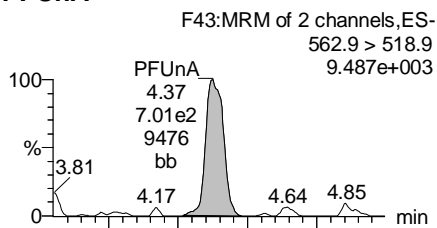
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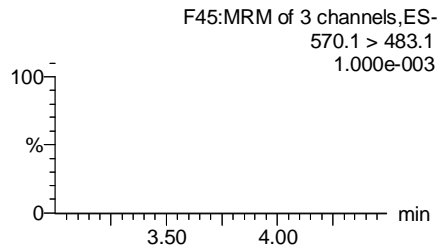
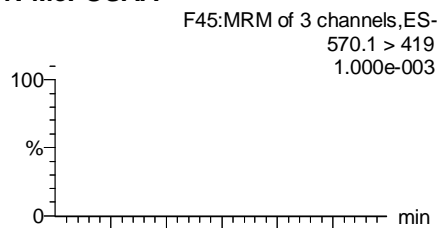
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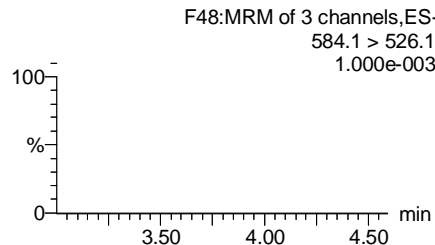
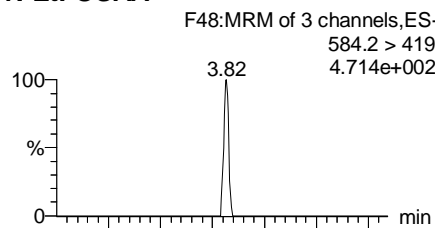
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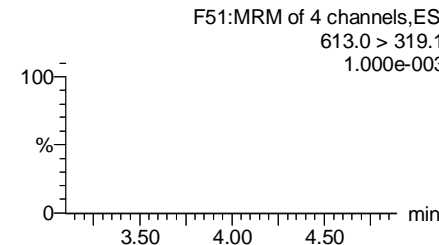
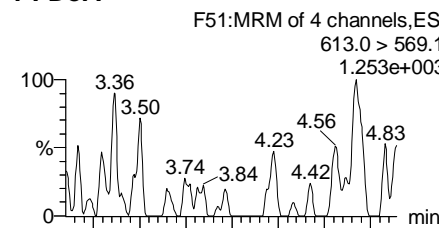
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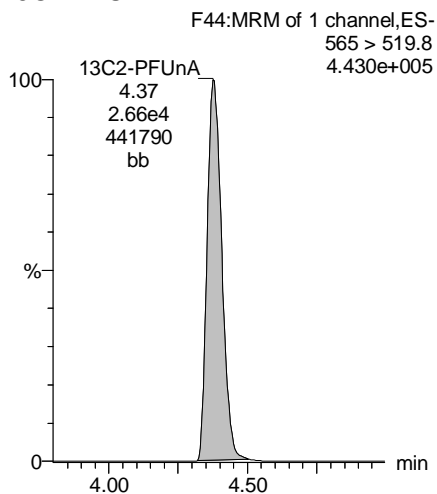
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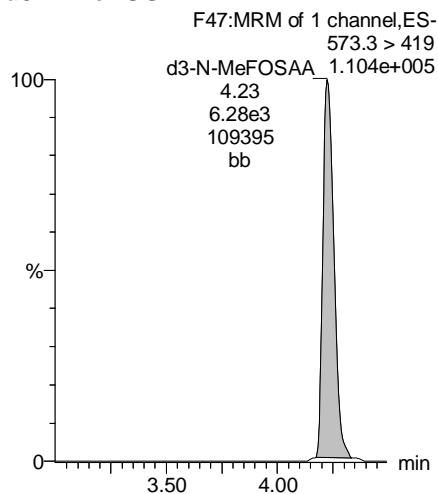
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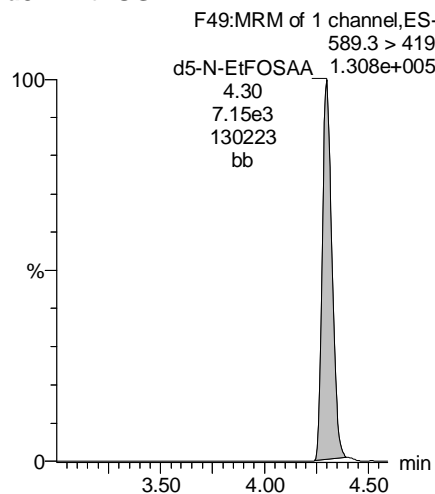
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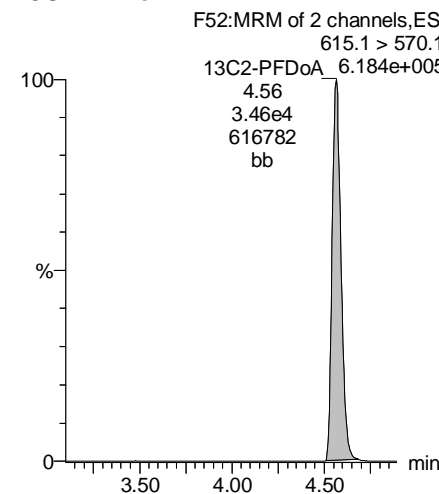
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



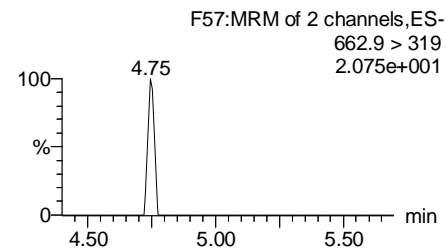
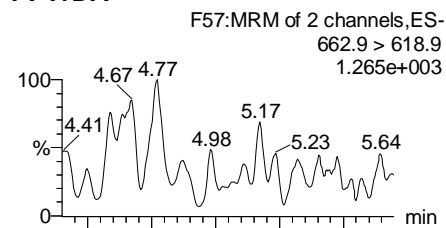
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Last Altered: Thursday, September 28, 2017 09:31:35 Pacific Daylight Time

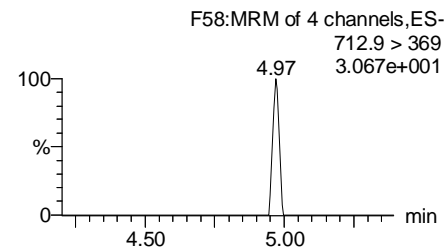
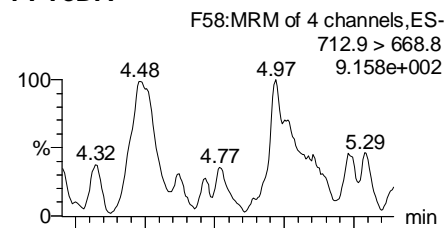
Printed: Thursday, September 28, 2017 09:32:27 Pacific Daylight Time

Name: 170926M1_43, Date: 26-Sep-2017, Time: 16:28:13, ID: 1701279-09 DUP01-20170918 0.125, Description: DUP01-20170918

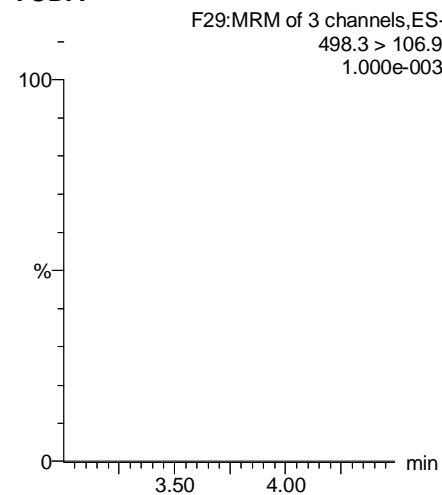
PFTrDA



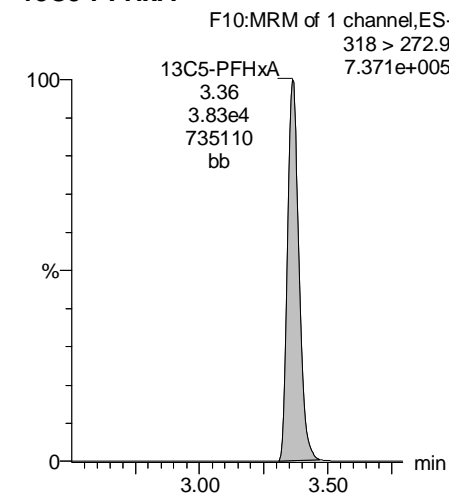
PFTeDA



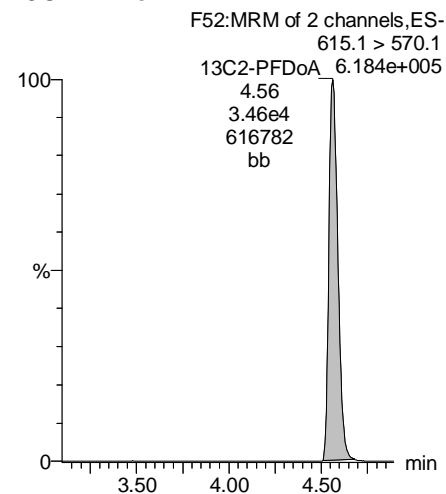
TCDA



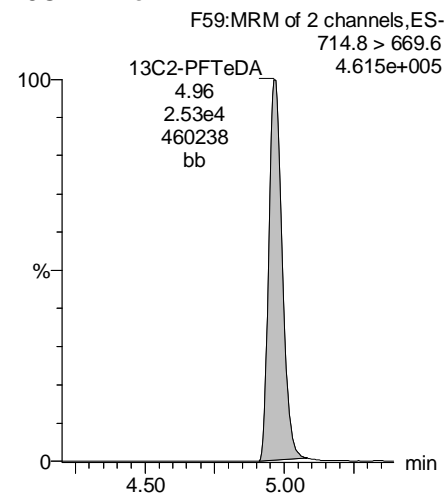
13C5-PFHxA



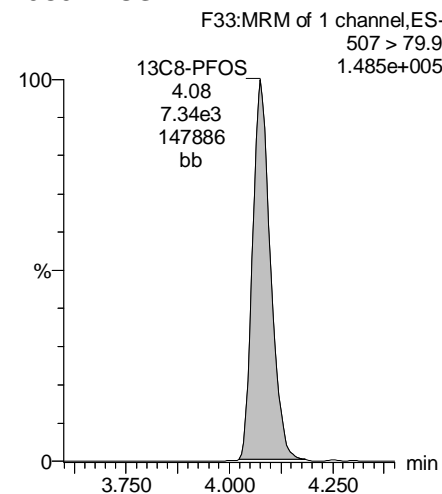
13C2-PFDoA



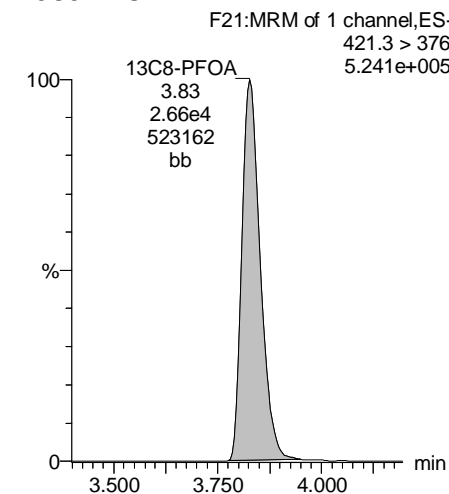
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



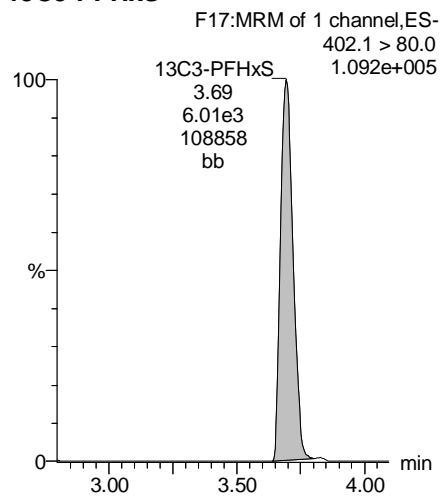
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Last Altered: Thursday, September 28, 2017 09:31:35 Pacific Daylight Time

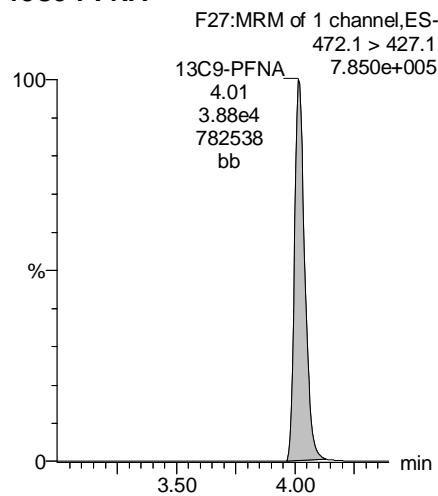
Printed: Thursday, September 28, 2017 09:32:27 Pacific Daylight Time

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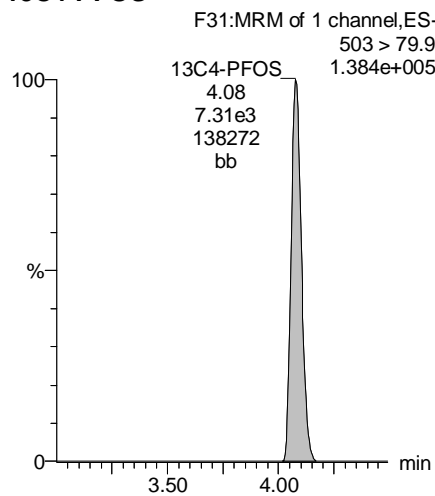
13C3-PFHxS



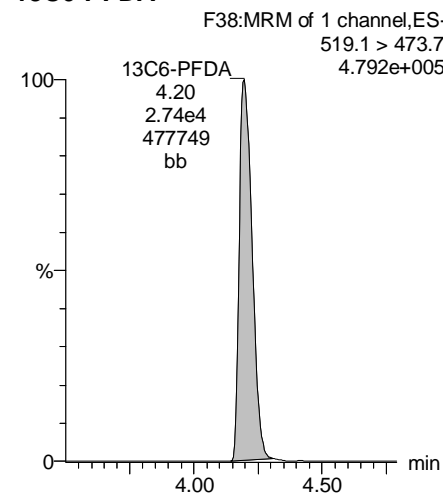
13C9-PFNA



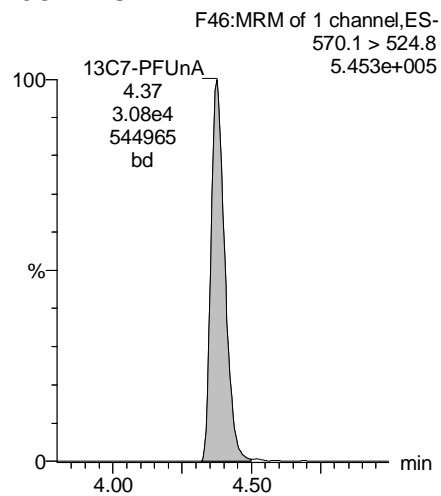
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-44.qld

Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:40:21 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.48e2	8.74e3	0.11110		3.17	3.15	0.211	2.09	
2	4 PFHxA	313.2 > 268.9	3.56e4	1.03e4	0.11110		3.37	3.36	17.3	100	
3	5 PFHpA	363.1 > 319.1	2.68e4	4.20e4	0.11110		3.63	3.62	7.98	70.1	
4	6 L-PFHxS	399.0 > 80.0	3.76e2	3.45e3	0.11110		3.71	3.69	1.36	5.05	
5	9 L-PFOA	413 > 368.7	1.17e4	3.11e4	0.11110		3.84	3.83	4.71	37.7	
6	12 PFNA	463.1 > 419.1	2.56e3	2.92e4	0.11110		4.03	4.01	1.10	7.81	
7	14 L-PFOS	499 > 79.9	2.61e2	7.21e3	0.11110		4.08	4.01	0.453	3.16	
8	16 PFDA	513 > 468.8	4.44e2	2.36e4	0.11110		4.21	4.20	0.235	0.171	
9	18 N-MeFOSAA	570.1 > 419		6.78e3	0.11110		4.24				
10	19 N-EtFOSAA	584.2 > 419		6.25e3	0.11110		4.32				
11	20 PFUnA	562.9 > 518.9	1.99e2	3.01e4	0.11110		4.39	4.37	0.0828	0.0714	
12	22 PFDoA	613.0 > 569.1		2.72e4	0.11110		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-44.qld

Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:40:49 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	2.72e4	0.11110		4.78					
2	25	PFTeDA	712.9 > 668.8	2.46e4	0.11110		4.99					
3	31	13C3-PFBA	216.1 > 172.1	1.91e4	2.18e4	0.11110	0.890	1.88	1.83	10.9	111	98.4
4	32	13C3-PFPeA	266.1 > 222.1	2.84e4	3.64e4	0.11110	0.236	2.98	2.96	3.90	149	132.2
5	33	13C3-PFBS	302.1 > 79.9	8.74e3	3.64e4	0.11110	0.056	3.17	3.14	1.20	193	171.7
6	34	13C2-PFHxA	315 > 269.8	1.03e4	3.64e4	0.11110	0.283	3.37	3.36	1.42	45.0	100.0
7	35	13C4-PFHpA	367 > 322.1	4.20e4	3.64e4	0.11110	0.499	3.63	3.62	5.76	104	92.3
8	36	18O2-PFHxS	403 > 103.0	3.45e3	6.54e3	0.11110	0.482	3.71	3.69	6.60	123	109.5
9	37	13C2-6:2 FTS	429.1 > 408.9	5.20e3	2.91e4	0.11110	0.183	3.84	3.81	2.23	110	97.5
10	38	13C2-PFOA	414.9 > 369.7	3.11e4	2.91e4	0.11110	1.158	3.84	3.83	13.3	104	92.2
11	39	13C5-PFNA	468.1 > 423.1	2.92e4	3.80e4	0.11110	0.888	4.03	4.01	9.59	97.2	86.4
12	40	13C8-PFOSA	506.1 > 78.0	3.31e3	3.49e4	0.11110	0.143	4.04	4.02	1.19	74.9	66.6
13	41	13C8-PFOS	507 > 79.9	7.21e3	7.60e3	0.11110	1.013	4.08	4.07	11.9	105	93.7
14	42	13C2-PFDA	515.1 > 469.9	2.36e4	3.24e4	0.11110	0.876	4.21	4.19	9.10	93.6	83.2
15	43	13C2-8:2 FTS	529.1 > 508.7	3.40e3	3.24e4	0.11110	0.148	4.21	4.19	1.31	80.1	71.2
16	44	d3-N-MeFOSAA	573.3 > 419	6.78e3	3.49e4	0.11110	0.017	4.24	4.22	2.43	1280	87.7
17	45	d5-N-EtFOSAA	589.3 > 419	6.25e3	3.49e4	0.11110	0.019	4.32	4.29	2.24	1080	74.1
18	46	13C2-PFUnA	565 > 519.8	3.01e4	3.49e4	0.11110	0.959	4.39	4.37	10.8	101	90.0
19	47	13C2-PFDoA	615.1 > 570.1	2.72e4	3.49e4	0.11110	1.003	4.59	4.56	9.75	87.6	77.8
20	49	13C2-PFTeDA	714.8 > 669.6	2.46e4	3.49e4	0.11110	0.716	4.99	4.96	8.82	111	98.5
21	54	13C4-PFBA	217.1 > 172.1	2.18e4	2.18e4	0.11110	1.000	1.88	1.83	12.5	113	100.0
22	55	13C5-PFHxA	318 > 272.9	3.64e4	3.64e4	0.11110	1.000	3.37	3.36	5.00	45.0	100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.54e3	6.54e3	0.11110	1.000	3.71	3.69	12.5	113	100.0
24	57	13C8-PFOA	421.3 > 376	2.91e4	2.91e4	0.11110	1.000	3.84	3.83	12.5	113	100.0
25	58	13C9-PFNA	472.1 > 427.1	3.80e4	3.80e4	0.11110	1.000	4.03	4.01	12.5	113	100.0
26	59	13C4-PFOS	503 > 79.9	7.60e3	7.60e3	0.11110	1.000	4.08	4.08	12.5	113	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.24e4	3.24e4	0.11110	1.000	4.21	4.20	12.5	113	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.49e4	3.49e4	0.11110	1.000	4.39	4.37	12.5	113	100.0
29	62	Total PFHxS	399.0 > 80.0	3.76e2	3.45e3	0.11110		3.71		1.36	5.05	
30	63	Total PFOA	413 > 368.7	1.17e4	3.11e4	0.11110		3.84		4.71	37.7	
31	64	Total PFOS	499 > 79.9	2.61e2	7.21e3	0.11110		4.08		0.453	3.16	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.78e3	0.11110		4.24		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-44.qld

Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:40:49 Pacific Daylight Time

Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	6.25e3	0.11110		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-44.qld

Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:40:21 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	375.517	3451.166	1.360	MM	5.0

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	11726.805	31102.865	4.713	bb	37.7

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15 Br-PFOS	499 > 79.9			7207.339		MM-I	
2	14 L-PFOS	499 > 79.9	4.01	260.910	7207.339	0.453	MM	3.2

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-44.qld

Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

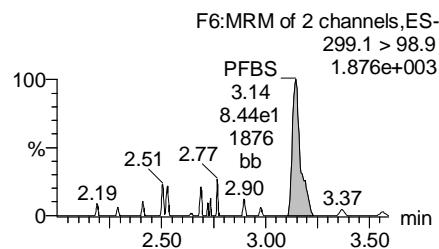
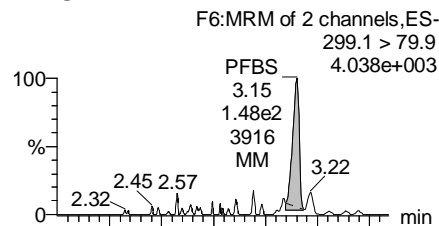
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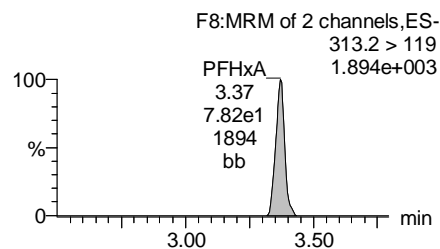
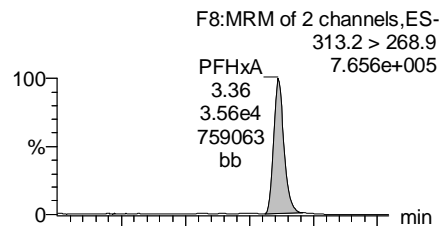
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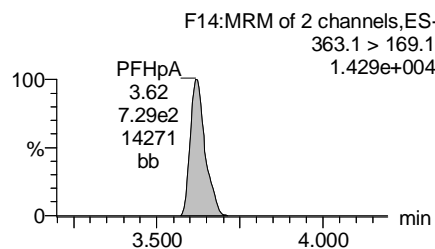
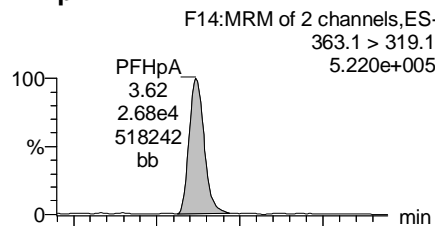
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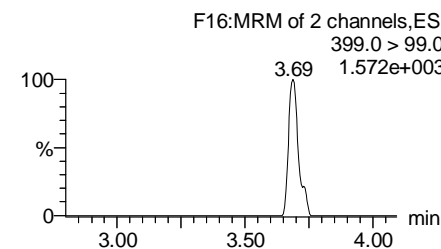
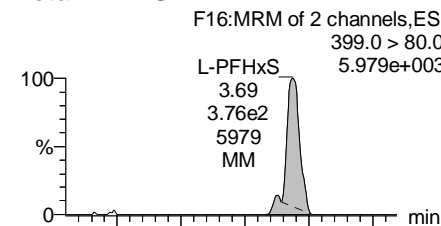
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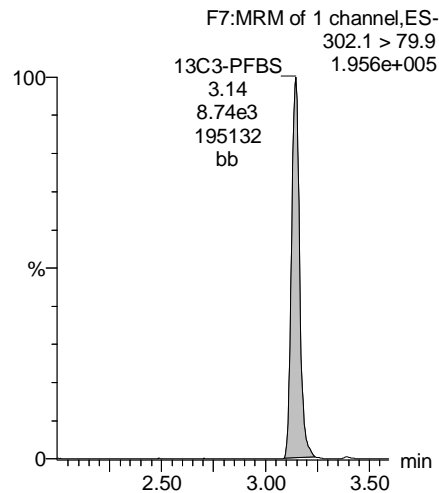
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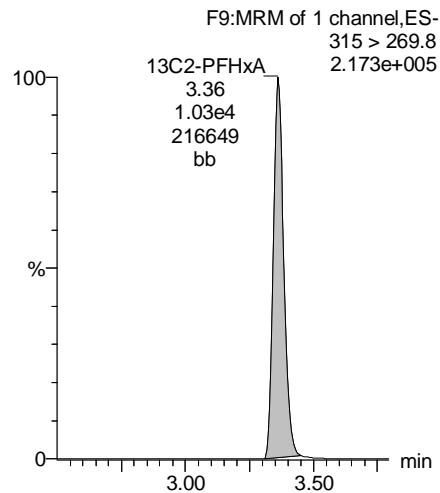
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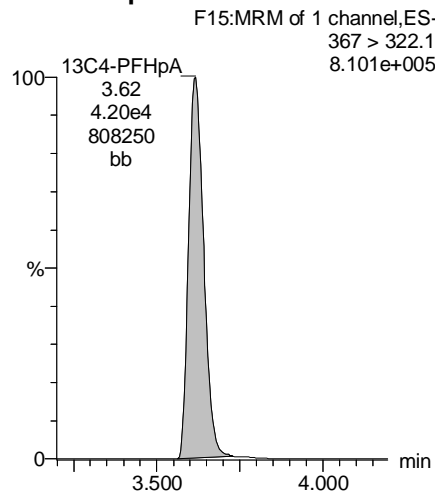
13C3-PFBS



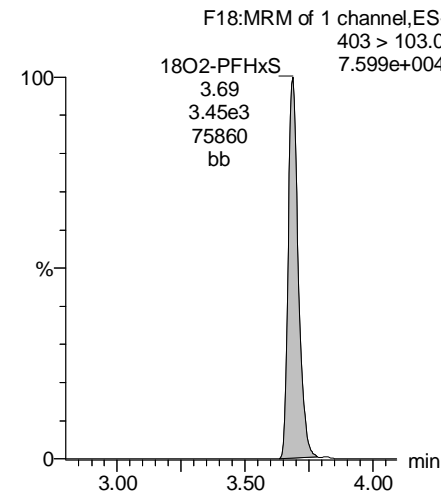
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



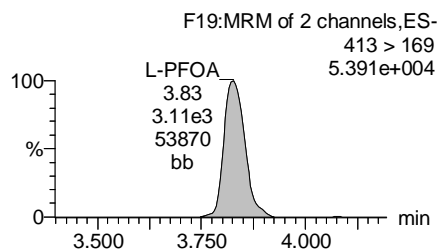
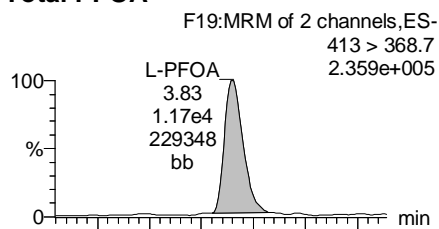
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Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

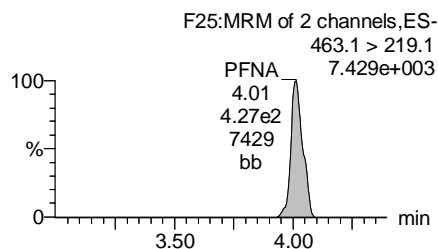
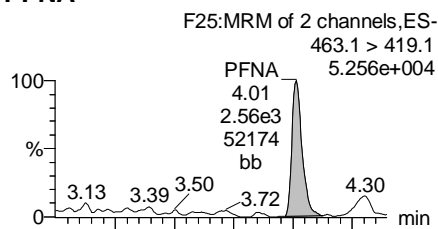
Printed: Thursday, September 28, 2017 09:40:21 Pacific Daylight Time

Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

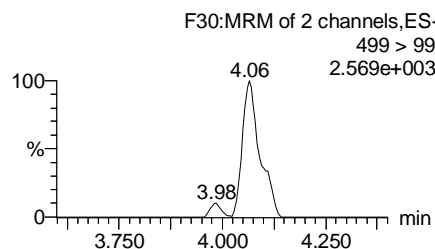
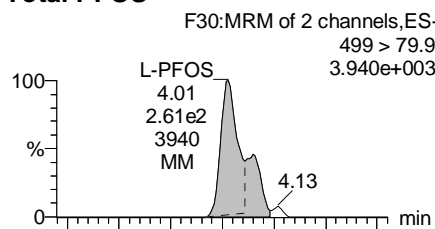
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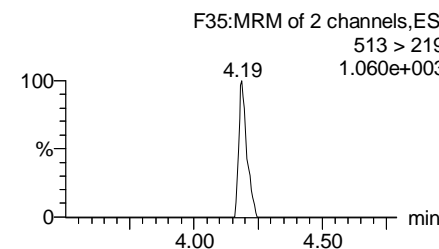
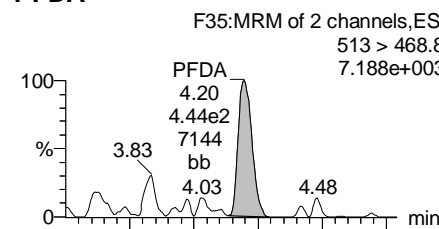
PFNA



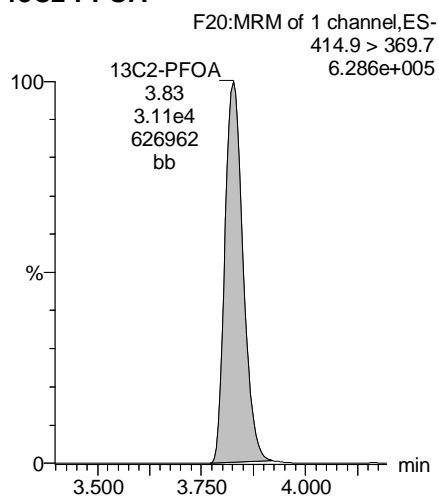
Total PFOS



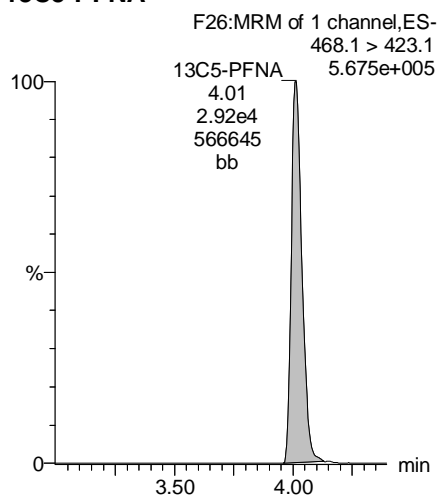
PFDA



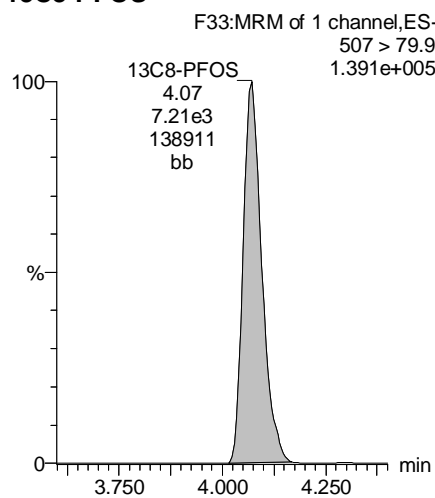
13C2-PFOA



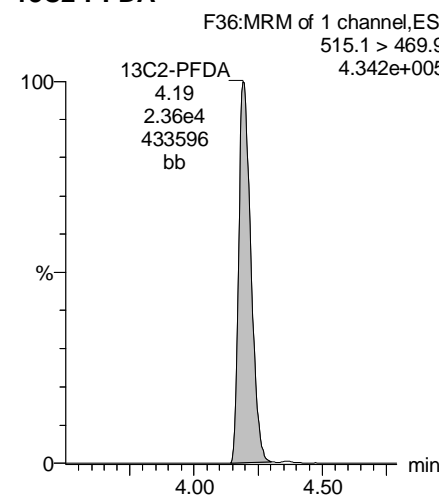
13C5-PFNA



13C8-PFOS



13C2-PFDA



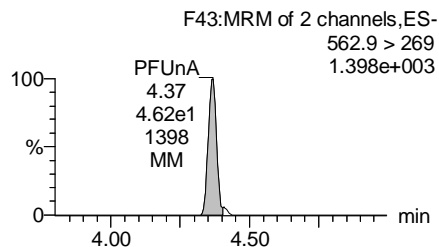
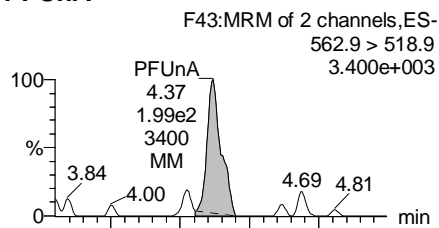
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Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

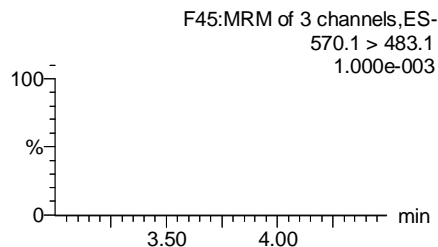
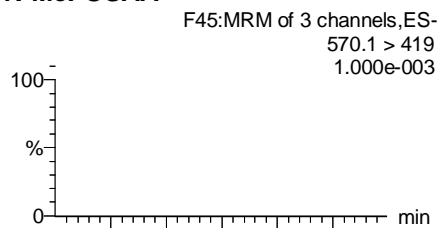
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Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

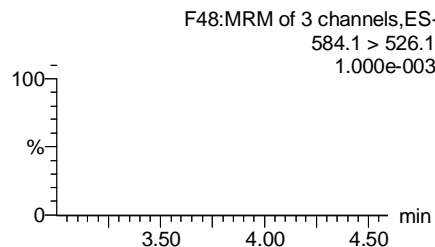
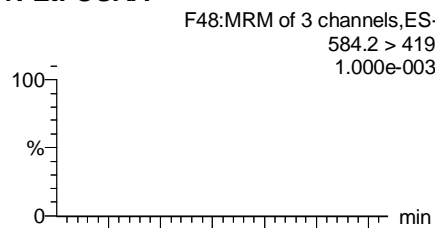
PFUnA



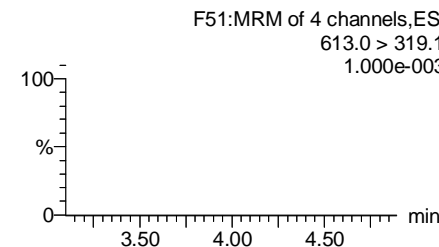
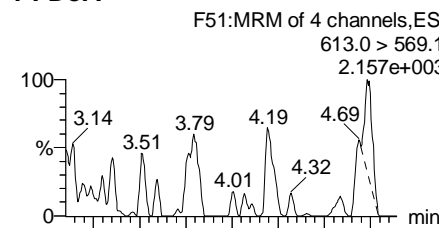
N-MeFOSAA



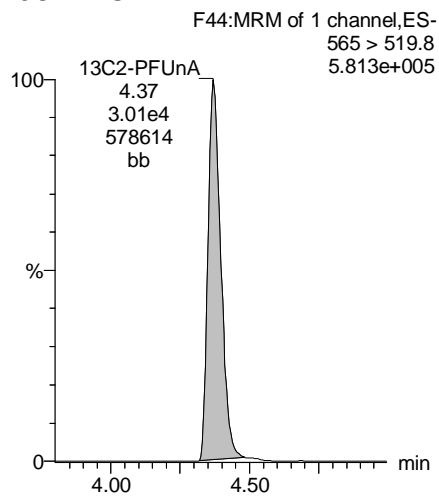
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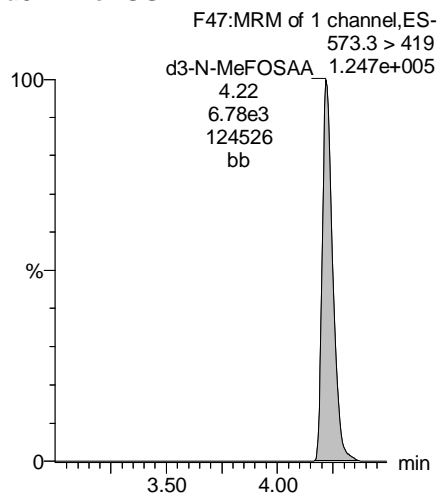
PFDaA



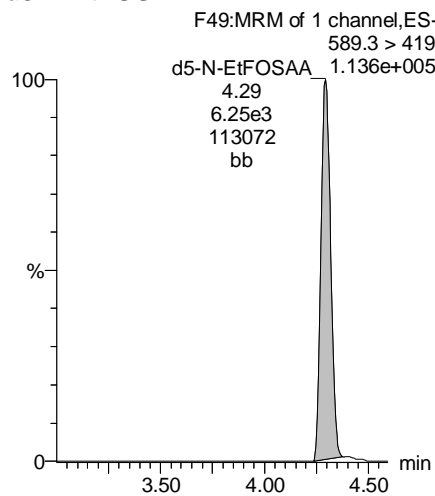
13C2-PFUnA



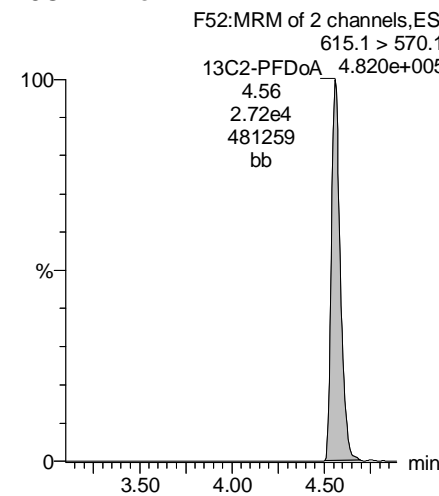
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



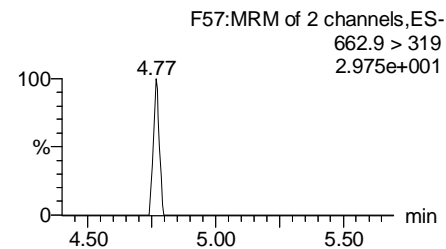
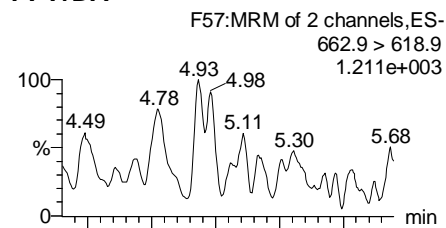
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Last Altered: Thursday, September 28, 2017 09:39:18 Pacific Daylight Time

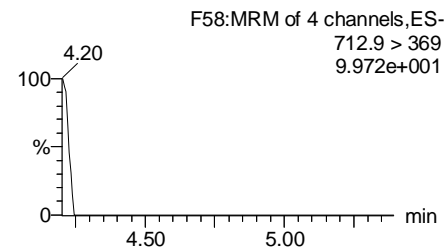
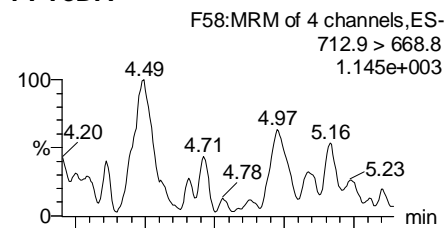
Printed: Thursday, September 28, 2017 09:40:21 Pacific Daylight Time

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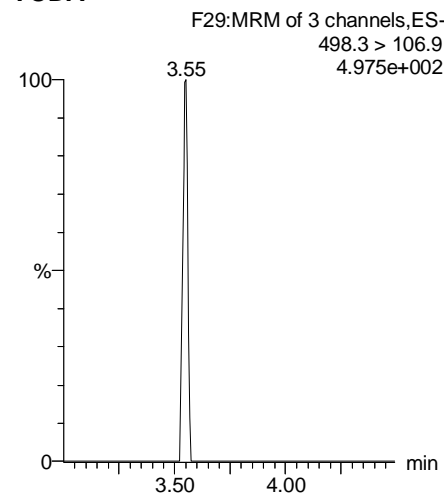
PFTrDA



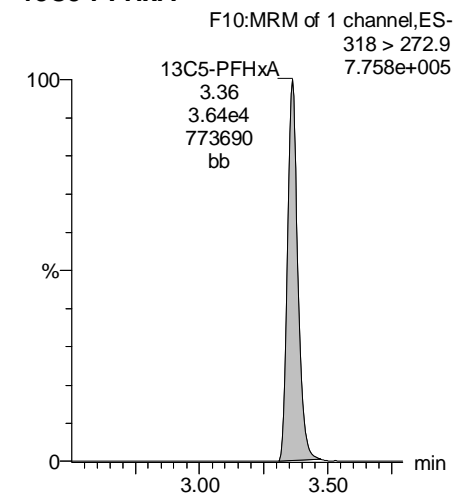
PFTeDA



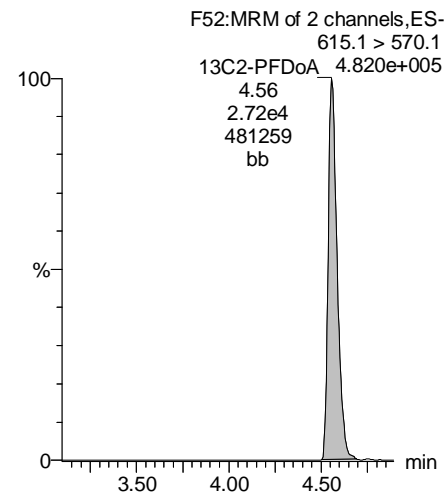
TCDA



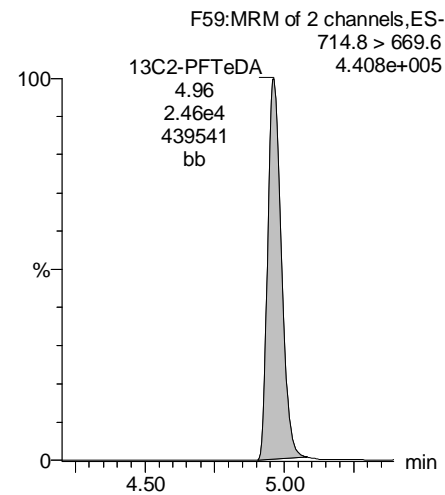
13C5-PFHxA



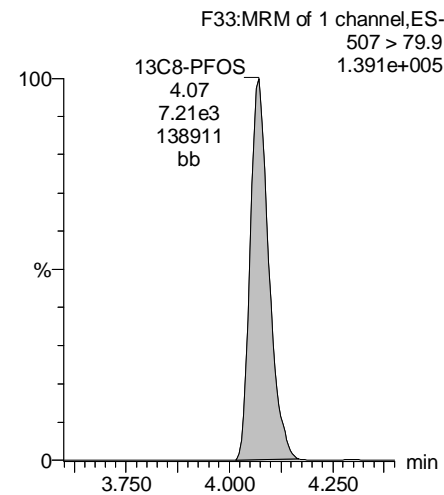
13C2-PFDoA



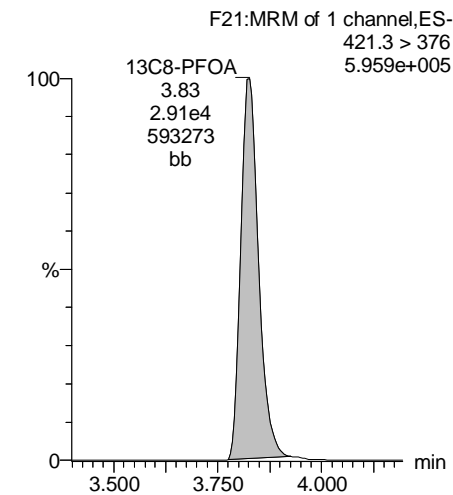
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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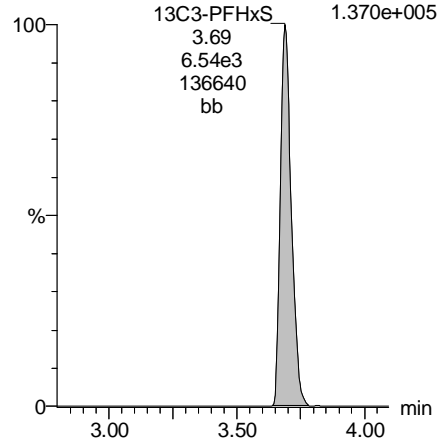
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Printed: Thursday, September 28, 2017 09:40:21 Pacific Daylight Time

Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

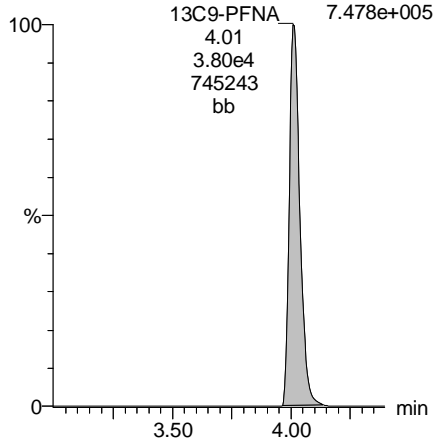
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
1.370e+005



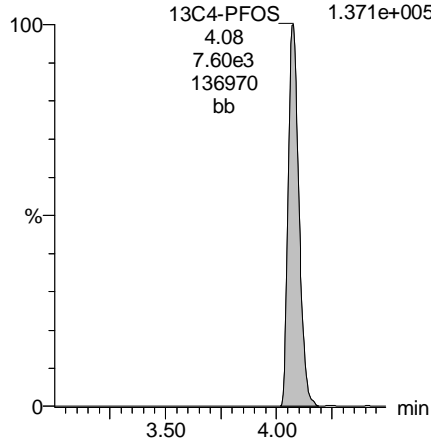
13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
7.478e+005



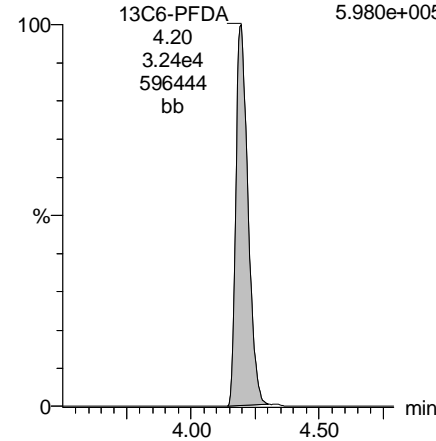
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.371e+005



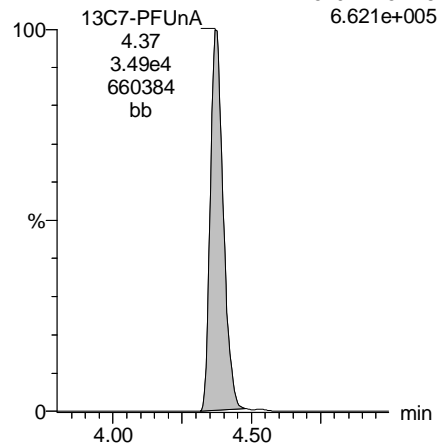
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
5.980e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
6.621e+005



Dataset: U:\Q4.PRO\results\170928M3\170928M3-70.qld

Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:15:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.83e2	9.39e3	0.1111 ⁴		2.76	2.79	0.243	1.81	
2	4 PFHxA	313.2 > 268.9	4.28e4	1.21e4	0.1111 ⁴		3.04	3.07	17.7	99.5	
3	5 PFHpA	363.1 > 319.1	3.35e4	5.20e4	0.1111 ⁴		3.33	3.35	8.07	73.1	
4	6 L-PFHxS	399.0 > 80.0	5.82e2	3.72e3	0.1111 ⁴		3.41	3.43	1.96	7.08	
5	9 L-PFOA	413 > 368.7	1.58e4	3.93e4	0.1111 ⁴		3.54	3.56	5.03	42.1	
6	12 PFNA	463.1 > 419.1	3.61e3	3.63e4	0.1111 ⁴		3.72	3.74	1.24	9.49	
7	14 L-PFOS	499 > 79.9	6.24e2	9.00e3	0.1111 ⁴		3.77	3.79	0.867	6.90	
8	16 PFDA	513 > 468.8		3.37e4	0.1111 ⁴		3.89				
9	18 N-MeFOSAA	570.1 > 419		3.19e3	0.1111 ⁴		3.92				
10	19 N-EtFOSAA	584.2 > 419		3.54e3	0.1111 ⁴		3.99				
11	20 PFUnA	562.9 > 518.9	1.52e2	4.41e4	0.1111 ⁴		4.04	4.07	0.0432	0.221	
12	22 PFDaA	613.0 > 569.1		4.75e4	0.1111 ⁴		4.19				

Dataset: U:\Q4.PRO\results\170928M3\170928M3-70.qld

Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:16:20 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	4.75e4	0.1111 ^z		4.34					
2	25	PFTeDA	712.9 > 668.8	1.75e4	0.1111 ^z		4.49					
3	31	13C3-PFBA	216.1 > 172.1	1.76e4	2.04e4	0.1111 ^z	0.860	1.27	1.27	10.8	113	100.1
4	32	13C3-PFPeA	266.1 > 222.1	3.45e4	4.34e4	0.1111 ^z	0.227	2.46	2.51	3.98	158	140.2
5	33	13C3-PFBS	302.1 > 79.9	9.39e3	4.34e4	0.1111 ^z	0.056	2.76	2.78	1.08	175	155.2
6	34	13C2-PFHxA	315 > 269.8	1.21e4	4.34e4	0.1111 ^z	0.279	3.04	3.07	1.39	45.0	100.1
7	35	13C4-PFHpA	367 > 322.1	5.20e4	4.34e4	0.1111 ^z	0.719	3.33	3.36	5.99	75.0	66.7
8	36	18O2-PFHxS	403 > 103.0	3.72e3	8.16e3	0.1111 ^z	0.477	3.41	3.43	5.70	108	95.6
9	37	13C2-6:2 FTS	429.1 > 408.9	3.87e3	3.84e4	0.1111 ^z	0.129	3.54	3.56	1.26	87.6	77.9
10	38	13C2-PFOA	414.9 > 369.7	3.93e4	3.84e4	0.1111 ^z	1.167	3.54	3.56	12.8	98.5	87.6
11	39	13C5-PFNA	468.1 > 423.1	3.63e4	5.05e4	0.1111 ^z	0.856	3.72	3.74	9.00	94.6	84.1
12	40	13C8-PFOA	506.1 > 78.0	1.80e4	5.37e4	0.1111 ^z	0.467	4.75	4.76	4.18	80.6	71.7
13	41	13C8-PFOS	507 > 79.9	9.00e3	9.37e3	0.1111 ^z	0.983	3.77	3.79	12.0	110	97.6
14	42	13C2-PFDA	515.1 > 469.9	3.37e4	4.40e4	0.1111 ^z	0.859	3.89	3.91	9.58	100	89.2
15	43	13C2-8:2 FTS	529.1 > 508.7	3.05e3	4.40e4	0.1111 ^z	0.091	3.88	3.90	0.866	85.2	75.7
16	44	d3-N-MeFOSAA	573.3 > 419	3.19e3	5.37e4	0.1111 ^z	0.007	3.92	3.95	0.742	1020	70.1
17	45	d5-N-EtFOSAA	589.3 > 419	3.54e3	5.37e4	0.1111 ^z	0.007	3.99	4.02	0.824	1040	71.3
18	46	13C2-PFUnA	565 > 519.8	4.41e4	5.37e4	0.1111 ^z	0.938	4.04	4.07	10.3	98.6	87.6
19	47	13C2-PFDoA	615.1 > 570.1	4.75e4	5.37e4	0.1111 ^z	0.966	4.19	4.21	11.1	103	91.7
20	49	13C2-PFTeDA	714.8 > 669.6	1.75e4	5.37e4	0.1111 ^z	0.362	4.49	4.52	4.08	101	90.1
21	54	13C4-PFBA	217.1 > 172.1	2.04e4	2.04e4	0.1111 ^z	1.000	1.27	1.27	12.5	112	100.0
22	55	13C5-PFHxA	318 > 272.9	4.34e4	4.34e4	0.1111 ^z	1.000	3.04	3.07	5.00	45.0	100.0
23	56	13C3-PFHxS	402.1 > 80.0	8.16e3	8.16e3	0.1111 ^z	1.000	3.41	3.43	12.5	112	100.0
24	57	13C8-PFOA	421.3 > 376	3.84e4	3.84e4	0.1111 ^z	1.000	3.54	3.56	12.5	112	100.0
25	58	13C9-PFNA	472.1 > 427.1	5.05e4	5.05e4	0.1111 ^z	1.000	3.72	3.74	12.5	112	100.0
26	59	13C4-PFOS	503 > 79.9	9.37e3	9.37e3	0.1111 ^z	1.000	3.77	3.79	12.5	112	100.0
27	60	13C6-PFDA	519.1 > 473.7	4.40e4	4.40e4	0.1111 ^z	1.000	3.89	3.90	12.5	112	100.0
28	61	13C7-PFUnA	570.1 > 524.8	5.37e4	5.37e4	0.1111 ^z	1.000	4.04	4.07	12.5	112	100.0
29	62	Total PFHxS	399.0 > 80.0	5.82e2	3.72e3	0.1111 ^z		3.41		1.96	7.08	
30	63	Total PFOA	413 > 368.7	1.58e4	3.93e4	0.1111 ^z		3.54		5.03	42.1	
31	64	Total PFOS	499 > 79.9	6.24e2	9.00e3	0.1111 ^z		3.77		0.867	6.90	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.19e3	0.1111 ^z		3.92		0.000		

Vista Analytical Laboratory

Rev'd: MM 10/8/17

Dataset: U:\Q4.PRO\results\170928M3\170928M3-70.qld

Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:16:20 Pacific Daylight Time

Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.54e3	0.11114		3.99		0.000		

Dataset: U:\Q4.PRO\results\170928M3\170928M3-70.qld

Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:15:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.43	581.991	3719.961	1.956	MM	7.1

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.56	15811.436	39286.219	5.031	bb	42.1

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	3.79	624.189	8999.632	0.867	bb	6.9

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
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Dataset: U:\Q4.PRO\results\170928M3\170928M3-70.qld

Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

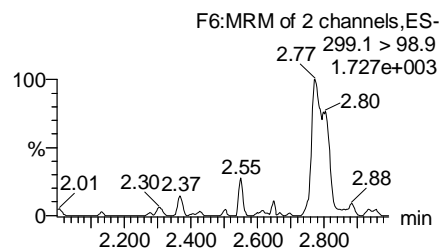
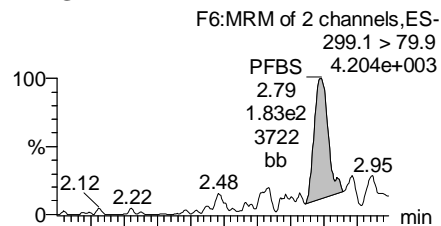
Printed: Monday, October 02, 2017 13:15:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

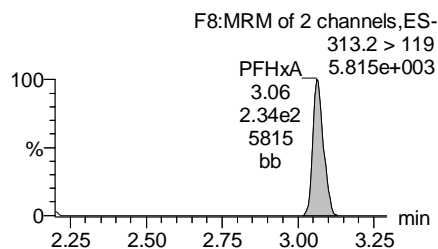
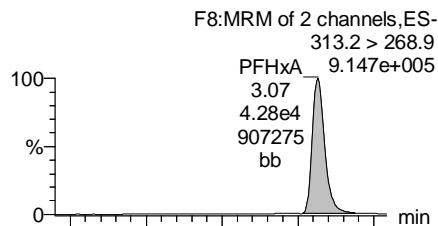
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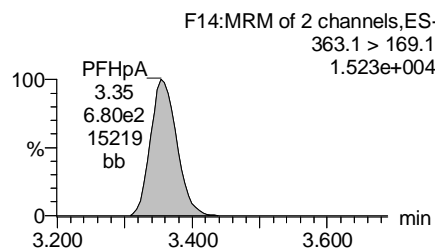
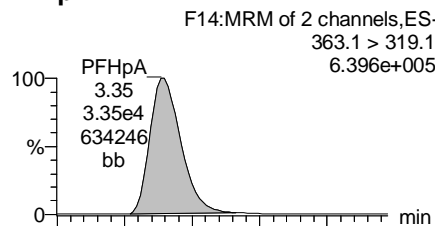
PFBS



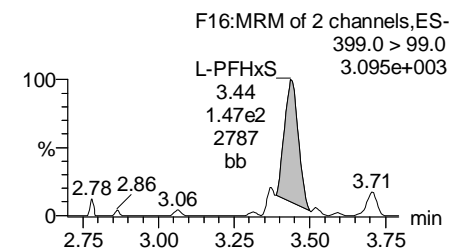
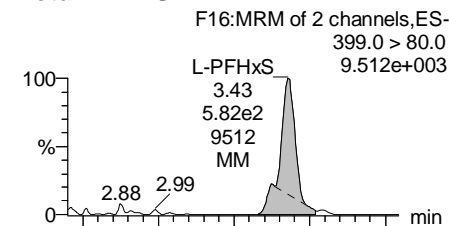
PFHxA



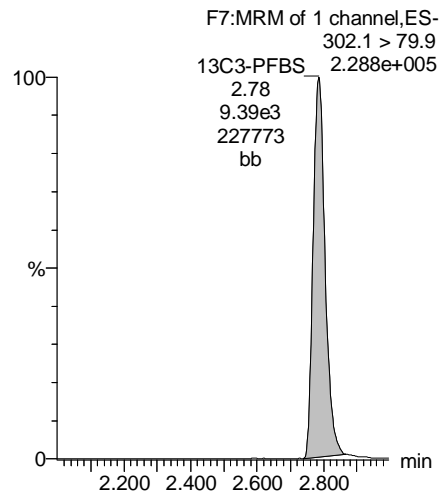
PFHpA



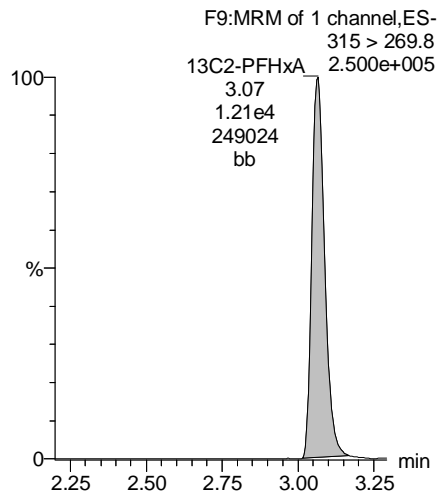
Total PFHxS



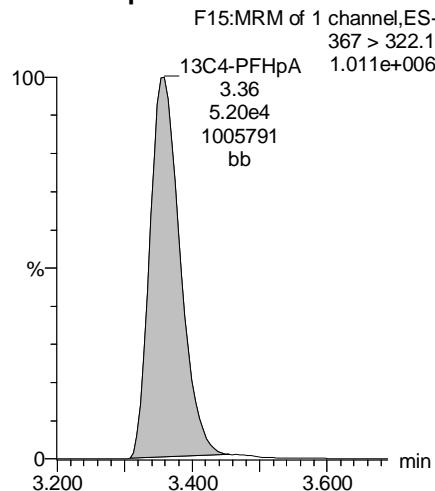
13C3-PFBS



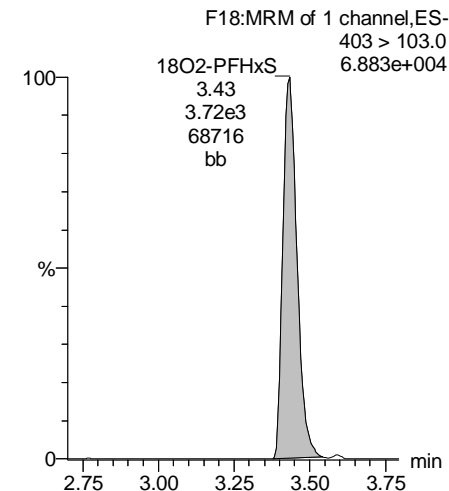
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



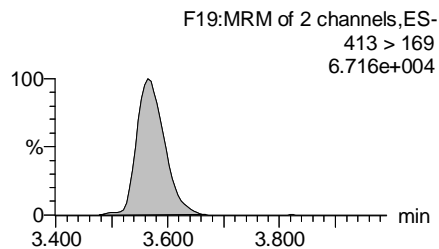
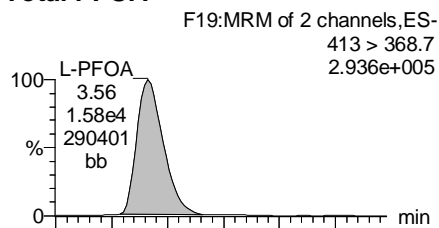
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Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

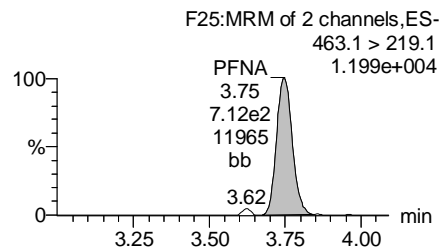
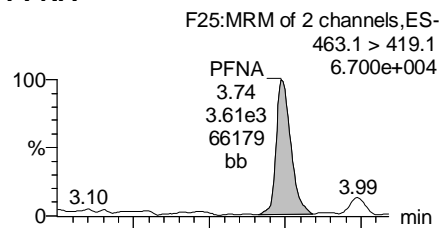
Printed: Monday, October 02, 2017 13:15:29 Pacific Daylight Time

Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

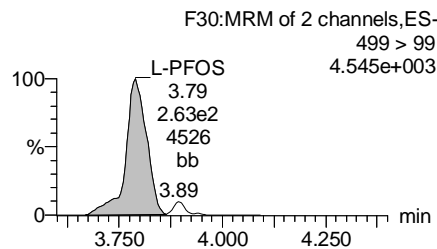
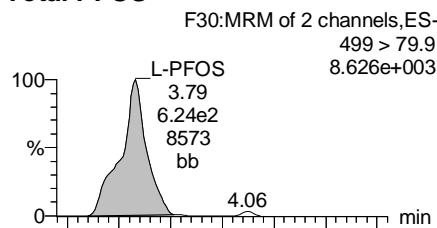
Total PFOA



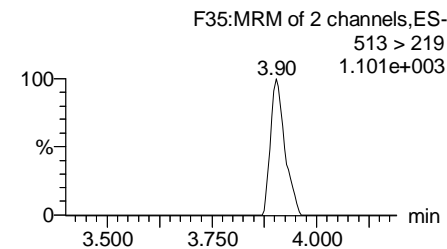
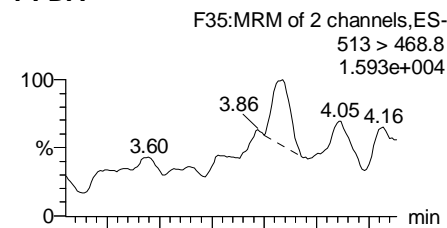
PFNA



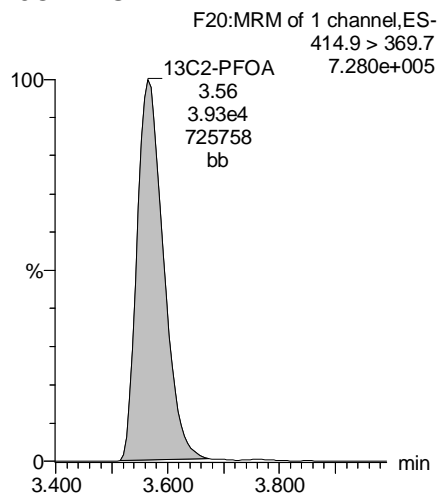
Total PFOS



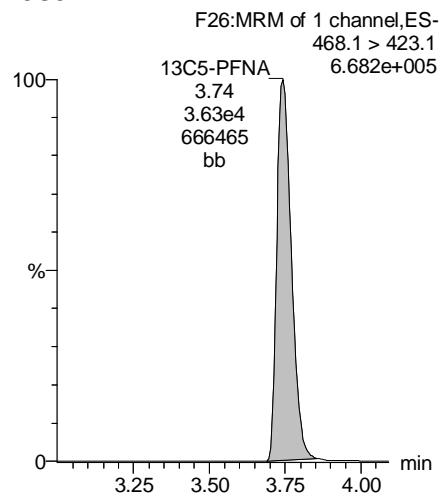
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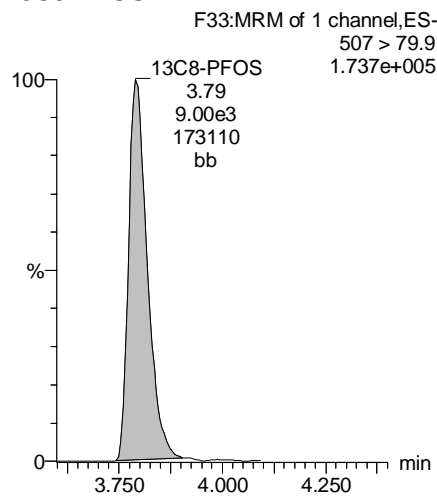
13C2-PFOA



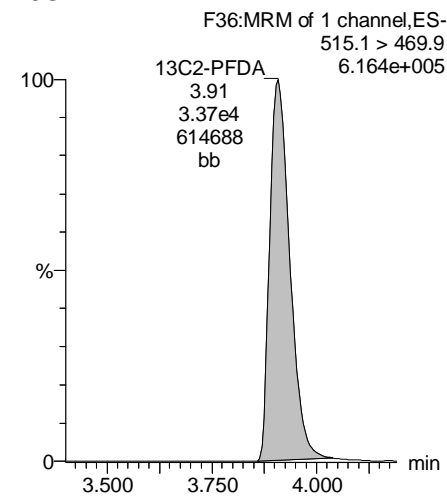
13C5-PFNA



13C8-PFOS



13C2-PFDA



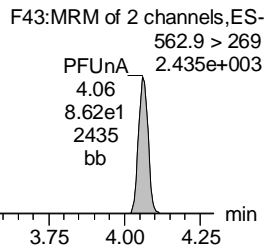
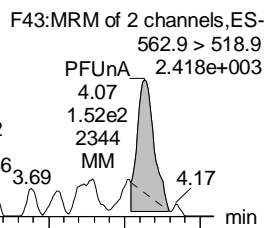
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Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

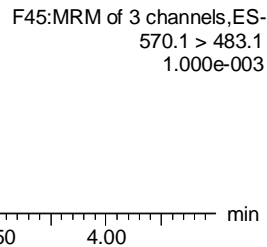
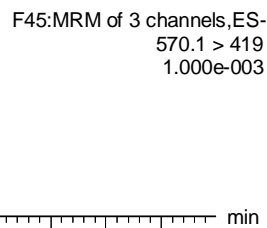
Printed: Monday, October 02, 2017 13:15:29 Pacific Daylight Time

Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

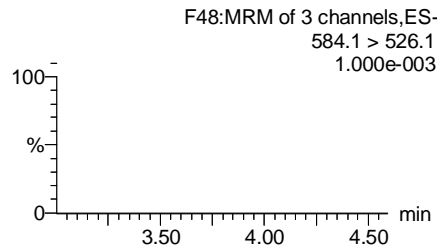
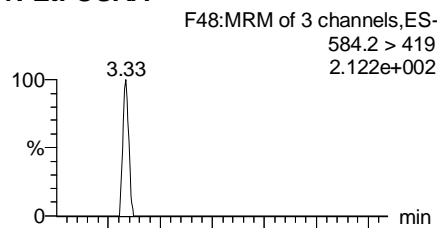
PFUnA



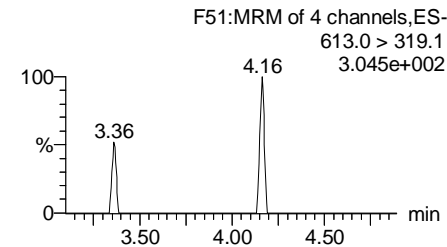
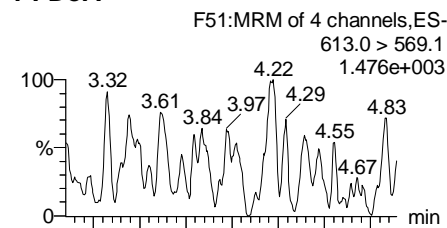
N-MeFOSAA



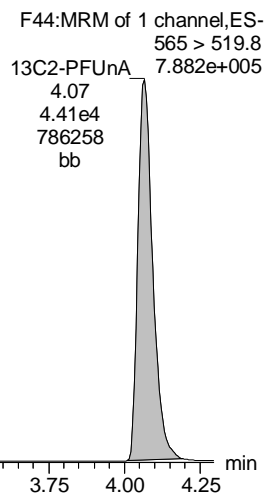
N-EtFOSAA



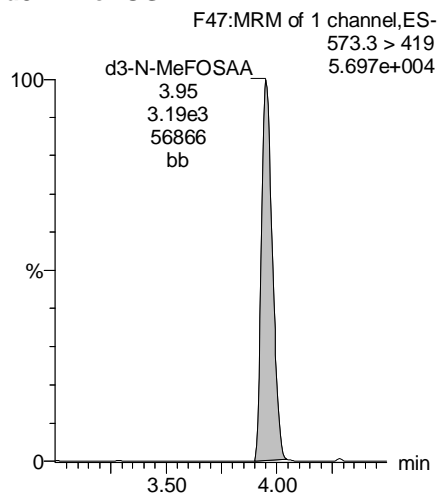
PFDaA



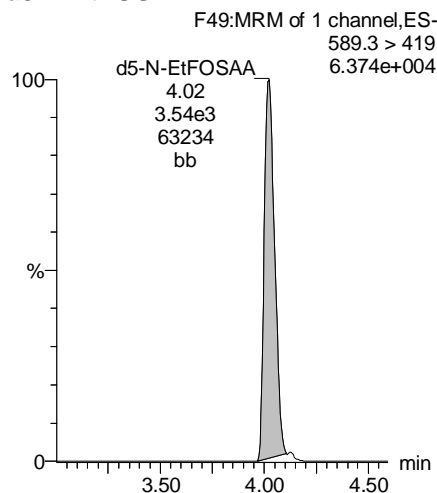
13C2-PFUnA



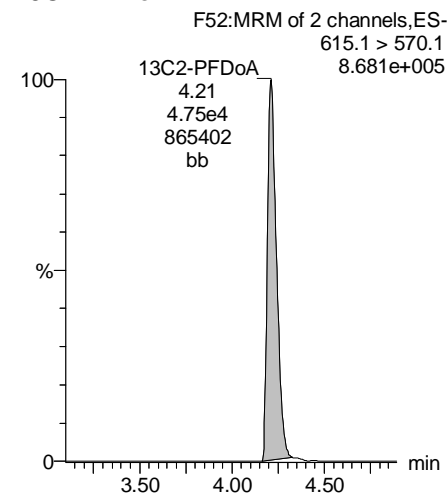
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



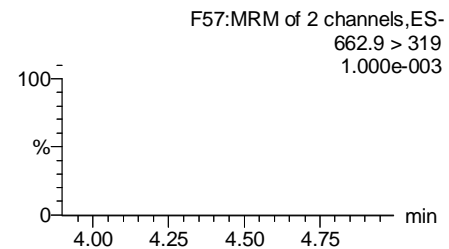
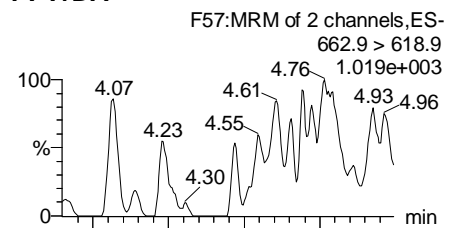
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Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

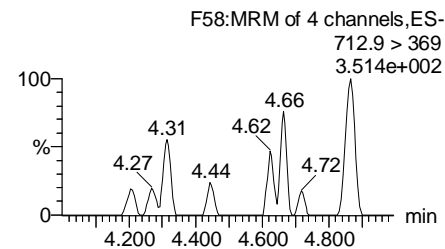
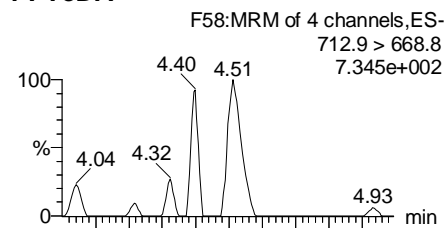
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Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

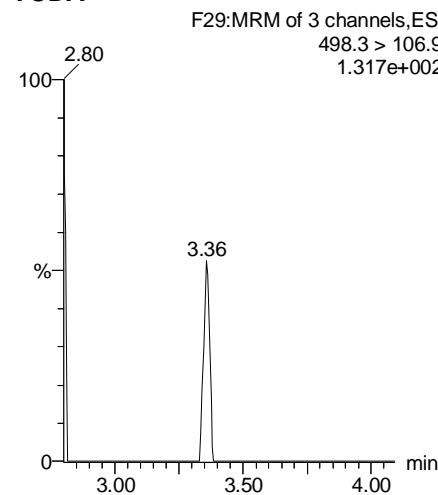
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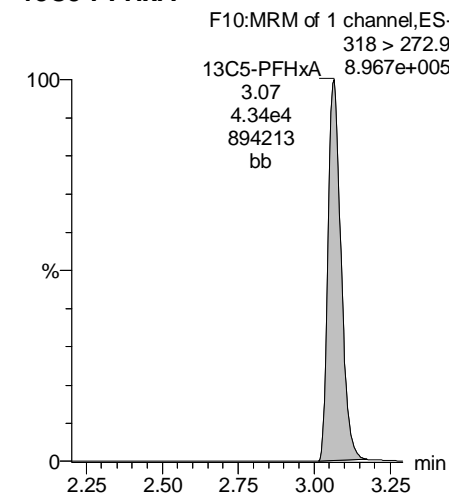
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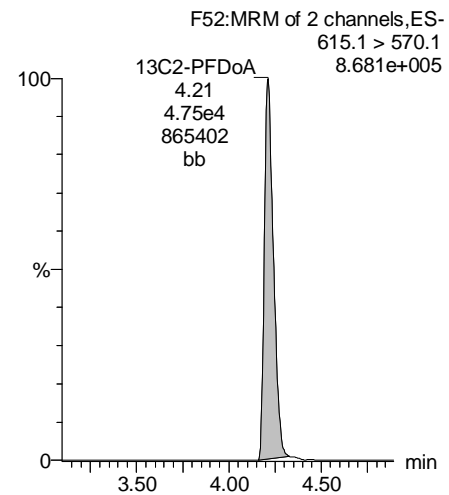
TCDA



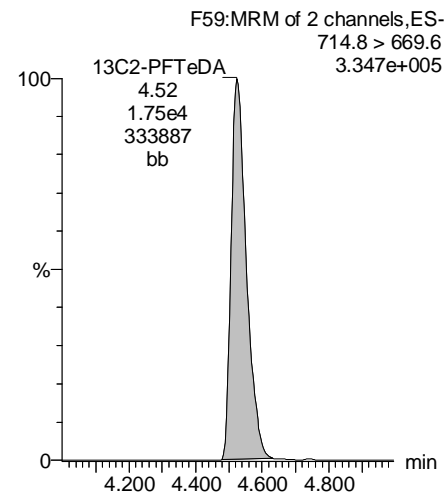
13C5-PFHxA



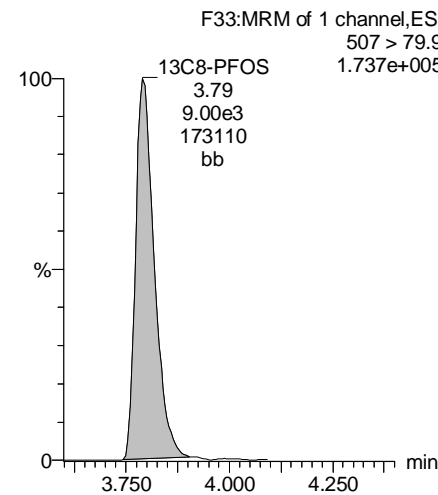
13C2-PFDoA



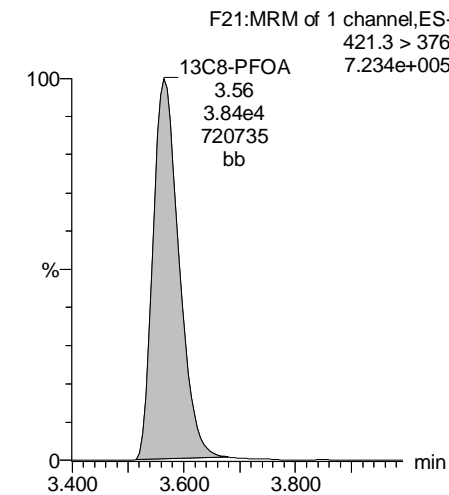
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



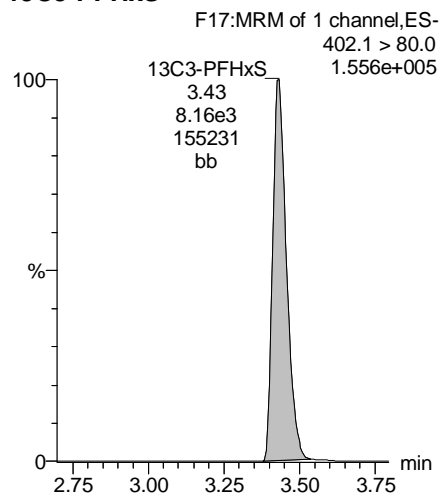
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Last Altered: Monday, October 02, 2017 13:14:47 Pacific Daylight Time

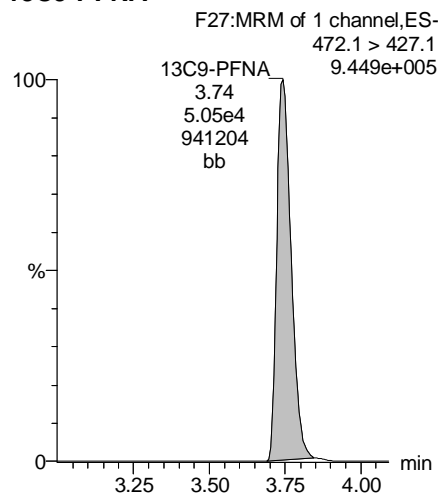
Printed: Monday, October 02, 2017 13:15:29 Pacific Daylight Time

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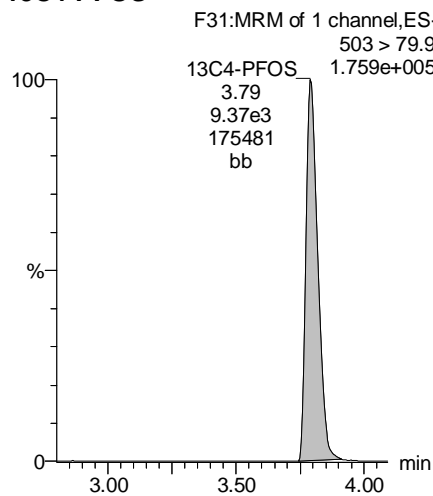
13C3-PFHxS



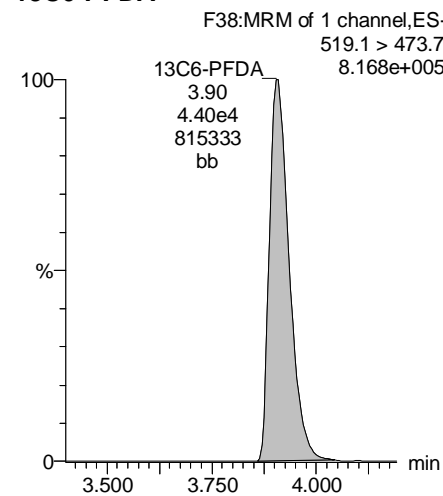
13C9-PFNA



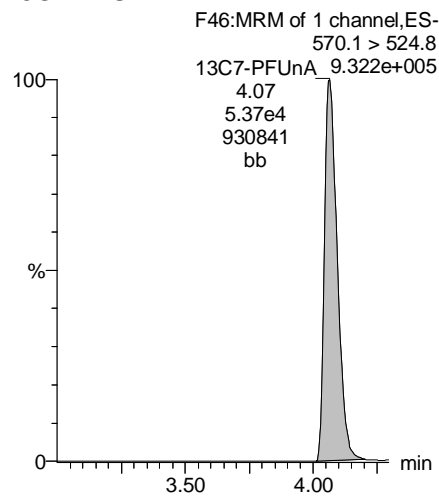
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-71.qld

Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:23:24 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.62e2	9.31e3	0.10813		2.76	2.79	0.217	1.63	
2	4 PFHxA	313.2 > 268.9	1.15e4	1.20e4	0.10813		3.04	3.07	4.82	27.0	
3	5 PFHpA	363.1 > 319.1	9.25e3	5.45e4	0.10813		3.33	3.35	2.12	19.0	
4	6 L-PFHxS	399.0 > 80.0	5.02e2	3.58e3	0.10813		3.41	3.43	1.75	6.49	
5	9 L-PFOA	413 > 368.7	9.67e3	3.99e4	0.10813		3.54	3.56	3.03	25.0	
6	12 PFNA	463.1 > 419.1	1.34e3	3.86e4	0.10813		3.72	3.74	0.435	3.05	
7	14 L-PFOS	499 > 79.9	5.87e2	9.41e3	0.10813		3.77	3.80	0.779	6.39	
8	16 PFDA	513 > 468.8	4.16e2	3.51e4	0.10813		3.89	3.90	0.148	0.119	
9	18 N-MeFOSAA	570.1 > 419		3.24e3	0.10813		3.92				
10	19 N-EtFOSAA	584.2 > 419		4.09e3	0.10813		3.99				
11	20 PFUnA	562.9 > 518.9		4.52e4	0.10813		4.04				
12	22 PFDaA	613.0 > 569.1		4.61e4	0.10813		4.19				

Dataset: U:\Q4.PRO\results\170928M3\170928M3-71.qld

Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:24:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	4.61e4	0.10813		4.34					
2	25	PFTeDA	712.9 > 668.8	1.64e4	0.10813		4.49					
3	31	13C3-PFBA	216.1 > 172.1	1.64e4	1.81e4	0.10813	0.860	1.27	1.27	11.3	122	105.3
4	32	13C3-PFPeA	266.1 > 222.1	3.46e4	4.05e4	0.10813	0.227	2.46	2.52	4.27	174	150.4
5	33	13C3-PFBS	302.1 > 79.9	9.31e3	4.05e4	0.10813	0.056	2.76	2.78	1.15	190	164.7
6	34	13C2-PFHxA	315 > 269.8	1.20e4	4.05e4	0.10813	0.279	3.04	3.07	1.48	49.0	105.9
7	35	13C4-PFHpA	367 > 322.1	5.45e4	4.05e4	0.10813	0.719	3.33	3.35	6.73	86.6	74.9
8	36	18O2-PFHxS	403 > 103.0	3.58e3	7.34e3	0.10813	0.477	3.41	3.43	6.09	118	102.2
9	37	13C2-6:2 FTS	429.1 > 408.9	4.43e3	3.62e4	0.10813	0.129	3.54	3.55	1.53	109	94.5
10	38	13C2-PFOA	414.9 > 369.7	3.99e4	3.62e4	0.10813	1.167	3.54	3.56	13.8	109	94.5
11	39	13C5-PFNA	468.1 > 423.1	3.86e4	4.91e4	0.10813	0.856	3.72	3.74	9.83	106	91.8
12	40	13C8-PFOA	506.1 > 78.0	1.70e4	5.01e4	0.10813	0.467	4.75	4.75	4.25	84.2	72.8
13	41	13C8-PFOS	507 > 79.9	9.41e3	8.93e3	0.10813	0.983	3.77	3.79	13.2	124	107.2
14	42	13C2-PFDA	515.1 > 469.9	3.51e4	4.36e4	0.10813	0.859	3.89	3.90	10.1	108	93.7
15	43	13C2-8:2 FTS	529.1 > 508.7	4.44e3	4.36e4	0.10813	0.091	3.88	3.90	1.27	129	111.5
16	44	d3-N-MeFOSAA	573.3 > 419	3.24e3	5.01e4	0.10813	0.007	3.92	3.95	0.808	1150	76.3
17	45	d5-N-EtFOSAA	589.3 > 419	4.09e3	5.01e4	0.10813	0.007	3.99	4.02	1.02	1330	88.2
18	46	13C2-PFUnA	565 > 519.8	4.52e4	5.01e4	0.10813	0.938	4.04	4.06	11.3	111	96.3
19	47	13C2-PFDoA	615.1 > 570.1	4.61e4	5.01e4	0.10813	0.966	4.19	4.21	11.5	110	95.2
20	49	13C2-PFTeDA	714.8 > 669.6	1.64e4	5.01e4	0.10813	0.362	4.49	4.52	4.09	104	90.3
21	54	13C4-PFBA	217.1 > 172.1	1.81e4	1.81e4	0.10813	1.000	1.27	1.27	12.5	116	100.0
22	55	13C5-PFHxA	318 > 272.9	4.05e4	4.05e4	0.10813	1.000	3.04	3.07	5.00	46.2	100.0
23	56	13C3-PFHxS	402.1 > 80.0	7.34e3	7.34e3	0.10813	1.000	3.41	3.43	12.5	116	100.0
24	57	13C8-PFOA	421.3 > 376	3.62e4	3.62e4	0.10813	1.000	3.54	3.56	12.5	116	100.0
25	58	13C9-PFNA	472.1 > 427.1	4.91e4	4.91e4	0.10813	1.000	3.72	3.74	12.5	116	100.0
26	59	13C4-PFOS	503 > 79.9	8.93e3	8.93e3	0.10813	1.000	3.77	3.79	12.5	116	100.0
27	60	13C6-PFDA	519.1 > 473.7	4.36e4	4.36e4	0.10813	1.000	3.89	3.90	12.5	116	100.0
28	61	13C7-PFUnA	570.1 > 524.8	5.01e4	5.01e4	0.10813	1.000	4.04	4.06	12.5	116	100.0
29	62	Total PFHxS	399.0 > 80.0	5.02e2	3.58e3	0.10813		3.41		1.75	6.49	
30	63	Total PFOA	413 > 368.7	9.67e3	3.99e4	0.10813		3.54		3.03	25.0	
31	64	Total PFOS	499 > 79.9	5.87e2	9.41e3	0.10813		3.77		0.779	6.39	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.24e3	0.10813		3.92		0.000		

Vista Analytical Laboratory

Rev'd: MM 10/8/17

Dataset: U:\Q4.PRO\results\170928M3\170928M3-71.qld

Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:24:59 Pacific Daylight Time

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	4.09e3	0.10813		3.99		0.000		

Dataset: U:\Q4.PRO\results\170928M3\170928M3-71.qld

Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:23:24 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.43	501.998	3577.508	1.754	MM	6.5

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	10 Br-PFOA	413 > 368.7			39904.359		MM-I	
2	9 L-PFOA	413 > 368.7	3.56	9674.552	39904.359	3.031	bd	25.0

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	3.80	586.553	9407.860	0.779	MM	6.4
2	15 Br-PFOS	499 > 79.9			9407.860		MM-	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170928M3\170928M3-71.qld

Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

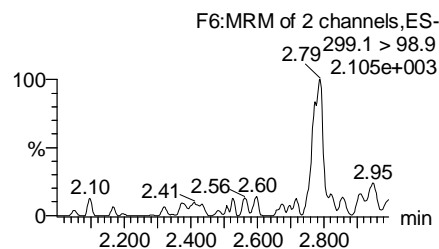
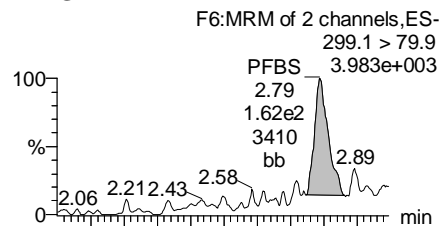
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

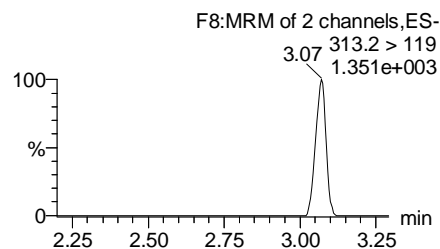
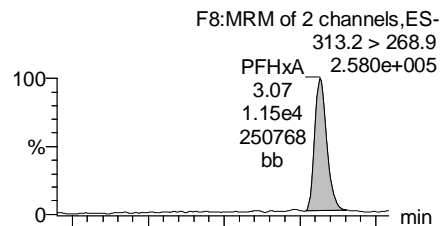
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Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

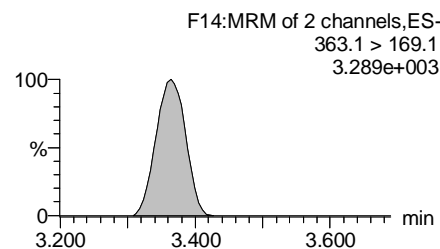
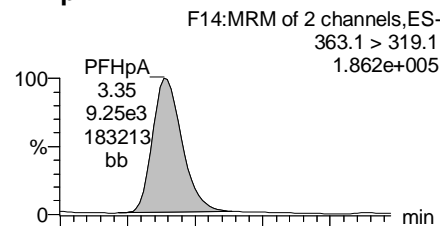
PFBS



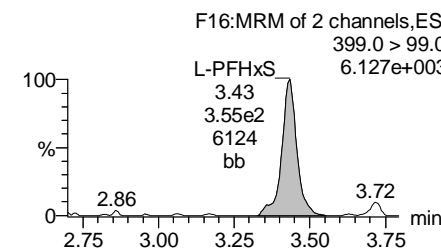
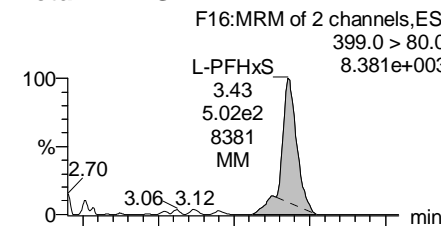
PFHxA



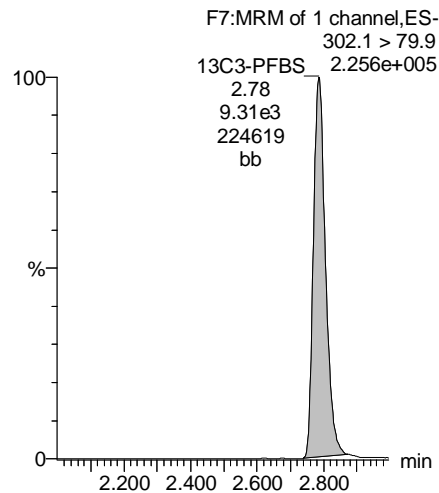
PFHpA



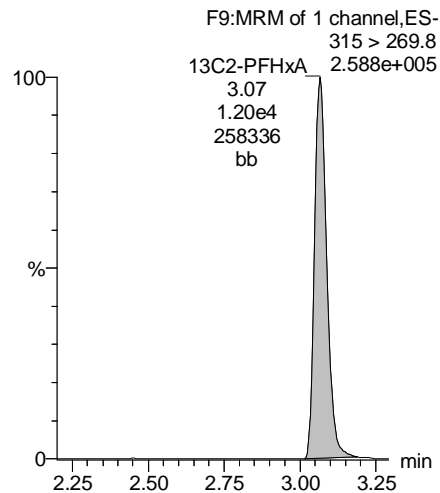
Total PFHxS



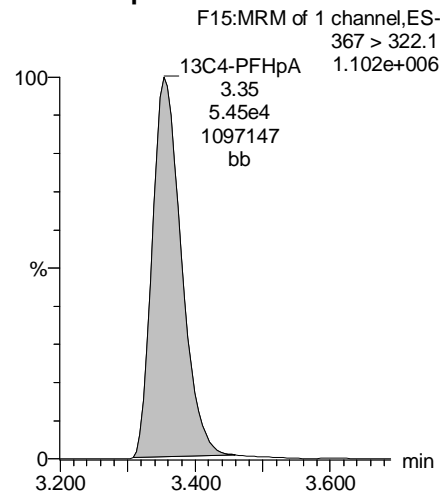
13C3-PFBS



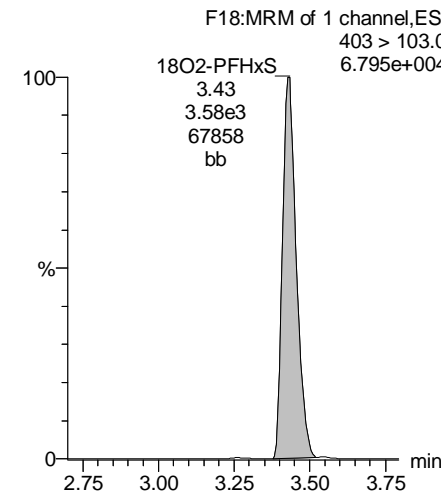
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-71.qld

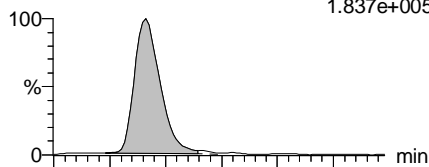
Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:23:24 Pacific Daylight Time

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

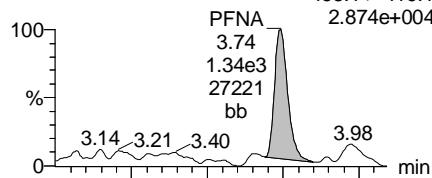
Total PFOA

F19:MRM of 2 channels,ES-
413 > 368.7
1.837e+005



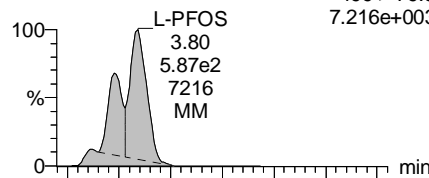
PFNA

F25:MRM of 2 channels,ES-
463.1 > 419.1
2.874e+004



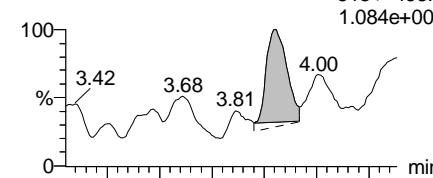
Total PFOS

F30:MRM of 2 channels,ES-
499 > 79.9
7.216e+003

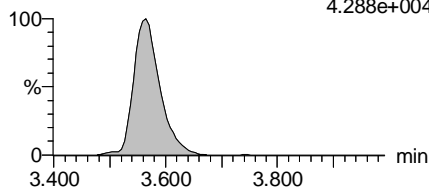


PFDA

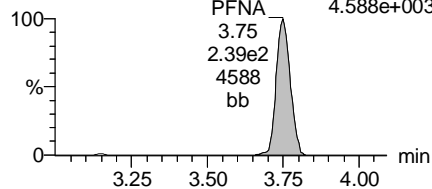
F35:MRM of 2 channels,ES-
513 > 468.8
1.084e+004



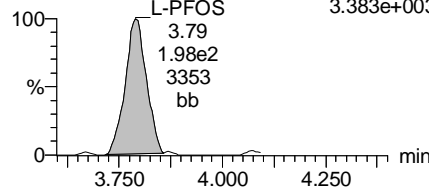
F19:MRM of 2 channels,ES-
413 > 169
4.288e+004



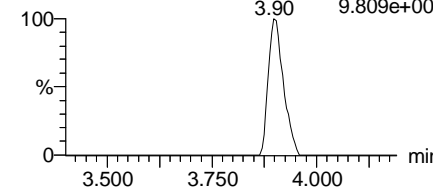
F25:MRM of 2 channels,ES-
463.1 > 219.1
4.588e+003



F30:MRM of 2 channels,ES-
499 > 99
3.383e+003

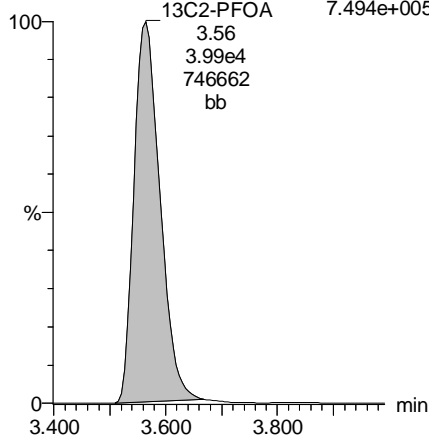


F35:MRM of 2 channels,ES-
513 > 219
9.809e+002



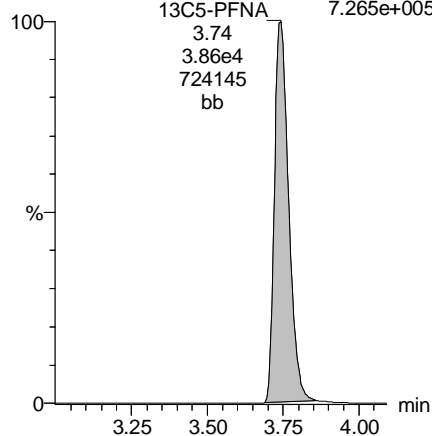
13C2-PFOA

F20:MRM of 1 channel,ES-
414.9 > 369.7
7.494e+005



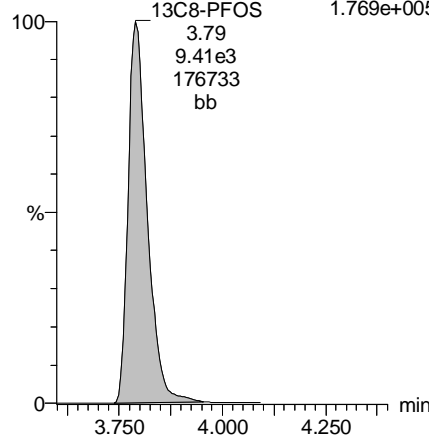
13C5-PFNA

F26:MRM of 1 channel,ES-
468.1 > 423.1
7.265e+005



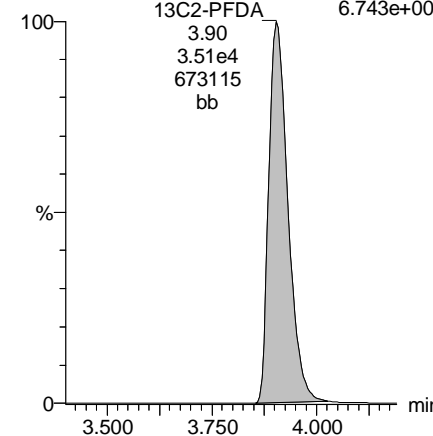
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.769e+005



13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
6.743e+005



Dataset: U:\Q4.PRO\results\170928M3\170928M3-71.qld

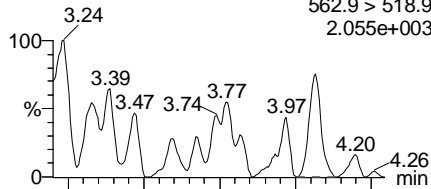
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Printed: Monday, October 02, 2017 13:23:24 Pacific Daylight Time

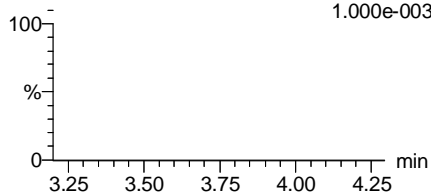
Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
2.055e+003

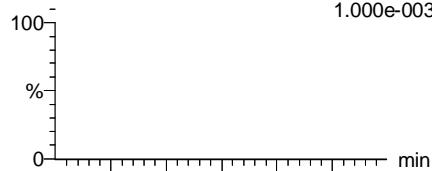


F43:MRM of 2 channels,ES-
562.9 > 269
1.000e-003

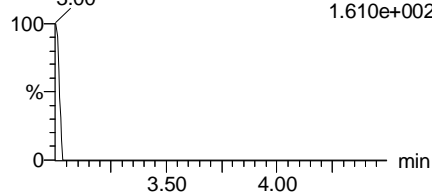


N-MeFOSAA

F45:MRM of 3 channels,ES-
570.1 > 419
1.000e-003

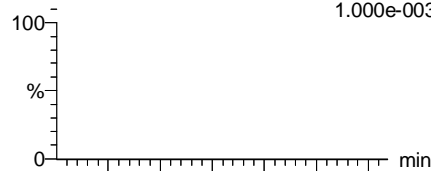


F45:MRM of 3 channels,ES-
570.1 > 483.1
1.610e+002

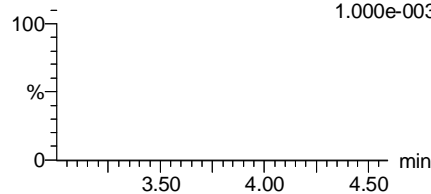


N-EtFOSAA

F48:MRM of 3 channels,ES-
584.2 > 419
1.000e-003

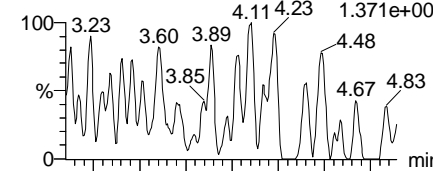


F48:MRM of 3 channels,ES-
584.1 > 526.1
1.000e-003

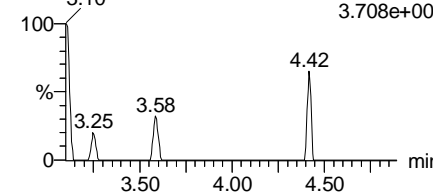


PFDaA

F51:MRM of 4 channels,ES-
613.0 > 569.1
1.371e+003

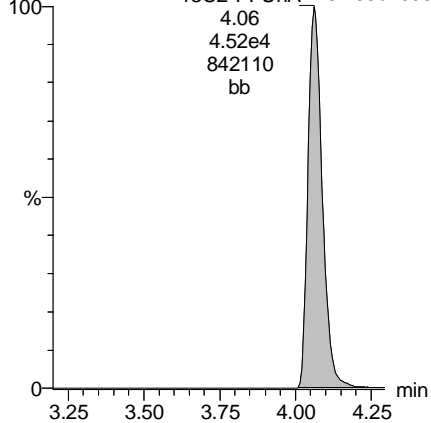


F51:MRM of 4 channels,ES-
613.0 > 319.1
3.708e+002



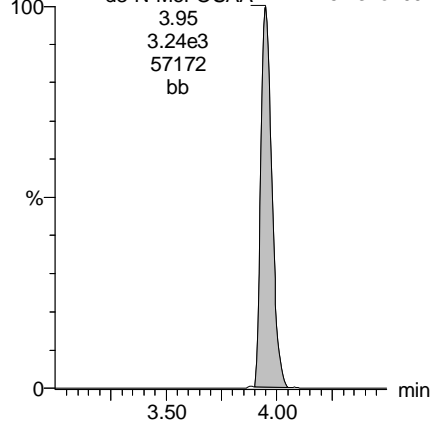
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
8.435e+005



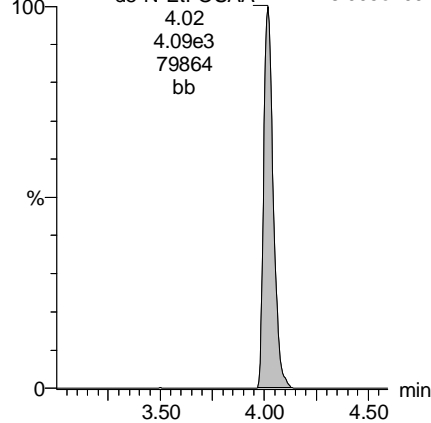
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
5.734e+004



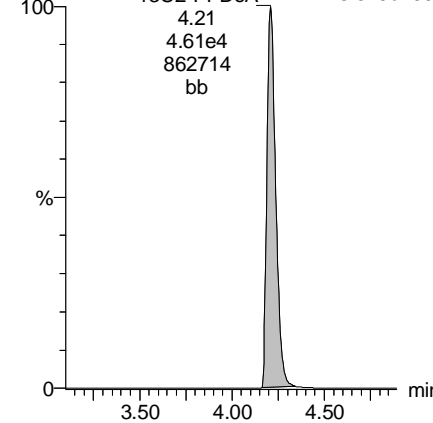
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
8.005e+004



13C2-PFDaA

F52:MRM of 2 channels,ES-
615.1 > 570.1
8.649e+005



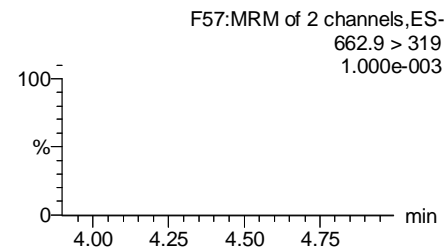
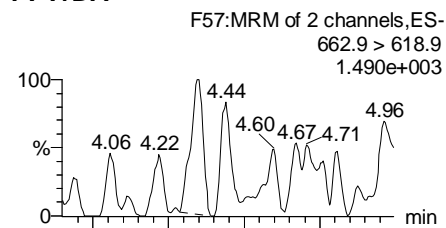
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Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

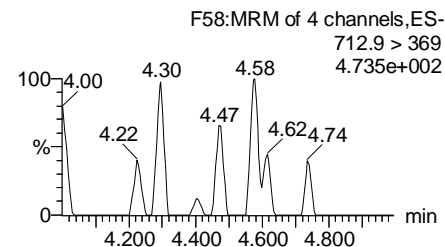
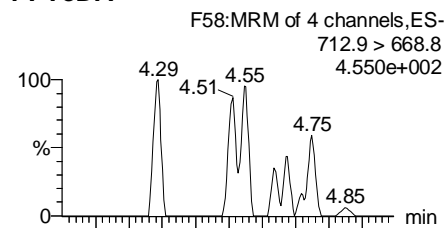
Printed: Monday, October 02, 2017 13:23:24 Pacific Daylight Time

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

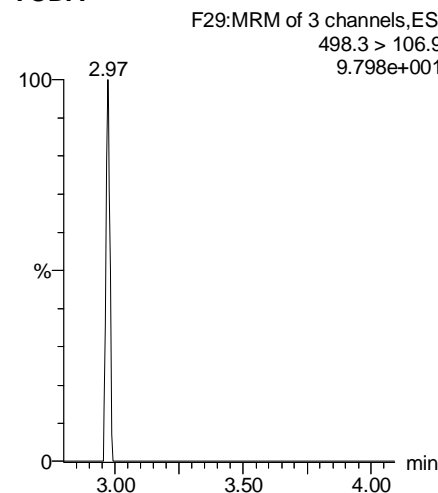
PFTrDA



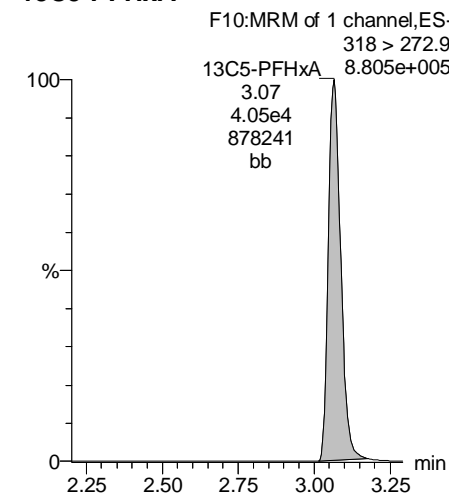
PFTeDA



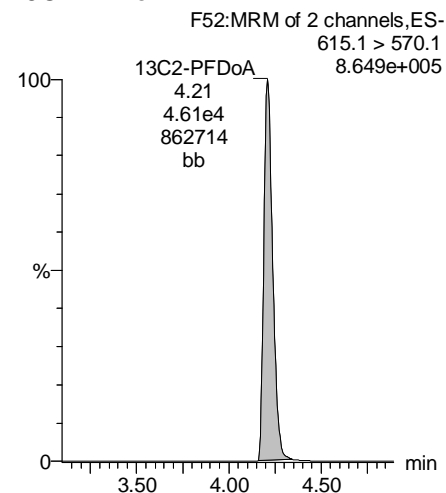
TCDA



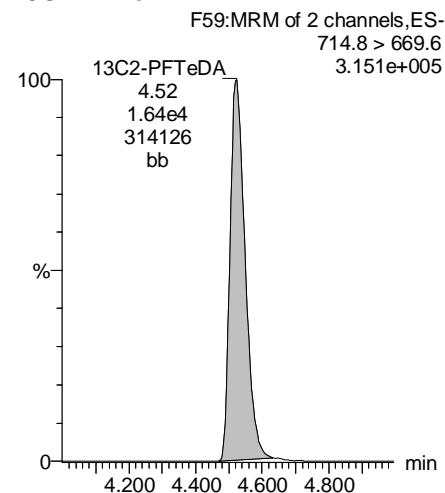
13C5-PFHxA



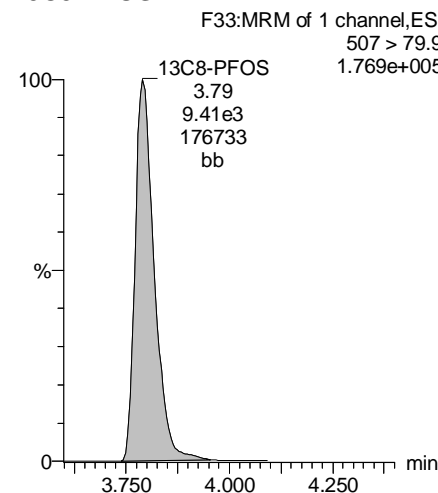
13C2-PFDoA



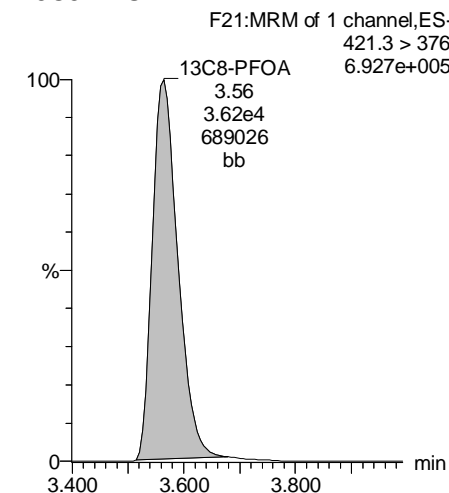
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



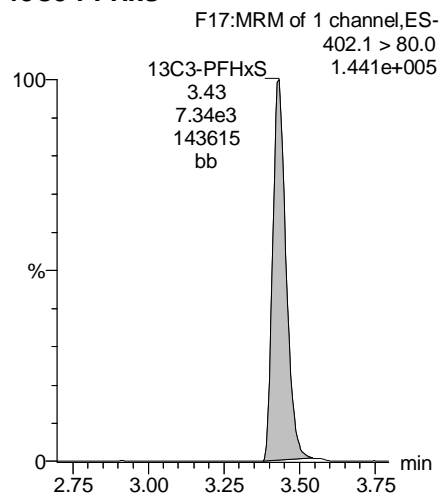
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Last Altered: Monday, October 02, 2017 13:22:45 Pacific Daylight Time

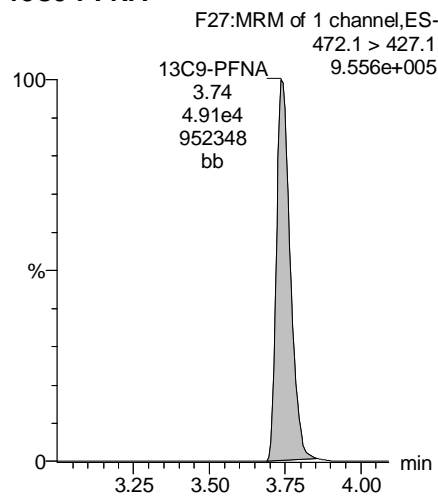
Printed: Monday, October 02, 2017 13:23:24 Pacific Daylight Time

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

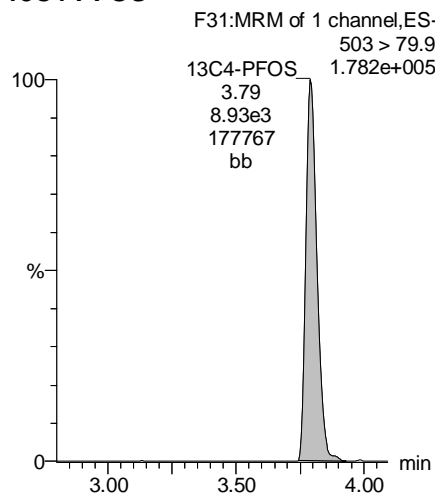
13C3-PFHxS



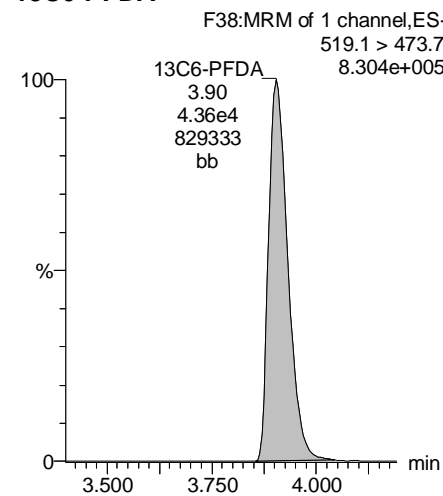
13C9-PFNA



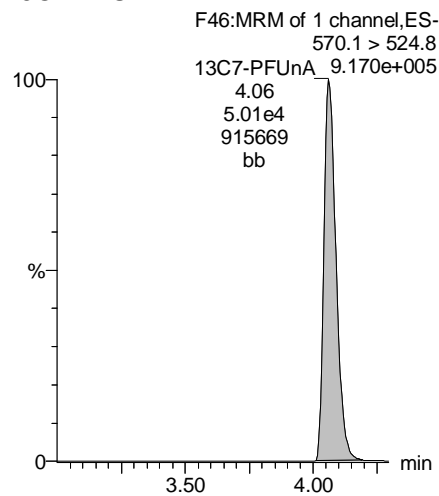
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:44:56 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.92e2	7.85e3	0.11555		3.17	3.13	0.305	2.79	
2	4 PFHxA	313.2 > 268.9	1.03e4	1.16e4	0.11555		3.37	3.36	4.42	24.0	
3	5 PFHpA	363.1 > 319.1	6.75e3	4.36e4	0.11555		3.63	3.61	1.94	16.1	
4	6 L-PFHxS	399.0 > 80.0	3.67e2	3.01e3	0.11555		3.71	3.69	1.53	5.46	
5	9 L-PFOA	413 > 368.7	7.76e3	3.13e4	0.11555		3.84	3.82	3.10	23.0	
6	12 PFNA	463.1 > 419.1	9.10e2	2.99e4	0.11555		4.03	4.00	0.380	1.84	
7	14 L-PFOS	499 > 79.9	4.27e2	7.64e3	0.11555		4.08	4.07	0.699	5.06	
8	16 PFDA	513 > 468.8	2.28e2	2.59e4	0.11555		4.21	4.20	0.110		
9	18 N-MeFOSAA	570.1 > 419		6.32e3	0.11555		4.24				
10	19 N-EtFOSAA	584.2 > 419		6.94e3	0.11555		4.32				
11	20 PFUnA	562.9 > 518.9		2.43e4	0.11555		4.39				
12	22 PFDoA	613.0 > 569.1		2.89e4	0.11555		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:45:13 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	2.89e4	0.11555		4.78					
2	25	PFTeDA	712.9 > 668.8	2.40e4	0.11555		4.99					
3	31	13C3-PFBA	216.1 > 172.1	1.46e4	1.86e4	0.11555	0.890	1.88	1.83	9.85	95.8	88.6
4	32	13C3-PFPeA	266.1 > 222.1	3.10e4	4.14e4	0.11555	0.236	2.98	2.96	3.74	137	126.8
5	33	13C3-PFBS	302.1 > 79.9	7.85e3	4.14e4	0.11555	0.056	3.17	3.14	0.949	147	135.9
6	34	13C2-PFHxA	315 > 269.8	1.16e4	4.14e4	0.11555	0.283	3.37	3.36	1.40	42.9	99.0
7	35	13C4-PFHpA	367 > 322.1	4.36e4	4.14e4	0.11555	0.499	3.63	3.62	5.27	91.2	84.4
8	36	18O2-PFHxS	403 > 103.0	3.01e3	6.82e3	0.11555	0.482	3.71	3.68	5.52	99.0	91.6
9	37	13C2-6:2 FTS	429.1 > 408.9	5.04e3	3.05e4	0.11555	0.183	3.84	3.81	2.06	97.5	90.1
10	38	13C2-PFOA	414.9 > 369.7	3.13e4	3.05e4	0.11555	1.158	3.84	3.82	12.8	95.8	88.5
11	39	13C5-PFNA	468.1 > 423.1	2.99e4	3.98e4	0.11555	0.888	4.03	4.01	9.40	91.5	84.6
12	40	13C8-PFOSA	506.1 > 78.0	3.29e3	3.26e4	0.11555	0.143	4.04	4.02	1.26	76.6	70.8
13	41	13C8-PFOS	507 > 79.9	7.64e3	7.24e3	0.11555	1.013	4.08	4.07	13.2	113	104.2
14	42	13C2-PFDA	515.1 > 469.9	2.59e4	3.38e4	0.11555	0.876	4.21	4.20	9.57	94.5	87.4
15	43	13C2-8:2 FTS	529.1 > 508.7	3.85e3	3.38e4	0.11555	0.148	4.21	4.19	1.42	83.4	77.1
16	44	d3-N-MeFOSAA	573.3 > 419	6.32e3	3.26e4	0.11555	0.017	4.24	4.21	2.42	1230	87.5
17	45	d5-N-EtFOSAA	589.3 > 419	6.94e3	3.26e4	0.11555	0.019	4.32	4.29	2.66	1240	88.2
18	46	13C2-PFUnA	565 > 519.8	2.43e4	3.26e4	0.11555	0.959	4.39	4.37	9.32	84.1	77.7
19	47	13C2-PFDoA	615.1 > 570.1	2.89e4	3.26e4	0.11555	1.003	4.59	4.56	11.1	95.6	88.3
20	49	13C2-PFTeDA	714.8 > 669.6	2.40e4	3.26e4	0.11555	0.716	4.99	4.96	9.22	111	103.0
21	54	13C4-PFBA	217.1 > 172.1	1.86e4	1.86e4	0.11555	1.000	1.88	1.83	12.5	108	100.0
22	55	13C5-PFHxA	318 > 272.9	4.14e4	4.14e4	0.11555	1.000	3.37	3.36	5.00	43.3	100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.82e3	6.82e3	0.11555	1.000	3.71	3.68	12.5	108	100.0
24	57	13C8-PFOA	421.3 > 376	3.05e4	3.05e4	0.11555	1.000	3.84	3.82	12.5	108	100.0
25	58	13C9-PFNA	472.1 > 427.1	3.98e4	3.98e4	0.11555	1.000	4.03	4.01	12.5	108	100.0
26	59	13C4-PFOS	503 > 79.9	7.24e3	7.24e3	0.11555	1.000	4.08	4.07	12.5	108	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.38e4	3.38e4	0.11555	1.000	4.21	4.20	12.5	108	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.26e4	3.26e4	0.11555	1.000	4.39	4.37	12.5	108	100.0
29	62	Total PFHxS	399.0 > 80.0	3.67e2	3.01e3	0.11555		3.71		1.53	5.46	
30	63	Total PFOA	413 > 368.7	7.76e3	3.13e4	0.11555		3.84		3.10	23.0	
31	64	Total PFOS	499 > 79.9	4.27e2	7.64e3	0.11555		4.08		0.699	5.06	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.32e3	0.11555		4.24		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:45:13 Pacific Daylight Time

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	6.94e3	0.11555		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:44:56 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.69	367.362	3010.946	1.525	MM	5.5

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.82	7755.653	31308.172	3.096	bb	23.0
2	10 Br-PFOA	413 > 368.7			31308.172		MM-I	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.07	427.248	7636.366	0.699	MM	5.1
2	15 Br-PFOS	499 > 79.9			7636.366		MM-I	

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

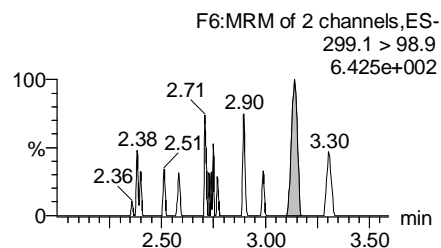
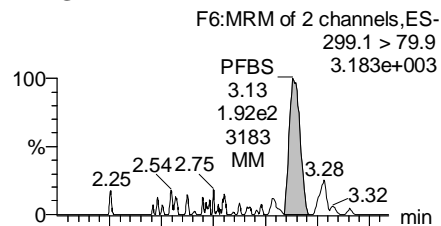
Printed: Thursday, September 28, 2017 09:44:56 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

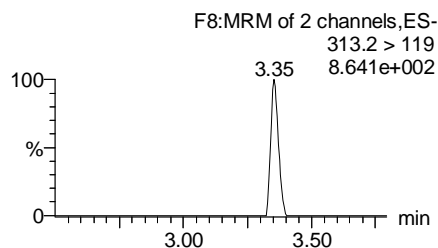
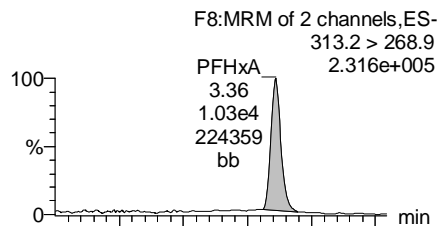
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

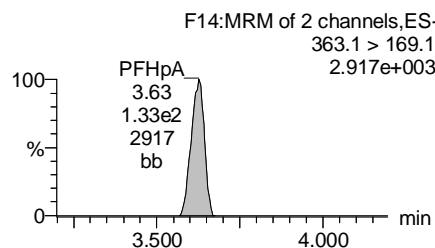
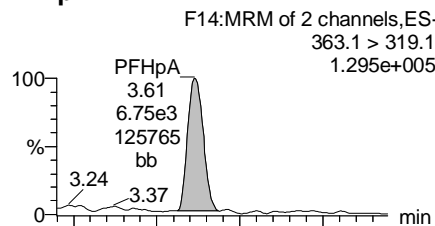
PFBS



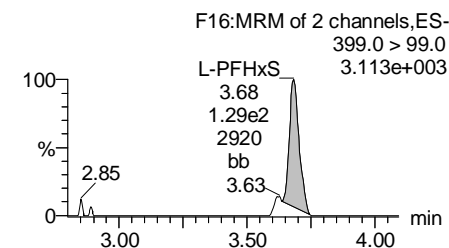
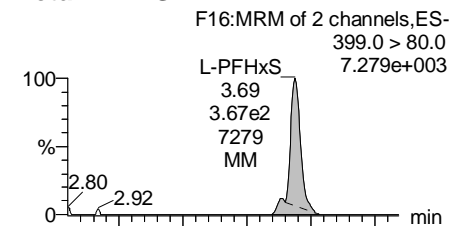
PFHxA



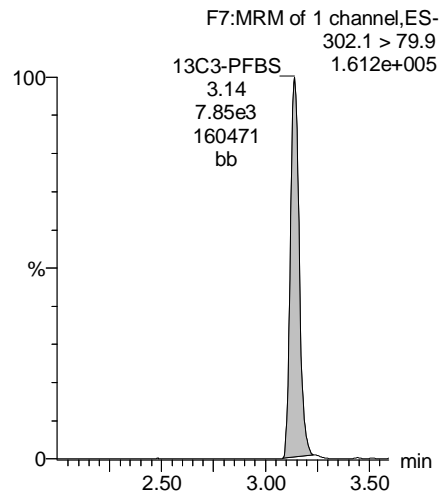
PFHpA



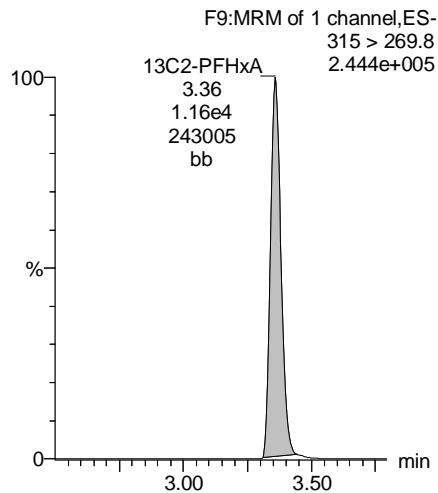
Total PFHxS



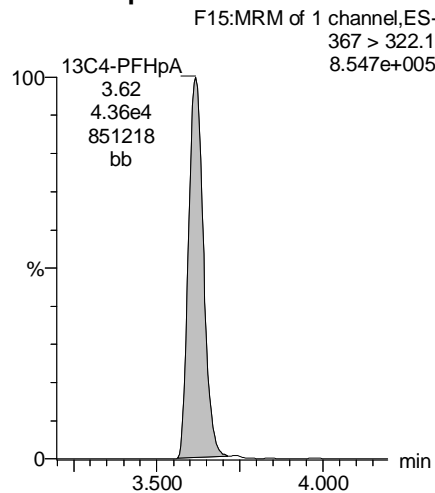
13C3-PFBS



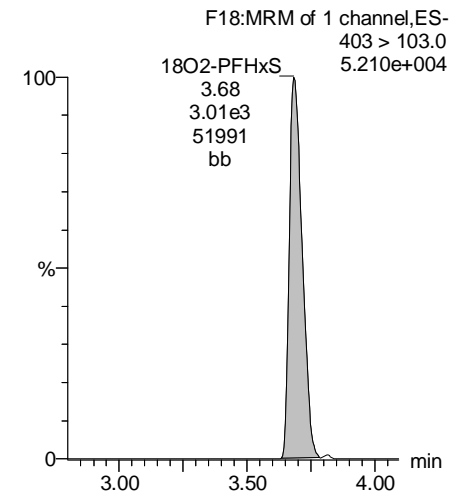
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



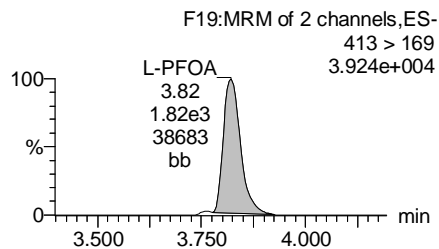
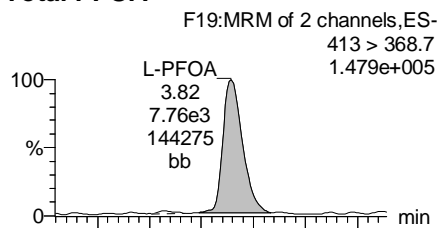
Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

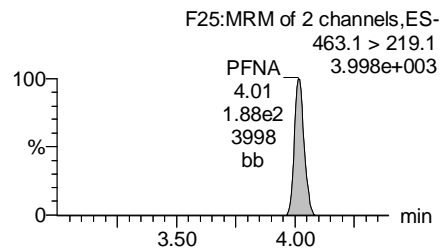
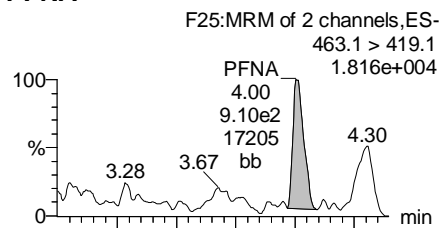
Printed: Thursday, September 28, 2017 09:44:56 Pacific Daylight Time

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

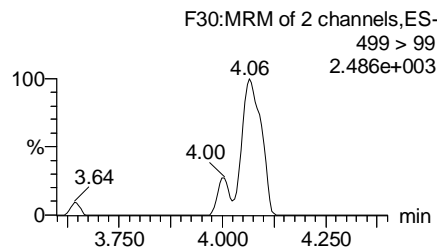
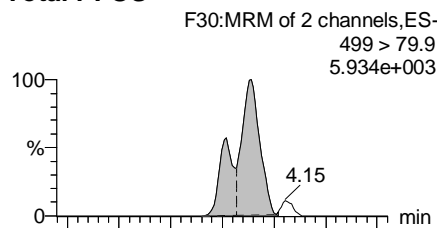
Total PFOA



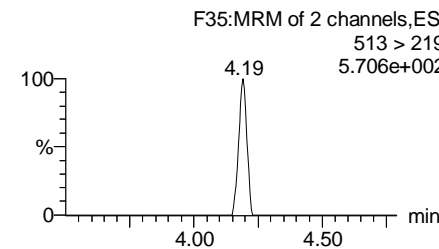
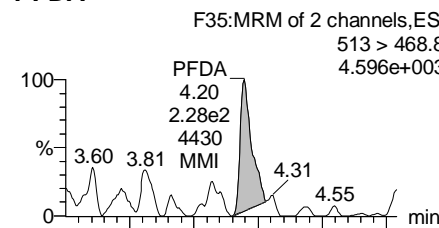
PFNA



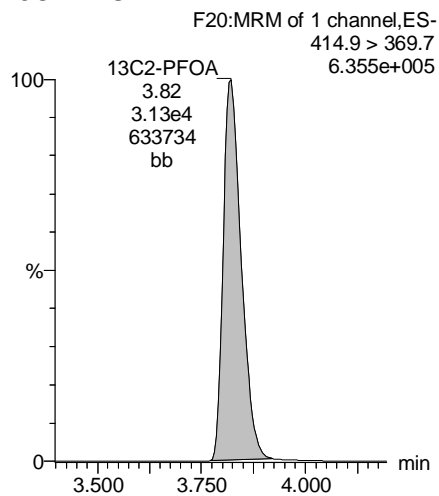
Total PFOS



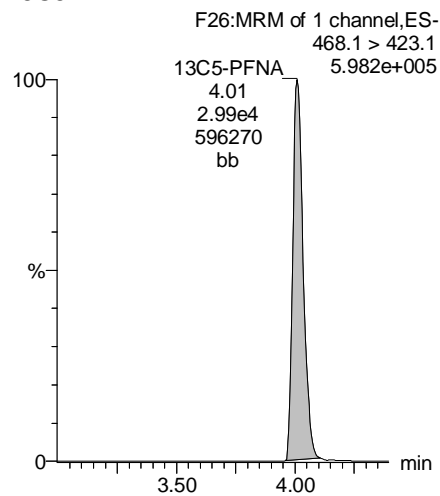
PFDA



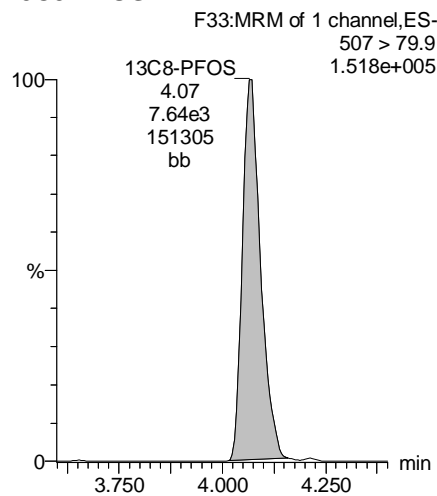
13C2-PFOA



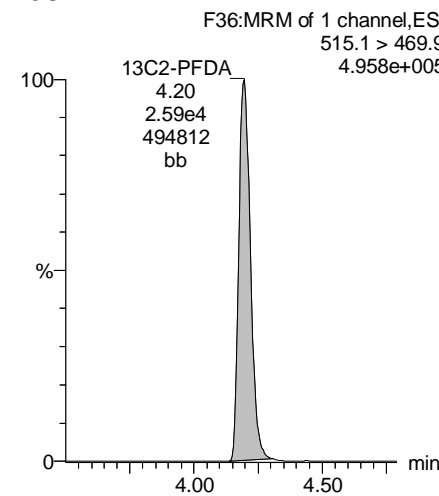
13C5-PFNA



13C8-PFOS



13C2-PFDA



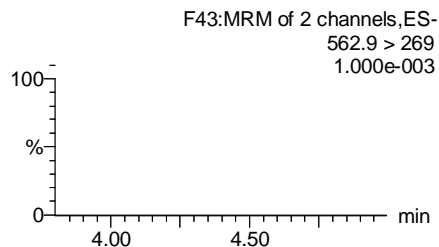
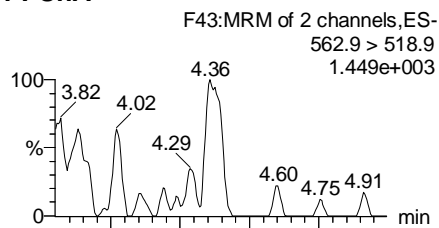
Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

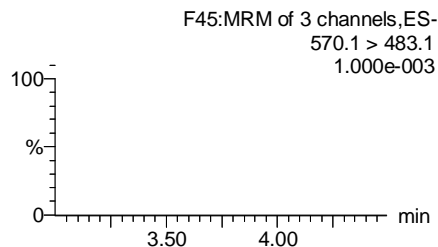
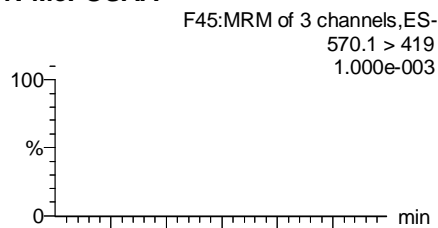
Printed: Thursday, September 28, 2017 09:44:56 Pacific Daylight Time

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

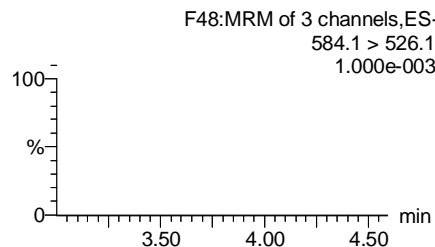
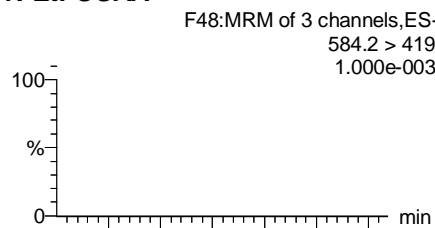
PFUnA



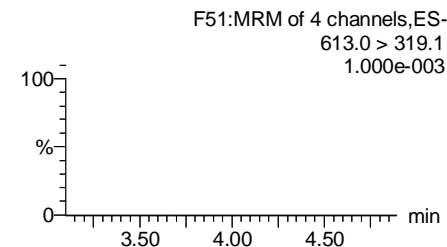
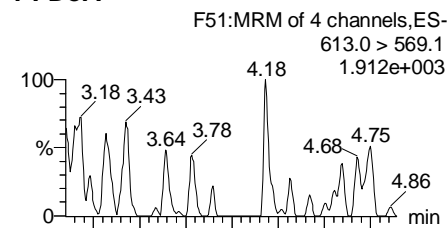
N-MeFOSAA



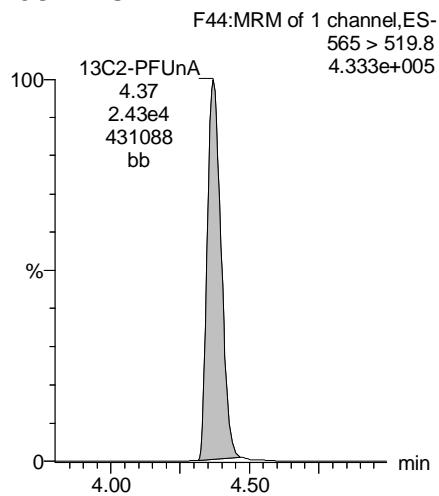
N-EtFOSAA



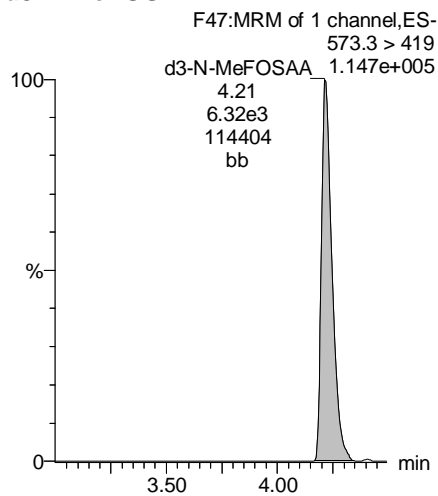
PFDaA



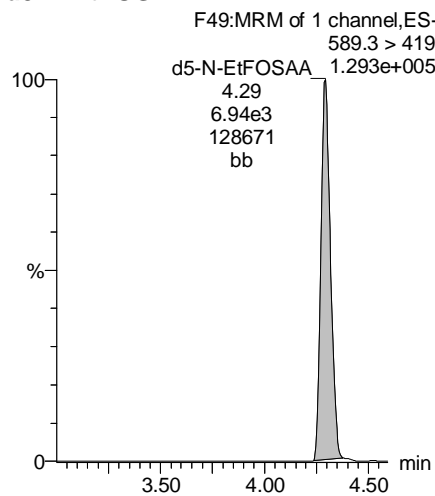
13C2-PFUnA



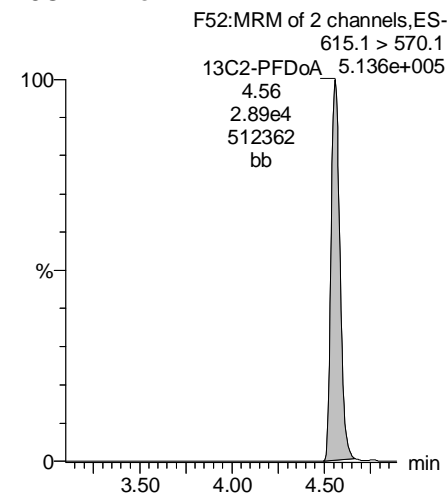
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

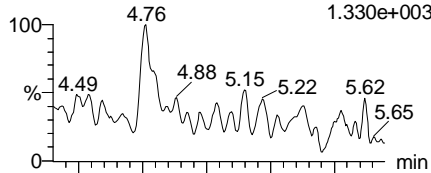
Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:44:56 Pacific Daylight Time

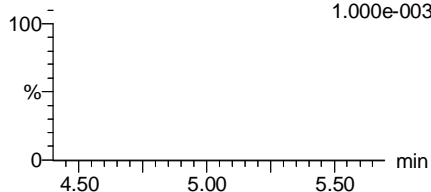
Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

PFTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
1.330e+003

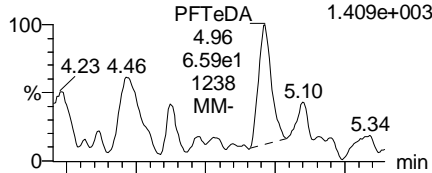


F57:MRM of 2 channels,ES-
662.9 > 319
1.000e-003

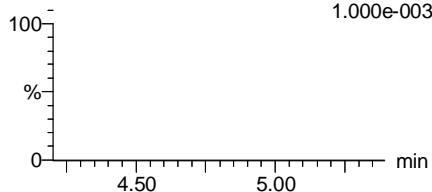


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
1.409e+003

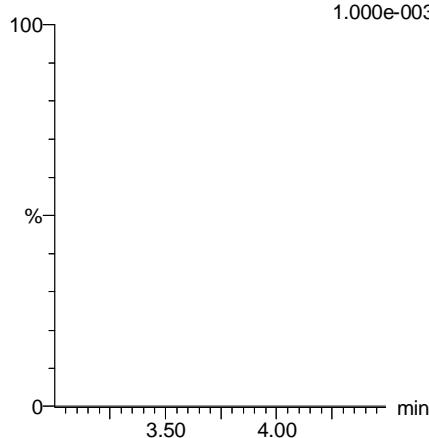


F58:MRM of 4 channels,ES-
712.9 > 369
1.000e-003



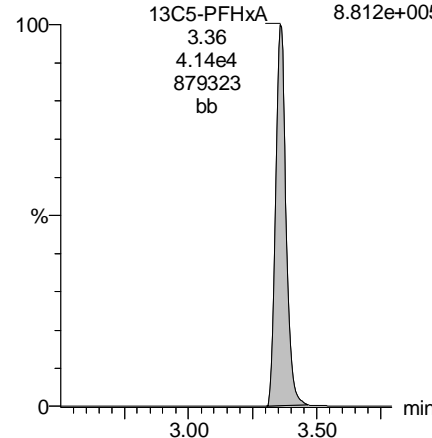
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
1.000e-003



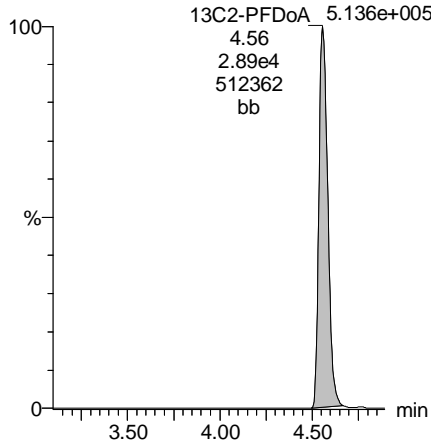
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.812e+005



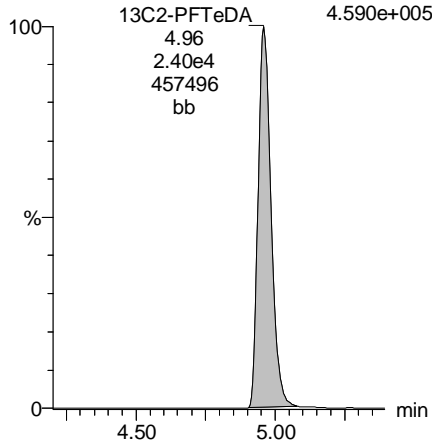
13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
5.136e+005



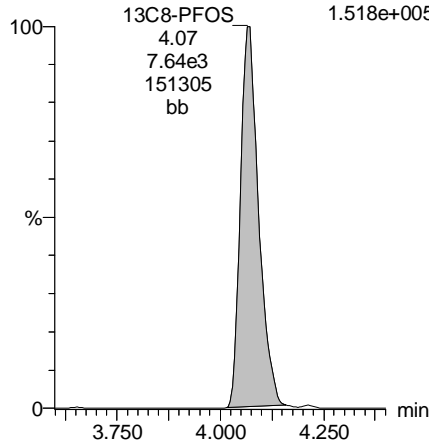
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
4.590e+005



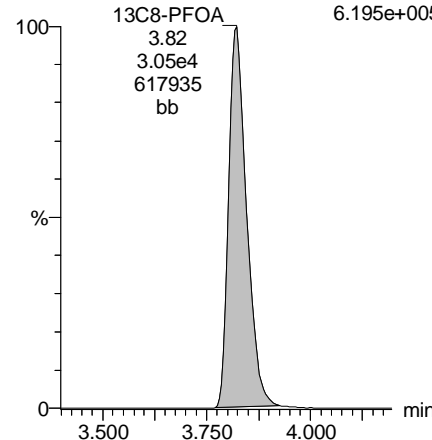
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.518e+005



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
6.195e+005



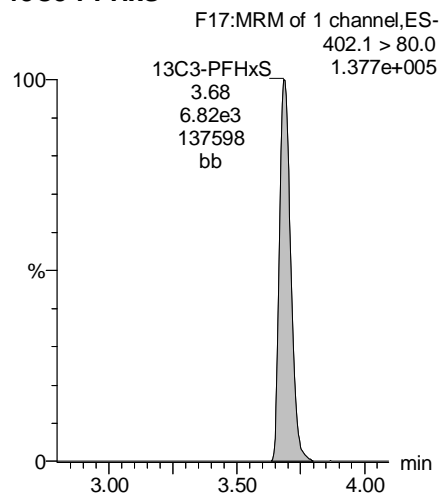
Dataset: U:\Q4.PRO\results\170926M1\170926M1-47.qld

Last Altered: Thursday, September 28, 2017 09:43:52 Pacific Daylight Time

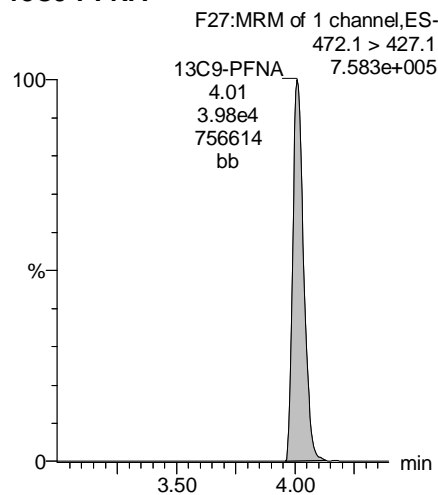
Printed: Thursday, September 28, 2017 09:44:56 Pacific Daylight Time

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

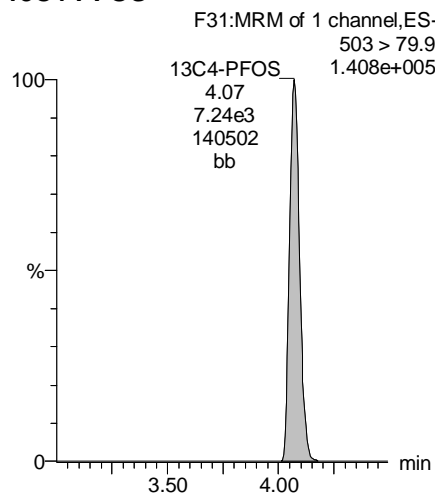
13C3-PFHxS



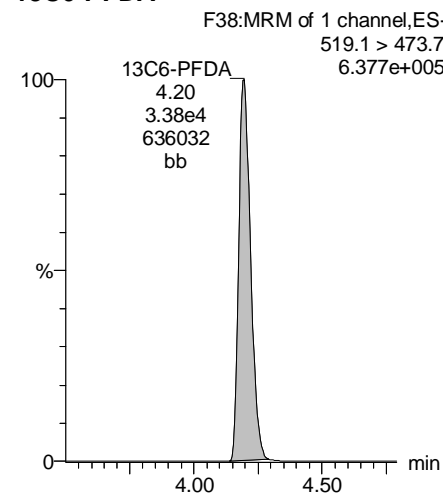
13C9-PFNA



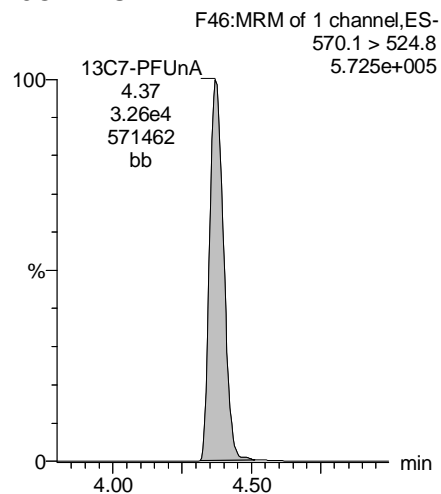
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-48.qld

Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:51:07 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9	1.71e2	8.20e3	0.10877		3.17	3.15	0.260	2.56	
2	4 PFHxA	313.2 > 268.9	3.69e4	1.13e4	0.10877		3.37	3.37	16.3	96.4	
3	5 PFHpA	363.1 > 319.1	2.47e4	4.56e4	0.10877		3.63	3.62	6.77	60.7	
4	6 L-PFHxS	399.0 > 80.0	2.92e2	3.17e3	0.10877		3.71	3.70	1.15	4.34	
5	9 L-PFOA	413 > 368.7	1.19e4	3.10e4	0.10877		3.84	3.83	4.82	39.4	
6	12 PFNA	463.1 > 419.1	2.16e3	2.92e4	0.10877		4.03	4.02	0.927	6.54	
7	14 L-PFOS	499 > 79.9	2.07e2	7.87e3	0.10877		4.08	4.03	0.329	2.16	
8	16 PFDA	513 > 468.8	1.91e2	2.38e4	0.10877		4.21	4.20	0.100		
9	18 N-MeFOSAA	570.1 > 419		6.62e3	0.10877		4.24				
10	19 N-EtFOSAA	584.2 > 419		7.22e3	0.10877		4.32				
11	20 PFUnA	562.9 > 518.9		3.46e4	0.10877		4.39				
12	22 PFDaA	613.0 > 569.1		3.15e4	0.10877		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-48.qld

Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:51:22 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTeDA	662.9 > 618.9	3.15e4	0.10877		4.78					
2	25	PFTeDA	712.9 > 668.8	2.55e4	0.10877		4.99					
3	31	13C3-PFBA	216.1 > 172.1	1.87e4	2.01e4	0.10877	0.890	1.88	1.84	11.6	104.6	
4	32	13C3-PFPeA	266.1 > 222.1	3.44e4	4.23e4	0.10877	0.236	2.98	2.97	4.08	159	138.1
5	33	13C3-PFBS	302.1 > 79.9	8.20e3	4.23e4	0.10877	0.056	3.17	3.15	0.970	160	138.8
6	34	13C2-PFHxA	315 > 269.8	1.13e4	4.23e4	0.10877	0.283	3.37	3.37	1.34	43.4	94.5
7	35	13C4-PFHpA	367 > 322.1	4.56e4	4.23e4	0.10877	0.499	3.63	3.62	5.40	99.4	86.5
8	36	18O2-PFHxS	403 > 103.0	3.17e3	6.34e3	0.10877	0.482	3.71	3.69	6.24	119	103.4
9	37	13C2-6:2 FTS	429.1 > 408.9	5.13e3	3.30e4	0.10877	0.183	3.84	3.82	1.94	97.6	84.9
10	38	13C2-PFOA	414.9 > 369.7	3.10e4	3.30e4	0.10877	1.158	3.84	3.83	11.7	93.2	81.1
11	39	13C5-PFNA	468.1 > 423.1	2.92e4	4.30e4	0.10877	0.888	4.03	4.02	8.47	87.7	76.3
12	40	13C8-PFOA	506.1 > 78.0	3.67e3	3.21e4	0.10877	0.143	4.04	4.03	1.43	91.9	80.0
13	41	13C8-PFOS	507 > 79.9	7.87e3	6.95e3	0.10877	1.013	4.08	4.08	14.2	128	111.8
14	42	13C2-PFDA	515.1 > 469.9	2.38e4	3.37e4	0.10877	0.876	4.21	4.20	8.83	92.7	80.7
15	43	13C2-8:2 FTS	529.1 > 508.7	3.96e3	3.37e4	0.10877	0.148	4.21	4.20	1.47	91.3	79.5
16	44	d3-N-MeFOSAA	573.3 > 419	6.62e3	3.21e4	0.10877	0.017	4.24	4.23	2.58	1390	93.0
17	45	d5-N-EtFOSAA	589.3 > 419	7.22e3	3.21e4	0.10877	0.019	4.32	4.30	2.81	1390	93.0
18	46	13C2-PFUnA	565 > 519.8	3.46e4	3.21e4	0.10877	0.959	4.39	4.38	13.5	129	112.4
19	47	13C2-PFDoA	615.1 > 570.1	3.15e4	3.21e4	0.10877	1.003	4.59	4.57	12.3	112	97.9
20	49	13C2-PFTeDA	714.8 > 669.6	2.55e4	3.21e4	0.10877	0.716	4.99	4.97	9.91	127	110.7
21	54	13C4-PFBA	217.1 > 172.1	2.01e4	2.01e4	0.10877	1.000	1.88	1.84	12.5	115	100.0
22	55	13C5-PFHxA	318 > 272.9	4.23e4	4.23e4	0.10877	1.000	3.37	3.37	5.00	46.0	100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.34e3	6.34e3	0.10877	1.000	3.71	3.69	12.5	115	100.0
24	57	13C8-PFOA	421.3 > 376	3.30e4	3.30e4	0.10877	1.000	3.84	3.83	12.5	115	100.0
25	58	13C9-PFNA	472.1 > 427.1	4.30e4	4.30e4	0.10877	1.000	4.03	4.02	12.5	115	100.0
26	59	13C4-PFOS	503 > 79.9	6.95e3	6.95e3	0.10877	1.000	4.08	4.08	12.5	115	100.0
27	60	13C6-PFDA	519.1 > 473.7	3.37e4	3.37e4	0.10877	1.000	4.21	4.20	12.5	115	100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.21e4	3.21e4	0.10877	1.000	4.39	4.38	12.5	115	100.0
29	62	Total PFHxS	399.0 > 80.0	2.92e2	3.17e3	0.10877		3.71		1.15	4.34	
30	63	Total PFOA	413 > 368.7	1.19e4	3.10e4	0.10877		3.84		4.82	39.4	
31	64	Total PFOS	499 > 79.9	2.07e2	7.87e3	0.10877		4.08		0.329	2.16	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	6.62e3	0.10877		4.24		0.000		

AC 9.28/17

Dataset: U:\Q4.PRO\results\170926M1\170926M1-48.qld

Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:51:22 Pacific Daylight Time

Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	7.22e3	0.10877		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-48.qld

Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:51:07 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.70	291.919	3165.067	1.153	bb	4.3

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.83	11936.756	30970.959	4.818	bb	39.4

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 L-PFOS	499 > 79.9	4.03	207.154	7867.302	0.329	MM	2.2

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-48.qld

Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

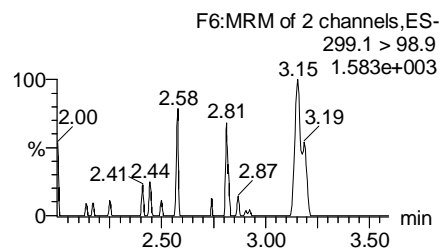
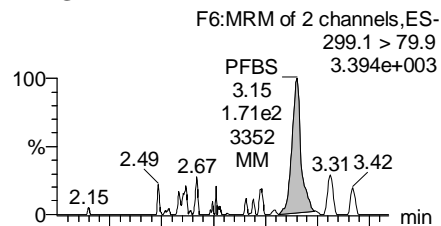
Printed: Thursday, September 28, 2017 09:51:07 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

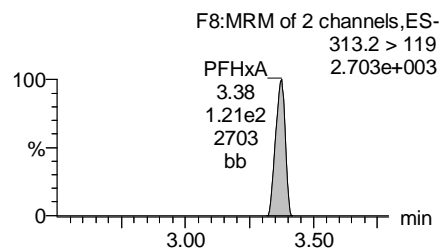
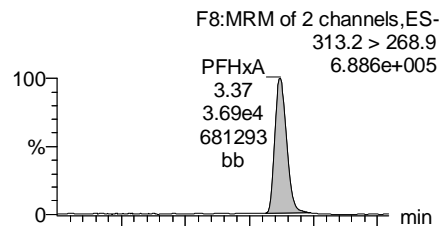
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Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

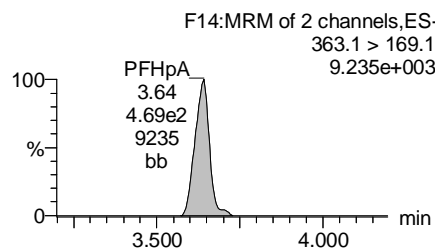
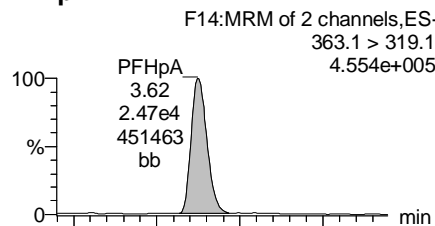
PFBS



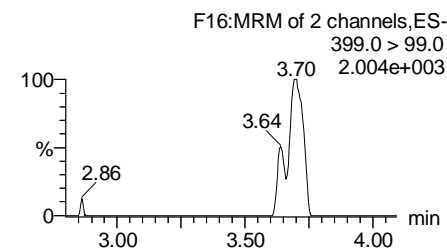
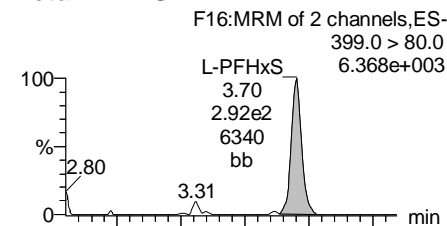
PFHxA



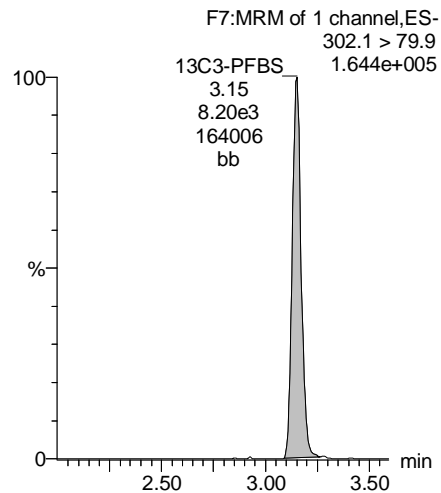
PFHpA



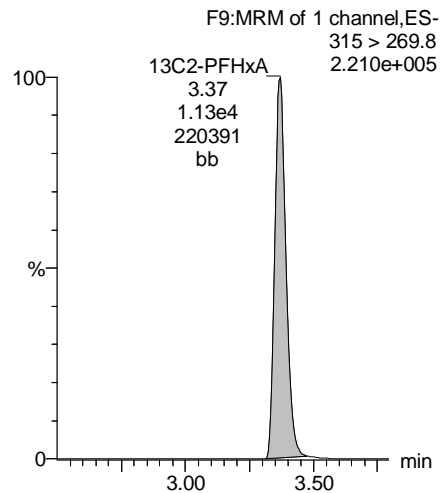
Total PFHxS



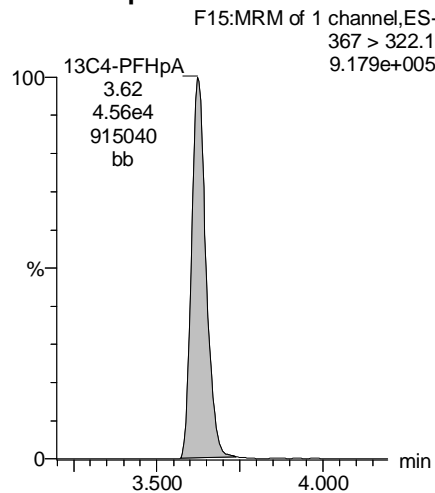
13C3-PFBS



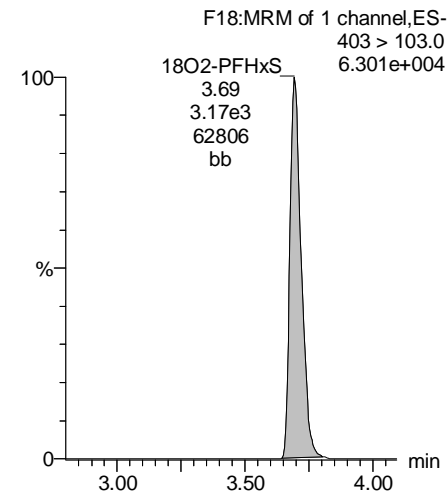
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



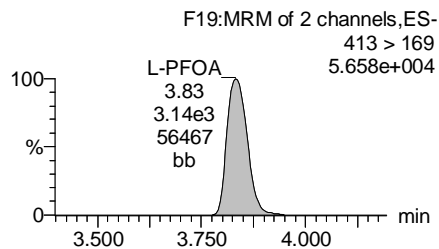
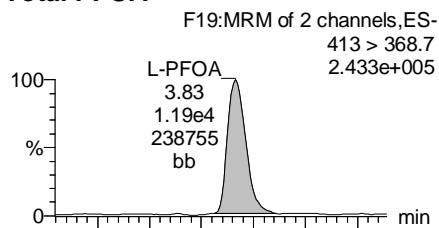
Dataset: U:\Q4.PRO\results\170926M1\170926M1-48.qld

Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

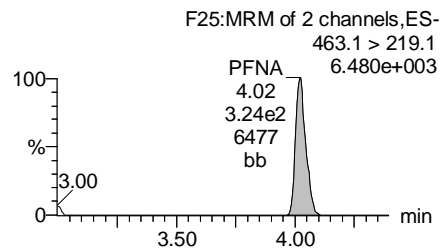
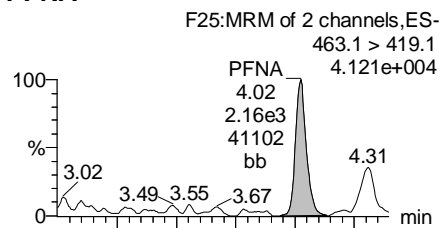
Printed: Thursday, September 28, 2017 09:51:07 Pacific Daylight Time

Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

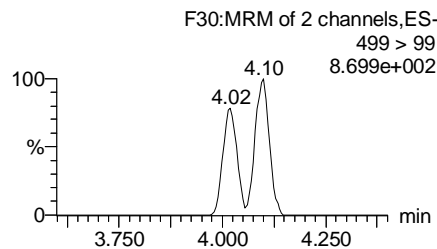
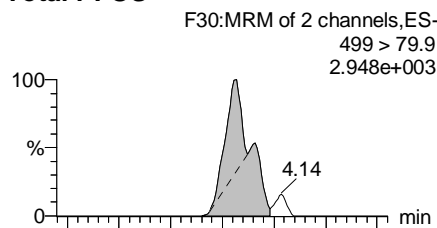
Total PFOA



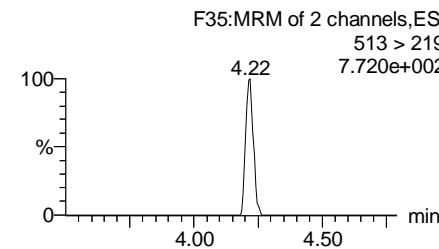
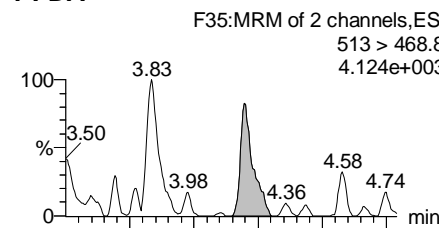
PFNA



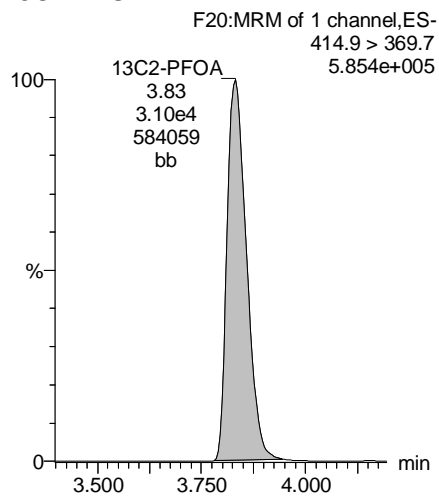
Total PFOS



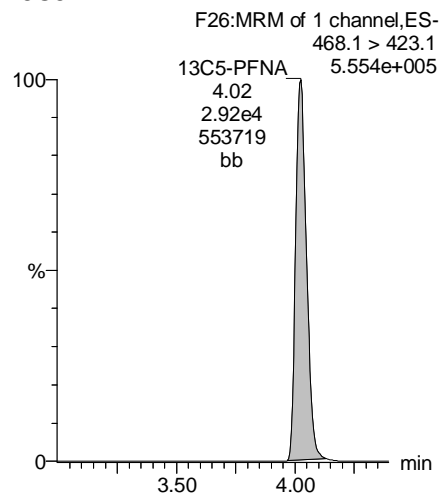
PFDA



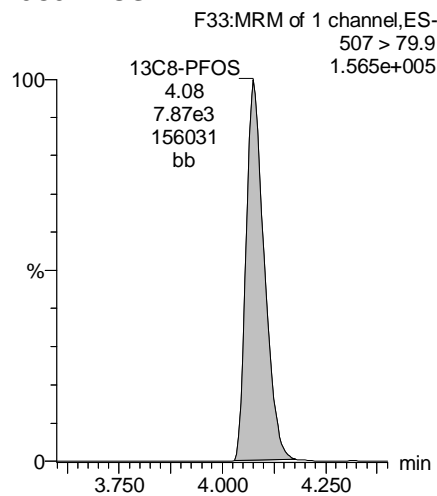
13C2-PFOA



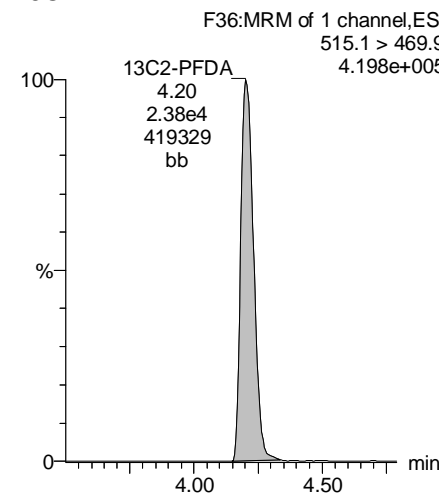
13C5-PFNA



13C8-PFOS



13C2-PFDA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-48.qld

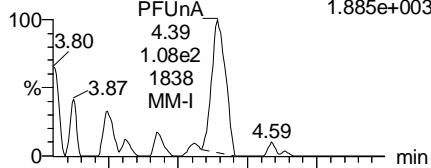
Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

Printed: Thursday, September 28, 2017 09:51:07 Pacific Daylight Time

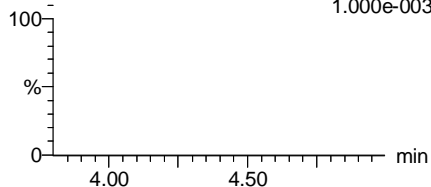
Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
1.885e+003

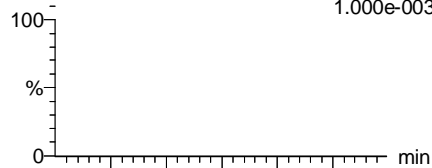


F43:MRM of 2 channels,ES-
562.9 > 269
1.000e-003

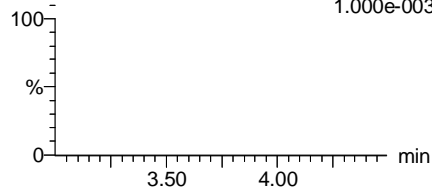


N-MeFOSAA

F45:MRM of 3 channels,ES-
570.1 > 419
1.000e-003

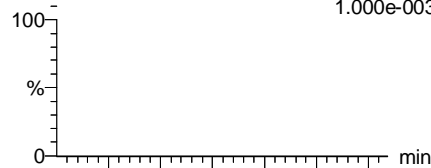


F45:MRM of 3 channels,ES-
570.1 > 483.1
1.000e-003

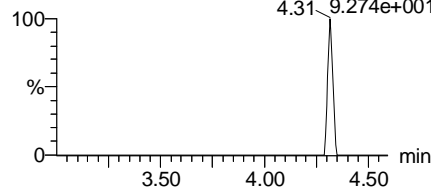


N-EtFOSAA

F48:MRM of 3 channels,ES-
584.2 > 419
1.000e-003

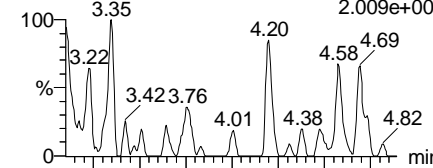


F48:MRM of 3 channels,ES-
584.1 > 526.1
9.274e+001

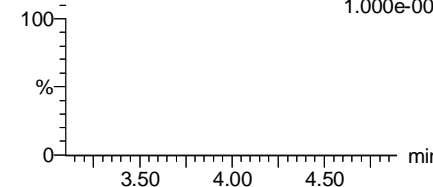


PFDaA

F51:MRM of 4 channels,ES-
613.0 > 569.1
2.009e+003

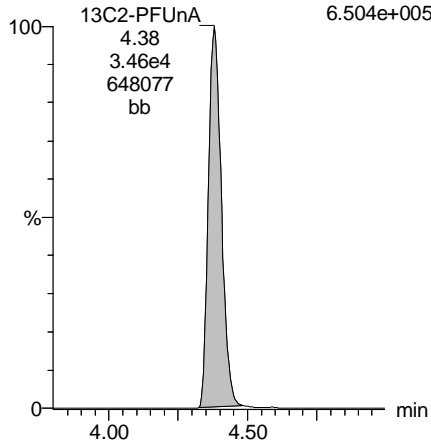


F51:MRM of 4 channels,ES-
613.0 > 319.1
1.000e-003



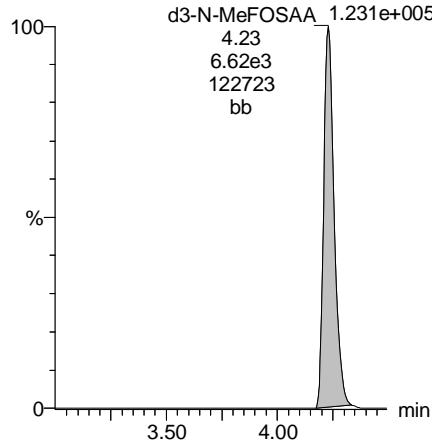
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
6.504e+005



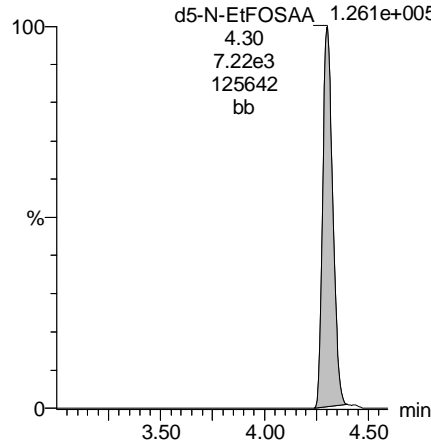
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
1.231e+005



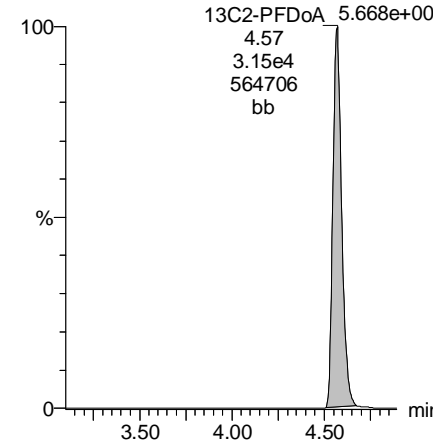
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
1.261e+005



13C2-PFDaA

F52:MRM of 2 channels,ES-
615.1 > 570.1
5.668e+005



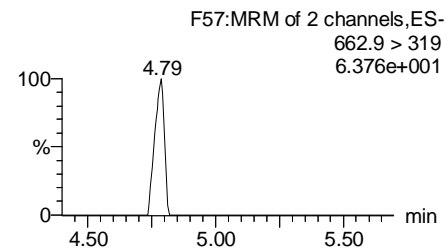
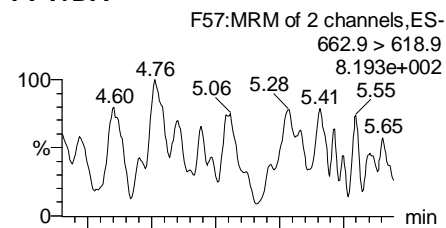
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Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

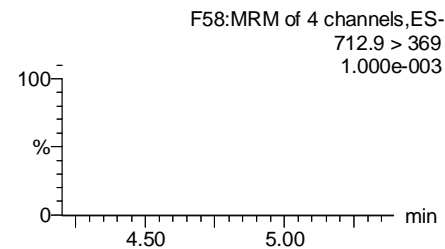
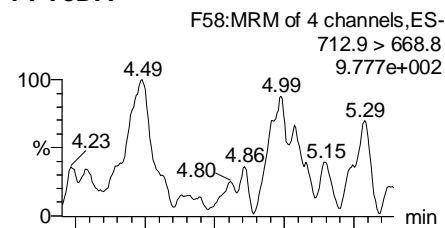
Printed: Thursday, September 28, 2017 09:51:07 Pacific Daylight Time

Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

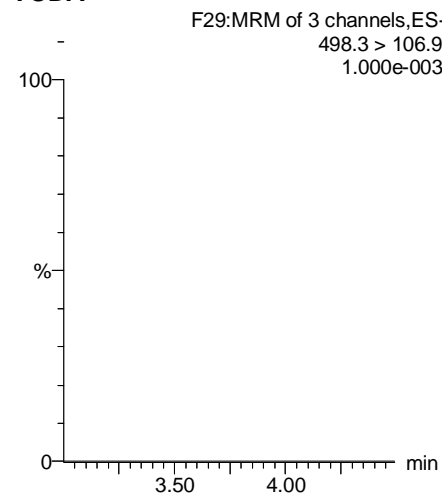
PFTrDA



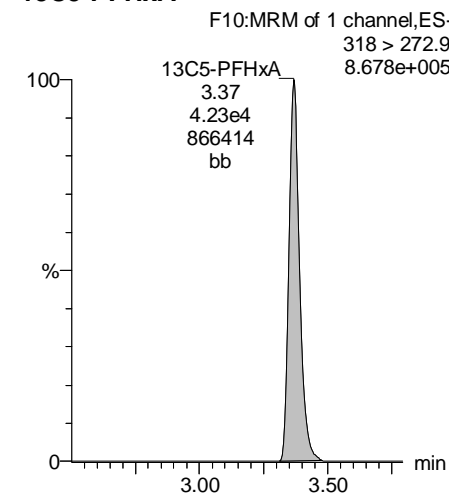
PFTeDA



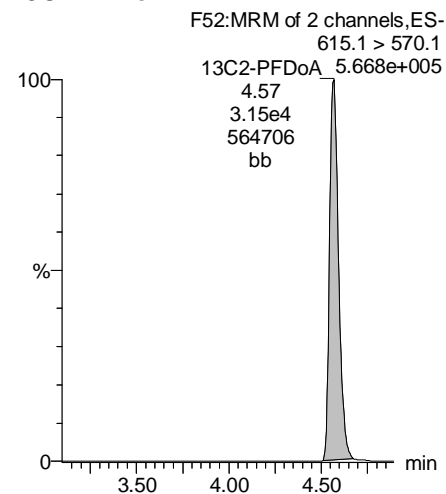
TCDA



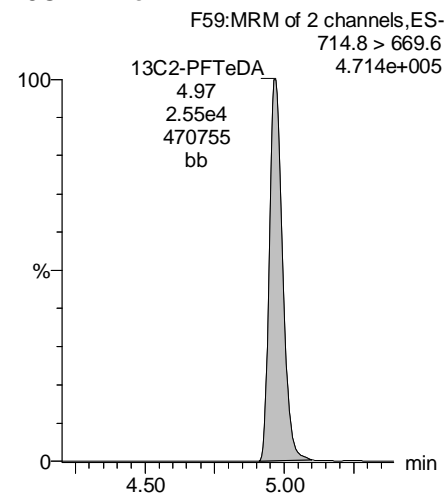
13C5-PFHxA



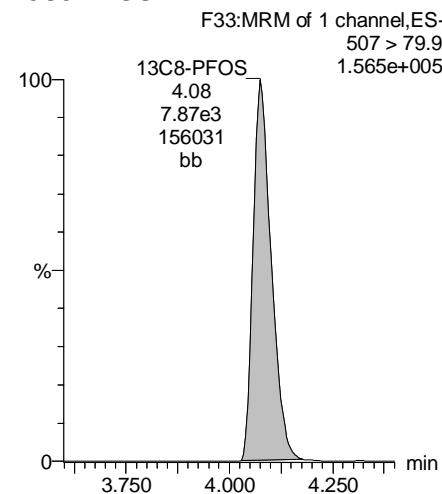
13C2-PFDoA



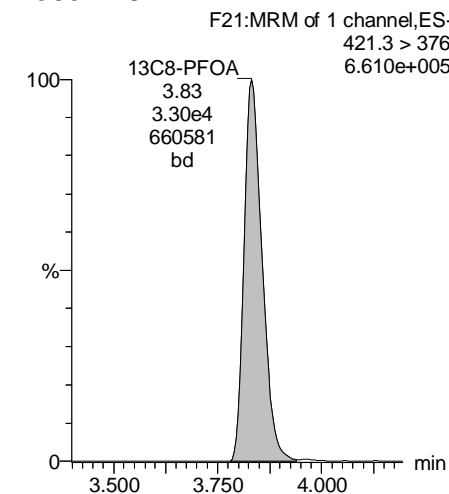
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



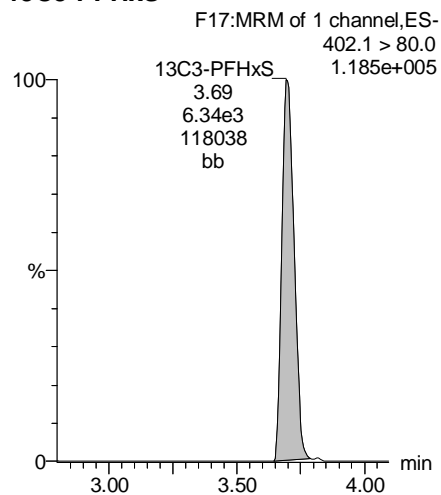
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Last Altered: Thursday, September 28, 2017 09:50:28 Pacific Daylight Time

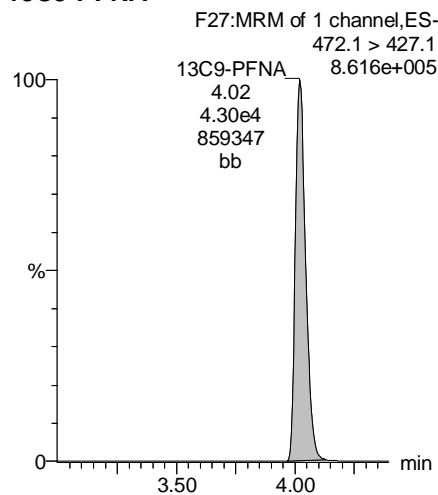
Printed: Thursday, September 28, 2017 09:51:07 Pacific Daylight Time

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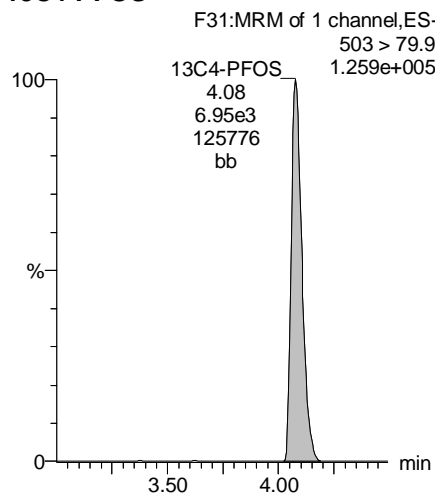
13C3-PFHxS



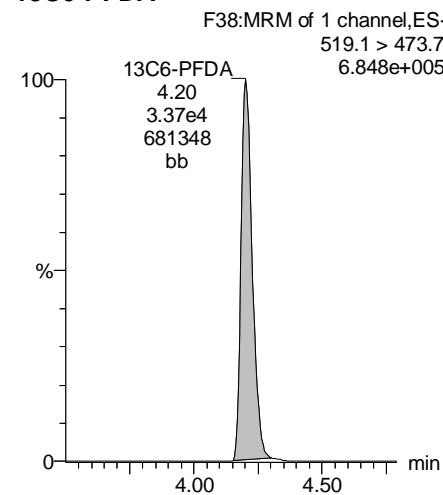
13C9-PFNA



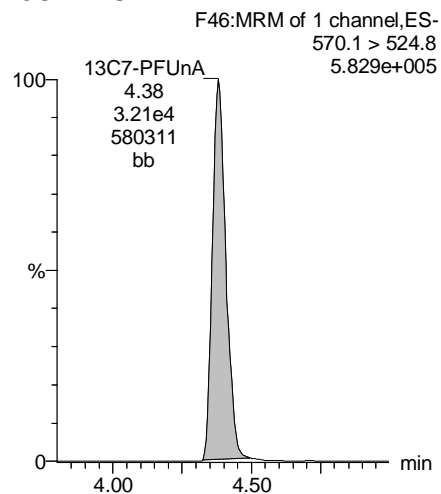
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:30:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

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2	4 PFHxA	313.2 > 268.9	6.11e4	1.29e4	0.11599		3.04	3.07	23.7	128	
3	5 PFHpA	363.1 > 319.1	5.23e4	6.06e4	0.11599		3.33	3.36	10.8	94.1	
4	6 L-PFHxS	399.0 > 80.0	4.35e2	4.39e3	0.11599		3.41	3.43	1.24	4.19	
5	9 L-PFOA	413 > 368.7	2.02e4	4.31e4	0.11599		3.54	3.57	5.85	47.4	
6	12 PFNA	463.1 > 419.1	5.44e3	4.15e4	0.11599		3.72	3.75	1.64	12.2	
7	14 L-PFOS	499 > 79.9	5.94e2	9.90e3	0.11599		3.77	3.80	0.750	5.74	
8	16 PFDA	513 > 468.8	8.57e2	3.56e4	0.11599		3.89	3.91	0.301	1.05	
9	18 N-MeFOSAA	570.1 > 419		3.27e3	0.11599		3.92				
10	19 N-EtFOSAA	584.2 > 419		3.93e3	0.11599		3.99				
11	20 PFUnA	562.9 > 518.9	3.47e2	4.50e4	0.11599		4.04	4.07	0.0965	0.988	
12	22 PFDoA	613.0 > 569.1		4.84e4	0.11599		4.19				

Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:32:17 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTeDA	662.9 > 618.9	4.84e4	0.11599		4.34				
2	25	PFTeDA	712.9 > 668.8	2.26e1	1.83e4	0.11599	4.49	4.54	0.0155		
3	31	13C3-PFBA	216.1 > 172.1	1.83e4	2.04e4	0.11599	0.860	1.27	1.27	11.2	104.3
4	32	13C3-PFPeA	266.1 > 222.1	3.75e4	4.61e4	0.11599	0.227	2.46	2.51	4.07	154
5	33	13C3-PFBS	302.1 > 79.9	1.02e4	4.61e4	0.11599	0.056	2.76	2.78	1.11	172
6	34	13C2-PFHxA	315 > 269.8	1.29e4	4.61e4	0.11599	0.279	3.04	3.07	1.40	43.3
7	35	13C4-PFHpA	367 > 322.1	6.06e4	4.61e4	0.11599	0.719	3.33	3.36	6.57	78.8
8	36	18O2-PFHxS	403 > 103.0	4.39e3	8.41e3	0.11599	0.477	3.41	3.43	6.53	118
9	37	13C2-6:2 FTS	429.1 > 408.9	3.85e3	4.01e4	0.11599	0.129	3.54	3.56	1.20	80.0
10	38	13C2-PFOA	414.9 > 369.7	4.31e4	4.01e4	0.11599	1.167	3.54	3.57	13.4	99.2
11	39	13C5-PFNA	468.1 > 423.1	4.15e4	5.26e4	0.11599	0.856	3.72	3.74	9.86	99.3
12	40	13C8-PFOSA	506.1 > 78.0	1.77e4	5.37e4	0.11599	0.467	4.75	4.76	4.12	76.1
13	41	13C8-PFOS	507 > 79.9	9.90e3	9.33e3	0.11599	0.983	3.77	3.80	13.3	116
14	42	13C2-PFDA	515.1 > 469.9	3.56e4	4.54e4	0.11599	0.859	3.89	3.91	9.81	98.5
15	43	13C2-8:2 FTS	529.1 > 508.7	3.76e3	4.54e4	0.11599	0.091	3.88	3.91	1.04	97.6
16	44	d3-N-MeFOSAA	573.3 > 419	3.27e3	5.37e4	0.11599	0.007	3.92	3.95	0.762	1010
17	45	d5-N-EtFOSAA	589.3 > 419	3.93e3	5.37e4	0.11599	0.007	3.99	4.02	0.914	1110
18	46	13C2-PFUnA	565 > 519.8	4.50e4	5.37e4	0.11599	0.938	4.04	4.07	10.5	96.3
19	47	13C2-PFDoA	615.1 > 570.1	4.84e4	5.37e4	0.11599	0.966	4.19	4.22	11.3	101
20	49	13C2-PFTeDA	714.8 > 669.6	1.83e4	5.37e4	0.11599	0.362	4.49	4.53	4.25	101
21	54	13C4-PFBA	217.1 > 172.1	2.04e4	2.04e4	0.11599	1.000	1.27	1.27	12.5	108
22	55	13C5-PFHxA	318 > 272.9	4.61e4	4.61e4	0.11599	1.000	3.04	3.07	5.00	43.1
23	56	13C3-PFHxS	402.1 > 80.0	8.41e3	8.41e3	0.11599	1.000	3.41	3.43	12.5	108
24	57	13C8-PFOA	421.3 > 376	4.01e4	4.01e4	0.11599	1.000	3.54	3.56	12.5	108
25	58	13C9-PFNA	472.1 > 427.1	5.26e4	5.26e4	0.11599	1.000	3.72	3.74	12.5	108
26	59	13C4-PFOS	503 > 79.9	9.33e3	9.33e3	0.11599	1.000	3.77	3.80	12.5	108
27	60	13C6-PFDA	519.1 > 473.7	4.54e4	4.54e4	0.11599	1.000	3.89	3.91	12.5	108
28	61	13C7-PFUnA	570.1 > 524.8	5.37e4	5.37e4	0.11599	1.000	4.04	4.07	12.5	108
29	62	Total PFHxS	399.0 > 80.0	4.35e2	4.39e3	0.11599		3.41		1.24	4.19
30	63	Total PFOA	413 > 368.7	2.02e4	4.31e4	0.11599		3.54		5.85	47.4
31	64	Total PFOS	499 > 79.9	5.94e2	9.90e3	0.11599		3.77		0.750	5.74
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	3.27e3	0.11599		3.92		0.000	

Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

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Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.93e3	0.11599		3.99		0.000		

Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:30:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 L-PFHxS	399.0 > 80.0	3.43	434.699	4392.325	1.237	MM	4.2
2	7 Br-PFHxS	399.0 > 80.0			4392.325		MM-I	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.57	20181.084	43104.906	5.852	bb	47.4

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15 Br-PFOS	499 > 79.9			9895.496		MM-	
2	14 L-PFOS	499 > 79.9	3.80	593.856	9895.496	0.750	MM	5.7

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

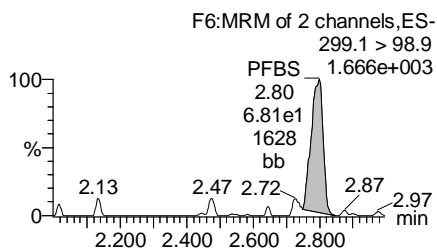
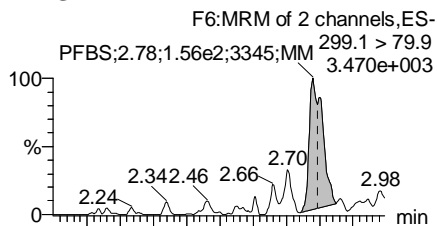
Printed: Monday, October 02, 2017 13:30:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

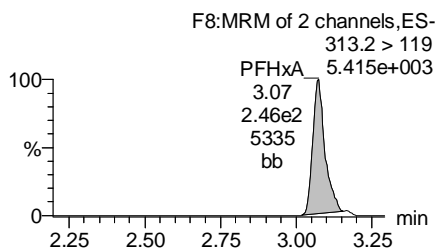
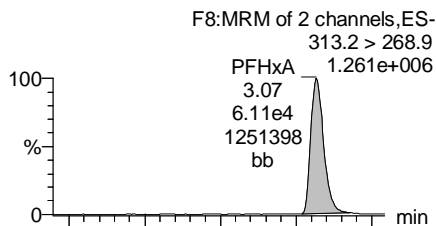
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Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

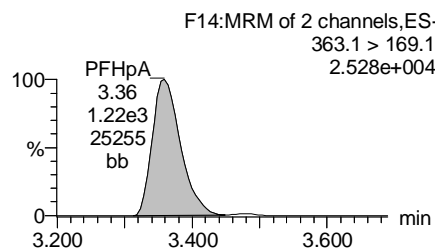
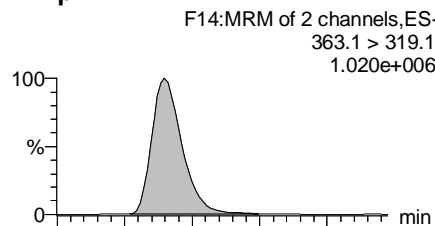
PFBS



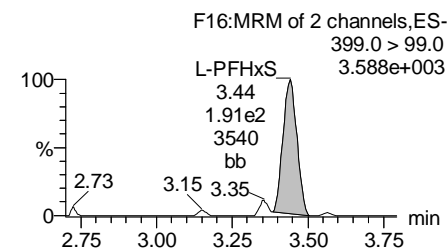
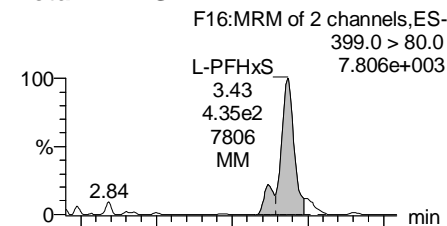
PFHxA



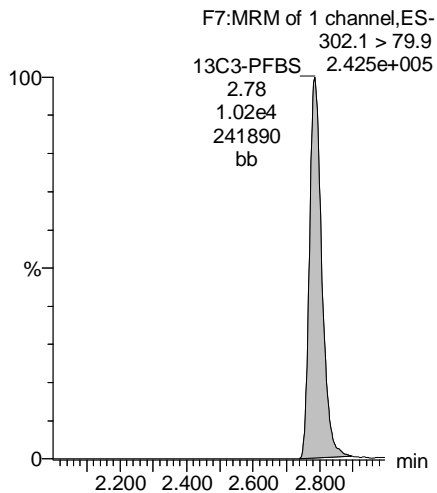
PFHpA



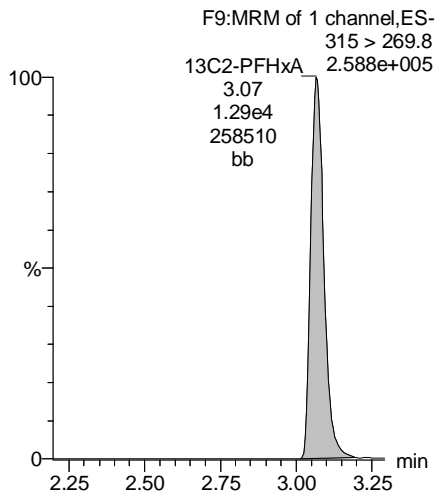
Total PFHxS



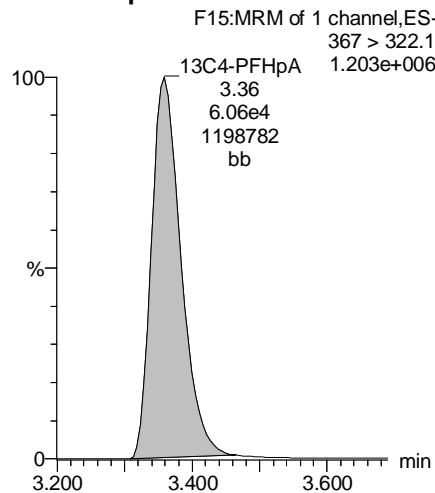
13C3-PFBS



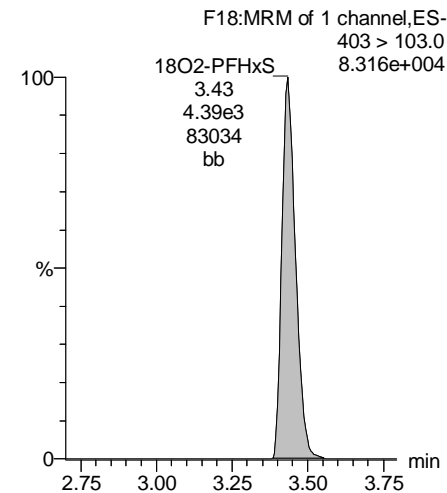
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

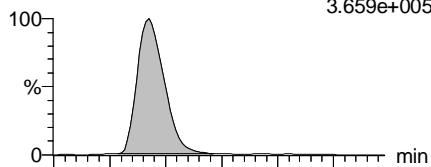
Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:30:29 Pacific Daylight Time

Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

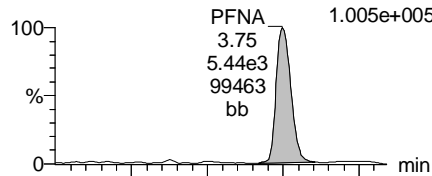
Total PFOA

F19:MRM of 2 channels,ES-
413 > 368.7
3.659e+005



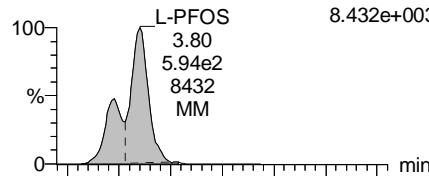
PFNA

F25:MRM of 2 channels,ES-
463.1 > 419.1
1.005e+005



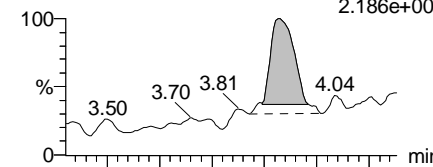
Total PFOS

F30:MRM of 2 channels,ES-
499 > 79.9
8.432e+003

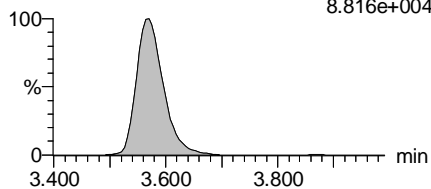


PFDA

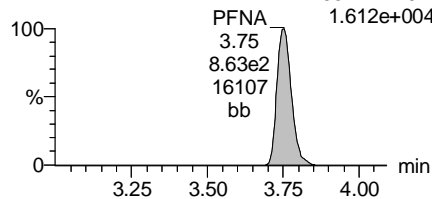
F35:MRM of 2 channels,ES-
513 > 468.8
2.186e+004



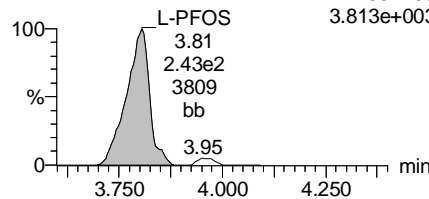
F19:MRM of 2 channels,ES-
413 > 169
8.816e+004



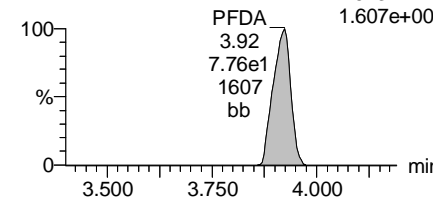
F25:MRM of 2 channels,ES-
463.1 > 219.1
1.612e+004



F30:MRM of 2 channels,ES-
499 > 99
3.813e+003

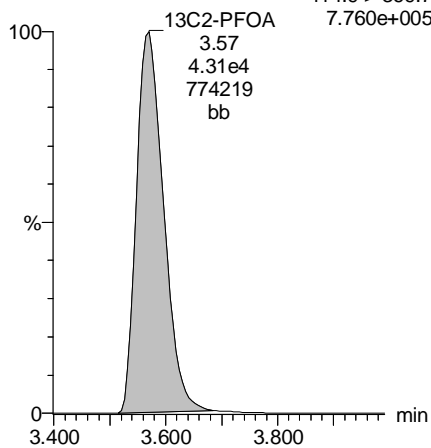


F35:MRM of 2 channels,ES-
513 > 219
1.607e+003



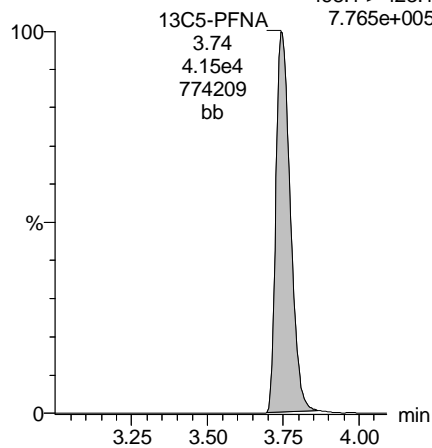
13C2-PFOA

F20:MRM of 1 channel,ES-
414.9 > 369.7
7.760e+005



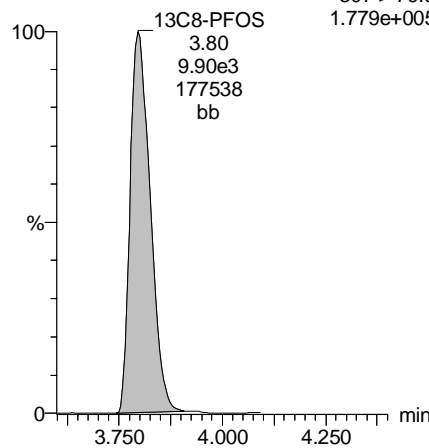
13C5-PFNA

F26:MRM of 1 channel,ES-
468.1 > 423.1
7.765e+005



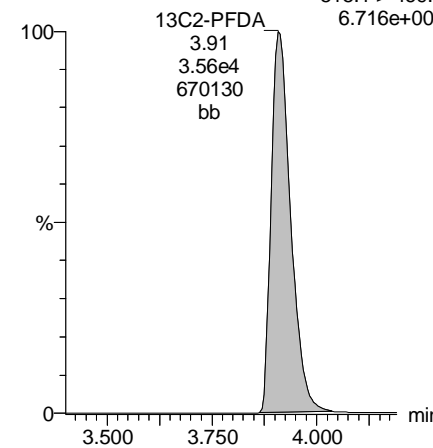
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.779e+005



13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
6.716e+005



Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

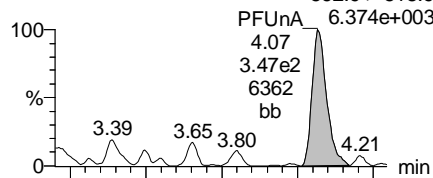
Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:30:29 Pacific Daylight Time

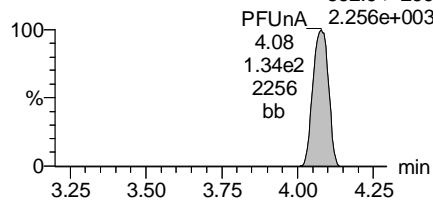
Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9

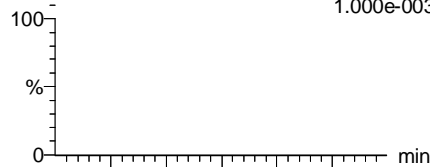


F43:MRM of 2 channels,ES-
562.9 > 269



N-MeFOSAA

F45:MRM of 3 channels,ES-
570.1 > 419
1.000e-003

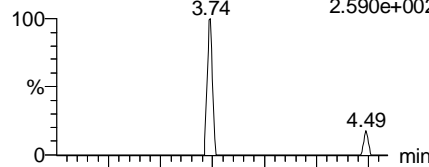


F45:MRM of 3 channels,ES-
570.1 > 483.1
1.000e-003

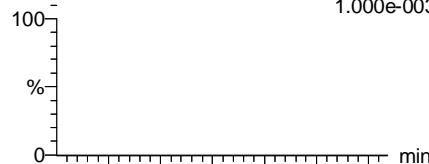


N-EtFOSAA

F48:MRM of 3 channels,ES-
584.2 > 419
2.590e+002

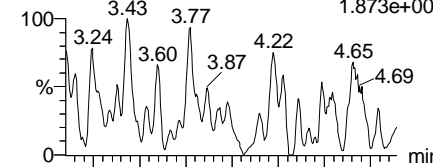


F48:MRM of 3 channels,ES-
584.1 > 526.1
1.000e-003



PFDaA

F51:MRM of 4 channels,ES-
613.0 > 569.1
1.873e+003

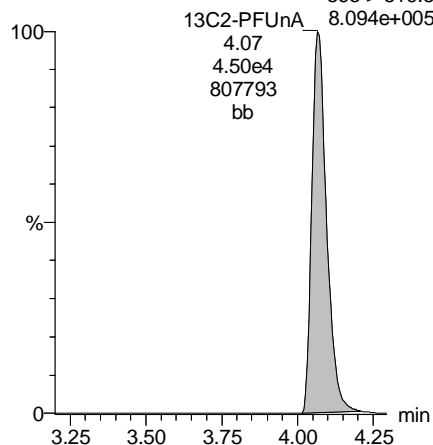


F51:MRM of 4 channels,ES-
613.0 > 319.1
1.000e-003



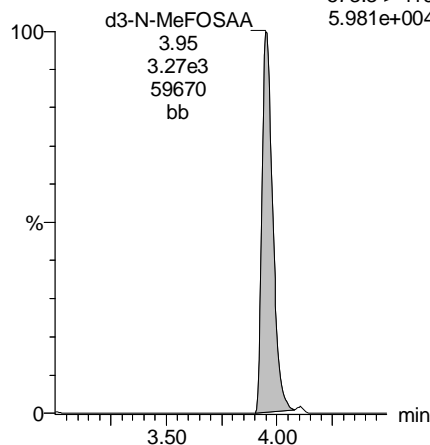
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8



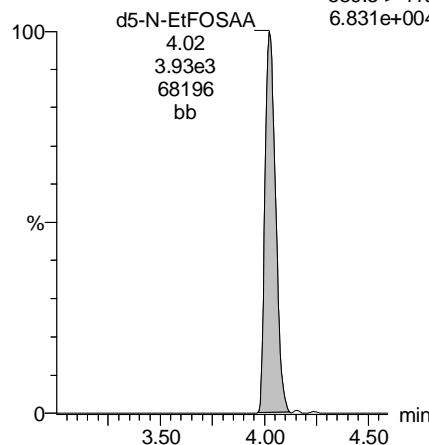
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
5.981e+004



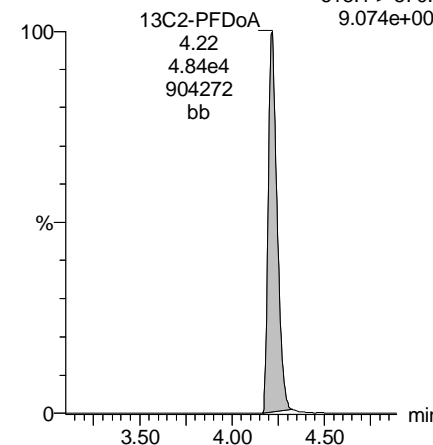
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
6.831e+004



13C2-PFDaA

F52:MRM of 2 channels,ES-
615.1 > 570.1
9.074e+005



Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

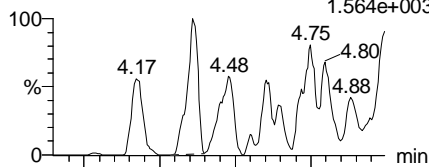
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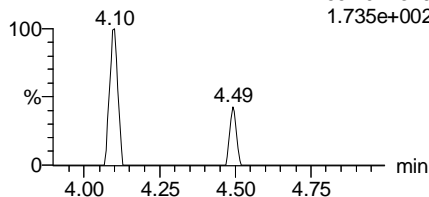
Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

PFTeDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
1.564e+003

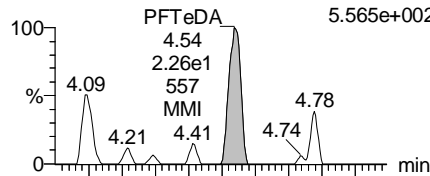


F57:MRM of 2 channels,ES-
662.9 > 319
1.735e+002

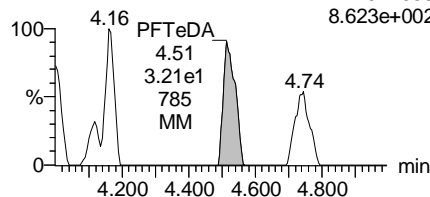


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
5.565e+002

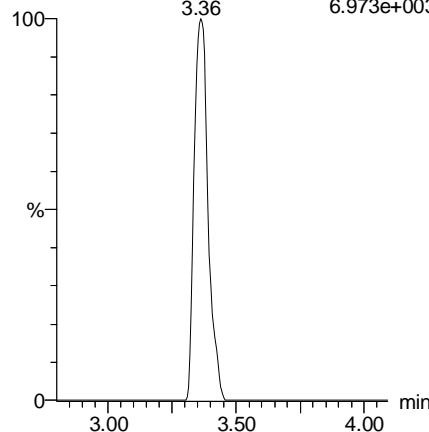


F58:MRM of 4 channels,ES-
712.9 > 369
8.623e+002



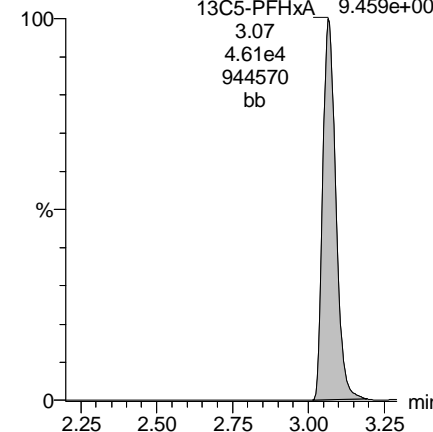
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
6.973e+003



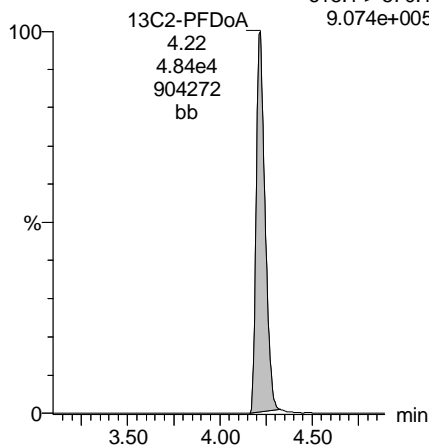
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
9.459e+005



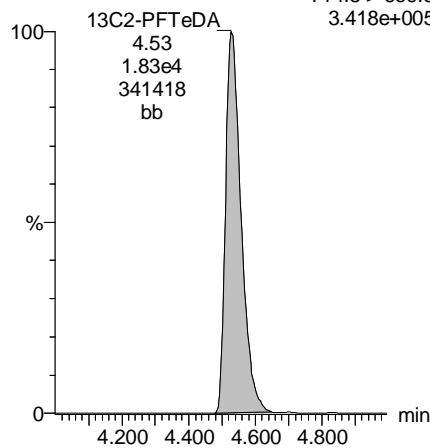
13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
9.074e+005



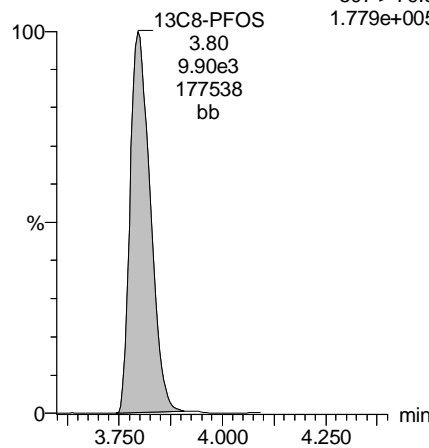
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
3.418e+005



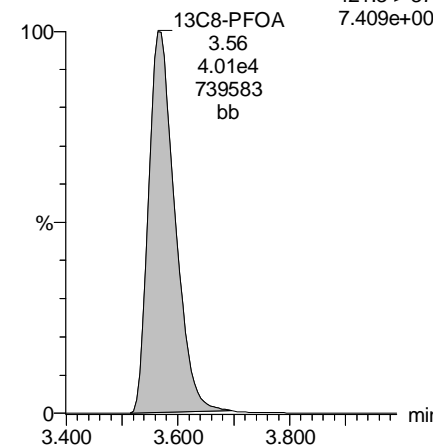
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.779e+005



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
7.409e+005



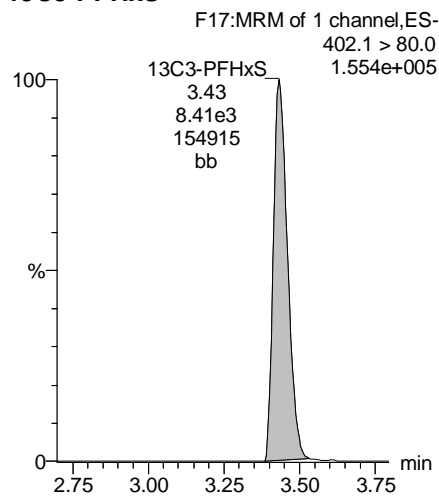
Dataset: U:\Q4.PRO\results\170928M3\170928M3-72.qld

Last Altered: Monday, October 02, 2017 13:29:53 Pacific Daylight Time

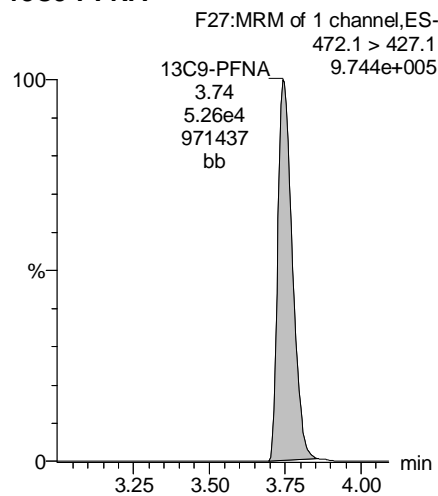
Printed: Monday, October 02, 2017 13:30:29 Pacific Daylight Time

Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

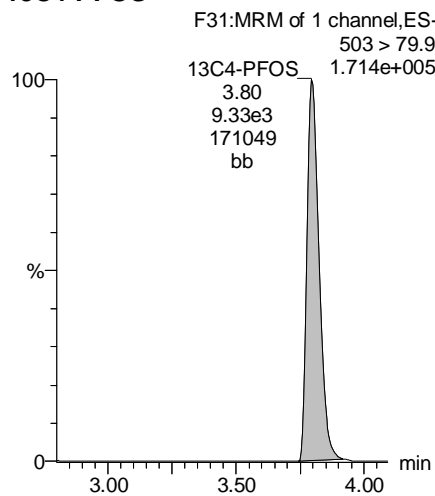
13C3-PFHxS



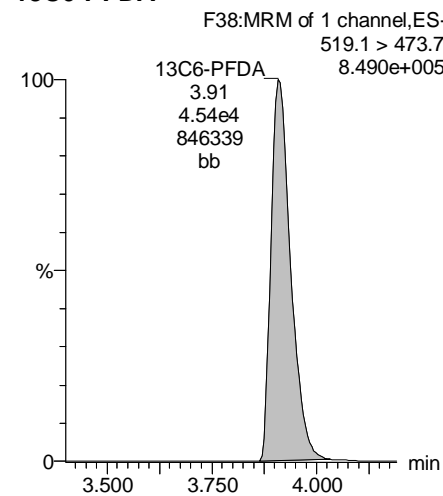
13C9-PFNA



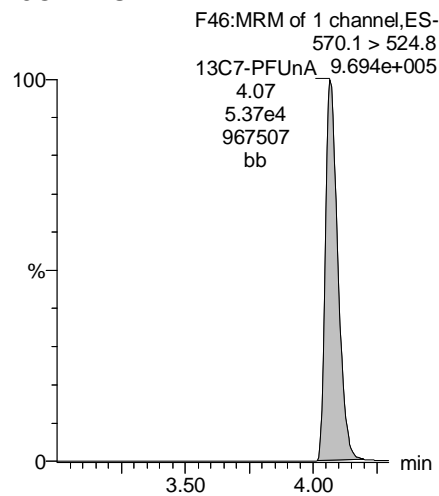
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:00:33 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.1 > 79.9		7.45e3	0.11555		3.17				
2	4 PFHxA	313.2 > 268.9		1.22e4	0.11555		3.37				
3	5 PFHpA	363.1 > 319.1		4.29e4	0.11555		3.63				
4	6 L-PFHxS	399.0 > 80.0		3.44e3	0.11555		3.71				
5	9 L-PFOA	413 > 368.7	7.15e2	3.28e4	0.11555		3.84	3.85	0.273		
6	12 PFNA	463.1 > 419.1		2.83e4	0.11555		4.03				
7	14 L-PFOS	499 > 79.9		7.38e3	0.11555		4.08				
8	16 PFDA	513 > 468.8		2.14e4	0.11555		4.21				
9	18 N-MeFOSAA	570.1 > 419		5.71e3	0.11555		4.24				
10	19 N-EtFOSAA	584.2 > 419		5.75e3	0.11555		4.32				
11	20 PFUnA	562.9 > 518.9		2.29e4	0.11555		4.39				
12	22 PFDaA	613.0 > 569.1		2.64e4	0.11555		4.59				

Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:00:47 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	2.64e4	0.11555		4.78				
2	25	PFTeDA	712.9 > 668.8	1.71e4	0.11555		4.99				
3	31	13C3-PFBA	216.1 > 172.1	4.96e3	2.35e4	0.11555	0.890	1.88	1.88	2.63	25.6 23.7
4	32	13C3-PFPeA	266.1 > 222.1	3.29e4	4.38e4	0.11555	0.236	2.98	2.99	3.75	138 127.1
5	33	13C3-PFBS	302.1 > 79.9	7.45e3	4.38e4	0.11555	0.056	3.17	3.18	0.850	132 121.7
6	34	13C2-PFHxA	315 > 269.8	1.22e4	4.38e4	0.11555	0.283	3.37	3.39	1.39	42.6 98.3
7	35	13C4-PFHpA	367 > 322.1	4.29e4	4.38e4	0.11555	0.499	3.63	3.65	4.90	84.9 78.5
8	36	18O2-PFHxS	403 > 103.0	3.44e3	6.99e3	0.11555	0.482	3.71	3.72	6.16	110 102.1
9	37	13C2-6:2 FTS	429.1 > 408.9	5.59e3	3.30e4	0.11555	0.183	3.84	3.85	2.12	100 92.4
10	38	13C2-PFOA	414.9 > 369.7	3.28e4	3.30e4	0.11555	1.158	3.84	3.85	12.4	92.7 85.7
11	39	13C5-PFNA	468.1 > 423.1	2.83e4	3.53e4	0.11555	0.888	4.03	4.04	10.0	97.7 90.4
12	40	13C8-PFOSA	506.1 > 78.0	2.16e3	3.85e4	0.11555	0.143	4.04	4.05	0.703	42.7 39.4
13	41	13C8-PFOS	507 > 79.9	7.38e3	6.95e3	0.11555	1.013	4.08	4.10	13.3	113 104.8
14	42	13C2-PFDA	515.1 > 469.9	2.14e4	3.55e4	0.11555	0.876	4.21	4.22	7.55	74.6 69.0
15	43	13C2-8:2 FTS	529.1 > 508.7	4.26e3	3.55e4	0.11555	0.148	4.21	4.22	1.50	87.9 81.3
16	44	d3-N-MeFOSAA	573.3 > 419	5.71e3	3.85e4	0.11555	0.017	4.24	4.25	1.85	941 66.9
17	45	d5-N-EtFOSAA	589.3 > 419	5.75e3	3.85e4	0.11555	0.019	4.32	4.32	1.87	870 61.9
18	46	13C2-PFUnA	565 > 519.8	2.29e4	3.85e4	0.11555	0.959	4.39	4.40	7.45	67.2 62.1
19	47	13C2-PFDoA	615.1 > 570.1	2.64e4	3.85e4	0.11555	1.003	4.59	4.59	8.57	74.0 68.4
20	49	13C2-PFTeDA	714.8 > 669.6	1.71e4	3.85e4	0.11555	0.716	4.99	4.99	5.55	67.1 62.0
21	54	13C4-PFBA	217.1 > 172.1	2.35e4	2.35e4	0.11555	1.000	1.88	1.91	12.5	108 100.0
22	55	13C5-PFHxA	318 > 272.9	4.38e4	4.38e4	0.11555	1.000	3.37	3.39	5.00	43.3 100.0
23	56	13C3-PFHxS	402.1 > 80.0	6.99e3	6.99e3	0.11555	1.000	3.71	3.72	12.5	108 100.0
24	57	13C8-PFOA	421.3 > 376	3.30e4	3.30e4	0.11555	1.000	3.84	3.85	12.5	108 100.0
25	58	13C9-PFNA	472.1 > 427.1	3.53e4	3.53e4	0.11555	1.000	4.03	4.04	12.5	108 100.0
26	59	13C4-PFOS	503 > 79.9	6.95e3	6.95e3	0.11555	1.000	4.08	4.10	12.5	108 100.0
27	60	13C6-PFDA	519.1 > 473.7	3.55e4	3.55e4	0.11555	1.000	4.21	4.22	12.5	108 100.0
28	61	13C7-PFUnA	570.1 > 524.8	3.85e4	3.85e4	0.11555	1.000	4.39	4.40	12.5	108 100.0
29	62	Total PFHxS	399.0 > 80.0	0.00e0	3.44e3	0.11555		3.71		0.000	
30	63	Total PFOA	413 > 368.7	7.15e2	3.28e4	0.11555		3.84		0.000	
31	64	Total PFOS	499 > 79.9	0.00e0	7.38e3	0.11555		4.08		0.000	
32	65	Total N-MeFOSAA	570.1 > 419	0.00e0	5.71e3	0.11555		4.24		0.000	

Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:00:47 Pacific Daylight Time

Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	66 Total N-EtFOSAA	584.2 > 419	0.00e0	5.75e3	0.11555		4.32		0.000		

Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:00:33 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total PFOA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	9 L-PFOA	413 > 368.7	3.85	715.227	32759.799	0.273	bbl	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-Me-FOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

#	Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:00:33 Pacific Daylight Time

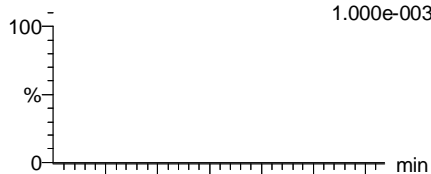
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

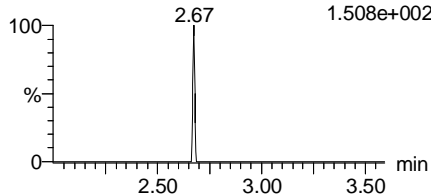
Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

PFBS

F6:MRM of 2 channels,ES-
299.1 > 79.9
1.000e-003

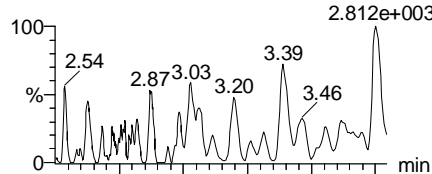


F6:MRM of 2 channels,ES-
299.1 > 98.9
1.508e+002

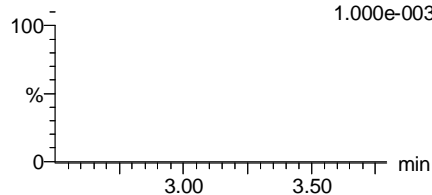


PFHxA

F8:MRM of 2 channels,ES-
313.2 > 268.9
2.812e+003

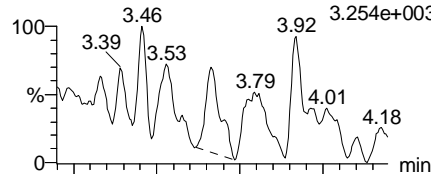


F8:MRM of 2 channels,ES-
313.2 > 119
1.000e-003

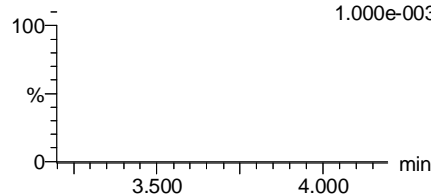


PFHpA

F14:MRM of 2 channels,ES-
363.1 > 319.1
3.254e+003

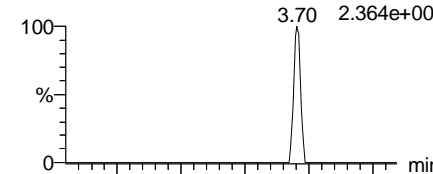


F14:MRM of 2 channels,ES-
363.1 > 169.1
1.000e-003

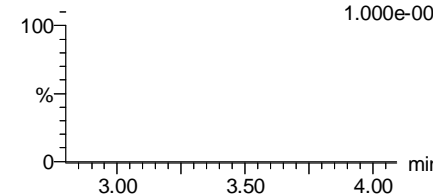


Total PFHxS

F16:MRM of 2 channels,ES-
399.0 > 80.0
2.364e+002

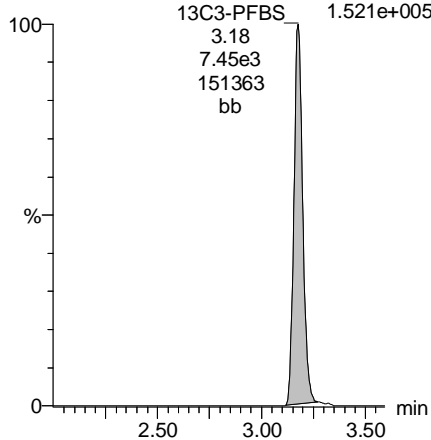


F16:MRM of 2 channels,ES-
399.0 > 99.0
1.000e-003



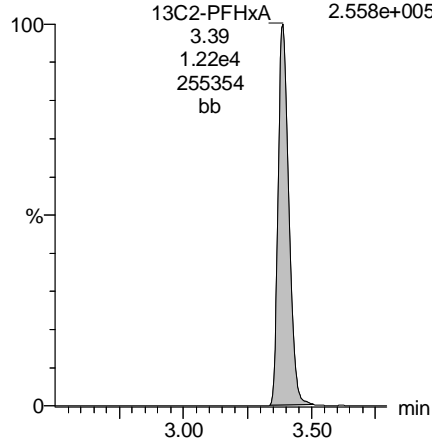
13C3-PFBS

F7:MRM of 1 channel,ES-
302.1 > 79.9
1.521e+005



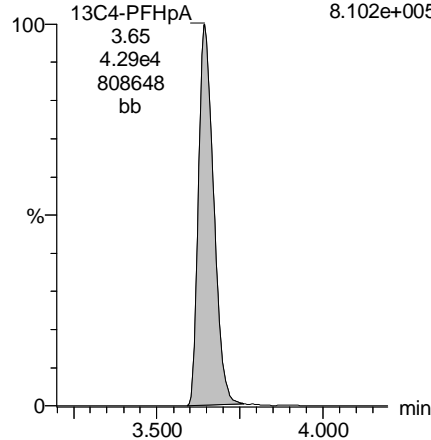
13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
2.558e+005



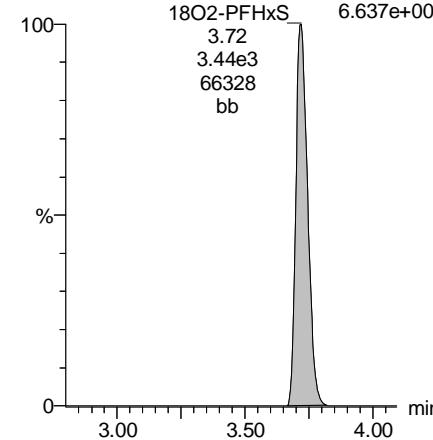
13C4-PFHpA

F15:MRM of 1 channel,ES-
367 > 322.1
8.102e+005



18O2-PFHxS

F18:MRM of 1 channel,ES-
403 > 103.0
6.637e+004

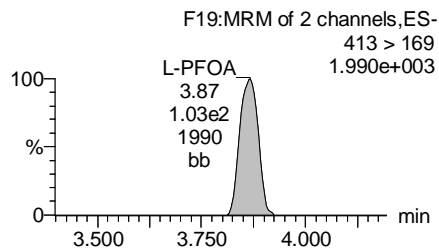
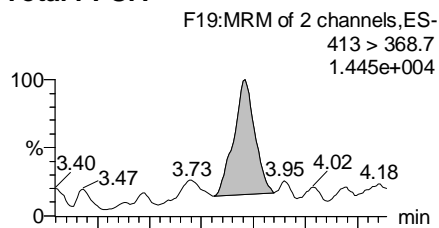


Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

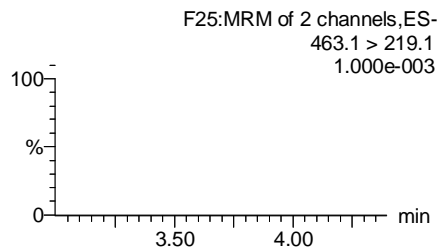
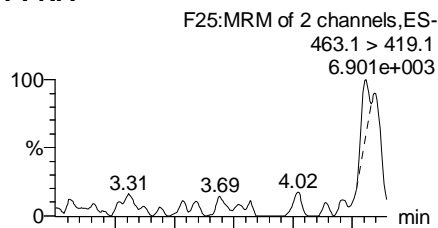
Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time
Printed: Thursday, September 28, 2017 10:00:33 Pacific Daylight Time

Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

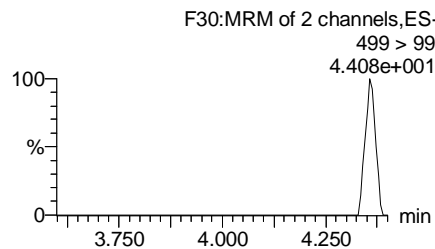
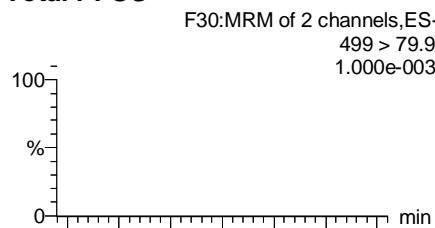
Total PFOA



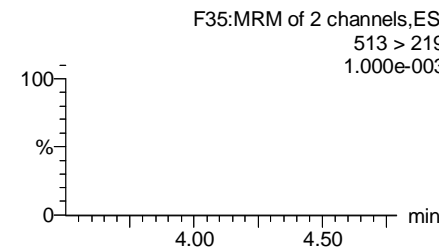
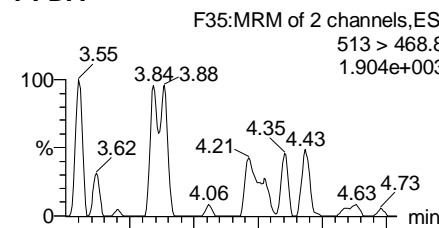
PFNA



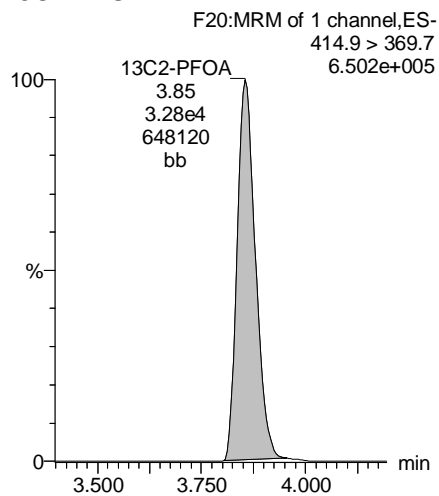
Total PFOS



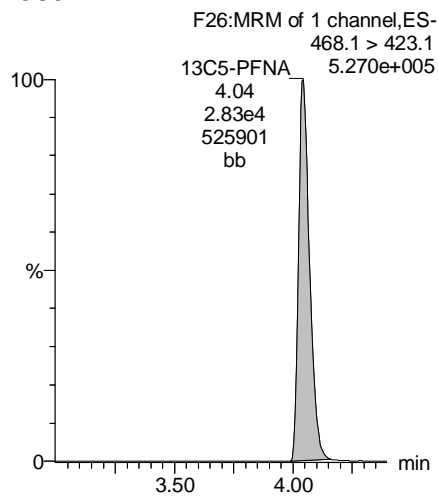
PFDA



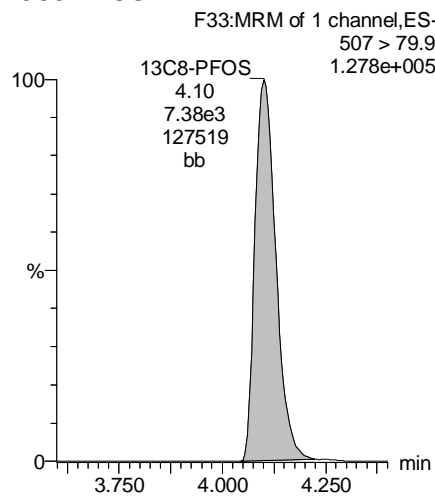
13C2-PFOA



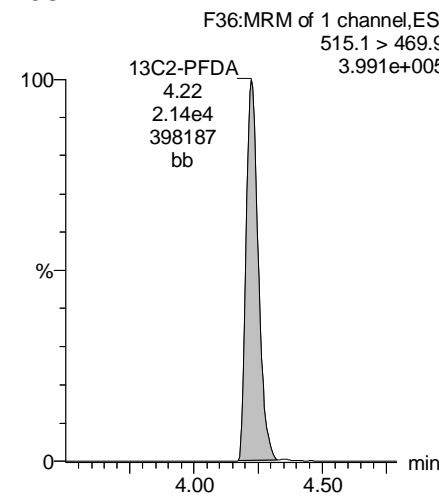
13C5-PFNA



13C8-PFOS



13C2-PFDA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

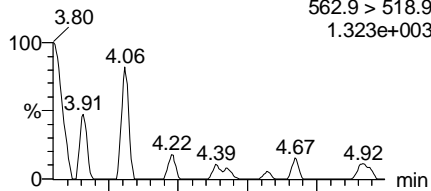
Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:00:33 Pacific Daylight Time

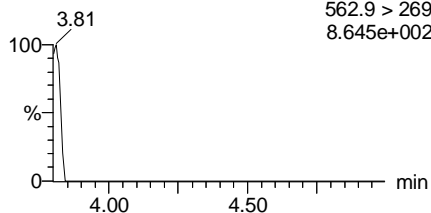
Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
1.323e+003

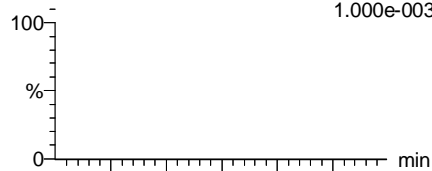


F43:MRM of 2 channels,ES-
562.9 > 269
8.645e+002

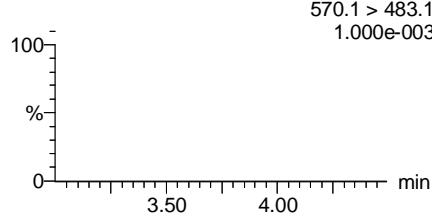


N-MeFOSAA

F45:MRM of 3 channels,ES-
570.1 > 419
1.000e-003

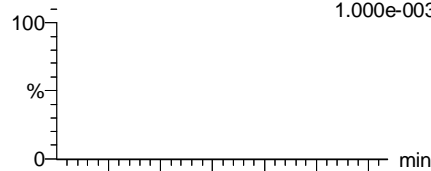


F45:MRM of 3 channels,ES-
570.1 > 483.1
1.000e-003

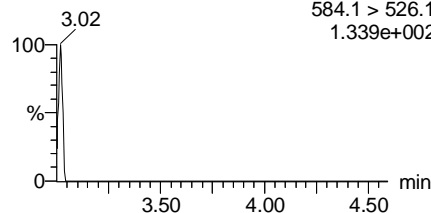


N-EtFOSAA

F48:MRM of 3 channels,ES-
584.2 > 419
1.000e-003

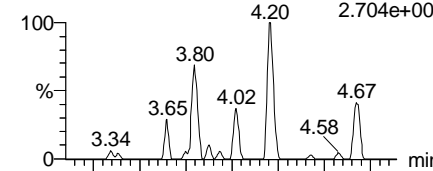


F48:MRM of 3 channels,ES-
584.1 > 526.1
1.339e+002

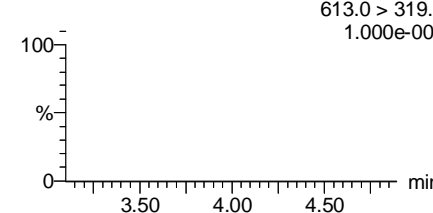


PFDaA

F51:MRM of 4 channels,ES-
613.0 > 569.1
2.704e+003

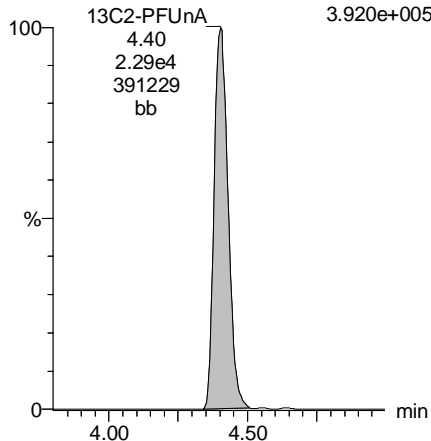


F51:MRM of 4 channels,ES-
613.0 > 319.1
1.000e-003



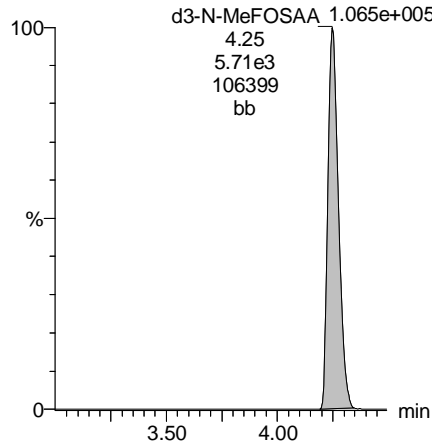
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
3.920e+005



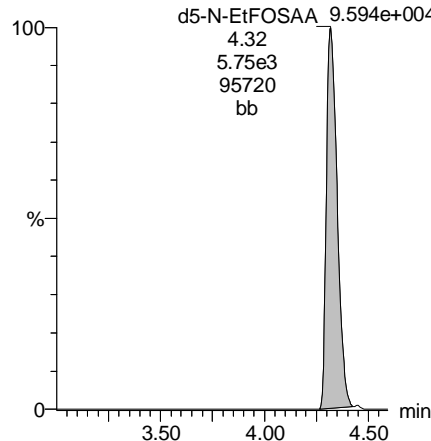
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
1.065e+005



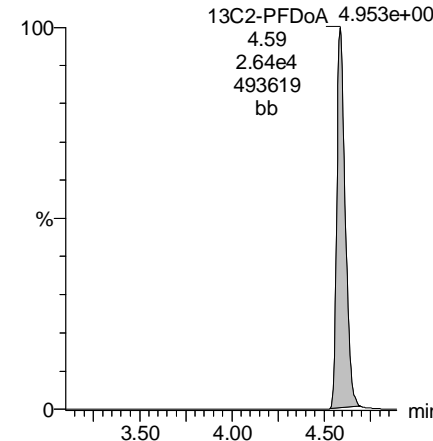
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
9.594e+004



13C2-PFDaA

F52:MRM of 2 channels,ES-
615.1 > 570.1
4.953e+005



Dataset: U:\Q4.PRO\results\170926M1\170926M1-50.qld

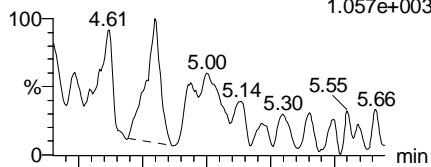
Last Altered: Thursday, September 28, 2017 09:59:59 Pacific Daylight Time

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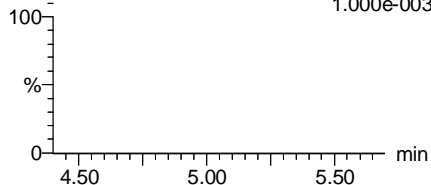
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PFTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
1.057e+003

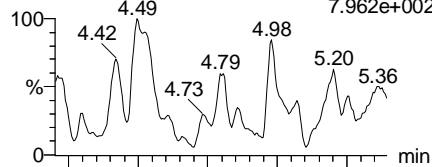


F57:MRM of 2 channels,ES-
662.9 > 319
1.000e-003

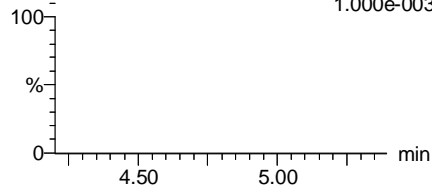


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
7.962e+002

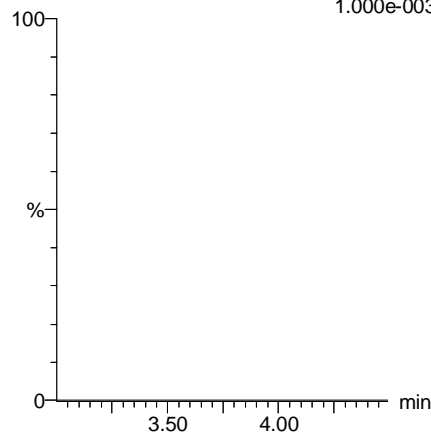


F58:MRM of 4 channels,ES-
712.9 > 369
1.000e-003



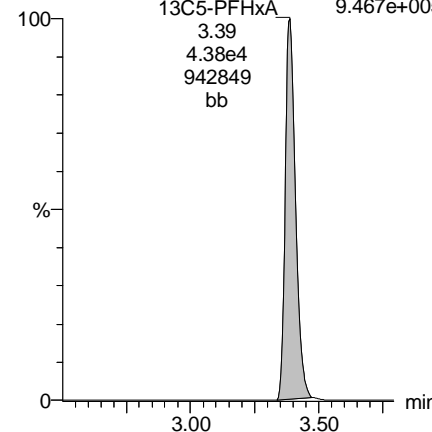
TCDA

F29:MRM of 3 channels,ES-
498.3 > 106.9
1.000e-003



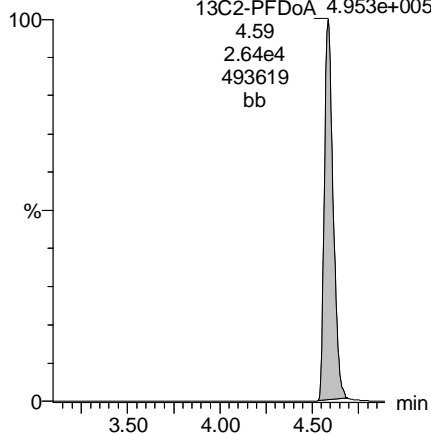
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
9.467e+005



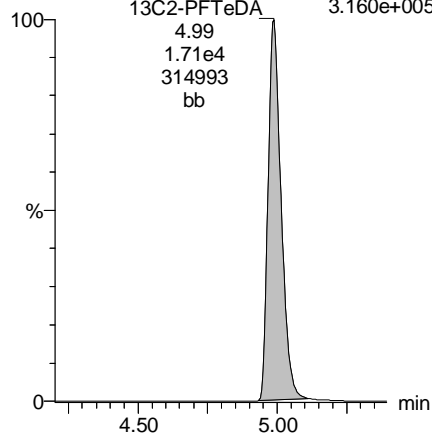
13C2-PFDoA

F52:MRM of 2 channels,ES-
615.1 > 570.1
13C2-PFDoA 4.953e+005



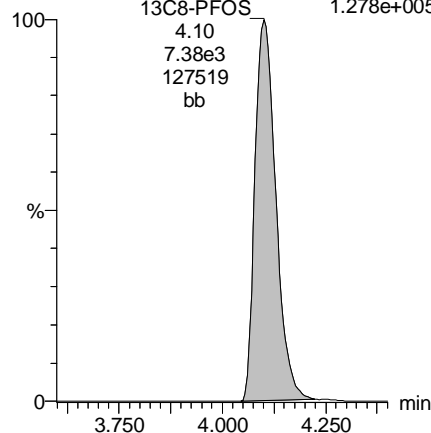
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
13C2-PFTeDA 3.160e+005



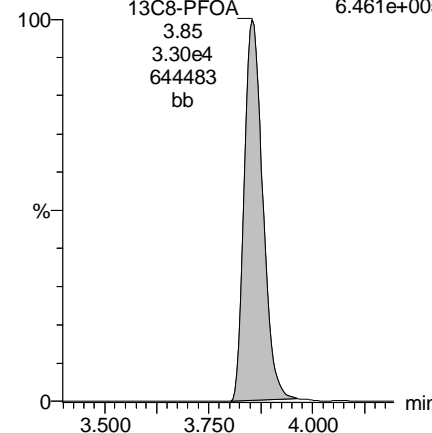
13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
13C8-PFOS 1.278e+005



13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
13C8-PFOA 6.461e+005



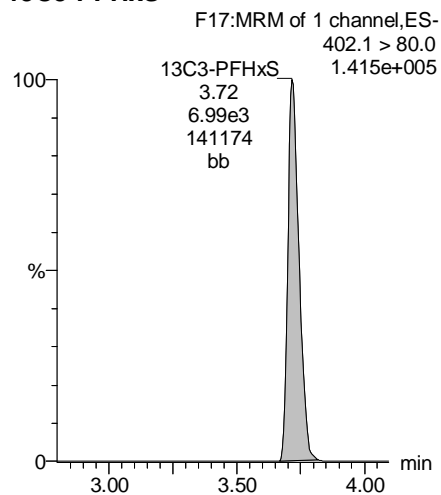
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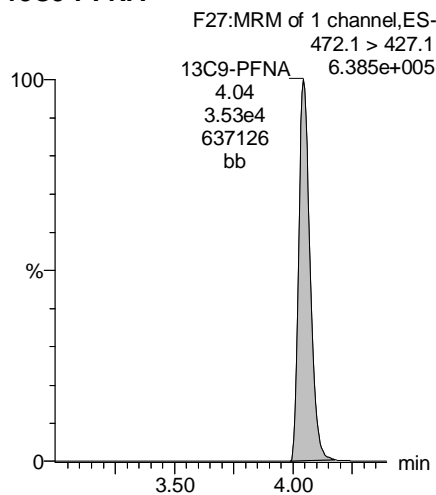
Printed: Thursday, September 28, 2017 10:00:33 Pacific Daylight Time

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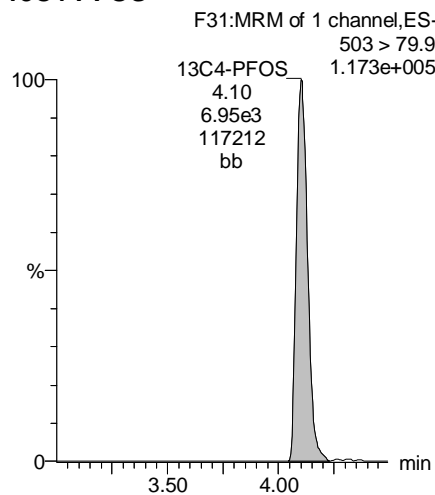
13C3-PFHxS



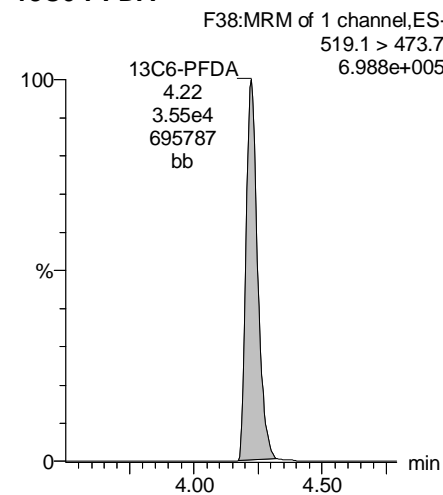
13C9-PFNA



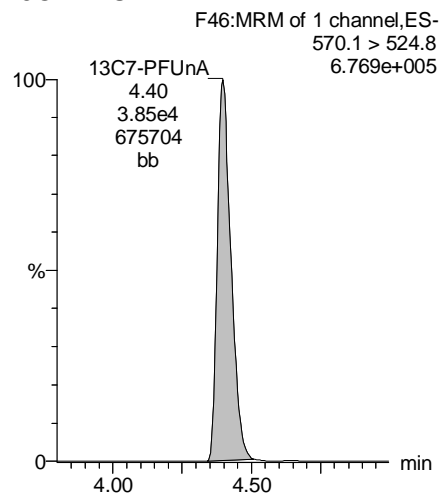
13C4-PFOS



13C6-PFDA



13C7-PFUnA



**INJECTION INTERNAL STANDARD (IIS) AREAS,
INSTRUMENT BLANKS (IB)
AND
CONTINUING CALIBRATION VERIFICATIONS (CCV)**

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Dataset: U:\Q4.PRO\results\170926M1\170926M1-122.qld

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Method: U:\Q4.PRO\MethDB\PFAS_RS-9-18-17.mdb 20 Sep 2017 13:50:37

Calibration: 04 Oct 2017 09:03:53

Name: 170926M1_11, Date: 26-Sep-2017, Time: 10:41:42, ID: ST170926M1-6 PFC CS3 1712509, Description: PFC CS3 1712509

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170926M1-6 PFC CS3 1712509	6.52e4	100.0	NO
2	2 13C3-PFHxS	ST170926M1-6 PFC CS3 1712509	1.00e4	100.0	NO
3	3 13C8-PFOA	ST170926M1-6 PFC CS3 1712509	4.59e4	100.0	NO
4	4 13C9-PFNA	ST170926M1-6 PFC CS3 1712509	6.16e4	100.0	NO
5	5 13C4-PFOS	ST170926M1-6 PFC CS3 1712509	1.17e4	100.0	NO
6	6 13C6-PFDA	ST170926M1-6 PFC CS3 1712509	4.93e4	100.0	NO
7	7 13C7-PFUnA	ST170926M1-6 PFC CS3 1712509	6.01e4	100.0	NO

Name: 170926M1_18, Date: 26-Sep-2017, Time: 11:56:37, ID: B710074-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B710074-BS1 OPR 0.125	4.32e4	66.2	NO
2	2 13C3-PFHxS	B710074-BS1 OPR 0.125	8.48e3	84.7	NO
3	3 13C8-PFOA	B710074-BS1 OPR 0.125	3.26e4	70.9	NO
4	4 13C9-PFNA	B710074-BS1 OPR 0.125	3.79e4	61.4	NO
5	5 13C4-PFOS	B710074-BS1 OPR 0.125	1.03e4	88.2	NO
6	6 13C6-PFDA	B710074-BS1 OPR 0.125	3.43e4	69.5	NO
7	7 13C7-PFUnA	B710074-BS1 OPR 0.125	3.71e4	61.7	NO

Name: 170926M1_19, Date: 26-Sep-2017, Time: 12:07:32, ID: B710105-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B710105-BS1 OPR 0.125	3.53e4	54.1	NO
2	2 13C3-PFHxS	B710105-BS1 OPR 0.125	7.07e3	70.6	NO
3	3 13C8-PFOA	B710105-BS1 OPR 0.125	3.02e4	65.8	NO
4	4 13C9-PFNA	B710105-BS1 OPR 0.125	4.09e4	66.3	NO
5	5 13C4-PFOS	B710105-BS1 OPR 0.125	8.42e3	72.0	NO
6	6 13C6-PFDA	B710105-BS1 OPR 0.125	2.96e4	60.1	NO
7	7 13C7-PFUnA	B710105-BS1 OPR 0.125	3.60e4	59.9	NO

Name: 170926M1_20, Date: 26-Sep-2017, Time: 12:18:42, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Dataset: U:\Q4.PRO\results\170926M1\170926M1-122.qld

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Name: 170926M1_21, Date: 26-Sep-2017, Time: 12:29:28, ID: B7I0074-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0074-BLK1 Method Blank 0.125	4.24e4	65.1	NO
2	2	13C3-PFHxS	B7I0074-BLK1 Method Blank 0.125	8.95e3	89.4	NO
3	3	13C8-PFOA	B7I0074-BLK1 Method Blank 0.125	2.72e4	59.1	NO
4	4	13C9-PFNA	B7I0074-BLK1 Method Blank 0.125	4.05e4	65.8	NO
5	5	13C4-PFOS	B7I0074-BLK1 Method Blank 0.125	9.54e3	81.7	NO
6	6	13C6-PFDA	B7I0074-BLK1 Method Blank 0.125	3.29e4	66.7	NO
7	7	13C7-PFUnA	B7I0074-BLK1 Method Blank 0.125	3.28e4	54.7	NO

Name: 170926M1_22, Date: 26-Sep-2017, Time: 12:40:06, ID: B7I0105-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0105-BLK1 Method Blank 0.125	4.02e4	61.6	NO
2	2	13C3-PFHxS	B7I0105-BLK1 Method Blank 0.125	7.48e3	74.7	NO
3	3	13C8-PFOA	B7I0105-BLK1 Method Blank 0.125	2.98e4	64.9	NO
4	4	13C9-PFNA	B7I0105-BLK1 Method Blank 0.125	4.42e4	71.7	NO
5	5	13C4-PFOS	B7I0105-BLK1 Method Blank 0.125	8.25e3	70.6	NO
6	6	13C6-PFDA	B7I0105-BLK1 Method Blank 0.125	3.48e4	70.6	NO
7	7	13C7-PFUnA	B7I0105-BLK1 Method Blank 0.125	3.82e4	63.5	NO

Name: 170926M1_23, Date: 26-Sep-2017, Time: 12:50:45, ID: B7I0105-MS1 Matrix Spike 0.125, Description: Matrix Spike

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0105-MS1 Matrix Spike 0.125	3.85e4	59.0	NO
2	2	13C3-PFHxS	B7I0105-MS1 Matrix Spike 0.125	6.93e3	69.2	NO
3	3	13C8-PFOA	B7I0105-MS1 Matrix Spike 0.125	3.12e4	67.9	NO
4	4	13C9-PFNA	B7I0105-MS1 Matrix Spike 0.125	3.71e4	60.2	NO
5	5	13C4-PFOS	B7I0105-MS1 Matrix Spike 0.125	7.80e3	66.8	NO
6	6	13C6-PFDA	B7I0105-MS1 Matrix Spike 0.125	3.23e4	65.5	NO
7	7	13C7-PFUnA	B7I0105-MS1 Matrix Spike 0.125	3.73e4	62.0	NO

Name: 170926M1_24, Date: 26-Sep-2017, Time: 13:01:31, ID: B7I0105-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0105-MSD1 Matrix Spike Dup 0.125	4.29e4	65.8	NO
2	2	13C3-PFHxS	B7I0105-MSD1 Matrix Spike Dup 0.125	7.38e3	73.7	NO
3	3	13C8-PFOA	B7I0105-MSD1 Matrix Spike Dup 0.125	3.18e4	69.2	NO
4	4	13C9-PFNA	B7I0105-MSD1 Matrix Spike Dup 0.125	4.29e4	69.6	NO
5	5	13C4-PFOS	B7I0105-MSD1 Matrix Spike Dup 0.125	9.29e3	79.6	NO
6	6	13C6-PFDA	B7I0105-MSD1 Matrix Spike Dup 0.125	3.91e4	79.2	NO
7	7	13C7-PFUnA	B7I0105-MSD1 Matrix Spike Dup 0.125	4.23e4	70.4	NO

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Name: 170926M1_25, Date: 26-Sep-2017, Time: 13:12:18, ID: 1701222-01 RI17-EB1-090817 0.125, Description: RI17-EB1-090817

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701222-01 RI17-EB1-090817 0.125	2.84e4	43.5	YES
2	2 13C3-PFHxS	1701222-01 RI17-EB1-090817 0.125	5.15e3	51.4	NO
3	3 13C8-PFOA	1701222-01 RI17-EB1-090817 0.125	2.33e4	50.7	NO
4	4 13C9-PFNA	1701222-01 RI17-EB1-090817 0.125	2.73e4	44.3	YES
5	5 13C4-PFOS	1701222-01 RI17-EB1-090817 0.125	6.28e3	53.8	NO
6	6 13C6-PFDA	1701222-01 RI17-EB1-090817 0.125	2.28e4	46.2	YES
7	7 13C7-PFUnA	1701222-01 RI17-EB1-090817 0.125	2.52e4	41.9	YES

Name: 170926M1_26, Date: 26-Sep-2017, Time: 13:23:04, ID: 1701222-02 VAS-RI17-B23 (105-107FT) 0.125, Description: VAS-RI17-B23 (105-107FT)

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701222-02 VAS-RI17-B23 (105-107FT...	3.09e4	47.4	YES
2	2 13C3-PFHxS	1701222-02 VAS-RI17-B23 (105-107FT...	5.79e3	57.8	NO
3	3 13C8-PFOA	1701222-02 VAS-RI17-B23 (105-107FT...	2.26e4	49.3	YES
4	4 13C9-PFNA	1701222-02 VAS-RI17-B23 (105-107FT...	2.85e4	46.2	YES
5	5 13C4-PFOS	1701222-02 VAS-RI17-B23 (105-107FT...	8.09e3	69.2	NO
6	6 13C6-PFDA	1701222-02 VAS-RI17-B23 (105-107FT...	2.69e4	54.6	NO
7	7 13C7-PFUnA	1701222-02 VAS-RI17-B23 (105-107FT...	3.21e4	53.4	NO

Name: 170926M1_27, Date: 26-Sep-2017, Time: 13:33:42, ID: 1701222-04 VAS-RI17-B22 (111-113FT) 0.125, Description: VAS-RI17-B22 (111-113FT)

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701222-04 VAS-RI17-B22 (111-113FT)..	3.38e4	51.9	NO
2	2 13C3-PFHxS	1701222-04 VAS-RI17-B22 (111-113FT)..	5.60e3	55.9	NO
3	3 13C8-PFOA	1701222-04 VAS-RI17-B22 (111-113FT)..	2.59e4	56.4	NO
4	4 13C9-PFNA	1701222-04 VAS-RI17-B22 (111-113FT)..	3.34e4	54.2	NO
5	5 13C4-PFOS	1701222-04 VAS-RI17-B22 (111-113FT)..	7.11e3	60.8	NO
6	6 13C6-PFDA	1701222-04 VAS-RI17-B22 (111-113FT)..	2.98e4	60.5	NO
7	7 13C7-PFUnA	1701222-04 VAS-RI17-B22 (111-113FT)..	3.22e4	53.7	NO

Name: 170926M1_28, Date: 26-Sep-2017, Time: 13:44:29, ID: 1701222-05 VAS-RI17-B22 (111-113FT) DUP 0.125, Description: VAS-RI17-B22 (111-113FT) DUP

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701222-05 VAS-RI17-B22 (111-113FT)..	3.16e4	48.5	YES
2	2 13C3-PFHxS	1701222-05 VAS-RI17-B22 (111-113FT)..	6.07e3	60.6	NO
3	3 13C8-PFOA	1701222-05 VAS-RI17-B22 (111-113FT)..	2.67e4	58.2	NO
4	4 13C9-PFNA	1701222-05 VAS-RI17-B22 (111-113FT)..	3.55e4	57.6	NO
5	5 13C4-PFOS	1701222-05 VAS-RI17-B22 (111-113FT)..	7.23e3	61.9	NO
6	6 13C6-PFDA	1701222-05 VAS-RI17-B22 (111-113FT)..	2.97e4	60.2	NO
7	7 13C7-PFUnA	1701222-05 VAS-RI17-B22 (111-113FT)..	3.06e4	50.9	NO

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Name: 170926M1_29, Date: 26-Sep-2017, Time: 13:55:07, ID: 1701267-01 Lodge Sink 0.125, Description: Lodge Sink

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701267-01 Lodge Sink 0.125	3.95e4	60.6	NO
2	2 13C3-PFHxS	1701267-01 Lodge Sink 0.125	7.30e3	72.9	NO
3	3 13C8-PFOA	1701267-01 Lodge Sink 0.125	2.99e4	65.2	NO
4	4 13C9-PFNA	1701267-01 Lodge Sink 0.125	3.99e4	64.8	NO
5	5 13C4-PFOS	1701267-01 Lodge Sink 0.125	7.94e3	68.0	NO
6	6 13C6-PFDA	1701267-01 Lodge Sink 0.125	3.01e4	61.0	NO
7	7 13C7-PFUnA	1701267-01 Lodge Sink 0.125	3.68e4	61.3	NO

Name: 170926M1_30, Date: 26-Sep-2017, Time: 14:05:46, ID: 1701270-01 Anchorage (420-126505-1) 0.125, Description: Anchorage (420-126505-1)

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701270-01 Anchorage (420-126505-1) ...	3.60e4	55.3	NO
2	2 13C3-PFHxS	1701270-01 Anchorage (420-126505-1) ...	6.69e3	66.8	NO
3	3 13C8-PFOA	1701270-01 Anchorage (420-126505-1) ...	2.82e4	61.4	NO
4	4 13C9-PFNA	1701270-01 Anchorage (420-126505-1) ...	3.39e4	55.1	NO
5	5 13C4-PFOS	1701270-01 Anchorage (420-126505-1) ...	7.77e3	66.5	NO
6	6 13C6-PFDA	1701270-01 Anchorage (420-126505-1) ...	2.96e4	60.1	NO
7	7 13C7-PFUnA	1701270-01 Anchorage (420-126505-1) ...	3.45e4	57.4	NO

Name: 170926M1_31, Date: 26-Sep-2017, Time: 14:17:06, ID: 1701270-02 Field Blank (PFAS) (420-126505-2) 0.125, Description: Field Blank (PFAS) (420-126505-2)

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701270-02 Field Blank (PFAS) (420-12...	3.25e4	49.9	YES
2	2 13C3-PFHxS	1701270-02 Field Blank (PFAS) (420-12...	5.76e3	57.5	NO
3	3 13C8-PFOA	1701270-02 Field Blank (PFAS) (420-12...	2.62e4	57.1	NO
4	4 13C9-PFNA	1701270-02 Field Blank (PFAS) (420-12...	3.42e4	55.5	NO
5	5 13C4-PFOS	1701270-02 Field Blank (PFAS) (420-12...	7.01e3	60.0	NO
6	6 13C6-PFDA	1701270-02 Field Blank (PFAS) (420-12...	3.09e4	62.6	NO
7	7 13C7-PFUnA	1701270-02 Field Blank (PFAS) (420-12...	3.44e4	57.3	NO

Name: 170926M1_32, Date: 26-Sep-2017, Time: 14:28:46, ID: 1701279-01 GR-OF-20170918 0.125, Description: GR-OF-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-01 GR-OF-20170918 0.125	3.80e4	58.3	NO
2	2 13C3-PFHxS	1701279-01 GR-OF-20170918 0.125	7.63e3	76.3	NO
3	3 13C8-PFOA	1701279-01 GR-OF-20170918 0.125	2.68e4	58.4	NO
4	4 13C9-PFNA	1701279-01 GR-OF-20170918 0.125	3.48e4	56.4	NO
5	5 13C4-PFOS	1701279-01 GR-OF-20170918 0.125	9.27e3	79.3	NO
6	6 13C6-PFDA	1701279-01 GR-OF-20170918 0.125	3.31e4	67.2	NO
7	7 13C7-PFUnA	1701279-01 GR-OF-20170918 0.125	3.62e4	60.2	NO

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Name: 170926M1_33, Date: 26-Sep-2017, Time: 14:40:21, ID: 1701279-02 MH-117N-20170918 0.125, Description: MH-117N-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-02 MH-117N-20170918 0.125	4.08e4	62.7	NO
2	2 13C3-PFHxS	1701279-02 MH-117N-20170918 0.125	5.91e3	59.1	NO
3	3 13C8-PFOA	1701279-02 MH-117N-20170918 0.125	2.94e4	63.9	NO
4	4 13C9-PFNA	1701279-02 MH-117N-20170918 0.125	3.73e4	60.5	NO
5	5 13C4-PFOS	1701279-02 MH-117N-20170918 0.125	7.17e3	61.3	NO
6	6 13C6-PFDA	1701279-02 MH-117N-20170918 0.125	3.19e4	64.7	NO
7	7 13C7-PFUnA	1701279-02 MH-117N-20170918 0.125	3.72e4	61.8	NO

Name: 170926M1_34, Date: 26-Sep-2017, Time: 14:51:00, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-03 MH-117T-20170918 0.125	3.60e4	55.3	NO
2	2 13C3-PFHxS	1701279-03 MH-117T-20170918 0.125	6.73e3	67.2	NO
3	3 13C8-PFOA	1701279-03 MH-117T-20170918 0.125	2.56e4	55.8	NO
4	4 13C9-PFNA	1701279-03 MH-117T-20170918 0.125	3.39e4	55.0	NO
5	5 13C4-PFOS	1701279-03 MH-117T-20170918 0.125	7.32e3	62.7	NO
6	6 13C6-PFDA	1701279-03 MH-117T-20170918 0.125	3.13e4	63.5	NO
7	7 13C7-PFUnA	1701279-03 MH-117T-20170918 0.125	2.97e4	49.4	YES

Name: 170926M1_35, Date: 26-Sep-2017, Time: 15:01:50, ID: 1701279-04 MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-04 MH-118.5N-20170918 0.125	3.74e4	57.4	NO
2	2 13C3-PFHxS	1701279-04 MH-118.5N-20170918 0.125	5.93e3	59.2	NO
3	3 13C8-PFOA	1701279-04 MH-118.5N-20170918 0.125	2.88e4	62.6	NO
4	4 13C9-PFNA	1701279-04 MH-118.5N-20170918 0.125	3.77e4	61.1	NO
5	5 13C4-PFOS	1701279-04 MH-118.5N-20170918 0.125	5.85e3	50.1	NO
6	6 13C6-PFDA	1701279-04 MH-118.5N-20170918 0.125	2.76e4	55.9	NO
7	7 13C7-PFUnA	1701279-04 MH-118.5N-20170918 0.125	3.34e4	55.6	NO

Name: 170926M1_36, Date: 26-Sep-2017, Time: 15:12:33, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-05 MH-118.5T-20170918 0.125	3.41e4	52.4	NO
2	2 13C3-PFHxS	1701279-05 MH-118.5T-20170918 0.125	5.59e3	55.8	NO
3	3 13C8-PFOA	1701279-05 MH-118.5T-20170918 0.125	2.95e4	64.2	NO
4	4 13C9-PFNA	1701279-05 MH-118.5T-20170918 0.125	3.70e4	60.1	NO
5	5 13C4-PFOS	1701279-05 MH-118.5T-20170918 0.125	7.12e3	60.9	NO
6	6 13C6-PFDA	1701279-05 MH-118.5T-20170918 0.125	3.42e4	69.4	NO
7	7 13C7-PFUnA	1701279-05 MH-118.5T-20170918 0.125	3.83e4	63.8	NO

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Name: 170926M1_37, Date: 26-Sep-2017, Time: 15:23:12, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 17I2509, Description: PFC CS3 17I2509

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170926M1-11 PFC CS3 17I2509	6.99e4	107.2	NO
2	2 13C3-PFHxS	ST170926M1-11 PFC CS3 17I2509	1.05e4	105.3	NO
3	3 13C8-PFOA	ST170926M1-11 PFC CS3 17I2509	4.80e4	104.5	NO
4	4 13C9-PFNA	ST170926M1-11 PFC CS3 17I2509	6.26e4	101.5	NO
5	5 13C4-PFOS	ST170926M1-11 PFC CS3 17I2509	1.24e4	105.7	NO
6	6 13C6-PFDA	ST170926M1-11 PFC CS3 17I2509	5.60e4	113.6	NO
7	7 13C7-PFUnA	ST170926M1-11 PFC CS3 17I2509	5.80e4	96.5	NO

Name: 170926M1_39, Date: 26-Sep-2017, Time: 15:44:29, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_40, Date: 26-Sep-2017, Time: 15:55:18, ID: 1701279-06 MH-121.5N-20170918 0.125, Description: MH-121.5N-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-06 MH-121.5N-20170918 0.125	3.61e4	55.3	NO
2	2 13C3-PFHxS	1701279-06 MH-121.5N-20170918 0.125	6.55e3	65.5	NO
3	3 13C8-PFOA	1701279-06 MH-121.5N-20170918 0.125	2.99e4	65.0	NO
4	4 13C9-PFNA	1701279-06 MH-121.5N-20170918 0.125	3.97e4	64.4	NO
5	5 13C4-PFOS	1701279-06 MH-121.5N-20170918 0.125	7.19e3	61.5	NO
6	6 13C6-PFDA	1701279-06 MH-121.5N-20170918 0.125	3.30e4	67.0	NO
7	7 13C7-PFUnA	1701279-06 MH-121.5N-20170918 0.125	3.35e4	55.8	NO

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Name: 170926M1_41, Date: 26-Sep-2017, Time: 16:06:02, ID: 1701279-07 MH-121.5T-20170918 0.125, Description: MH-121.5T-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-07 MH-121.5T-20170918 0.125	3.78e4	58.0	NO
2	2 13C3-PFHxS	1701279-07 MH-121.5T-20170918 0.125	6.43e3	64.2	NO
3	3 13C8-PFOA	1701279-07 MH-121.5T-20170918 0.125	2.79e4	60.8	NO
4	4 13C9-PFNA	1701279-07 MH-121.5T-20170918 0.125	3.50e4	56.7	NO
5	5 13C4-PFOS	1701279-07 MH-121.5T-20170918 0.125	7.35e3	62.9	NO
6	6 13C6-PFDA	1701279-07 MH-121.5T-20170918 0.125	2.94e4	59.7	NO
7	7 13C7-PFUnA	1701279-07 MH-121.5T-20170918 0.125	3.66e4	60.9	NO

Name: 170926M1_42, Date: 26-Sep-2017, Time: 16:17:01, ID: 1701279-08 WEST DITCH IN-20170918 0.125, Description: WEST DITCH IN-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-08 WEST DITCH IN-2017091...	4.04e4	62.0	NO
2	2 13C3-PFHxS	1701279-08 WEST DITCH IN-2017091...	6.78e3	67.7	NO
3	3 13C8-PFOA	1701279-08 WEST DITCH IN-2017091...	2.79e4	60.9	NO
4	4 13C9-PFNA	1701279-08 WEST DITCH IN-2017091...	3.69e4	59.9	NO
5	5 13C4-PFOS	1701279-08 WEST DITCH IN-2017091...	6.74e3	57.7	NO
6	6 13C6-PFDA	1701279-08 WEST DITCH IN-2017091...	3.08e4	62.4	NO
7	7 13C7-PFUnA	1701279-08 WEST DITCH IN-2017091...	3.91e4	65.1	NO

Name: 170926M1_43, Date: 26-Sep-2017, Time: 16:28:13, ID: 1701279-09 DUP01-20170918 0.125, Description: DUP01-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-09 DUP01-20170918 0.125	3.83e4	58.8	NO
2	2 13C3-PFHxS	1701279-09 DUP01-20170918 0.125	6.02e3	60.1	NO
3	3 13C8-PFOA	1701279-09 DUP01-20170918 0.125	2.66e4	58.0	NO
4	4 13C9-PFNA	1701279-09 DUP01-20170918 0.125	3.88e4	63.0	NO
5	5 13C4-PFOS	1701279-09 DUP01-20170918 0.125	7.31e3	62.6	NO
6	6 13C6-PFDA	1701279-09 DUP01-20170918 0.125	2.74e4	55.7	NO
7	7 13C7-PFUnA	1701279-09 DUP01-20170918 0.125	3.06e4	50.9	NO

Name: 170926M1_44, Date: 26-Sep-2017, Time: 16:38:53, ID: 1701279-10 MH-140-BOTTOM 0.125, Description: MH-140-BOTTOM

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-10 MH-140-BOTTOM 0.125	3.65e4	56.0	NO
2	2 13C3-PFHxS	1701279-10 MH-140-BOTTOM 0.125	6.54e3	65.3	NO
3	3 13C8-PFOA	1701279-10 MH-140-BOTTOM 0.125	2.96e4	64.4	NO
4	4 13C9-PFNA	1701279-10 MH-140-BOTTOM 0.125	3.80e4	61.7	NO
5	5 13C4-PFOS	1701279-10 MH-140-BOTTOM 0.125	7.60e3	65.0	NO
6	6 13C6-PFDA	1701279-10 MH-140-BOTTOM 0.125	3.24e4	65.7	NO
7	7 13C7-PFUnA	1701279-10 MH-140-BOTTOM 0.125	3.49e4	58.1	NO

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Name: 170926M1_45, Date: 26-Sep-2017, Time: 16:49:38, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-11 MH-140N-20170918 0.125	3.75e4	57.5	NO
2	2 13C3-PFHxS	1701279-11 MH-140N-20170918 0.125	6.07e3	60.6	NO
3	3 13C8-PFOA	1701279-11 MH-140N-20170918 0.125	3.02e4	65.9	NO
4	4 13C9-PFNA	1701279-11 MH-140N-20170918 0.125	3.76e4	61.0	NO
5	5 13C4-PFOS	1701279-11 MH-140N-20170918 0.125	7.53e3	64.4	NO
6	6 13C6-PFDA	1701279-11 MH-140N-20170918 0.125	2.86e4	58.0	NO
7	7 13C7-PFUnA	1701279-11 MH-140N-20170918 0.125	2.83e4	47.0	YES

Name: 170926M1_46, Date: 26-Sep-2017, Time: 17:00:16, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-12 INTERCEPTOR SUMP-20...	3.38e4	51.8	NO
2	2 13C3-PFHxS	1701279-12 INTERCEPTOR SUMP-20...	6.29e3	62.8	NO
3	3 13C8-PFOA	1701279-12 INTERCEPTOR SUMP-20...	2.44e4	53.1	NO
4	4 13C9-PFNA	1701279-12 INTERCEPTOR SUMP-20...	3.29e4	53.3	NO
5	5 13C4-PFOS	1701279-12 INTERCEPTOR SUMP-20...	7.40e3	63.3	NO
6	6 13C6-PFDA	1701279-12 INTERCEPTOR SUMP-20...	2.64e4	53.5	NO
7	7 13C7-PFUnA	1701279-12 INTERCEPTOR SUMP-20...	2.94e4	48.9	YES

Name: 170926M1_47, Date: 26-Sep-2017, Time: 17:10:55, ID: 1701279-13 DUP03-20170918 0.125, Description: DUP03-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-13 DUP03-20170918 0.125	4.14e4	63.5	NO
2	2 13C3-PFHxS	1701279-13 DUP03-20170918 0.125	6.82e3	68.1	NO
3	3 13C8-PFOA	1701279-13 DUP03-20170918 0.125	3.05e4	66.5	NO
4	4 13C9-PFNA	1701279-13 DUP03-20170918 0.125	3.98e4	64.6	NO
5	5 13C4-PFOS	1701279-13 DUP03-20170918 0.125	7.24e3	61.9	NO
6	6 13C6-PFDA	1701279-13 DUP03-20170918 0.125	3.38e4	68.6	NO
7	7 13C7-PFUnA	1701279-13 DUP03-20170918 0.125	3.22e4	53.6	NO

Name: 170926M1_48, Date: 26-Sep-2017, Time: 17:21:33, ID: 1701279-14 ROOF DRAIN-20170918 0.125, Description: ROOF DRAIN-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-14 ROOF DRAIN-20170918 0....	4.23e4	64.8	NO
2	2 13C3-PFHxS	1701279-14 ROOF DRAIN-20170918 0....	6.39e3	63.9	NO
3	3 13C8-PFOA	1701279-14 ROOF DRAIN-20170918 0....	3.28e4	71.4	NO
4	4 13C9-PFNA	1701279-14 ROOF DRAIN-20170918 0....	4.30e4	69.8	NO
5	5 13C4-PFOS	1701279-14 ROOF DRAIN-20170918 0....	6.95e3	59.5	NO
6	6 13C6-PFDA	1701279-14 ROOF DRAIN-20170918 0....	3.37e4	68.4	NO
7	7 13C7-PFUnA	1701279-14 ROOF DRAIN-20170918 0....	3.21e4	53.4	NO

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Name: 170926M1_49, Date: 26-Sep-2017, Time: 17:32:11, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-15 SPRING-20170918 0.125	3.79e4	58.2	NO
2	2 13C3-PFHxS	1701279-15 SPRING-20170918 0.125	6.45e3	64.4	NO
3	3 13C8-PFOA	1701279-15 SPRING-20170918 0.125	2.83e4	61.5	NO
4	4 13C9-PFNA	1701279-15 SPRING-20170918 0.125	3.64e4	59.1	NO
5	5 13C4-PFOS	1701279-15 SPRING-20170918 0.125	7.53e3	64.5	NO
6	6 13C6-PFDA	1701279-15 SPRING-20170918 0.125	2.48e4	50.4	NO
7	7 13C7-PFUnA	1701279-15 SPRING-20170918 0.125	2.86e4	47.6	YES

Name: 170926M1_50, Date: 26-Sep-2017, Time: 17:42:58, ID: 1701279-16 FRB01-20170918 0.125, Description: FRB01-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701279-16 FRB01-20170918 0.125	4.39e4	67.3	NO
2	2 13C3-PFHxS	1701279-16 FRB01-20170918 0.125	6.99e3	69.8	NO
3	3 13C8-PFOA	1701279-16 FRB01-20170918 0.125	3.31e4	72.0	NO
4	4 13C9-PFNA	1701279-16 FRB01-20170918 0.125	3.50e4	56.8	NO
5	5 13C4-PFOS	1701279-16 FRB01-20170918 0.125	6.90e3	59.1	NO
6	6 13C6-PFDA	1701279-16 FRB01-20170918 0.125	3.55e4	72.0	NO
7	7 13C7-PFUnA	1701279-16 FRB01-20170918 0.125	3.85e4	64.0	NO

Name: 170926M1_51, Date: 26-Sep-2017, Time: 17:53:36, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 17I2509, Description: PFC CS3 17I2509

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170926M1-12 PFC CS3 17I2509	6.85e4	105.1	NO
2	2 13C3-PFHxS	ST170926M1-12 PFC CS3 17I2509	9.16e3	91.5	NO
3	3 13C8-PFOA	ST170926M1-12 PFC CS3 17I2509	5.04e4	109.8	NO
4	4 13C9-PFNA	ST170926M1-12 PFC CS3 17I2509	5.87e4	95.3	NO
5	5 13C4-PFOS	ST170926M1-12 PFC CS3 17I2509	1.18e4	101.4	NO
6	6 13C6-PFDA	ST170926M1-12 PFC CS3 17I2509	5.80e4	117.6	NO
7	7 13C7-PFUnA	ST170926M1-12 PFC CS3 17I2509	5.04e4	83.9	NO

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#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_54, Date: 26-Sep-2017, Time: 18:25:43, ID: B7I0111-BS1 OPR 1, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0111-BS1 OPR 1	4.39e4	67.3	NO
2	2 13C3-PFHxS	B7I0111-BS1 OPR 1	6.83e3	68.3	NO
3	3 13C8-PFOA	B7I0111-BS1 OPR 1	3.12e4	68.0	NO
4	4 13C9-PFNA	B7I0111-BS1 OPR 1	3.54e4	57.4	NO
5	5 13C4-PFOS	B7I0111-BS1 OPR 1	6.61e3	56.6	NO
6	6 13C6-PFDA	B7I0111-BS1 OPR 1	2.35e4	47.8	YES
7	7 13C7-PFUnA	B7I0111-BS1 OPR 1	1.28e4	21.3	YES

Name: 170926M1_55, Date: 26-Sep-2017, Time: 18:36:27, ID: B7I0127-BS1 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0127-BS1 OPR 0.125	4.77e4	73.2	NO
2	2 13C3-PFHxS	B7I0127-BS1 OPR 0.125	7.74e3	77.3	NO
3	3 13C8-PFOA	B7I0127-BS1 OPR 0.125	3.64e4	79.3	NO
4	4 13C9-PFNA	B7I0127-BS1 OPR 0.125	4.06e4	65.9	NO
5	5 13C4-PFOS	B7I0127-BS1 OPR 0.125	5.93e3	50.8	NO
6	6 13C6-PFDA	B7I0127-BS1 OPR 0.125	2.30e4	46.6	YES
7	7 13C7-PFUnA	B7I0127-BS1 OPR 0.125	7.99e3	13.3	YES

Name: 170926M1_56, Date: 26-Sep-2017, Time: 18:47:14, ID: B7I0128-BS1 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0128-BS1 OPR 0.125	5.36e4	82.2	NO
2	2 13C3-PFHxS	B7I0128-BS1 OPR 0.125	8.33e3	83.2	NO
3	3 13C8-PFOA	B7I0128-BS1 OPR 0.125	4.19e4	91.3	NO
4	4 13C9-PFNA	B7I0128-BS1 OPR 0.125	4.70e4	76.2	NO
5	5 13C4-PFOS	B7I0128-BS1 OPR 0.125	6.71e3	57.4	NO
6	6 13C6-PFDA	B7I0128-BS1 OPR 0.125	1.99e4	40.5	YES
7	7 13C7-PFUnA	B7I0128-BS1 OPR 0.125	8.15e3	13.6	YES

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Name: 170926M1_57, Date: 26-Sep-2017, Time: 18:58:00, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_58, Date: 26-Sep-2017, Time: 19:08:39, ID: B7I0111-BLK1 Method Blank 1, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0111-BLK1 Method Blank 1	5.18e4	79.4	NO
2	2 13C3-PFHxS	B7I0111-BLK1 Method Blank 1	7.90e3	78.9	NO
3	3 13C8-PFOA	B7I0111-BLK1 Method Blank 1	3.41e4	74.3	NO
4	4 13C9-PFNA	B7I0111-BLK1 Method Blank 1	4.04e4	65.5	NO
5	5 13C4-PFOS	B7I0111-BLK1 Method Blank 1	8.65e3	74.1	NO
6	6 13C6-PFDA	B7I0111-BLK1 Method Blank 1	2.76e4	55.9	NO
7	7 13C7-PFUnA	B7I0111-BLK1 Method Blank 1	1.50e4	25.0	YES

Name: 170926M1_59, Date: 26-Sep-2017, Time: 19:19:25, ID: B7I0124-BLK1 Method Blank 1, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0124-BLK1 Method Blank 1	3.09e4	47.5	YES
2	2 13C3-PFHxS	B7I0124-BLK1 Method Blank 1	4.91e3	49.0	YES
3	3 13C8-PFOA	B7I0124-BLK1 Method Blank 1	2.39e4	52.0	NO
4	4 13C9-PFNA	B7I0124-BLK1 Method Blank 1	2.90e4	47.1	YES
5	5 13C4-PFOS	B7I0124-BLK1 Method Blank 1	6.48e3	55.5	NO
6	6 13C6-PFDA	B7I0124-BLK1 Method Blank 1	2.65e4	53.8	NO
7	7 13C7-PFUnA	B7I0124-BLK1 Method Blank 1	2.59e4	43.1	YES

Name: 170926M1_60, Date: 26-Sep-2017, Time: 19:30:03, ID: B7I0127-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0127-BLK1 Method Blank 0.125	4.93e4	75.7	NO
2	2 13C3-PFHxS	B7I0127-BLK1 Method Blank 0.125	8.15e3	81.4	NO
3	3 13C8-PFOA	B7I0127-BLK1 Method Blank 0.125	3.49e4	76.0	NO
4	4 13C9-PFNA	B7I0127-BLK1 Method Blank 0.125	4.19e4	68.1	NO
5	5 13C4-PFOS	B7I0127-BLK1 Method Blank 0.125	7.47e3	64.0	NO
6	6 13C6-PFDA	B7I0127-BLK1 Method Blank 0.125	3.06e4	62.2	NO
7	7 13C7-PFUnA	B7I0127-BLK1 Method Blank 0.125	1.47e4	24.5	YES

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Name: 170926M1_61, Date: 26-Sep-2017, Time: 19:40:50, ID: B7I0128-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0128-BLK1 Method Blank 0.125	5.23e4	80.3	NO
2	2	13C3-PFHxS	B7I0128-BLK1 Method Blank 0.125	7.87e3	78.6	NO
3	3	13C8-PFOA	B7I0128-BLK1 Method Blank 0.125	3.77e4	82.0	NO
4	4	13C9-PFNA	B7I0128-BLK1 Method Blank 0.125	4.53e4	73.5	NO
5	5	13C4-PFOS	B7I0128-BLK1 Method Blank 0.125	6.15e3	52.7	NO
6	6	13C6-PFDA	B7I0128-BLK1 Method Blank 0.125	2.81e4	57.0	NO
7	7	13C7-PFUnA	B7I0128-BLK1 Method Blank 0.125	1.73e4	28.7	YES

Name: 170926M1_62, Date: 26-Sep-2017, Time: 19:51:36, ID: B7I0127-MS1 Matrix Spike 0.1161, Description: Matrix Spike

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0127-MS1 Matrix Spike 0.1161	4.91e4	75.4	NO
2	2	13C3-PFHxS	B7I0127-MS1 Matrix Spike 0.1161	7.44e3	74.3	NO
3	3	13C8-PFOA	B7I0127-MS1 Matrix Spike 0.1161	3.50e4	76.2	NO
4	4	13C9-PFNA	B7I0127-MS1 Matrix Spike 0.1161	3.08e4	50.0	NO
5	5	13C4-PFOS	B7I0127-MS1 Matrix Spike 0.1161	4.74e3	40.5	YES
6	6	13C6-PFDA	B7I0127-MS1 Matrix Spike 0.1161	1.42e4	28.8	YES
7	7	13C7-PFUnA	B7I0127-MS1 Matrix Spike 0.1161	9.97e3	16.6	YES

Name: 170926M1_63, Date: 26-Sep-2017, Time: 20:02:24, ID: B7I0127-MSD1 Matrix Spike Dup 0.11565, Description: Matrix Spike Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0127-MSD1 Matrix Spike Dup 0.11565	4.45e4	68.2	NO
2	2	13C3-PFHxS	B7I0127-MSD1 Matrix Spike Dup 0.11565	8.09e3	80.8	NO
3	3	13C8-PFOA	B7I0127-MSD1 Matrix Spike Dup 0.11565	3.41e4	74.3	NO
4	4	13C9-PFNA	B7I0127-MSD1 Matrix Spike Dup 0.11565	3.56e4	57.8	NO
5	5	13C4-PFOS	B7I0127-MSD1 Matrix Spike Dup 0.11565	5.21e3	44.6	YES
6	6	13C6-PFDA	B7I0127-MSD1 Matrix Spike Dup 0.11565	1.73e4	35.1	YES
7	7	13C7-PFUnA	B7I0127-MSD1 Matrix Spike Dup 0.11565	1.31e4	21.8	YES

Name: 170926M1_64, Date: 26-Sep-2017, Time: 20:13:10, ID: B7I0128-MS1 Matrix Spike 0.125, Description: Matrix Spike

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	B7I0128-MS1 Matrix Spike 0.125	5.05e4	77.5	NO
2	2	13C3-PFHxS	B7I0128-MS1 Matrix Spike 0.125	7.91e3	79.0	NO
3	3	13C8-PFOA	B7I0128-MS1 Matrix Spike 0.125	3.57e4	77.9	NO
4	4	13C9-PFNA	B7I0128-MS1 Matrix Spike 0.125	4.36e4	70.7	NO
5	5	13C4-PFOS	B7I0128-MS1 Matrix Spike 0.125	5.84e3	49.9	NO
6	6	13C6-PFDA	B7I0128-MS1 Matrix Spike 0.125	2.06e4	41.7	YES
7	7	13C7-PFUnA	B7I0128-MS1 Matrix Spike 0.125	1.04e4	17.3	YES

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Name: 170926M1_65, Date: 26-Sep-2017, Time: 20:23:56, ID: B7I0128-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0128-MSD1 Matrix Spike Dup 0.125	5.16e4	79.1	NO
2	2 13C3-PFHxS	B7I0128-MSD1 Matrix Spike Dup 0.125	8.12e3	81.1	NO
3	3 13C8-PFOA	B7I0128-MSD1 Matrix Spike Dup 0.125	3.59e4	78.1	NO
4	4 13C9-PFNA	B7I0128-MSD1 Matrix Spike Dup 0.125	3.77e4	61.1	NO
5	5 13C4-PFOS	B7I0128-MSD1 Matrix Spike Dup 0.125	6.25e3	53.5	NO
6	6 13C6-PFDA	B7I0128-MSD1 Matrix Spike Dup 0.125	2.28e4	46.2	YES
7	7 13C7-PFUnA	B7I0128-MSD1 Matrix Spike Dup 0.125	1.35e4	22.5	YES

Name: 170926M1_66, Date: 26-Sep-2017, Time: 20:34:34, ID: 1701187-01 GB-1 1, Description: GB-1

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701187-01 GB-1 1	4.09e4	62.7	NO
2	2 13C3-PFHxS	1701187-01 GB-1 1	6.80e3	67.9	NO
3	3 13C8-PFOA	1701187-01 GB-1 1	2.74e4	59.7	NO
4	4 13C9-PFNA	1701187-01 GB-1 1	2.58e4	41.9	YES
5	5 13C4-PFOS	1701187-01 GB-1 1	3.93e3	33.6	YES
6	6 13C6-PFDA	1701187-01 GB-1 1	1.47e4	29.8	YES
7	7 13C7-PFUnA	1701187-01 GB-1 1	1.24e4	20.6	YES

Name: 170926M1_67, Date: 26-Sep-2017, Time: 20:45:13, ID: B7I0124-BS1 OPR 1, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0124-BS1 OPR 1	3.36e4	51.5	NO
2	2 13C3-PFHxS	B7I0124-BS1 OPR 1	5.39e3	53.9	NO
3	3 13C8-PFOA	B7I0124-BS1 OPR 1	2.37e4	51.6	NO
4	4 13C9-PFNA	B7I0124-BS1 OPR 1	3.27e4	53.1	NO
5	5 13C4-PFOS	B7I0124-BS1 OPR 1	6.48e3	55.5	NO
6	6 13C6-PFDA	B7I0124-BS1 OPR 1	2.52e4	51.1	NO
7	7 13C7-PFUnA	B7I0124-BS1 OPR 1	2.71e4	45.1	YES

Name: 170926M1_68, Date: 26-Sep-2017, Time: 20:55:51, ID: B7I0124-BS2 OPR 1, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0124-BS2 OPR 1	3.53e4	54.1	NO
2	2 13C3-PFHxS	B7I0124-BS2 OPR 1	5.41e3	54.1	NO
3	3 13C8-PFOA	B7I0124-BS2 OPR 1	2.61e4	56.9	NO
4	4 13C9-PFNA	B7I0124-BS2 OPR 1	3.18e4	51.6	NO
5	5 13C4-PFOS	B7I0124-BS2 OPR 1	5.67e3	48.6	YES
6	6 13C6-PFDA	B7I0124-BS2 OPR 1	2.51e4	51.0	NO
7	7 13C7-PFUnA	B7I0124-BS2 OPR 1	2.75e4	45.7	YES

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Name: 170926M1_69, Date: 26-Sep-2017, Time: 21:06:30, ID: B7I0124-BS3 OPR 1, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0124-BS3 OPR 1	3.57e4	54.8	NO
2	2 13C3-PFHxS	B7I0124-BS3 OPR 1	6.16e3	61.5	NO
3	3 13C8-PFOA	B7I0124-BS3 OPR 1	2.54e4	55.3	NO
4	4 13C9-PFNA	B7I0124-BS3 OPR 1	2.85e4	46.2	YES
5	5 13C4-PFOS	B7I0124-BS3 OPR 1	6.72e3	57.5	NO
6	6 13C6-PFDA	B7I0124-BS3 OPR 1	2.96e4	60.0	NO
7	7 13C7-PFUnA	B7I0124-BS3 OPR 1	2.86e4	47.6	YES

Name: 170926M1_70, Date: 26-Sep-2017, Time: 21:17:08, ID: B7I0124-BS4 OPR 1, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	B7I0124-BS4 OPR 1	4.00e4	61.4	NO
2	2 13C3-PFHxS	B7I0124-BS4 OPR 1	6.48e3	64.8	NO
3	3 13C8-PFOA	B7I0124-BS4 OPR 1	2.64e4	57.4	NO
4	4 13C9-PFNA	B7I0124-BS4 OPR 1	3.08e4	49.9	NO
5	5 13C4-PFOS	B7I0124-BS4 OPR 1	6.22e3	53.2	NO
6	6 13C6-PFDA	B7I0124-BS4 OPR 1	2.49e4	50.6	NO
7	7 13C7-PFUnA	B7I0124-BS4 OPR 1	3.22e4	53.5	NO

Name: 170926M1_71, Date: 26-Sep-2017, Time: 21:27:47, ID: 1701265-35 GW-MW-8 0.11389, Description: GW-MW-8

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-35 GW-MW-8 0.11389	4.89e4	75.0	NO
2	2 13C3-PFHxS	1701265-35 GW-MW-8 0.11389	7.67e3	76.6	NO
3	3 13C8-PFOA	1701265-35 GW-MW-8 0.11389	3.53e4	77.0	NO
4	4 13C9-PFNA	1701265-35 GW-MW-8 0.11389	3.28e4	53.2	NO
5	5 13C4-PFOS	1701265-35 GW-MW-8 0.11389	4.33e3	37.1	YES
6	6 13C6-PFDA	1701265-35 GW-MW-8 0.11389	1.70e4	34.4	YES
7	7 13C7-PFUnA	1701265-35 GW-MW-8 0.11389	1.07e4	17.8	YES

Name: 170926M1_72, Date: 26-Sep-2017, Time: 21:38:33, ID: 1701265-36 DW-R-21SMW-DUP 0.11685, Description: DW-R-21SMW-DUP

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-36 DW-R-21SMW-DUP 0.11685	4.71e4	72.3	NO
2	2 13C3-PFHxS	1701265-36 DW-R-21SMW-DUP 0.11685	7.00e3	69.9	NO
3	3 13C8-PFOA	1701265-36 DW-R-21SMW-DUP 0.11685	3.45e4	75.2	NO
4	4 13C9-PFNA	1701265-36 DW-R-21SMW-DUP 0.11685	3.87e4	62.8	NO
5	5 13C4-PFOS	1701265-36 DW-R-21SMW-DUP 0.11685	5.51e3	47.2	YES
6	6 13C6-PFDA	1701265-36 DW-R-21SMW-DUP 0.11685	2.50e4	50.8	NO
7	7 13C7-PFUnA	1701265-36 DW-R-21SMW-DUP 0.11685	8.20e3	13.7	YES

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Name: 170926M1_73, Date: 26-Sep-2017, Time: 21:49:12, ID: 1701265-37 DW-R-415BHR 0.11532, Description: DW-R-415BHR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-37 DW-R-415BHR 0.11532	4.73e4	72.6	NO
2	2 13C3-PFHxS	1701265-37 DW-R-415BHR 0.11532	7.94e3	79.3	NO
3	3 13C8-PFOA	1701265-37 DW-R-415BHR 0.11532	3.20e4	69.7	NO
4	4 13C9-PFNA	1701265-37 DW-R-415BHR 0.11532	3.92e4	63.6	NO
5	5 13C4-PFOS	1701265-37 DW-R-415BHR 0.11532	4.77e3	40.8	YES
6	6 13C6-PFDA	1701265-37 DW-R-415BHR 0.11532	1.62e4	32.8	YES
7	7 13C7-PFUnA	1701265-37 DW-R-415BHR 0.11532	8.02e3	13.4	YES

Name: 170926M1_74, Date: 26-Sep-2017, Time: 21:59:58, ID: 1701265-38 GW-EB-WATER LEVEL 0.11063, Description: GW-EB-WATER LEVEL

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-38 GW-EB-WATER LEVEL 0....	4.90e4	75.2	NO
2	2 13C3-PFHxS	1701265-38 GW-EB-WATER LEVEL 0....	7.75e3	77.4	NO
3	3 13C8-PFOA	1701265-38 GW-EB-WATER LEVEL 0....	3.33e4	72.6	NO
4	4 13C9-PFNA	1701265-38 GW-EB-WATER LEVEL 0....	3.98e4	64.6	NO
5	5 13C4-PFOS	1701265-38 GW-EB-WATER LEVEL 0....	5.38e3	46.0	YES
6	6 13C6-PFDA	1701265-38 GW-EB-WATER LEVEL 0....	1.84e4	37.3	YES
7	7 13C7-PFUnA	1701265-38 GW-EB-WATER LEVEL 0....	4.60e3	7.6	YES

Name: 170926M1_75, Date: 26-Sep-2017, Time: 22:10:44, ID: 1701265-39 GW-FPC-5B 0.10809, Description: GW-FPC-5B

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-39 GW-FPC-5B 0.10809	4.88e4	74.9	NO
2	2 13C3-PFHxS	1701265-39 GW-FPC-5B 0.10809	7.41e3	74.0	NO
3	3 13C8-PFOA	1701265-39 GW-FPC-5B 0.10809	3.36e4	73.1	NO
4	4 13C9-PFNA	1701265-39 GW-FPC-5B 0.10809	3.44e4	55.8	NO
5	5 13C4-PFOS	1701265-39 GW-FPC-5B 0.10809	4.58e3	39.2	YES
6	6 13C6-PFDA	1701265-39 GW-FPC-5B 0.10809	1.11e4	22.4	YES
7	7 13C7-PFUnA	1701265-39 GW-FPC-5B 0.10809	6.32e3	10.5	YES

Name: 170926M1_76, Date: 26-Sep-2017, Time: 22:21:23, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

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Name: 170926M1_77, Date: 26-Sep-2017, Time: 22:32:09, ID: ST170926M1-13 PFC CS0 17I2506, Description: PFC CS0 17I2506

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170926M1-13 PFC CS0 17I2506	6.90e4	105.9	NO
2	2 13C3-PFHxS	ST170926M1-13 PFC CS0 17I2506	9.34e3	93.3	NO
3	3 13C8-PFOA	ST170926M1-13 PFC CS0 17I2506	4.55e4	99.2	NO
4	4 13C9-PFNA	ST170926M1-13 PFC CS0 17I2506	5.70e4	92.5	NO
5	5 13C4-PFOS	ST170926M1-13 PFC CS0 17I2506	1.17e4	100.2	NO
6	6 13C6-PFDA	ST170926M1-13 PFC CS0 17I2506	4.38e4	88.8	NO
7	7 13C7-PFUnA	ST170926M1-13 PFC CS0 17I2506	5.43e4	90.4	NO

Name: 170926M1_78, Date: 26-Sep-2017, Time: 22:42:56, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_79, Date: 26-Sep-2017, Time: 22:53:34, ID: 1701265-40 FB-DI-WATER 0.11434, Description: FB-DI-WATER

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-40 FB-DI-WATER 0.11434	4.92e4	75.6	NO
2	2 13C3-PFHxS	1701265-40 FB-DI-WATER 0.11434	7.22e3	72.1	NO
3	3 13C8-PFOA	1701265-40 FB-DI-WATER 0.11434	3.26e4	71.0	NO
4	4 13C9-PFNA	1701265-40 FB-DI-WATER 0.11434	3.60e4	58.4	NO
5	5 13C4-PFOS	1701265-40 FB-DI-WATER 0.11434	6.38e3	54.6	NO
6	6 13C6-PFDA	1701265-40 FB-DI-WATER 0.11434	2.42e4	49.0	YES
7	7 13C7-PFUnA	1701265-40 FB-DI-WATER 0.11434	8.96e3	14.9	YES

Name: 170926M1_80, Date: 26-Sep-2017, Time: 23:04:20, ID: 1701265-41 DW-EB-APPARTUS 0.11679, Description: DW-EB-APPARTUS

#	Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-41 DW-EB-APPARTUS 0.11679	4.07e4	62.4	NO
2	2 13C3-PFHxS	1701265-41 DW-EB-APPARTUS 0.11679	6.00e3	59.9	NO
3	3 13C8-PFOA	1701265-41 DW-EB-APPARTUS 0.11679	2.99e4	65.2	NO
4	4 13C9-PFNA	1701265-41 DW-EB-APPARTUS 0.11679	3.17e4	51.4	NO
5	5 13C4-PFOS	1701265-41 DW-EB-APPARTUS 0.11679	5.48e3	46.9	YES
6	6 13C6-PFDA	1701265-41 DW-EB-APPARTUS 0.11679	1.65e4	33.5	YES
7	7 13C7-PFUnA	1701265-41 DW-EB-APPARTUS 0.11679	7.16e3	11.9	YES

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Name: 170926M1_81, Date: 26-Sep-2017, Time: 23:14:59, ID: 1701265-42 DW-R-9BFL 0.11363, Description: DW-R-9BFL

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-42 DW-R-9BFL 0.11363	4.67e4	71.6	NO
2	2 13C3-PFHxS	1701265-42 DW-R-9BFL 0.11363	9.29e3	92.8	NO
3	3 13C8-PFOA	1701265-42 DW-R-9BFL 0.11363	3.58e4	78.1	NO
4	4 13C9-PFNA	1701265-42 DW-R-9BFL 0.11363	3.66e4	59.5	NO
5	5 13C4-PFOS	1701265-42 DW-R-9BFL 0.11363	6.08e3	52.1	NO
6	6 13C6-PFDA	1701265-42 DW-R-9BFL 0.11363	2.27e4	46.1	YES
7	7 13C7-PFUnA	1701265-42 DW-R-9BFL 0.11363	9.69e3	16.1	YES

Name: 170926M1_82, Date: 26-Sep-2017, Time: 23:25:55, ID: 1701265-43 GW-AE-3B 0.11207, Description: GW-AE-3B

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-43 GW-AE-3B 0.11207	4.89e4	75.1	NO
2	2 13C3-PFHxS	1701265-43 GW-AE-3B 0.11207	8.02e3	80.1	NO
3	3 13C8-PFOA	1701265-43 GW-AE-3B 0.11207	3.14e4	68.4	NO
4	4 13C9-PFNA	1701265-43 GW-AE-3B 0.11207	3.56e4	57.7	NO
5	5 13C4-PFOS	1701265-43 GW-AE-3B 0.11207	4.56e3	39.0	YES
6	6 13C6-PFDA	1701265-43 GW-AE-3B 0.11207	1.74e4	35.3	YES
7	7 13C7-PFUnA	1701265-43 GW-AE-3B 0.11207	1.23e4	20.4	YES

Name: 170926M1_83, Date: 26-Sep-2017, Time: 23:36:43, ID: 1701265-49 DW-R-25FW 0.11237, Description: DW-R-25FW

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-49 DW-R-25FW 0.11237	5.28e4	81.0	NO
2	2 13C3-PFHxS	1701265-49 DW-R-25FW 0.11237	9.66e3	96.5	NO
3	3 13C8-PFOA	1701265-49 DW-R-25FW 0.11237	3.70e4	80.6	NO
4	4 13C9-PFNA	1701265-49 DW-R-25FW 0.11237	4.64e4	75.3	NO
5	5 13C4-PFOS	1701265-49 DW-R-25FW 0.11237	7.87e3	67.4	NO
6	6 13C6-PFDA	1701265-49 DW-R-25FW 0.11237	2.68e4	54.4	NO
7	7 13C7-PFUnA	1701265-49 DW-R-25FW 0.11237	1.65e4	27.5	YES

Name: 170926M1_84, Date: 26-Sep-2017, Time: 23:47:30, ID: 1701265-50 GW-FPC-3A 0.11653, Description: GW-FPC-3A

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-50 GW-FPC-3A 0.11653	4.62e4	70.9	NO
2	2 13C3-PFHxS	1701265-50 GW-FPC-3A 0.11653	7.02e3	70.2	NO
3	3 13C8-PFOA	1701265-50 GW-FPC-3A 0.11653	2.80e4	61.0	NO
4	4 13C9-PFNA	1701265-50 GW-FPC-3A 0.11653	3.16e4	51.2	NO
5	5 13C4-PFOS	1701265-50 GW-FPC-3A 0.11653	5.44e3	46.5	YES
6	6 13C6-PFDA	1701265-50 GW-FPC-3A 0.11653	1.88e4	38.1	YES
7	7 13C7-PFUnA	1701265-50 GW-FPC-3A 0.11653	1.33e4	22.2	YES

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Name: 170926M1_85, Date: 26-Sep-2017, Time: 23:58:08, ID: 1701265-51 GW-FPC-11B 0.11147, Description: GW-FPC-11B

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-51 GW-FPC-11B 0.11147	4.80e4	73.6	NO
2	2 13C3-PFHxS	1701265-51 GW-FPC-11B 0.11147	7.55e3	75.4	NO
3	3 13C8-PFOA	1701265-51 GW-FPC-11B 0.11147	3.43e4	74.6	NO
4	4 13C9-PFNA	1701265-51 GW-FPC-11B 0.11147	3.25e4	52.8	NO
5	5 13C4-PFOS	1701265-51 GW-FPC-11B 0.11147	4.98e3	42.6	YES
6	6 13C6-PFDA	1701265-51 GW-FPC-11B 0.11147	1.43e4	28.9	YES
7	7 13C7-PFUnA	1701265-51 GW-FPC-11B 0.11147	1.05e4	17.4	YES

Name: 170926M1_86, Date: 27-Sep-2017, Time: 00:08:47, ID: 1701265-52 GW-GZ-105 0.11455, Description: GW-GZ-105

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-52 GW-GZ-105 0.11455	5.11e4	78.4	NO
2	2 13C3-PFHxS	1701265-52 GW-GZ-105 0.11455	7.49e3	74.8	NO
3	3 13C8-PFOA	1701265-52 GW-GZ-105 0.11455	3.37e4	73.4	NO
4	4 13C9-PFNA	1701265-52 GW-GZ-105 0.11455	2.97e4	48.2	YES
5	5 13C4-PFOS	1701265-52 GW-GZ-105 0.11455	3.87e3	33.1	YES
6	6 13C6-PFDA	1701265-52 GW-GZ-105 0.11455	1.21e4	24.5	YES
7	7 13C7-PFUnA	1701265-52 GW-GZ-105 0.11455	6.50e3	10.8	YES

Name: 170926M1_87, Date: 27-Sep-2017, Time: 00:19:25, ID: 1701265-53 GW-GZ-105-DUP 0.11181, Description: GW-GZ-105-DUP

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-53 GW-GZ-105-DUP 0.11181	4.53e4	69.5	NO
2	2 13C3-PFHxS	1701265-53 GW-GZ-105-DUP 0.11181	6.80e3	67.9	NO
3	3 13C8-PFOA	1701265-53 GW-GZ-105-DUP 0.11181	3.10e4	67.5	NO
4	4 13C9-PFNA	1701265-53 GW-GZ-105-DUP 0.11181	2.66e4	43.1	YES
5	5 13C4-PFOS	1701265-53 GW-GZ-105-DUP 0.11181	3.52e3	30.1	YES
6	6 13C6-PFDA	1701265-53 GW-GZ-105-DUP 0.11181	1.30e4	26.4	YES
7	7 13C7-PFUnA	1701265-53 GW-GZ-105-DUP 0.11181	6.20e3	10.3	YES

Name: 170926M1_88, Date: 27-Sep-2017, Time: 00:30:03, ID: 1701265-54 GW-FPC-3C 0.11716, Description: GW-FPC-3C

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-54 GW-FPC-3C 0.11716	5.45e4	83.6	NO
2	2 13C3-PFHxS	1701265-54 GW-FPC-3C 0.11716	7.54e3	75.3	NO
3	3 13C8-PFOA	1701265-54 GW-FPC-3C 0.11716	3.89e4	84.8	NO
4	4 13C9-PFNA	1701265-54 GW-FPC-3C 0.11716	4.87e4	79.0	NO
5	5 13C4-PFOS	1701265-54 GW-FPC-3C 0.11716	6.08e3	52.1	NO
6	6 13C6-PFDA	1701265-54 GW-FPC-3C 0.11716	2.05e4	41.6	YES
7	7 13C7-PFUnA	1701265-54 GW-FPC-3C 0.11716	8.51e3	14.2	YES

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Name: 170926M1_89, Date: 27-Sep-2017, Time: 00:40:48, ID: 1701265-55 GW-FPC-11A 0.10712, Description: GW-FPC-11A

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-55 GW-FPC-11A 0.10712	4.89e4	75.1	NO
2	2 13C3-PFHxS	1701265-55 GW-FPC-11A 0.10712	7.45e3	74.4	NO
3	3 13C8-PFOA	1701265-55 GW-FPC-11A 0.10712	3.56e4	77.5	NO
4	4 13C9-PFNA	1701265-55 GW-FPC-11A 0.10712	3.40e4	55.1	NO
5	5 13C4-PFOS	1701265-55 GW-FPC-11A 0.10712	4.48e3	38.3	YES
6	6 13C6-PFDA	1701265-55 GW-FPC-11A 0.10712	1.30e4	26.4	YES
7	7 13C7-PFUnA	1701265-55 GW-FPC-11A 0.10712	7.55e3	12.6	YES

Name: 170926M1_90, Date: 27-Sep-2017, Time: 00:51:43, ID: 1701265-56 GW-FPC-3B 0.11821, Description: GW-FPC-3B

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-56 GW-FPC-3B 0.11821	4.67e4	71.7	NO
2	2 13C3-PFHxS	1701265-56 GW-FPC-3B 0.11821	7.05e3	70.5	NO
3	3 13C8-PFOA	1701265-56 GW-FPC-3B 0.11821	3.45e4	75.1	NO
4	4 13C9-PFNA	1701265-56 GW-FPC-3B 0.11821	3.71e4	60.3	NO
5	5 13C4-PFOS	1701265-56 GW-FPC-3B 0.11821	5.00e3	42.8	YES
6	6 13C6-PFDA	1701265-56 GW-FPC-3B 0.11821	1.93e4	39.2	YES
7	7 13C7-PFUnA	1701265-56 GW-FPC-3B 0.11821	1.15e4	19.2	YES

Name: 170926M1_91, Date: 27-Sep-2017, Time: 01:02:33, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_92, Date: 27-Sep-2017, Time: 01:13:11, ID: ST170926M1-14 PFC CS3 1712610, Description: PFC CS3 1712610

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170926M1-14 PFC CS3 1712610	5.31e4	81.4	NO
2	2 13C3-PFHxS	ST170926M1-14 PFC CS3 1712610	8.24e3	82.3	NO
3	3 13C8-PFOA	ST170926M1-14 PFC CS3 1712610	4.14e4	90.2	NO
4	4 13C9-PFNA	ST170926M1-14 PFC CS3 1712610	4.93e4	79.9	NO
5	5 13C4-PFOS	ST170926M1-14 PFC CS3 1712610	1.01e4	86.7	NO
6	6 13C6-PFDA	ST170926M1-14 PFC CS3 1712610	4.81e4	97.5	NO
7	7 13C7-PFUnA	ST170926M1-14 PFC CS3 1712610	5.07e4	84.4	NO

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Name: 170926M1_93, Date: 27-Sep-2017, Time: 01:23:58, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_94, Date: 27-Sep-2017, Time: 01:34:44, ID: 1701265-57 DW-R-178ALR 0.1168, Description: DW-R-178ALR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-57 DW-R-178ALR 0.1168	4.49e4	68.9	NO
2	2 13C3-PFHxS	1701265-57 DW-R-178ALR 0.1168	6.79e3	67.8	NO
3	3 13C8-PFOA	1701265-57 DW-R-178ALR 0.1168	2.95e4	64.3	NO
4	4 13C9-PFNA	1701265-57 DW-R-178ALR 0.1168	3.45e4	56.0	NO
5	5 13C4-PFOS	1701265-57 DW-R-178ALR 0.1168	4.61e3	39.4	YES
6	6 13C6-PFDA	1701265-57 DW-R-178ALR 0.1168	1.68e4	34.2	YES
7	7 13C7-PFUnA	1701265-57 DW-R-178ALR 0.1168	1.36e4	22.6	YES

Name: 170926M1_95, Date: 27-Sep-2017, Time: 01:45:23, ID: 1701265-58 S-EB-SEDIMENT 0.10956, Description: S-EB-SEDIMENT

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-58 S-EB-SEDIMENT 0.10956	4.37e4	67.0	NO
2	2 13C3-PFHxS	1701265-58 S-EB-SEDIMENT 0.10956	7.61e3	76.1	NO
3	3 13C8-PFOA	1701265-58 S-EB-SEDIMENT 0.10956	2.82e4	61.4	NO
4	4 13C9-PFNA	1701265-58 S-EB-SEDIMENT 0.10956	3.35e4	54.3	NO
5	5 13C4-PFOS	1701265-58 S-EB-SEDIMENT 0.10956	3.75e3	32.1	YES
6	6 13C6-PFDA	1701265-58 S-EB-SEDIMENT 0.10956	1.59e4	32.3	YES
7	7 13C7-PFUnA	1701265-58 S-EB-SEDIMENT 0.10956	5.81e3	9.7	YES

Name: 170926M1_96, Date: 27-Sep-2017, Time: 01:56:09, ID: 1701265-59 GW-FPC-9A 0.11173, Description: GW-FPC-9A

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-59 GW-FPC-9A 0.11173	4.36e4	66.8	NO
2	2 13C3-PFHxS	1701265-59 GW-FPC-9A 0.11173	7.32e3	73.1	NO
3	3 13C8-PFOA	1701265-59 GW-FPC-9A 0.11173	3.59e4	78.2	NO
4	4 13C9-PFNA	1701265-59 GW-FPC-9A 0.11173	3.86e4	62.6	NO
5	5 13C4-PFOS	1701265-59 GW-FPC-9A 0.11173	6.16e3	52.7	NO
6	6 13C6-PFDA	1701265-59 GW-FPC-9A 0.11173	1.91e4	38.7	YES
7	7 13C7-PFUnA	1701265-59 GW-FPC-9A 0.11173	1.23e4	20.4	YES

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Name: 170926M1_97, Date: 27-Sep-2017, Time: 02:06:47, ID: 1701265-60 SW-SW-5 0.125, Description: SW-SW-5

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-60 SW-SW-5 0.125	3.95e4	60.7	NO
2	2 13C3-PFHxS	1701265-60 SW-SW-5 0.125	6.54e3	65.3	NO
3	3 13C8-PFOA	1701265-60 SW-SW-5 0.125	2.61e4	56.8	NO
4	4 13C9-PFNA	1701265-60 SW-SW-5 0.125	2.55e4	41.3	YES
5	5 13C4-PFOS	1701265-60 SW-SW-5 0.125	4.33e3	37.0	YES
6	6 13C6-PFDA	1701265-60 SW-SW-5 0.125	1.48e4	30.0	YES
7	7 13C7-PFUnA	1701265-60 SW-SW-5 0.125	9.28e3	15.4	YES

Name: 170926M1_98, Date: 27-Sep-2017, Time: 02:17:26, ID: 1701265-61 SW-SW-5-DUP 0.125, Description: SW-SW-5-DUP

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-61 SW-SW-5-DUP 0.125	3.65e4	56.1	NO
2	2 13C3-PFHxS	1701265-61 SW-SW-5-DUP 0.125	5.77e3	57.6	NO
3	3 13C8-PFOA	1701265-61 SW-SW-5-DUP 0.125	2.31e4	50.2	NO
4	4 13C9-PFNA	1701265-61 SW-SW-5-DUP 0.125	1.83e4	29.7	YES
5	5 13C4-PFOS	1701265-61 SW-SW-5-DUP 0.125	3.26e3	27.9	YES
6	6 13C6-PFDA	1701265-61 SW-SW-5-DUP 0.125	1.13e4	22.9	YES
7	7 13C7-PFUnA	1701265-61 SW-SW-5-DUP 0.125	1.15e4	19.2	YES

Name: 170926M1_99, Date: 27-Sep-2017, Time: 02:28:08, ID: 1701265-62 GW-GZ-117 0.125, Description: GW-GZ-117

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-62 GW-GZ-117 0.125	4.37e4	67.1	NO
2	2 13C3-PFHxS	1701265-62 GW-GZ-117 0.125	8.17e3	81.6	NO
3	3 13C8-PFOA	1701265-62 GW-GZ-117 0.125	3.16e4	68.8	NO
4	4 13C9-PFNA	1701265-62 GW-GZ-117 0.125	3.38e4	54.9	NO
5	5 13C4-PFOS	1701265-62 GW-GZ-117 0.125	5.99e3	51.3	NO
6	6 13C6-PFDA	1701265-62 GW-GZ-117 0.125	1.94e4	39.4	YES
7	7 13C7-PFUnA	1701265-62 GW-GZ-117 0.125	1.19e4	19.7	YES

Name: 170926M1_100, Date: 27-Sep-2017, Time: 02:39:02, ID: 1701265-63 GW-AE-2A 0.125, Description: GW-AE-2A

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-63 GW-AE-2A 0.125	3.77e4	57.8	NO
2	2 13C3-PFHxS	1701265-63 GW-AE-2A 0.125	6.72e3	67.1	NO
3	3 13C8-PFOA	1701265-63 GW-AE-2A 0.125	2.99e4	65.1	NO
4	4 13C9-PFNA	1701265-63 GW-AE-2A 0.125	3.61e4	58.6	NO
5	5 13C4-PFOS	1701265-63 GW-AE-2A 0.125	6.19e3	53.0	NO
6	6 13C6-PFDA	1701265-63 GW-AE-2A 0.125	1.95e4	39.6	YES
7	7 13C7-PFUnA	1701265-63 GW-AE-2A 0.125	9.92e3	16.5	YES

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Name: 170926M1_101, Date: 27-Sep-2017, Time: 02:49:40, ID: 1701265-64 GW-GZ-109 0.125, Description: GW-GZ-109

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-64 GW-GZ-109 0.125	4.14e4	63.6	NO
2	2 13C3-PFHxS	1701265-64 GW-GZ-109 0.125	6.92e3	69.1	NO
3	3 13C8-PFOA	1701265-64 GW-GZ-109 0.125	2.88e4	62.8	NO
4	4 13C9-PFNA	1701265-64 GW-GZ-109 0.125	3.65e4	59.3	NO
5	5 13C4-PFOS	1701265-64 GW-GZ-109 0.125	6.86e3	58.7	NO
6	6 13C6-PFDA	1701265-64 GW-GZ-109 0.125	2.75e4	55.8	NO
7	7 13C7-PFUnA	1701265-64 GW-GZ-109 0.125	1.48e4	24.7	YES

Name: 170926M1_102, Date: 27-Sep-2017, Time: 03:00:27, ID: 1701265-65 DW-R-4ROD 0.125, Description: DW-R-4ROD

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-65 DW-R-4ROD 0.125	3.67e4	56.2	NO
2	2 13C3-PFHxS	1701265-65 DW-R-4ROD 0.125	6.79e3	67.8	NO
3	3 13C8-PFOA	1701265-65 DW-R-4ROD 0.125	2.40e4	52.2	NO
4	4 13C9-PFNA	1701265-65 DW-R-4ROD 0.125	1.63e4	26.5	YES
5	5 13C4-PFOS	1701265-65 DW-R-4ROD 0.125	2.30e3	19.7	YES
6	6 13C6-PFDA	1701265-65 DW-R-4ROD 0.125	6.32e3	12.8	YES
7	7 13C7-PFUnA	1701265-65 DW-R-4ROD 0.125	3.66e3	6.1	YES

Name: 170926M1_103, Date: 27-Sep-2017, Time: 03:11:13, ID: 1701265-66 SW-SW-111 0.125, Description: SW-SW-111

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-66 SW-SW-111 0.125	3.60e4	55.3	NO
2	2 13C3-PFHxS	1701265-66 SW-SW-111 0.125	6.45e3	64.4	NO
3	3 13C8-PFOA	1701265-66 SW-SW-111 0.125	2.73e4	59.6	NO
4	4 13C9-PFNA	1701265-66 SW-SW-111 0.125	2.45e4	39.8	YES
5	5 13C4-PFOS	1701265-66 SW-SW-111 0.125	3.57e3	30.5	YES
6	6 13C6-PFDA	1701265-66 SW-SW-111 0.125	1.56e4	31.6	YES
7	7 13C7-PFUnA	1701265-66 SW-SW-111 0.125	1.24e4	20.6	YES

Name: 170926M1_104, Date: 27-Sep-2017, Time: 03:21:52, ID: 1701265-67 GW-FPC-9B 0.125, Description: GW-FPC-9B

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-67 GW-FPC-9B 0.125	3.75e4	57.6	NO
2	2 13C3-PFHxS	1701265-67 GW-FPC-9B 0.125	6.74e3	67.3	NO
3	3 13C8-PFOA	1701265-67 GW-FPC-9B 0.125	2.72e4	59.3	NO
4	4 13C9-PFNA	1701265-67 GW-FPC-9B 0.125	3.25e4	52.7	NO
5	5 13C4-PFOS	1701265-67 GW-FPC-9B 0.125	4.92e3	42.1	YES
6	6 13C6-PFDA	1701265-67 GW-FPC-9B 0.125	1.86e4	37.7	YES
7	7 13C7-PFUnA	1701265-67 GW-FPC-9B 0.125	1.29e4	21.4	YES

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Name: 170926M1_105, Date: 27-Sep-2017, Time: 03:32:30, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_106, Date: 27-Sep-2017, Time: 03:43:09, ID: ST170926M1-15 PFC CS3 17I2610, Description: PFC CS3 17I2610

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170926M1-15 PFC CS3 17I2610	4.24e4	65.1	NO
2	2 13C3-PFHxS	ST170926M1-15 PFC CS3 17I2610	7.39e3	73.8	NO
3	3 13C8-PFOA	ST170926M1-15 PFC CS3 17I2610	3.40e4	74.1	NO
4	4 13C9-PFNA	ST170926M1-15 PFC CS3 17I2610	4.04e4	65.6	NO
5	5 13C4-PFOS	ST170926M1-15 PFC CS3 17I2610	9.86e3	84.4	NO
6	6 13C6-PFDA	ST170926M1-15 PFC CS3 17I2610	3.32e4	67.4	NO
7	7 13C7-PFUnA	ST170926M1-15 PFC CS3 17I2610	4.12e4	68.6	NO

Name: 170926M1_107, Date: 27-Sep-2017, Time: 03:53:55, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_108, Date: 27-Sep-2017, Time: 04:04:33, ID: 1701265-68 DW-R-9SMW 0.125, Description: DW-R-9SMW

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-68 DW-R-9SMW 0.125	4.01e4	61.5	NO
2	2 13C3-PFHxS	1701265-68 DW-R-9SMW 0.125	7.37e3	73.6	NO
3	3 13C8-PFOA	1701265-68 DW-R-9SMW 0.125	2.71e4	59.0	NO
4	4 13C9-PFNA	1701265-68 DW-R-9SMW 0.125	3.08e4	50.0	NO
5	5 13C4-PFOS	1701265-68 DW-R-9SMW 0.125	4.12e3	35.2	YES
6	6 13C6-PFDA	1701265-68 DW-R-9SMW 0.125	1.45e4	29.5	YES
7	7 13C7-PFUnA	1701265-68 DW-R-9SMW 0.125	4.84e3	8.1	YES

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Name: 170926M1_109, Date: 27-Sep-2017, Time: 04:15:21, ID: 1701265-69 GW-MW-9 0.125, Description: GW-MW-9

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-69 GW-MW-9 0.125	3.71e4	57.0	NO
2	2 13C3-PFHxS	1701265-69 GW-MW-9 0.125	4.87e3	48.7	YES
3	3 13C8-PFOA	1701265-69 GW-MW-9 0.125	2.15e4	46.7	YES
4	4 13C9-PFNA	1701265-69 GW-MW-9 0.125	1.99e4	32.4	YES
5	5 13C4-PFOS	1701265-69 GW-MW-9 0.125	3.24e3	27.8	YES
6	6 13C6-PFDA	1701265-69 GW-MW-9 0.125	1.02e4	20.7	YES
7	7 13C7-PFUnA	1701265-69 GW-MW-9 0.125	7.63e3	12.7	YES

Name: 170926M1_110, Date: 27-Sep-2017, Time: 04:26:25, ID: 1701265-70 GW-AE-1B 0.125, Description: GW-AE-1B

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-70 GW-AE-1B 0.125	3.84e4	58.9	NO
2	2 13C3-PFHxS	1701265-70 GW-AE-1B 0.125	6.81e3	68.0	NO
3	3 13C8-PFOA	1701265-70 GW-AE-1B 0.125	2.83e4	61.6	NO
4	4 13C9-PFNA	1701265-70 GW-AE-1B 0.125	3.32e4	53.8	NO
5	5 13C4-PFOS	1701265-70 GW-AE-1B 0.125	7.70e3	65.9	NO
6	6 13C6-PFDA	1701265-70 GW-AE-1B 0.125	3.13e4	63.6	NO
7	7 13C7-PFUnA	1701265-70 GW-AE-1B 0.125	2.11e4	35.0	YES

Name: 170926M1_111, Date: 27-Sep-2017, Time: 04:37:21, ID: 1701265-71 GW-AE-2B 0.125, Description: GW-AE-2B

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-71 GW-AE-2B 0.125	4.18e4	64.1	NO
2	2 13C3-PFHxS	1701265-71 GW-AE-2B 0.125	7.34e3	73.3	NO
3	3 13C8-PFOA	1701265-71 GW-AE-2B 0.125	3.11e4	67.8	NO
4	4 13C9-PFNA	1701265-71 GW-AE-2B 0.125	3.36e4	54.6	NO
5	5 13C4-PFOS	1701265-71 GW-AE-2B 0.125	5.30e3	45.3	YES
6	6 13C6-PFDA	1701265-71 GW-AE-2B 0.125	1.96e4	39.7	YES
7	7 13C7-PFUnA	1701265-71 GW-AE-2B 0.125	1.32e4	21.9	YES

Name: 170926M1_112, Date: 27-Sep-2017, Time: 04:48:12, ID: 1701265-72 GW-MW-5D 0.125, Description: GW-MW-5D

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-72 GW-MW-5D 0.125	4.10e4	62.8	NO
2	2 13C3-PFHxS	1701265-72 GW-MW-5D 0.125	7.21e3	72.0	NO
3	3 13C8-PFOA	1701265-72 GW-MW-5D 0.125	2.69e4	58.5	NO
4	4 13C9-PFNA	1701265-72 GW-MW-5D 0.125	2.86e4	46.3	YES
5	5 13C4-PFOS	1701265-72 GW-MW-5D 0.125	4.72e3	40.4	YES
6	6 13C6-PFDA	1701265-72 GW-MW-5D 0.125	1.71e4	34.7	YES
7	7 13C7-PFUnA	1701265-72 GW-MW-5D 0.125	1.23e4	20.4	YES

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Name: 170926M1_113, Date: 27-Sep-2017, Time: 04:59:03, ID: 1701265-73 GW-MW-10 0.125, Description: GW-MW-10

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-73 GW-MW-10 0.125	3.77e4	57.9	NO
2	2 13C3-PFHxS	1701265-73 GW-MW-10 0.125	6.45e3	64.5	NO
3	3 13C8-PFOA	1701265-73 GW-MW-10 0.125	2.72e4	59.2	NO
4	4 13C9-PFNA	1701265-73 GW-MW-10 0.125	3.42e4	55.4	NO
5	5 13C4-PFOS	1701265-73 GW-MW-10 0.125	5.66e3	48.4	YES
6	6 13C6-PFDA	1701265-73 GW-MW-10 0.125	1.83e4	37.1	YES
7	7 13C7-PFUnA	1701265-73 GW-MW-10 0.125	1.08e4	18.0	YES

Name: 170926M1_114, Date: 27-Sep-2017, Time: 05:09:49, ID: 1701265-74 GW-MW-4 0.125, Description: GW-MW-4

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-74 GW-MW-4 0.125	4.01e4	61.6	NO
2	2 13C3-PFHxS	1701265-74 GW-MW-4 0.125	7.54e3	75.3	NO
3	3 13C8-PFOA	1701265-74 GW-MW-4 0.125	2.74e4	59.7	NO
4	4 13C9-PFNA	1701265-74 GW-MW-4 0.125	3.43e4	55.7	NO
5	5 13C4-PFOS	1701265-74 GW-MW-4 0.125	6.40e3	54.8	NO
6	6 13C6-PFDA	1701265-74 GW-MW-4 0.125	2.08e4	42.2	YES
7	7 13C7-PFUnA	1701265-74 GW-MW-4 0.125	1.39e4	23.1	YES

Name: 170926M1_115, Date: 27-Sep-2017, Time: 05:20:27, ID: 1701265-75 GW-MW-4 DUP 0.125, Description: GW-MW-4 DUP

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-75 GW-MW-4 DUP 0.125	3.92e4	60.2	NO
2	2 13C3-PFHxS	1701265-75 GW-MW-4 DUP 0.125	7.21e3	72.0	NO
3	3 13C8-PFOA	1701265-75 GW-MW-4 DUP 0.125	3.05e4	66.5	NO
4	4 13C9-PFNA	1701265-75 GW-MW-4 DUP 0.125	3.10e4	50.2	NO
5	5 13C4-PFOS	1701265-75 GW-MW-4 DUP 0.125	5.34e3	45.7	YES
6	6 13C6-PFDA	1701265-75 GW-MW-4 DUP 0.125	2.04e4	41.5	YES
7	7 13C7-PFUnA	1701265-75 GW-MW-4 DUP 0.125	1.44e4	23.9	YES

Name: 170926M1_116, Date: 27-Sep-2017, Time: 05:31:06, ID: 1701265-76 DW-R-16SMW 0.125, Description: DW-R-16SMW

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-76 DW-R-16SMW 0.125	4.04e4	61.9	NO
2	2 13C3-PFHxS	1701265-76 DW-R-16SMW 0.125	7.31e3	73.0	NO
3	3 13C8-PFOA	1701265-76 DW-R-16SMW 0.125	3.26e4	71.1	NO
4	4 13C9-PFNA	1701265-76 DW-R-16SMW 0.125	3.43e4	55.6	NO
5	5 13C4-PFOS	1701265-76 DW-R-16SMW 0.125	5.53e3	47.3	YES
6	6 13C6-PFDA	1701265-76 DW-R-16SMW 0.125	2.37e4	48.1	YES
7	7 13C7-PFUnA	1701265-76 DW-R-16SMW 0.125	1.01e4	16.8	YES

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Name: 170926M1_117, Date: 27-Sep-2017, Time: 05:41:52, ID: 1701265-77 SW-SW-103 0.125, Description: SW-SW-103

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-77 SW-SW-103 0.125	3.90e4	59.8	NO
2	2 13C3-PFHxS	1701265-77 SW-SW-103 0.125	7.35e3	73.4	NO
3	3 13C8-PFOA	1701265-77 SW-SW-103 0.125	3.03e4	66.0	NO
4	4 13C9-PFNA	1701265-77 SW-SW-103 0.125	2.58e4	41.8	YES
5	5 13C4-PFOS	1701265-77 SW-SW-103 0.125	4.63e3	39.6	YES
6	6 13C6-PFDA	1701265-77 SW-SW-103 0.125	1.56e4	31.5	YES
7	7 13C7-PFUnA	1701265-77 SW-SW-103 0.125	1.29e4	21.4	YES

Name: 170926M1_118, Date: 27-Sep-2017, Time: 05:52:30, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

Name: 170926M1_119, Date: 27-Sep-2017, Time: 06:03:17, ID: ST170926M1-16 PFC CS3 17I2610, Description: PFC CS3 17I2610

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	ST170926M1-16 PFC CS3 17I2610	4.89e4	75.0	NO
2	2 13C3-PFHxS	ST170926M1-16 PFC CS3 17I2610	7.96e3	79.5	NO
3	3 13C8-PFOA	ST170926M1-16 PFC CS3 17I2610	3.58e4	78.0	NO
4	4 13C9-PFNA	ST170926M1-16 PFC CS3 17I2610	4.45e4	72.3	NO
5	5 13C4-PFOS	ST170926M1-16 PFC CS3 17I2610	8.96e3	76.7	NO
6	6 13C6-PFDA	ST170926M1-16 PFC CS3 17I2610	3.59e4	72.9	NO
7	7 13C7-PFUnA	ST170926M1-16 PFC CS3 17I2610	4.11e4	68.4	NO

Name: 170926M1_120, Date: 27-Sep-2017, Time: 06:14:03, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA			NO
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA			NO

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Name: 170926M1_121, Date: 27-Sep-2017, Time: 06:24:42, ID: 1701265-78 GW-AE-1A 0.125, Description: GW-AE-1A

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-78 GW-AE-1A 0.125	4.16e4	63.9	NO
2	2 13C3-PFHxS	1701265-78 GW-AE-1A 0.125	7.14e3	71.3	NO
3	3 13C8-PFOA	1701265-78 GW-AE-1A 0.125	2.85e4	62.1	NO
4	4 13C9-PFNA	1701265-78 GW-AE-1A 0.125	3.95e4	64.0	NO
5	5 13C4-PFOS	1701265-78 GW-AE-1A 0.125	8.18e3	70.0	NO
6	6 13C6-PFDA	1701265-78 GW-AE-1A 0.125	2.89e4	58.6	NO
7	7 13C7-PFUnA	1701265-78 GW-AE-1A 0.125	2.41e4	40.2	YES

Name: 170926M1_122, Date: 27-Sep-2017, Time: 06:35:20, ID: 1701265-82 DW-R-339BHR 0.125, Description: DW-R-339BHR

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	1701265-82 DW-R-339BHR 0.125	4.66e4	71.5	NO
2	2 13C3-PFHxS	1701265-82 DW-R-339BHR 0.125	7.21e3	72.0	NO
3	3 13C8-PFOA	1701265-82 DW-R-339BHR 0.125	3.10e4	67.6	NO
4	4 13C9-PFNA	1701265-82 DW-R-339BHR 0.125	3.68e4	59.7	NO
5	5 13C4-PFOS	1701265-82 DW-R-339BHR 0.125	7.05e3	60.4	NO
6	6 13C6-PFDA	1701265-82 DW-R-339BHR 0.125	1.92e4	39.0	YES
7	7 13C7-PFUnA	1701265-82 DW-R-339BHR 0.125	1.22e4	20.3	YES

Name: 170926M1_123, Date: 27-Sep-2017, Time: 06:45:58, ID: Kyle tester 17I2632, Description: Kyle tester 17I2632

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	Kyle tester 17I2632	1.06e2	0.2	YES
2	2 13C3-PFHxS	Kyle tester 17I2632	3.57e1	0.4	YES
3	3 13C8-PFOA	Kyle tester 17I2632	2.19e2	0.5	YES
4	4 13C9-PFNA	Kyle tester 17I2632	1.24e6	2016.8	YES
5	5 13C4-PFOS	Kyle tester 17I2632			NO
6	6 13C6-PFDA	Kyle tester 17I2632			NO
7	7 13C7-PFUnA	Kyle tester 17I2632	7.83e5	1303.1	YES

Name: 170926M1_124, Date: 27-Sep-2017, Time: 06:56:45, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C5-PFHxA	IPA			NO
2	2 13C3-PFHxS	IPA			NO
3	3 13C8-PFOA	IPA			NO
4	4 13C9-PFNA	IPA	1.75e1	0.0	YES
5	5 13C4-PFOS	IPA			NO
6	6 13C6-PFDA	IPA			NO
7	7 13C7-PFUnA	IPA	1.94e1	0.0	YES

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Name: 170926M1_125, Date: 27-Sep-2017, Time: 07:07:23, ID: ST170926M1-17 PFC CS3 17I2610, Description: PFC CS3 17I2610

	#	Name	ID	Area	%Rec	Area Out
1	1	13C5-PFHxA	ST170926M1-17 PFC CS3 17I2610	5.24e4	80.4	NO
2	2	13C3-PFHxS	ST170926M1-17 PFC CS3 17I2610	7.52e3	75.1	NO
3	3	13C8-PFOA	ST170926M1-17 PFC CS3 17I2610	3.87e4	84.4	NO
4	4	13C9-PFNA	ST170926M1-17 PFC CS3 17I2610	4.06e4	65.8	NO
5	5	13C4-PFOS	ST170926M1-17 PFC CS3 17I2610	9.56e3	81.8	NO
6	6	13C6-PFDA	ST170926M1-17 PFC CS3 17I2610	4.25e4	86.2	NO
7	7	13C7-PFUnA	ST170926M1-17 PFC CS3 17I2610	4.32e4	72.0	NO

Dataset: Untitled

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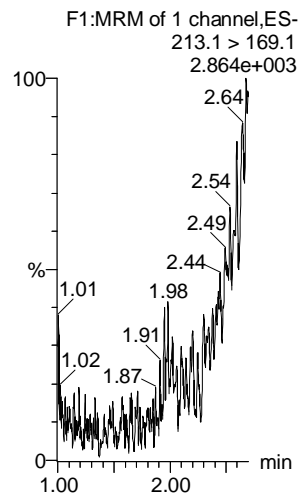
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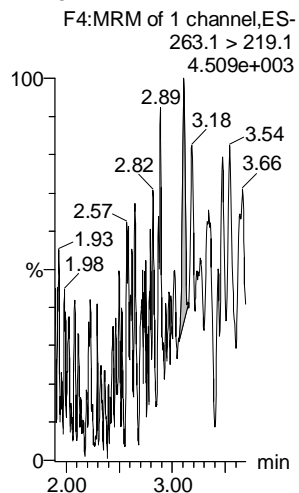
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

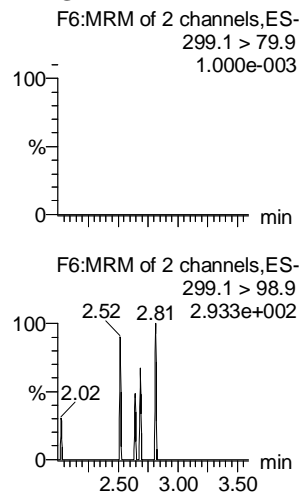
PFBA



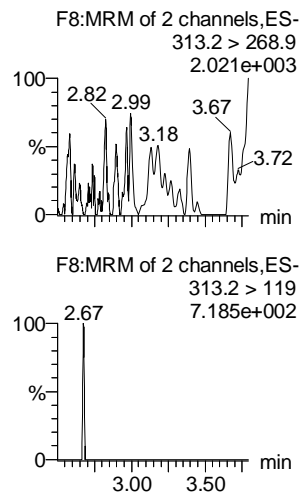
PFPeA



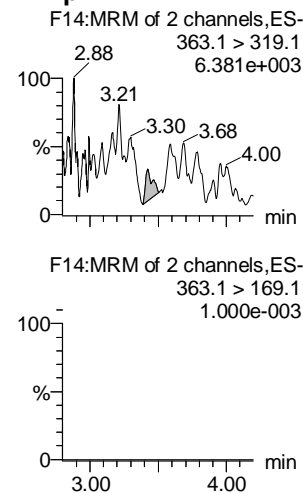
PFBS



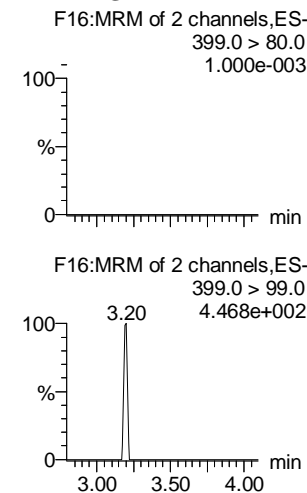
PFHxA



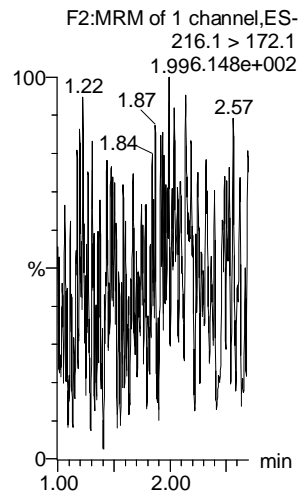
PFHpA



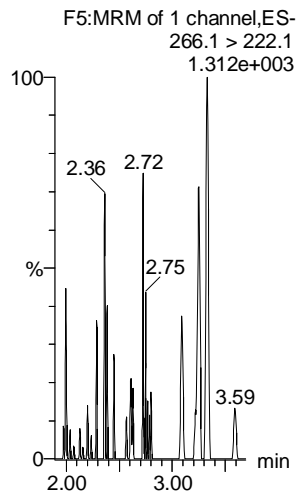
L-PFHxS



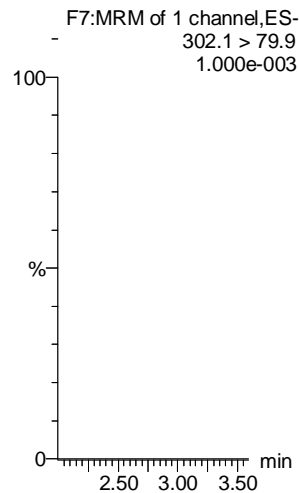
13C3-PFBA



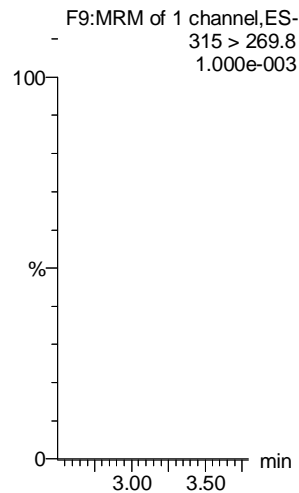
13C3-PFPeA



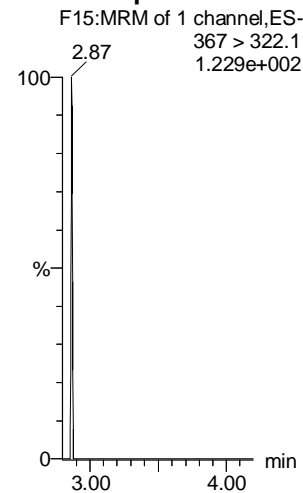
13C3-PFBS



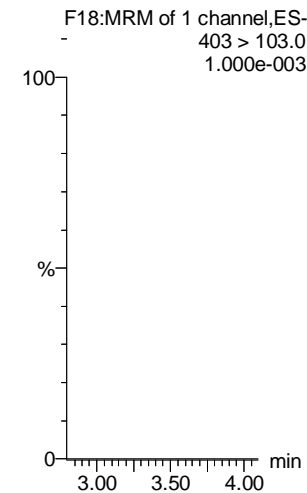
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

6:2 FTS

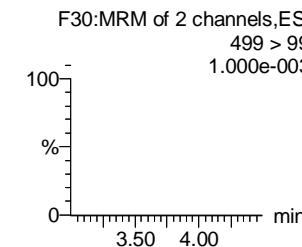
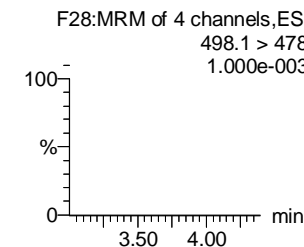
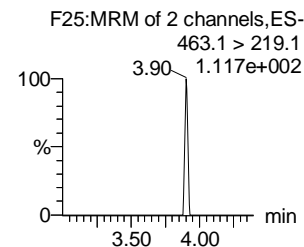
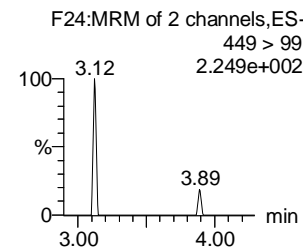
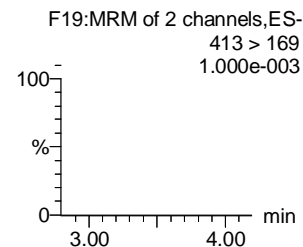
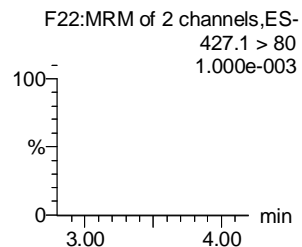
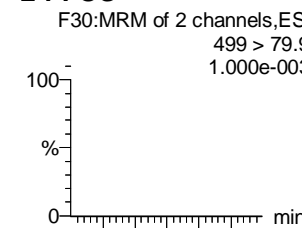
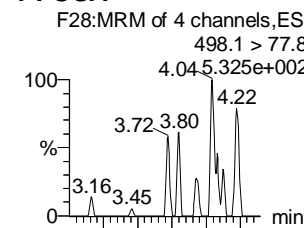
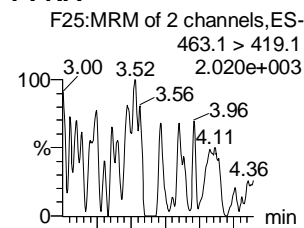
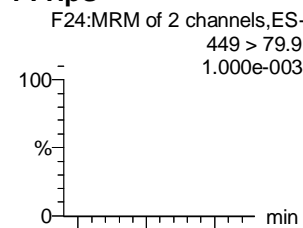
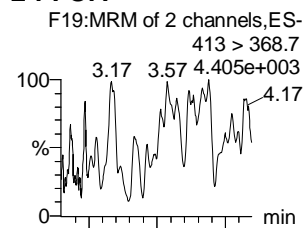
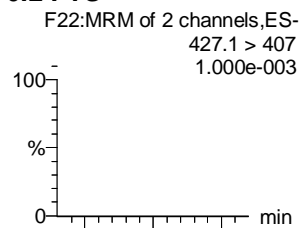
L-PFOA

PFHpS

PFNA

PFOSA

L-PFOS



13C2-6:2 FTS

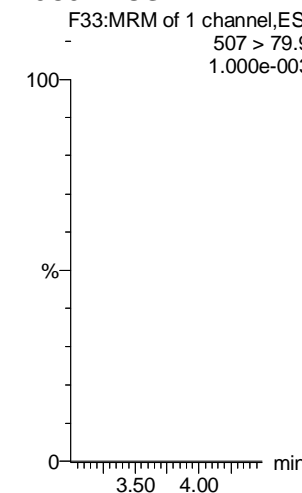
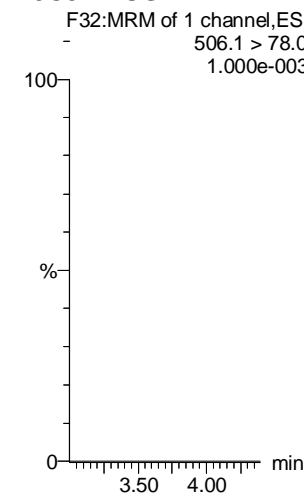
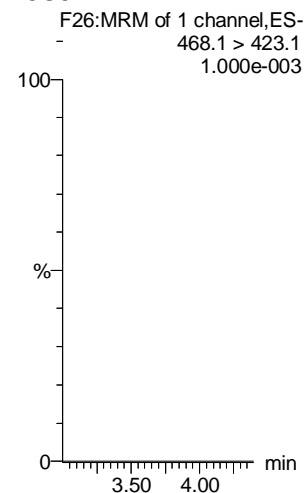
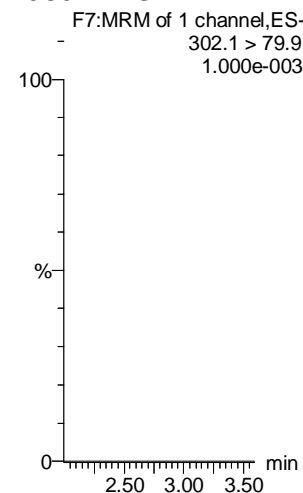
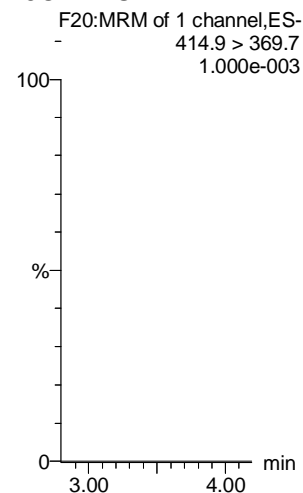
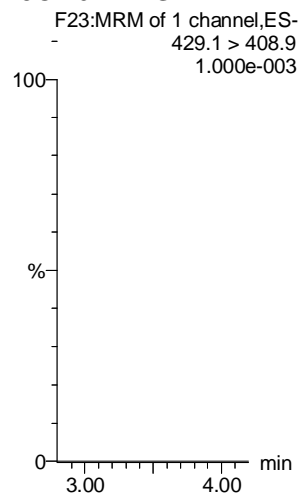
13C2-PFOA

13C3-PFBS

13C5-PFNA

13C8-PFOSA

13C8-PFOS



Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

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Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

PFDA

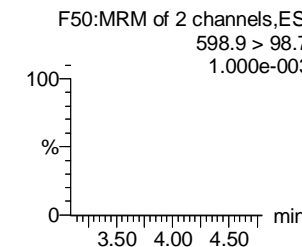
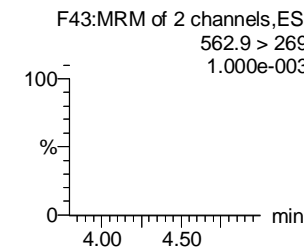
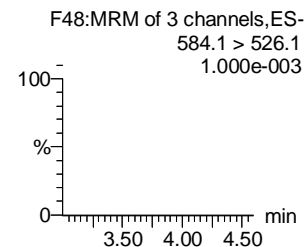
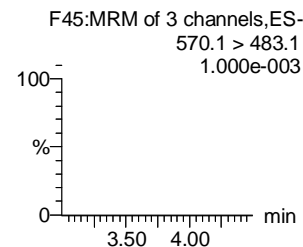
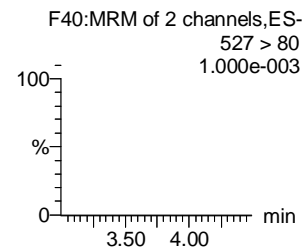
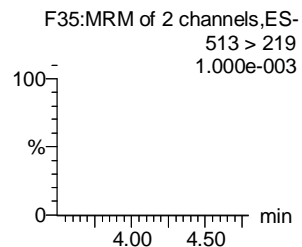
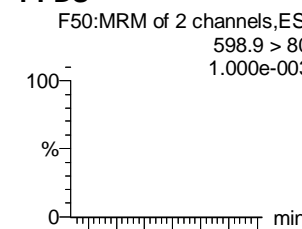
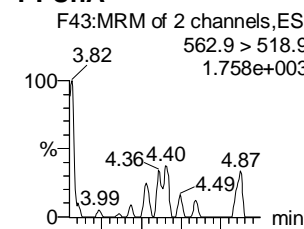
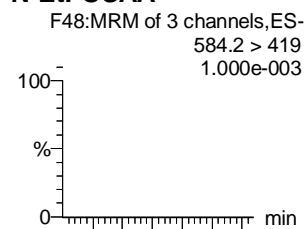
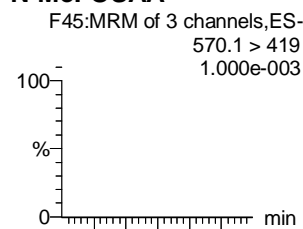
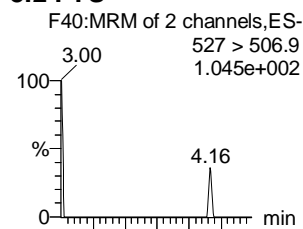
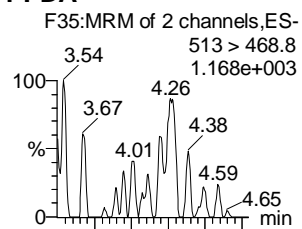
8:2 FTS

N-MeFOSAA

N-EtFOSAA

PFUnA

PFDS



13C2-PFDA

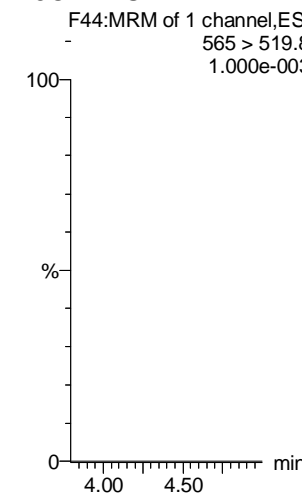
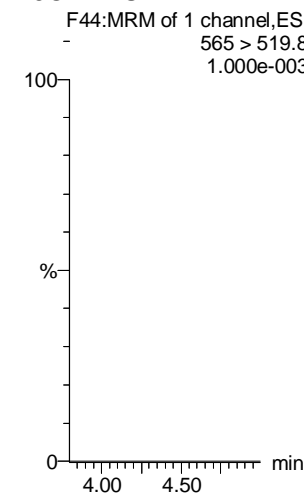
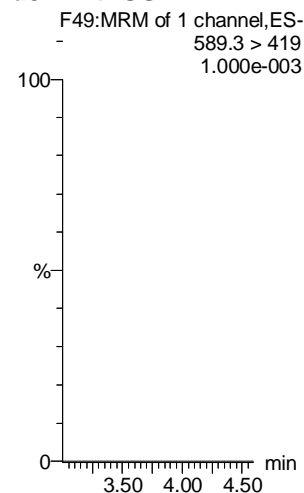
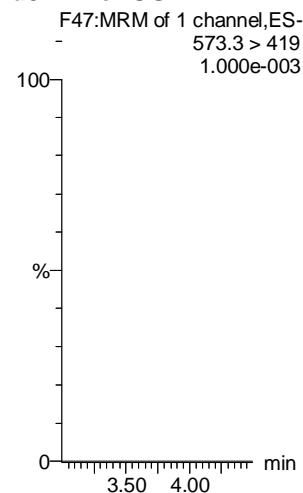
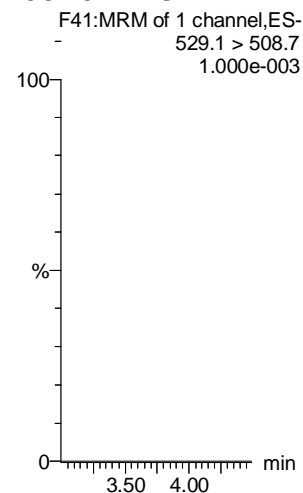
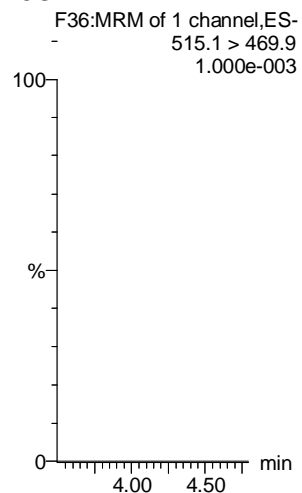
13C2-8:2 FTS

d3-N-MeFOSAA

d5-N-EtFOSAA

13C2-PFUnA

13C2-PFUnA



Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

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Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

PFDoA

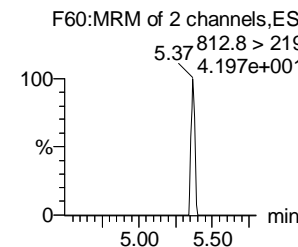
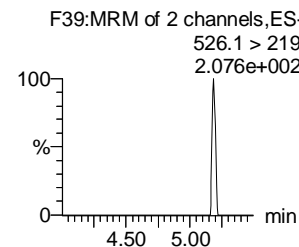
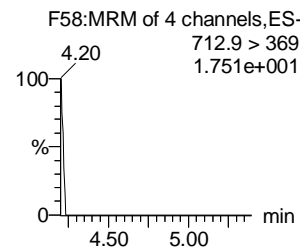
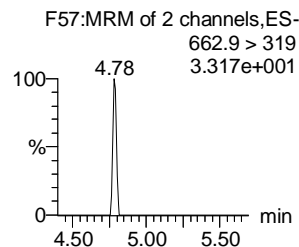
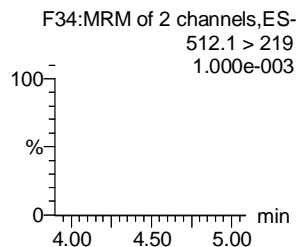
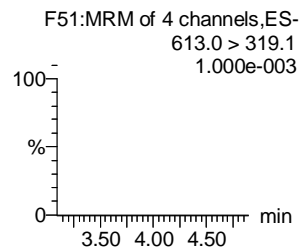
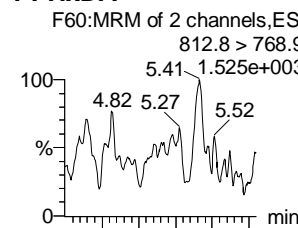
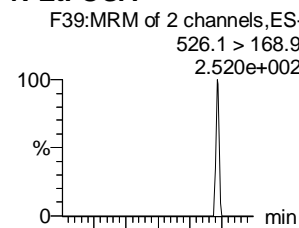
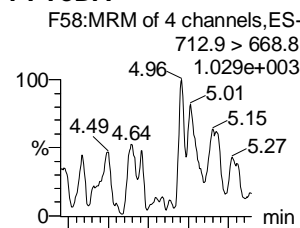
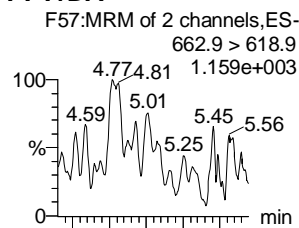
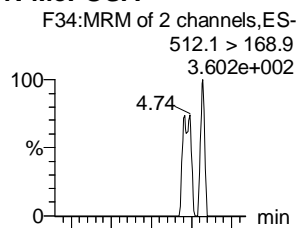
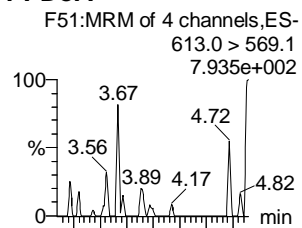
N-MeFOSA

PFTrDA

PFTeDA

N-EtFOSA

PFHxDA



13C2-PFDoA

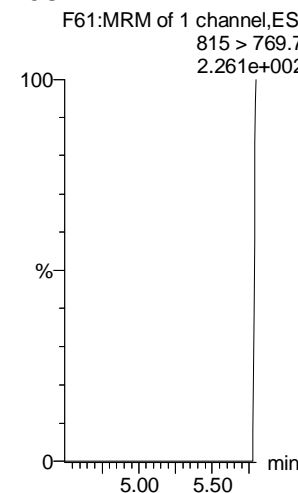
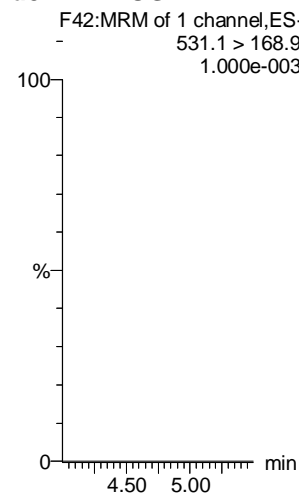
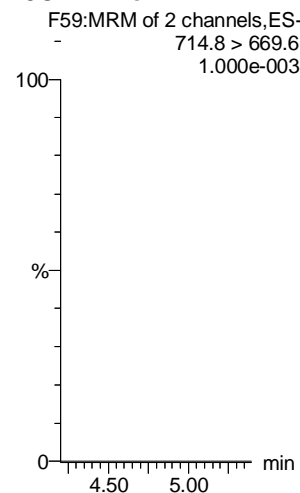
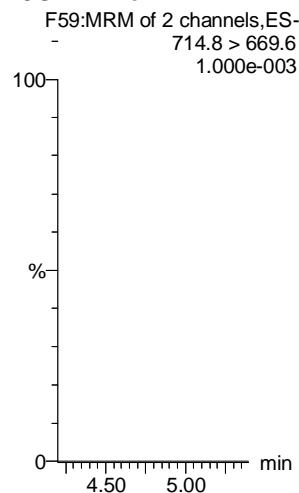
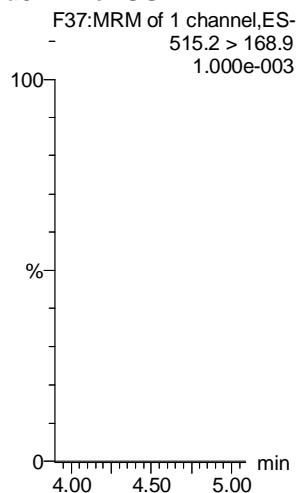
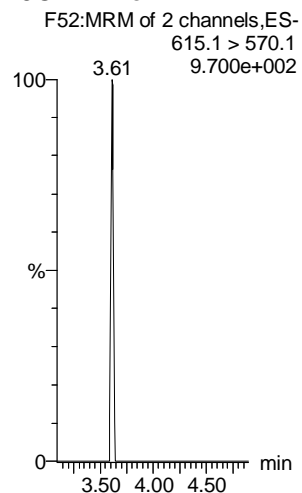
d3-N-MeFOSA

13C2-PFTeDA

13C2-PFTeDA

d5-N-ETFOSA

13C2-PFHxDA



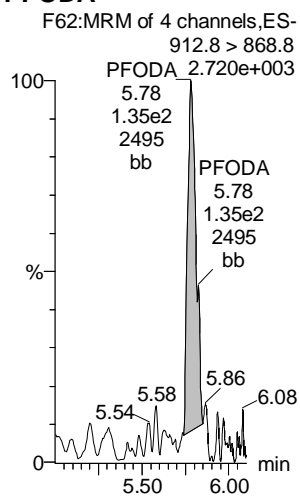
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Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

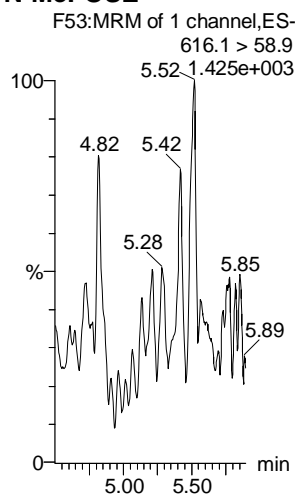
Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

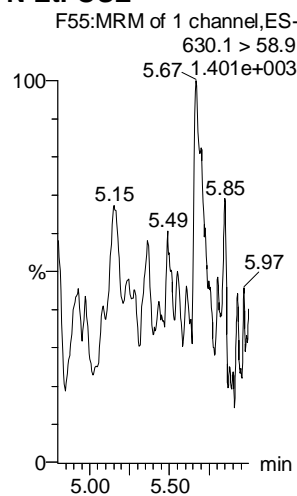
PFODA



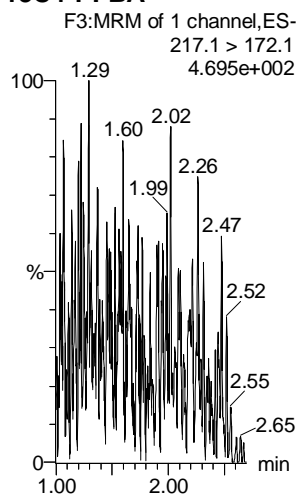
N-MeFOSE



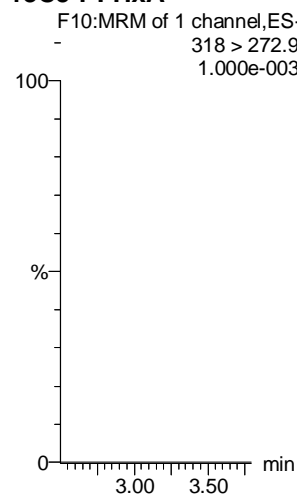
N-EtFOSE



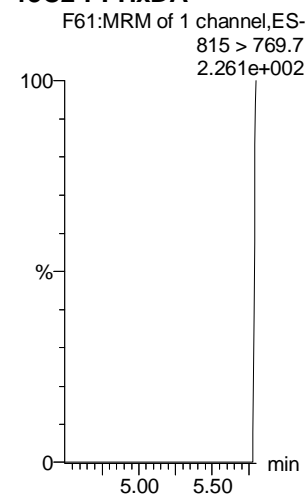
13C4-PFBA



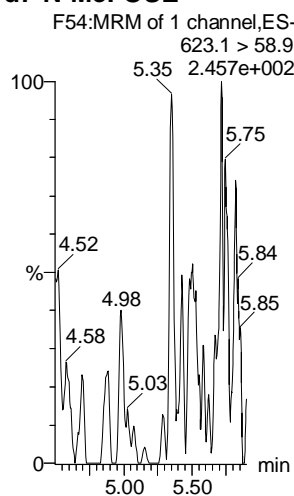
13C5-PFHxA



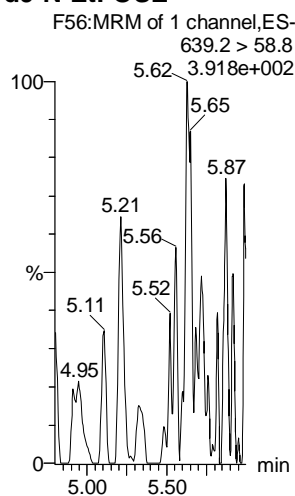
13C2-PFHxDA



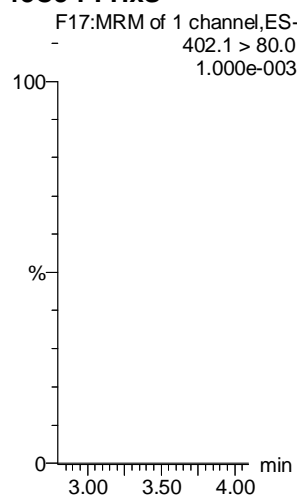
d7-N-MeFOSE



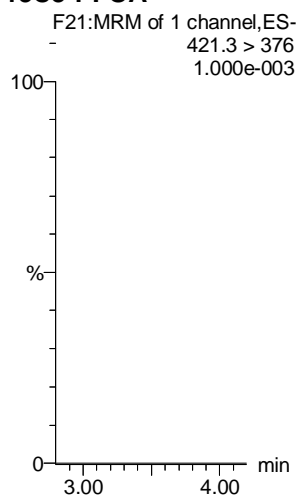
d9-N-EtFOSE



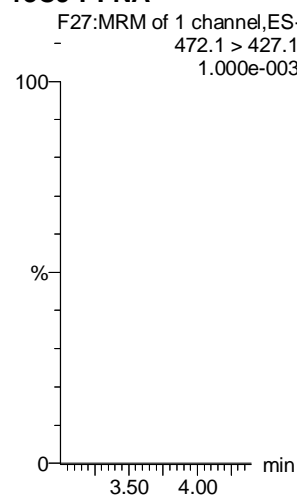
13C3-PFHxS



13C8-PFOA



13C9-PFNA



Dataset: Untitled

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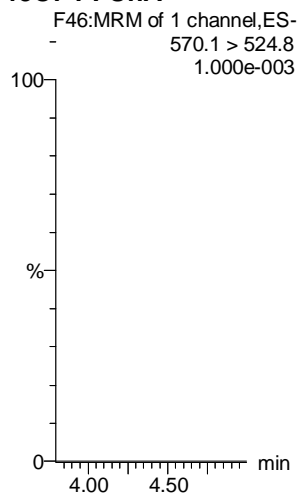
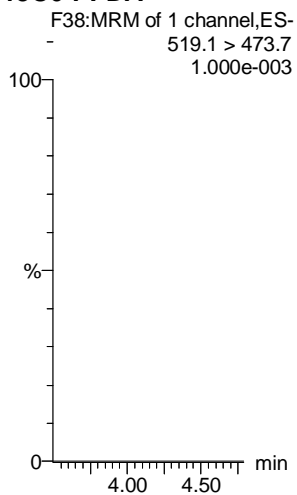
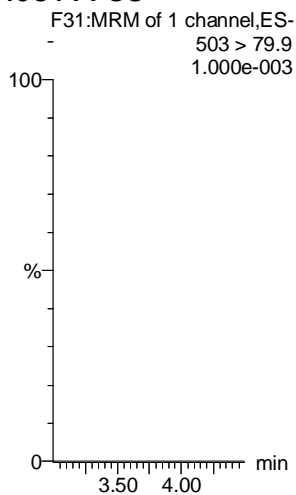
Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

13C4-PFOS

13C6-PFDA

13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-38.qld

Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 1712509, Description: PFC CS3 1712509

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1	1 PFBA	213.1 > 169.1	1.83e4	2.06e4		1.88	1.85	11.1	9.48	94.8
2	2 PFPeA	263.1 > 219.1	3.83e4	4.47e4		2.98	2.96	10.7	10.1	100.6
3	3 PFBS	299.1 > 79.9	9.69e3	1.11e4		3.17	3.14	10.9	10.4	104.3
4	4 PFHxA	313.2 > 268.9	6.14e4	2.00e4		3.37	3.36	15.4	9.90	99.0
5	5 PFHpA	363.1 > 319.1	6.42e4	7.86e4		3.63	3.61	10.2	9.98	99.8
6	6 L-PFHxS	399.0 > 80.0	9.54e3	5.50e3		3.71	3.69	21.7	9.23	92.3
7	8 6:2 FTS	427.1 > 407	6.92e3	8.17e3		3.84	3.82	10.6	9.18	91.8
8	9 L-PFOA	413 > 368.7	5.34e4	5.75e4		3.84	3.83	11.6	10.7	107.4
9	11 PFHpS	449 > 79.9	9.54e3	5.75e4		3.90	3.88	2.07	9.16	91.6
10	12 PFNA	463.1 > 419.1	5.56e4	6.17e4		4.03	4.02	11.3	10.1	101.3
11	13 PFOSA	498.1 > 77.8	6.22e3	7.74e3		4.04	4.02	10.0	9.04	90.4
12	14 L-PFOS	499 > 79.9	9.36e3	1.22e4		4.08	4.07	9.56	8.95	89.5
13	16 PFDA	513 > 468.8	5.86e4	4.80e4		4.21	4.20	15.3	10.3	103.1
14	17 8:2 FTS	527 > 506.9	8.22e3	7.37e3		4.21	4.19	14.0	8.55	85.5
15	18 N-MeFOSAA	570.1 > 419	1.50e4	1.27e4		4.24	4.22	192	8.42	84.2
16	19 N-EtFOSAA	584.2 > 419	1.28e4	1.32e4		4.32	4.30	157	9.71	97.1
17	20 PFUnA	562.9 > 518.9	4.28e4	5.39e4		4.39	4.37	9.92	9.94	99.4
18	21 PFDS	598.9 > 80	8.98e3	5.39e4		4.45	4.43	2.08	9.45	94.5
19	22 PFDoA	613.0 > 569.1	4.63e4	5.33e4		4.59	4.56	10.9	8.97	89.7
20	23 N-MeFOSA	512.1 > 168.9	9.88e3	2.50e4		4.70	4.69	59.3	51.6	103.2
21	24 PFTTrDA	662.9 > 618.9	6.36e4	5.33e4		4.78	4.76	14.9	9.54	95.4
22	25 PFTeDA	712.9 > 668.8	4.39e4	4.26e4		4.99	4.97	12.9	9.24	92.4
23	26 N-EtFOSA	526.1 > 168.9	1.23e4	3.91e4		5.20	5.20	47.1	49.5	99.0
24	27 PFHxDA	812.8 > 768.9	6.01e4	2.02e4		5.40	5.37	14.9	9.45	94.5
25	28 PFODA	912.8 > 868.8	7.10e4	2.02e4		5.79	5.76	17.6	10.8	107.7
26	29 N-MeFOSE	616.1 > 58.9	1.63e4	4.70e4		5.50	5.51	52.2	47.2	94.5
27	30 N-EtFOSE	630.1 > 58.9	1.88e4	4.63e4		5.68	5.69	60.9	49.9	99.8
28	31 13C3-PFBA	216.1 > 172.1	2.06e4	2.27e4	0.890	1.88	1.85	11.4	12.8	102.3
29	32 13C3-PFPeA	266.1 > 222.1	4.47e4	6.99e4	0.236	2.98	2.96	3.20	13.6	108.4
30	33 13C3-PFBS	302.1 > 79.9	1.11e4	6.99e4	0.056	3.17	3.14	0.795	14.2	113.8
31	Work Order PFTTrDA	315 > 269.8	2.00e4	6.99e4	0.283	3.37	3.36	1.43	5.04	100.8

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50-110

Dataset: U:\Q4.PRO\results\170926M1\170926M1-38.qld

Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 1712509, Description: PFC CS3 1712509

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367 > 322.1	7.86e4	6.99e4	0.499	3.63	3.61	5.62	11.3	90.1
33	36 18O2-PFHxS	403 > 103.0	5.50e3	1.05e4	0.482	3.71	3.69	6.52	13.5	108.1
34	37 13C2-6:2 FTS	429.1 > 408.9	8.17e3	4.74e4	0.183	3.84	3.82	2.15	11.8	94.1
35	38 13C2-PFOA	414.9 > 369.7	5.75e4	4.74e4	1.158	3.84	3.83	15.2	13.1	104.9
36	39 13C5-PFNA	468.1 > 423.1	6.17e4	6.26e4	0.888	4.03	4.01	12.3	13.9	110.9
37	40 13C8-PFOSA	506.1 > 78.0	7.74e3	5.80e4	0.143	4.04	4.02	1.67	11.7	93.6
38	41 13C8-PFOS	507 > 79.9	1.22e4	1.24e4	1.013	4.08	4.07	12.4	12.2	97.9
39	42 13C2-PFDA	515.1 > 469.9	4.80e4	5.60e4	0.876	4.21	4.20	10.7	12.2	97.8
40	43 13C2-8:2 FTS	529.1 > 508.7	7.37e3	5.60e4	0.148	4.21	4.19	1.64	11.1	89.0
41	44 d3-N-MeFOSAA	573.3 > 419	1.27e4	5.80e4	0.017	4.24	4.23	2.74	161	98.9
42	45 d5-N-EtFOSAA	589.3 > 419	1.32e4	5.80e4	0.019	4.32	4.29	2.85	154	94.5
43	46 13C2-PFUnA	565 > 519.8	5.39e4	5.80e4	0.959	4.39	4.37	11.6	12.1	96.9
44	47 13C2-PFDoA	615.1 > 570.1	5.33e4	5.80e4	1.003	4.59	4.56	11.5	11.5	91.7
45	48 d3-N-MeFOSA	515.2 > 168.9	2.50e4	5.80e4	0.041	4.70	4.72	5.39	130	86.6
46	49 13C2-PFTeDA	714.8 > 669.6	4.26e4	5.80e4	0.716	4.99	4.96	9.18	12.8	102.5
47	50 d5-N-ETFOSA	531.1 > 168.9	3.91e4	5.80e4	0.063	5.20	5.23	8.43	133	88.7
48	51 13C2-PFHxDA	815 > 769.7	2.02e4	5.80e4	0.892	5.40	5.37	4.36	4.88	97.7
49	52 d7-N-MeFOSE	623.1 > 58.9	4.70e4	5.80e4	0.075	5.50	5.50	10.1	134	89.5
50	53 d9-N-EtFOSE	639.2 > 58.8	4.63e4	5.80e4	0.076	5.68	5.67	9.98	131	87.0
51	54 13C4-PFBA	217.1 > 172.1	2.27e4	2.27e4	1.000	1.88	1.85	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	6.99e4	6.99e4	1.000	3.37	3.36	5.00	5.00	100.0
53	56 13C3-PFHxS	402.1 > 80.0	1.05e4	1.05e4	1.000	3.71	3.69	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	4.74e4	4.74e4	1.000	3.84	3.83	12.5	12.5	100.0
55	58 13C9-PFNA	472.1 > 427.1	6.26e4	6.26e4	1.000	4.03	4.01	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	1.24e4	1.24e4	1.000	4.08	4.07	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	5.60e4	5.60e4	1.000	4.21	4.20	12.5	12.5	100.0
58	61 13C7-PFUnA	570.1 > 524.8	5.80e4	5.80e4	1.000	4.39	4.38	12.5	12.5	100.0

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Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:11:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170926M1_5	IPA	26-Sep-17	09:18:26
2	170926M1_6	ST170926M1-1 PFC CS-2 17I2504	26-Sep-17	09:34:33
3	170926M1_7	ST170926M1-2 PFC CS-1 17I2505	26-Sep-17	09:56:46
4	170926M1_8	ST170926M1-3 PFC CS0 17I2506	26-Sep-17	10:09:38
5	170926M1_9	ST170926M1-4 PFC CS1 17I2507	26-Sep-17	10:20:25
6	170926M1_10	ST170926M1-5 PFC CS2 17I2508	26-Sep-17	10:31:03
7	170926M1_11	ST170926M1-6 PFC CS3 17I2509	26-Sep-17	10:41:42
8	170926M1_12	ST170926M1-7 PFC CS4 17I2510	26-Sep-17	10:52:20
9	170926M1_13	ST170926M1-8 PFC CS5 17I2511	26-Sep-17	11:02:58
10	170926M1_14	ST170926M1-9 PFC CS6 17I2512	26-Sep-17	11:13:37
11	170926M1_15	ST170926M1-10 PFC CS7 17I2513	26-Sep-17	11:24:23
12	170926M1_16	IPA	26-Sep-17	11:35:02
13	170926M1_17	ICV170926M1-1 PFC ICV 17I2514	26-Sep-17	11:45:48
14	170926M1_18	B7I0074-BS1 OPR 0.125	26-Sep-17	11:56:37
15	170926M1_19	B7I0105-BS1 OPR 0.125	26-Sep-17	12:07:32
16	170926M1_20	IPA	26-Sep-17	12:18:42
17	170926M1_21	B7I0074-BLK1 Method Blank 0.125	26-Sep-17	12:29:28
18	170926M1_22	B7I0105-BLK1 Method Blank 0.125	26-Sep-17	12:40:06
19	170926M1_23	B7I0105-MS1 Matrix Spike 0.125	26-Sep-17	12:50:45
20	170926M1_24	B7I0105-MSD1 Matrix Spike Dup 0.125	26-Sep-17	13:01:31
21	170926M1_25	1701222-01 RI17-EB1-090817 0.125	26-Sep-17	13:12:18
22	170926M1_26	1701222-02 VAS-RI17-B23 (105-107FT) 0.125	26-Sep-17	13:23:04
23	170926M1_27	1701222-04 VAS-RI17-B22 (111-113FT) 0.125	26-Sep-17	13:33:42
24	170926M1_28	1701222-05 VAS-RI17-B22 (111-113FT) DUP ...	26-Sep-17	13:44:29
25	170926M1_29	1701267-01 Lodge Sink 0.125	26-Sep-17	13:55:07
26	170926M1_30	1701270-01 Anchorage (420-126505-1) 0.125	26-Sep-17	14:05:46
27	170926M1_31	1701270-02 Field Blank (PFAS) (420-126505-...	26-Sep-17	14:17:06
28	170926M1_32	1701279-01 GR-OF-20170918 0.125	26-Sep-17	14:28:46
29	170926M1_33	1701279-02 MH-117N-20170918 0.125	26-Sep-17	14:40:21
30	170926M1_34	1701279-03 MH-117T-20170918 0.125	26-Sep-17	14:51:00
31	170926M1_35	1701279-04 MH-118.5N-20170918 0.125	26-Sep-17	15:01:50

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

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Compound name: PFBA

Name	ID	Acq.Date	Acq.Time
32 170926M1_36	1701279-05 MH-118.5T-20170918 0.125	26-Sep-17	15:12:33
33 170926M1_37	IPA	26-Sep-17	15:23:12
34 170926M1_38	ST170926M1-11 PFC CS3 17I2509	26-Sep-17	15:33:50
35 170926M1_39	IPA	26-Sep-17	15:44:29
36 170926M1_40	1701279-06 MH-121.5N-20170918 0.125	26-Sep-17	15:55:18
37 170926M1_41	1701279-07 MH-121.5T-20170918 0.125	26-Sep-17	16:06:02
38 170926M1_42	1701279-08 WEST DITCH IN-20170918 0.125	26-Sep-17	16:17:01
39 170926M1_43	1701279-09 DUP01-20170918 0.125	26-Sep-17	16:28:13
40 170926M1_44	1701279-10 MH-140-BOTTOM 0.125	26-Sep-17	16:38:53
41 170926M1_45	1701279-11 MH-140N-20170918 0.125	26-Sep-17	16:49:38
42 170926M1_46	1701279-12 INTERCEPTOR SUMP-2017091...	26-Sep-17	17:00:16
43 170926M1_47	1701279-13 DUP03-20170918 0.125	26-Sep-17	17:10:55
44 170926M1_48	1701279-14 ROOF DRAIN-20170918 0.125	26-Sep-17	17:21:33
45 170926M1_49	1701279-15 SPRING-20170918 0.125	26-Sep-17	17:32:11
46 170926M1_50	1701279-16 FRB01-20170918 0.125	26-Sep-17	17:42:58
47 170926M1_51	IPA	26-Sep-17	17:53:36
48 170926M1_52	ST170926M1-12 PFC CS3 17I2509	26-Sep-17	18:04:15
49 170926M1_53	IPA	26-Sep-17	18:15:01
50 170926M1_54	B7I0111-BS1 OPR 1	26-Sep-17	18:25:43
51 170926M1_55	B7I0127-BS1 OPR 0.125	26-Sep-17	18:36:27
52 170926M1_56	B7I0128-BS1 OPR 0.125	26-Sep-17	18:47:14
53 170926M1_57	IPA	26-Sep-17	18:58:00
54 170926M1_58	B7I0111-BLK1 Method Blank 1	26-Sep-17	19:08:39
55 170926M1_59	B7I0124-BLK1 Method Blank 1	26-Sep-17	19:19:25
56 170926M1_60	B7I0127-BLK1 Method Blank 0.125	26-Sep-17	19:30:03
57 170926M1_61	B7I0128-BLK1 Method Blank 0.125	26-Sep-17	19:40:50
58 170926M1_62	B7I0127-MS1 Matrix Spike 0.1161	26-Sep-17	19:51:36
59 170926M1_63	B7I0127-MSD1 Matrix Spike Dup 0.11565	26-Sep-17	20:02:24
60 170926M1_64	B7I0128-MS1 Matrix Spike 0.125	26-Sep-17	20:13:10
61 170926M1_65	B7I0128-MSD1 Matrix Spike Dup 0.125	26-Sep-17	20:23:56
62 170926M1_66	1701187-01 GB-1 1	26-Sep-17	20:34:34
63 170926M1_67	B7I0124-BS1 OPR 1	26-Sep-17	20:45:13
64 170926M1_68	B7I0124-BS2 OPR 1	26-Sep-17	20:55:51
65 170926M1_69	B7I0124-BS3 OPR 1	26-Sep-17	21:06:30

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	170926M1_70	B7I0124-BS4 OPR 1	26-Sep-17	21:17:08
67	170926M1_71	1701265-35 GW-MW-8 0.11389	26-Sep-17	21:27:47
68	170926M1_72	1701265-36 DW-R-21SMW-DUP 0.11685	26-Sep-17	21:38:33
69	170926M1_73	1701265-37 DW-R-415BHR 0.11532	26-Sep-17	21:49:12
70	170926M1_74	1701265-38 GW-EB-WATER LEVEL 0.11063	26-Sep-17	21:59:58
71	170926M1_75	1701265-39 GW-FPC-5B 0.10809	26-Sep-17	22:10:44
72	170926M1_76	IPA	26-Sep-17	22:21:23
73	170926M1_77	ST170926M1-13 PFC CS0 17I2506	26-Sep-17	22:32:09
74	170926M1_78	IPA	26-Sep-17	22:42:56
75	170926M1_79	1701265-40 FB-DI-WATER 0.11434	26-Sep-17	22:53:34
76	170926M1_80	1701265-41 DW-EB-APPARTUS 0.11679	26-Sep-17	23:04:20
77	170926M1_81	1701265-42 DW-R-9BFL 0.11363	26-Sep-17	23:14:59
78	170926M1_82	1701265-43 GW-AE-3B 0.11207	26-Sep-17	23:25:55
79	170926M1_83	1701265-49 DW-R-25FW 0.11237	26-Sep-17	23:36:43
80	170926M1_84	1701265-50 GW-FPC-3A 0.11653	26-Sep-17	23:47:30
81	170926M1_85	1701265-51 GW-FPC-11B 0.11147	26-Sep-17	23:58:08
82	170926M1_86	1701265-52 GW-GZ-105 0.11455	27-Sep-17	00:08:47
83	170926M1_87	1701265-53 GW-GZ-105-DUP 0.11181	27-Sep-17	00:19:25
84	170926M1_88	1701265-54 GW-FPC-3C 0.11716	27-Sep-17	00:30:03
85	170926M1_89	1701265-55 GW-FPC-11A 0.10712	27-Sep-17	00:40:48
86	170926M1_90	1701265-56 GW-FPC-3B 0.11821	27-Sep-17	00:51:43
87	170926M1_91	IPA	27-Sep-17	01:02:33
88	170926M1_92	ST170926M1-14 PFC CS3 17I2610	27-Sep-17	01:13:11
89	170926M1_93	IPA	27-Sep-17	01:23:58
90	170926M1_94	1701265-57 DW-R-178ALR 0.1168	27-Sep-17	01:34:44
91	170926M1_95	1701265-58 S-EB-SEDIMENT 0.10956	27-Sep-17	01:45:23
92	170926M1_96	1701265-59 GW-FPC-9A 0.11173	27-Sep-17	01:56:09
93	170926M1_97	1701265-60 SW-SW-5 0.125	27-Sep-17	02:06:47
94	170926M1_98	1701265-61 SW-SW-5-DUP 0.125	27-Sep-17	02:17:26
95	170926M1_99	1701265-62 GW-GZ-117 0.125	27-Sep-17	02:28:08
96	170926M1_100	1701265-63 GW-AE-2A 0.125	27-Sep-17	02:39:02
97	170926M1_101	1701265-64 GW-GZ-109 0.125	27-Sep-17	02:49:40
98	170926M1_102	1701265-65 DW-R-4ROD 0.125	27-Sep-17	03:00:27
99	170926M1_103	1701265-66 SW-SW-111 0.125	27-Sep-17	03:11:13

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
100	170926M1_104	1701265-67 GW-FPC-9B 0.125	27-Sep-17	03:21:52
101	170926M1_105	IPA	27-Sep-17	03:32:30
102	170926M1_106	ST170926M1-15 PFC CS3 17I2610	27-Sep-17	03:43:09
103	170926M1_107	IPA	27-Sep-17	03:53:55
104	170926M1_108	1701265-68 DW-R-9SMW 0.125	27-Sep-17	04:04:33
105	170926M1_109	1701265-69 GW-MW-9 0.125	27-Sep-17	04:15:21
106	170926M1_110	1701265-70 GW-AE-1B 0.125	27-Sep-17	04:26:25
107	170926M1_111	1701265-71 GW-AE-2B 0.125	27-Sep-17	04:37:21
108	170926M1_112	1701265-72 GW-MW-5D 0.125	27-Sep-17	04:48:12
109	170926M1_113	1701265-73 GW-MW-10 0.125	27-Sep-17	04:59:03
110	170926M1_114	1701265-74 GW-MW-4 0.125	27-Sep-17	05:09:49
111	170926M1_115	1701265-75 GW-MW-4 DUP 0.125	27-Sep-17	05:20:27
112	170926M1_116	1701265-76 DW-R-16SMW 0.125	27-Sep-17	05:31:06
113	170926M1_117	1701265-77 SW-SW-103 0.125	27-Sep-17	05:41:52
114	170926M1_118	IPA	27-Sep-17	05:52:30
115	170926M1_119	ST170926M1-16 PFC CS3 17I2610	27-Sep-17	06:03:17
116	170926M1_120	IPA	27-Sep-17	06:14:03
117	170926M1_121	1701265-78 GW-AE-1A 0.125	27-Sep-17	06:24:42
118	170926M1_122	1701265-82 DW-R-339BHR 0.125	27-Sep-17	06:35:20
119	170926M1_123	Kyle tester 17I2632	27-Sep-17	06:45:58
120	170926M1_124	IPA	27-Sep-17	06:56:45
121	170926M1_125	ST170926M1-17 PFC CS3 17I2610	27-Sep-17	07:07:23
122	170926M1_126	IPA	27-Sep-17	07:18:10

LC Calibration Standards Review Checklist 04

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
<u>STP0026M1-11</u>	<u>LMH</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u> -12</u>	<u>LMH</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u> -B</u>	<u>LMH</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <u>(A)</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u> -14</u>	<u>LMH</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u> -15</u>	<u>LMH</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u> -16</u>	<u>LMH</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u> -17</u>	<u>LMH</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u> </u>	<u>LMH</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u> </u>	<u>LMH</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u> </u>	<u>LMH</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NA

Full Mass Cal. Date: 6/21/17

Run Log Present:

of Samples per Sequence Checked:

Reviewed By: JA 9/27/2017
 Initials/Date

Comments:
Full
(A) 6:2 FTS < 70%.

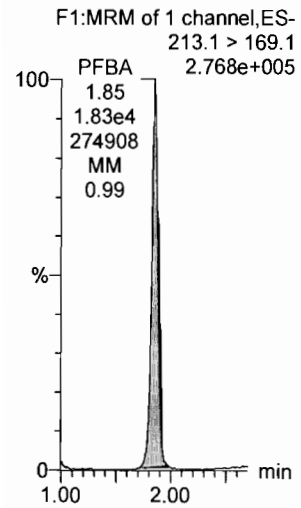
Dataset: U:\Q4.PRO\results\170926M1\170926M1-38.qld

Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

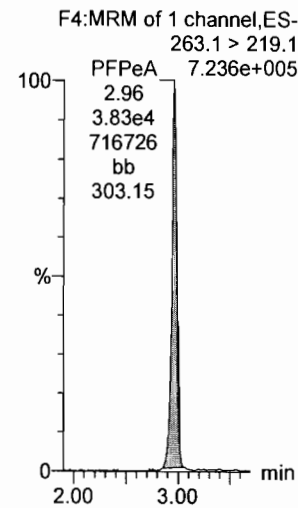
Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 1712509, Description: PFC CS3 1712509

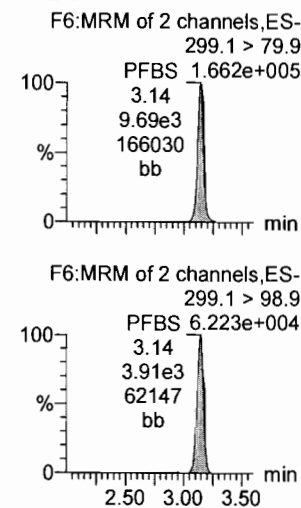
PFBA



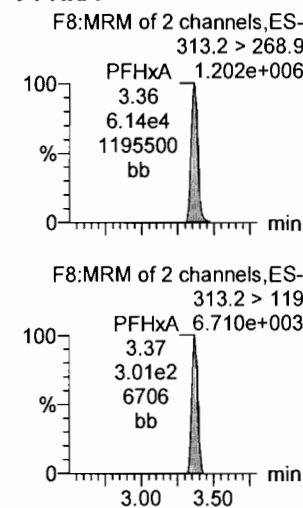
PFPeA



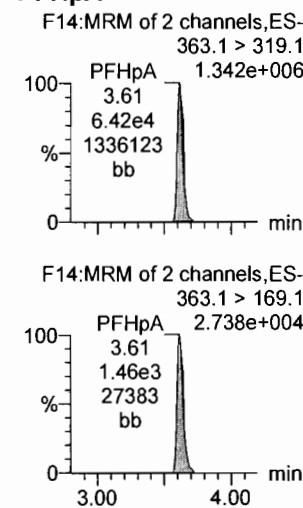
PFBS



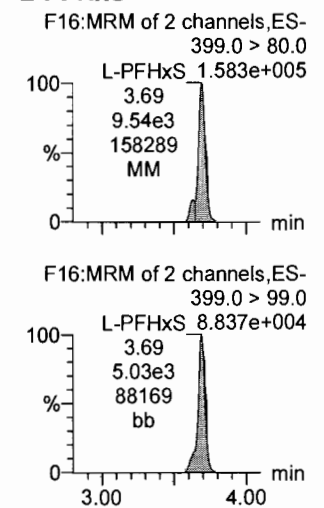
PFHxA



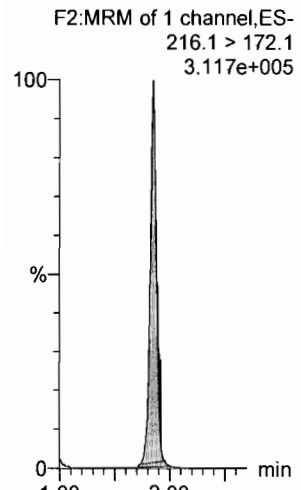
PFHpA



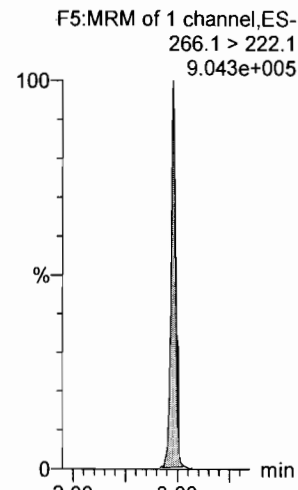
L-PFHxS



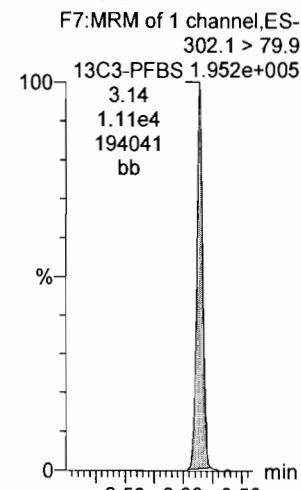
13C3-PFBA



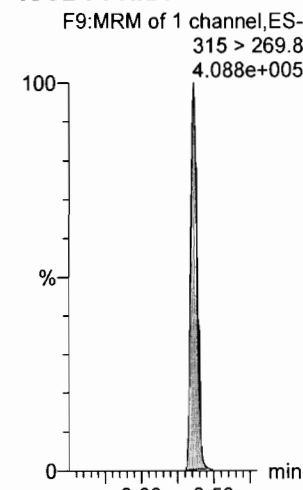
13C3-PFPeA



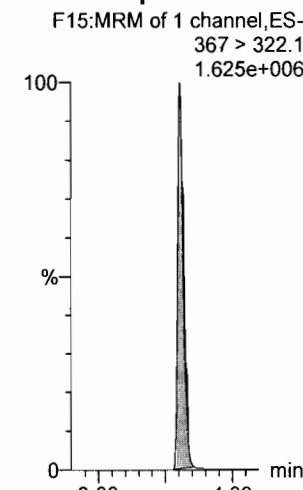
13C3-PFBS



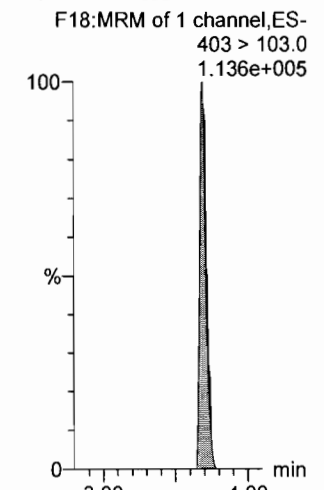
13C2-PFHxA



13C4-PFHpA



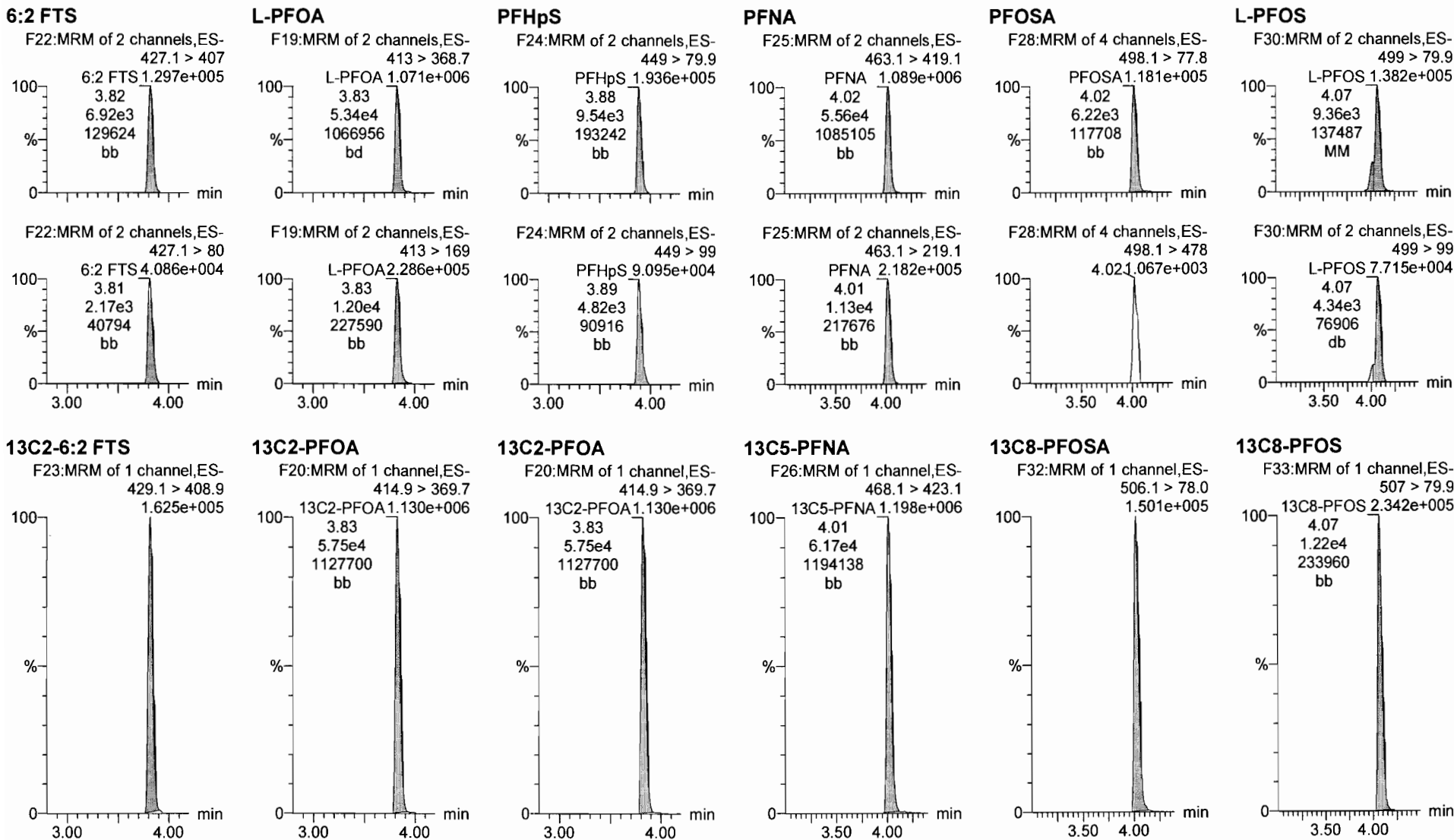
18O2-PFHxS



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Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 17I2509, Description: PFC CS3 17I2509

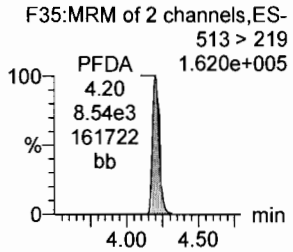
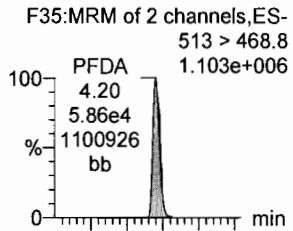


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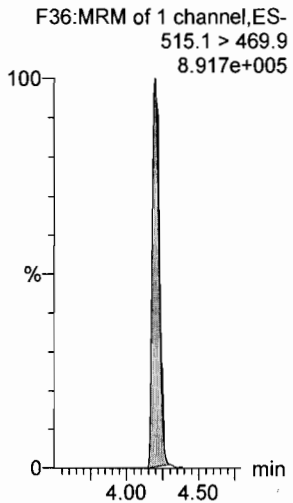
Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 1712509, Description: PFC CS3 1712509

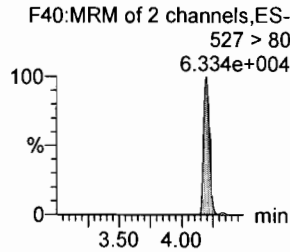
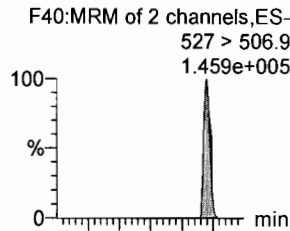
PFDA



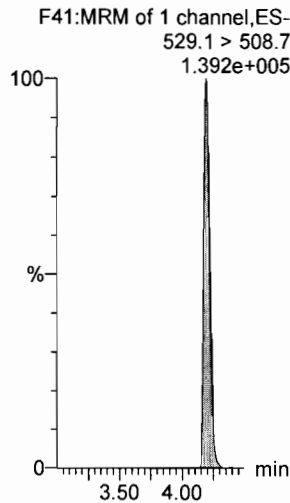
13C2-PFDA



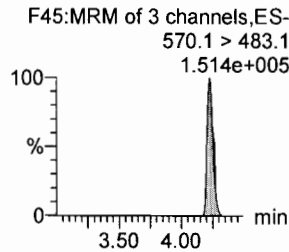
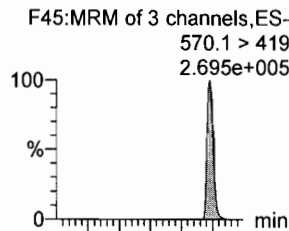
8:2 FTS



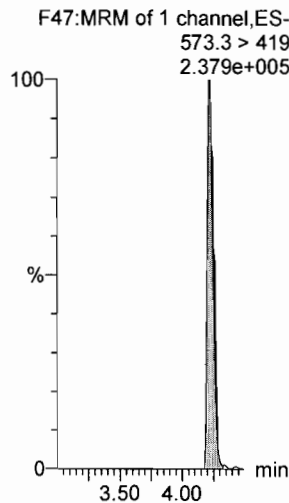
13C2-8:2 FTS



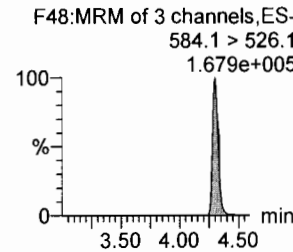
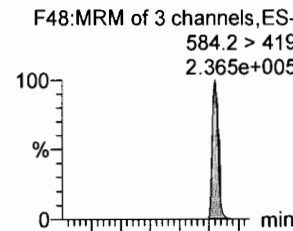
N-MeFOSAA



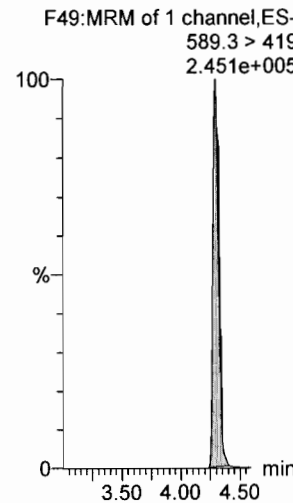
d3-N-MeFOSAA



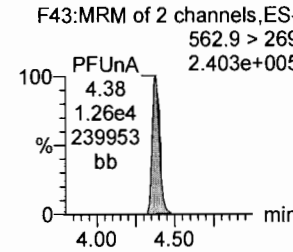
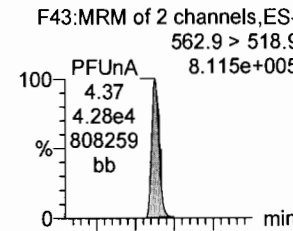
N-EtFOSAA



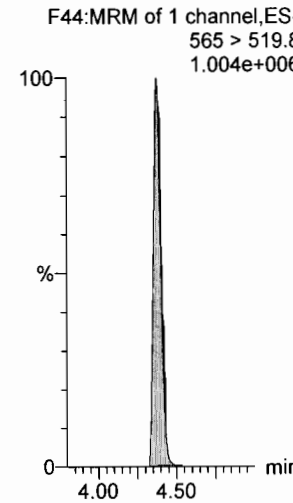
d5-N-EtFOSAA



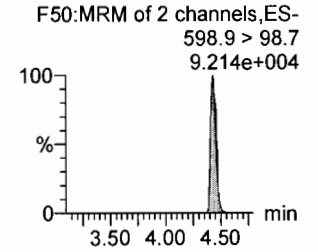
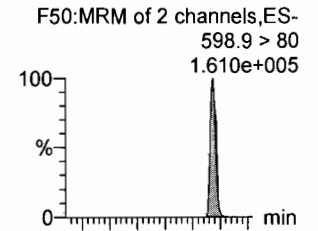
PFUnA



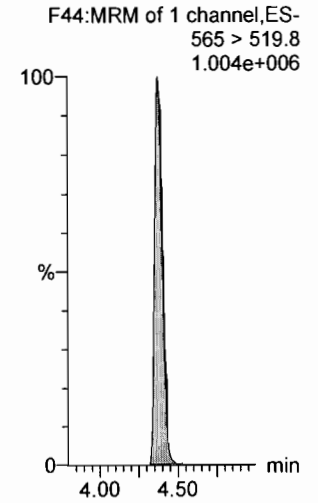
13C2-PFUnA



PFDS



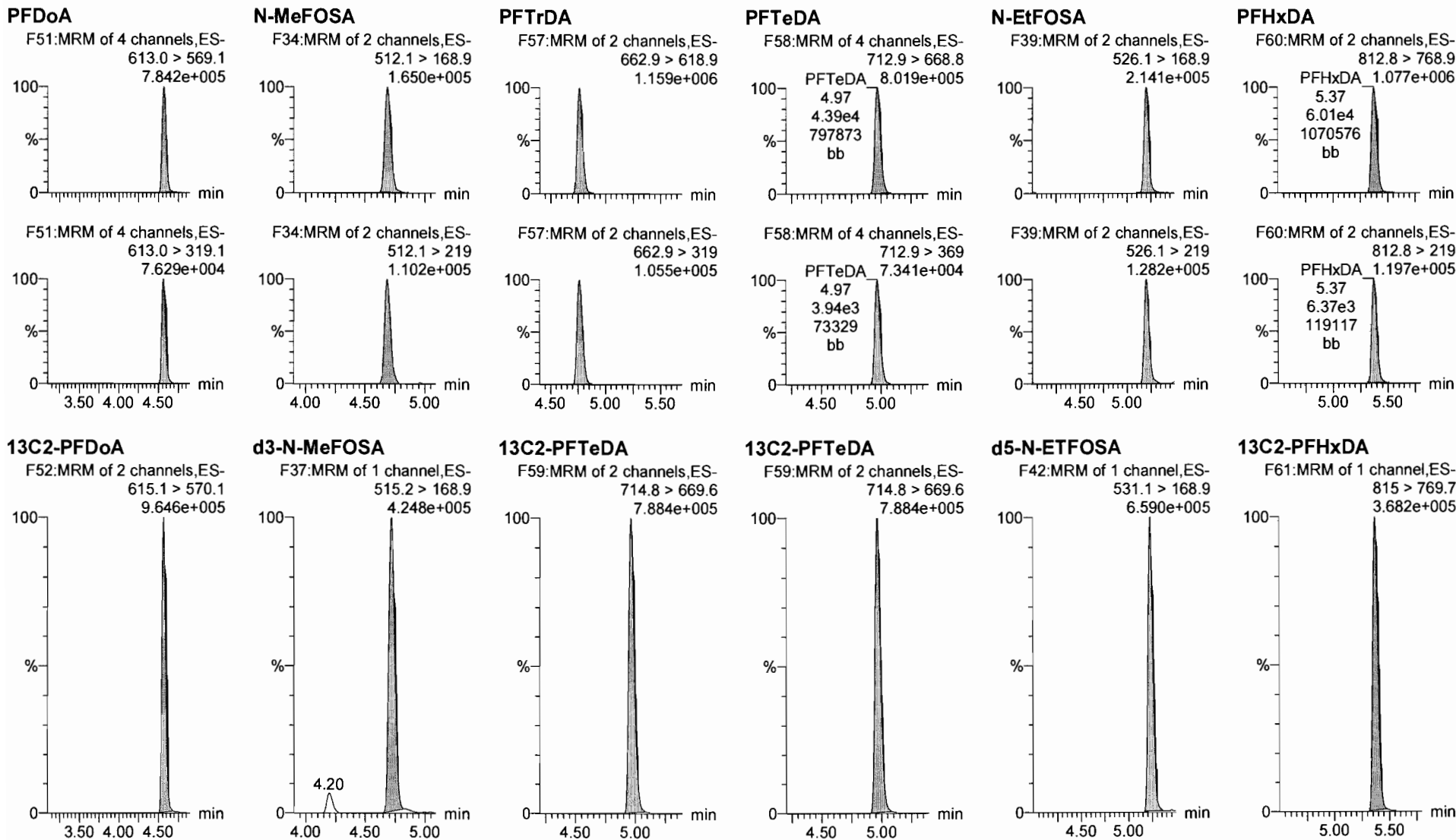
13C2-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-38.qld

Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

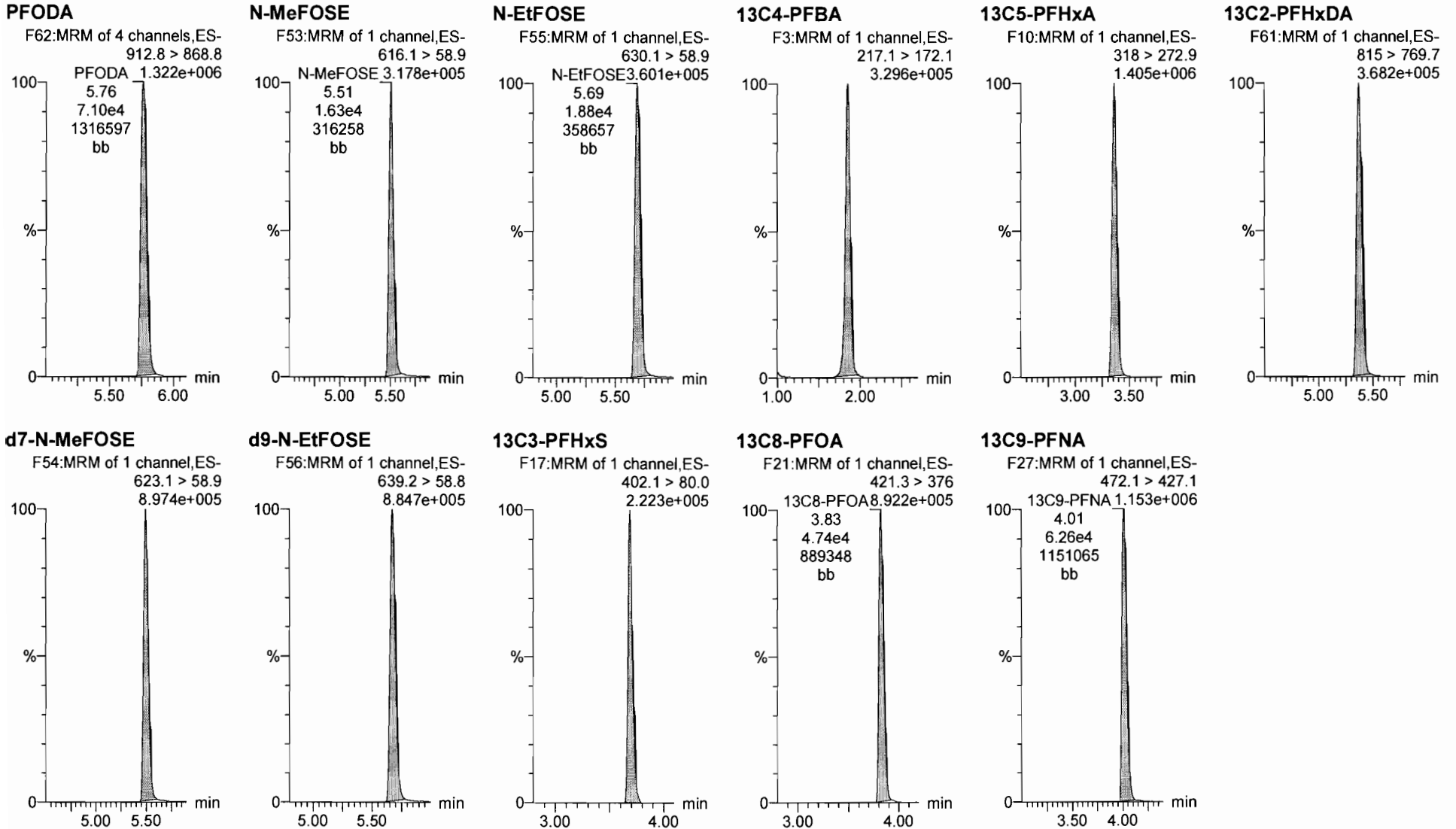
Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 17I2509, Description: PFC CS3 17I2509



Dataset: U:\Q4.PRO\results\170926M1\170926M1-38.qld

Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 17I2509, Description: PFC CS3 17I2509

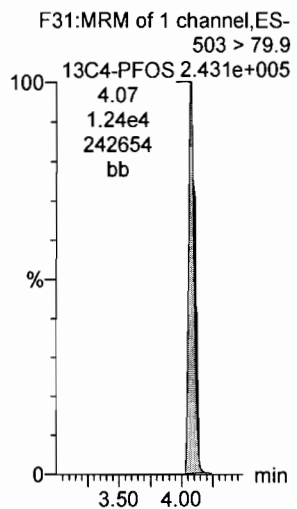


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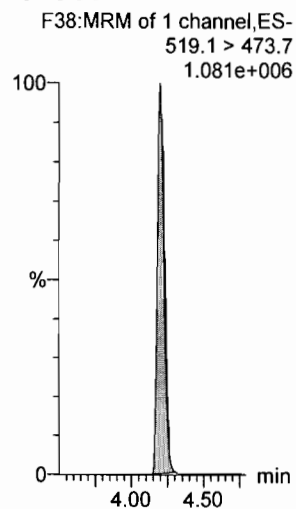
Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 1712509, Description: PFC CS3 1712509

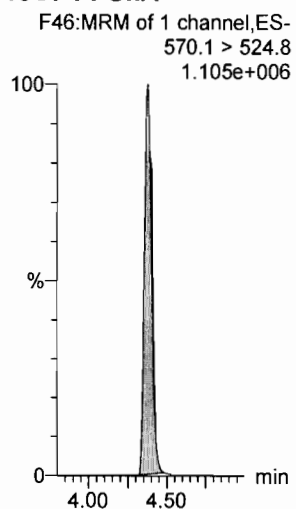
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-52.qld

Last Altered: Wednesday, September 27, 2017 12:15:10 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 17I2509, Description: PFC CS3 17I2509

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.60e4	1.82e4		1.88	1.93	11.0	9.44	94.4
2	2 PFPeA	263.1 > 219.1	3.66e4	4.53e4		2.98	2.99	10.1	9.47	94.7
3	3 PFBS	299.1 > 79.9	9.31e3	1.05e4		3.17	3.17	11.0	10.6	105.6
4	4 PFHxA	313.2 > 268.9	6.22e4	2.03e4		3.37	3.38	15.3	9.86	98.6
5	5 PFHpA	363.1 > 319.1	6.50e4	7.79e4		3.63	3.65	10.4	10.2	101.9
6	6 L-PFHxS	399.0 > 80.0	9.12e3	4.69e3		3.71	3.72	24.3	10.3	103.4
7	8 6:2 FTS	427.1 > 407	7.13e3	8.67e3		3.84	3.85	10.3	8.88	88.8
8	9 L-PFOA	413 > 368.7	4.71e4	5.70e4		3.84	3.85	10.3	9.51	95.1
9	11 PFHpS	449 > 79.9	8.35e3	5.70e4		3.90	3.92	1.83	8.07	80.7
10	12 PFNA	463.1 > 419.1	4.46e4	4.89e4		4.03	4.04	11.4	10.3	102.6
11	13 PFOSA	498.1 > 77.8	5.10e3	6.13e3		4.04	4.05	10.4	9.36	93.6
12	14 L-PFOS	499 > 79.9	1.00e4	1.26e4		4.08	4.10	9.96	9.33	93.3
13	16 PFDA	513 > 468.8	5.81e4	4.98e4		4.21	4.22	14.6	9.82	98.2
14	17 8:2 FTS	527 > 506.9	8.59e3	7.37e3		4.21	4.22	14.6	8.94	89.4
15	18 N-MeFOSAA	570.1 > 419	1.56e4	1.20e4		4.24	4.25	211	9.28	92.8
16	19 N-EiFOSAA	584.2 > 419	1.21e4	1.18e4		4.32	4.33	167	10.3	103.0
17	20 PFUnA	562.9 > 518.9	4.43e4	4.95e4		4.39	4.40	11.2	11.2	112.1
18	21 PFDS	598.9 > 80	9.99e3	4.95e4		4.45	4.45	2.52	11.5	114.6
19	22 PFDoA	613.0 > 569.1	5.67e4	5.77e4		4.59	4.59	12.3	10.1	101.4
20	23 N-MeFOSA	512.1 > 168.9	8.48e3	2.07e4		4.70	4.82	61.4	53.5	106.9
21	24 PFTTrDA	662.9 > 618.9	6.25e4	5.77e4		4.78	4.79	13.5	8.65	86.5
22	25 PFTeDA	712.9 > 668.8	4.55e4	4.49e4		4.99	4.99	12.6	9.07	90.7
23	26 N-EiFOSA	526.1 > 168.9	1.02e4	3.10e4		5.20	5.30	49.3	51.8	103.6
24	27 PFHxDA	812.8 > 768.9	5.85e4	1.96e4		5.40	5.39	15.0	9.52	95.2
25	28 PFODA	912.8 > 868.8	7.15e4	1.96e4		5.79	5.77	18.3	11.2	112.3
26	29 N-MeFOSE	616.1 > 58.9	1.24e4	3.50e4		5.50	5.50	53.2	48.2	96.4
27	30 N-EiFOSE	630.1 > 58.9	1.37e4	3.46e4		5.68	5.69	59.3	48.6	97.1
28	31 13C3-PFBA	216.1 > 172.1	1.82e4	2.05e4	0.890	1.88	1.93	11.1	12.5	99.6
29	32 13C3-PFPeA	266.1 > 222.1	4.53e4	6.87e4	0.236	2.98	2.99	3.30	14.0	111.8
30	33 13C3-PFBS	302.1 > 79.9	1.05e4	6.87e4	0.056	3.17	3.16	0.768	13.7	109.9
31	Work Order 170926M1-52	315 > 269.8	2.03e4	6.87e4	0.283	3.37	3.38	1.48	5.22	104.4

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9/27/2017

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Dataset: U:\Q4.PRO\results\170926M1\170926M1-52.qld

Last Altered: Wednesday, September 27, 2017 12:15:10 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 17I2509, Description: PFC CS3 17I2509

#	Name	Trace	Area	IS Area	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec	
32	35	13C4-PFHpA	367 > 322.1	7.79e4	6.87e4	0.499	3.63	3.65	5.67	11.4	90.9
33	36	18O2-PFHxS	403 > 103.0	4.69e3	9.19e3	0.482	3.71	3.72	6.39	13.2	105.9
34	37	13C2-6:2 FTS	429.1 > 408.9	8.67e3	5.04e4	0.183	3.84	3.84	2.15	11.7	93.9
35	38	13C2-PFOA	414.9 > 369.7	5.70e4	5.04e4	1.158	3.84	3.85	14.1	12.2	97.7
36	39	13C5-PFNA	468.1 > 423.1	4.89e4	5.89e4	0.888	4.03	4.04	10.4	11.7	93.6
37	40	13C8-PFOSA	506.1 > 78.0	6.13e3	5.04e4	0.143	4.04	4.05	1.52	10.7	85.2
38	41	13C8-PFOS	507 > 79.9	1.26e4	1.18e4	1.013	4.08	4.10	13.3	13.1	105.2
39	42	13C2-PFDA	515.1 > 469.9	4.98e4	5.80e4	0.876	4.21	4.22	10.7	12.3	98.2
40	43	13C2-8:2 FTS	529.1 > 508.7	7.37e3	5.80e4	0.148	4.21	4.21	1.59	10.8	86.1
41	44	d3-N-MeFOSAA	573.3 > 419	1.20e4	5.04e4	0.017	4.24	4.25	2.98	175	107.4
42	45	d5-N-EtFOSAA	589.3 > 419	1.18e4	5.04e4	0.019	4.32	4.32	2.93	157	96.8
43	46	13C2-PFUnA	565 > 519.8	4.95e4	5.04e4	0.959	4.39	4.40	12.3	12.8	102.4
44	47	13C2-PFDoA	615.1 > 570.1	5.77e4	5.04e4	1.003	4.59	4.59	14.3	14.3	114.1
45	48	d3-N-MeFOSA	515.2 > 168.9	2.07e4	5.04e4	0.041	4.70	4.85	5.14	124	82.6
46	49	13C2-PFTeDA	714.8 > 669.6	4.49e4	5.04e4	0.716	4.99	4.99	11.1	15.5	124.4
47	50	d5-N-ETFOSA	531.1 > 168.9	3.10e4	5.04e4	0.063	5.20	5.32	7.69	121	80.9
48	51	13C2-PFHxDA	815 > 769.7	1.96e4	5.04e4	0.892	5.40	5.39	4.85	5.43	108.6
49	52	d7-N-MeFOSE	623.1 > 58.9	3.50e4	5.04e4	0.075	5.50	5.49	8.68	115	76.6
50	53	d9-N-EtFOSE	639.2 > 58.8	3.46e4	5.04e4	0.076	5.68	5.67	8.59	112	74.9
51	54	13C4-PFBA	217.1 > 172.1	2.05e4	2.05e4	1.000	1.88	1.92	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	6.87e4	6.87e4	1.000	3.37	3.38	5.00	5.00	100.0
53	56	13C3-PFHxS	402.1 > 80.0	9.19e3	9.19e3	1.000	3.71	3.72	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	5.04e4	5.04e4	1.000	3.84	3.85	12.5	12.5	100.0
55	58	13C9-PFNA	472.1 > 427.1	5.89e4	5.89e4	1.000	4.03	4.04	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	1.18e4	1.18e4	1.000	4.08	4.10	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	5.80e4	5.80e4	1.000	4.21	4.22	12.5	12.5	100.0
58	61	13C7-PFUnA	570.1 > 524.8	5.04e4	5.04e4	1.000	4.39	4.40	12.5	12.5	100.0

SD-150



Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:11:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFBA

Name	ID	Acq.Date	Acq.Time
1 170926M1_5	IPA	26-Sep-17	09:18:26
2 170926M1_6	ST170926M1-1 PFC CS-2 17I2504	26-Sep-17	09:34:33
3 170926M1_7	ST170926M1-2 PFC CS-1 17I2505	26-Sep-17	09:56:46
4 170926M1_8	ST170926M1-3 PFC CS0 17I2506	26-Sep-17	10:09:38
5 170926M1_9	ST170926M1-4 PFC CS1 17I2507	26-Sep-17	10:20:25
6 170926M1_10	ST170926M1-5 PFC CS2 17I2508	26-Sep-17	10:31:03
7 170926M1_11	ST170926M1-6 PFC CS3 17I2509	26-Sep-17	10:41:42
8 170926M1_12	ST170926M1-7 PFC CS4 17I2510	26-Sep-17	10:52:20
9 170926M1_13	ST170926M1-8 PFC CS5 17I2511	26-Sep-17	11:02:58
10 170926M1_14	ST170926M1-9 PFC CS6 17I2512	26-Sep-17	11:13:37
11 170926M1_15	ST170926M1-10 PFC CS7 17I2513	26-Sep-17	11:24:23
12 170926M1_16	IPA	26-Sep-17	11:35:02
13 170926M1_17	ICV170926M1-1 PFC ICV 17I2514	26-Sep-17	11:45:48
14 170926M1_18	B7I0074-BS1 OPR 0.125	26-Sep-17	11:56:37
15 170926M1_19	B7I0105-BS1 OPR 0.125	26-Sep-17	12:07:32
16 170926M1_20	IPA	26-Sep-17	12:18:42
17 170926M1_21	B7I0074-BLK1 Method Blank 0.125	26-Sep-17	12:29:28
18 170926M1_22	B7I0105-BLK1 Method Blank 0.125	26-Sep-17	12:40:06
19 170926M1_23	B7I0105-MS1 Matrix Spike 0.125	26-Sep-17	12:50:45
20 170926M1_24	B7I0105-MSD1 Matrix Spike Dup 0.125	26-Sep-17	13:01:31
21 170926M1_25	1701222-01 RI17-EB1-090817 0.125	26-Sep-17	13:12:18
22 170926M1_26	1701222-02 VAS-RI17-B23 (105-107FT) 0.125	26-Sep-17	13:23:04
23 170926M1_27	1701222-04 VAS-RI17-B22 (111-113FT) 0.125	26-Sep-17	13:33:42
24 170926M1_28	1701222-05 VAS-RI17-B22 (111-113FT) DUP ...	26-Sep-17	13:44:29
25 170926M1_29	1701267-01 Lodge Sink 0.125	26-Sep-17	13:55:07
26 170926M1_30	1701270-01 Anchorage (420-126505-1) 0.125	26-Sep-17	14:05:46
27 170926M1_31	1701270-02 Field Blank (PFAS) (420-126505-...	26-Sep-17	14:17:06
28 170926M1_32	1701279-01 GR-OF-20170918 0.125	26-Sep-17	14:28:46
29 170926M1_33	1701279-02 MH-117N-20170918 0.125	26-Sep-17	14:40:21
30 170926M1_34	1701279-03 MH-117T-20170918 0.125	26-Sep-17	14:51:00
31 170926M1_35	1701279-04 MH-118.5N-20170918 0.125	26-Sep-17	15:01:50

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:11:37 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170926M1_36	1701279-05 MH-118.5T-20170918 0.125	26-Sep-17	15:12:33
33	170926M1_37	IPA	26-Sep-17	15:23:12
34	170926M1_38	ST170926M1-11 PFC CS3 1712509	26-Sep-17	15:33:50
35	170926M1_39	IPA	26-Sep-17	15:44:29
36	170926M1_40	1701279-06 MH-121.5N-20170918 0.125	26-Sep-17	15:55:18
37	170926M1_41	1701279-07 MH-121.5T-20170918 0.125	26-Sep-17	16:06:02
38	170926M1_42	1701279-08 WEST DITCH IN-20170918 0.125	26-Sep-17	16:17:01
39	170926M1_43	1701279-09 DUP01-20170918 0.125	26-Sep-17	16:28:13
40	170926M1_44	1701279-10 MH-140-BOTTOM 0.125	26-Sep-17	16:38:53
41	170926M1_45	1701279-11 MH-140N-20170918 0.125	26-Sep-17	16:49:38
42	170926M1_46	1701279-12 INTERCEPTOR SUMP-2017091...	26-Sep-17	17:00:16
43	170926M1_47	1701279-13 DUP03-20170918 0.125	26-Sep-17	17:10:55
44	170926M1_48	1701279-14 ROOF DRAIN-20170918 0.125	26-Sep-17	17:21:33
45	170926M1_49	1701279-15 SPRING-20170918 0.125	26-Sep-17	17:32:11
46	170926M1_50	1701279-16 FRB01-20170918 0.125	26-Sep-17	17:42:58
47	170926M1_51	IPA	26-Sep-17	17:53:36
48	170926M1_52	ST170926M1-12 PFC CS3 1712509	26-Sep-17	18:04:15
49	170926M1_53	IPA	26-Sep-17	18:15:01
50	170926M1_54	B7I0111-BS1 OPR 1	26-Sep-17	18:25:43
51	170926M1_55	B7I0127-BS1 OPR 0.125	26-Sep-17	18:36:27
52	170926M1_56	B7I0128-BS1 OPR 0.125	26-Sep-17	18:47:14
53	170926M1_57	IPA	26-Sep-17	18:58:00
54	170926M1_58	B7I0111-BLK1 Method Blank 1	26-Sep-17	19:08:39
55	170926M1_59	B7I0124-BLK1 Method Blank 1	26-Sep-17	19:19:25
56	170926M1_60	B7I0127-BLK1 Method Blank 0.125	26-Sep-17	19:30:03
57	170926M1_61	B7I0128-BLK1 Method Blank 0.125	26-Sep-17	19:40:50
58	170926M1_62	B7I0127-MS1 Matrix Spike 0.1161	26-Sep-17	19:51:36
59	170926M1_63	B7I0127-MSD1 Matrix Spike Dup 0.11565	26-Sep-17	20:02:24
60	170926M1_64	B7I0128-MS1 Matrix Spike 0.125	26-Sep-17	20:13:10
61	170926M1_65	B7I0128-MSD1 Matrix Spike Dup 0.125	26-Sep-17	20:23:56
62	170926M1_66	1701187-01 GB-1 1	26-Sep-17	20:34:34
63	170926M1_67	B7I0124-BS1 OPR 1	26-Sep-17	20:45:13
64	170926M1_68	B7I0124-BS2 OPR 1	26-Sep-17	20:55:51
65	170926M1_69	B7I0124-BS3 OPR 1	26-Sep-17	21:06:30

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	170926M1_70	B710124-BS4 OPR 1	26-Sep-17	21:17:08
67	170926M1_71	1701265-35 GW-MW-8 0.11389	26-Sep-17	21:27:47
68	170926M1_72	1701265-36 DW-R-21SMW-DUP 0.11685	26-Sep-17	21:38:33
69	170926M1_73	1701265-37 DW-R-415BHR 0.11532	26-Sep-17	21:49:12
70	170926M1_74	1701265-38 GW-EB-WATER LEVEL 0.11063	26-Sep-17	21:59:58
71	170926M1_75	1701265-39 GW-FPC-5B 0.10809	26-Sep-17	22:10:44
72	170926M1_76	IPA	26-Sep-17	22:21:23
73	170926M1_77	ST170926M1-13 PFC CS0 17I2506	26-Sep-17	22:32:09
74	170926M1_78	IPA	26-Sep-17	22:42:56
75	170926M1_79	1701265-40 FB-DI-WATER 0.11434	26-Sep-17	22:53:34
76	170926M1_80	1701265-41 DW-EB-APPARTUS 0.11679	26-Sep-17	23:04:20
77	170926M1_81	1701265-42 DW-R-9BFL 0.11363	26-Sep-17	23:14:59
78	170926M1_82	1701265-43 GW-AE-3B 0.11207	26-Sep-17	23:25:55
79	170926M1_83	1701265-49 DW-R-25FW 0.11237	26-Sep-17	23:36:43
80	170926M1_84	1701265-50 GW-FPC-3A 0.11653	26-Sep-17	23:47:30
81	170926M1_85	1701265-51 GW-FPC-11B 0.11147	26-Sep-17	23:58:08
82	170926M1_86	1701265-52 GW-GZ-105 0.11455	27-Sep-17	00:08:47
83	170926M1_87	1701265-53 GW-GZ-105-DUP 0.11181	27-Sep-17	00:19:25
84	170926M1_88	1701265-54 GW-FPC-3C 0.11716	27-Sep-17	00:30:03
85	170926M1_89	1701265-55 GW-FPC-11A 0.10712	27-Sep-17	00:40:48
86	170926M1_90	1701265-56 GW-FPC-3B 0.11821	27-Sep-17	00:51:43
87	170926M1_91	IPA	27-Sep-17	01:02:33
88	170926M1_92	ST170926M1-14 PFC CS3 17I2610	27-Sep-17	01:13:11
89	170926M1_93	IPA	27-Sep-17	01:23:58
90	170926M1_94	1701265-57 DW-R-178ALR 0.1168	27-Sep-17	01:34:44
91	170926M1_95	1701265-58 S-EB-SEDIMENT 0.10956	27-Sep-17	01:45:23
92	170926M1_96	1701265-59 GW-FPC-9A 0.11173	27-Sep-17	01:56:09
93	170926M1_97	1701265-60 SW-SW-5 0.125	27-Sep-17	02:06:47
94	170926M1_98	1701265-61 SW-SW-5-DUP 0.125	27-Sep-17	02:17:26
95	170926M1_99	1701265-62 GW-GZ-117 0.125	27-Sep-17	02:28:08
96	170926M1_100	1701265-63 GW-AE-2A 0.125	27-Sep-17	02:39:02
97	170926M1_101	1701265-64 GW-GZ-109 0.125	27-Sep-17	02:49:40
98	170926M1_102	1701265-65 DW-R-4ROD 0.125	27-Sep-17	03:00:27
99	170926M1_103	1701265-66 SW-SW-111 0.125	27-Sep-17	03:11:13

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:11:37 Pacific Daylight Time

Compound name: PFBA

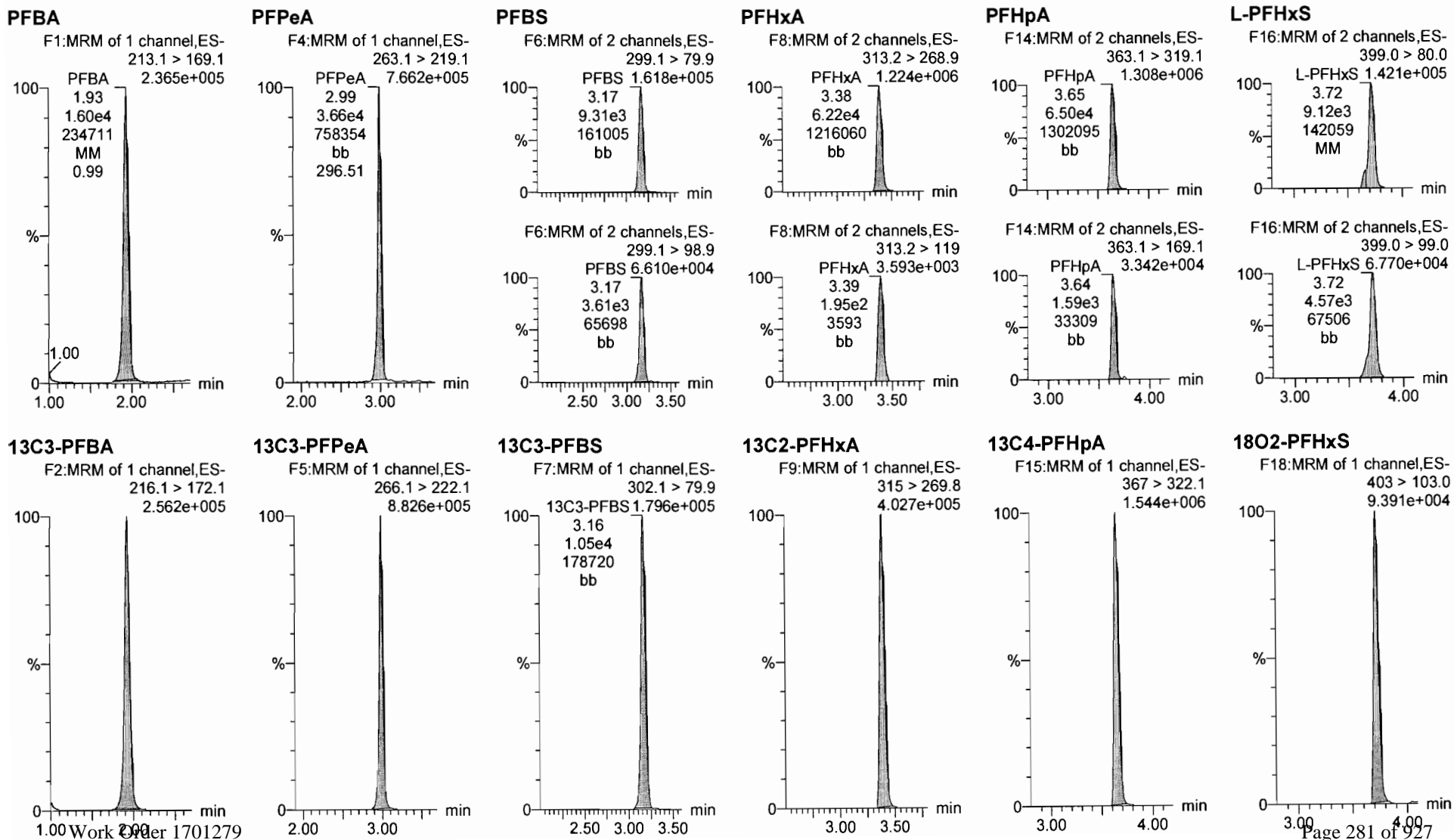
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100	170926M1_104	1701265-67 GW-FPC-9B 0.125	27-Sep-17 03:21:52
101	170926M1_105	IPA	27-Sep-17 03:32:30
102	170926M1_106	ST170926M1-15 PFC CS3 17I2610	27-Sep-17 03:43:09
103	170926M1_107	IPA	27-Sep-17 03:53:55
104	170926M1_108	1701265-68 DW-R-9SMW 0.125	27-Sep-17 04:04:33
105	170926M1_109	1701265-69 GW-MW-9 0.125	27-Sep-17 04:15:21
106	170926M1_110	1701265-70 GW-AE-1B 0.125	27-Sep-17 04:26:25
107	170926M1_111	1701265-71 GW-AE-2B 0.125	27-Sep-17 04:37:21
108	170926M1_112	1701265-72 GW-MW-5D 0.125	27-Sep-17 04:48:12
109	170926M1_113	1701265-73 GW-MW-10 0.125	27-Sep-17 04:59:03
110	170926M1_114	1701265-74 GW-MW-4 0.125	27-Sep-17 05:09:49
111	170926M1_115	1701265-75 GW-MW-4 DUP 0.125	27-Sep-17 05:20:27
112	170926M1_116	1701265-76 DW-R-16SMW 0.125	27-Sep-17 05:31:06
113	170926M1_117	1701265-77 SW-SW-103 0.125	27-Sep-17 05:41:52
114	170926M1_118	IPA	27-Sep-17 05:52:30
115	170926M1_119	ST170926M1-16 PFC CS3 17I2610	27-Sep-17 06:03:17
116	170926M1_120	IPA	27-Sep-17 06:14:03
117	170926M1_121	1701265-78 GW-AE-1A 0.125	27-Sep-17 06:24:42
118	170926M1_122	1701265-82 DW-R-339BHR 0.125	27-Sep-17 06:35:20
119	170926M1_123	Kyle tester 17I2632	27-Sep-17 06:45:58
120	170926M1_124	IPA	27-Sep-17 06:56:45
121	170926M1_125	ST170926M1-17 PFC CS3 17I2610	27-Sep-17 07:07:23
122	170926M1_126	IPA	27-Sep-17 07:18:10

Dataset: U:\Q4.PRO\results\170926M1\170926M1-52.qld

Last Altered: Wednesday, September 27, 2017 12:15:10 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

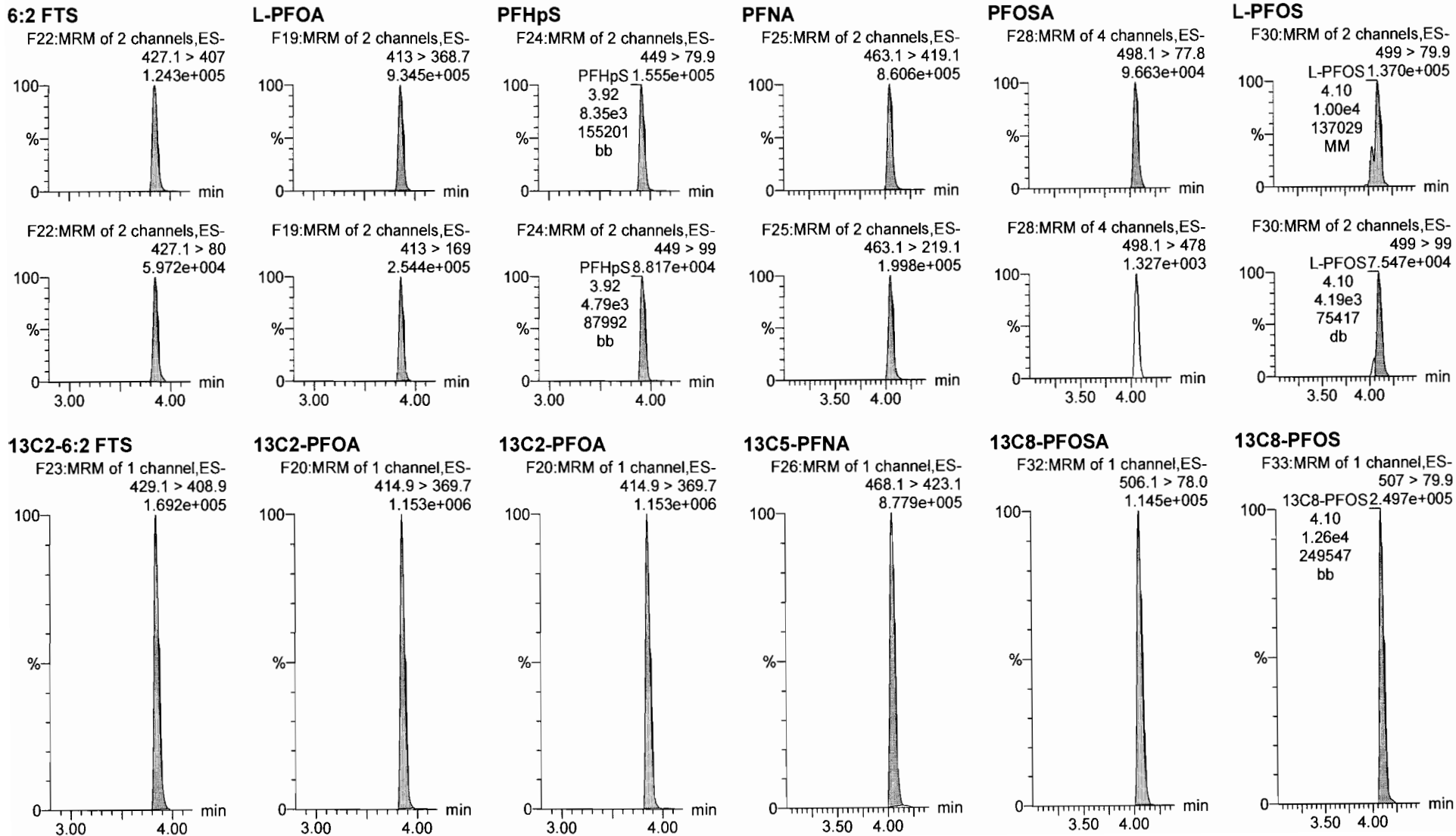
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Last Altered: Wednesday, September 27, 2017 12:15:10 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 17I2509, Description: PFC CS3 17I2509

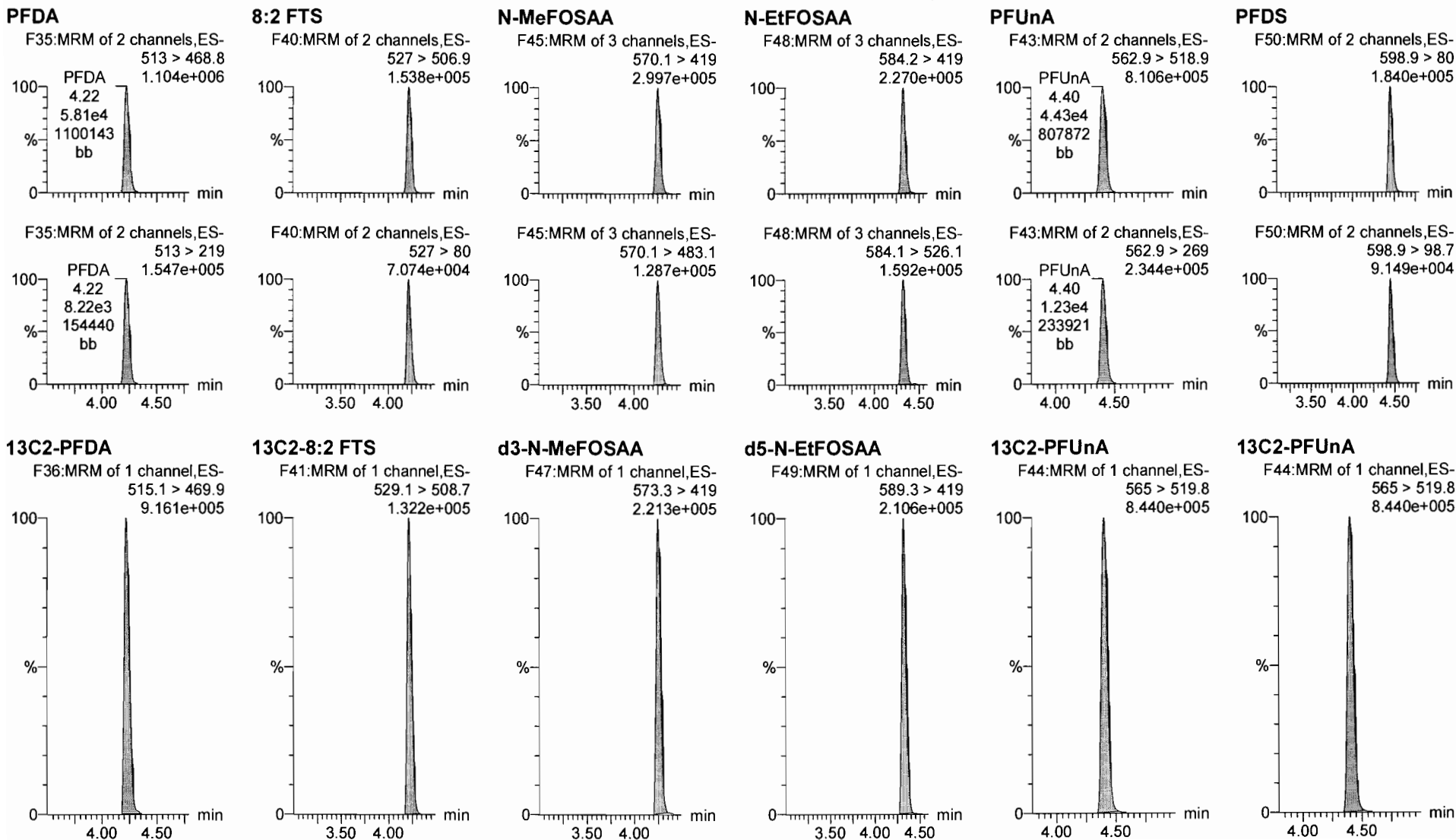


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Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

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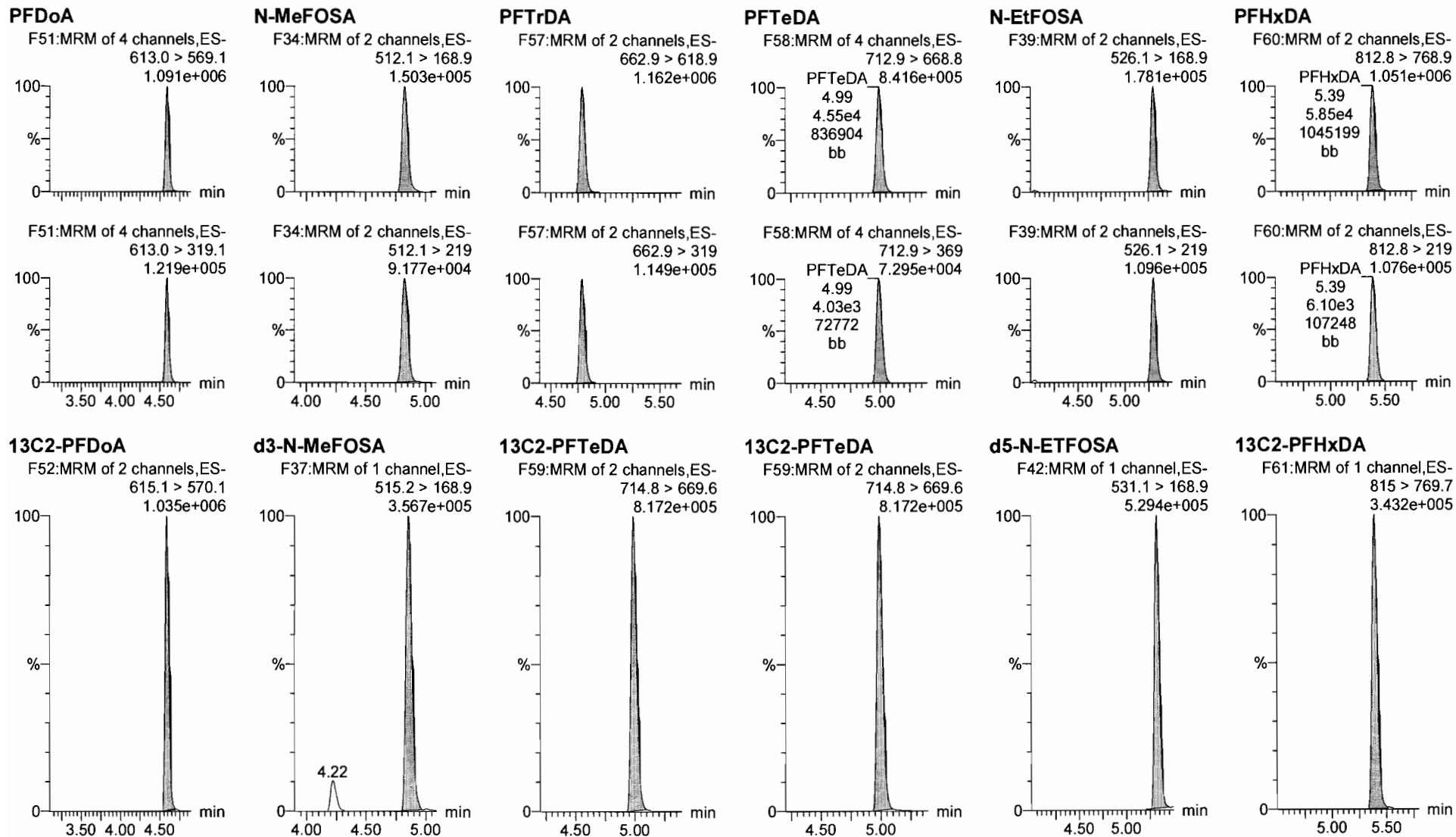


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Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 17I2509, Description: PFC CS3 17I2509

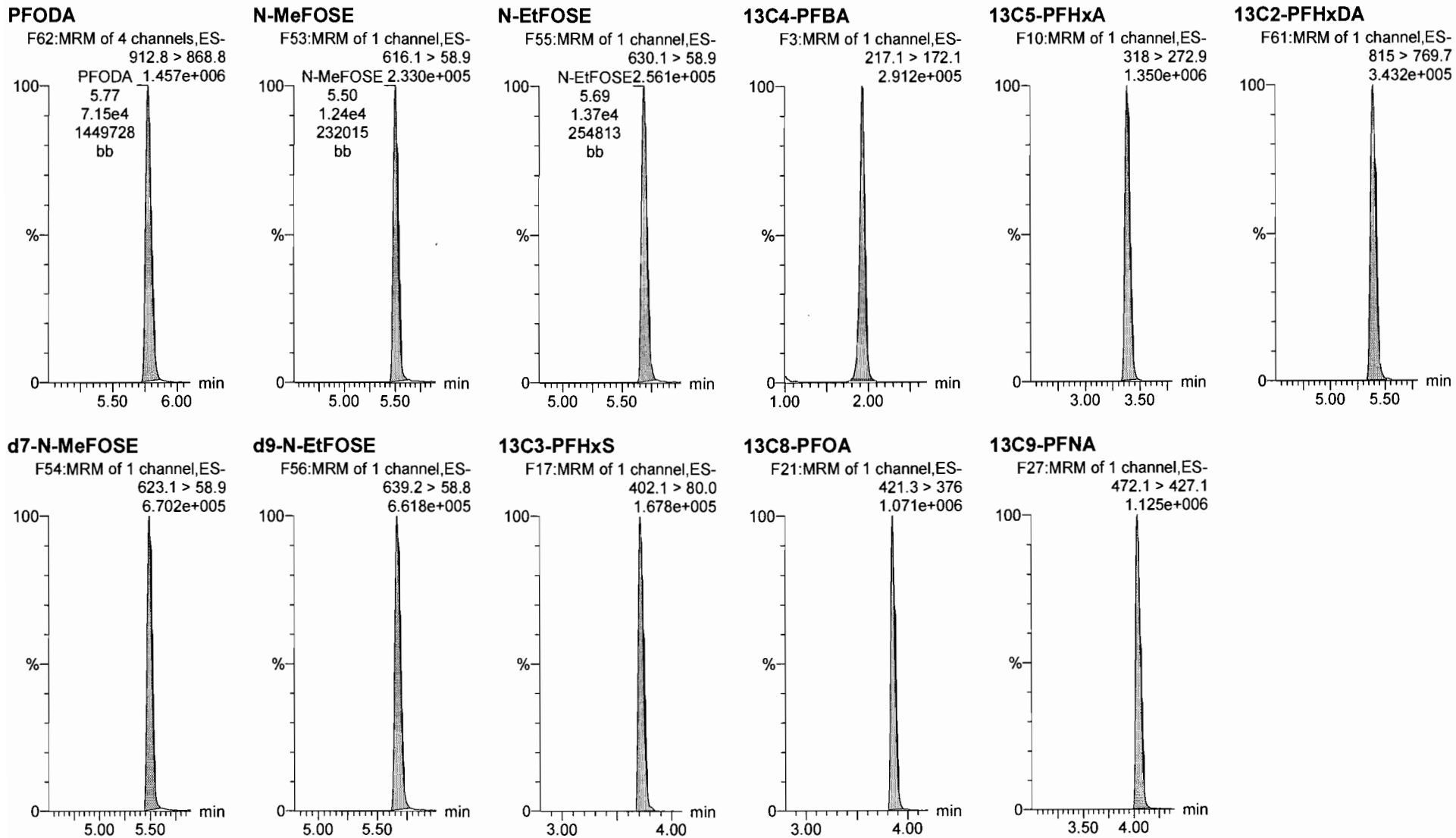


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Last Altered: Wednesday, September 27, 2017 12:15:10 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 1712509, Description: PFC CS3 1712509



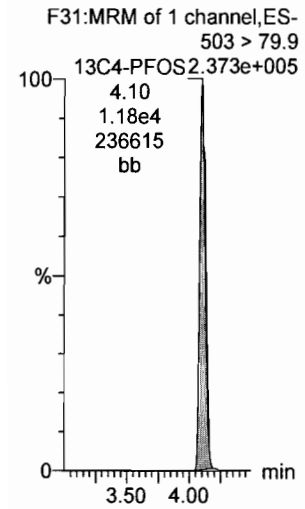
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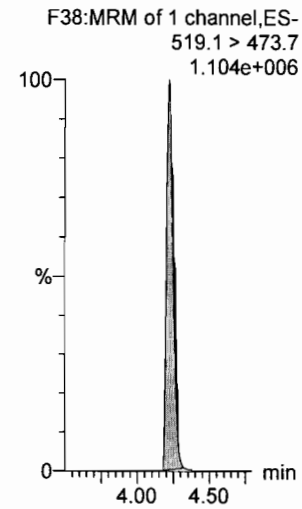
Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

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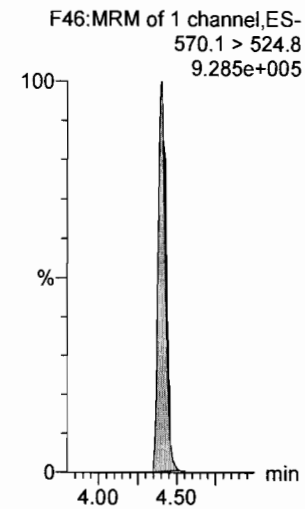
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:23:57 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:30:15 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_RS-9-29-17.mdb 29 Sep 2017 13:29:20

Calibration: 29 Sep 2017 15:23:57

Name: 170928M3_2, Date: 28-Sep-2017, Time: 17:54:38, ID: ST170928M3-1 PFC CS-2 1712809, Description: PFC CS-2 1712809

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-1 PFC CS-2 1712809	1.53e4	106.5	NO
2	2 13C5-PFHxA	ST170928M3-1 PFC CS-2 1712809	4.53e4	106.7	NO
3	3 13C3-PFHxS	ST170928M3-1 PFC CS-2 1712809	1.08e4	112.5	NO
4	4 13C8-PFOA	ST170928M3-1 PFC CS-2 1712809	5.36e4	107.4	NO
5	5 13C9-PFNA	ST170928M3-1 PFC CS-2 1712809	7.23e4	110.3	NO
6	6 13C4-PFOS	ST170928M3-1 PFC CS-2 1712809	1.20e4	106.8	NO
7	7 13C6-PFDA	ST170928M3-1 PFC CS-2 1712809	6.06e4	106.6	NO
8	8 13C7-PFUnA	ST170928M3-1 PFC CS-2 1712809	7.02e4	109.7	NO

Name: 170928M3_3, Date: 28-Sep-2017, Time: 18:05:24, ID: ST170928M3-2 PFC CS-1 1712810, Description: PFC CS-1 1712810

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-2 PFC CS-1 1712810	1.45e4	100.8	NO
2	2 13C5-PFHxA	ST170928M3-2 PFC CS-1 1712810	4.19e4	98.6	NO
3	3 13C3-PFHxS	ST170928M3-2 PFC CS-1 1712810	9.32e3	97.2	NO
4	4 13C8-PFOA	ST170928M3-2 PFC CS-1 1712810	5.13e4	102.8	NO
5	5 13C9-PFNA	ST170928M3-2 PFC CS-1 1712810	6.51e4	99.2	NO
6	6 13C4-PFOS	ST170928M3-2 PFC CS-1 1712810	1.07e4	95.0	NO
7	7 13C6-PFDA	ST170928M3-2 PFC CS-1 1712810	5.65e4	99.3	NO
8	8 13C7-PFUnA	ST170928M3-2 PFC CS-1 1712810	6.37e4	99.5	NO

Name: 170928M3_4, Date: 28-Sep-2017, Time: 18:16:11, ID: ST170928M3-3 PFC CS0 1712811, Description: PFC CS0 1712811

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-3 PFC CS0 1712811	1.58e4	109.6	NO
2	2 13C5-PFHxA	ST170928M3-3 PFC CS0 1712811	4.42e4	103.9	NO
3	3 13C3-PFHxS	ST170928M3-3 PFC CS0 1712811	1.03e4	107.5	NO
4	4 13C8-PFOA	ST170928M3-3 PFC CS0 1712811	5.84e4	117.2	NO
5	5 13C9-PFNA	ST170928M3-3 PFC CS0 1712811	7.75e4	118.2	NO
6	6 13C4-PFOS	ST170928M3-3 PFC CS0 1712811	1.28e4	114.0	NO
7	7 13C6-PFDA	ST170928M3-3 PFC CS0 1712811	6.44e4	113.2	NO
8	8 13C7-PFUnA	ST170928M3-3 PFC CS0 1712811	7.52e4	117.5	NO

Name: 170928M3_5, Date: 28-Sep-2017, Time: 18:26:58, ID: ST170928M3-4 PFC CS1 1712812, Description: PFC CS1 1712812

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-4 PFC CS1 1712812	1.67e4	116.0	NO
2	2 13C5-PFHxA	ST170928M3-4 PFC CS1 1712812	4.84e4	113.8	NO
3	3 13C3-PFHxS	ST170928M3-4 PFC CS1 1712812	1.04e4	108.0	NO
4	4 13C8-PFOA	ST170928M3-4 PFC CS1 1712812	5.63e4	112.9	NO
5	5 13C9-PFNA	ST170928M3-4 PFC CS1 1712812	7.55e4	115.2	NO
6	6 13C4-PFOS	ST170928M3-4 PFC CS1 1712812	1.27e4	112.8	NO
7	7 13C6-PFDA	ST170928M3-4 PFC CS1 1712812	6.56e4	115.4	NO
8	8 13C7-PFUnA	ST170928M3-4 PFC CS1 1712812	7.29e4	113.9	NO

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Name: 170928M3_6, Date: 28-Sep-2017, Time: 18:37:36, ID: ST170928M3-5 PFC CS2 1712813, Description: PFC CS2 1712813

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-5 PFC CS2 1712813	1.49e4	103.5	NO
2	2 13C5-PFHxA	ST170928M3-5 PFC CS2 1712813	4.21e4	99.1	NO
3	3 13C3-PFHxS	ST170928M3-5 PFC CS2 1712813	1.03e4	106.9	NO
4	4 13C8-PFOA	ST170928M3-5 PFC CS2 1712813	5.48e4	110.0	NO
5	5 13C9-PFNA	ST170928M3-5 PFC CS2 1712813	7.13e4	108.7	NO
6	6 13C4-PFOS	ST170928M3-5 PFC CS2 1712813	1.18e4	105.1	NO
7	7 13C6-PFDA	ST170928M3-5 PFC CS2 1712813	6.22e4	109.3	NO
8	8 13C7-PFUnA	ST170928M3-5 PFC CS2 1712813	7.01e4	109.5	NO

Name: 170928M3_7, Date: 28-Sep-2017, Time: 18:48:22, ID: ST170928M3-6 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-6 PFC CS3 1712814	1.67e4	116.3	NO
2	2 13C5-PFHxA	ST170928M3-6 PFC CS3 1712814	4.90e4	115.2	NO
3	3 13C3-PFHxS	ST170928M3-6 PFC CS3 1712814	9.94e3	103.6	NO
4	4 13C8-PFOA	ST170928M3-6 PFC CS3 1712814	5.63e4	112.9	NO
5	5 13C9-PFNA	ST170928M3-6 PFC CS3 1712814	7.19e4	109.7	NO
6	6 13C4-PFOS	ST170928M3-6 PFC CS3 1712814	1.21e4	107.6	NO
7	7 13C6-PFDA	ST170928M3-6 PFC CS3 1712814	6.22e4	109.3	NO
8	8 13C7-PFUnA	ST170928M3-6 PFC CS3 1712814	7.13e4	111.4	NO

Name: 170928M3_8, Date: 28-Sep-2017, Time: 18:59:01, ID: ST170928M3-7 PFC CS4 1712815, Description: PFC CS4 1712815

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-7 PFC CS4 1712815	1.44e4	100.1	NO
2	2 13C5-PFHxA	ST170928M3-7 PFC CS4 1712815	4.36e4	102.6	NO
3	3 13C3-PFHxS	ST170928M3-7 PFC CS4 1712815	1.02e4	106.6	NO
4	4 13C8-PFOA	ST170928M3-7 PFC CS4 1712815	5.17e4	103.6	NO
5	5 13C9-PFNA	ST170928M3-7 PFC CS4 1712815	7.02e4	107.0	NO
6	6 13C4-PFOS	ST170928M3-7 PFC CS4 1712815	1.18e4	105.3	NO
7	7 13C6-PFDA	ST170928M3-7 PFC CS4 1712815	6.03e4	106.0	NO
8	8 13C7-PFUnA	ST170928M3-7 PFC CS4 1712815	6.67e4	104.3	NO

Name: 170928M3_9, Date: 28-Sep-2017, Time: 19:09:47, ID: ST170928M3-8 PFC CS5 1712816, Description: PFC CS5 1712816

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-8 PFC CS5 1712816	1.29e4	89.7	NO
2	2 13C5-PFHxA	ST170928M3-8 PFC CS5 1712816	3.95e4	93.0	NO
3	3 13C3-PFHxS	ST170928M3-8 PFC CS5 1712816	9.18e3	95.7	NO
4	4 13C8-PFOA	ST170928M3-8 PFC CS5 1712816	4.38e4	87.8	NO
5	5 13C9-PFNA	ST170928M3-8 PFC CS5 1712816	5.62e4	85.8	NO
6	6 13C4-PFOS	ST170928M3-8 PFC CS5 1712816	1.07e4	95.7	NO
7	7 13C6-PFDA	ST170928M3-8 PFC CS5 1712816	5.09e4	89.4	NO
8	8 13C7-PFUnA	ST170928M3-8 PFC CS5 1712816	5.62e4	87.9	NO

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Name: 170928M3_10, Date: 28-Sep-2017, Time: 19:20:33, ID: ST170928M3-9 PFC CS6 1712817, Description: PFC CS6 1712817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-9 PFC CS6 1712817	1.27e4	88.3	NO
2	2 13C5-PFHxA	ST170928M3-9 PFC CS6 1712817	3.92e4	92.1	NO
3	3 13C3-PFHxS	ST170928M3-9 PFC CS6 1712817	8.25e3	86.0	NO
4	4 13C8-PFOA	ST170928M3-9 PFC CS6 1712817	4.02e4	80.6	NO
5	5 13C9-PFNA	ST170928M3-9 PFC CS6 1712817	5.17e4	78.8	NO
6	6 13C4-PFOS	ST170928M3-9 PFC CS6 1712817	9.68e3	86.3	NO
7	7 13C6-PFDA	ST170928M3-9 PFC CS6 1712817	4.65e4	81.8	NO
8	8 13C7-PFUnA	ST170928M3-9 PFC CS6 1712817	5.12e4	80.0	NO

Name: 170928M3_11, Date: 28-Sep-2017, Time: 19:31:12, ID: ST170928M3-10 PFC CS7 1712818, Description: PFC CS7 1712818

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-10 PFC CS7 1712818	9.99e3	69.4	NO
2	2 13C5-PFHxA	ST170928M3-10 PFC CS7 1712818	3.20e4	75.2	NO
3	3 13C3-PFHxS	ST170928M3-10 PFC CS7 1712818	7.30e3	76.1	NO
4	4 13C8-PFOA	ST170928M3-10 PFC CS7 1712818	3.23e4	64.8	NO
5	5 13C9-PFNA	ST170928M3-10 PFC CS7 1712818	4.39e4	67.0	NO
6	6 13C4-PFOS	ST170928M3-10 PFC CS7 1712818	8.02e3	71.5	NO
7	7 13C6-PFDA	ST170928M3-10 PFC CS7 1712818	3.97e4	69.8	NO
8	8 13C7-PFUnA	ST170928M3-10 PFC CS7 1712818	4.24e4	66.3	NO

Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ICV170928M3-1 PFC ICV 1712808	1.50e4	104.3	NO
2	2 13C5-PFHxA	ICV170928M3-1 PFC ICV 1712808	4.30e4	101.0	NO
3	3 13C3-PFHxS	ICV170928M3-1 PFC ICV 1712808	9.98e3	104.0	NO
4	4 13C8-PFOA	ICV170928M3-1 PFC ICV 1712808	5.12e4	102.7	NO
5	5 13C9-PFNA	ICV170928M3-1 PFC ICV 1712808	6.55e4	99.9	NO
6	6 13C4-PFOS	ICV170928M3-1 PFC ICV 1712808	1.11e4	98.7	NO
7	7 13C6-PFDA	ICV170928M3-1 PFC ICV 1712808	5.76e4	101.3	NO
8	8 13C7-PFUnA	ICV170928M3-1 PFC ICV 1712808	6.52e4	101.9	NO

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Name: 170928M3_14, Date: 28-Sep-2017, Time: 20:03:15, ID: B7I0135-BS1 OPR 0.25, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0135-BS1 OPR 0.25	9.87e3	68.6	NO
2	2 13C5-PFHxA	B7I0135-BS1 OPR 0.25	3.31e4	77.9	NO
3	3 13C3-PFHxS	B7I0135-BS1 OPR 0.25	7.40e3	77.1	NO
4	4 13C8-PFOA	B7I0135-BS1 OPR 0.25	3.04e4	61.0	NO
5	5 13C9-PFNA	B7I0135-BS1 OPR 0.25	4.06e4	61.9	NO
6	6 13C4-PFOS	B7I0135-BS1 OPR 0.25	8.81e3	78.5	NO
7	7 13C6-PFDA	B7I0135-BS1 OPR 0.25	3.59e4	63.0	NO
8	8 13C7-PFUnA	B7I0135-BS1 OPR 0.25	4.10e4	64.1	NO

Name: 170928M3_15, Date: 28-Sep-2017, Time: 20:13:54, ID: B7I0136-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0136-BS1 OPR 0.125	1.23e4	85.3	NO
2	2 13C5-PFHxA	B7I0136-BS1 OPR 0.125	3.86e4	90.7	NO
3	3 13C3-PFHxS	B7I0136-BS1 OPR 0.125	7.66e3	79.9	NO
4	4 13C8-PFOA	B7I0136-BS1 OPR 0.125	3.50e4	70.2	NO
5	5 13C9-PFNA	B7I0136-BS1 OPR 0.125	4.98e4	75.9	NO
6	6 13C4-PFOS	B7I0136-BS1 OPR 0.125	8.83e3	78.7	NO
7	7 13C6-PFDA	B7I0136-BS1 OPR 0.125	4.45e4	78.3	NO
8	8 13C7-PFUnA	B7I0136-BS1 OPR 0.125	5.31e4	83.0	NO

Name: 170928M3_16, Date: 28-Sep-2017, Time: 20:24:40, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_17, Date: 28-Sep-2017, Time: 20:35:18, ID: B7I0125-BLK1 Method Blank 1, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0125-BLK1 Method Blank 1	9.14e3	63.5	NO
2	2 13C5-PFHxA	B7I0125-BLK1 Method Blank 1	3.73e4	87.7	NO
3	3 13C3-PFHxS	B7I0125-BLK1 Method Blank 1	6.60e3	68.7	NO
4	4 13C8-PFOA	B7I0125-BLK1 Method Blank 1	3.20e4	64.3	NO
5	5 13C9-PFNA	B7I0125-BLK1 Method Blank 1	4.02e4	61.3	NO
6	6 13C4-PFOS	B7I0125-BLK1 Method Blank 1	7.16e3	63.8	NO
7	7 13C6-PFDA	B7I0125-BLK1 Method Blank 1	3.25e4	57.1	NO
8	8 13C7-PFUnA	B7I0125-BLK1 Method Blank 1	3.23e4	50.5	NO

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Name: 170928M3_18, Date: 28-Sep-2017, Time: 20:45:58, ID: B7I0135-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0135-BLK1 Method Blank 0.25	1.39e4	96.3	NO
2	2 13C5-PFHxA	B7I0135-BLK1 Method Blank 0.25	3.37e4	79.3	NO
3	3 13C3-PFHxS	B7I0135-BLK1 Method Blank 0.25	7.16e3	74.7	NO
4	4 13C8-PFOA	B7I0135-BLK1 Method Blank 0.25	2.88e4	57.8	NO
5	5 13C9-PFNA	B7I0135-BLK1 Method Blank 0.25	3.89e4	59.4	NO
6	6 13C4-PFOS	B7I0135-BLK1 Method Blank 0.25	8.15e3	72.6	NO
7	7 13C6-PFDA	B7I0135-BLK1 Method Blank 0.25	3.62e4	63.7	NO
8	8 13C7-PFUnA	B7I0135-BLK1 Method Blank 0.25	4.40e4	68.8	NO

Name: 170928M3_19, Date: 28-Sep-2017, Time: 20:56:55, ID: B7I0136-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0136-BLK1 Method Blank 0.125	1.33e4	92.2	NO
2	2 13C5-PFHxA	B7I0136-BLK1 Method Blank 0.125	3.75e4	88.3	NO
3	3 13C3-PFHxS	B7I0136-BLK1 Method Blank 0.125	7.71e3	80.4	NO
4	4 13C8-PFOA	B7I0136-BLK1 Method Blank 0.125	3.41e4	68.5	NO
5	5 13C9-PFNA	B7I0136-BLK1 Method Blank 0.125	4.77e4	72.8	NO
6	6 13C4-PFOS	B7I0136-BLK1 Method Blank 0.125	8.49e3	75.6	NO
7	7 13C6-PFDA	B7I0136-BLK1 Method Blank 0.125	4.40e4	77.2	NO
8	8 13C7-PFUnA	B7I0136-BLK1 Method Blank 0.125	5.14e4	80.3	NO

Name: 170928M3_20, Date: 28-Sep-2017, Time: 21:07:41, ID: B7I0125-BS2 OPR 1, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0125-BS2 OPR 1	8.66e3	60.2	NO
2	2 13C5-PFHxA	B7I0125-BS2 OPR 1	3.00e4	70.5	NO
3	3 13C3-PFHxS	B7I0125-BS2 OPR 1	6.98e3	72.8	NO
4	4 13C8-PFOA	B7I0125-BS2 OPR 1	2.83e4	56.8	NO
5	5 13C9-PFNA	B7I0125-BS2 OPR 1	3.60e4	54.9	NO
6	6 13C4-PFOS	B7I0125-BS2 OPR 1	8.31e3	74.1	NO
7	7 13C6-PFDA	B7I0125-BS2 OPR 1	3.06e4	53.8	NO
8	8 13C7-PFUnA	B7I0125-BS2 OPR 1	3.49e4	54.5	NO

Name: 170928M3_21, Date: 28-Sep-2017, Time: 21:18:20, ID: B7I0125-BS3 OPR 1, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0125-BS3 OPR 1	9.70e3	67.4	NO
2	2 13C5-PFHxA	B7I0125-BS3 OPR 1	3.99e4	93.9	NO
3	3 13C3-PFHxS	B7I0125-BS3 OPR 1	7.77e3	80.9	NO
4	4 13C8-PFOA	B7I0125-BS3 OPR 1	3.47e4	69.5	NO
5	5 13C9-PFNA	B7I0125-BS3 OPR 1	4.20e4	64.1	NO
6	6 13C4-PFOS	B7I0125-BS3 OPR 1	8.30e3	74.0	NO
7	7 13C6-PFDA	B7I0125-BS3 OPR 1	3.50e4	61.5	NO
8	8 13C7-PFUnA	B7I0125-BS3 OPR 1	3.57e4	55.8	NO

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Name: 170928M3_22, Date: 28-Sep-2017, Time: 21:29:06, ID: B7I0125-BS4 OPR 1, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0125-BS4 OPR 1	9.91e3	68.8	NO
2	2 13C5-PFHxA	B7I0125-BS4 OPR 1	3.97e4	93.4	NO
3	3 13C3-PFHxS	B7I0125-BS4 OPR 1	8.04e3	83.8	NO
4	4 13C8-PFOA	B7I0125-BS4 OPR 1	3.55e4	71.2	NO
5	5 13C9-PFNA	B7I0125-BS4 OPR 1	4.36e4	66.6	NO
6	6 13C4-PFOS	B7I0125-BS4 OPR 1	8.63e3	76.9	NO
7	7 13C6-PFDA	B7I0125-BS4 OPR 1	3.81e4	66.9	NO
8	8 13C7-PFUnA	B7I0125-BS4 OPR 1	3.80e4	59.4	NO

Name: 170928M3_23, Date: 28-Sep-2017, Time: 21:39:45, ID: B7I0125-BS5 OPR 1, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0125-BS5 OPR 1	1.05e4	72.7	NO
2	2 13C5-PFHxA	B7I0125-BS5 OPR 1	3.77e4	88.7	NO
3	3 13C3-PFHxS	B7I0125-BS5 OPR 1	6.62e3	69.0	NO
4	4 13C8-PFOA	B7I0125-BS5 OPR 1	3.34e4	67.0	NO
5	5 13C9-PFNA	B7I0125-BS5 OPR 1	4.32e4	65.9	NO
6	6 13C4-PFOS	B7I0125-BS5 OPR 1	7.95e3	70.8	NO
7	7 13C6-PFDA	B7I0125-BS5 OPR 1	3.42e4	60.2	NO
8	8 13C7-PFUnA	B7I0125-BS5 OPR 1	3.69e4	57.7	NO

Name: 170928M3_24, Date: 28-Sep-2017, Time: 21:50:23, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_25, Date: 28-Sep-2017, Time: 22:01:09, ID: 1701293-01 LORNG-SW18001-091817 0.10707, Description: LORNG-SW18001-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701293-01 LORNG-SW18001-091...	1.05e4	72.7	NO
2	2 13C5-PFHxA	1701293-01 LORNG-SW18001-091...	2.45e4	57.7	NO
3	3 13C3-PFHxS	1701293-01 LORNG-SW18001-091...	6.81e3	71.0	NO
4	4 13C8-PFOA	1701293-01 LORNG-SW18001-091...	2.21e4	44.4	YES
5	5 13C9-PFNA	1701293-01 LORNG-SW18001-091...	2.92e4	44.6	YES
6	6 13C4-PFOS	1701293-01 LORNG-SW18001-091...	7.98e3	71.2	NO
7	7 13C6-PFDA	1701293-01 LORNG-SW18001-091...	2.48e4	43.6	YES
8	8 13C7-PFUnA	1701293-01 LORNG-SW18001-091...	3.00e4	46.9	YES

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Name: 170928M3_26, Date: 28-Sep-2017, Time: 22:11:48, ID: 1701293-02 LORNG-SWDR001-091817 0.11418, Description: LORNG-SWDR001-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701293-02 LORNG-SWDR001-091...	1.86e4	129.0	NO
2	2 13C5-PFHxA	1701293-02 LORNG-SWDR001-091...	3.51e4	82.7	NO
3	3 13C3-PFHxS	1701293-02 LORNG-SWDR001-091...	6.95e3	72.5	NO
4	4 13C8-PFOA	1701293-02 LORNG-SWDR001-091...	3.30e4	66.1	NO
5	5 13C9-PFNA	1701293-02 LORNG-SWDR001-091...	4.45e4	67.9	NO
6	6 13C4-PFOS	1701293-02 LORNG-SWDR001-091...	8.47e3	75.5	NO
7	7 13C6-PFDA	1701293-02 LORNG-SWDR001-091...	3.68e4	64.6	NO
8	8 13C7-PFUnA	1701293-02 LORNG-SWDR001-091...	4.89e4	76.3	NO

Name: 170928M3_27, Date: 28-Sep-2017, Time: 22:22:34, ID: 1701293-03 LORNG-SWDR002-091817 0.11546, Description: LORNG-SWDR002-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701293-03 LORNG-SWDR002-091...	1.65e4	114.7	NO
2	2 13C5-PFHxA	1701293-03 LORNG-SWDR002-091...	3.57e4	83.9	NO
3	3 13C3-PFHxS	1701293-03 LORNG-SWDR002-091...	7.69e3	80.1	NO
4	4 13C8-PFOA	1701293-03 LORNG-SWDR002-091...	3.14e4	63.0	NO
5	5 13C9-PFNA	1701293-03 LORNG-SWDR002-091...	4.16e4	63.5	NO
6	6 13C4-PFOS	1701293-03 LORNG-SWDR002-091...	8.75e3	78.0	NO
7	7 13C6-PFDA	1701293-03 LORNG-SWDR002-091...	3.46e4	60.8	NO
8	8 13C7-PFUnA	1701293-03 LORNG-SWDR002-091...	4.36e4	68.2	NO

Name: 170928M3_28, Date: 28-Sep-2017, Time: 22:33:12, ID: 1701293-04 LORNG-SWNP001-091817 0.11459, Description: LORNG-SWNP001-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701293-04 LORNG-SWNP001-091...	1.98e4	137.7	NO
2	2 13C5-PFHxA	1701293-04 LORNG-SWNP001-091...	4.00e4	94.0	NO
3	3 13C3-PFHxS	1701293-04 LORNG-SWNP001-091...	8.08e3	84.2	NO
4	4 13C8-PFOA	1701293-04 LORNG-SWNP001-091...	3.43e4	68.7	NO
5	5 13C9-PFNA	1701293-04 LORNG-SWNP001-091...	4.73e4	72.1	NO
6	6 13C4-PFOS	1701293-04 LORNG-SWNP001-091...	9.64e3	85.9	NO
7	7 13C6-PFDA	1701293-04 LORNG-SWNP001-091...	4.05e4	71.2	NO
8	8 13C7-PFUnA	1701293-04 LORNG-SWNP001-091...	4.92e4	76.9	NO

Name: 170928M3_29, Date: 28-Sep-2017, Time: 22:43:59, ID: 1701300-01 RI17-MW-3 (2-7)-091917 0.25556, Description: RI17-MW-3 (2-7)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-01 RI17-MW-3 (2-7)-09191...	7.67e3	53.3	NO
2	2 13C5-PFHxA	1701300-01 RI17-MW-3 (2-7)-09191...	3.18e4	74.9	NO
3	3 13C3-PFHxS	1701300-01 RI17-MW-3 (2-7)-09191...	6.72e3	70.0	NO
4	4 13C8-PFOA	1701300-01 RI17-MW-3 (2-7)-09191...	3.00e4	60.1	NO
5	5 13C9-PFNA	1701300-01 RI17-MW-3 (2-7)-09191...	3.91e4	59.6	NO
6	6 13C4-PFOS	1701300-01 RI17-MW-3 (2-7)-09191...	8.39e3	74.7	NO
7	7 13C6-PFDA	1701300-01 RI17-MW-3 (2-7)-09191...	3.32e4	58.3	NO
8	8 13C7-PFUnA	1701300-01 RI17-MW-3 (2-7)-09191...	4.57e4	71.4	NO

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Name: 170928M3_30, Date: 28-Sep-2017, Time: 22:54:38, ID: 1701300-02 RI17-MW-3 (16-17)-091917 0.25612, Description: RI17-MW-3 (16-17)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-02 RI17-MW-3 (16-17)-091...	7.82e3	54.3	NO
2	2 13C5-PFHxA	1701300-02 RI17-MW-3 (16-17)-091...	3.36e4	79.1	NO
3	3 13C3-PFHxS	1701300-02 RI17-MW-3 (16-17)-091...	7.24e3	75.5	NO
4	4 13C8-PFOA	1701300-02 RI17-MW-3 (16-17)-091...	2.97e4	59.5	NO
5	5 13C9-PFNA	1701300-02 RI17-MW-3 (16-17)-091...	3.89e4	59.3	NO
6	6 13C4-PFOS	1701300-02 RI17-MW-3 (16-17)-091...	8.17e3	72.8	NO
7	7 13C6-PFDA	1701300-02 RI17-MW-3 (16-17)-091...	3.25e4	57.2	NO
8	8 13C7-PFUnA	1701300-02 RI17-MW-3 (16-17)-091...	3.91e4	61.0	NO

Name: 170928M3_31, Date: 28-Sep-2017, Time: 23:05:24, ID: 1701300-03 RI17-MW-3 (26-27)-091917 0.2598, Description: RI17-MW-3 (26-27)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-03 RI17-MW-3 (26-27)-091...	7.69e3	53.4	NO
2	2 13C5-PFHxA	1701300-03 RI17-MW-3 (26-27)-091...	3.44e4	80.9	NO
3	3 13C3-PFHxS	1701300-03 RI17-MW-3 (26-27)-091...	7.52e3	78.4	NO
4	4 13C8-PFOA	1701300-03 RI17-MW-3 (26-27)-091...	3.36e4	67.4	NO
5	5 13C9-PFNA	1701300-03 RI17-MW-3 (26-27)-091...	4.26e4	65.0	NO
6	6 13C4-PFOS	1701300-03 RI17-MW-3 (26-27)-091...	8.96e3	79.8	NO
7	7 13C6-PFDA	1701300-03 RI17-MW-3 (26-27)-091...	3.45e4	60.7	NO
8	8 13C7-PFUnA	1701300-03 RI17-MW-3 (26-27)-091...	4.65e4	72.6	NO

Name: 170928M3_32, Date: 28-Sep-2017, Time: 23:16:11, ID: 1701300-04 RI17-MW-3 (36-37)-091917 0.25178, Description: RI17-MW-3 (36-37)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-04 RI17-MW-3 (36-37)-091...	1.04e4	72.5	NO
2	2 13C5-PFHxA	1701300-04 RI17-MW-3 (36-37)-091...	3.44e4	80.8	NO
3	3 13C3-PFHxS	1701300-04 RI17-MW-3 (36-37)-091...	6.90e3	71.9	NO
4	4 13C8-PFOA	1701300-04 RI17-MW-3 (36-37)-091...	2.89e4	58.0	NO
5	5 13C9-PFNA	1701300-04 RI17-MW-3 (36-37)-091...	3.89e4	59.4	NO
6	6 13C4-PFOS	1701300-04 RI17-MW-3 (36-37)-091...	8.26e3	73.6	NO
7	7 13C6-PFDA	1701300-04 RI17-MW-3 (36-37)-091...	3.28e4	57.7	NO
8	8 13C7-PFUnA	1701300-04 RI17-MW-3 (36-37)-091...	4.27e4	66.7	NO

Name: 170928M3_33, Date: 28-Sep-2017, Time: 23:26:57, ID: 1701300-05 RI17-MW-3 (46-47)-091917 0.26044, Description: RI17-MW-3 (46-47)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-05 RI17-MW-3 (46-47)-091...	1.25e4	87.0	NO
2	2 13C5-PFHxA	1701300-05 RI17-MW-3 (46-47)-091...	3.12e4	73.4	NO
3	3 13C3-PFHxS	1701300-05 RI17-MW-3 (46-47)-091...	7.45e3	77.7	NO
4	4 13C8-PFOA	1701300-05 RI17-MW-3 (46-47)-091...	2.92e4	58.5	NO
5	5 13C9-PFNA	1701300-05 RI17-MW-3 (46-47)-091...	3.59e4	54.8	NO
6	6 13C4-PFOS	1701300-05 RI17-MW-3 (46-47)-091...	8.54e3	76.1	NO
7	7 13C6-PFDA	1701300-05 RI17-MW-3 (46-47)-091...	3.22e4	56.7	NO
8	8 13C7-PFUnA	1701300-05 RI17-MW-3 (46-47)-091...	3.75e4	58.5	NO

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Name: 170928M3_34, Date: 28-Sep-2017, Time: 23:37:38, ID: 1701300-06 RI17-MW-4 (5-10)-091917 0.25114, Description: RI17-MW-4 (5-10)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-06 RI17-MW-4 (5-10)-0919...	6.19e3	43.0	YES
2	2 13C5-PFHxA	1701300-06 RI17-MW-4 (5-10)-0919...	3.26e4	76.7	NO
3	3 13C3-PFHxS	1701300-06 RI17-MW-4 (5-10)-0919...	7.85e3	81.8	NO
4	4 13C8-PFOA	1701300-06 RI17-MW-4 (5-10)-0919...	2.99e4	59.9	NO
5	5 13C9-PFNA	1701300-06 RI17-MW-4 (5-10)-0919...	3.91e4	59.7	NO
6	6 13C4-PFOS	1701300-06 RI17-MW-4 (5-10)-0919...	9.26e3	82.6	NO
7	7 13C6-PFDA	1701300-06 RI17-MW-4 (5-10)-0919...	3.28e4	57.7	NO
8	8 13C7-PFUnA	1701300-06 RI17-MW-4 (5-10)-0919...	4.26e4	66.6	NO

Name: 170928M3_35, Date: 28-Sep-2017, Time: 23:48:23, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_36, Date: 28-Sep-2017, Time: 23:59:09, ID: ST170928M3-11 PFC CS3 17I2814, Description: PFC CS3 17I2814

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-11 PFC CS3 17I2814	1.70e4	118.4	NO
2	2 13C5-PFHxA	ST170928M3-11 PFC CS3 17I2814	5.27e4	124.0	NO
3	3 13C3-PFHxS	ST170928M3-11 PFC CS3 17I2814	1.13e4	118.0	NO
4	4 13C8-PFOA	ST170928M3-11 PFC CS3 17I2814	6.08e4	122.0	NO
5	5 13C9-PFNA	ST170928M3-11 PFC CS3 17I2814	8.12e4	123.8	NO
6	6 13C4-PFOS	ST170928M3-11 PFC CS3 17I2814	1.30e4	116.0	NO
7	7 13C6-PFDA	ST170928M3-11 PFC CS3 17I2814	6.88e4	120.9	NO
8	8 13C7-PFUnA	ST170928M3-11 PFC CS3 17I2814	7.76e4	121.2	NO

Name: 170928M3_37, Date: 29-Sep-2017, Time: 00:09:47, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

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Name: 170928M3_38, Date: 29-Sep-2017, Time: 00:20:25, ID: 1701300-07 RI17-MW-4 (19-20)-091917 0.24938, Description: RI17-MW-4 (19-20)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-07 RI17-MW-4 (19-20)-091...	9.34e3	64.8	NO
2	2 13C5-PFHxA	1701300-07 RI17-MW-4 (19-20)-091...	3.34e4	78.5	NO
3	3 13C3-PFHxS	1701300-07 RI17-MW-4 (19-20)-091...	7.56e3	78.8	NO
4	4 13C8-PFOA	1701300-07 RI17-MW-4 (19-20)-091...	3.19e4	64.1	NO
5	5 13C9-PFNA	1701300-07 RI17-MW-4 (19-20)-091...	4.16e4	63.4	NO
6	6 13C4-PFOS	1701300-07 RI17-MW-4 (19-20)-091...	8.94e3	79.7	NO
7	7 13C6-PFDA	1701300-07 RI17-MW-4 (19-20)-091...	3.61e4	63.4	NO
8	8 13C7-PFUnA	1701300-07 RI17-MW-4 (19-20)-091...	4.40e4	68.8	NO

Name: 170928M3_39, Date: 29-Sep-2017, Time: 00:31:12, ID: 1701300-08 RI17-MW-4 (29-30)-091917 0.25383, Description: RI17-MW-4 (29-30)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-08 RI17-MW-4 (29-30)-091...	1.09e4	75.7	NO
2	2 13C5-PFHxA	1701300-08 RI17-MW-4 (29-30)-091...	3.55e4	83.4	NO
3	3 13C3-PFHxS	1701300-08 RI17-MW-4 (29-30)-091...	7.05e3	73.5	NO
4	4 13C8-PFOA	1701300-08 RI17-MW-4 (29-30)-091...	3.26e4	65.4	NO
5	5 13C9-PFNA	1701300-08 RI17-MW-4 (29-30)-091...	4.26e4	65.0	NO
6	6 13C4-PFOS	1701300-08 RI17-MW-4 (29-30)-091...	8.88e3	79.1	NO
7	7 13C6-PFDA	1701300-08 RI17-MW-4 (29-30)-091...	3.69e4	64.9	NO
8	8 13C7-PFUnA	1701300-08 RI17-MW-4 (29-30)-091...	4.72e4	73.7	NO

Name: 170928M3_40, Date: 29-Sep-2017, Time: 00:41:54, ID: 1701300-09 RI17-MW-4 (39-40)-091917 0.25463, Description: RI17-MW-4 (39-40)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-09 RI17-MW-4 (39-40)-091...	8.75e3	60.8	NO
2	2 13C5-PFHxA	1701300-09 RI17-MW-4 (39-40)-091...	3.96e4	93.1	NO
3	3 13C3-PFHxS	1701300-09 RI17-MW-4 (39-40)-091...	7.27e3	75.7	NO
4	4 13C8-PFOA	1701300-09 RI17-MW-4 (39-40)-091...	3.74e4	75.0	NO
5	5 13C9-PFNA	1701300-09 RI17-MW-4 (39-40)-091...	4.61e4	70.3	NO
6	6 13C4-PFOS	1701300-09 RI17-MW-4 (39-40)-091...	9.45e3	84.2	NO
7	7 13C6-PFDA	1701300-09 RI17-MW-4 (39-40)-091...	4.01e4	70.4	NO
8	8 13C7-PFUnA	1701300-09 RI17-MW-4 (39-40)-091...	5.12e4	80.0	NO

Name: 170928M3_41, Date: 29-Sep-2017, Time: 00:52:42, ID: 1701300-10 RI17-MW-4 (49-50)-091917 0.26, Description: RI17-MW-4 (49-50)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701300-10 RI17-MW-4 (49-50)-091...	1.20e4	83.1	NO
2	2 13C5-PFHxA	1701300-10 RI17-MW-4 (49-50)-091...	3.46e4	81.3	NO
3	3 13C3-PFHxS	1701300-10 RI17-MW-4 (49-50)-091...	6.96e3	72.5	NO
4	4 13C8-PFOA	1701300-10 RI17-MW-4 (49-50)-091...	3.28e4	65.7	NO
5	5 13C9-PFNA	1701300-10 RI17-MW-4 (49-50)-091...	4.35e4	66.4	NO
6	6 13C4-PFOS	1701300-10 RI17-MW-4 (49-50)-091...	8.73e3	77.8	NO
7	7 13C6-PFDA	1701300-10 RI17-MW-4 (49-50)-091...	3.69e4	64.9	NO
8	8 13C7-PFUnA	1701300-10 RI17-MW-4 (49-50)-091...	4.65e4	72.6	NO

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Name: 170928M3_42, Date: 29-Sep-2017, Time: 01:03:23, ID: 1701294-01 RI17-DISTH2O-MW-1-091817 0.125, Description: RI17-DISTH2O-MW-1-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-01 RI17-DISTH2O-MW-1-0...	1.49e4	103.4	NO
2	2 13C5-PFHxA	1701294-01 RI17-DISTH2O-MW-1-0...	3.27e4	76.9	NO
3	3 13C3-PFHxS	1701294-01 RI17-DISTH2O-MW-1-0...	7.05e3	73.5	NO
4	4 13C8-PFOA	1701294-01 RI17-DISTH2O-MW-1-0...	2.99e4	60.0	NO
5	5 13C9-PFNA	1701294-01 RI17-DISTH2O-MW-1-0...	4.12e4	62.9	NO
6	6 13C4-PFOS	1701294-01 RI17-DISTH2O-MW-1-0...	8.69e3	77.5	NO
7	7 13C6-PFDA	1701294-01 RI17-DISTH2O-MW-1-0...	3.89e4	68.4	NO
8	8 13C7-PFUnA	1701294-01 RI17-DISTH2O-MW-1-0...	4.60e4	71.8	NO

Name: 170928M3_43, Date: 29-Sep-2017, Time: 01:14:10, ID: 1701294-02 RI17-FRB-MW-1-091817 0.125, Description: RI17-FRB-MW-1-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-02 RI17-FRB-MW-1-09181...	1.76e4	122.3	NO
2	2 13C5-PFHxA	1701294-02 RI17-FRB-MW-1-09181...	3.46e4	81.4	NO
3	3 13C3-PFHxS	1701294-02 RI17-FRB-MW-1-09181...	7.80e3	81.3	NO
4	4 13C8-PFOA	1701294-02 RI17-FRB-MW-1-09181...	3.09e4	61.9	NO
5	5 13C9-PFNA	1701294-02 RI17-FRB-MW-1-09181...	4.55e4	69.4	NO
6	6 13C4-PFOS	1701294-02 RI17-FRB-MW-1-09181...	8.32e3	74.1	NO
7	7 13C6-PFDA	1701294-02 RI17-FRB-MW-1-09181...	4.13e4	72.7	NO
8	8 13C7-PFUnA	1701294-02 RI17-FRB-MW-1-09181...	4.83e4	75.5	NO

Name: 170928M3_44, Date: 29-Sep-2017, Time: 01:24:56, ID: 1701294-03 RI17-5006-MW-1-091817 0.125, Description: RI17-5006-MW-1-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-03 RI17-5006-MW-1-0918...	1.73e4	120.1	NO
2	2 13C5-PFHxA	1701294-03 RI17-5006-MW-1-0918...	3.42e4	80.4	NO
3	3 13C3-PFHxS	1701294-03 RI17-5006-MW-1-0918...	7.69e3	80.2	NO
4	4 13C8-PFOA	1701294-03 RI17-5006-MW-1-0918...	3.42e4	68.5	NO
5	5 13C9-PFNA	1701294-03 RI17-5006-MW-1-0918...	5.55e4	84.6	NO
6	6 13C4-PFOS	1701294-03 RI17-5006-MW-1-0918...	8.78e3	78.3	NO
7	7 13C6-PFDA	1701294-03 RI17-5006-MW-1-0918...	4.99e4	87.6	NO
8	8 13C7-PFUnA	1701294-03 RI17-5006-MW-1-0918...	5.71e4	89.3	NO

Name: 170928M3_45, Date: 29-Sep-2017, Time: 01:35:43, ID: 1701294-04 RI17-5171-MW-1-091817 0.125, Description: RI17-5171-MW-1-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-04 RI17-5171-MW-1-0918...	1.69e4	117.6	NO
2	2 13C5-PFHxA	1701294-04 RI17-5171-MW-1-0918...	3.39e4	79.7	NO
3	3 13C3-PFHxS	1701294-04 RI17-5171-MW-1-0918...	7.31e3	76.2	NO
4	4 13C8-PFOA	1701294-04 RI17-5171-MW-1-0918...	3.29e4	66.0	NO
5	5 13C9-PFNA	1701294-04 RI17-5171-MW-1-0918...	4.80e4	73.2	NO
6	6 13C4-PFOS	1701294-04 RI17-5171-MW-1-0918...	8.51e3	75.9	NO
7	7 13C6-PFDA	1701294-04 RI17-5171-MW-1-0918...	4.50e4	79.1	NO
8	8 13C7-PFUnA	1701294-04 RI17-5171-MW-1-0918...	5.86e4	91.6	NO

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Name: 170928M3_46, Date: 29-Sep-2017, Time: 01:46:29, ID: 1701294-05 RI17-EB-MW-1-091817 0.125, Description: RI17-EB-MW-1-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-05 RI17-EB-MW-1-091817 ...	1.01e4	70.1	NO
2	2 13C5-PFHxA	1701294-05 RI17-EB-MW-1-091817 ...	3.50e4	82.4	NO
3	3 13C3-PFHxS	1701294-05 RI17-EB-MW-1-091817 ...	7.25e3	75.5	NO
4	4 13C8-PFOA	1701294-05 RI17-EB-MW-1-091817 ...	2.96e4	59.5	NO
5	5 13C9-PFNA	1701294-05 RI17-EB-MW-1-091817 ...	4.20e4	64.0	NO
6	6 13C4-PFOS	1701294-05 RI17-EB-MW-1-091817 ...	8.81e3	78.5	NO
7	7 13C6-PFDA	1701294-05 RI17-EB-MW-1-091817 ...	4.08e4	71.7	NO
8	8 13C7-PFUnA	1701294-05 RI17-EB-MW-1-091817 ...	4.74e4	74.1	NO

Name: 170928M3_47, Date: 29-Sep-2017, Time: 01:57:07, ID: 1701294-06 RI17-MW-1(3-8)-091817 0.125, Description: RI17-MW-1(3-8)-091817

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-06 RI17-MW-1(3-8)-09181...	1.44e4	100.4	NO
2	2 13C5-PFHxA	1701294-06 RI17-MW-1(3-8)-09181...	3.51e4	82.7	NO
3	3 13C3-PFHxS	1701294-06 RI17-MW-1(3-8)-09181...	6.40e3	66.7	NO
4	4 13C8-PFOA	1701294-06 RI17-MW-1(3-8)-09181...	3.27e4	65.7	NO
5	5 13C9-PFNA	1701294-06 RI17-MW-1(3-8)-09181...	4.09e4	62.3	NO
6	6 13C4-PFOS	1701294-06 RI17-MW-1(3-8)-09181...	7.89e3	70.3	NO
7	7 13C6-PFDA	1701294-06 RI17-MW-1(3-8)-09181...	3.45e4	60.7	NO
8	8 13C7-PFUnA	1701294-06 RI17-MW-1(3-8)-09181...	4.62e4	72.2	NO

Name: 170928M3_48, Date: 29-Sep-2017, Time: 02:07:54, ID: 1701294-07 RI17-MW-1(3-8)-091817 Dup 0.125, Description: RI17-MW-1(3-8)-091817 Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-07 RI17-MW-1(3-8)-09181...	1.61e4	111.6	NO
2	2 13C5-PFHxA	1701294-07 RI17-MW-1(3-8)-09181...	3.53e4	83.1	NO
3	3 13C3-PFHxS	1701294-07 RI17-MW-1(3-8)-09181...	7.03e3	73.3	NO
4	4 13C8-PFOA	1701294-07 RI17-MW-1(3-8)-09181...	3.44e4	69.1	NO
5	5 13C9-PFNA	1701294-07 RI17-MW-1(3-8)-09181...	4.33e4	66.1	NO
6	6 13C4-PFOS	1701294-07 RI17-MW-1(3-8)-09181...	8.51e3	75.8	NO
7	7 13C6-PFDA	1701294-07 RI17-MW-1(3-8)-09181...	3.78e4	66.4	NO
8	8 13C7-PFUnA	1701294-07 RI17-MW-1(3-8)-09181...	5.05e4	78.9	NO

Name: 170928M3_49, Date: 29-Sep-2017, Time: 02:18:33, ID: 1701294-08 RI17-MW-1(17-18)-091917 0.125, Description: RI17-MW-1(17-18)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-08 RI17-MW-1(17-18)-091...	1.33e4	92.4	NO
2	2 13C5-PFHxA	1701294-08 RI17-MW-1(17-18)-091...	2.64e4	62.2	NO
3	3 13C3-PFHxS	1701294-08 RI17-MW-1(17-18)-091...	6.25e3	65.1	NO
4	4 13C8-PFOA	1701294-08 RI17-MW-1(17-18)-091...	2.47e4	49.6	YES
5	5 13C9-PFNA	1701294-08 RI17-MW-1(17-18)-091...	3.48e4	53.1	NO
6	6 13C4-PFOS	1701294-08 RI17-MW-1(17-18)-091...	7.52e3	67.0	NO
7	7 13C6-PFDA	1701294-08 RI17-MW-1(17-18)-091...	3.11e4	54.6	NO
8	8 13C7-PFUnA	1701294-08 RI17-MW-1(17-18)-091...	4.04e4	63.1	NO

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Name: 170928M3_50, Date: 29-Sep-2017, Time: 02:29:11, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 17I2814, Description: PFC CS3 17I2814

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-12 PFC CS3 17I2814	1.74e4	121.1	NO
2	2 13C5-PFHxA	ST170928M3-12 PFC CS3 17I2814	5.32e4	125.2	NO
3	3 13C3-PFHxS	ST170928M3-12 PFC CS3 17I2814	1.16e4	120.7	NO
4	4 13C8-PFOA	ST170928M3-12 PFC CS3 17I2814	6.16e4	123.5	NO
5	5 13C9-PFNA	ST170928M3-12 PFC CS3 17I2814	8.17e4	124.6	NO
6	6 13C4-PFOS	ST170928M3-12 PFC CS3 17I2814	1.43e4	127.2	NO
7	7 13C6-PFDA	ST170928M3-12 PFC CS3 17I2814	6.97e4	122.5	NO
8	8 13C7-PFUnA	ST170928M3-12 PFC CS3 17I2814	7.93e4	124.0	NO

Name: 170928M3_52, Date: 29-Sep-2017, Time: 02:50:28, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA	6.50e0	0.0	NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_53, Date: 29-Sep-2017, Time: 03:01:14, ID: 1701294-09 RI17-MW-2(2-7)-091917 0.125, Description: RI17-MW-2(2-7)-091917

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-09 RI17-MW-2(2-7)-09191...	1.30e4	90.5	NO
2	2 13C5-PFHxA	1701294-09 RI17-MW-2(2-7)-09191...	3.14e4	73.9	NO
3	3 13C3-PFHxS	1701294-09 RI17-MW-2(2-7)-09191...	6.69e3	69.7	NO
4	4 13C8-PFOA	1701294-09 RI17-MW-2(2-7)-09191...	3.33e4	66.9	NO
5	5 13C9-PFNA	1701294-09 RI17-MW-2(2-7)-09191...	4.33e4	66.0	NO
6	6 13C4-PFOS	1701294-09 RI17-MW-2(2-7)-09191...	8.25e3	73.5	NO
7	7 13C6-PFDA	1701294-09 RI17-MW-2(2-7)-09191...	3.85e4	67.6	NO
8	8 13C7-PFUnA	1701294-09 RI17-MW-2(2-7)-09191...	4.90e4	76.5	NO

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Name: 170928M3_54, Date: 29-Sep-2017, Time: 03:11:52, ID: 1701294-10 RI17-MW-2(12-13)-091917 0.125, Description: RI17-MW-2(12-13)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-10 RI17-MW-2(12-13)-091...	1.71e4	118.5	NO
2	2 13C5-PFHxA	1701294-10 RI17-MW-2(12-13)-091...	3.55e4	83.5	NO
3	3 13C3-PFHxS	1701294-10 RI17-MW-2(12-13)-091...	6.45e3	67.2	NO
4	4 13C8-PFOA	1701294-10 RI17-MW-2(12-13)-091...	3.51e4	70.4	NO
5	5 13C9-PFNA	1701294-10 RI17-MW-2(12-13)-091...	4.61e4	70.3	NO
6	6 13C4-PFOS	1701294-10 RI17-MW-2(12-13)-091...	8.51e3	75.8	NO
7	7 13C6-PFDA	1701294-10 RI17-MW-2(12-13)-091...	3.86e4	67.8	NO
8	8 13C7-PFUnA	1701294-10 RI17-MW-2(12-13)-091...	4.40e4	68.8	NO

Name: 170928M3_55, Date: 29-Sep-2017, Time: 03:22:39, ID: 1701294-11 RI17-MW-2(17-18)-091917 0.125, Description: RI17-MW-2(17-18)-091917

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-11 RI17-MW-2(17-18)-091...	1.55e4	107.5	NO
2	2 13C5-PFHxA	1701294-11 RI17-MW-2(17-18)-091...	3.69e4	86.7	NO
3	3 13C3-PFHxS	1701294-11 RI17-MW-2(17-18)-091...	7.15e3	74.6	NO
4	4 13C8-PFOA	1701294-11 RI17-MW-2(17-18)-091...	3.51e4	70.4	NO
5	5 13C9-PFNA	1701294-11 RI17-MW-2(17-18)-091...	4.80e4	73.3	NO
6	6 13C4-PFOS	1701294-11 RI17-MW-2(17-18)-091...	8.33e3	74.3	NO
7	7 13C6-PFDA	1701294-11 RI17-MW-2(17-18)-091...	4.06e4	71.3	NO
8	8 13C7-PFUnA	1701294-11 RI17-MW-2(17-18)-091...	4.94e4	77.3	NO

Name: 170928M3_56, Date: 29-Sep-2017, Time: 03:33:17, ID: 1701294-12 VAS-RI17-B21(108-110FT) 0.125, Description: VAS-RI17-B21(108-110FT)

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-12 VAS-RI17-B21(108-110...	8.81e3	61.2	NO
2	2 13C5-PFHxA	1701294-12 VAS-RI17-B21(108-110...	4.22e4	99.4	NO
3	3 13C3-PFHxS	1701294-12 VAS-RI17-B21(108-110...	7.30e3	76.0	NO
4	4 13C8-PFOA	1701294-12 VAS-RI17-B21(108-110...	3.98e4	79.8	NO
5	5 13C9-PFNA	1701294-12 VAS-RI17-B21(108-110...	4.77e4	72.8	NO
6	6 13C4-PFOS	1701294-12 VAS-RI17-B21(108-110...	8.76e3	78.1	NO
7	7 13C6-PFDA	1701294-12 VAS-RI17-B21(108-110...	4.02e4	70.7	NO
8	8 13C7-PFUnA	1701294-12 VAS-RI17-B21(108-110...	5.44e4	85.0	NO

Name: 170928M3_57, Date: 29-Sep-2017, Time: 03:44:04, ID: 1701294-13 VAS-RI17-B21(69-71FT) 0.125, Description: VAS-RI17-B21(69-71FT)

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-13 VAS-RI17-B21(69-71FT...	1.78e4	123.3	NO
2	2 13C5-PFHxA	1701294-13 VAS-RI17-B21(69-71FT...	3.32e4	78.0	NO
3	3 13C3-PFHxS	1701294-13 VAS-RI17-B21(69-71FT...	6.38e3	66.5	NO
4	4 13C8-PFOA	1701294-13 VAS-RI17-B21(69-71FT...	2.90e4	58.2	NO
5	5 13C9-PFNA	1701294-13 VAS-RI17-B21(69-71FT...	3.96e4	60.4	NO
6	6 13C4-PFOS	1701294-13 VAS-RI17-B21(69-71FT...	7.86e3	70.1	NO
7	7 13C6-PFDA	1701294-13 VAS-RI17-B21(69-71FT...	3.24e4	56.9	NO
8	8 13C7-PFUnA	1701294-13 VAS-RI17-B21(69-71FT...	4.07e4	63.6	NO

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Name: 170928M3_58, Date: 29-Sep-2017, Time: 03:54:42, ID: 1701294-14 VAS-RI17-B21(61-63FT) 0.125, Description: VAS-RI17-B21(61-63FT)

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-14 VAS-RI17-B21(61-63FT...	1.23e4	85.6	NO
2	2 13C5-PFHxA	1701294-14 VAS-RI17-B21(61-63FT...	3.24e4	76.1	NO
3	3 13C3-PFHxS	1701294-14 VAS-RI17-B21(61-63FT...	6.76e3	70.5	NO
4	4 13C8-PFOA	1701294-14 VAS-RI17-B21(61-63FT...	2.99e4	59.9	NO
5	5 13C9-PFNA	1701294-14 VAS-RI17-B21(61-63FT...	3.83e4	58.4	NO
6	6 13C4-PFOS	1701294-14 VAS-RI17-B21(61-63FT...	8.47e3	75.5	NO
7	7 13C6-PFDA	1701294-14 VAS-RI17-B21(61-63FT...	3.22e4	56.7	NO
8	8 13C7-PFUnA	1701294-14 VAS-RI17-B21(61-63FT...	4.25e4	66.3	NO

Name: 170928M3_59, Date: 29-Sep-2017, Time: 04:05:21, ID: 1701294-15 VAS-RI17-B21(61-63FT) Dup 0.125, Description: VAS-RI17-B21(61-63FT) Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-15 VAS-RI17-B21(61-63FT...	2.02e4	140.1	NO
2	2 13C5-PFHxA	1701294-15 VAS-RI17-B21(61-63FT...	3.89e4	91.5	NO
3	3 13C3-PFHxS	1701294-15 VAS-RI17-B21(61-63FT...	7.17e3	74.8	NO
4	4 13C8-PFOA	1701294-15 VAS-RI17-B21(61-63FT...	3.48e4	69.8	NO
5	5 13C9-PFNA	1701294-15 VAS-RI17-B21(61-63FT...	4.67e4	71.2	NO
6	6 13C4-PFOS	1701294-15 VAS-RI17-B21(61-63FT...	8.60e3	76.6	NO
7	7 13C6-PFDA	1701294-15 VAS-RI17-B21(61-63FT...	3.92e4	68.9	NO
8	8 13C7-PFUnA	1701294-15 VAS-RI17-B21(61-63FT...	5.13e4	80.1	NO

Name: 170928M3_60, Date: 29-Sep-2017, Time: 04:16:11, ID: 1701294-16 Pond 1-2 @ Dam PD 0.125, Description: Pond 1-2 @ Dam PD

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-16 Pond 1-2 @ Dam PD 0....	1.61e4	112.0	NO
2	2 13C5-PFHxA	1701294-16 Pond 1-2 @ Dam PD 0....	2.80e4	65.9	NO
3	3 13C3-PFHxS	1701294-16 Pond 1-2 @ Dam PD 0....	6.62e3	69.0	NO
4	4 13C8-PFOA	1701294-16 Pond 1-2 @ Dam PD 0....	2.39e4	47.9	YES
5	5 13C9-PFNA	1701294-16 Pond 1-2 @ Dam PD 0....	2.68e4	40.9	YES
6	6 13C4-PFOS	1701294-16 Pond 1-2 @ Dam PD 0....	6.80e3	60.6	NO
7	7 13C6-PFDA	1701294-16 Pond 1-2 @ Dam PD 0....	2.55e4	44.8	YES
8	8 13C7-PFUnA	1701294-16 Pond 1-2 @ Dam PD 0....	3.09e4	48.3	YES

Name: 170928M3_61, Date: 29-Sep-2017, Time: 04:26:53, ID: 1701294-17 SW-VEL L4 0.125, Description: SW-VEL L4

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701294-17 SW-VEL L4 0.125	1.90e4	131.9	NO
2	2 13C5-PFHxA	1701294-17 SW-VEL L4 0.125	3.42e4	80.3	NO
3	3 13C3-PFHxS	1701294-17 SW-VEL L4 0.125	6.10e3	63.5	NO
4	4 13C8-PFOA	1701294-17 SW-VEL L4 0.125	2.94e4	58.9	NO
5	5 13C9-PFNA	1701294-17 SW-VEL L4 0.125	3.82e4	58.3	NO
6	6 13C4-PFOS	1701294-17 SW-VEL L4 0.125	7.26e3	64.7	NO
7	7 13C6-PFDA	1701294-17 SW-VEL L4 0.125	3.18e4	55.9	NO
8	8 13C7-PFUnA	1701294-17 SW-VEL L4 0.125	4.36e4	68.1	NO

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Name: 170928M3_62, Date: 29-Sep-2017, Time: 04:37:40, ID: B7I0026-BS3, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0026-BS3	1.48e3	10.3	YES
2	2 13C5-PFHxA	B7I0026-BS3	1.81e4	42.6	YES
3	3 13C3-PFHxS	B7I0026-BS3	4.39e3	45.8	YES
4	4 13C8-PFOA	B7I0026-BS3	2.03e4	40.6	YES
5	5 13C9-PFNA	B7I0026-BS3	2.66e4	40.5	YES
6	6 13C4-PFOS	B7I0026-BS3	5.44e3	48.5	YES
7	7 13C6-PFDA	B7I0026-BS3	2.28e4	40.0	YES
8	8 13C7-PFUnA	B7I0026-BS3	2.76e4	43.1	YES

Name: 170928M3_63, Date: 29-Sep-2017, Time: 04:48:18, ID: B7I0026-BS4, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0026-BS4	1.22e3	8.4	YES
2	2 13C5-PFHxA	B7I0026-BS4	1.71e4	40.3	YES
3	3 13C3-PFHxS	B7I0026-BS4	3.89e3	40.6	YES
4	4 13C8-PFOA	B7I0026-BS4	1.77e4	35.5	YES
5	5 13C9-PFNA	B7I0026-BS4	2.31e4	35.2	YES
6	6 13C4-PFOS	B7I0026-BS4	4.47e3	39.8	YES
7	7 13C6-PFDA	B7I0026-BS4	1.96e4	34.4	YES
8	8 13C7-PFUnA	B7I0026-BS4	2.29e4	35.8	YES

Name: 170928M3_64, Date: 29-Sep-2017, Time: 04:59:05, ID: B7I0026-BS5, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0026-BS5	1.36e3	9.5	YES
2	2 13C5-PFHxA	B7I0026-BS5	1.78e4	41.9	YES
3	3 13C3-PFHxS	B7I0026-BS5	3.93e3	40.9	YES
4	4 13C8-PFOA	B7I0026-BS5	1.81e4	36.2	YES
5	5 13C9-PFNA	B7I0026-BS5	2.40e4	36.6	YES
6	6 13C4-PFOS	B7I0026-BS5	5.11e3	45.5	YES
7	7 13C6-PFDA	B7I0026-BS5	2.14e4	37.5	YES
8	8 13C7-PFUnA	B7I0026-BS5	2.47e4	38.5	YES

Name: 170928M3_65, Date: 29-Sep-2017, Time: 05:09:51, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

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Name: 170928M3_66, Date: 29-Sep-2017, Time: 05:20:30, ID: 1701279-03 MH-117T-20170918 0.125, Description: MH-117T-20170918

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701279-03 MH-117T-20170918 0.1...	1.48e4	102.7	NO
2	2 13C5-PFHxA	1701279-03 MH-117T-20170918 0.1...	3.60e4	84.6	NO
3	3 13C3-PFHxS	1701279-03 MH-117T-20170918 0.1...	7.77e3	81.0	NO
4	4 13C8-PFOA	1701279-03 MH-117T-20170918 0.1...	3.31e4	66.4	NO
5	5 13C9-PFNA	1701279-03 MH-117T-20170918 0.1...	4.42e4	67.4	NO
6	6 13C4-PFOS	1701279-03 MH-117T-20170918 0.1...	8.29e3	73.8	NO
7	7 13C6-PFDA	1701279-03 MH-117T-20170918 0.1...	4.22e4	74.2	NO
8	8 13C7-PFUnA	1701279-03 MH-117T-20170918 0.1...	5.29e4	82.6	NO

Name: 170928M3_67, Date: 29-Sep-2017, Time: 05:31:16, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 17I2811, Description: PFC CS0 17I2811

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-13 PFC CS0 17I2811	2.02e4	140.3	NO
2	2 13C5-PFHxA	ST170928M3-13 PFC CS0 17I2811	6.32e4	148.7	NO
3	3 13C3-PFHxS	ST170928M3-13 PFC CS0 17I2811	1.28e4	133.0	NO
4	4 13C8-PFOA	ST170928M3-13 PFC CS0 17I2811	6.87e4	137.7	NO
5	5 13C9-PFNA	ST170928M3-13 PFC CS0 17I2811	9.24e4	140.9	NO
6	6 13C4-PFOS	ST170928M3-13 PFC CS0 17I2811	1.51e4	134.6	NO
7	7 13C6-PFDA	ST170928M3-13 PFC CS0 17I2811	7.28e4	128.0	NO
8	8 13C7-PFUnA	ST170928M3-13 PFC CS0 17I2811	8.25e4	128.9	NO

Name: 170928M3_69, Date: 29-Sep-2017, Time: 05:52:41, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA	7.01e0	0.0	NO

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Name: 170928M3_70, Date: 29-Sep-2017, Time: 06:03:19, ID: 1701279-11 MH-140N-20170918 0.125, Description: MH-140N-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701279-11 MH-140N-20170918 0.1...	2.06e4	142.8	NO
2	2 13C5-PFHxA	1701279-11 MH-140N-20170918 0.1...	4.34e4	102.0	NO
3	3 13C3-PFHxS	1701279-11 MH-140N-20170918 0.1...	8.16e3	85.1	NO
4	4 13C8-PFOA	1701279-11 MH-140N-20170918 0.1...	3.84e4	77.1	NO
5	5 13C9-PFNA	1701279-11 MH-140N-20170918 0.1...	5.05e4	77.0	NO
6	6 13C4-PFOS	1701279-11 MH-140N-20170918 0.1...	9.37e3	83.5	NO
7	7 13C6-PFDA	1701279-11 MH-140N-20170918 0.1...	4.40e4	77.4	NO
8	8 13C7-PFUnA	1701279-11 MH-140N-20170918 0.1...	5.37e4	83.9	NO

Name: 170928M3_71, Date: 29-Sep-2017, Time: 06:13:58, ID: 1701279-12 INTERCEPTOR SUMP-20170918 0.125, Description: INTERCEPTOR SUMP-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701279-12 INTERCEPTOR SUMP-...	1.81e4	126.1	NO
2	2 13C5-PFHxA	1701279-12 INTERCEPTOR SUMP-...	4.05e4	95.3	NO
3	3 13C3-PFHxS	1701279-12 INTERCEPTOR SUMP-...	7.34e3	76.5	NO
4	4 13C8-PFOA	1701279-12 INTERCEPTOR SUMP-...	3.62e4	72.6	NO
5	5 13C9-PFNA	1701279-12 INTERCEPTOR SUMP-...	4.91e4	74.9	NO
6	6 13C4-PFOS	1701279-12 INTERCEPTOR SUMP-...	8.94e3	79.7	NO
7	7 13C6-PFDA	1701279-12 INTERCEPTOR SUMP-...	4.36e4	76.6	NO
8	8 13C7-PFUnA	1701279-12 INTERCEPTOR SUMP-...	5.01e4	78.3	NO

Name: 170928M3_72, Date: 29-Sep-2017, Time: 06:24:36, ID: 1701279-15 SPRING-20170918 0.125, Description: SPRING-20170918

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701279-15 SPRING-20170918 0.125	2.04e4	141.8	NO
2	2 13C5-PFHxA	1701279-15 SPRING-20170918 0.125	4.61e4	108.5	NO
3	3 13C3-PFHxS	1701279-15 SPRING-20170918 0.125	8.41e3	87.7	NO
4	4 13C8-PFOA	1701279-15 SPRING-20170918 0.125	4.01e4	80.5	NO
5	5 13C9-PFNA	1701279-15 SPRING-20170918 0.125	5.26e4	80.3	NO
6	6 13C4-PFOS	1701279-15 SPRING-20170918 0.125	9.33e3	83.2	NO
7	7 13C6-PFDA	1701279-15 SPRING-20170918 0.125	4.54e4	79.7	NO
8	8 13C7-PFUnA	1701279-15 SPRING-20170918 0.125	5.37e4	83.9	NO

Name: 170928M3_73, Date: 29-Sep-2017, Time: 06:35:15, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA	9.33e0	0.1	YES
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

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Name: 170928M3_74, Date: 29-Sep-2017, Time: 06:46:01, ID: MB TESTER, Description: MB TESTER

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	MB TESTER	9.54e3	66.3	NO
2	2 13C5-PFHxA	MB TESTER	2.52e4	59.3	NO
3	3 13C3-PFHxS	MB TESTER	4.47e3	46.5	NO
4	4 13C8-PFOA	MB TESTER	2.86e4	57.3	NO
5	5 13C9-PFNA	MB TESTER	3.92e4	59.8	NO
6	6 13C4-PFOS	MB TESTER	6.37e3	56.8	NO
7	7 13C6-PFDA	MB TESTER	3.45e4	60.6	NO
8	8 13C7-PFUnA	MB TESTER	3.94e4	61.6	NO

Name: 170928M3_75, Date: 29-Sep-2017, Time: 06:56:48, ID: B7I0137-BS1 OPR 0.25, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0137-BS1 OPR 0.25	2.06e4	143.0	NO
2	2 13C5-PFHxA	B7I0137-BS1 OPR 0.25	4.20e4	98.7	NO
3	3 13C3-PFHxS	B7I0137-BS1 OPR 0.25	8.63e3	90.0	NO
4	4 13C8-PFOA	B7I0137-BS1 OPR 0.25	3.41e4	68.4	NO
5	5 13C9-PFNA	B7I0137-BS1 OPR 0.25	4.62e4	70.4	NO
6	6 13C4-PFOS	B7I0137-BS1 OPR 0.25	9.36e3	83.5	NO
7	7 13C6-PFDA	B7I0137-BS1 OPR 0.25	3.93e4	69.1	NO
8	8 13C7-PFUnA	B7I0137-BS1 OPR 0.25	3.90e4	61.0	NO

Name: 170928M3_76, Date: 29-Sep-2017, Time: 07:07:51, ID: B7I0142-BS1 OPR 1, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0142-BS1 OPR 1	2.76e4	191.7	YES
2	2 13C5-PFHxA	B7I0142-BS1 OPR 1	5.55e4	130.5	NO
3	3 13C3-PFHxS	B7I0142-BS1 OPR 1	9.56e3	99.6	NO
4	4 13C8-PFOA	B7I0142-BS1 OPR 1	4.93e4	98.9	NO
5	5 13C9-PFNA	B7I0142-BS1 OPR 1	6.36e4	97.0	NO
6	6 13C4-PFOS	B7I0142-BS1 OPR 1	1.20e4	107.1	NO
7	7 13C6-PFDA	B7I0142-BS1 OPR 1	5.62e4	98.8	NO
8	8 13C7-PFUnA	B7I0142-BS1 OPR 1	5.74e4	89.7	NO

Name: 170928M3_77, Date: 29-Sep-2017, Time: 07:18:37, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

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Name: 170928M3_78, Date: 29-Sep-2017, Time: 07:29:23, ID: B7I0137-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0137-BLK1 Method Blank 0.25	1.48e4	102.5	NO
2	2 13C5-PFHxA	B7I0137-BLK1 Method Blank 0.25	3.54e4	83.2	NO
3	3 13C3-PFHxS	B7I0137-BLK1 Method Blank 0.25	8.23e3	85.8	NO
4	4 13C8-PFOA	B7I0137-BLK1 Method Blank 0.25	2.95e4	59.1	NO
5	5 13C9-PFNA	B7I0137-BLK1 Method Blank 0.25	3.97e4	60.6	NO
6	6 13C4-PFOS	B7I0137-BLK1 Method Blank 0.25	8.80e3	78.4	NO
7	7 13C6-PFDA	B7I0137-BLK1 Method Blank 0.25	3.41e4	59.9	NO
8	8 13C7-PFUnA	B7I0137-BLK1 Method Blank 0.25	3.38e4	52.9	NO

Name: 170928M3_79, Date: 29-Sep-2017, Time: 07:40:09, ID: B7I0142-BLK1 Method Blank 1, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7I0142-BLK1 Method Blank 1	2.46e4	170.5	YES
2	2 13C5-PFHxA	B7I0142-BLK1 Method Blank 1	5.47e4	128.6	NO
3	3 13C3-PFHxS	B7I0142-BLK1 Method Blank 1	1.00e4	104.3	NO
4	4 13C8-PFOA	B7I0142-BLK1 Method Blank 1	4.81e4	96.4	NO
5	5 13C9-PFNA	B7I0142-BLK1 Method Blank 1	6.52e4	99.5	NO
6	6 13C4-PFOS	B7I0142-BLK1 Method Blank 1	1.15e4	102.1	NO
7	7 13C6-PFDA	B7I0142-BLK1 Method Blank 1	5.50e4	96.6	NO
8	8 13C7-PFUnA	B7I0142-BLK1 Method Blank 1	5.68e4	88.8	NO

Name: 170928M3_80, Date: 29-Sep-2017, Time: 07:50:48, ID: 1701301-01 RI17-MW-4 (59-60)-091917 0.24349, Description: RI17-MW-4 (59-60)-091917

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-01 RI17-MW-4 (59-60)-091...	1.01e4	70.5	NO
2	2 13C5-PFHxA	1701301-01 RI17-MW-4 (59-60)-091...	3.30e4	77.6	NO
3	3 13C3-PFHxS	1701301-01 RI17-MW-4 (59-60)-091...	7.60e3	79.2	NO
4	4 13C8-PFOA	1701301-01 RI17-MW-4 (59-60)-091...	3.16e4	63.3	NO
5	5 13C9-PFNA	1701301-01 RI17-MW-4 (59-60)-091...	4.27e4	65.1	NO
6	6 13C4-PFOS	1701301-01 RI17-MW-4 (59-60)-091...	9.22e3	82.2	NO
7	7 13C6-PFDA	1701301-01 RI17-MW-4 (59-60)-091...	3.45e4	60.6	NO
8	8 13C7-PFUnA	1701301-01 RI17-MW-4 (59-60)-091...	4.60e4	71.9	NO

Name: 170928M3_81, Date: 29-Sep-2017, Time: 08:01:26, ID: 1701301-02 RI17-MW-6 (5-10)-091917 0.24128, Description: RI17-MW-6 (5-10)-091917

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-02 RI17-MW-6 (5-10)-0919...	7.83e3	54.4	NO
2	2 13C5-PFHxA	1701301-02 RI17-MW-6 (5-10)-0919...	3.55e4	83.5	NO
3	3 13C3-PFHxS	1701301-02 RI17-MW-6 (5-10)-0919...	7.90e3	82.3	NO
4	4 13C8-PFOA	1701301-02 RI17-MW-6 (5-10)-0919...	3.11e4	62.4	NO
5	5 13C9-PFNA	1701301-02 RI17-MW-6 (5-10)-0919...	4.28e4	65.3	NO
6	6 13C4-PFOS	1701301-02 RI17-MW-6 (5-10)-0919...	9.63e3	85.8	NO
7	7 13C6-PFDA	1701301-02 RI17-MW-6 (5-10)-0919...	3.48e4	61.2	NO
8	8 13C7-PFUnA	1701301-02 RI17-MW-6 (5-10)-0919...	4.61e4	72.1	NO

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Name: 170928M3_82, Date: 29-Sep-2017, Time: 08:12:05, ID: 1701301-03 RI17-MW-8 (3-8)-092017 0.25036, Description: RI17-MW-8 (3-8)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-03 RI17-MW-8 (3-8)-09201...	1.46e4	101.2	NO
2	2 13C5-PFHxA	1701301-03 RI17-MW-8 (3-8)-09201...	3.76e4	88.4	NO
3	3 13C3-PFHxS	1701301-03 RI17-MW-8 (3-8)-09201...	8.15e3	84.9	NO
4	4 13C8-PFOA	1701301-03 RI17-MW-8 (3-8)-09201...	3.48e4	69.7	NO
5	5 13C9-PFNA	1701301-03 RI17-MW-8 (3-8)-09201...	4.50e4	68.7	NO
6	6 13C4-PFOS	1701301-03 RI17-MW-8 (3-8)-09201...	9.86e3	87.9	NO
7	7 13C6-PFDA	1701301-03 RI17-MW-8 (3-8)-09201...	3.61e4	63.5	NO
8	8 13C7-PFUnA	1701301-03 RI17-MW-8 (3-8)-09201...	4.43e4	69.3	NO

Name: 170928M3_83, Date: 29-Sep-2017, Time: 08:22:51, ID: 1701301-04 RI17-MW-8 (18-19)-092017 0.25491, Description: RI17-MW-8 (18-19)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-04 RI17-MW-8 (18-19)-092...	9.97e3	69.2	NO
2	2 13C5-PFHxA	1701301-04 RI17-MW-8 (18-19)-092...	4.27e4	100.5	NO
3	3 13C3-PFHxS	1701301-04 RI17-MW-8 (18-19)-092...	8.24e3	85.8	NO
4	4 13C8-PFOA	1701301-04 RI17-MW-8 (18-19)-092...	3.70e4	74.3	NO
5	5 13C9-PFNA	1701301-04 RI17-MW-8 (18-19)-092...	4.62e4	70.5	NO
6	6 13C4-PFOS	1701301-04 RI17-MW-8 (18-19)-092...	1.01e4	90.0	NO
7	7 13C6-PFDA	1701301-04 RI17-MW-8 (18-19)-092...	3.89e4	68.4	NO
8	8 13C7-PFUnA	1701301-04 RI17-MW-8 (18-19)-092...	5.00e4	78.2	NO

Name: 170928M3_84, Date: 29-Sep-2017, Time: 08:33:30, ID: 1701301-05 RI17-MW-8 (27.5-28.5)-092017 0.24109, Description: RI17-MW-8 (27.5-28.5)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-05 RI17-MW-8 (27.5-28.5)-...	8.30e3	57.7	NO
2	2 13C5-PFHxA	1701301-05 RI17-MW-8 (27.5-28.5)-...	3.38e4	79.6	NO
3	3 13C3-PFHxS	1701301-05 RI17-MW-8 (27.5-28.5)-...	8.27e3	86.1	NO
4	4 13C8-PFOA	1701301-05 RI17-MW-8 (27.5-28.5)-...	2.99e4	60.0	NO
5	5 13C9-PFNA	1701301-05 RI17-MW-8 (27.5-28.5)-...	4.06e4	61.9	NO
6	6 13C4-PFOS	1701301-05 RI17-MW-8 (27.5-28.5)-...	9.38e3	83.6	NO
7	7 13C6-PFDA	1701301-05 RI17-MW-8 (27.5-28.5)-...	3.46e4	60.8	NO
8	8 13C7-PFUnA	1701301-05 RI17-MW-8 (27.5-28.5)-...	4.17e4	65.1	NO

Name: 170928M3_85, Date: 29-Sep-2017, Time: 08:44:16, ID: 1701301-06 RI17-MW-8 (37-38)-092017 0.25146, Description: RI17-MW-8 (37-38)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-06 RI17-MW-8 (37-38)-092...	1.02e4	71.0	NO
2	2 13C5-PFHxA	1701301-06 RI17-MW-8 (37-38)-092...	4.18e4	98.3	NO
3	3 13C3-PFHxS	1701301-06 RI17-MW-8 (37-38)-092...	7.59e3	79.1	NO
4	4 13C8-PFOA	1701301-06 RI17-MW-8 (37-38)-092...	3.45e4	69.1	NO
5	5 13C9-PFNA	1701301-06 RI17-MW-8 (37-38)-092...	4.71e4	71.9	NO
6	6 13C4-PFOS	1701301-06 RI17-MW-8 (37-38)-092...	9.20e3	82.0	NO
7	7 13C6-PFDA	1701301-06 RI17-MW-8 (37-38)-092...	4.10e4	72.1	NO
8	8 13C7-PFUnA	1701301-06 RI17-MW-8 (37-38)-092...	4.77e4	74.6	NO

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Name: 170928M3_86, Date: 29-Sep-2017, Time: 08:54:54, ID: 1701301-07 RI17-FRB-MW-8-092017 0.25277, Description: RI17-FRB-MW-8-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-07 RI17-FRB-MW-8-09201...	1.75e4	121.7	NO
2	2 13C5-PFHxA	1701301-07 RI17-FRB-MW-8-09201...	4.10e4	96.4	NO
3	3 13C3-PFHxS	1701301-07 RI17-FRB-MW-8-09201...	8.40e3	87.6	NO
4	4 13C8-PFOA	1701301-07 RI17-FRB-MW-8-09201...	3.44e4	69.0	NO
5	5 13C9-PFNA	1701301-07 RI17-FRB-MW-8-09201...	4.45e4	67.9	NO
6	6 13C4-PFOS	1701301-07 RI17-FRB-MW-8-09201...	9.61e3	85.6	NO
7	7 13C6-PFDA	1701301-07 RI17-FRB-MW-8-09201...	3.79e4	66.6	NO
8	8 13C7-PFUnA	1701301-07 RI17-FRB-MW-8-09201...	4.51e4	70.5	NO

Name: 170928M3_87, Date: 29-Sep-2017, Time: 09:05:41, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 17I2814, Description: PFC CS3 17I2814

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-14 PFC CS3 17I2814	2.00e4	138.6	NO
2	2 13C5-PFHxA	ST170928M3-14 PFC CS3 17I2814	6.45e4	151.8	YES
3	3 13C3-PFHxS	ST170928M3-14 PFC CS3 17I2814	1.15e4	120.0	NO
4	4 13C8-PFOA	ST170928M3-14 PFC CS3 17I2814	6.34e4	127.2	NO
5	5 13C9-PFNA	ST170928M3-14 PFC CS3 17I2814	8.53e4	130.1	NO
6	6 13C4-PFOS	ST170928M3-14 PFC CS3 17I2814	1.37e4	121.7	NO
7	7 13C6-PFDA	ST170928M3-14 PFC CS3 17I2814	6.99e4	122.9	NO
8	8 13C7-PFUnA	ST170928M3-14 PFC CS3 17I2814	8.17e4	127.7	NO

Name: 170928M3_89, Date: 29-Sep-2017, Time: 09:27:05, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

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Name: 170928M3_90, Date: 29-Sep-2017, Time: 09:38:54, ID: 1701301-08 RI17-MW-6 (20-21)-092017 0.2177, Description: RI17-MW-6 (20-21)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-08 RI17-MW-6 (20-21)-092...	1.30e4	90.2	NO
2	2 13C5-PFHxA	1701301-08 RI17-MW-6 (20-21)-092...	3.60e4	84.8	NO
3	3 13C3-PFHxS	1701301-08 RI17-MW-6 (20-21)-092...	7.95e3	82.8	NO
4	4 13C8-PFOA	1701301-08 RI17-MW-6 (20-21)-092...	3.30e4	66.2	NO
5	5 13C9-PFNA	1701301-08 RI17-MW-6 (20-21)-092...	4.52e4	68.9	NO
6	6 13C4-PFOS	1701301-08 RI17-MW-6 (20-21)-092...	9.49e3	84.6	NO
7	7 13C6-PFDA	1701301-08 RI17-MW-6 (20-21)-092...	3.69e4	64.8	NO
8	8 13C7-PFUnA	1701301-08 RI17-MW-6 (20-21)-092...	4.37e4	68.4	NO

Name: 170928M3_91, Date: 29-Sep-2017, Time: 09:50:09, ID: 1701301-09 RI17-MW-6 (30-31)-092017 0.25374, Description: RI17-MW-6 (30-31)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-09 RI17-MW-6 (30-31)-092...	1.31e4	90.8	NO
2	2 13C5-PFHxA	1701301-09 RI17-MW-6 (30-31)-092...	3.81e4	89.6	NO
3	3 13C3-PFHxS	1701301-09 RI17-MW-6 (30-31)-092...	8.25e3	86.0	NO
4	4 13C8-PFOA	1701301-09 RI17-MW-6 (30-31)-092...	3.52e4	70.6	NO
5	5 13C9-PFNA	1701301-09 RI17-MW-6 (30-31)-092...	4.44e4	67.7	NO
6	6 13C4-PFOS	1701301-09 RI17-MW-6 (30-31)-092...	1.02e4	90.8	NO
7	7 13C6-PFDA	1701301-09 RI17-MW-6 (30-31)-092...	3.88e4	68.2	NO
8	8 13C7-PFUnA	1701301-09 RI17-MW-6 (30-31)-092...	4.41e4	68.8	NO

Name: 170928M3_92, Date: 29-Sep-2017, Time: 10:00:47, ID: 1701301-10 RI17-MW-6 (40-41)-092017 0.25254, Description: RI17-MW-6 (40-41)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-10 RI17-MW-6 (40-41)-092...	1.09e4	75.6	NO
2	2 13C5-PFHxA	1701301-10 RI17-MW-6 (40-41)-092...	3.30e4	77.7	NO
3	3 13C3-PFHxS	1701301-10 RI17-MW-6 (40-41)-092...	7.52e3	78.4	NO
4	4 13C8-PFOA	1701301-10 RI17-MW-6 (40-41)-092...	2.99e4	60.1	NO
5	5 13C9-PFNA	1701301-10 RI17-MW-6 (40-41)-092...	3.98e4	60.7	NO
6	6 13C4-PFOS	1701301-10 RI17-MW-6 (40-41)-092...	9.36e3	83.4	NO
7	7 13C6-PFDA	1701301-10 RI17-MW-6 (40-41)-092...	3.35e4	58.9	NO
8	8 13C7-PFUnA	1701301-10 RI17-MW-6 (40-41)-092...	3.86e4	60.3	NO

Name: 170928M3_93, Date: 29-Sep-2017, Time: 10:11:34, ID: 1701301-11 RI17-MW-6 (50-51)-092017 0.24963, Description: RI17-MW-6 (50-51)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-11 RI17-MW-6 (50-51)-092...	8.82e3	61.3	NO
2	2 13C5-PFHxA	1701301-11 RI17-MW-6 (50-51)-092...	3.38e4	79.6	NO
3	3 13C3-PFHxS	1701301-11 RI17-MW-6 (50-51)-092...	7.82e3	81.5	NO
4	4 13C8-PFOA	1701301-11 RI17-MW-6 (50-51)-092...	3.12e4	62.6	NO
5	5 13C9-PFNA	1701301-11 RI17-MW-6 (50-51)-092...	4.05e4	61.8	NO
6	6 13C4-PFOS	1701301-11 RI17-MW-6 (50-51)-092...	9.27e3	82.6	NO
7	7 13C6-PFDA	1701301-11 RI17-MW-6 (50-51)-092...	3.39e4	59.6	NO
8	8 13C7-PFUnA	1701301-11 RI17-MW-6 (50-51)-092...	4.75e4	74.2	NO

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Name: 170928M3_94, Date: 29-Sep-2017, Time: 10:22:19, ID: 1701301-12 RI17-MW-29 (2.5-7.5)-092017 0.24864, Description: RI17-MW-29 (2.5-7.5)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-12 RI17-MW-29 (2.5-7.5)-0...	1.10e4	76.6	NO
2	2 13C5-PFHxA	1701301-12 RI17-MW-29 (2.5-7.5)-0...	3.56e4	83.6	NO
3	3 13C3-PFHxS	1701301-12 RI17-MW-29 (2.5-7.5)-0...	8.16e3	85.0	NO
4	4 13C8-PFOA	1701301-12 RI17-MW-29 (2.5-7.5)-0...	3.31e4	66.3	NO
5	5 13C9-PFNA	1701301-12 RI17-MW-29 (2.5-7.5)-0...	4.45e4	67.9	NO
6	6 13C4-PFOS	1701301-12 RI17-MW-29 (2.5-7.5)-0...	9.47e3	84.4	NO
7	7 13C6-PFDA	1701301-12 RI17-MW-29 (2.5-7.5)-0...	3.66e4	64.3	NO
8	8 13C7-PFUnA	1701301-12 RI17-MW-29 (2.5-7.5)-0...	4.93e4	77.0	NO

Name: 170928M3_95, Date: 29-Sep-2017, Time: 10:32:58, ID: 1701301-13 RI17-MW-29 (2.5-7.5)-092017 DUP 0.24693, Description: RI17-MW-29 (2.5-7.5)-092017 DUP

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-13 RI17-MW-29 (2.5-7.5)-0...	1.52e4	105.4	NO
2	2 13C5-PFHxA	1701301-13 RI17-MW-29 (2.5-7.5)-0...	4.28e4	100.7	NO
3	3 13C3-PFHxS	1701301-13 RI17-MW-29 (2.5-7.5)-0...	8.30e3	86.5	NO
4	4 13C8-PFOA	1701301-13 RI17-MW-29 (2.5-7.5)-0...	3.97e4	79.6	NO
5	5 13C9-PFNA	1701301-13 RI17-MW-29 (2.5-7.5)-0...	5.24e4	79.9	NO
6	6 13C4-PFOS	1701301-13 RI17-MW-29 (2.5-7.5)-0...	1.05e4	93.3	NO
7	7 13C6-PFDA	1701301-13 RI17-MW-29 (2.5-7.5)-0...	4.56e4	80.1	NO
8	8 13C7-PFUnA	1701301-13 RI17-MW-29 (2.5-7.5)-0...	6.00e4	93.7	NO

Name: 170928M3_96, Date: 29-Sep-2017, Time: 10:43:45, ID: 1701301-14 RI17-MW-29 (12.5-13.5)-092017 0.25183, Description: RI17-MW-29 (12.5-13.5)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-14 RI17-MW-29 (12.5-13.5...	1.42e4	98.9	NO
2	2 13C5-PFHxA	1701301-14 RI17-MW-29 (12.5-13.5...	4.47e4	105.1	NO
3	3 13C3-PFHxS	1701301-14 RI17-MW-29 (12.5-13.5...	8.27e3	86.1	NO
4	4 13C8-PFOA	1701301-14 RI17-MW-29 (12.5-13.5...	3.94e4	79.1	NO
5	5 13C9-PFNA	1701301-14 RI17-MW-29 (12.5-13.5...	5.17e4	78.8	NO
6	6 13C4-PFOS	1701301-14 RI17-MW-29 (12.5-13.5...	1.04e4	92.6	NO
7	7 13C6-PFDA	1701301-14 RI17-MW-29 (12.5-13.5...	4.36e4	76.6	NO
8	8 13C7-PFUnA	1701301-14 RI17-MW-29 (12.5-13.5...	6.06e4	94.7	NO

Name: 170928M3_97, Date: 29-Sep-2017, Time: 10:54:31, ID: 1701301-15 RI17-MW-29 (24-25)-092017 0.26107, Description: RI17-MW-29 (24-25)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-15 RI17-MW-29 (24-25)-09...	1.21e4	84.0	NO
2	2 13C5-PFHxA	1701301-15 RI17-MW-29 (24-25)-09...	4.53e4	106.6	NO
3	3 13C3-PFHxS	1701301-15 RI17-MW-29 (24-25)-09...	9.21e3	95.9	NO
4	4 13C8-PFOA	1701301-15 RI17-MW-29 (24-25)-09...	3.89e4	78.1	NO
5	5 13C9-PFNA	1701301-15 RI17-MW-29 (24-25)-09...	4.95e4	75.6	NO
6	6 13C4-PFOS	1701301-15 RI17-MW-29 (24-25)-09...	1.05e4	93.8	NO
7	7 13C6-PFDA	1701301-15 RI17-MW-29 (24-25)-09...	4.55e4	80.0	NO
8	8 13C7-PFUnA	1701301-15 RI17-MW-29 (24-25)-09...	5.16e4	80.6	NO

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Name: 170928M3_98, Date: 29-Sep-2017, Time: 11:05:17, ID: 1701301-16 RI17-MW-29 (31-32)-092017 0.25706, Description: RI17-MW-29 (31-32)-092017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701301-16 RI17-MW-29 (31-32)-09...	9.67e3	67.1	NO
2	2 13C5-PFHxA	1701301-16 RI17-MW-29 (31-32)-09...	4.38e4	103.0	NO
3	3 13C3-PFHxS	1701301-16 RI17-MW-29 (31-32)-09...	9.47e3	98.7	NO
4	4 13C8-PFOA	1701301-16 RI17-MW-29 (31-32)-09...	3.75e4	75.1	NO
5	5 13C9-PFNA	1701301-16 RI17-MW-29 (31-32)-09...	4.79e4	73.0	NO
6	6 13C4-PFOS	1701301-16 RI17-MW-29 (31-32)-09...	1.05e4	93.7	NO
7	7 13C6-PFDA	1701301-16 RI17-MW-29 (31-32)-09...	4.18e4	73.5	NO
8	8 13C7-PFUnA	1701301-16 RI17-MW-29 (31-32)-09...	5.50e4	85.9	NO

Name: 170928M3_99, Date: 29-Sep-2017, Time: 11:16:04, ID: 1701305-01 908 0.11854, Description: 908

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701305-01 908 0.11854	2.79e4	193.6	YES
2	2 13C5-PFHxA	1701305-01 908 0.11854	4.62e4	108.7	NO
3	3 13C3-PFHxS	1701305-01 908 0.11854	9.72e3	101.3	NO
4	4 13C8-PFOA	1701305-01 908 0.11854	4.03e4	80.8	NO
5	5 13C9-PFNA	1701305-01 908 0.11854	5.03e4	76.7	NO
6	6 13C4-PFOS	1701305-01 908 0.11854	1.11e4	98.5	NO
7	7 13C6-PFDA	1701305-01 908 0.11854	4.17e4	73.3	NO
8	8 13C7-PFUnA	1701305-01 908 0.11854	2.78e4	43.4	YES

Name: 170928M3_100, Date: 29-Sep-2017, Time: 11:26:42, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA	5.70e0	0.0	NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_101, Date: 29-Sep-2017, Time: 11:37:54, ID: ST170928M3-15 PFC CS3 17I2814, Description: PFC CS3 17I2814

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-15 PFC CS3 17I2814	1.88e4	130.6	NO
2	2 13C5-PFHxA	ST170928M3-15 PFC CS3 17I2814	6.66e4	156.6	YES
3	3 13C3-PFHxS	ST170928M3-15 PFC CS3 17I2814	1.14e4	119.0	NO
4	4 13C8-PFOA	ST170928M3-15 PFC CS3 17I2814	6.33e4	127.0	NO
5	5 13C9-PFNA	ST170928M3-15 PFC CS3 17I2814	8.37e4	127.7	NO
6	6 13C4-PFOS	ST170928M3-15 PFC CS3 17I2814	1.41e4	125.2	NO
7	7 13C6-PFDA	ST170928M3-15 PFC CS3 17I2814	7.46e4	131.1	NO
8	8 13C7-PFUnA	ST170928M3-15 PFC CS3 17I2814	8.46e4	132.2	NO

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Name: 170928M3_102, Date: 29-Sep-2017, Time: 11:49:12, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_103, Date: 29-Sep-2017, Time: 11:59:54, ID: 1701305-02 919 0.11781, Description: 919

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701305-02 919 0.11781	1.97e4	136.7	NO
2	2 13C5-PFHxA	1701305-02 919 0.11781	4.60e4	108.2	NO
3	3 13C3-PFHxS	1701305-02 919 0.11781	9.88e3	103.0	NO
4	4 13C8-PFOA	1701305-02 919 0.11781	3.79e4	76.1	NO
5	5 13C9-PFNA	1701305-02 919 0.11781	5.18e4	79.0	NO
6	6 13C4-PFOS	1701305-02 919 0.11781	1.03e4	91.6	NO
7	7 13C6-PFDA	1701305-02 919 0.11781	4.34e4	76.2	NO
8	8 13C7-PFUnA	1701305-02 919 0.11781	5.66e4	88.4	NO

Name: 170928M3_104, Date: 29-Sep-2017, Time: 12:10:41, ID: 1701305-03 921 0.11352, Description: 921

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701305-03 921 0.11352	2.07e4	143.6	NO
2	2 13C5-PFHxA	1701305-03 921 0.11352	4.64e4	109.0	NO
3	3 13C3-PFHxS	1701305-03 921 0.11352	1.01e4	104.9	NO
4	4 13C8-PFOA	1701305-03 921 0.11352	3.73e4	74.8	NO
5	5 13C9-PFNA	1701305-03 921 0.11352	5.19e4	79.1	NO
6	6 13C4-PFOS	1701305-03 921 0.11352	1.16e4	103.4	NO
7	7 13C6-PFDA	1701305-03 921 0.11352	4.29e4	75.4	NO
8	8 13C7-PFUnA	1701305-03 921 0.11352	5.27e4	82.4	NO

Name: 170928M3_105, Date: 29-Sep-2017, Time: 12:22:07, ID: 1701278-01 MTBE_6193 0.125, Description: MTBE_6193

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701278-01 MTBE_6193 0.125	1.94e4	134.8	NO
2	2 13C5-PFHxA	1701278-01 MTBE_6193 0.125	4.89e4	114.9	NO
3	3 13C3-PFHxS	1701278-01 MTBE_6193 0.125	9.72e3	101.3	NO
4	4 13C8-PFOA	1701278-01 MTBE_6193 0.125	4.46e4	89.4	NO
5	5 13C9-PFNA	1701278-01 MTBE_6193 0.125	5.89e4	89.8	NO
6	6 13C4-PFOS	1701278-01 MTBE_6193 0.125	1.12e4	100.0	NO
7	7 13C6-PFDA	1701278-01 MTBE_6193 0.125	5.00e4	87.8	NO
8	8 13C7-PFUnA	1701278-01 MTBE_6193 0.125	4.92e4	76.8	NO

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Name: 170928M3_106, Date: 29-Sep-2017, Time: 12:32:45, ID: 1701310-01 NB-101S 0.125, Description: NB-101S

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701310-01 NB-101S 0.125	2.31e4	160.5	YES
2	2 13C5-PFHxA	1701310-01 NB-101S 0.125	5.02e4	118.1	NO
3	3 13C3-PFHxS	1701310-01 NB-101S 0.125	9.49e3	98.9	NO
4	4 13C8-PFOA	1701310-01 NB-101S 0.125	4.61e4	92.4	NO
5	5 13C9-PFNA	1701310-01 NB-101S 0.125	6.16e4	93.9	NO
6	6 13C4-PFOS	1701310-01 NB-101S 0.125	1.17e4	104.1	NO
7	7 13C6-PFDA	1701310-01 NB-101S 0.125	5.09e4	89.5	NO
8	8 13C7-PFUnA	1701310-01 NB-101S 0.125	5.96e4	93.1	NO

Name: 170928M3_107, Date: 29-Sep-2017, Time: 12:43:32, ID: 1701310-02 NB-102S 0.125, Description: NB-102S

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701310-02 NB-102S 0.125	2.61e4	181.0	YES
2	2 13C5-PFHxA	1701310-02 NB-102S 0.125	5.18e4	121.9	NO
3	3 13C3-PFHxS	1701310-02 NB-102S 0.125	9.18e3	95.7	NO
4	4 13C8-PFOA	1701310-02 NB-102S 0.125	4.33e4	86.8	NO
5	5 13C9-PFNA	1701310-02 NB-102S 0.125	5.61e4	85.5	NO
6	6 13C4-PFOS	1701310-02 NB-102S 0.125	1.09e4	96.9	NO
7	7 13C6-PFDA	1701310-02 NB-102S 0.125	4.79e4	84.1	NO
8	8 13C7-PFUnA	1701310-02 NB-102S 0.125	5.81e4	90.8	NO

Name: 170928M3_108, Date: 29-Sep-2017, Time: 12:54:11, ID: 1701310-03 NB-105D 0.125, Description: NB-105D

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701310-03 NB-105D 0.125	2.36e4	164.1	YES
2	2 13C5-PFHxA	1701310-03 NB-105D 0.125	5.16e4	121.3	NO
3	3 13C3-PFHxS	1701310-03 NB-105D 0.125	9.25e3	96.4	NO
4	4 13C8-PFOA	1701310-03 NB-105D 0.125	4.47e4	89.7	NO
5	5 13C9-PFNA	1701310-03 NB-105D 0.125	5.74e4	87.5	NO
6	6 13C4-PFOS	1701310-03 NB-105D 0.125	1.11e4	99.2	NO
7	7 13C6-PFDA	1701310-03 NB-105D 0.125	4.96e4	87.2	NO
8	8 13C7-PFUnA	1701310-03 NB-105D 0.125	5.95e4	92.9	NO

Name: 170928M3_109, Date: 29-Sep-2017, Time: 13:04:49, ID: 1701310-04 DUPLICATE 0.125, Description: DUPLICATE

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701310-04 DUPLICATE 0.125	3.06e4	212.3	YES
2	2 13C5-PFHxA	1701310-04 DUPLICATE 0.125	5.57e4	130.9	NO
3	3 13C3-PFHxS	1701310-04 DUPLICATE 0.125	9.29e3	96.8	NO
4	4 13C8-PFOA	1701310-04 DUPLICATE 0.125	4.62e4	92.6	NO
5	5 13C9-PFNA	1701310-04 DUPLICATE 0.125	5.92e4	90.2	NO
6	6 13C4-PFOS	1701310-04 DUPLICATE 0.125	1.16e4	103.4	NO
7	7 13C6-PFDA	1701310-04 DUPLICATE 0.125	5.10e4	89.7	NO
8	8 13C7-PFUnA	1701310-04 DUPLICATE 0.125	5.79e4	90.4	NO

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Name: 170928M3_110, Date: 29-Sep-2017, Time: 13:15:27, ID: 1701310-05 PFAS FIELD BLANK 0.125, Description: PFAS FIELD BLANK

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701310-05 PFAS FIELD BLANK 0....	3.07e4	213.4	YES
2	2 13C5-PFHxA	1701310-05 PFAS FIELD BLANK 0....	4.86e4	114.3	NO
3	3 13C3-PFHxS	1701310-05 PFAS FIELD BLANK 0....	8.94e3	93.2	NO
4	4 13C8-PFOA	1701310-05 PFAS FIELD BLANK 0....	4.32e4	86.7	NO
5	5 13C9-PFNA	1701310-05 PFAS FIELD BLANK 0....	5.86e4	89.3	NO
6	6 13C4-PFOS	1701310-05 PFAS FIELD BLANK 0....	1.10e4	98.1	NO
7	7 13C6-PFDA	1701310-05 PFAS FIELD BLANK 0....	5.16e4	90.7	NO
8	8 13C7-PFUnA	1701310-05 PFAS FIELD BLANK 0....	6.17e4	96.4	NO

Name: 170928M3_111, Date: 29-Sep-2017, Time: 13:26:14, ID: 1701311-01 MTBE_7214 0.125, Description: MTBE_7214

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701311-01 MTBE_7214 0.125	2.29e4	158.8	YES
2	2 13C5-PFHxA	1701311-01 MTBE_7214 0.125	4.60e4	108.3	NO
3	3 13C3-PFHxS	1701311-01 MTBE_7214 0.125	8.58e3	89.4	NO
4	4 13C8-PFOA	1701311-01 MTBE_7214 0.125	3.81e4	76.5	NO
5	5 13C9-PFNA	1701311-01 MTBE_7214 0.125	5.19e4	79.1	NO
6	6 13C4-PFOS	1701311-01 MTBE_7214 0.125	1.06e4	94.3	NO
7	7 13C6-PFDA	1701311-01 MTBE_7214 0.125	4.33e4	76.2	NO
8	8 13C7-PFUnA	1701311-01 MTBE_7214 0.125	4.68e4	73.2	NO

Name: 170928M3_112, Date: 29-Sep-2017, Time: 13:36:53, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Name: 170928M3_113, Date: 29-Sep-2017, Time: 13:47:31, ID: ST170928M3-16 PFC CS3 17I2814, Description: PFC CS3 17I2814

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST170928M3-16 PFC CS3 17I2814	2.18e4	151.2	YES
2	2 13C5-PFHxA	ST170928M3-16 PFC CS3 17I2814	6.87e4	161.7	YES
3	3 13C3-PFHxS	ST170928M3-16 PFC CS3 17I2814	1.13e4	117.4	NO
4	4 13C8-PFOA	ST170928M3-16 PFC CS3 17I2814	6.39e4	128.1	NO
5	5 13C9-PFNA	ST170928M3-16 PFC CS3 17I2814	8.19e4	124.9	NO
6	6 13C4-PFOS	ST170928M3-16 PFC CS3 17I2814	1.36e4	121.3	NO
7	7 13C6-PFDA	ST170928M3-16 PFC CS3 17I2814	7.28e4	127.9	NO
8	8 13C7-PFUnA	ST170928M3-16 PFC CS3 17I2814	8.45e4	132.0	NO

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:23:57 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:30:15 Pacific Daylight Time

Name: 170928M3_114, Date: 29-Sep-2017, Time: 13:58:09, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

Last Altered: Friday, September 29, 2017 10:10:18 Pacific Daylight Time

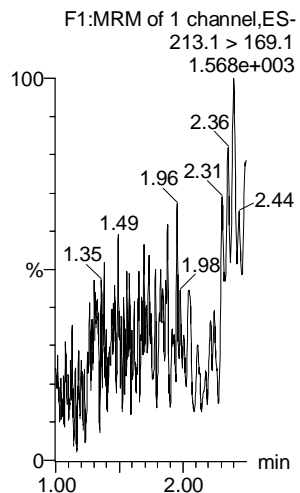
Printed: Friday, September 29, 2017 10:10:36 Pacific Daylight Time

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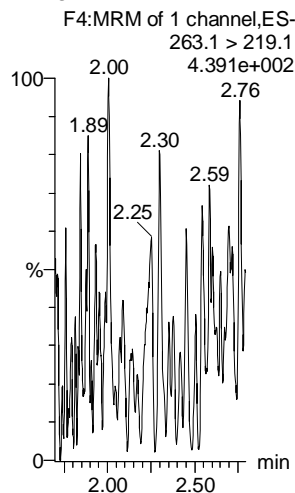
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Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

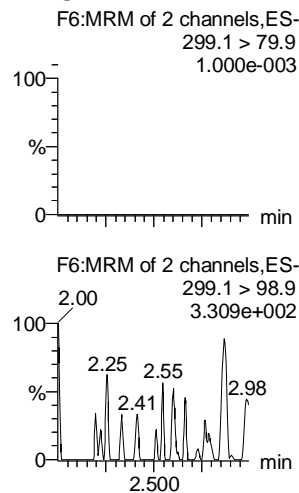
PFBA



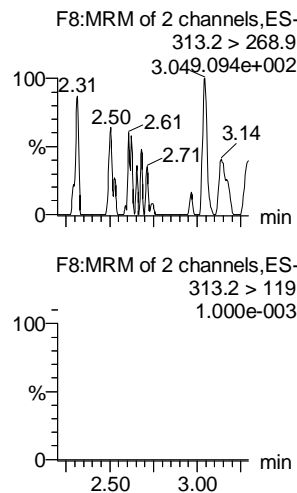
PFPeA



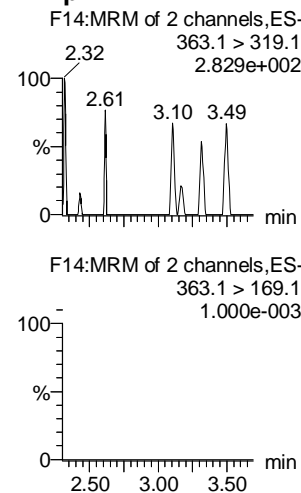
PFBS



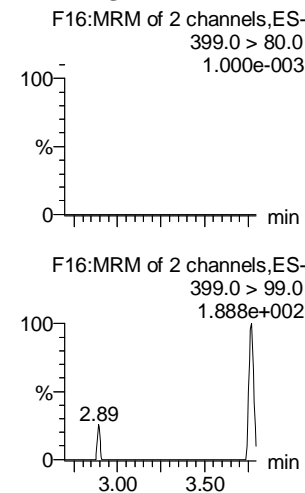
PFHxA



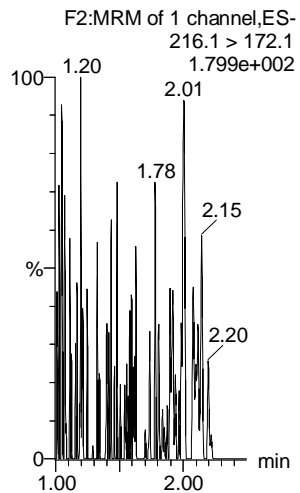
PFHpA



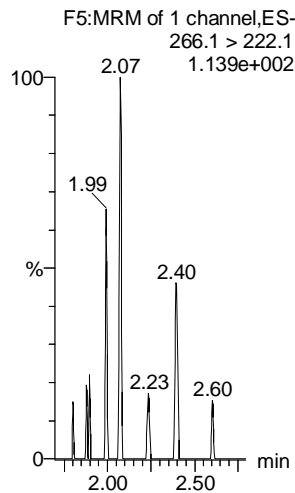
L-PFHxS



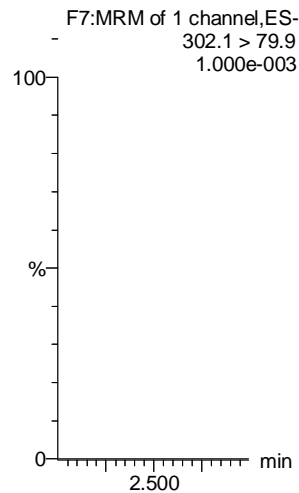
13C3-PFBA



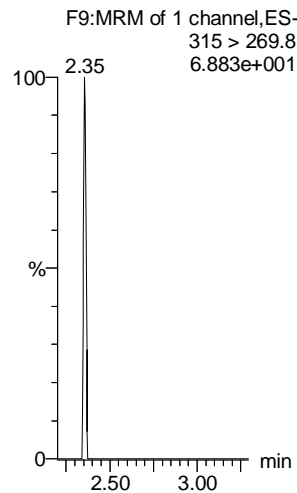
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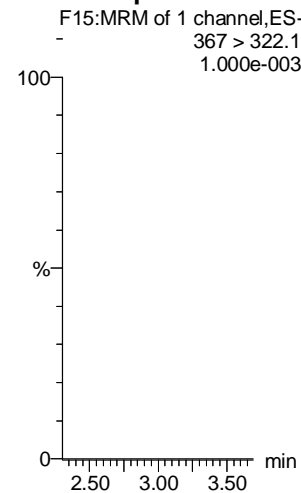
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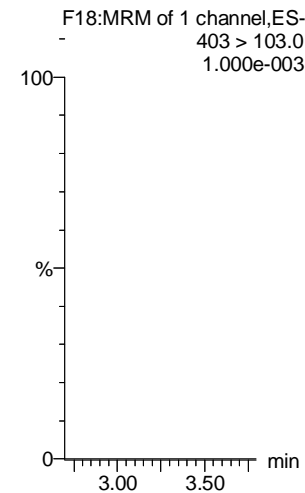
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



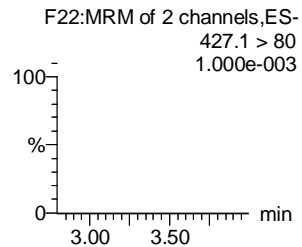
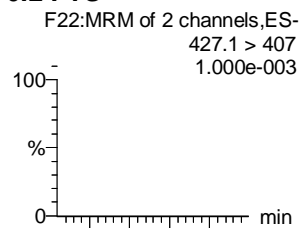
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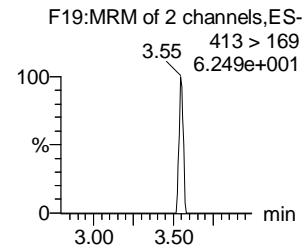
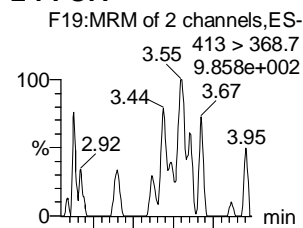
Printed: Friday, September 29, 2017 10:10:36 Pacific Daylight Time

Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

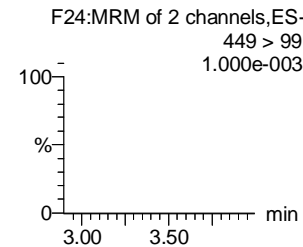
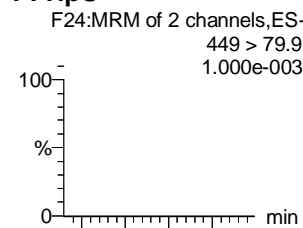
6:2 FTS



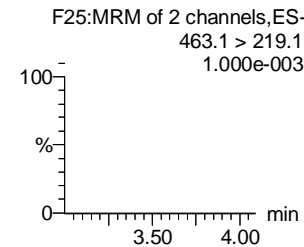
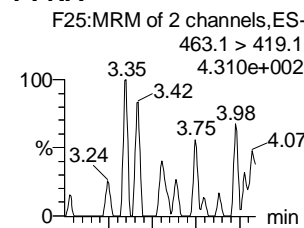
L-PFOA



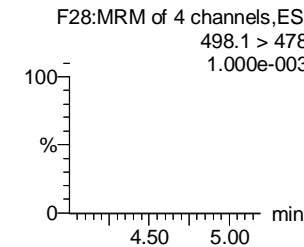
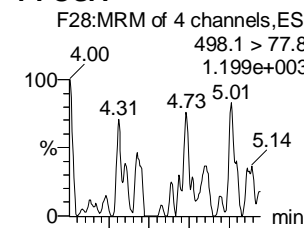
PFHpS



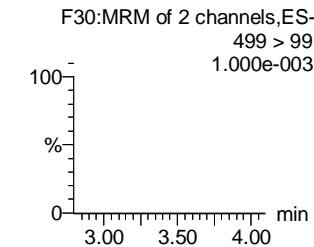
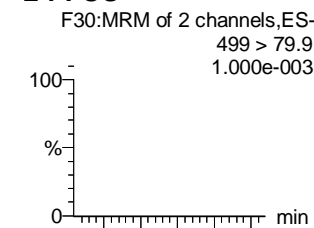
PFNA



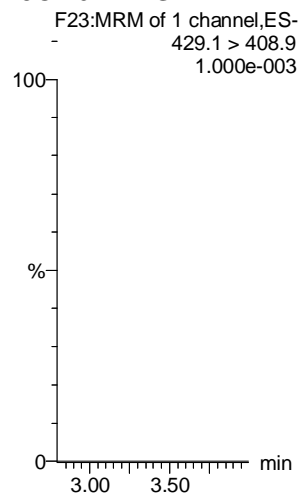
PFOSA



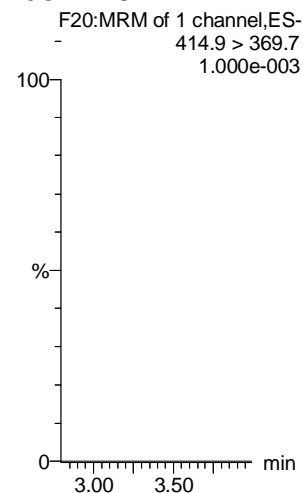
L-PFOS



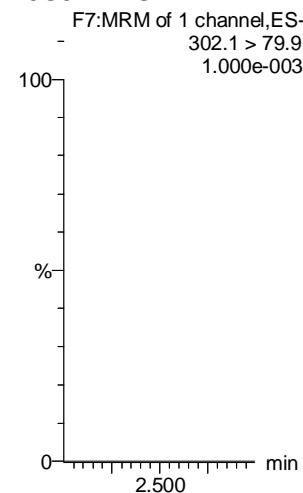
13C2-6:2 FTS



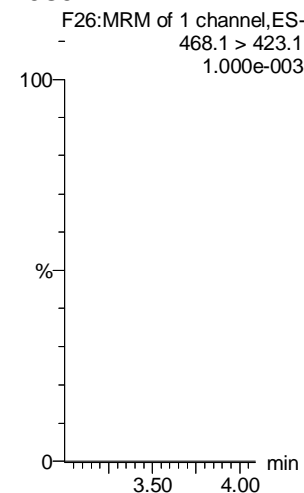
13C2-PFOA



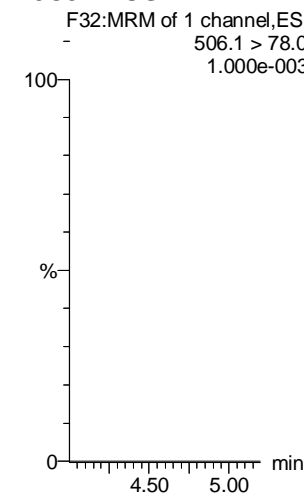
13C3-PFBS



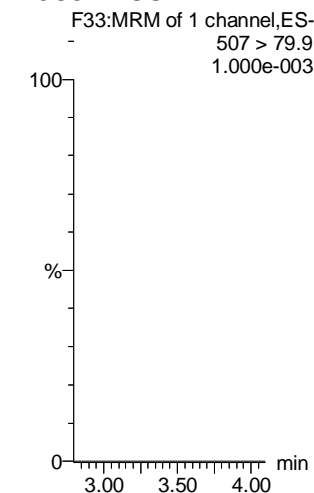
13C5-PFNA



13C8-PFOSA



13C8-PFOS



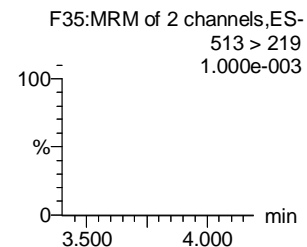
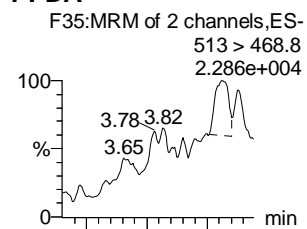
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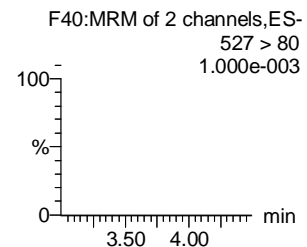
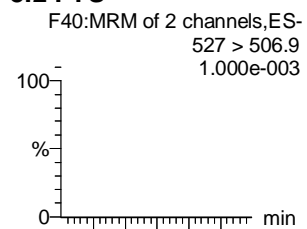
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Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

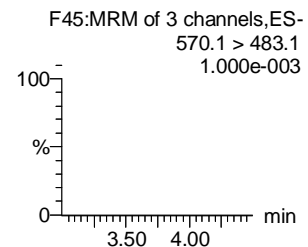
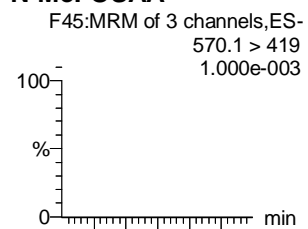
PFDA



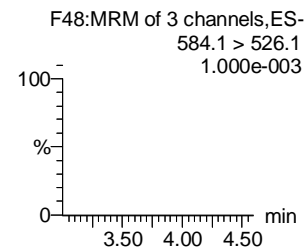
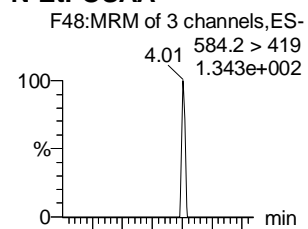
8:2 FTS



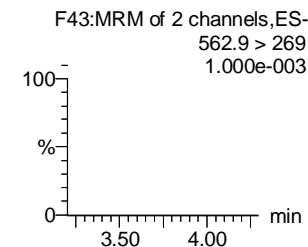
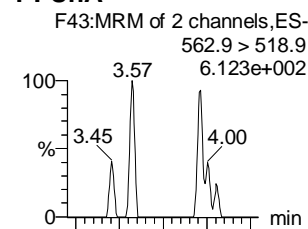
N-MeFOSAA



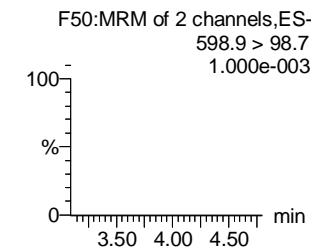
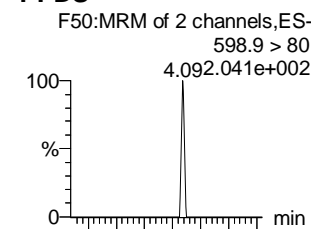
N-EtFOSAA



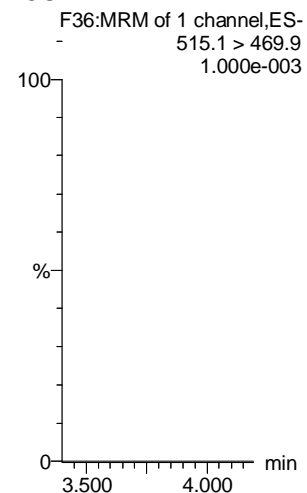
PFUnA



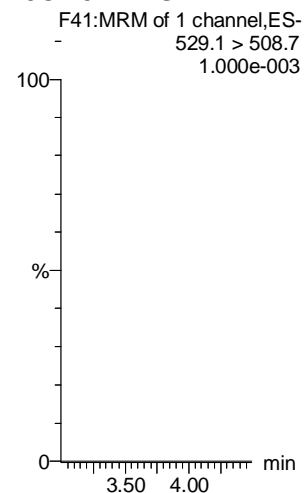
PFDS



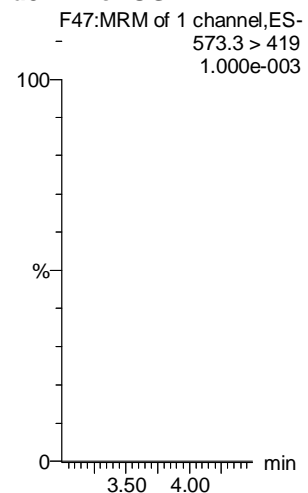
13C2-PFDA



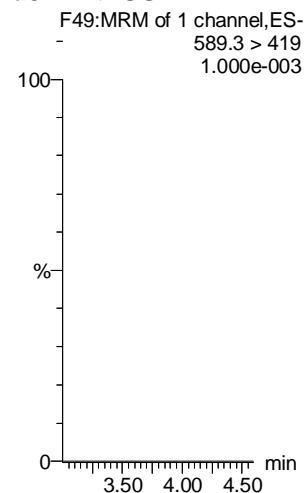
13C2-8:2 FTS



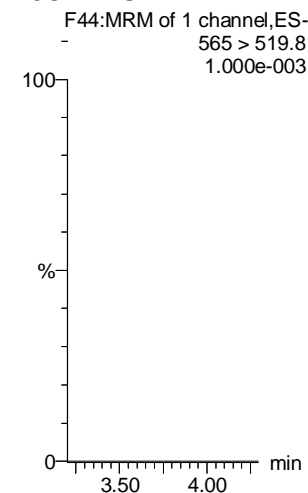
d3-N-MeFOSAA



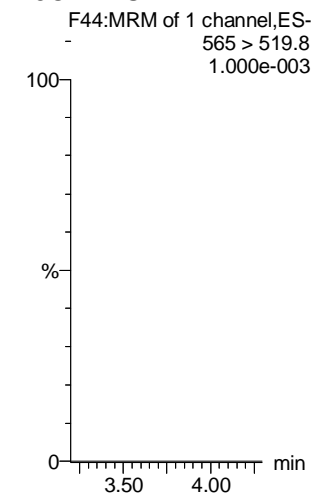
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

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Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

PFDoA

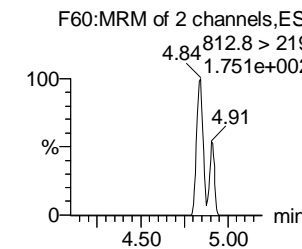
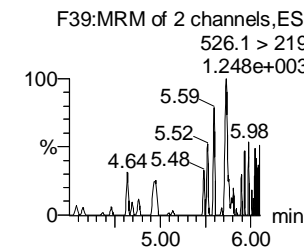
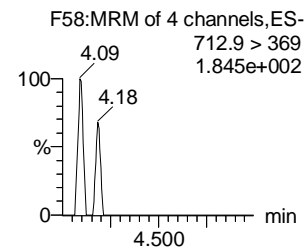
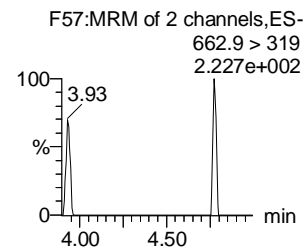
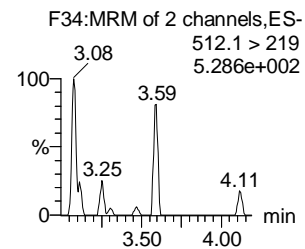
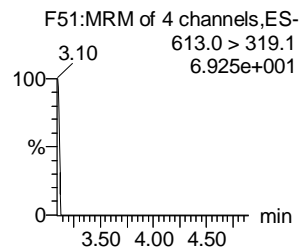
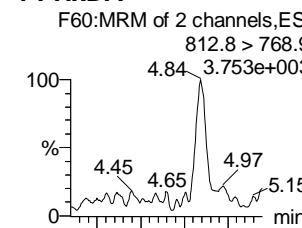
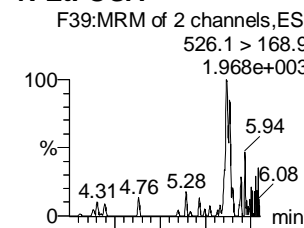
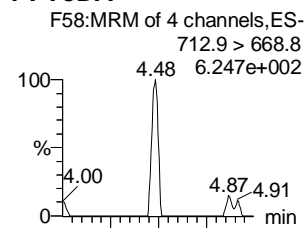
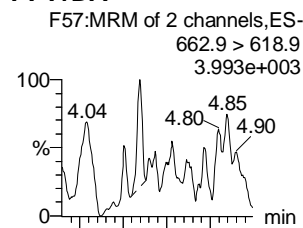
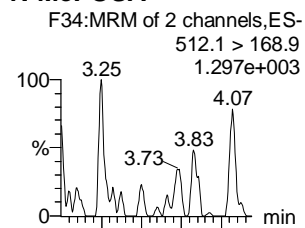
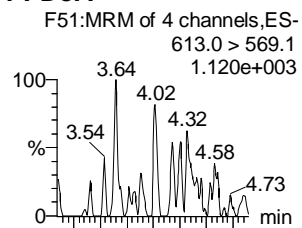
N-MeFOSA

PFTrDA

PFTeDA

N-EtFOSA

PFHxDA



13C2-PFDoA

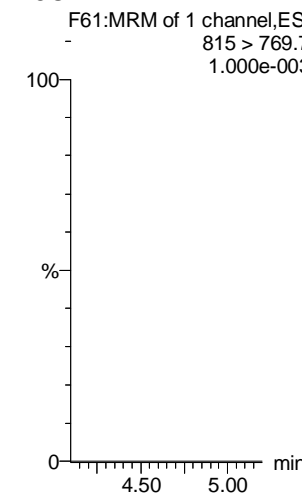
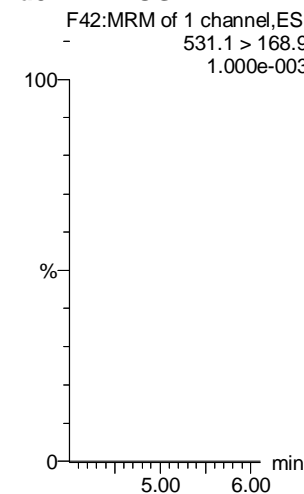
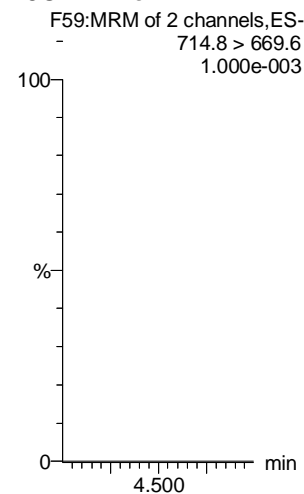
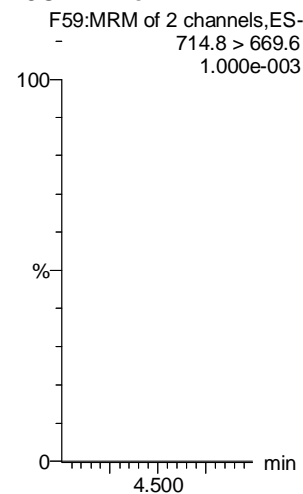
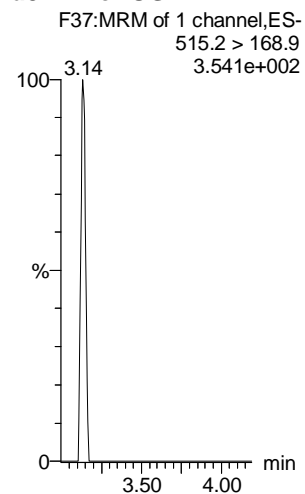
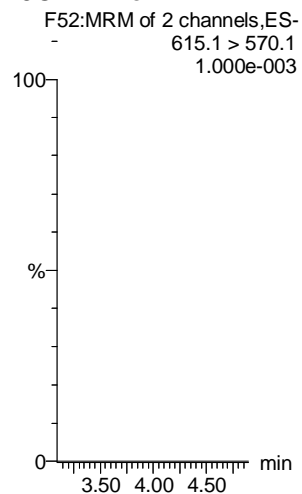
d3-N-MeFOSA

13C2-PFTeDA

13C2-PFTeDA

d5-N-ETFOSA

13C2-PFHxDA



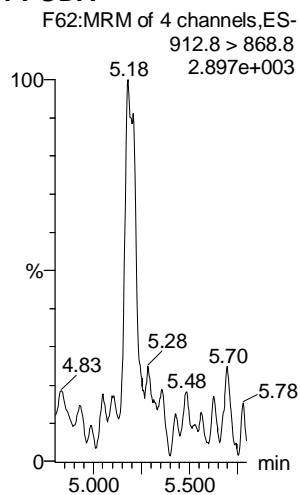
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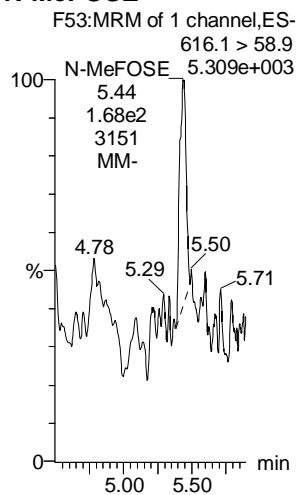
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Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

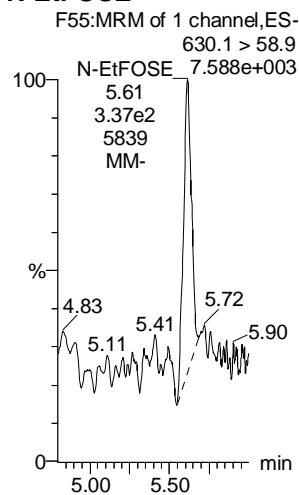
PFODA



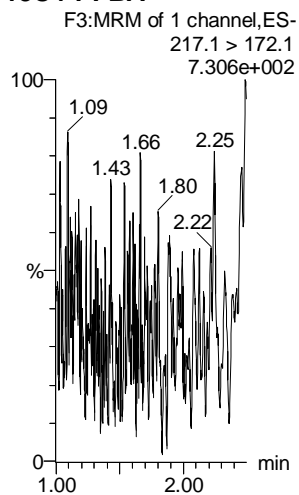
N-MeFOSE



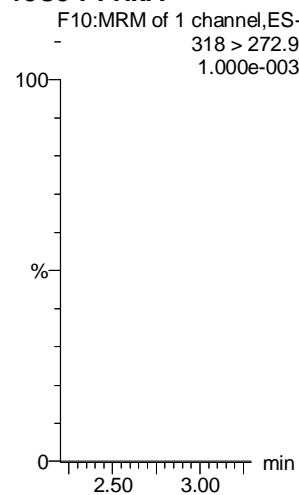
N-EtFOSE



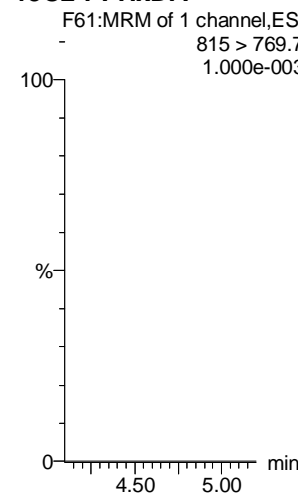
13C4-PFBA



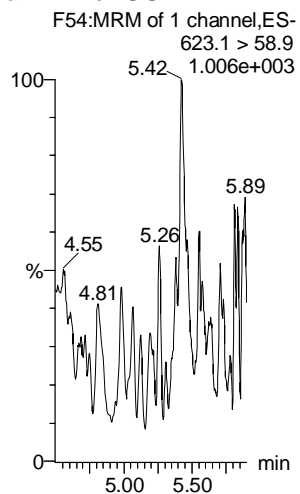
13C5-PFHxA



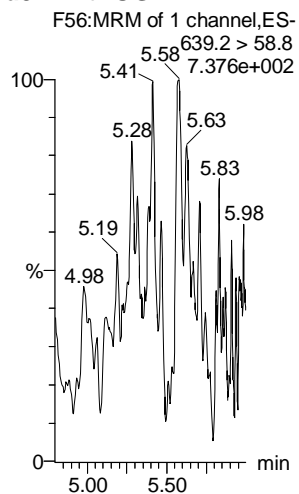
13C2-PFHxDA



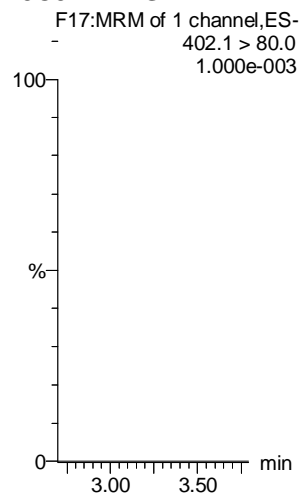
d7-N-MeFOSE



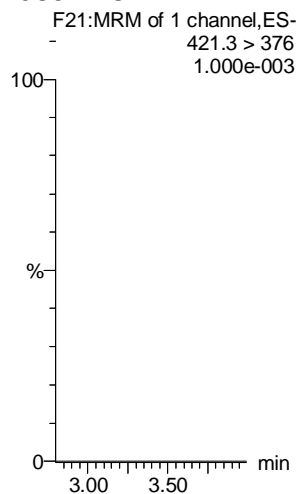
d9-N-EtFOSE



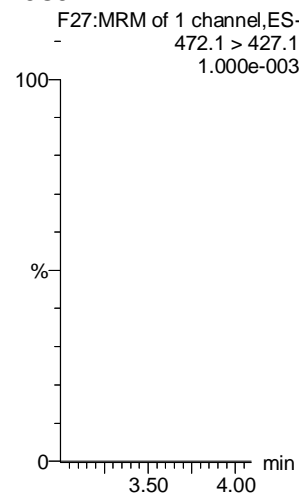
13C3-PFHxS



13C8-PFOA



13C9-PFNA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

Last Altered: Friday, September 29, 2017 10:10:18 Pacific Daylight Time

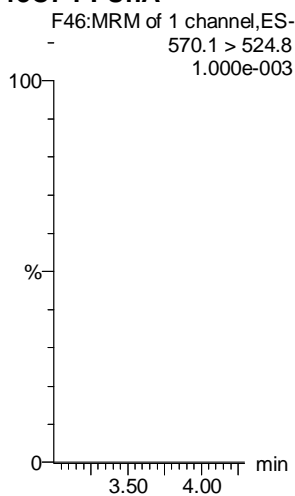
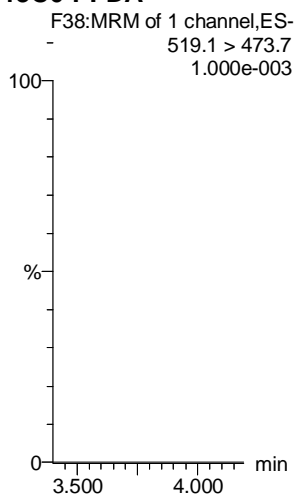
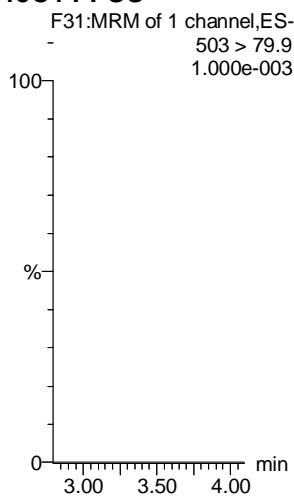
Printed: Friday, September 29, 2017 10:10:36 Pacific Daylight Time

Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

13C4-PFOS

13C6-PFDA

13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:26:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.39e4	1.56e4		1.27	1.27	11.1	9.80	98.0
2	2 PFPeA	263.1 > 219.1	2.52e4	2.97e4		2.46	2.51	10.6	10.1	101.1
3	3 PFBS	299.1 > 79.9	6.21e3	7.35e3		2.76	2.79	10.6	10.2	101.9
4	4 PFHxA	313.2 > 268.9	4.86e4	1.52e4		3.04	3.07	15.9	9.96	99.6
5	5 PFHpA	363.1 > 319.1	7.44e4	8.91e4		3.33	3.36	10.4	10.5	105.4
6	6 L-PFHxS	399.0 > 80.0	9.72e3	5.62e3		3.41	3.43	21.6	9.04	90.4
7	8 6:2 FTS	427.1 > 407	6.50e3	6.77e3		3.54	3.56	12.0	9.95	99.5
8	9 L-PFOA	413 > 368.7	6.20e4	7.28e4		3.54	3.57	10.7	10.2	102.4
9	11 PFHpS	449 > 79.9	1.04e4	7.28e4		3.60	3.63	1.79	9.89	98.9
10	12 PFNA	463.1 > 419.1	6.52e4	6.94e4		3.72	3.75	11.7	10.5	104.9
11	13 PFOSA	498.1 > 77.8	3.01e4	3.68e4		4.75	4.76	10.2	9.52	95.2
12	14 L-PFOS	499 > 79.9	1.22e4	1.34e4		3.77	3.80	11.4	9.85	98.5
13	16 PFDA	513 > 468.8	7.05e4	6.30e4		3.89	3.91	14.0	9.91	99.1
14	17 8:2 FTS	527 > 506.9	7.22e3	5.98e3		3.88	3.91	15.1	9.99	99.9
15	18 N-MeFOSAA	570.1 > 419	8.25e3	6.18e3		3.92	3.95	217	10.3	103.0
16	19 N-EtFOSAA	584.2 > 419	6.87e3	7.27e3		3.99	4.03	154	9.26	92.6
17	20 PFUnA	562.9 > 518.9	3.49e4	7.63e4		4.04	4.07	5.72	9.64	96.4
18	21 PFDS	598.9 > 80	1.09e4	7.63e4		4.08	4.11	1.79	9.17	91.7
19	22 PFDoA	613.0 > 569.1	7.18e4	7.51e4		4.19	4.22	11.9	9.85	98.5
20	24 PFTrDA	662.9 > 618.9	4.53e4	7.51e4		4.34	4.37	7.53	10.7	106.6
21	25 PFTeDA	712.9 > 668.8	2.50e4	2.60e4		4.49	4.53	12.0	10.7	106.9
22	26 N-EtFOSA	526.1 > 168.9	4.98e4	1.53e5		5.73	5.74	48.9	53.3	106.7
23	27 PFHxDA	812.8 > 768.9	5.24e4	1.74e4		4.83	4.88	15.0	9.77	97.7
24	28 PFODA	912.8 > 868.8	4.02e4	1.74e4		5.18	5.22	11.5	11.0	110.2
25	29 N-MeFOSE	616.1 > 58.9	1.22e5	3.37e5		5.43	5.44	54.4	53.7	107.5
26	30 N-EtFOSE	630.1 > 58.9	1.28e5	3.15e5		5.60	5.62	61.0	52.0	104.1
27	31 13C3-PFBA	216.1 > 172.1	1.56e4	1.74e4	0.860	1.27	1.28	11.2	13.0	104.2
28	32 13C3-PFPeA	266.1 > 222.1	2.97e4	5.32e4	0.227	2.46	2.52	2.79	12.3	98.2
29	33 13C3-PFBS	302.1 > 79.9	7.35e3	5.32e4	0.056	2.76	2.79	0.691	12.4	99.0
30	34 13C2-PFHxA	315 > 269.8	1.52e4	5.32e4	0.279	3.04	3.07	1.43	5.14	102.8
31	35 13C4-PFHpA	367 > 322.1	8.91e4	5.32e4	0.719	3.33	3.36	8.37	11.7	93.2
32	36 18O2-PFHxS	403 > 103.0	5.62e3	1.16e4	0.477	3.41	3.43	6.07	12.7	101.8

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:26:02 Pacific Daylight Time

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37 13C2-6:2 FTS	429.1 > 408.9	6.77e3	6.16e4	0.129	3.54	3.56	1.37	10.6	85.0
34	38 13C2-PFOA	414.9 > 369.7	7.28e4	6.16e4	1.167	3.54	3.57	14.8	12.7	101.3
35	39 13C5-PFNA	468.1 > 423.1	6.94e4	8.17e4	0.856	3.72	3.75	10.6	12.4	99.2
36	40 13C8-PFOA	506.1 > 78.0	3.68e4	7.93e4	0.467	4.75	4.76	5.80	12.4	99.4
37	41 13C8-PFOS	507 > 79.9	1.34e4	1.43e4	0.983	3.77	3.80	11.7	11.9	95.5
38	42 13C2-PFDA	515.1 > 469.9	6.30e4	6.97e4	0.859	3.89	3.91	11.3	13.1	105.2
39	43 13C2-8:2 FTS	529.1 > 508.7	5.98e3	6.97e4	0.091	3.88	3.91	1.07	11.7	93.8
40	44 d3-N-MeFOSAA	573.3 > 419	6.18e3	7.93e4	0.007	3.92	3.95	0.973	149	91.9
41	45 d5-N-EtFOSAA	589.3 > 419	7.27e3	7.93e4	0.007	3.99	4.02	1.14	161	99.0
42	46 13C2-PFUnA	565 > 519.8	7.63e4	7.93e4	0.938	4.04	4.07	12.0	12.8	102.5
43	47 13C2-PFDoA	615.1 > 570.1	7.51e4	7.93e4	0.966	4.19	4.22	11.8	12.3	98.0

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:26:07 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.60e4	7.93e4	0.362	4.49	4.53	4.10	11.3	90.5
2	50 d5-N-ETFOSA	531.1 > 168.9	1.53e5	7.93e4	0.169	5.73	5.73	24.1	142	94.9
3	51 13C2-PFHxDA	815 > 769.7	1.74e4	7.93e4	0.596	4.83	4.88	2.74	4.61	92.1
4	52 d7-N-MeFOSE	623.1 > 58.9	3.37e5	7.93e4	0.379	5.43	5.43	53.1	140	93.3
5	53 d9-N-EtFOSE	639.2 > 58.8	3.15e5	7.93e4	0.351	5.60	5.60	49.7	141	94.3
6	54 13C4-PFBA	217.1 > 172.1	1.74e4	1.74e4	1.000	1.27	1.27	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	5.32e4	5.32e4	1.000	3.04	3.07	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	1.16e4	1.16e4	1.000	3.41	3.43	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	6.16e4	6.16e4	1.000	3.54	3.57	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	8.17e4	8.17e4	1.000	3.72	3.75	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.43e4	1.43e4	1.000	3.77	3.80	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	6.97e4	6.97e4	1.000	3.89	3.91	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	7.93e4	7.93e4	1.000	4.04	4.07	12.5	12.5	100.0

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Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928M3_1	IPA	28-Sep-17	17:43:51
2	170928M3_2	ST170928M3-1 PFC CS-2 17I2809	28-Sep-17	17:54:38
3	170928M3_3	ST170928M3-2 PFC CS-1 17I2810	28-Sep-17	18:05:24
4	170928M3_4	ST170928M3-3 PFC CS0 17I2811	28-Sep-17	18:16:11
5	170928M3_5	ST170928M3-4 PFC CS1 17I2812	28-Sep-17	18:26:58
6	170928M3_6	ST170928M3-5 PFC CS2 17I2813	28-Sep-17	18:37:36
7	170928M3_7	ST170928M3-6 PFC CS3 17I2814	28-Sep-17	18:48:22
8	170928M3_8	ST170928M3-7 PFC CS4 17I2815	28-Sep-17	18:59:01
9	170928M3_9	ST170928M3-8 PFC CS5 17I2816	28-Sep-17	19:09:47
10	170928M3_10	ST170928M3-9 PFC CS6 17I2817	28-Sep-17	19:20:33
11	170928M3_11	ST170928M3-10 PFC CS7 17I2818	28-Sep-17	19:31:12
12	170928M3_12	IPA	28-Sep-17	19:41:51
13	170928M3_13	ICV170928M3-1 PFC ICV 17I2808	28-Sep-17	19:52:37
14	170928M3_14	B7I0135-BS1 OPR 0.25	28-Sep-17	20:03:15
15	170928M3_15	B7I0136-BS1 OPR 0.125	28-Sep-17	20:13:54
16	170928M3_16	IPA	28-Sep-17	20:24:40
17	170928M3_17	B7I0125-BLK1 Method Blank 1	28-Sep-17	20:35:18
18	170928M3_18	B7I0135-BLK1 Method Blank 0.25	28-Sep-17	20:45:58
19	170928M3_19	B7I0136-BLK1 Method Blank 0.125	28-Sep-17	20:56:55
20	170928M3_20	B7I0125-BS2 OPR 1	28-Sep-17	21:07:41
21	170928M3_21	B7I0125-BS3 OPR 1	28-Sep-17	21:18:20
22	170928M3_22	B7I0125-BS4 OPR 1	28-Sep-17	21:29:06
23	170928M3_23	B7I0125-BS5 OPR 1	28-Sep-17	21:39:45
24	170928M3_24	IPA	28-Sep-17	21:50:23
25	170928M3_25	1701293-01 LORNG-SW18001-091817 0.10707	28-Sep-17	22:01:09
26	170928M3_26	1701293-02 LORNG-SWDR001-091817 0.114...	28-Sep-17	22:11:48
27	170928M3_27	1701293-03 LORNG-SWDR002-091817 0.115...	28-Sep-17	22:22:34
28	170928M3_28	1701293-04 LORNG-SWNP001-091817 0.114...	28-Sep-17	22:33:12
29	170928M3_29	1701300-01 RI17-MW-3 (2-7)-091917 0.25556	28-Sep-17	22:43:59
30	170928M3_30	1701300-02 RI17-MW-3 (16-17)-091917 0.256...	28-Sep-17	22:54:38
31	170928M3_31	1701300-03 RI17-MW-3 (26-27)-091917 0.2598	28-Sep-17	23:05:24
32	170928M3_32	1701300-04 RI17-MW-3 (36-37)-091917 0.251...	28-Sep-17	23:16:11

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time
 Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
33	170928M3_33	1701300-05 RI17-MW-3 (46-47)-091917 0.260...	28-Sep-17	23:26:57
34	170928M3_34	1701300-06 RI17-MW-4 (5-10)-091917 0.25114	28-Sep-17	23:37:38
35	170928M3_35	IPA	28-Sep-17	23:48:23
36	170928M3_36	ST170928M3-11 PFC CS3 17I2814	28-Sep-17	23:59:09
37	170928M3_37	IPA	29-Sep-17	00:09:47
38	170928M3_38	1701300-07 RI17-MW-4 (19-20)-091917 0.249...	29-Sep-17	00:20:25
39	170928M3_39	1701300-08 RI17-MW-4 (29-30)-091917 0.253...	29-Sep-17	00:31:12
40	170928M3_40	1701300-09 RI17-MW-4 (39-40)-091917 0.254...	29-Sep-17	00:41:54
41	170928M3_41	1701300-10 RI17-MW-4 (49-50)-091917 0.26	29-Sep-17	00:52:42
42	170928M3_42	1701294-01 RI17-DISTH2O-MW-1-091817 0.1...	29-Sep-17	01:03:23
43	170928M3_43	1701294-02 RI17-FRB-MW-1-091817 0.125	29-Sep-17	01:14:10
44	170928M3_44	1701294-03 RI17-5006-MW-1-091817 0.125	29-Sep-17	01:24:56
45	170928M3_45	1701294-04 RI17-5171-MW-1-091817 0.125	29-Sep-17	01:35:43
46	170928M3_46	1701294-05 RI17-EB-MW-1-091817 0.125	29-Sep-17	01:46:29
47	170928M3_47	1701294-06 RI17-MW-1(3-8)-091817 0.125	29-Sep-17	01:57:07
48	170928M3_48	1701294-07 RI17-MW-1(3-8)-091817 Dup 0.125	29-Sep-17	02:07:54
49	170928M3_49	1701294-08 RI17-MW-1(17-18)-091917 0.125	29-Sep-17	02:18:33
50	170928M3_50	IPA	29-Sep-17	02:29:11
51	170928M3_51	ST170928M3-12 PFC CS3 17I2814	29-Sep-17	02:39:49
52	170928M3_52	IPA	29-Sep-17	02:50:28
53	170928M3_53	1701294-09 RI17-MW-2(2-7)-091917 0.125	29-Sep-17	03:01:14
54	170928M3_54	1701294-10 RI17-MW-2(12-13)-091917 0.125	29-Sep-17	03:11:52
55	170928M3_55	1701294-11 RI17-MW-2(17-18)-091917 0.125	29-Sep-17	03:22:39
56	170928M3_56	1701294-12 VAS-RI17-B21(108-110FT) 0.125	29-Sep-17	03:33:17
57	170928M3_57	1701294-13 VAS-RI17-B21(69-71FT) 0.125	29-Sep-17	03:44:04
58	170928M3_58	1701294-14 VAS-RI17-B21(61-63FT) 0.125	29-Sep-17	03:54:42
59	170928M3_59	1701294-15 VAS-RI17-B21(61-63FT) Dup 0.125	29-Sep-17	04:05:21
60	170928M3_60	1701294-16 Pond 1-2 @ Dam PD 0.125	29-Sep-17	04:16:11
61	170928M3_61	1701294-17 SW-VEL L4 0.125	29-Sep-17	04:26:53
62	170928M3_62	B7I0026-BS3	29-Sep-17	04:37:40
63	170928M3_63	B7I0026-BS4	29-Sep-17	04:48:18
64	170928M3_64	B7I0026-BS5	29-Sep-17	04:59:05
65	170928M3_65	IPA	29-Sep-17	05:09:51
66	170928M3_66	1701279-03 MH-117T-20170918 0.125	29-Sep-17	05:20:30
67	170928M3_67	IPA	29-Sep-17	05:31:16
68	170928M3_68	ST170928M3-13 PFC CS0 17I2811	29-Sep-17	05:41:54

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
69	170928M3_69	IPA	29-Sep-17	05:52:41
70	170928M3_70	1701279-11 MH-140N-20170918 0.125	29-Sep-17	06:03:19
71	170928M3_71	1701279-12 INTERCEPTOR SUMP-2017091...	29-Sep-17	06:13:58
72	170928M3_72	1701279-15 SPRING-20170918 0.125	29-Sep-17	06:24:36
73	170928M3_73	IPA	29-Sep-17	06:35:15
74	170928M3_74	MB TESTER	29-Sep-17	06:46:01
75	170928M3_75	B7I0137-BS1 OPR 0.25	29-Sep-17	06:56:48
76	170928M3_76	B7I0142-BS1 OPR 1	29-Sep-17	07:07:51
77	170928M3_77	IPA	29-Sep-17	07:18:37
78	170928M3_78	B7I0137-BLK1 Method Blank 0.25	29-Sep-17	07:29:23
79	170928M3_79	B7I0142-BLK1 Method Blank 1	29-Sep-17	07:40:09
80	170928M3_80	1701301-01 RI17-MW-4 (59-60)-091917 0.243...	29-Sep-17	07:50:48
81	170928M3_81	1701301-02 RI17-MW-6 (5-10)-091917 0.24128	29-Sep-17	08:01:26
82	170928M3_82	1701301-03 RI17-MW-8 (3-8)-092017 0.25036	29-Sep-17	08:12:05
83	170928M3_83	1701301-04 RI17-MW-8 (18-19)-092017 0.254...	29-Sep-17	08:22:51
84	170928M3_84	1701301-05 RI17-MW-8 (27.5-28.5)-092017 0....	29-Sep-17	08:33:30
85	170928M3_85	1701301-06 RI17-MW-8 (37-38)-092017 0.251...	29-Sep-17	08:44:16
86	170928M3_86	1701301-07 RI17-FRB-MW-8-092017 0.25277	29-Sep-17	08:54:54
87	170928M3_87	IPA	29-Sep-17	09:05:41
88	170928M3_88	ST170928M3-14 PFC CS3 17I2814	29-Sep-17	09:16:19
89	170928M3_89	IPA	29-Sep-17	09:27:05
90	170928M3_90	1701301-08 RI17-MW-6 (20-21)-092017 0.2177	29-Sep-17	09:38:54
91	170928M3_91	1701301-09 RI17-MW-6 (30-31)-092017 0.253...	29-Sep-17	09:50:09
92	170928M3_92	1701301-10 RI17-MW-6 (40-41)-092017 0.252...	29-Sep-17	10:00:47
93	170928M3_93	1701301-11 RI17-MW-6 (50-51)-092017 0.249...	29-Sep-17	10:11:34
94	170928M3_94	1701301-12 RI17-MW-29 (2.5-7.5)-092017 0.2...	29-Sep-17	10:22:19
95	170928M3_95	1701301-13 RI17-MW-29 (2.5-7.5)-092017 DU...	29-Sep-17	10:32:58
96	170928M3_96	1701301-14 RI17-MW-29 (12.5-13.5)-092017 ...	29-Sep-17	10:43:45
97	170928M3_97	1701301-15 RI17-MW-29 (24-25)-092017 0.26...	29-Sep-17	10:54:31
98	170928M3_98	1701301-16 RI17-MW-29 (31-32)-092017 0.25...	29-Sep-17	11:05:17
99	170928M3_99	1701305-01 908 0.11854	29-Sep-17	11:16:04
100	170928M3_100	IPA	29-Sep-17	11:26:42
101	170928M3_101	ST170928M3-15 PFC CS3 17I2814	29-Sep-17	11:37:54
102	170928M3_102	IPA	29-Sep-17	11:49:12
103	170928M3_103	1701305-02 919 0.11781	29-Sep-17	11:59:54
104	170928M3_104	1701305-03 921 0.11352	29-Sep-17	12:10:41

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
105	170928M3_105	1701278-01 MTBE_6193 0.125	29-Sep-17	12:22:07
106	170928M3_106	1701310-01 NB-101S 0.125	29-Sep-17	12:32:45
107	170928M3_107	1701310-02 NB-102S 0.125	29-Sep-17	12:43:32
108	170928M3_108	1701310-03 NB-105D 0.125	29-Sep-17	12:54:11
109	170928M3_109	1701310-04 DUPLICATE 0.125	29-Sep-17	13:04:49
110	170928M3_110	1701310-05 PFAS FIELD BLANK 0.125	29-Sep-17	13:15:27
111	170928M3_111	1701311-01 MTBE_7214 0.125	29-Sep-17	13:26:14
112	170928M3_112	IPA	29-Sep-17	13:36:53
113	170928M3_113	ST170928M3-16 PFC CS3 1712814	29-Sep-17	13:47:31
114	170928M3_114	IPA	29-Sep-17	13:58:09

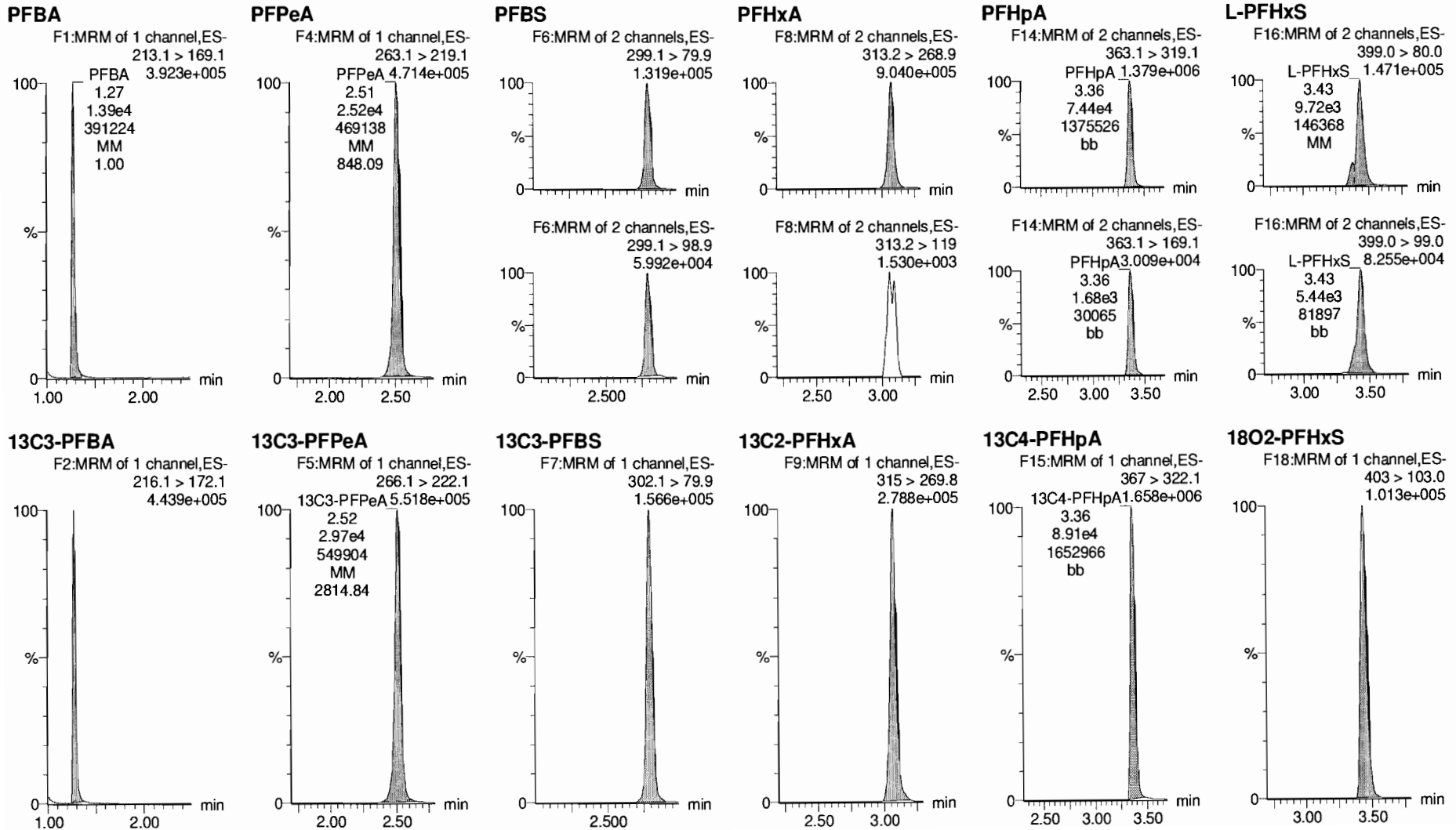
Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:26:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814

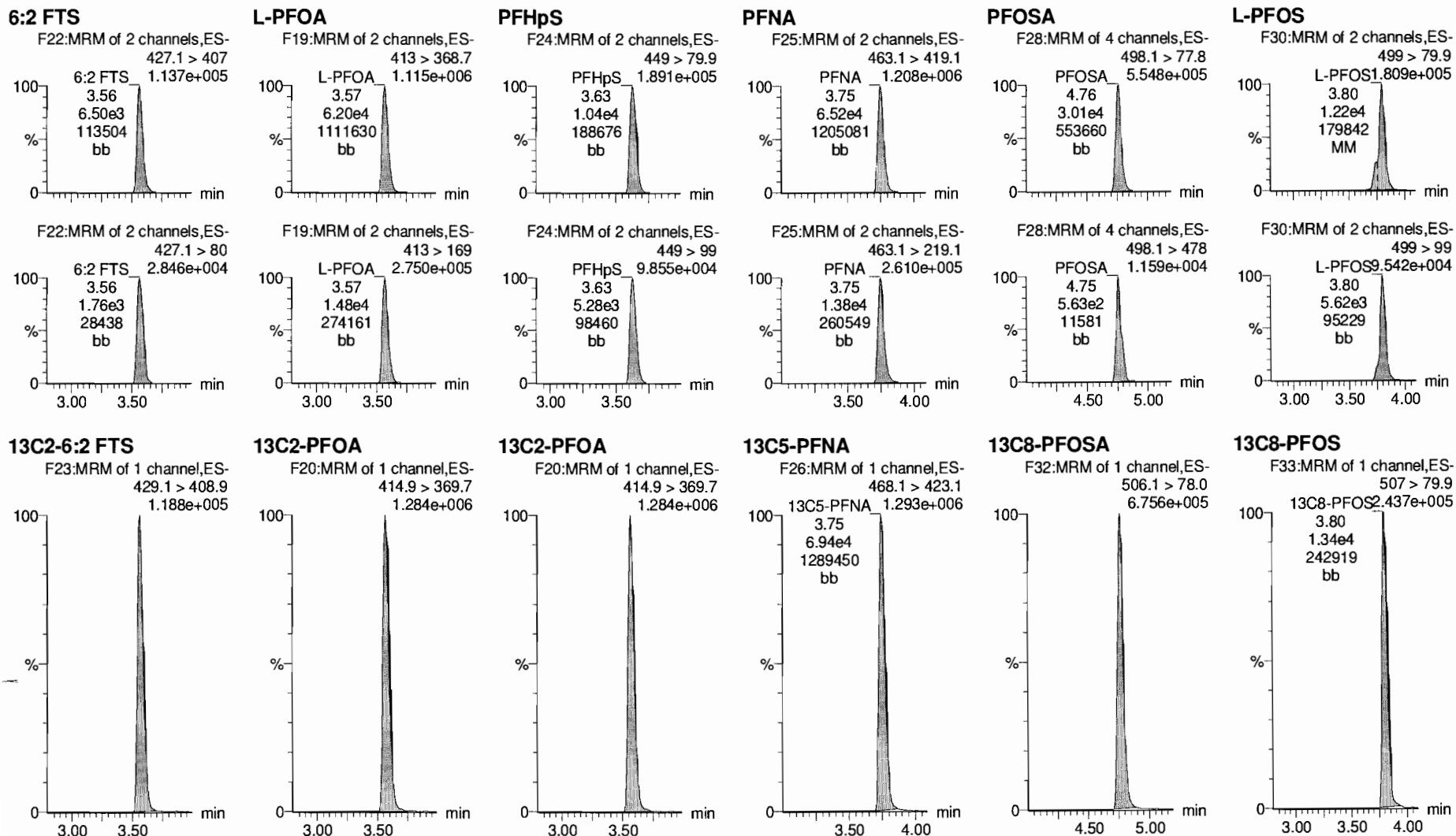


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Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:26:27 Pacific Daylight Time

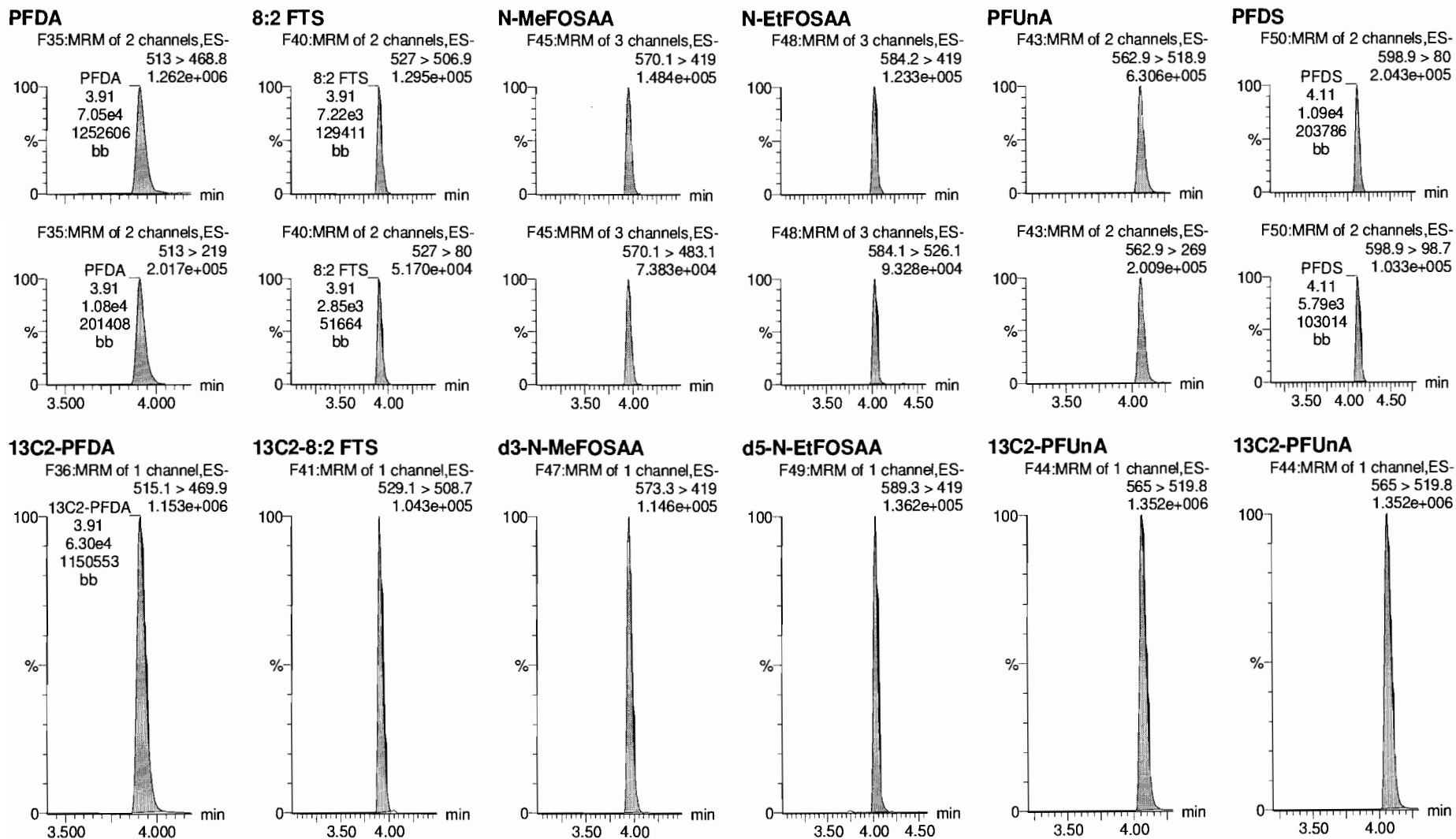
Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814



Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:26:27 Pacific Daylight Time

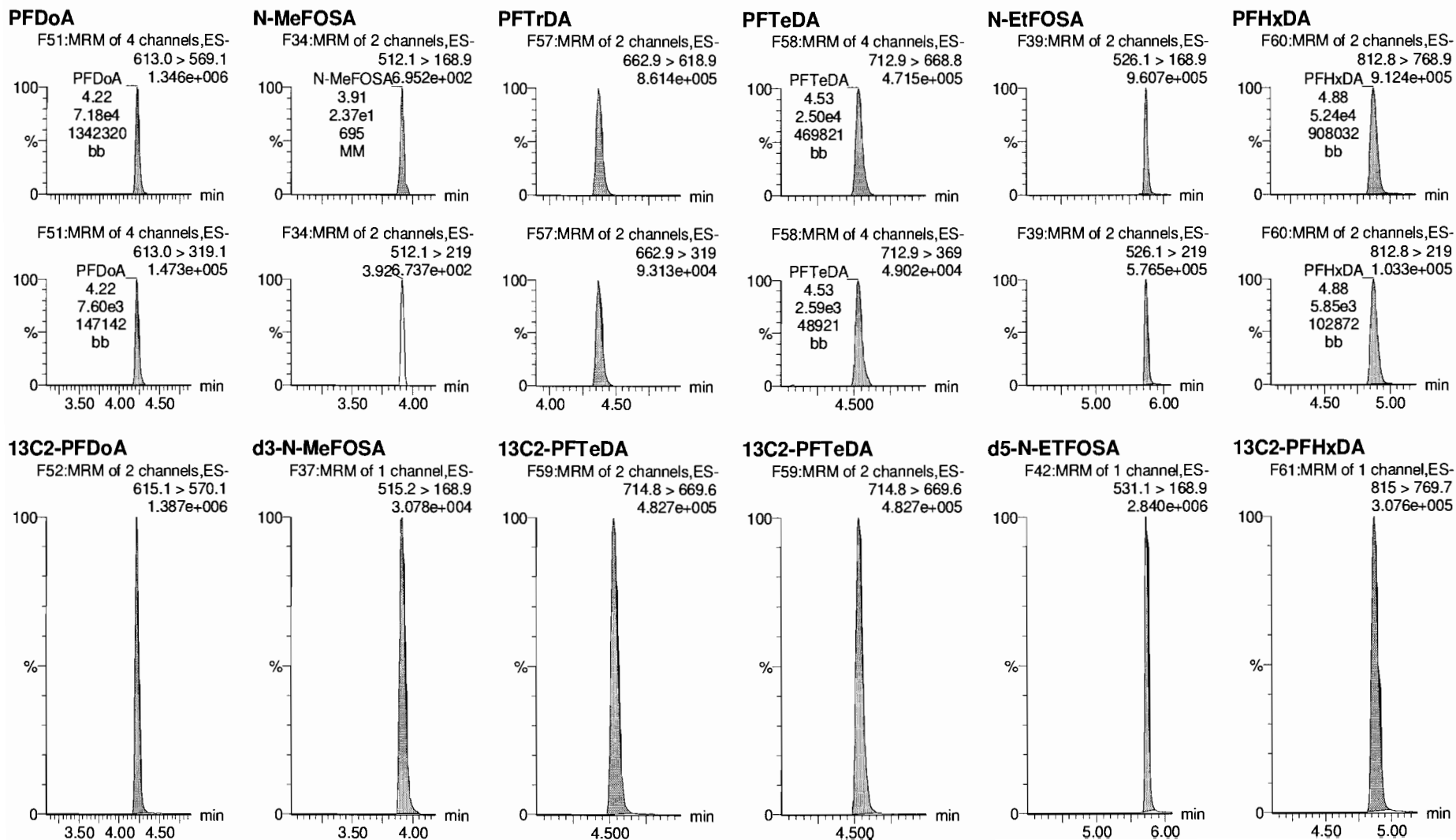
Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 17I2814, Description: PFC CS3 17I2814



Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:26:27 Pacific Daylight Time

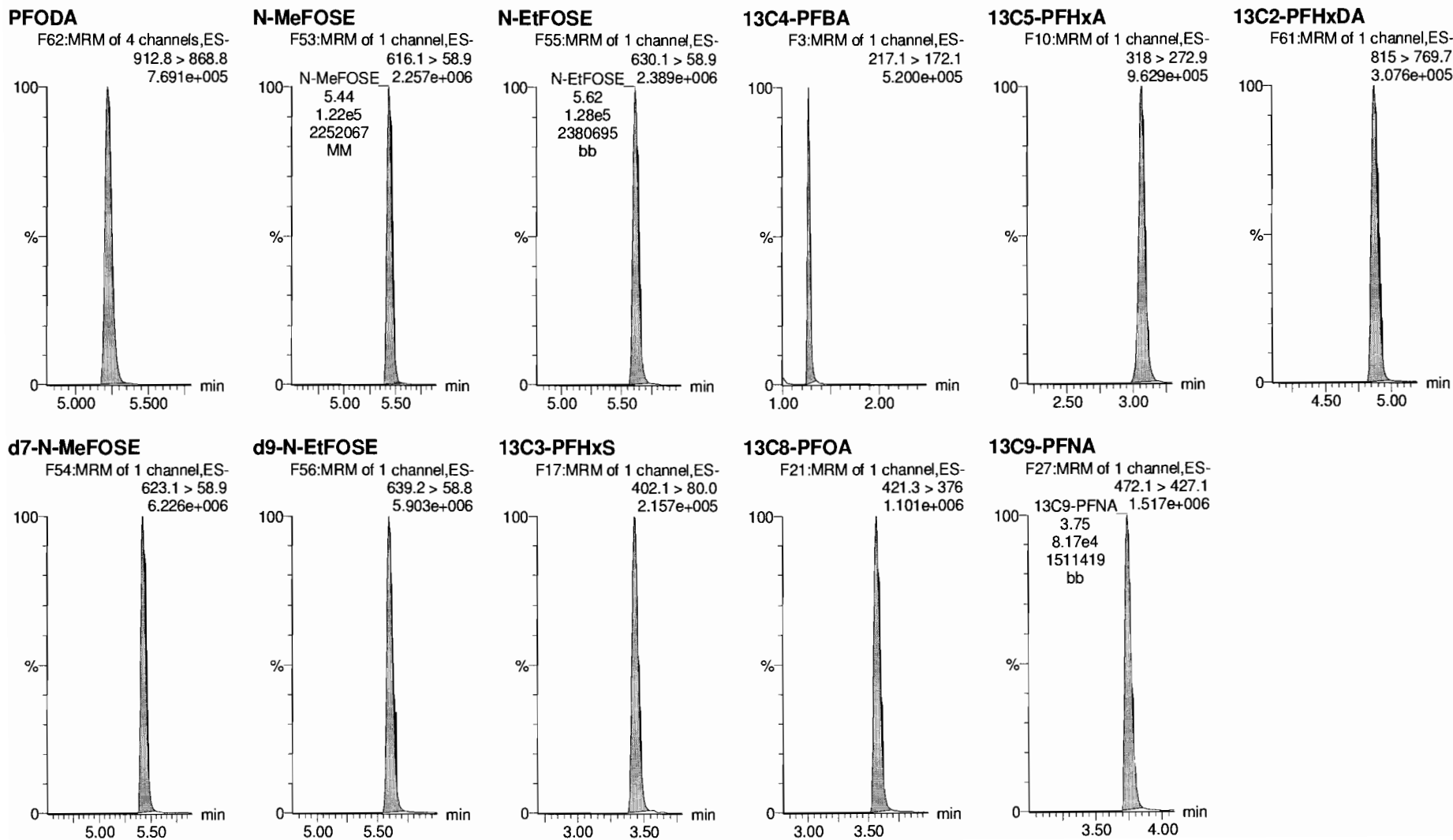
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Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:26:27 Pacific Daylight Time

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 17I2814, Description: PFC CS3 17I2814



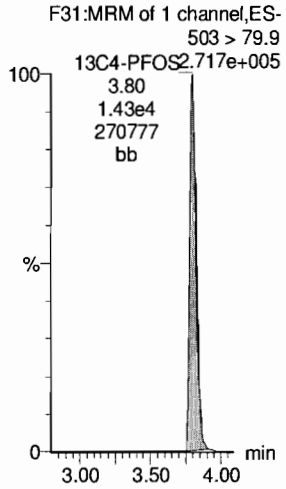
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Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time

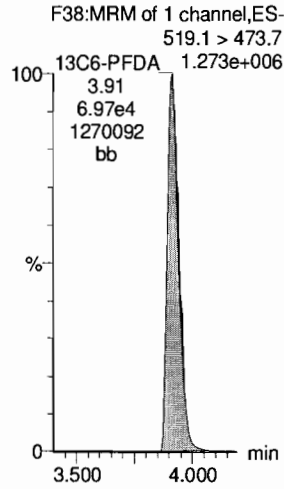
Printed: Friday, September 29, 2017 11:26:27 Pacific Daylight Time

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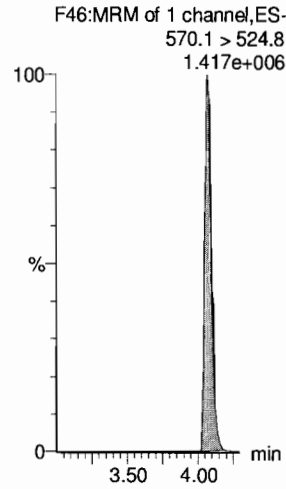
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

Last Altered: Friday, September 29, 2017 11:28:32 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:30:03 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 1712811, Description: PFC CS0 1712811

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.67e3	1.78e4		1.27	1.26	1.18	1.00	100.2
2	2 PFPeA	263.1 > 219.1	2.88e3	3.33e4		2.46	2.50	1.08	0.998	99.8
3	3 PFBS	299.1 > 79.9	6.28e2	7.69e3		2.76	2.79	1.02	0.954	95.4
4	4 PFHxA	313.2 > 268.9	6.21e3	1.76e4		3.04	3.06	1.76	0.986	98.6
5	5 PFHpA	363.1 > 319.1	9.10e3	9.94e4		3.33	3.35	1.14	1.06	105.8
6	6 L-PFHxS	399.0 > 80.0	1.23e3	6.21e3		3.41	3.43	2.48	1.01	100.6
7	8 6:2 FTS	427.1 > 407	9.98e2	8.12e3		3.54	3.55	1.54	1.29	129.3
8	9 L-PFOA	413 > 368.7	8.72e3	7.82e4		3.54	3.56	1.39	1.08	108.4
9	11 PFHpS	449 > 79.9	1.12e3	7.82e4		3.60	3.62	0.178	0.982	98.2
10	12 PFNA	463.1 > 419.1	7.35e3	7.56e4		3.72	3.74	1.21	1.03	103.0
11	13 PFOSA	498.1 > 77.8	3.46e3	3.76e4		4.75	4.76	1.15	0.999	99.9
12	14 L-PFOS	499 > 79.9	1.40e3	1.39e4		3.77	3.79	1.26	1.10	110.1
13	16 PFDA	513 > 468.8	8.21e3	6.57e4		3.89	3.91	1.56	1.02	102.4
14	17 8:2 FTS	527 > 506.9	7.53e2	6.24e3		3.88	3.90	1.51	0.966	96.6
15	18 N-MeFOSAA	570.1 > 419	8.44e2	6.89e3		3.92	3.95	19.9	0.876	87.6
16	19 N-EtFOSAA	584.2 > 419	6.91e2	7.76e3		3.99	4.02	14.5	0.918	91.8
17	20 PFUnA	562.9 > 518.9	4.24e3	7.95e4		4.04	4.07	0.667	1.08	107.8
18	21 PFDS	598.9 > 80	1.17e3	7.95e4		4.08	4.10	0.185	0.944	94.4
19	22 PFDoA	613.0 > 569.1	7.89e3	7.86e4		4.19	4.21	1.25	0.967	96.7
20	24 PFTTrDA	662.9 > 618.9	4.95e3	7.86e4		4.34	4.36	0.787	0.998	99.8
21	25 PFTTeDA	712.9 > 668.8	2.68e3	2.65e4		4.49	4.52	1.26	1.06	105.6
22	26 N-EtFOSA	526.1 > 168.9	5.44e3	1.65e5		5.73	5.75	4.93	4.93	98.5
23	27 PFHxDA	812.8 > 768.9	5.86e3	1.75e4		4.83	4.87	1.68	0.983	98.3
24	28 PFODA	912.8 > 868.8	4.21e3	1.75e4		5.18	5.21	1.21	1.03	102.7
25	29 N-MeFOSE	616.1 > 58.9	1.37e4	3.67e5		5.43	5.44	5.62	5.07	101.5
26	30 N-EtFOSE	630.1 > 58.9	1.50e4	3.41e5		5.60	5.62	6.58	5.17	103.5
27	31 13C3-PFBA	216.1 > 172.1	1.78e4	2.02e4	0.860	1.27	1.27	11.0	12.8	102.4
28	32 13C3-PFPeA	266.1 > 222.1	3.33e4	6.32e4	0.227	2.46	2.50	2.63	11.6	92.6
29	33 13C3-PFBS	302.1 > 79.9	7.69e3	6.32e4	0.056	2.76	2.78	0.608	10.9	87.2
30	34 13C2-PFHxA	315 > 269.8	1.76e4	6.32e4	0.279	3.04	3.06	1.39	5.01	100.1
31	35 13C4-PFHpA	367 > 322.1	9.94e4	6.32e4	0.719	3.33	3.35	7.86	10.9	87.5
32	36 18O2-PFHxS	403 > 103.0	6.21e3	1.28e4	0.477	3.41	3.43	6.09	12.8	102.1

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

Last Altered: Friday, September 29, 2017 11:28:32 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:30:03 Pacific Daylight Time

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 1712811, Description: PFC CS0 1712811

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37	13C2-6:2 FTS	429.1 > 408.9	8.12e3	6.87e4	0.129	3.54	3.55	1.48	11.4	91.4
34	38	13C2-PFOA	414.9 > 369.7	7.82e4	6.87e4	1.167	3.54	3.56	14.2	12.2	97.6
35	39	13C5-PFNA	468.1 > 423.1	7.56e4	9.24e4	0.856	3.72	3.74	10.2	11.9	95.6
36	40	13C8-PFOSA	506.1 > 78.0	3.76e4	8.25e4	0.467	4.75	4.76	5.70	12.2	97.8
37	41	13C8-PFOS	507 > 79.9	1.39e4	1.51e4	0.983	3.77	3.79	11.5	11.7	93.9
38	42	13C2-PFDA	515.1 > 469.9	6.57e4	7.28e4	0.859	3.89	3.90	11.3	13.1	105.0
39	43	13C2-8:2 FTS	529.1 > 508.7	6.24e3	7.28e4	0.091	3.88	3.90	1.07	11.7	93.7
40	44	d3-N-MeFOSAA	573.3 > 419	6.89e3	8.25e4	0.007	3.92	3.94	1.04	160	98.6
41	45	d5-N-EtFOSAA	589.3 > 419	7.76e3	8.25e4	0.007	3.99	4.02	1.18	165	101.7
42	46	13C2-PFUnA	565 > 519.8	7.95e4	8.25e4	0.938	4.04	4.06	12.0	12.8	102.7
43	47	13C2-PFDoA	615.1 > 570.1	7.86e4	8.25e4	0.966	4.19	4.21	11.9	12.3	98.7

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

Last Altered: Friday, September 29, 2017 11:28:32 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:30:10 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 1712811, Description: PFC CS0 1712811

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.65e4	8.25e4	0.362	4.49	4.52	4.02	11.1	88.8
2	50 d5-N-ETFOSA	531.1 > 168.9	1.65e5	8.25e4	0.169	5.73	5.74	25.1	148	98.9
3	51 13C2-PFHxDA	815 > 769.7	1.75e4	8.25e4	0.596	4.83	4.87	2.64	4.44	88.8
4	52 d7-N-MeFOSE	623.1 > 58.9	3.67e5	8.25e4	0.379	5.43	5.43	55.6	146	97.6
5	53 d9-N-EtFOSE	639.2 > 58.8	3.41e5	8.25e4	0.351	5.60	5.60	51.7	147	98.1
6	54 13C4-PFBA	217.1 > 172.1	2.02e4	2.02e4	1.000	1.27	1.26	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	6.32e4	6.32e4	1.000	3.04	3.06	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	1.28e4	1.28e4	1.000	3.41	3.43	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	6.87e4	6.87e4	1.000	3.54	3.56	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	9.24e4	9.24e4	1.000	3.72	3.74	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.51e4	1.51e4	1.000	3.77	3.79	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	7.28e4	7.28e4	1.000	3.89	3.90	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	8.25e4	8.25e4	1.000	4.04	4.06	12.5	12.5	100.0

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Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time
 Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928M3_1	IPA	28-Sep-17	17:43:51
2	170928M3_2	ST170928M3-1 PFC CS-2 17I2809	28-Sep-17	17:54:38
3	170928M3_3	ST170928M3-2 PFC CS-1 17I2810	28-Sep-17	18:05:24
4	170928M3_4	ST170928M3-3 PFC CS0 17I2811	28-Sep-17	18:16:11
5	170928M3_5	ST170928M3-4 PFC CS1 17I2812	28-Sep-17	18:26:58
6	170928M3_6	ST170928M3-5 PFC CS2 17I2813	28-Sep-17	18:37:36
7	170928M3_7	ST170928M3-6 PFC CS3 17I2814	28-Sep-17	18:48:22
8	170928M3_8	ST170928M3-7 PFC CS4 17I2815	28-Sep-17	18:59:01
9	170928M3_9	ST170928M3-8 PFC CS5 17I2816	28-Sep-17	19:09:47
10	170928M3_10	ST170928M3-9 PFC CS6 17I2817	28-Sep-17	19:20:33
11	170928M3_11	ST170928M3-10 PFC CS7 17I2818	28-Sep-17	19:31:12
12	170928M3_12	IPA	28-Sep-17	19:41:51
13	170928M3_13	ICV170928M3-1 PFC ICV 17I2808	28-Sep-17	19:52:37
14	170928M3_14	B7I0135-BS1 OPR 0.25	28-Sep-17	20:03:15
15	170928M3_15	B7I0136-BS1 OPR 0.125	28-Sep-17	20:13:54
16	170928M3_16	IPA	28-Sep-17	20:24:40
17	170928M3_17	B7I0125-BLK1 Method Blank 1	28-Sep-17	20:35:18
18	170928M3_18	B7I0135-BLK1 Method Blank 0.25	28-Sep-17	20:45:58
19	170928M3_19	B7I0136-BLK1 Method Blank 0.125	28-Sep-17	20:56:55
20	170928M3_20	B7I0125-BS2 OPR 1	28-Sep-17	21:07:41
21	170928M3_21	B7I0125-BS3 OPR 1	28-Sep-17	21:18:20
22	170928M3_22	B7I0125-BS4 OPR 1	28-Sep-17	21:29:06
23	170928M3_23	B7I0125-BS5 OPR 1	28-Sep-17	21:39:45
24	170928M3_24	IPA	28-Sep-17	21:50:23
25	170928M3_25	1701293-01 LORNG-SW18001-091817 0.10707	28-Sep-17	22:01:09
26	170928M3_26	1701293-02 LORNG-SWDR001-091817 0.114...	28-Sep-17	22:11:48
27	170928M3_27	1701293-03 LORNG-SWDR002-091817 0.115...	28-Sep-17	22:22:34
28	170928M3_28	1701293-04 LORNG-SWNP001-091817 0.114...	28-Sep-17	22:33:12
29	170928M3_29	1701300-01 RI17-MW-3 (2-7)-091917 0.25556	28-Sep-17	22:43:59
30	170928M3_30	1701300-02 RI17-MW-3 (16-17)-091917 0.256...	28-Sep-17	22:54:38
31	170928M3_31	1701300-03 RI17-MW-3 (26-27)-091917 0.2598	28-Sep-17	23:05:24
32	170928M3_32	1701300-04 RI17-MW-3 (36-37)-091917 0.251...	28-Sep-17	23:16:11

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
33	170928M3_33	1701300-05 RI17-MW-3 (46-47)-091917 0.260...	28-Sep-17	23:26:57
34	170928M3_34	1701300-06 RI17-MW-4 (5-10)-091917 0.25114	28-Sep-17	23:37:38
35	170928M3_35	IPA	28-Sep-17	23:48:23
36	170928M3_36	ST170928M3-11 PFC CS3 17I2814	28-Sep-17	23:59:09
37	170928M3_37	IPA	29-Sep-17	00:09:47
38	170928M3_38	1701300-07 RI17-MW-4 (19-20)-091917 0.249...	29-Sep-17	00:20:25
39	170928M3_39	1701300-08 RI17-MW-4 (29-30)-091917 0.253...	29-Sep-17	00:31:12
40	170928M3_40	1701300-09 RI17-MW-4 (39-40)-091917 0.254...	29-Sep-17	00:41:54
41	170928M3_41	1701300-10 RI17-MW-4 (49-50)-091917 0.26	29-Sep-17	00:52:42
42	170928M3_42	1701294-01 RI17-DISTH2O-MW-1-091817 0.1...	29-Sep-17	01:03:23
43	170928M3_43	1701294-02 RI17-FRB-MW-1-091817 0.125	29-Sep-17	01:14:10
44	170928M3_44	1701294-03 RI17-5006-MW-1-091817 0.125	29-Sep-17	01:24:56
45	170928M3_45	1701294-04 RI17-5171-MW-1-091817 0.125	29-Sep-17	01:35:43
46	170928M3_46	1701294-05 RI17-EB-MW-1-091817 0.125	29-Sep-17	01:46:29
47	170928M3_47	1701294-06 RI17-MW-1(3-8)-091817 0.125	29-Sep-17	01:57:07
48	170928M3_48	1701294-07 RI17-MW-1(3-8)-091817 Dup 0.125	29-Sep-17	02:07:54
49	170928M3_49	1701294-08 RI17-MW-1(17-18)-091917 0.125	29-Sep-17	02:18:33
50	170928M3_50	IPA	29-Sep-17	02:29:11
51	170928M3_51	ST170928M3-12 PFC CS3 17I2814	29-Sep-17	02:39:49
52	170928M3_52	IPA	29-Sep-17	02:50:28
53	170928M3_53	1701294-09 RI17-MW-2(2-7)-091917 0.125	29-Sep-17	03:01:14
54	170928M3_54	1701294-10 RI17-MW-2(12-13)-091917 0.125	29-Sep-17	03:11:52
55	170928M3_55	1701294-11 RI17-MW-2(17-18)-091917 0.125	29-Sep-17	03:22:39
56	170928M3_56	1701294-12 VAS-RI17-B21(108-110FT) 0.125	29-Sep-17	03:33:17
57	170928M3_57	1701294-13 VAS-RI17-B21(69-71FT) 0.125	29-Sep-17	03:44:04
58	170928M3_58	1701294-14 VAS-RI17-B21(61-63FT) 0.125	29-Sep-17	03:54:42
59	170928M3_59	1701294-15 VAS-RI17-B21(61-63FT) Dup 0.125	29-Sep-17	04:05:21
60	170928M3_60	1701294-16 Pond 1-2 @ Dam PD 0.125	29-Sep-17	04:16:11
61	170928M3_61	1701294-17 SW-VEL L4 0.125	29-Sep-17	04:26:53
62	170928M3_62	B7I0026-BS3	29-Sep-17	04:37:40
63	170928M3_63	B7I0026-BS4	29-Sep-17	04:48:18
64	170928M3_64	B7I0026-BS5	29-Sep-17	04:59:05
65	170928M3_65	IPA	29-Sep-17	05:09:51
66	170928M3_66	1701279-03 MH-117T-20170918 0.125	29-Sep-17	05:20:30
67	170928M3_67	IPA	29-Sep-17	05:31:16
68	170928M3_68	ST170928M3-13 PFC CS0 17I2811	29-Sep-17	05:41:54

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Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

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69	170928M3_69	IPA	29-Sep-17	05:52:41
70	170928M3_70	1701279-11 MH-140N-20170918 0.125	29-Sep-17	06:03:19
71	170928M3_71	1701279-12 INTERCEPTOR SUMP-2017091...	29-Sep-17	06:13:58
72	170928M3_72	1701279-15 SPRING-20170918 0.125	29-Sep-17	06:24:36
73	170928M3_73	IPA	29-Sep-17	06:35:15
74	170928M3_74	MB TESTER	29-Sep-17	06:46:01
75	170928M3_75	B7I0137-BS1 OPR 0.25	29-Sep-17	06:56:48
76	170928M3_76	B7I0142-BS1 OPR 1	29-Sep-17	07:07:51
77	170928M3_77	IPA	29-Sep-17	07:18:37
78	170928M3_78	B7I0137-BLK1 Method Blank 0.25	29-Sep-17	07:29:23
79	170928M3_79	B7I0142-BLK1 Method Blank 1	29-Sep-17	07:40:09
80	170928M3_80	1701301-01 RI17-MW-4 (59-60)-091917 0.243...	29-Sep-17	07:50:48
81	170928M3_81	1701301-02 RI17-MW-6 (5-10)-091917 0.24128	29-Sep-17	08:01:26
82	170928M3_82	1701301-03 RI17-MW-8 (3-8)-092017 0.25036	29-Sep-17	08:12:05
83	170928M3_83	1701301-04 RI17-MW-8 (18-19)-092017 0.254...	29-Sep-17	08:22:51
84	170928M3_84	1701301-05 RI17-MW-8 (27.5-28.5)-092017 0....	29-Sep-17	08:33:30
85	170928M3_85	1701301-06 RI17-MW-8 (37-38)-092017 0.251...	29-Sep-17	08:44:16
86	170928M3_86	1701301-07 RI17-FRB-MW-8-092017 0.25277	29-Sep-17	08:54:54
87	170928M3_87	IPA	29-Sep-17	09:05:41
88	170928M3_88	ST170928M3-14 PFC CS3 17I2814	29-Sep-17	09:16:19
89	170928M3_89	IPA	29-Sep-17	09:27:05
90	170928M3_90	1701301-08 RI17-MW-6 (20-21)-092017 0.2177	29-Sep-17	09:38:54
91	170928M3_91	1701301-09 RI17-MW-6 (30-31)-092017 0.253...	29-Sep-17	09:50:09
92	170928M3_92	1701301-10 RI17-MW-6 (40-41)-092017 0.252...	29-Sep-17	10:00:47
93	170928M3_93	1701301-11 RI17-MW-6 (50-51)-092017 0.249...	29-Sep-17	10:11:34
94	170928M3_94	1701301-12 RI17-MW-29 (2.5-7.5)-092017 0.2...	29-Sep-17	10:22:19
95	170928M3_95	1701301-13 RI17-MW-29 (2.5-7.5)-092017 DU...	29-Sep-17	10:32:58
96	170928M3_96	1701301-14 RI17-MW-29 (12.5-13.5)-092017 ...	29-Sep-17	10:43:45
97	170928M3_97	1701301-15 RI17-MW-29 (24-25)-092017 0.26...	29-Sep-17	10:54:31
98	170928M3_98	1701301-16 RI17-MW-29 (31-32)-092017 0.25...	29-Sep-17	11:05:17
99	170928M3_99	1701305-01 908 0.11854	29-Sep-17	11:16:04
100	170928M3_100	IPA	29-Sep-17	11:26:42
101	170928M3_101	ST170928M3-15 PFC CS3 17I2814	29-Sep-17	11:37:54
102	170928M3_102	IPA	29-Sep-17	11:49:12
103	170928M3_103	1701305-02 919 0.11781	29-Sep-17	11:59:54
104	170928M3_104	1701305-03 921 0.11352	29-Sep-17	12:10:41

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Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

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106	170928M3_106	1701310-01 NB-101S 0.125	29-Sep-17	12:32:45
107	170928M3_107	1701310-02 NB-102S 0.125	29-Sep-17	12:43:32
108	170928M3_108	1701310-03 NB-105D 0.125	29-Sep-17	12:54:11
109	170928M3_109	1701310-04 DUPLICATE 0.125	29-Sep-17	13:04:49
110	170928M3_110	1701310-05 PFAS FIELD BLANK 0.125	29-Sep-17	13:15:27
111	170928M3_111	1701311-01 MTBE_7214 0.125	29-Sep-17	13:26:14
112	170928M3_112	IPA	29-Sep-17	13:36:53
113	170928M3_113	ST170928M3-16 PFC CS3 17I2814	29-Sep-17	13:47:31
114	170928M3_114	IPA	29-Sep-17	13:58:09

Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

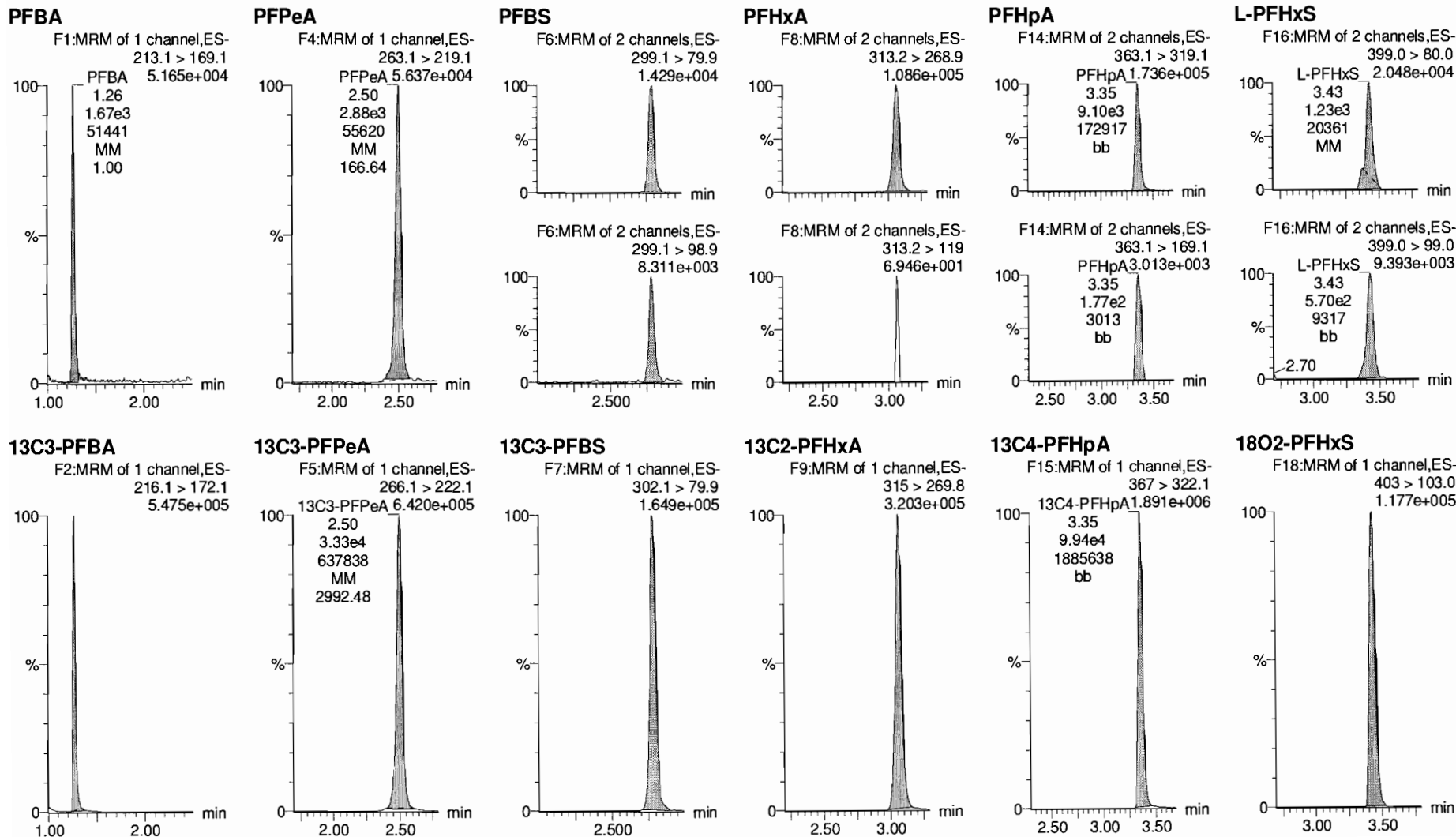
Last Altered: Friday, September 29, 2017 11:28:32 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:30:10 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\FAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

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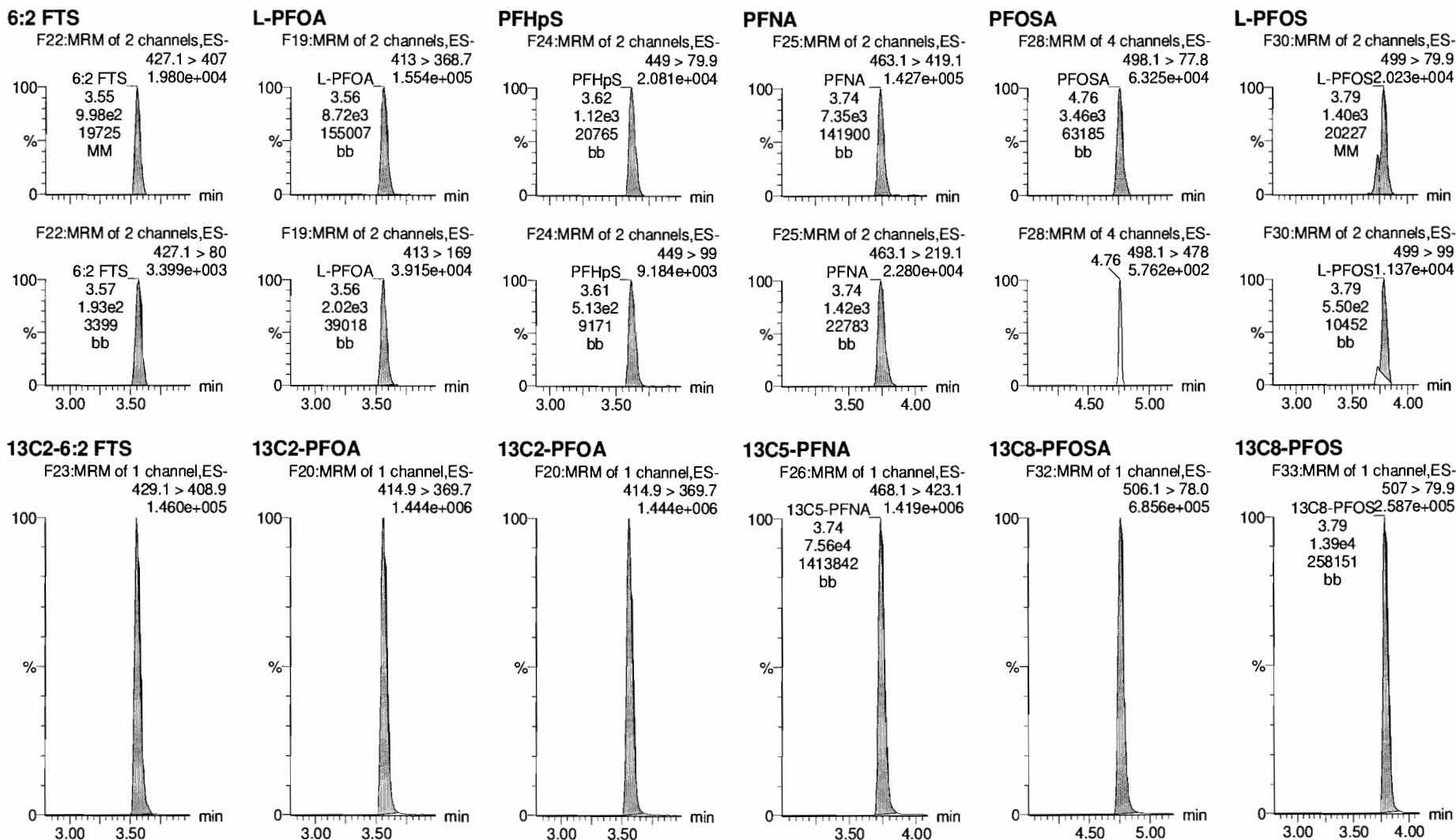


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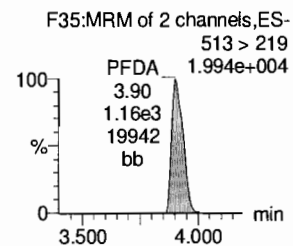
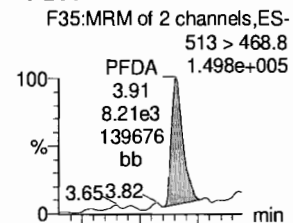
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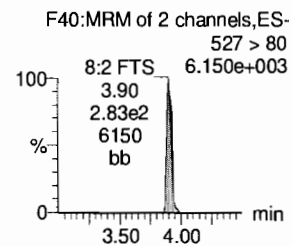
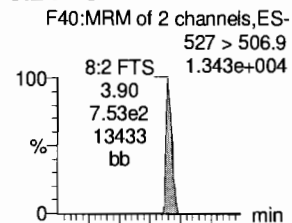
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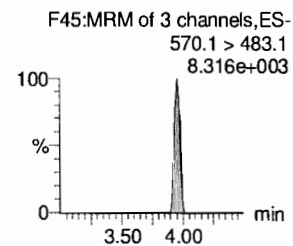
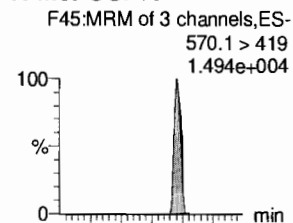
PFDA



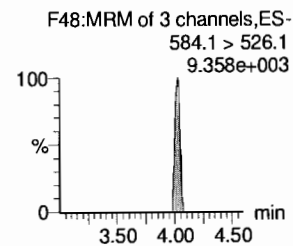
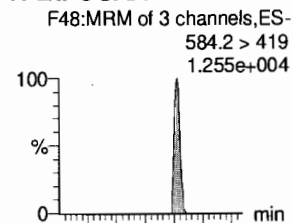
8:2 FTS



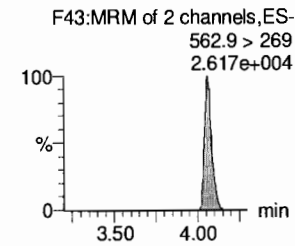
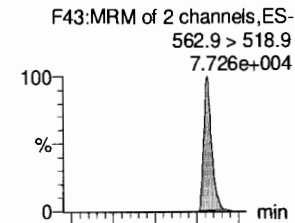
N-MeFOSAA



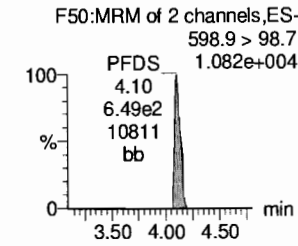
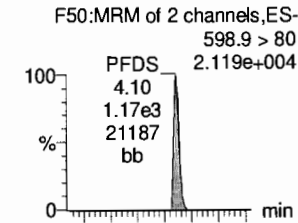
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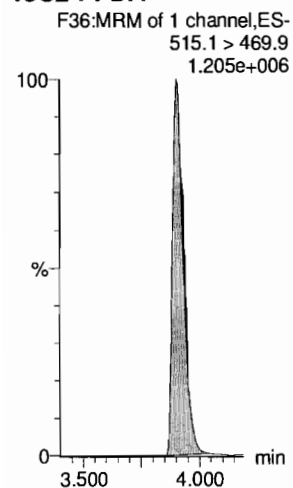
PFUnA



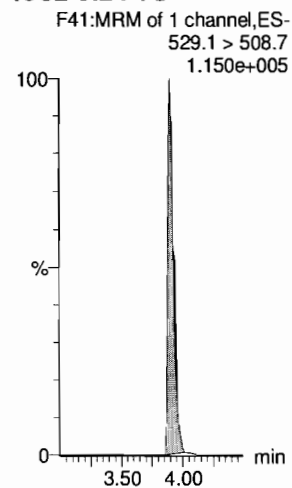
PFDS



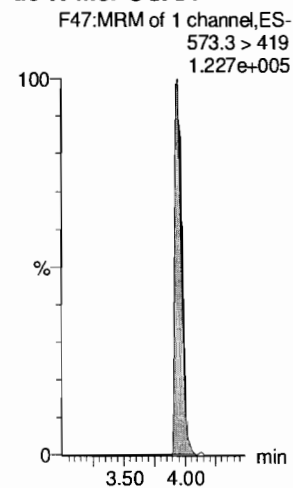
13C2-PFDA



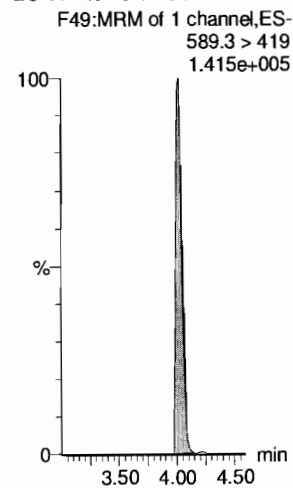
13C2-8:2 FTS



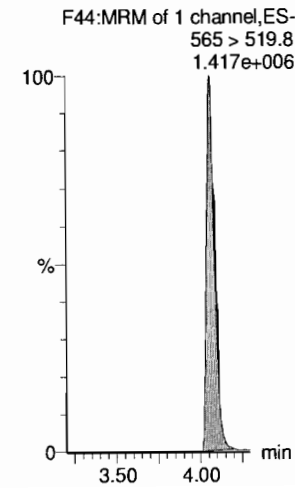
d3-N-MeFOSAA



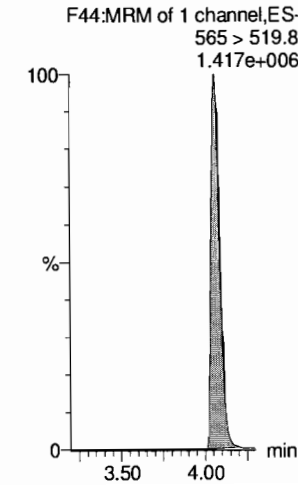
d5-N-EtFOSAA



13C2-PFUnA



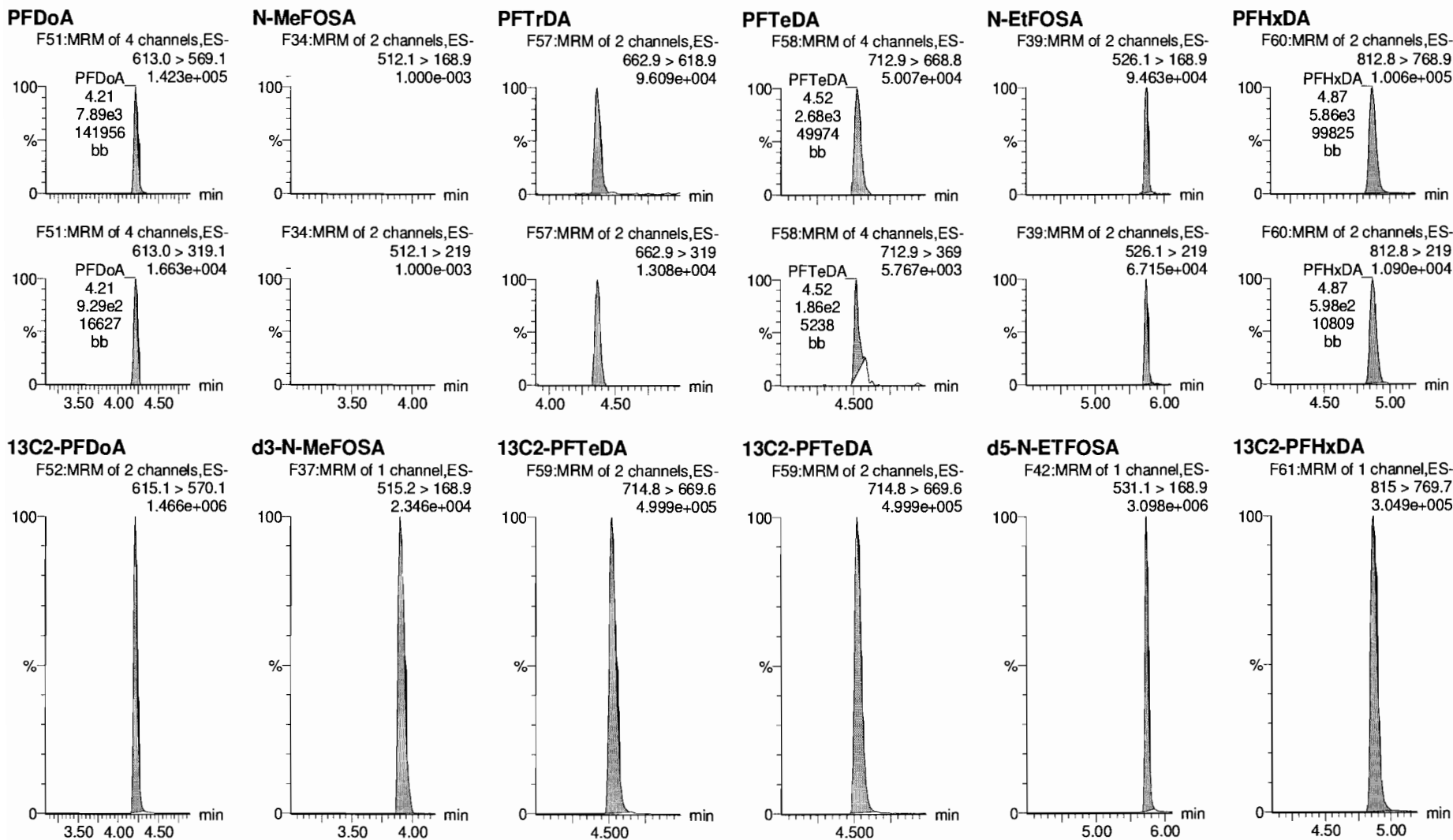
13C2-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

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Printed: Friday, September 29, 2017 11:30:10 Pacific Daylight Time

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 17I2811, Description: PFC CS0 17I2811



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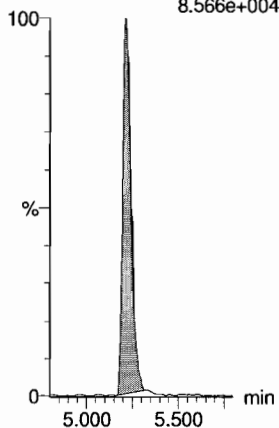
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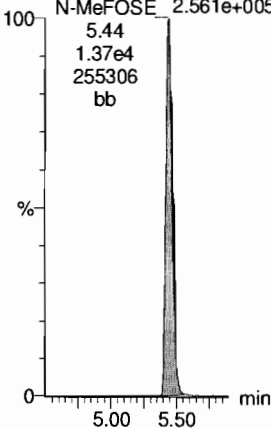
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
8.566e+004



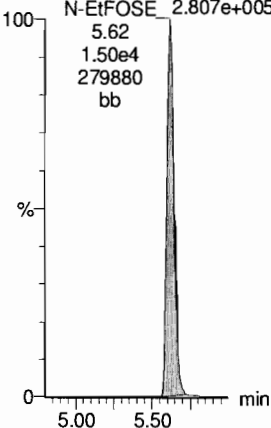
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
N-MeFOSE_ 2.561e+005
5.44
1.37e4
255306
bb



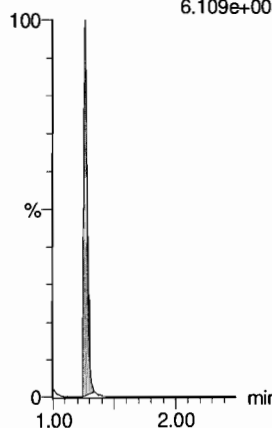
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
N-EtFOSE_ 2.807e+005
5.62
1.50e4
279880
bb



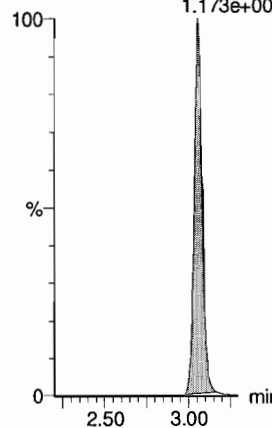
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1
6.109e+005



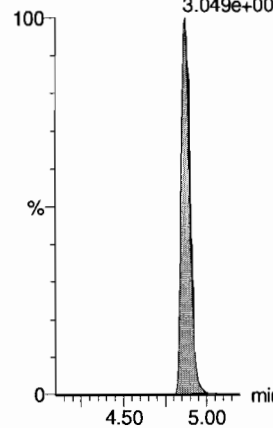
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
1.173e+006



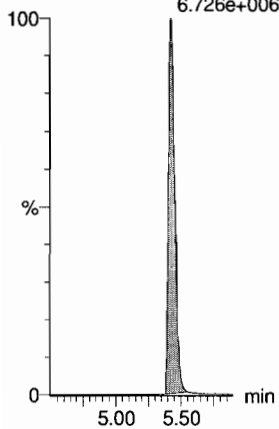
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.049e+005



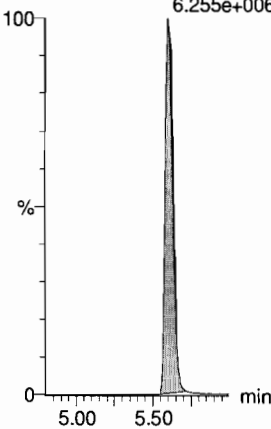
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
6.726e+006



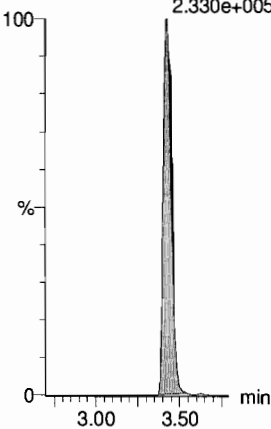
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
6.255e+006



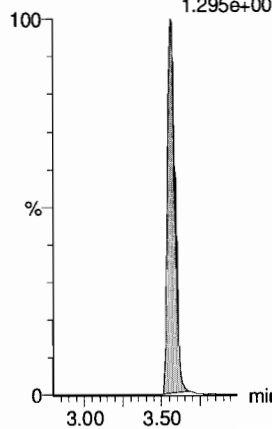
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
2.330e+005



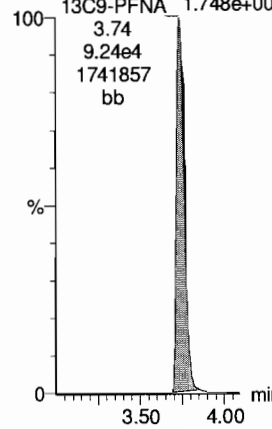
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.295e+006



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
13C9-PFNA_ 1.748e+006
3.74
9.24e4
1741857
bb



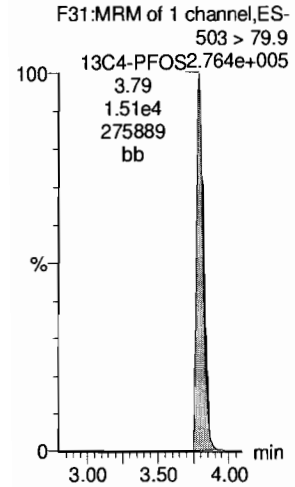
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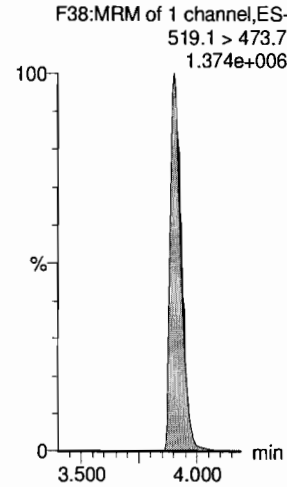
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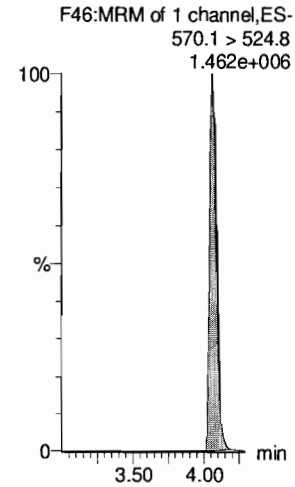
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:32:58 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 1712814, Description: PFC CS3 1712814

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1	1 PFBA	213.1 > 169.1	1.54e4	1.77e4		1.27	1.27	10.9	9.60	96.0
2	2 PFPeA	263.1 > 219.1	2.74e4	3.23e4		2.46	2.53	10.6	10.1	100.7
3	3 PFBS	299.1 > 79.9	6.57e3	8.00e3		2.76	2.80	10.3	9.90	99.0
4	4 PFHxA	313.2 > 268.9	5.96e4	1.83e4		3.04	3.07	16.3	10.2	101.9
5	5 PFHpA	363.1 > 319.1	7.61e4	9.47e4		3.33	3.36	10.1	10.2	101.5
6	6 L-PFHxS	399.0 > 80.0	9.74e3	5.34e3		3.41	3.43	22.8	9.53	95.3
7	8 6:2 FTS	427.1 > 407	5.57e3	6.71e3		3.54	3.56	10.4	8.57	85.7
8	9 L-PFOA	413 > 368.7	6.12e4	6.93e4		3.54	3.57	11.0	10.6	106.2
9	11 PFHpS	449 > 79.9	1.06e4	6.93e4		3.60	3.62	1.91	10.5	105.4
10	12 PFNA	463.1 > 419.1	6.70e4	7.23e4		3.72	3.75	11.6	10.3	103.5
11	13 PFOSA	498.1 > 77.8	3.12e4	3.67e4		4.75	4.76	10.6	9.90	99.0
12	14 L-PFOS	499 > 79.9	1.25e4	1.40e4		3.77	3.80	11.1	9.63	96.3
13	16 PFDA	513 > 468.8	7.60e4	6.33e4		3.89	3.91	15.0	10.6	106.5
14	17 8:2 FTS	527 > 506.9	6.95e3	5.91e3		3.88	3.91	14.7	9.72	97.2
15	18 N-MeFOSAA	570.1 > 419	8.60e3	6.33e3		3.92	3.96	221	10.5	104.8
16	19 N-EtFOSAA	584.2 > 419	7.02e3	7.62e3		3.99	4.03	150	9.04	90.4
17	20 PFUnA	562.9 > 518.9	3.68e4	8.05e4		4.04	4.07	5.72	9.64	96.4
18	21 PFDS	598.9 > 80	1.08e4	8.05e4		4.08	4.11	1.68	8.64	86.4
19	22 PFDoA	613.0 > 569.1	7.32e4	8.02e4		4.19	4.22	11.4	9.41	94.1
20	24 PFTrDA	662.9 > 618.9	4.81e4	8.02e4		4.34	4.37	7.50	10.6	106.1
21	25 PFTeDA	712.9 > 668.8	2.55e4	2.66e4		4.49	4.53	12.0	10.6	106.4
22	26 N-EtFOSA	526.1 > 168.9	5.03e4	1.57e5		5.73	5.74	48.1	52.4	104.9
23	27 PFHxDA	812.8 > 768.9	5.49e4	1.84e4		4.83	4.88	15.0	9.71	97.1
24	28 PFODA	912.8 > 868.8	4.05e4	1.84e4		5.18	5.23	11.0	10.5	105.4
25	29 N-MeFOSE	616.1 > 58.9	1.24e5	3.47e5		5.43	5.44	53.4	52.8	105.5
26	30 N-EtFOSE	630.1 > 58.9	1.32e5	3.20e5		5.60	5.62	61.9	52.9	105.7
27	31 13C3-PFBA	216.1 > 172.1	1.77e4	2.00e4	0.860	1.27	1.27	11.1	12.9	103.2
28	32 13C3-PFPeA	266.1 > 222.1	3.23e4	6.45e4	0.227	2.46	2.52	2.50	11.0	88.2
29	33 13C3-PFBS	302.1 > 79.9	8.00e3	6.45e4	0.056	2.76	2.79	0.620	11.1	88.9
30	34 13C2-PFHxA	315 > 269.8	1.83e4	6.45e4	0.279	3.04	3.07	1.42	5.08	101.6
31	35 13C4-PFHpA	367 > 322.1	9.47e4	6.45e4	0.719	3.33	3.36	7.34	10.2	81.7
32	36 18O2-PFHxS	403 > 103.0	5.34e3	1.15e4	0.477	3.41	3.43	5.80	12.2	97.4

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:32:58 Pacific Daylight Time

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 17I2814, Description: PFC CS3 17I2814

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37 13C2-6:2 FTS	429.1 > 408.9	6.71e3	6.34e4	0.129	3.54	3.56	1.32	10.2	81.8
34	38 13C2-PFOA	414.9 > 369.7	6.93e4	6.34e4	1.167	3.54	3.57	13.7	11.7	93.6
35	39 13C5-PFNA	468.1 > 423.1	7.23e4	8.53e4	0.856	3.72	3.75	10.6	12.4	99.0
36	40 13C8-PFOSA	506.1 > 78.0	3.67e4	8.17e4	0.467	4.75	4.76	5.62	12.0	96.3
37	41 13C8-PFOS	507 > 79.9	1.40e4	1.37e4	0.983	3.77	3.80	12.8	13.0	104.1
38	42 13C2-PFDA	515.1 > 469.9	6.33e4	6.99e4	0.859	3.89	3.91	11.3	13.2	105.3
39	43 13C2-8:2 FTS	529.1 > 508.7	5.91e3	6.99e4	0.091	3.88	3.91	1.06	11.6	92.4
40	44 d3-N-MeFOSAA	573.3 > 419	6.33e3	8.17e4	0.007	3.92	3.95	0.969	149	91.5
41	45 d5-N-EtFOSAA	589.3 > 419	7.62e3	8.17e4	0.007	3.99	4.02	1.17	164	100.7
42	46 13C2-PFUnA	565 > 519.8	8.05e4	8.17e4	0.938	4.04	4.07	12.3	13.1	105.0
43	47 13C2-PFDaA	615.1 > 570.1	8.02e4	8.17e4	0.966	4.19	4.22	12.3	12.7	101.6

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 1712814, Description: PFC CS3 1712814

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.66e4	8.17e4	0.362	4.49	4.53	4.07	11.2	89.8
2	50 d5-N-ETFOSA	531.1 > 168.9	1.57e5	8.17e4	0.169	5.73	5.73	24.0	142	94.7
3	51 13C2-PFHxDA	815 > 769.7	1.84e4	8.17e4	0.596	4.83	4.88	2.81	4.71	94.3
4	52 d7-N-MeFOSE	623.1 > 58.9	3.47e5	8.17e4	0.379	5.43	5.43	53.1	140	93.4
5	53 d9-N-EtFOSE	639.2 > 58.8	3.20e5	8.17e4	0.351	5.60	5.60	49.0	139	93.0
6	54 13C4-PFBA	217.1 > 172.1	2.00e4	2.00e4	1.000	1.27	1.27	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	6.45e4	6.45e4	1.000	3.04	3.07	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	1.15e4	1.15e4	1.000	3.41	3.43	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	6.34e4	6.34e4	1.000	3.54	3.57	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	8.53e4	8.53e4	1.000	3.72	3.75	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.37e4	1.37e4	1.000	3.77	3.80	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	6.99e4	6.99e4	1.000	3.89	3.91	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	8.17e4	8.17e4	1.000	4.04	4.07	12.5	12.5	100.0

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Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928M3_1	IPA	28-Sep-17	17:43:51
2	170928M3_2	ST170928M3-1 PFC CS-2 17I2809	28-Sep-17	17:54:38
3	170928M3_3	ST170928M3-2 PFC CS-1 17I2810	28-Sep-17	18:05:24
4	170928M3_4	ST170928M3-3 PFC CS0 17I2811	28-Sep-17	18:16:11
5	170928M3_5	ST170928M3-4 PFC CS1 17I2812	28-Sep-17	18:26:58
6	170928M3_6	ST170928M3-5 PFC CS2 17I2813	28-Sep-17	18:37:36
7	170928M3_7	ST170928M3-6 PFC CS3 17I2814	28-Sep-17	18:48:22
8	170928M3_8	ST170928M3-7 PFC CS4 17I2815	28-Sep-17	18:59:01
9	170928M3_9	ST170928M3-8 PFC CS5 17I2816	28-Sep-17	19:09:47
10	170928M3_10	ST170928M3-9 PFC CS6 17I2817	28-Sep-17	19:20:33
11	170928M3_11	ST170928M3-10 PFC CS7 17I2818	28-Sep-17	19:31:12
12	170928M3_12	IPA	28-Sep-17	19:41:51
13	170928M3_13	ICV170928M3-1 PFC ICV 17I2808	28-Sep-17	19:52:37
14	170928M3_14	B7I0135-BS1 OPR 0.25	28-Sep-17	20:03:15
15	170928M3_15	B7I0136-BS1 OPR 0.125	28-Sep-17	20:13:54
16	170928M3_16	IPA	28-Sep-17	20:24:40
17	170928M3_17	B7I0125-BLK1 Method Blank 1	28-Sep-17	20:35:18
18	170928M3_18	B7I0135-BLK1 Method Blank 0.25	28-Sep-17	20:45:58
19	170928M3_19	B7I0136-BLK1 Method Blank 0.125	28-Sep-17	20:56:55
20	170928M3_20	B7I0125-BS2 OPR 1	28-Sep-17	21:07:41
21	170928M3_21	B7I0125-BS3 OPR 1	28-Sep-17	21:18:20
22	170928M3_22	B7I0125-BS4 OPR 1	28-Sep-17	21:29:06
23	170928M3_23	B7I0125-BS5 OPR 1	28-Sep-17	21:39:45
24	170928M3_24	IPA	28-Sep-17	21:50:23
25	170928M3_25	1701293-01 LORNG-SW18001-091817 0.10707	28-Sep-17	22:01:09
26	170928M3_26	1701293-02 LORNG-SWDR001-091817 0.114...	28-Sep-17	22:11:48
27	170928M3_27	1701293-03 LORNG-SWDR002-091817 0.115...	28-Sep-17	22:22:34
28	170928M3_28	1701293-04 LORNG-SWNP001-091817 0.114...	28-Sep-17	22:33:12
29	170928M3_29	1701300-01 RI17-MW-3 (2-7)-091917 0.25556	28-Sep-17	22:43:59
30	170928M3_30	1701300-02 RI17-MW-3 (16-17)-091917 0.256...	28-Sep-17	22:54:38
31	170928M3_31	1701300-03 RI17-MW-3 (26-27)-091917 0.2598	28-Sep-17	23:05:24
32	170928M3_32	1701300-04 RI17-MW-3 (36-37)-091917 0.251...	28-Sep-17	23:16:11

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time
 Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
33	170928M3_33	1701300-05 RI17-MW-3 (46-47)-091917 0.260...	28-Sep-17	23:26:57
34	170928M3_34	1701300-06 RI17-MW-4 (5-10)-091917 0.25114	28-Sep-17	23:37:38
35	170928M3_35	IPA	28-Sep-17	23:48:23
36	170928M3_36	ST170928M3-11 PFC CS3 17I2814	28-Sep-17	23:59:09
37	170928M3_37	IPA	29-Sep-17	00:09:47
38	170928M3_38	1701300-07 RI17-MW-4 (19-20)-091917 0.249...	29-Sep-17	00:20:25
39	170928M3_39	1701300-08 RI17-MW-4 (29-30)-091917 0.253...	29-Sep-17	00:31:12
40	170928M3_40	1701300-09 RI17-MW-4 (39-40)-091917 0.254...	29-Sep-17	00:41:54
41	170928M3_41	1701300-10 RI17-MW-4 (49-50)-091917 0.26	29-Sep-17	00:52:42
42	170928M3_42	1701294-01 RI17-DISTH2O-MW-1-091817 0.1...	29-Sep-17	01:03:23
43	170928M3_43	1701294-02 RI17-FRB-MW-1-091817 0.125	29-Sep-17	01:14:10
44	170928M3_44	1701294-03 RI17-5006-MW-1-091817 0.125	29-Sep-17	01:24:56
45	170928M3_45	1701294-04 RI17-5171-MW-1-091817 0.125	29-Sep-17	01:35:43
46	170928M3_46	1701294-05 RI17-EB-MW-1-091817 0.125	29-Sep-17	01:46:29
47	170928M3_47	1701294-06 RI17-MW-1(3-8)-091817 0.125	29-Sep-17	01:57:07
48	170928M3_48	1701294-07 RI17-MW-1(3-8)-091817 Dup 0.125	29-Sep-17	02:07:54
49	170928M3_49	1701294-08 RI17-MW-1(17-18)-091917 0.125	29-Sep-17	02:18:33
50	170928M3_50	IPA	29-Sep-17	02:29:11
51	170928M3_51	ST170928M3-12 PFC CS3 17I2814	29-Sep-17	02:39:49
52	170928M3_52	IPA	29-Sep-17	02:50:28
53	170928M3_53	1701294-09 RI17-MW-2(2-7)-091917 0.125	29-Sep-17	03:01:14
54	170928M3_54	1701294-10 RI17-MW-2(12-13)-091917 0.125	29-Sep-17	03:11:52
55	170928M3_55	1701294-11 RI17-MW-2(17-18)-091917 0.125	29-Sep-17	03:22:39
56	170928M3_56	1701294-12 VAS-RI17-B21(108-110FT) 0.125	29-Sep-17	03:33:17
57	170928M3_57	1701294-13 VAS-RI17-B21(69-71FT) 0.125	29-Sep-17	03:44:04
58	170928M3_58	1701294-14 VAS-RI17-B21(61-63FT) 0.125	29-Sep-17	03:54:42
59	170928M3_59	1701294-15 VAS-RI17-B21(61-63FT) Dup 0.125	29-Sep-17	04:05:21
60	170928M3_60	1701294-16 Pond 1-2 @ Dam PD 0.125	29-Sep-17	04:16:11
61	170928M3_61	1701294-17 SW-VEL L4 0.125	29-Sep-17	04:26:53
62	170928M3_62	B7I0026-BS3	29-Sep-17	04:37:40
63	170928M3_63	B7I0026-BS4	29-Sep-17	04:48:18
64	170928M3_64	B7I0026-BS5	29-Sep-17	04:59:05
65	170928M3_65	IPA	29-Sep-17	05:09:51
66	170928M3_66	1701279-03 MH-117T-20170918 0.125	29-Sep-17	05:20:30
67	170928M3_67	IPA	29-Sep-17	05:31:16
68	170928M3_68	ST170928M3-13 PFC CS0 17I2811	29-Sep-17	05:41:54

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
69	170928M3_69	IPA	29-Sep-17	05:52:41
70	170928M3_70	1701279-11 MH-140N-20170918 0.125	29-Sep-17	06:03:19
71	170928M3_71	1701279-12 INTERCEPTOR SUMP-2017091...	29-Sep-17	06:13:58
72	170928M3_72	1701279-15 SPRING-20170918 0.125	29-Sep-17	06:24:36
73	170928M3_73	IPA	29-Sep-17	06:35:15
74	170928M3_74	MB TESTER	29-Sep-17	06:46:01
75	170928M3_75	B7I0137-BS1 OPR 0.25	29-Sep-17	06:56:48
76	170928M3_76	B7I0142-BS1 OPR 1	29-Sep-17	07:07:51
77	170928M3_77	IPA	29-Sep-17	07:18:37
78	170928M3_78	B7I0137-BLK1 Method Blank 0.25	29-Sep-17	07:29:23
79	170928M3_79	B7I0142-BLK1 Method Blank 1	29-Sep-17	07:40:09
80	170928M3_80	1701301-01 RI17-MW-4 (59-60)-091917 0.243...	29-Sep-17	07:50:48
81	170928M3_81	1701301-02 RI17-MW-6 (5-10)-091917 0.24128	29-Sep-17	08:01:26
82	170928M3_82	1701301-03 RI17-MW-8 (3-8)-092017 0.25036	29-Sep-17	08:12:05
83	170928M3_83	1701301-04 RI17-MW-8 (18-19)-092017 0.254...	29-Sep-17	08:22:51
84	170928M3_84	1701301-05 RI17-MW-8 (27.5-28.5)-092017 0....	29-Sep-17	08:33:30
85	170928M3_85	1701301-06 RI17-MW-8 (37-38)-092017 0.251...	29-Sep-17	08:44:16
86	170928M3_86	1701301-07 RI17-FRB-MW-8-092017 0.25277	29-Sep-17	08:54:54
87	170928M3_87	IPA	29-Sep-17	09:05:41
88	170928M3_88	ST170928M3-14 PFC CS3 17I2814	29-Sep-17	09:16:19
89	170928M3_89	IPA	29-Sep-17	09:27:05
90	170928M3_90	1701301-08 RI17-MW-6 (20-21)-092017 0.2177	29-Sep-17	09:38:54
91	170928M3_91	1701301-09 RI17-MW-6 (30-31)-092017 0.253...	29-Sep-17	09:50:09
92	170928M3_92	1701301-10 RI17-MW-6 (40-41)-092017 0.252...	29-Sep-17	10:00:47
93	170928M3_93	1701301-11 RI17-MW-6 (50-51)-092017 0.249...	29-Sep-17	10:11:34
94	170928M3_94	1701301-12 RI17-MW-29 (2.5-7.5)-092017 0.2...	29-Sep-17	10:22:19
95	170928M3_95	1701301-13 RI17-MW-29 (2.5-7.5)-092017 DU...	29-Sep-17	10:32:58
96	170928M3_96	1701301-14 RI17-MW-29 (12.5-13.5)-092017 ...	29-Sep-17	10:43:45
97	170928M3_97	1701301-15 RI17-MW-29 (24-25)-092017 0.26...	29-Sep-17	10:54:31
98	170928M3_98	1701301-16 RI17-MW-29 (31-32)-092017 0.25...	29-Sep-17	11:05:17
99	170928M3_99	1701305-01 908 0.11854	29-Sep-17	11:16:04
100	170928M3_100	IPA	29-Sep-17	11:26:42
101	170928M3_101	ST170928M3-15 PFC CS3 17I2814	29-Sep-17	11:37:54
102	170928M3_102	IPA	29-Sep-17	11:49:12
103	170928M3_103	1701305-02 919 0.11781	29-Sep-17	11:59:54
104	170928M3_104	1701305-03 921 0.11352	29-Sep-17	12:10:41

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
105	170928M3_105	1701278-01 MTBE_6193 0.125	29-Sep-17	12:22:07
106	170928M3_106	1701310-01 NB-101S 0.125	29-Sep-17	12:32:45
107	170928M3_107	1701310-02 NB-102S 0.125	29-Sep-17	12:43:32
108	170928M3_108	1701310-03 NB-105D 0.125	29-Sep-17	12:54:11
109	170928M3_109	1701310-04 DUPLICATE 0.125	29-Sep-17	13:04:49
110	170928M3_110	1701310-05 PFAS FIELD BLANK 0.125	29-Sep-17	13:15:27
111	170928M3_111	1701311-01 MTBE_7214 0.125	29-Sep-17	13:26:14
112	170928M3_112	IPA	29-Sep-17	13:36:53
113	170928M3_113	ST170928M3-16 PFC CS3 17I2814	29-Sep-17	13:47:31
114	170928M3_114	IPA	29-Sep-17	13:58:09

Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

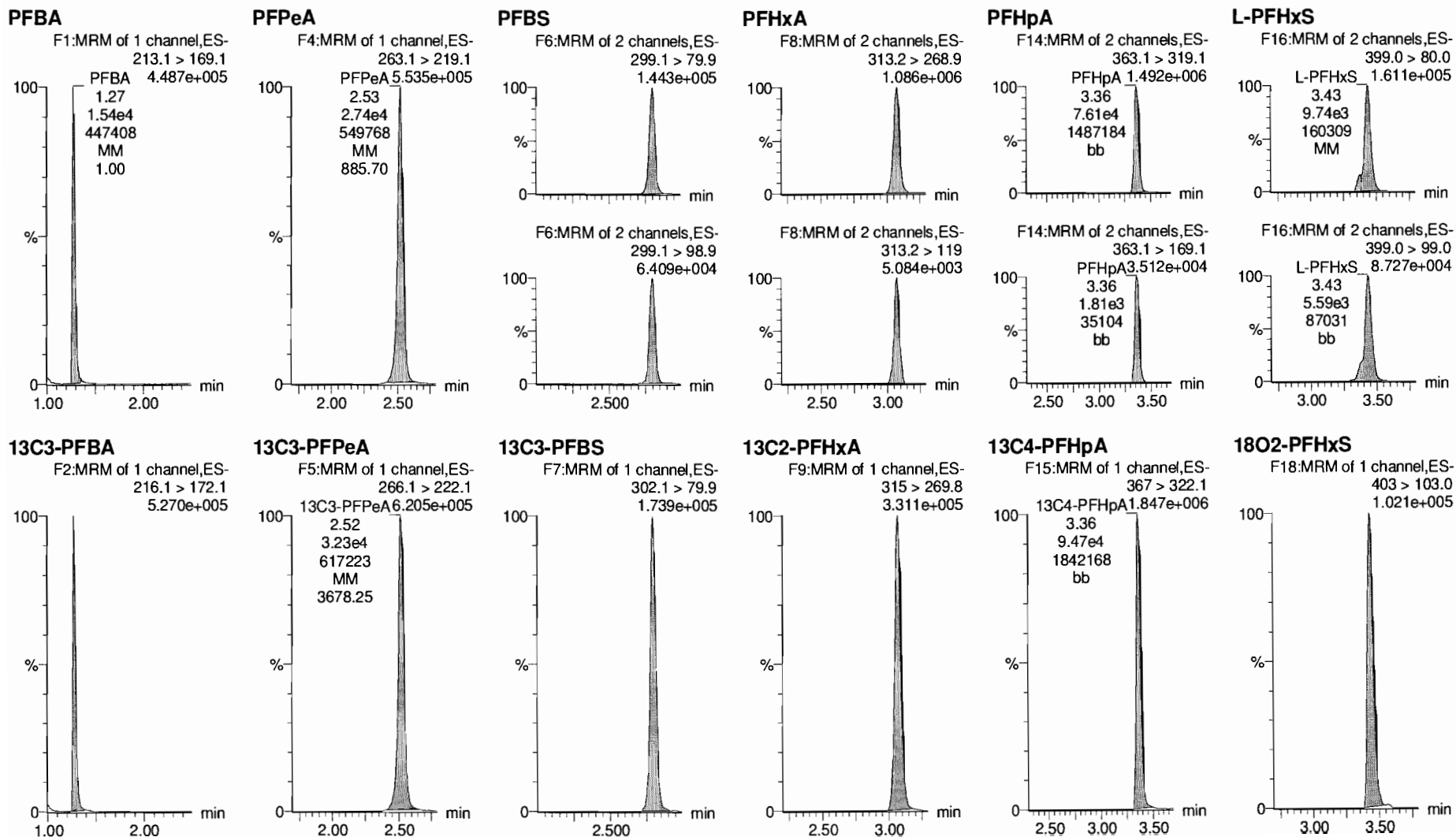
Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 1712814, Description: PFC CS3 1712814

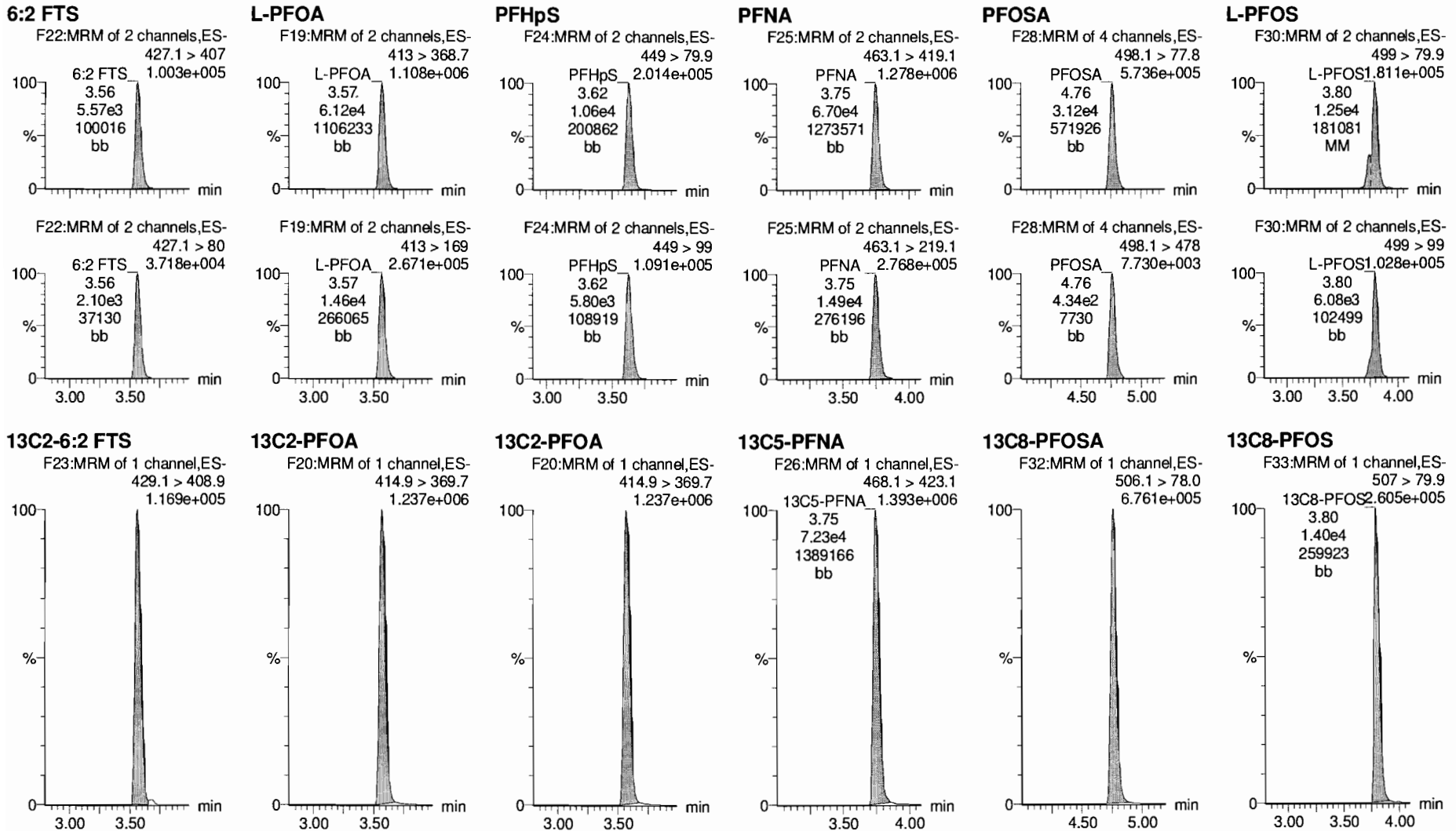


Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 17I2814, Description: PFC CS3 17I2814

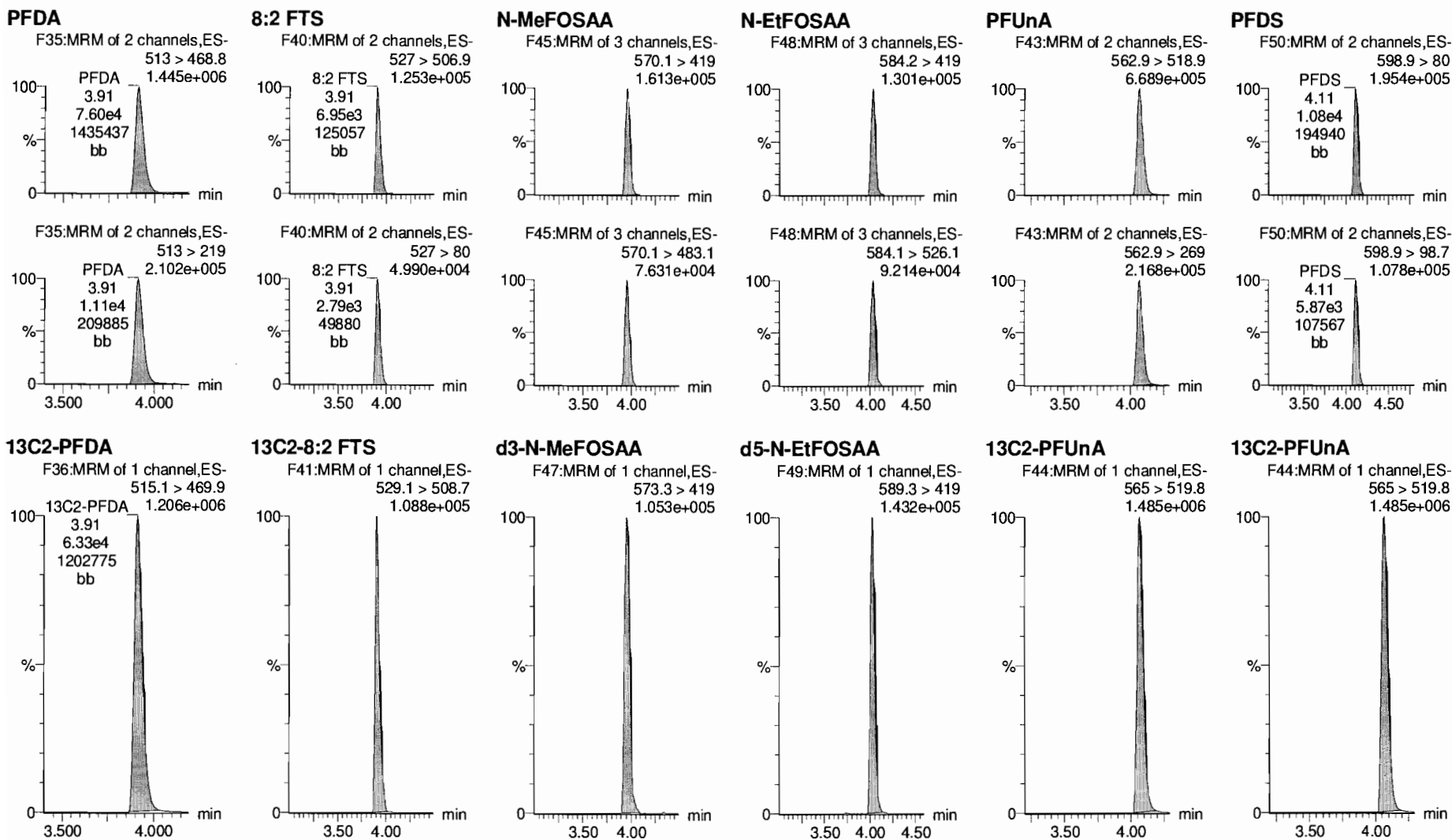


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Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 17I2814, Description: PFC CS3 17I2814

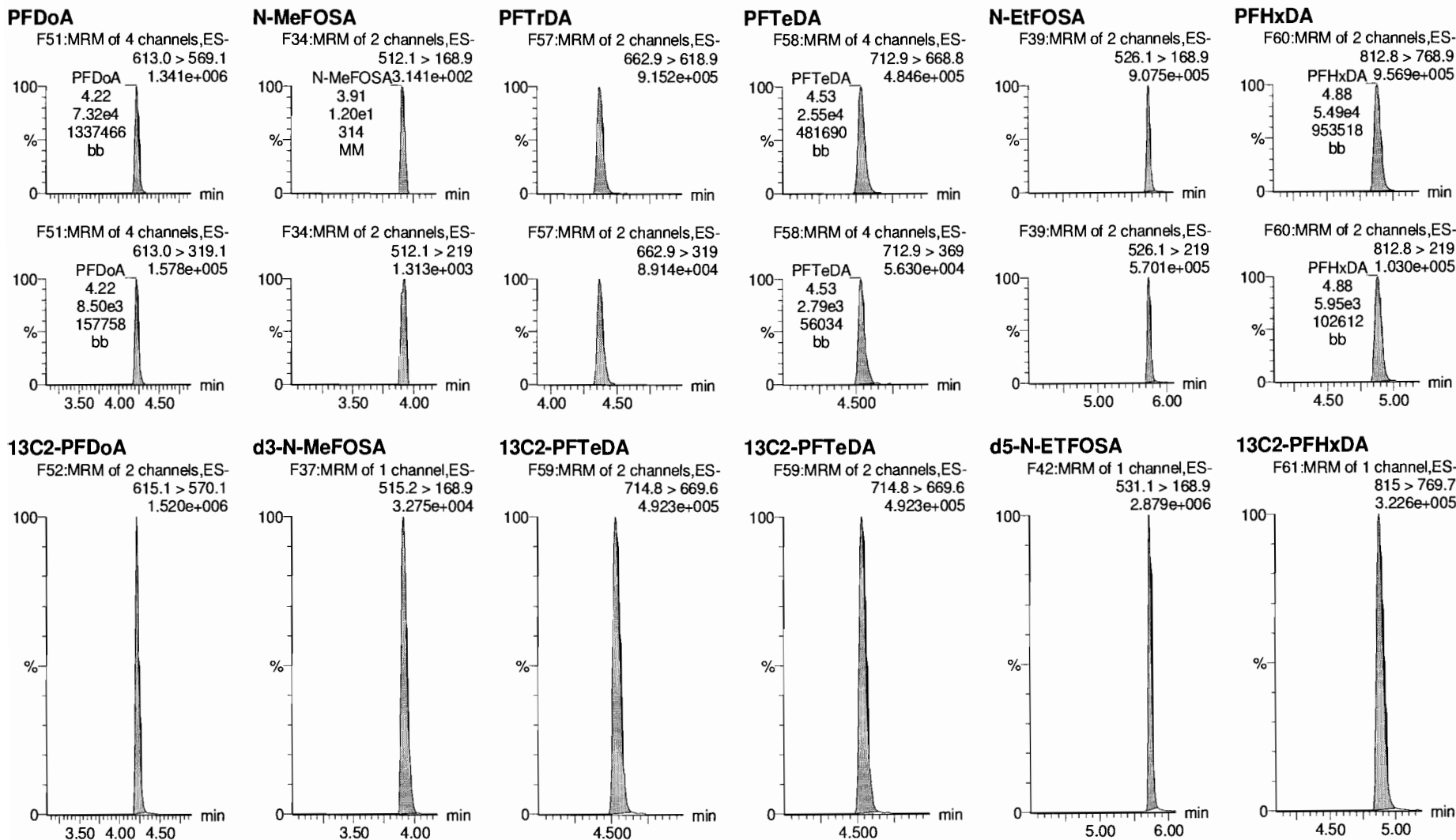


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Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 1712814, Description: PFC CS3 1712814



Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

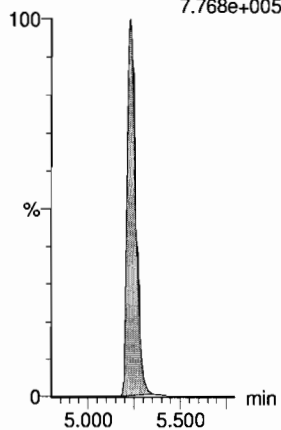
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Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

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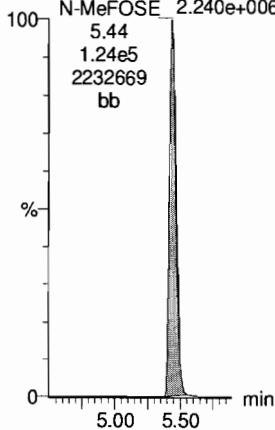
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
7.768e+005



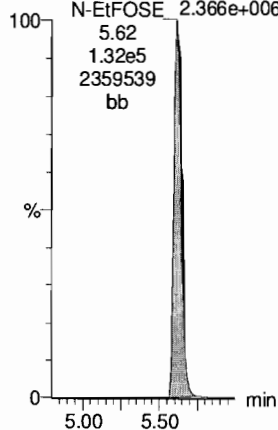
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
2.240e+006



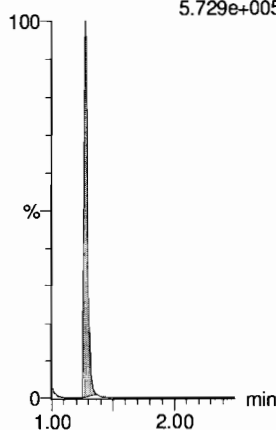
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
2.366e+006



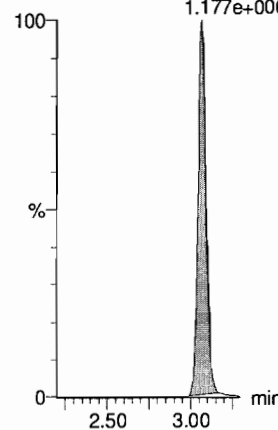
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1
5.729e+005



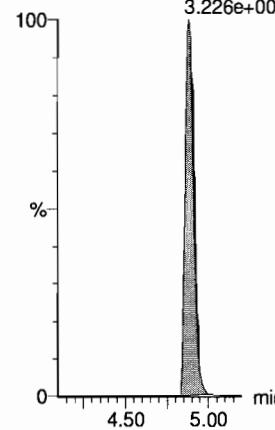
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
1.177e+006



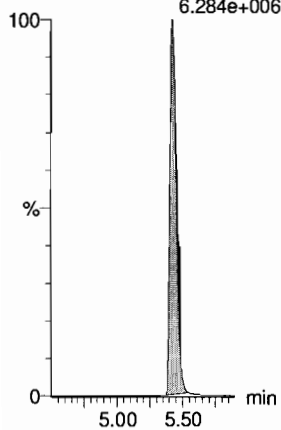
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.226e+005



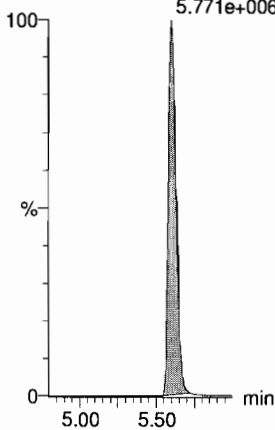
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
6.284e+006



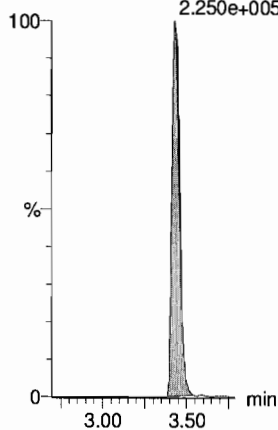
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.771e+006



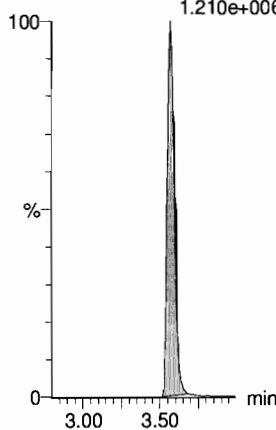
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
2.250e+005



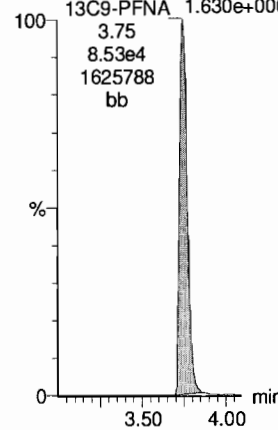
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.210e+006



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
1.630e+006



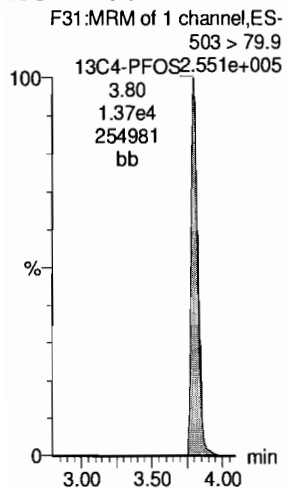
Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

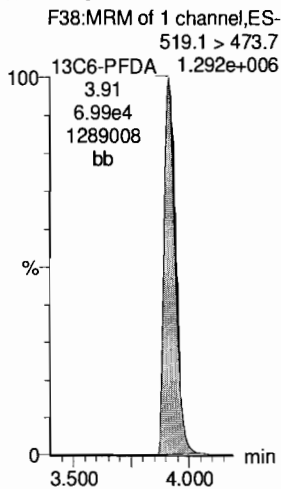
Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 1712814, Description: PFC CS3 1712814

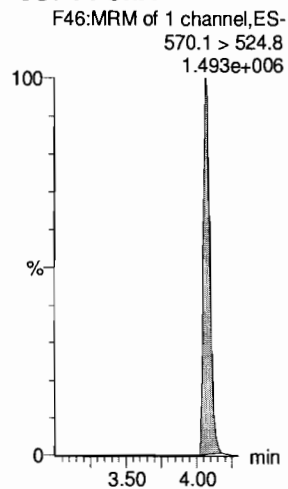
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-IIS_AREA.qld

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Method: U:\G1.PRO\MethDB\PFAS_RS AREAS_0809.mdb 19 Sep 2017 08:51:05

Calibration: 09 Oct 2017 12:48:55

Name: 170928G1_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 1712622, Description: PFC CS-2 1712622

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	5621.776	5621.776	NO	12.8	102.8
2	2 13C4-PFBA	216.9 > 171.8	1.75	24460.455	24460.455	NO	12.7	101.9
3	3 13C5-PFHxA	318.0 > 272.9	3.34	27225.922	27225.922	NO	14.6	117.0
4	4 13C3-PFHxS	401.9 > 79.9	3.97	12372.742	12372.742	NO	13.1	104.8
5	5 13C8-PFOA	421.3 > 376	4.25	5780.316	5780.316	NO	11.7	93.8
6	6 13C4-PFOS	503.0 > 79.9	4.67	7432.231	7432.231	NO	12.6	100.7
7	7 13C9-PFNA	472.2 > 426.9	4.60	7838.953	7838.953	NO	12.2	98.0
8	8 13C6-PFDA	519.1 > 473.7	4.90	5386.665	5386.665	NO	10.8	86.1

Name: 170928G1_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	5232.053	5232.053	NO	12.0	95.7
2	2 13C4-PFBA	216.9 > 171.8	1.76	21405.756	21405.756	NO	11.1	89.2
3	3 13C5-PFHxA	318.0 > 272.9	3.34	21358.213	21358.213	NO	11.5	91.8
4	4 13C3-PFHxS	401.9 > 79.9	3.97	11141.503	11141.503	NO	11.8	94.4
5	5 13C8-PFOA	421.3 > 376	4.25	4919.356	4919.356	NO	10.0	79.8
6	6 13C4-PFOS	503.0 > 79.9	4.67	5698.064	5698.064	NO	9.6	77.2
7	7 13C9-PFNA	472.2 > 426.9	4.60	6773.147	6773.147	NO	10.6	84.6
8	8 13C6-PFDA	519.1 > 473.7	4.90	4368.508	4368.508	NO	8.7	69.8

Name: 170928G1_4, Date: 28-Sep-2017, Time: 09:02:05, ID: ST170928G1-3 PFC CS0 1712624, Description: PFC CS0 1712624

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	6066.709	6066.709	NO	13.9	110.9
2	2 13C4-PFBA	216.9 > 171.8	1.76	25514.059	25514.059	NO	13.3	106.3
3	3 13C5-PFHxA	318.0 > 272.9	3.34	26469.664	26469.664	NO	14.2	113.7
4	4 13C3-PFHxS	401.9 > 79.9	3.97	13481.013	13481.013	NO	14.3	114.2
5	5 13C8-PFOA	421.3 > 376	4.26	6176.654	6176.654	NO	12.5	100.2
6	6 13C4-PFOS	503.0 > 79.9	4.67	8272.104	8272.104	NO	14.0	112.0
7	7 13C9-PFNA	472.2 > 426.9	4.60	9159.829	9159.829	NO	14.3	114.5
8	8 13C6-PFDA	519.1 > 473.7	4.90	6405.082	6405.082	NO	12.8	102.4

Name: 170928G1_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	5426.496	5426.496	NO	12.4	99.2
2	2 13C4-PFBA	216.9 > 171.8	1.76	24738.973	24738.973	NO	12.9	103.0
3	3 13C5-PFHxA	318.0 > 272.9	3.34	23831.510	23831.510	NO	12.8	102.4
4	4 13C3-PFHxS	401.9 > 79.9	3.97	11968.285	11968.285	NO	12.7	101.4
5	5 13C8-PFOA	421.3 > 376	4.26	6300.243	6300.243	NO	12.8	102.2
6	6 13C4-PFOS	503.0 > 79.9	4.67	6481.771	6481.771	NO	11.0	87.8
7	7 13C9-PFNA	472.2 > 426.9	4.60	7621.554	7621.554	NO	11.9	95.2
8	8 13C6-PFDA	519.1 > 473.7	4.90	4956.162	4956.162	NO	9.9	79.2

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-IIS_AREA.qld

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Name: 170928G1_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 17I2626, Description: PFC CS2 17I2626

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.97	5971.027	5971.027	NO	13.6	109.2
2	2 13C4-PFBA	216.9 > 171.8	1.76	24588.061	24588.061	NO	12.8	102.4
3	3 13C5-PFHxA	318.0 > 272.9	3.34	23722.184	23722.184	NO	12.7	101.9
4	4 13C3-PFHxS	401.9 > 79.9	3.98	11112.146	11112.146	NO	11.8	94.1
5	5 13C8-PFOA	421.3 > 376	4.26	6106.645	6106.645	NO	12.4	99.1
6	6 13C4-PFOS	503.0 > 79.9	4.67	7128.604	7128.604	NO	12.1	96.6
7	7 13C9-PFNA	472.2 > 426.9	4.60	7673.738	7673.738	NO	12.0	95.9
8	8 13C6-PFDA	519.1 > 473.7	4.90	5678.416	5678.416	NO	11.3	90.8

Name: 170928G1_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 17I2627, Description: PFC CS3 17I2627

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.97	7005.563	7005.563	NO	16.0	128.1
2	2 13C4-PFBA	216.9 > 171.8	1.76	28908.408	28908.408	NO	15.1	120.4
3	3 13C5-PFHxA	318.0 > 272.9	3.34	28190.441	28190.441	NO	15.1	121.1
4	4 13C3-PFHxS	401.9 > 79.9	3.97	13041.214	13041.214	NO	13.8	110.5
5	5 13C8-PFOA	421.3 > 376	4.26	6788.285	6788.285	NO	13.8	110.1
6	6 13C4-PFOS	503.0 > 79.9	4.67	7161.530	7161.530	NO	12.1	97.0
7	7 13C9-PFNA	472.2 > 426.9	4.60	8510.809	8510.809	NO	13.3	106.4
8	8 13C6-PFDA	519.1 > 473.7	4.90	5248.009	5248.009	NO	10.5	83.9

Name: 170928G1_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 17I2628, Description: PFC CS4 17I2628

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.97	5148.696	5148.696	NO	11.8	94.1
2	2 13C4-PFBA	216.9 > 171.8	1.76	24765.691	24765.691	NO	12.9	103.2
3	3 13C5-PFHxA	318.0 > 272.9	3.34	23060.199	23060.199	NO	12.4	99.1
4	4 13C3-PFHxS	401.9 > 79.9	3.97	11972.489	11972.489	NO	12.7	101.4
5	5 13C8-PFOA	421.3 > 376	4.26	7089.111	7089.111	NO	14.4	115.0
6	6 13C4-PFOS	503.0 > 79.9	4.67	7717.703	7717.703	NO	13.1	104.5
7	7 13C9-PFNA	472.2 > 426.9	4.60	8198.874	8198.874	NO	12.8	102.5
8	8 13C6-PFDA	519.1 > 473.7	4.90	7258.260	7258.260	NO	14.5	116.0

Name: 170928G1_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 17I2629, Description: PFC CS5 17I2629

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.97	4791.130	4791.130	NO	11.0	87.6
2	2 13C4-PFBA	216.9 > 171.8	1.76	21537.979	21537.979	NO	11.2	89.7
3	3 13C5-PFHxA	318.0 > 272.9	3.34	18815.213	18815.213	NO	10.1	80.8
4	4 13C3-PFHxS	401.9 > 79.9	3.97	10602.389	10602.389	NO	11.2	89.8
5	5 13C8-PFOA	421.3 > 376	4.26	5961.214	5961.214	NO	12.1	96.7
6	6 13C4-PFOS	503.0 > 79.9	4.67	7337.378	7337.378	NO	12.4	99.4
7	7 13C9-PFNA	472.2 > 426.9	4.60	7916.042	7916.042	NO	12.4	98.9
8	8 13C6-PFDA	519.1 > 473.7	4.90	7216.327	7216.327	NO	14.4	115.4

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Name: 170928G1_10, Date: 28-Sep-2017, Time: 10:17:33, ID: ST170928G1-9 PFC CS6 17I2630, Description: PFC CS6 17I2630

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3958.887	3958.887	NO	9.0	72.4
2	2 13C4-PFBA	216.9 > 171.8	1.75	20141.605	20141.605	NO	10.5	83.9
3	3 13C5-PFHxA	318.0 > 272.9	3.34	16792.432	16792.432	NO	9.0	72.2
4	4 13C3-PFHxS	401.9 > 79.9	3.97	10553.370	10553.370	NO	11.2	89.4
5	5 13C8-PFOA	421.3 > 376	4.25	6360.460	6360.460	NO	12.9	103.2
6	6 13C4-PFOS	503.0 > 79.9	4.67	9217.905	9217.905	NO	15.6	124.9
7	7 13C9-PFNA	472.2 > 426.9	4.60	8325.311	8325.311	NO	13.0	104.0
8	8 13C6-PFDA	519.1 > 473.7	4.90	9778.525	9778.525	NO	19.5	156.3

Name: 170928G1_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8				NO		
2	2 13C4-PFBA	216.9 > 171.8				NO		
3	3 13C5-PFHxA	318.0 > 272.9				NO		
4	4 13C3-PFHxS	401.9 > 79.9				NO		
5	5 13C8-PFOA	421.3 > 376				NO		
6	6 13C4-PFOS	503.0 > 79.9				NO		
7	7 13C9-PFNA	472.2 > 426.9				NO		
8	8 13C6-PFDA	519.1 > 473.7				NO		

Name: 170928G1_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.97	5825.995	5825.995	NO	13.3	106.5
2	2 13C4-PFBA	216.9 > 171.8	1.76	22957.758	22957.758	NO	12.0	95.6
3	3 13C5-PFHxA	318.0 > 272.9	3.34	21884.443	21884.443	NO	11.8	94.0
4	4 13C3-PFHxS	401.9 > 79.9	3.97	12384.241	12384.241	NO	13.1	104.9
5	5 13C8-PFOA	421.3 > 376	4.26	6179.977	6179.977	NO	12.5	100.2
6	6 13C4-PFOS	503.0 > 79.9	4.67	8073.254	8073.254	NO	13.7	109.3
7	7 13C9-PFNA	472.2 > 426.9	4.60	7736.490	7736.490	NO	12.1	96.7
8	8 13C6-PFDA	519.1 > 473.7	4.90	6044.949	6044.949	NO	12.1	96.6

Name: 170928G1_13, Date: 28-Sep-2017, Time: 10:55:07, ID: IPA, Description: IPA

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8				NO		
2	2 13C4-PFBA	216.9 > 171.8				NO		
3	3 13C5-PFHxA	318.0 > 272.9				NO		
4	4 13C3-PFHxS	401.9 > 79.9				NO		
5	5 13C8-PFOA	421.3 > 376				NO		
6	6 13C4-PFOS	503.0 > 79.9				NO		
7	7 13C9-PFNA	472.2 > 426.9				NO		
8	8 13C6-PFDA	519.1 > 473.7				NO		

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-IIS_AREA.qld

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Name: 170928G1_14, Date: 28-Sep-2017, Time: 11:07:44, ID: B710026-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	2922.546	2922.546	NO	53.4	53.4
2	2 13C4-PFBA	216.9 > 171.8	1.71	12289.238	12289.238	NO	51.2	51.2
3	3 13C5-PFHxA	318.0 > 272.9	3.34	12344.939	12344.939	NO	53.0	53.0
4	4 13C3-PFHxS	401.9 > 79.9	3.97	8060.702	8060.702	NO	68.3	68.3
5	5 13C8-PFOA	421.3 > 376	4.25	4617.558	4617.558	NO	74.9	74.9
6	6 13C4-PFOS	503.0 > 79.9	4.66	7501.691	7501.691	NO	101.6	101.6
7	7 13C9-PFNA	472.2 > 426.9	4.60	6843.819	6843.819	NO	85.5	85.5
8	8 13C6-PFDA	519.1 > 473.7	4.90	6886.944	6886.944	NO	110.1	110.1

Name: 170928G1_15, Date: 28-Sep-2017, Time: 11:20:11, ID: B710026-BS2 OPR 0.125, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	2114.104	2114.104	YES	38.7	38.7
2	2 13C4-PFBA	216.9 > 171.8	1.73	8373.159	8373.159	YES	34.9	34.9
3	3 13C5-PFHxA	318.0 > 272.9	3.34	7679.284	7679.284	YES	33.0	33.0
4	4 13C3-PFHxS	401.9 > 79.9	3.97	4974.423	4974.423	YES	42.1	42.1
5	5 13C8-PFOA	421.3 > 376	4.25	3390.017	3390.017	NO	55.0	55.0
6	6 13C4-PFOS	503.0 > 79.9	4.66	4477.144	4477.144	NO	60.6	60.6
7	7 13C9-PFNA	472.2 > 426.9	4.60	4021.171	4021.171	NO	50.3	50.3
8	8 13C6-PFDA	519.1 > 473.7	4.90	4076.460	4076.460	NO	65.2	65.2

Name: 170928G1_16, Date: 28-Sep-2017, Time: 11:32:44, ID: B710026-BS3 OPR 0.125, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	2328.883	2328.883	YES	42.6	42.6
2	2 13C4-PFBA	216.9 > 171.8	1.73	9953.916	9953.916	YES	41.5	41.5
3	3 13C5-PFHxA	318.0 > 272.9	3.34	9864.138	9864.138	YES	42.4	42.4
4	4 13C3-PFHxS	401.9 > 79.9	3.97	6103.955	6103.955	NO	51.7	51.7
5	5 13C8-PFOA	421.3 > 376	4.25	3958.040	3958.040	NO	64.2	64.2
6	6 13C4-PFOS	503.0 > 79.9	4.67	5184.148	5184.148	NO	70.2	70.2
7	7 13C9-PFNA	472.2 > 426.9	4.60	4814.583	4814.583	NO	60.2	60.2
8	8 13C6-PFDA	519.1 > 473.7	4.90	5108.736	5108.736	NO	81.7	81.7

Name: 170928G1_17, Date: 28-Sep-2017, Time: 11:45:19, ID: B710026-BS4 OPR 0.125, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	2257.252	2257.252	YES	41.3	41.3
2	2 13C4-PFBA	216.9 > 171.8	1.73	8877.512	8877.512	YES	37.0	37.0
3	3 13C5-PFHxA	318.0 > 272.9	3.34	8623.233	8623.233	YES	37.1	37.1
4	4 13C3-PFHxS	401.9 > 79.9	3.97	5930.972	5930.972	NO	50.2	50.2
5	5 13C8-PFOA	421.3 > 376	4.25	3370.889	3370.889	NO	54.7	54.7
6	6 13C4-PFOS	503.0 > 79.9	4.66	5019.230	5019.230	NO	68.0	68.0
7	7 13C9-PFNA	472.2 > 426.9	4.60	4091.934	4091.934	NO	51.1	51.1
8	8 13C6-PFDA	519.1 > 473.7	4.90	4358.864	4358.864	NO	69.7	69.7

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Name: 170928G1_18, Date: 28-Sep-2017, Time: 11:57:55, ID: B710026-BS5 OPR 0.125, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	2712.987	2712.987	YES	49.6	49.6
2	2 13C4-PFBA	216.9 > 171.8	1.73	9462.642	9462.642	YES	39.4	39.4
3	3 13C5-PFHxA	318.0 > 272.9	3.34	9272.097	9272.097	YES	39.8	39.8
4	4 13C3-PFHxS	401.9 > 79.9	3.97	5899.938	5899.938	YES	50.0	50.0
5	5 13C8-PFOA	421.3 > 376	4.25	3542.319	3542.319	NO	57.5	57.5
6	6 13C4-PFOS	503.0 > 79.9	4.66	5686.742	5686.742	NO	77.0	77.0
7	7 13C9-PFNA	472.2 > 426.9	4.60	4792.318	4792.318	NO	59.9	59.9
8	8 13C6-PFDA	519.1 > 473.7	4.90	5284.408	5284.408	NO	84.5	84.5

Name: 170928G1_19, Date: 28-Sep-2017, Time: 12:18:28, ID: IPA, Description: IPA

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8				NO		
2	2 13C4-PFBA	216.9 > 171.8				NO		
3	3 13C5-PFHxA	318.0 > 272.9				NO		
4	4 13C3-PFHxS	401.9 > 79.9				NO		
5	5 13C8-PFOA	421.3 > 376				NO		
6	6 13C4-PFOS	503.0 > 79.9				NO		
7	7 13C9-PFNA	472.2 > 426.9				NO		
8	8 13C6-PFDA	519.1 > 473.7				NO		

Name: 170928G1_20, Date: 28-Sep-2017, Time: 12:30:40, ID: B710125-BLK1 Method Blank 1, Description: Method Blank

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.97	2928.530	2928.530	NO	6.7	53.5
2	2 13C4-PFBA	216.9 > 171.8	1.69	10283.151	10283.151	YES	5.4	42.8
3	3 13C5-PFHxA	318.0 > 272.9	3.34	9436.907	9436.907	YES	5.1	40.5
4	4 13C3-PFHxS	401.9 > 79.9	3.97	3692.096	3692.096	YES	3.9	31.3
5	5 13C8-PFOA	421.3 > 376	4.26	1893.154	1893.154	YES	3.8	30.7
6	6 13C4-PFOS	503.0 > 79.9	4.66	261.138	261.138	YES	0.4	3.5
7	7 13C9-PFNA	472.2 > 426.9	4.60	1026.545	1026.545	YES	1.6	12.8
8	8 13C6-PFDA	519.1 > 473.7	4.90	230.040	230.040	YES	0.5	3.7

Name: 170928G1_21, Date: 28-Sep-2017, Time: 12:43:09, ID: B710125-BS2 OPR 1, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3081.513	3081.513	NO	7.0	56.3
2	2 13C4-PFBA	216.9 > 171.8	1.70	8140.143	8140.143	YES	4.2	33.9
3	3 13C5-PFHxA	318.0 > 272.9	3.34	8212.004	8212.004	YES	4.4	35.3
4	4 13C3-PFHxS	401.9 > 79.9	3.97	5218.659	5218.659	YES	5.5	44.2
5	5 13C8-PFOA	421.3 > 376	4.25	1771.148	1771.148	YES	3.6	28.7
6	6 13C4-PFOS	503.0 > 79.9	4.66	739.501	739.501	YES	1.3	10.0
7	7 13C9-PFNA	472.2 > 426.9	4.60	1492.246	1492.246	YES	2.3	18.6
8	8 13C6-PFDA	519.1 > 473.7	4.90	488.359	488.359	YES	1.0	7.8

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Name: 170928G1_22, Date: 28-Sep-2017, Time: 12:55:43, ID: B710125-BS3 OPR 1, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3528.712	3528.712	NO	8.1	64.5
2	2 13C4-PFBA	216.9 > 171.8	1.69	10449.770	10449.770	YES	5.4	43.5
3	3 13C5-PFHxA	318.0 > 272.9	3.34	10634.647	10634.647	YES	5.7	45.7
4	4 13C3-PFHxS	401.9 > 79.9	3.97	4283.568	4283.568	YES	4.5	36.3
5	5 13C8-PFOA	421.3 > 376	4.25	2140.170	2140.170	YES	4.3	34.7
6	6 13C4-PFOS	503.0 > 79.9	4.66	590.575	590.575	YES	1.0	8.0
7	7 13C9-PFNA	472.2 > 426.9	4.59	1560.036	1560.036	YES	2.4	19.5
8	8 13C6-PFDA	519.1 > 473.7	4.89	390.873	390.873	YES	0.8	6.2

Name: 170928G1_23, Date: 28-Sep-2017, Time: 13:08:16, ID: B710125-BS4 OPR 1, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	587.402	587.402	YES	1.3	10.7
2	2 13C4-PFBA	216.9 > 171.8	1.77	2072.000	2072.000	YES	1.1	8.6
3	3 13C5-PFHxA	318.0 > 272.9	3.33	1567.737	1567.737	YES	0.8	6.7
4	4 13C3-PFHxS	401.9 > 79.9	3.97	402.324	402.324	YES	0.4	3.4
5	5 13C8-PFOA	421.3 > 376	4.26	113.230	113.230	YES	0.2	1.8
6	6 13C4-PFOS	503.0 > 79.9	4.66	37.818	37.818	YES	0.1	0.5
7	7 13C9-PFNA	472.2 > 426.9	4.59	51.764	51.764	YES	0.1	0.6
8	8 13C6-PFDA	519.1 > 473.7	4.89	21.463	21.463	YES	0.0	0.3

Name: 170928G1_24, Date: 28-Sep-2017, Time: 13:20:49, ID: B710125-BS5 OPR 1, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3327.887	3327.887	NO	7.6	60.8
2	2 13C4-PFBA	216.9 > 171.8	1.69	11296.436	11296.436	YES	5.9	47.1
3	3 13C5-PFHxA	318.0 > 272.9	3.34	10328.722	10328.722	YES	5.5	44.4
4	4 13C3-PFHxS	401.9 > 79.9	3.97	3898.853	3898.853	YES	4.1	33.0
5	5 13C8-PFOA	421.3 > 376	4.25	2398.526	2398.526	YES	4.9	38.9
6	6 13C4-PFOS	503.0 > 79.9	4.66	549.480	549.480	YES	0.9	7.4
7	7 13C9-PFNA	472.2 > 426.9	4.59	1376.599	1376.599	YES	2.2	17.2
8	8 13C6-PFDA	519.1 > 473.7	4.89	386.634	386.634	YES	0.8	6.2

Name: 170928G1_25, Date: 28-Sep-2017, Time: 13:33:23, ID: IPA, Description: IPA

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8				NO		
2	2 13C4-PFBA	216.9 > 171.8				NO		
3	3 13C5-PFHxA	318.0 > 272.9				NO		
4	4 13C3-PFHxS	401.9 > 79.9				NO		
5	5 13C8-PFOA	421.3 > 376				NO		
6	6 13C4-PFOS	503.0 > 79.9				NO		
7	7 13C9-PFNA	472.2 > 426.9				NO		
8	8 13C6-PFDA	519.1 > 473.7				NO		

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Name: 170928G1_26, Date: 28-Sep-2017, Time: 13:45:56, ID: B710091-BS1 OPR 0.25, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	4374.063	4374.063	NO	40.0	80.0
2	2 13C4-PFBA	216.9 > 171.8	1.71	7696.161	7696.161	YES	16.0	32.1
3	3 13C5-PFHxA	318.0 > 272.9	3.34	14243.638	14243.638	NO	30.6	61.2
4	4 13C3-PFHxS	401.9 > 79.9	3.97	9760.628	9760.628	NO	41.3	82.7
5	5 13C8-PFOA	421.3 > 376	4.26	5753.324	5753.324	NO	46.7	93.3
6	6 13C4-PFOS	503.0 > 79.9	4.67	10452.104	10452.104	NO	70.8	141.6
7	7 13C9-PFNA	472.2 > 426.9	4.60	9222.756	9222.756	NO	57.6	115.3
8	8 13C6-PFDA	519.1 > 473.7	4.90	10655.863	10655.863	YES	85.2	170.4

Name: 170928G1_27, Date: 28-Sep-2017, Time: 13:58:32, ID: IPA, Description: IPA

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8				NO		
2	2 13C4-PFBA	216.9 > 171.8				NO		
3	3 13C5-PFHxA	318.0 > 272.9				NO		
4	4 13C3-PFHxS	401.9 > 79.9				NO		
5	5 13C8-PFOA	421.3 > 376				NO		
6	6 13C4-PFOS	503.0 > 79.9				NO		
7	7 13C9-PFNA	472.2 > 426.9				NO		
8	8 13C6-PFDA	519.1 > 473.7				NO		

Name: 170928G1_28, Date: 28-Sep-2017, Time: 14:11:05, ID: B710091-BLK1 Method Blank 0.25, Description: Method Blank

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3845.299	3845.299	NO	35.2	70.3
2	2 13C4-PFBA	216.9 > 171.8	1.71	7373.274	7373.274	YES	15.4	30.7
3	3 13C5-PFHxA	318.0 > 272.9	3.34	13142.604	13142.604	NO	28.2	56.5
4	4 13C3-PFHxS	401.9 > 79.9	3.97	10065.231	10065.231	NO	42.6	85.3
5	5 13C8-PFOA	421.3 > 376	4.26	6120.239	6120.239	NO	49.6	99.3
6	6 13C4-PFOS	503.0 > 79.9	4.67	10229.967	10229.967	NO	69.3	138.6
7	7 13C9-PFNA	472.2 > 426.9	4.60	9346.583	9346.583	NO	58.4	116.8
8	8 13C6-PFDA	519.1 > 473.7	4.90	11426.547	11426.547	YES	91.3	182.7

Name: 170928G1_29, Date: 28-Sep-2017, Time: 14:23:37, ID: 1701167-05RE1 919 0.11385, Description: 919

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	4429.233	4429.233	NO	88.9	81.0
2	2 13C4-PFBA	216.9 > 171.8	1.71	7236.522	7236.522	YES	33.1	30.1
3	3 13C5-PFHxA	318.0 > 272.9	3.34	13180.299	13180.299	NO	62.2	56.6
4	4 13C3-PFHxS	401.9 > 79.9	3.97	10956.873	10956.873	NO	101.9	92.8
5	5 13C8-PFOA	421.3 > 376	4.25	6376.033	6376.033	NO	113.6	103.4
6	6 13C4-PFOS	503.0 > 79.9	4.67	11610.590	11610.590	YES	172.7	157.3
7	7 13C9-PFNA	472.2 > 426.9	4.60	8331.926	8331.926	NO	114.3	104.1
8	8 13C6-PFDA	519.1 > 473.7	4.90	11762.493	11762.493	YES	206.5	188.0

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Name: 170928G1_30, Date: 28-Sep-2017, Time: 14:36:11, ID: IPA, Description: IPA

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8				NO		
2	13C4-PFBA	216.9 > 171.8				NO		
3	13C5-PFHxA	318.0 > 272.9				NO		
4	13C3-PFHxS	401.9 > 79.9				NO		
5	13C8-PFOA	421.3 > 376				NO		
6	13C4-PFOS	503.0 > 79.9				NO		
7	13C9-PFNA	472.2 > 426.9				NO		
8	13C6-PFDA	519.1 > 473.7				NO		

Name: 170928G1_31, Date: 28-Sep-2017, Time: 14:48:43, ID: 1701279-05 MH-118.5T-20170918 0.125, Description: MH-118.5T-20170918

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8	2.96	4797.614	4797.614	NO	97.3	87.7
2	13C4-PFBA	216.9 > 171.8	1.70	7076.670	7076.670	YES	32.7	29.5
3	13C5-PFHxA	318.0 > 272.9	3.34	13898.531	13898.531	NO	66.2	59.7
4	13C3-PFHxS	401.9 > 79.9	3.97	10528.298	10528.298	NO	98.9	89.2
5	13C8-PFOA	421.3 > 376	4.26	6749.473	6749.473	NO	121.4	109.5
6	13C4-PFOS	503.0 > 79.9	4.66	11399.865	11399.865	YES	171.2	154.4
7	13C9-PFNA	472.2 > 426.9	4.60	9052.247	9052.247	NO	125.5	113.1
8	13C6-PFDA	519.1 > 473.7	4.90	11506.996	11506.996	YES	204.0	184.0

Name: 170928G1_32, Date: 28-Sep-2017, Time: 15:01:16, ID: IPA, Description: IPA

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8				NO		
2	13C4-PFBA	216.9 > 171.8				NO		
3	13C5-PFHxA	318.0 > 272.9				NO		
4	13C3-PFHxS	401.9 > 79.9				NO		
5	13C8-PFOA	421.3 > 376				NO		
6	13C4-PFOS	503.0 > 79.9				NO		
7	13C9-PFNA	472.2 > 426.9				NO		
8	13C6-PFDA	519.1 > 473.7				NO		

Name: 170928G1_33, Date: 28-Sep-2017, Time: 15:13:52, ID: 1701279-04@5X MH-118.5N-20170918 0.125, Description: MH-118.5N-20170918

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8	2.96	320.068	320.068	YES	7.0	5.9
2	13C4-PFBA	216.9 > 171.8	1.72	769.670	769.670	YES	3.8	3.2
3	13C5-PFHxA	318.0 > 272.9	3.33	2336.761	2336.761	YES	12.0	10.0
4	13C3-PFHxS	401.9 > 79.9	3.97	1833.398	1833.398	YES	18.5	15.5
5	13C8-PFOA	421.3 > 376	4.26	1103.318	1103.318	YES	21.3	17.9
6	13C4-PFOS	503.0 > 79.9	4.67	1678.592	1678.592	YES	27.1	22.7
7	13C9-PFNA	472.2 > 426.9	4.60	1606.876	1606.876	YES	23.9	20.1
8	13C6-PFDA	519.1 > 473.7	4.90	2081.899	2081.899	YES	39.6	33.3

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Name: 170928G1_34, Date: 28-Sep-2017, Time: 15:29:20, ID: IPA, Description: IPA

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8				NO		
2	13C4-PFBA	216.9 > 171.8				NO		
3	13C5-PFHxA	318.0 > 272.9				NO		
4	13C3-PFHxS	401.9 > 79.9				NO		
5	13C8-PFOA	421.3 > 376				NO		
6	13C4-PFOS	503.0 > 79.9				NO		
7	13C9-PFNA	472.2 > 426.9				NO		
8	13C6-PFDA	519.1 > 473.7				NO		

Name: 170928G1_35, Date: 28-Sep-2017, Time: 15:41:32, ID: B7I0125-BS2 OPR 1, Description: OPR

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8	2.97	3565.967	3565.967	NO	8.2	65.2
2	13C4-PFBA	216.9 > 171.8	1.70	8613.091	8613.091	YES	4.5	35.9
3	13C5-PFHxA	318.0 > 272.9	3.34	9442.866	9442.866	YES	5.1	40.6
4	13C3-PFHxS	401.9 > 79.9	3.98	6659.244	6659.244	NO	7.1	56.4
5	13C8-PFOA	421.3 > 376	4.26	2642.305	2642.305	YES	5.4	42.9
6	13C4-PFOS	503.0 > 79.9	4.67	1230.179	1230.179	YES	2.1	16.7
7	13C9-PFNA	472.2 > 426.9	4.60	2144.340	2144.340	YES	3.3	26.8
8	13C6-PFDA	519.1 > 473.7	4.90	716.952	716.952	YES	1.4	11.5

Name: 170928G1_36, Date: 28-Sep-2017, Time: 15:54:05, ID: B7I0125-BS4 OPR 1, Description: OPR

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8	2.97	2780.135	2780.135	NO	6.4	50.8
2	13C4-PFBA	216.9 > 171.8	1.71	10889.800	10889.800	YES	5.7	45.4
3	13C5-PFHxA	318.0 > 272.9	3.34	9849.314	9849.314	YES	5.3	42.3
4	13C3-PFHxS	401.9 > 79.9	3.98	3481.444	3481.444	YES	3.7	29.5
5	13C8-PFOA	421.3 > 376	4.26	1559.810	1559.810	YES	3.2	25.3
6	13C4-PFOS	503.0 > 79.9	4.67	65.558	65.558	YES	0.1	0.9
7	13C9-PFNA	472.2 > 426.9	4.60	450.260	450.260	YES	0.7	5.6
8	13C6-PFDA	519.1 > 473.7	4.90	102.743	102.743	YES	0.2	1.6

Name: , Date: , Time: , ID: , Description:

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C3-PFBS	302.0 > 98.8						
2	13C4-PFBA	216.9 > 171.8						
3	13C5-PFHxA	318.0 > 272.9						
4	13C3-PFHxS	401.9 > 79.9						
5	13C8-PFOA	421.3 > 376						
6	13C4-PFOS	503.0 > 79.9						
7	13C9-PFNA	472.2 > 426.9						
8	13C6-PFDA	519.1 > 473.7						

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-IIS_AREA.qld

Last Altered: Monday, October 09, 2017 12:48:56 Pacific Daylight Time

Printed: Monday, October 09, 2017 12:50:51 Pacific Daylight Time

Name: 170928G1_38, Date: 28-Sep-2017, Time: 16:26:35, ID: B7I0125-BS2 OPR 1, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	3626.203	3626.203	NO	8.3	66.3
2	2 13C4-PFBA	216.9 > 171.8	1.75	10462.582	10462.582	YES	5.4	43.6
3	3 13C5-PFHxA	318.0 > 272.9	3.29	9096.498	9096.498	YES	4.9	39.1
4	4 13C3-PFHxS	401.9 > 79.9	3.95	6235.961	6235.961	NO	6.6	52.8
5	5 13C8-PFOA	421.3 > 376	4.23	2611.304	2611.304	YES	5.3	42.4
6	6 13C4-PFOS	503.0 > 79.9	4.65	1209.327	1209.327	YES	2.0	16.4
7	7 13C9-PFNA	472.2 > 426.9	4.58	2183.575	2183.575	YES	3.4	27.3
8	8 13C6-PFDA	519.1 > 473.7	4.88	927.940	927.940	YES	1.9	14.8

Name: 170928G1_39, Date: 28-Sep-2017, Time: 16:38:45, ID: IPA, Description: IPA

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8				NO		
2	2 13C4-PFBA	216.9 > 171.8				NO		
3	3 13C5-PFHxA	318.0 > 272.9				NO		
4	4 13C3-PFHxS	401.9 > 79.9				NO		
5	5 13C8-PFOA	421.3 > 376				NO		
6	6 13C4-PFOS	503.0 > 79.9				NO		
7	7 13C9-PFNA	472.2 > 426.9				NO		
8	8 13C6-PFDA	519.1 > 473.7				NO		

Name: 170928G1_40, Date: 28-Sep-2017, Time: 16:51:16, ID: ST170928G1-10 PFC CS3 17I2627, Description: PFC CS3 17I2627

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	7012.126	7012.126	NO	16.0	128.2
2	2 13C4-PFBA	216.9 > 171.8	1.68	28934.334	28934.334	NO	15.1	120.5
3	3 13C5-PFHxA	318.0 > 272.9	3.31	26058.160	26058.160	NO	14.0	112.0
4	4 13C3-PFHxS	401.9 > 79.9	3.94	14965.147	14965.147	NO	15.8	126.8
5	5 13C8-PFOA	421.3 > 376	4.23	7963.494	7963.494	NO	16.1	129.2
6	6 13C4-PFOS	503.0 > 79.9	4.64	6085.421	6085.421	NO	10.3	82.4
7	7 13C9-PFNA	472.2 > 426.9	4.57	9912.228	9912.228	NO	15.5	123.9
8	8 13C6-PFDA	519.1 > 473.7	4.88	4453.589	4453.589	NO	8.9	71.2

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Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

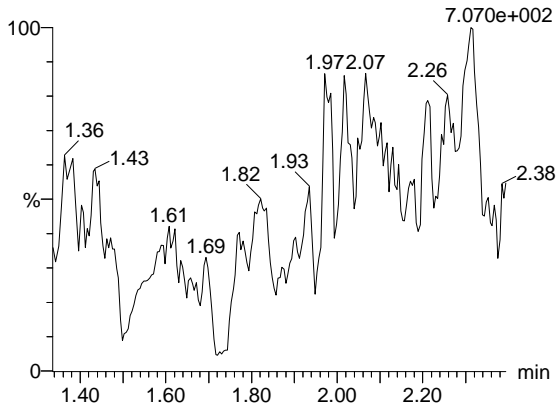
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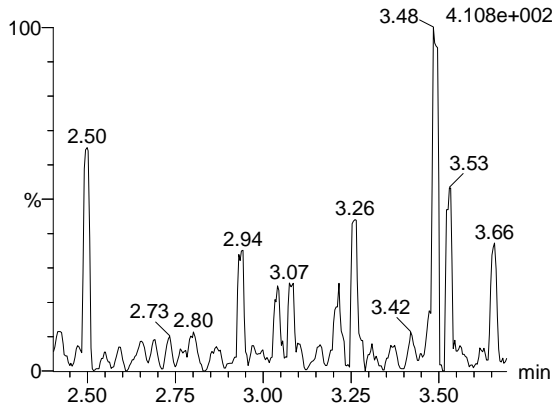
PFBA

170928G1_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 212.9 > 168.9 7.070e+002



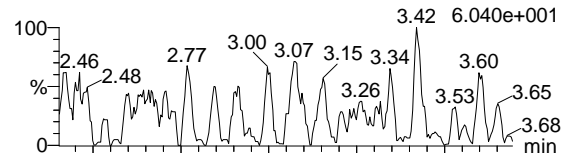
PFPeA

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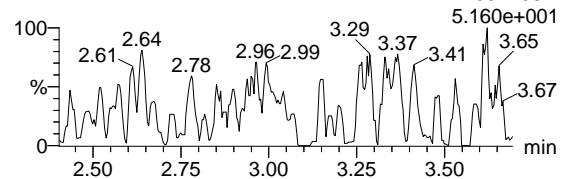


PFBS

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299.0 > 79.7 6.040e+001

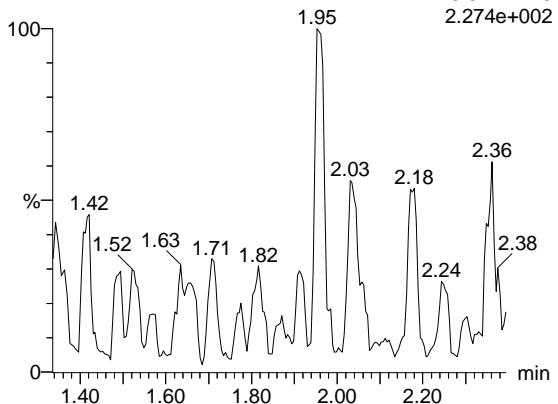


170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299 > 98.7 5.160e+001



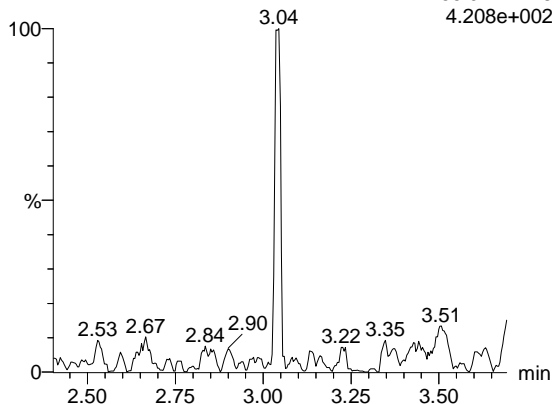
13C3-PFBA

170928G1_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 215.9 > 171.8 2.274e+002



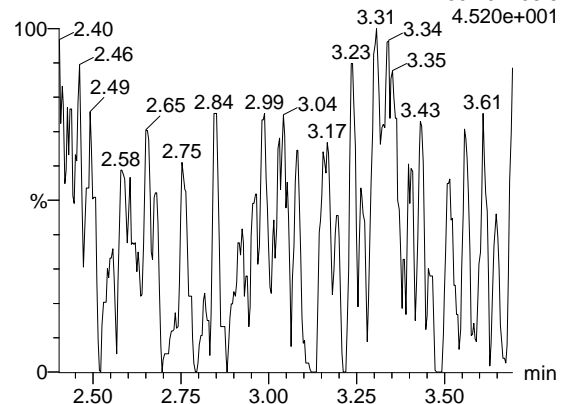
13C3-PFPeA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 266.0 > 221.8 4.208e+002



13C3-PFBS

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 302.0 > 98.8 4.520e+001



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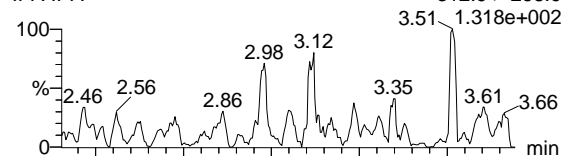
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Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

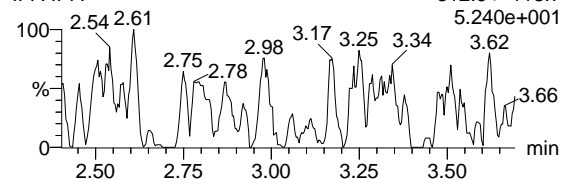
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PFHxA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 312.9 > 268.9

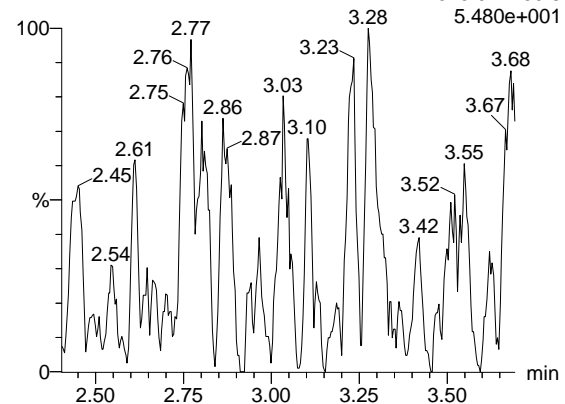


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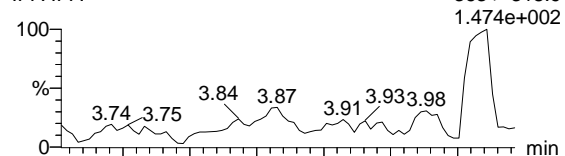
13C2-PFHxA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 315.0 > 269.8

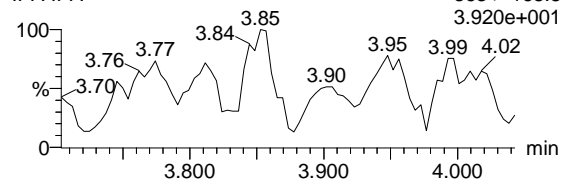


PFHpA

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 363 > 318.9

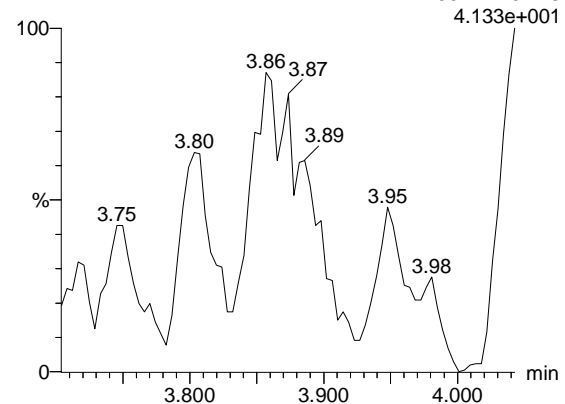


170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 363 > 168.8



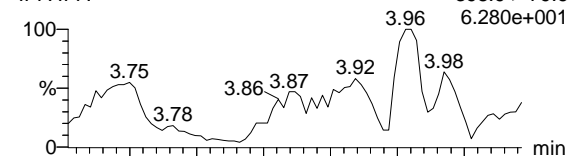
13C4-PFHpA

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 367.2 > 321.8

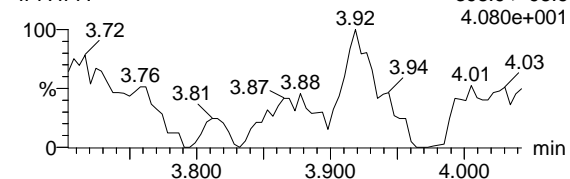


PFHxS

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 398.9 > 79.6

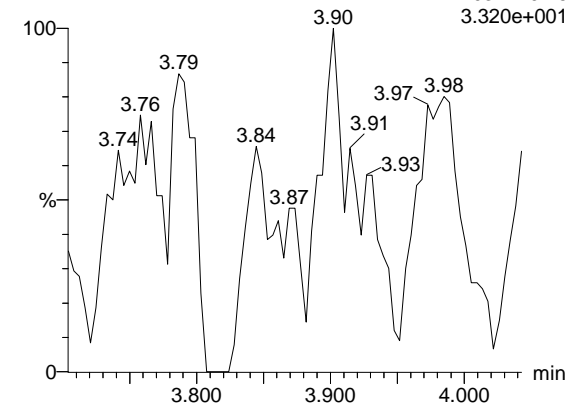


170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 398.9 > 98.6



18O2-PFHxS

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 403 > 102.6



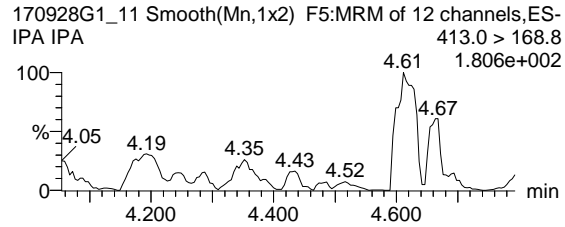
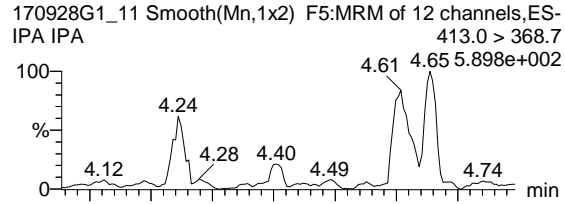
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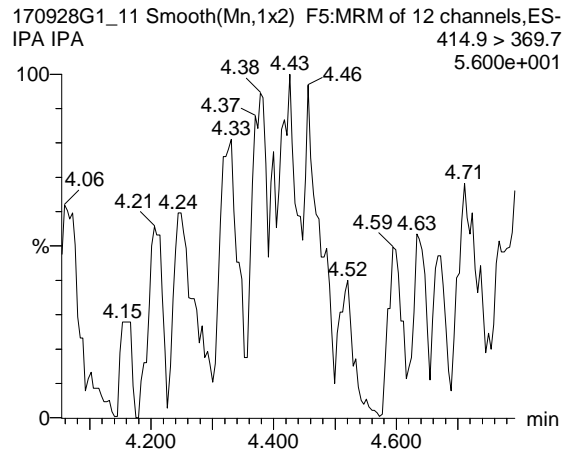
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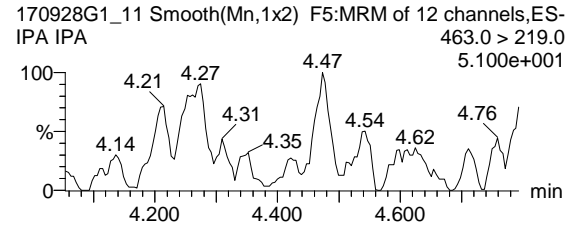
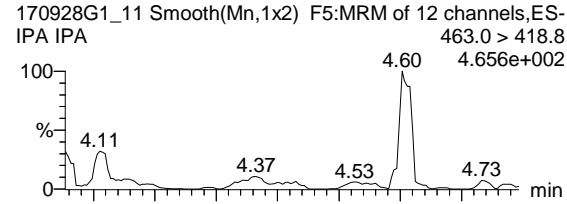
PFOA



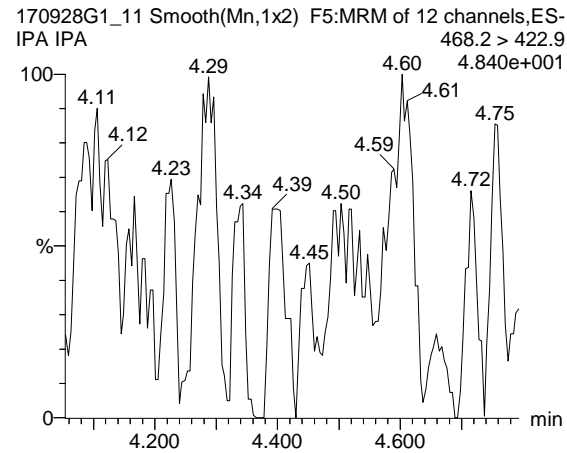
13C2-PFOA



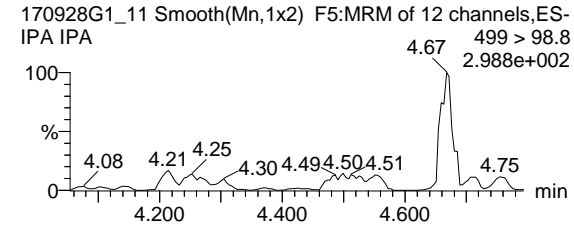
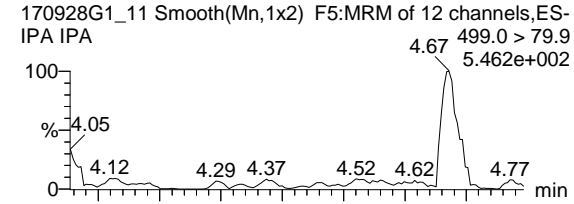
PFNA



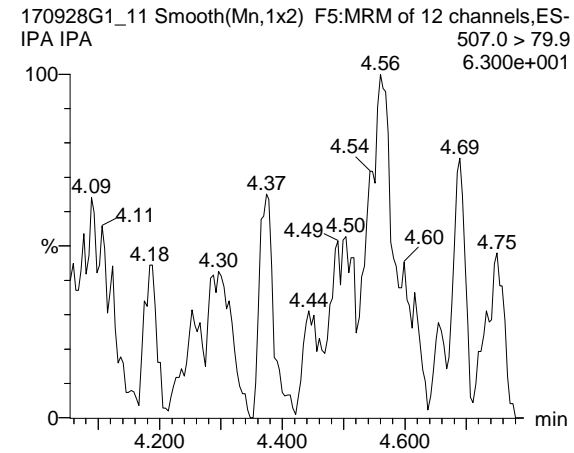
13C5-PFNA



PFOS



13C8-PFOS



Dataset: Untitled

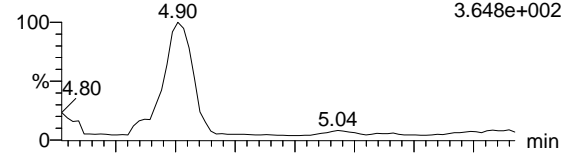
Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

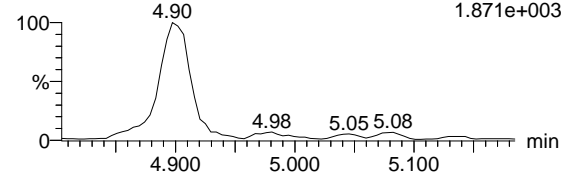
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PFDA

170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 219.0 3.648e+002

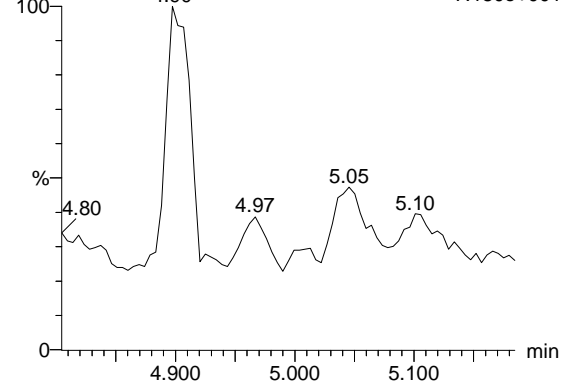


170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 468.7 1.871e+003



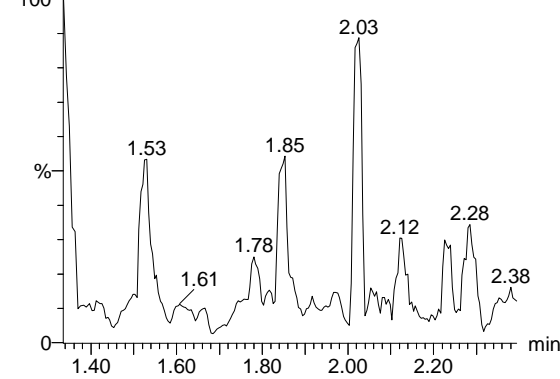
13C2-PFDA

170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 514.8 > 469.7 7.180e+001



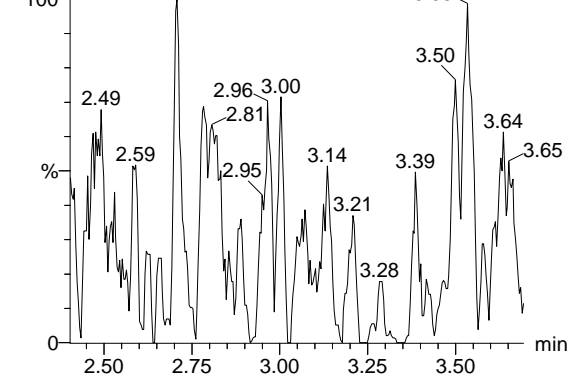
13C4-PFBA

170928G1_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 216.9 > 171.8 1.350e+002



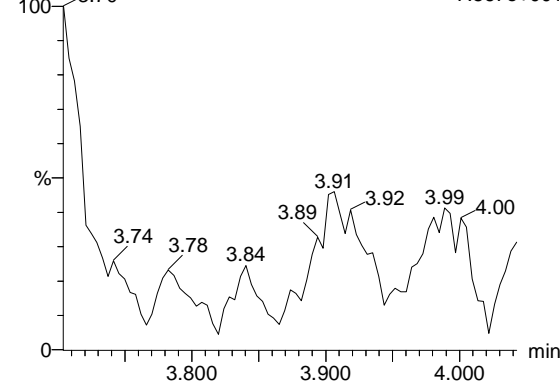
13C5-PFHxA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 318 > 272.9 5.840e+001



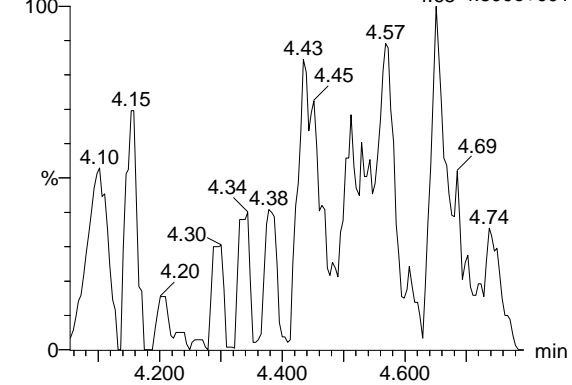
13C3-PFHxS

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 401.9 > 79.9 7.567e+001



13C8-PFOA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 421.3 > 376 4.800e+001



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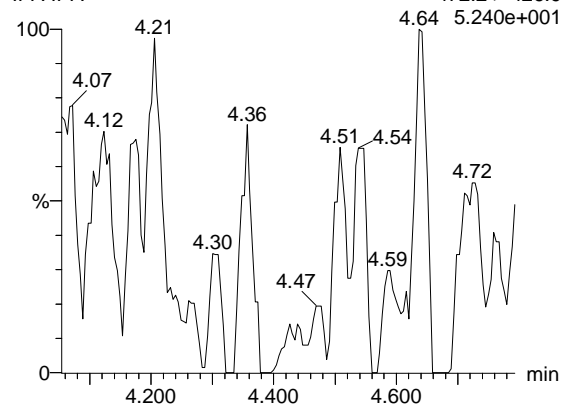
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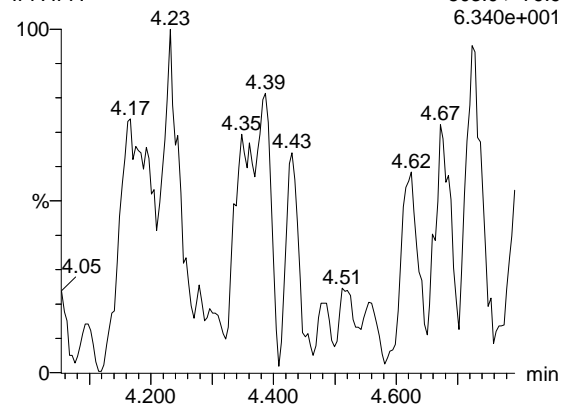
13C9-PFNA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 472.2 > 426.9



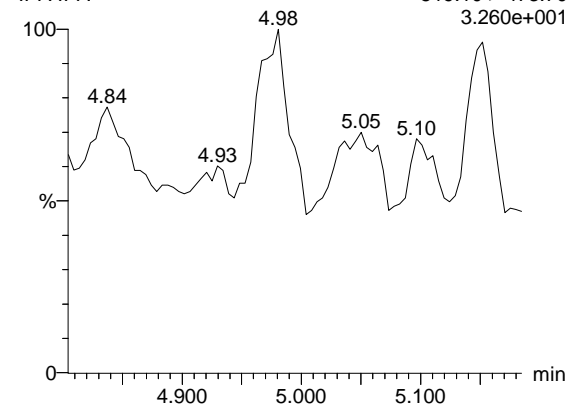
13C4-PFOS

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 503.0 > 79.9



13C6-PFDA

170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 519.10 > 473.70



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-40.qld

Last Altered: Friday, September 29, 2017 08:18:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 08:22:52 Pacific Daylight Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_40, Date: 28-Sep-2017, Time: 16:51:16, ID: ST170928G1-10 PFC CS3 1712627, Description: PFC CS3 1712627

#	Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.69	23227.004	31676.273	9.166	12.2	122.3
2	2 PFPeA	263.0 > 218.8	2.64	12267.778	12500.891	12.267	10.0	100.5
3	3 PFBS	299.0 > 79.7	2.92	9570.022	7012.126	17.060	10.2	102.0
4	4 PFHxA	312.9 > 268.9	3.31	17257.230	9558.268	22.568	11.4	114.2
5	5 PFHpA	363 > 318.9	3.82	20560.494	11479.867	22.388	9.5	95.1
6	6 PFHxS	398.9 > 79.6	3.95	8718.465	6302.227	17.292	9.0	90.4
7	7 PFOA	413.0 > 368.7	4.23	16591.680	22671.842	9.148	9.4	94.5
8	8 PFNA	463.0 > 418.8	4.57	15739.640	8595.491	22.889	8.3	83.3
9	9 PFOS	499.0 > 79.9	4.64	2575.316	6107.769	5.271	10.6	105.7
10	10 PFDA	512.7 > 219.0	4.88	1186.384	6793.800	2.183	10.7	106.7
11	11 13C3-PFBA	215.9 > 171.8	1.68	31676.273	28934.334	13.685	10.0	79.7
12	12 13C3-PFBS	302.0 > 98.8	2.92	7012.126	26058.160	3.364	14.3	114.1
13	13 13C3-PFPeA	266.0 > 221.8	2.64	12500.891	26058.160	5.997	12.0	96.3
14	14 13C2-PFHxA	315.0 > 269.8	3.31	9558.268	26058.160	4.585	12.1	96.8
15	15 13C4-PFHpA	367.2 > 321.8	3.82	11479.867	26058.160	5.507	12.3	98.6
16	16 18O2-PFHxS	403 > 102.6	3.94	6302.227	14965.147	5.264	12.1	96.5
17	17 13C2-PFOA	414.9 > 369.7	4.23	22671.842	7963.494	35.587	9.6	76.6
18	18 13C5-PFNA	468.2 > 422.9	4.57	8595.491	9912.228	10.840	12.2	97.9
19	19 13C2-PFDA	514.8 > 469.7	4.88	6793.800	4453.589	19.068	9.9	78.9
20	20 13C8-PFOS	507.0 > 79.9	4.64	6107.769	6085.421	12.546	13.3	106.4
21	21 13C4-PFBA	216.9 > 171.8	1.68	28934.334	28934.334	12.500	12.5	100.0
22	22 13C5-PFHxA	318 > 272.9	3.31	26058.160	26058.160	12.500	12.5	100.0
23	23 13C3-PFHxS	401.9 > 79.9	3.94	14965.147	14965.147	12.500	12.5	100.0
24	24 13C8-PFOA	421.3 > 376	4.23	7963.494	7963.494	12.500	12.5	100.0
25	25 13C9-PFNA	472.2 > 426.9	4.57	9912.228	9912.228	12.500	12.5	100.0
26	26 13C4-PFOS	503.0 > 79.9	4.64	6085.421	6085.421	12.500	12.5	100.0
27	27 13C6-PFDA	519.10 > 473.70	4.88	4453.589	4453.589	12.500	12.5	100.0
28	28 Total PFHxS	398.9 > 79.6		8718.465	6302.227	17.292	9.0	
29	29 Total PFOA	413.0 > 368.7		16599.835	22671.842	9.148	9.4	
30	30 Total PFOS	499.0 > 79.9		2575.316	6107.769	5.271	10.6	

70-130

50-150

YDA 9/29/17

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Friday, September 29, 2017 08:29:51 Pacific Daylight Time

Printed: Friday, September 29, 2017 08:30:21 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928G1_1	IPA	28-Sep-17	08:24:44
2	170928G1_2	ST170928G1-1 PFC CS-2 17I2622	28-Sep-17	08:37:06
3	170928G1_3	ST170928G1-2 PFC CS-1 17I2623	28-Sep-17	08:49:33
4	170928G1_4	ST170928G1-3 PFC CS0 17I2624	28-Sep-17	09:02:05
5	170928G1_5	ST170928G1-4 PFC CS1 17I2625	28-Sep-17	09:14:38
6	170928G1_6	ST170928G1-5 PFC CS2 17I2626	28-Sep-17	09:27:12
7	170928G1_7	ST170928G1-6 PFC CS3 17I2627	28-Sep-17	09:39:45
8	170928G1_8	ST170928G1-7 PFC CS4 17I2628	28-Sep-17	09:52:18
9	170928G1_9	ST170928G1-8 PFC CS5 17I2629	28-Sep-17	10:04:52
10	170928G1_10	ST170928G1-9 PFC CS6 17I2630	28-Sep-17	10:17:33
11	170928G1_11	IPA	28-Sep-17	10:30:00
12	170928G1_12	ICV170928G1-1 PFC ICV 15I2621	28-Sep-17	10:42:35
13	170928G1_13	IPA	28-Sep-17	10:55:07
14	170928G1_14	B7I0026-BLK1 Method Blank 0.125	28-Sep-17	11:07:44
15	170928G1_15	B7I0026-BS2 OPR 0.125	28-Sep-17	11:20:11
16	170928G1_16	B7I0026-BS3 OPR 0.125	28-Sep-17	11:32:44
17	170928G1_17	B7I0026-BS4 OPR 0.125	28-Sep-17	11:45:19
18	170928G1_18	B7I0026-BS5 OPR 0.125	28-Sep-17	11:57:55
19	170928G1_19	IPA	28-Sep-17	12:18:28
20	170928G1_20	B7I0125-BLK1 Method Blank 1	28-Sep-17	12:30:40
21	170928G1_21	B7I0125-BS2 OPR 1	28-Sep-17	12:43:09
22	170928G1_22	B7I0125-BS3 OPR 1	28-Sep-17	12:55:43
23	170928G1_23	B7I0125-BS4 OPR 1	28-Sep-17	13:08:16
24	170928G1_24	B7I0125-BS5 OPR 1	28-Sep-17	13:20:49
25	170928G1_25	IPA	28-Sep-17	13:33:23
26	170928G1_26	B7I0091-BS1 OPR 0.25	28-Sep-17	13:45:56
27	170928G1_27	IPA	28-Sep-17	13:58:32
28	170928G1_28	B7I0091-BLK1 Method Blank 0.25	28-Sep-17	14:11:05
29	170928G1_29	1701167-05RE1 919 0.11385	28-Sep-17	14:23:37
30	170928G1_30	IPA	28-Sep-17	14:36:11
31	170928G1_31	1701279-05 MH-118.5T-20170918 0.125	28-Sep-17	14:48:43

Dataset: Untitled

Last Altered: Friday, September 29, 2017 08:29:51 Pacific Daylight Time

Printed: Friday, September 29, 2017 08:30:21 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170928G1_32	IPA	28-Sep-17	15:01:16
33	170928G1_33	1701279-04@5X MH-118.5N-20170918 0.125	28-Sep-17	15:13:52
34	170928G1_34	IPA	28-Sep-17	15:29:20
35	170928G1_35	B7I0125-BS2 OPR 1	28-Sep-17	15:41:32
36	170928G1_36	B7I0125-BS4 OPR 1	28-Sep-17	15:54:05
37	170928G1_37	B7I0125-BS2 OPR 1		
38	170928G1_38	B7I0125-BS2 OPR 1	28-Sep-17	16:26:35
39	170928G1_39	IPA	28-Sep-17	16:38:45
40	170928G1_40	ST170928G1-10 PFC CS3 17I2627	28-Sep-17	16:51:16
41	170928G1_41	IPA	28-Sep-17	17:03:48

LC Calibration Standards Review Checklist

Q1

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
<u>ST170928G1-10</u>	L M H	<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u> ↓
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Full Mass Cal. Date: 4/5/17

Run Log Present:

of Samples per Sequence Checked:

Reviewed By: DM 4/29/17
Initials/Date

Comments:

L14 - 2trans

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-40.qld

Last Altered: Friday, September 29, 2017 08:18:38 Pacific Daylight Time

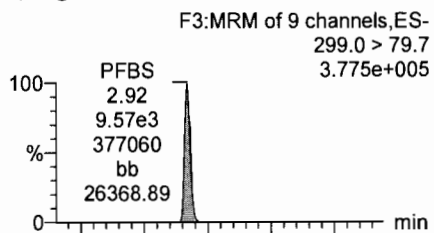
Printed: Friday, September 29, 2017 08:22:04 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\FAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

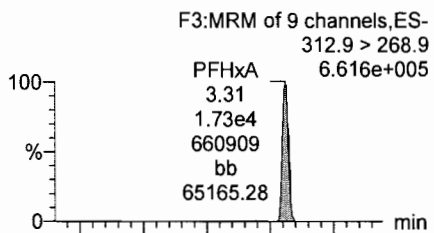
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_40, Date: 28-Sep-2017, Time: 16:51:16, ID: ST170928G1-10 PFC CS3 17I2627, Description: PFC CS3 17I2627

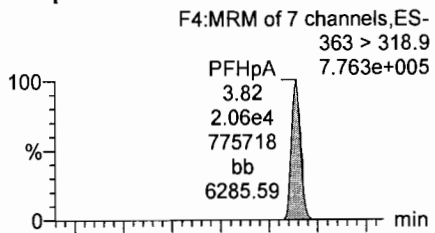
PFBS



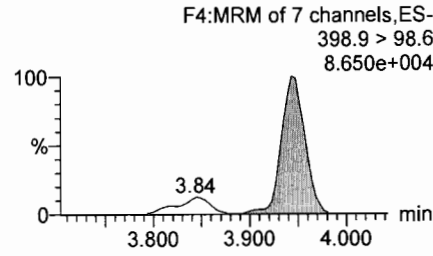
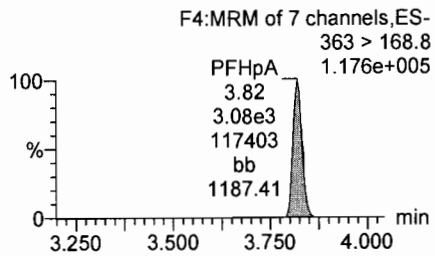
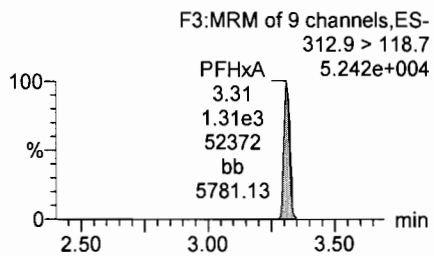
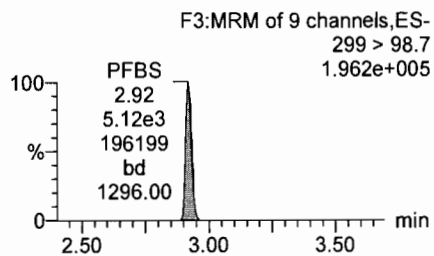
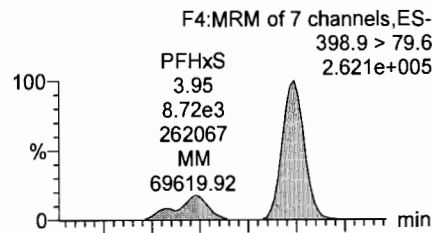
PFHxA



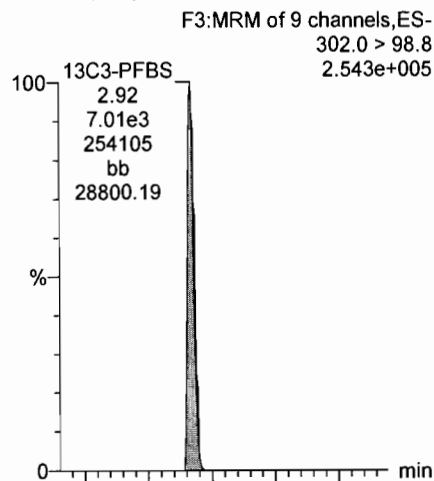
PFHpA



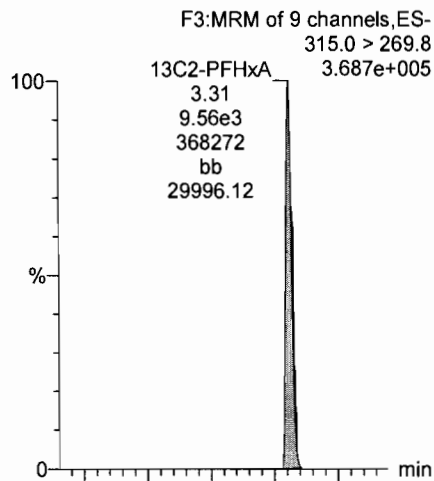
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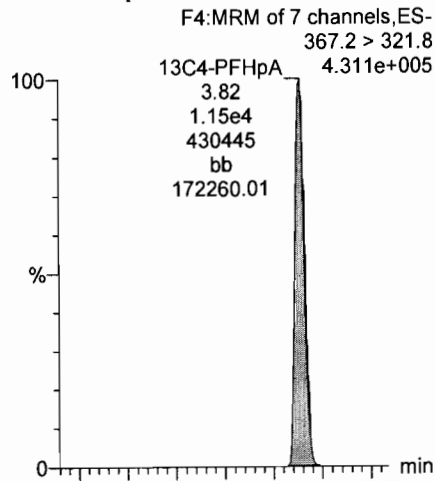
13C3-PFBS



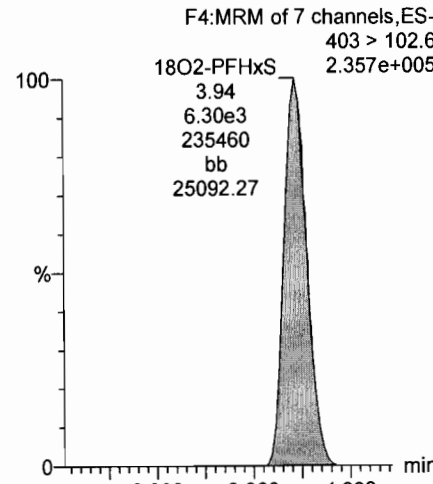
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



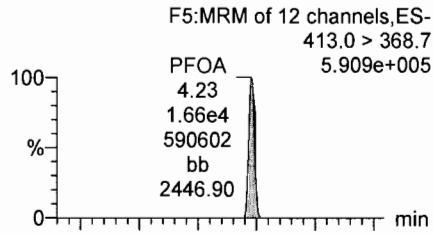
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Last Altered: Friday, September 29, 2017 08:18:38 Pacific Daylight Time

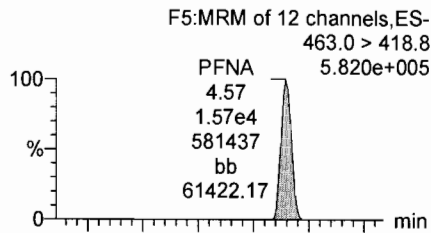
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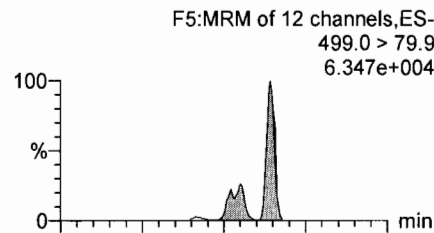
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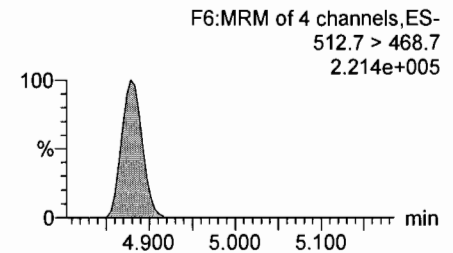
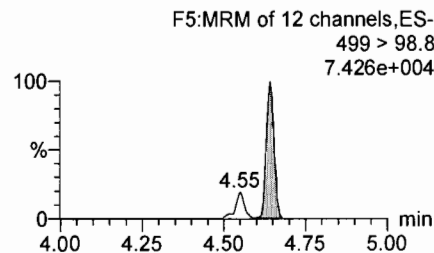
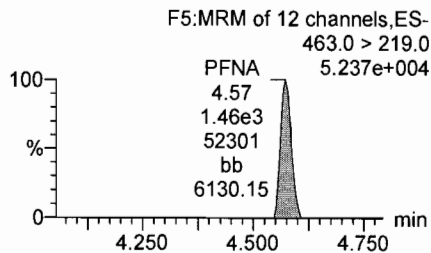
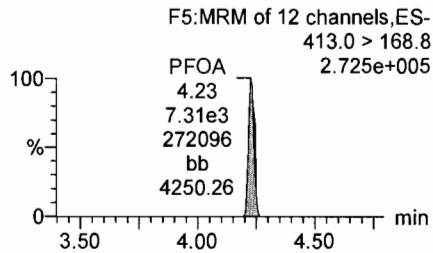
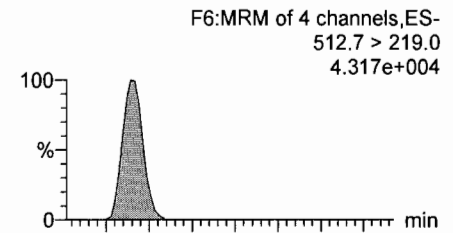
PFNA



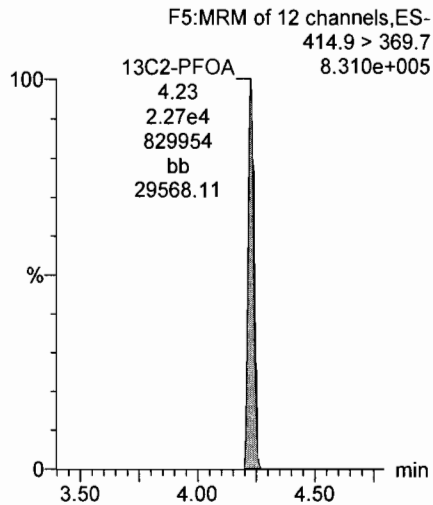
Total PFOS



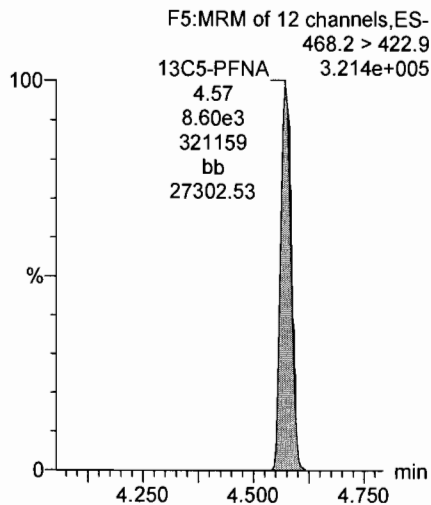
PFDA



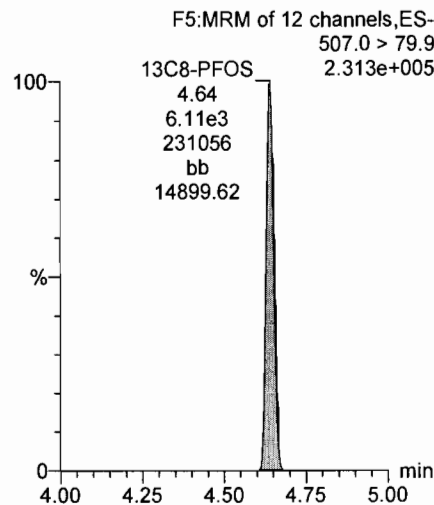
13C2-PFOA



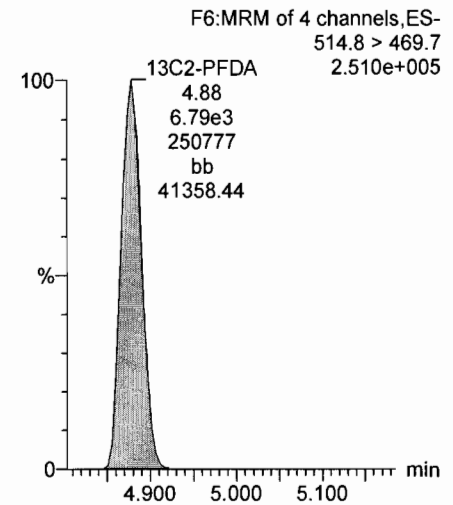
13C5-PFNA



13C8-PFOS



13C2-PFDA



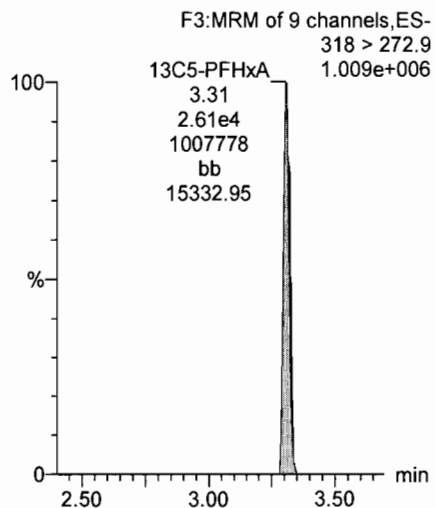
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Last Altered: Friday, September 29, 2017 08:18:38 Pacific Daylight Time

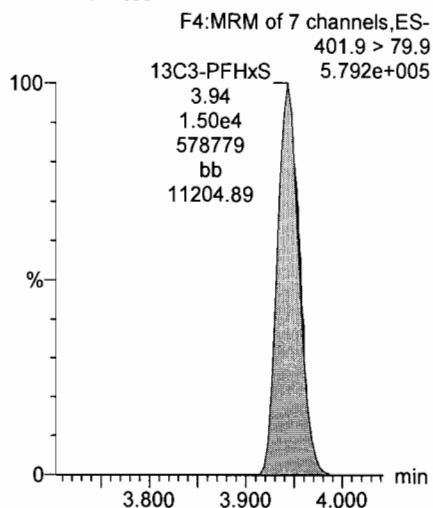
Printed: Friday, September 29, 2017 08:22:04 Pacific Daylight Time

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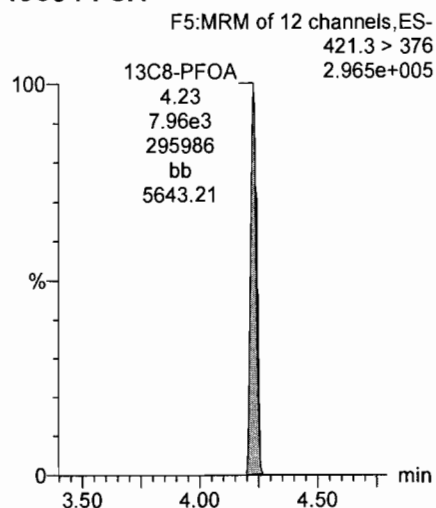
13C5-PFHxA



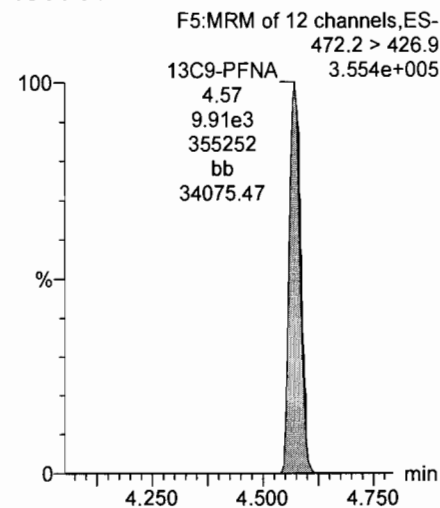
13C3-PFHxS



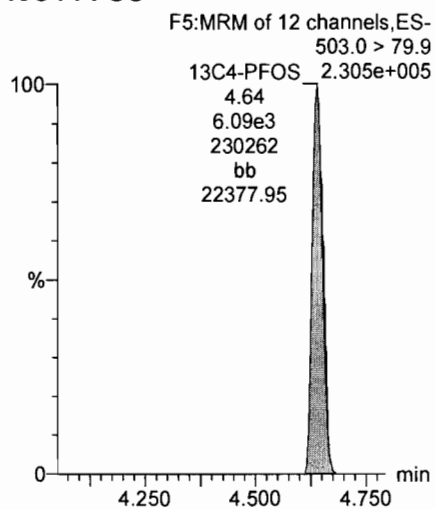
13C8-PFOA



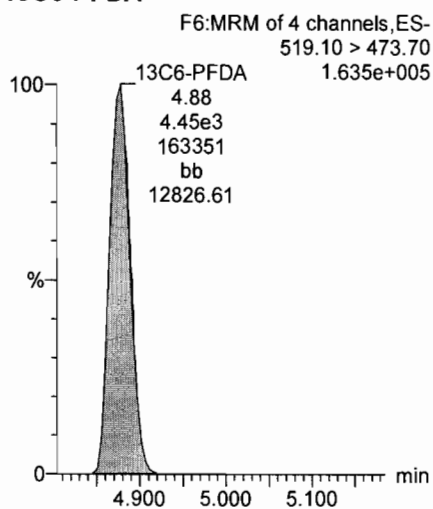
13C9-PFNA



13C4-PFOS



13C6-PFDA



INITIAL CALIBRATION (ICAL)
INCLUDING ASSOCIATED
INITIAL CALIBRATION VERIFICATION (ICV) AND INSTRUMENT BLANK (IB)

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:10:57 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:10:06

DM
9/26/17
JHA, 9/26/2017

Compound name: PFBA

Coefficient of Determination: R² = 0.999423

Calibration curve: -0.000254075 * x² + 1.17037 * x + -0.00273304

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	1.92	446.522	17613.805	0.317	0.3	9.2	NO	0.999	NO	MM
2	170926M1_7	Standard	0.500	1.88	825.798	18773.246	0.550	0.5	-5.6	NO	0.999	NO	bb
3	170926M1_8	Standard	1.000	1.89	1755.629	18408.828	1.192	1.0	2.1	NO	0.999	NO	bb
4	170926M1_9	Standard	2.000	1.88	3399.516	18209.129	2.334	2.0	-0.1	NO	0.999	NO	bb
5	170926M1_10	Standard	5.000	1.88	8508.786	19320.969	5.505	4.7	-5.8	NO	0.999	NO	MM
6	170926M1_11	Standard	10.000	1.88	17337.701	19283.436	11.239	9.6	-3.7	NO	0.999	NO	MM
7	170926M1_12	Standard	50.000	1.87	88478.898	18174.063	60.855	52.6	5.2	NO	0.999	NO	MM
8	170926M1_13	Standard	100.000	1.88	169634.828	18974.527	111.752	97.6	-2.4	NO	0.999	NO	MM
9	170926M1_14	Standard	250.000	1.88	467043.563	21058.029	277.236	250.5	0.2	NO	0.999	NO	MM

Compound name: PFPeA

Correlation coefficient: r = 0.998532, r² = 0.997067

Calibration curve: 1.05798 * x + 0.0713744

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	2.97	951.400	35981.965	0.331	0.2	-2.0	NO	0.997	NO	bb
2	170926M1_7	Standard	0.500	2.98	1621.787	38140.273	0.532	0.4	-13.0	NO	0.997	NO	bb
3	170926M1_8	Standard	1.000	2.98	3641.451	38553.766	1.181	1.0	4.8	NO	0.997	NO	bb
4	170926M1_9	Standard	2.000	2.98	7015.247	36205.199	2.422	2.2	11.1	NO	0.997	NO	bb
5	170926M1_10	Standard	5.000	2.97	15355.139	38510.066	4.984	4.6	-7.1	NO	0.997	NO	bb
6	170926M1_11	Standard	10.000	2.98	33169.973	39419.648	10.518	9.9	-1.3	NO	0.997	NO	bb
7	170926M1_12	Standard	50.000	2.97	176114.031	36742.273	59.915	56.6	13.1	NO	0.997	NO	bb
8	170926M1_13	Standard	100.000	2.97	316189.938	39387.836	100.345	94.8	-5.2	NO	0.997	NO	bb
9	170926M1_14	Standard	250.000	2.98	785173.938	37255.500	263.442	248.9	-0.4	NO	0.997	NO	bb

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:10:57 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.998931$, $r^2 = 0.997863$

Calibration curve: $1.04858 * x + -0.0324365$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.15	166.861	8097.803	0.258	0.3	10.6	NO	0.998	NO	bb
2	170926M1_7	Standard	0.500	3.17	352.446	9640.106	0.457	0.5	-6.6	NO	0.998	NO	bb
3	170926M1_8	Standard	1.000	3.17	740.502	9446.969	0.980	1.0	-3.5	NO	0.998	NO	bb
4	170926M1_9	Standard	2.000	3.16	1368.680	8694.710	1.968	1.9	-4.6	NO	0.998	NO	bb
5	170926M1_10	Standard	5.000	3.16	3745.490	8763.979	5.342	5.1	2.5	NO	0.998	NO	MM
6	170926M1_11	Standard	10.000	3.15	7056.972	8989.179	9.813	9.4	-6.1	NO	0.998	NO	MM
7	170926M1_12	Standard	50.000	3.15	44617.570	10212.084	54.614	52.1	4.2	NO	0.998	NO	MM
8	170926M1_13	Standard	100.000	3.15	78199.273	8732.539	111.937	106.8	6.8	NO	0.998	NO	MM
9	170926M1_14	Standard	250.000	3.16	164840.359	8130.431	253.431	241.7	-3.3	NO	0.998	NO	MM

Compound name: PFHxA

Correlation coefficient: $r = 0.999092$, $r^2 = 0.998186$

Calibration curve: $1.53706 * x + 0.162682$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.37	1789.725	18439.123	0.485	0.2	-16.0	NO	0.998	NO	MM
2	170926M1_7	Standard	0.500	3.37	3122.690	17749.219	0.880	0.5	-6.7	NO	0.998	NO	MM
3	170926M1_8	Standard	1.000	3.38	6994.330	20067.127	1.743	1.0	2.8	NO	0.998	NO	bb
4	170926M1_9	Standard	2.000	3.37	12891.924	17824.650	3.616	2.2	12.3	NO	0.998	NO	MM
5	170926M1_10	Standard	5.000	3.37	27886.596	18244.521	7.642	4.9	-2.7	NO	0.998	NO	MM
6	170926M1_11	Standard	10.000	3.37	59121.434	18411.217	16.056	10.3	3.4	NO	0.998	NO	MM
7	170926M1_12	Standard	50.000	3.37	293855.625	17227.830	85.285	55.4	10.8	NO	0.998	NO	MM
8	170926M1_13	Standard	100.000	3.37	536308.875	17893.344	149.863	97.4	-2.6	NO	0.998	NO	MM
9	170926M1_14	Standard	250.000	3.38	1322944.250	17428.289	379.539	246.8	-1.3	NO	0.998	NO	MM

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Compound name: PFHpA

Correlation coefficient: $r = 0.999371$, $r^2 = 0.998742$

Calibration curve: $1.02069 * x + 0.0325041$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.63	1943.525	85124.656	0.285	0.2	-0.9	NO	0.999	NO	MM
2	170926M1_7	Standard	0.500	3.63	3208.322	75745.172	0.529	0.5	-2.6	NO	0.999	NO	MM
3	170926M1_8	Standard	1.000	3.63	6652.268	83440.781	0.997	0.9	-5.5	NO	0.999	NO	bb
4	170926M1_9	Standard	2.000	3.63	13461.582	73560.961	2.287	2.2	10.5	NO	0.999	NO	bb
5	170926M1_10	Standard	5.000	3.63	28926.965	77536.695	4.663	4.5	-9.3	NO	0.999	NO	MM
6	170926M1_11	Standard	10.000	3.63	64791.879	78441.781	10.325	10.1	0.8	NO	0.999	NO	MM
7	170926M1_12	Standard	50.000	3.63	332237.438	74803.906	55.518	54.4	8.7	NO	0.999	NO	MM
8	170926M1_13	Standard	100.000	3.63	605120.438	74141.344	102.021	99.9	-0.1	NO	0.999	NO	MM
9	170926M1_14	Standard	250.000	3.63	1909013.250	95039.898	251.081	246.0	-1.6	NO	0.999	NO	MM

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.998525$

Calibration curve: $6.01008e-006 * x^2 + 2.3448 * x + 0.0456733$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.71	268.341	4583.046	0.732	0.3	17.1	NO	0.999	NO	bb
2	170926M1_7	Standard	0.500	3.71	380.537	5124.452	0.928	0.4	-24.7	NO	0.999	NO	MM
3	170926M1_8	Standard	1.000	3.70	914.029	4775.080	2.393	1.0	0.1	NO	0.999	NO	bb
4	170926M1_9	Standard	2.000	3.70	1899.311	4586.509	5.176	2.2	9.4	NO	0.999	NO	bb
5	170926M1_10	Standard	5.000	3.70	4176.582	4507.254	11.583	4.9	-1.6	NO	0.999	NO	MM
6	170926M1_11	Standard	10.000	3.70	8577.047	4747.102	22.585	9.6	-3.9	NO	0.999	NO	MM
7	170926M1_12	Standard	50.000	3.70	46026.730	4547.346	126.521	53.9	7.9	NO	0.999	NO	MM
8	170926M1_13	Standard	100.000	3.70	84357.867	4715.147	223.635	95.3	-4.7	NO	0.999	NO	MM
9	170926M1_14	Standard	250.000	3.70	241915.797	5132.338	589.195	251.1	0.4	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.997058$

Calibration curve: $-0.00288509 * x^2 + 1.14646 * x + 0.316166$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.82	206.878	8015.970	0.323	0.0	-97.8	NO	0.997	NO	bbX
2	170926M1_7	Standard	0.500	3.84	339.994	8675.122	0.490	0.2	-69.7	NO	0.997	NO	bbX
3	170926M1_8	Standard	1.000	3.83	953.807	8531.048	1.398	0.9	-5.5	NO	0.997	NO	bb
4	170926M1_9	Standard	2.000	3.83	1827.693	7337.573	3.114	2.5	22.8	NO	0.997	NO	bb
5	170926M1_10	Standard	5.000	3.82	3553.160	8707.056	5.101	4.2	-15.6	NO	0.997	NO	MM
6	170926M1_11	Standard	10.000	3.83	7588.144	8593.252	11.038	9.6	-4.2	NO	0.997	NO	MM
7	170926M1_12	Standard	50.000	3.82	39782.629	9559.567	52.019	51.9	3.7	NO	0.997	NO	bb
8	170926M1_13	Standard	100.000	3.83	65340.051	9564.410	85.395	98.7	-1.3	NO	0.997	NO	MM
9	170926M1_14	Standard	250.000	3.82	171721.484	14878.135	144.273			NO	0.997	NO	MMXI

Compound name: L-PFOA

Correlation coefficient: $r = 0.999252$, $r^2 = 0.998504$

Calibration curve: $1.05269 * x + 0.304023$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.84	2492.620	57472.527	0.542	0.2	-9.5	NO	0.999	NO	MM
2	170926M1_7	Standard	0.500	3.84	3539.854	55558.078	0.796	0.5	-6.4	NO	0.999	NO	MM
3	170926M1_8	Standard	1.000	3.84	6211.707	53550.098	1.450	1.1	8.9	NO	0.999	NO	bb
4	170926M1_9	Standard	2.000	3.84	11771.767	56503.746	2.604	2.2	9.3	NO	0.999	NO	bb
5	170926M1_10	Standard	5.000	3.84	23081.049	54364.102	5.307	4.8	-4.9	NO	0.999	NO	bb
6	170926M1_11	Standard	10.000	3.84	42978.746	52370.980	10.258	9.5	-5.4	NO	0.999	NO	bb
7	170926M1_12	Standard	50.000	3.83	240418.938	52551.176	57.187	54.0	8.1	NO	0.999	NO	bb
8	170926M1_13	Standard	100.000	3.84	430413.719	49672.285	108.313	102.6	2.6	NO	0.999	NO	bb
9	170926M1_14	Standard	250.000	3.84	1341607.375	65229.695	257.093	243.9	-2.4	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFHpS

Coefficient of Determination: R² = 0.999390

Calibration curve: $-0.000256301 * x^2 + 0.230781 * x + -0.0174965$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	3.90	216.432	57472.527	0.047	0.3	11.9	NO	0.999	NO	bb
2	2 170926M1_7	Standard	0.500	3.90	371.297	55558.078	0.084	0.4	-12.4	NO	0.999	NO	bb
3	3 170926M1_8	Standard	1.000	3.90	864.579	53550.098	0.202	1.0	-4.9	NO	0.999	NO	bb
4	4 170926M1_9	Standard	2.000	3.90	1715.171	56503.746	0.379	1.7	-13.8	NO	0.999	NO	bb
5	5 170926M1_10	Standard	5.000	3.90	4481.211	54364.102	1.030	4.6	-8.7	NO	0.999	NO	bb
6	6 170926M1_11	Standard	10.000	3.90	9046.645	52370.980	2.159	9.5	-4.7	NO	0.999	NO	bb
7	7 170926M1_12	Standard	50.000	3.90	46042.004	52551.176	10.952	50.3	0.7	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	3.90	82935.227	49672.285	20.871	102.1	2.1	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	3.90	216575.422	65229.695	41.502	248.5	-0.6	NO	0.999	NO	MM

Compound name: PFNA

Correlation coefficient: r = 0.996989, r² = 0.993986

Calibration curve: $1.09665 * x + 0.146809$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.03	1491.298	49863.914	0.374	0.2	-17.2	NO	0.994	NO	MM
2	2 170926M1_7	Standard	0.500	4.03	2714.410	55938.543	0.607	0.4	-16.2	NO	0.994	NO	MM
3	3 170926M1_8	Standard	1.000	4.03	5296.324	52005.914	1.273	1.0	2.7	NO	0.994	NO	bb
4	4 170926M1_9	Standard	2.000	4.03	11233.622	50512.246	2.780	2.4	20.1	NO	0.994	NO	bb
5	5 170926M1_10	Standard	5.000	4.03	24990.338	54176.277	5.766	5.1	2.5	NO	0.994	NO	MM
6	6 170926M1_11	Standard	10.000	4.03	48399.004	57047.996	10.605	9.5	-4.6	NO	0.994	NO	MM
7	7 170926M1_12	Standard	50.000	4.03	233633.266	49287.465	59.253	53.9	7.8	NO	0.994	NO	MM
8	8 170926M1_13	Standard	100.000	4.03	442281.688	45425.496	121.705	110.8	10.8	NO	0.994	NO	MM
9	9 170926M1_14	Standard	250.000	4.03	1267182.750	61351.066	258.183	235.3	-5.9	NO	0.994	NO	MM

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Compound name: PFOSA

Correlation coefficient: $r = 0.997992$, $r^2 = 0.995989$

Calibration curve: $1.11087 * x + -0.00238488$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.03	70.186	7347.348	0.119	0.1	-56.1	NO	0.996	NO	MMX
2	2 170926M1_7	Standard	0.500	4.04	294.767	7905.017	0.466	0.4	-15.7	NO	0.996	NO	bb
3	3 170926M1_8	Standard	1.000	4.04	794.978	7178.021	1.384	1.2	24.8	NO	0.996	NO	bb
4	4 170926M1_9	Standard	2.000	4.04	1375.160	7702.087	2.232	2.0	0.6	NO	0.996	NO	bb
5	5 170926M1_10	Standard	5.000	4.04	3109.106	7920.415	4.907	4.4	-11.6	NO	0.996	NO	MM
6	6 170926M1_11	Standard	10.000	4.03	6839.106	7736.169	11.051	9.9	-0.5	NO	0.996	NO	bb
7	7 170926M1_12	Standard	50.000	4.03	34207.617	7009.465	61.003	54.9	9.8	NO	0.996	NO	MM
8	8 170926M1_13	Standard	100.000	4.03	59035.305	7336.622	100.583	90.5	-9.5	NO	0.996	NO	MM
9	9 170926M1_14	Standard	250.000	4.04	167004.906	7369.899	283.255	255.0	2.0	NO	0.996	NO	MM

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.993324$

Calibration curve: $0.000198828 * x^2 + 1.05686 * x + 0.0813851$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.09	308.570	11549.142	0.334	0.2	-4.4	NO	0.993	NO	MM
2	2 170926M1_7	Standard	0.500	4.08	504.154	10670.576	0.591	0.5	-3.6	NO	0.993	NO	MM
3	3 170926M1_8	Standard	1.000	4.09	1200.406	11627.481	1.290	1.1	14.4	NO	0.993	NO	MM
4	4 170926M1_9	Standard	2.000	4.09	2209.698	12186.089	2.267	2.1	3.3	NO	0.993	NO	MM
5	5 170926M1_10	Standard	5.000	4.09	5243.003	11408.685	5.745	5.4	7.1	NO	0.993	NO	MM
6	6 170926M1_11	Standard	10.000	4.09	10691.173	11386.074	11.737	11.0	10.1	NO	0.993	NO	MM
7	7 170926M1_12	Standard	50.000	4.08	50818.047	10339.790	61.435	57.4	14.9	NO	0.993	NO	MM
8	8 170926M1_13	Standard	100.000	4.09	88930.313	11771.329	94.435	87.8	-12.2	NO	0.993	NO	MM
9	9 170926M1_14	Standard	250.000	4.09	267783.313	11937.639	280.398	253.2	1.3	NO	0.993	NO	MM

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Compound name: PFDA

Correlation coefficient: $r = 0.999281$, $r^2 = 0.998563$

Calibration curve: $1.46225 * x + 0.207419$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.22	1809.064	40676.949	0.556	0.2	-4.7	NO	0.999	NO	MM
2	2 170926M1_7	Standard	0.500	4.21	2702.323	43655.695	0.774	0.4	-22.5	NO	0.999	NO	bb
3	3 170926M1_8	Standard	1.000	4.21	6198.883	40823.016	1.898	1.2	15.6	NO	0.999	NO	MM
4	4 170926M1_9	Standard	2.000	4.22	11526.052	40806.695	3.531	2.3	13.6	NO	0.999	NO	MM
5	5 170926M1_10	Standard	5.000	4.21	27126.686	43516.934	7.792	5.2	3.7	NO	0.999	NO	MM
6	6 170926M1_11	Standard	10.000	4.21	51965.637	46191.582	14.063	9.5	-5.2	NO	0.999	NO	MM
7	7 170926M1_12	Standard	50.000	4.21	245764.266	40428.777	75.987	51.8	3.6	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	4.21	498734.031	45186.660	137.965	94.2	-5.8	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	4.21	1408037.875	47361.582	371.619	254.0	1.6	NO	0.999	NO	MM

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.998406$

Calibration curve: $-0.00656321 * x^2 + 1.68851 * x + 0.00415304$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.20	315.468	9724.055	0.406	0.2	-4.8	NO	0.998	NO	MM
2	2 170926M1_7	Standard	0.500	4.20	544.104	6569.169	1.035	0.6	22.4	NO	0.998	NO	bb
3	3 170926M1_8	Standard	1.000	4.20	752.761	6167.581	1.526	0.9	-9.6	NO	0.998	NO	bb
4	4 170926M1_9	Standard	2.000	4.21	1827.951	6623.573	3.450	2.1	2.9	NO	0.998	NO	MM
5	5 170926M1_10	Standard	5.000	4.20	3974.785	6467.106	7.683	4.6	-7.4	NO	0.998	NO	bb
6	6 170926M1_11	Standard	10.000	4.20	8855.378	7191.006	15.393	9.5	-5.4	NO	0.998	NO	MM
7	7 170926M1_12	Standard	50.000	4.20	41330.645	7331.251	70.470	52.4	4.8	NO	0.998	NO	MM
8	8 170926M1_13	Standard	100.000	4.20	64133.211	7850.913	102.111	97.2	-2.8	NO	0.998	NO	MM
9	9 170926M1_14	Standard	250.000	4.20	174323.828	12506.111	174.239			NO	0.998	NO	MMXI

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Compound name: N-MeFOSAA

Coefficient of Determination: R² = 0.995836

Calibration curve: -0.0112437 * x² + 22.9744 * x + -0.911341

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.25	374.945	12196.284	4.996	0.3	2.9	NO	0.996	NO	bb
2	2 170926M1_7	Standard	0.500	4.24	863.038	12392.990	11.316	0.5	6.5	NO	0.996	NO	bb
3	3 170926M1_8	Standard	1.000	4.24	1455.833	11913.329	19.858	0.9	-9.6	NO	0.996	NO	bb
4	4 170926M1_9	Standard	2.000	4.24	3302.239	12074.676	44.441	2.0	-1.2	NO	0.996	NO	bb
5	5 170926M1_10	Standard	5.000	4.24	7461.885	10528.059	115.174	5.1	1.3	NO	0.996	NO	bb
6	6 170926M1_11	Standard	10.000	4.24	15174.544	11495.141	214.514	9.4	-5.8	NO	0.996	NO	MM
7	7 170926M1_12	Standard	50.000	4.24	78833.969	10126.701	1265.024	56.7	13.3	NO	0.996	NO	MM
8	8 170926M1_13	Standard	100.000	4.24	138848.438	11213.943	2012.037	91.7	-8.3	NO	0.996	NO	MM
9	9 170926M1_14	Standard	250.000	4.24	408477.063	13065.874	5080.221	252.3	0.9	NO	0.996	NO	MM

Compound name: N-EtFOSAA

Coefficient of Determination: R² = 0.998534

Calibration curve: -0.00890763 * x² + 16.3453 * x + -0.684366

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.33	282.318	13244.567	3.464	0.3	1.5	NO	0.999	NO	bb
2	2 170926M1_7	Standard	0.500	4.32	492.629	11852.436	6.754	0.5	-9.0	NO	0.999	NO	bb
3	3 170926M1_8	Standard	1.000	4.31	1264.474	13175.144	15.596	1.0	-0.3	NO	0.999	NO	bb
4	4 170926M1_9	Standard	2.000	4.31	2427.112	11766.679	33.519	2.1	4.7	NO	0.999	NO	bb
5	5 170926M1_10	Standard	5.000	4.31	5540.580	11938.980	75.412	4.7	-6.7	NO	0.999	NO	bb
6	6 170926M1_11	Standard	10.000	4.31	11756.753	13423.490	142.323	8.8	-12.1	NO	0.999	NO	bb
7	7 170926M1_12	Standard	50.000	4.31	58530.727	11155.334	852.618	53.8	7.6	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	4.31	114537.148	12360.525	1505.784	97.3	-2.7	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	4.31	338282.594	15556.141	3533.712	250.4	0.2	NO	0.999	NO	MM

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Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.997588$

Calibration curve: $-0.000312159 * x^2 + 0.993899 * x + 0.074875$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	4.39	1242.770	46638.336	0.333	0.3	3.9	NO	0.998	NO	MM
2	170926M1_7	Standard	0.500	4.39	1864.781	48031.109	0.485	0.4	-17.4	NO	0.998	NO	MM
3	170926M1_8	Standard	1.000	4.39	4148.276	44567.988	1.163	1.1	9.6	NO	0.998	NO	MM
4	170926M1_9	Standard	2.000	4.39	8776.668	51763.707	2.119	2.1	2.9	NO	0.998	NO	MM
5	170926M1_10	Standard	5.000	4.39	19500.156	48689.520	5.006	5.0	-0.6	NO	0.998	NO	MM
6	170926M1_11	Standard	10.000	4.39	44152.895	56717.602	9.731	9.7	-2.5	NO	0.998	NO	MM
7	170926M1_12	Standard	50.000	4.39	200057.422	46499.516	53.779	55.0	10.0	NO	0.998	NO	MM
8	170926M1_13	Standard	100.000	4.39	369020.469	51092.230	90.283	93.5	-6.5	NO	0.998	NO	MM
9	170926M1_14	Standard	250.000	4.39	1103747.125	59852.008	230.516	251.8	0.7	NO	0.998	NO	MM

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.994527$

Calibration curve: $-0.000108001 * x^2 + 0.220551 * x + 0.00739669$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	4.45	210.530	46638.336	0.056	0.2	-11.1	NO	0.995	NO	bb
2	170926M1_7	Standard	0.500	4.45	453.199	48031.109	0.118	0.5	0.3	NO	0.995	NO	bb
3	170926M1_8	Standard	1.000	4.45	1006.582	44567.988	0.282	1.2	24.7	NO	0.995	NO	bb
4	170926M1_9	Standard	2.000	4.45	1780.880	51763.707	0.430	1.9	-4.1	NO	0.995	NO	bb
5	170926M1_10	Standard	5.000	4.45	4019.807	48689.520	1.032	4.7	-6.9	NO	0.995	NO	bb
6	170926M1_11	Standard	10.000	4.45	8939.513	56717.602	1.970	8.9	-10.6	NO	0.995	NO	bb
7	170926M1_12	Standard	50.000	4.44	46021.668	46499.516	12.372	57.7	15.4	NO	0.995	NO	MM
8	170926M1_13	Standard	100.000	4.45	78819.391	51092.230	19.284	91.5	-8.5	NO	0.995	NO	MM
9	170926M1_14	Standard	250.000	4.45	233489.422	59852.008	48.764	252.2	0.9	NO	0.995	NO	MM

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.997237$

Calibration curve: $-0.000451691 * x^2 + 1.21253 * x + 0.0242095$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.58	1521.421	55114.473	0.345	0.3	5.9	NO	0.997	NO	MM
2	2 170926M1_7	Standard	0.500	4.59	2503.455	57116.289	0.548	0.4	-13.6	NO	0.997	NO	bb
3	3 170926M1_8	Standard	1.000	4.58	4657.863	42091.691	1.383	1.1	12.1	NO	0.997	NO	bb
4	4 170926M1_9	Standard	2.000	4.59	11186.10E	59358.070	2.356	1.9	-3.8	NO	0.997	NO	MM
5	5 170926M1_10	Standard	5.000	4.58	24483.289	48163.355	6.354	5.2	4.6	NO	0.997	NO	MM
6	6 170926M1_11	Standard	10.000	4.58	46116.102	53154.969	10.845	9.0	-10.5	NO	0.997	NO	MM
7	7 170926M1_12	Standard	50.000	4.58	223898.875	42575.363	65.736	55.3	10.7	NO	0.997	NO	MM
8	8 170926M1_13	Standard	100.000	4.58	464060.594	52710.457	110.049	94.0	-6.0	NO	0.997	NO	MM
9	9 170926M1_14	Standard	250.000	4.58	1416201.875	64044.016	276.412	251.5	0.6	NO	0.997	NO	MM

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999755$, $r^2 = 0.999510$

Calibration curve: $1.15061 * x + -0.0988604$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	4.69	304.674	26458.871	1.727	1.6	27.0	NO	1.000	NO	bb
2	2 170926M1_7	Standard	2.500	4.70	314.343	23436.869	2.012	1.8	-26.6	NO	1.000	NO	bb
3	3 170926M1_8	Standard	5.000	4.69	971.912	26089.443	5.588	4.9	-1.2	NO	1.000	NO	bb
4	4 170926M1_9	Standard	10.000	4.69	1820.220	25598.795	10.666	9.4	-6.4	NO	1.000	NO	bb
5	5 170926M1_10	Standard	25.000	4.69	4620.715	24694.502	28.067	24.5	-2.1	NO	1.000	NO	bb
6	6 170926M1_11	Standard	50.000	4.69	9861.315	26071.943	56.735	49.4	-1.2	NO	1.000	NO	bb
7	7 170926M1_12	Standard	250.000	4.69	50785.469	25834.549	294.869	256.4	2.5	NO	1.000	NO	bb
8	8 170926M1_13	Standard	500.000	4.69	94658.055	24096.344	589.247	512.2	2.4	NO	1.000	NO	bb
9	9 170926M1_14	Standard	1250.000	4.69	312305.656	33006.535	1419.290	1233.6	-1.3	NO	1.000	NO	bb

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Compound name: PFTrDA

Coefficient of Determination: $R^2 = 0.993928$

Calibration curve: $-0.0011688 * x^2 + 1.57785 * x + -0.0303569$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.78	1799.976	55114.473	0.408	0.3	11.2	NO	0.994	NO	bb
2	2 170926M1_7	Standard	0.500	4.78	2920.577	57116.289	0.639	0.4	-15.1	NO	0.994	NO	MM
3	3 170926M1_8	Standard	1.000	4.78	6722.675	42091.691	1.996	1.3	28.6	NO	0.994	NO	MM
4	4 170926M1_9	Standard	2.000	4.78	12404.167	59358.070	2.612	1.7	-16.2	NO	0.994	NO	MM
5	5 170926M1_10	Standard	5.000	4.78	29502.145	48163.355	7.657	4.9	-2.2	NO	0.994	NO	MM
6	6 170926M1_11	Standard	10.000	4.78	56889.320	53154.969	13.378	8.6	-14.5	NO	0.994	NO	MM
7	7 170926M1_12	Standard	50.000	4.78	297198.875	42575.363	87.257	57.8	15.6	NO	0.994	NO	MM
8	8 170926M1_13	Standard	100.000	4.78	569621.000	52710.457	135.083	91.9	-8.1	NO	0.994	NO	MM
9	9 170926M1_14	Standard	250.000	4.78	1658008.500	64044.016	323.607	252.2	0.9	NO	0.994	NO	MM

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999507$

Calibration curve: $-0.000612866 * x^2 + 1.40069 * x + -0.00357815$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.99	1010.507	37013.637	0.341	0.2	-1.5	NO	1.000	NO	bb
2	2 170926M1_7	Standard	0.500	4.99	2061.881	38082.727	0.677	0.5	-2.8	NO	1.000	NO	MM
3	3 170926M1_8	Standard	1.000	4.99	4596.044	37973.418	1.513	1.1	8.3	NO	1.000	NO	bb
4	4 170926M1_9	Standard	2.000	4.99	8445.588	35924.535	2.939	2.1	5.1	NO	1.000	NO	bb
5	5 170926M1_10	Standard	5.000	4.99	19178.607	37023.102	6.475	4.6	-7.3	NO	1.000	NO	bb
6	6 170926M1_11	Standard	10.000	4.99	40240.199	37704.617	13.341	9.6	-4.3	NO	1.000	NO	bb
7	7 170926M1_12	Standard	50.000	4.98	202104.750	35403.434	71.358	52.1	4.3	NO	1.000	NO	db
8	8 170926M1_13	Standard	100.000	4.99	375395.125	35675.473	131.531	98.1	-1.9	NO	1.000	NO	bb
9	9 170926M1_14	Standard	250.000	4.98	1106227.125	44279.004	312.289	250.4	0.2	NO	1.000	NO	bb

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Compound name: N-EtFOSA

Correlation coefficient: $r = 0.999839$, $r^2 = 0.999679$

Calibration curve: $0.95299 * x + -0.0869952$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	5.20	349.949	43976.152	1.194	1.3	7.5	NO	1.000	NO	bb
2	2 170926M1_7	Standard	2.500	5.20	498.862	35872.090	2.086	2.3	-8.8	NO	1.000	NO	bb
3	3 170926M1_8	Standard	5.000	5.20	1242.196	40771.258	4.570	4.9	-2.3	NO	1.000	NO	MM
4	4 170926M1_9	Standard	10.000	5.20	2654.510	37659.672	10.573	11.2	11.9	NO	1.000	NO	bb
5	5 170926M1_10	Standard	25.000	5.20	5703.217	38398.379	22.279	23.5	-6.1	NO	1.000	NO	bb
6	6 170926M1_11	Standard	50.000	5.20	12365.249	40772.563	45.491	47.8	-4.3	NO	1.000	NO	bb
7	7 170926M1_12	Standard	250.000	5.19	63707.438	38893.816	245.698	257.9	3.2	NO	1.000	NO	bb
8	8 170926M1_13	Standard	500.000	5.20	113758.297	36174.008	471.713	495.1	-1.0	NO	1.000	NO	db
9	9 170926M1_14	Standard	1250.000	5.20	374139.750	47123.430	1190.935	1249.8	-0.0	NO	1.000	NO	db

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.997640$

Calibration curve: $-0.000900659 * x^2 + 1.56188 * x + 0.176879$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	5.40	2162.489	18082.809	0.598	0.3	7.9	NO	0.998	NO	bb
2	2 170926M1_7	Standard	0.500	5.40	3129.228	17089.945	0.916	0.5	-5.4	NO	0.998	NO	bb
3	3 170926M1_8	Standard	1.000	5.39	6370.820	17784.754	1.791	1.0	3.4	NO	0.998	NO	bb
4	4 170926M1_9	Standard	2.000	5.40	11804.429	17402.824	3.392	2.1	3.0	NO	0.998	NO	bb
5	5 170926M1_10	Standard	5.000	5.40	27298.744	19552.660	6.981	4.4	-12.7	NO	0.998	NO	bb
6	6 170926M1_11	Standard	10.000	5.40	55764.992	17904.338	15.573	9.9	-0.9	NO	0.998	NO	bb
7	7 170926M1_12	Standard	50.000	5.39	289114.156	17374.127	83.202	54.9	9.8	NO	0.998	NO	bb
8	8 170926M1_13	Standard	100.000	5.40	514547.844	18459.410	139.373	94.2	-5.8	NO	0.998	NO	bb
9	9 170926M1_14	Standard	250.000	5.39	1675881.375	24928.498	336.138	251.6	0.6	NO	0.998	NO	MM

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Compound name: PFODA

Correlation coefficient: $r = 0.997117$, $r^2 = 0.994243$

Calibration curve: $1.6128 * x + 0.18154$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	5.79	1845.437	18082.809	0.510	0.2	-18.5	NO	0.994	NO	MM
2	2 170926M1_7	Standard	0.500	5.79	3278.084	17089.945	0.959	0.5	-3.6	NO	0.994	NO	bb
3	3 170926M1_8	Standard	1.000	5.78	7448.569	17784.754	2.094	1.2	18.6	NO	0.994	NO	bb
4	4 170926M1_9	Standard	2.000	5.79	14194.803	17402.824	4.078	2.4	20.8	NO	0.994	NO	bb
5	5 170926M1_10	Standard	5.000	5.79	32375.197	19552.660	8.279	5.0	0.4	NO	0.994	NO	MM
6	6 170926M1_11	Standard	10.000	5.79	66210.336	17904.338	18.490	11.4	13.5	NO	0.994	NO	bb
7	7 170926M1_12	Standard	50.000	5.78	327391.844	17374.127	94.218	58.3	16.6	NO	0.994	NO	MM
8	8 170926M1_13	Standard	100.000	5.78	608188.250	18459.410	164.737	102.0	2.0	NO	0.994	NO	MM
9	9 170926M1_14	Standard	250.000	5.78	1912645.125	24928.498	383.626	237.8	-4.9	NO	0.994	NO	MM

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.999877$, $r^2 = 0.999753$

Calibration curve: $1.10249 * x + 0.0738679$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	5.51	468.861	48932.402	1.437	1.2	-1.1	NO	1.000	NO	MM
2	2 170926M1_7	Standard	2.500	5.50	860.985	42944.129	3.007	2.7	6.4	NO	1.000	NO	bb
3	3 170926M1_8	Standard	5.000	5.50	1739.477	47931.863	5.444	4.9	-2.6	NO	1.000	NO	MM
4	4 170926M1_9	Standard	10.000	5.50	3463.327	46359.813	11.206	10.1	1.0	NO	1.000	NO	MM
5	5 170926M1_10	Standard	25.000	5.50	8249.956	44421.957	27.858	25.2	0.8	NO	1.000	NO	MM
6	6 170926M1_11	Standard	50.000	5.50	16993.086	46820.031	54.442	49.3	-1.4	NO	1.000	NO	MM
7	7 170926M1_12	Standard	250.000	5.50	84390.820	47364.055	267.262	242.3	-3.1	NO	1.000	NO	MM
8	8 170926M1_13	Standard	500.000	5.50	159683.391	44001.262	544.360	493.7	-1.3	NO	1.000	NO	MM
9	9 170926M1_14	Standard	1250.000	5.50	552525.000	59454.320	1393.990	1264.3	1.1	NO	1.000	NO	MM

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.999949$, $r^2 = 0.999899$

Calibration curve: $1.21879 * x + 0.083075$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	5.68	518.430	49696.551	1.565	1.2	-2.7	NO	1.000	NO	MM
2	2 170926M1_7	Standard	2.500	5.68	942.661	42949.688	3.292	2.6	5.3	NO	1.000	NO	MM
3	3 170926M1_8	Standard	5.000	5.68	1942.995	47918.156	6.082	4.9	-1.6	NO	1.000	NO	MM
4	4 170926M1_9	Standard	10.000	5.69	3870.542	47450.496	12.236	10.0	-0.3	NO	1.000	NO	bb
5	5 170926M1_10	Standard	25.000	5.68	9363.276	45689.371	30.740	25.2	0.6	NO	1.000	NO	MM
6	6 170926M1_11	Standard	50.000	5.68	19322.926	47679.582	60.790	49.8	-0.4	NO	1.000	NO	MM
7	7 170926M1_12	Standard	250.000	5.68	97002.031	47720.359	304.908	250.1	0.0	NO	1.000	NO	MM
8	8 170926M1_13	Standard	500.000	5.68	179905.734	45030.609	599.278	491.6	-1.7	NO	1.000	NO	bb
9	9 170926M1_14	Standard	1250.000	5.68	607948.313	59459.238	1533.694	1258.3	0.7	NO	1.000	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.889524

RRF SD: 0.0331836, Relative SD: 3.73049

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	1.92	17613.805	20568.512	10.704	12.0	-3.7	NO		NO	bb
2	2 170926M1_7	Standard	12.500	1.88	18773.246	20001.580	11.732	13.2	5.5	NO		NO	MM
3	3 170926M1_8	Standard	12.500	1.88	18408.828	21179.725	10.865	12.2	-2.3	NO		NO	MM
4	4 170926M1_9	Standard	12.500	1.88	18209.129	21140.998	10.766	12.1	-3.2	NO		NO	MM
5	5 170926M1_10	Standard	12.500	1.88	19320.969	21268.020	11.356	12.8	2.1	NO		NO	MM
6	6 170926M1_11	Standard	12.500	1.88	19283.436	21580.488	11.169	12.6	0.5	NO		NO	MM
7	7 170926M1_12	Standard	12.500	1.88	18174.063	21526.723	10.553	11.9	-5.1	NO		NO	bb
8	8 170926M1_13	Standard	12.500	1.88	18974.527	20893.273	11.352	12.8	2.1	NO		NO	MM
9	9 170926M1_14	Standard	12.500	1.88	21058.029	22744.289	11.573	13.0	4.1	NO		NO	MM

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Compound name: 13C3-PFPeA

Response Factor: 0.236332

RRF SD: 0.0160231, Relative SD: 6.7799

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 170926M1_6	Standard	12.500	2.97	35981.965	63709.609	2.824	11.9	-4.4	NO		NO	MM
2	2 170926M1_7	Standard	12.500	2.98	38140.273	63542.316	3.001	12.7	1.6	NO		NO	MM
3	3 170926M1_8	Standard	12.500	2.98	38553.766	66876.656	2.882	12.2	-2.4	NO		NO	MM
4	4 170926M1_9	Standard	12.500	2.98	36205.199	67005.313	2.702	11.4	-8.5	NO		NO	MM
5	5 170926M1_10	Standard	12.500	2.98	38510.066	65718.063	2.930	12.4	-0.8	NO		NO	MM
6	6 170926M1_11	Standard	12.500	2.98	39419.648	66352.203	2.970	12.6	0.6	NO		NO	bb
7	7 170926M1_12	Standard	12.500	2.98	36742.273	66751.484	2.752	11.6	-6.8	NO		NO	bb
8	8 170926M1_13	Standard	12.500	2.97	39387.836	60012.277	3.282	13.9	11.1	NO		NO	bb
9	9 170926M1_14	Standard	12.500	2.98	37255.500	57423.898	3.244	13.7	9.8	NO		NO	MM

Compound name: 13C3-PFBS

Response Factor: 0.0559448

RRF SD: 0.00367649, Relative SD: 6.57165

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 170926M1_6	Standard	12.500	3.15	8097.803	63709.609	0.636	11.4	-9.1	NO		NO	bb
2	2 170926M1_7	Standard	12.500	3.16	9640.106	63542.316	0.759	13.6	8.5	NO		NO	bb
3	3 170926M1_8	Standard	12.500	3.16	9446.969	66876.656	0.706	12.6	1.0	NO		NO	bb
4	4 170926M1_9	Standard	12.500	3.16	8694.710	67005.313	0.649	11.6	-7.2	NO		NO	bb
5	5 170926M1_10	Standard	12.500	3.15	8763.979	65718.063	0.667	11.9	-4.7	NO		NO	MM
6	6 170926M1_11	Standard	12.500	3.15	8989.179	66352.203	0.677	12.1	-3.1	NO		NO	bb
7	7 170926M1_12	Standard	12.500	3.15	10212.084	66751.484	0.765	13.7	9.4	NO		NO	bb
8	8 170926M1_13	Standard	12.500	3.16	8732.539	60012.277	0.728	13.0	4.0	NO		NO	bb
9	9 170926M1_14	Standard	12.500	3.16	8130.431	57423.898	0.708	12.7	1.2	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.283298

RRF SD: 0.0156671, Relative SD: 5.53025

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	5.000	3.37	18439.123	63709.609	1.447	5.1	2.2	NO		NO	bb
2	2 170926M1_7	Standard	5.000	3.37	17749.219	63542.316	1.397	4.9	-1.4	NO		NO	bb
3	3 170926M1_8	Standard	5.000	3.38	20067.127	66876.656	1.500	5.3	5.9	NO		NO	bb
4	4 170926M1_9	Standard	5.000	3.38	17824.650	67005.313	1.330	4.7	-6.1	NO		NO	MM
5	5 170926M1_10	Standard	5.000	3.37	18244.521	65718.063	1.388	4.9	-2.0	NO		NO	bb
6	6 170926M1_11	Standard	5.000	3.37	18411.217	66352.203	1.387	4.9	-2.1	NO		NO	bb
7	7 170926M1_12	Standard	5.000	3.37	17227.830	66751.484	1.290	4.6	-8.9	NO		NO	bb
8	8 170926M1_13	Standard	5.000	3.37	17893.344	60012.277	1.491	5.3	5.2	NO		NO	bb
9	9 170926M1_14	Standard	5.000	3.38	17428.289	57423.898	1.518	5.4	7.1	NO		NO	MM

Compound name: 13C4-PFHpA

Response Factor: 0.499861

RRF SD: 0.0670038, Relative SD: 13.4045

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	3.63	85124.656	63709.609	6.681	13.4	6.9	NO		NO	MM
2	2 170926M1_7	Standard	12.500	3.63	75745.172	63542.316	5.960	11.9	-4.6	NO		NO	MM
3	3 170926M1_8	Standard	12.500	3.63	83440.781	66876.656	6.238	12.5	-0.2	NO		NO	MM
4	4 170926M1_9	Standard	12.500	3.63	73560.961	67005.313	5.489	11.0	-12.1	NO		NO	MM
5	5 170926M1_10	Standard	12.500	3.63	77536.695	65718.063	5.899	11.8	-5.6	NO		NO	MM
6	6 170926M1_11	Standard	12.500	3.63	78441.781	66352.203	5.911	11.8	-5.4	NO		NO	MM
7	7 170926M1_12	Standard	12.500	3.63	74803.906	66751.484	5.603	11.2	-10.3	NO		NO	MM
8	8 170926M1_13	Standard	12.500	3.63	74141.344	60012.277	6.177	12.4	-1.1	NO		NO	MM
9	9 170926M1_14	Standard	12.500	3.63	95039.898	57423.898	8.275	16.6	32.4	NO		NO	MM

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Compound name: 18O2-PFHxS

Response Factor: 0.482425

RRF SD: 0.0398857, Relative SD: 8.26775

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	12.500	3.70	4583.046	10133.618	5.653	11.7	-6.3	NO		NO	MM
2	170926M1_7	Standard	12.500	3.71	5124.452	8886.030	7.209	14.9	19.5	NO		NO	MM
3	170926M1_8	Standard	12.500	3.70	4775.080	10011.354	5.962	12.4	-1.1	NO		NO	bb
4	170926M1_9	Standard	12.500	3.71	4586.509	10206.660	5.617	11.6	-6.9	NO		NO	MM
5	170926M1_10	Standard	12.500	3.70	4507.254	9211.941	6.116	12.7	1.4	NO		NO	bb
6	170926M1_11	Standard	12.500	3.70	4747.102	9821.379	6.042	12.5	0.2	NO		NO	MM
7	170926M1_12	Standard	12.500	3.70	4547.346	10312.585	5.512	11.4	-8.6	NO		NO	bb
8	170926M1_13	Standard	12.500	3.70	4715.147	9732.842	6.056	12.6	0.4	NO		NO	bb
9	170926M1_14	Standard	12.500	3.70	5132.338	10506.146	6.106	12.7	1.3	NO		NO	MM

Compound name: 13C2-6:2 FTS

Response Factor: 0.183197

RRF SD: 0.0223473, Relative SD: 12.1985

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	12.500	3.83	8015.970	52057.777	1.925	10.5	-15.9	NO		NO	bb
2	170926M1_7	Standard	12.500	3.82	8675.122	46224.645	2.346	12.8	2.4	NO		NO	bb
3	170926M1_8	Standard	12.500	3.83	8531.048	47944.160	2.224	12.1	-2.9	NO		NO	bb
4	170926M1_9	Standard	12.500	3.83	7337.573	47010.746	1.951	10.6	-14.8	NO		NO	bb
5	170926M1_10	Standard	12.500	3.82	8707.056	47627.098	2.285	12.5	-0.2	NO		NO	bb
6	170926M1_11	Standard	12.500	3.82	8593.252	45915.309	2.339	12.8	2.2	NO		NO	bb
7	170926M1_12	Standard	12.500	3.82	9559.567	48864.094	2.445	13.3	6.8	NO		NO	MM
8	170926M1_13	Standard	12.500	3.83	9564.410	42642.469	2.804	15.3	22.4	NO		NO	bb
9	170926M1_14	Standard	12.500	3.82	14878.135	51316.266	3.624	19.8	58.3	NO		NO	MMX

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Compound name: 13C2-PFOA

Response Factor: 1.15759

RRF SD: 0.0598897, Relative SD: 5.17367

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	3.84	57472.527	52057.777	13.800	11.9	-4.6	NO		NO	bb
2	2 170926M1_7	Standard	12.500	3.84	55558.078	46224.645	15.024	13.0	3.8	NO		NO	bb
3	3 170926M1_8	Standard	12.500	3.84	53550.098	47944.160	13.962	12.1	-3.5	NO		NO	bb
4	4 170926M1_9	Standard	12.500	3.84	56503.746	47010.746	15.024	13.0	3.8	NO		NO	bb
5	5 170926M1_10	Standard	12.500	3.84	54364.102	47627.098	14.268	12.3	-1.4	NO		NO	bb
6	6 170926M1_11	Standard	12.500	3.84	52370.980	45915.309	14.257	12.3	-1.5	NO		NO	bb
7	7 170926M1_12	Standard	12.500	3.83	52551.176	48864.094	13.443	11.6	-7.1	NO		NO	bb
8	8 170926M1_13	Standard	12.500	3.84	49672.285	42642.469	14.561	12.6	0.6	NO		NO	MM
9	9 170926M1_14	Standard	12.500	3.84	65229.695	51316.266	15.889	13.7	9.8	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.888246

RRF SD: 0.0677271, Relative SD: 7.62482

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.03	49863.914	59813.063	10.421	11.7	-6.1	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.03	55938.543	57013.219	12.264	13.8	10.5	NO		NO	MM
3	3 170926M1_8	Standard	12.500	4.02	52005.914	61257.246	10.612	11.9	-4.4	NO		NO	MM
4	4 170926M1_9	Standard	12.500	4.03	50512.246	63414.484	9.957	11.2	-10.3	NO		NO	bb
5	5 170926M1_10	Standard	12.500	4.03	54176.277	58759.492	11.525	13.0	3.8	NO		NO	bb
6	6 170926M1_11	Standard	12.500	4.03	57047.996	61634.496	11.570	13.0	4.2	NO		NO	bb
7	7 170926M1_12	Standard	12.500	4.02	49287.465	60758.391	10.140	11.4	-8.7	NO		NO	MM
8	8 170926M1_13	Standard	12.500	4.03	45425.496	50054.738	11.344	12.8	2.2	NO		NO	bb
9	9 170926M1_14	Standard	12.500	4.02	61351.066	63407.141	12.095	13.6	8.9	NO		NO	MM

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Compound name: 13C8-PFOA

Response Factor: 0.142689

RRF SD: 0.011212, Relative SD: 7.85761

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.03	7347.348	51865.277	1.771	12.4	-0.7	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.03	7905.017	58501.719	1.689	11.8	-5.3	NO		NO	MM
3	3 170926M1_8	Standard	12.500	4.04	7178.021	55657.828	1.612	11.3	-9.6	NO		NO	bb
4	4 170926M1_9	Standard	12.500	4.04	7702.087	49606.848	1.941	13.6	8.8	NO		NO	MM
5	5 170926M1_10	Standard	12.500	4.03	7920.415	50008.211	1.980	13.9	11.0	NO		NO	bb
6	6 170926M1_11	Standard	12.500	4.03	7736.169	60095.434	1.609	11.3	-9.8	NO		NO	MM
7	7 170926M1_12	Standard	12.500	4.03	7009.465	49411.406	1.773	12.4	-0.6	NO		NO	bb
8	8 170926M1_13	Standard	12.500	4.04	7336.622	47376.086	1.936	13.6	8.5	NO		NO	bb
9	9 170926M1_14	Standard	12.500	4.04	7369.899	52885.313	1.742	12.2	-2.3	NO		NO	bd

Compound name: 13C8-PFOS

Response Factor: 1.01293

RRF SD: 0.0857892, Relative SD: 8.46937

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.09	11549.142	12946.069	11.151	11.0	-11.9	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.09	10670.576	11070.917	12.048	11.9	-4.8	NO		NO	bb
3	3 170926M1_8	Standard	12.500	4.09	11627.481	12065.901	12.046	11.9	-4.9	NO		NO	MM
4	4 170926M1_9	Standard	12.500	4.09	12186.089	10486.455	14.526	14.3	14.7	NO		NO	MM
5	5 170926M1_10	Standard	12.500	4.09	11408.685	10472.645	13.617	13.4	7.5	NO		NO	bd
6	6 170926M1_11	Standard	12.500	4.09	11386.074	11683.854	12.181	12.0	-3.8	NO		NO	MM
7	7 170926M1_12	Standard	12.500	4.08	10339.790	10630.664	12.158	12.0	-4.0	NO		NO	MM
8	8 170926M1_13	Standard	12.500	4.09	11771.329	10680.053	13.777	13.6	8.8	NO		NO	bd
9	9 170926M1_14	Standard	12.500	4.09	11937.639	11985.308	12.450	12.3	-1.7	NO		NO	bd

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Compound name: 13C2-PFDA

Response Factor: 0.875646

RRF SD: 0.078505, Relative SD: 8.96539

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.22	40676.949	53036.141	9.587	10.9	-12.4	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.21	43655.695	47918.148	11.388	13.0	4.0	NO		NO	bb
3	3 170926M1_8	Standard	12.500	4.21	40823.016	48317.691	10.561	12.1	-3.5	NO		NO	MM
4	4 170926M1_9	Standard	12.500	4.22	40806.695	50347.758	10.131	11.6	-7.4	NO		NO	bb
5	5 170926M1_10	Standard	12.500	4.21	43516.934	49839.918	10.914	12.5	-0.3	NO		NO	MM
6	6 170926M1_11	Standard	12.500	4.21	46191.582	48801.328	11.832	13.5	8.1	NO		NO	MM
7	7 170926M1_12	Standard	12.500	4.21	40428.777	49868.027	10.134	11.6	-7.4	NO		NO	bb
8	8 170926M1_13	Standard	12.500	4.21	45186.660	44212.621	12.775	14.6	16.7	NO		NO	bb
9	9 170926M1_14	Standard	12.500	4.21	47361.582	52917.293	11.188	12.8	2.2	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.147667

RRF SD: 0.0215834, Relative SD: 14.6162

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.20	9724.055	53036.141	2.292	15.5	24.2	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.20	6569.169	47918.148	1.714	11.6	-7.2	NO		NO	bb
3	3 170926M1_8	Standard	12.500	4.21	6167.581	48317.691	1.596	10.8	-13.6	NO		NO	bb
4	4 170926M1_9	Standard	12.500	4.20	6623.573	50347.758	1.644	11.1	-10.9	NO		NO	bb
5	5 170926M1_10	Standard	12.500	4.21	6467.106	49839.918	1.622	11.0	-12.1	NO		NO	MM
6	6 170926M1_11	Standard	12.500	4.20	7191.006	48801.328	1.842	12.5	-0.2	NO		NO	bb
7	7 170926M1_12	Standard	12.500	4.20	7331.251	49868.027	1.838	12.4	-0.4	NO		NO	bb
8	8 170926M1_13	Standard	12.500	4.21	7850.913	44212.621	2.220	15.0	20.3	NO		NO	bb
9	9 170926M1_14	Standard	12.500	4.20	12506.111	52917.293	2.954	20.0	60.0	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.017051

RRF SD: 0.00149134, Relative SD: 8.74637

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	162.500	4.24	12196.284	51865.277	2.939	172.4	6.1	NO		NO	bb
2	170926M1_7	Standard	162.500	4.24	12392.990	58501.719	2.648	155.3	-4.4	NO		NO	MM
3	170926M1_8	Standard	162.500	4.24	11913.329	55657.828	2.676	156.9	-3.4	NO		NO	MM
4	170926M1_9	Standard	162.500	4.24	12074.676	49606.848	3.043	178.4	9.8	NO		NO	MM
5	170926M1_10	Standard	162.500	4.24	10528.059	50008.211	2.632	154.3	-5.0	NO		NO	MM
6	170926M1_11	Standard	162.500	4.24	11495.141	60095.434	2.391	140.2	-13.7	NO		NO	bb
7	170926M1_12	Standard	162.500	4.24	10126.701	49411.406	2.562	150.2	-7.5	NO		NO	MM
8	170926M1_13	Standard	162.500	4.24	11213.943	47376.086	2.959	173.5	6.8	NO		NO	bb
9	170926M1_14	Standard	162.500	4.24	13065.874	52885.313	3.088	181.1	11.5	NO		NO	MM

Compound name: d5-N-EtFOSAA

Response Factor: 0.0185881

RRF SD: 0.00201307, Relative SD: 10.8299

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	162.500	4.31	13244.567	51865.277	3.192	171.7	5.7	NO		NO	bb
2	170926M1_7	Standard	162.500	4.31	11852.436	58501.719	2.532	136.2	-16.2	NO		NO	MM
3	170926M1_8	Standard	162.500	4.31	13175.144	55657.828	2.959	159.2	-2.0	NO		NO	bb
4	170926M1_9	Standard	162.500	4.31	11766.679	49606.848	2.965	159.5	-1.8	NO		NO	bb
5	170926M1_10	Standard	162.500	4.31	11938.980	50008.211	2.984	160.5	-1.2	NO		NO	bb
6	170926M1_11	Standard	162.500	4.31	13423.490	60095.434	2.792	150.2	-7.6	NO		NO	bb
7	170926M1_12	Standard	162.500	4.30	11155.334	49411.406	2.822	151.8	-6.6	NO		NO	MM
8	170926M1_13	Standard	162.500	4.31	12360.525	47376.086	3.261	175.4	8.0	NO		NO	bb
9	170926M1_14	Standard	162.500	4.31	15556.141	52885.313	3.677	197.8	21.7	NO		NO	bb

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Compound name: 13C2-PFUnA

Response Factor: 0.959237

RRF SD: 0.111613, Relative SD: 11.6356

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	12.500	4.39	46638.336	51865.277	11.240	11.7	-6.3	NO		NO	bb
2	170926M1_7	Standard	12.500	4.39	48031.109	58501.719	10.263	10.7	-14.4	NO		NO	bb
3	170926M1_8	Standard	12.500	4.39	44567.988	55657.828	10.009	10.4	-16.5	NO		NO	bb
4	170926M1_9	Standard	12.500	4.39	51763.707	49606.848	13.043	13.6	8.8	NO		NO	bb
5	170926M1_10	Standard	12.500	4.39	48689.520	50008.211	12.170	12.7	1.5	NO		NO	bb
6	170926M1_11	Standard	12.500	4.39	56717.602	60095.434	11.797	12.3	-1.6	NO		NO	bb
7	170926M1_12	Standard	12.500	4.39	46499.516	49411.406	11.763	12.3	-1.9	NO		NO	bb
8	170926M1_13	Standard	12.500	4.39	51092.230	47376.086	13.480	14.1	12.4	NO		NO	MM
9	170926M1_14	Standard	12.500	4.39	59852.008	52885.313	14.147	14.7	18.0	NO		NO	bd

Compound name: 13C2-PFDoA

Response Factor: 1.00274

RRF SD: 0.155526, Relative SD: 15.5101

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	12.500	4.58	55114.473	51865.277	13.283	13.2	6.0	NO		NO	bb
2	170926M1_7	Standard	12.500	4.58	57116.289	58501.719	12.204	12.2	-2.6	NO		NO	bb
3	170926M1_8	Standard	12.500	4.58	42091.691	55657.828	9.453	9.4	-24.6	NO		NO	MM
4	170926M1_9	Standard	12.500	4.58	59358.070	49606.848	14.957	14.9	19.3	NO		NO	MM
5	170926M1_10	Standard	12.500	4.58	48163.355	50008.211	12.039	12.0	-4.0	NO		NO	bb
6	170926M1_11	Standard	12.500	4.58	53154.969	60095.434	11.056	11.0	-11.8	NO		NO	bb
7	170926M1_12	Standard	12.500	4.58	42575.363	49411.406	10.771	10.7	-14.1	NO		NO	bb
8	170926M1_13	Standard	12.500	4.58	52710.457	47376.086	13.907	13.9	11.0	NO		NO	bb
9	170926M1_14	Standard	12.500	4.58	64044.016	52885.313	15.137	15.1	20.8	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.0414701

RRF SD: 0.00523571, Relative SD: 12.6253

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	150.000	4.72	26458.871	51865.277	6.377	153.8	2.5	NO		NO	bb
2	2 170926M1_7	Standard	150.000	4.72	23436.869	58501.719	5.008	120.8	-19.5	NO		NO	bb
3	3 170926M1_8	Standard	150.000	4.72	26089.443	55657.828	5.859	141.3	-5.8	NO		NO	bb
4	4 170926M1_9	Standard	150.000	4.73	25598.795	49606.848	6.450	155.5	3.7	NO		NO	bb
5	5 170926M1_10	Standard	150.000	4.72	24694.502	50008.211	6.173	148.8	-0.8	NO		NO	bb
6	6 170926M1_11	Standard	150.000	4.72	26071.943	60095.434	5.423	130.8	-12.8	NO		NO	bb
7	7 170926M1_12	Standard	150.000	4.72	25834.549	49411.406	6.536	157.6	5.1	NO		NO	bb
8	8 170926M1_13	Standard	150.000	4.72	24096.344	47376.086	6.358	153.3	2.2	NO		NO	bb
9	9 170926M1_14	Standard	150.000	4.72	33006.535	52885.313	7.801	188.1	25.4	NO		NO	bd

Compound name: 13C2-PFTeDA

Response Factor: 0.71618

RRF SD: 0.0611924, Relative SD: 8.54428

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.99	37013.637	51865.277	8.921	12.5	-0.4	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.99	38082.727	58501.719	8.137	11.4	-9.1	NO		NO	bb
3	3 170926M1_8	Standard	12.500	4.99	37973.418	55657.828	8.528	11.9	-4.7	NO		NO	bb
4	4 170926M1_9	Standard	12.500	4.99	35924.535	49606.848	9.052	12.6	1.1	NO		NO	bb
5	5 170926M1_10	Standard	12.500	4.99	37023.102	50008.211	9.254	12.9	3.4	NO		NO	bb
6	6 170926M1_11	Standard	12.500	4.99	37704.617	60095.434	7.843	11.0	-12.4	NO		NO	bb
7	7 170926M1_12	Standard	12.500	4.98	35403.434	49411.406	8.956	12.5	0.0	NO		NO	bb
8	8 170926M1_13	Standard	12.500	4.98	35675.473	47376.086	9.413	13.1	5.1	NO		NO	MM
9	9 170926M1_14	Standard	12.500	4.98	44279.004	52885.313	10.466	14.6	16.9	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.0633409

RRF SD: 0.00688881, Relative SD: 10.8758

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	150.000	5.23	43976.152	51865.277	10.599	167.3	11.6	NO		NO	MM
2	170926M1_7	Standard	150.000	5.23	35872.090	58501.719	7.665	121.0	-19.3	NO		NO	MM
3	170926M1_8	Standard	150.000	5.23	40771.258	55657.828	9.157	144.6	-3.6	NO		NO	MM
4	170926M1_9	Standard	150.000	5.23	37659.672	49606.848	9.490	149.8	-0.1	NO		NO	MM
5	170926M1_10	Standard	150.000	5.23	38398.379	50008.211	9.598	151.5	1.0	NO		NO	MM
6	170926M1_11	Standard	150.000	5.23	40772.563	60095.434	8.481	133.9	-10.7	NO		NO	MM
7	170926M1_12	Standard	150.000	5.22	38893.816	49411.406	9.839	155.3	3.6	NO		NO	MM
8	170926M1_13	Standard	150.000	5.23	36174.008	47376.086	9.544	150.7	0.5	NO		NO	bb
9	170926M1_14	Standard	150.000	5.23	47123.430	52885.313	11.138	175.8	17.2	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.89241

RRF SD: 0.138458, Relative SD: 15.5151

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	5.000	5.40	18082.809	51865.277	4.358	4.9	-2.3	NO		NO	bb
2	170926M1_7	Standard	5.000	5.40	17089.945	58501.719	3.652	4.1	-18.2	NO		NO	bb
3	170926M1_8	Standard	5.000	5.40	17784.754	55657.828	3.994	4.5	-10.5	NO		NO	bb
4	170926M1_9	Standard	5.000	5.40	17402.824	49606.848	4.385	4.9	-1.7	NO		NO	bb
5	170926M1_10	Standard	5.000	5.40	19552.660	50008.211	4.887	5.5	9.5	NO		NO	MM
6	170926M1_11	Standard	5.000	5.40	17904.338	60095.434	3.724	4.2	-16.5	NO		NO	bb
7	170926M1_12	Standard	5.000	5.39	17374.127	49411.406	4.395	4.9	-1.5	NO		NO	bb
8	170926M1_13	Standard	5.000	5.40	18459.410	47376.086	4.870	5.5	9.2	NO		NO	bb
9	170926M1_14	Standard	5.000	5.39	24928.498	52885.313	5.892	6.6	32.0	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.0754832

RRF SD: 0.00936819, Relative SD: 12.411

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	150.000	5.49	48932.402	51865.277	11.793	156.2	4.2	NO		NO	bb
2	2 170926M1_7	Standard	150.000	5.49	42944.129	58501.719	9.176	121.6	-19.0	NO		NO	bb
3	3 170926M1_8	Standard	150.000	5.49	47931.863	55657.828	10.765	142.6	-4.9	NO		NO	bb
4	4 170926M1_9	Standard	150.000	5.49	46359.813	49606.848	11.682	154.8	3.2	NO		NO	bb
5	5 170926M1_10	Standard	150.000	5.49	44421.957	50008.211	11.104	147.1	-1.9	NO		NO	bb
6	6 170926M1_11	Standard	150.000	5.49	46820.031	60095.434	9.739	129.0	-14.0	NO		NO	bb
7	7 170926M1_12	Standard	150.000	5.48	47364.055	49411.406	11.982	158.7	5.8	NO		NO	bb
8	8 170926M1_13	Standard	150.000	5.49	44001.262	47376.086	11.610	153.8	2.5	NO		NO	bd
9	9 170926M1_14	Standard	150.000	5.49	59454.320	52885.313	14.053	186.2	24.1	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.0764577

RRF SD: 0.00939094, Relative SD: 12.2825

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	150.000	5.67	49696.551	51865.277	11.977	156.7	4.4	NO		NO	bb
2	2 170926M1_7	Standard	150.000	5.67	42949.688	58501.719	9.177	120.0	-20.0	NO		NO	bb
3	3 170926M1_8	Standard	150.000	5.67	47918.156	55657.828	10.762	140.8	-6.2	NO		NO	MM
4	4 170926M1_9	Standard	150.000	5.67	47450.496	49606.848	11.957	156.4	4.3	NO		NO	MM
5	5 170926M1_10	Standard	150.000	5.67	45689.371	50008.211	11.420	149.4	-0.4	NO		NO	MM
6	6 170926M1_11	Standard	150.000	5.67	47679.582	60095.434	9.917	129.7	-13.5	NO		NO	MM
7	7 170926M1_12	Standard	150.000	5.67	47720.359	49411.406	12.072	157.9	5.3	NO		NO	MM
8	8 170926M1_13	Standard	150.000	5.67	45030.609	47376.086	11.881	155.4	3.6	NO		NO	MM
9	9 170926M1_14	Standard	150.000	5.67	59459.238	52885.313	14.054	183.8	22.5	NO		NO	MM

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	1.91	20568.512	20568.512	12.500	12.5	0.0	NO		NO	bb
2	2 170926M1_7	Standard	12.500	1.88	20001.580	20001.580	12.500	12.5	0.0	NO		NO	bb
3	3 170926M1_8	Standard	12.500	1.89	21179.725	21179.725	12.500	12.5	0.0	NO		NO	bb
4	4 170926M1_9	Standard	12.500	1.88	21140.998	21140.998	12.500	12.5	0.0	NO		NO	bb
5	5 170926M1_10	Standard	12.500	1.88	21268.020	21268.020	12.500	12.5	0.0	NO		NO	bb
6	6 170926M1_11	Standard	12.500	1.89	21580.488	21580.488	12.500	12.5	0.0	NO		NO	bb
7	7 170926M1_12	Standard	12.500	1.87	21526.723	21526.723	12.500	12.5	0.0	NO		NO	bb
8	8 170926M1_13	Standard	12.500	1.88	20893.273	20893.273	12.500	12.5	0.0	NO		NO	bb
9	9 170926M1_14	Standard	12.500	1.88	22744.289	22744.289	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	5.000	3.37	63709.609	63709.609	5.000	5.0	0.0	NO		NO	bb
2	2 170926M1_7	Standard	5.000	3.38	63542.316	63542.316	5.000	5.0	0.0	NO		NO	bb
3	3 170926M1_8	Standard	5.000	3.37	66876.656	66876.656	5.000	5.0	0.0	NO		NO	bb
4	4 170926M1_9	Standard	5.000	3.37	67005.313	67005.313	5.000	5.0	0.0	NO		NO	bb
5	5 170926M1_10	Standard	5.000	3.37	65718.063	65718.063	5.000	5.0	0.0	NO		NO	bb
6	6 170926M1_11	Standard	5.000	3.37	66352.203	66352.203	5.000	5.0	0.0	NO		NO	bd
7	7 170926M1_12	Standard	5.000	3.37	66751.484	66751.484	5.000	5.0	0.0	NO		NO	bb
8	8 170926M1_13	Standard	5.000	3.37	60012.277	60012.277	5.000	5.0	0.0	NO		NO	bb
9	9 170926M1_14	Standard	5.000	3.38	57423.898	57423.898	5.000	5.0	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	3.70	10133.618	10133.618	12.500	12.5	0.0	NO		NO	bb
2	2 170926M1_7	Standard	12.500	3.70	8886.030	8886.030	12.500	12.5	0.0	NO		NO	bb
3	3 170926M1_8	Standard	12.500	3.70	10011.354	10011.354	12.500	12.5	0.0	NO		NO	bb
4	4 170926M1_9	Standard	12.500	3.70	10206.660	10206.660	12.500	12.5	0.0	NO		NO	bb
5	5 170926M1_10	Standard	12.500	3.70	9211.941	9211.941	12.500	12.5	0.0	NO		NO	bb
6	6 170926M1_11	Standard	12.500	3.70	9821.379	9821.379	12.500	12.5	0.0	NO		NO	bb
7	7 170926M1_12	Standard	12.500	3.70	10312.585	10312.585	12.500	12.5	0.0	NO		NO	bb
8	8 170926M1_13	Standard	12.500	3.70	9732.842	9732.842	12.500	12.5	0.0	NO		NO	bb
9	9 170926M1_14	Standard	12.500	3.70	10506.146	10506.146	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	3.84	52057.777	52057.777	12.500	12.5	0.0	NO		NO	bb
2	2 170926M1_7	Standard	12.500	3.84	46224.645	46224.645	12.500	12.5	0.0	NO		NO	bb
3	3 170926M1_8	Standard	12.500	3.84	47944.160	47944.160	12.500	12.5	0.0	NO		NO	bb
4	4 170926M1_9	Standard	12.500	3.84	47010.746	47010.746	12.500	12.5	0.0	NO		NO	bb
5	5 170926M1_10	Standard	12.500	3.84	47627.098	47627.098	12.500	12.5	0.0	NO		NO	bb
6	6 170926M1_11	Standard	12.500	3.84	45915.309	45915.309	12.500	12.5	0.0	NO		NO	bb
7	7 170926M1_12	Standard	12.500	3.83	48864.094	48864.094	12.500	12.5	0.0	NO		NO	bb
8	8 170926M1_13	Standard	12.500	3.84	42642.469	42642.469	12.500	12.5	0.0	NO		NO	bb
9	9 170926M1_14	Standard	12.500	3.84	51316.266	51316.266	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.03	59813.063	59813.063	12.500	12.5	0.0	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.03	57013.219	57013.219	12.500	12.5	0.0	NO		NO	bb
3	3 170926M1_8	Standard	12.500	4.02	61257.246	61257.246	12.500	12.5	0.0	NO		NO	bb
4	4 170926M1_9	Standard	12.500	4.03	63414.484	63414.484	12.500	12.5	0.0	NO		NO	bb
5	5 170926M1_10	Standard	12.500	4.03	58759.492	58759.492	12.500	12.5	0.0	NO		NO	bb
6	6 170926M1_11	Standard	12.500	4.03	61634.496	61634.496	12.500	12.5	0.0	NO		NO	bb
7	7 170926M1_12	Standard	12.500	4.02	60758.391	60758.391	12.500	12.5	0.0	NO		NO	bb
8	8 170926M1_13	Standard	12.500	4.03	50054.738	50054.738	12.500	12.5	0.0	NO		NO	bb
9	9 170926M1_14	Standard	12.500	4.02	63407.141	63407.141	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	4.09	12946.069	12946.069	12.500	12.5	0.0	NO		NO	bb
2	2 170926M1_7	Standard	12.500	4.09	11070.917	11070.917	12.500	12.5	0.0	NO		NO	bb
3	3 170926M1_8	Standard	12.500	4.09	12065.901	12065.901	12.500	12.5	0.0	NO		NO	bb
4	4 170926M1_9	Standard	12.500	4.09	10486.455	10486.455	12.500	12.5	0.0	NO		NO	bb
5	5 170926M1_10	Standard	12.500	4.09	10472.645	10472.645	12.500	12.5	0.0	NO		NO	bb
6	6 170926M1_11	Standard	12.500	4.09	11683.854	11683.854	12.500	12.5	0.0	NO		NO	bb
7	7 170926M1_12	Standard	12.500	4.08	10630.664	10630.664	12.500	12.5	0.0	NO		NO	bb
8	8 170926M1_13	Standard	12.500	4.09	10680.053	10680.053	12.500	12.5	0.0	NO		NO	bb
9	9 170926M1_14	Standard	12.500	4.09	11985.308	11985.308	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	12.500	4.21	53036.141	53036.141	12.500	12.5	0.0	NO		NO	bb
2	170926M1_7	Standard	12.500	4.21	47918.148	47918.148	12.500	12.5	0.0	NO		NO	bb
3	170926M1_8	Standard	12.500	4.21	48317.691	48317.691	12.500	12.5	0.0	NO		NO	bb
4	170926M1_9	Standard	12.500	4.21	50347.758	50347.758	12.500	12.5	0.0	NO		NO	bb
5	170926M1_10	Standard	12.500	4.21	49839.918	49839.918	12.500	12.5	0.0	NO		NO	bb
6	170926M1_11	Standard	12.500	4.21	48801.328	48801.328	12.500	12.5	0.0	NO		NO	bb
7	170926M1_12	Standard	12.500	4.21	49868.027	49868.027	12.500	12.5	0.0	NO		NO	bb
8	170926M1_13	Standard	12.500	4.21	44212.621	44212.621	12.500	12.5	0.0	NO		NO	bb
9	170926M1_14	Standard	12.500	4.21	52917.293	52917.293	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUnA

Response Factor: 1

RRF SD: 9.61481e-017, Relative SD: 9.61481e-015

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	12.500	4.39	51865.277	51865.277	12.500	12.5	0.0	NO		NO	bb
2	170926M1_7	Standard	12.500	4.39	58501.719	58501.719	12.500	12.5	0.0	NO		NO	bb
3	170926M1_8	Standard	12.500	4.39	55657.828	55657.828	12.500	12.5	0.0	NO		NO	MM
4	170926M1_9	Standard	12.500	4.40	49606.848	49606.848	12.500	12.5	0.0	NO		NO	bb
5	170926M1_10	Standard	12.500	4.39	50008.211	50008.211	12.500	12.5	0.0	NO		NO	bb
6	170926M1_11	Standard	12.500	4.39	60095.434	60095.434	12.500	12.5	0.0	NO		NO	bb
7	170926M1_12	Standard	12.500	4.39	49411.406	49411.406	12.500	12.5	0.0	NO		NO	bb
8	170926M1_13	Standard	12.500	4.39	47376.086	47376.086	12.500	12.5	0.0	NO		NO	bb
9	170926M1_14	Standard	12.500	4.39	52885.313	52885.313	12.500	12.5	0.0	NO		NO	bb

Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 14:38:17 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:40:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\IC18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170926M1_5	IPA	26-Sep-17	09:18:26
2	170926M1_6	ST170926M1-1 PFC CS-2 17I2504	26-Sep-17	09:34:33
3	170926M1_7	ST170926M1-2 PFC CS-1 17I2505	26-Sep-17	09:56:46
4	170926M1_8	ST170926M1-3 PFC CS0 17I2506	26-Sep-17	10:09:38
5	170926M1_9	ST170926M1-4 PFC CS1 17I2507	26-Sep-17	10:20:25
6	170926M1_10	ST170926M1-5 PFC CS2 17I2508	26-Sep-17	10:31:03
7	170926M1_11	ST170926M1-6 PFC CS3 17I2509	26-Sep-17	10:41:42
8	170926M1_12	ST170926M1-7 PFC CS4 17I2510	26-Sep-17	10:52:20
9	170926M1_13	ST170926M1-8 PFC CS5 17I2511	26-Sep-17	11:02:58
10	170926M1_14	ST170926M1-9 PFC CS6 17I2512	26-Sep-17	11:13:37
11	170926M1_15	ST170926M1-10 PFC CS7 17I2513	26-Sep-17	11:24:23
12	170926M1_16	IPA	26-Sep-17	11:35:02
13	170926M1_17	ICV170926M1-1 PFC ICV 17I2514	26-Sep-17	11:45:48

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:10:06

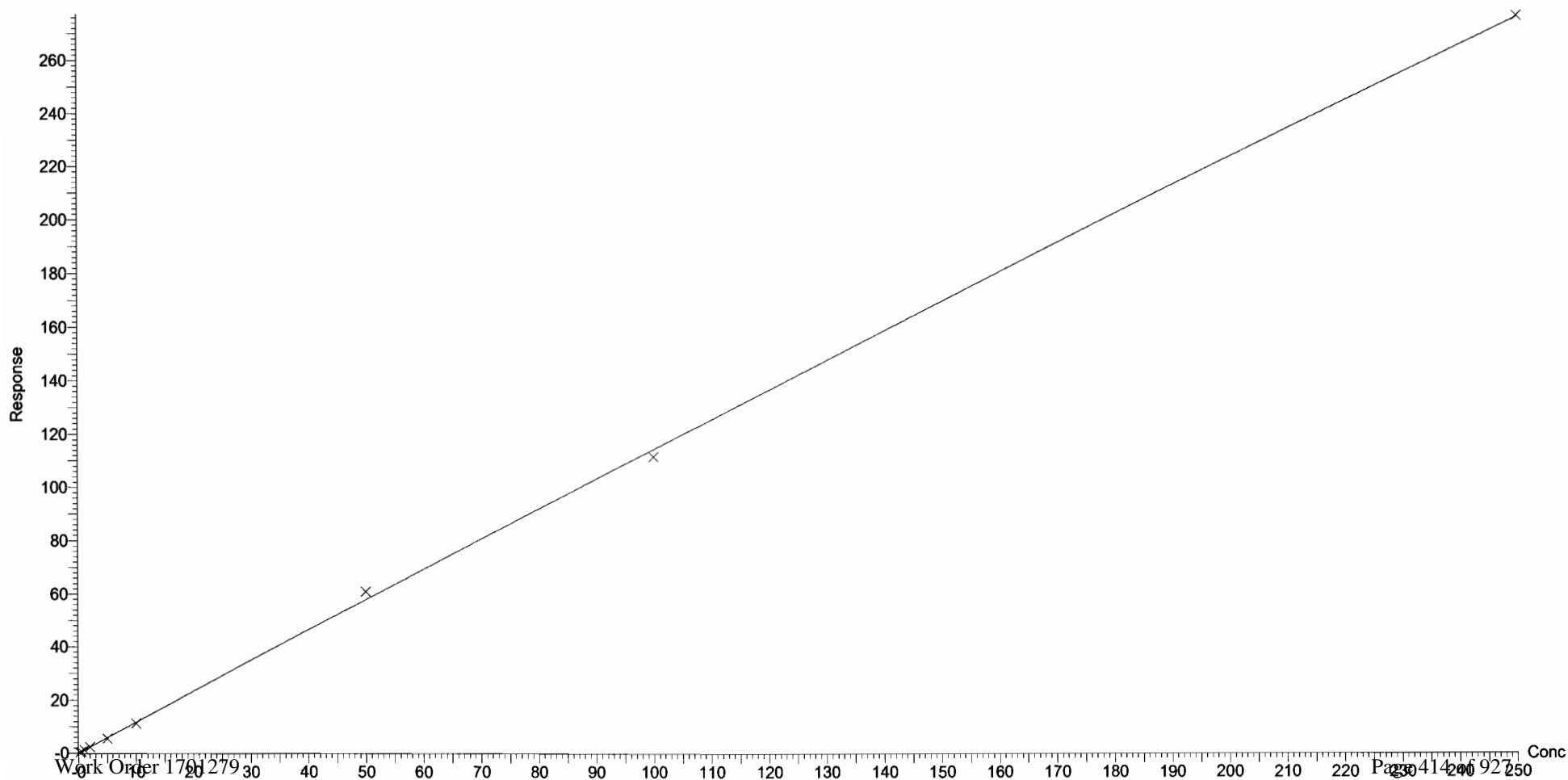
Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999423$

Calibration curve: $-0.000254075 * x^2 + 1.17037 * x + -0.00273304$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

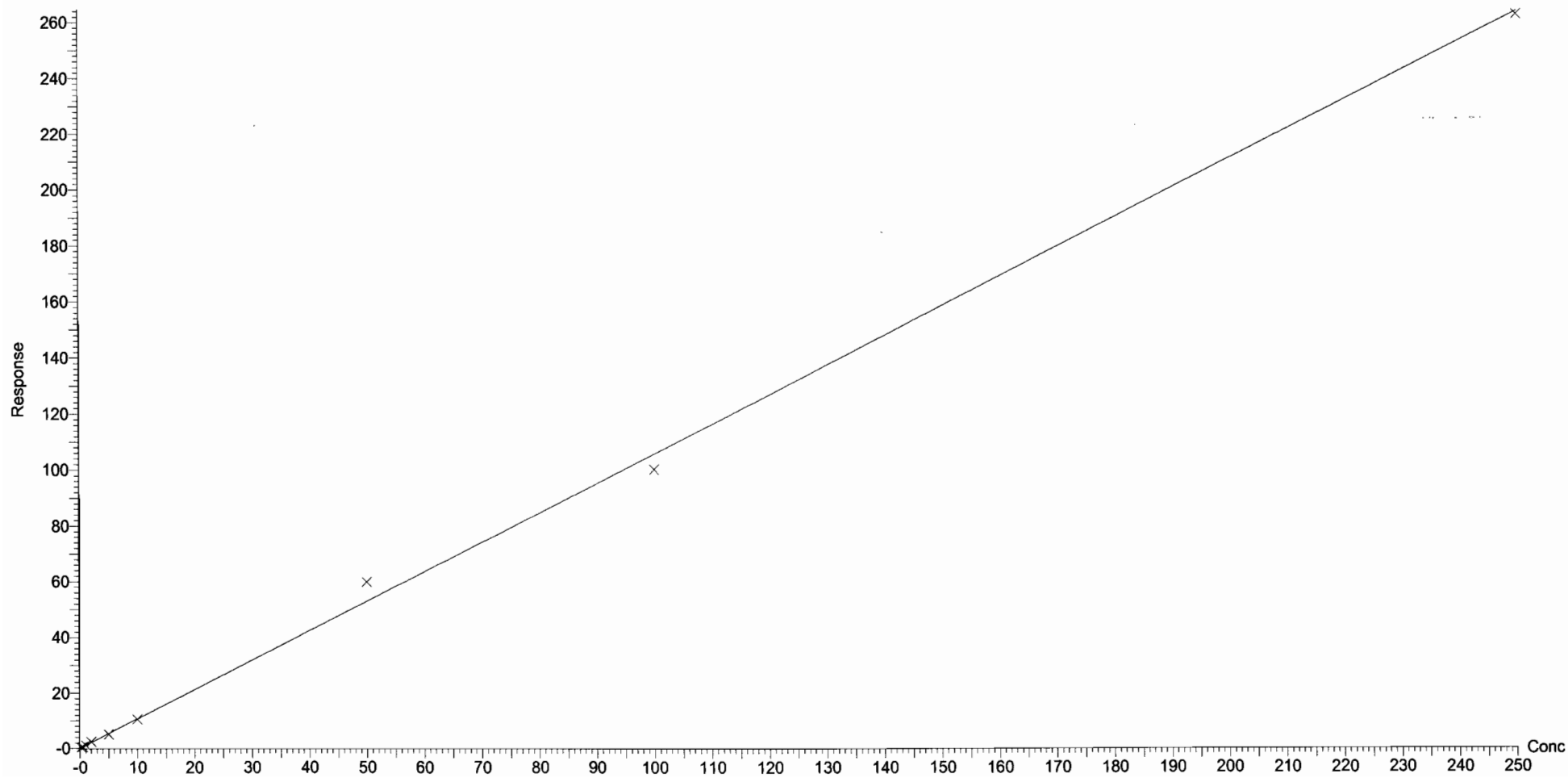
Compound name: PFPeA

Correlation coefficient: $r = 0.998532$, $r^2 = 0.997067$

Calibration curve: $1.05798 * x + 0.0713744$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

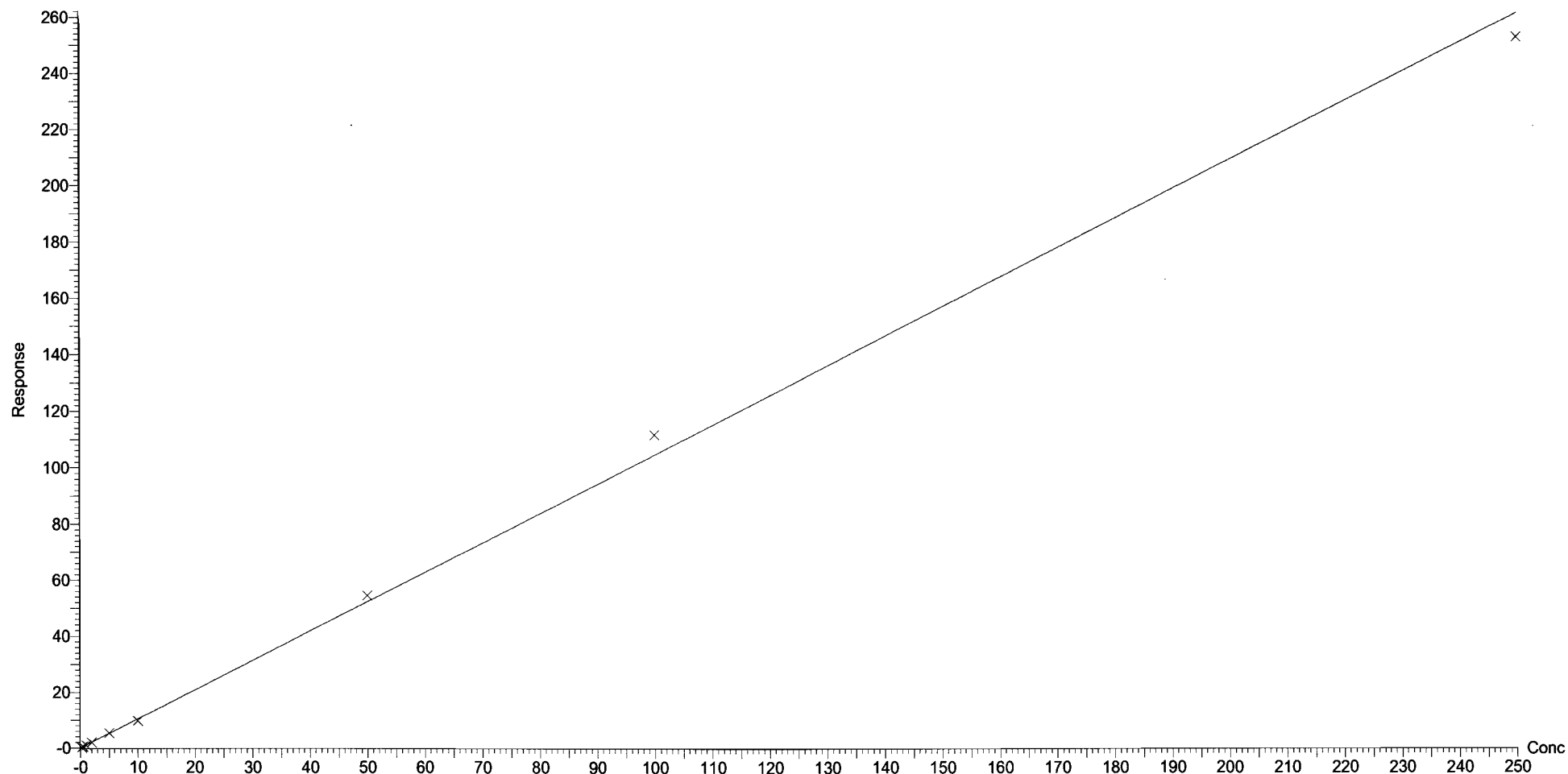
Compound name: PFBS

Correlation coefficient: $r = 0.998931$, $r^2 = 0.997863$

Calibration curve: $1.04858 * x + -0.0324365$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

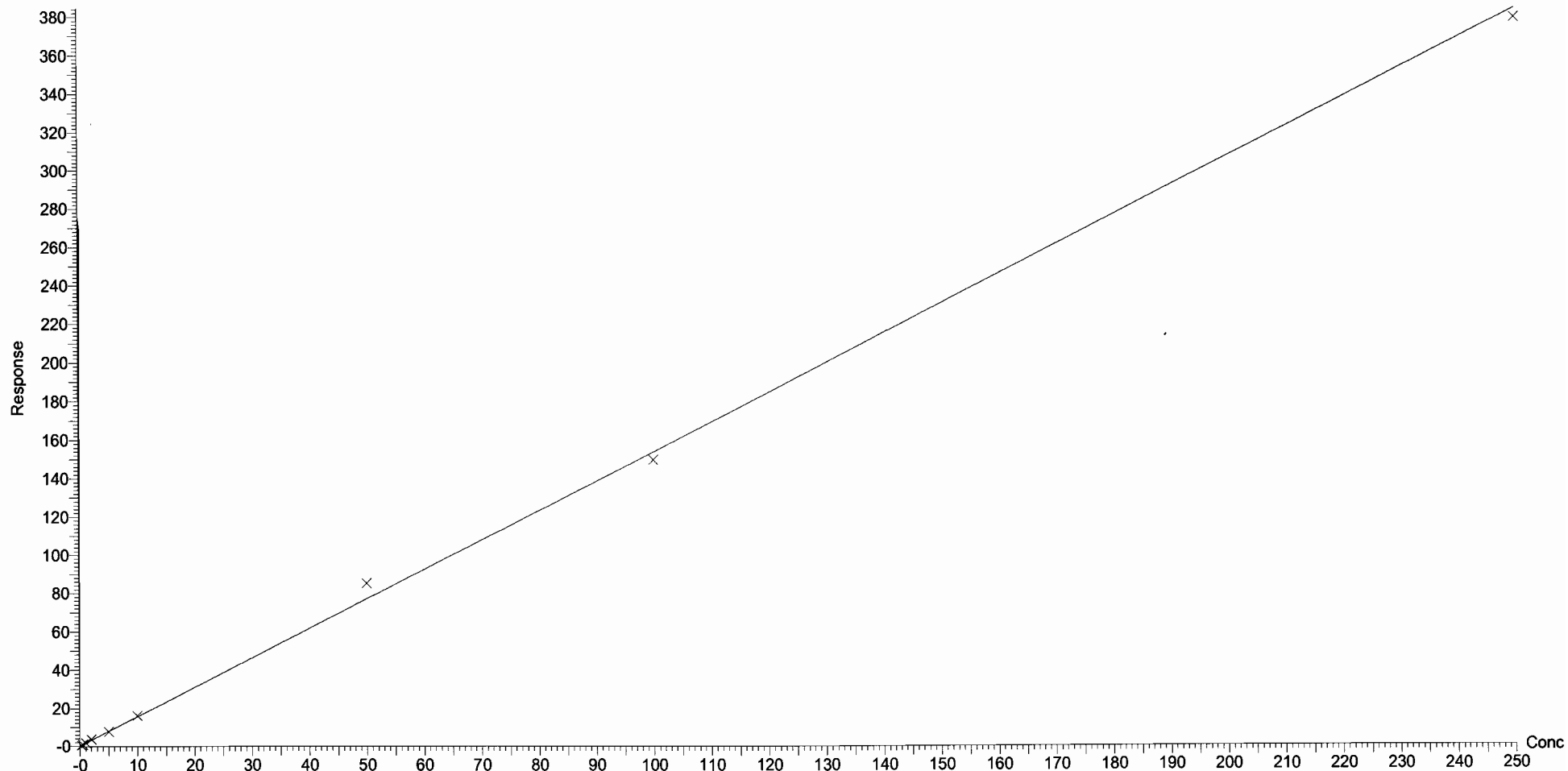
Compound name: PFHxA

Correlation coefficient: $r = 0.999092$, $r^2 = 0.998186$

Calibration curve: $1.53706 * x + 0.162682$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

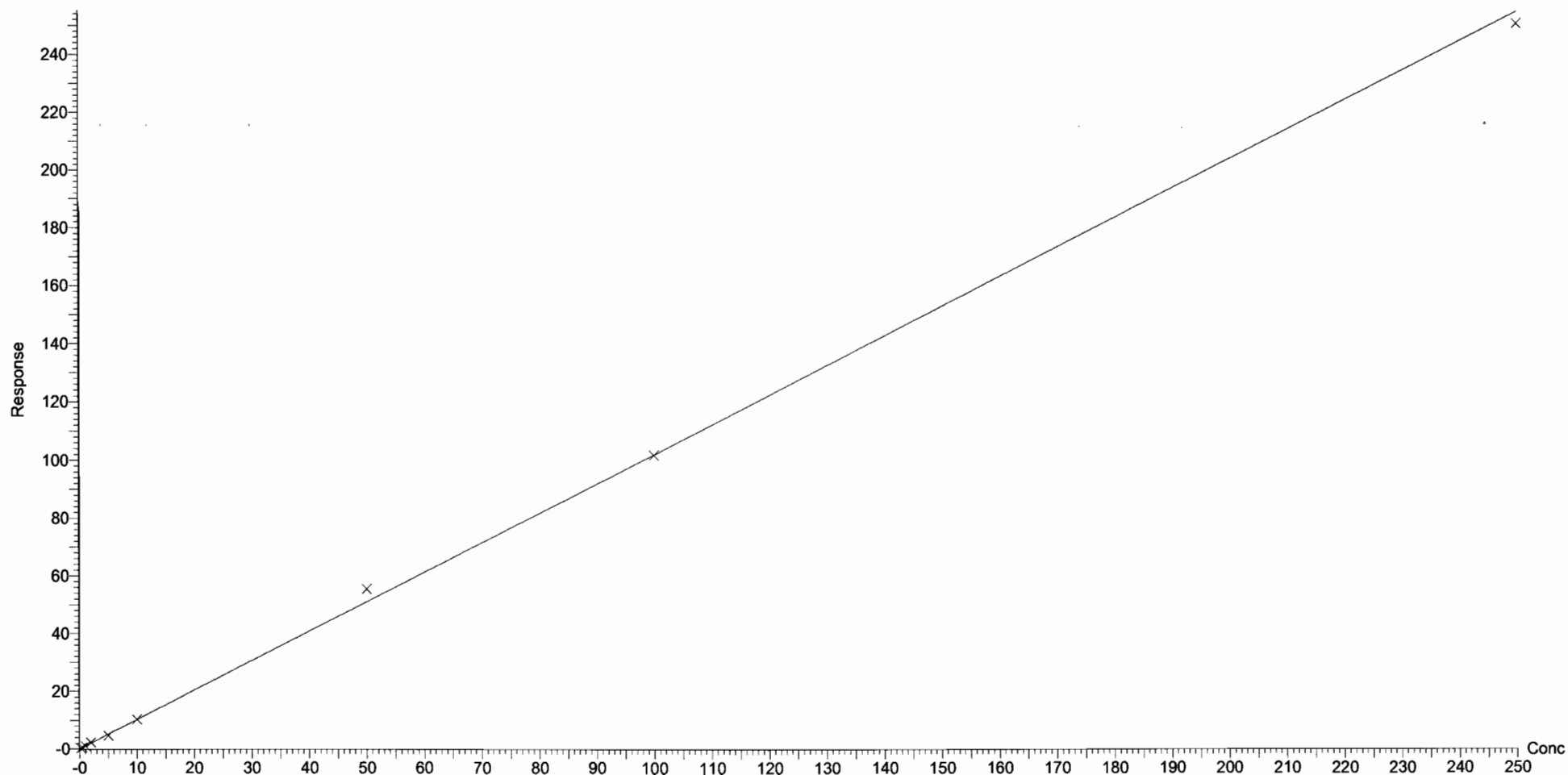
Compound name: PFHpA

Correlation coefficient: $r = 0.999371$, $r^2 = 0.998742$

Calibration curve: $1.02069 * x + 0.0325041$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

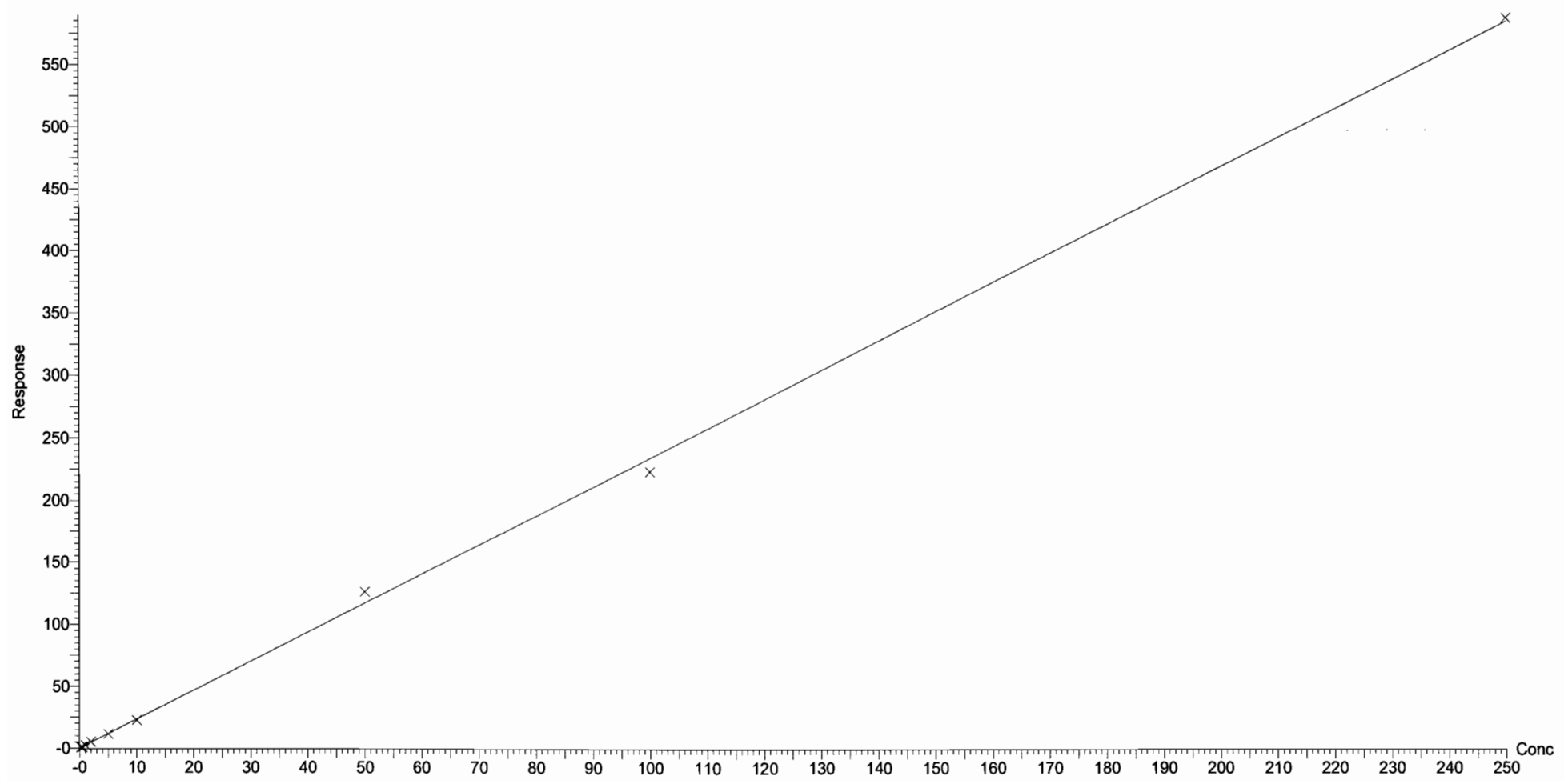


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

Compound name: L-PFHxS
Coefficient of Determination: $R^2 = 0.998525$
Calibration curve: $6.01008e-006 * x^2 + 2.3448 * x + 0.0456733$
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

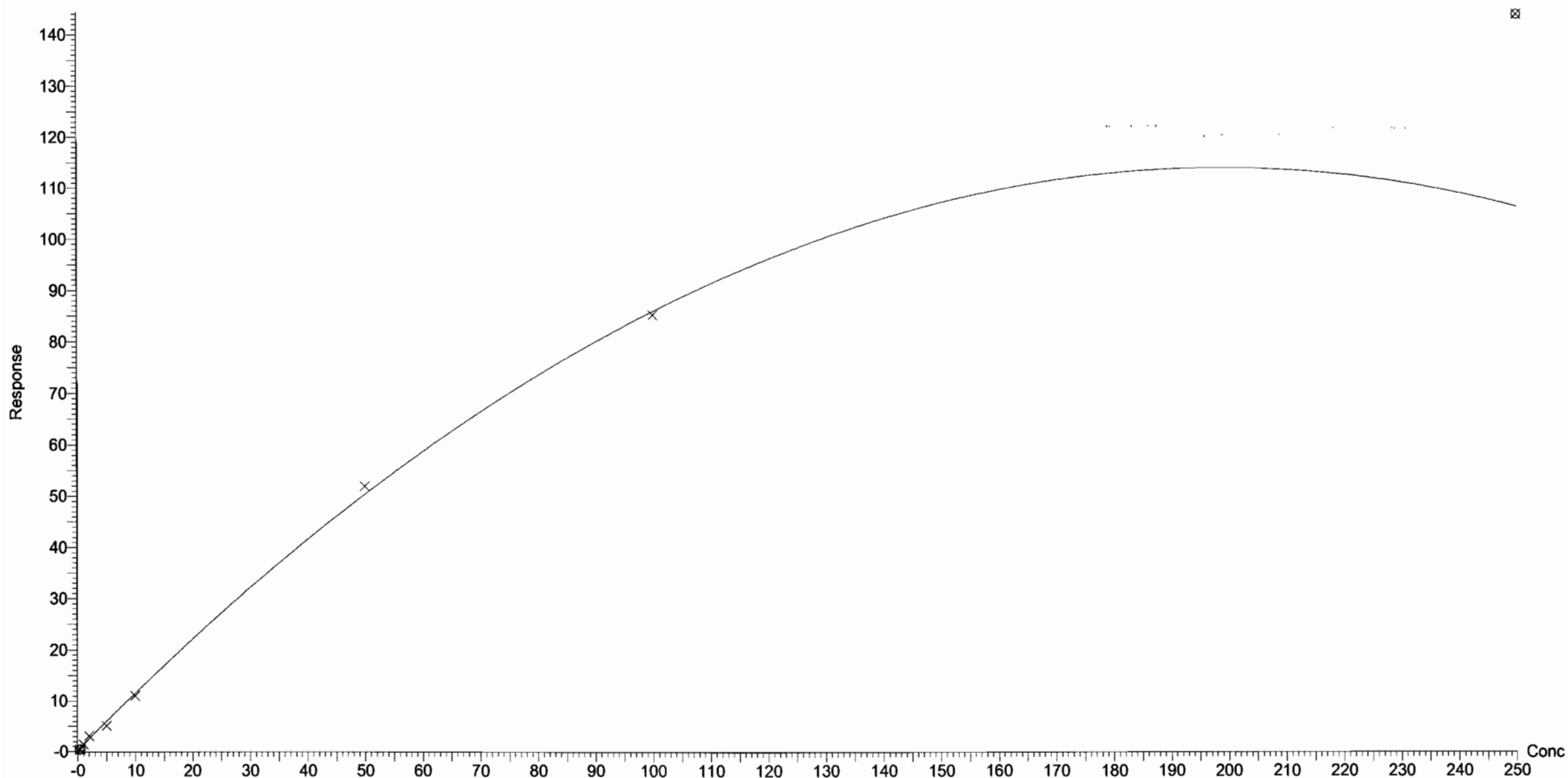
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.997058$

Calibration curve: $-0.00288509 * x^2 + 1.14646 * x + 0.316166$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

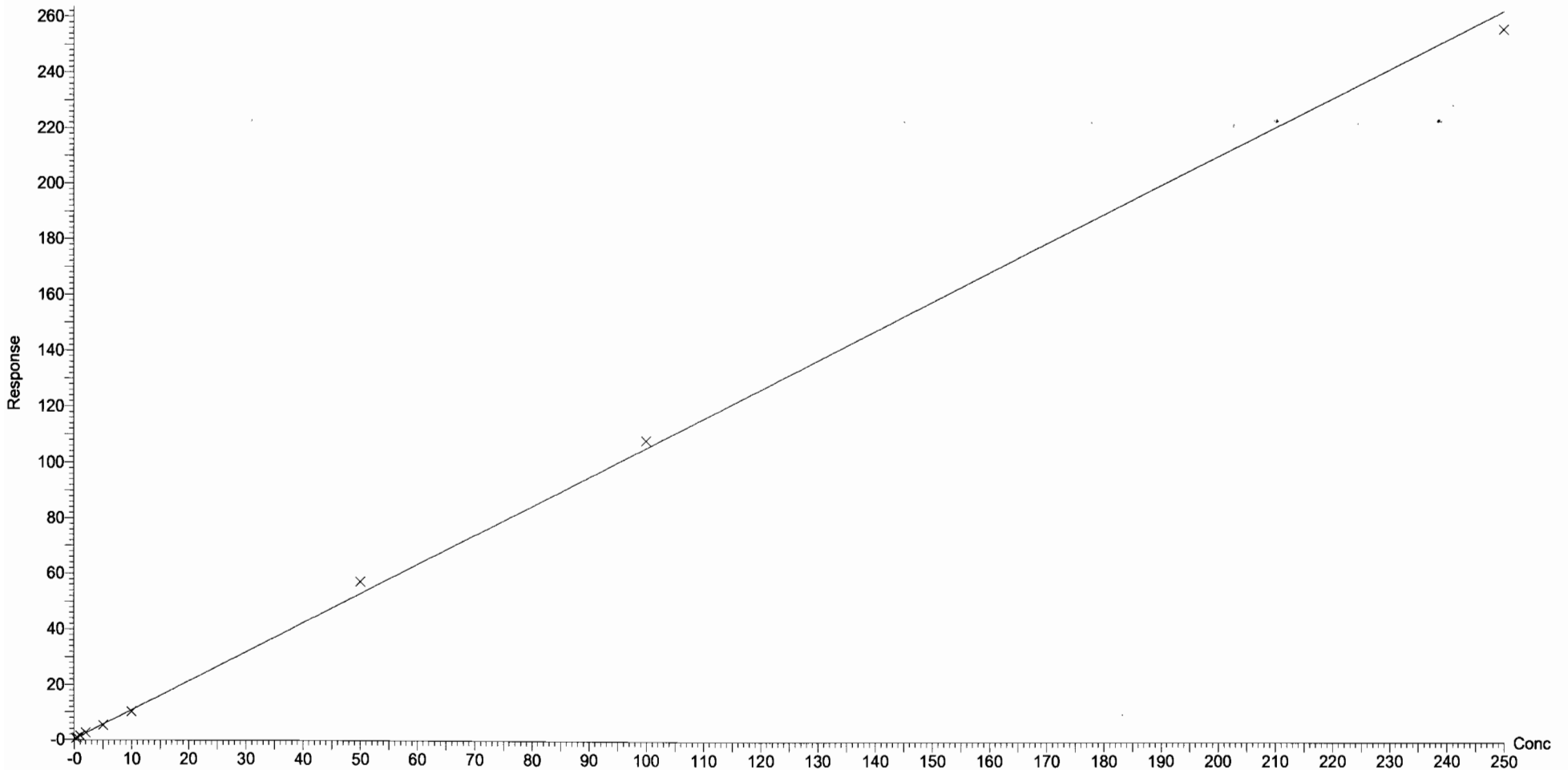
Compound name: L-PFOA

Correlation coefficient: $r = 0.999252$, $r^2 = 0.998504$

Calibration curve: $1.05269 * x + 0.304023$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:23:13 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:26:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

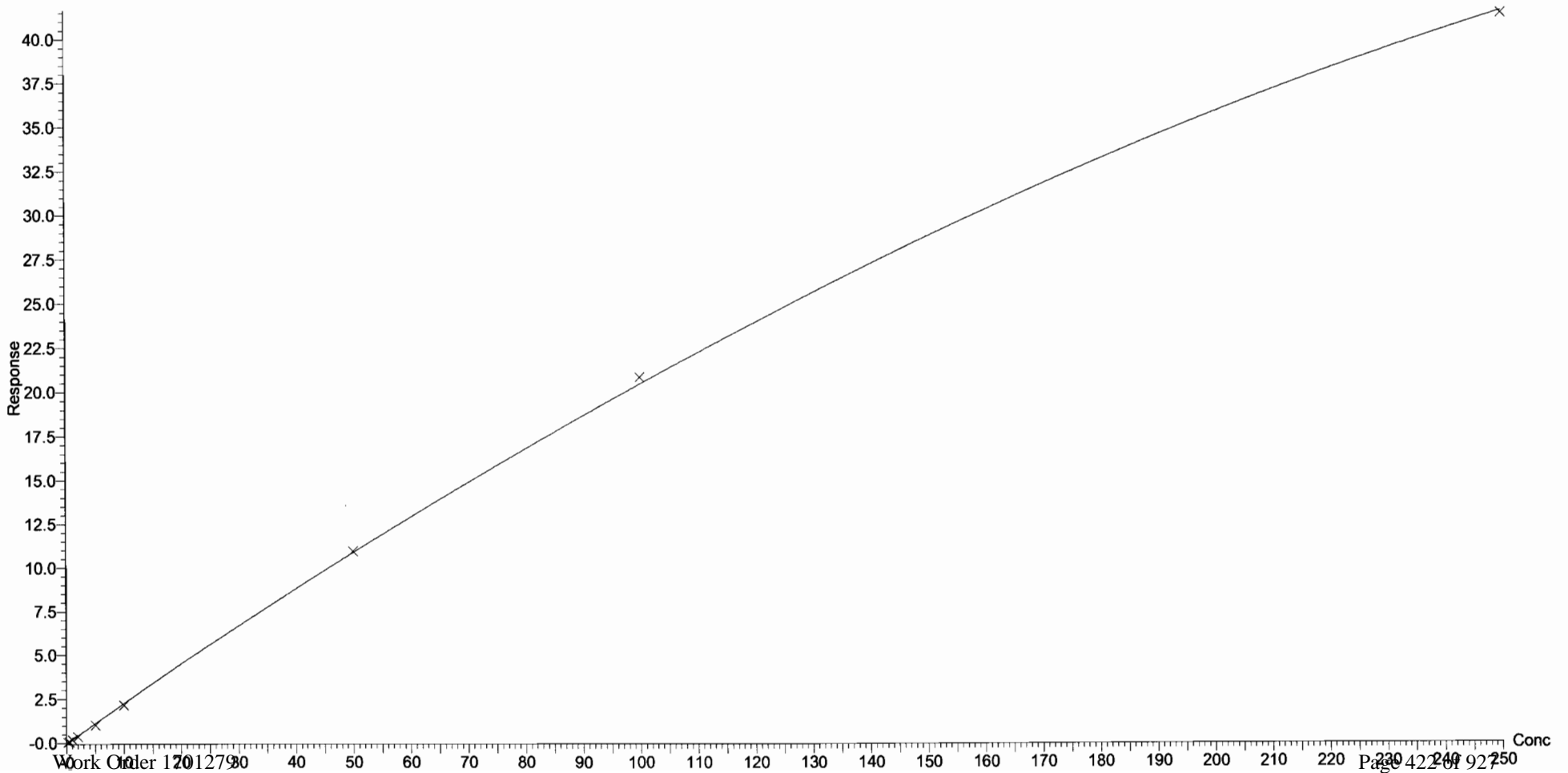
Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.999390$

Calibration curve: $-0.000256301 * x^2 + 0.230781 * x + -0.0174965$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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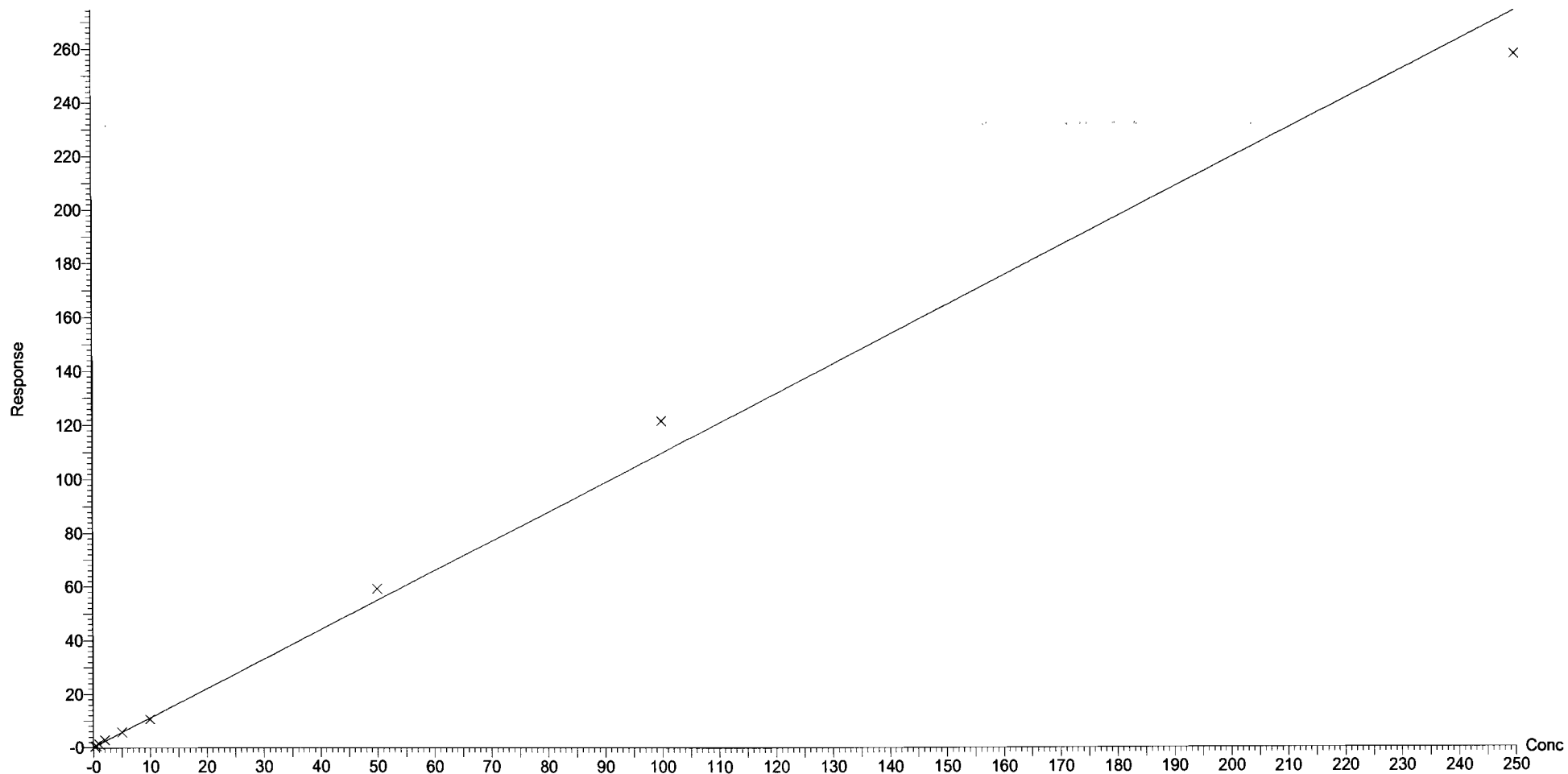
Compound name: PFNA

Correlation coefficient: $r = 0.996989$, $r^2 = 0.993986$

Calibration curve: $1.09665 * x + 0.146809$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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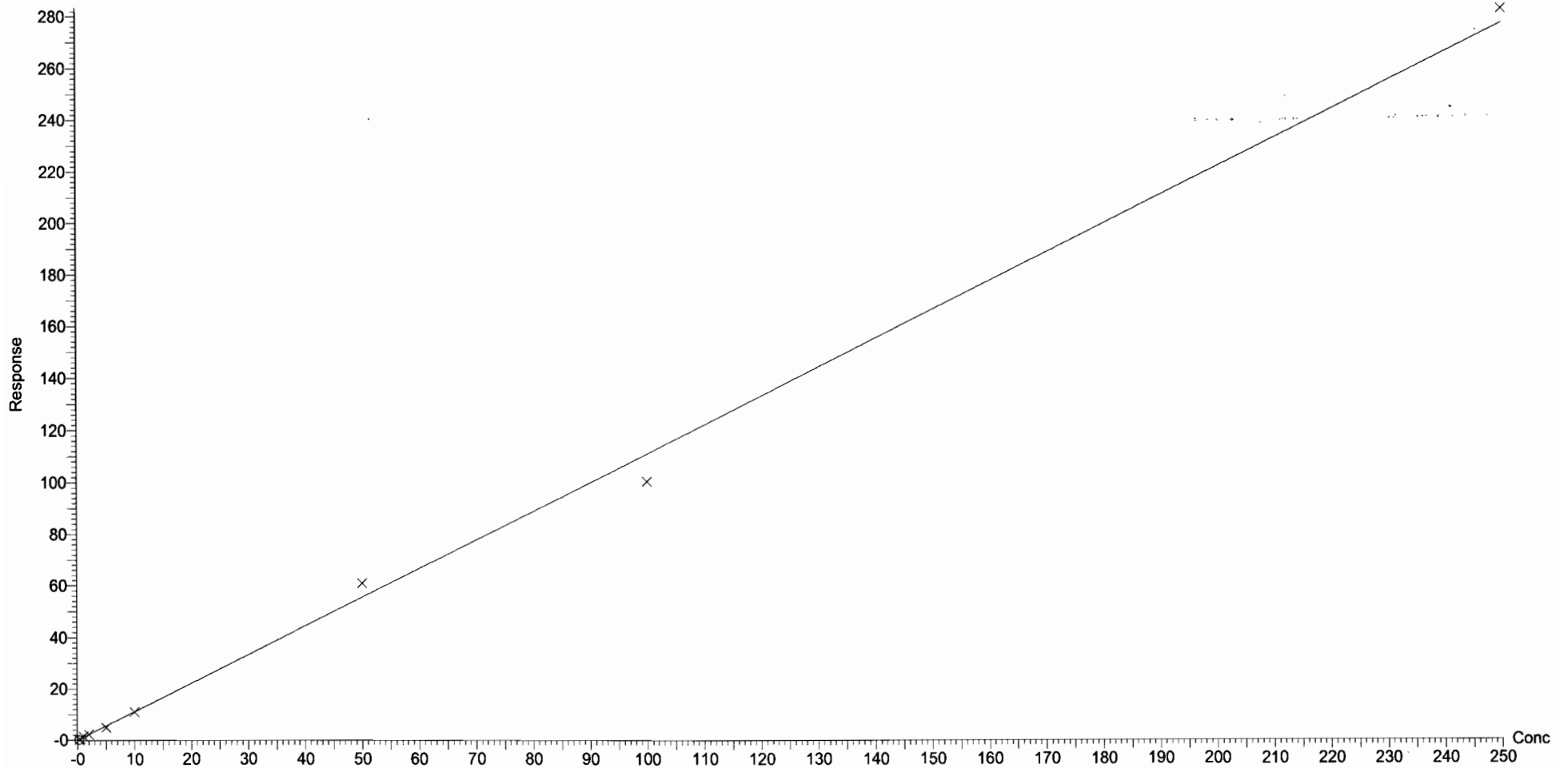
Compound name: PFOSA

Correlation coefficient: $r = 0.997992$, $r^2 = 0.995989$

Calibration curve: $1.11087 * x + -0.00238488$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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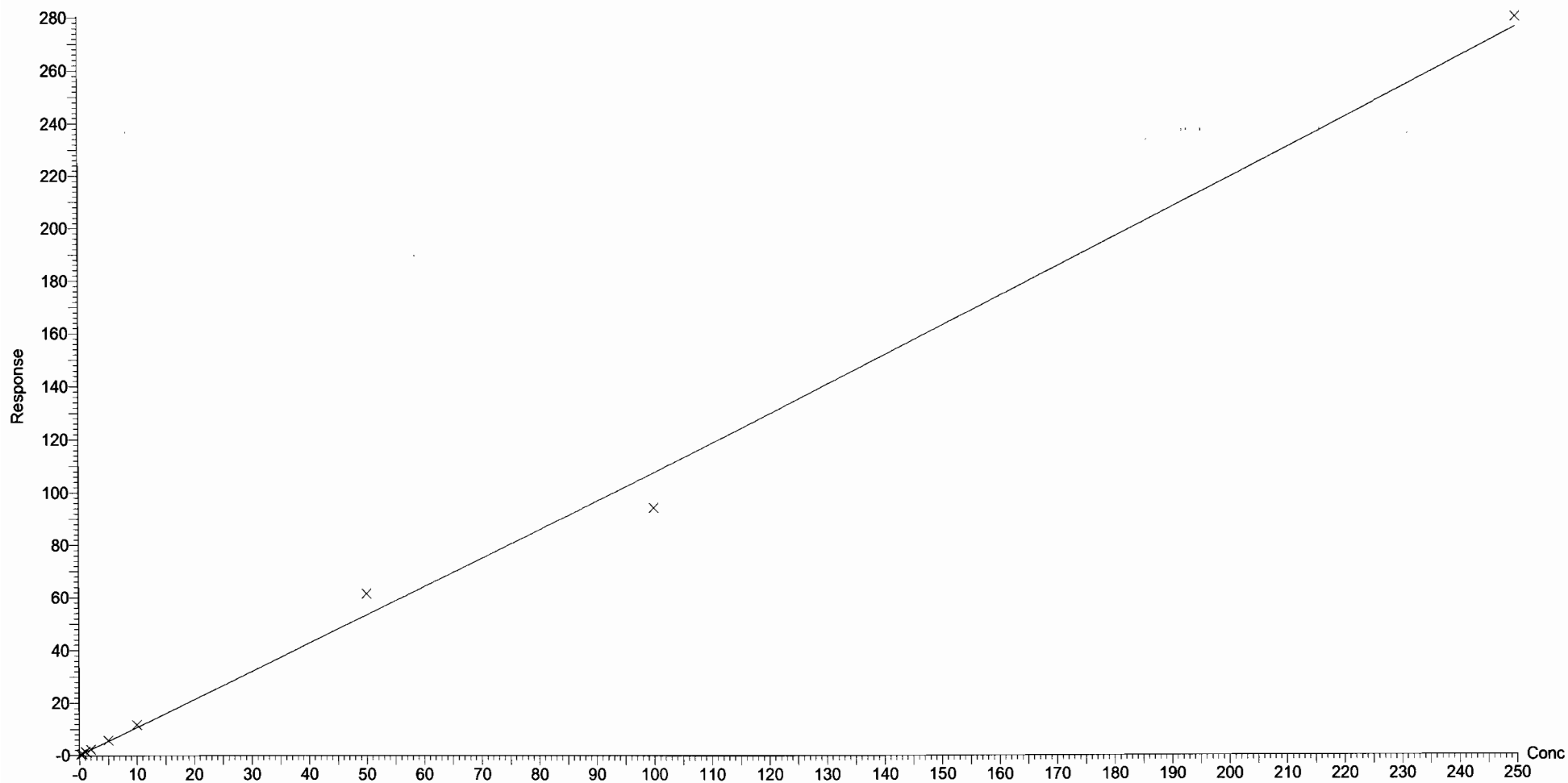
Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.993324$

Calibration curve: $0.000198828 * x^2 + 1.05686 * x + 0.0813851$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

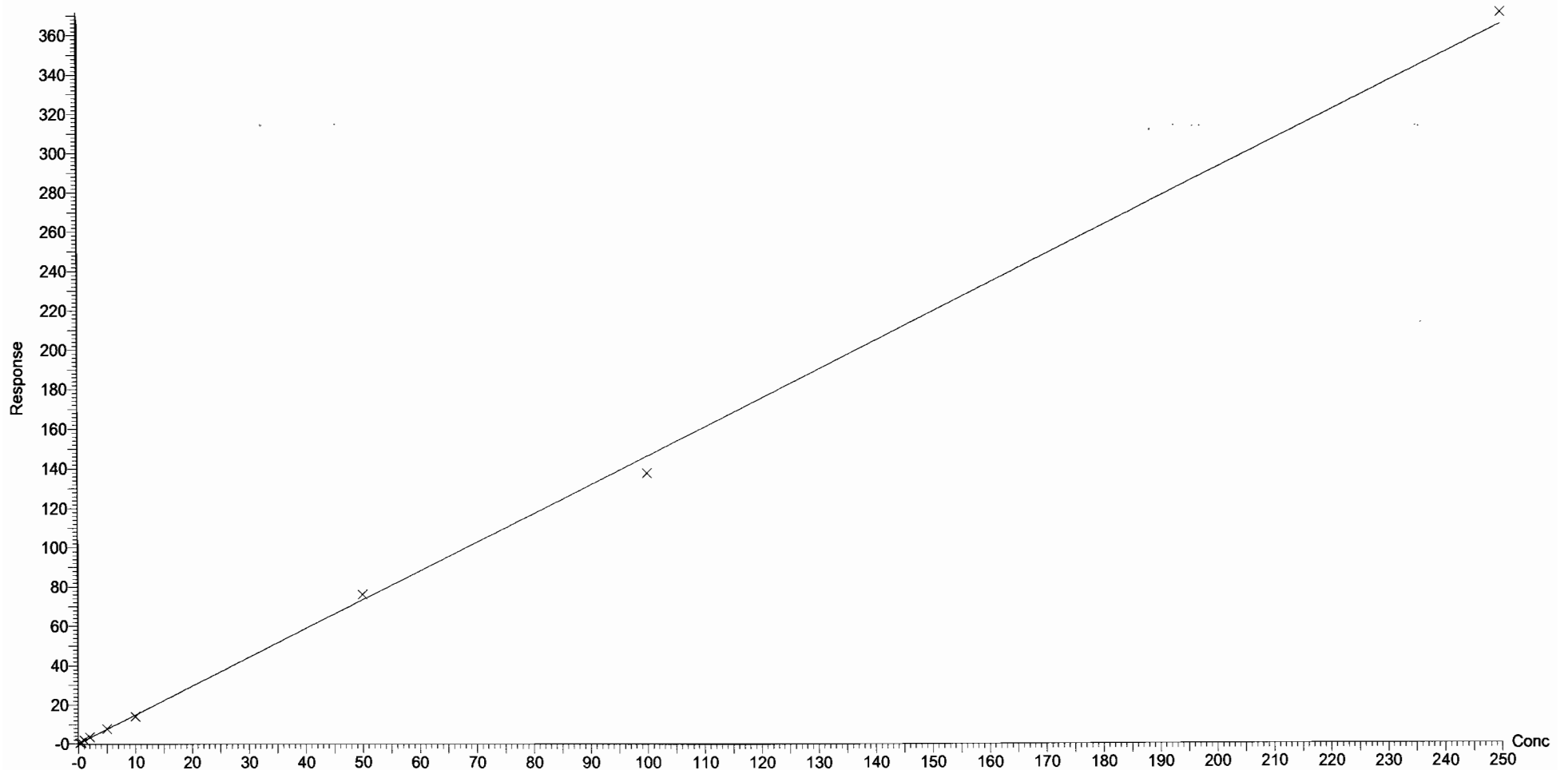


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

Compound name: PFDA
Correlation coefficient: $r = 0.999281$, $r^2 = 0.998563$
Calibration curve: $1.46225 * x + 0.207419$
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

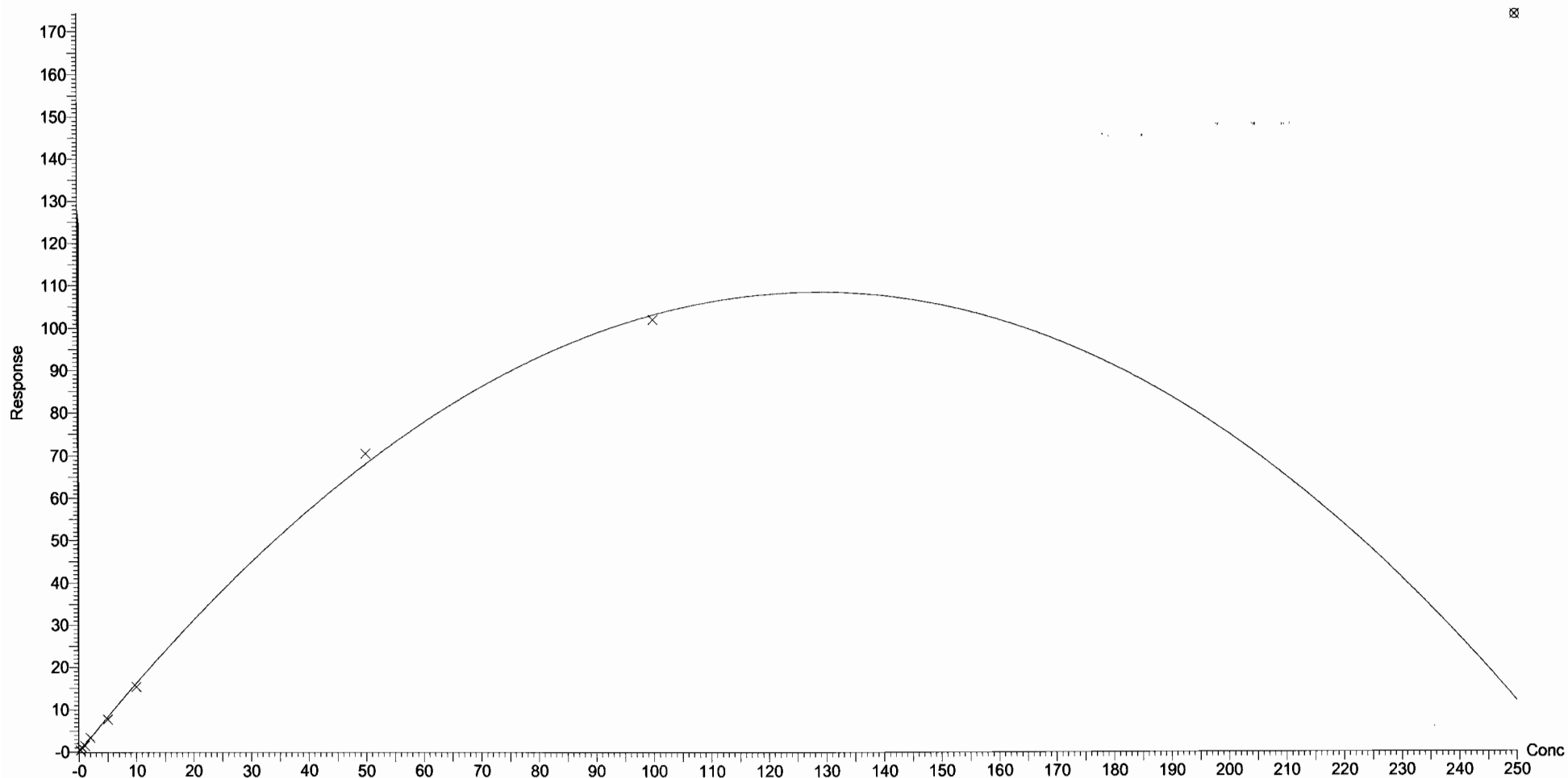
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.998406$

Calibration curve: $-0.00656321 * x^2 + 1.68851 * x + 0.00415304$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

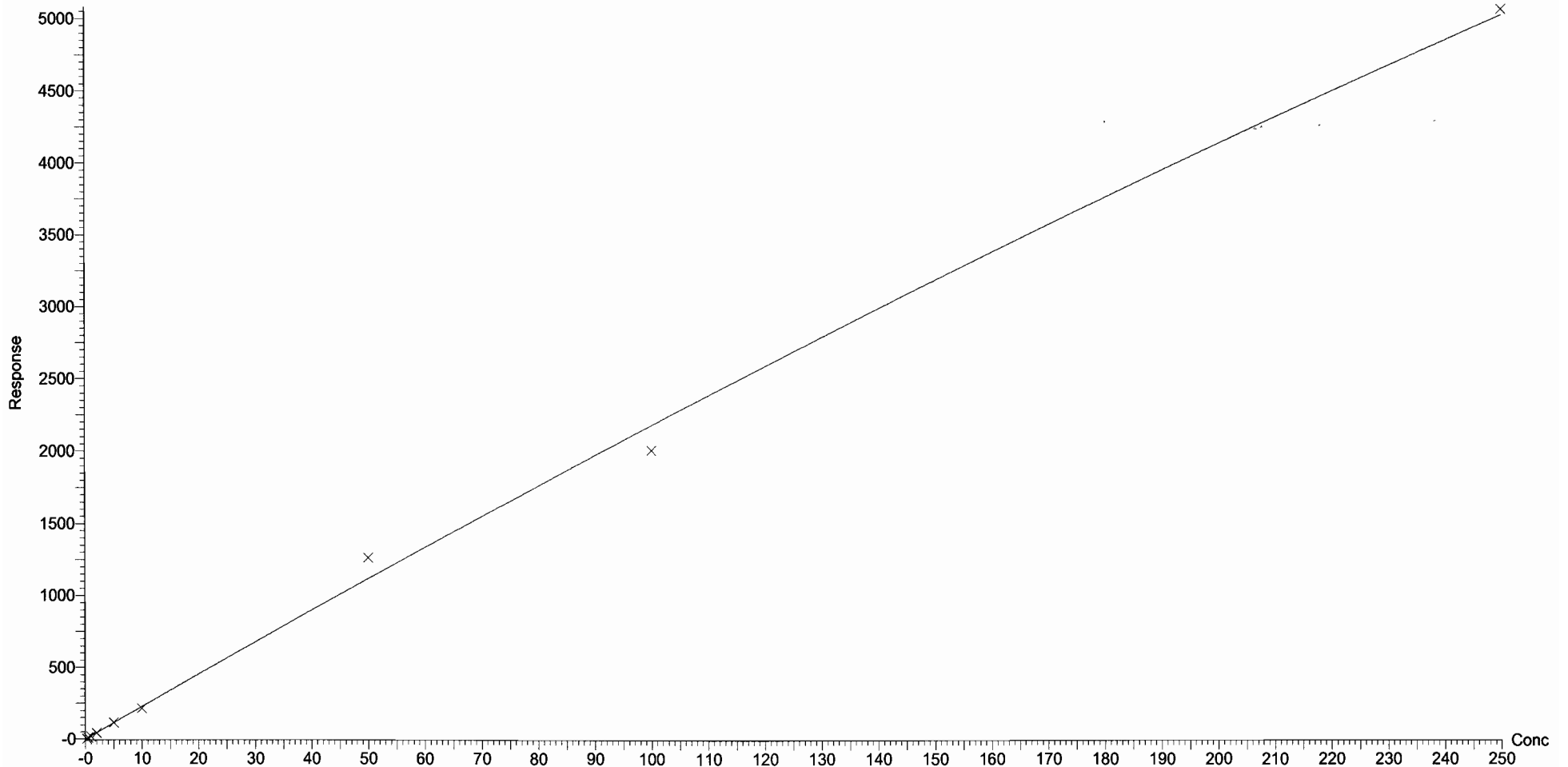
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.995836$

Calibration curve: $-0.0112437 * x^2 + 22.9744 * x + -0.911341$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

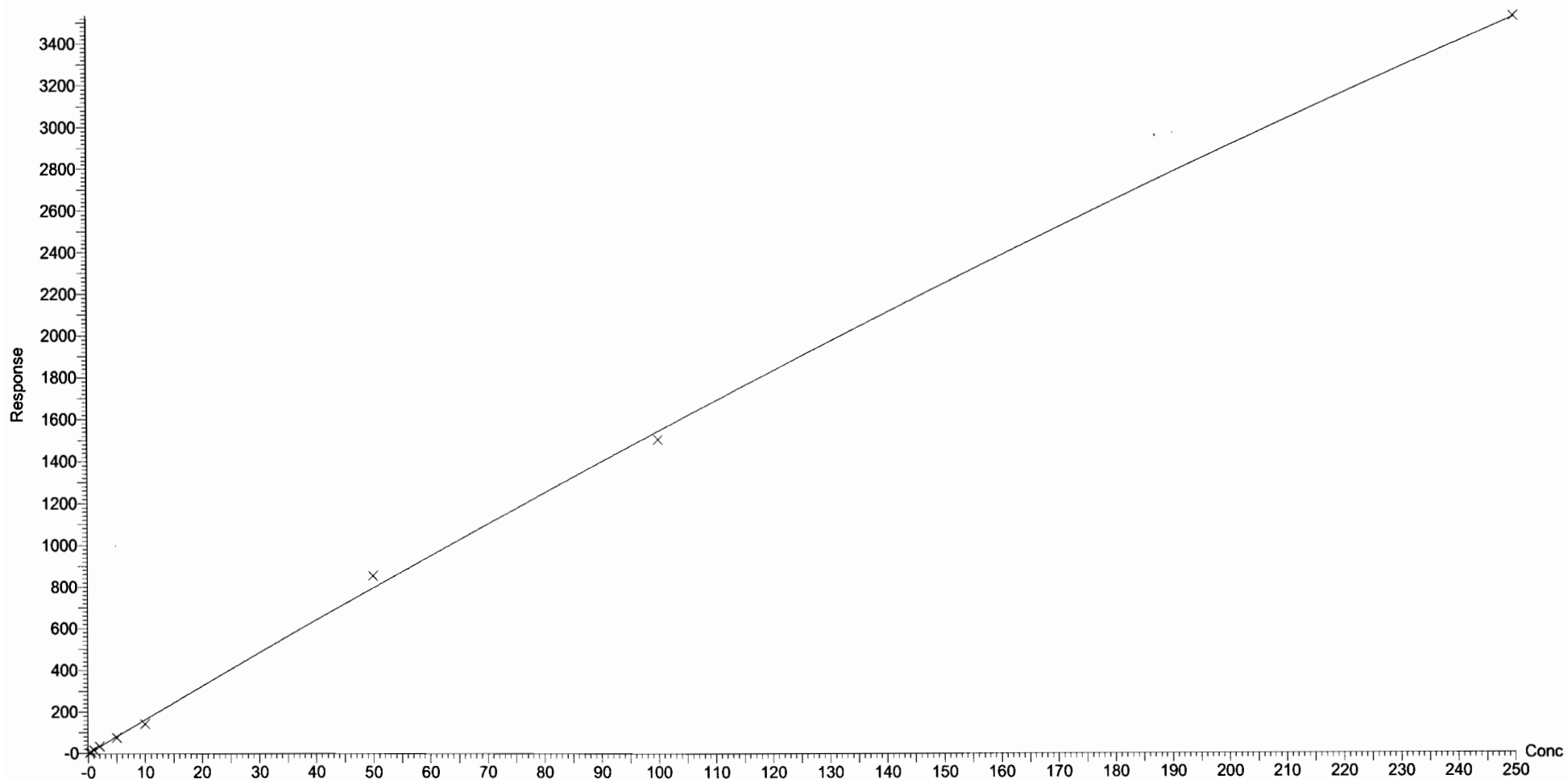
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.998534$

Calibration curve: $-0.00890763 * x^2 + 16.3453 * x + -0.684366$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

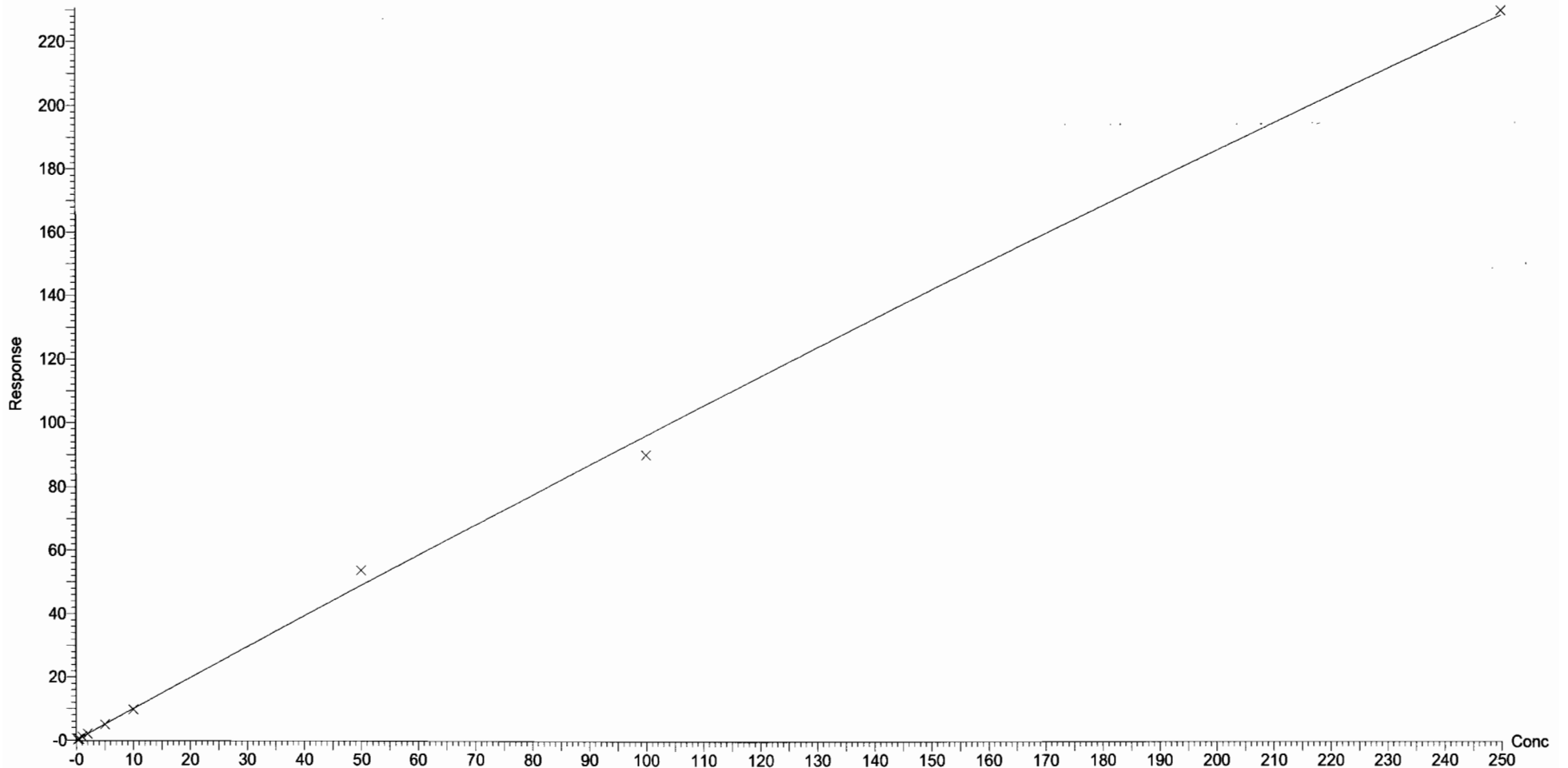


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

Compound name: PFUnA
Coefficient of Determination: $R^2 = 0.997588$
Calibration curve: $-0.000312159 * x^2 + 0.993899 * x + 0.074875$
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

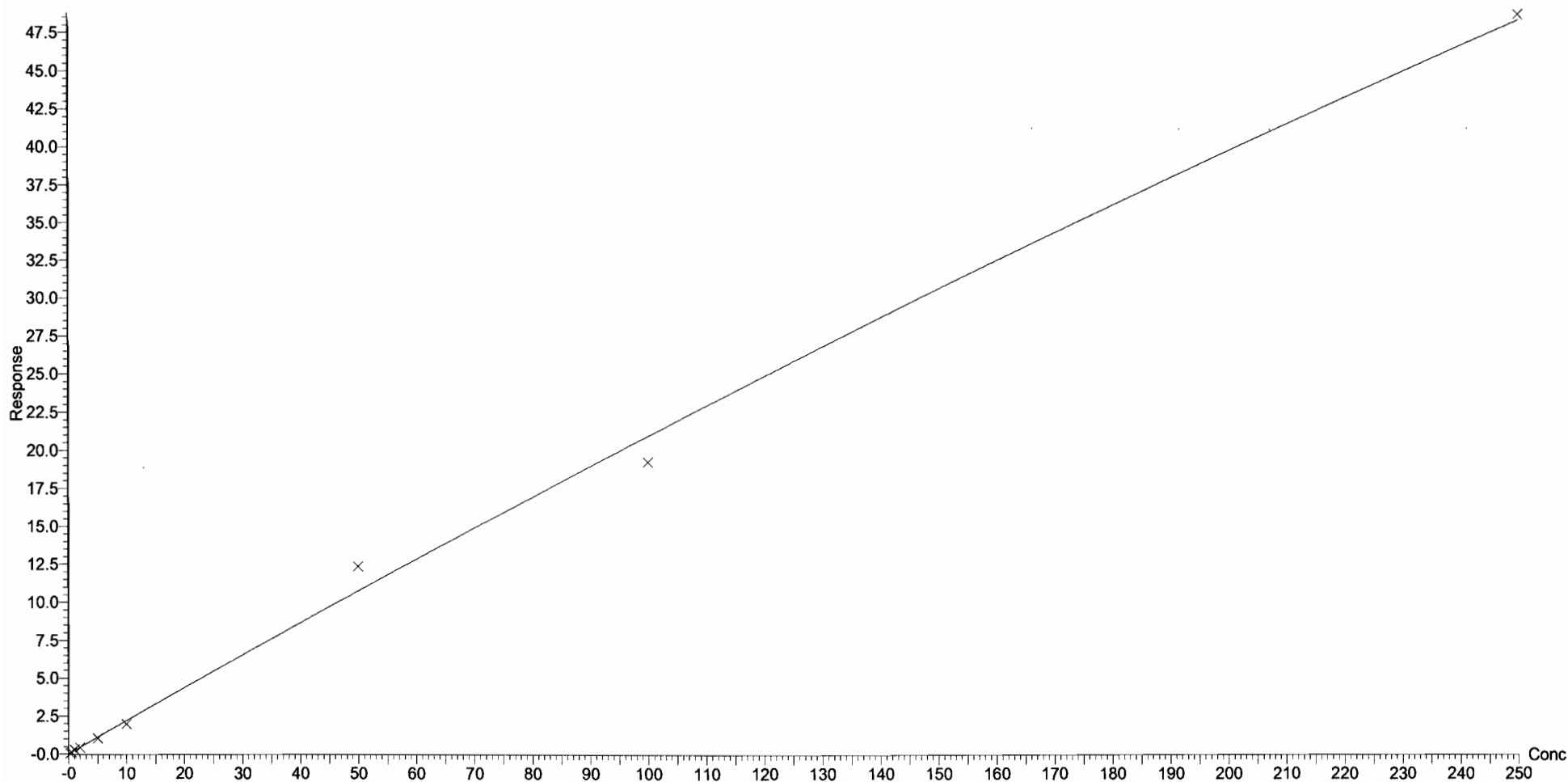
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.994527$

Calibration curve: $-0.000108001 * x^2 + 0.220551 * x + 0.00739669$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

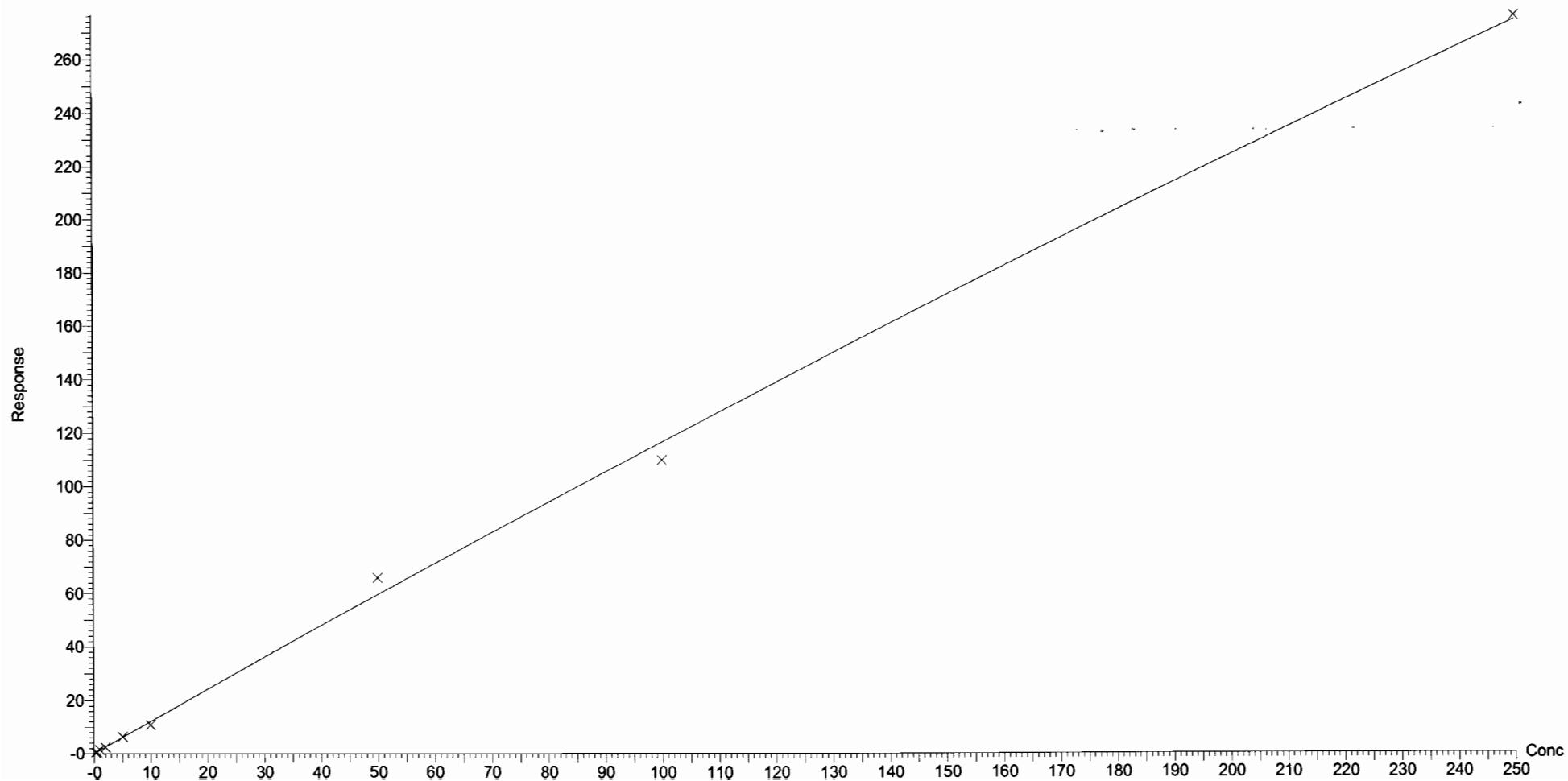


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

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Compound name: PFDoA
Coefficient of Determination: $R^2 = 0.997237$
Calibration curve: $-0.000451691 * x^2 + 1.21253 * x + 0.0242095$
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

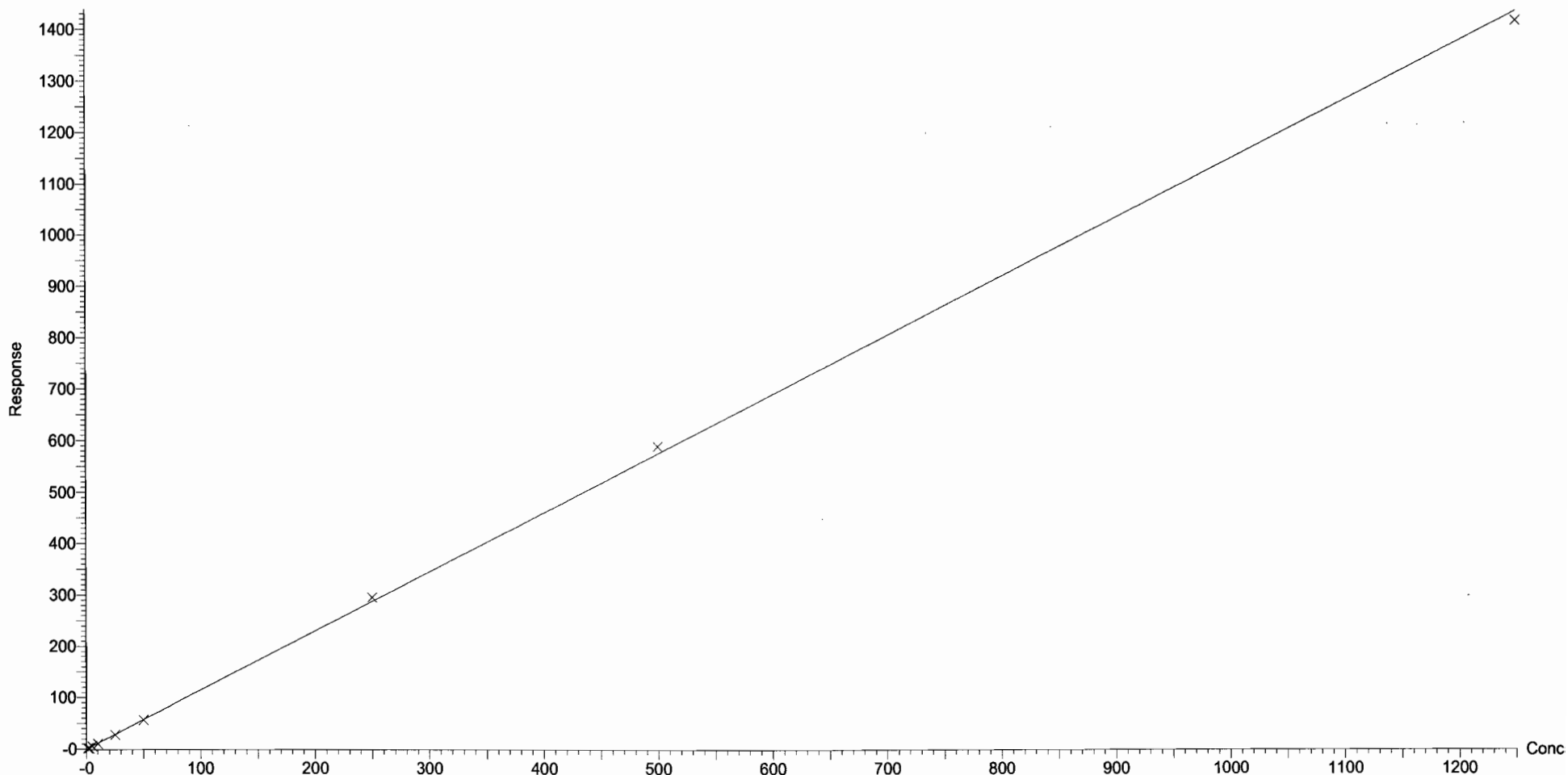
Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999755$, $r^2 = 0.999510$

Calibration curve: $1.15061 * x + -0.0988604$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

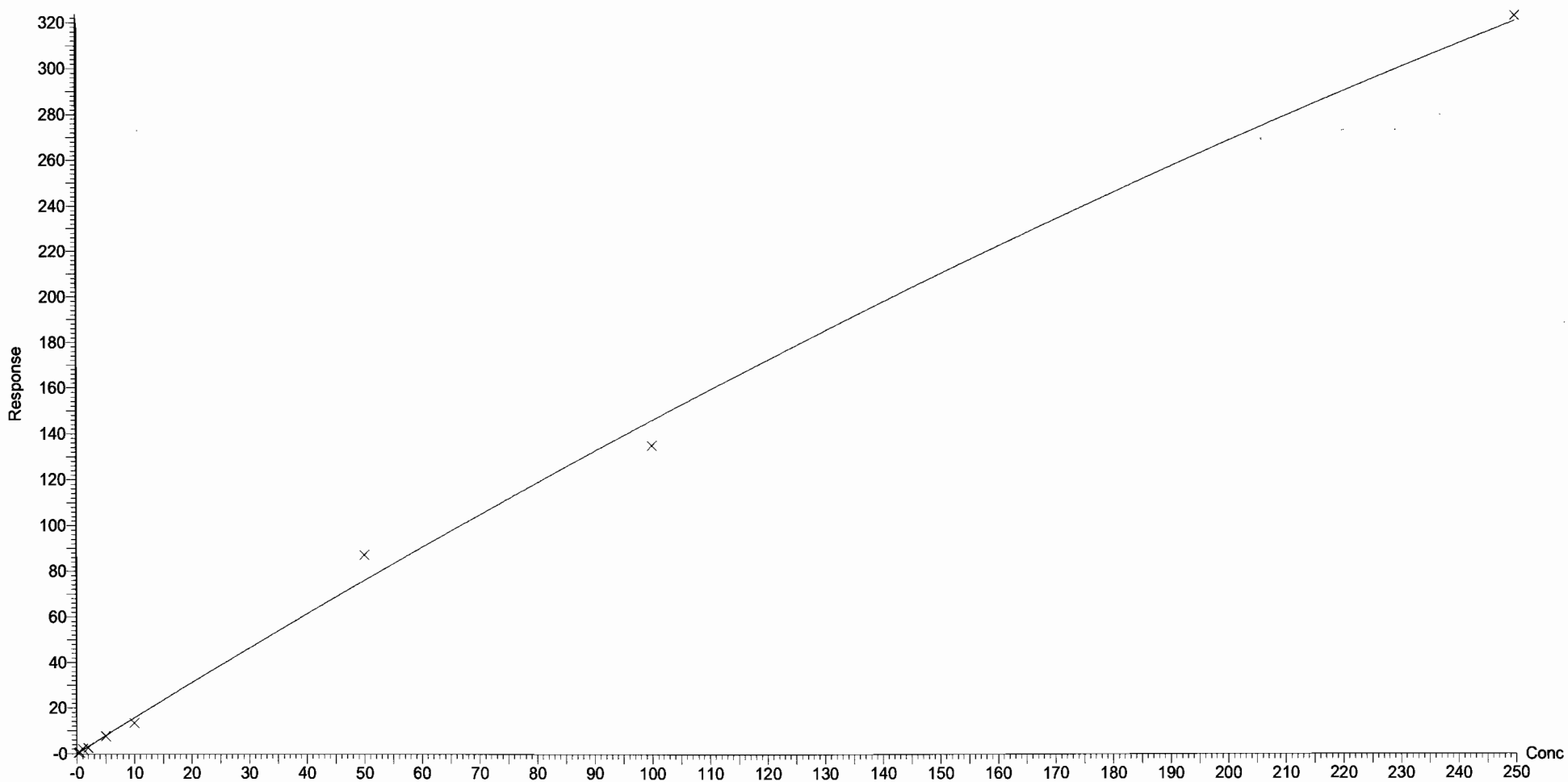
Compound name: PFTrDA

Coefficient of Determination: $R^2 = 0.993928$

Calibration curve: $-0.0011688 * x^2 + 1.57785 * x + -0.0303569$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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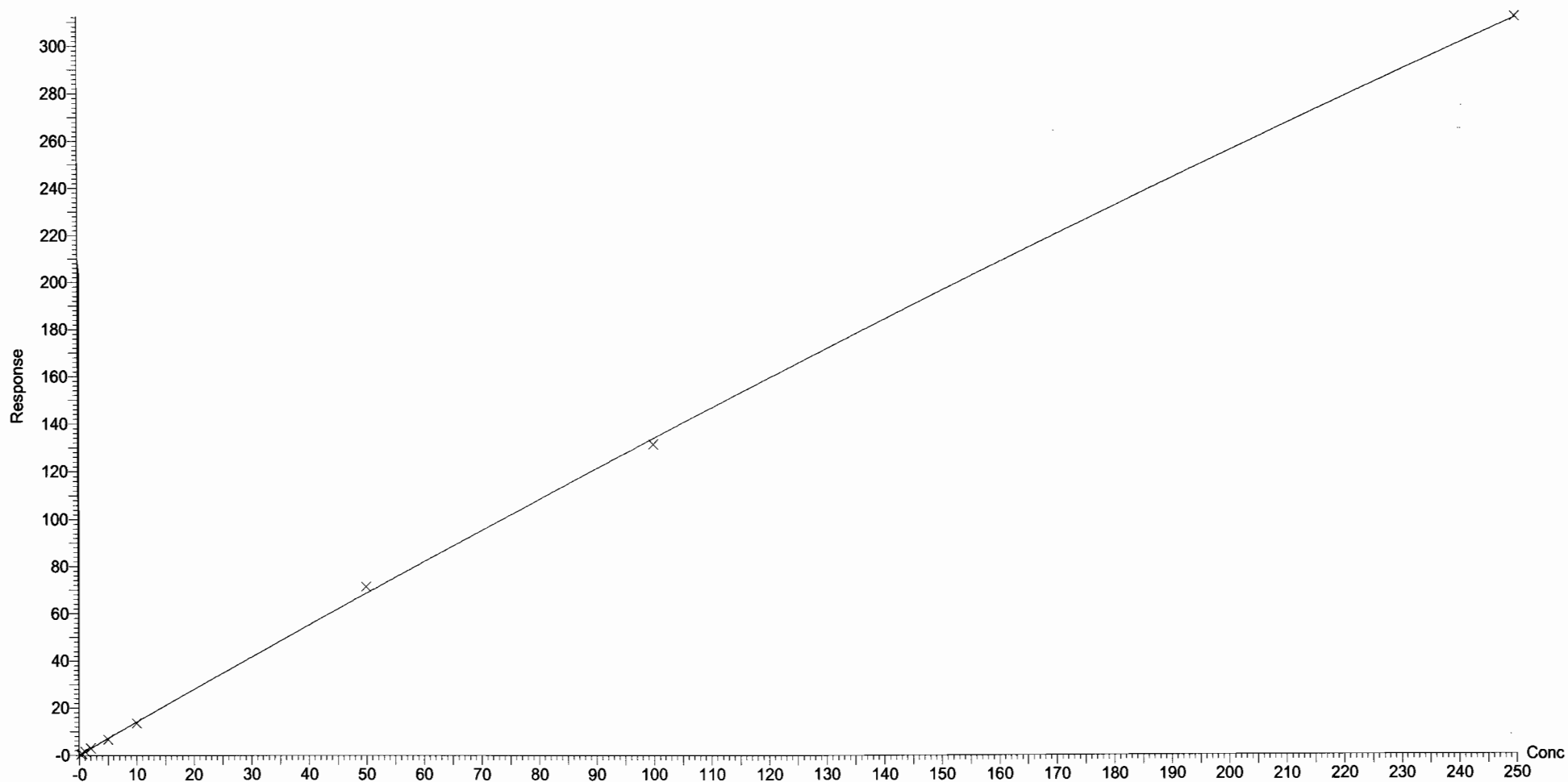
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999507$

Calibration curve: $-0.000612866 * x^2 + 1.40069 * x - 0.00357815$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

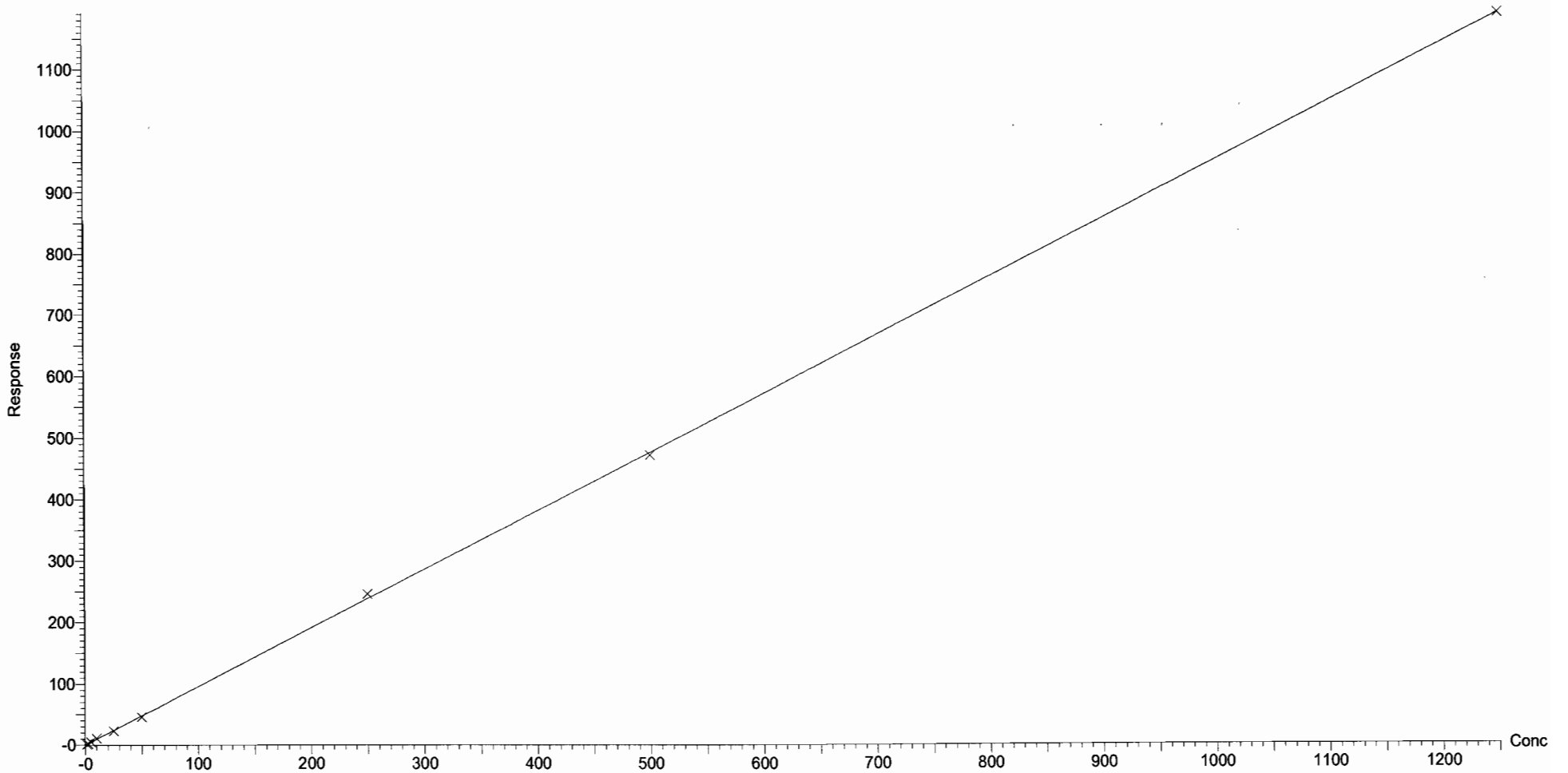


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:12:26 Pacific Daylight Time

Compound name: N-EtFOSA
Correlation coefficient: $r = 0.999839$, $r^2 = 0.999679$
Calibration curve: $0.95299 * x + -0.0869952$
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

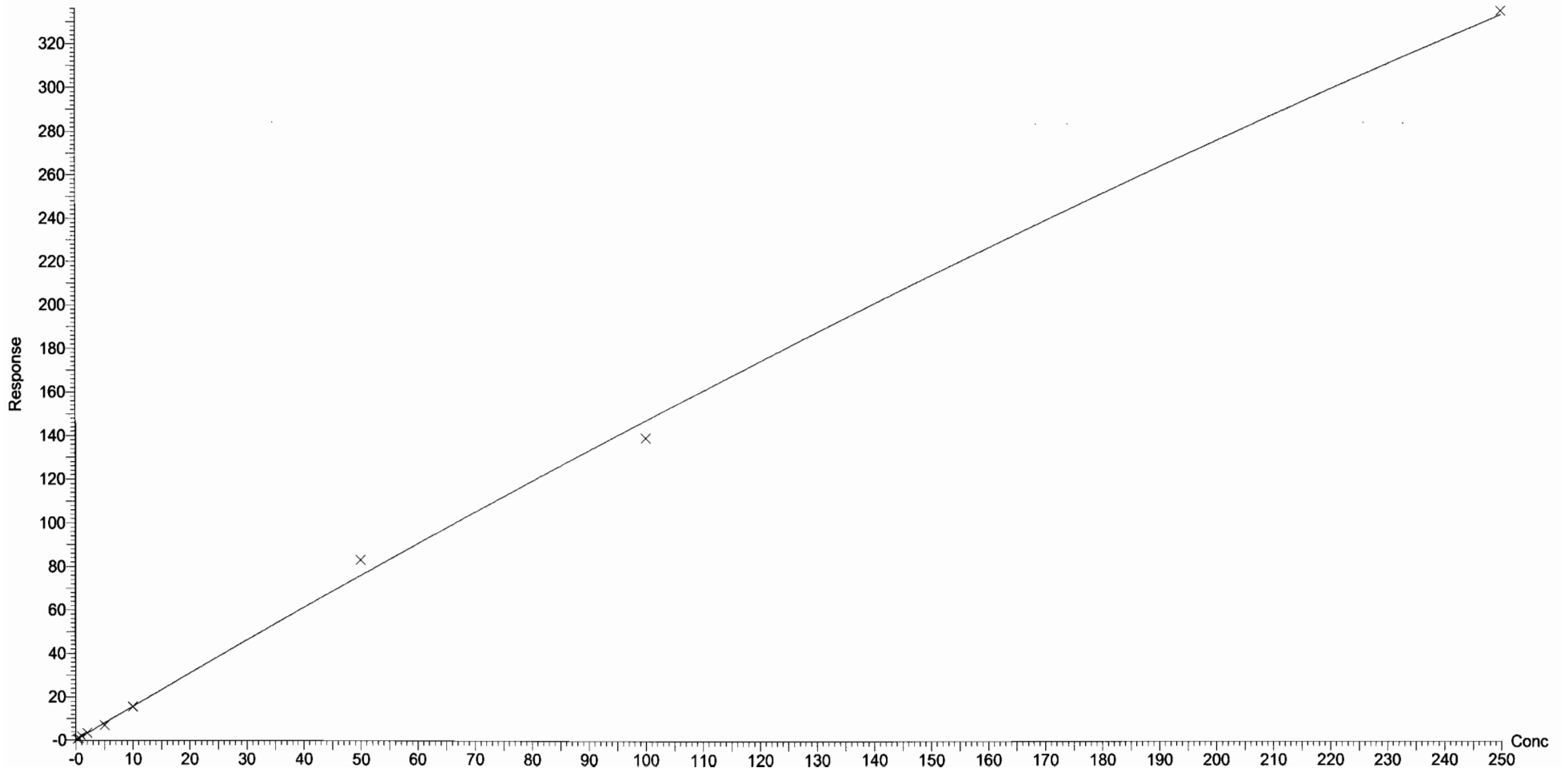


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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Compound name: PFHxDA
Coefficient of Determination: $R^2 = 0.997640$
Calibration curve: $-0.000900659 * x^2 + 1.56188 * x + 0.176879$
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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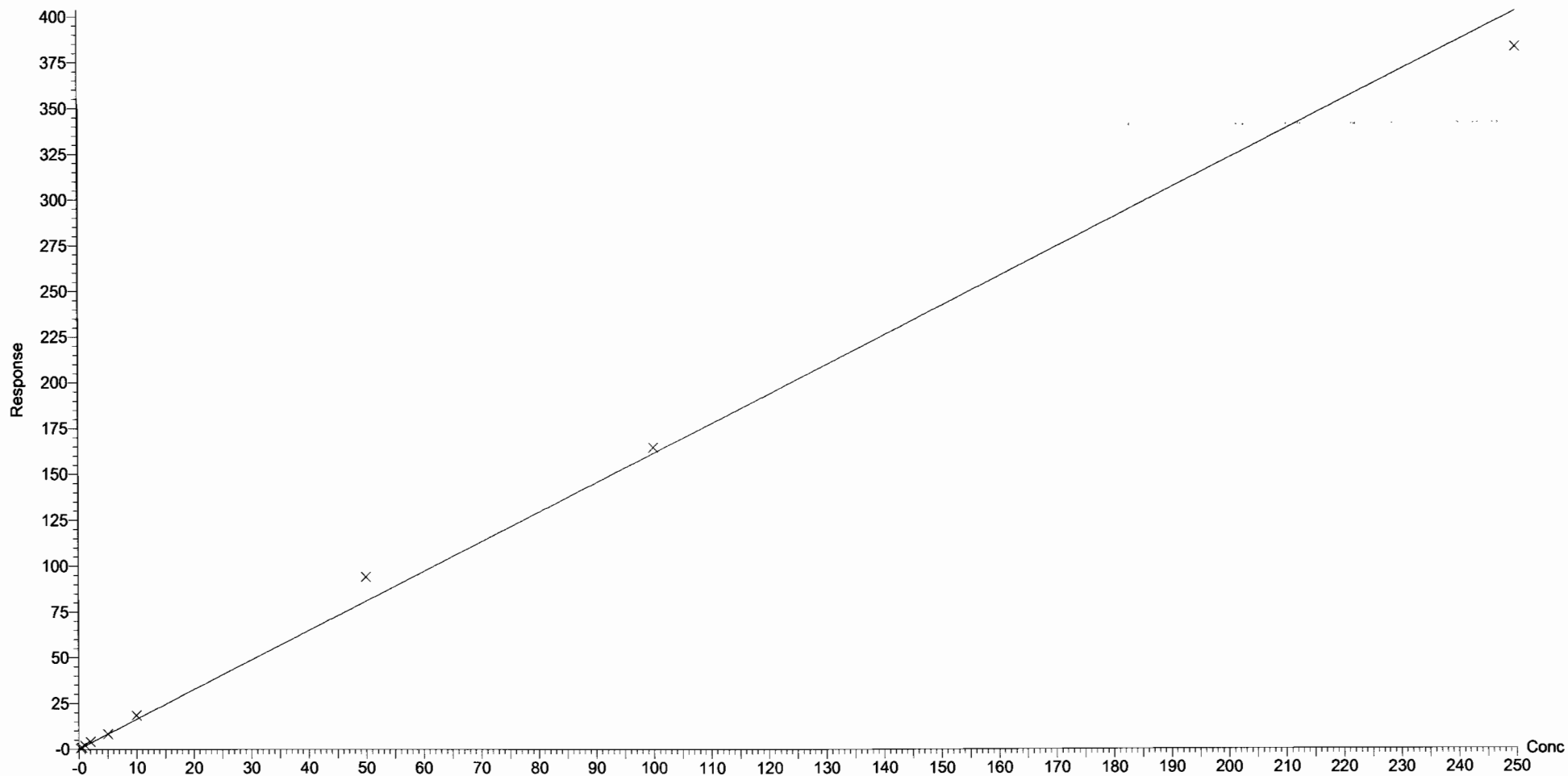
Compound name: PFODA

Correlation coefficient: $r = 0.997117$, $r^2 = 0.994243$

Calibration curve: $1.6128 * x + 0.18154$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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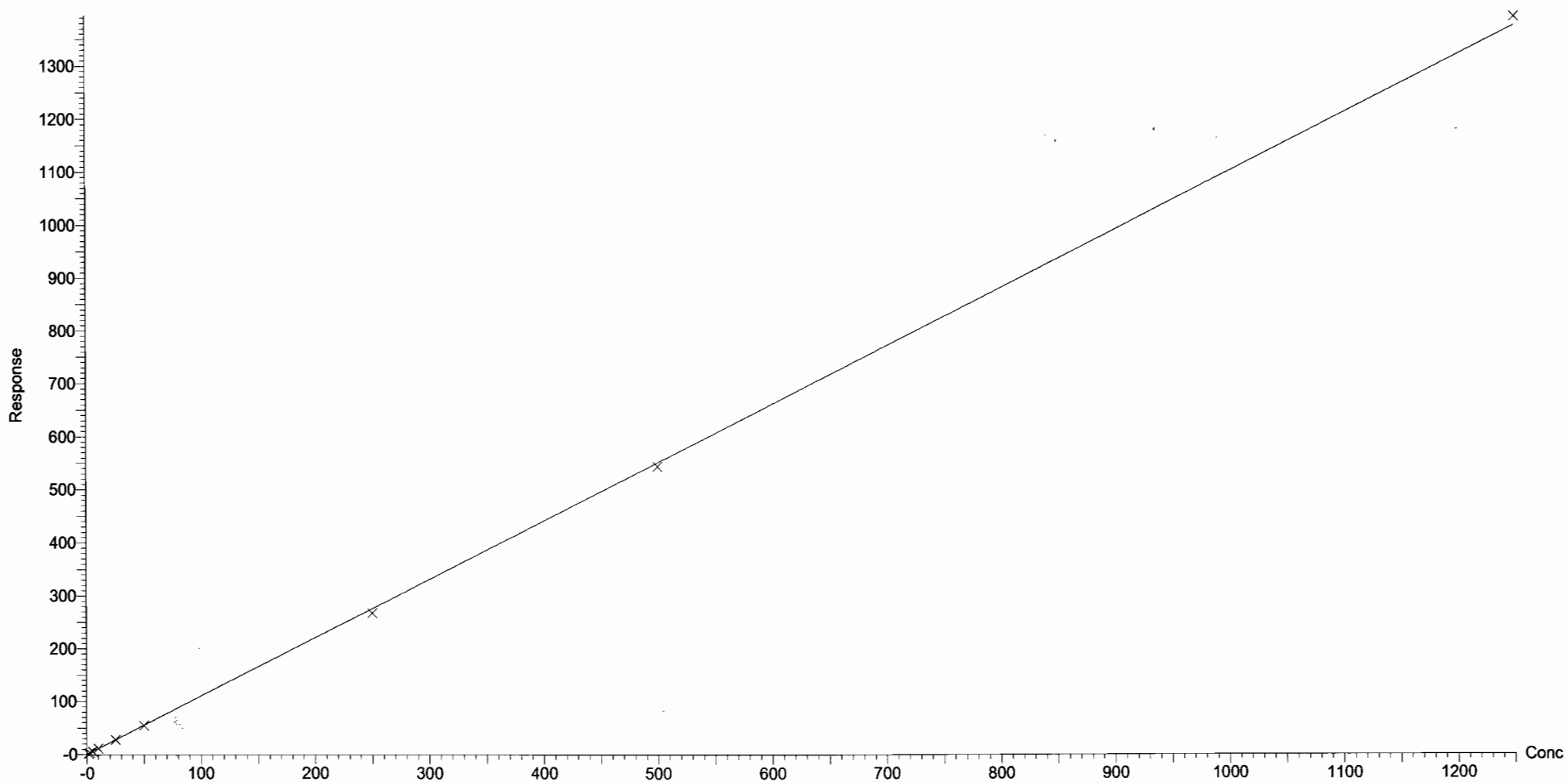
Compound name: N-MeFOSE

Correlation coefficient: $r = 0.999877$, $r^2 = 0.999753$

Calibration curve: $1.10249 * x + 0.0738679$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

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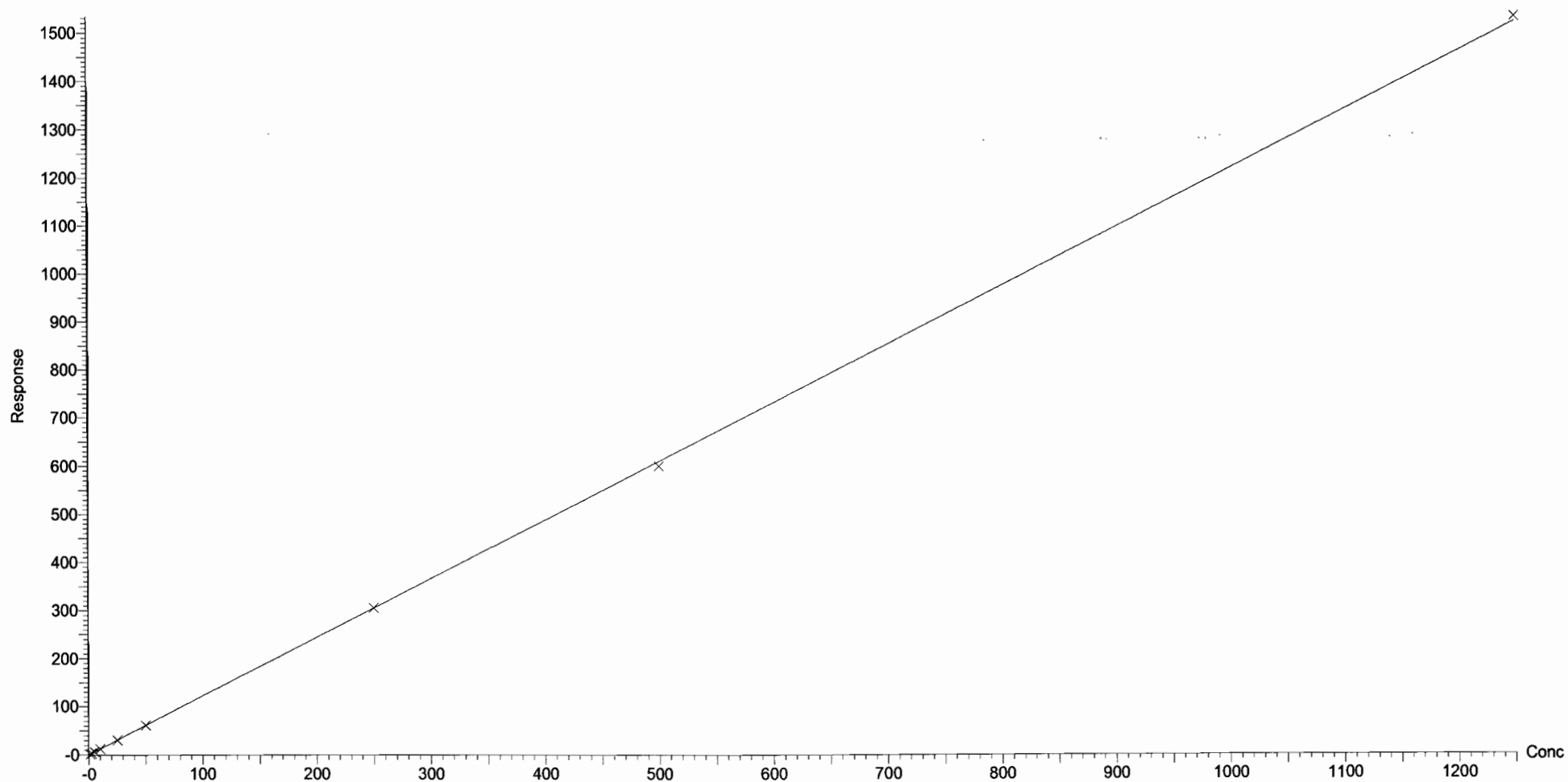
Compound name: N-EtFOSE

Correlation coefficient: $r = 0.999949$, $r^2 = 0.999899$

Calibration curve: $1.21879 * x + 0.083075$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

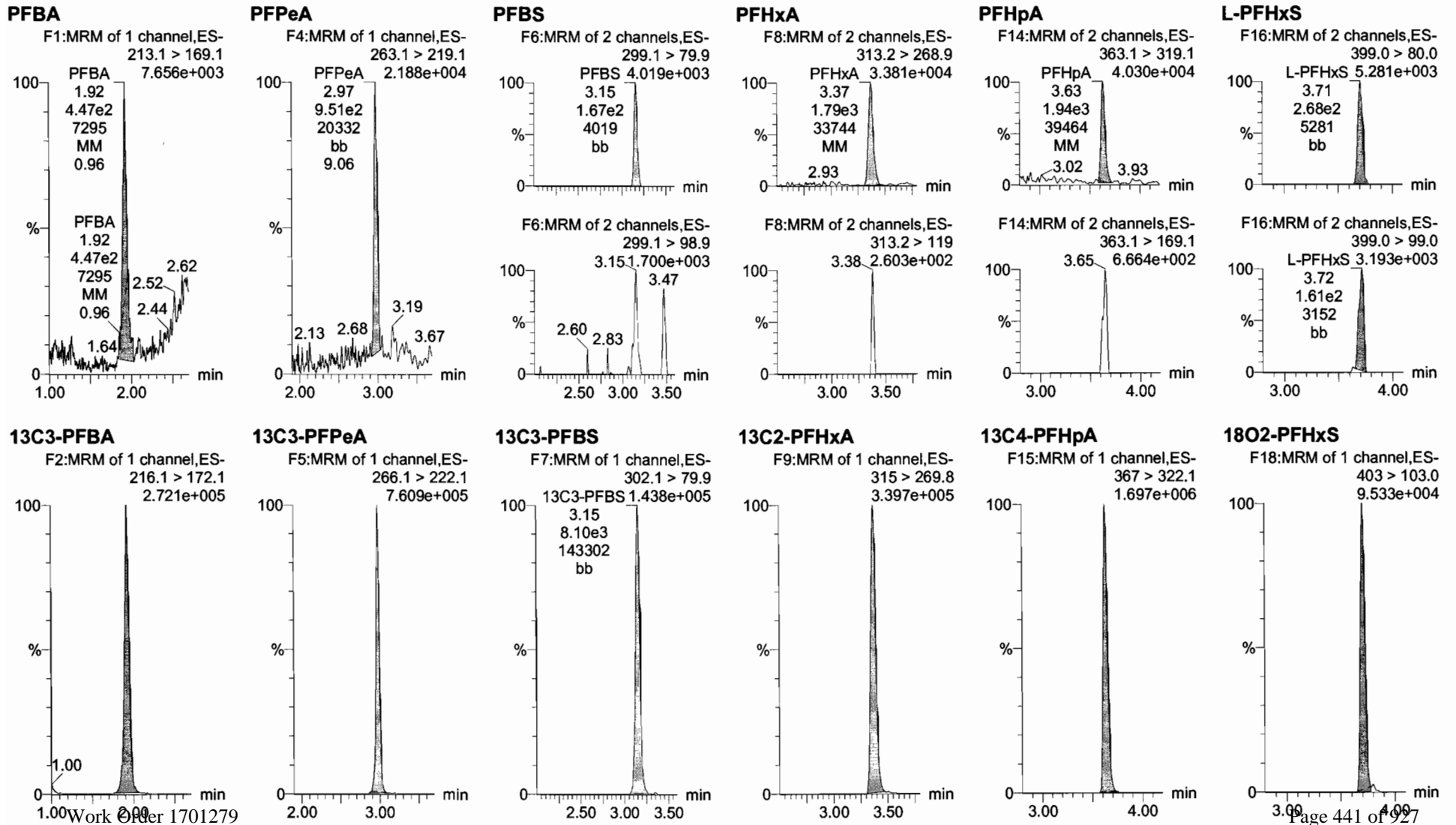


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: 26 Sep 2017 14:00:04

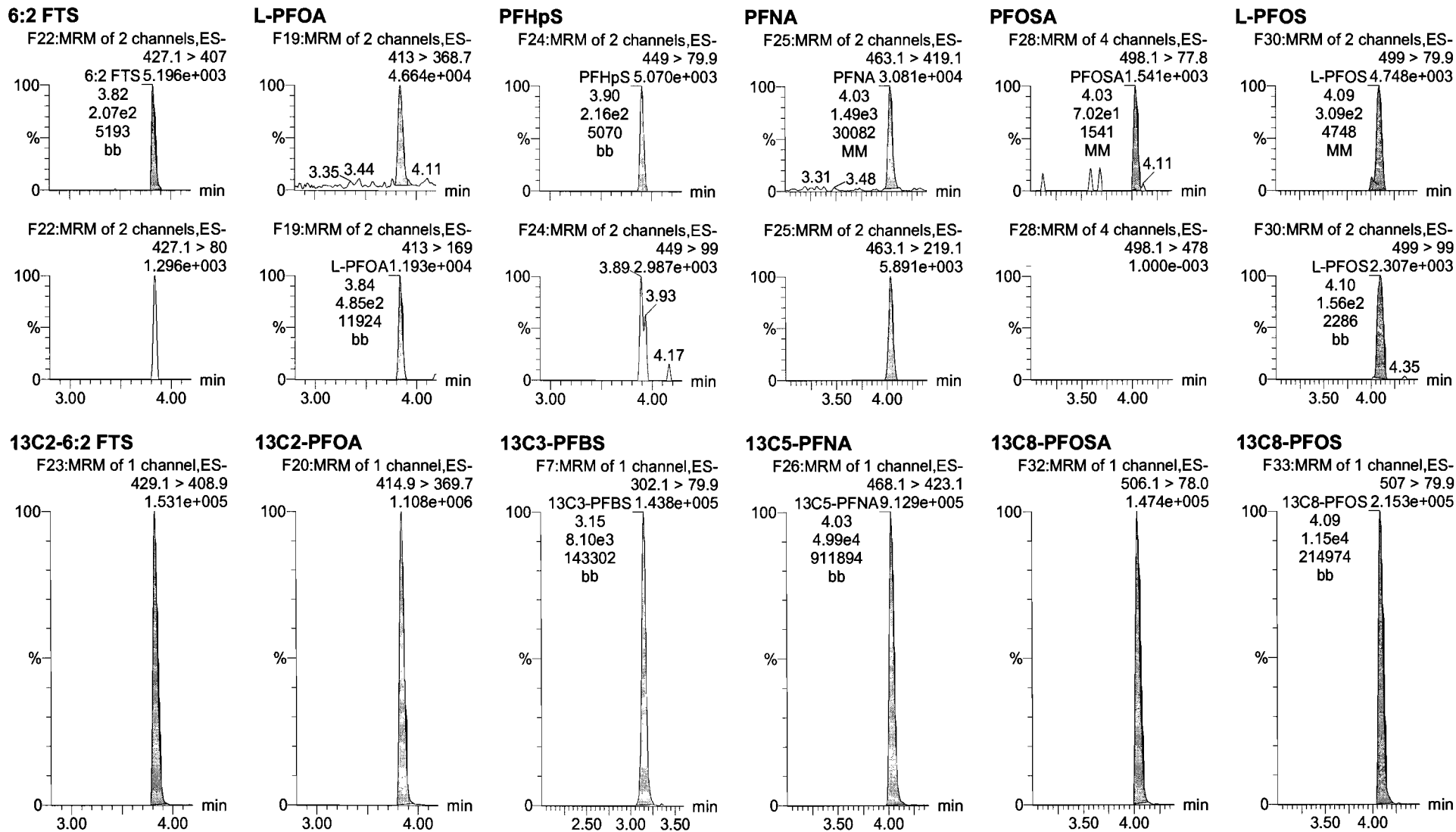
Name: 170926M1_6, Date: 26-Sep-2017, Time: 09:34:33, ID: ST170926M1-1 PFC CS-2 1712504, Description: PFC CS-2 1712504



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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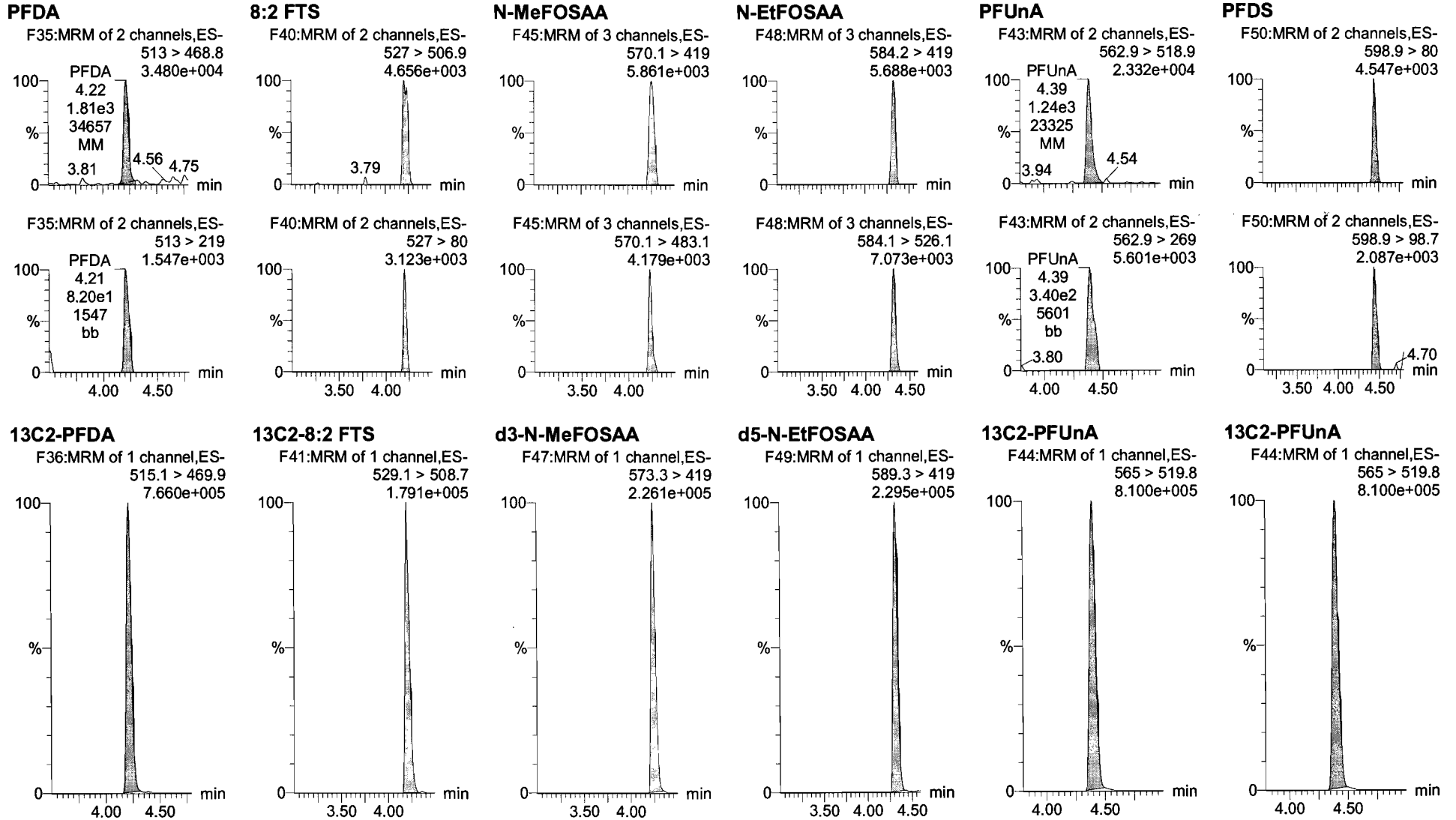
Name: 170926M1_6, Date: 26-Sep-2017, Time: 09:34:33, ID: ST170926M1-1 PFC CS-2 17I2504, Description: PFC CS-2 17I2504



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_6, Date: 26-Sep-2017, Time: 09:34:33, ID: ST170926M1-1 PFC CS-2 1712504, Description: PFC CS-2 1712504

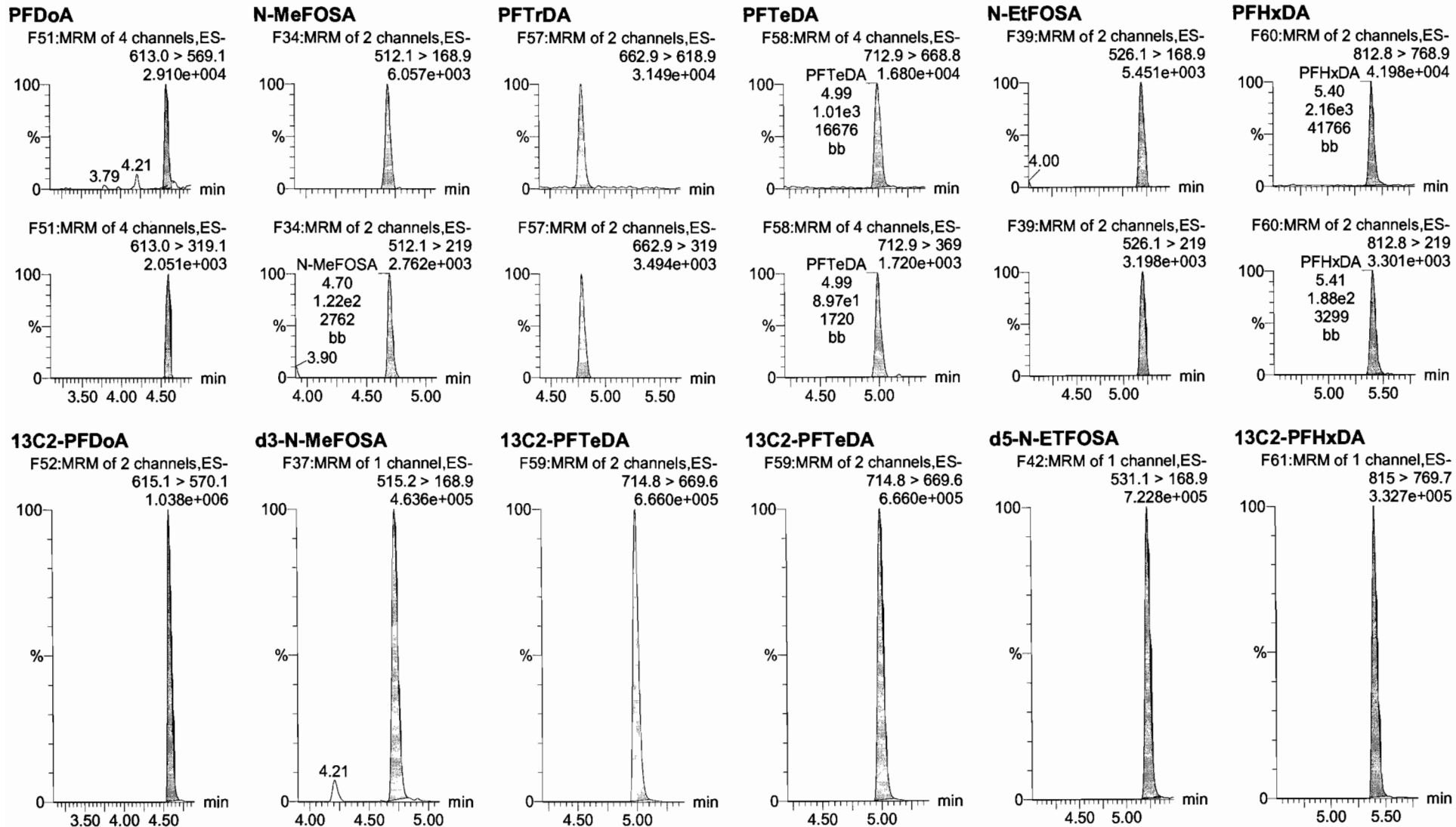


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_6, Date: 26-Sep-2017, Time: 09:34:33, ID: ST170926M1-1 PFC CS-2 17I2504, Description: PFC CS-2 17I2504

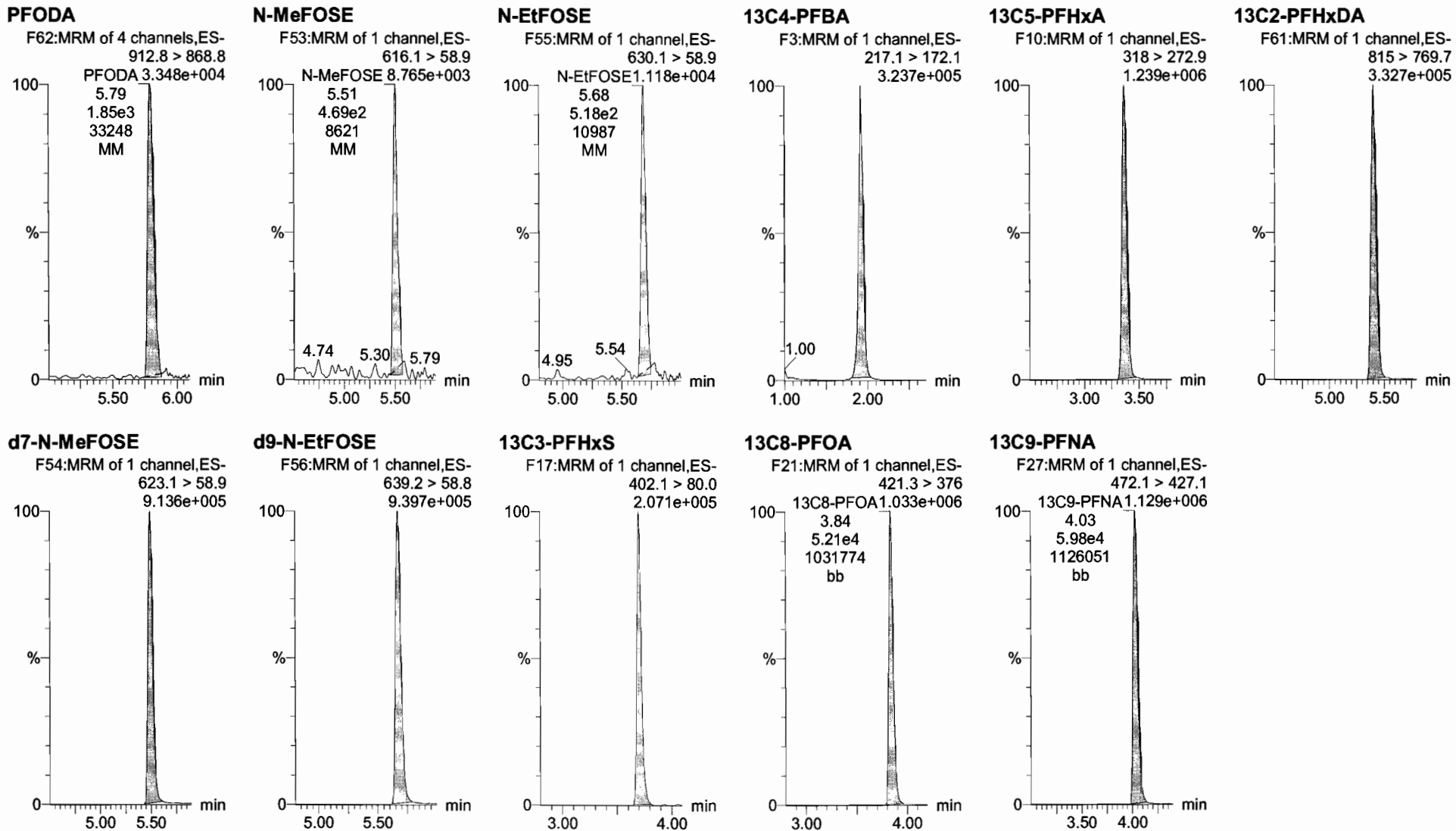


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_6, Date: 26-Sep-2017, Time: 09:34:33, ID: ST170926M1-1 PFC CS-2 17I2504, Description: PFC CS-2 17I2504



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

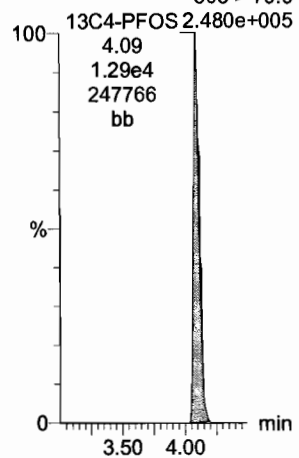
Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

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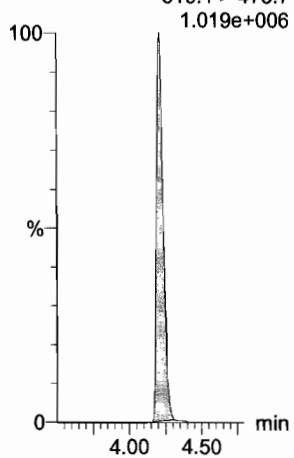
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9



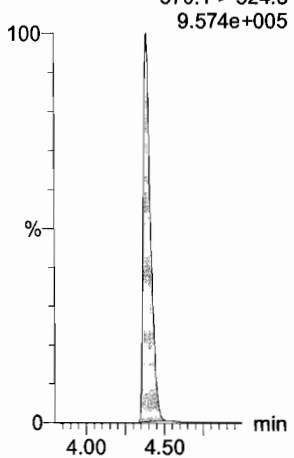
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7



13C7-PFUnA

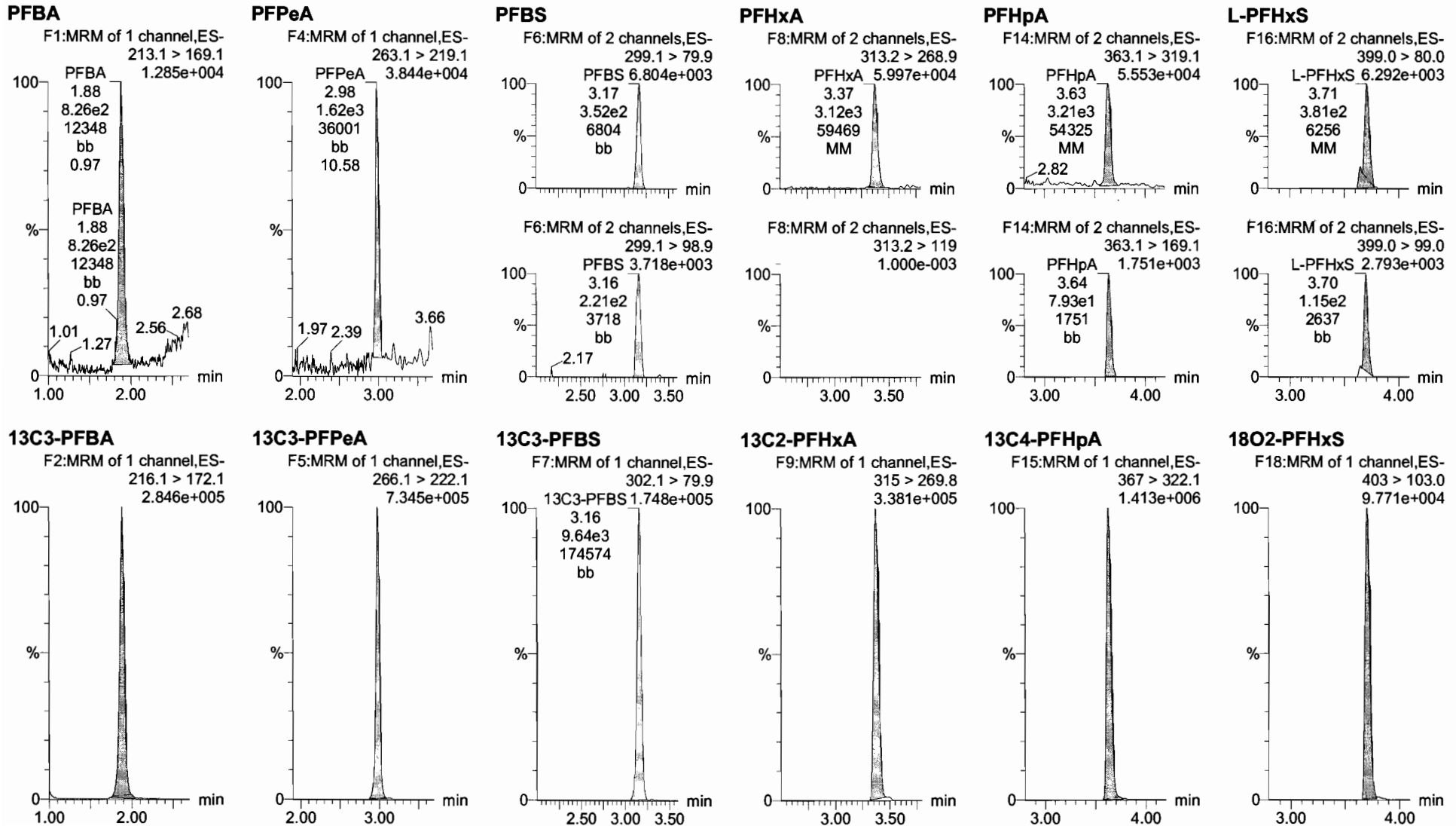
F46:MRM of 1 channel,ES-
570.1 > 524.8



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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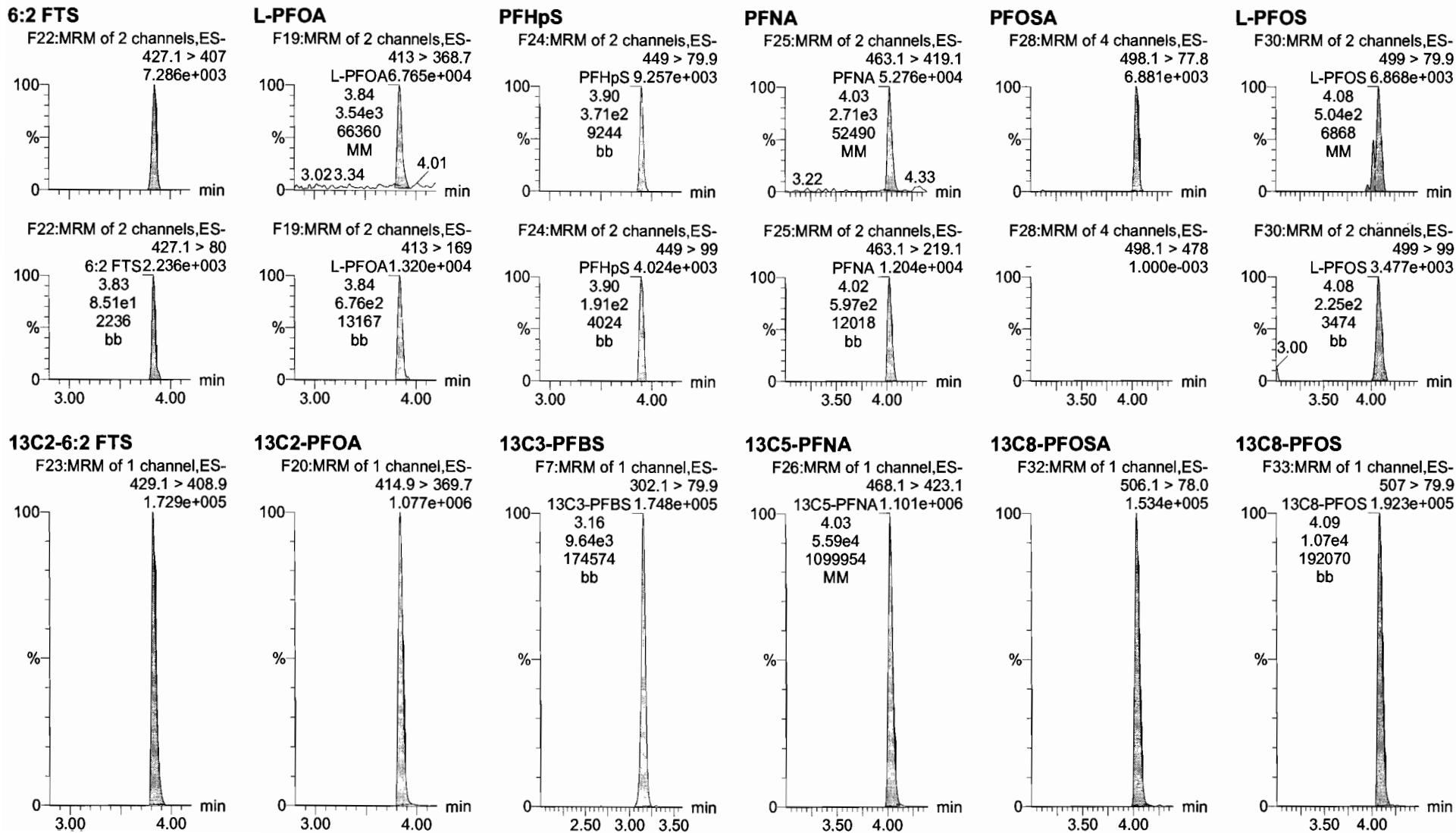
Name: 170926M1_7, Date: 26-Sep-2017, Time: 09:56:46, ID: ST170926M1-2 PFC CS-1 1712505, Description: PFC CS-1 1712505



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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Name: 170926M1_7, Date: 26-Sep-2017, Time: 09:56:46, ID: ST170926M1-2 PFC CS-1 1712505, Description: PFC CS-1 1712505

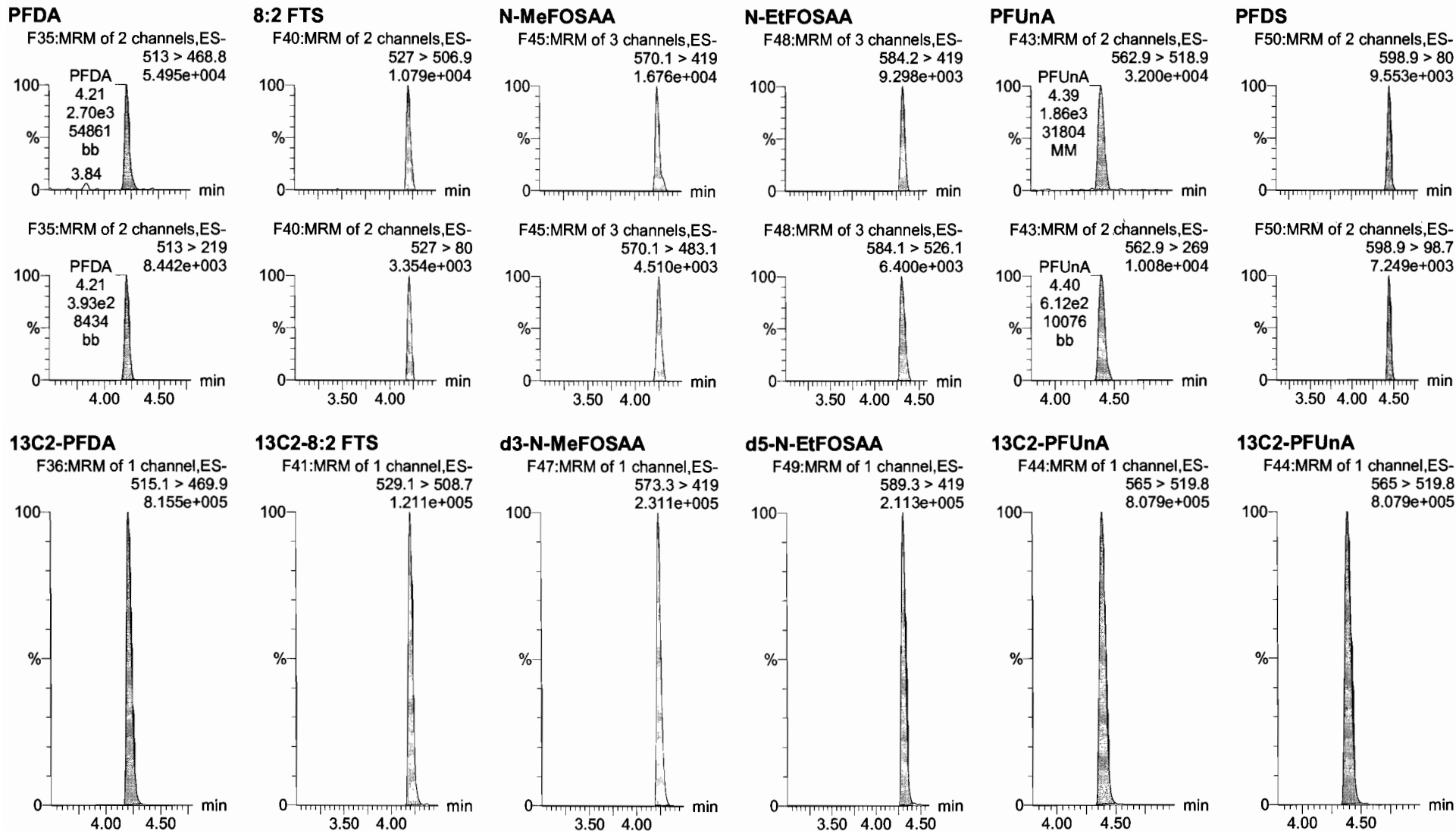


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

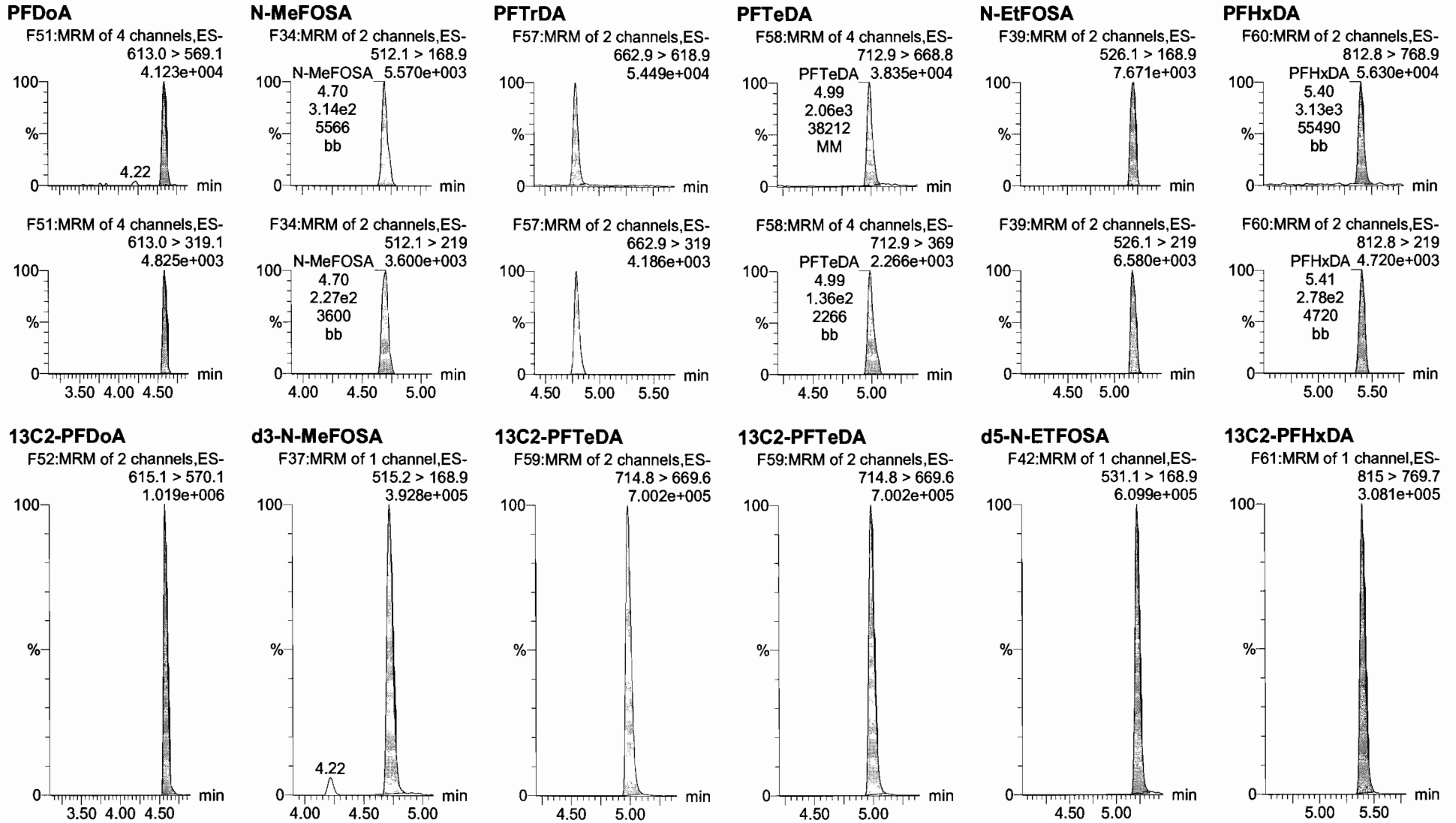
Name: 170926M1_7, Date: 26-Sep-2017, Time: 09:56:46, ID: ST170926M1-2 PFC CS-1 1712505, Description: PFC CS-1 1712505



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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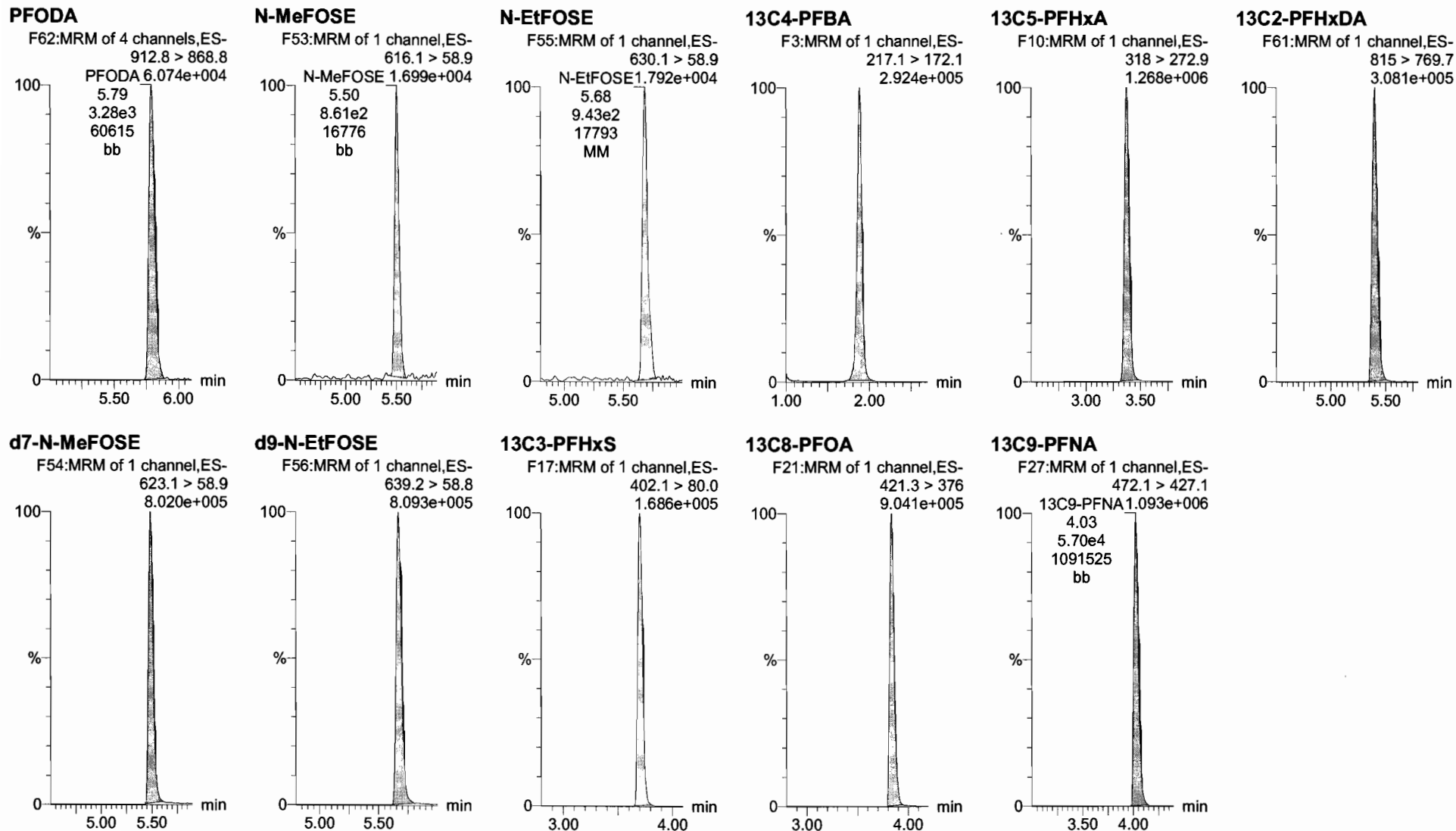
Name: 170926M1_7, Date: 26-Sep-2017, Time: 09:56:46, ID: ST170926M1-2 PFC CS-1 17I2505, Description: PFC CS-1 17I2505



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_7, Date: 26-Sep-2017, Time: 09:56:46, ID: ST170926M1-2 PFC CS-1 1712505, Description: PFC CS-1 1712505



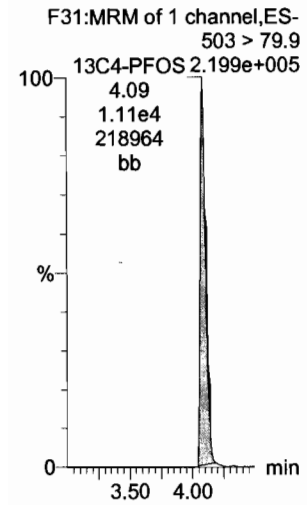
Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

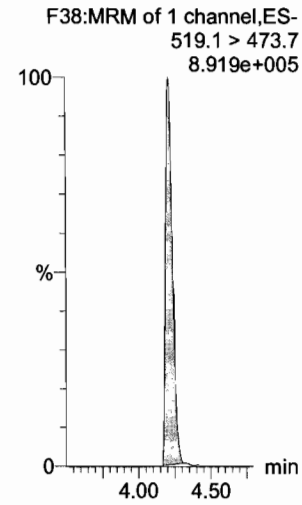
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

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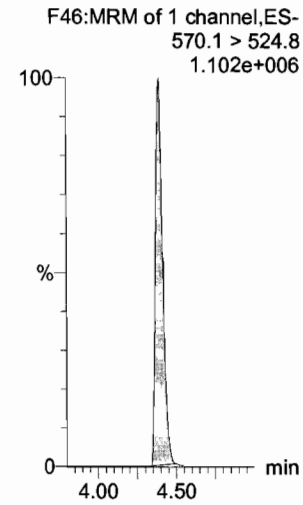
13C4-PFOS



13C6-PFDA



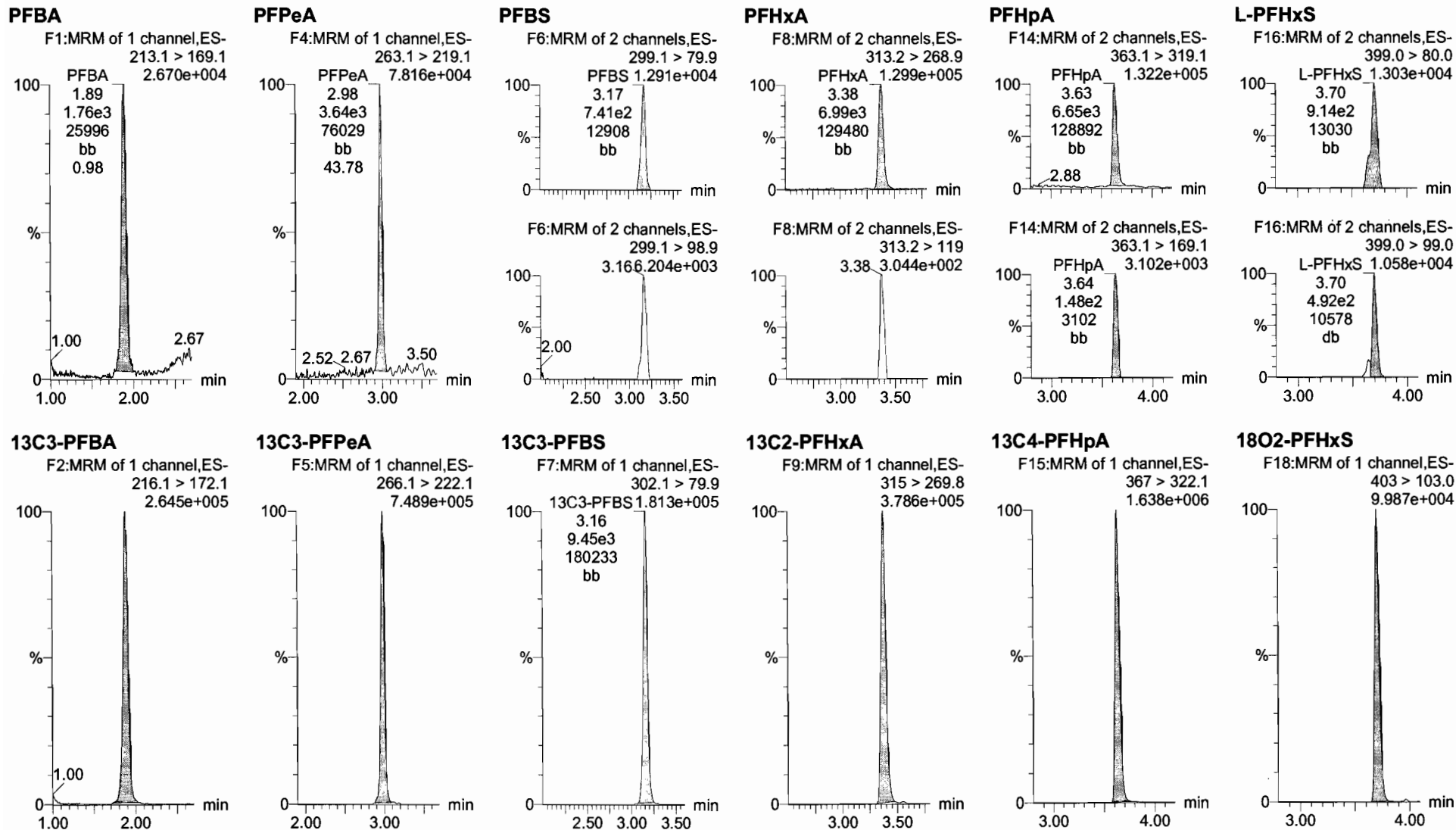
13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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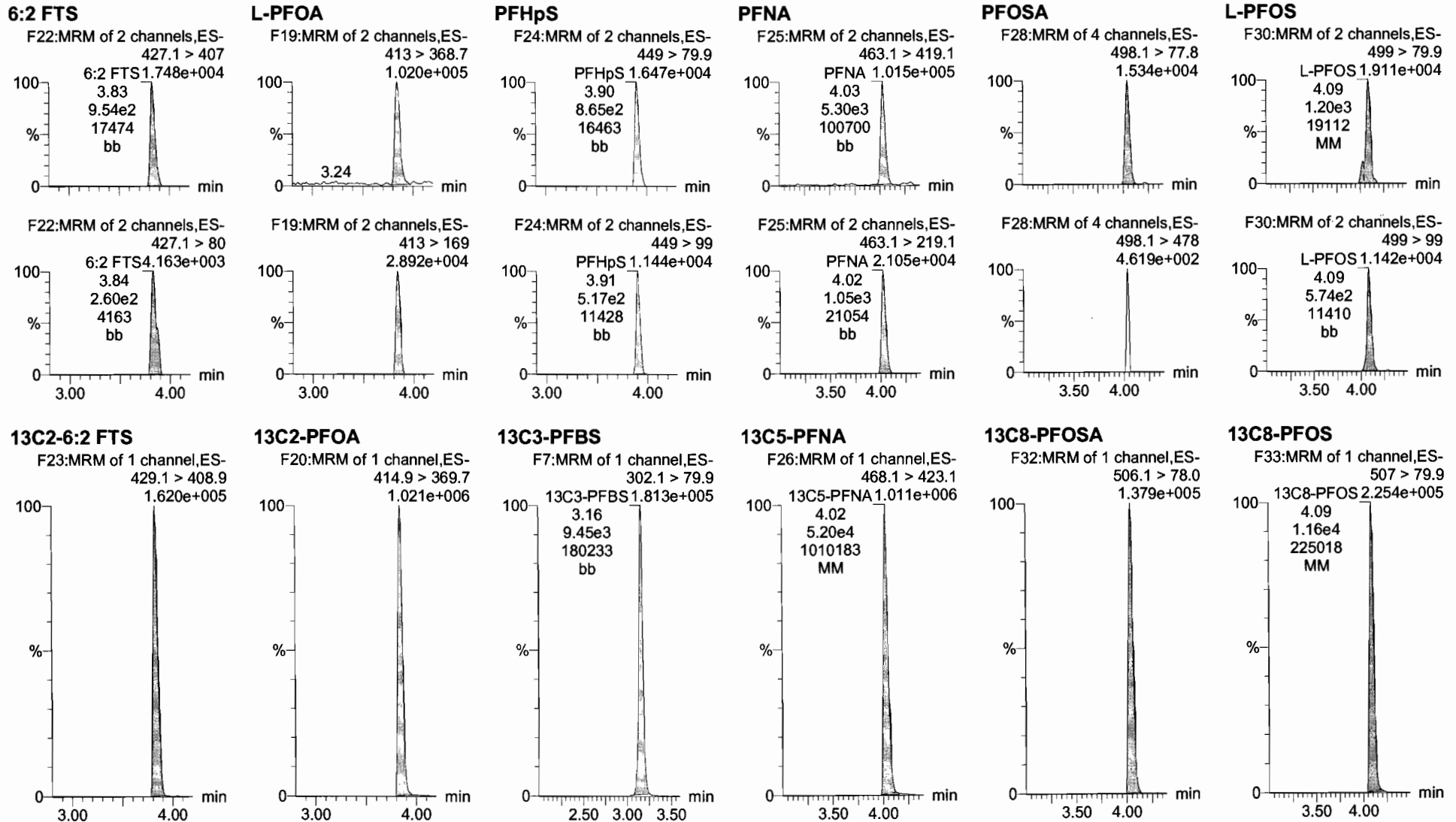
Name: 170926M1_8, Date: 26-Sep-2017, Time: 10:09:38, ID: ST170926M1-3 PFC CS0 1712506, Description: PFC CS0 1712506



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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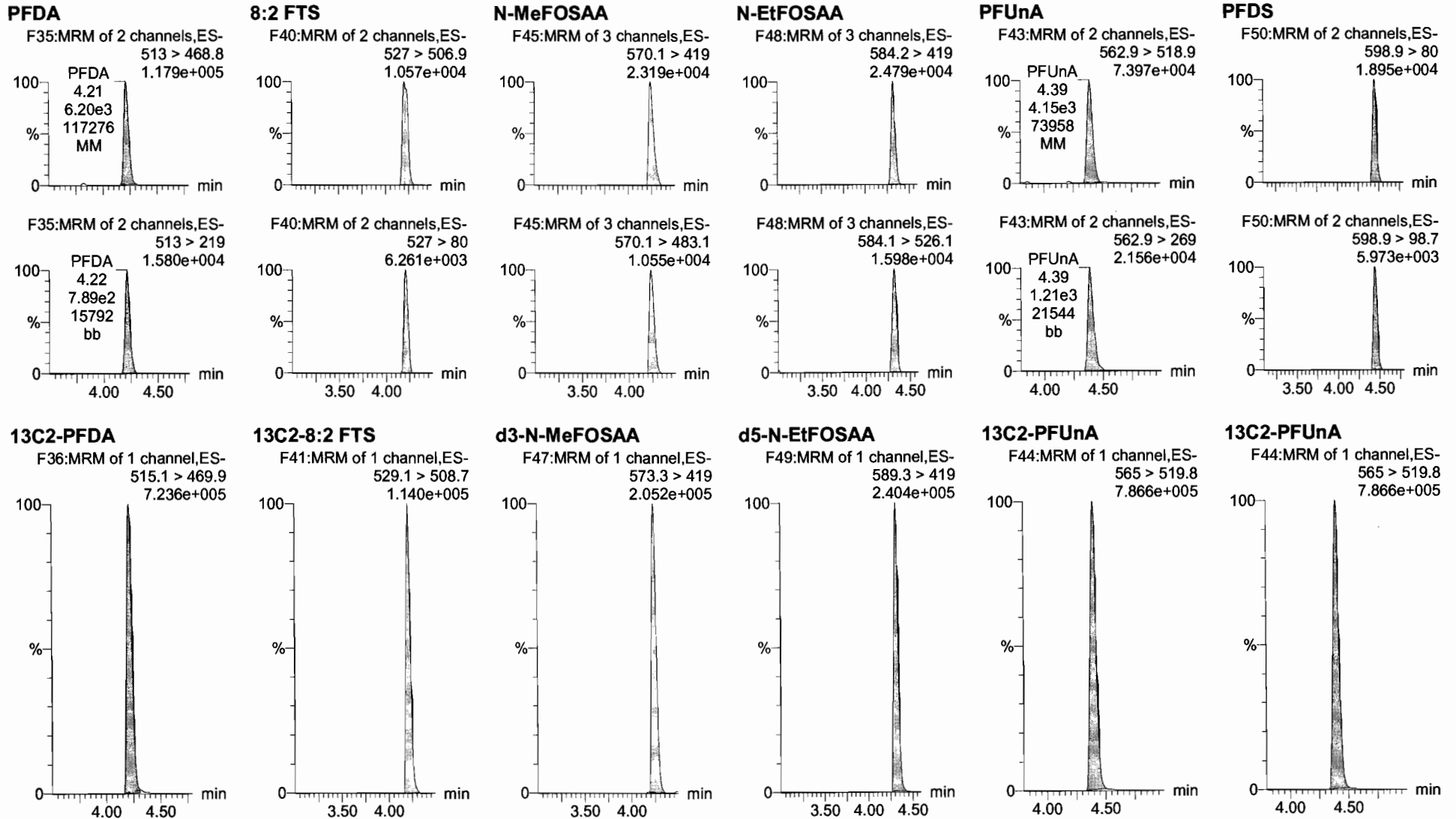
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Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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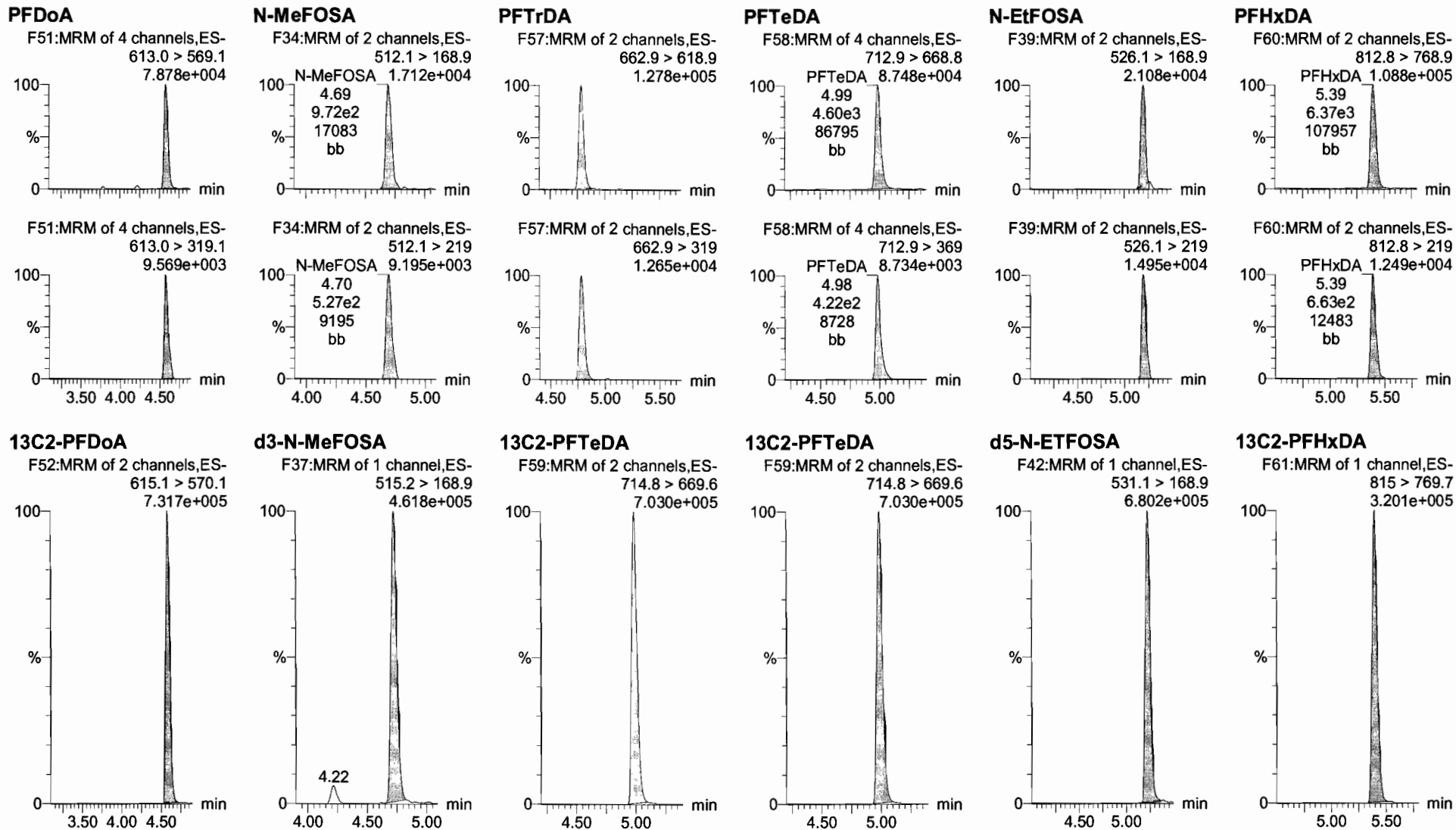
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Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_8, Date: 26-Sep-2017, Time: 10:09:38, ID: ST170926M1-3 PFC CS0 1712506, Description: PFC CS0 1712506



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

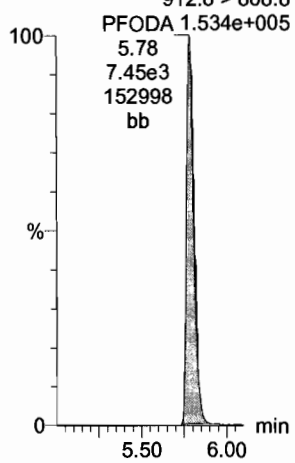
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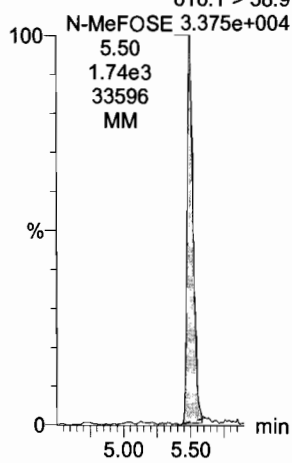
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8



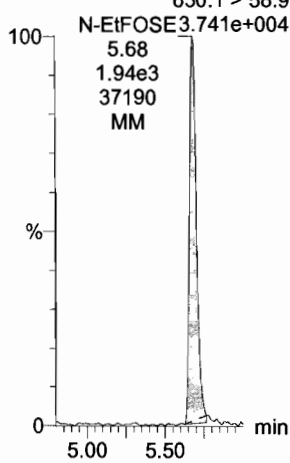
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9



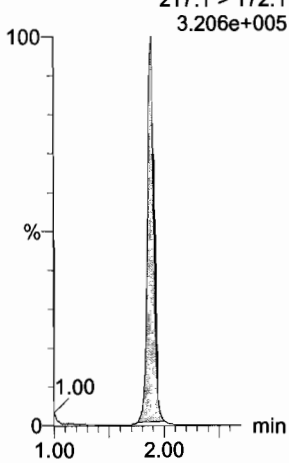
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9



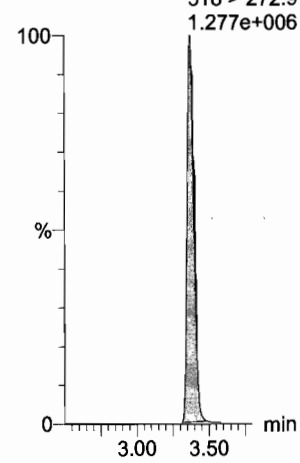
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1



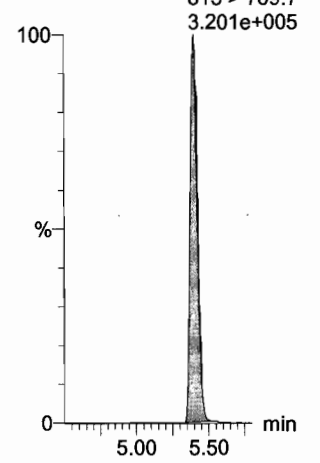
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9



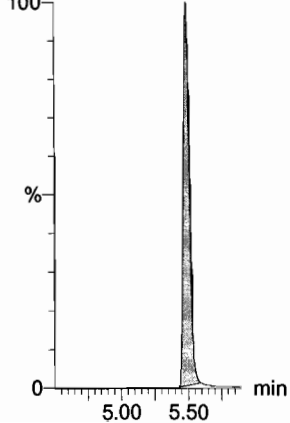
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7



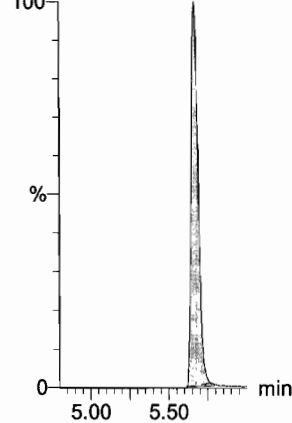
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9



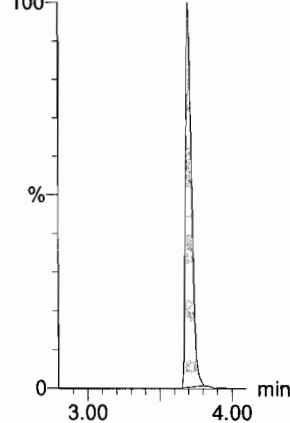
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8



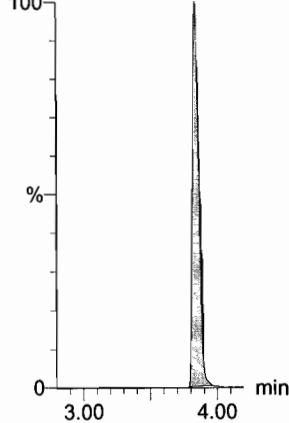
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0



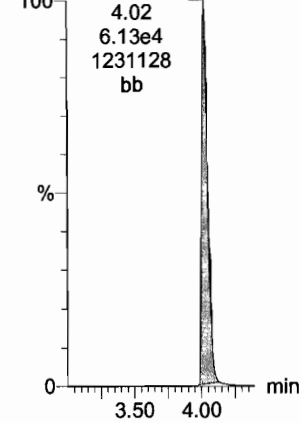
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1



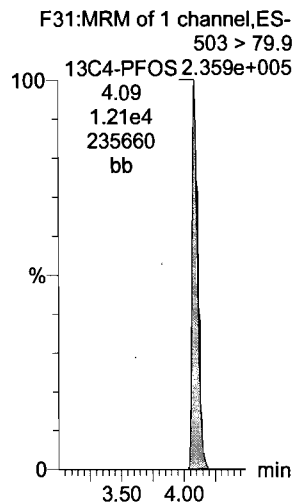
Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

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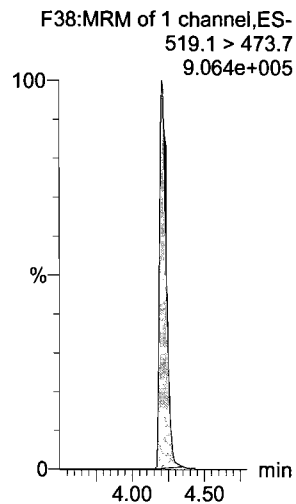
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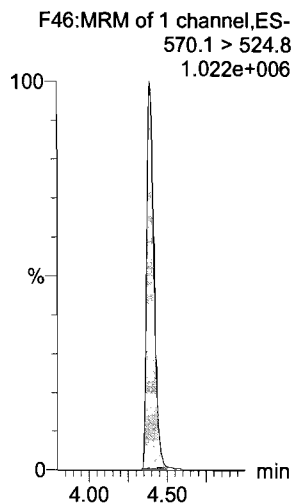
13C4-PFOS



13C6-PFDA



13C7-PFUnA

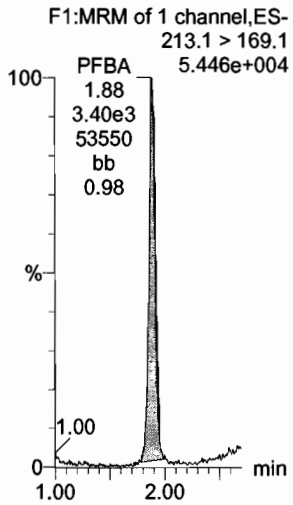


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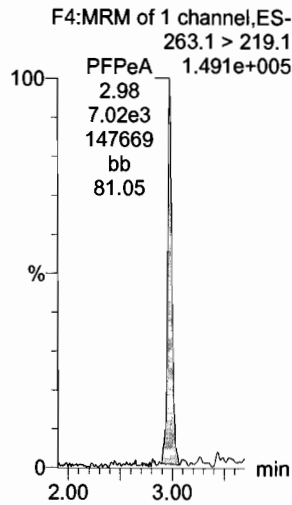
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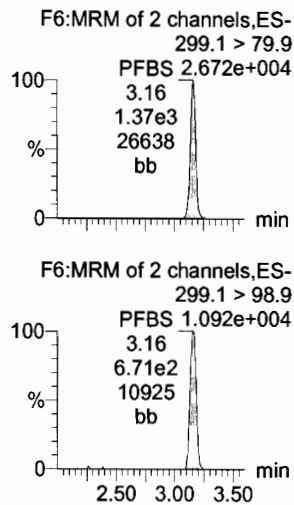
PFBA



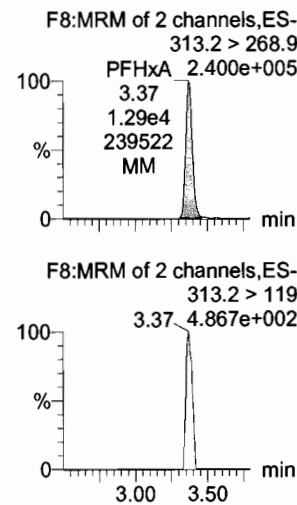
PFPeA



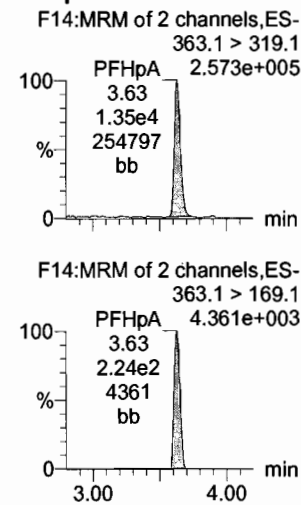
PFBS



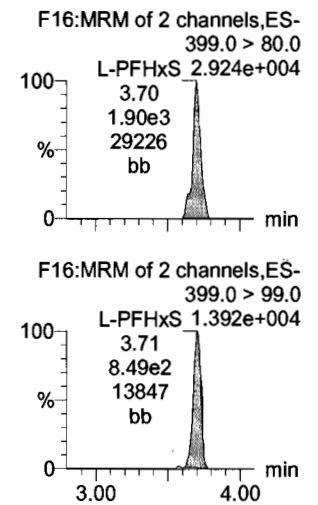
PFHxA



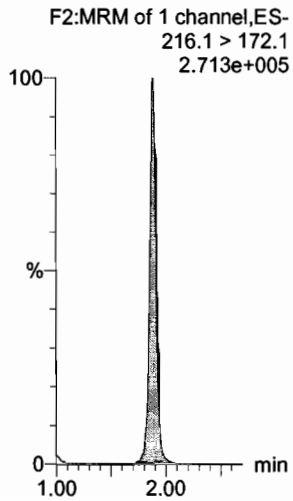
PFHpA



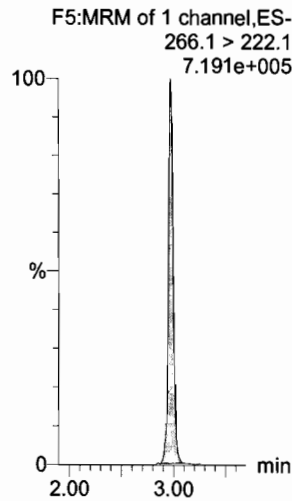
L-PFHxS



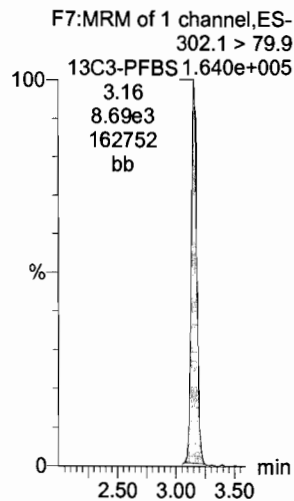
13C3-PFBA



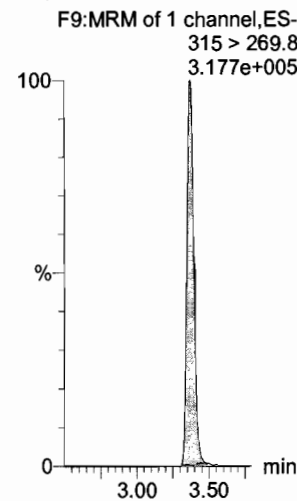
13C3-PFPeA



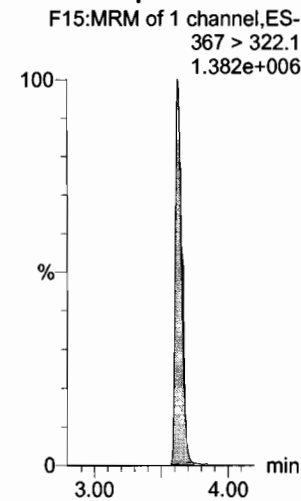
13C3-PFBS



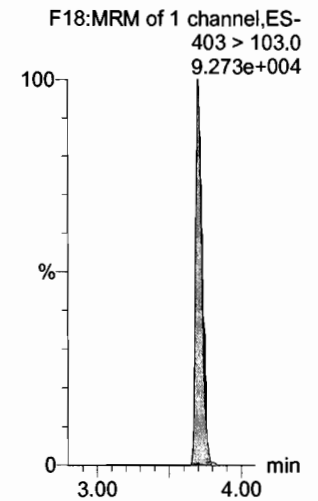
13C2-PFHxA



13C4-PFHpA



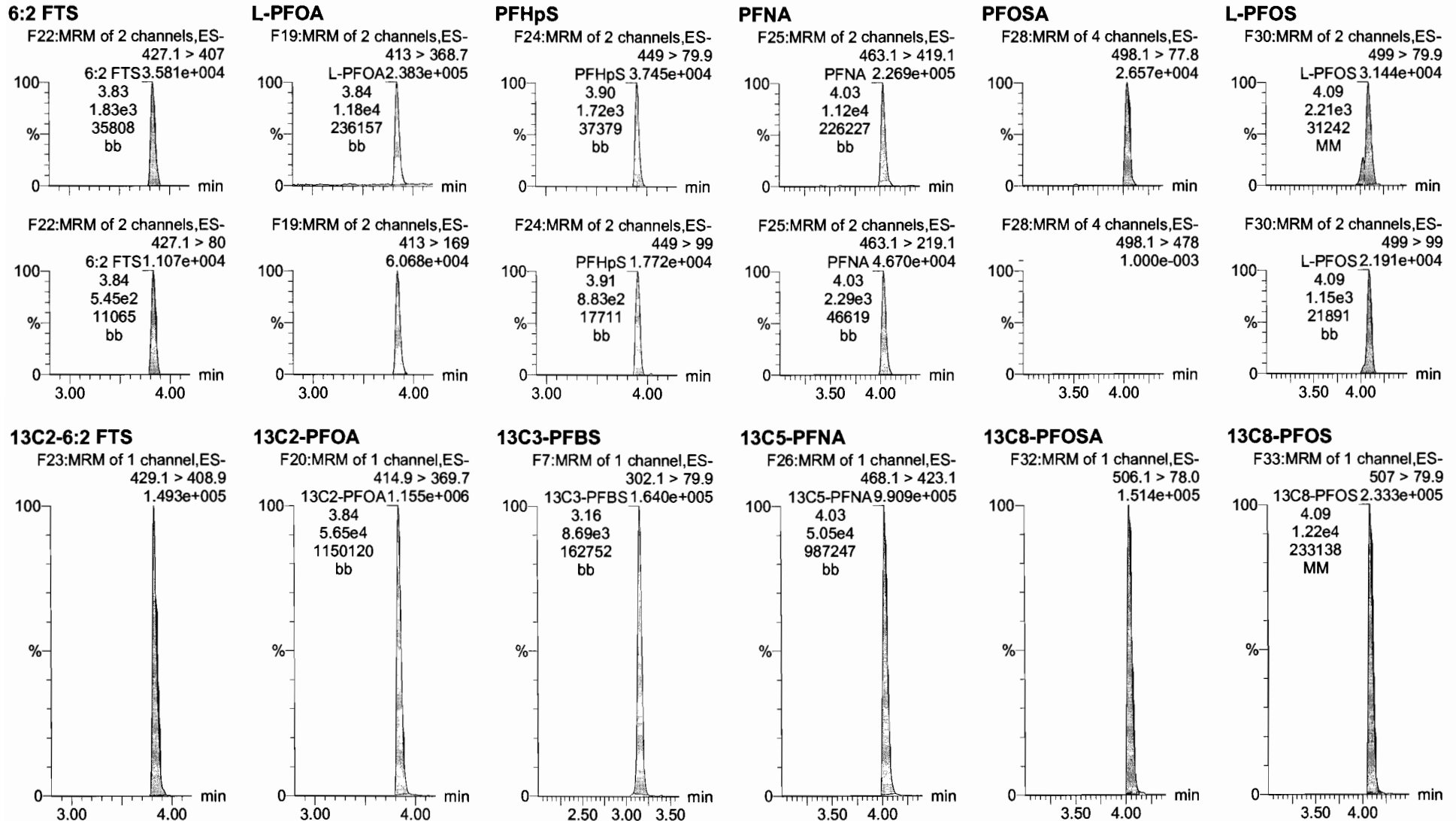
18O2-PFHxS



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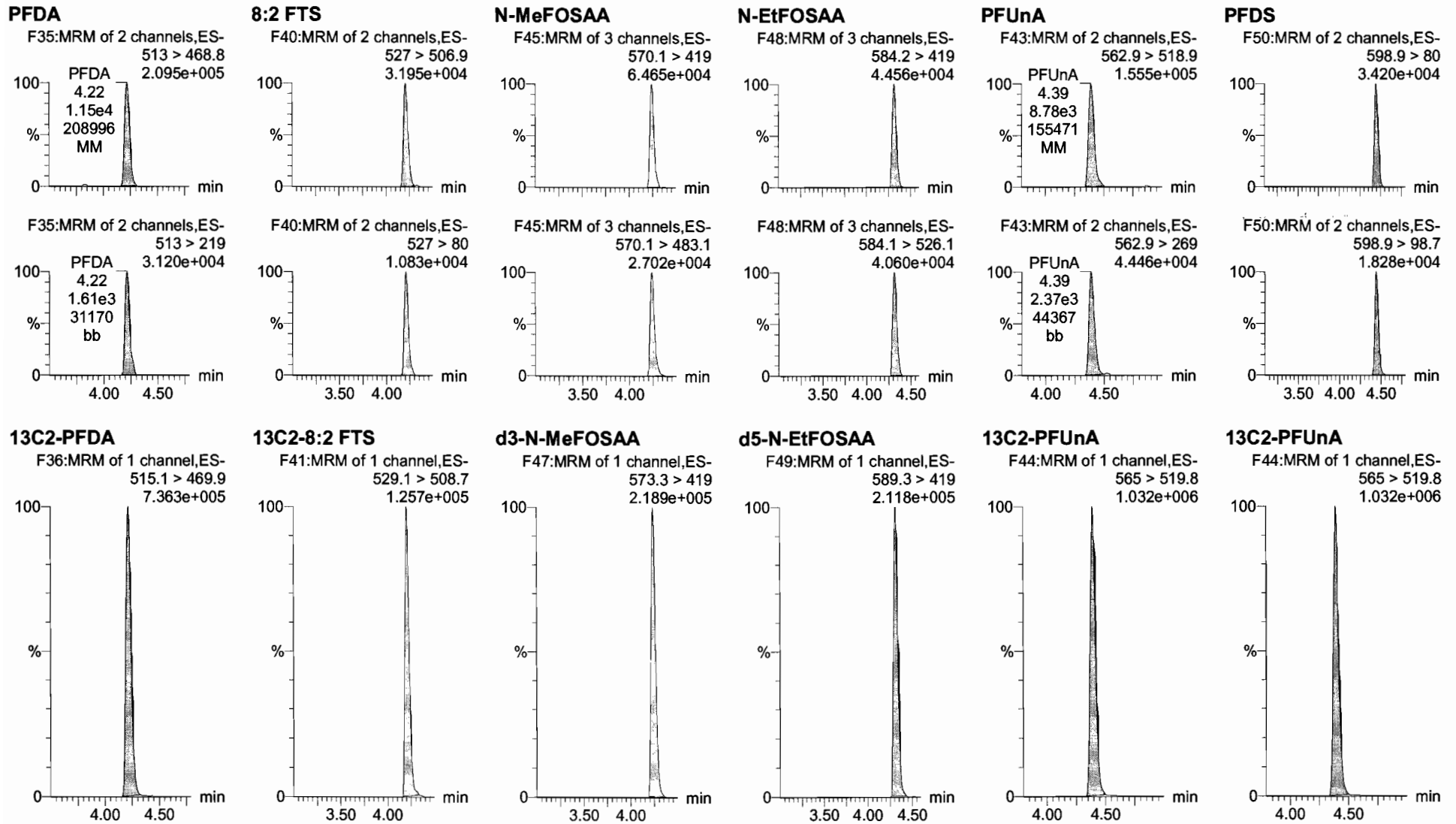


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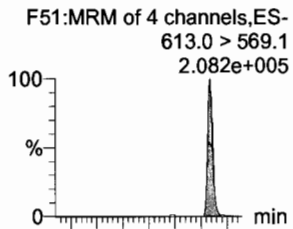
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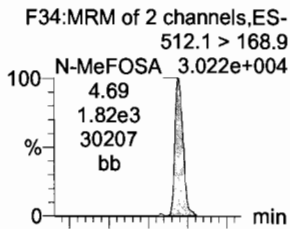
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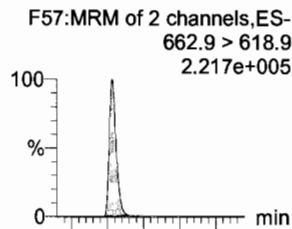
PFDoA



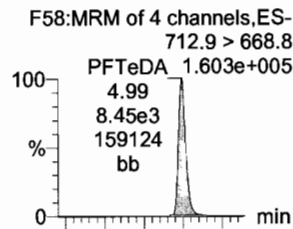
N-MeFOSA



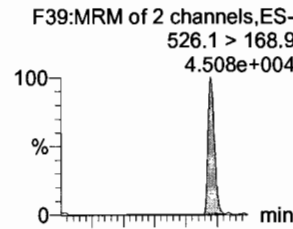
PFTrDA



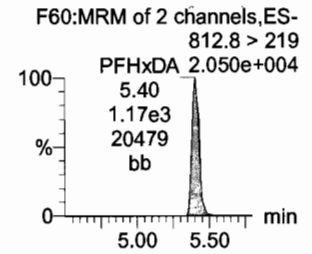
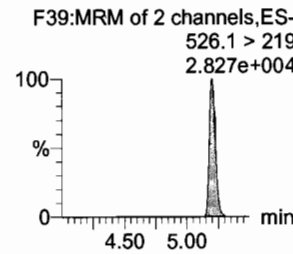
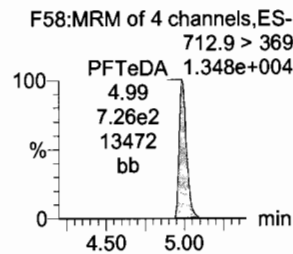
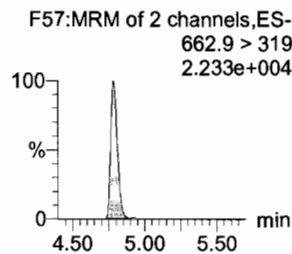
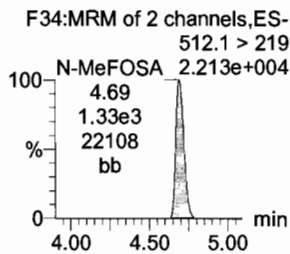
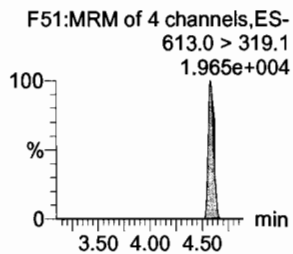
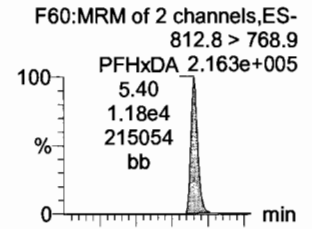
PFTeDA



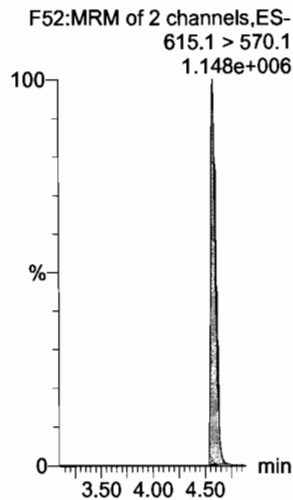
N-EtFOSA



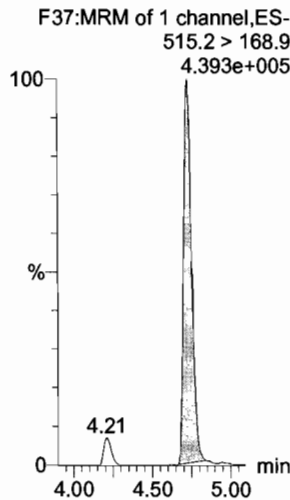
PFHxDA



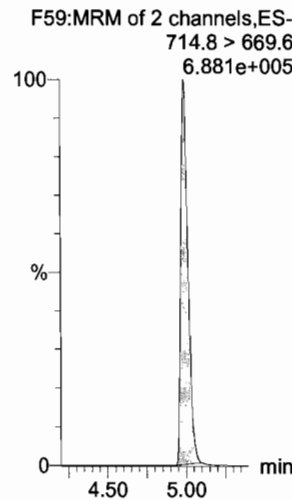
13C2-PFDoA



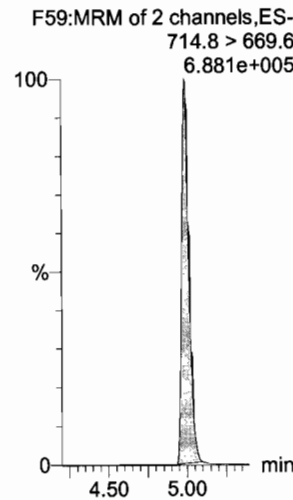
d3-N-MeFOSA



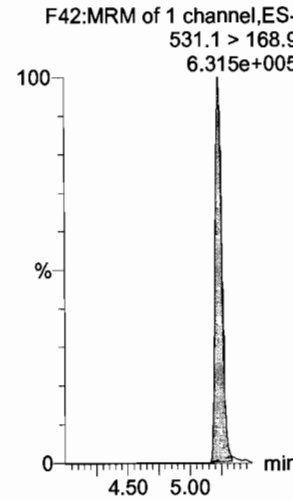
13C2-PFTeDA



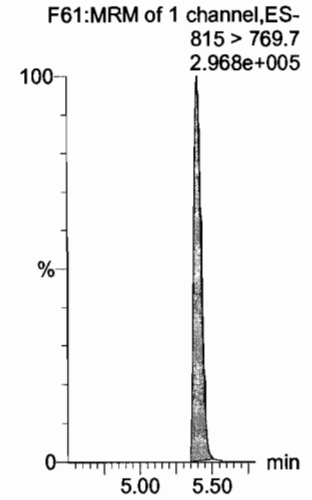
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



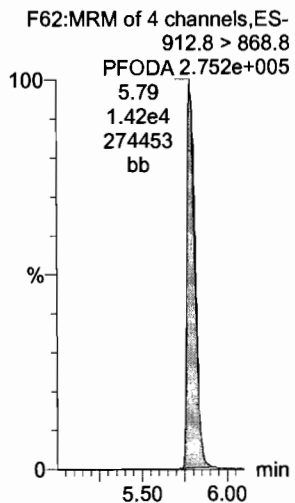
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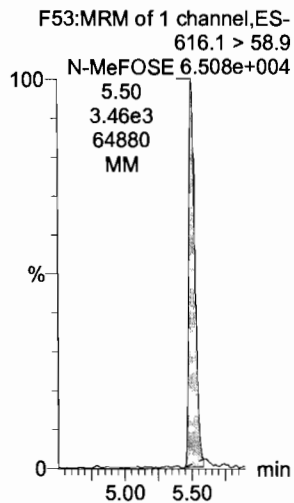
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Name: 170926M1_9, Date: 26-Sep-2017, Time: 10:20:25, ID: ST170926M1-4 PFC CS1 1712507, Description: PFC CS1 1712507

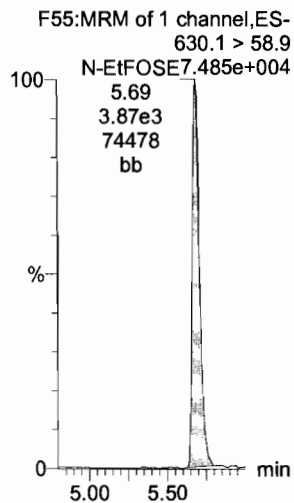
PFODA



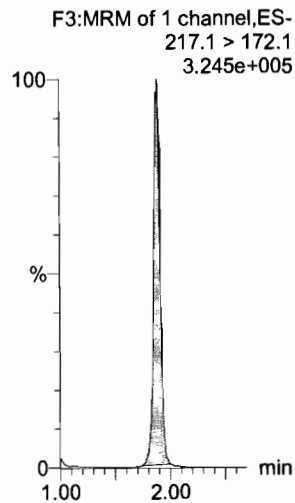
N-MeFOSE



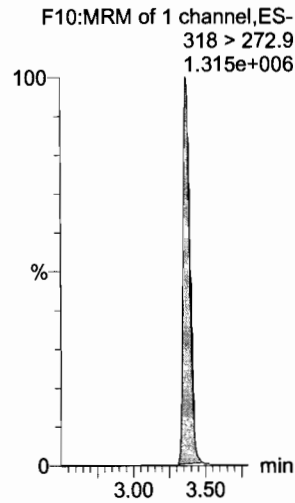
N-EtFOSE



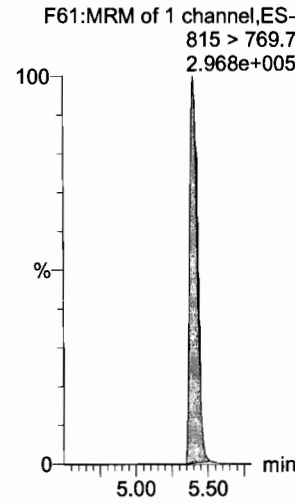
13C4-PFBA



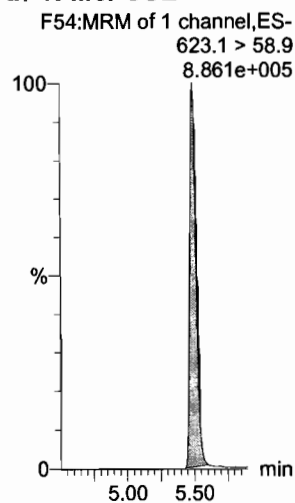
13C5-PFHxA



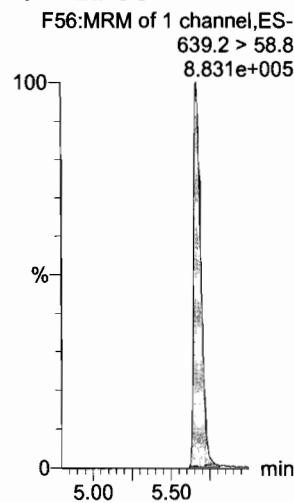
13C2-PFHxDA



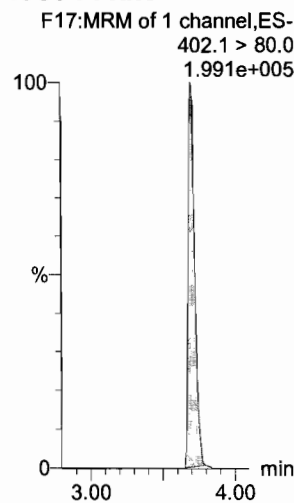
d7-N-MeFOSE



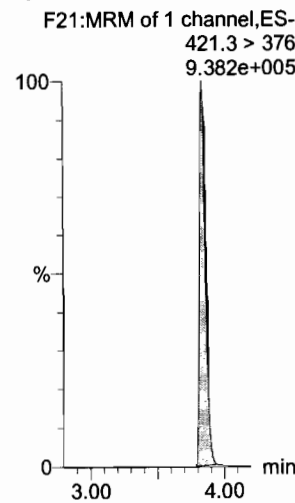
d9-N-EtFOSE



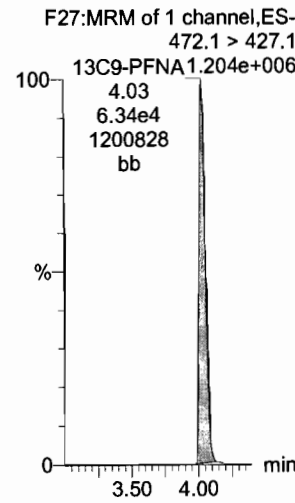
13C3-PFHxS



13C8-PFOA



13C9-PFNA



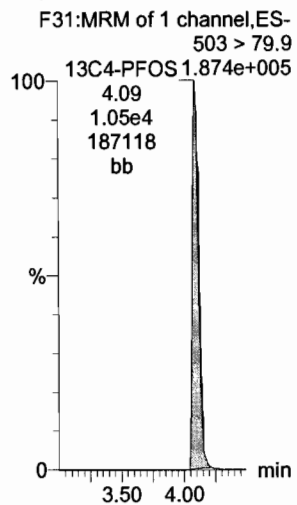
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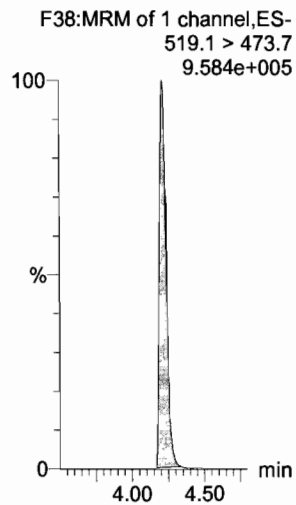
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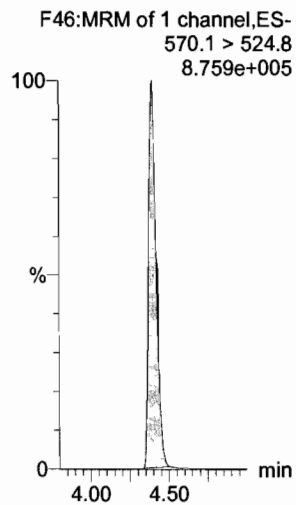
13C4-PFOS



13C6-PFDA



13C7-PFUnA

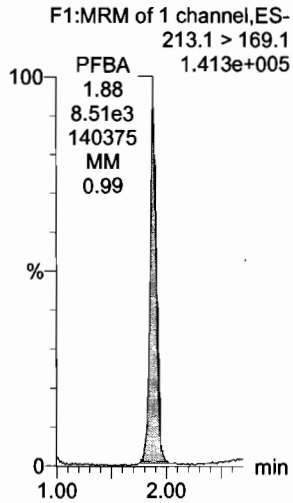


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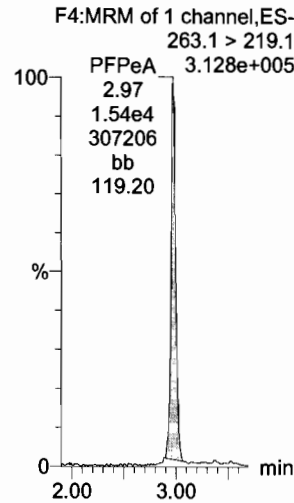
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Name: 170926M1_10, Date: 26-Sep-2017, Time: 10:31:03, ID: ST170926M1-5 PFC CS2 17I2508, Description: PFC CS2 17I2508

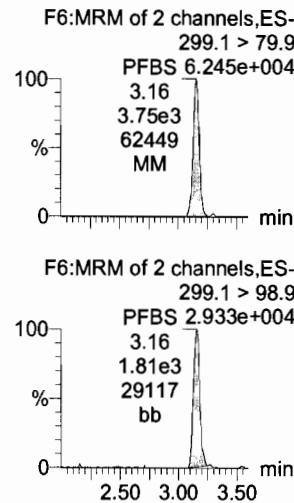
PFBA



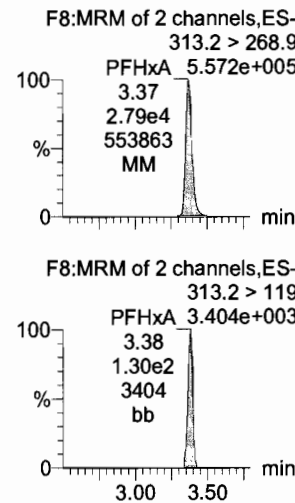
PFPeA



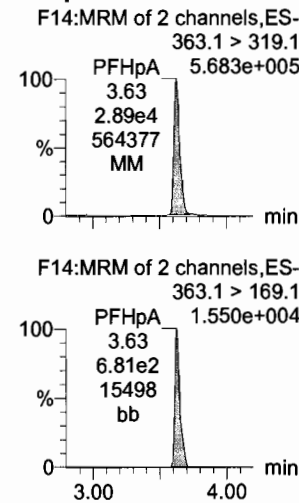
PFBS



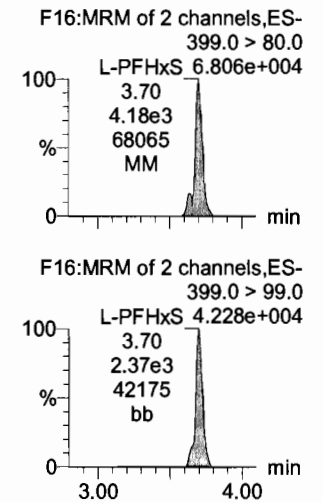
PFHxA



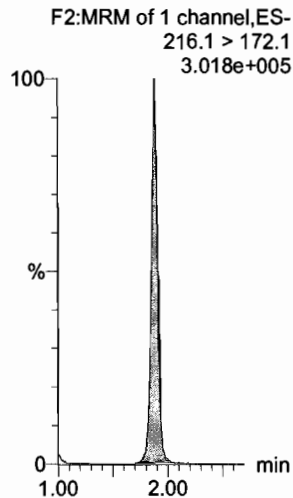
PFHpA



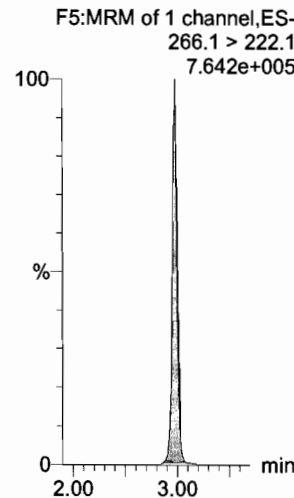
L-PFHxS



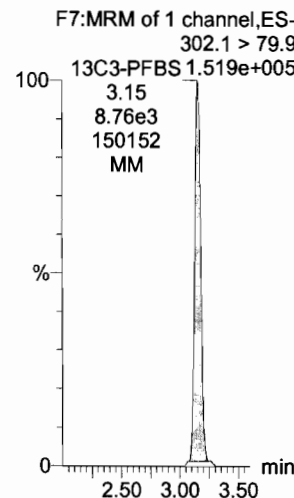
13C3-PFBA



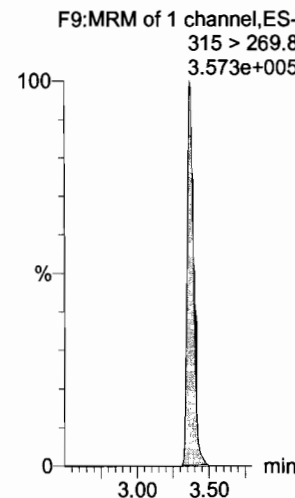
13C3-PFPeA



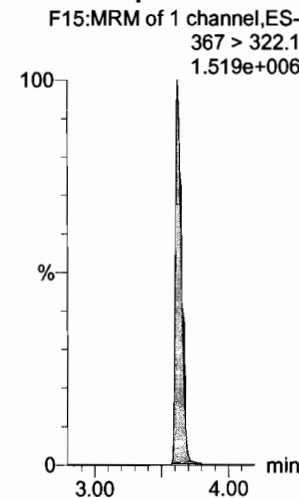
13C3-PFBS



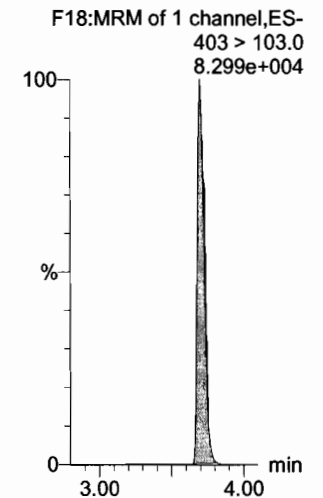
13C2-PFHxA



13C4-PFHpA



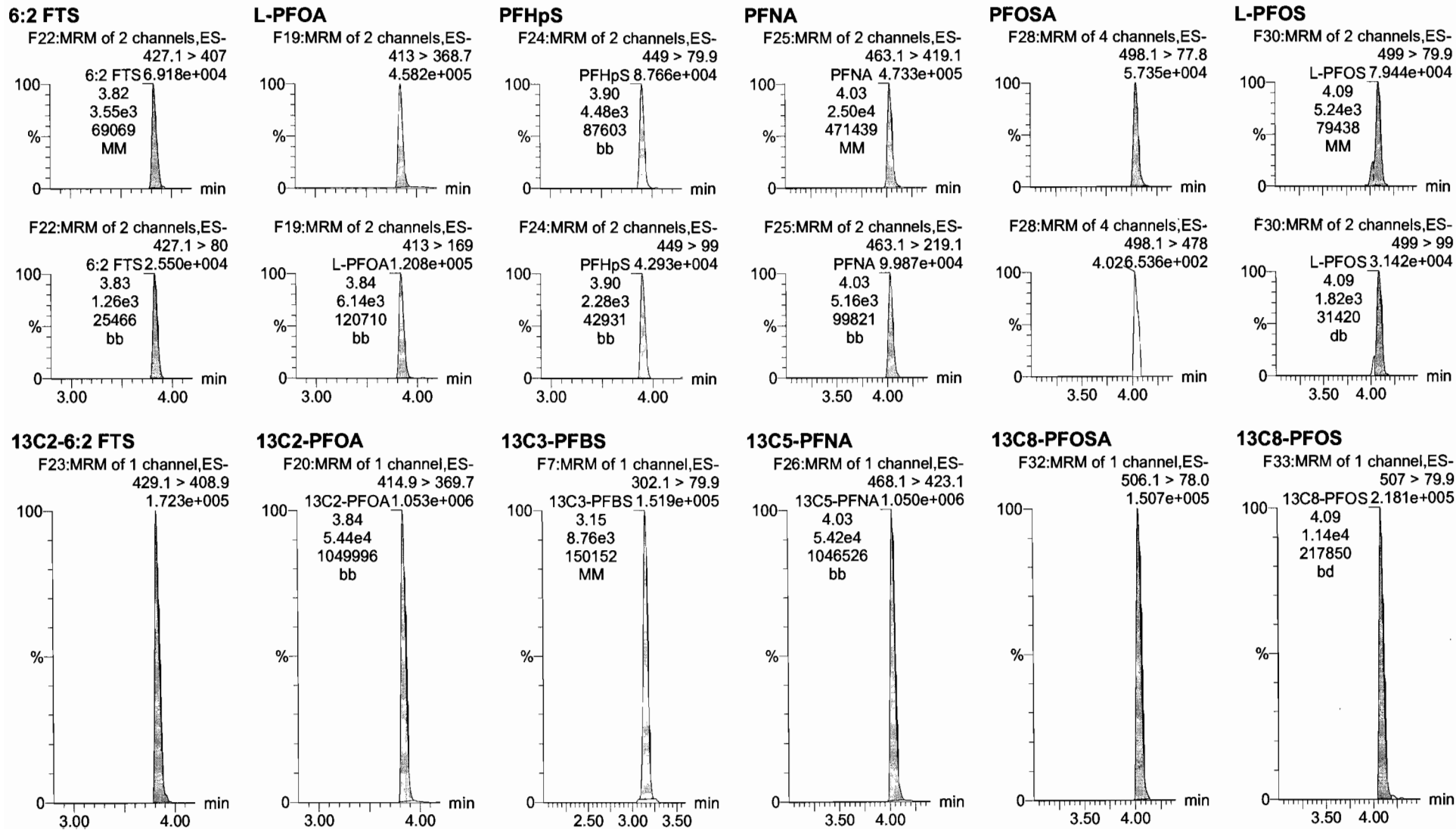
18O2-PFHxS



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Name: 170926M1_10, Date: 26-Sep-2017, Time: 10:31:03, ID: ST170926M1-5 PFC CS2 1712508, Description: PFC CS2 1712508

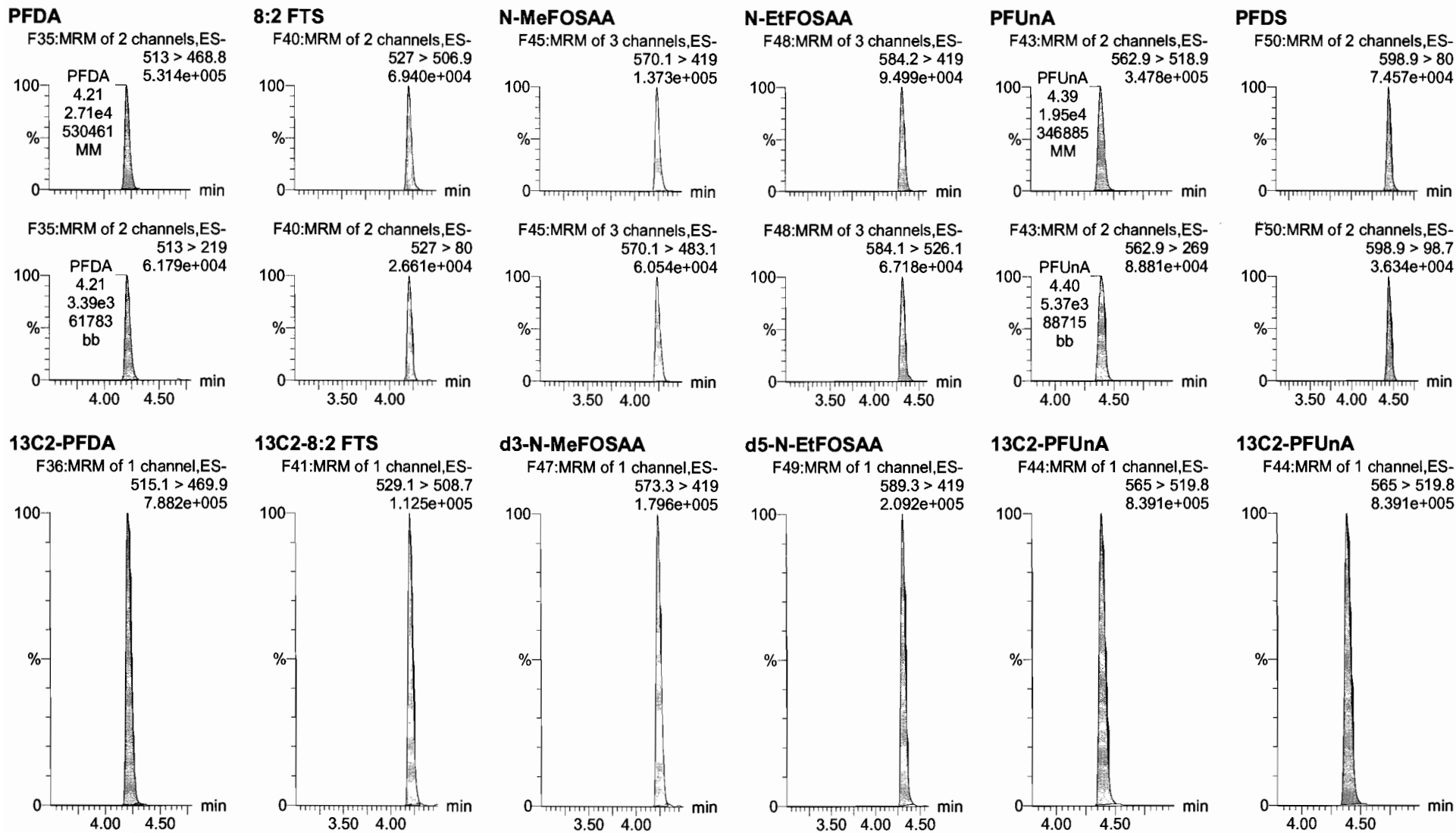


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Name: 170926M1_10, Date: 26-Sep-2017, Time: 10:31:03, ID: ST170926M1-5 PFC CS2 1712508, Description: PFC CS2 1712508

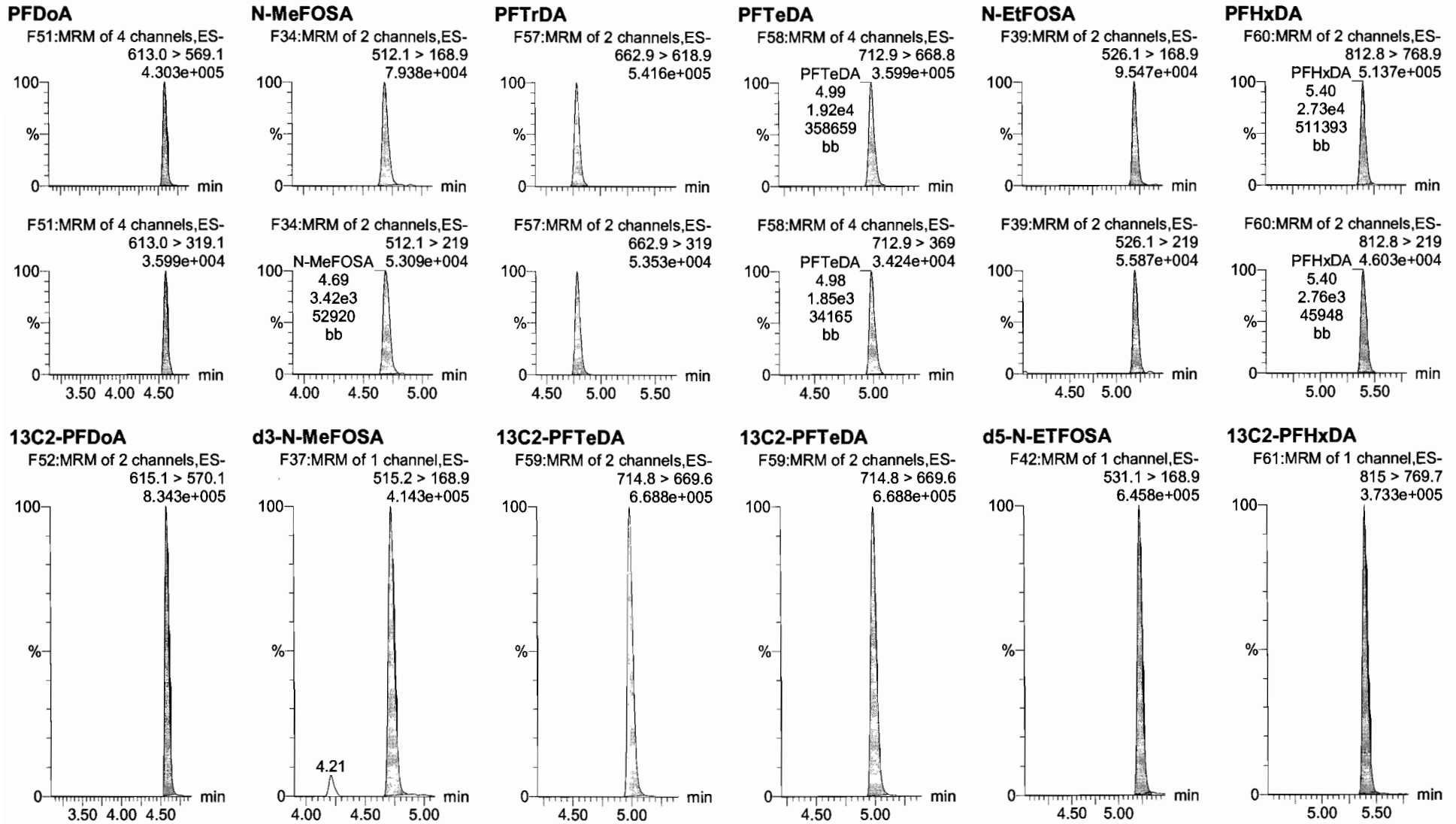


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Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

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Name: 170926M1_10, Date: 26-Sep-2017, Time: 10:31:03, ID: ST170926M1-5 PFC CS2 1712508, Description: PFC CS2 1712508



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

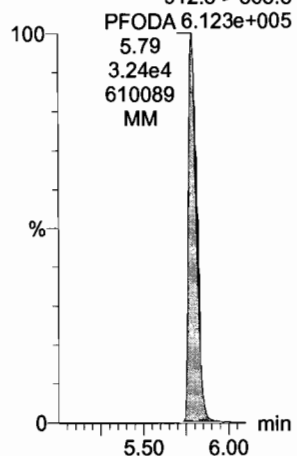
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Name: 170926M1_10, Date: 26-Sep-2017, Time: 10:31:03, ID: ST170926M1-5 PFC CS2 17I2508, Description: PFC CS2 17I2508

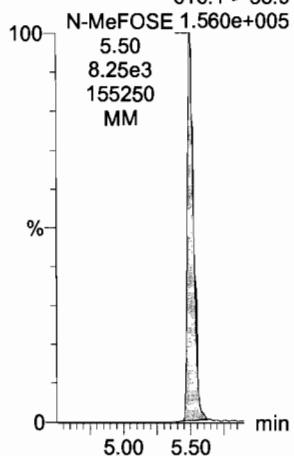
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8



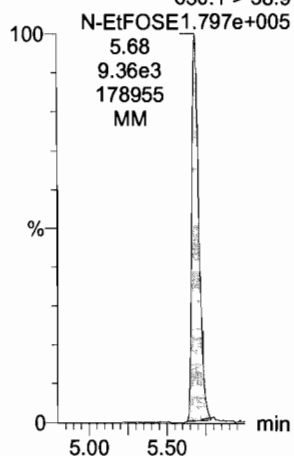
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9



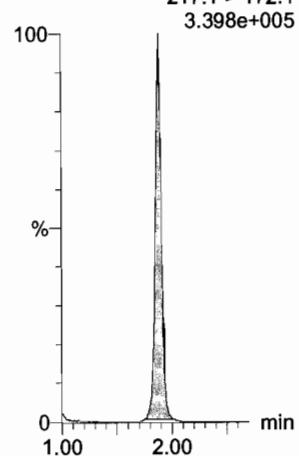
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9



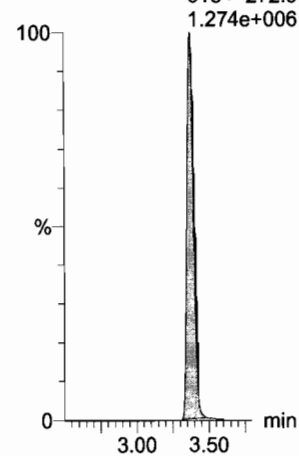
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1



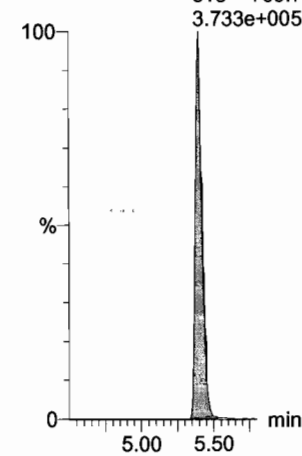
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9



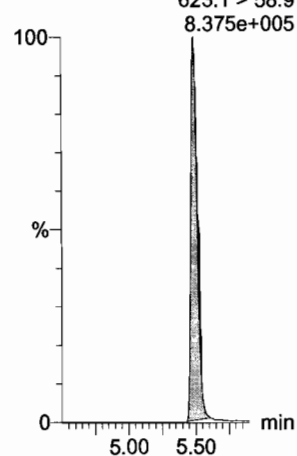
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7



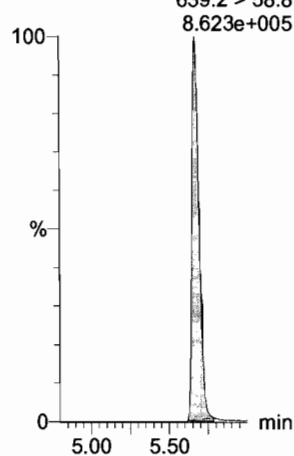
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9



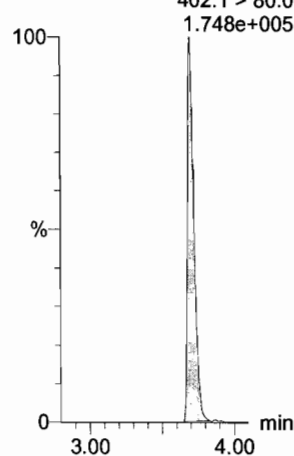
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8



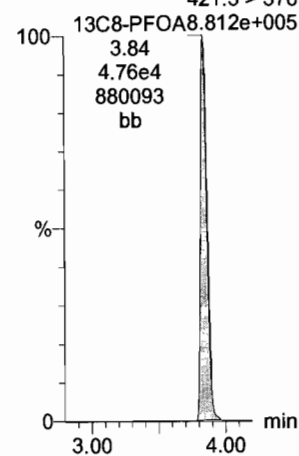
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0



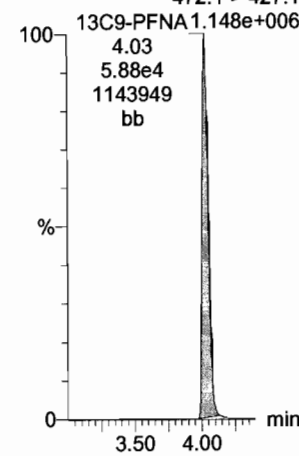
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1



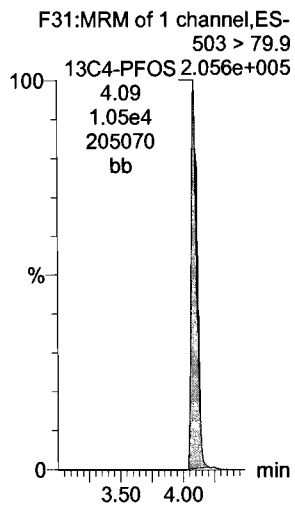
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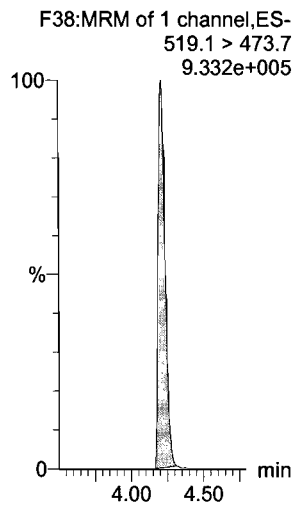
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Name: 170926M1_10, Date: 26-Sep-2017, Time: 10:31:03, ID: ST170926M1-5 PFC CS2 17I2508, Description: PFC CS2 17I2508

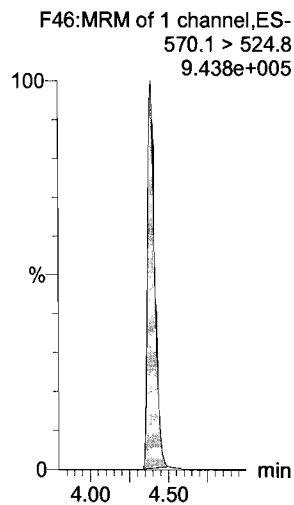
13C4-PFOS



13C6-PFDA



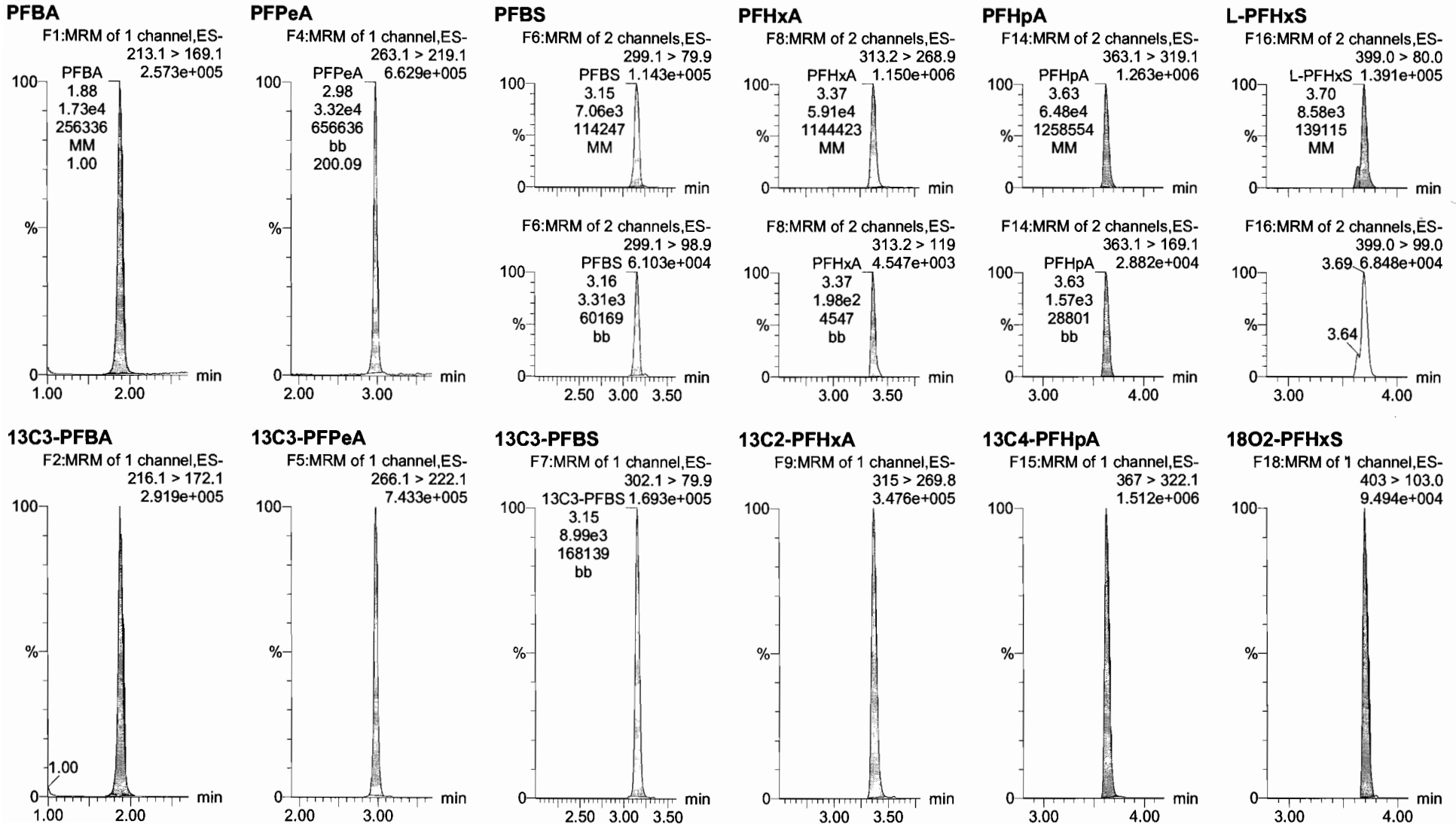
13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

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Name: 170926M1_11, Date: 26-Sep-2017, Time: 10:41:42, ID: ST170926M1-6 PFC CS3 1712509, Description: PFC CS3 1712509

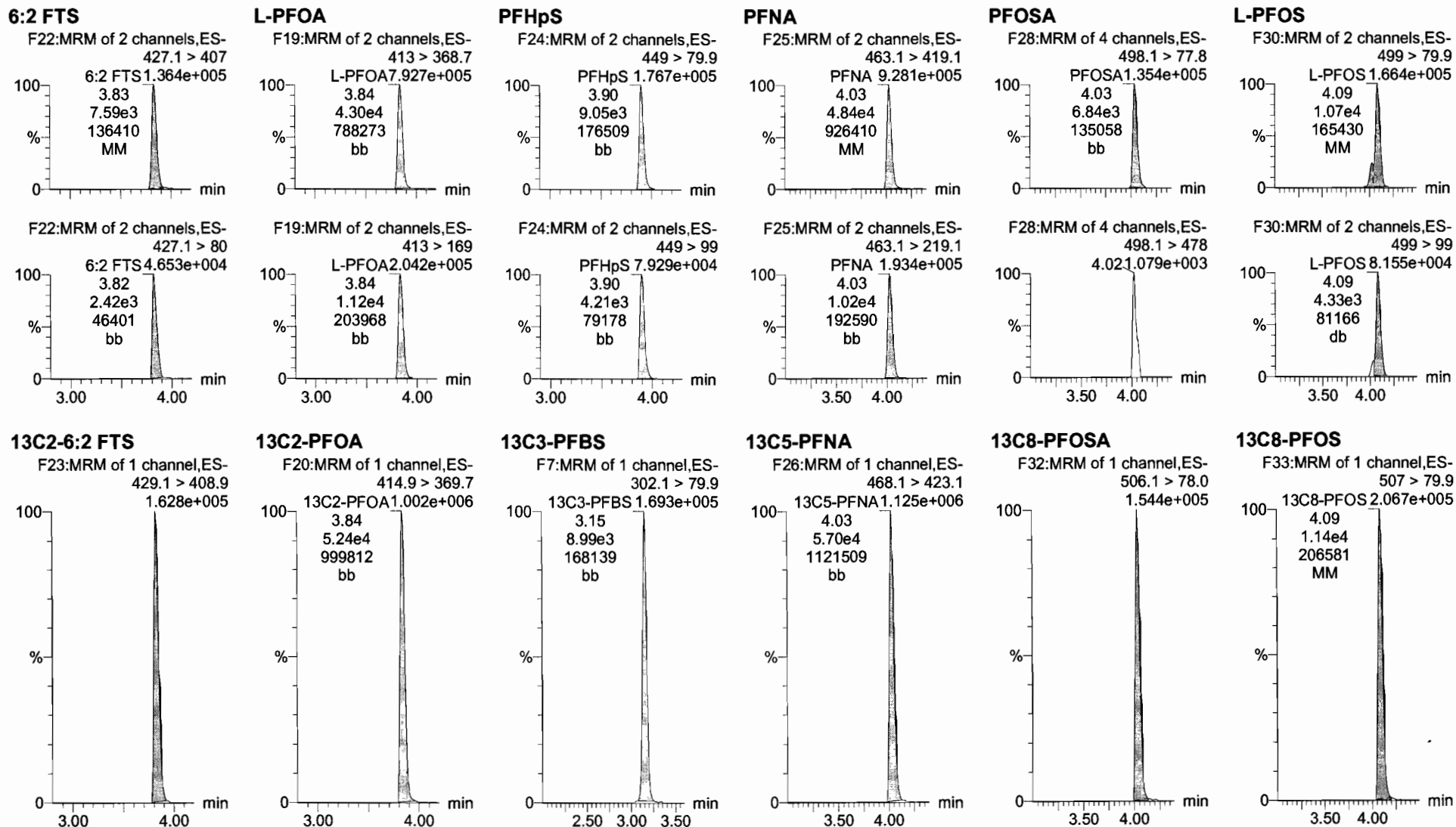


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Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

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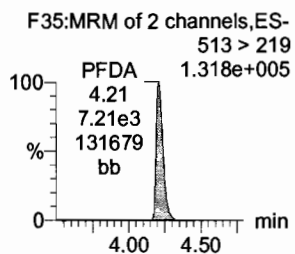
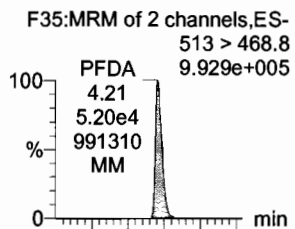
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Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

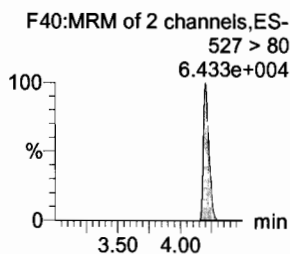
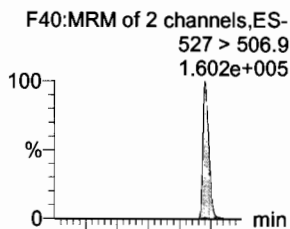
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_11, Date: 26-Sep-2017, Time: 10:41:42, ID: ST170926M1-6 PFC CS3 17I2509, Description: PFC CS3 17I2509

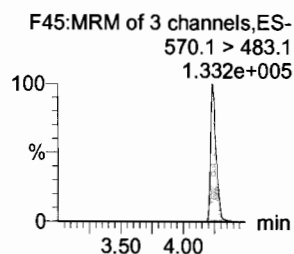
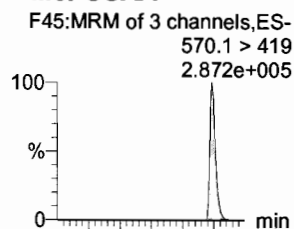
PFDA



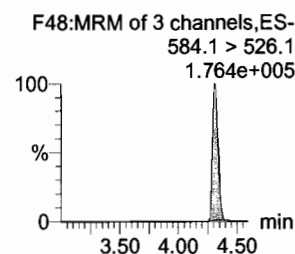
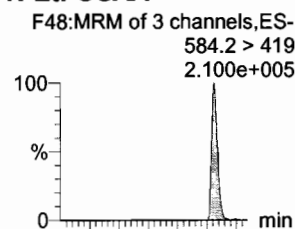
8:2 FTS



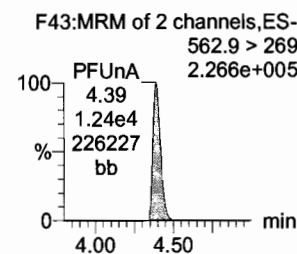
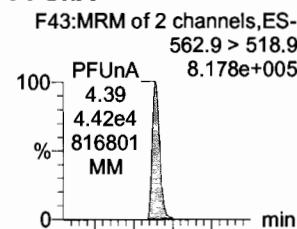
N-MeFOSAA



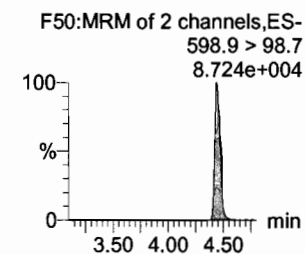
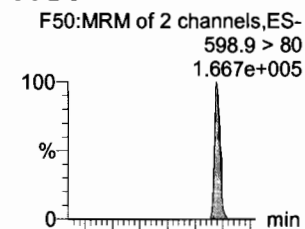
N-EtFOSAA



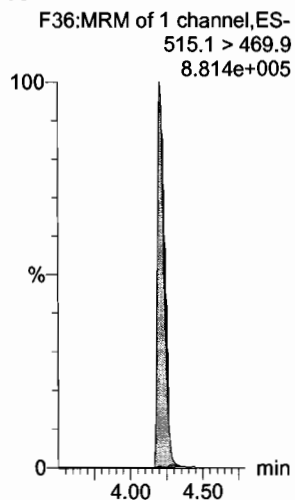
PFUnA



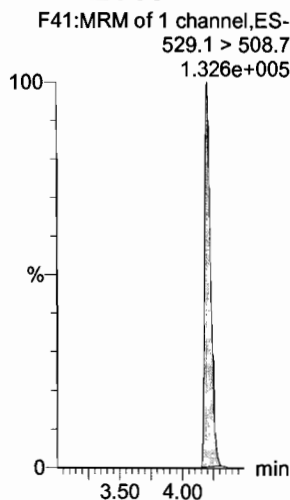
PFDS



13C2-PFDA



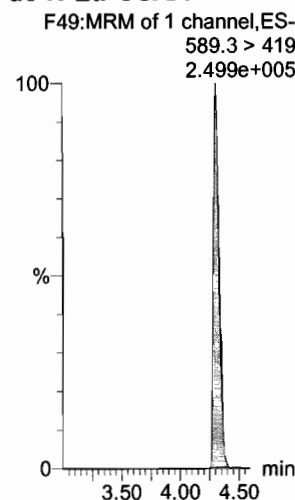
13C2-8:2 FTS



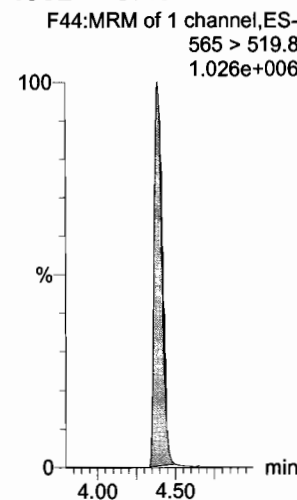
d3-N-MeFOSAA



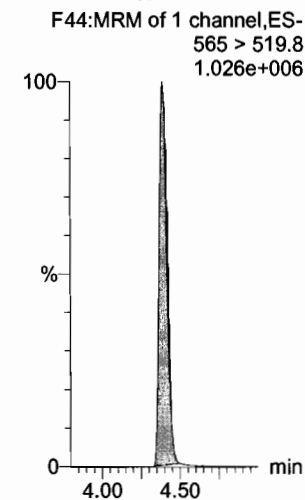
d5-N-EtFOSAA



13C2-PFUnA



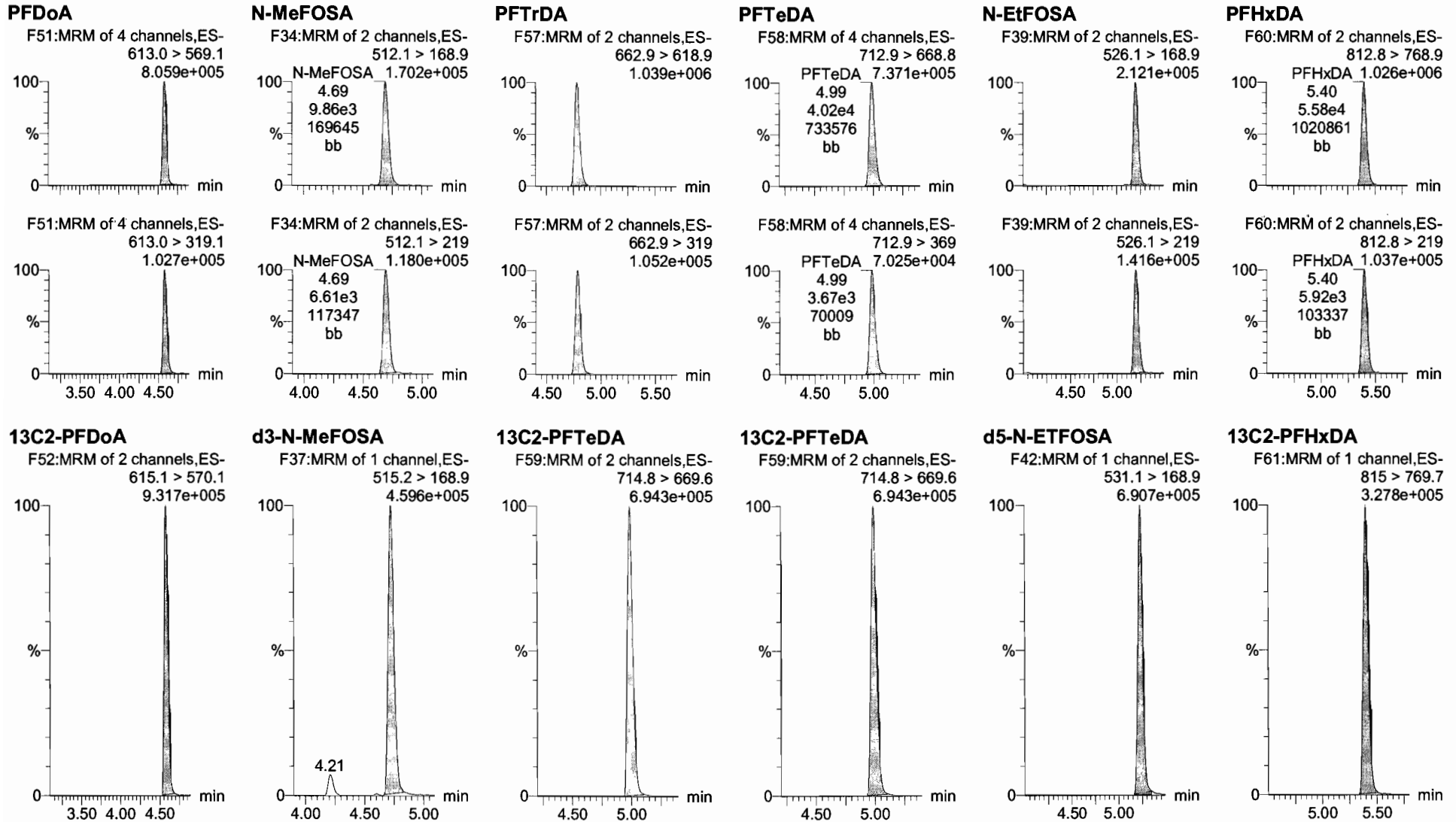
13C2-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

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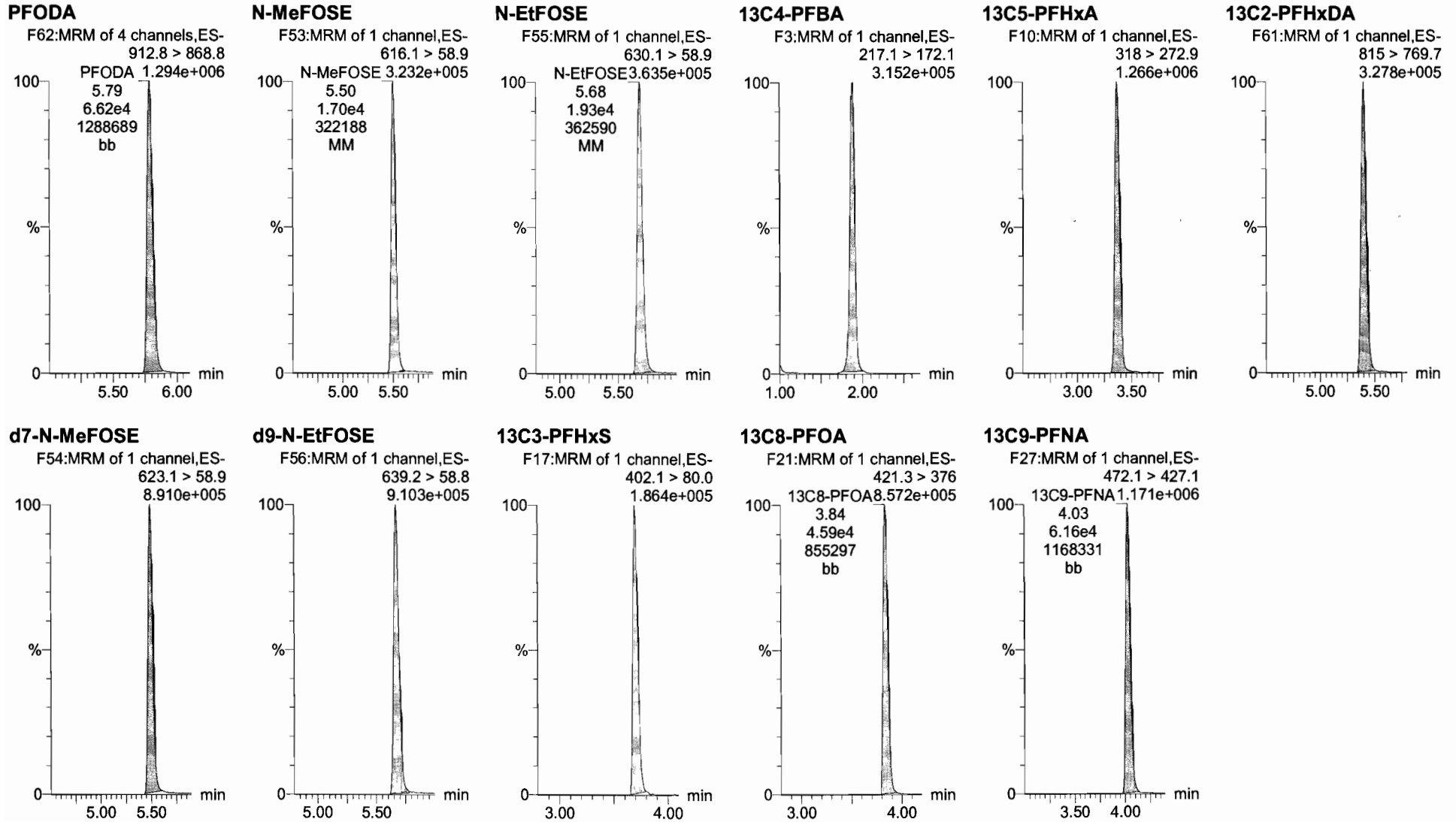
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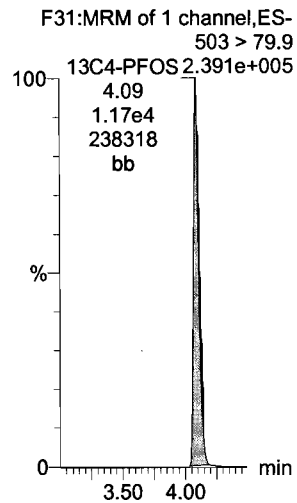
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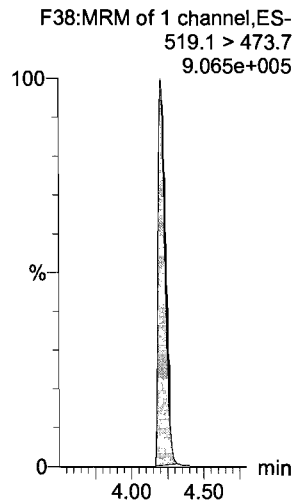
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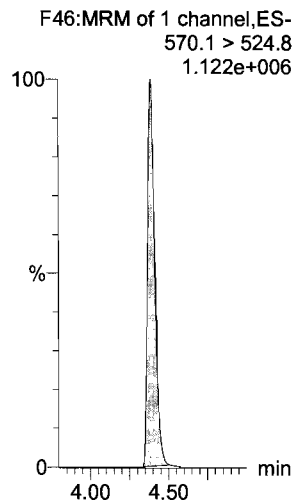
13C4-PFOS



13C6-PFDA



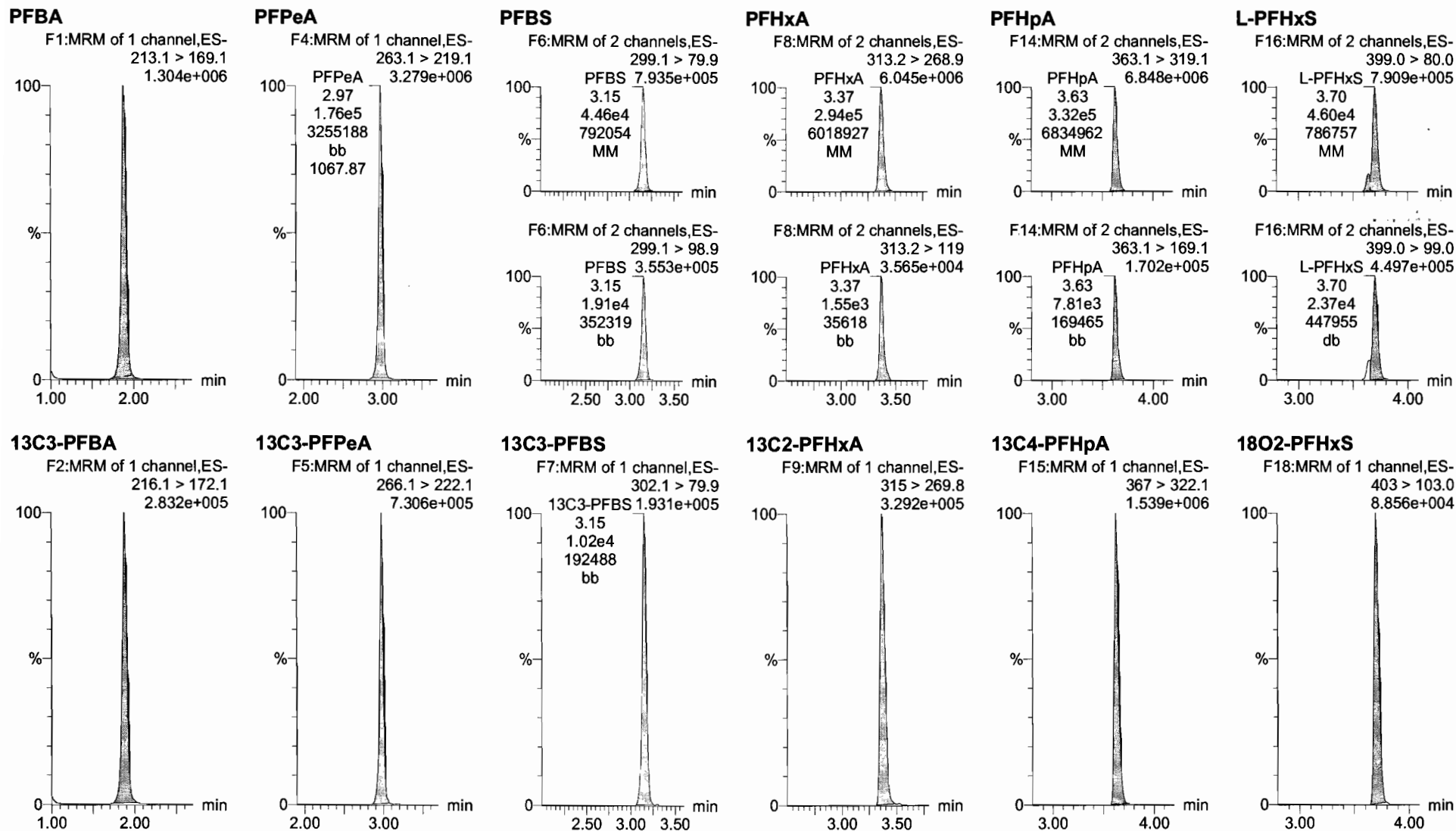
13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
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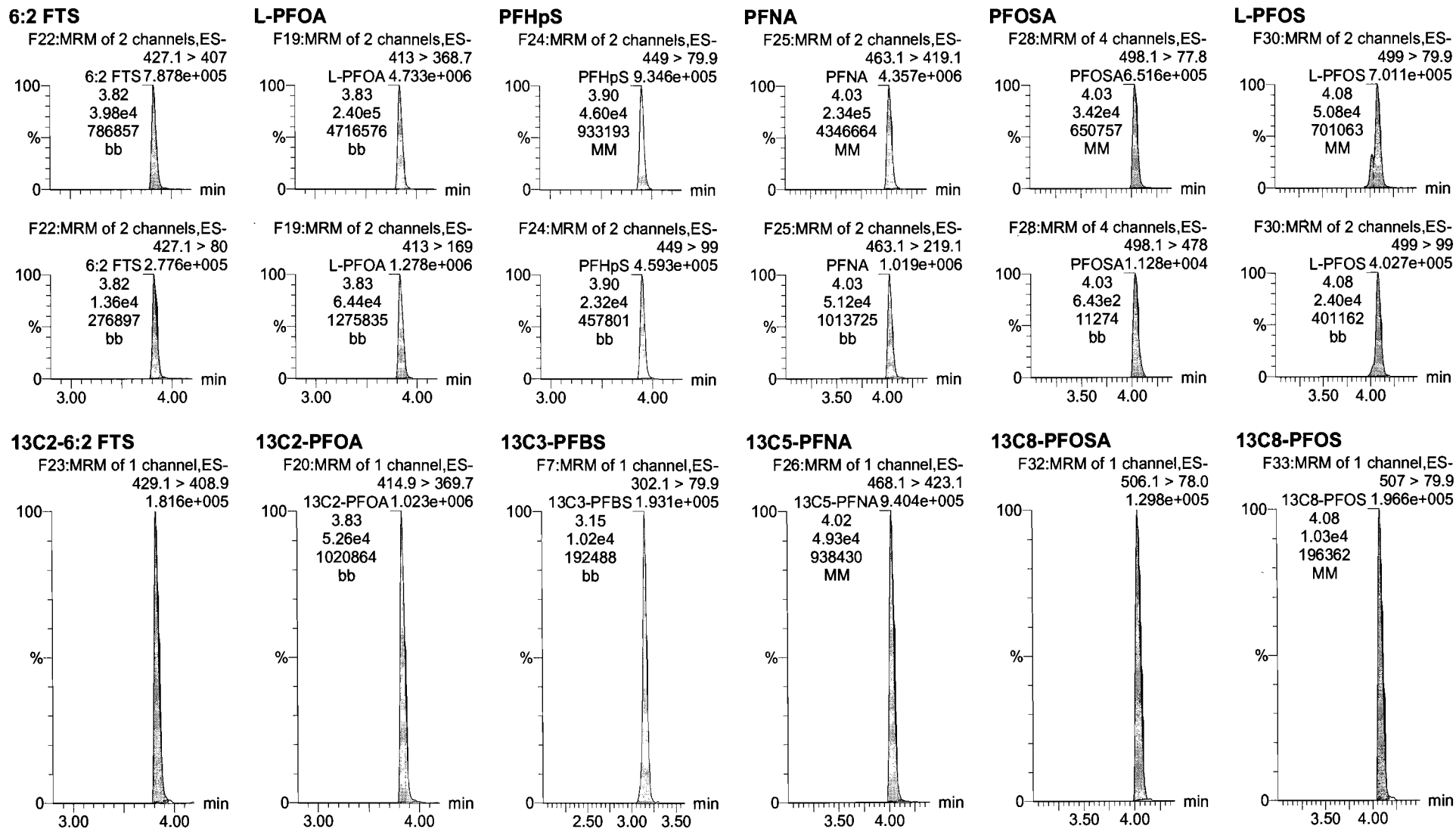


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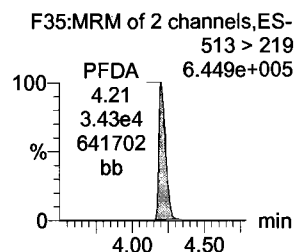
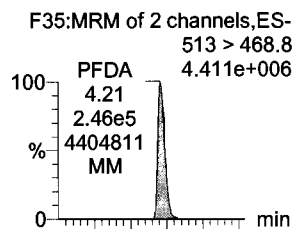
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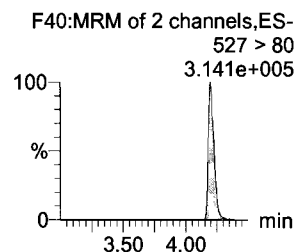
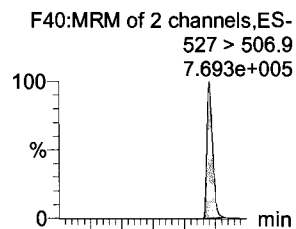
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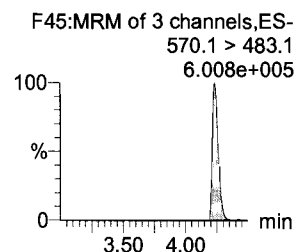
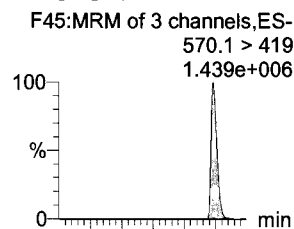
PFDA



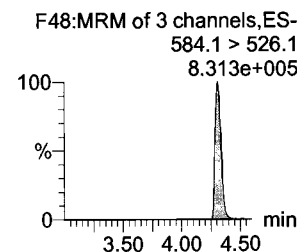
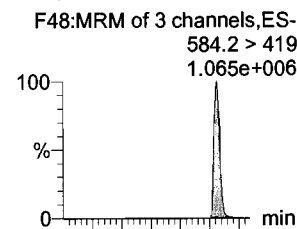
8:2 FTS



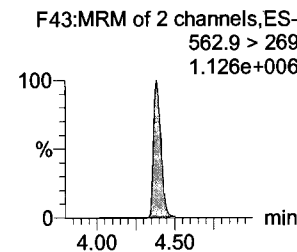
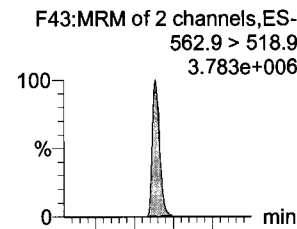
N-MeFOSAA



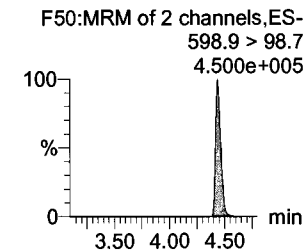
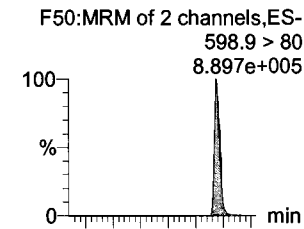
N-EtFOSAA



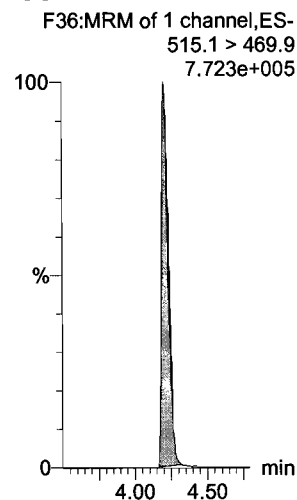
PFUnA



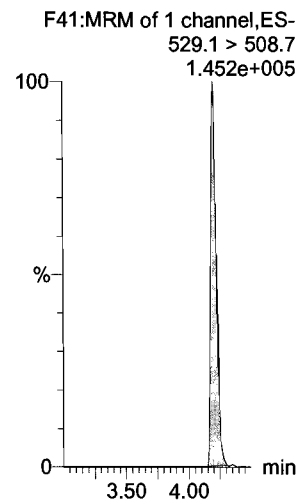
PFDS



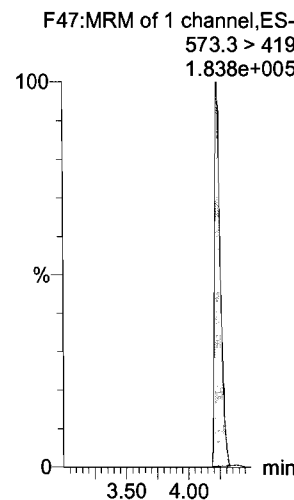
13C2-PFDA



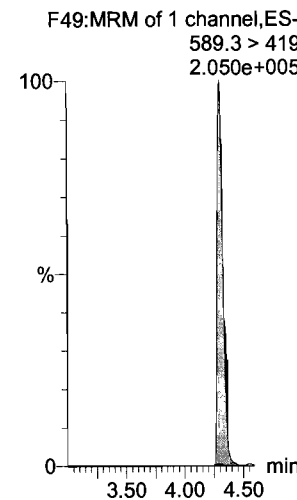
13C2-8:2 FTS



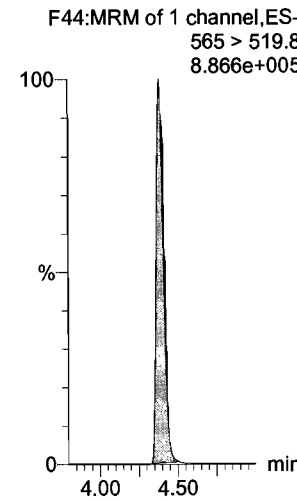
d3-N-MeFOSAA



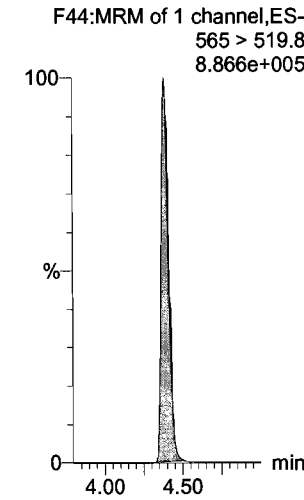
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

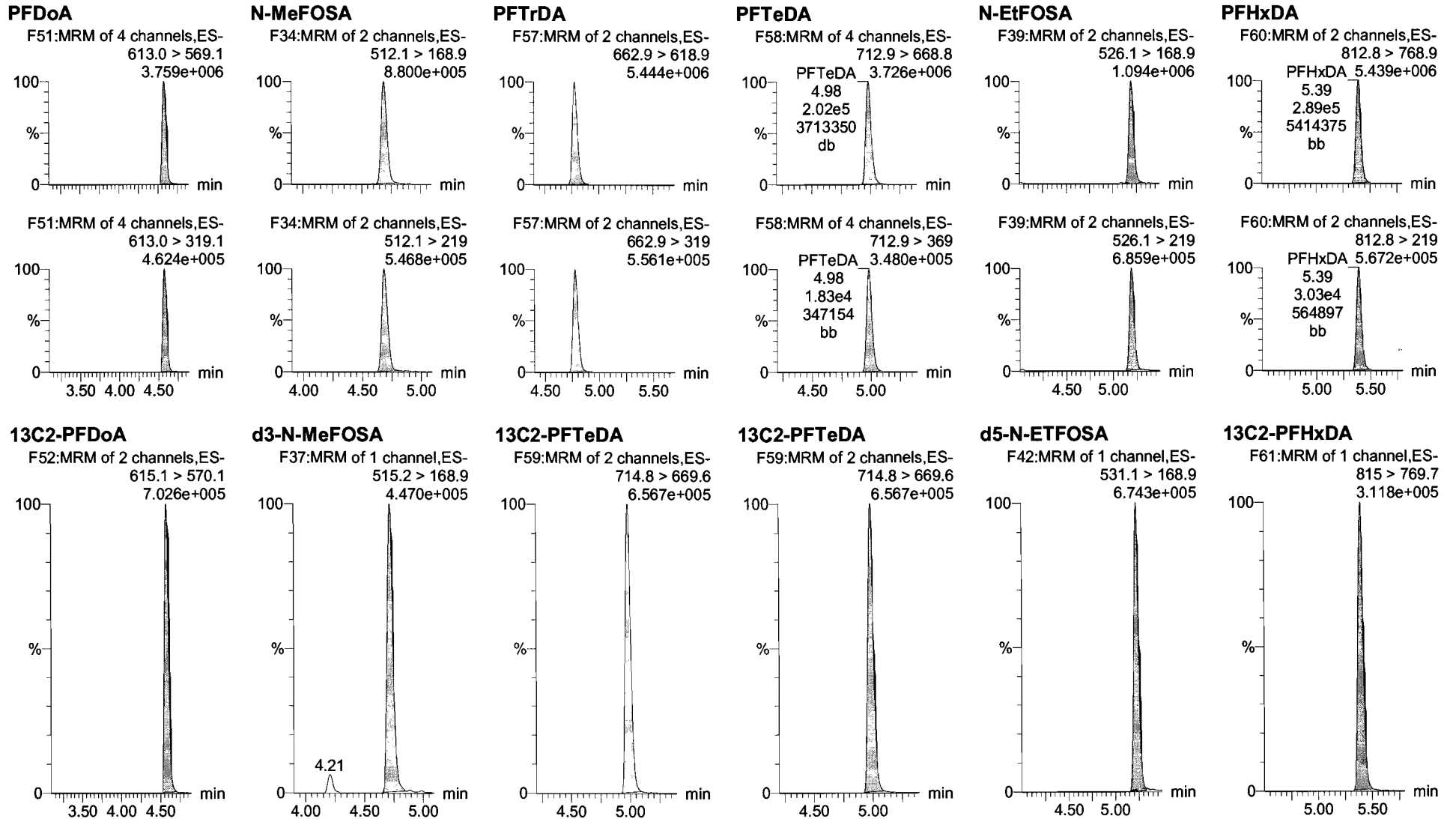


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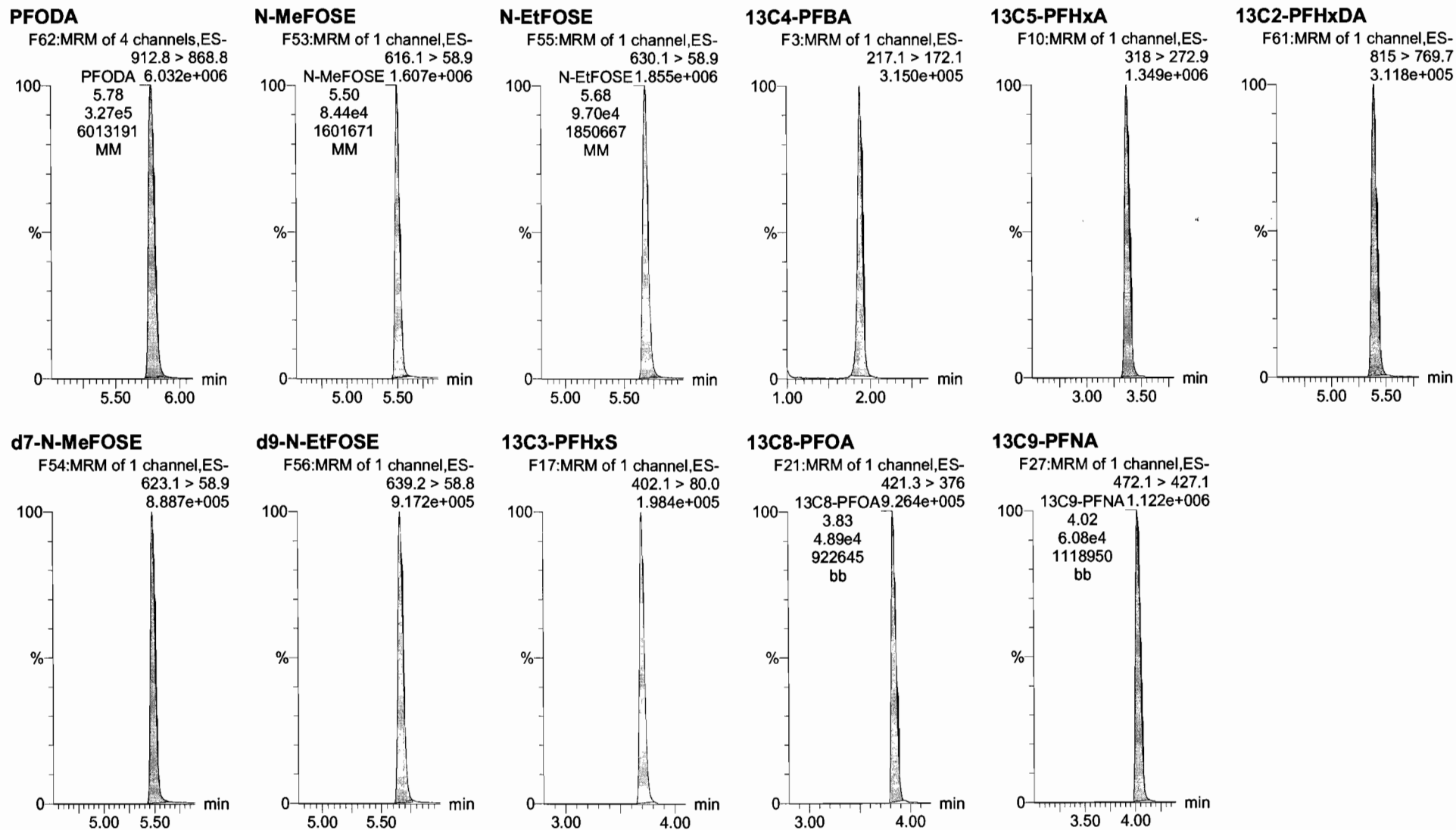
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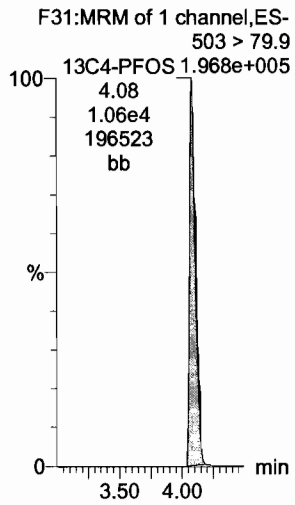


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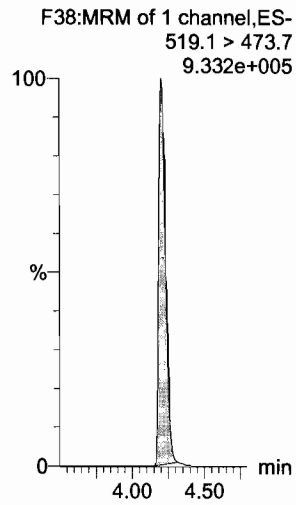
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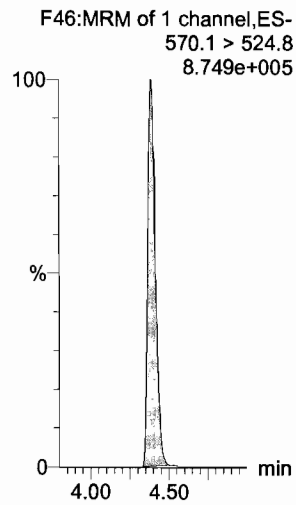
13C4-PFOS



13C6-PFDA



13C7-PFUnA

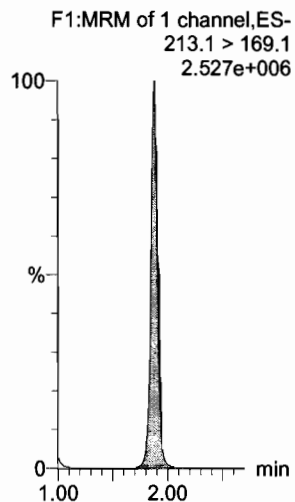


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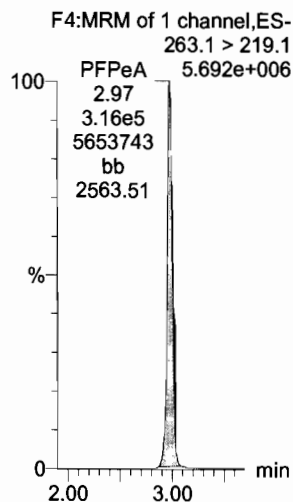
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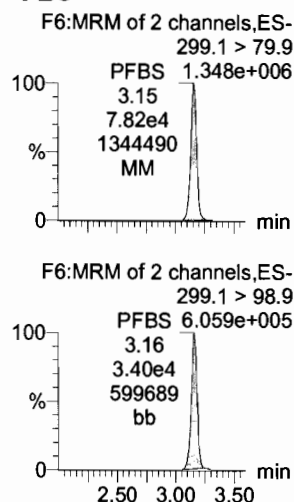
PFBA



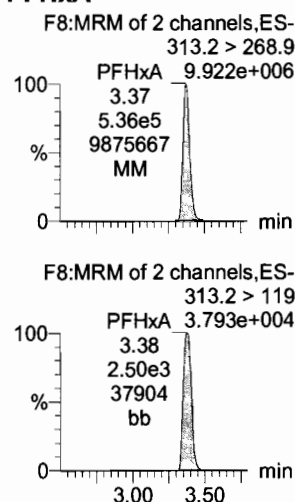
PFPeA



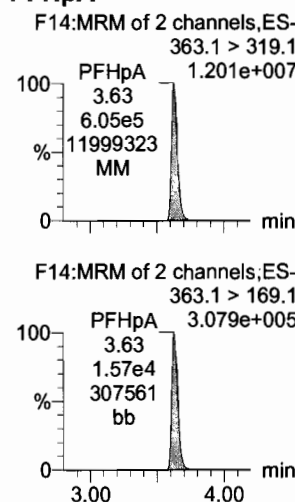
PFBS



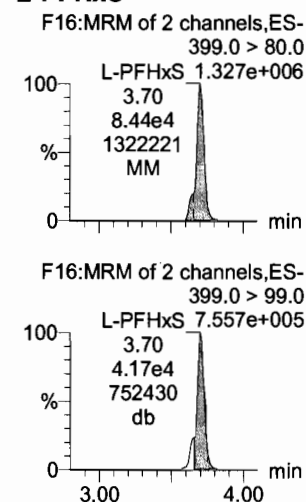
PFHxA



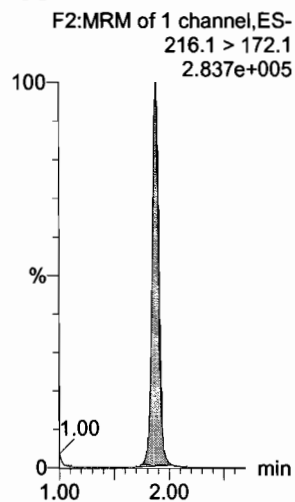
PFHpA



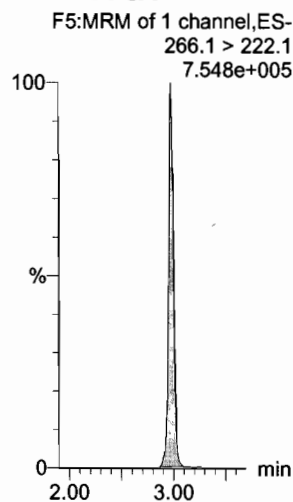
L-PFHxS



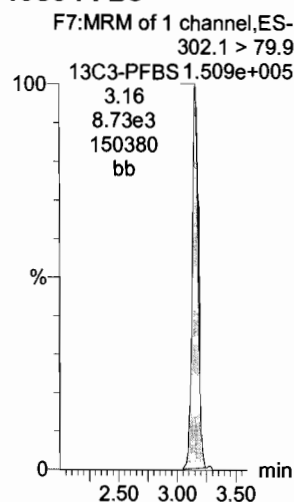
13C3-PFBA



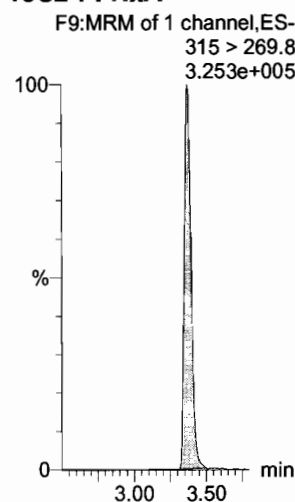
13C3-PFPeA



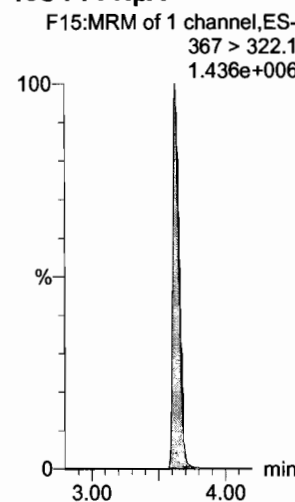
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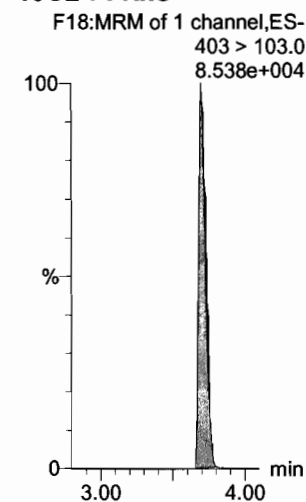
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

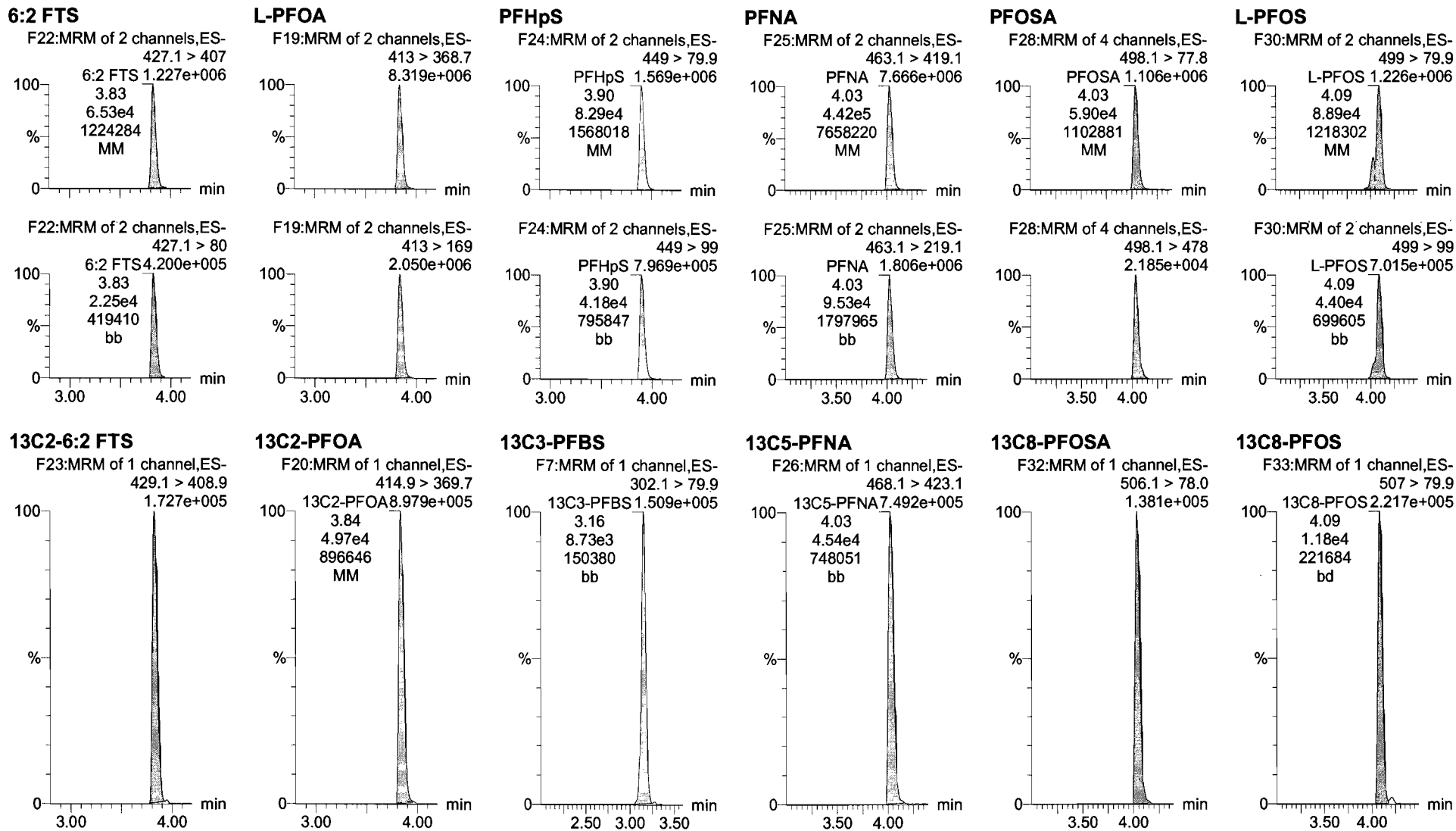


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Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_13, Date: 26-Sep-2017, Time: 11:02:58, ID: ST170926M1-8 PFC CS5 1712511, Description: PFC CS5 1712511

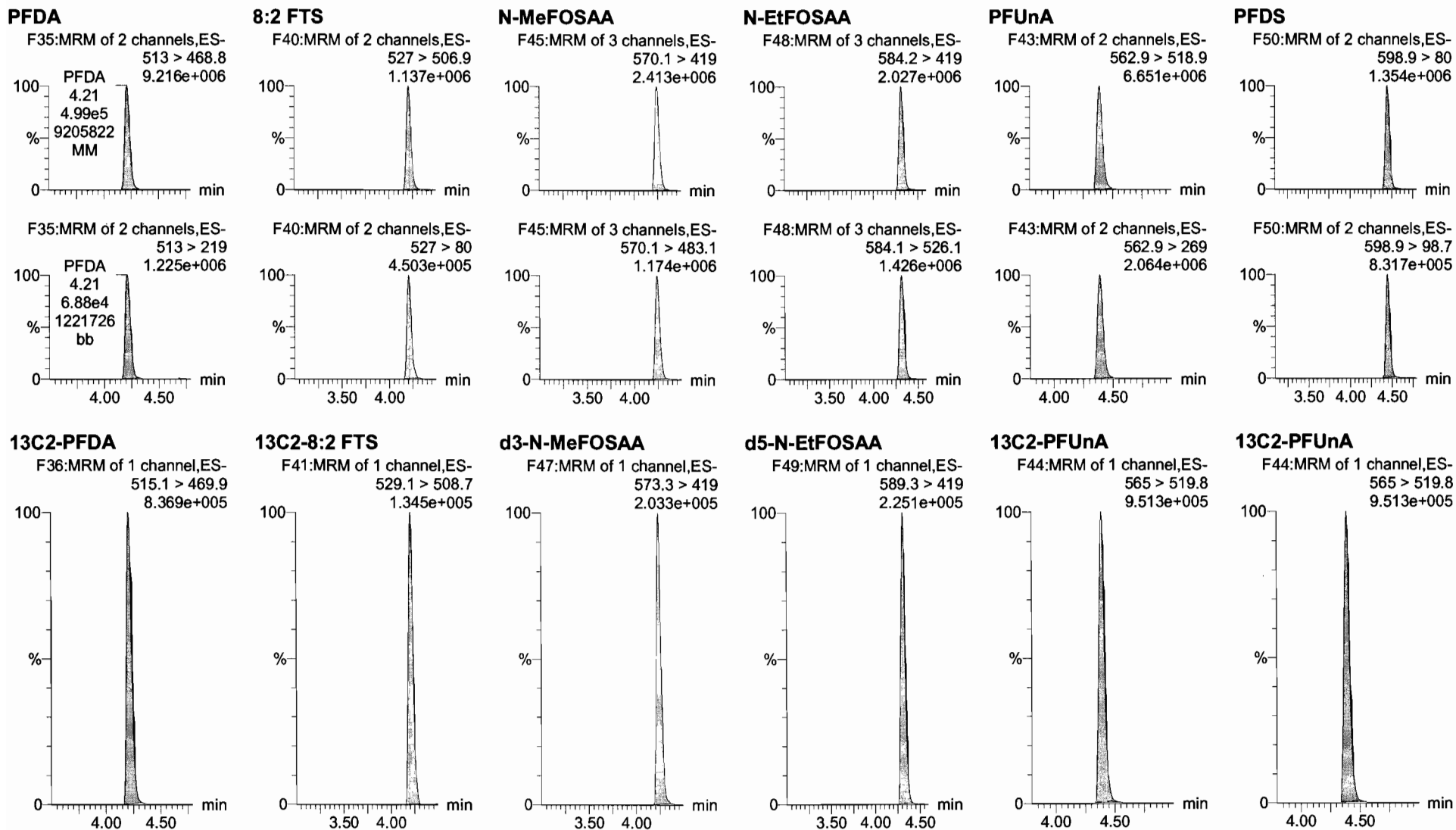


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_13, Date: 26-Sep-2017, Time: 11:02:58, ID: ST170926M1-8 PFC CS5 17I2511, Description: PFC CS5 17I2511



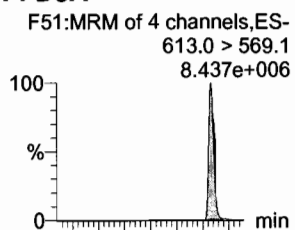
Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

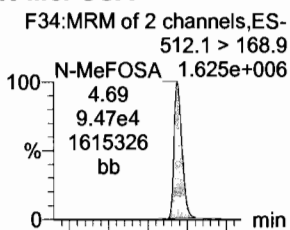
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_13, Date: 26-Sep-2017, Time: 11:02:58, ID: ST170926M1-8 PFC CS5 17I2511, Description: PFC CS5 17I2511

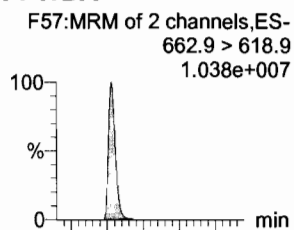
PFDoA



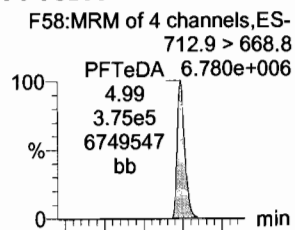
N-MeFOSA



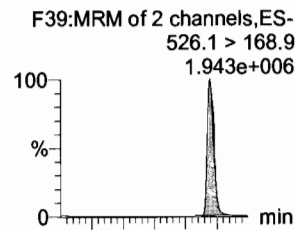
PFTrDA



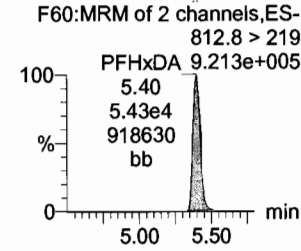
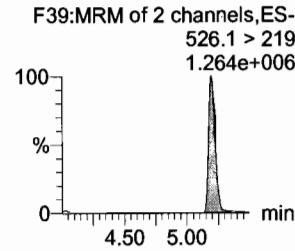
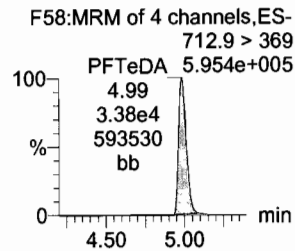
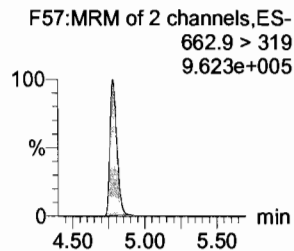
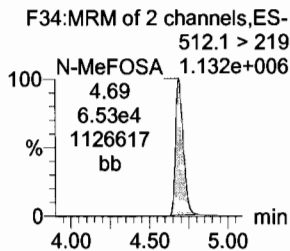
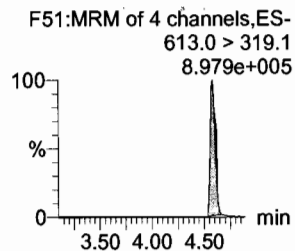
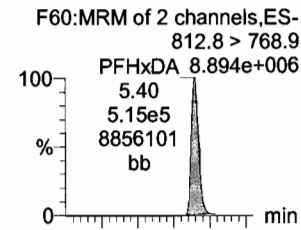
PFTeDA



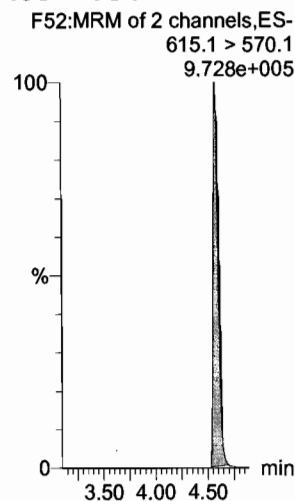
N-EtFOSA



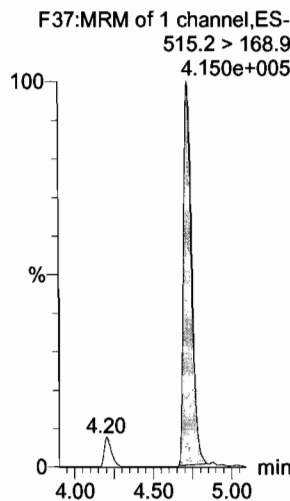
PFHxDA



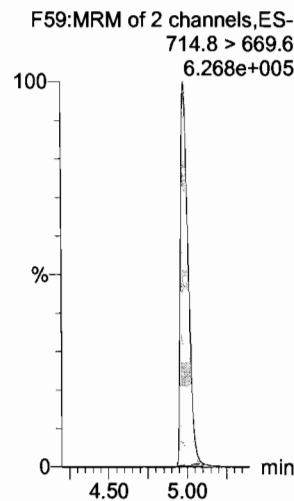
13C2-PFDoA



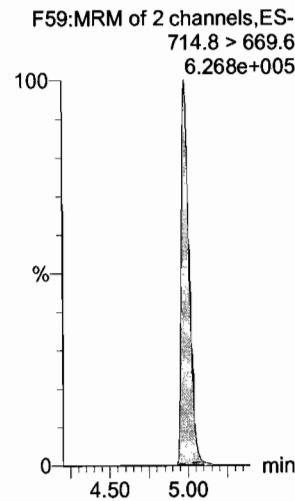
d3-N-MeFOSA



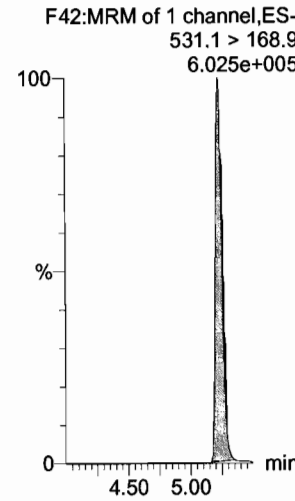
13C2-PFTeDA



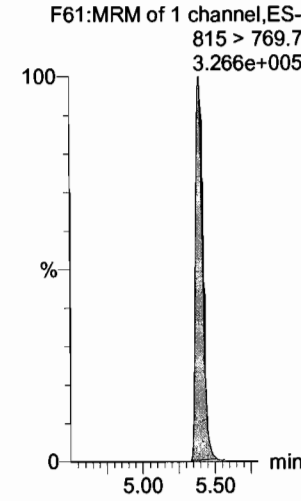
13C2-PFTeDA



d5-N-ETFOSA



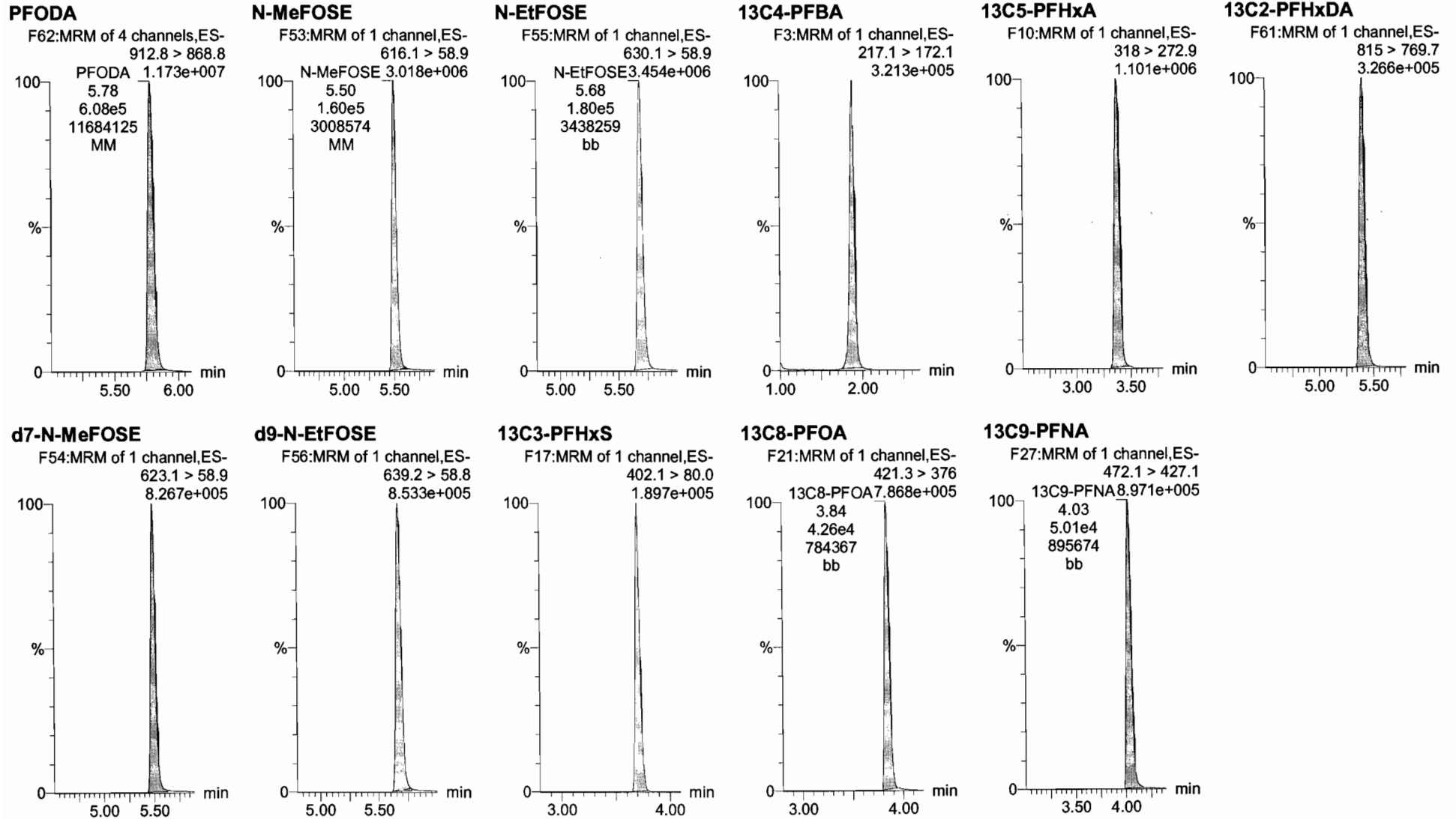
13C2-PFHxDA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_13, Date: 26-Sep-2017, Time: 11:02:58, ID: ST170926M1-8 PFC CS5 17I2511, Description: PFC CS5 17I2511



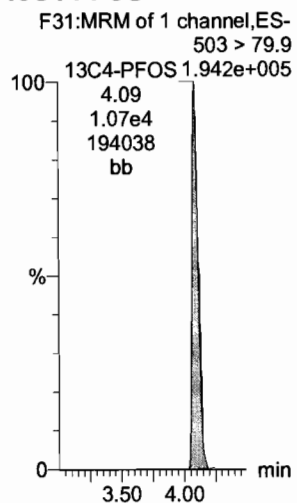
Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

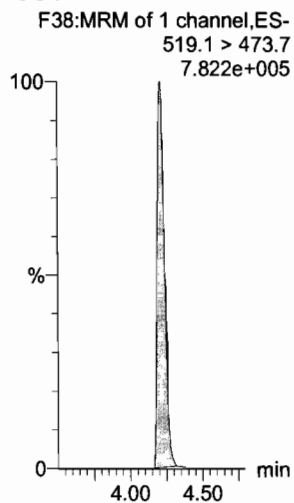
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_13, Date: 26-Sep-2017, Time: 11:02:58, ID: ST170926M1-8 PFC CS5 17I2511, Description: PFC CS5 17I2511

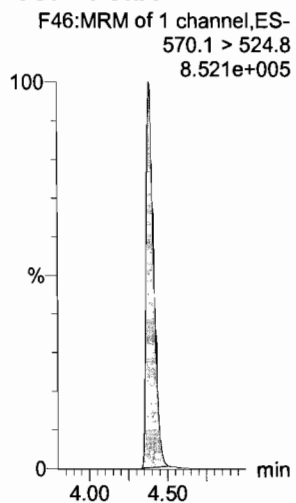
13C4-PFOS



13C6-PFDA



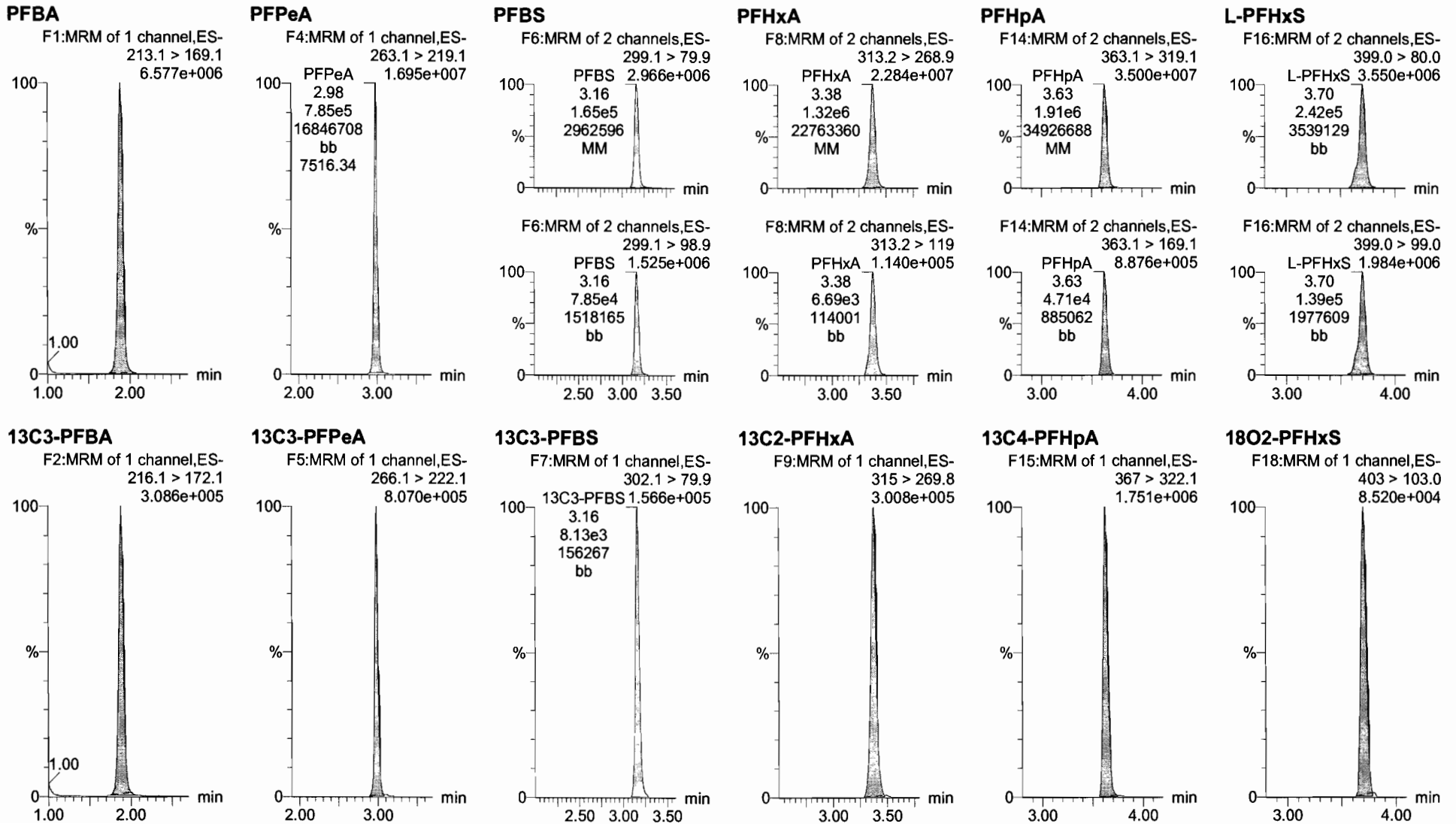
13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

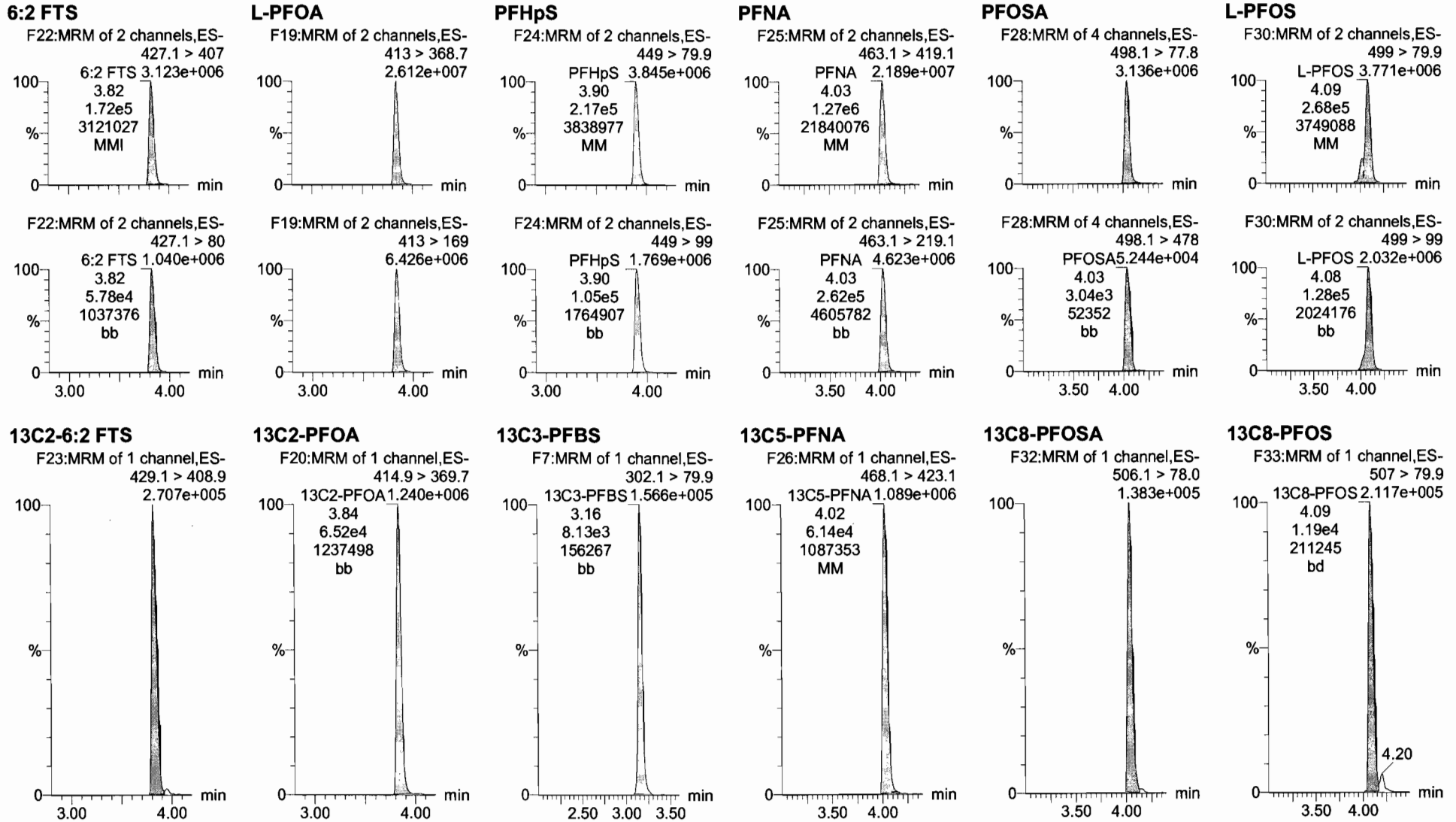
Name: 170926M1_14, Date: 26-Sep-2017, Time: 11:13:37, ID: ST170926M1-9 PFC CS6 17I2512, Description: PFC CS6 17I2512



Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_14, Date: 26-Sep-2017, Time: 11:13:37, ID: ST170926M1-9 PFC CS6 17I2512, Description: PFC CS6 17I2512



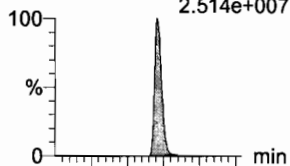
Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

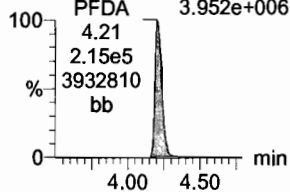
Name: 170926M1_14, Date: 26-Sep-2017, Time: 11:13:37, ID: ST170926M1-9 PFC CS6 17I2512, Description: PFC CS6 17I2512

PFDA

F35:MRM of 2 channels,ES-
513 > 468.8
2.514e+007

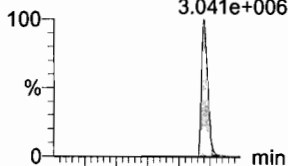


F35:MRM of 2 channels,ES-
513 > 219
3.952e+006

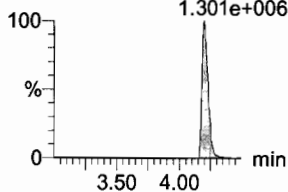


8:2 FTS

F40:MRM of 2 channels,ES-
527 > 506.9
3.041e+006

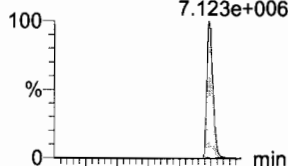


F40:MRM of 2 channels,ES-
527 > 80
1.301e+006

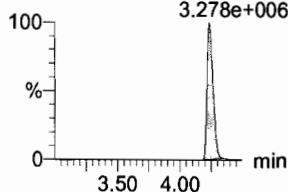


N-MeFOSAA

F45:MRM of 3 channels,ES-
570.1 > 419
7.123e+006

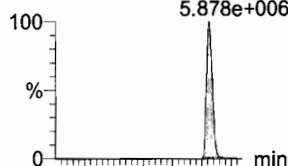


F45:MRM of 3 channels,ES-
570.1 > 483.1
3.278e+006

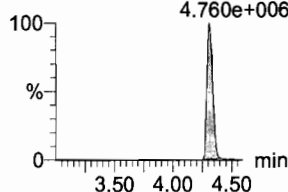


N-EtFOSAA

F48:MRM of 3 channels,ES-
584.2 > 419
5.878e+006

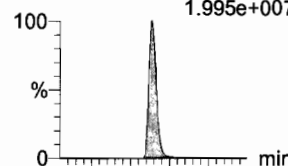


F48:MRM of 3 channels,ES-
584.1 > 526.1
4.760e+006

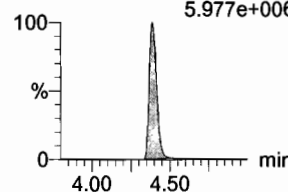


PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
1.995e+007

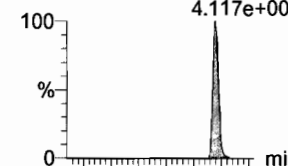


F43:MRM of 2 channels,ES-
562.9 > 269
5.977e+006

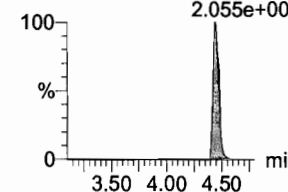


PFDS

F50:MRM of 2 channels,ES-
598.9 > 80
4.117e+006

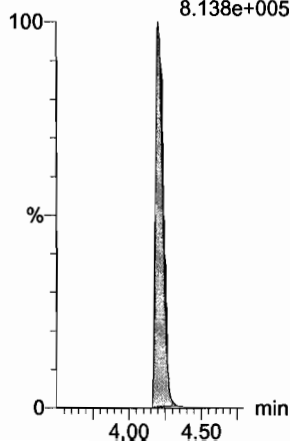


F50:MRM of 2 channels,ES-
598.9 > 98.7
2.055e+006



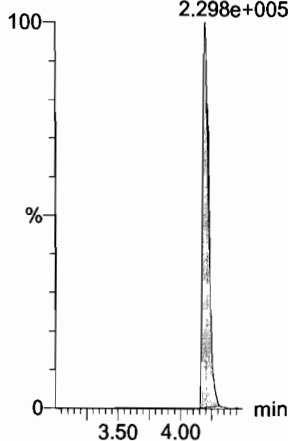
13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
8.138e+005



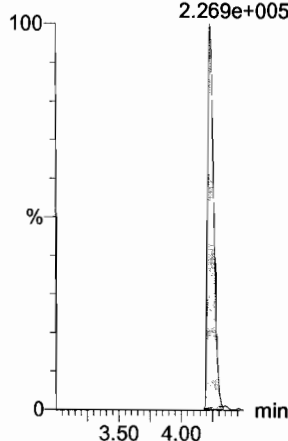
13C2-8:2 FTS

F41:MRM of 1 channel,ES-
529.1 > 508.7
2.298e+005



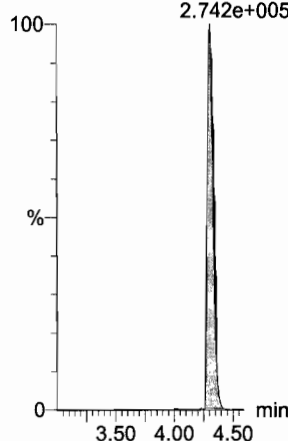
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
2.269e+005



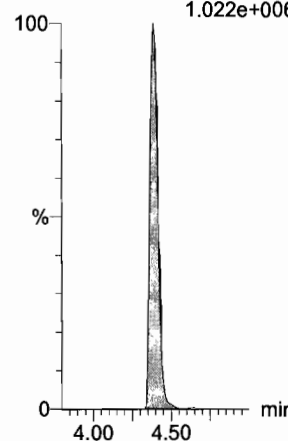
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
2.742e+005



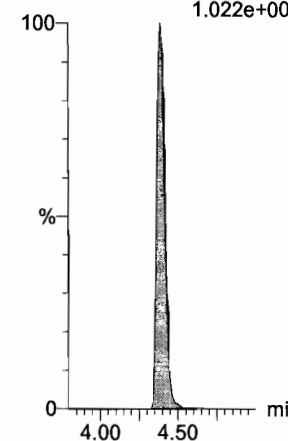
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.022e+006



13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.022e+006

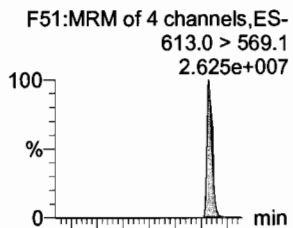


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

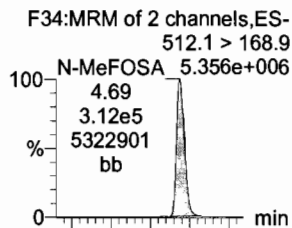
Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_14, Date: 26-Sep-2017, Time: 11:13:37, ID: ST170926M1-9 PFC CS6 17I2512, Description: PFC CS6 17I2512

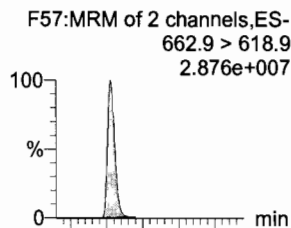
PFDoA



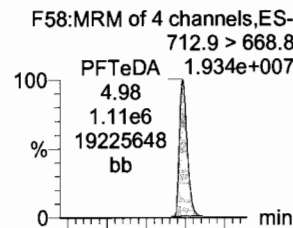
N-MeFOSA



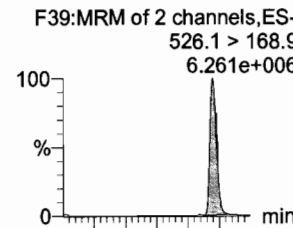
PFTrDA



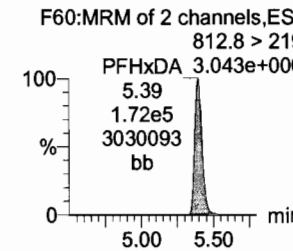
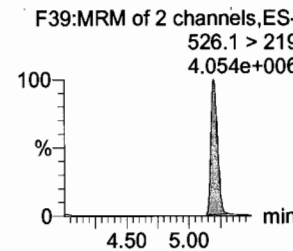
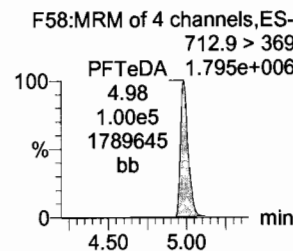
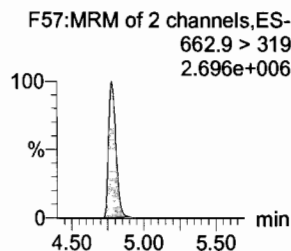
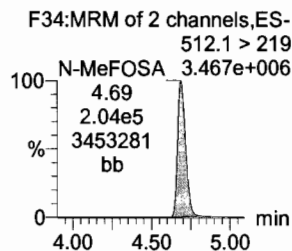
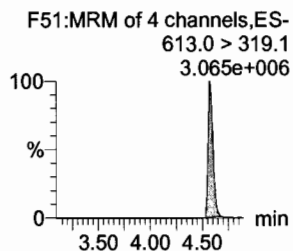
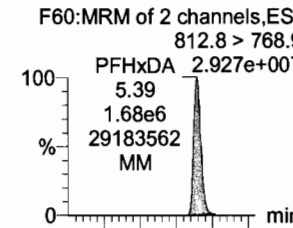
PFTeDA



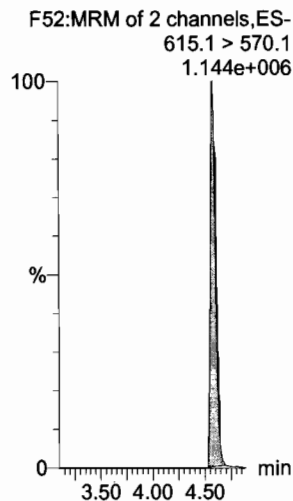
N-EtFOSA



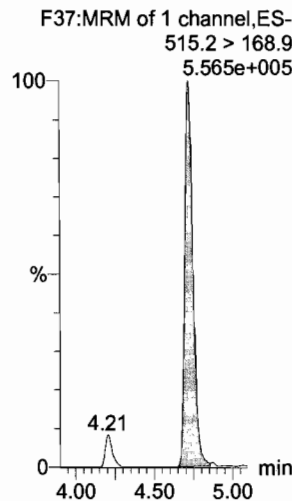
PFHxDA



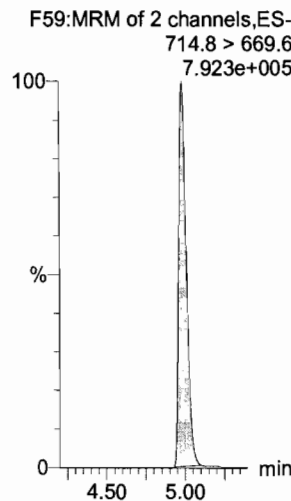
13C2-PFDoA



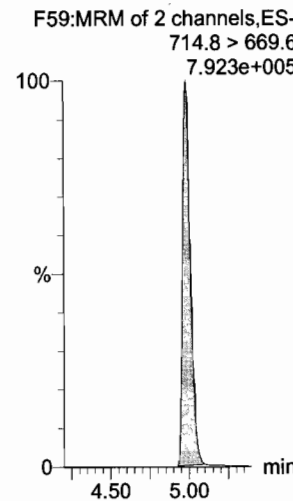
d3-N-MeFOSA



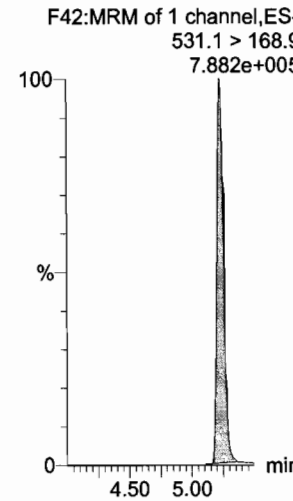
13C2-PFTeDA



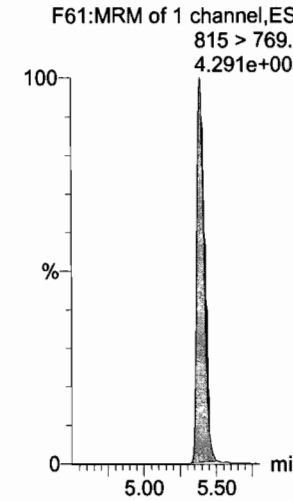
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA

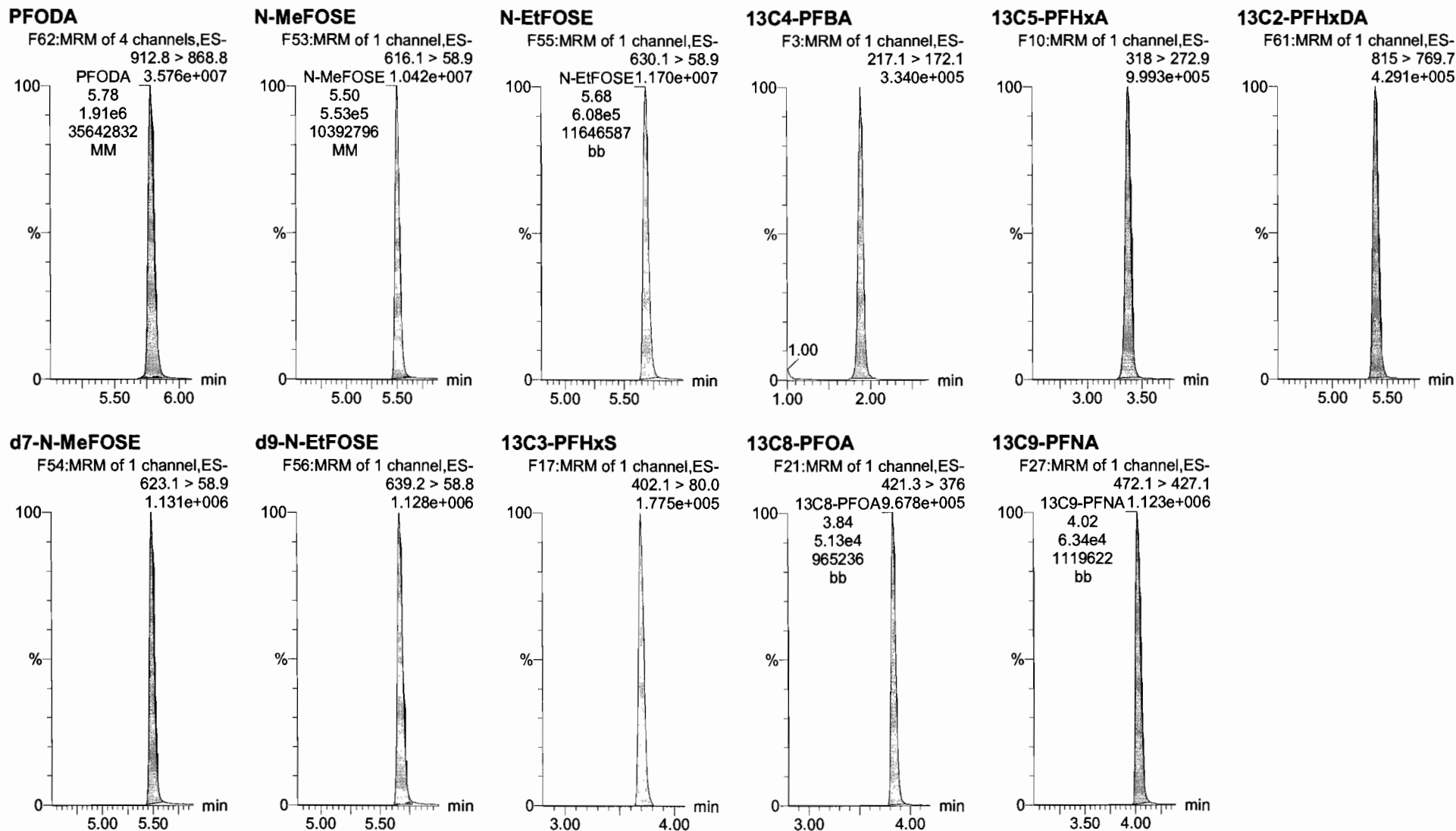


Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_14, Date: 26-Sep-2017, Time: 11:13:37, ID: ST170926M1-9 PFC CS6 17I2512, Description: PFC CS6 17I2512



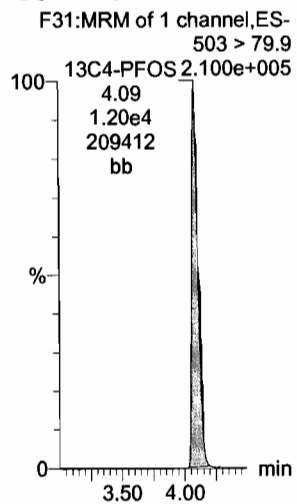
Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:00:04 Pacific Daylight Time

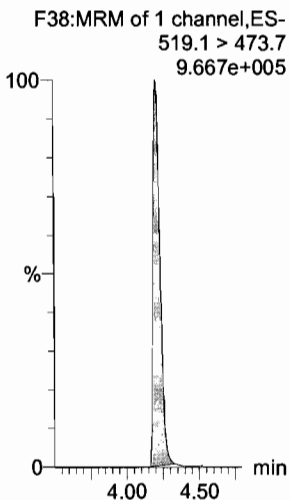
Printed: Tuesday, September 26, 2017 14:03:04 Pacific Daylight Time

Name: 170926M1_14, Date: 26-Sep-2017, Time: 11:13:37, ID: ST170926M1-9 PFC CS6 17I2512, Description: PFC CS6 17I2512

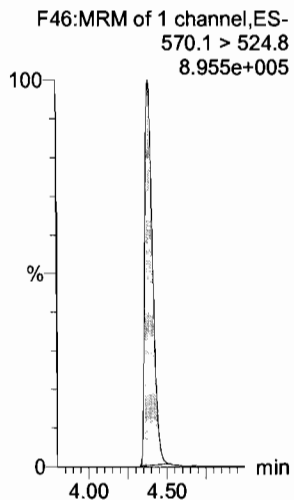
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170926M1\170926M1-17.qld

Last Altered: Tuesday, September 26, 2017 14:37:23 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:42:03 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_17, Date: 26-Sep-2017, Time: 11:45:48, ID: ICV170926M1-1 PFC ICV 1712514, Description: PFC ICV 1712514

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.74e4	1.91e4		1.88	1.88	11.3	9.72	97.2
2	2 PFPeA	263.1 > 219.1	3.42e4	3.91e4		2.98	2.98	10.9	10.3	102.8
3	3 PFBS	299.1 > 79.9	6.85e3	8.90e3		3.17	3.15	9.63	9.21	92.1
4	4 PFHxA	313.2 > 268.9	6.06e4	1.87e4		3.37	3.37	16.2	10.4	104.3
5	5 PFHpA	363.1 > 319.1	6.21e4	7.62e4		3.63	3.63	10.2	9.95	99.5
6	6 L-PFHxS	399.0 > 80.0	8.04e3	5.52e3		3.71	3.70	18.2	7.75	77.5
7	8 6:2 FTS	427.1 > 407	7.31e3	8.68e3		3.84	3.83	10.5	9.12	91.2
8	9 L-PFOA	413 > 368.7	4.69e4	5.58e4		3.84	3.84	10.5	9.68	96.8
9	11 PFHpS	449 > 79.9	9.03e3	5.58e4		3.90	3.90	2.02	8.92	89.2
10	12 PFNA	463.1 > 419.1	4.72e4	5.09e4		4.03	4.02	11.6	10.4	104.4
11	13 PFOSA	498.1 > 77.8	6.25e3	7.56e3		4.04	4.04	10.3	9.31	93.1
12	14 L-PFOS	499 > 79.9	1.02e4	1.09e4		4.08	4.09	11.8	11.0	110.3
13	16 PFDA	513 > 468.8	5.51e4	4.41e4		4.21	4.21	15.6	10.5	105.4
14	17 8:2 FTS	527 > 506.9	7.87e3	6.38e3		4.21	4.20	15.4	9.48	94.8
15	18 N-MeFOSAA	570.1 > 419	1.57e4	1.26e4		4.24	4.24	203	8.93	89.3
16	19 N-EtFOSAA	584.2 > 419	1.22e4	1.26e4		4.32	4.31	157	9.70	97.0
17	20 PFUnA	562.9 > 518.9	4.12e4	5.19e4		4.39	4.39	9.92	9.94	99.4
18	21 PFDS	598.9 > 80	8.88e3	5.19e4		4.45	4.44	2.14	9.71	97.1
19	22 PFDoA	613.0 > 569.1	4.66e4	5.62e4		4.59	4.59	10.4	8.57	85.7
20	23 N-MeFOSA	512.1 > 168.9		2.42e4		4.70				
21	24 PFTrDA	662.9 > 618.9	6.25e4	5.62e4		4.78	4.78	13.9	8.89	88.9
22	25 PFTeDA	712.9 > 668.8	3.99e4	3.51e4		4.99	4.98	14.2	10.2	101.9
23	26 N-EtFOSA	526.1 > 168.9		3.59e4		5.20				
24	27 PFHxDA	812.8 > 768.9		1.86e4		5.40				
25	28 PFODA	912.8 > 868.8		1.86e4		5.79				
26	29 N-MeFOSE	616.1 > 58.9		4.28e4		5.50				
27	30 N-EtFOSE	630.1 > 58.9		4.31e4		5.68				
28	31 13C3-PFBA	216.1 > 172.1	1.91e4	2.06e4	0.890	1.88	1.88	11.6	13.0	104.3
29	32 13C3-PFPeA	266.1 > 222.1	3.91e4	6.19e4	0.236	2.98	2.98	3.15	13.4	106.9
30	33 13C3-PFBS	302.1 > 79.9	8.90e3	6.19e4	0.056	3.17	3.15	0.718	12.9	102.9
31	34 13C3-PFHxA	315 > 269.8	1.87e4	6.19e4	0.283	3.37	3.37	1.51	5.33	106.7

70-130

70-150

DM
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JHA
9/26/2017

Dataset: U:\Q4.PRO\results\170926M1\170926M1-17.qld

Last Altered: Tuesday, September 26, 2017 14:37:23 Pacific Daylight Time

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Name: 170926M1_17, Date: 26-Sep-2017, Time: 11:45:48, ID: ICV170926M1-1 PFC ICV 1712514, Description: PFC ICV 1712514

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35	13C4-PFHpA	367 > 322.1	7.62e4	6.19e4	0.499	3.63	3.63	6.16	12.3	98.6
33	36	18O2-PFHxS	403 > 103.0	5.52e3	1.01e4	0.482	3.71	3.70	6.83	14.1	113.2
34	37	13C2-6:2 FTS	429.1 > 408.9	8.68e3	4.73e4	0.183	3.84	3.83	2.29	12.5	100.2
35	38	13C2-PFOA	414.9 > 369.7	5.58e4	4.73e4	1.158	3.84	3.84	14.8	12.7	102.0
36	39	13C5-PFNA	468.1 > 423.1	5.09e4	5.25e4	0.888	4.03	4.02	12.1	13.6	109.1
37	40	13C8-PFOA	506.1 > 78.0	7.56e3	5.12e4	0.143	4.04	4.03	1.85	12.9	103.5
38	41	13C8-PFOS	507 > 79.9	1.09e4	9.44e3	1.013	4.08	4.09	14.4	14.2	113.9
39	42	13C2-PFDA	515.1 > 469.9	4.41e4	4.39e4	0.876	4.21	4.21	12.5	14.3	114.6
40	43	13C2-8:2 FTS	529.1 > 508.7	6.38e3	4.39e4	0.148	4.21	4.20	1.82	12.3	98.4
41	44	d3-N-MeFOSAA	573.3 > 419	1.26e4	5.12e4	0.017	4.24	4.24	3.07	180	110.8
42	45	d5-N-EtFOSAA	589.3 > 419	1.26e4	5.12e4	0.019	4.32	4.31	3.07	165	101.8
43	46	13C2-PFUnA	565 > 519.8	5.19e4	5.12e4	0.959	4.39	4.39	12.7	13.2	105.6
44	47	13C2-PFDoA	615.1 > 570.1	5.62e4	5.12e4	1.003	4.59	4.58	13.7	13.7	109.4
45	48	d3-N-MeFOSA	515.2 > 168.9	2.42e4	5.12e4	0.041	4.70	4.72	5.90	142	94.8
46	49	13C2-PFTeDA	714.8 > 669.6	3.51e4	5.12e4	0.716	4.99	4.98	8.57	12.0	95.7
47	50	d5-N-ETFOSA	531.1 > 168.9	3.59e4	5.12e4	0.063	5.20	5.23	8.76	138	92.2
48	51	13C2-PFHxDA	815 > 769.7	1.86e4	5.12e4	0.892	5.40	5.39	4.53	5.08	101.5
49	52	d7-N-MeFOSE	623.1 > 58.9	4.28e4	5.12e4	0.075	5.50	5.49	10.5	139	92.3
50	53	d9-N-EtFOSE	639.2 > 58.8	4.31e4	5.12e4	0.076	5.68	5.67	10.5	137	91.7
51	54	13C4-PFBA	217.1 > 172.1	2.06e4	2.06e4	1.000	1.88	1.88	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	6.19e4	6.19e4	1.000	3.37	3.37	5.00	5.00	100.0
53	56	13C3-PFHxS	402.1 > 80.0	1.01e4	1.01e4	1.000	3.71	3.70	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	4.73e4	4.73e4	1.000	3.84	3.84	12.5	12.5	100.0
55	58	13C9-PFNA	472.1 > 427.1	5.25e4	5.25e4	1.000	4.03	4.03	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	9.44e3	9.44e3	1.000	4.08	4.09	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	4.39e4	4.39e4	1.000	4.21	4.21	12.5	12.5	100.0
58	61	13C7-PFUnA	570.1 > 524.8	5.12e4	5.12e4	1.000	4.39	4.39	12.5	12.5	100.0

50-150

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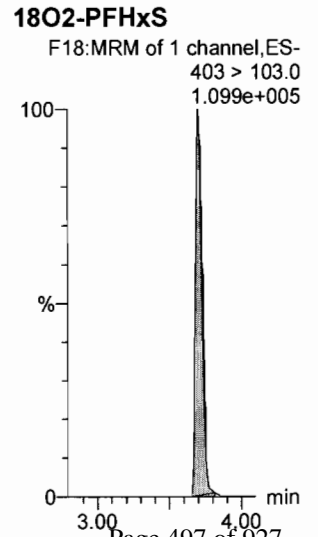
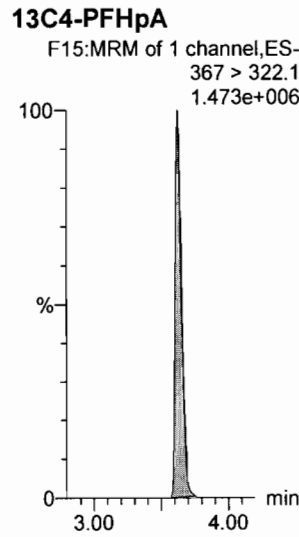
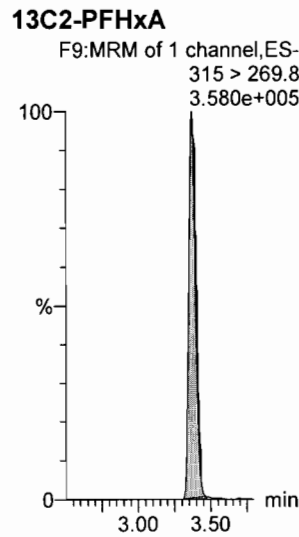
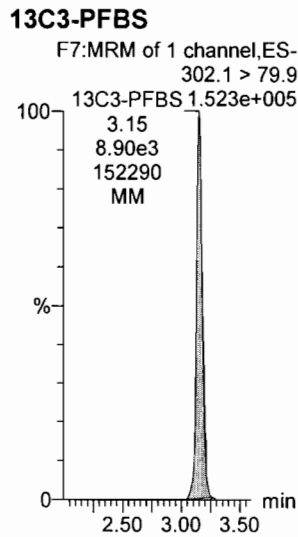
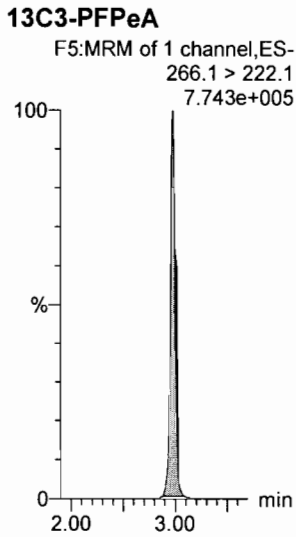
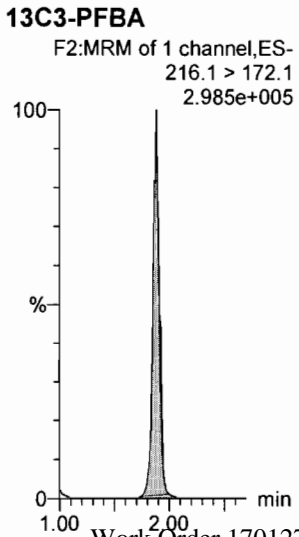
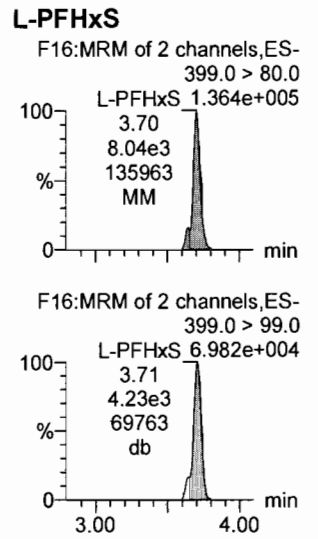
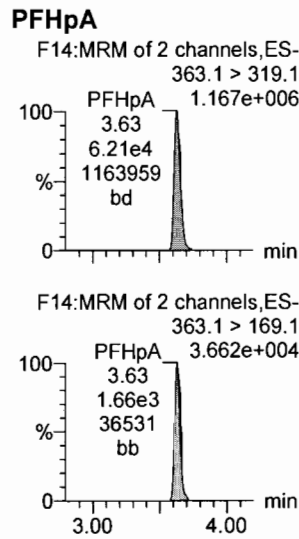
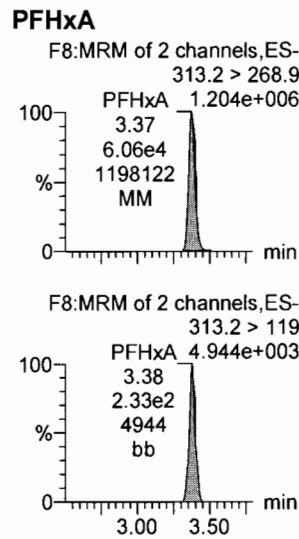
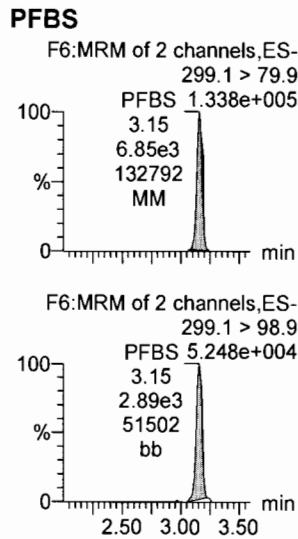
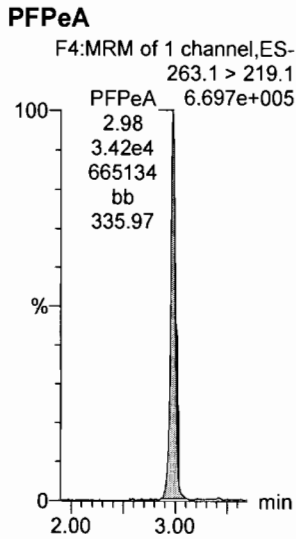
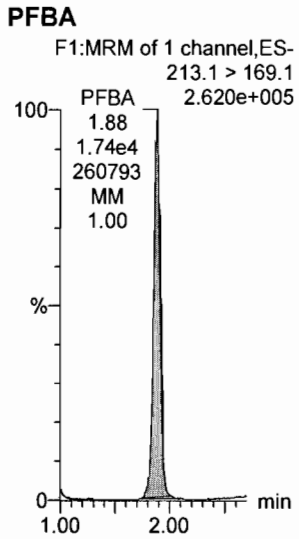
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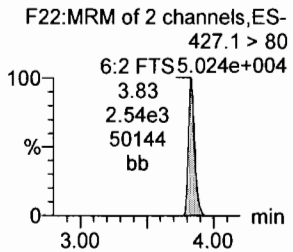
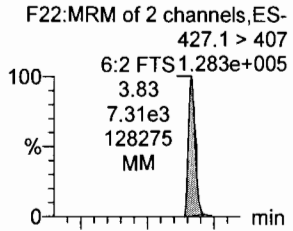
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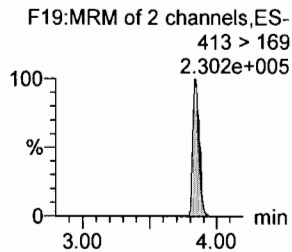
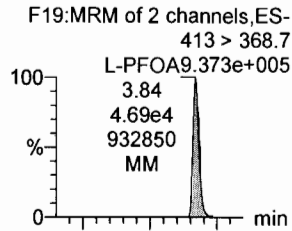
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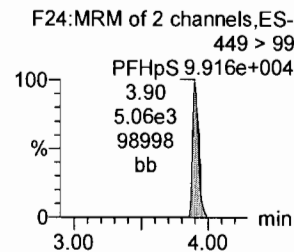
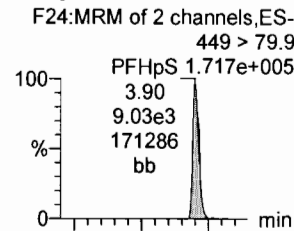
6:2 FTS



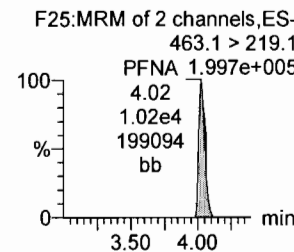
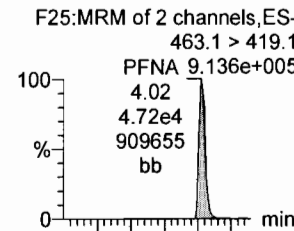
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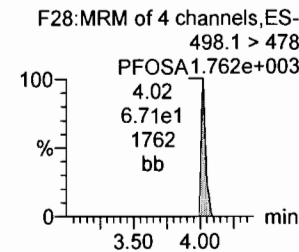
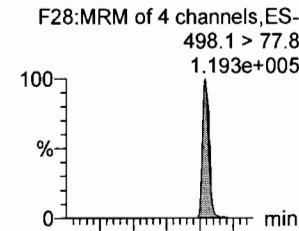
PFHpS



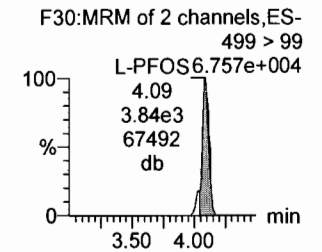
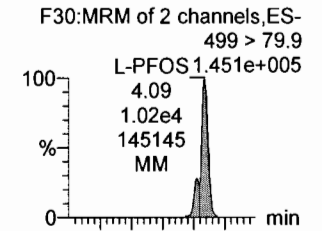
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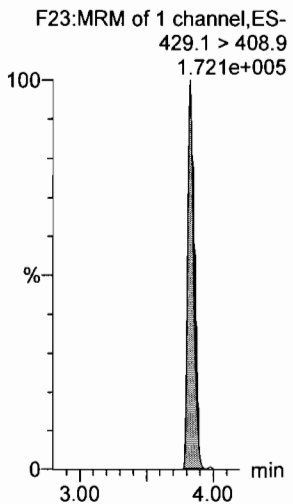
PFOSA



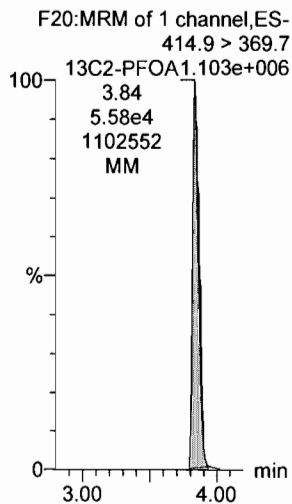
L-PFOS



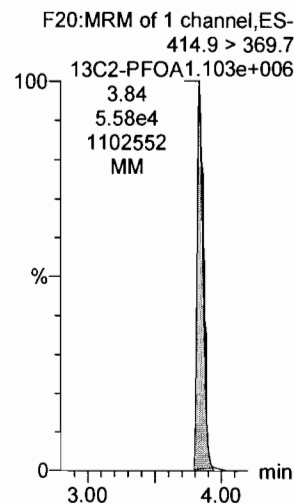
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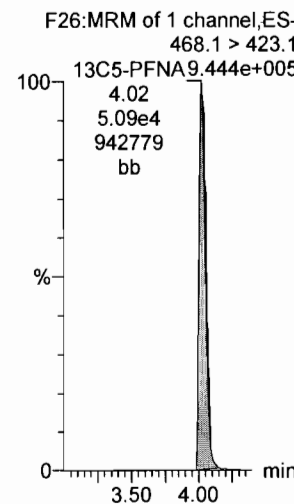
13C2-PFOA



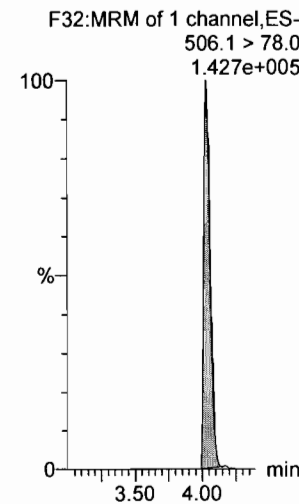
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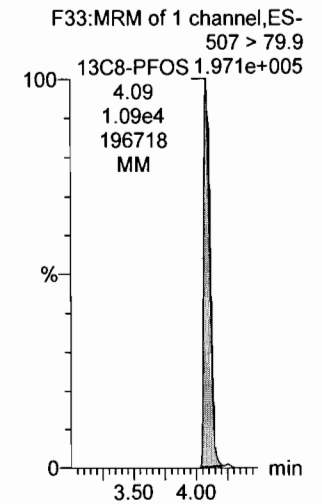
13C5-PFNA



13C8-PFOSA



13C8-PFOS

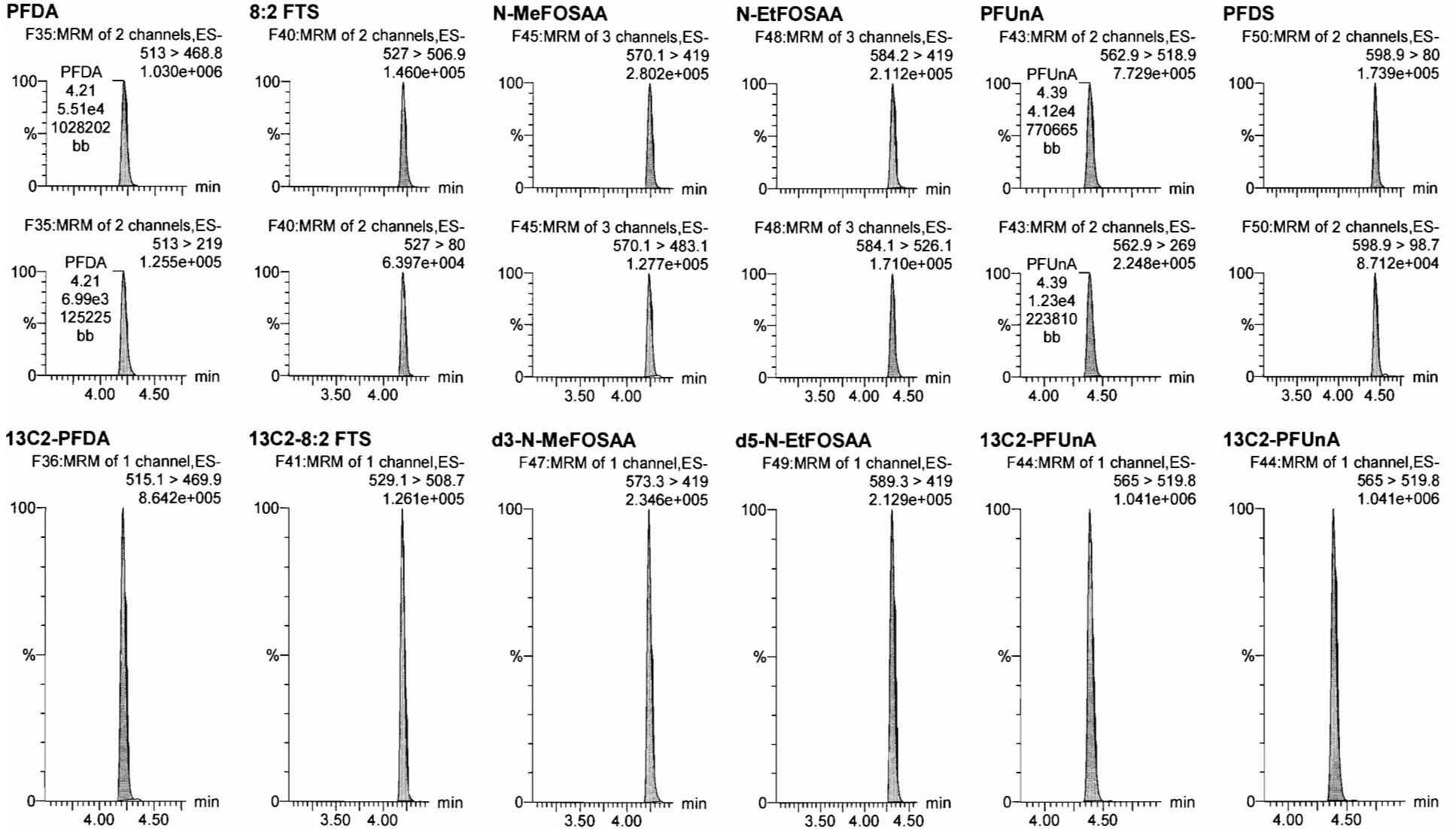


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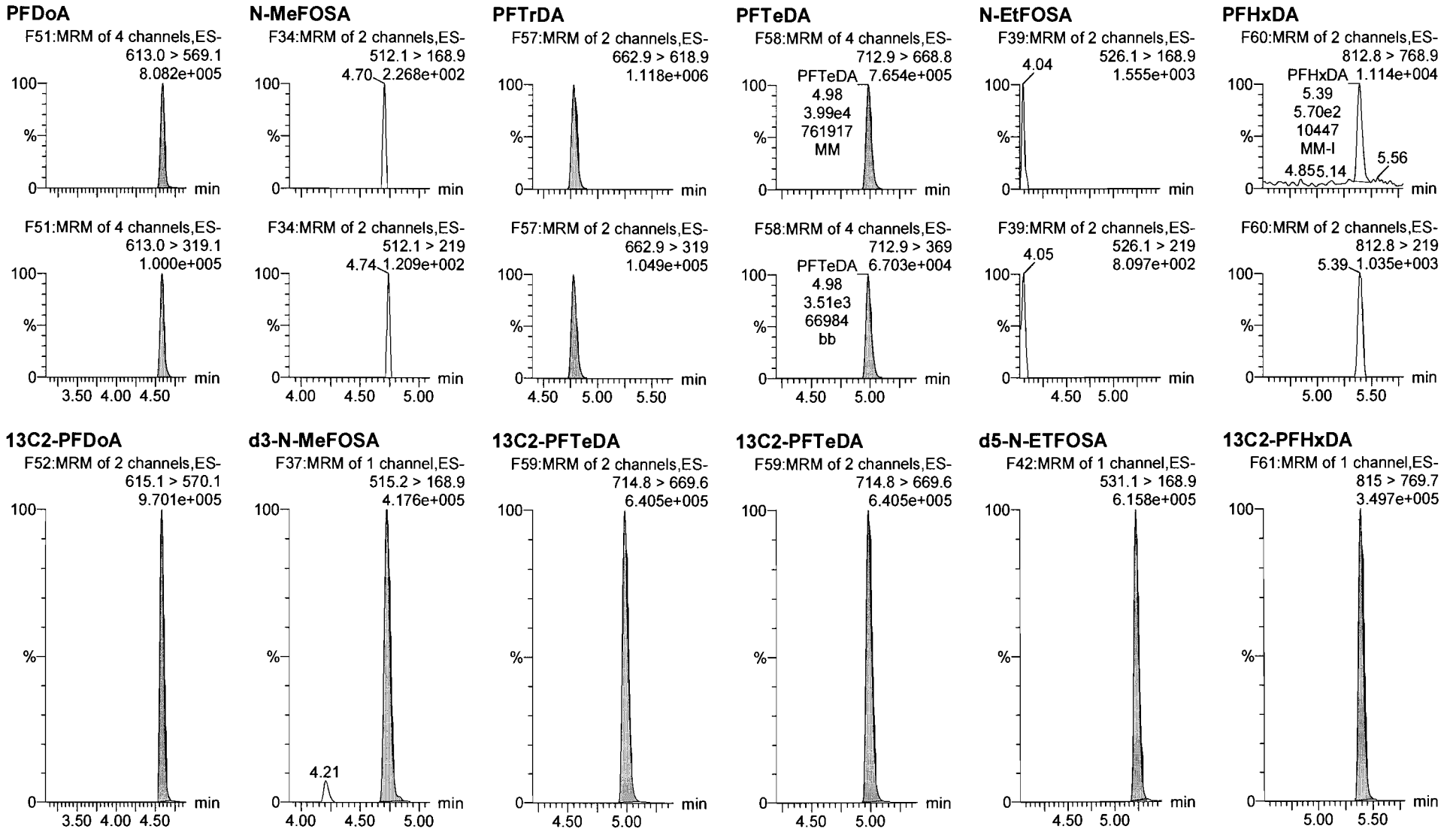


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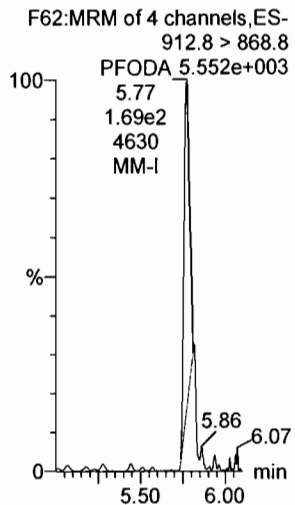
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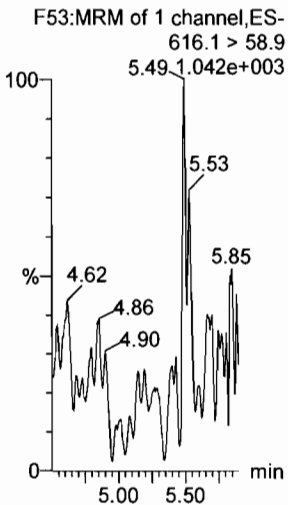
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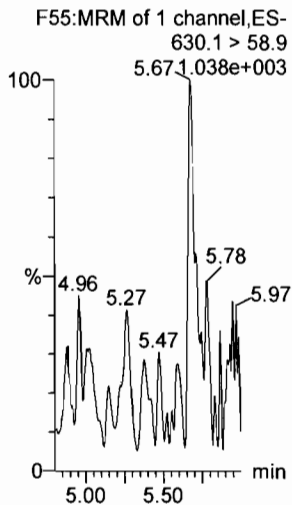
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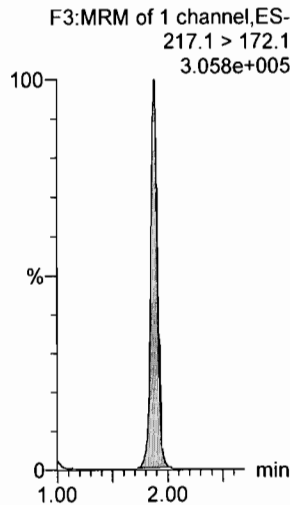
N-MeFOSE



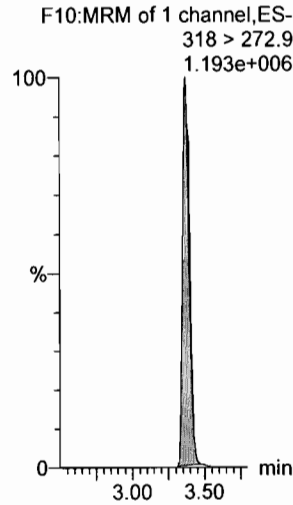
N-EtFOSE



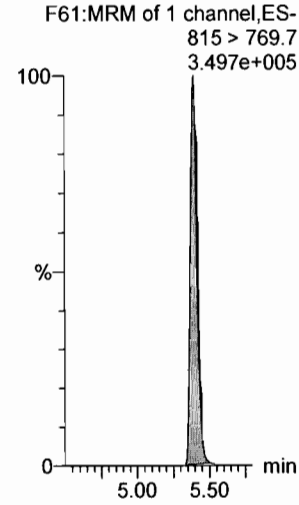
13C4-PFBA



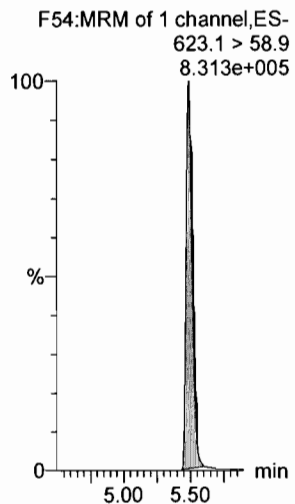
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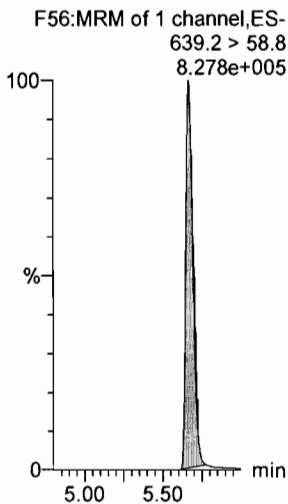
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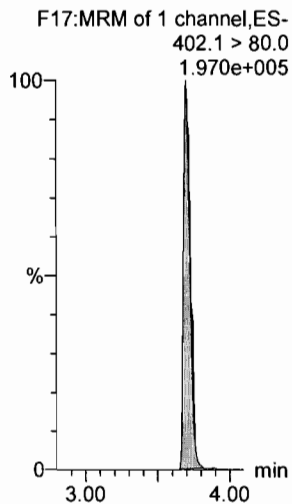
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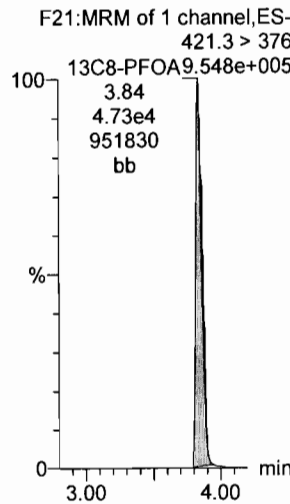
d9-N-EtFOSE



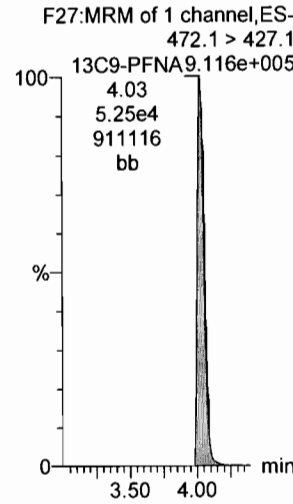
13C3-PFHxS



13C8-PFOA



13C9-PFNA



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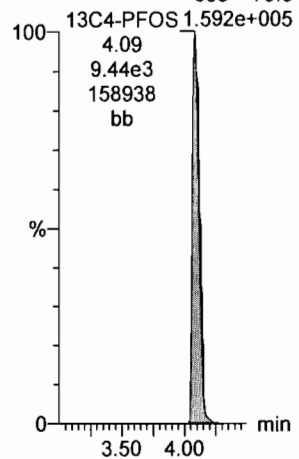
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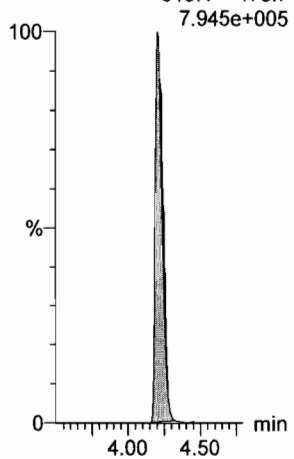
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9



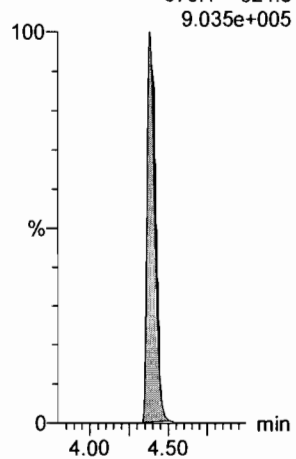
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8



Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

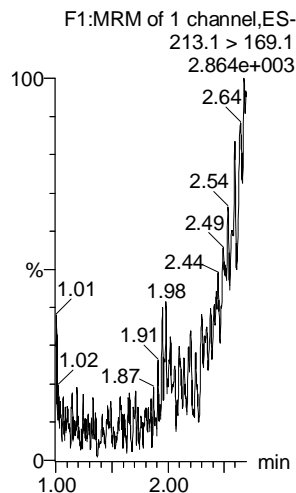
Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

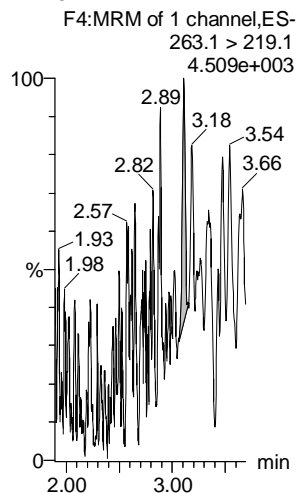
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

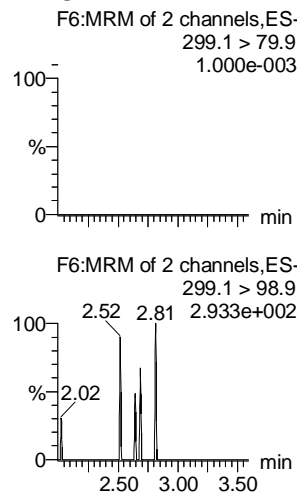
PFBA



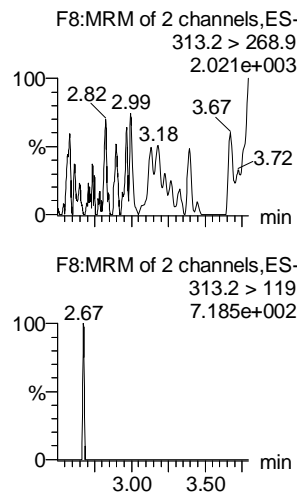
PFPeA



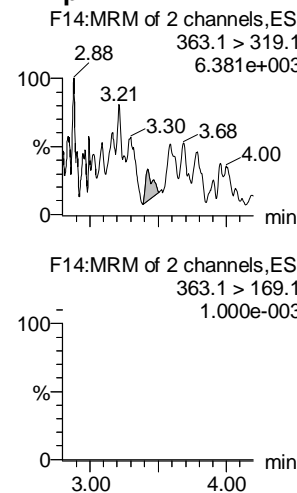
PFBS



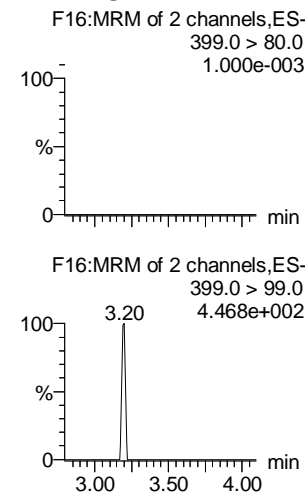
PFHxA



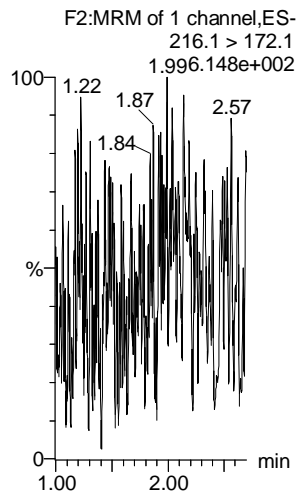
PFHpA



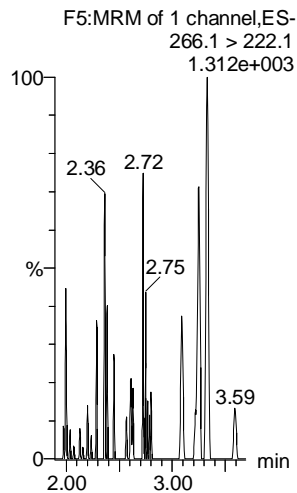
L-PFHxS



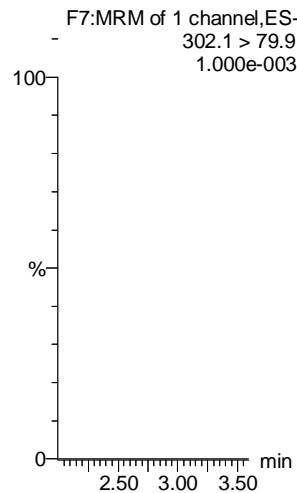
13C3-PFBA



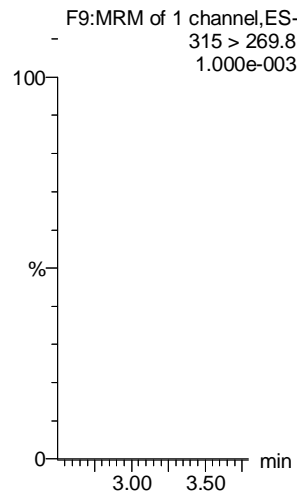
13C3-PFPeA



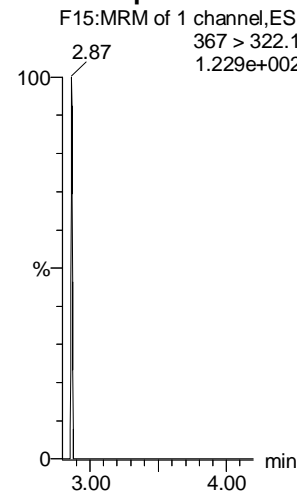
13C3-PFBS



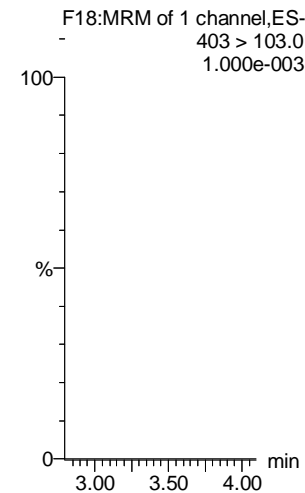
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

6:2 FTS

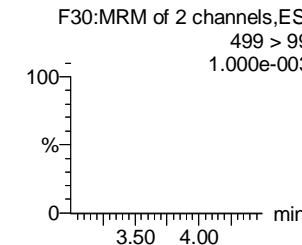
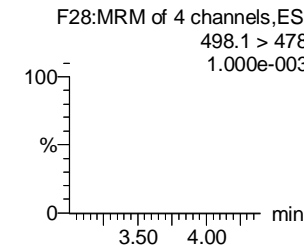
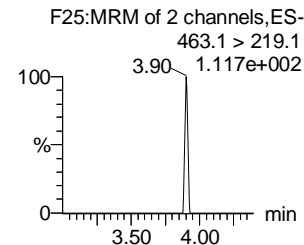
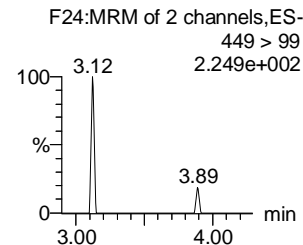
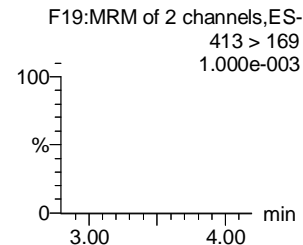
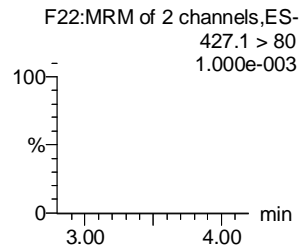
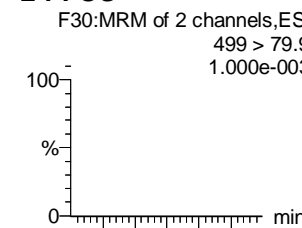
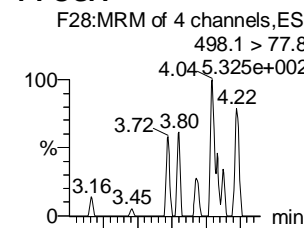
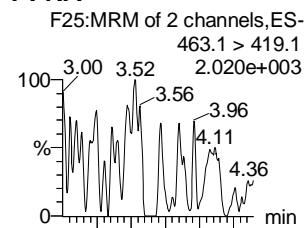
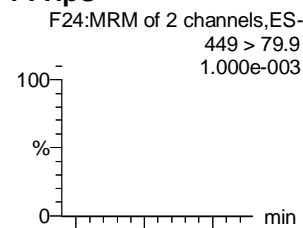
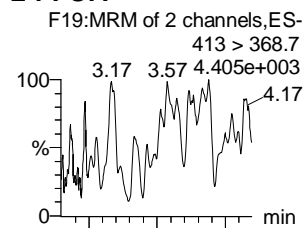
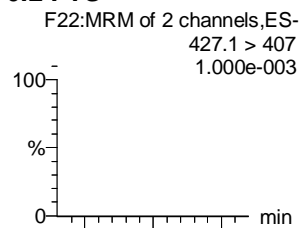
L-PFOA

PFHpS

PFNA

PFOSA

L-PFOS



13C2-6:2 FTS

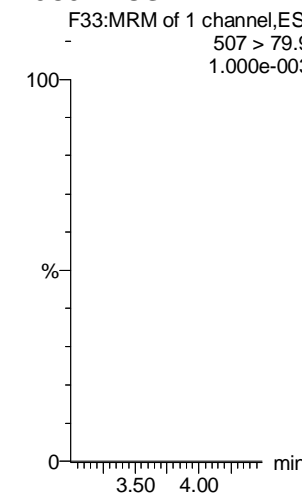
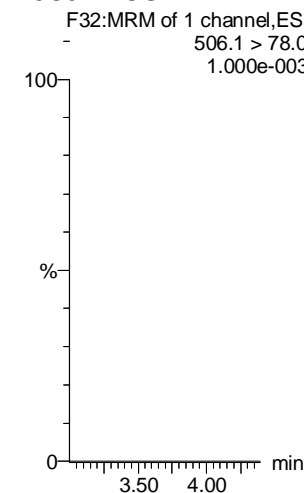
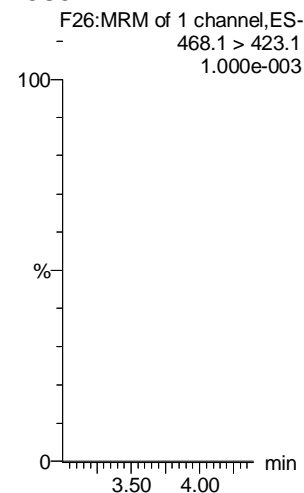
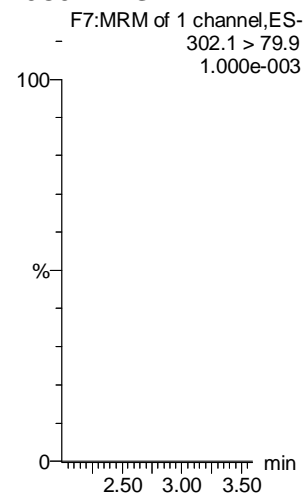
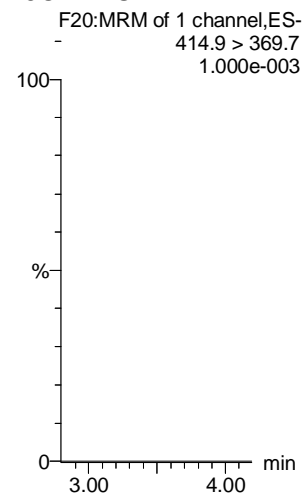
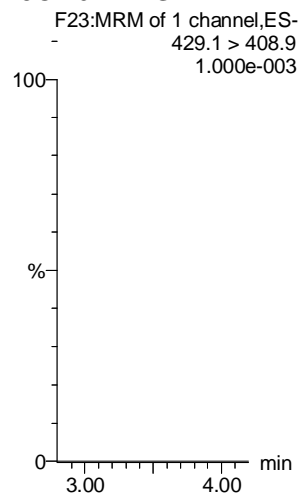
13C2-PFOA

13C3-PFBS

13C5-PFNA

13C8-PFOA

13C8-PFOS

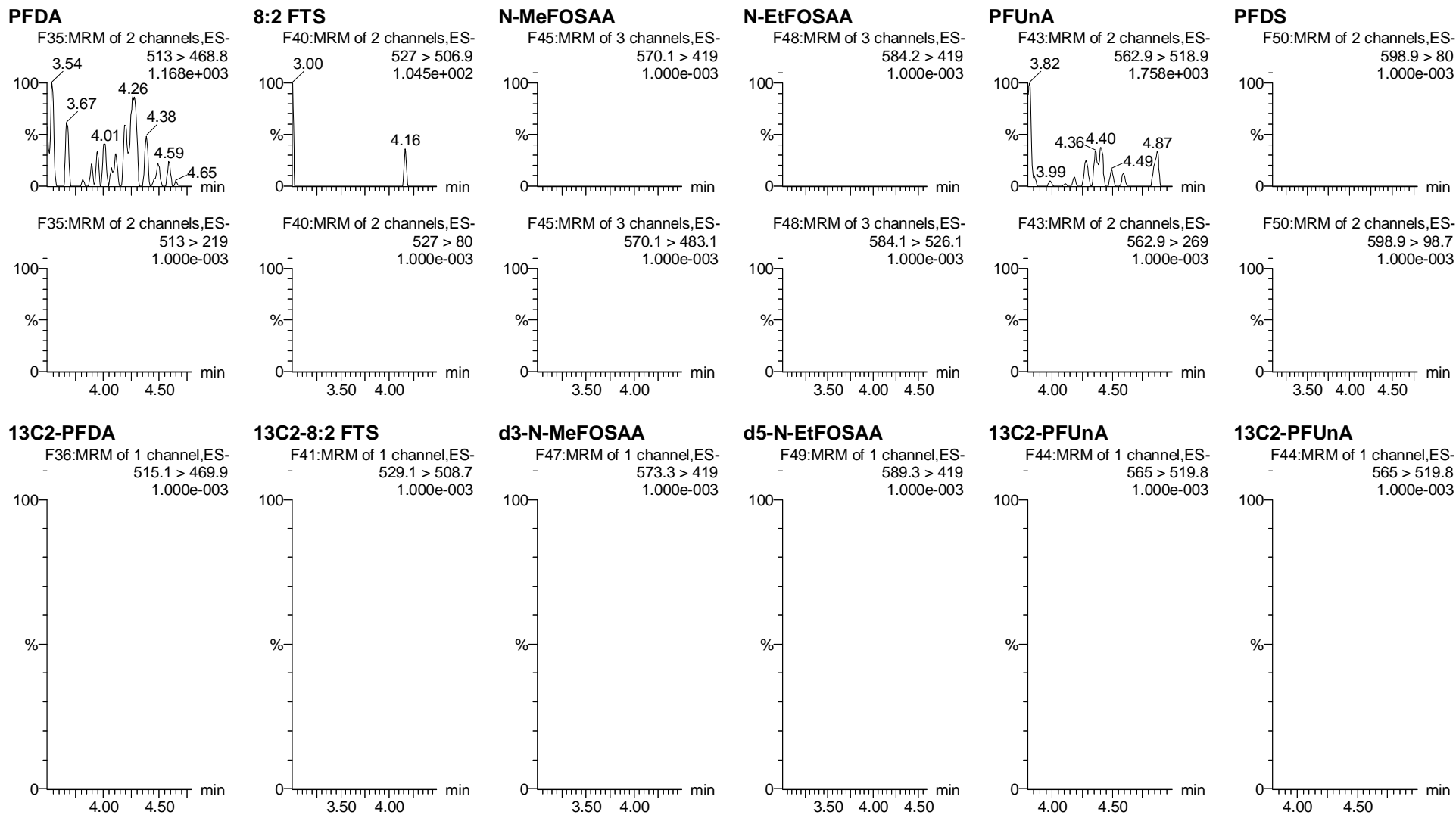


Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA



Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

PFDoA

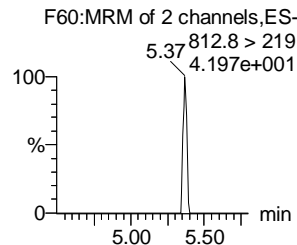
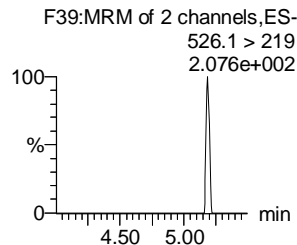
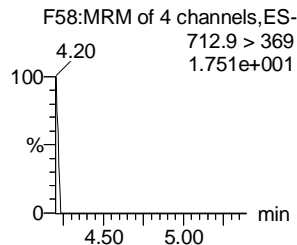
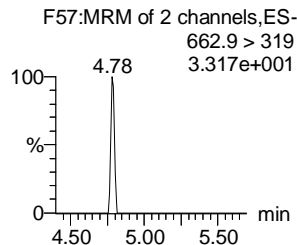
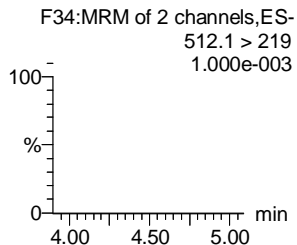
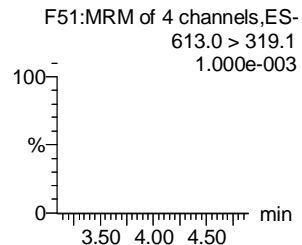
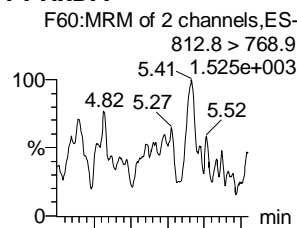
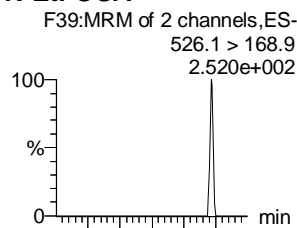
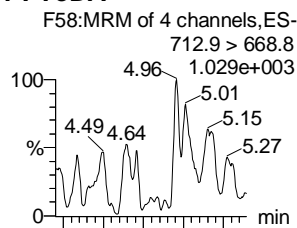
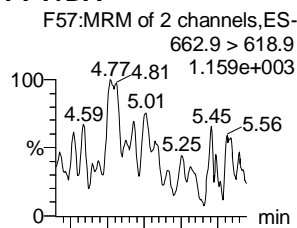
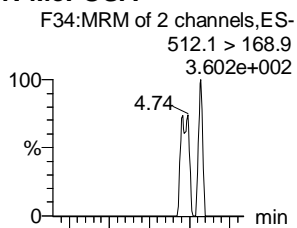
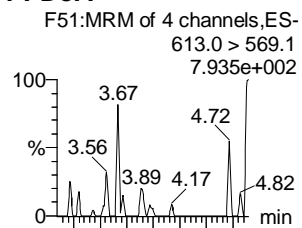
N-MeFOSA

PFTrDA

PFTeDA

N-EtFOSA

PFHxDA



13C2-PFDoA

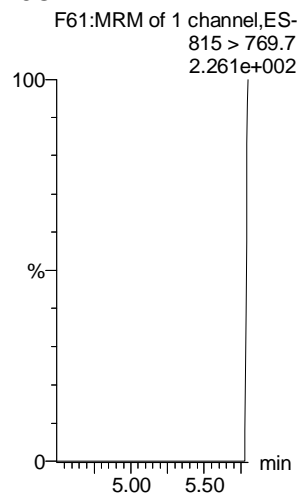
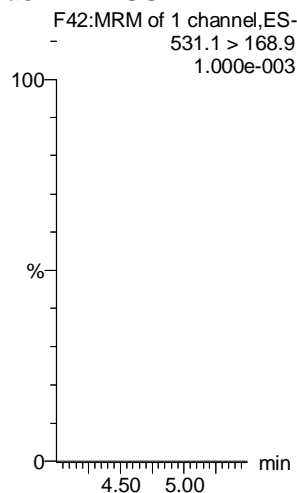
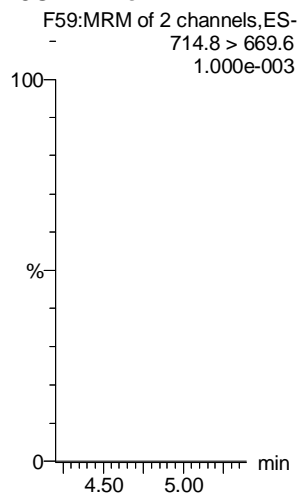
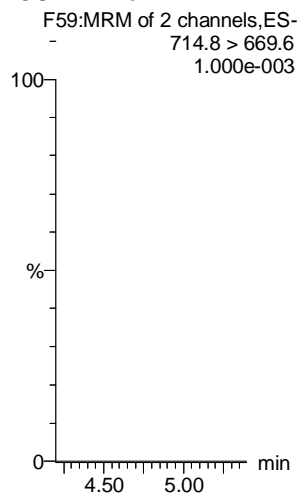
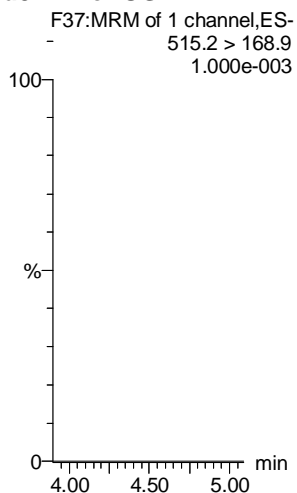
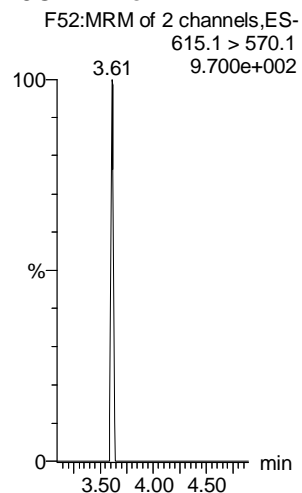
d3-N-MeFOSA

13C2-PFTeDA

13C2-PFTeDA

d5-N-ETFOSA

13C2-PFHxDA



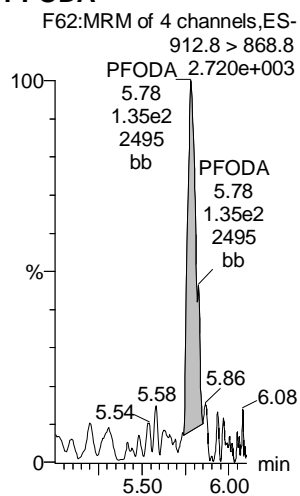
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Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

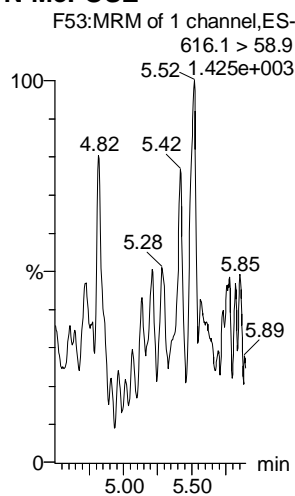
Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

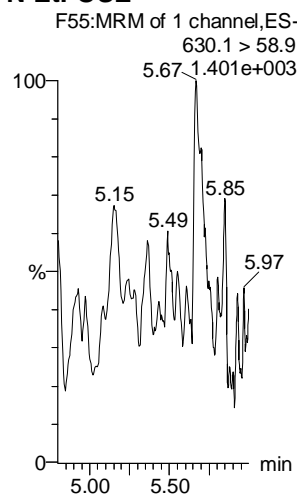
PFODA



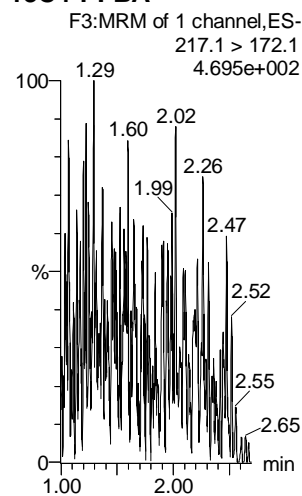
N-MeFOSE



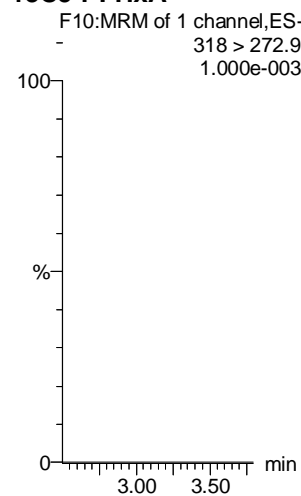
N-EtFOSE



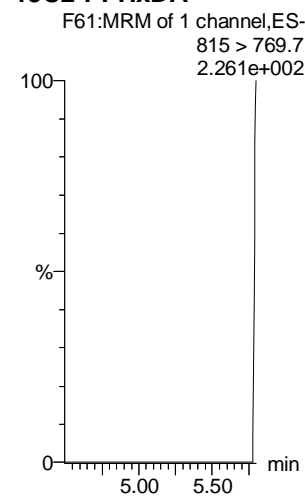
13C4-PFBA



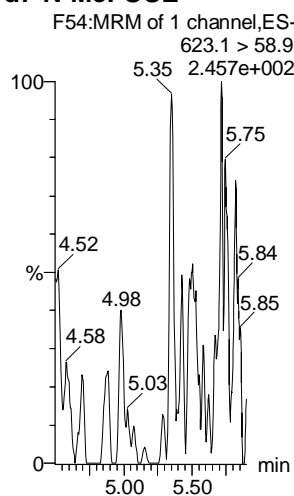
13C5-PFHxA



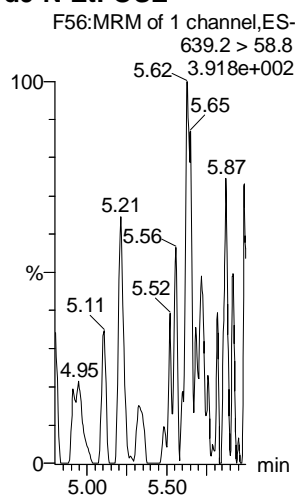
13C2-PFHxDA



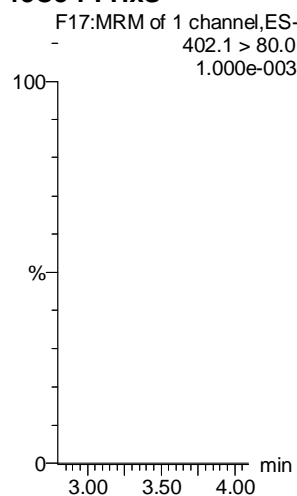
d7-N-MeFOSE



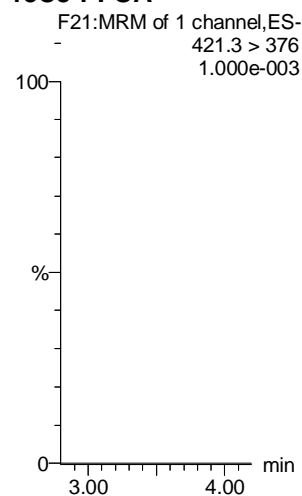
d9-N-EtFOSE



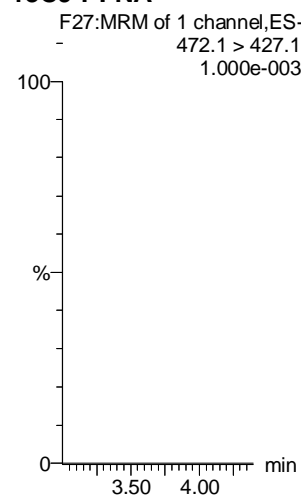
13C3-PFHxS



13C8-PFOA



13C9-PFNA



Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 16:22:47 Pacific Daylight Time

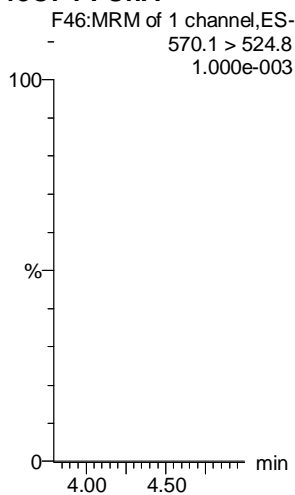
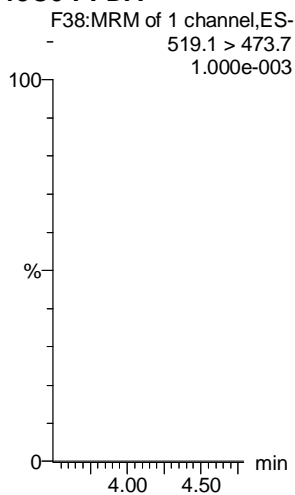
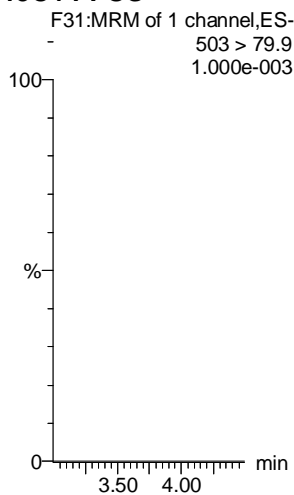
Printed: Tuesday, September 26, 2017 16:24:16 Pacific Daylight Time

Name: 170926M1_16, Date: 26-Sep-2017, Time: 11:35:02, ID: IPA, Description: IPA

13C4-PFOS

13C6-PFDA

13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time
 Printed: Friday, September 29, 2017 09:39:13 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:33:35
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

8 on 9/29/17

*em
9/29/17*

9/28/17

Compound name: PFBA

Coefficient of Determination: R² = 0.999037

Calibration curve: -0.000300068 * x² + 1.13412 * x + 0.042273

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	1.27	369.864	13022.928	0.355	0.3	10.3	NO	0.999	NO	MM
2	2 170928M3_3	Standard	0.500	1.26	635.849	13291.230	0.598	0.5	-2.0	NO	0.999	NO	MM
3	3 170928M3_4	Standard	1.000	1.26	1351.925	13884.911	1.217	1.0	3.6	NO	0.999	NO	MM
4	4 170928M3_5	Standard	2.000	1.27	2795.740	14020.653	2.493	2.2	8.1	NO	0.999	NO	MM
5	5 170928M3_6	Standard	5.000	1.27	5972.149	13738.045	5.434	4.8	-4.8	NO	0.999	NO	MM
6	6 170928M3_7	Standard	10.000	1.26	12950.048	14735.806	10.985	9.7	-3.3	NO	0.999	NO	MM
7	7 170928M3_8	Standard	50.000	1.27	57276.125	12037.807	59.475	53.2	6.3	NO	0.999	NO	MM
8	8 170928M3_9	Standard	100.000	1.27	101616.266	11932.588	106.448	96.3	-3.7	NO	0.999	NO	MM
9	9 170928M3_10	Standard	250.000	1.26	218553.781	10280.356	265.742	250.9	0.4	NO	0.999	NO	MM

Compound name: PFPeA

Correlation coefficient: r = 0.998366, r² = 0.996735

Calibration curve: 1.04748 * x + 0.0392114

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	2.46	573.536	24538.551	0.292	0.2	-3.4	NO	0.997	NO	bb
2	2 170928M3_3	Standard	0.500	2.46	972.721	25528.754	0.476	0.4	-16.5	NO	0.997	NO	MM
3	3 170928M3_4	Standard	1.000	2.47	2471.903	26877.639	1.150	1.1	6.0	NO	0.997	NO	MM
4	4 170928M3_5	Standard	2.000	2.47	4776.292	26163.990	2.282	2.1	7.1	NO	0.997	NO	MM
5	5 170928M3_6	Standard	5.000	2.47	10642.147	26440.822	5.031	4.8	-4.7	NO	0.997	NO	MM
6	6 170928M3_7	Standard	10.000	2.47	22849.488	27270.068	10.474	10.0	-0.4	NO	0.997	NO	MM
7	7 170928M3_8	Standard	50.000	2.47	109989.570	22876.877	60.099	57.3	14.7	NO	0.997	NO	MM
8	8 170928M3_9	Standard	100.000	2.47	189337.313	22523.961	105.075	100.3	0.3	NO	0.997	NO	MM
9	9 170928M3_10	Standard	250.000	2.47	419621.406	20641.928	254.107	242.6	-3.0	NO	0.997	NO	MM

Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:35:20 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.999193$, $r^2 = 0.998386$

Calibration curve: $1.0332 * x + 0.035187$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	2.76	128.103	6183.110	0.259	0.2	-13.4	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	2.76	262.659	6148.784	0.534	0.5	-3.4	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	2.76	554.181	6434.400	1.077	1.0	0.8	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	2.76	1147.908	6514.569	2.203	2.1	4.9	NO	0.998	NO	MM
5	5 170928M3_6	Standard	5.000	2.77	2522.123	6231.948	5.059	4.9	-2.8	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	2.76	5823.160	6555.914	11.103	10.7	7.1	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	2.76	26701.215	5867.511	56.884	55.0	10.0	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	2.76	46316.891	5698.620	101.597	98.3	-1.7	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	2.76	103619.633	5094.286	254.255	246.1	-1.6	NO	0.998	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999515$, $r^2 = 0.999031$

Calibration curve: $1.58113 * x + 0.198995$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.04	1342.977	11935.570	0.563	0.2	-8.0	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	3.04	2217.953	12221.417	0.907	0.4	-10.4	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.04	4400.008	12929.422	1.702	1.0	-5.0	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.05	9652.353	13191.891	3.658	2.2	9.4	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.05	20972.412	12579.332	8.336	5.1	2.9	NO	0.999	NO	MM
6	6 170928M3_7	Standard	10.000	3.04	44680.090	13090.655	17.066	10.7	6.7	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.04	202902.719	11941.879	84.954	53.6	7.2	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.04	353828.875	11371.417	155.578	98.3	-1.7	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	3.04	790258.438	10102.374	391.125	247.2	-1.1	NO	0.999	NO	bb

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Compound name: PFHpA

Correlation coefficient: $r = 0.999298$, $r^2 = 0.998597$

Calibration curve: $0.979153 * x + 0.108639$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.33	2181.096	82842.000	0.329	0.2	-9.9	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	3.33	3225.734	80077.289	0.504	0.4	-19.3	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.33	8154.745	87541.445	1.164	1.1	7.8	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.33	15264.832	84701.547	2.253	2.2	9.5	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.33	33934.039	82375.031	5.149	5.1	3.0	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	3.33	69474.516	86134.781	10.082	10.2	1.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.33	322515.844	75305.078	53.535	54.6	9.1	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.33	557512.938	71053.664	98.080	100.1	0.1	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	3.33	1086198.875	56595.875	239.902	244.9	-2.0	NO	0.999	NO	bb

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.996433$

Calibration curve: $-0.000864694 * x^2 + 2.39077 * x + 0.0759605$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.40	236.963	4678.456	0.633	0.2	-6.8	NO	0.996	NO	MM
2	2 170928M3_3	Standard	0.500	3.41	490.303	4707.833	1.302	0.5	2.6	NO	0.996	NO	MM
3	3 170928M3_4	Standard	1.000	3.41	1102.224	5208.072	2.645	1.1	7.5	NO	0.996	NO	MM
4	4 170928M3_5	Standard	2.000	3.41	1808.535	4815.056	4.695	1.9	-3.3	NO	0.996	NO	MM
5	5 170928M3_6	Standard	5.000	3.41	4630.482	5089.509	11.373	4.7	-5.3	NO	0.996	NO	bb
6	6 170928M3_7	Standard	10.000	3.41	9097.775	4742.982	23.977	10.0	0.3	NO	0.996	NO	MM
7	7 170928M3_8	Standard	50.000	3.41	47385.832	4505.737	131.460	56.1	12.2	NO	0.996	NO	MM
8	8 170928M3_9	Standard	100.000	3.41	80586.703	4735.439	212.722	92.0	-8.0	NO	0.996	NO	MM
9	9 170928M3_10	Standard	250.000	3.41	167567.719	3821.920	548.048	252.2	0.9	NO	0.996	NO	MM

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Compound name: 6:2 FTS

Coefficient of Determination: R² = 0.998225

Calibration curve: -0.00463184 * x² + 1.26145 * x + -0.0874012

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.53	79.991	6007.633	0.166	0.2	-19.4	NO	0.998	NO	MM
2	2 170928M3_3	Standard	0.500	3.53	259.000	6219.678	0.521	0.5	-3.4	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.54	854.168	7247.016	1.473	1.2	24.3	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.54	1471.819	7050.064	2.610	2.2	7.8	NO	0.998	NO	bb
5	5 170928M3_6	Standard	5.000	3.54	3200.847	6804.010	5.880	4.8	-3.7	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.54	6476.166	7221.203	11.210	9.3	-7.3	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	3.54	28624.615	6808.528	52.553	51.4	2.9	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.54	47552.172	7499.823	79.255	98.6	-1.4	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.54	95520.578	8357.696	142.863			NO	0.998	NO	bbXI

Compound name: L-PFOA

Correlation coefficient: r = 0.998924, r² = 0.997848

Calibration curve: 1.01105 * x + 0.297931

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.54	2606.280	61459.211	0.530	0.2	-8.2	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	3.54	3618.482	61975.695	0.730	0.4	-14.6	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.54	7172.838	69373.492	1.292	1.0	-1.6	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.54	13105.771	65054.691	2.518	2.2	9.8	NO	0.998	NO	bd
5	5 170928M3_6	Standard	5.000	3.54	28654.352	63537.844	5.637	5.3	5.6	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.54	55863.410	66861.891	10.444	10.0	0.3	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	3.54	260340.766	57202.133	56.891	56.0	11.9	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.54	433189.531	54128.410	100.037	98.6	-1.4	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.54	892795.688	45003.547	247.979	245.0	-2.0	NO	0.998	NO	MM

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Compound name: PFHpS

Correlation coefficient: $r = 0.998997$, $r^2 = 0.997996$

Calibration curve: $0.181174 * x + 0.00048669$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.61	239.869	61459.211	0.049	0.3	6.6	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	3.60	417.587	61975.695	0.084	0.5	-7.6	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.60	967.638	69373.492	0.174	1.0	-4.0	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.60	1897.917	65054.691	0.365	2.0	0.5	NO	0.998	NO	bb
5	5 170928M3_6	Standard	5.000	3.60	4700.215	63537.844	0.925	5.1	2.0	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.60	9106.304	66861.891	1.702	9.4	-6.1	NO	0.998	NO	MM
7	7 170928M3_8	Standard	50.000	3.60	46242.266	57202.133	10.105	55.8	11.5	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.60	78588.961	54128.410	18.149	100.2	0.2	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.60	159557.844	45003.547	44.318	244.6	-2.2	NO	0.998	NO	bb

Compound name: PFNA

Correlation coefficient: $r = 0.998995$, $r^2 = 0.997991$

Calibration curve: $1.11302 * x + 0.0686515$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.72	1482.125	60600.977	0.306	0.2	-14.8	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	3.72	2553.251	59045.605	0.541	0.4	-15.2	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.72	6525.971	64846.020	1.258	1.1	6.9	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.72	12741.200	63310.539	2.516	2.2	9.9	NO	0.998	NO	bb
5	5 170928M3_6	Standard	5.000	3.72	27822.332	61809.711	5.627	5.0	-0.1	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.72	59688.184	63699.242	11.713	10.5	4.6	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	3.72	275570.938	55809.199	61.722	55.4	10.8	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.72	451989.094	50427.320	112.040	100.6	0.6	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.72	930096.688	42904.926	270.976	243.4	-2.6	NO	0.998	NO	bb

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Compound name: PFOSA

Correlation coefficient: $r = 0.999111$, $r^2 = 0.998223$

Calibration curve: $1.0642 * x + 0.0854088$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170928M3_2	Standard	0.250	4.76	739.528	31668.861	0.292	0.2	-22.4	NO	0.998	NO	MM
2	170928M3_3	Standard	0.500	4.75	1407.289	29892.023	0.588	0.5	-5.5	NO	0.998	NO	MM
3	170928M3_4	Standard	1.000	4.75	3332.609	33931.996	1.228	1.1	7.3	NO	0.998	NO	MM
4	170928M3_5	Standard	2.000	4.75	5935.774	30818.037	2.408	2.2	9.1	NO	0.998	NO	MM
5	170928M3_6	Standard	5.000	4.75	13789.390	32368.520	5.325	4.9	-1.5	NO	0.998	NO	MM
6	170928M3_7	Standard	10.000	4.75	28996.908	32241.580	11.242	10.5	4.8	NO	0.998	NO	MM
7	170928M3_8	Standard	50.000	4.75	142391.922	30290.641	58.761	55.1	10.3	NO	0.998	NO	MM
8	170928M3_9	Standard	100.000	4.75	255970.234	29988.768	106.694	100.2	0.2	NO	0.998	NO	MM
9	170928M3_10	Standard	250.000	4.75	547663.063	26343.645	259.865	244.1	-2.4	NO	0.998	NO	MM

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.999585$

Calibration curve: $-0.000293182 * x^2 + 1.16229 * x - 0.023741$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170928M3_2	Standard	0.250	3.77	239.411	11695.686	0.256	0.2	-3.8	NO	1.000	NO	bb
2	170928M3_3	Standard	0.500	3.76	443.841	11152.891	0.497	0.4	-10.3	NO	1.000	NO	MM
3	170928M3_4	Standard	1.000	3.77	1258.508	12796.593	1.229	1.1	7.8	NO	1.000	NO	MM
4	170928M3_5	Standard	2.000	3.77	2207.653	11951.413	2.309	2.0	0.4	NO	1.000	NO	MM
5	170928M3_6	Standard	5.000	3.77	5708.773	12064.272	5.915	5.1	2.3	NO	1.000	NO	MM
6	170928M3_7	Standard	10.000	3.77	10424.043	12095.657	10.773	9.3	-6.9	NO	1.000	NO	MM
7	170928M3_8	Standard	50.000	3.77	53694.375	11282.274	59.490	51.9	3.8	NO	1.000	NO	MM
8	170928M3_9	Standard	100.000	3.77	95048.367	10661.548	111.438	98.3	-1.7	NO	1.000	NO	MM
9	170928M3_10	Standard	250.000	3.77	196538.703	9013.489	272.562	250.3	0.1	NO	1.000	NO	MM

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Compound name: PFDA

Correlation coefficient: $r = 0.998624$, $r^2 = 0.997249$

Calibration curve: $1.39815 * x + 0.130252$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.88	1632.247	50770.152	0.402	0.2	-22.3	NO	0.997	NO	MM
2	2 170928M3_3	Standard	0.500	3.88	3246.847	50307.305	0.807	0.5	-3.2	NO	0.997	NO	MM
3	3 170928M3_4	Standard	1.000	3.89	7490.045	57015.258	1.642	1.1	8.1	NO	0.997	NO	bb
4	4 170928M3_5	Standard	2.000	3.88	12959.938	53969.359	3.002	2.1	2.7	NO	0.997	NO	bb
5	5 170928M3_6	Standard	5.000	3.89	30977.414	54305.574	7.130	5.0	0.1	NO	0.997	NO	MM
6	6 170928M3_7	Standard	10.000	3.89	65108.910	55174.547	14.751	10.5	4.6	NO	0.997	NO	MM
7	7 170928M3_8	Standard	50.000	3.88	302993.406	47636.184	79.507	56.8	13.5	NO	0.997	NO	bb
8	8 170928M3_9	Standard	100.000	3.88	525063.563	47395.383	138.480	99.0	-1.0	NO	0.997	NO	bb
9	9 170928M3_10	Standard	250.000	3.89	1033788.313	37903.582	340.927	243.7	-2.5	NO	0.997	NO	bb

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Compound name: 8:2 FTS

Coefficient of Determination: R² = 0.999484

Calibration curve: -0.00544716 * x² + 1.56431 * x + 0.00302826

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.90	148.677	4854.790	0.383	0.2	-2.8	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	3.88	280.402	4898.889	0.715	0.5	-8.8	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.88	762.753	5580.186	1.709	1.1	9.4	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.88	1458.794	5766.693	3.162	2.0	1.7	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.88	3332.042	5524.338	7.539	4.9	-2.0	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	3.88	6733.394	5334.074	15.779	10.5	4.7	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.88	29683.984	5849.875	63.429	48.9	-2.3	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.88	49624.801	6052.621	102.486	101.1	1.1	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	3.88	101136.797	7530.186	167.886			NO	0.999	NO	bbXI

Compound name: N-MeFOSAA

Coefficient of Determination: R² = 0.999439

Calibration curve: -0.0108182 * x² + 21.0299 * x + 1.49788

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.93	112.657	5330.528	3.434	0.1	-63.2	NO	0.999	NO	bbX
2	2 170928M3_3	Standard	0.500	3.92	300.336	5191.135	9.402	0.4	-24.8	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.92	1004.448	5900.453	27.663	1.2	24.5	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.93	1817.904	6154.321	48.000	2.2	10.7	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.93	3243.463	5589.241	94.300	4.4	-11.5	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	3.93	7666.457	5842.481	213.231	10.1	1.2	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.93	36285.438	5777.197	1020.631	49.7	-0.5	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.93	67049.258	5427.486	2007.468	100.6	0.6	NO	0.999	NO	MM
9	9 170928M3_10	Standard	250.000	3.93	143368.578	5087.310	4579.511	249.8	-0.1	NO	0.999	NO	MM

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Compound name: N-EtFOSAA

Coefficient of Determination: R² = 0.998865

Calibration curve: -0.00882433 * x² + 16.7677 * x + -0.921128

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.01	143.346	6049.564	3.850	0.3	13.8	NO	0.999	NO	MM
2	2 170928M3_3	Standard	0.500	3.99	223.358	5787.737	6.271	0.4	-14.2	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.99	619.219	6871.252	14.644	0.9	-7.1	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.99	1218.668	6259.750	31.636	1.9	-2.8	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.00	2964.687	6698.523	71.921	4.4	-12.9	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.00	6001.875	6056.110	161.045	9.7	-2.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.00	31685.865	5929.397	868.377	53.3	6.7	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.99	56353.363	5920.045	1546.850	97.3	-2.7	NO	0.999	NO	MM
9	9 170928M3_10	Standard	250.000	4.00	121909.125	5433.999	3645.608	250.5	0.2	NO	0.999	NO	MM

Compound name: PFUnA

Coefficient of Determination: R² = 0.999358

Calibration curve: -0.000247632 * x² + 0.592739 * x + 0.0286222

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.04	966.214	64970.063	0.186	0.3	6.1	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.04	1495.490	64383.629	0.290	0.4	-11.7	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.04	3337.155	68940.961	0.605	1.0	-2.7	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.04	7370.669	66925.758	1.377	2.3	13.8	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.04	15423.262	69052.094	2.792	4.7	-6.6	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.04	31037.578	66093.000	5.870	9.9	-1.0	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.04	143757.844	59276.160	30.315	52.2	4.5	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.04	248196.109	56053.453	55.348	97.3	-2.7	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.04	488342.281	45869.605	133.079	250.7	0.3	NO	0.999	NO	bb

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Compound name: PFDS

Coefficient of Determination: R² = 0.998834

Calibration curve: $-5.15691e-005 * x^2 + 0.195103 * x + 0.000531303$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.09	277.298	64970.063	0.053	0.3	8.3	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.08	479.707	64383.629	0.093	0.5	-5.1	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.08	1260.771	68940.961	0.229	1.2	16.9	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.08	2061.769	66925.758	0.385	2.0	-1.4	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.08	4448.923	69052.094	0.805	4.1	-17.4	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.08	9717.202	66093.000	1.838	9.4	-5.6	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.08	48433.133	59276.160	10.213	53.1	6.2	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.08	83493.273	56053.453	18.619	98.0	-2.0	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.09	167310.563	45869.605	45.594	250.2	0.1	NO	0.999	NO	bb

Compound name: PFDoA

Coefficient of Determination: R² = 0.999208

Calibration curve: $-0.000649665 * x^2 + 1.21076 * x + 0.0836458$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.19	1998.883	62715.340	0.398	0.3	4.0	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.18	3312.415	62254.543	0.665	0.5	-3.9	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.19	7277.650	70114.211	1.297	1.0	0.3	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.19	14387.285	66199.523	2.717	2.2	8.9	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.19	31327.273	68578.148	5.710	4.7	-6.8	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.19	62889.969	68604.000	11.459	9.4	-5.6	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.19	309866.531	62295.297	62.177	52.8	5.6	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.19	539269.188	60281.785	111.823	97.4	-2.6	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.19	1135013.375	54006.363	262.704	250.6	0.2	NO	0.999	NO	bb

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Compound name: PFTTrDA

Correlation coefficient: $r = 0.998040$, $r^2 = 0.996084$

Calibration curve: $0.697862 * x + 0.0906233$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.34	1139.738	62715.340	0.227	0.2	-21.7	NO	0.996	NO	MM
2	2 170928M3_3	Standard	0.500	4.33	1867.095	62254.543	0.375	0.4	-18.5	NO	0.996	NO	MM
3	3 170928M3_4	Standard	1.000	4.34	4643.897	70114.211	0.828	1.1	5.7	NO	0.996	NO	MM
4	4 170928M3_5	Standard	2.000	4.34	9197.687	66199.523	1.737	2.4	17.9	NO	0.996	NO	MM
5	5 170928M3_6	Standard	5.000	4.34	19946.109	68578.148	3.636	5.1	1.6	NO	0.996	NO	bb
6	6 170928M3_7	Standard	10.000	4.34	39736.242	68604.000	7.240	10.2	2.4	NO	0.996	NO	bb
7	7 170928M3_8	Standard	50.000	4.34	197530.031	62295.297	39.636	56.7	13.3	NO	0.996	NO	bb
8	8 170928M3_9	Standard	100.000	4.34	349349.281	60281.785	72.441	103.7	3.7	NO	0.996	NO	bb
9	9 170928M3_10	Standard	250.000	4.34	721206.000	54006.363	166.926	239.1	-4.4	NO	0.996	NO	bb

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999326$

Calibration curve: $-0.000443615 * x^2 + 1.12343 * x + 0.0760781$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.49	707.641	24869.613	0.356	0.2	-0.4	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.48	1081.867	23276.607	0.581	0.4	-10.1	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.49	2670.123	25518.555	1.308	1.1	9.7	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.49	4847.240	24584.127	2.465	2.1	6.4	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.50	11028.534	25569.730	5.391	4.7	-5.2	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.50	21474.807	24518.730	10.948	9.7	-2.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.50	109257.258	23590.477	57.893	52.6	5.1	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.49	194695.609	23184.098	104.973	97.1	-2.9	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.50	414618.000	20414.238	253.878	250.7	0.3	NO	0.999	NO	bb

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Compound name: N-EtFOSA

Correlation coefficient: $r = 0.998551$, $r^2 = 0.997105$

Calibration curve: $0.908948 * x + 0.45045$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	1.250	5.74	1253.703	141075.750	1.333	1.0	-22.3	NO	0.997	NO	bb
2	2 170928M3_3	Standard	2.500	5.73	2297.166	128569.188	2.680	2.5	-1.9	NO	0.997	NO	bb
3	3 170928M3_4	Standard	5.000	5.73	5069.151	146511.969	5.190	5.2	4.3	NO	0.997	NO	bb
4	4 170928M3_5	Standard	10.000	5.74	9575.077	146414.938	9.810	10.3	3.0	NO	0.997	NO	MM
5	5 170928M3_6	Standard	25.000	5.74	22095.725	137698.531	24.070	26.0	3.9	NO	0.997	NO	MM
6	6 170928M3_7	Standard	50.000	5.74	45115.715	141479.719	47.833	52.1	4.3	NO	0.997	NO	bb
7	7 170928M3_8	Standard	250.000	5.74	223035.406	138709.016	241.191	264.9	5.9	NO	0.997	NO	bb
8	8 170928M3_9	Standard	500.000	5.74	390314.156	120159.719	487.244	535.6	7.1	NO	0.997	NO	bb
9	9 170928M3_10	Standard	1250.000	5.74	799209.375	110203.844	1087.815	1196.3	-4.3	NO	0.997	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.998742$

Calibration curve: $-0.00113268 * x^2 + 1.53405 * x + 0.173478$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.83	1732.775	15330.092	0.565	0.3	2.1	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.83	2575.929	15344.305	0.839	0.4	-13.2	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.83	5649.817	16339.726	1.729	1.0	1.5	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.83	12207.379	17078.955	3.574	2.2	11.0	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.84	24507.279	16172.169	7.577	4.8	-3.1	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.84	48705.496	15951.070	15.267	9.9	-0.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.84	238853.313	15168.199	78.735	53.3	6.6	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.84	426142.938	15648.613	136.160	95.4	-4.6	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.84	897475.438	14272.891	314.399	251.6	0.6	NO	0.999	NO	bb

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Compound name: PFOA

Correlation coefficient: $r = 0.996881$, $r^2 = 0.993772$

Calibration curve: $1.03409 * x + 0.144454$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	5.17	1186.093	15330.092	0.387	0.2	-6.2	NO	0.994	NO	MM
2	2 170928M3_3	Standard	0.500	5.17	1959.199	15344.305	0.638	0.5	-4.5	NO	0.994	NO	MM
3	3 170928M3_4	Standard	1.000	5.18	4346.148	16339.726	1.330	1.1	14.6	NO	0.994	NO	bb
4	4 170928M3_5	Standard	2.000	5.18	8729.101	17078.955	2.556	2.3	16.6	NO	0.994	NO	MM
5	5 170928M3_6	Standard	5.000	5.18	18467.154	16172.169	5.710	5.4	7.6	NO	0.994	NO	MM
6	6 170928M3_7	Standard	10.000	5.18	37930.039	15951.070	11.889	11.4	13.6	NO	0.994	NO	MM
7	7 170928M3_8	Standard	50.000	5.18	185117.531	15168.199	61.022	58.9	17.7	NO	0.994	NO	MM
8	8 170928M3_9	Standard	100.000	5.18	328583.063	15648.613	104.988	101.4	1.4	NO	0.994	NO	MM
9	9 170928M3_10	Standard	250.000	5.19	701677.563	14272.891	245.808	237.6	-5.0	NO	0.994	NO	MM

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.997590$, $r^2 = 0.995185$

Calibration curve: $1.0016 * x + 0.537355$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	1.250	5.43	3278.734	313457.625	1.569	1.0	-17.6	NO	0.995	NO	MM
2	2 170928M3_3	Standard	2.500	5.43	5239.831	286750.719	2.741	2.2	-12.0	NO	0.995	NO	bb
3	3 170928M3_4	Standard	5.000	5.43	12223.632	332625.594	5.512	5.0	-0.7	NO	0.995	NO	bb
4	4 170928M3_5	Standard	10.000	5.43	24264.014	322236.000	11.295	10.7	7.4	NO	0.995	NO	bb
5	5 170928M3_6	Standard	25.000	5.43	54815.836	303428.938	27.098	26.5	6.1	NO	0.995	NO	MM
6	6 170928M3_7	Standard	50.000	5.43	111675.281	314627.500	53.242	52.6	5.2	NO	0.995	NO	MM
7	7 170928M3_8	Standard	250.000	5.43	555286.813	306973.281	271.336	270.4	8.1	NO	0.995	NO	MM
8	8 170928M3_9	Standard	500.000	5.43	990575.813	272059.813	546.153	544.7	8.9	NO	0.995	NO	MM
9	9 170928M3_10	Standard	1250.000	5.44	2054272.625	260476.297	1182.990	1180.6	-5.6	NO	0.995	NO	MM

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.997628$, $r^2 = 0.995263$

Calibration curve: $1.16004 * x + 0.57916$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	1.250	5.61	3405.392	293004.344	1.743	1.0	-19.7	NO	0.995	NO	bb
2	2 170928M3_3	Standard	2.500	5.61	5755.764	264405.250	3.265	2.3	-7.4	NO	0.995	NO	bb
3	3 170928M3_4	Standard	5.000	5.61	13105.551	312055.688	6.300	4.9	-1.4	NO	0.995	NO	bb
4	4 170928M3_5	Standard	10.000	5.61	26146.939	301790.656	12.996	10.7	7.0	NO	0.995	NO	MM
5	5 170928M3_6	Standard	25.000	5.61	59465.793	283417.188	31.473	26.6	6.5	NO	0.995	NO	MM
6	6 170928M3_7	Standard	50.000	5.61	119387.273	293054.969	61.108	52.2	4.4	NO	0.995	NO	bb
7	7 170928M3_8	Standard	250.000	5.61	590555.875	286746.250	308.926	265.8	6.3	NO	0.995	NO	bb
8	8 170928M3_9	Standard	500.000	5.61	1045090.563	246199.156	636.735	548.4	9.7	NO	0.995	NO	bb
9	9 170928M3_10	Standard	1250.000	5.61	2150845.500	235237.813	1371.492	1181.8	-5.5	NO	0.995	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.859788

RRF SD: 0.0404451, Relative SD: 4.70408

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	1.27	13022.928	15492.041	10.508	12.2	-2.2	NO		NO	MM
2	2 170928M3_3	Standard	12.500	1.26	13291.230	14657.481	11.335	13.2	5.5	NO		NO	MM
3	3 170928M3_4	Standard	12.500	1.27	13884.911	16177.305	10.729	12.5	-0.2	NO		NO	MM
4	4 170928M3_5	Standard	12.500	1.26	14020.653	16905.703	10.367	12.1	-3.5	NO		NO	MM
5	5 170928M3_6	Standard	12.500	1.26	13738.045	15253.195	11.258	13.1	4.8	NO		NO	MM
6	6 170928M3_7	Standard	12.500	1.26	14735.806	16920.586	10.886	12.7	1.3	NO		NO	MM
7	7 170928M3_8	Standard	12.500	1.27	12037.807	14725.886	10.218	11.9	-4.9	NO		NO	MM
8	8 170928M3_9	Standard	12.500	1.27	11932.588	13088.286	11.396	13.3	6.0	NO		NO	MM
9	9 170928M3_10	Standard	12.500	1.26	10280.356	12812.973	10.029	11.7	-6.7	NO		NO	MM

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Compound name: 13C3-PFPeA

Response Factor: 0.227097

RRF SD: 0.0155436, Relative SD: 6.84449

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170928M3_2	Standard	12.500	2.46	24538.551	45347.895	2.706	11.9	-4.7	NO		NO	MM
2	170928M3_3	Standard	12.500	2.46	25528.754	41912.141	3.046	13.4	7.3	NO		NO	MM
3	170928M3_4	Standard	12.500	2.47	26877.639	44153.660	3.044	13.4	7.2	NO		NO	bb
4	170928M3_5	Standard	12.500	2.47	26163.990	48387.148	2.704	11.9	-4.8	NO		NO	MM
5	170928M3_6	Standard	12.500	2.47	26440.822	42134.098	3.138	13.8	10.5	NO		NO	MM
6	170928M3_7	Standard	12.500	2.47	27270.068	48970.875	2.784	12.3	-1.9	NO		NO	MM
7	170928M3_8	Standard	12.500	2.47	22876.877	43624.754	2.622	11.5	-7.6	NO		NO	MM
8	170928M3_9	Standard	12.500	2.47	22523.961	39243.410	2.870	12.6	1.1	NO		NO	MM
9	170928M3_10	Standard	12.500	2.47	20641.928	39150.105	2.636	11.6	-7.1	NO		NO	MM

Compound name: 13C3-PFBS

Response Factor: 0.0557792

RRF SD: 0.00272845, Relative SD: 4.89151

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170928M3_2	Standard	12.500	2.76	6183.110	45347.895	0.682	12.2	-2.2	NO		NO	MM
2	170928M3_3	Standard	12.500	2.76	6148.784	41912.141	0.734	13.2	5.2	NO		NO	bb
3	170928M3_4	Standard	12.500	2.76	6434.400	44153.660	0.729	13.1	4.5	NO		NO	bb
4	170928M3_5	Standard	12.500	2.76	6514.569	48387.148	0.673	12.1	-3.5	NO		NO	MM
5	170928M3_6	Standard	12.500	2.76	6231.948	42134.098	0.740	13.3	6.1	NO		NO	bb
6	170928M3_7	Standard	12.500	2.76	6555.914	48970.875	0.669	12.0	-4.0	NO		NO	MM
7	170928M3_8	Standard	12.500	2.76	5867.511	43624.754	0.672	12.1	-3.5	NO		NO	MM
8	170928M3_9	Standard	12.500	2.76	5698.620	39243.410	0.726	13.0	4.1	NO		NO	MM
9	170928M3_10	Standard	12.500	2.76	5094.286	39150.105	0.651	11.7	-6.7	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.278631

RRF SD: 0.0147502, Relative SD: 5.29384

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	5.000	3.04	11935.570	45347.895	1.316	4.7	-5.5	NO		NO	bb
2	2 170928M3_3	Standard	5.000	3.04	12221.417	41912.141	1.458	5.2	4.7	NO		NO	bb
3	3 170928M3_4	Standard	5.000	3.05	12929.422	44153.660	1.464	5.3	5.1	NO		NO	MM
4	4 170928M3_5	Standard	5.000	3.04	13191.891	48387.148	1.363	4.9	-2.2	NO		NO	MM
5	5 170928M3_6	Standard	5.000	3.05	12579.332	42134.098	1.493	5.4	7.2	NO		NO	MM
6	6 170928M3_7	Standard	5.000	3.04	13090.655	48970.875	1.337	4.8	-4.1	NO		NO	MM
7	7 170928M3_8	Standard	5.000	3.04	11941.879	43624.754	1.369	4.9	-1.8	NO		NO	bb
8	8 170928M3_9	Standard	5.000	3.04	11371.417	39243.410	1.449	5.2	4.0	NO		NO	MM
9	9 170928M3_10	Standard	5.000	3.04	10102.374	39150.105	1.290	4.6	-7.4	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.71853

RRF SD: 0.0641135, Relative SD: 8.92287

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.33	82842.000	45347.895	9.134	12.7	1.7	NO		NO	bb
2	2 170928M3_3	Standard	12.500	3.33	80077.289	41912.141	9.553	13.3	6.4	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.33	87541.445	44153.660	9.913	13.8	10.4	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.33	84701.547	48387.148	8.752	12.2	-2.6	NO		NO	MM
5	5 170928M3_6	Standard	12.500	3.33	82375.031	42134.098	9.775	13.6	8.8	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.33	86134.781	48970.875	8.794	12.2	-2.1	NO		NO	MM
7	7 170928M3_8	Standard	12.500	3.33	75305.078	43624.754	8.631	12.0	-3.9	NO		NO	bb
8	8 170928M3_9	Standard	12.500	3.33	71053.664	39243.410	9.053	12.6	0.8	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.33	56595.875	39150.105	7.228	10.1	-19.5	NO		NO	MM

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Compound name: 18O2-PFHxS

Response Factor: 0.476733

RRF SD: 0.0290573, Relative SD: 6.0951

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.41	4678.456	10797.068	5.416	11.4	-9.1	NO		NO	MM
2	2 170928M3_3	Standard	12.500	3.40	4707.833	9429.942	6.241	13.1	4.7	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.41	5208.072	10311.424	6.313	13.2	5.9	NO		NO	MM
4	4 170928M3_5	Standard	12.500	3.41	4815.056	10363.325	5.808	12.2	-2.5	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.41	5089.509	10259.912	6.201	13.0	4.1	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.41	4742.982	10043.100	5.903	12.4	-0.9	NO		NO	bb
7	7 170928M3_8	Standard	12.500	3.41	4505.737	10223.871	5.509	11.6	-7.6	NO		NO	bb
8	8 170928M3_9	Standard	12.500	3.41	4735.439	9177.393	6.450	13.5	8.2	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.41	3821.920	8248.921	5.792	12.1	-2.8	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.129427

RRF SD: 0.0178545, Relative SD: 13.795

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.54	6007.633	54132.344	1.387	10.7	-14.3	NO		NO	bb
2	2 170928M3_3	Standard	12.500	3.53	6219.678	51254.402	1.517	11.7	-6.2	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.54	7247.016	58439.441	1.550	12.0	-4.2	NO		NO	MM
4	4 170928M3_5	Standard	12.500	3.54	7050.064	56309.828	1.565	12.1	-3.3	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.54	6804.010	54828.953	1.551	12.0	-4.1	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.54	7221.203	56280.609	1.604	12.4	-0.9	NO		NO	bb
7	7 170928M3_8	Standard	12.500	3.54	6808.528	52279.965	1.628	12.6	0.6	NO		NO	bb
8	8 170928M3_9	Standard	12.500	3.54	7499.823	43796.883	2.141	16.5	32.3	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.54	8357.696	39576.875	2.640	20.4	63.2	NO		NO	bbX

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Compound name: 13C2-PFOA

Response Factor: 1.16677

RRF SD: 0.0429766, Relative SD: 3.68338

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.54	61459.211	54132.344	14.192	12.2	-2.7	NO		NO	MM
2	2 170928M3_3	Standard	12.500	3.54	61975.695	51254.402	15.115	13.0	3.6	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.54	69373.492	58439.441	14.839	12.7	1.7	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.54	65054.691	56309.828	14.441	12.4	-1.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.54	63537.844	54828.953	14.485	12.4	-0.7	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.54	66861.891	56280.609	14.850	12.7	1.8	NO		NO	MM
7	7 170928M3_8	Standard	12.500	3.54	57202.133	52279.965	13.677	11.7	-6.2	NO		NO	bb
8	8 170928M3_9	Standard	12.500	3.54	54128.410	43796.883	15.449	13.2	5.9	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.54	45003.547	39576.875	14.214	12.2	-2.5	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.856024

RRF SD: 0.0352764, Relative SD: 4.12096

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.72	60600.977	72326.930	10.473	12.2	-2.1	NO		NO	MM
2	2 170928M3_3	Standard	12.500	3.72	59045.605	65070.875	11.343	13.3	6.0	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.72	64846.020	77506.609	10.458	12.2	-2.3	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.72	63310.539	75540.500	10.476	12.2	-2.1	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.72	61809.711	71278.398	10.839	12.7	1.3	NO		NO	MM
6	6 170928M3_7	Standard	12.500	3.72	63699.242	71933.648	11.069	12.9	3.4	NO		NO	bb
7	7 170928M3_8	Standard	12.500	3.72	55809.199	69850.703	9.987	11.7	-6.7	NO		NO	MM
8	8 170928M3_9	Standard	12.500	3.72	50427.320	56247.984	11.206	13.1	4.7	NO		NO	MM
9	9 170928M3_10	Standard	12.500	3.72	42904.926	51321.887	10.450	12.2	-2.3	NO		NO	MM

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Compound name: 13C8-PFOSA

Response Factor: 0.466643

RRF SD: 0.0332979, Relative SD: 7.13561

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	4.77	31668.861	70220.734	5.637	12.1	-3.4	NO		NO	MM
2	2 170928M3_3	Standard	12.500	4.75	29892.023	64345.391	5.807	12.4	-0.4	NO		NO	MM
3	3 170928M3_4	Standard	12.500	4.75	33931.996	75202.695	5.640	12.1	-3.3	NO		NO	MM
4	4 170928M3_5	Standard	12.500	4.75	30818.037	72922.531	5.283	11.3	-9.4	NO		NO	MM
5	5 170928M3_6	Standard	12.500	4.75	32368.520	70058.250	5.775	12.4	-1.0	NO		NO	MM
6	6 170928M3_7	Standard	12.500	4.75	32241.580	71324.938	5.650	12.1	-3.1	NO		NO	MM
7	7 170928M3_8	Standard	12.500	4.75	30290.641	66728.492	5.674	12.2	-2.7	NO		NO	MM
8	8 170928M3_9	Standard	12.500	4.75	29988.768	56797.375	6.600	14.1	13.1	NO		NO	MM
9	9 170928M3_10	Standard	12.500	4.75	26343.645	51209.441	6.430	13.8	10.2	NO		NO	MM

Compound name: 13C8-PFOS

Response Factor: 0.98332

RRF SD: 0.0375773, Relative SD: 3.82147

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.77	11695.686	12113.262	12.069	12.3	-1.8	NO		NO	bb
2	2 170928M3_3	Standard	12.500	3.76	11152.891	10662.599	13.075	13.3	6.4	NO		NO	MM
3	3 170928M3_4	Standard	12.500	3.77	12796.593	12924.893	12.376	12.6	0.7	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.77	11951.413	12652.497	11.807	12.0	-3.9	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.77	12064.272	11796.213	12.784	13.0	4.0	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.77	12095.657	12068.550	12.528	12.7	1.9	NO		NO	MM
7	7 170928M3_8	Standard	12.500	3.77	11282.274	11814.097	11.937	12.1	-2.9	NO		NO	MM
8	8 170928M3_9	Standard	12.500	3.77	10661.548	10742.266	12.406	12.6	0.9	NO		NO	MM
9	9 170928M3_10	Standard	12.500	3.77	9013.489	9678.761	11.641	11.8	-5.3	NO		NO	bd

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Compound name: 13C2-PFDA

Response Factor: 0.858999

RRF SD: 0.0454332, Relative SD: 5.28908

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170928M3_2	Standard	12.500	3.88	50770.152	60632.020	10.467	12.2	-2.5	NO		NO	bb
2	170928M3_3	Standard	12.500	3.88	50307.305	56509.246	11.128	13.0	3.6	NO		NO	bb
3	170928M3_4	Standard	12.500	3.88	57015.258	64412.648	11.064	12.9	3.0	NO		NO	bb
4	170928M3_5	Standard	12.500	3.88	53969.359	65636.758	10.278	12.0	-4.3	NO		NO	bb
5	170928M3_6	Standard	12.500	3.88	54305.574	62219.957	10.910	12.7	1.6	NO		NO	bb
6	170928M3_7	Standard	12.500	3.89	55174.547	62219.496	11.085	12.9	3.2	NO		NO	bb
7	170928M3_8	Standard	12.500	3.88	47636.184	60287.148	9.877	11.5	-8.0	NO		NO	bb
8	170928M3_9	Standard	12.500	3.88	47395.383	50853.023	11.650	13.6	8.5	NO		NO	bb
9	170928M3_10	Standard	12.500	3.89	37903.582	46549.582	10.178	11.8	-5.2	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.091478

RRF SD: 0.012068, Relative SD: 13.1922

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170928M3_2	Standard	12.500	3.88	4854.790	60632.020	1.001	10.9	-12.5	NO		NO	bb
2	170928M3_3	Standard	12.500	3.88	4898.889	56509.246	1.084	11.8	-5.2	NO		NO	bb
3	170928M3_4	Standard	12.500	3.88	5580.186	64412.648	1.083	11.8	-5.3	NO		NO	bb
4	170928M3_5	Standard	12.500	3.88	5766.693	65636.758	1.098	12.0	-4.0	NO		NO	MM
5	170928M3_6	Standard	12.500	3.88	5524.338	62219.957	1.110	12.1	-2.9	NO		NO	bb
6	170928M3_7	Standard	12.500	3.88	5334.074	62219.496	1.072	11.7	-6.3	NO		NO	bb
7	170928M3_8	Standard	12.500	3.88	5849.875	60287.148	1.213	13.3	6.1	NO		NO	MM
8	170928M3_9	Standard	12.500	3.88	6052.621	50853.023	1.488	16.3	30.1	NO		NO	bb
9	170928M3_10	Standard	12.500	3.88	7530.186	46549.582	2.022	22.1	76.8	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.00651809

RRF SD: 0.000608302, Relative SD: 9.33252

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	162.500	3.92	5330.528	70220.734	0.949	145.6	-10.4	NO		NO	bb
2	2 170928M3_3	Standard	162.500	3.92	5191.135	64345.391	1.008	154.7	-4.8	NO		NO	bb
3	3 170928M3_4	Standard	162.500	3.92	5900.453	75202.695	0.981	150.5	-7.4	NO		NO	bd
4	4 170928M3_5	Standard	162.500	3.92	6154.321	72922.531	1.055	161.8	-0.4	NO		NO	bb
5	5 170928M3_6	Standard	162.500	3.93	5589.241	70058.250	0.997	153.0	-5.8	NO		NO	bb
6	6 170928M3_7	Standard	162.500	3.93	5842.481	71324.938	1.024	157.1	-3.3	NO		NO	bb
7	7 170928M3_8	Standard	162.500	3.93	5777.197	66728.492	1.082	166.0	2.2	NO		NO	bb
8	8 170928M3_9	Standard	162.500	3.92	5427.486	56797.375	1.194	183.3	12.8	NO		NO	bb
9	9 170928M3_10	Standard	162.500	3.93	5087.310	51209.441	1.242	190.5	17.2	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.00711995

RRF SD: 0.000605651, Relative SD: 8.50639

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	162.500	3.99	6049.564	70220.734	1.077	151.2	-6.9	NO		NO	bd
2	2 170928M3_3	Standard	162.500	3.99	5787.737	64345.391	1.124	157.9	-2.8	NO		NO	bb
3	3 170928M3_4	Standard	162.500	3.99	6871.252	75202.695	1.142	160.4	-1.3	NO		NO	bb
4	4 170928M3_5	Standard	162.500	3.99	6259.750	72922.531	1.073	150.7	-7.3	NO		NO	MM
5	5 170928M3_6	Standard	162.500	3.99	6698.523	70058.250	1.195	167.9	3.3	NO		NO	bb
6	6 170928M3_7	Standard	162.500	4.00	6056.110	71324.938	1.061	149.1	-8.3	NO		NO	bb
7	7 170928M3_8	Standard	162.500	3.99	5929.397	66728.492	1.111	156.0	-4.0	NO		NO	bb
8	8 170928M3_9	Standard	162.500	3.99	5920.045	56797.375	1.303	183.0	12.6	NO		NO	bb
9	9 170928M3_10	Standard	162.500	4.00	5433.999	51209.441	1.326	186.3	14.6	NO		NO	bb

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Compound name: 13C2-PFUnA

Response Factor: 0.938172

RRF SD: 0.0418146, Relative SD: 4.45703

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	4.04	64970.063	70220.734	11.565	12.3	-1.4	NO		NO	bb
2	2 170928M3_3	Standard	12.500	4.04	64383.629	64345.391	12.507	13.3	6.7	NO		NO	bb
3	3 170928M3_4	Standard	12.500	4.04	68940.961	75202.695	11.459	12.2	-2.3	NO		NO	bb
4	4 170928M3_5	Standard	12.500	4.04	66925.758	72922.531	11.472	12.2	-2.2	NO		NO	bb
5	5 170928M3_6	Standard	12.500	4.04	69052.094	70058.250	12.320	13.1	5.1	NO		NO	bb
6	6 170928M3_7	Standard	12.500	4.04	66093.000	71324.938	11.583	12.3	-1.2	NO		NO	bb
7	7 170928M3_8	Standard	12.500	4.04	59276.160	66728.492	11.104	11.8	-5.3	NO		NO	MM
8	8 170928M3_9	Standard	12.500	4.04	56053.453	56797.375	12.336	13.1	5.2	NO		NO	bb
9	9 170928M3_10	Standard	12.500	4.04	45869.605	51209.441	11.197	11.9	-4.5	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.965669

RRF SD: 0.0591738, Relative SD: 6.12775

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	4.19	62715.340	70220.734	11.164	11.6	-7.5	NO		NO	bb
2	2 170928M3_3	Standard	12.500	4.18	62254.543	64345.391	12.094	12.5	0.2	NO		NO	bb
3	3 170928M3_4	Standard	12.500	4.19	70114.211	75202.695	11.654	12.1	-3.5	NO		NO	MM
4	4 170928M3_5	Standard	12.500	4.19	66199.523	72922.531	11.348	11.8	-6.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	4.19	68578.148	70058.250	12.236	12.7	1.4	NO		NO	MM
6	6 170928M3_7	Standard	12.500	4.19	68604.000	71324.938	12.023	12.5	-0.4	NO		NO	bb
7	7 170928M3_8	Standard	12.500	4.19	62295.297	66728.492	11.670	12.1	-3.3	NO		NO	bb
8	8 170928M3_9	Standard	12.500	4.19	60281.785	56797.375	13.267	13.7	9.9	NO		NO	bb
9	9 170928M3_10	Standard	12.500	4.19	54006.363	51209.441	13.183	13.7	9.2	NO		NO	bb

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Compound name: 13C2-PFTeDA

Response Factor: 0.362385

RRF SD: 0.0252045, Relative SD: 6.95518

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	4.49	24869.613	70220.734	4.427	12.2	-2.3	NO		NO	bb
2	2 170928M3_3	Standard	12.500	4.49	23276.607	64345.391	4.522	12.5	-0.2	NO		NO	bb
3	3 170928M3_4	Standard	12.500	4.49	25518.555	75202.695	4.242	11.7	-6.4	NO		NO	MM
4	4 170928M3_5	Standard	12.500	4.49	24584.127	72922.531	4.214	11.6	-7.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	4.50	25569.730	70058.250	4.562	12.6	0.7	NO		NO	bb
6	6 170928M3_7	Standard	12.500	4.50	24518.730	71324.938	4.297	11.9	-5.1	NO		NO	bb
7	7 170928M3_8	Standard	12.500	4.50	23590.477	66728.492	4.419	12.2	-2.4	NO		NO	bb
8	8 170928M3_9	Standard	12.500	4.49	23184.098	56797.375	5.102	14.1	12.6	NO		NO	bb
9	9 170928M3_10	Standard	12.500	4.50	20414.238	51209.441	4.983	13.8	10.0	NO		NO	bb

Compound name: d5-N-ETFOSA

Response Factor: 0.169061

RRF SD: 0.00585733, Relative SD: 3.46463

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	150.000	5.73	141075.750	70220.734	25.113	148.5	-1.0	NO		NO	MM
2	2 170928M3_3	Standard	150.000	5.73	128569.188	64345.391	24.976	147.7	-1.5	NO		NO	MM
3	3 170928M3_4	Standard	150.000	5.73	146511.969	75202.695	24.353	144.0	-4.0	NO		NO	MM
4	4 170928M3_5	Standard	150.000	5.73	146414.938	72922.531	25.098	148.5	-1.0	NO		NO	MM
5	5 170928M3_6	Standard	150.000	5.73	137698.531	70058.250	24.569	145.3	-3.1	NO		NO	MM
6	6 170928M3_7	Standard	150.000	5.73	141479.719	71324.938	24.795	146.7	-2.2	NO		NO	MM
7	7 170928M3_8	Standard	150.000	5.73	138709.016	66728.492	25.984	153.7	2.5	NO		NO	MM
8	8 170928M3_9	Standard	150.000	5.73	120159.719	56797.375	26.445	156.4	4.3	NO		NO	MM
9	9 170928M3_10	Standard	150.000	5.73	110203.844	51209.441	26.900	159.1	6.1	NO		NO	MM

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Compound name: 13C2-PFHxDA

Response Factor: 0.595635

RRF SD: 0.0577448, Relative SD: 9.69467

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	5.000	4.83	15330.092	70220.734	2.729	4.6	-8.4	NO		NO	MM
2	2 170928M3_3	Standard	5.000	4.83	15344.305	64345.391	2.981	5.0	0.1	NO		NO	bb
3	3 170928M3_4	Standard	5.000	4.83	16339.726	75202.695	2.716	4.6	-8.8	NO		NO	bb
4	4 170928M3_5	Standard	5.000	4.83	17078.955	72922.531	2.928	4.9	-1.7	NO		NO	bb
5	5 170928M3_6	Standard	5.000	4.84	16172.169	70058.250	2.885	4.8	-3.1	NO		NO	bb
6	6 170928M3_7	Standard	5.000	4.84	15951.070	71324.938	2.795	4.7	-6.1	NO		NO	bb
7	7 170928M3_8	Standard	5.000	4.84	15168.199	66728.492	2.841	4.8	-4.6	NO		NO	bb
8	8 170928M3_9	Standard	5.000	4.84	15648.613	56797.375	3.444	5.8	15.6	NO		NO	bb
9	9 170928M3_10	Standard	5.000	4.84	14272.891	51209.441	3.484	5.8	17.0	NO		NO	bb

Compound name: d7-N-MeFOSE

Response Factor: 0.379457

RRF SD: 0.0200805, Relative SD: 5.29189

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	150.000	5.42	313457.625	70220.734	55.799	147.0	-2.0	NO		NO	bb
2	2 170928M3_3	Standard	150.000	5.42	286750.719	64345.391	55.705	146.8	-2.1	NO		NO	bb
3	3 170928M3_4	Standard	150.000	5.42	332625.594	75202.695	55.288	145.7	-2.9	NO		NO	MM
4	4 170928M3_5	Standard	150.000	5.42	322236.000	72922.531	55.236	145.6	-3.0	NO		NO	bb
5	5 170928M3_6	Standard	150.000	5.42	303428.938	70058.250	54.139	142.7	-4.9	NO		NO	bb
6	6 170928M3_7	Standard	150.000	5.42	314627.500	71324.938	55.140	145.3	-3.1	NO		NO	bb
7	7 170928M3_8	Standard	150.000	5.42	306973.281	66728.492	57.504	151.5	1.0	NO		NO	bb
8	8 170928M3_9	Standard	150.000	5.42	272059.813	56797.375	59.875	157.8	5.2	NO		NO	bb
9	9 170928M3_10	Standard	150.000	5.42	260476.297	51209.441	63.581	167.6	11.7	NO		NO	bb

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Compound name: d9-N-EtFOSE

Response Factor: 0.351385

RRF SD: 0.0140562, Relative SD: 4.00022

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	150.000	5.60	293004.344	70220.734	52.158	148.4	-1.0	NO		NO	bb
2	2 170928M3_3	Standard	150.000	5.59	264405.250	64345.391	51.364	146.2	-2.5	NO		NO	bb
3	3 170928M3_4	Standard	150.000	5.60	312055.688	75202.695	51.869	147.6	-1.6	NO		NO	bb
4	4 170928M3_5	Standard	150.000	5.60	301790.656	72922.531	51.731	147.2	-1.9	NO		NO	bb
5	5 170928M3_6	Standard	150.000	5.60	283417.188	70058.250	50.568	143.9	-4.1	NO		NO	bb
6	6 170928M3_7	Standard	150.000	5.60	293054.969	71324.938	51.359	146.2	-2.6	NO		NO	bb
7	7 170928M3_8	Standard	150.000	5.60	286746.250	66728.492	53.715	152.9	1.9	NO		NO	bb
8	8 170928M3_9	Standard	150.000	5.60	246199.156	56797.375	54.184	154.2	2.8	NO		NO	bb
9	9 170928M3_10	Standard	150.000	5.60	235237.813	51209.441	57.421	163.4	8.9	NO		NO	bb

Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	1.27	15492.041	15492.041	12.500	12.5	0.0	NO		NO	MM
2	2 170928M3_3	Standard	12.500	1.26	14657.481	14657.481	12.500	12.5	0.0	NO		NO	MM
3	3 170928M3_4	Standard	12.500	1.27	16177.305	16177.305	12.500	12.5	0.0	NO		NO	MM
4	4 170928M3_5	Standard	12.500	1.26	16905.703	16905.703	12.500	12.5	0.0	NO		NO	MM
5	5 170928M3_6	Standard	12.500	1.27	15253.195	15253.195	12.500	12.5	0.0	NO		NO	MM
6	6 170928M3_7	Standard	12.500	1.26	16920.586	16920.586	12.500	12.5	0.0	NO		NO	MM
7	7 170928M3_8	Standard	12.500	1.26	14725.886	14725.886	12.500	12.5	0.0	NO		NO	MM
8	8 170928M3_9	Standard	12.500	1.27	13088.286	13088.286	12.500	12.5	0.0	NO		NO	MM
9	9 170928M3_10	Standard	12.500	1.26	12812.973	12812.973	12.500	12.5	0.0	NO		NO	MM

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Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	5.000	3.04	45347.895	45347.895	5.000	5.0	0.0	NO		NO	bb
2	2 170928M3_3	Standard	5.000	3.04	41912.141	41912.141	5.000	5.0	0.0	NO		NO	bb
3	3 170928M3_4	Standard	5.000	3.04	44153.660	44153.660	5.000	5.0	0.0	NO		NO	bb
4	4 170928M3_5	Standard	5.000	3.04	48387.148	48387.148	5.000	5.0	0.0	NO		NO	bb
5	5 170928M3_6	Standard	5.000	3.04	42134.098	42134.098	5.000	5.0	0.0	NO		NO	bb
6	6 170928M3_7	Standard	5.000	3.04	48970.875	48970.875	5.000	5.0	0.0	NO		NO	bb
7	7 170928M3_8	Standard	5.000	3.04	43624.754	43624.754	5.000	5.0	0.0	NO		NO	bb
8	8 170928M3_9	Standard	5.000	3.04	39243.410	39243.410	5.000	5.0	0.0	NO		NO	MM
9	9 170928M3_10	Standard	5.000	3.04	39150.105	39150.105	5.000	5.0	0.0	NO		NO	bb

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.41	10797.068	10797.068	12.500	12.5	0.0	NO		NO	bb
2	2 170928M3_3	Standard	12.500	3.40	9429.942	9429.942	12.500	12.5	0.0	NO		NO	MM
3	3 170928M3_4	Standard	12.500	3.41	10311.424	10311.424	12.500	12.5	0.0	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.41	10363.325	10363.325	12.500	12.5	0.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.41	10259.912	10259.912	12.500	12.5	0.0	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.41	10043.100	10043.100	12.500	12.5	0.0	NO		NO	MM
7	7 170928M3_8	Standard	12.500	3.41	10223.871	10223.871	12.500	12.5	0.0	NO		NO	bb
8	8 170928M3_9	Standard	12.500	3.41	9177.393	9177.393	12.500	12.5	0.0	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.41	8248.921	8248.921	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.54	54132.344	54132.344	12.500	12.5	0.0	NO		NO	MM
2	2 170928M3_3	Standard	12.500	3.54	51254.402	51254.402	12.500	12.5	0.0	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.54	58439.441	58439.441	12.500	12.5	0.0	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.54	56309.828	56309.828	12.500	12.5	0.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.54	54828.953	54828.953	12.500	12.5	0.0	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.54	56280.609	56280.609	12.500	12.5	0.0	NO		NO	bb
7	7 170928M3_8	Standard	12.500	3.54	52279.965	52279.965	12.500	12.5	0.0	NO		NO	MM
8	8 170928M3_9	Standard	12.500	3.54	43796.883	43796.883	12.500	12.5	0.0	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.54	39576.875	39576.875	12.500	12.5	0.0	NO		NO	MM

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.72	72326.930	72326.930	12.500	12.5	0.0	NO		NO	bb
2	2 170928M3_3	Standard	12.500	3.72	65070.875	65070.875	12.500	12.5	0.0	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.72	77506.609	77506.609	12.500	12.5	0.0	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.72	75540.500	75540.500	12.500	12.5	0.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.72	71278.398	71278.398	12.500	12.5	0.0	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.72	71933.648	71933.648	12.500	12.5	0.0	NO		NO	bb
7	7 170928M3_8	Standard	12.500	3.72	69850.703	69850.703	12.500	12.5	0.0	NO		NO	MM
8	8 170928M3_9	Standard	12.500	3.72	56247.984	56247.984	12.500	12.5	0.0	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.72	51321.887	51321.887	12.500	12.5	0.0	NO		NO	MM

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.77	12113.262	12113.262	12.500	12.5	0.0	NO		NO	MM
2	2 170928M3_3	Standard	12.500	3.76	10662.599	10662.599	12.500	12.5	0.0	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.77	12924.893	12924.893	12.500	12.5	0.0	NO		NO	MM
4	4 170928M3_5	Standard	12.500	3.77	12652.497	12652.497	12.500	12.5	0.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.77	11796.213	11796.213	12.500	12.5	0.0	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.77	12068.550	12068.550	12.500	12.5	0.0	NO		NO	bb
7	7 170928M3_8	Standard	12.500	3.77	11814.097	11814.097	12.500	12.5	0.0	NO		NO	bb
8	8 170928M3_9	Standard	12.500	3.77	10742.266	10742.266	12.500	12.5	0.0	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.77	9678.761	9678.761	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	3.88	60632.020	60632.020	12.500	12.5	0.0	NO		NO	bb
2	2 170928M3_3	Standard	12.500	3.88	56509.246	56509.246	12.500	12.5	0.0	NO		NO	bb
3	3 170928M3_4	Standard	12.500	3.88	64412.648	64412.648	12.500	12.5	0.0	NO		NO	bb
4	4 170928M3_5	Standard	12.500	3.88	65636.758	65636.758	12.500	12.5	0.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	3.88	62219.957	62219.957	12.500	12.5	0.0	NO		NO	bb
6	6 170928M3_7	Standard	12.500	3.89	62219.496	62219.496	12.500	12.5	0.0	NO		NO	bb
7	7 170928M3_8	Standard	12.500	3.88	60287.148	60287.148	12.500	12.5	0.0	NO		NO	bb
8	8 170928M3_9	Standard	12.500	3.88	50853.023	50853.023	12.500	12.5	0.0	NO		NO	bb
9	9 170928M3_10	Standard	12.500	3.89	46549.582	46549.582	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C7-PFUnA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	4.04	70220.734	70220.734	12.500	12.5	0.0	NO		NO	bb
2	2 170928M3_3	Standard	12.500	4.03	64345.391	64345.391	12.500	12.5	0.0	NO		NO	MM
3	3 170928M3_4	Standard	12.500	4.04	75202.695	75202.695	12.500	12.5	0.0	NO		NO	bb
4	4 170928M3_5	Standard	12.500	4.04	72922.531	72922.531	12.500	12.5	0.0	NO		NO	bb
5	5 170928M3_6	Standard	12.500	4.04	70058.250	70058.250	12.500	12.5	0.0	NO		NO	bb
6	6 170928M3_7	Standard	12.500	4.04	71324.938	71324.938	12.500	12.5	0.0	NO		NO	bb
7	7 170928M3_8	Standard	12.500	4.04	66728.492	66728.492	12.500	12.5	0.0	NO		NO	bb
8	8 170928M3_9	Standard	12.500	4.04	56797.375	56797.375	12.500	12.5	0.0	NO		NO	MM
9	9 170928M3_10	Standard	12.500	4.04	51209.441	51209.441	12.500	12.5	0.0	NO		NO	bb

Dataset: Untitled

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Printed: Friday, September 29, 2017 10:14:21 Pacific Daylight Time

Method: U:\Q4.PROMethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928M3_1	IPA	28-Sep-17	17:43:51
2	170928M3_2	ST170928M3-1 PFC CS-2 17I2809	28-Sep-17	17:54:38
3	170928M3_3	ST170928M3-2 PFC CS-1 17I2810	28-Sep-17	18:05:24
4	170928M3_4	ST170928M3-3 PFC CS0 17I2811	28-Sep-17	18:16:11
5	170928M3_5	ST170928M3-4 PFC CS1 17I2812	28-Sep-17	18:26:58
6	170928M3_6	ST170928M3-5 PFC CS2 17I2813	28-Sep-17	18:37:36
7	170928M3_7	ST170928M3-6 PFC CS3 17I2814	28-Sep-17	18:48:22
8	170928M3_8	ST170928M3-7 PFC CS4 17I2815	28-Sep-17	18:59:01
9	170928M3_9	ST170928M3-8 PFC CS5 17I2816	28-Sep-17	19:09:47
10	170928M3_10	ST170928M3-9 PFC CS6 17I2817	28-Sep-17	19:20:33
11	170928M3_11	ST170928M3-10 PFC CS7 17I2818	28-Sep-17	19:31:12
12	170928M3_12	IPA	28-Sep-17	19:41:51
13	170928M3_13	ICV170928M3-1 PFC ICV 17I2808	28-Sep-17	19:52:37

Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:33:35

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-29-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

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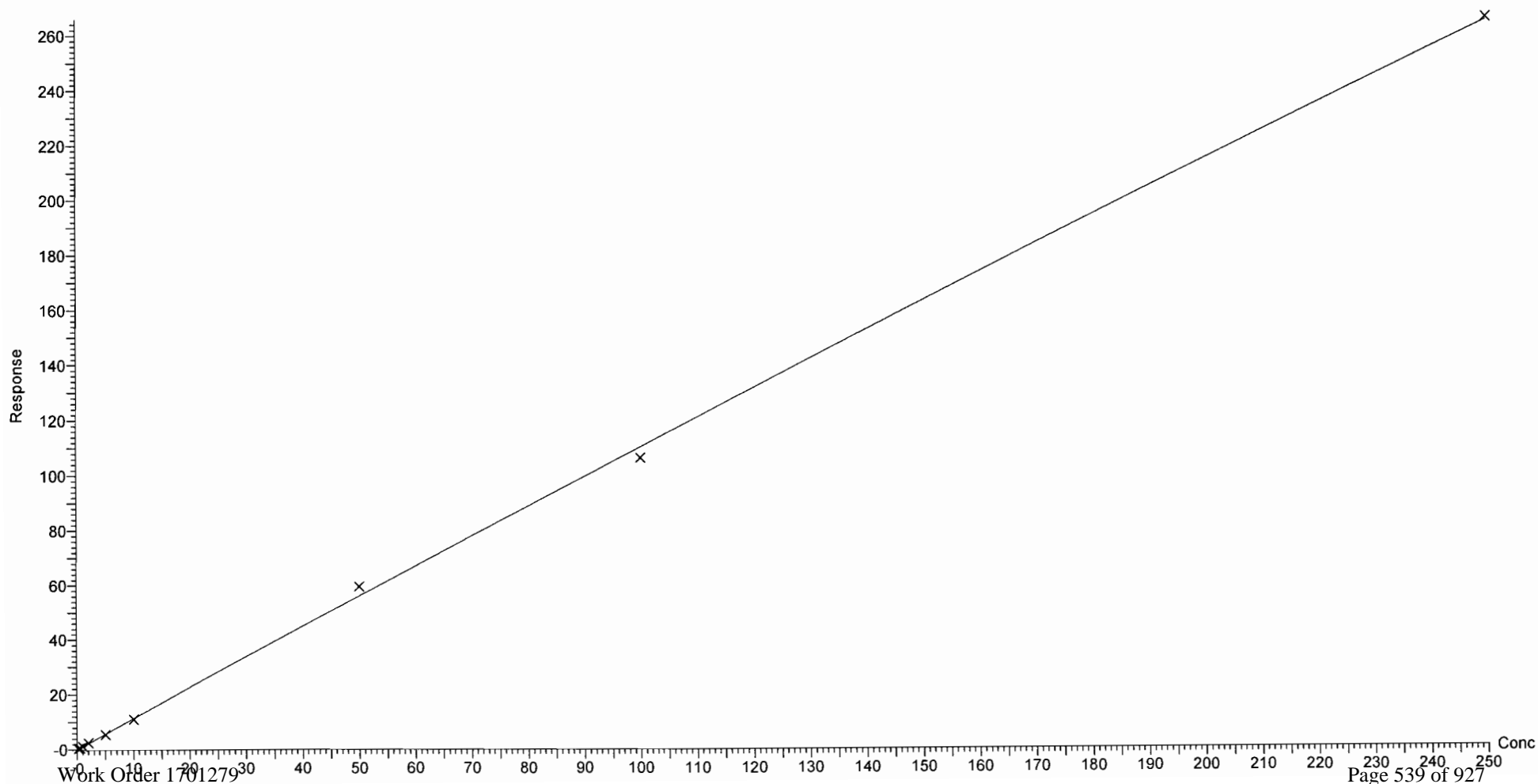
Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999037$

Calibration curve: $-0.000300068 * x^2 + 1.13412 * x + 0.042273$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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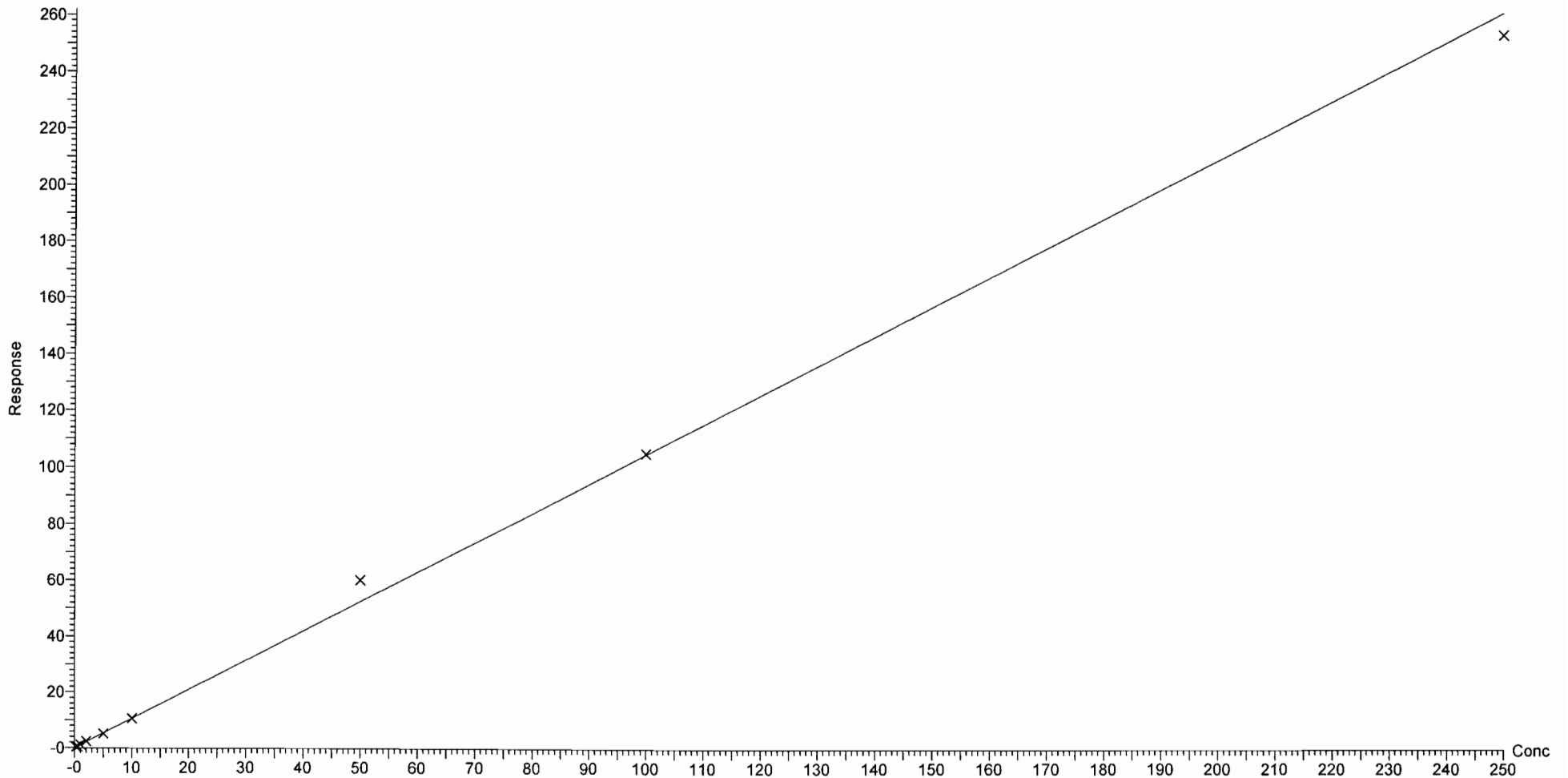
Compound name: PFPeA

Correlation coefficient: $r = 0.998366$, $r^2 = 0.996735$

Calibration curve: $1.04748 * x + 0.0392114$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:33:35

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-29-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

8 am 9/29/17

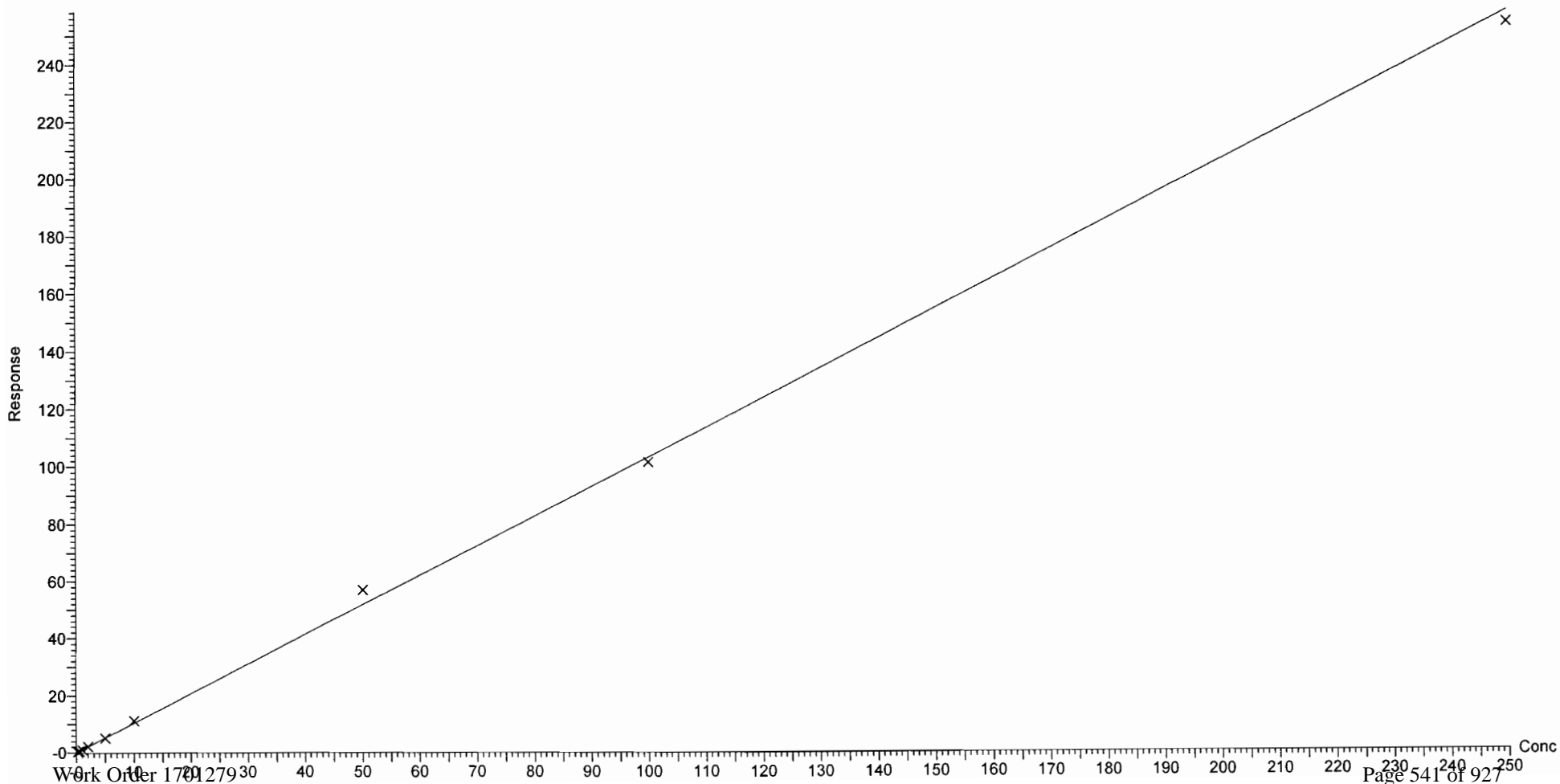
Compound name: PFBS

Correlation coefficient: $r = 0.999193$, $r^2 = 0.998386$

Calibration curve: $1.0332 * x + 0.035187$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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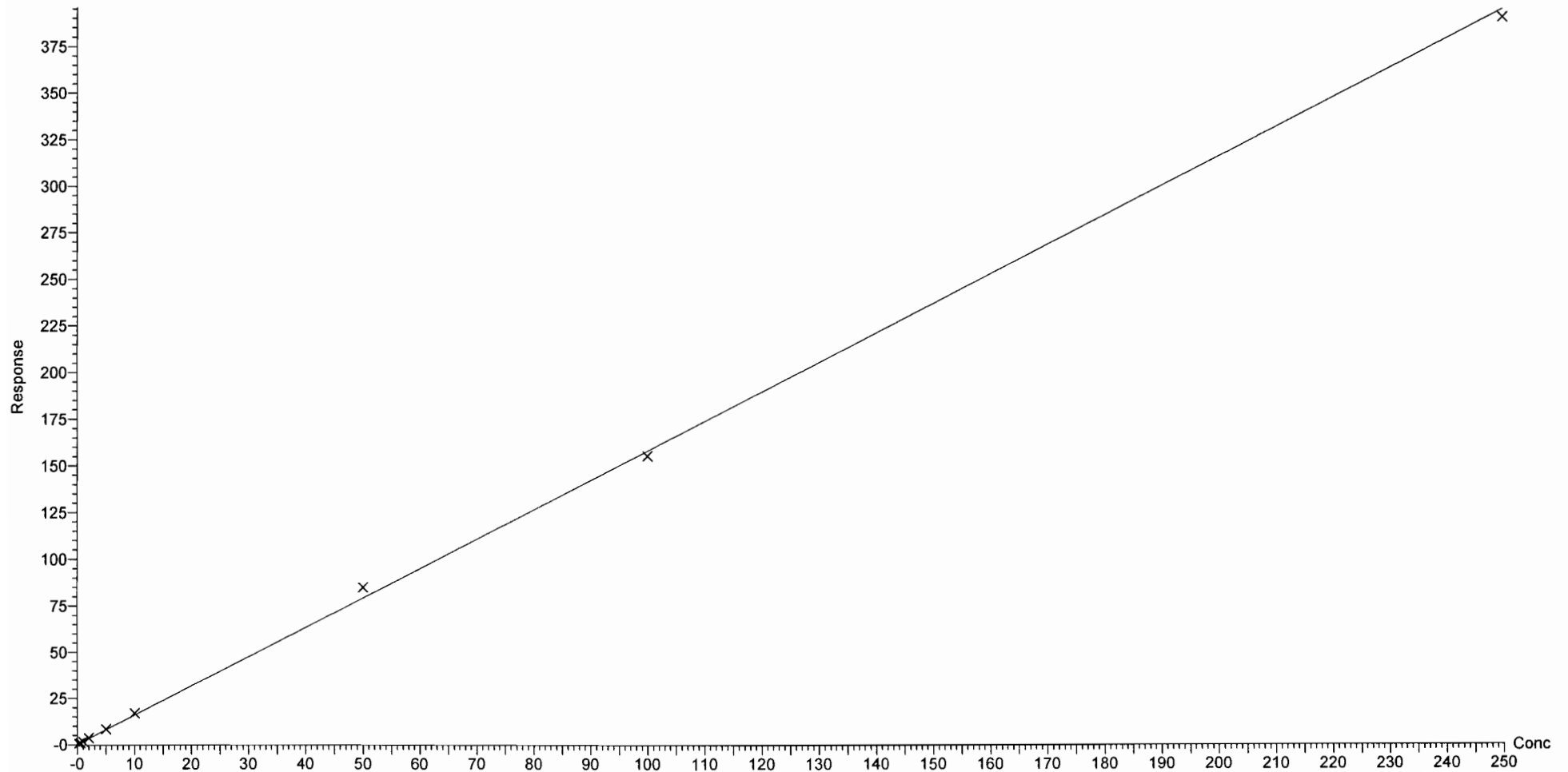
Compound name: PFHxA

Correlation coefficient: $r = 0.999515$, $r^2 = 0.999031$

Calibration curve: $1.58113 * x + 0.198995$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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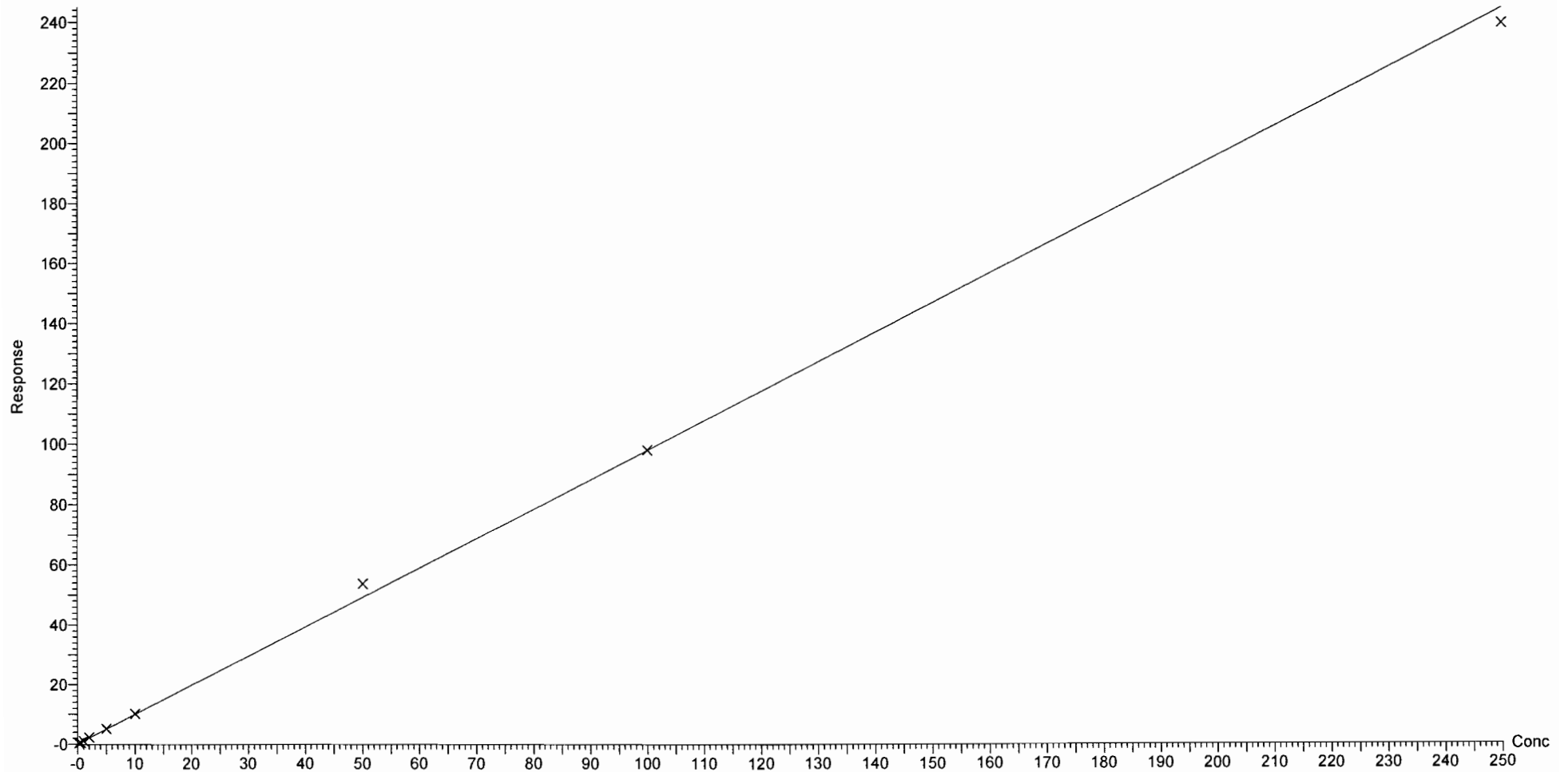
Compound name: PFHpA

Correlation coefficient: $r = 0.999298$, $r^2 = 0.998597$

Calibration curve: $0.979153 * x + 0.108639$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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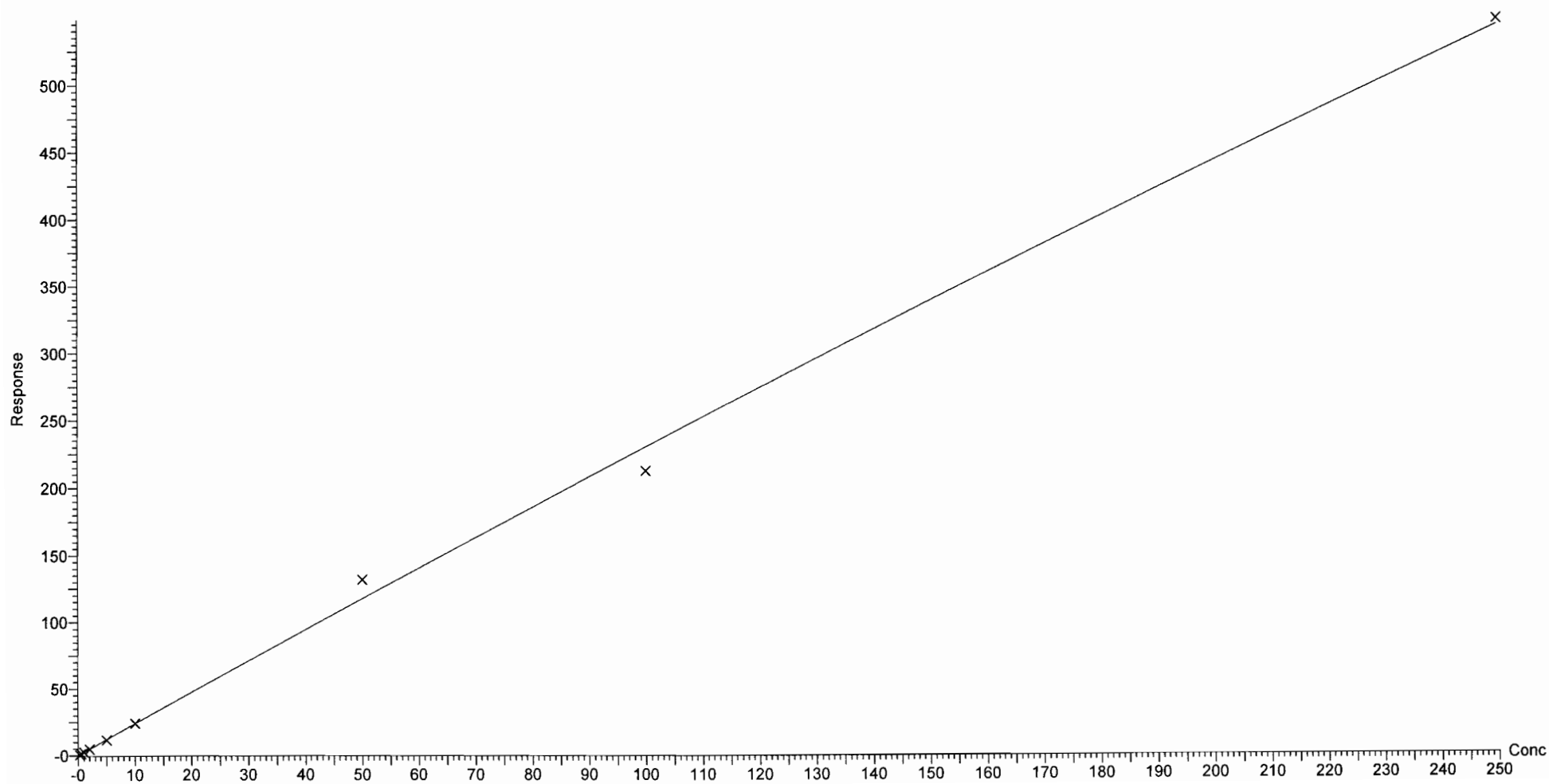
Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.996433$

Calibration curve: $-0.000864694 * x^2 + 2.39077 * x + 0.0759605$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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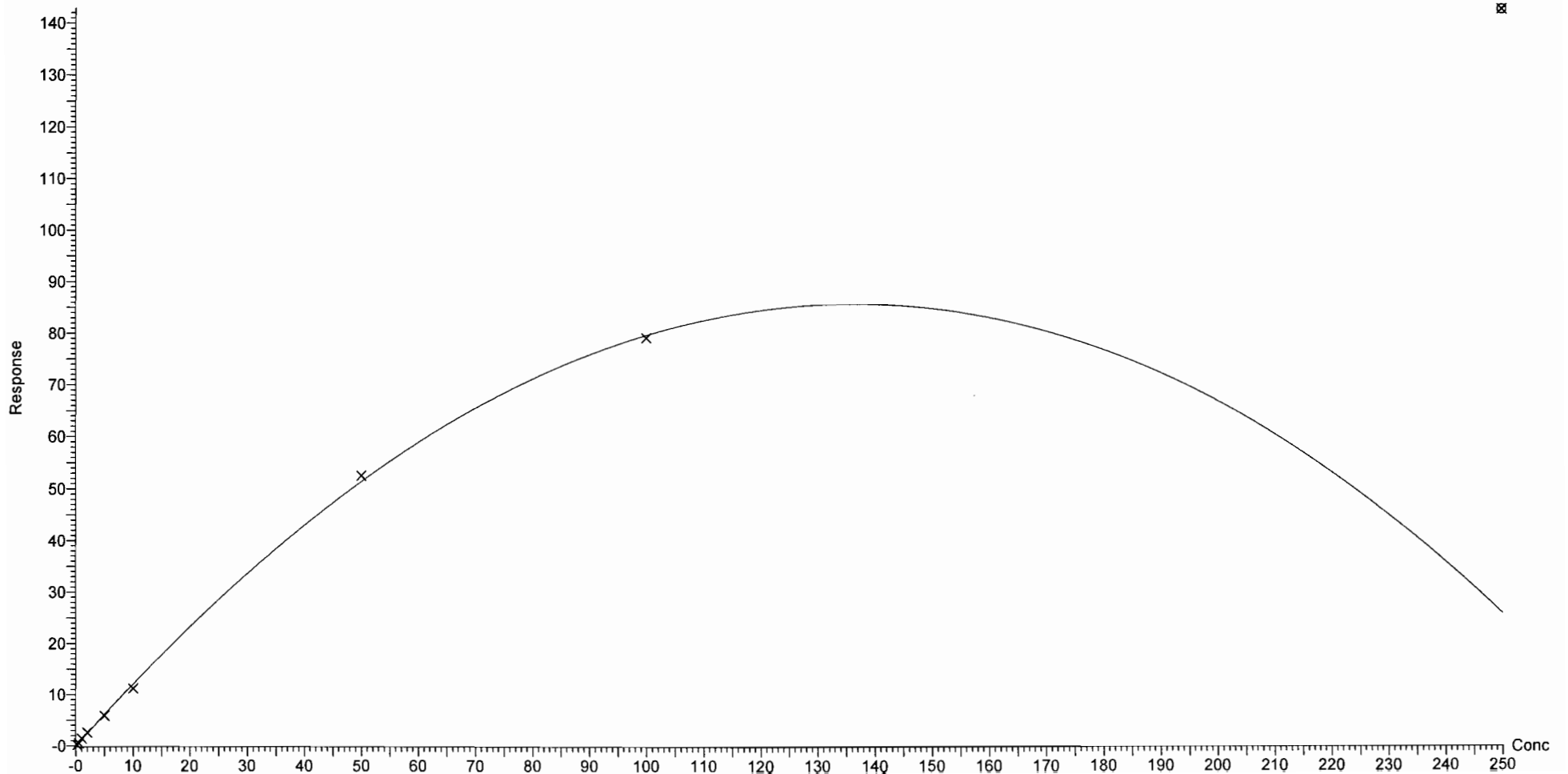
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.998225$

Calibration curve: $-0.00463184 * x^2 + 1.26145 * x + -0.0874012$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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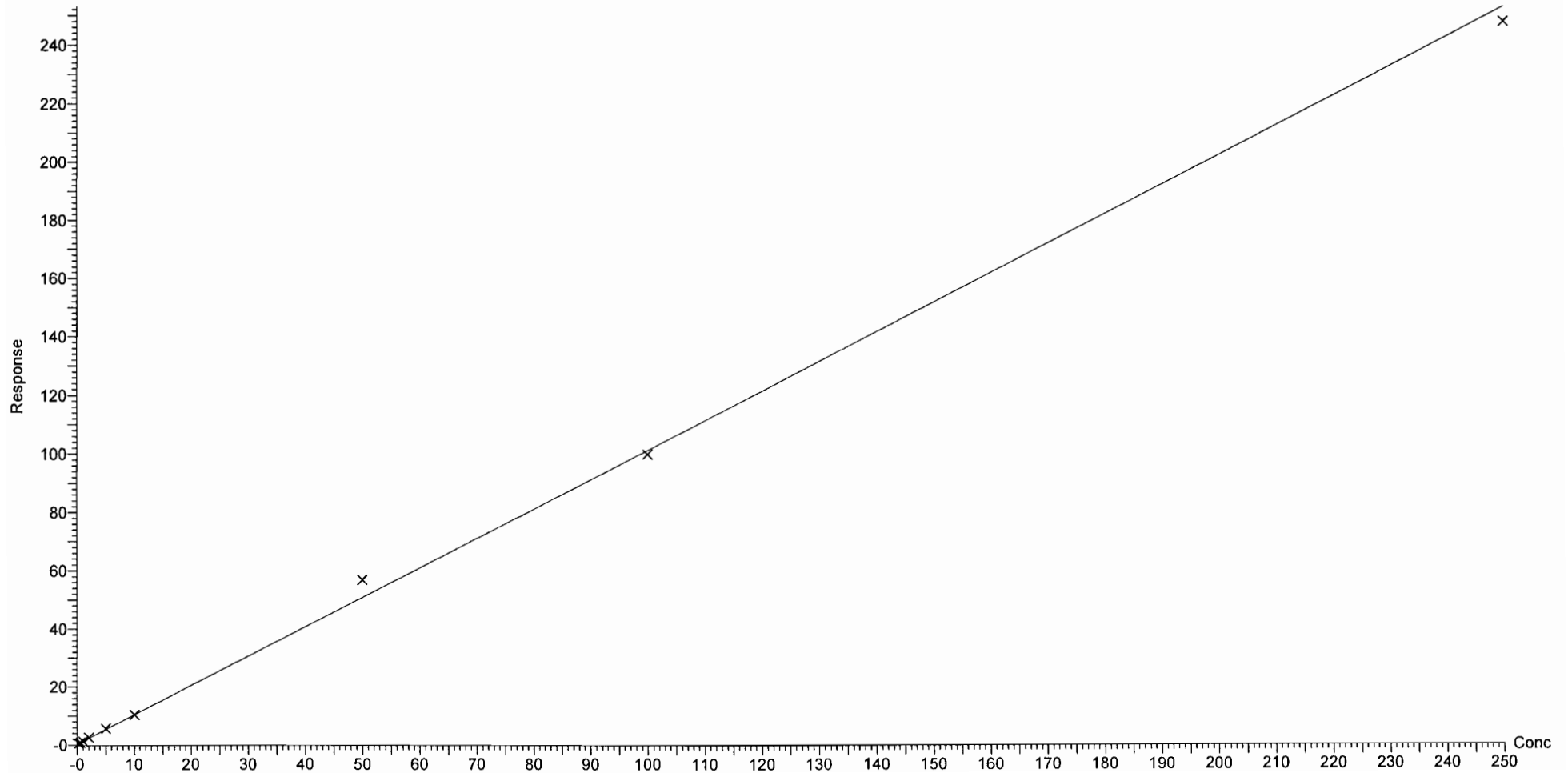
Compound name: L-PFOA

Correlation coefficient: $r = 0.998924$, $r^2 = 0.997848$

Calibration curve: $1.01105 * x + 0.297931$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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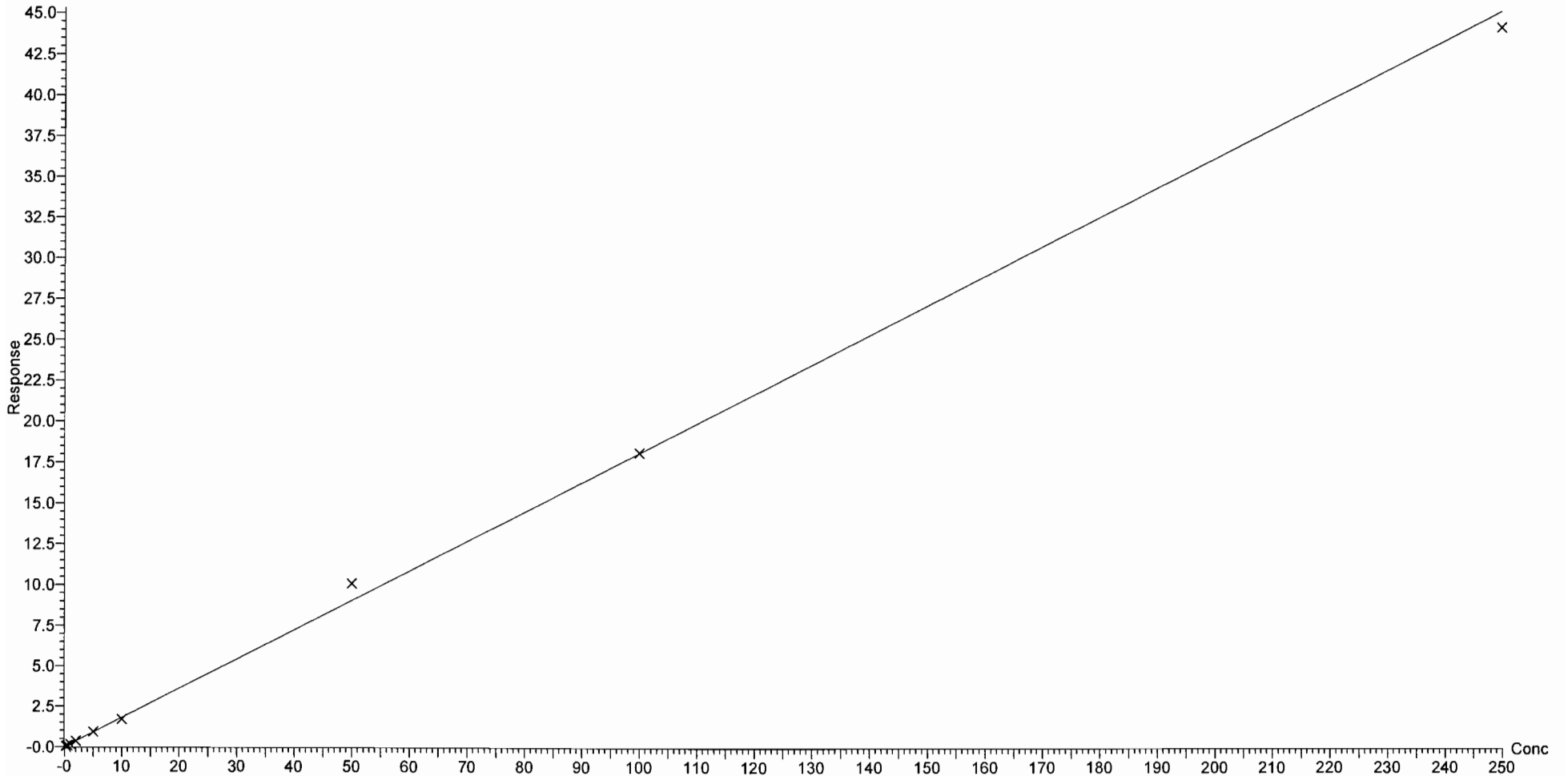
Compound name: PFHpS

Correlation coefficient: $r = 0.998997$, $r^2 = 0.997996$

Calibration curve: $0.181174 * x + 0.00048669$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



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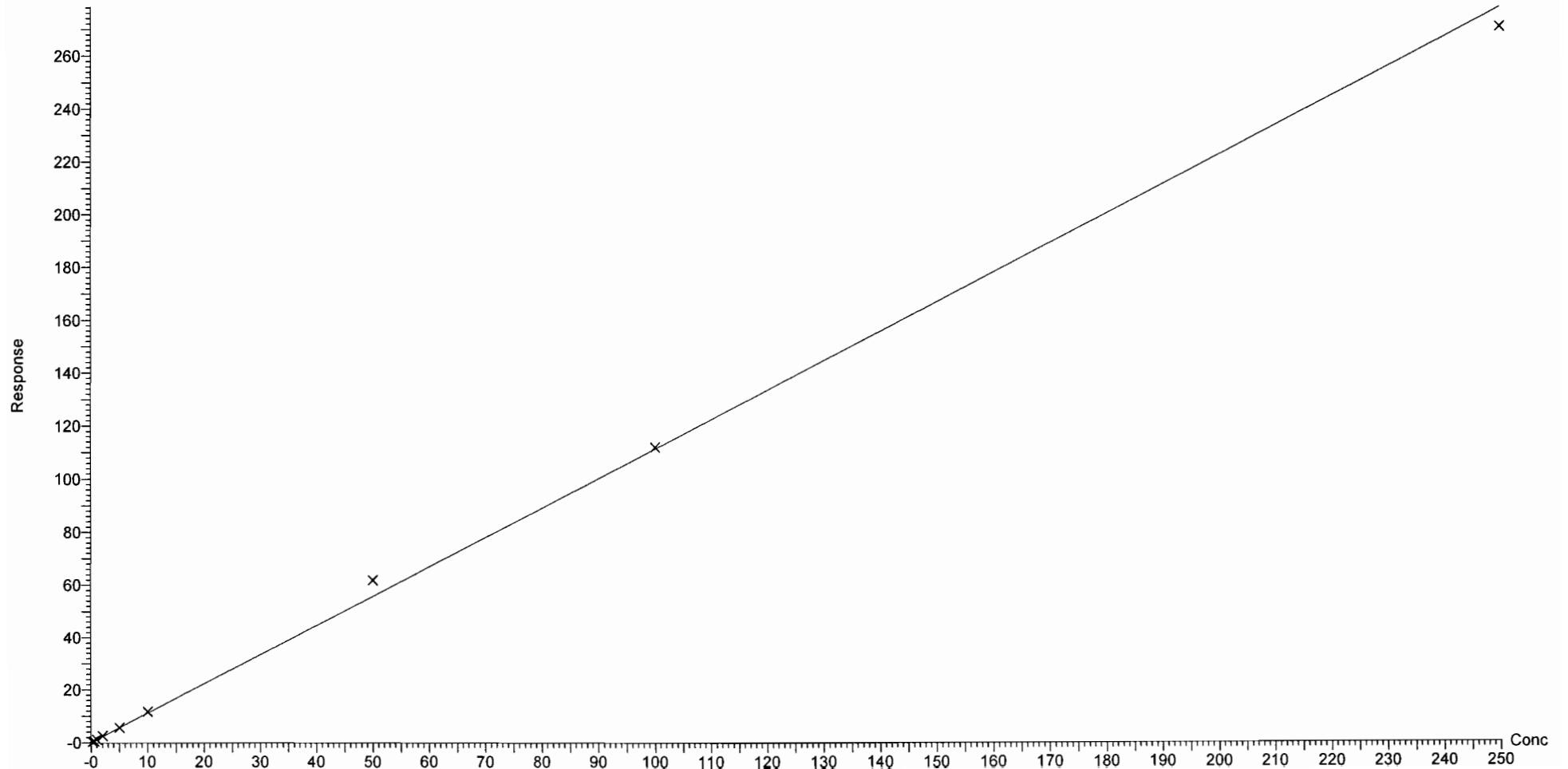
Compound name: PFNA

Correlation coefficient: $r = 0.998995$, $r^2 = 0.997991$

Calibration curve: $1.11302 * x + 0.0686515$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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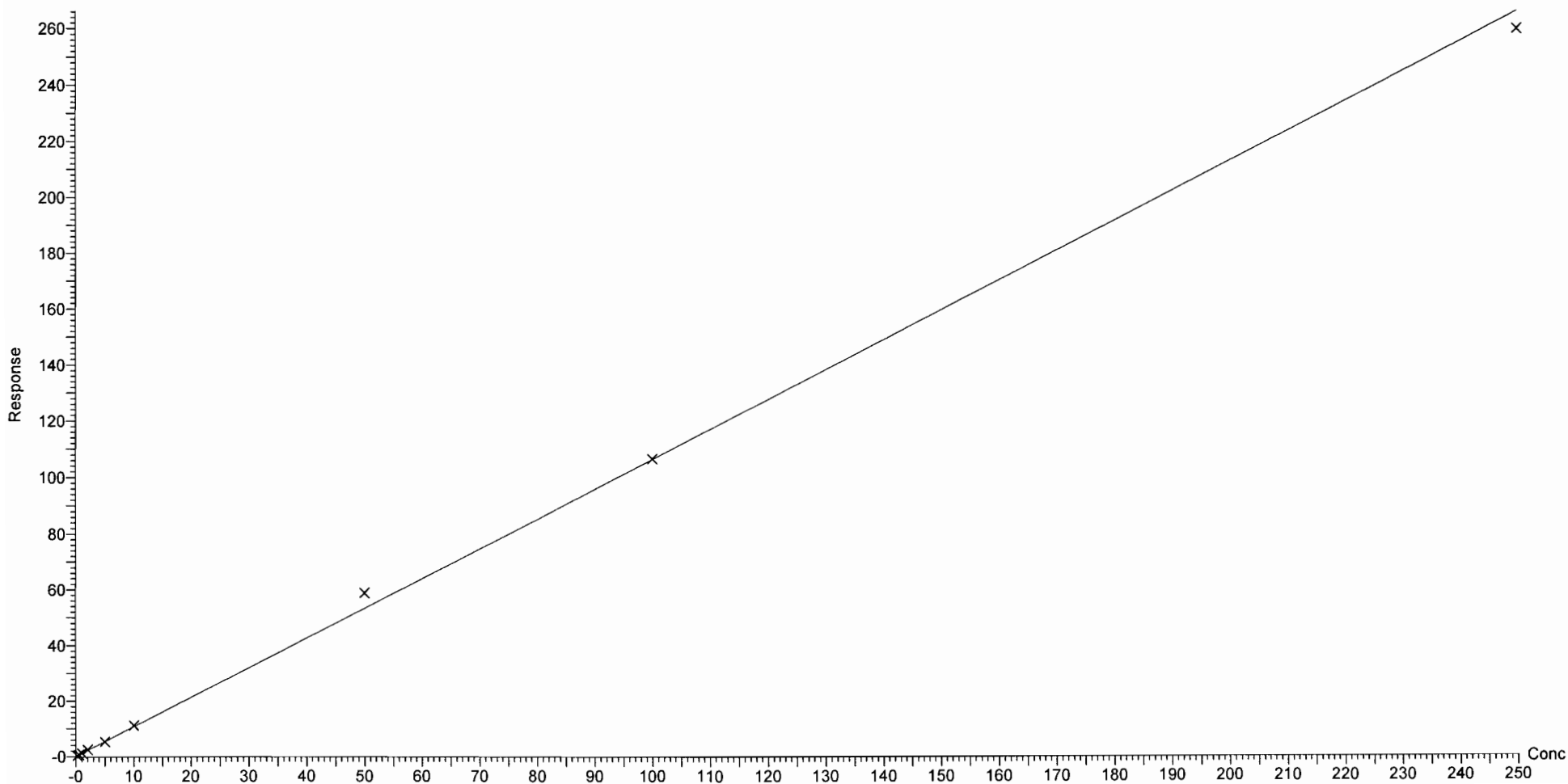
Compound name: PFOSA

Correlation coefficient: $r = 0.999111$, $r^2 = 0.998223$

Calibration curve: $1.0642 * x + 0.0854088$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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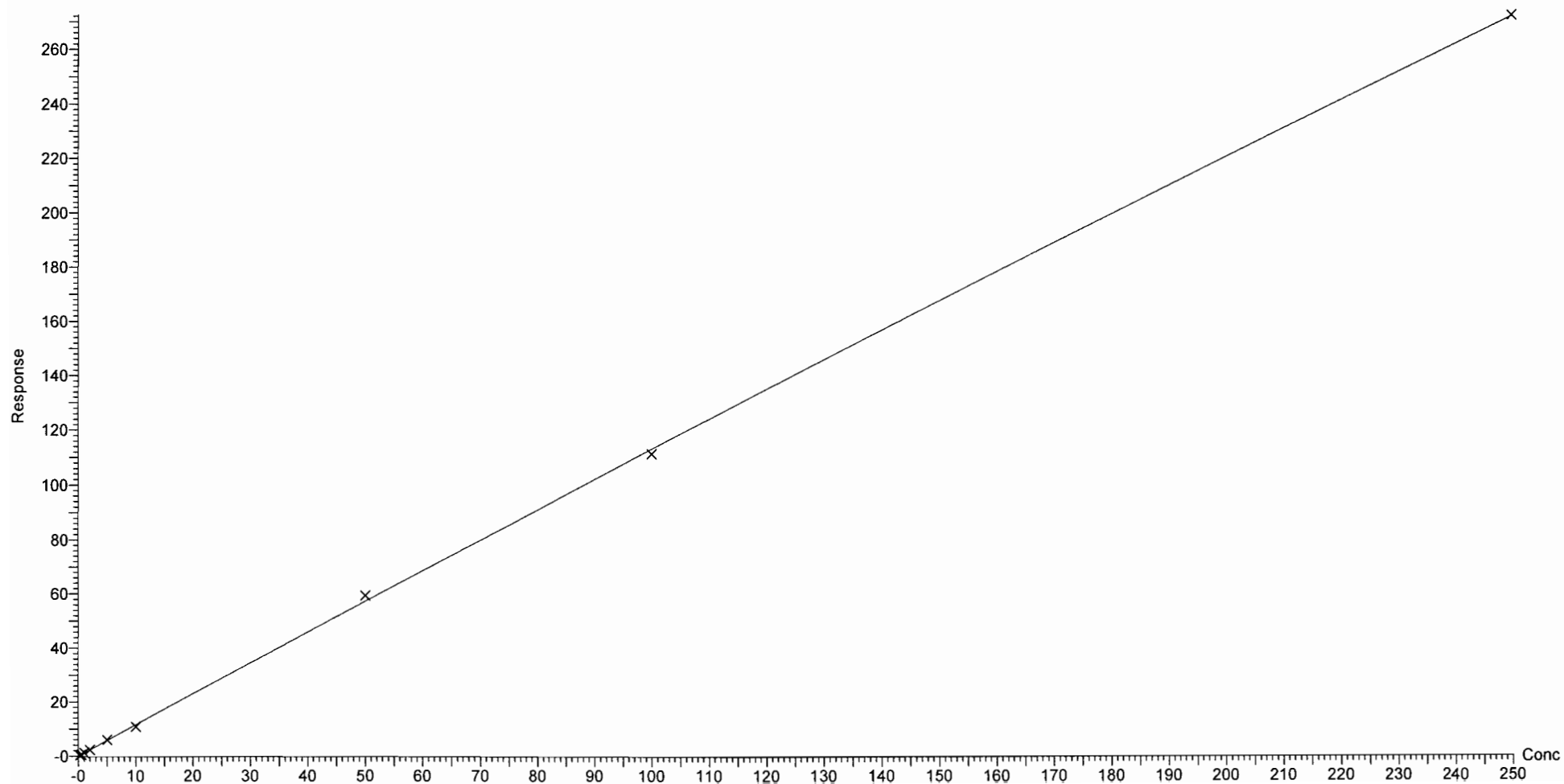
Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.999585$

Calibration curve: $-0.000293182 * x^2 + 1.16229 * x + -0.023741$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



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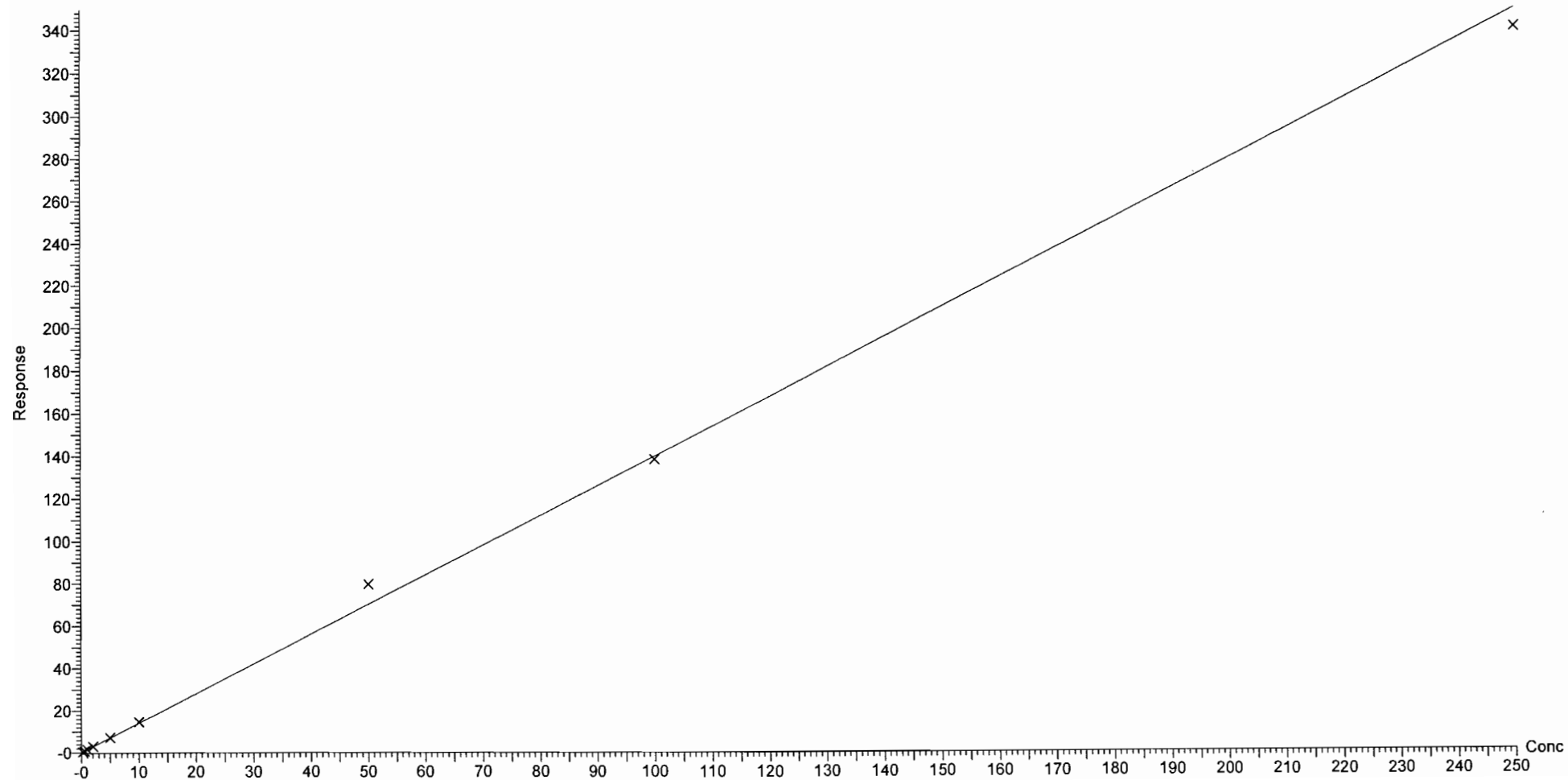
Compound name: PFDA

Correlation coefficient: $r = 0.998624$, $r^2 = 0.997249$

Calibration curve: $1.39815 * x + 0.130252$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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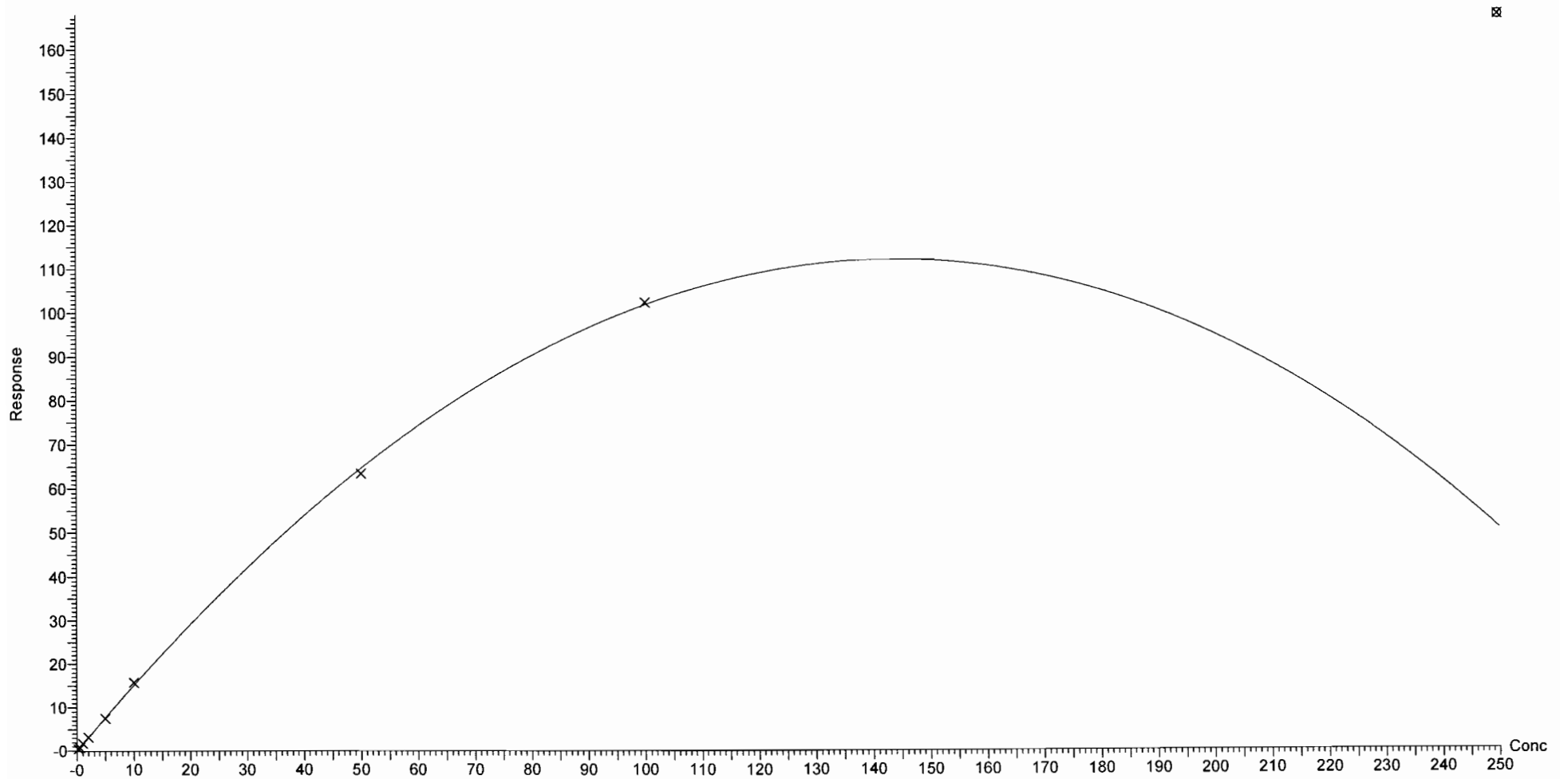
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.999484$

Calibration curve: $-0.00544716 * x^2 + 1.56431 * x + 0.00302826$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



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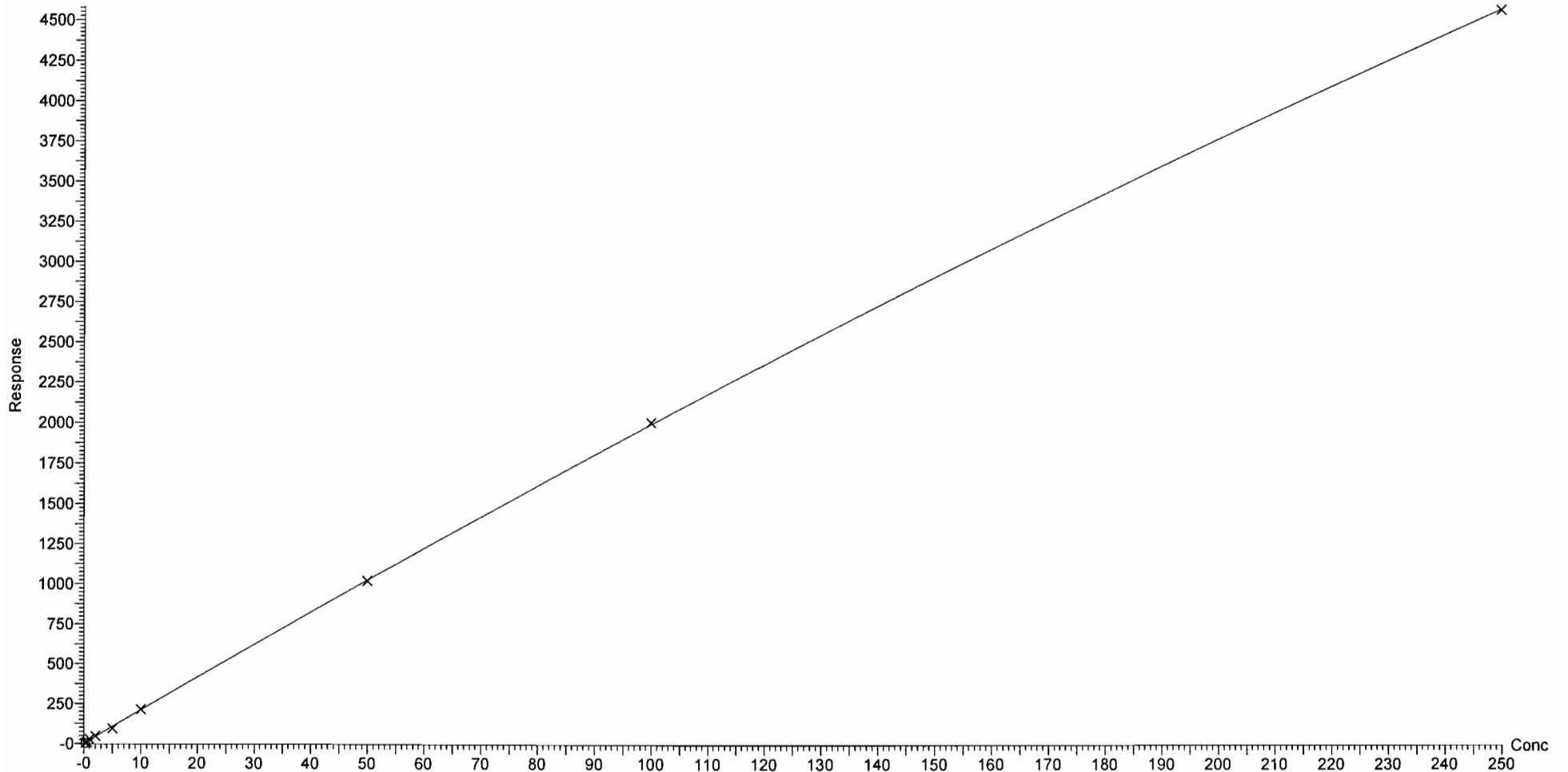
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999439$

Calibration curve: $-0.0108182 * x^2 + 21.0299 * x + 1.49788$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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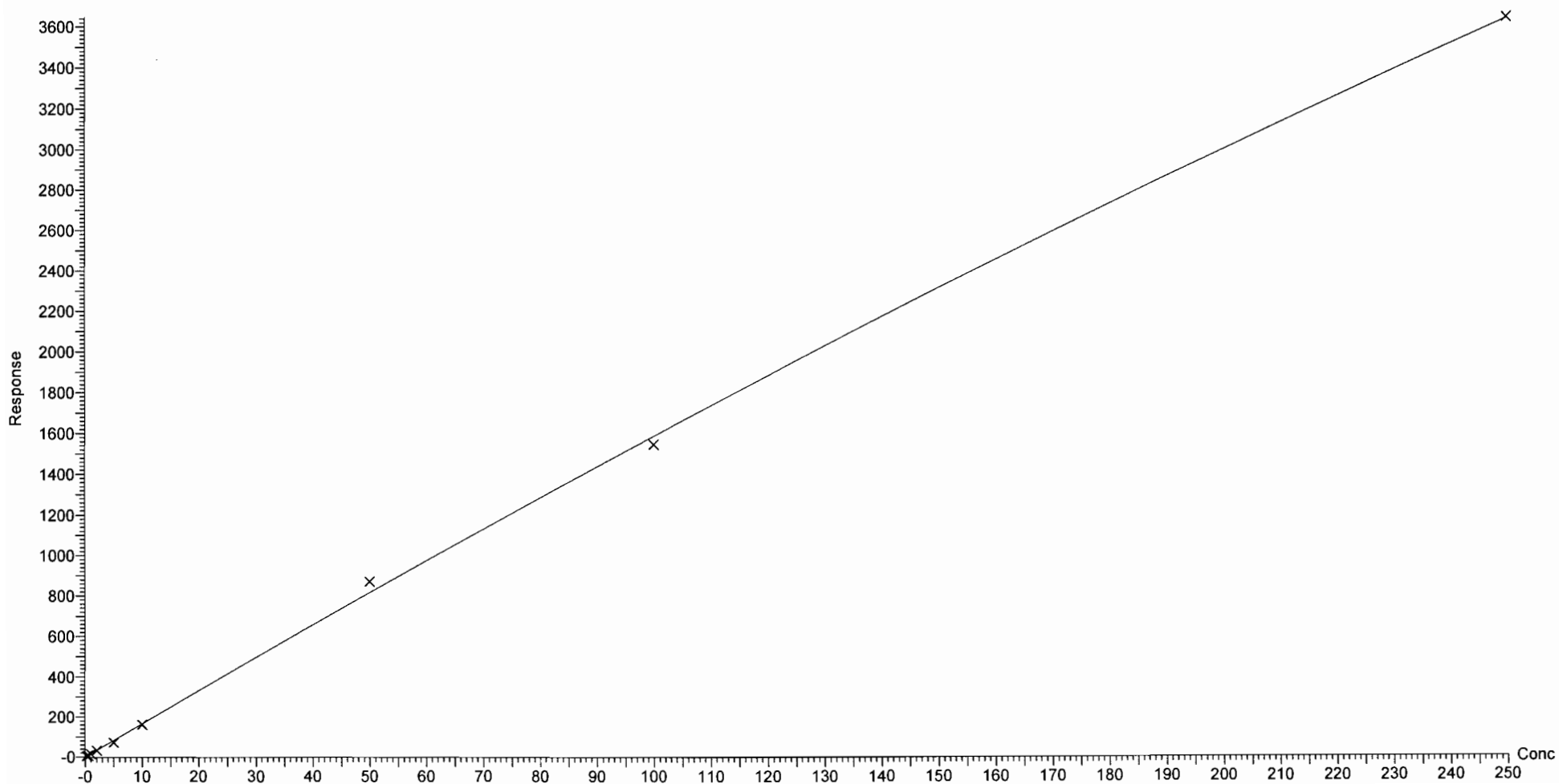
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.998865$

Calibration curve: $-0.00882433 * x^2 + 16.7677 * x + -0.921128$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

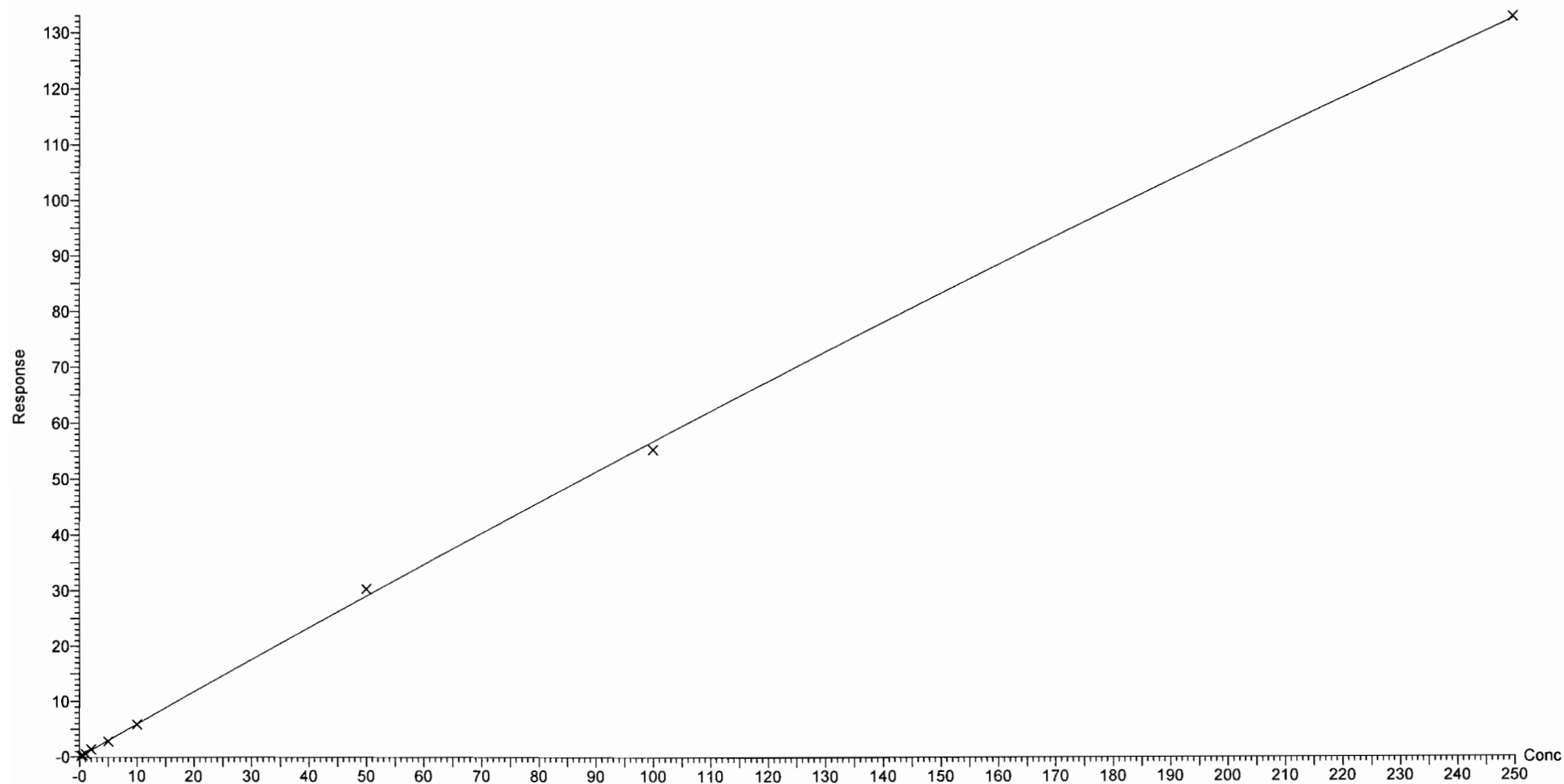
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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Compound name: PFUnA
Coefficient of Determination: $R^2 = 0.999358$
Calibration curve: $-0.000247632 * x^2 + 0.592739 * x + 0.0286222$
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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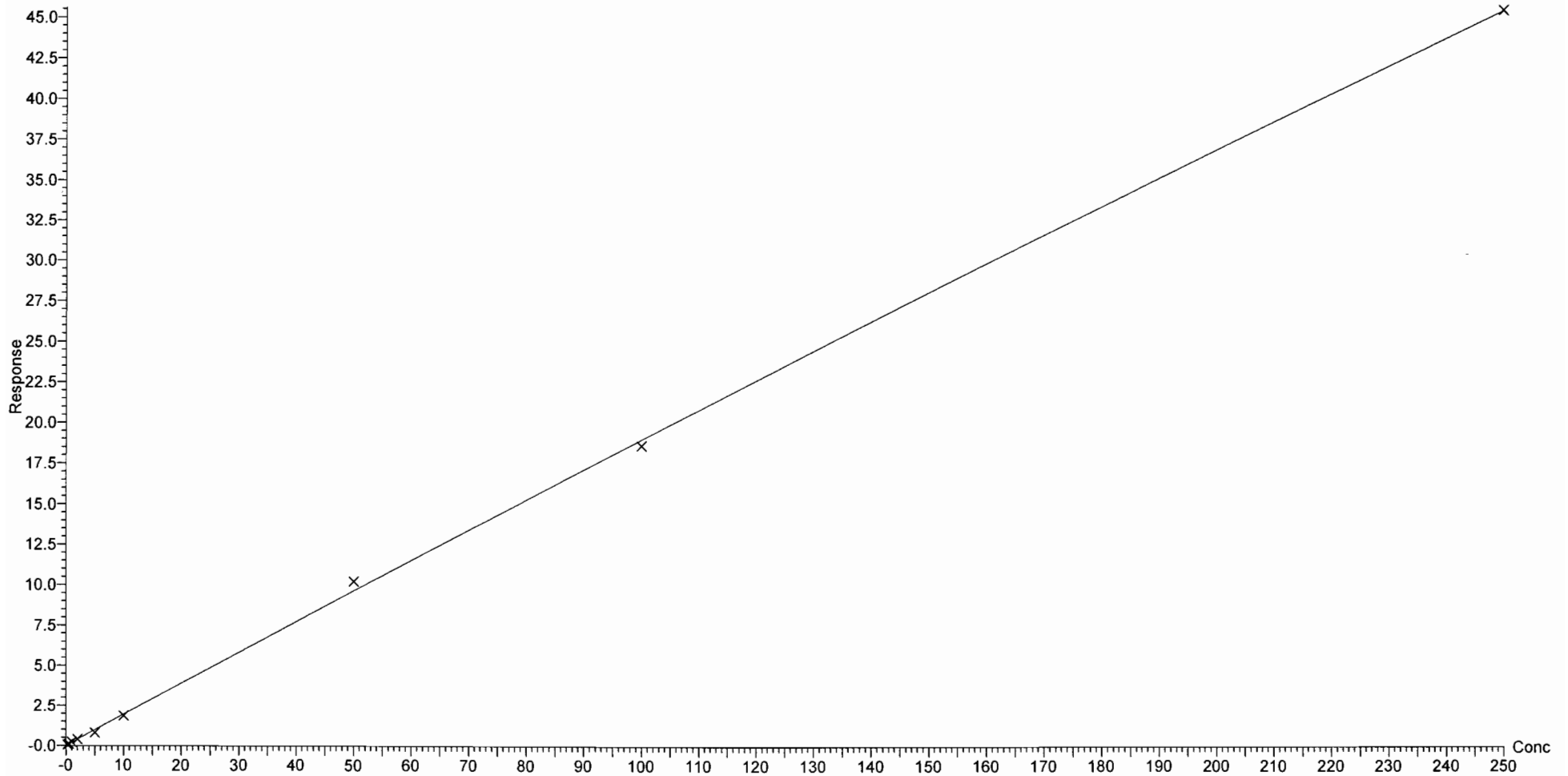
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.998834$

Calibration curve: $-5.15691e-005 * x^2 + 0.195103 * x + 0.000531303$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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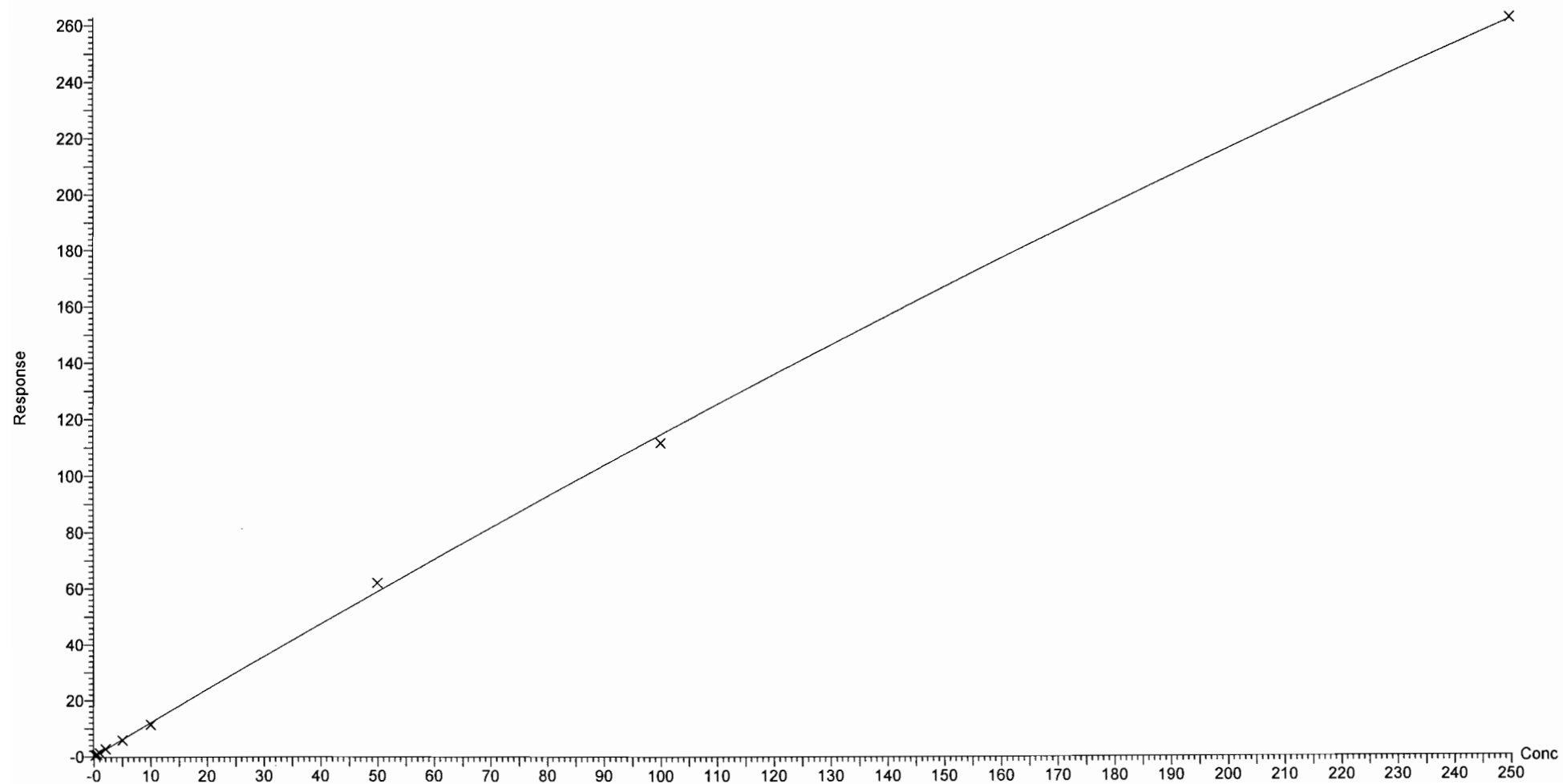
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.999208$

Calibration curve: $-0.000649665 * x^2 + 1.21076 * x + 0.0836458$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:00:34 Pacific Daylight Time

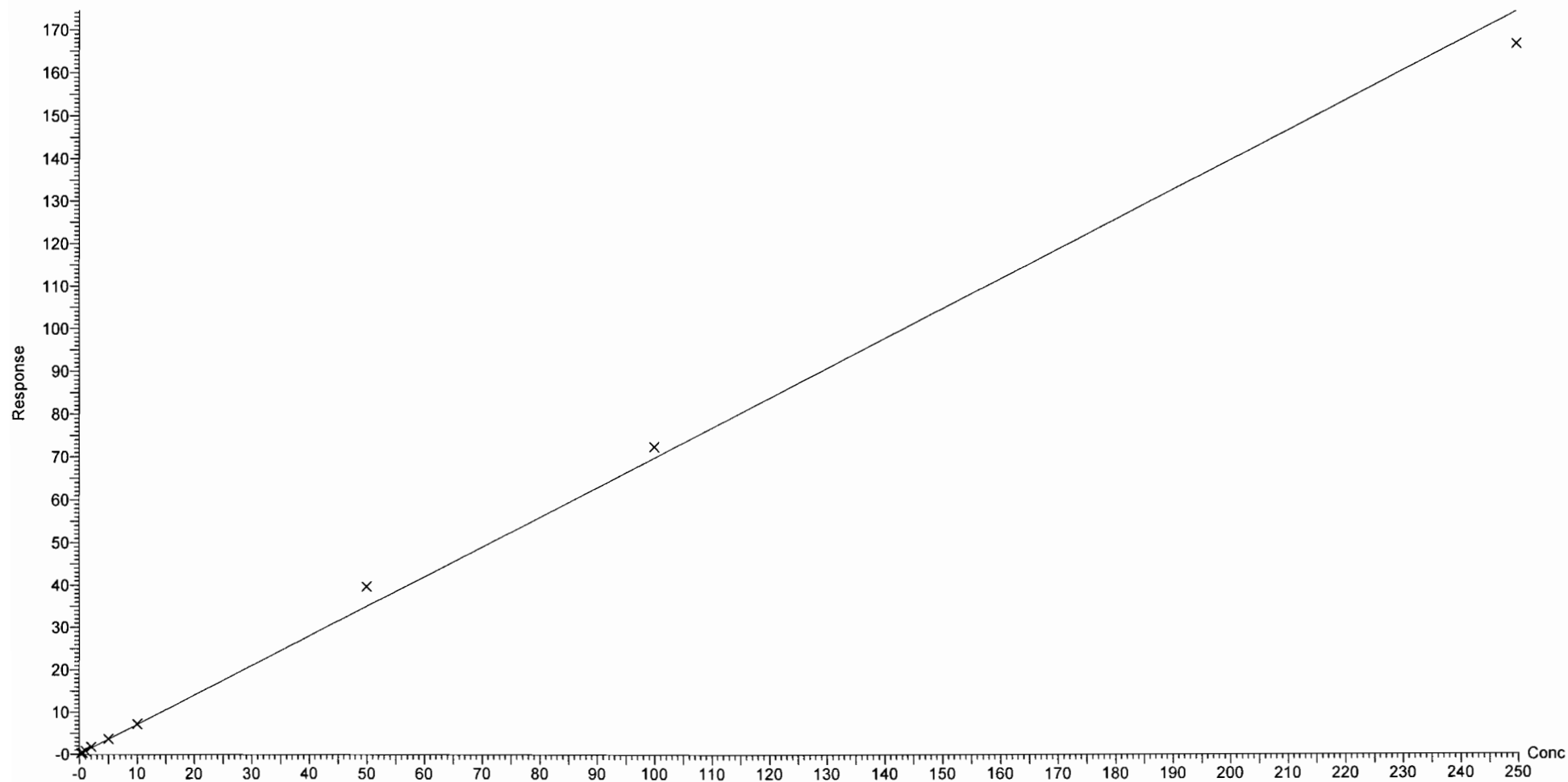
Compound name: PFTrDA

Correlation coefficient: $r = 0.998040$, $r^2 = 0.996084$

Calibration curve: $0.697862 * x + 0.0906233$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:00:34 Pacific Daylight Time

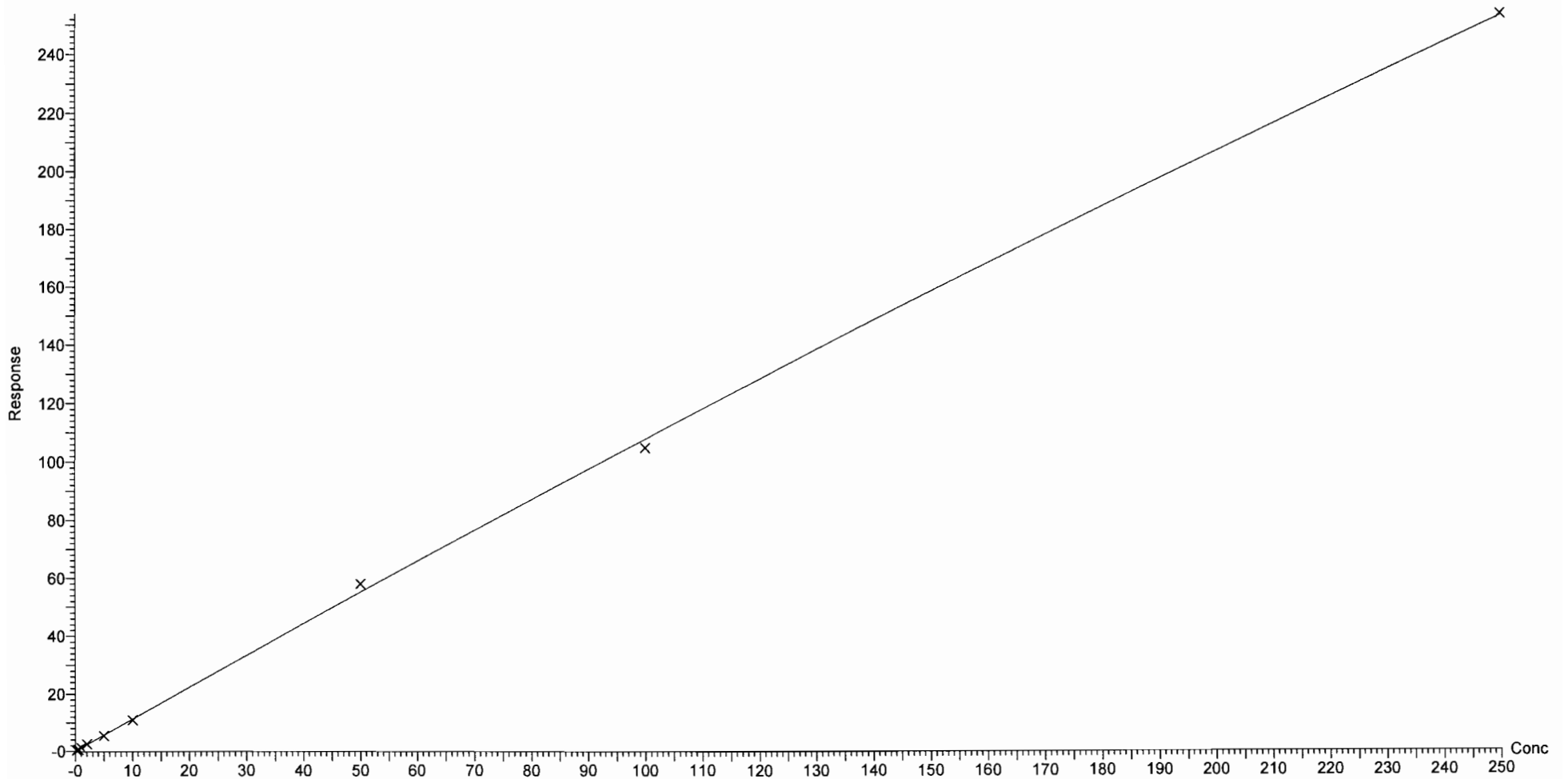
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999326$

Calibration curve: $-0.000443615 * x^2 + 1.12343 * x + 0.0760781$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:00:34 Pacific Daylight Time

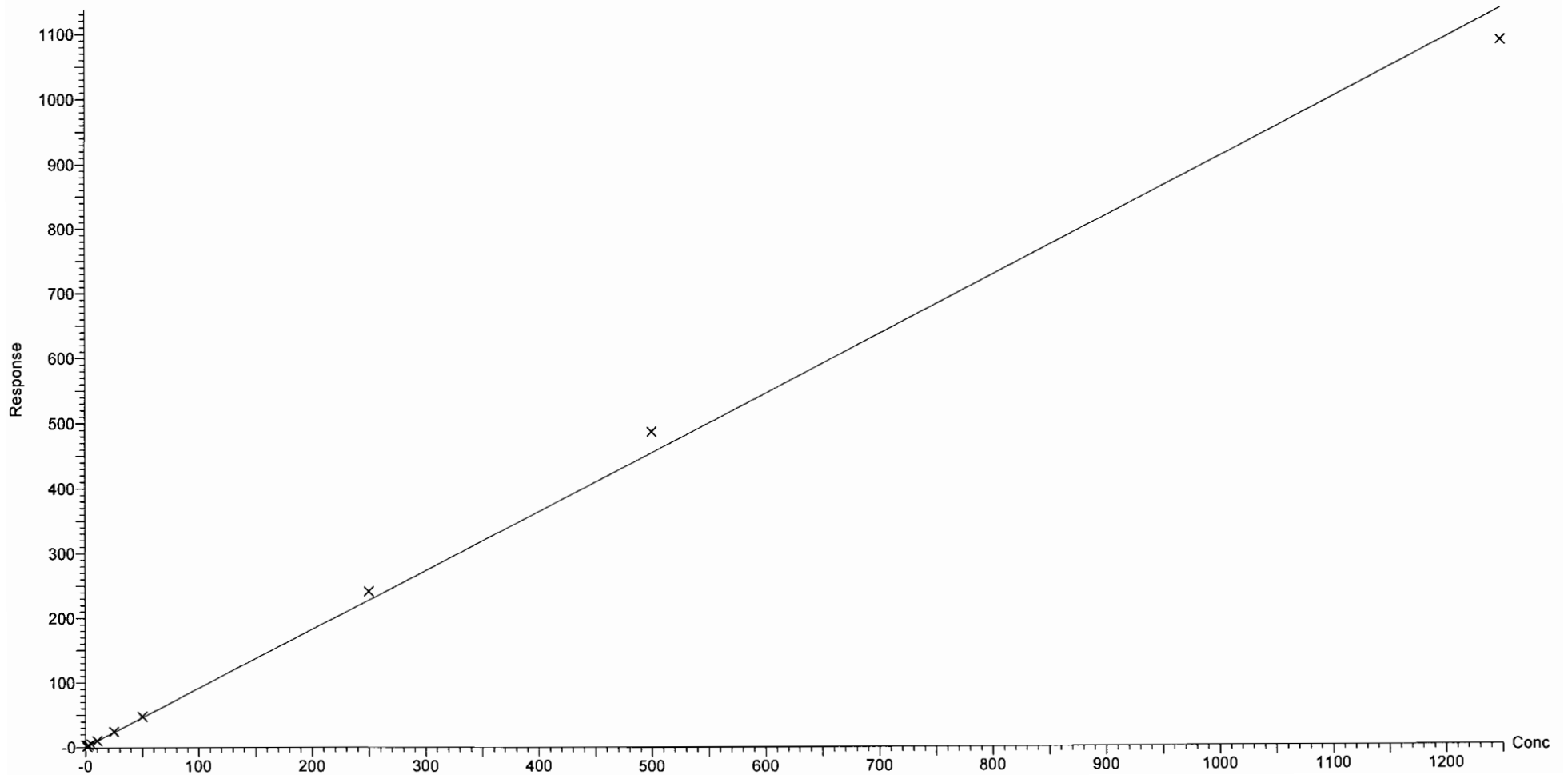
Compound name: N-EtFOSA

Correlation coefficient: $r = 0.998551$, $r^2 = 0.997105$

Calibration curve: $0.908948 * x + 0.45045$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:00:34 Pacific Daylight Time

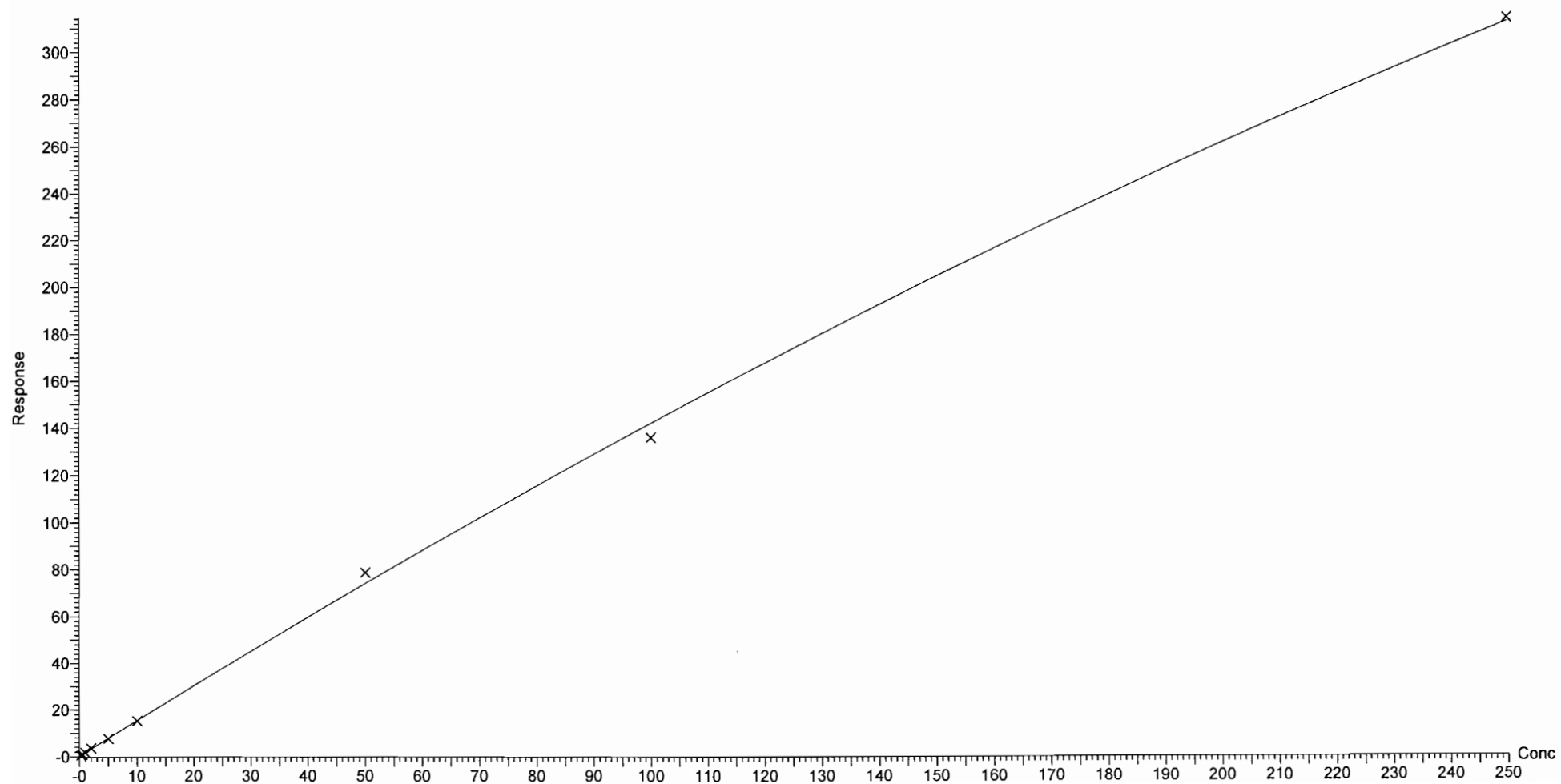
Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.998742$

Calibration curve: $-0.00113268 * x^2 + 1.53405 * x + 0.173478$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

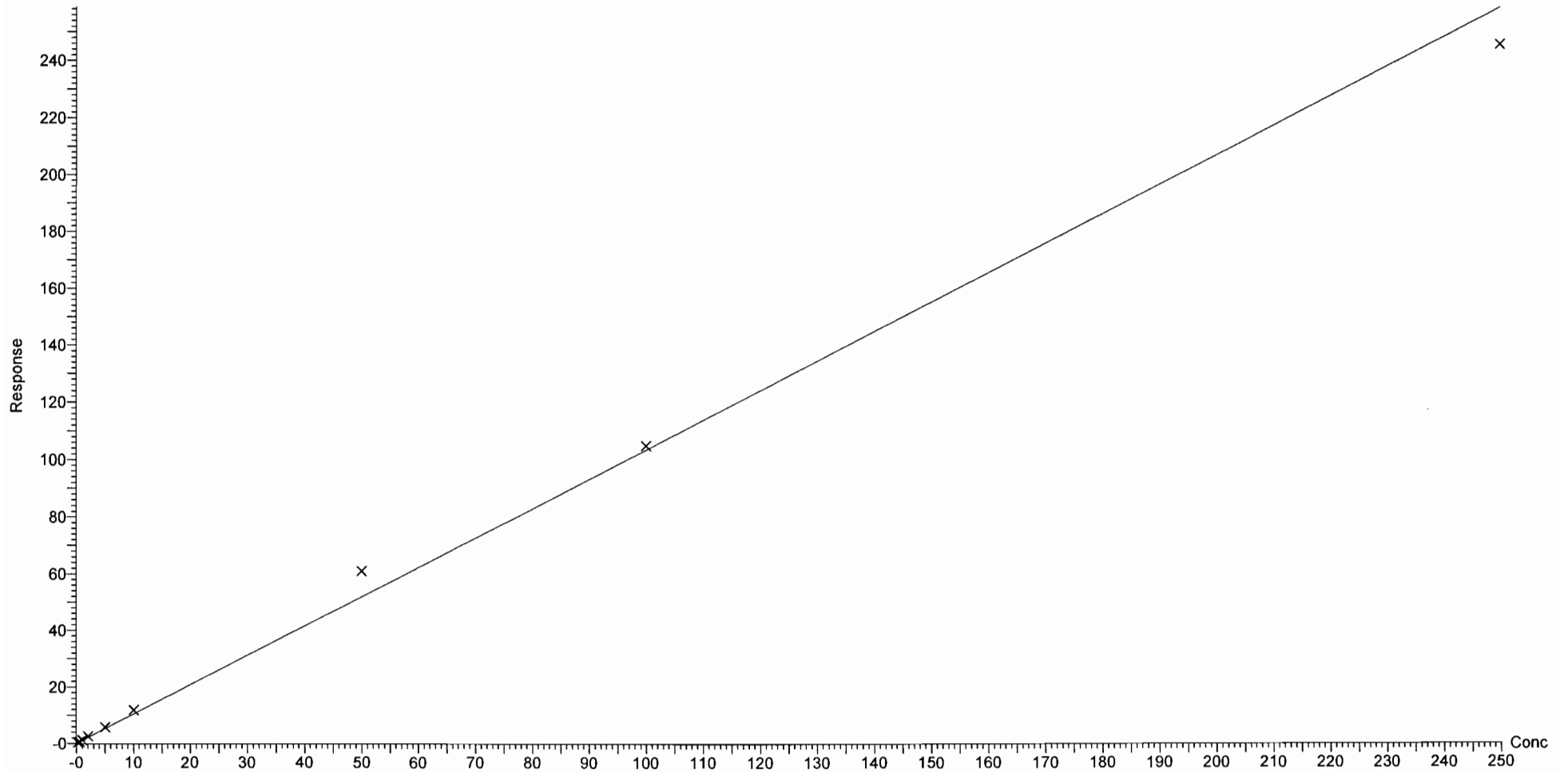
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time
Printed: Friday, September 29, 2017 10:00:34 Pacific Daylight Time

Compound name: PFODA
Correlation coefficient: $r = 0.996881$, $r^2 = 0.993772$
Calibration curve: $1.03409 * x + 0.144454$
Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: $1/x$, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:00:34 Pacific Daylight Time

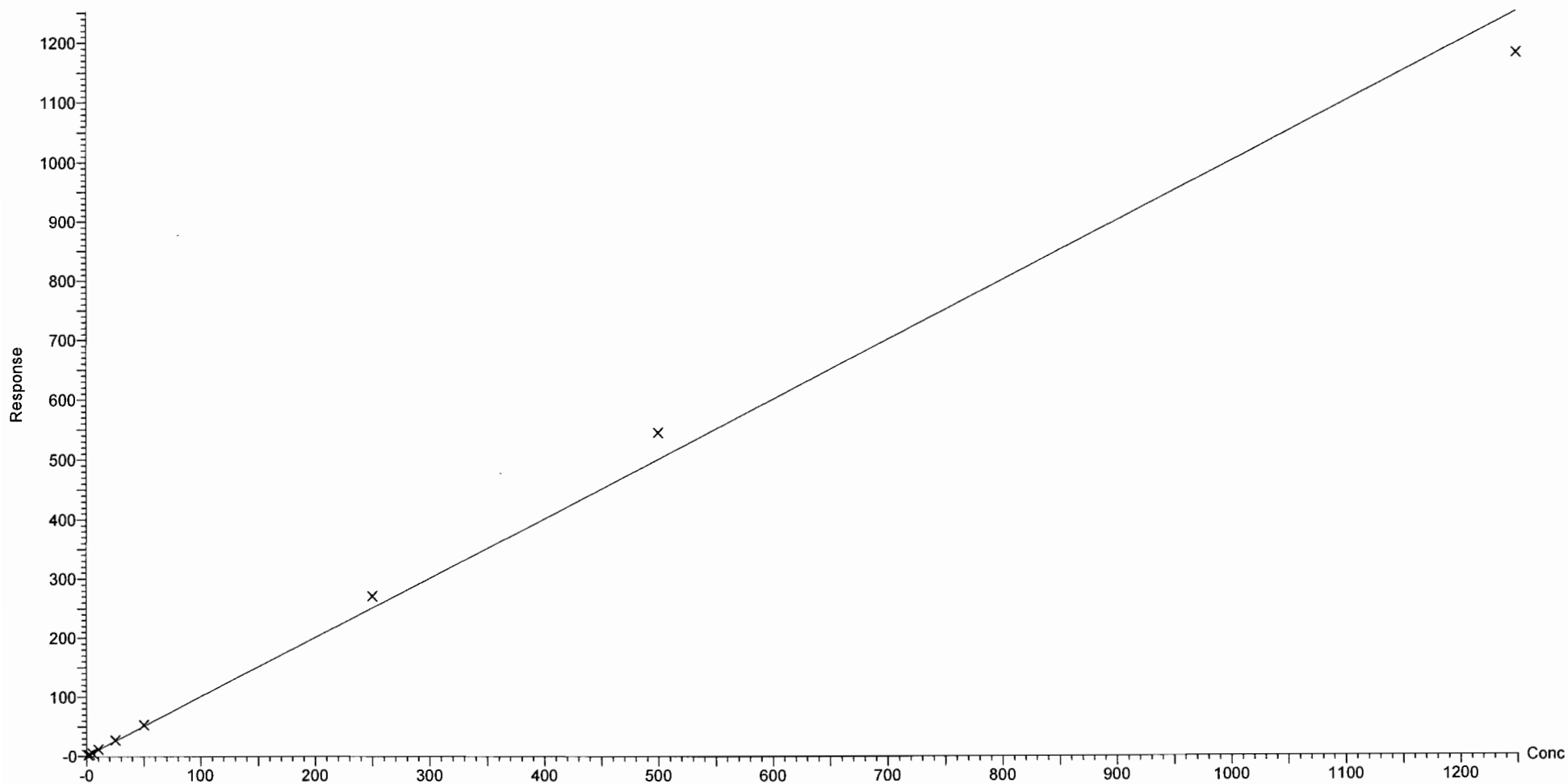
Compound name: N-MeFOSE

Correlation coefficient: $r = 0.997590$, $r^2 = 0.995185$

Calibration curve: $1.0016 * x + 0.537355$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:00:34 Pacific Daylight Time

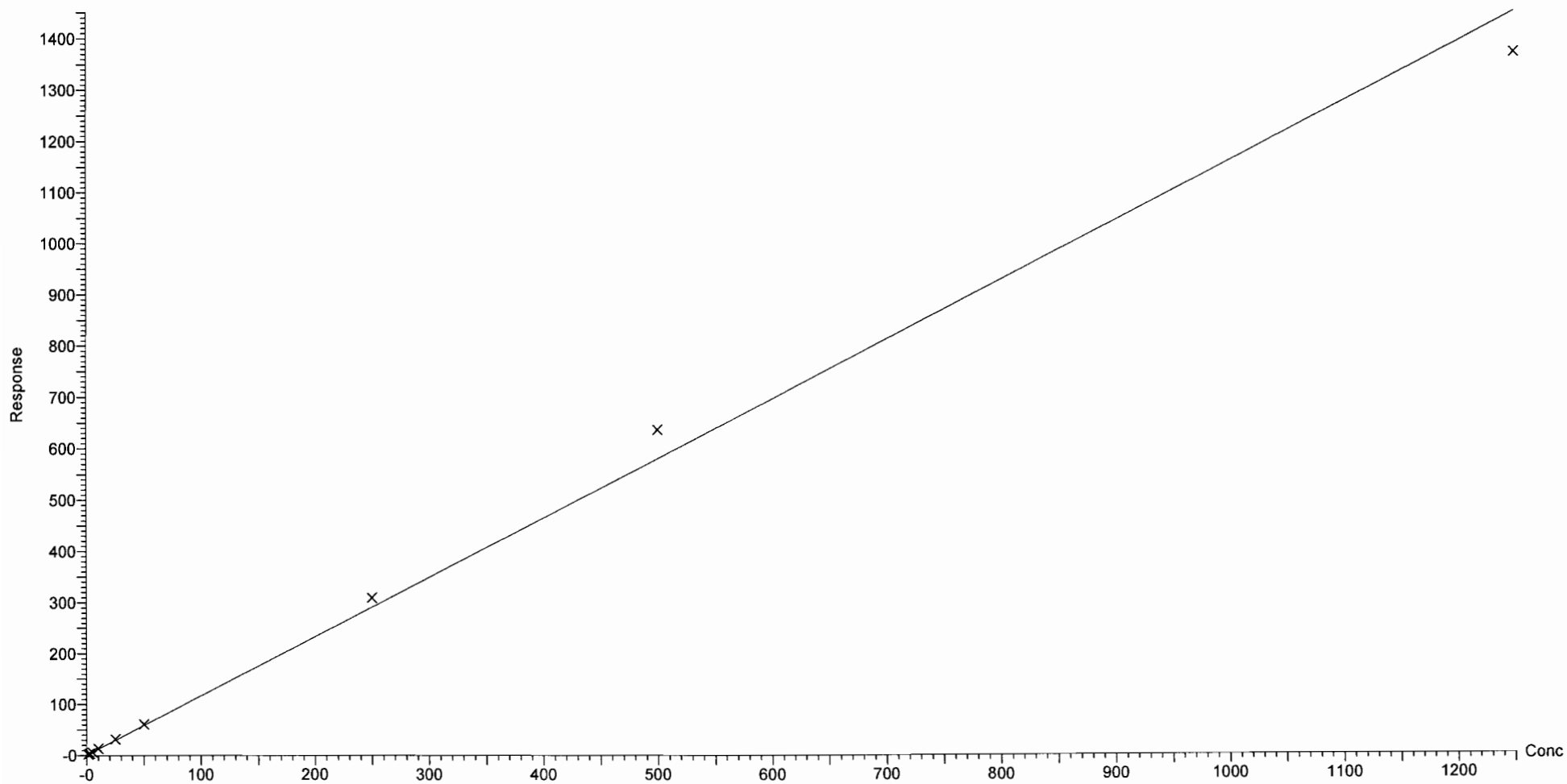
Compound name: N-EtFOSE

Correlation coefficient: $r = 0.997628$, $r^2 = 0.995263$

Calibration curve: $1.16004 * x + 0.57916$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

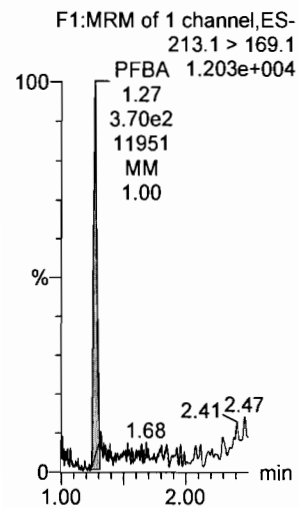
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:33:35

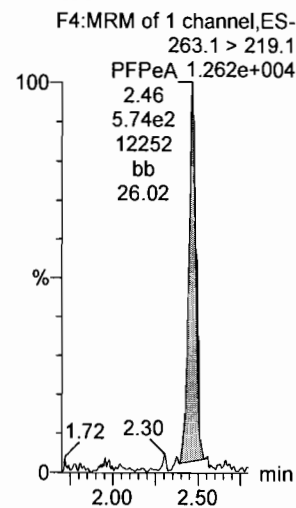
Calibration: 29 Sep 2017 09:20:39

Name: 170928M3_2, Date: 28-Sep-2017, Time: 17:54:38, ID: ST170928M3-1 PFC CS-2 1712809, Description: PFC CS-2 1712809

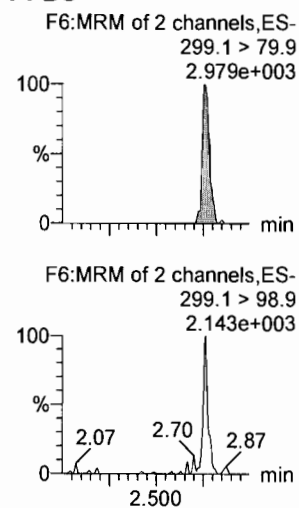
PFBA



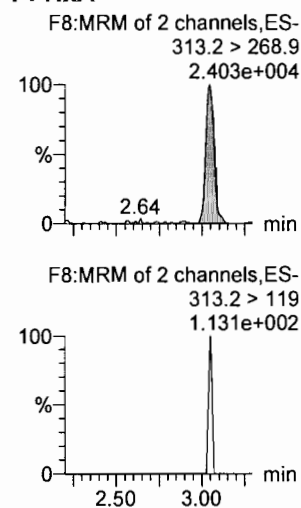
PFPeA



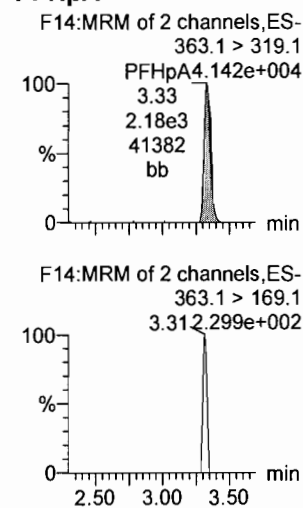
PFBS



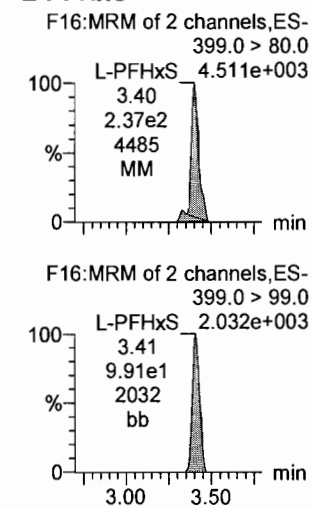
PFHxA



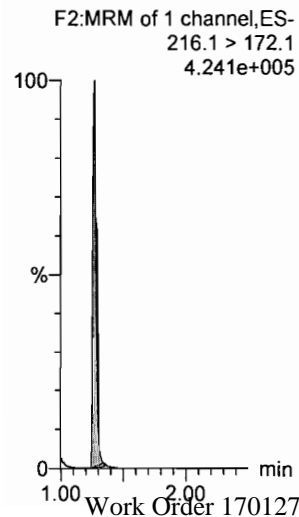
PFHpA



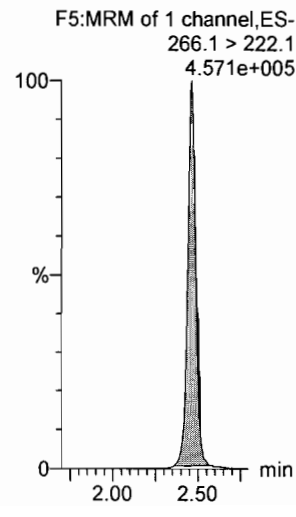
L-PFHxS



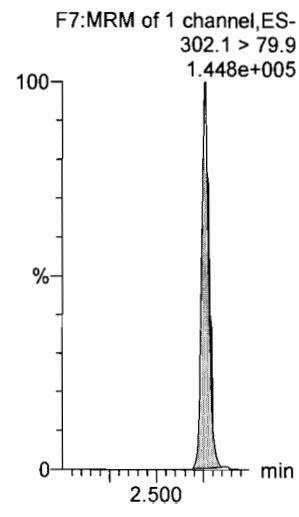
13C3-PFBA



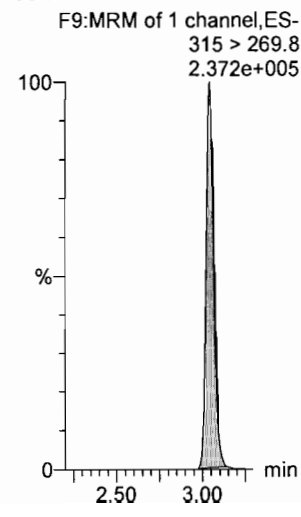
13C3-PFPeA



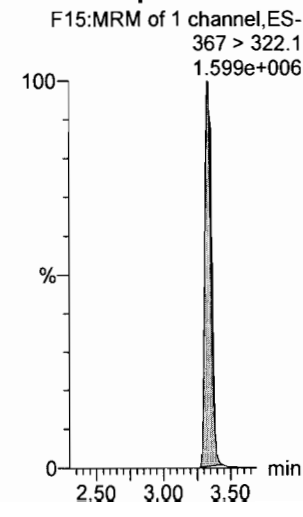
13C3-PFBS



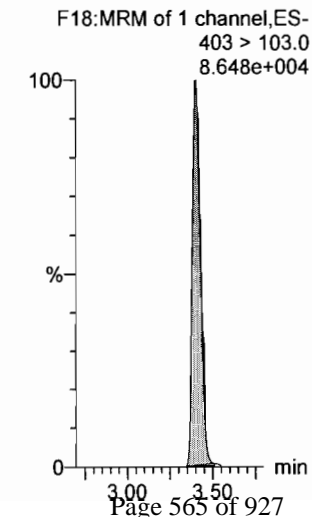
13C2-PFHxA



13C4-PFHpA



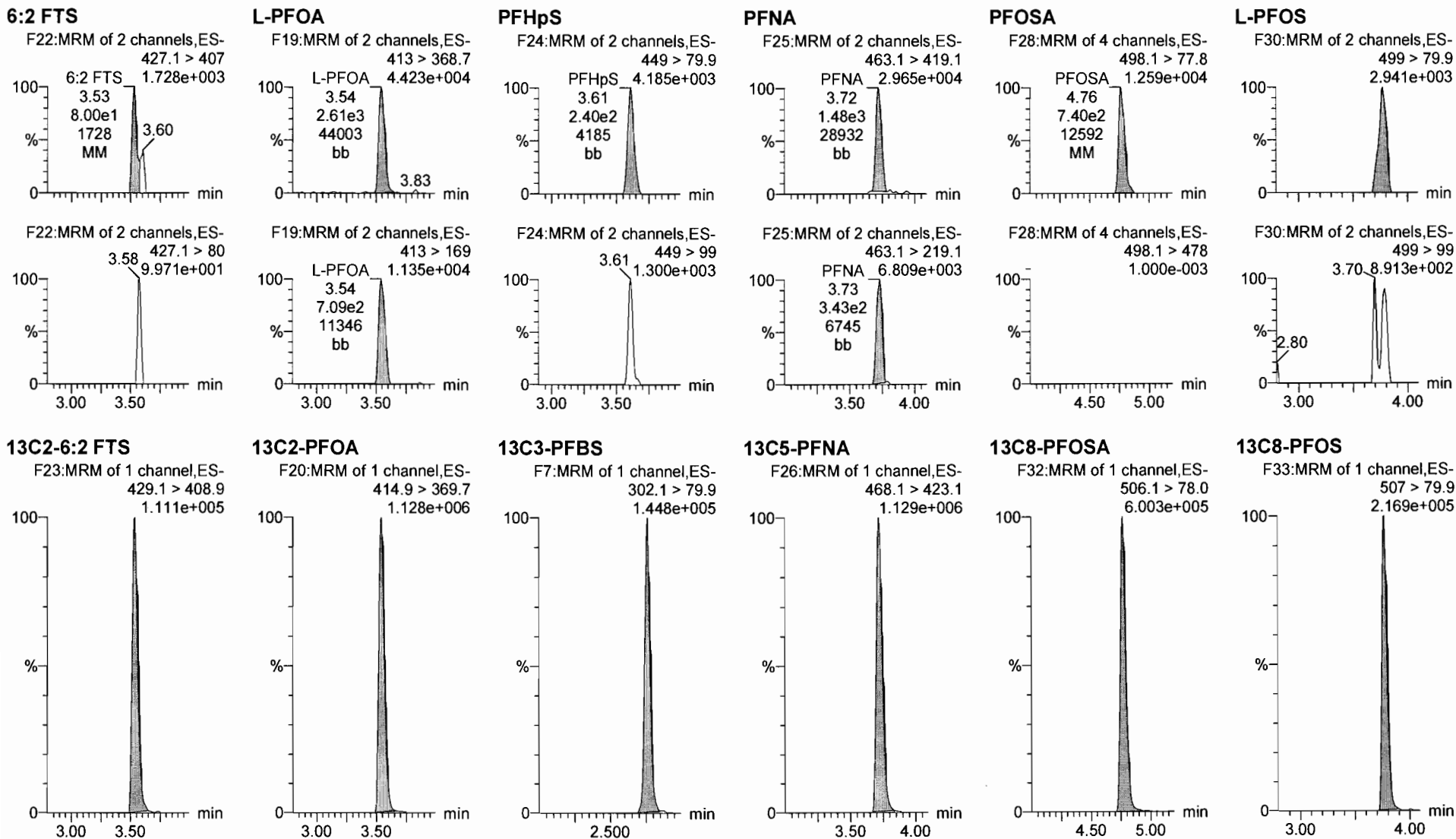
18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_2, Date: 28-Sep-2017, Time: 17:54:38, ID: ST170928M3-1 PFC CS-2 1712809, Description: PFC CS-2 1712809



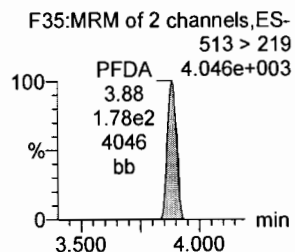
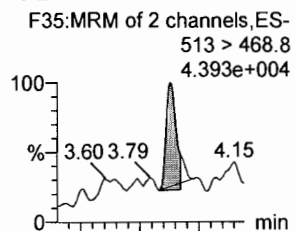
Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

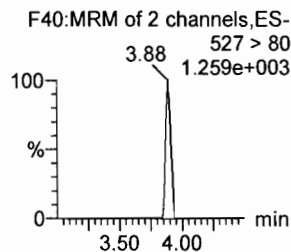
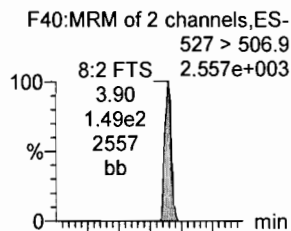
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_2, Date: 28-Sep-2017, Time: 17:54:38, ID: ST170928M3-1 PFC CS-2 1712809, Description: PFC CS-2 1712809

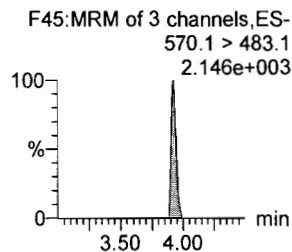
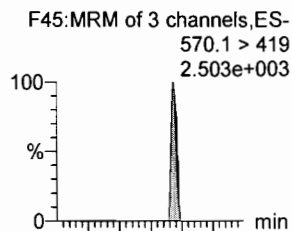
PFDA



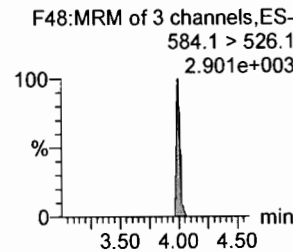
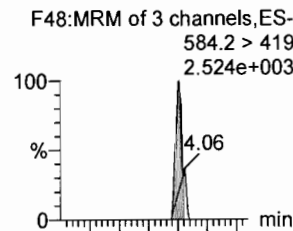
8:2 FTS



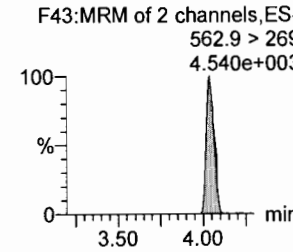
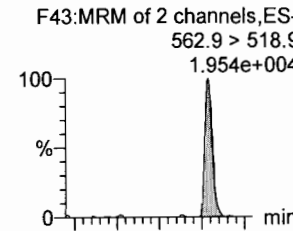
N-MeFOSAA



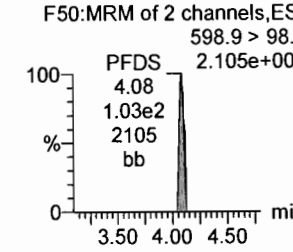
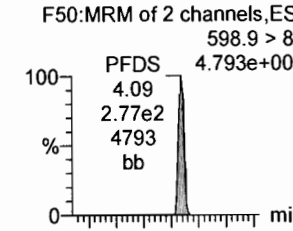
N-EtFOSAA



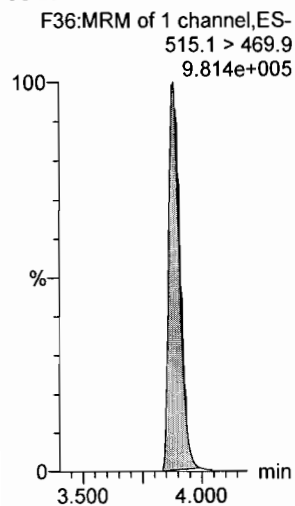
PFUnA



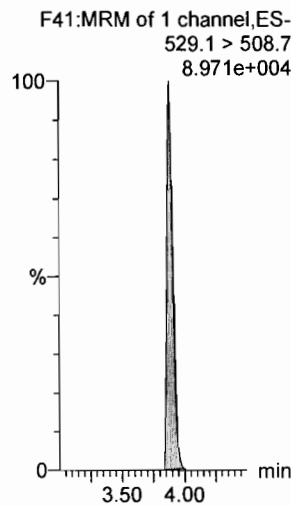
PFDS



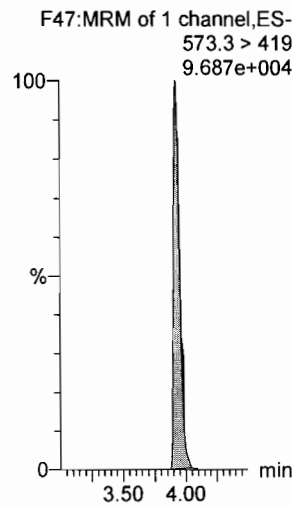
13C2-PFDA



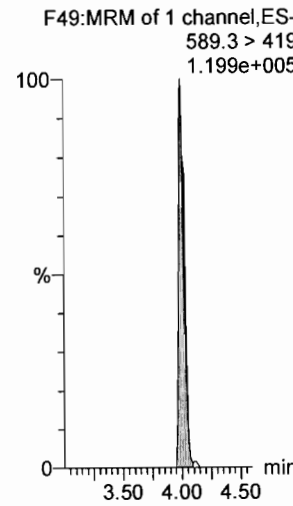
13C2-8:2 FTS



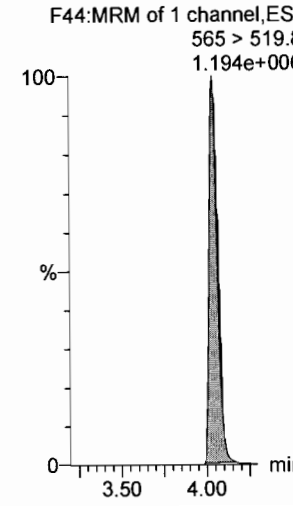
d3-N-MeFOSAA



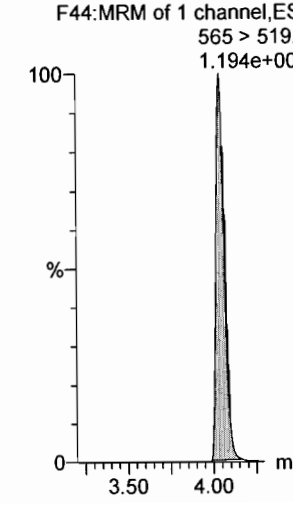
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

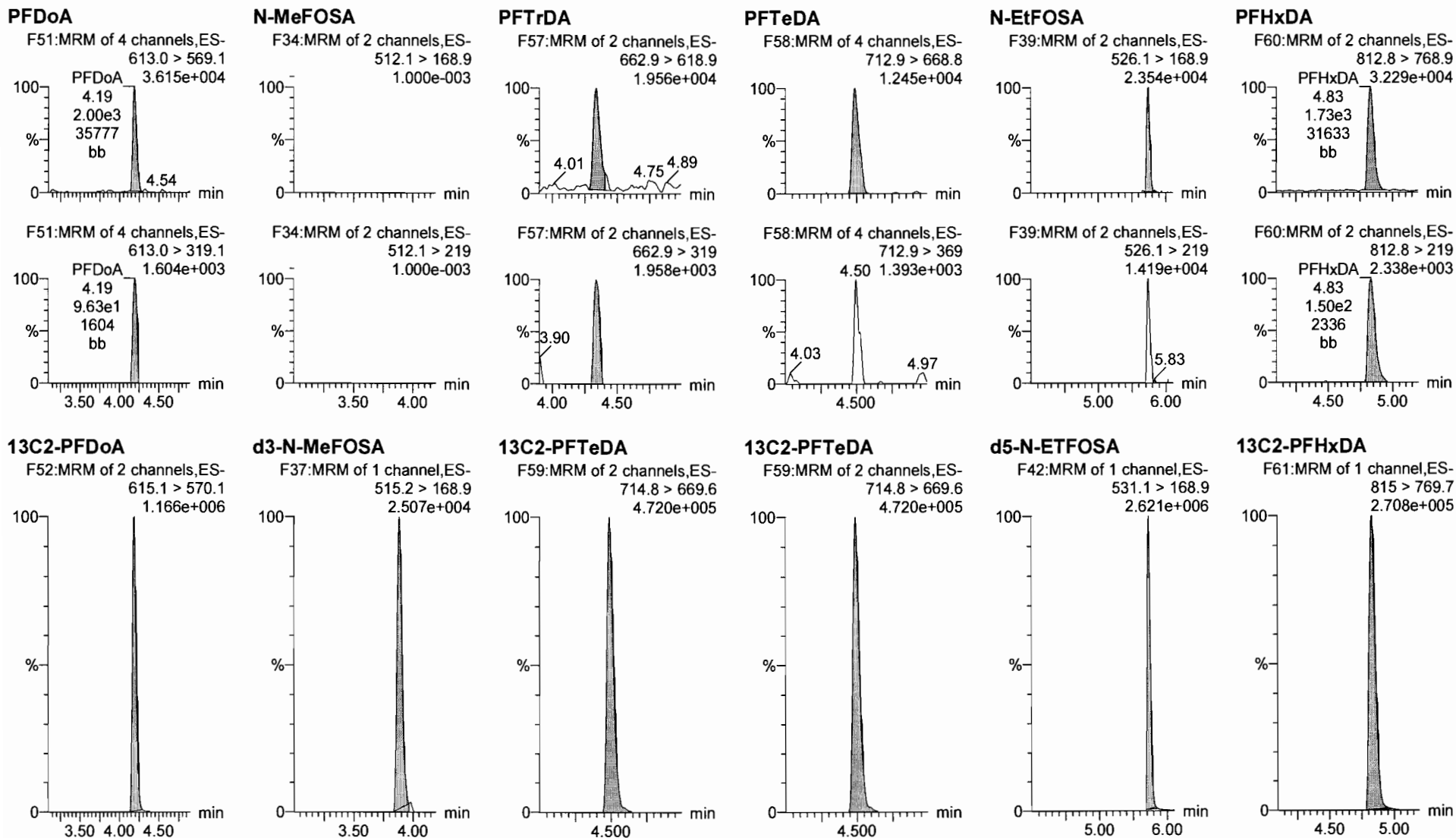


Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

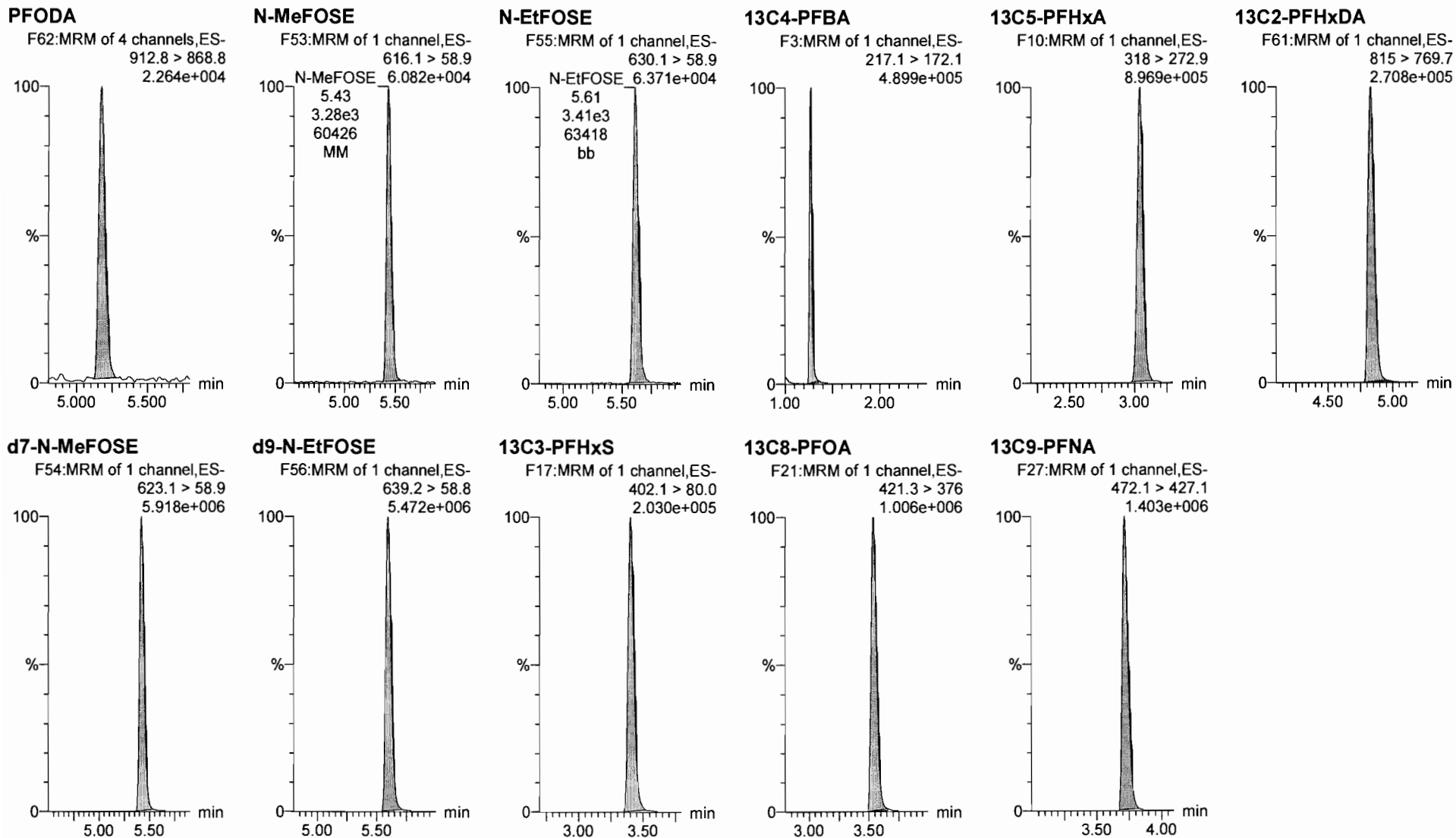
Name: 170928M3_2, Date: 28-Sep-2017, Time: 17:54:38, ID: ST170928M3-1 PFC CS-2 1712809, Description: PFC CS-2 1712809



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_2, Date: 28-Sep-2017, Time: 17:54:38, ID: ST170928M3-1 PFC CS-2 1712809, Description: PFC CS-2 1712809



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

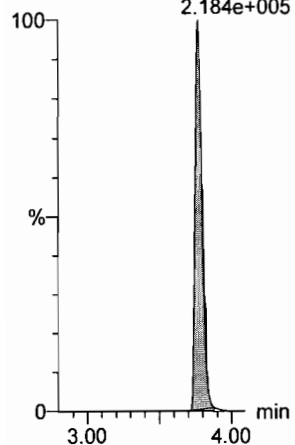
Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_2, Date: 28-Sep-2017, Time: 17:54:38, ID: ST170928M3-1 PFC CS-2 1712809, Description: PFC CS-2 1712809

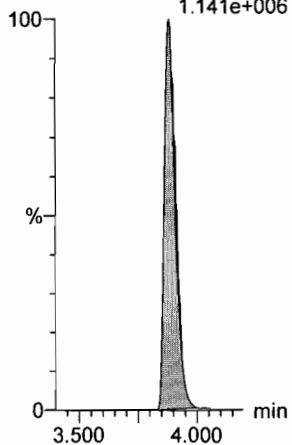
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
2.184e+005



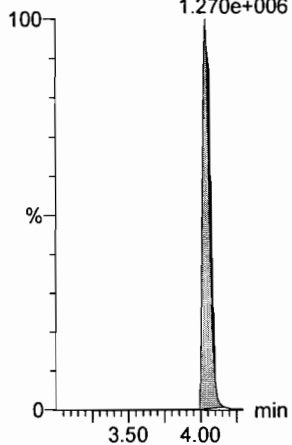
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.141e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.270e+006



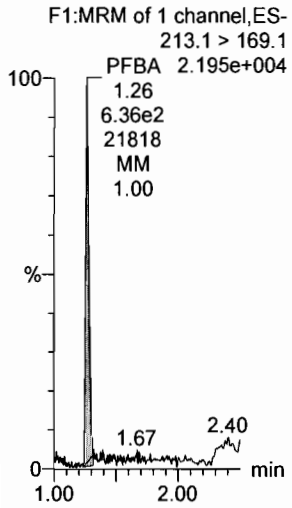
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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

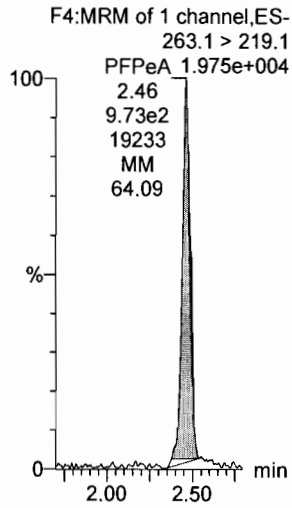
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_3, Date: 28-Sep-2017, Time: 18:05:24, ID: ST170928M3-2 PFC CS-1 1712810, Description: PFC CS-1 1712810

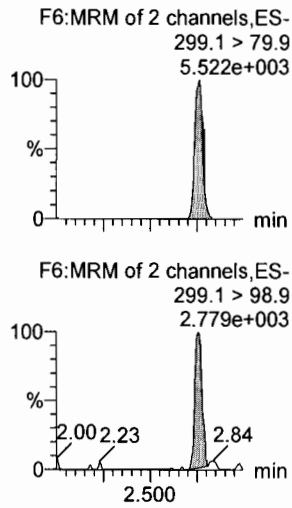
PFBA



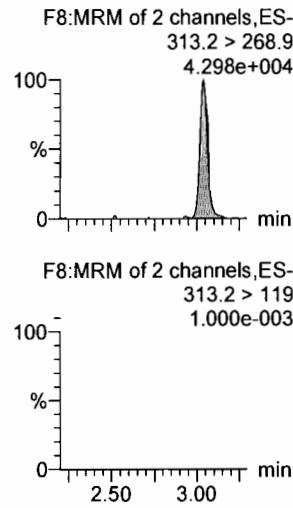
PFPeA



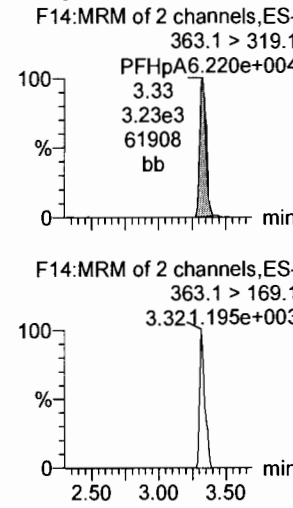
PFBS



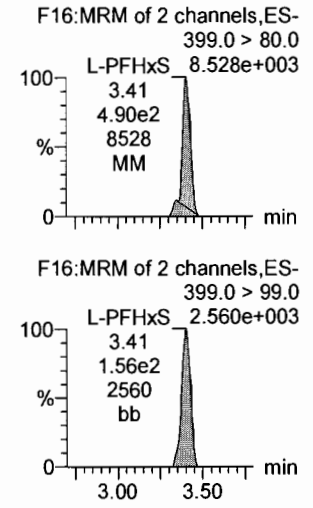
PFHxA



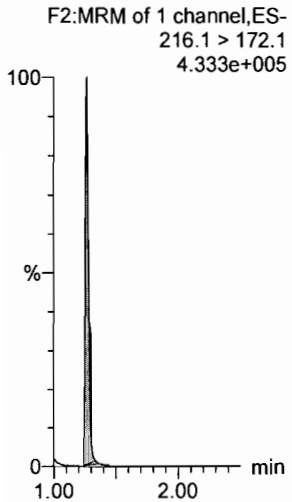
PFHpA



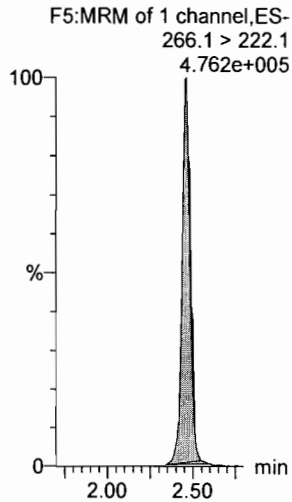
L-PFHxS



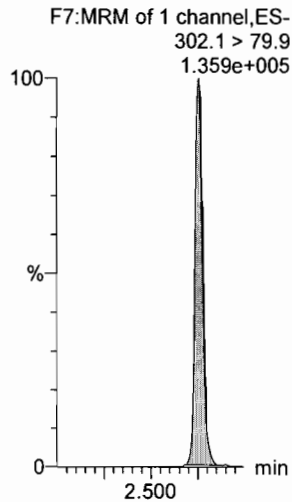
13C3-PFBA



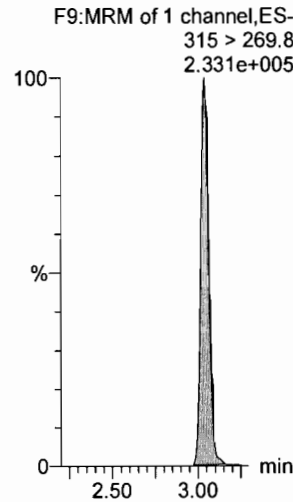
13C3-PFPeA



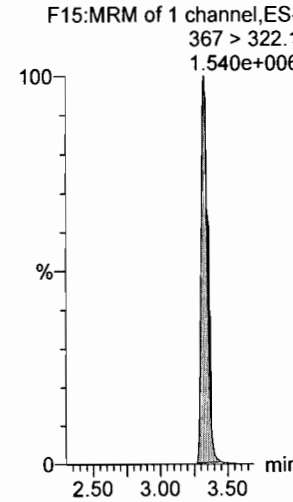
13C3-PFBS



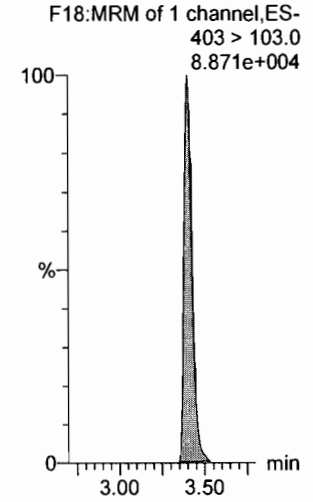
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

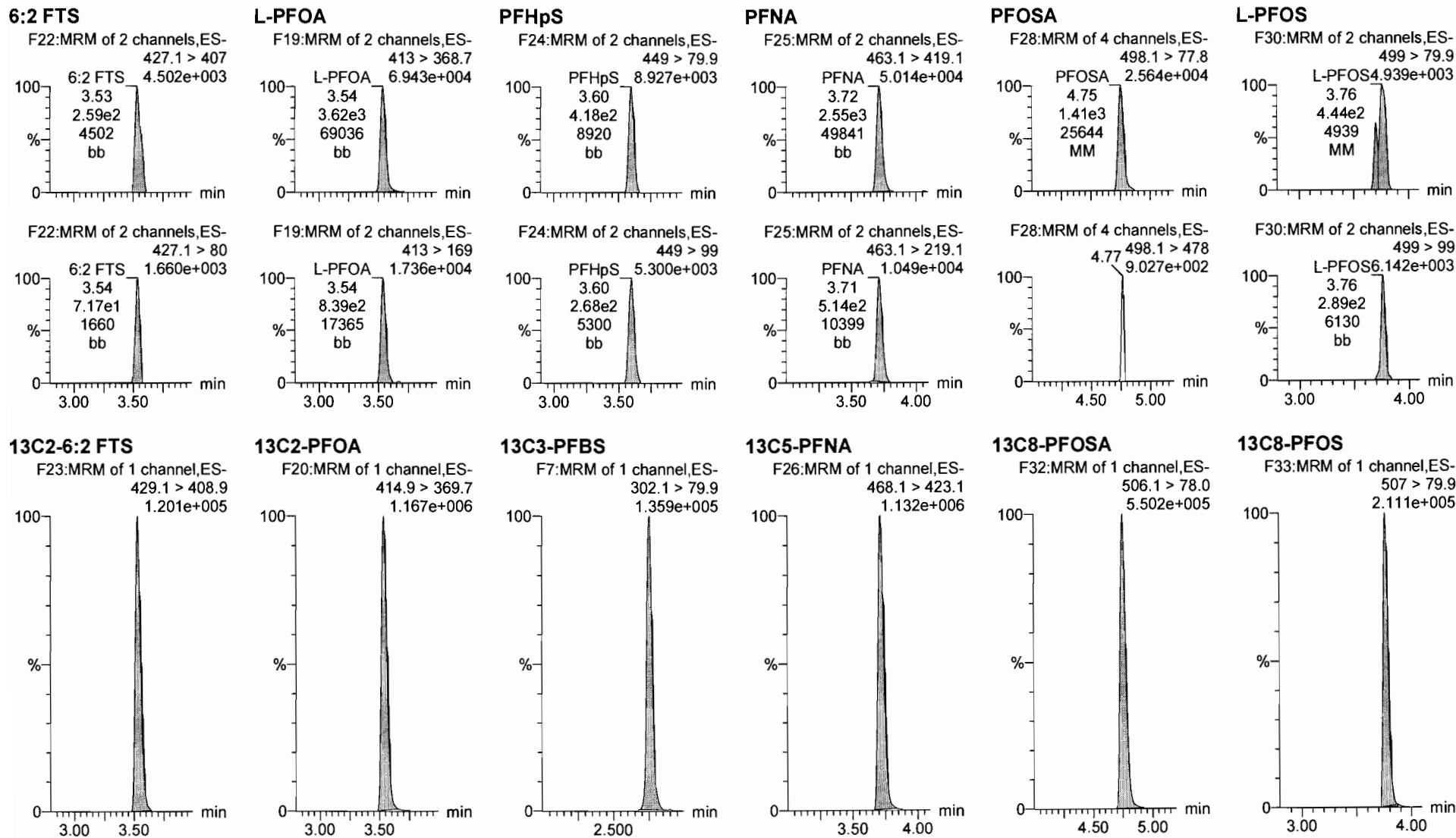


Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_3, Date: 28-Sep-2017, Time: 18:05:24, ID: ST170928M3-2 PFC CS-1 1712810, Description: PFC CS-1 1712810



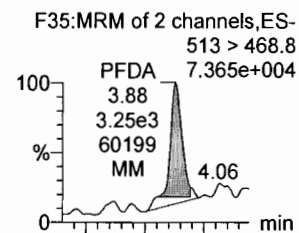
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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

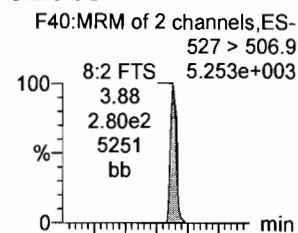
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_3, Date: 28-Sep-2017, Time: 18:05:24, ID: ST170928M3-2 PFC CS-1 1712810, Description: PFC CS-1 1712810

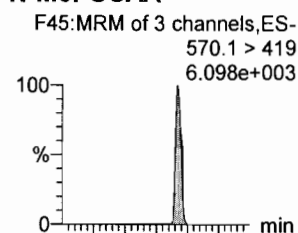
PFDA



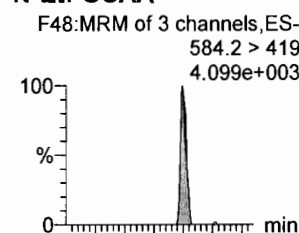
8:2 FTS



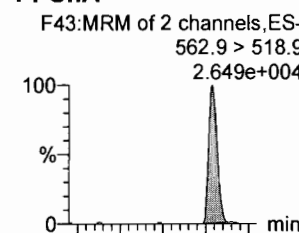
N-MeFOSAA



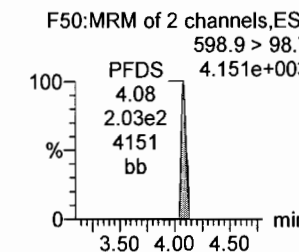
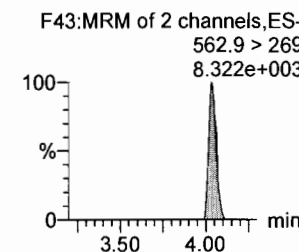
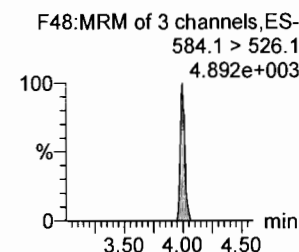
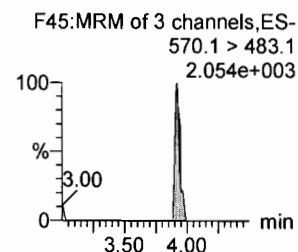
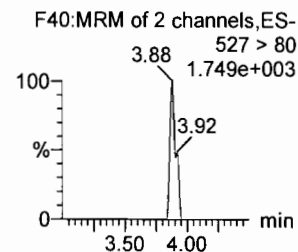
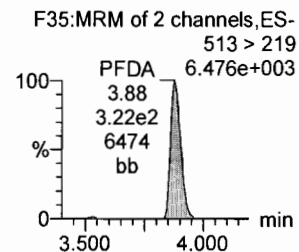
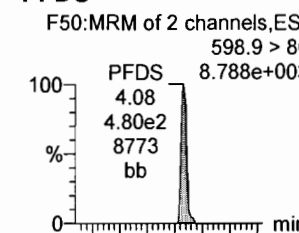
N-EtFOSAA



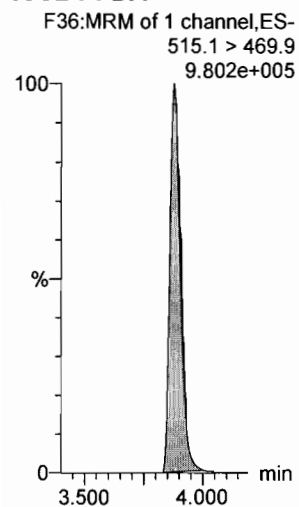
PFUnA



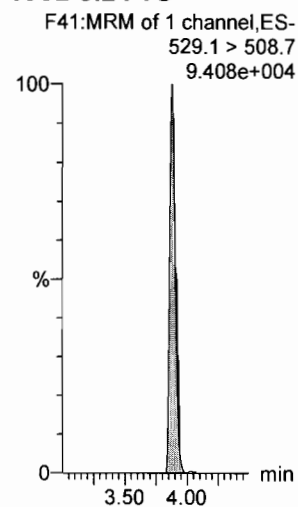
PFDS



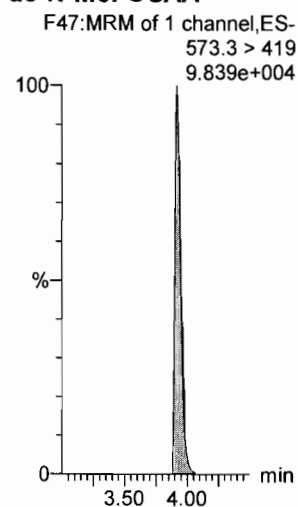
13C2-PFDA



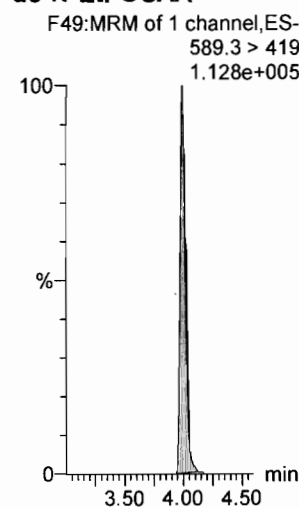
13C2-8:2 FTS



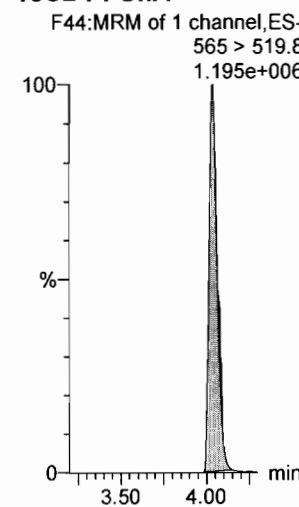
d3-N-MeFOSAA



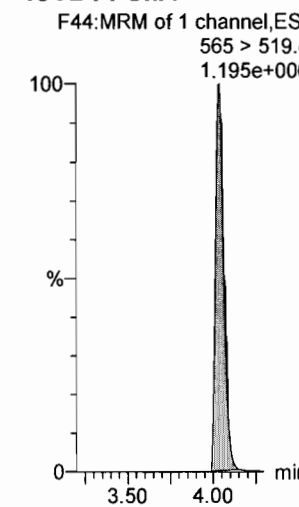
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

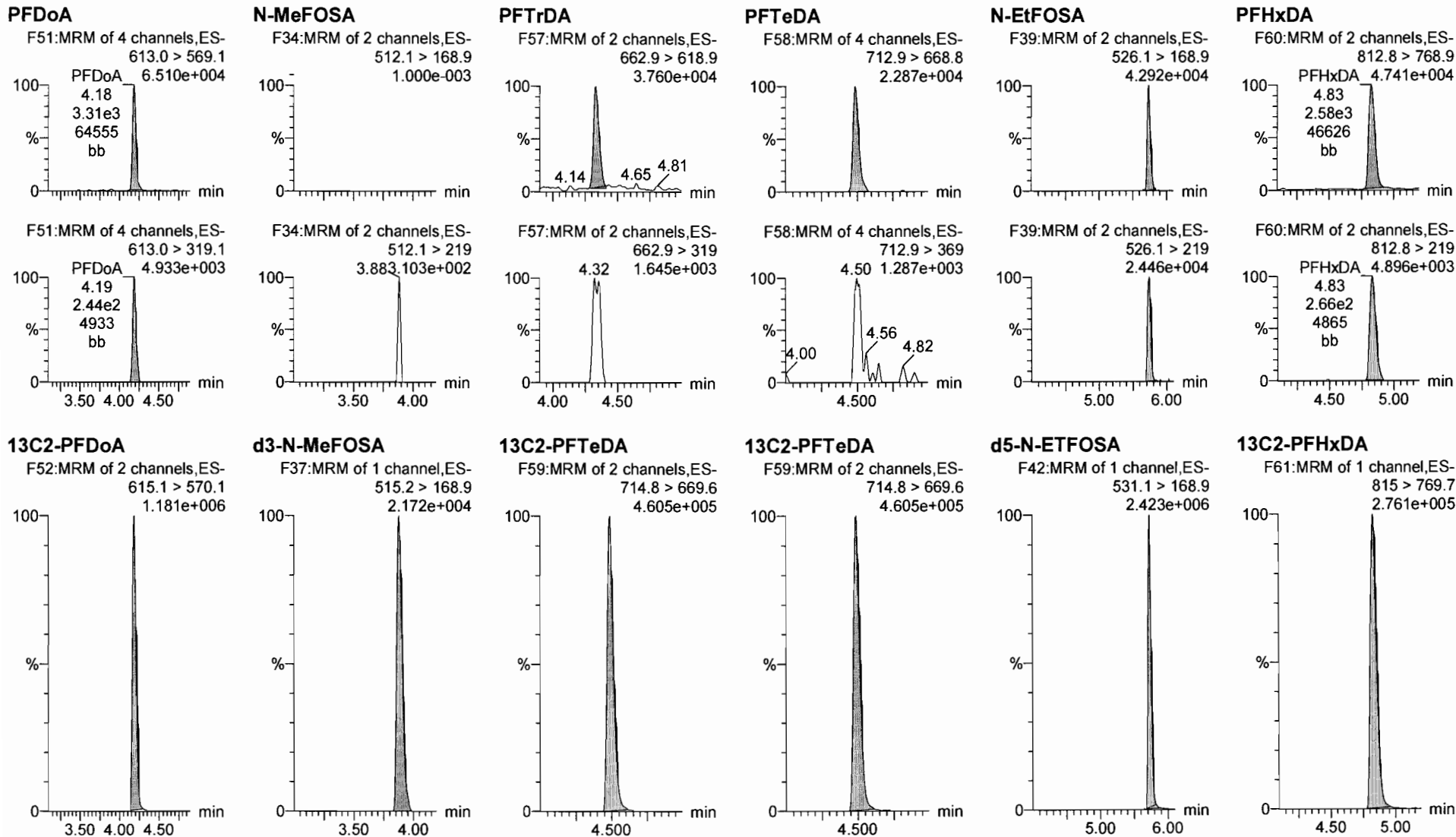


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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_3, Date: 28-Sep-2017, Time: 18:05:24, ID: ST170928M3-2 PFC CS-1 1712810, Description: PFC CS-1 1712810



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

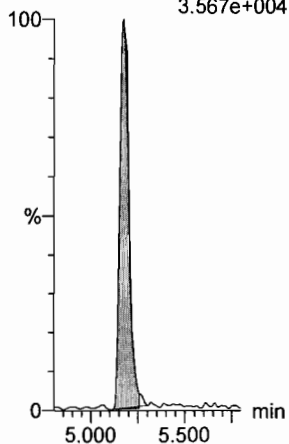
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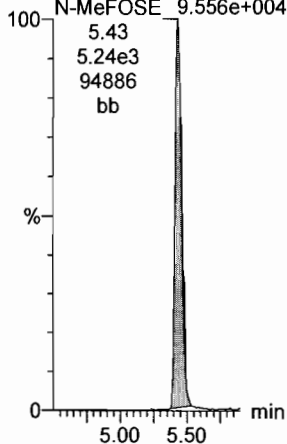
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
3.567e+004



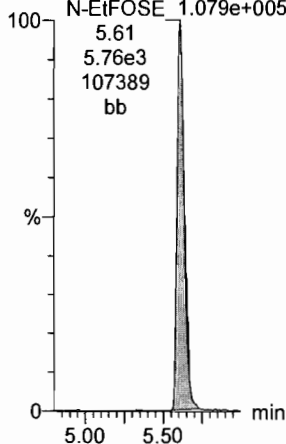
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
9.556e+004



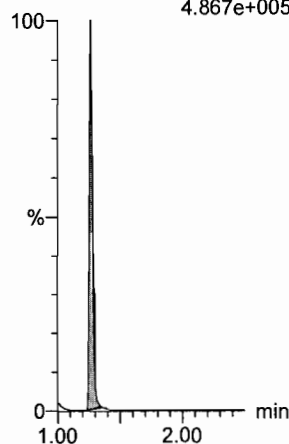
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
1.079e+005



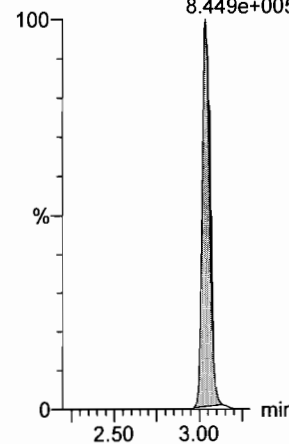
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1
4.867e+005



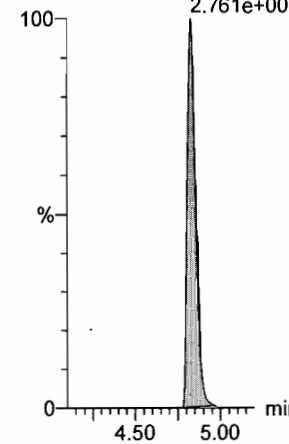
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.449e+005



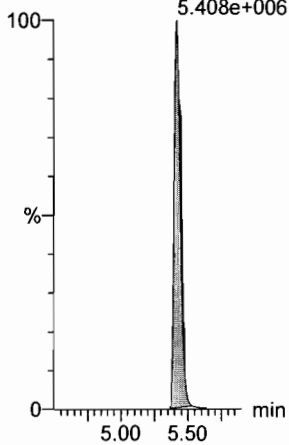
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
2.761e+005



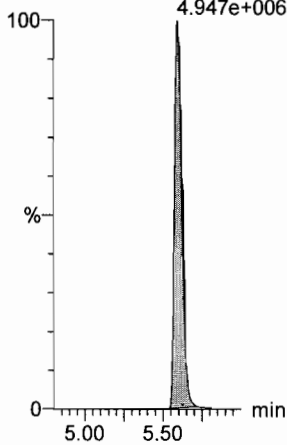
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.408e+006



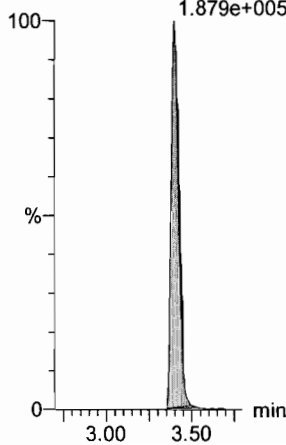
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
4.947e+006



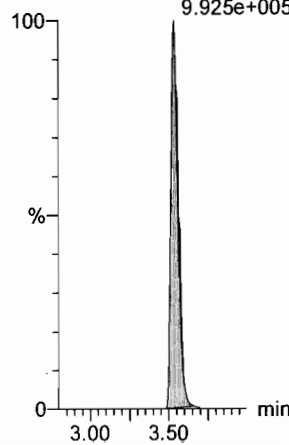
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
1.879e+005



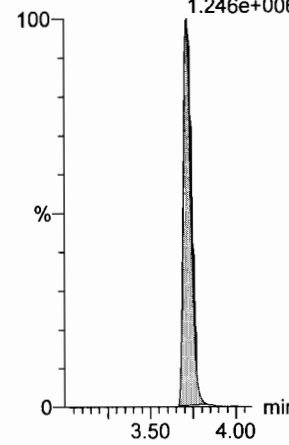
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
9.925e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
1.246e+006



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

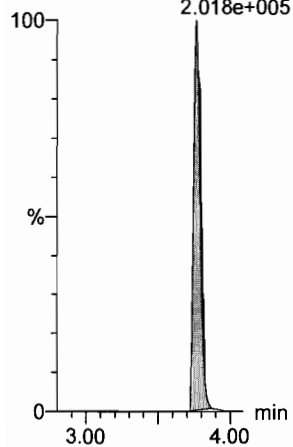
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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_3, Date: 28-Sep-2017, Time: 18:05:24, ID: ST170928M3-2 PFC CS-1 1712810, Description: PFC CS-1 1712810

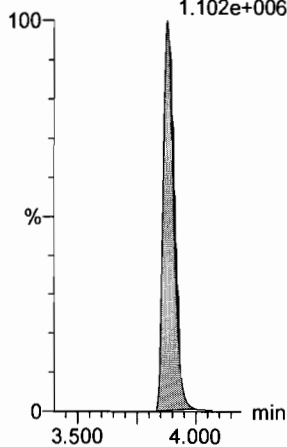
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
2.018e+005



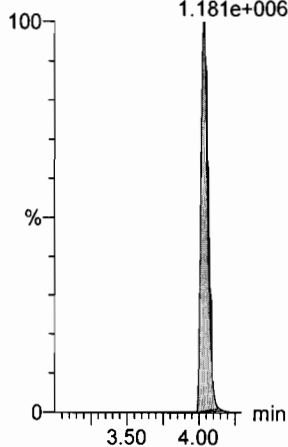
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.102e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.181e+006



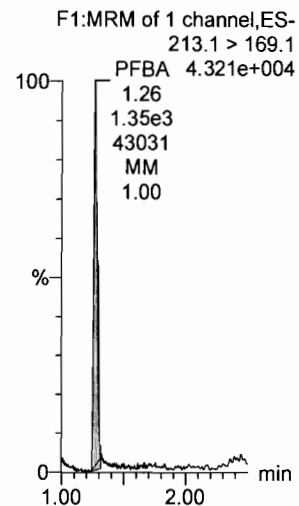
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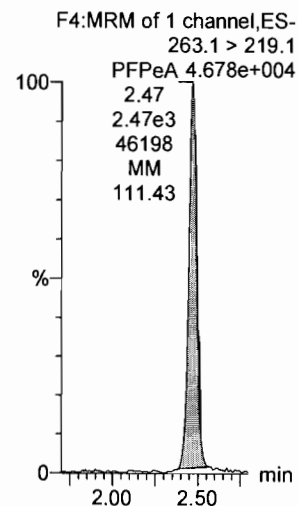
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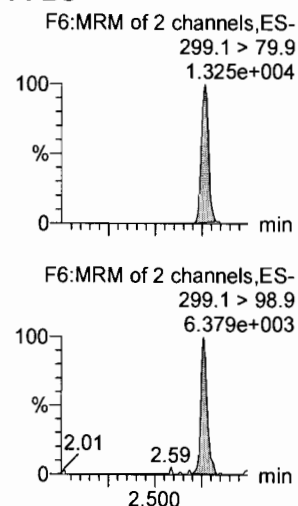
PFBA



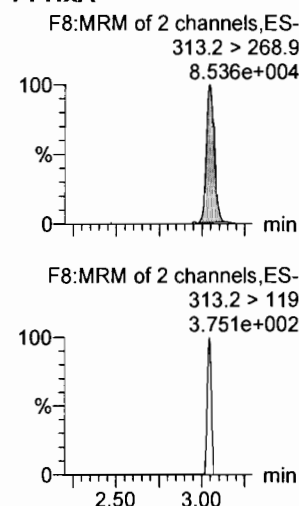
PFPeA



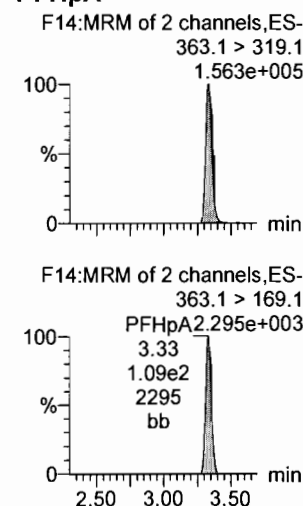
PFBS



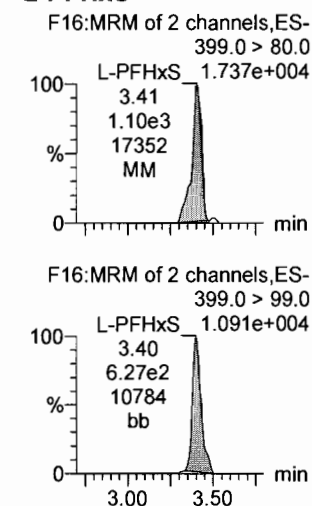
PFHxA



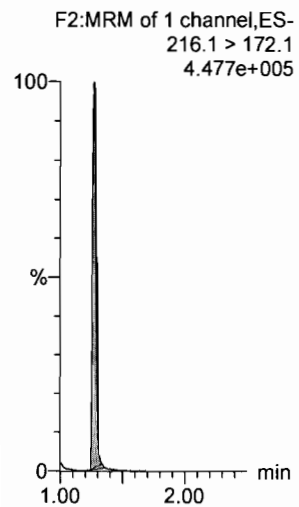
PFHpA



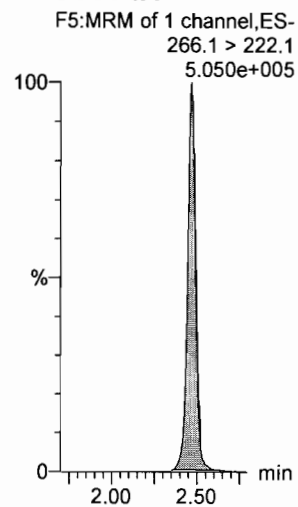
L-PFHxS



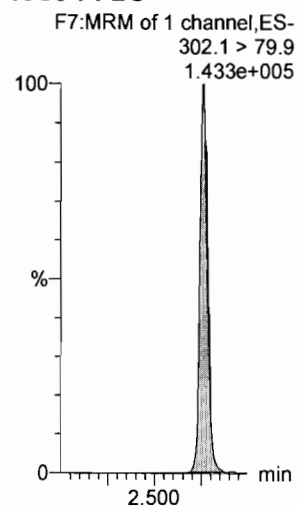
13C3-PFBA



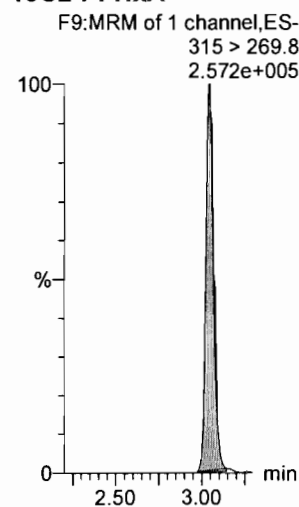
13C3-PFPeA



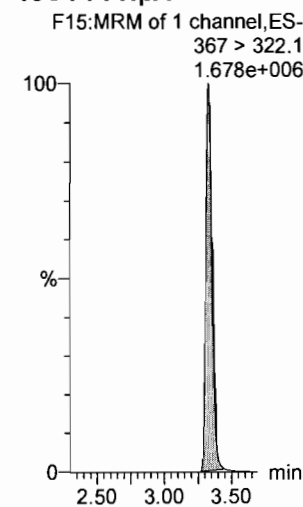
13C3-PFBS



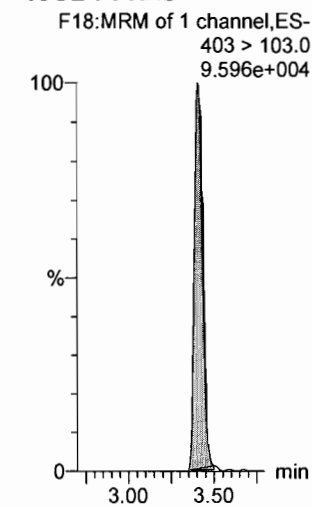
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

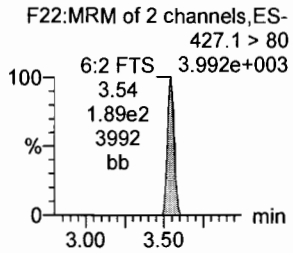
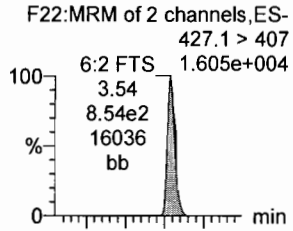


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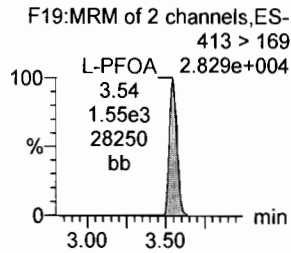
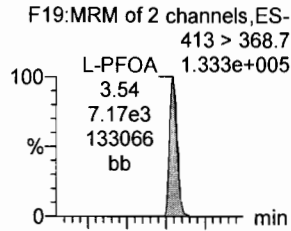
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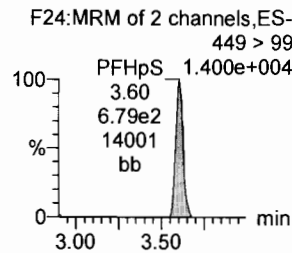
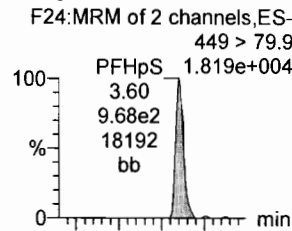
6:2 FTS



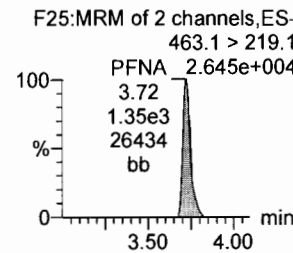
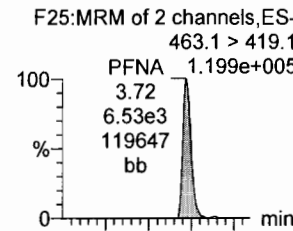
L-PFOA



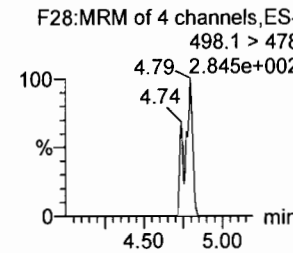
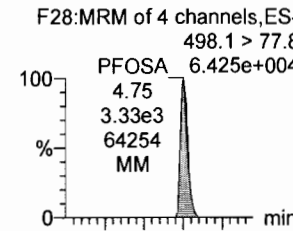
PFHpS



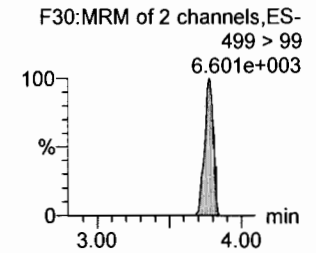
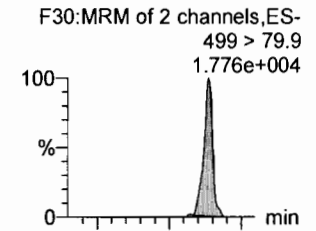
PFNA



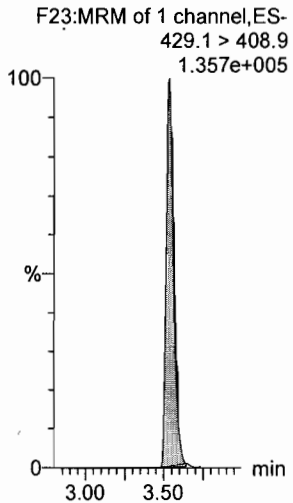
PFOSA



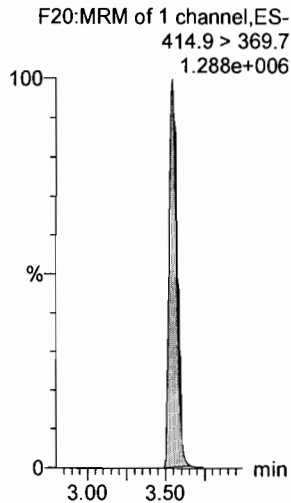
L-PFOS



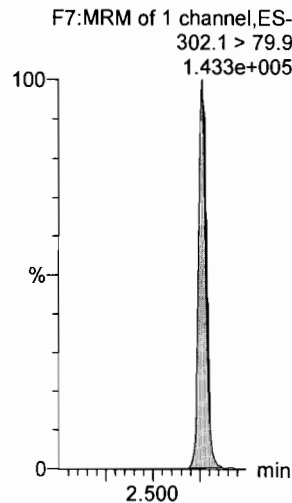
13C2-6:2 FTS



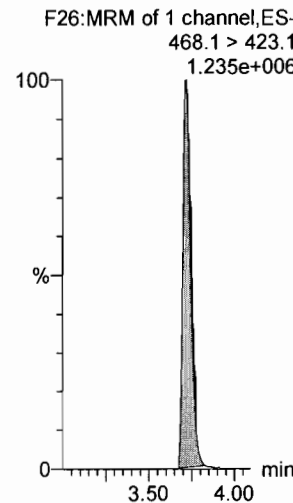
13C2-PFOA



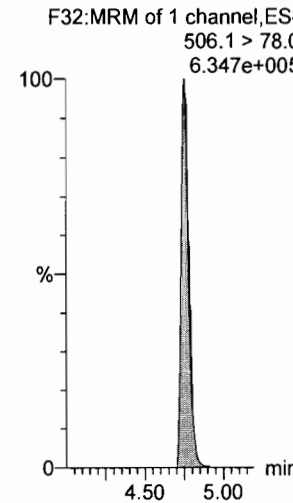
13C3-PFBS



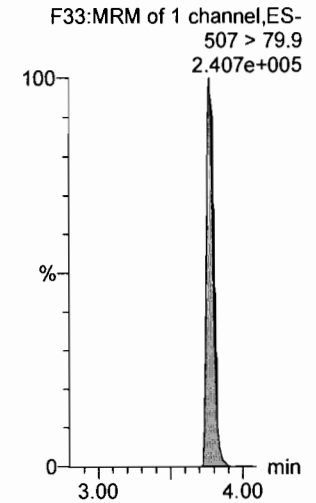
13C5-PFNA



13C8-PFOA



13C8-PFOS



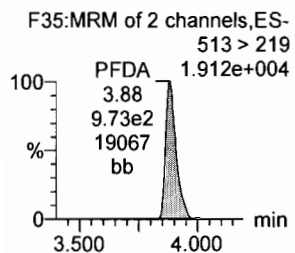
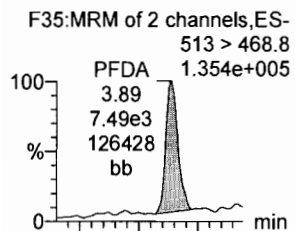
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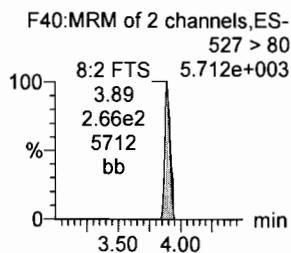
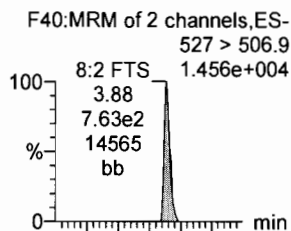
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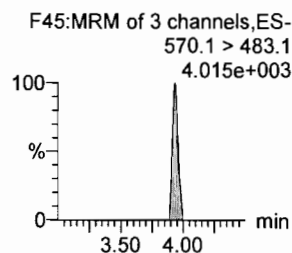
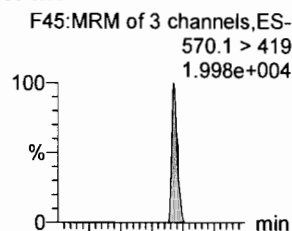
PFDA



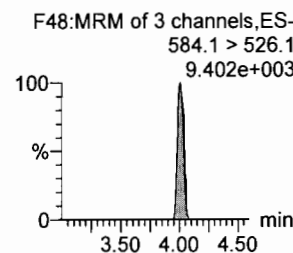
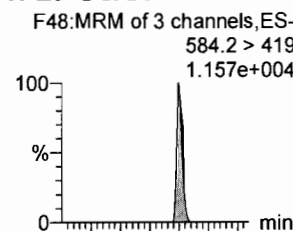
8:2 FTS



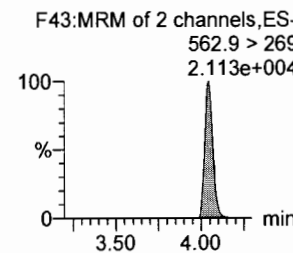
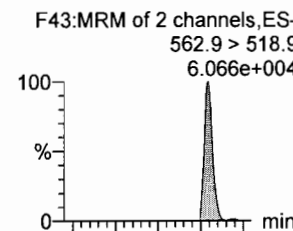
N-MeFOSAA



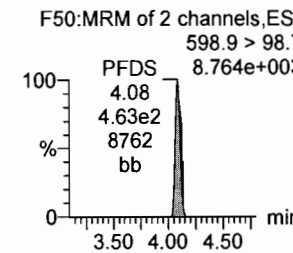
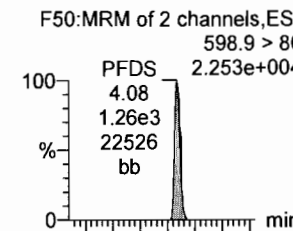
N-EtFOSAA



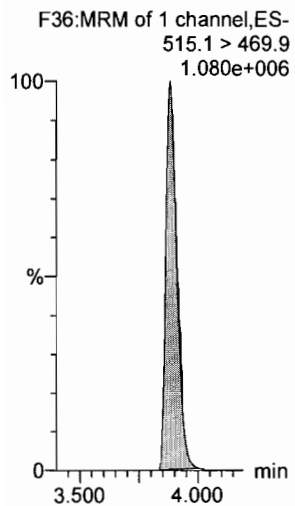
PFUnA



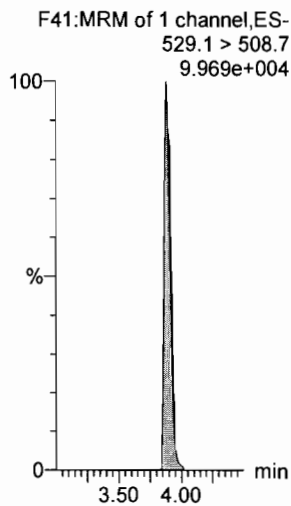
PFDS



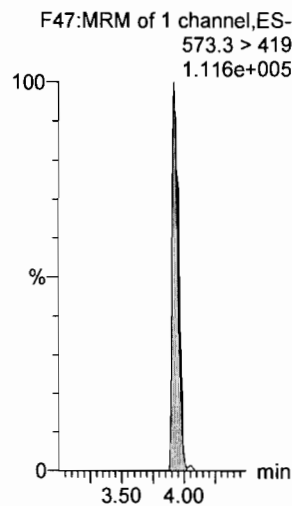
13C2-PFDA



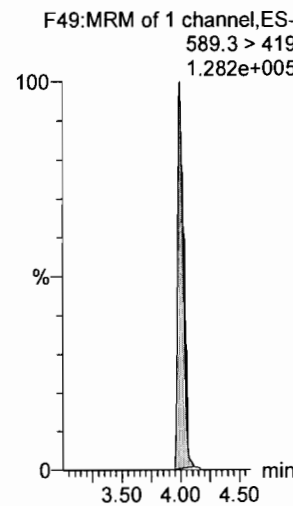
13C2-8:2 FTS



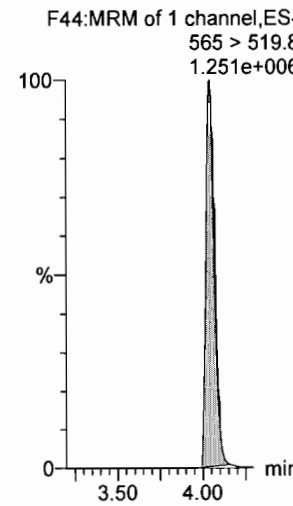
d3-N-MeFOSAA



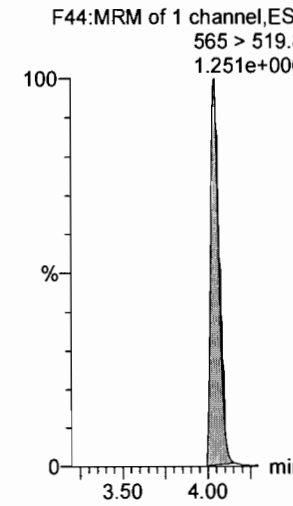
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

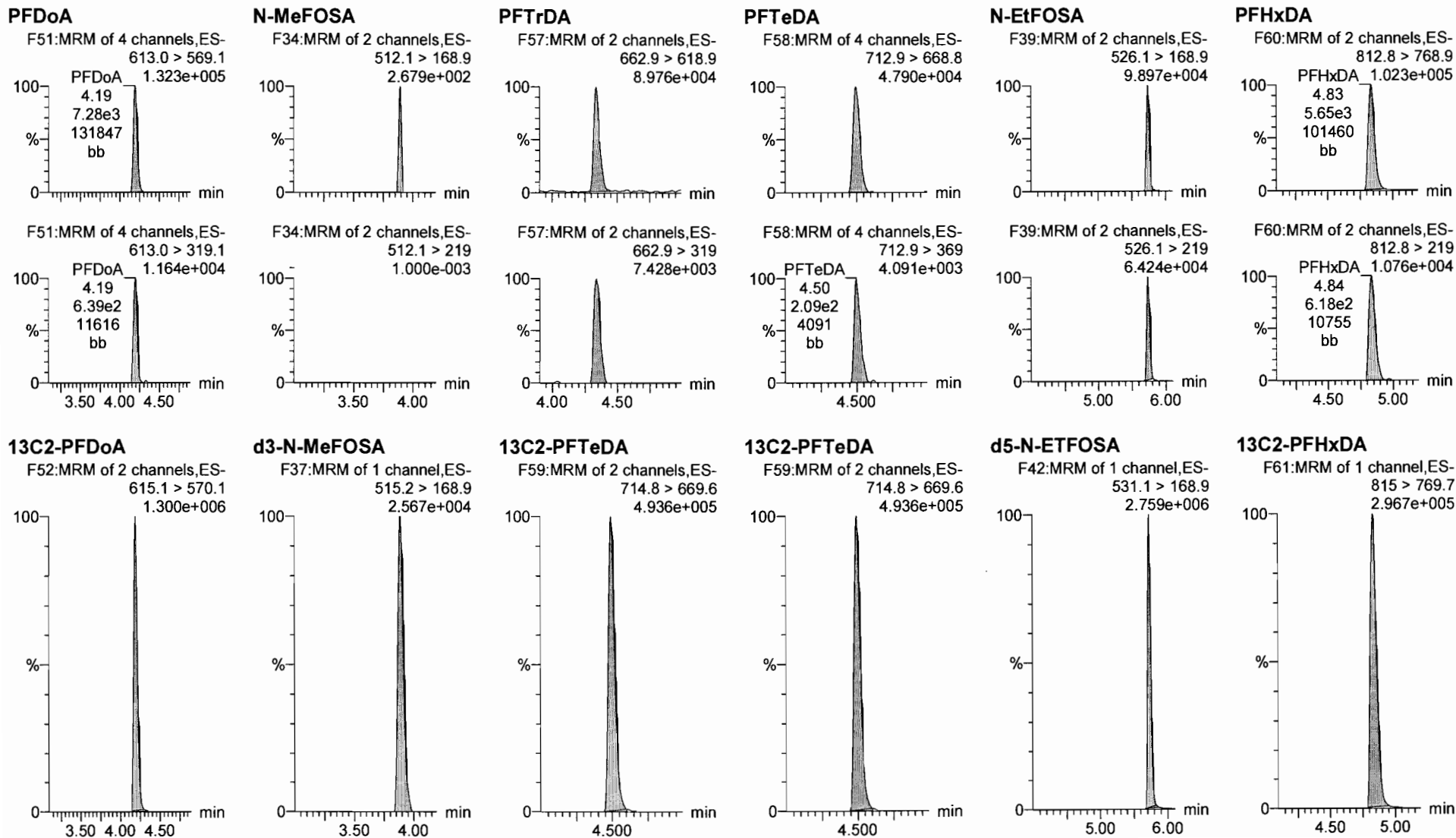


Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_4, Date: 28-Sep-2017, Time: 18:16:11, ID: ST170928M3-3 PFC CS0 17I2811, Description: PFC CS0 17I2811



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

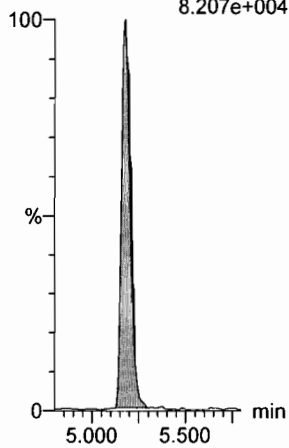
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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

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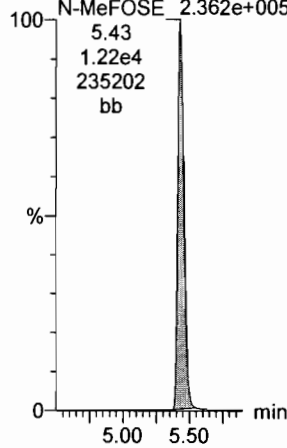
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
8.207e+004



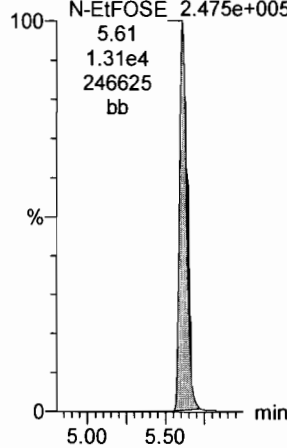
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
2.362e+005



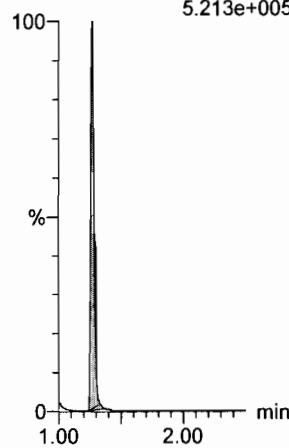
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
2.475e+005



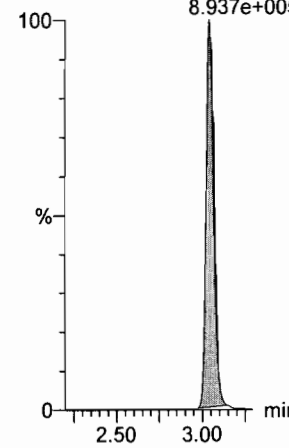
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1
5.213e+005



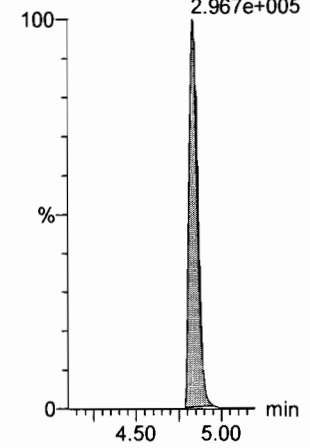
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.937e+005



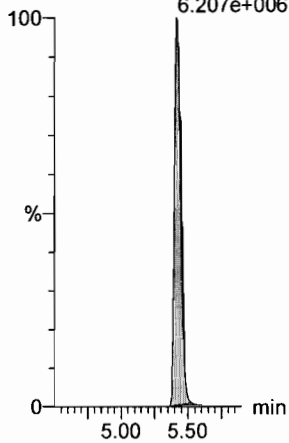
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
2.967e+005



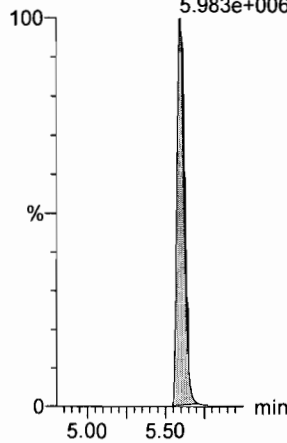
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
6.207e+006



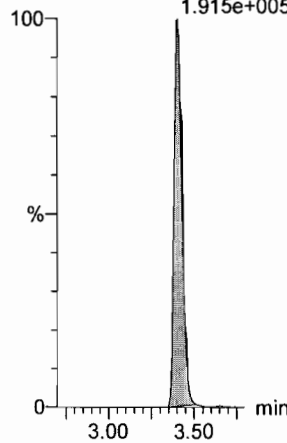
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.983e+006



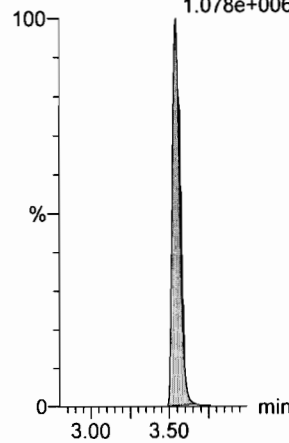
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
1.915e+005



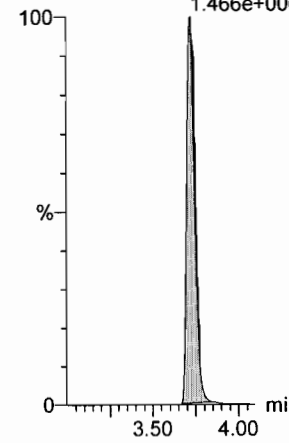
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.078e+006



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
1.466e+006



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

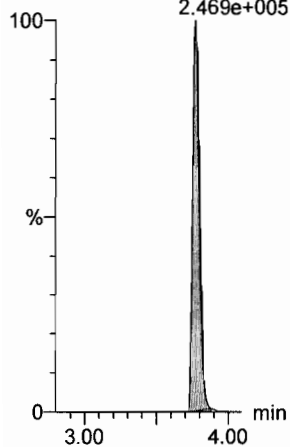
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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_4, Date: 28-Sep-2017, Time: 18:16:11, ID: ST170928M3-3 PFC CS0 17I2811, Description: PFC CS0 17I2811

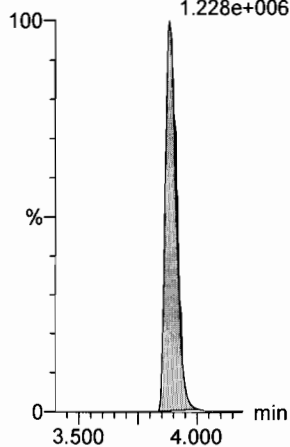
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
2.469e+005



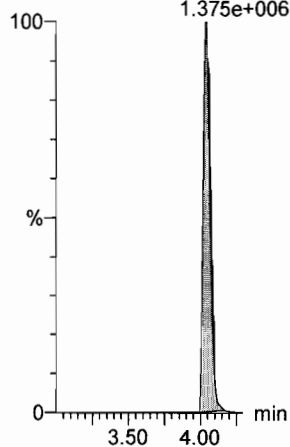
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.228e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.375e+006



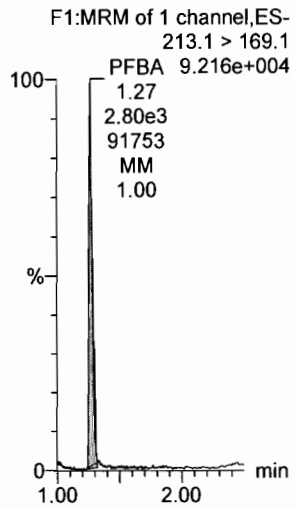
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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

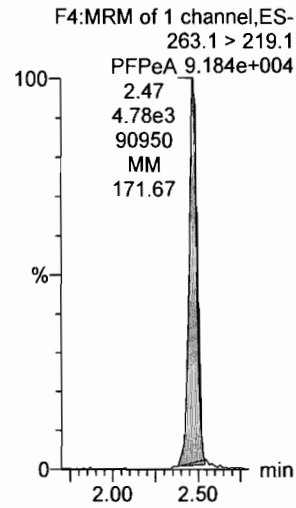
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_5, Date: 28-Sep-2017, Time: 18:26:58, ID: ST170928M3-4 PFC CS1 1712812, Description: PFC CS1 1712812

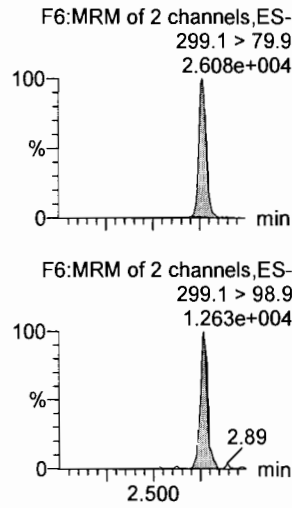
PFBA



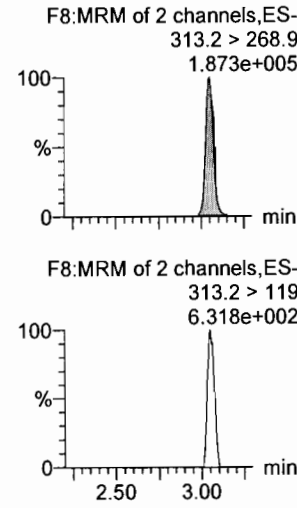
PFPeA



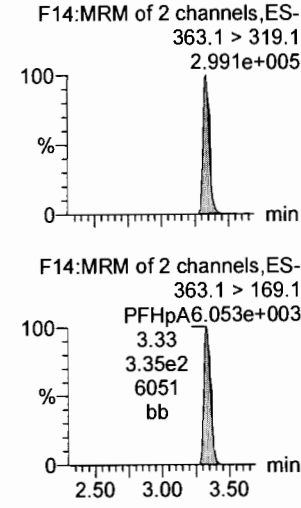
PFBS



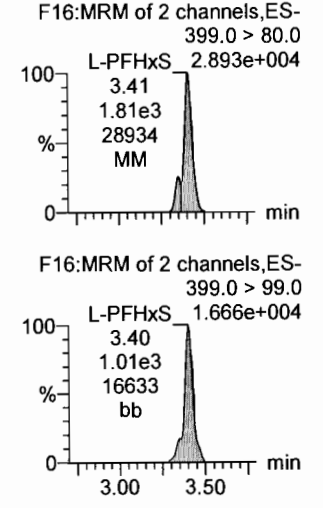
PFHxA



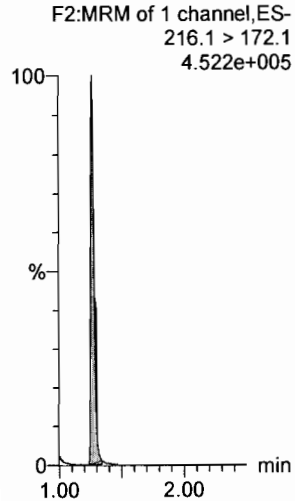
PFHpA



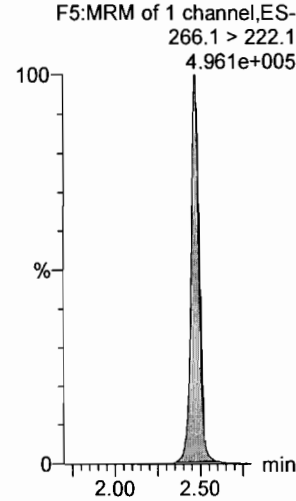
L-PFHxS



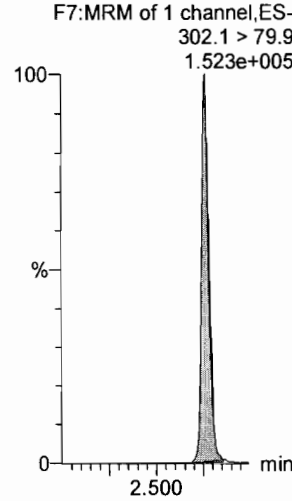
13C3-PFBA



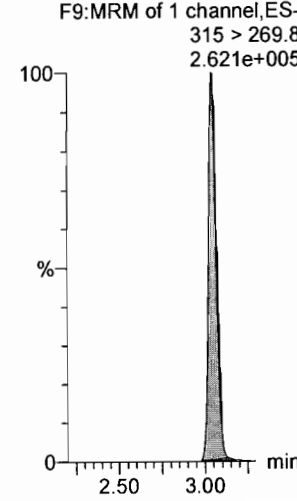
13C3-PFPeA



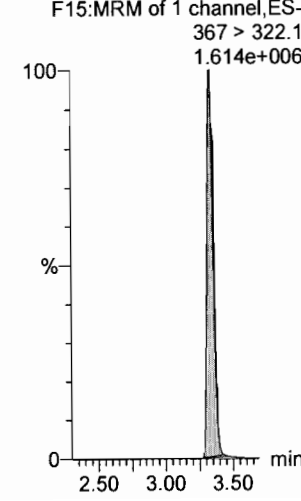
13C3-PFBS



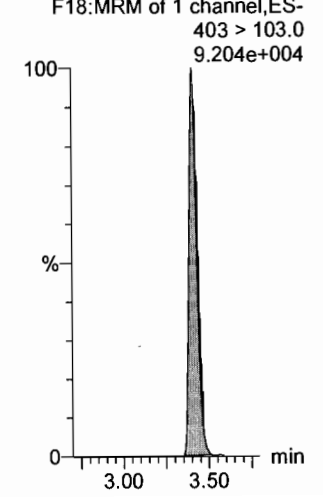
13C2-PFHxA



13C4-PFHpA



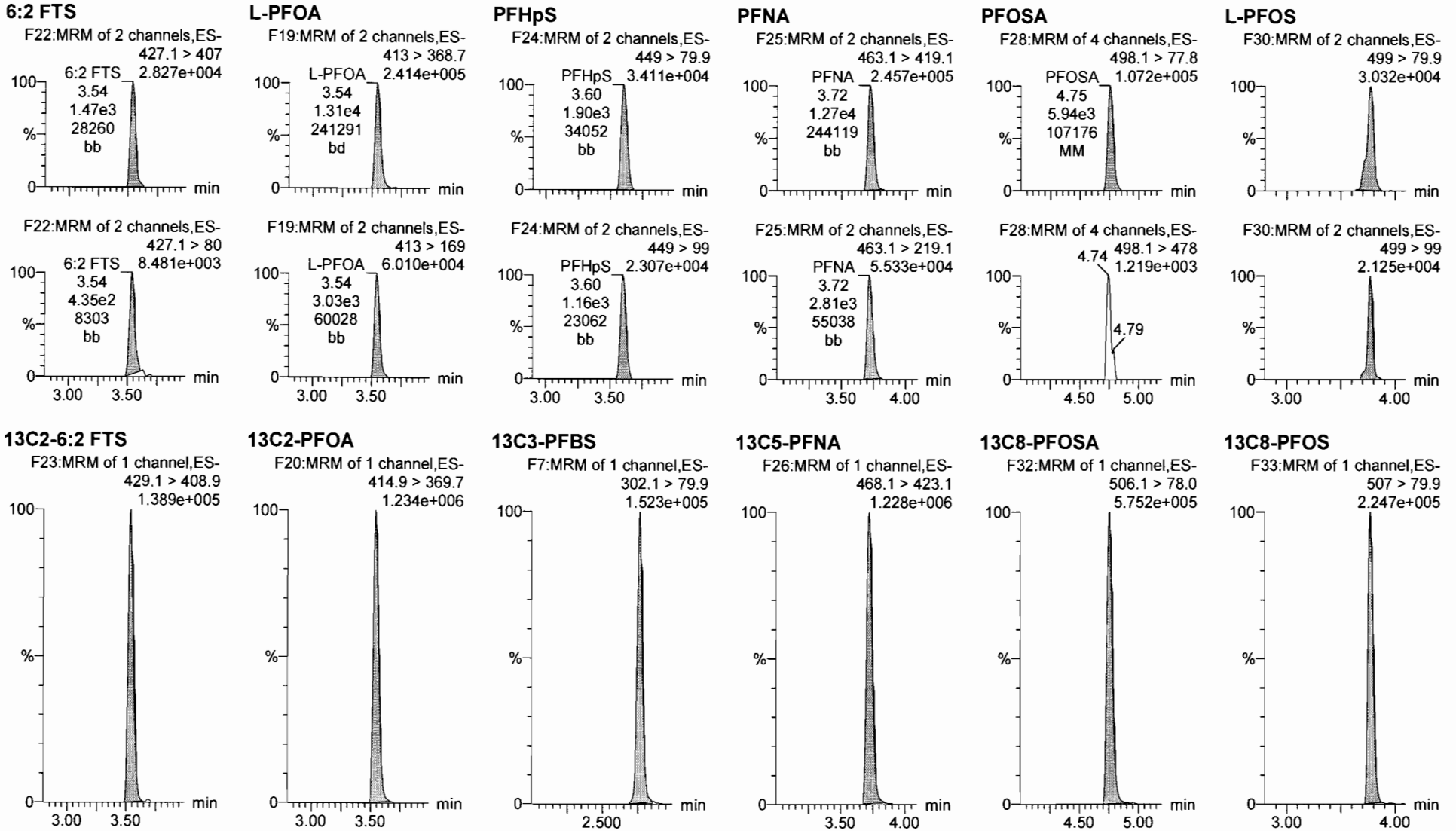
18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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Name: 170928M3_5, Date: 28-Sep-2017, Time: 18:26:58, ID: ST170928M3-4 PFC CS1 1712812, Description: PFC CS1 1712812



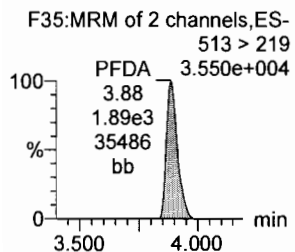
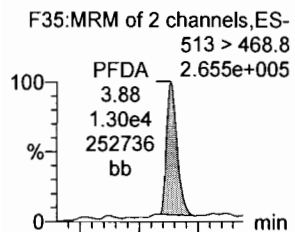
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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

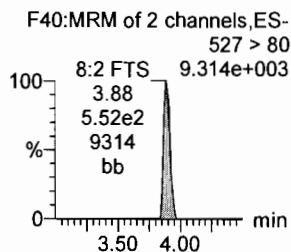
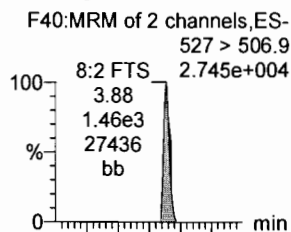
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Name: 170928M3_5, Date: 28-Sep-2017, Time: 18:26:58, ID: ST170928M3-4 PFC CS1 1712812, Description: PFC CS1 1712812

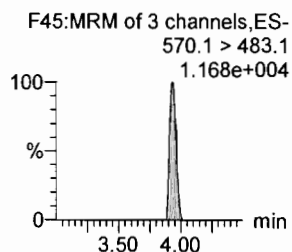
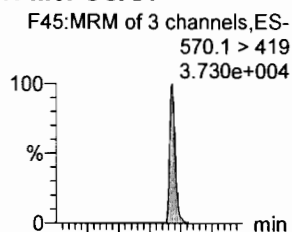
PFDA



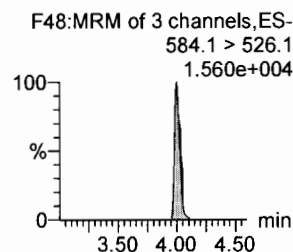
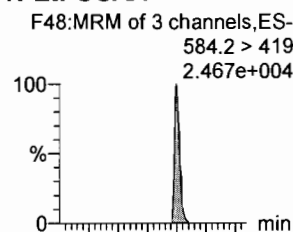
8:2 FTS



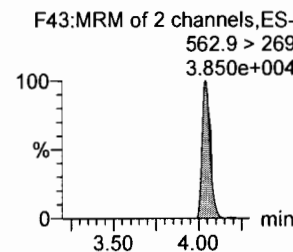
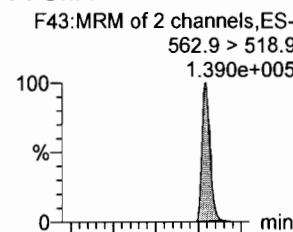
N-MeFOSAA



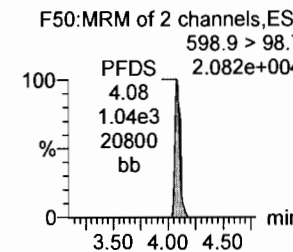
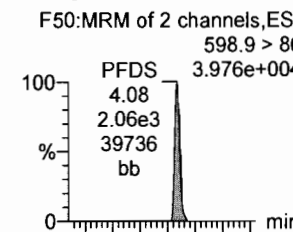
N-EtFOSAA



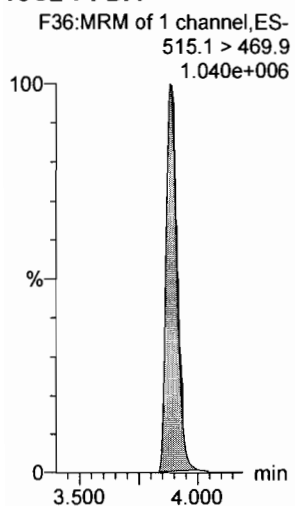
PFUnA



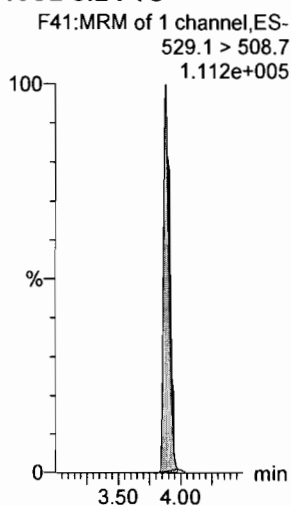
PFDS



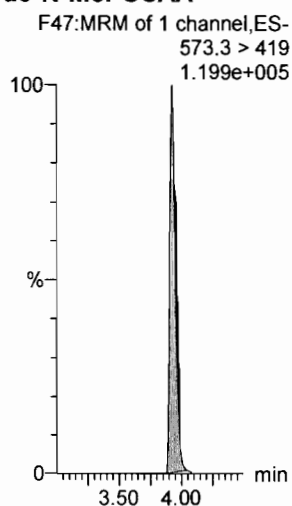
13C2-PFDA



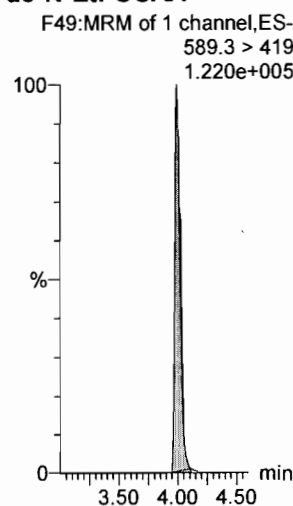
13C2-8:2 FTS



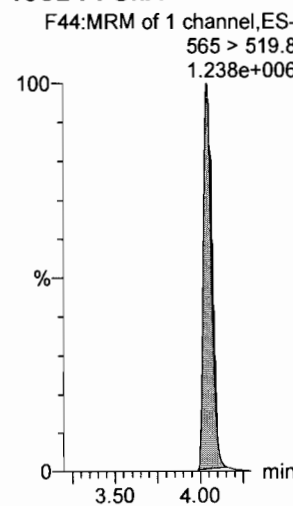
d3-N-MeFOSAA



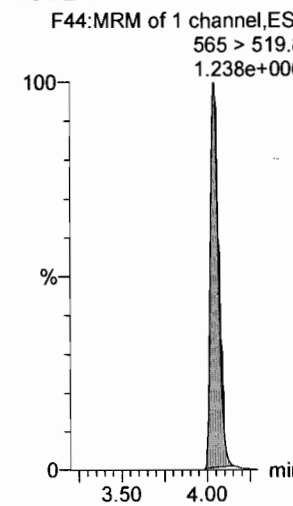
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

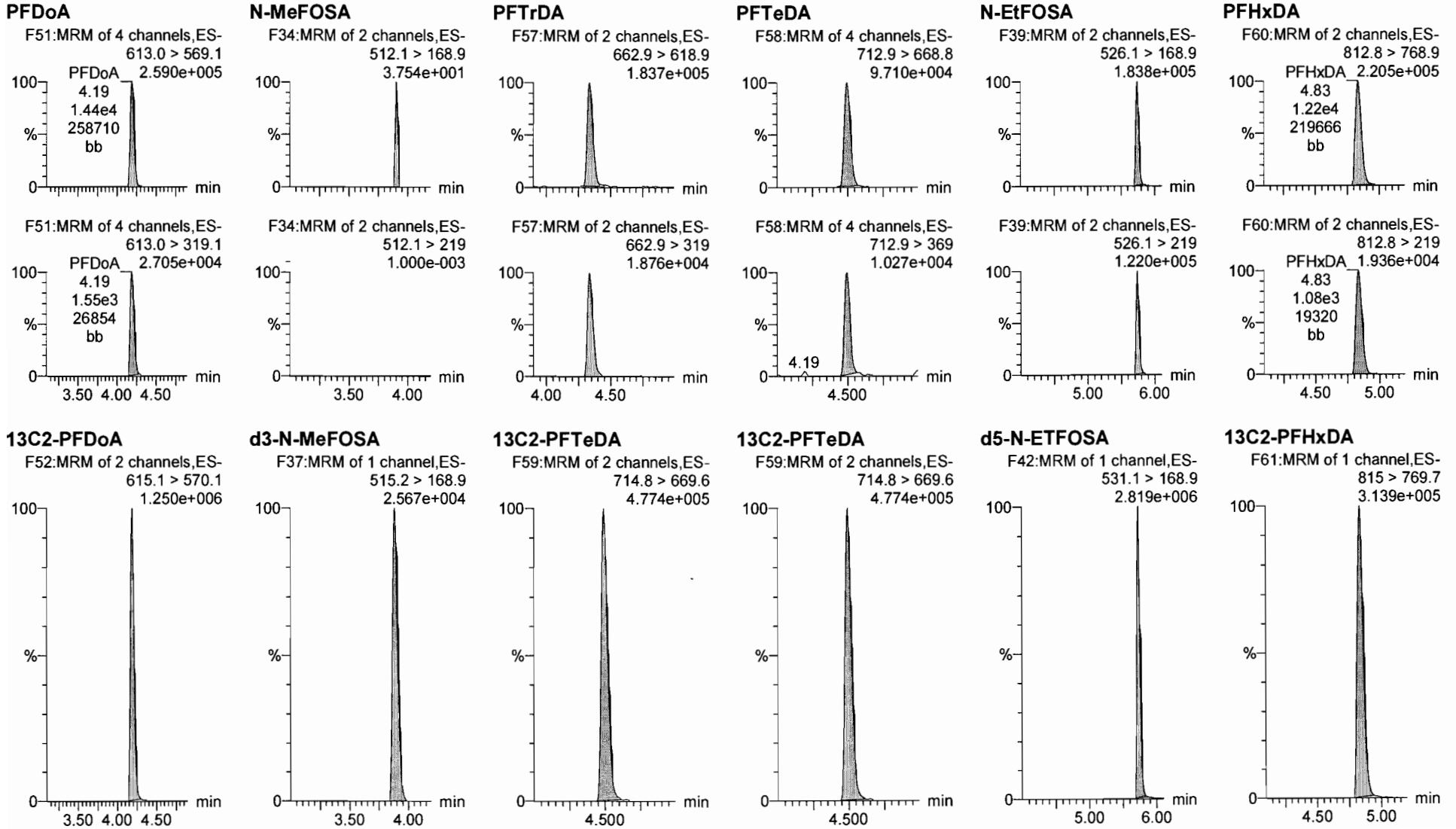


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Name: 170928M3_5, Date: 28-Sep-2017, Time: 18:26:58, ID: ST170928M3-4 PFC CS1 1712812, Description: PFC CS1 1712812



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

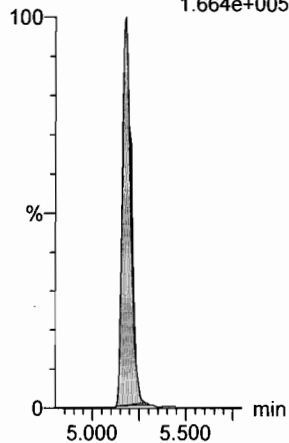
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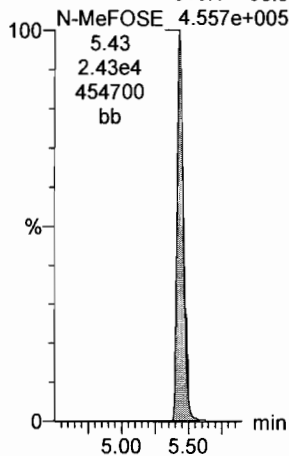
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
1.664e+005



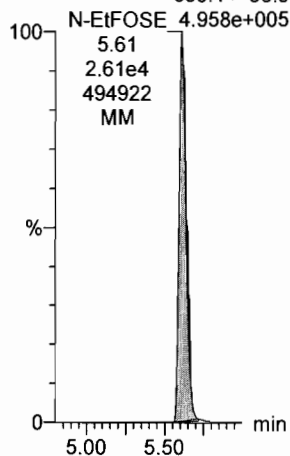
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
4.557e+005



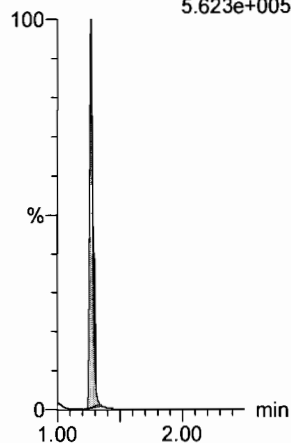
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
4.958e+005



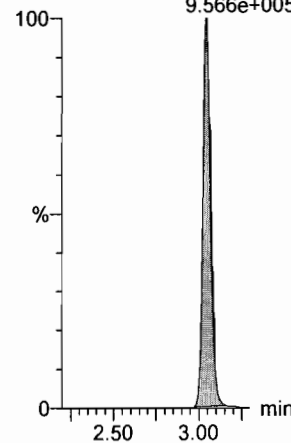
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1
5.623e+005



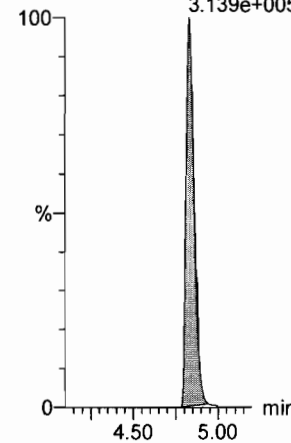
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
9.566e+005



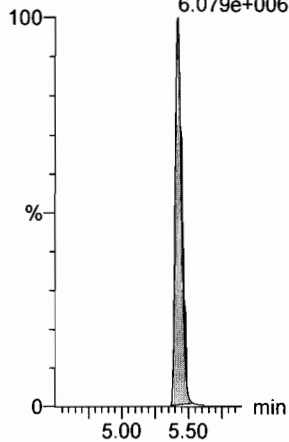
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.139e+005



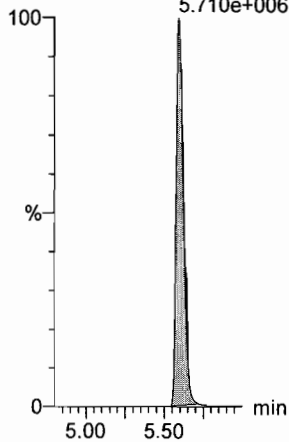
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
6.079e+006



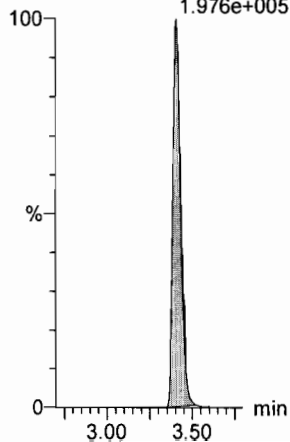
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.710e+006



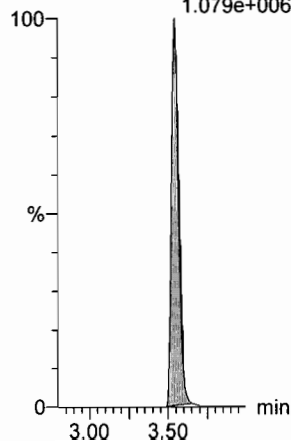
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
1.976e+005



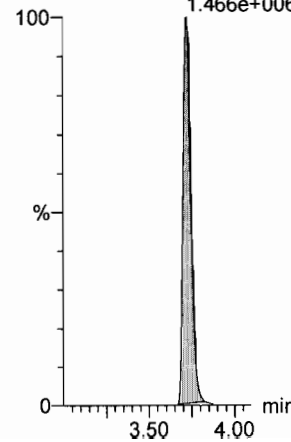
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.079e+006



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
1.466e+006



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

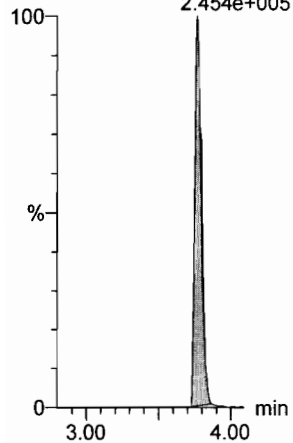
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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_5, Date: 28-Sep-2017, Time: 18:26:58, ID: ST170928M3-4 PFC CS1 1712812, Description: PFC CS1 1712812

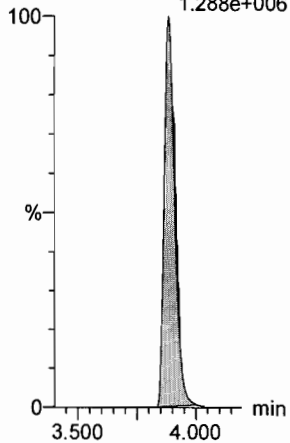
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
2.454e+005



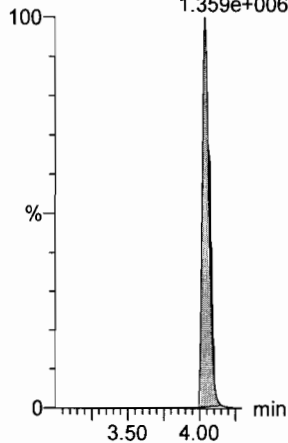
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.288e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.359e+006

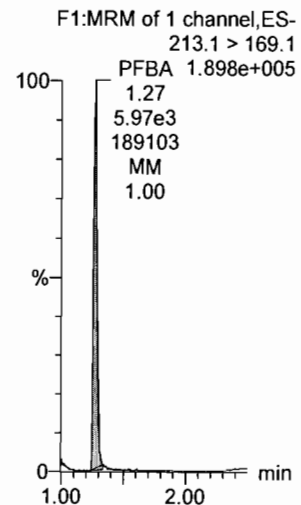


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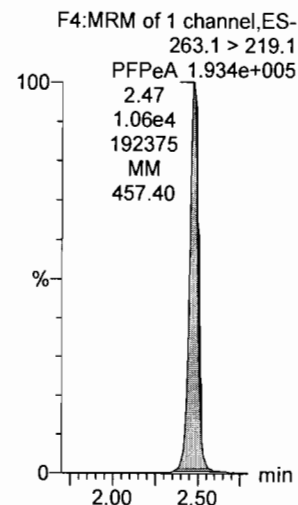
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Name: 170928M3_6, Date: 28-Sep-2017, Time: 18:37:36, ID: ST170928M3-5 PFC CS2 1712813, Description: PFC CS2 1712813

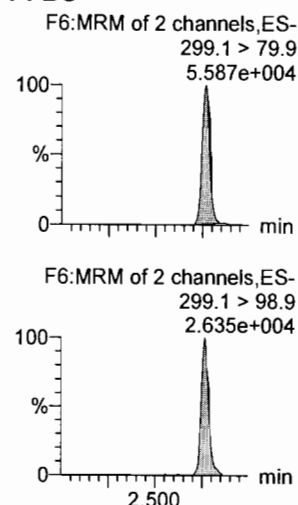
PFBA



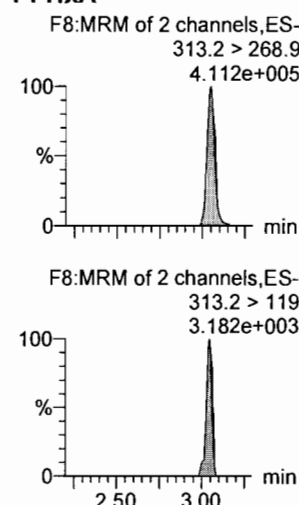
PFPeA



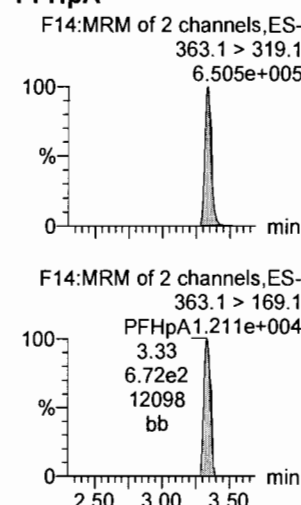
PFBS



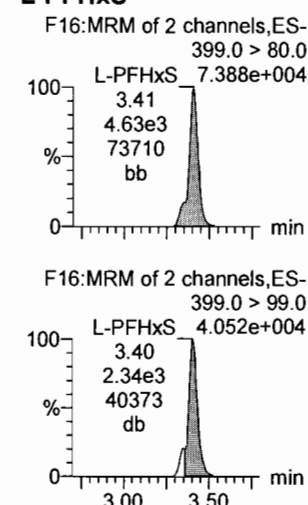
PFHxA



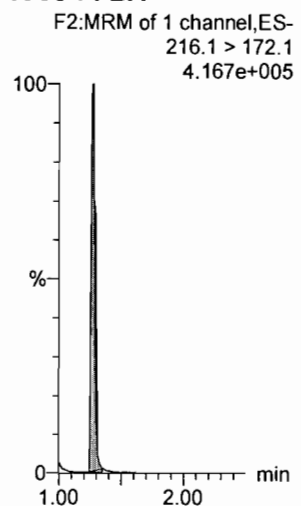
PFHpA



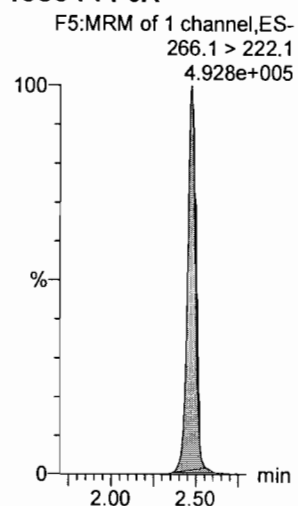
L-PFHxS



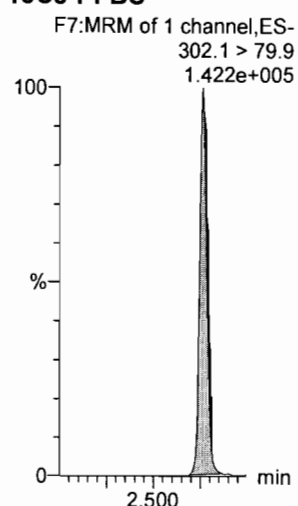
13C3-PFBA



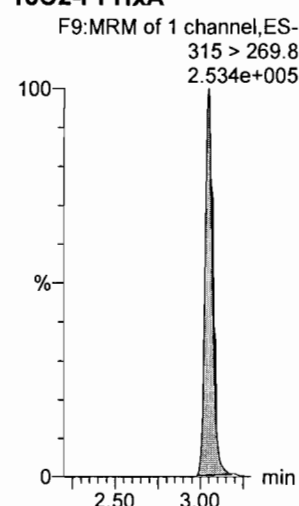
13C3-PFPeA



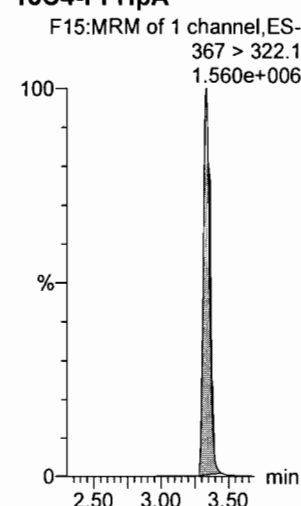
13C3-PFBS



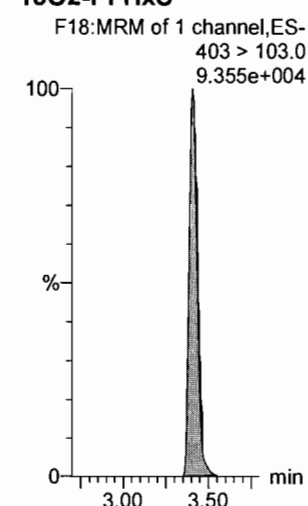
13C2-PFHxA



13C4-PFHpA



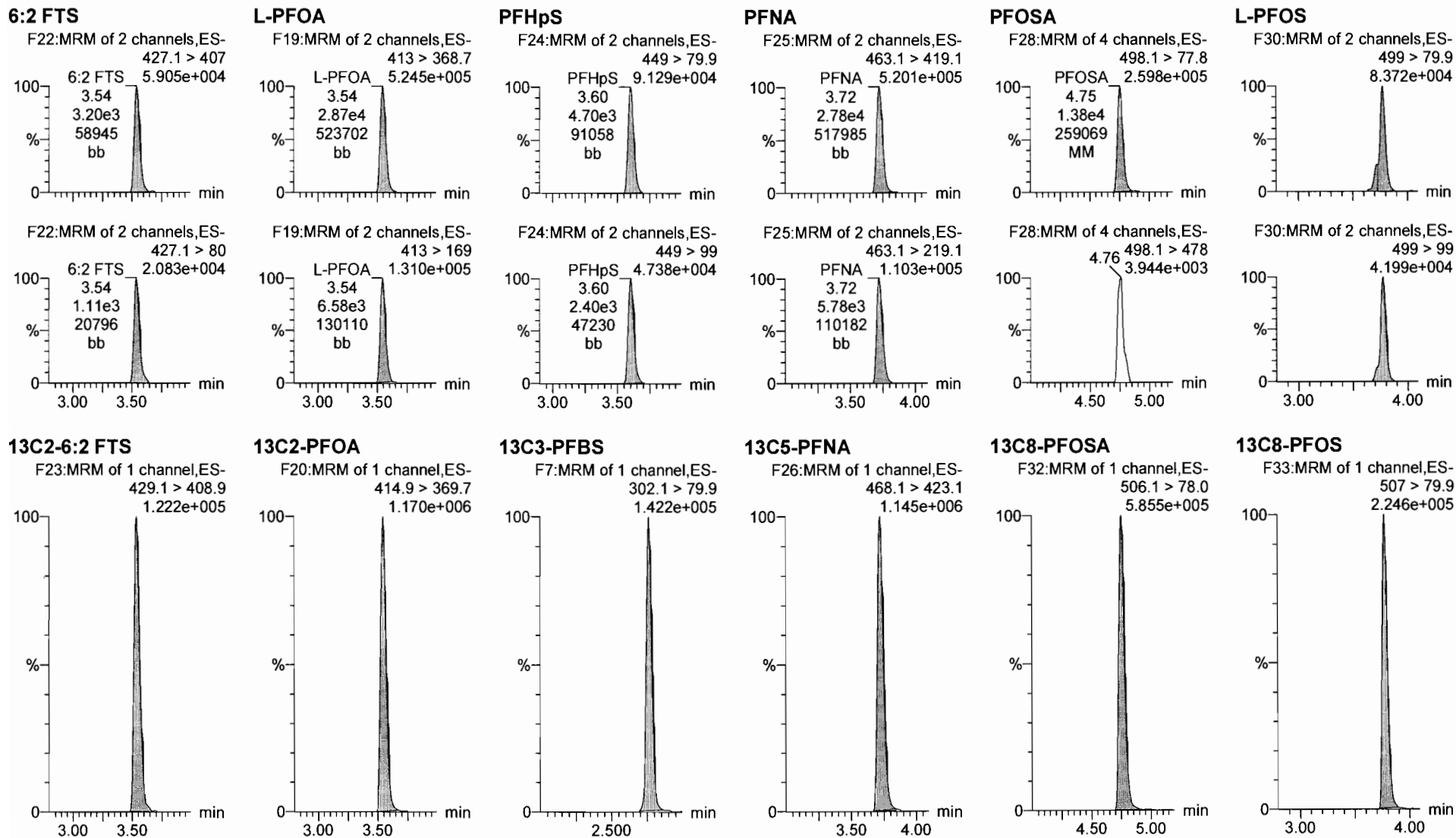
18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
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Name: 170928M3_6, Date: 28-Sep-2017, Time: 18:37:36, ID: ST170928M3-5 PFC CS2 1712813, Description: PFC CS2 1712813

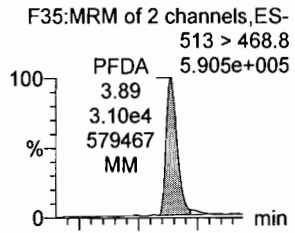


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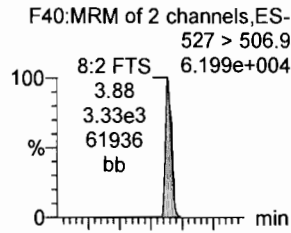
Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_6, Date: 28-Sep-2017, Time: 18:37:36, ID: ST170928M3-5 PFC CS2 1712813, Description: PFC CS2 1712813

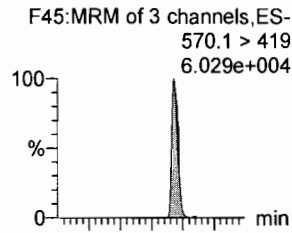
PFDA



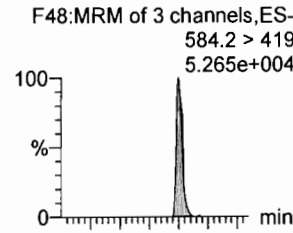
8:2 FTS



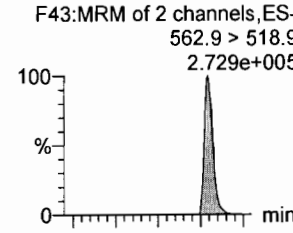
N-MeFOSAA



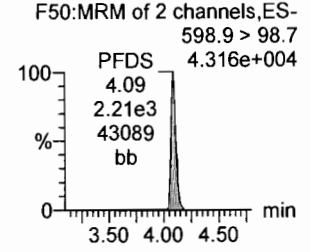
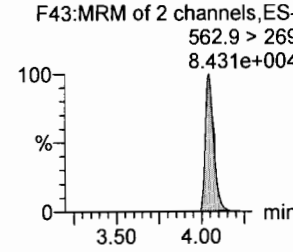
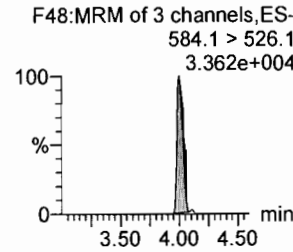
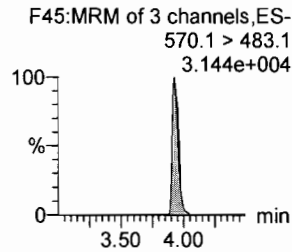
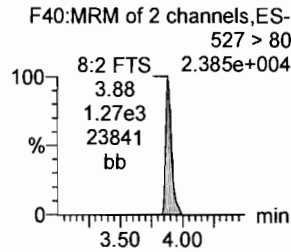
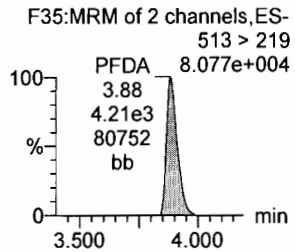
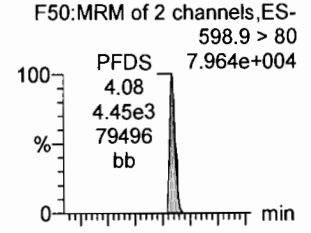
N-EtFOSAA



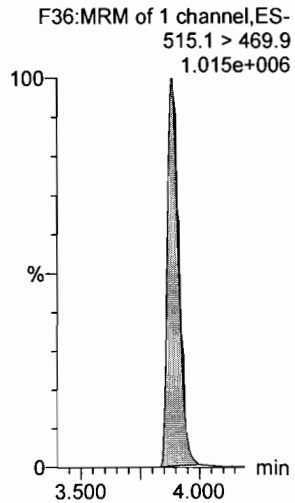
PFUnA



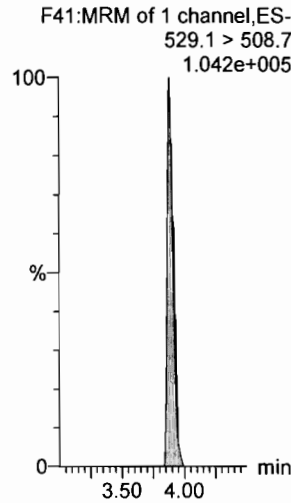
PFDS



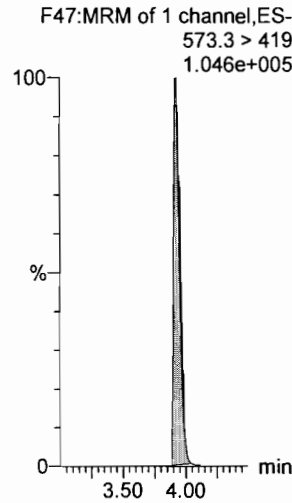
13C2-PFDA



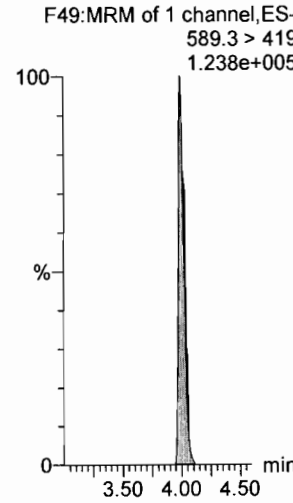
13C2-8:2 FTS



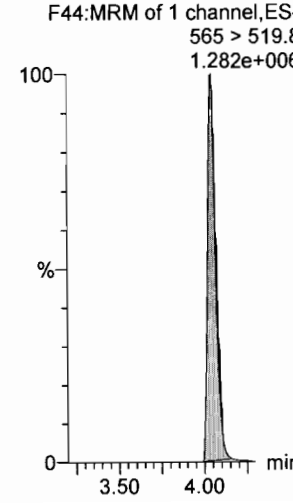
d3-N-MeFOSAA



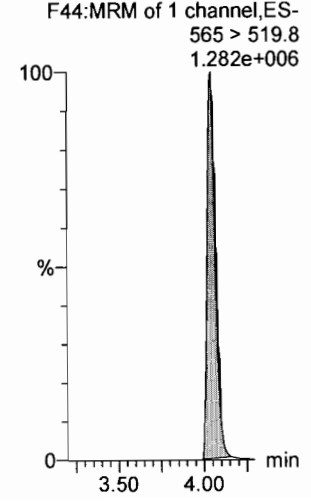
d5-N-EtFOSAA



13C2-PFUnA



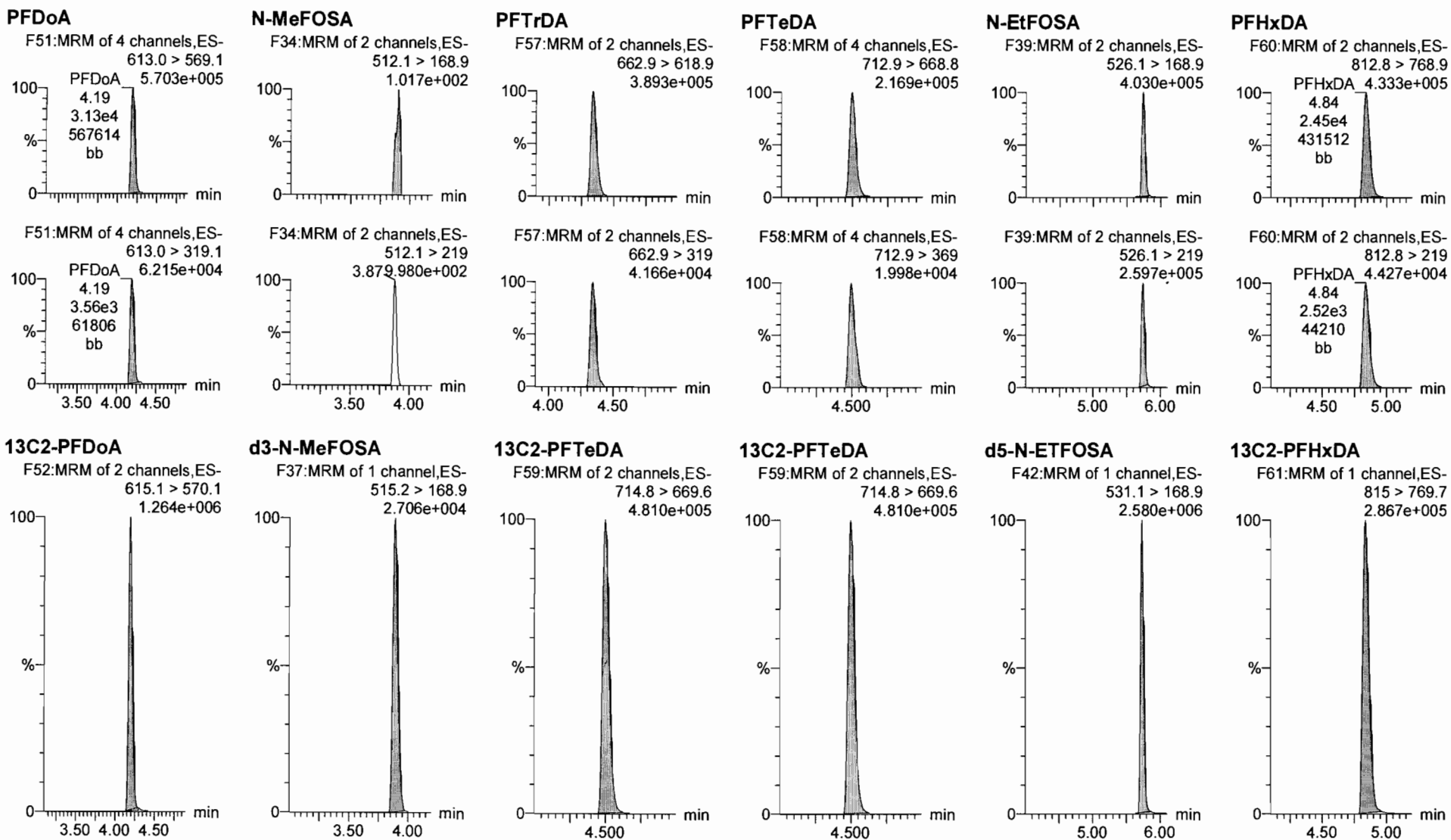
13C2-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
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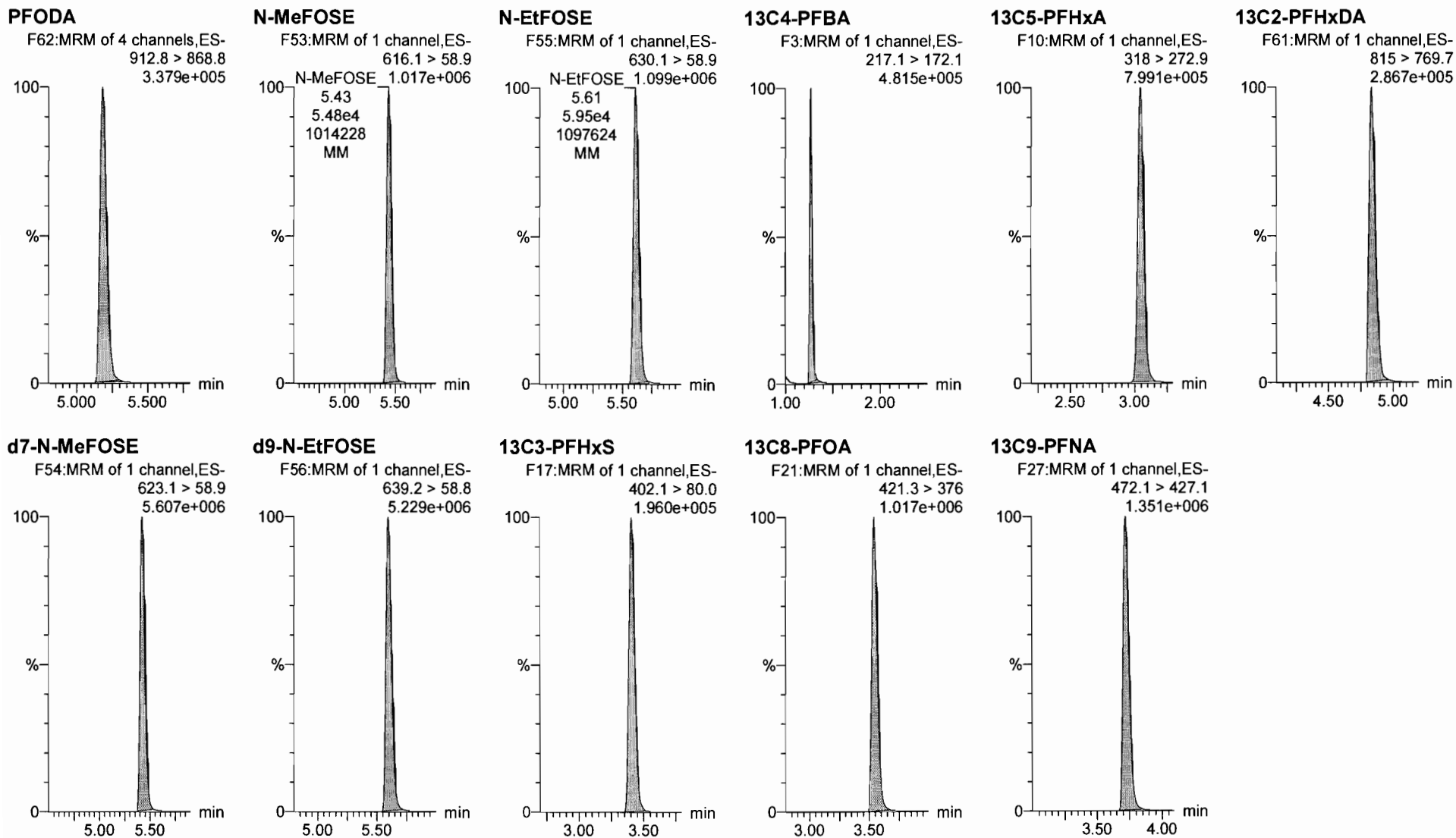
Name: 170928M3_6, Date: 28-Sep-2017, Time: 18:37:36, ID: ST170928M3-5 PFC CS2 1712813, Description: PFC CS2 1712813



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_6, Date: 28-Sep-2017, Time: 18:37:36, ID: ST170928M3-5 PFC CS2 1712813, Description: PFC CS2 1712813



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

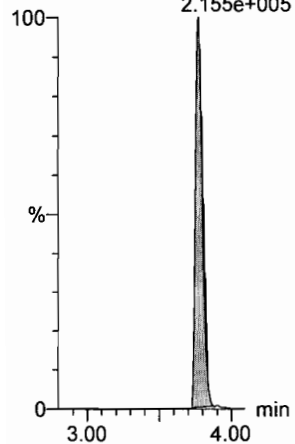
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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_6, Date: 28-Sep-2017, Time: 18:37:36, ID: ST170928M3-5 PFC CS2 1712813, Description: PFC CS2 1712813

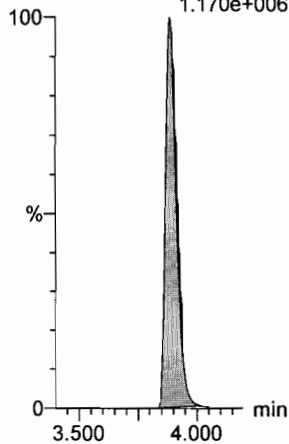
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
2.155e+005



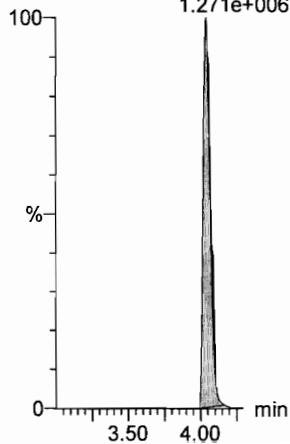
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.170e+006



13C7-PFUnA

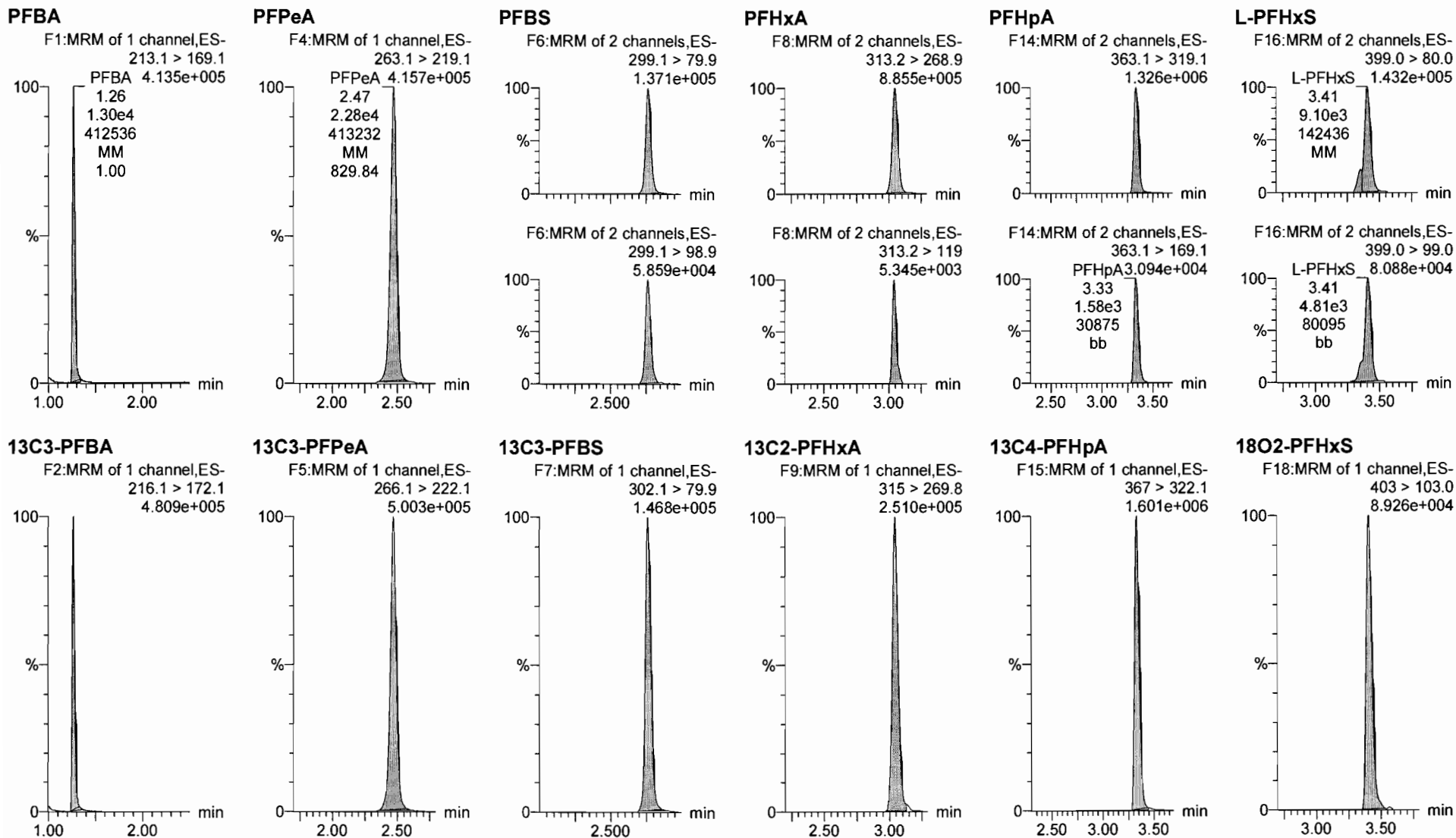
F46:MRM of 1 channel,ES-
570.1 > 524.8
1.271e+006



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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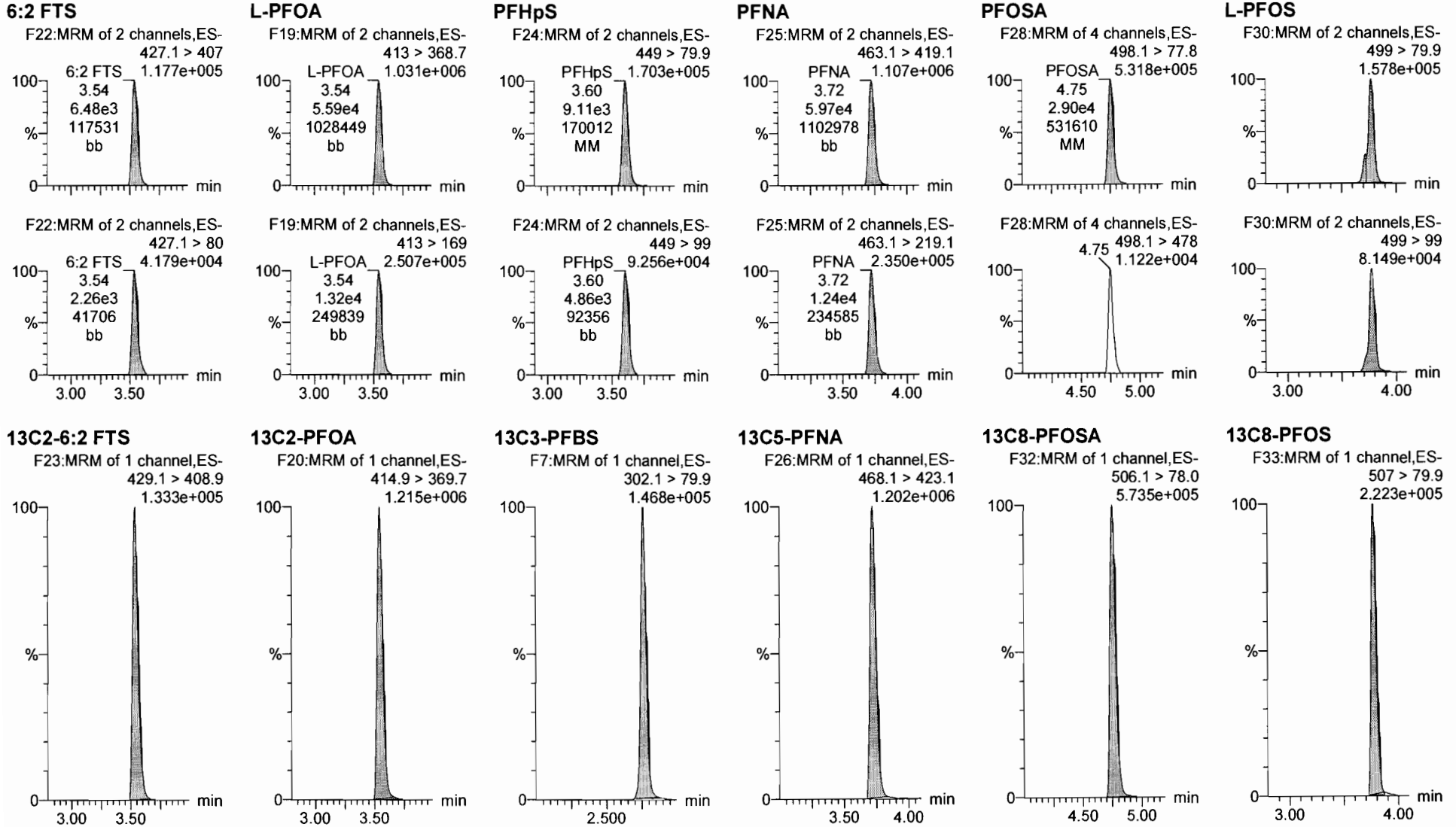
Name: 170928M3_7, Date: 28-Sep-2017, Time: 18:48:22, ID: ST170928M3-6 PFC CS3 1712814, Description: PFC CS3 1712814



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
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Name: 170928M3_7, Date: 28-Sep-2017, Time: 18:48:22, ID: ST170928M3-6 PFC CS3 1712814, Description: PFC CS3 1712814



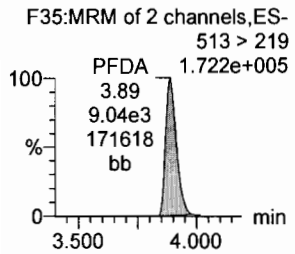
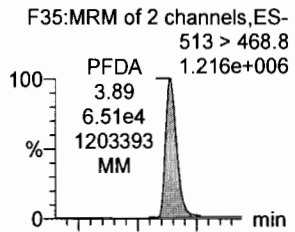
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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

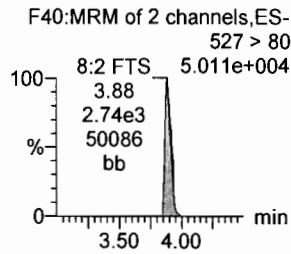
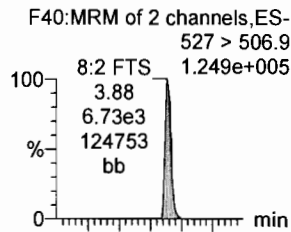
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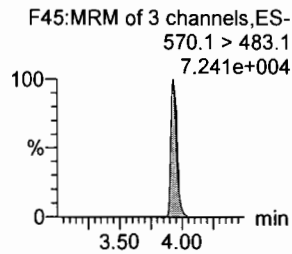
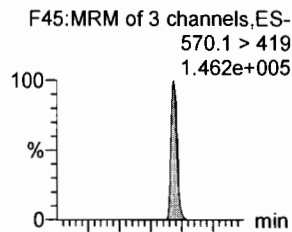
PFDA



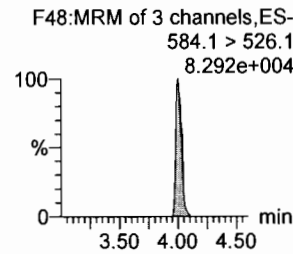
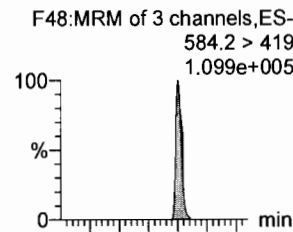
8:2 FTS



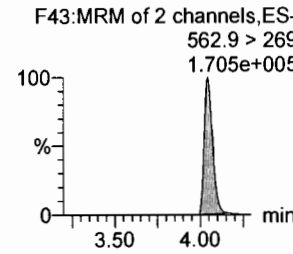
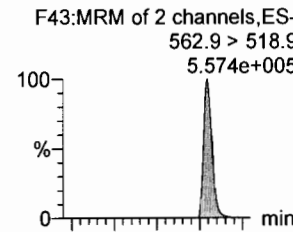
N-MeFOSAA



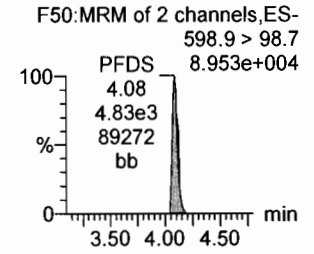
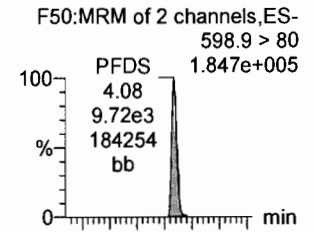
N-EtFOSAA



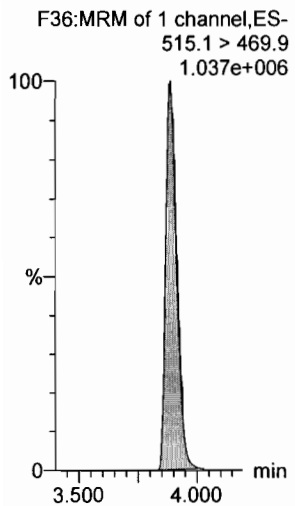
PFUnA



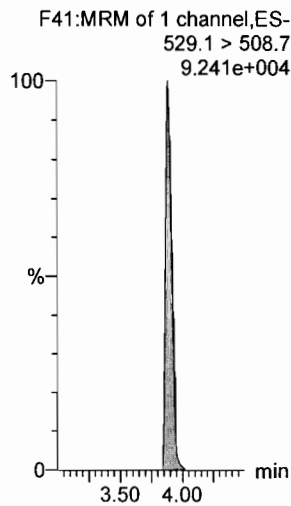
PFDS



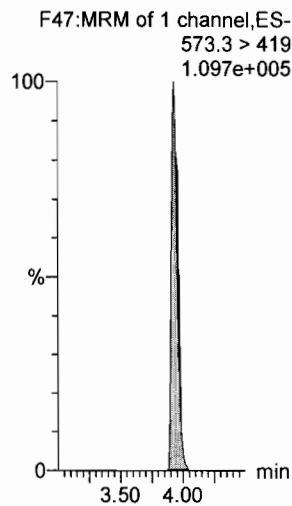
13C2-PFDA



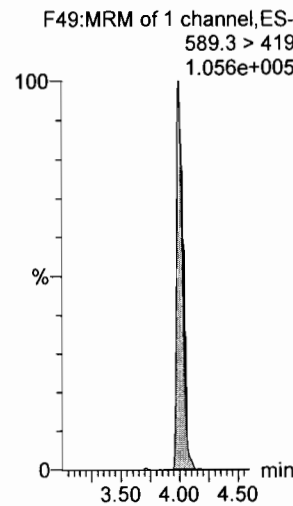
13C2-8:2 FTS



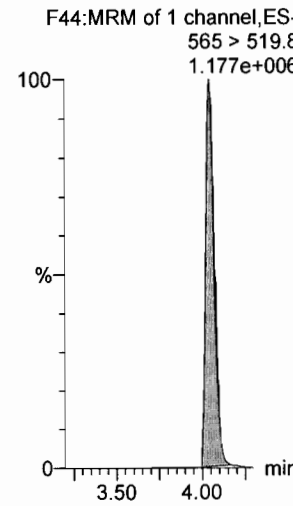
d3-N-MeFOSAA



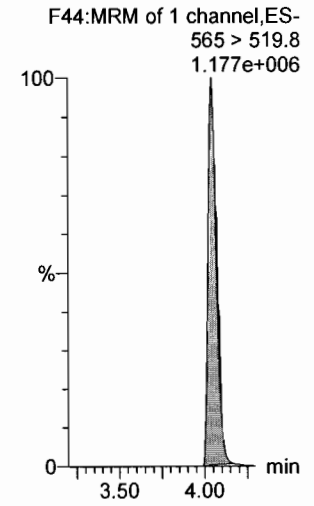
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

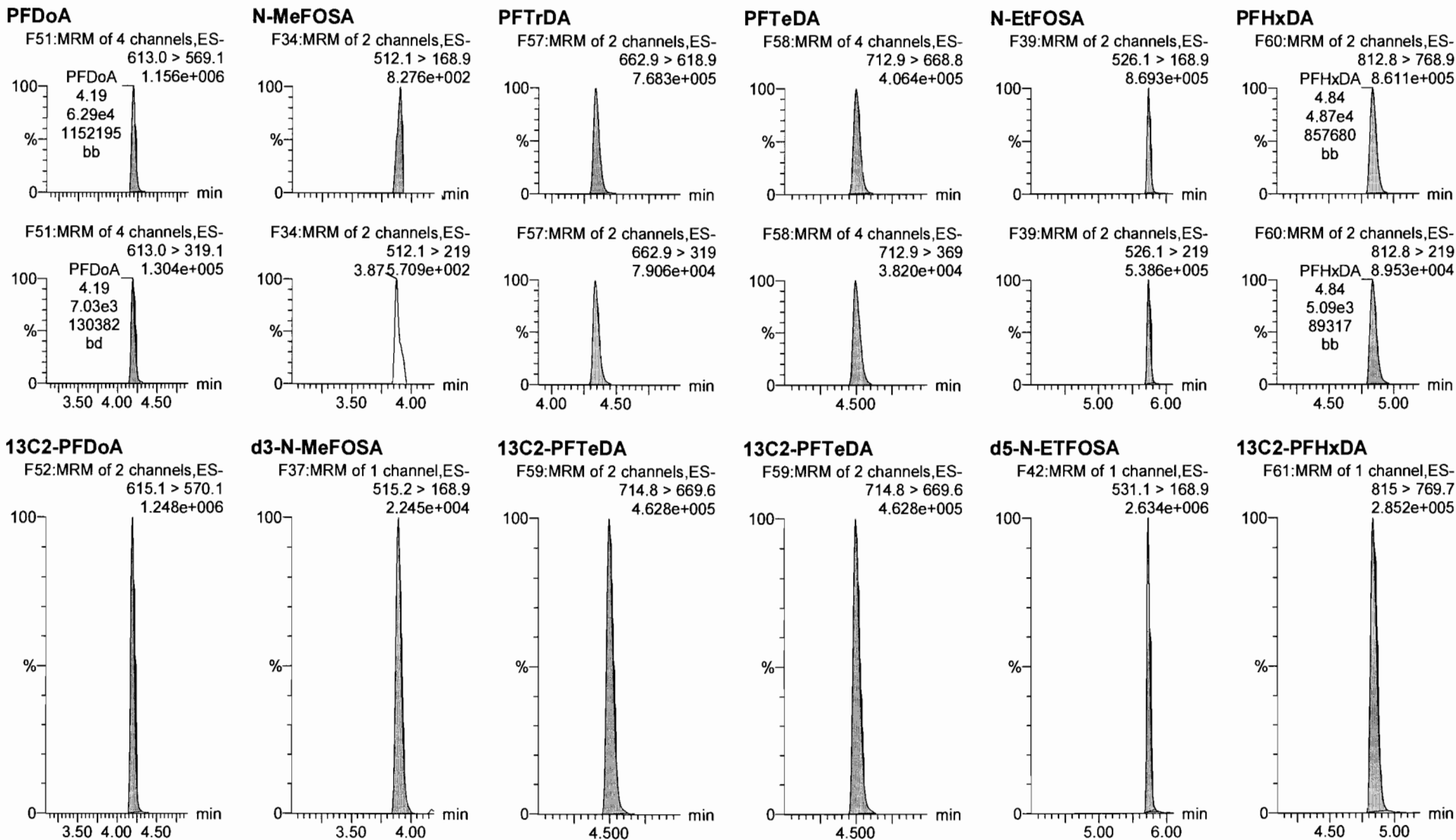


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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

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Name: 170928M3_7, Date: 28-Sep-2017, Time: 18:48:22, ID: ST170928M3-6 PFC CS3 1712814, Description: PFC CS3 1712814



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

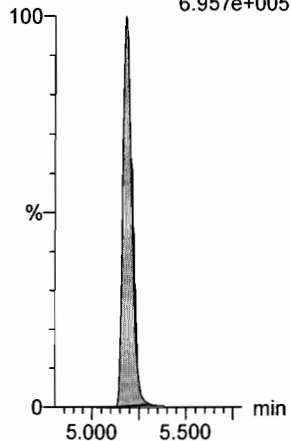
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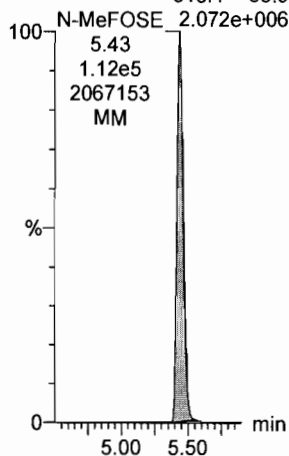
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
6.957e+005



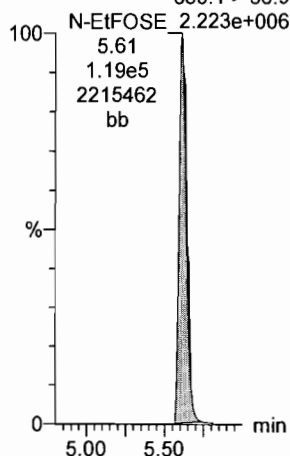
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
2.072e+006



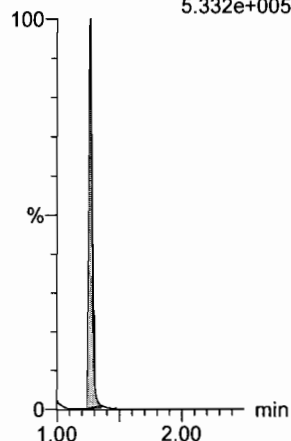
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
2.223e+006



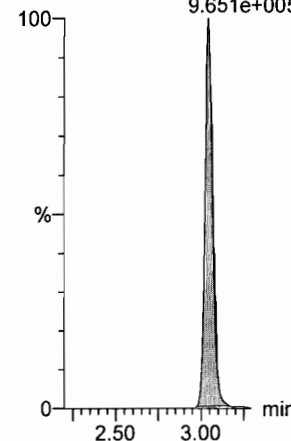
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1
5.332e+005



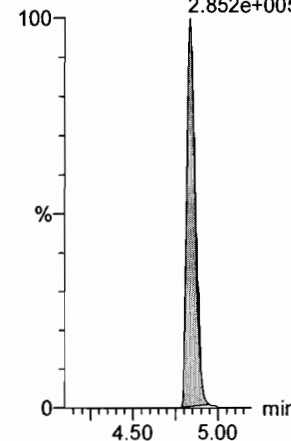
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
9.651e+005



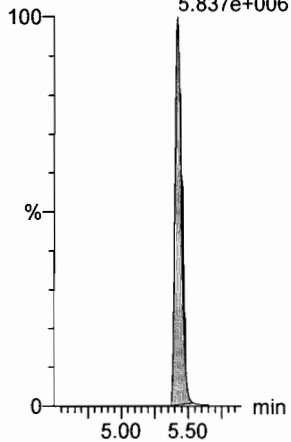
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
2.852e+005



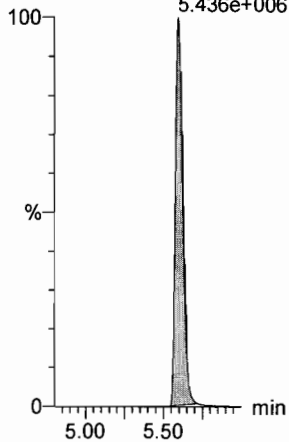
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.837e+006



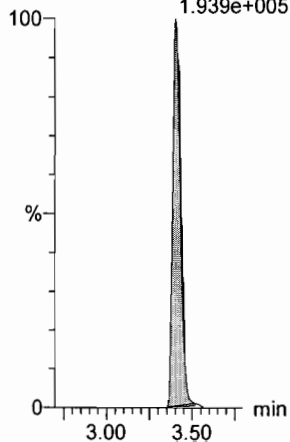
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.436e+006



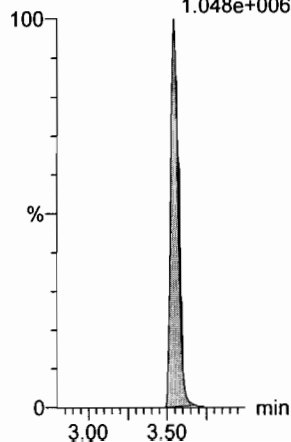
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
1.939e+005



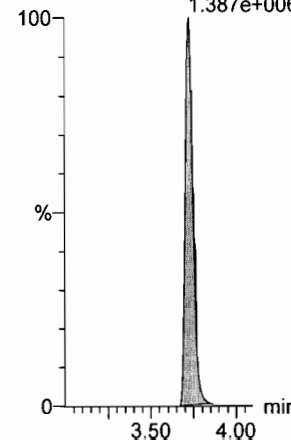
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.048e+006



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
1.387e+006



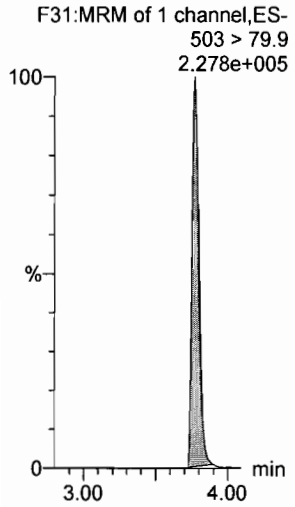
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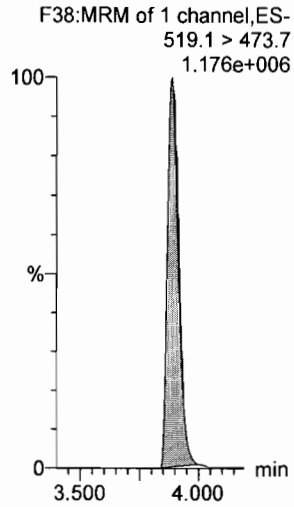
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Name: 170928M3_7, Date: 28-Sep-2017, Time: 18:48:22, ID: ST170928M3-6 PFC CS3 17I2814, Description: PFC CS3 17I2814

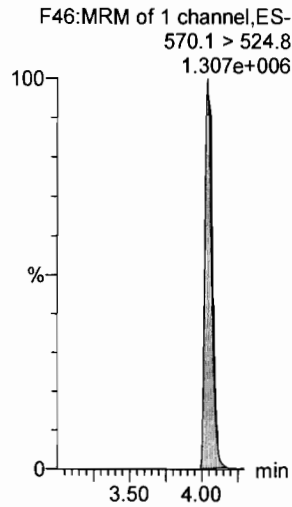
13C4-PFOS



13C6-PFDA



13C7-PFUnA

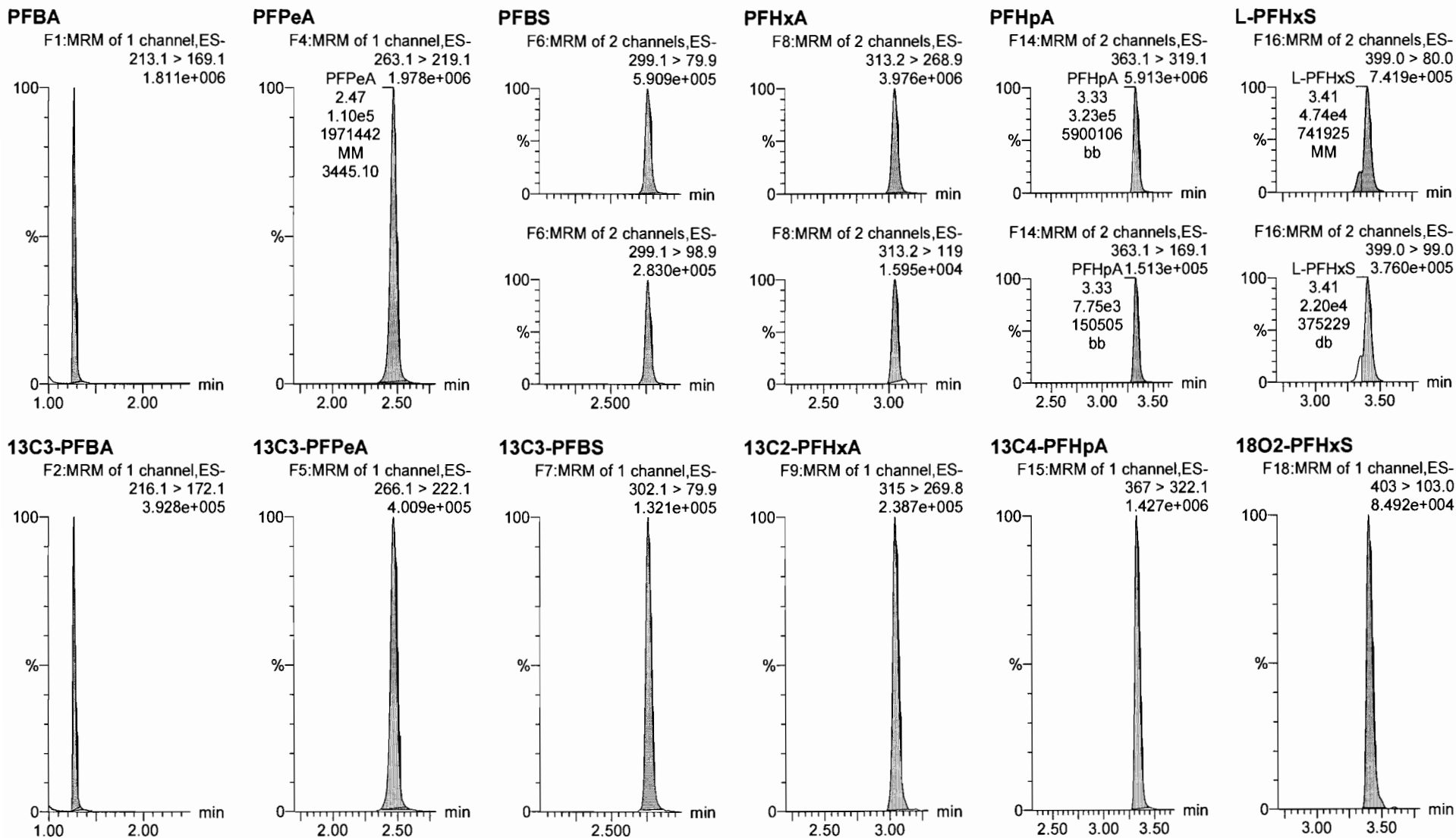


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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_8, Date: 28-Sep-2017, Time: 18:59:01, ID: ST170928M3-7 PFC CS4 1712815, Description: PFC CS4 1712815

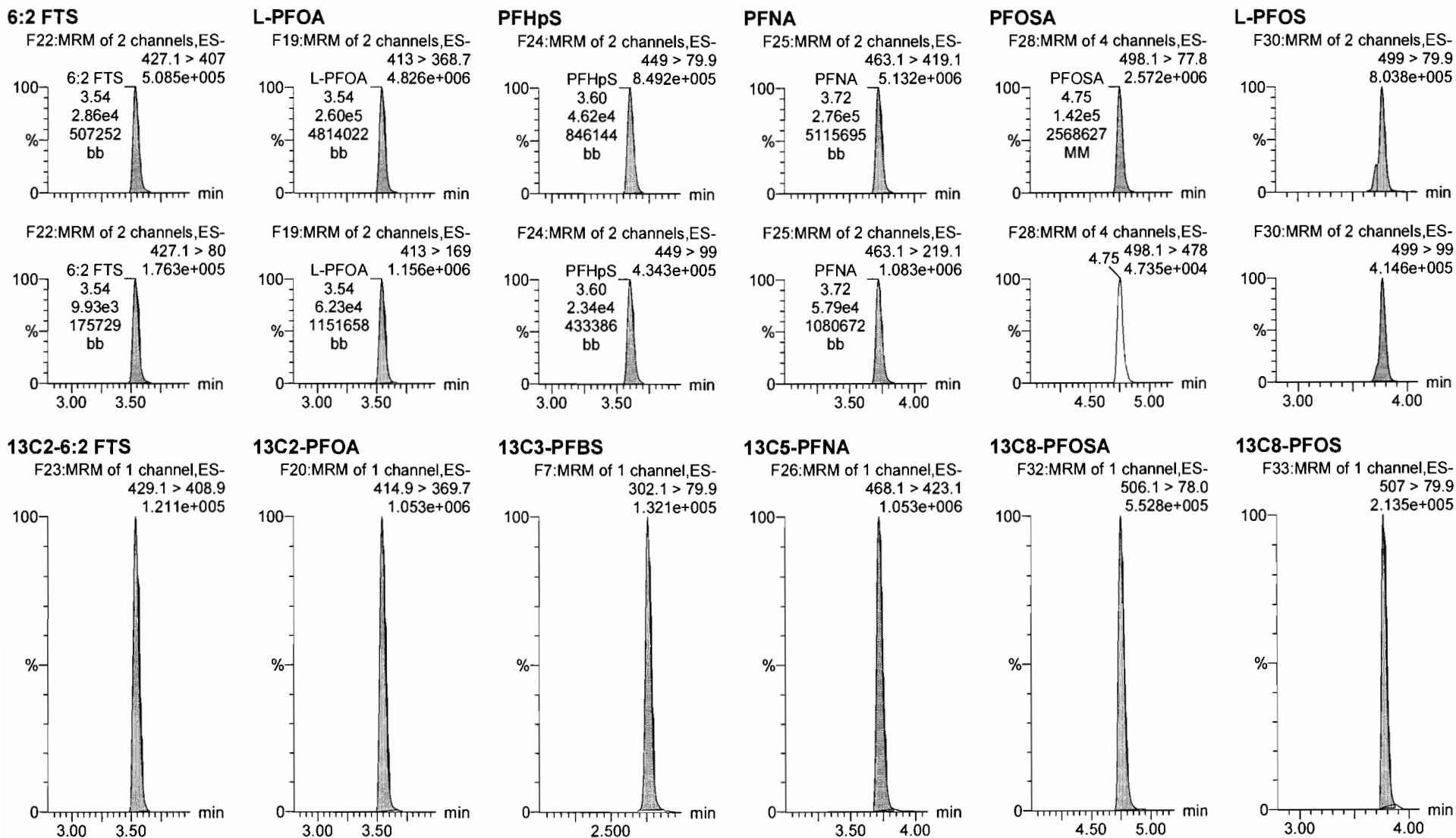


Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_8, Date: 28-Sep-2017, Time: 18:59:01, ID: ST170928M3-7 PFC CS4 1712815, Description: PFC CS4 1712815

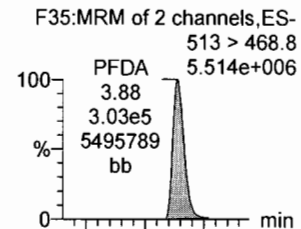


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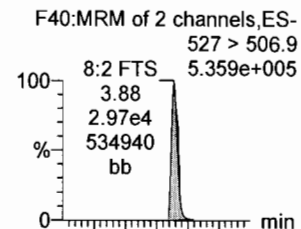
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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_8, Date: 28-Sep-2017, Time: 18:59:01, ID: ST170928M3-7 PFC CS4 1712815, Description: PFC CS4 1712815

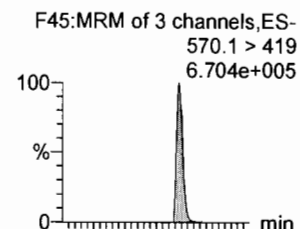
PFDA



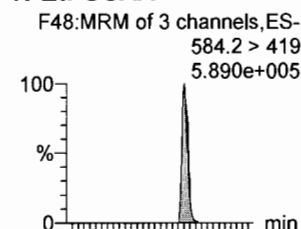
8:2 FTS



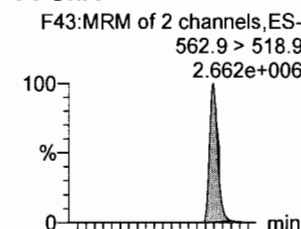
N-MeFOSAA



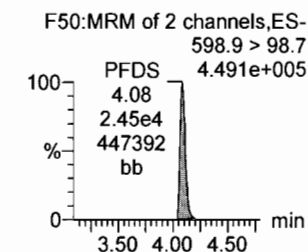
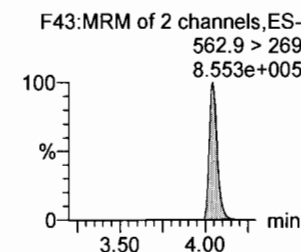
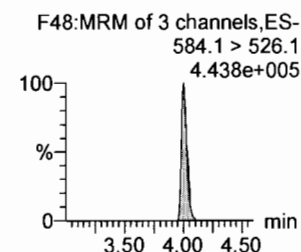
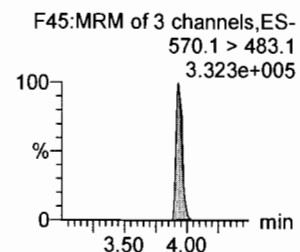
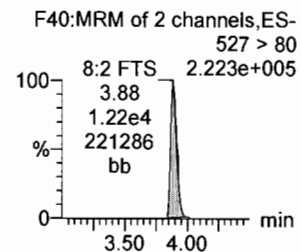
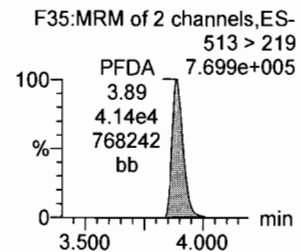
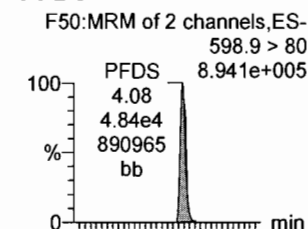
N-EtFOSAA



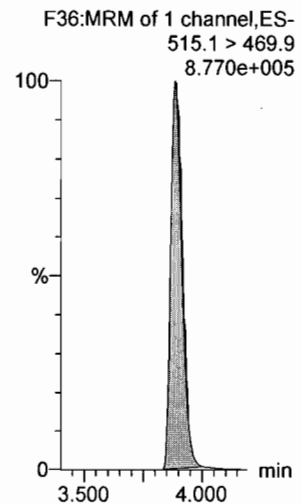
PFUnA



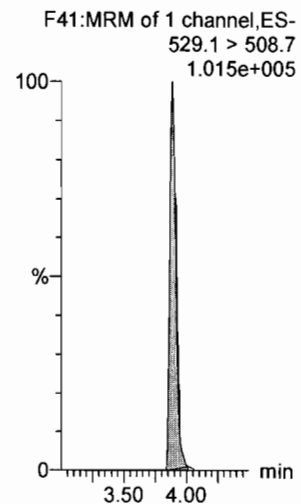
PFDS



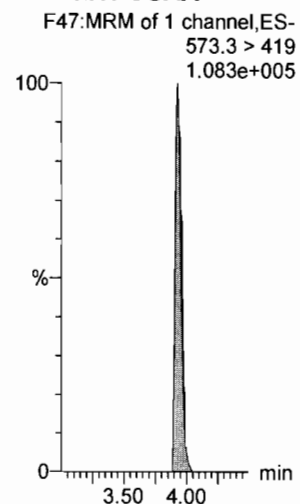
13C2-PFDA



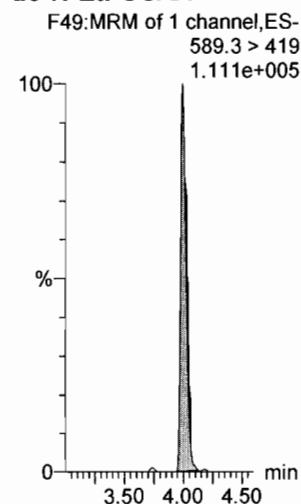
13C2-8:2 FTS



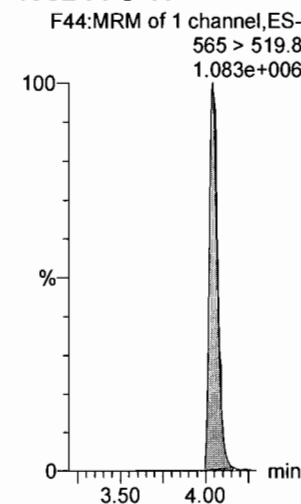
d3-N-MeFOSAA



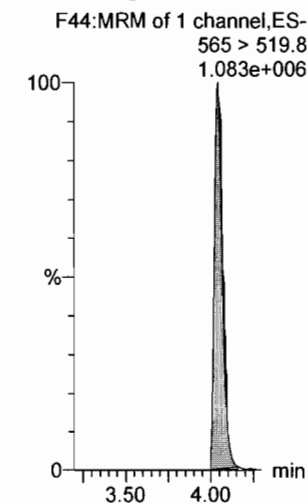
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA

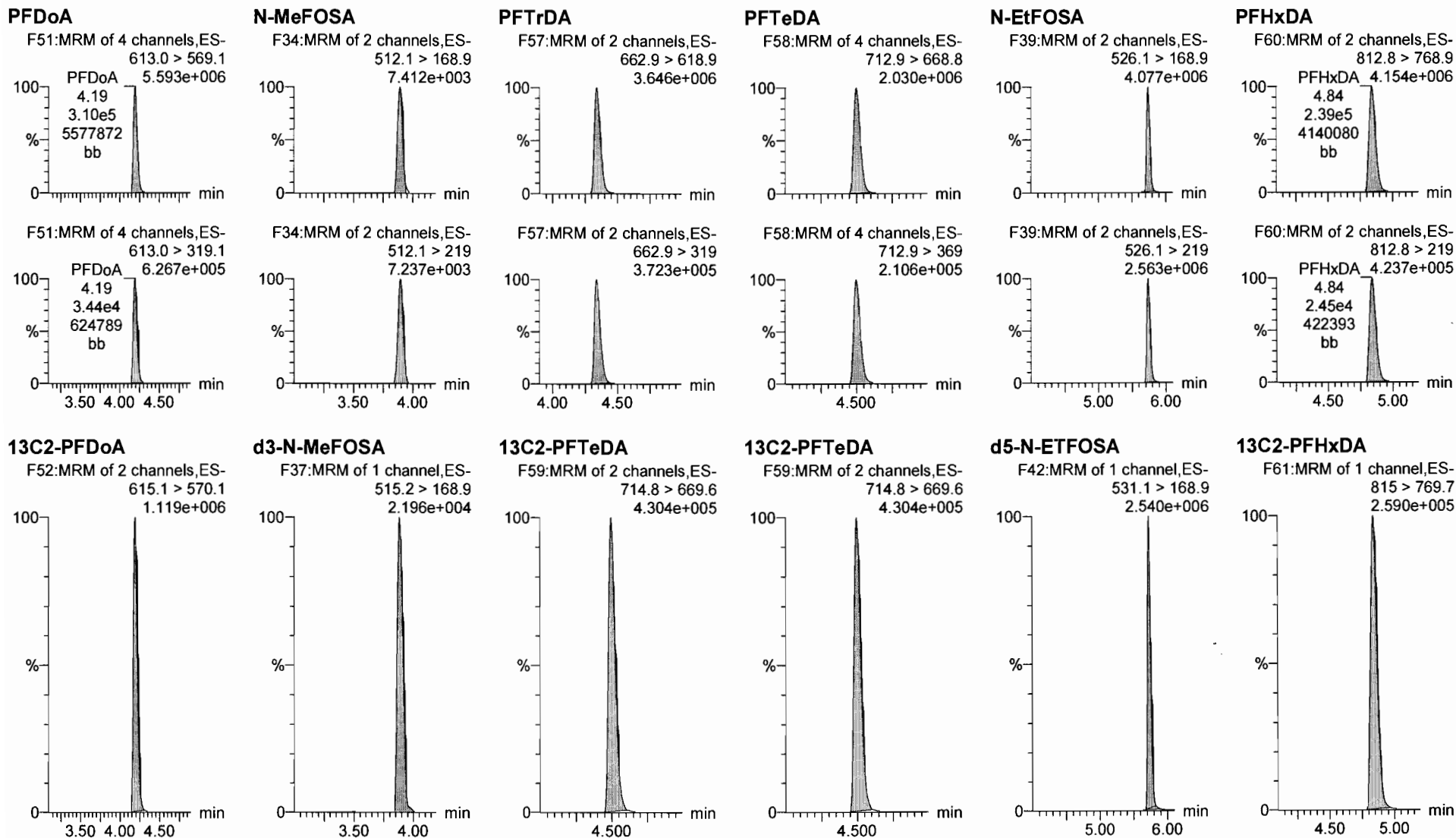


Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

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Name: 170928M3_8, Date: 28-Sep-2017, Time: 18:59:01, ID: ST170928M3-7 PFC CS4 1712815, Description: PFC CS4 1712815



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

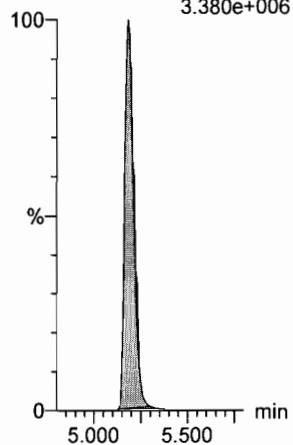
Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_8, Date: 28-Sep-2017, Time: 18:59:01, ID: ST170928M3-7 PFC CS4 1712815, Description: PFC CS4 1712815

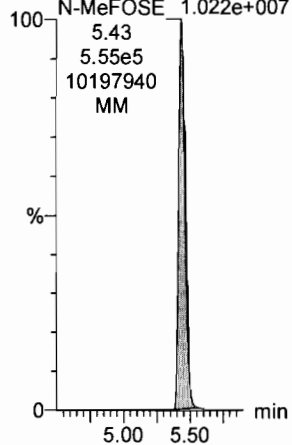
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
3.380e+006



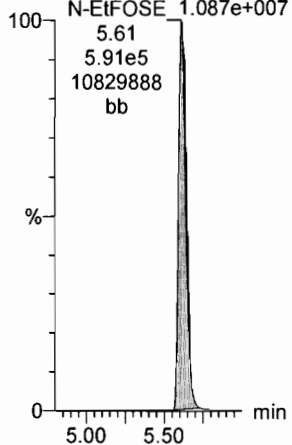
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
1.022e+007



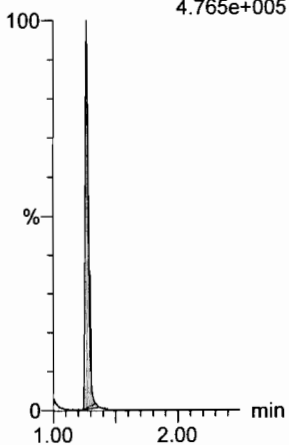
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
1.087e+007



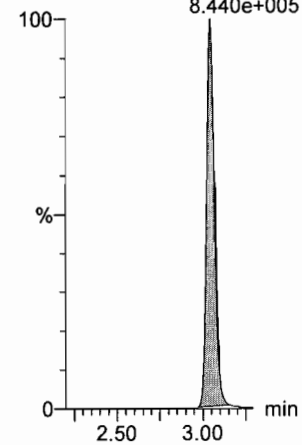
13C4-PFBA

F3:MRM of 1 channel,ES-
217.1 > 172.1
4.765e+005



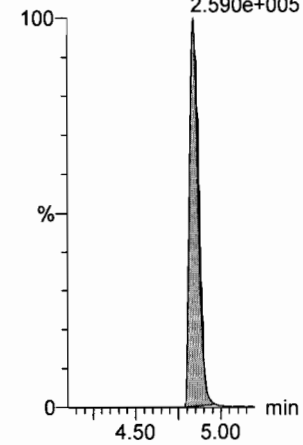
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.440e+005



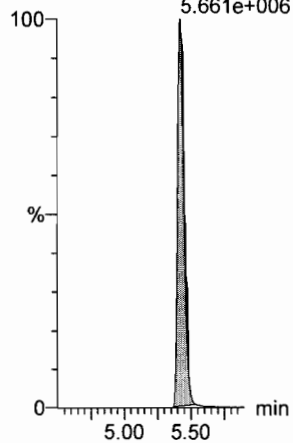
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
2.590e+005



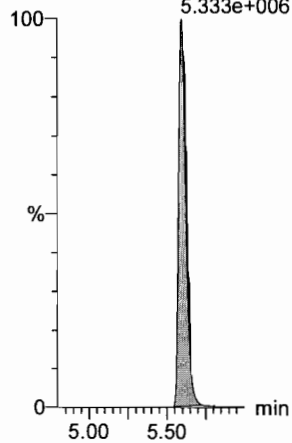
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.661e+006



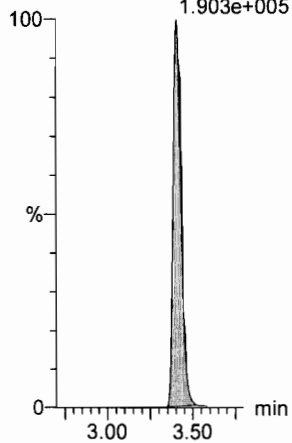
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.333e+006



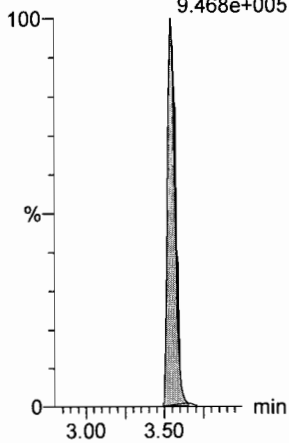
13C3-PFHxS

F17:MRM of 1 channel,ES-
402.1 > 80.0
1.903e+005



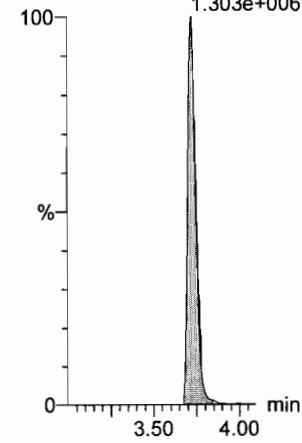
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
9.468e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
472.1 > 427.1
1.303e+006



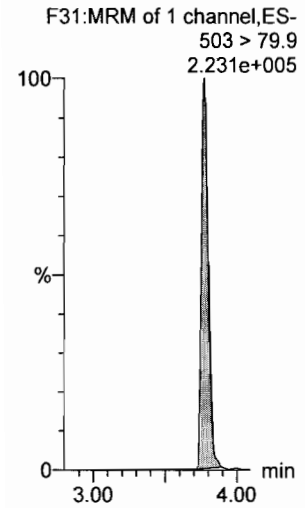
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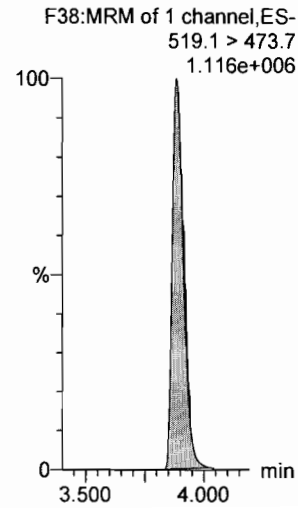
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Name: 170928M3_8, Date: 28-Sep-2017, Time: 18:59:01, ID: ST170928M3-7 PFC CS4 1712815, Description: PFC CS4 1712815

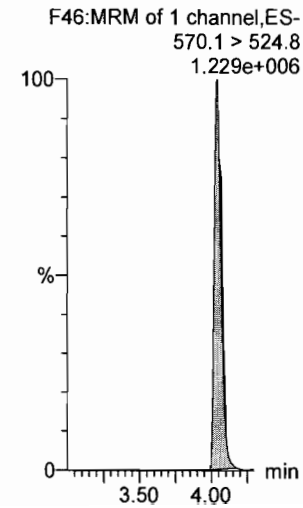
13C4-PFOS



13C6-PFDA



13C7-PFUnA



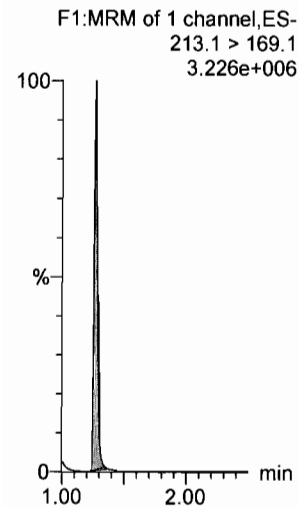
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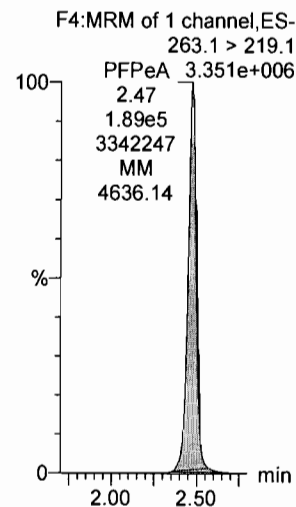
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

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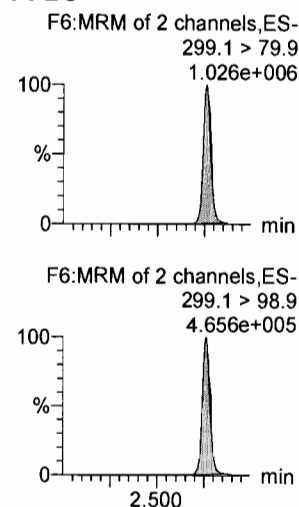
PFBA



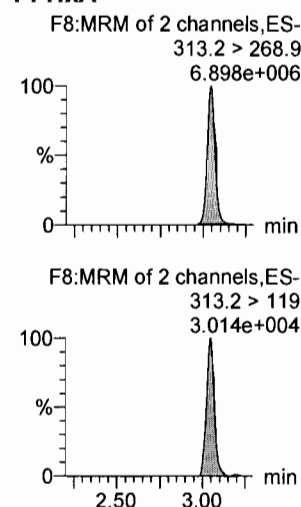
PFPeA



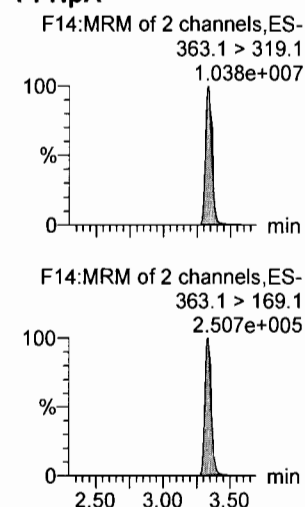
PFBS



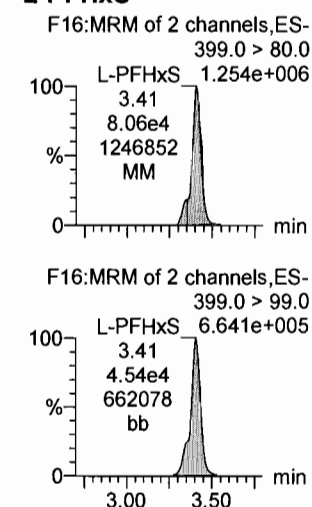
PFHxA



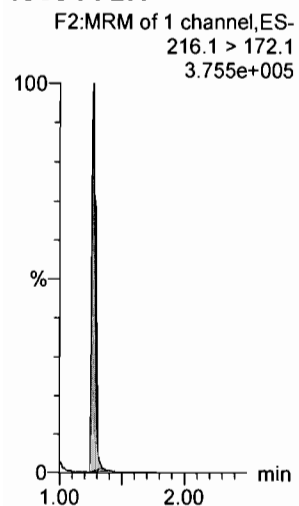
PFHpA



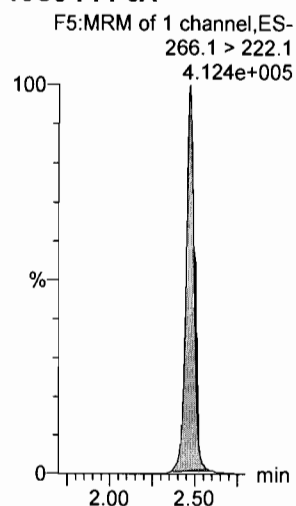
L-PFHxS



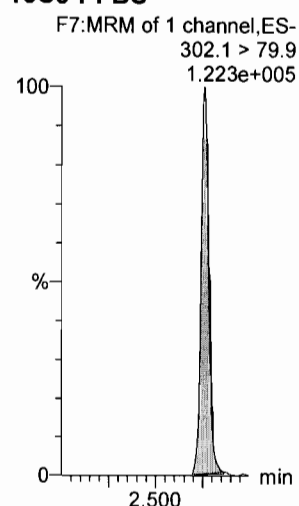
13C3-PFBA



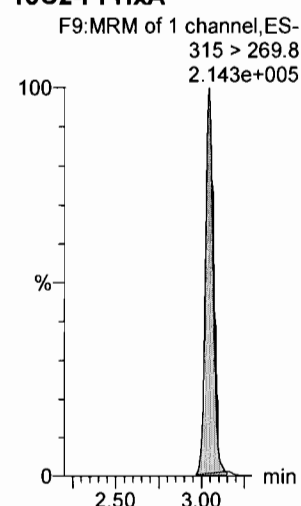
13C3-PFPeA



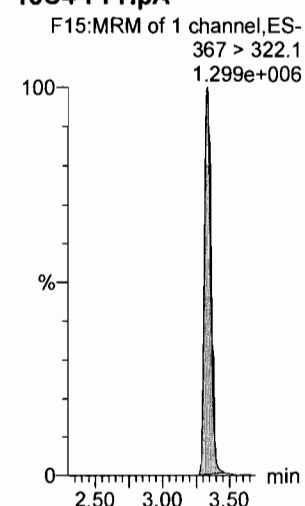
13C3-PFBS



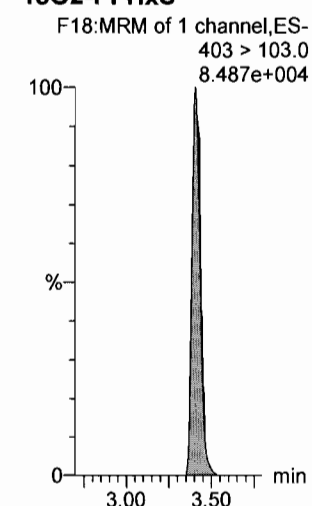
13C2-PFHxA



13C4-PFHpA



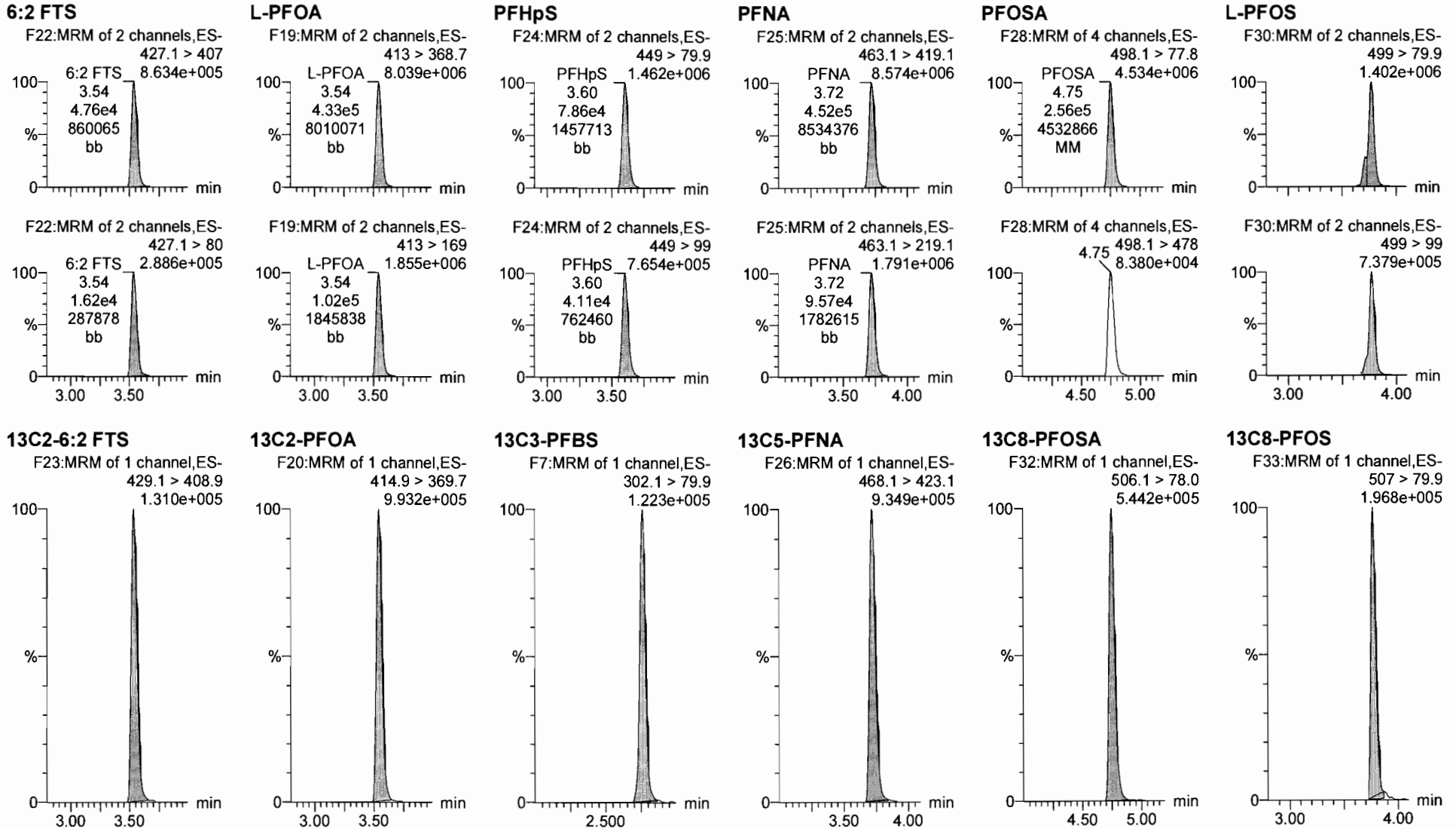
18O2-PFHxS



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Name: 170928M3_9, Date: 28-Sep-2017, Time: 19:09:47, ID: ST170928M3-8 PFC CS5 1712816, Description: PFC CS5 1712816



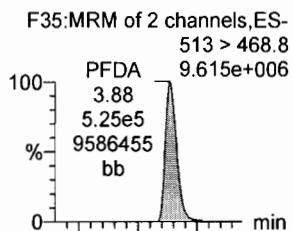
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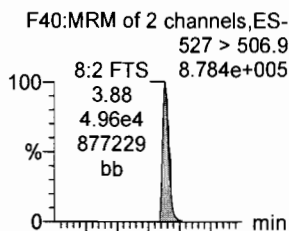
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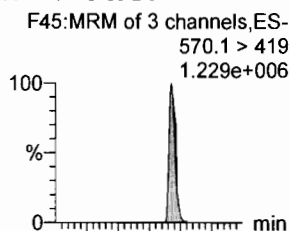
PFDA



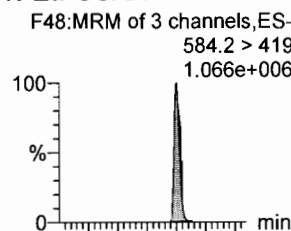
8:2 FTS



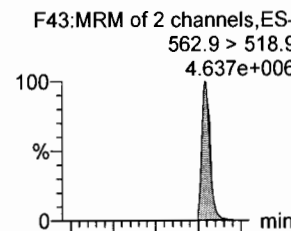
N-MeFOSAA



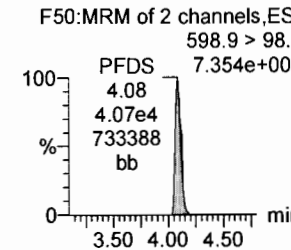
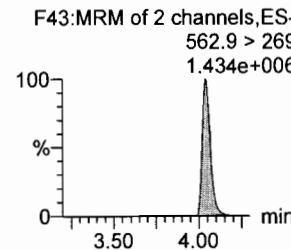
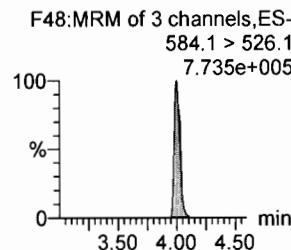
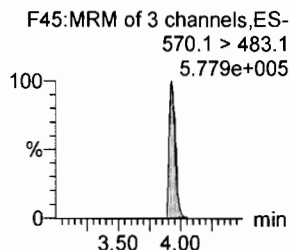
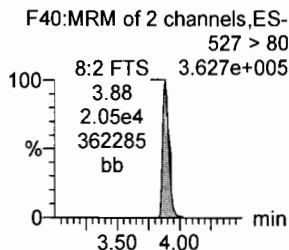
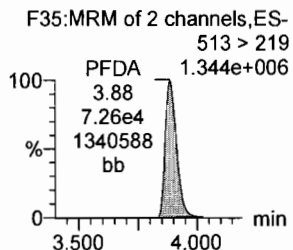
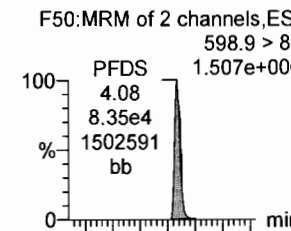
N-EtFOSAA



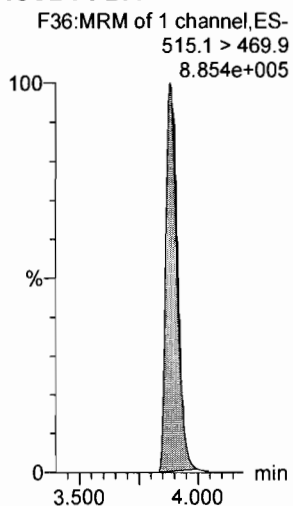
PFUnA



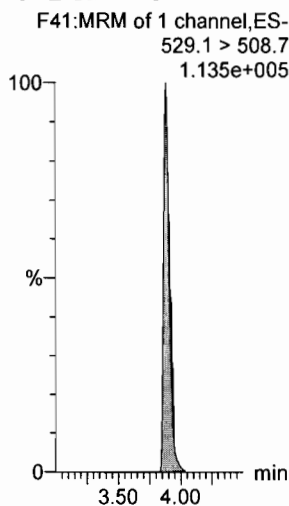
PFDS



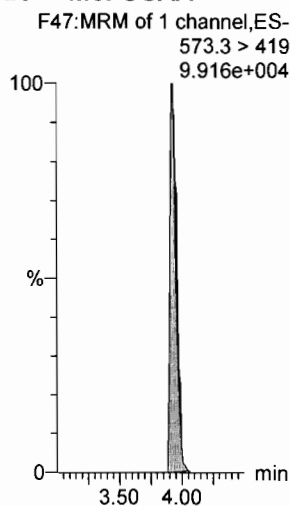
13C2-PFDA



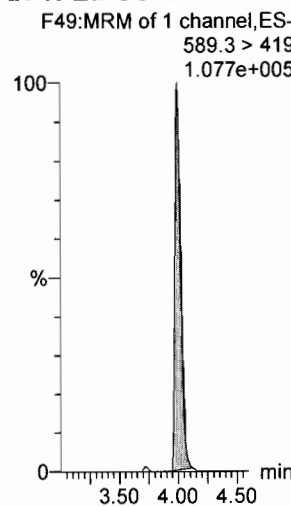
13C2-8:2 FTS



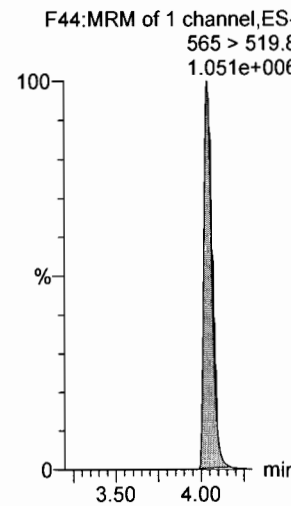
d3-N-MeFOSAA



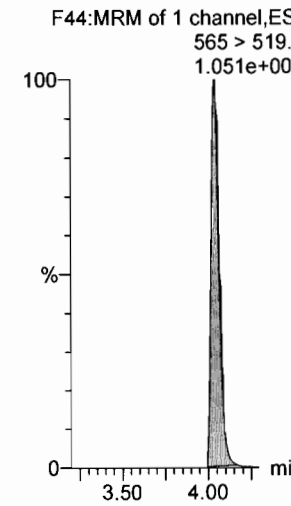
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

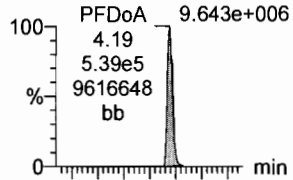
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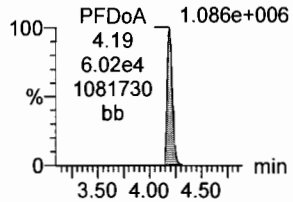
Name: 170928M3_9, Date: 28-Sep-2017, Time: 19:09:47, ID: ST170928M3-8 PFC CS5 1712816, Description: PFC CS5 1712816

PFD_oA

F51:MRM of 4 channels,ES-613.0 > 569.1

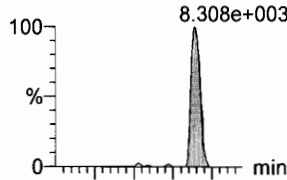


F51:MRM of 4 channels,ES-613.0 > 319.1

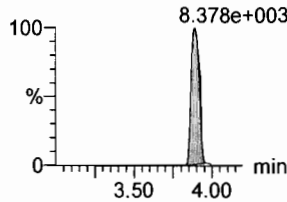


N-MeFOSA

F34:MRM of 2 channels,ES-512.1 > 168.9

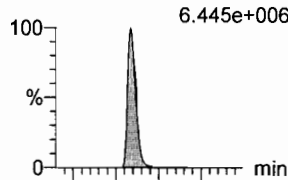


F34:MRM of 2 channels,ES-512.1 > 219

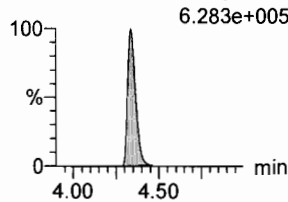


PFT_rDA

F57:MRM of 2 channels,ES-662.9 > 618.9

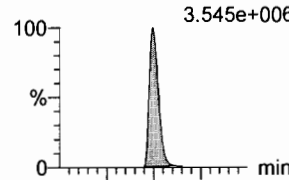


F57:MRM of 2 channels,ES-662.9 > 319

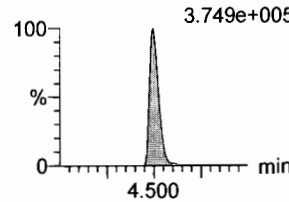


PFT_eDA

F58:MRM of 4 channels,ES-712.9 > 668.8

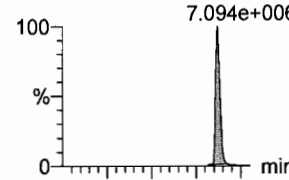


F58:MRM of 4 channels,ES-712.9 > 369

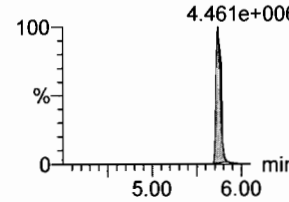


N-EtFOSA

F39:MRM of 2 channels,ES-526.1 > 168.9

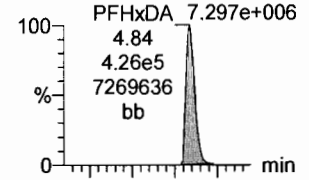


F39:MRM of 2 channels,ES-526.1 > 219

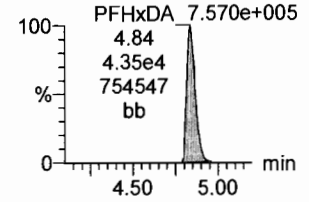


PFH_xDA

F60:MRM of 2 channels,ES-812.8 > 768.9

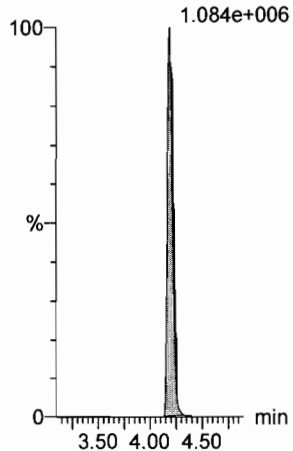


F60:MRM of 2 channels,ES-812.8 > 219



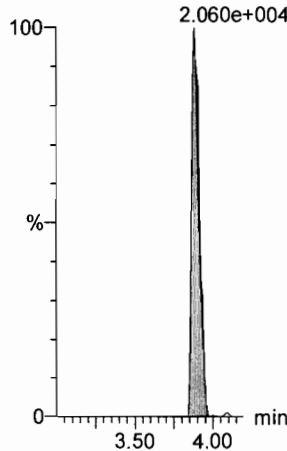
¹³C₂-PFD_oA

F52:MRM of 2 channels,ES-615.1 > 570.1



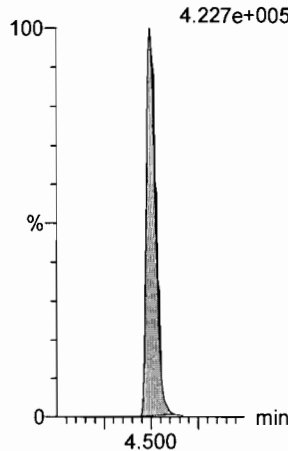
d₃-N-MeFOSA

F37:MRM of 1 channel,ES-515.2 > 168.9



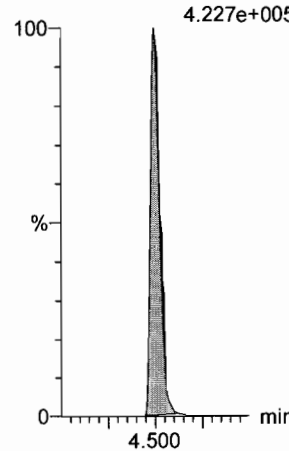
¹³C₂-PFT_eDA

F59:MRM of 2 channels,ES-714.8 > 669.6



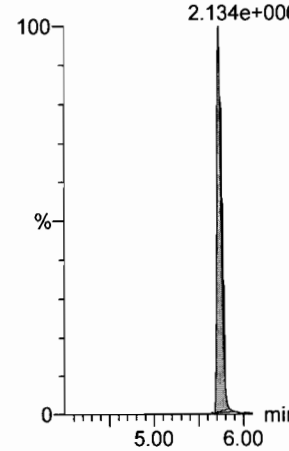
¹³C₂-PFT_rDA

F59:MRM of 2 channels,ES-714.8 > 669.6



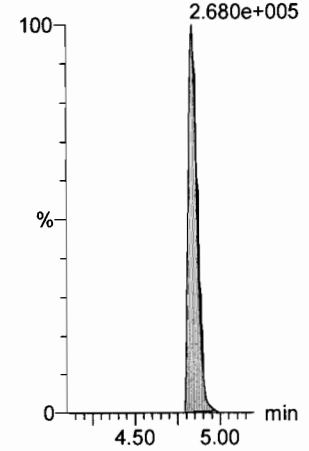
d₅-N-ETFOSA

F42:MRM of 1 channel,ES-531.1 > 168.9



¹³C₂-PFH_xDA

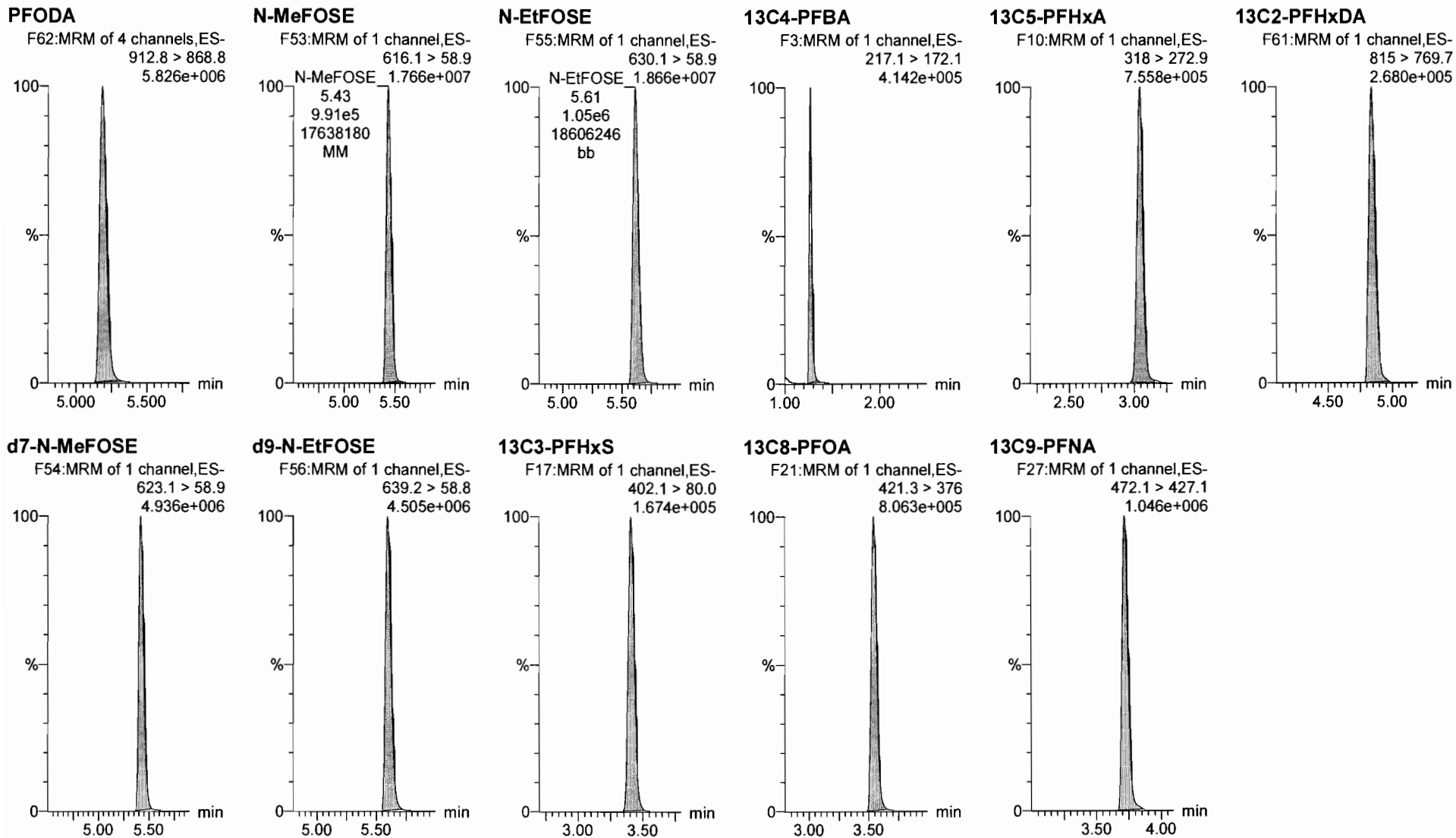
F61:MRM of 1 channel,ES-815 > 769.7



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_9, Date: 28-Sep-2017, Time: 19:09:47, ID: ST170928M3-8 PFC CS5 1712816, Description: PFC CS5 1712816



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

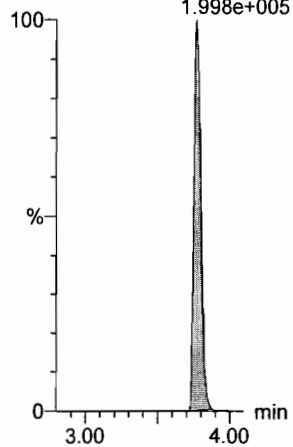
Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_9, Date: 28-Sep-2017, Time: 19:09:47, ID: ST170928M3-8 PFC CS5 17I2816, Description: PFC CS5 17I2816

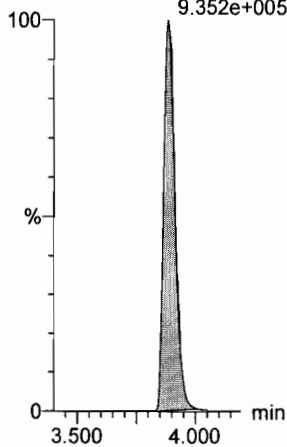
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.998e+005



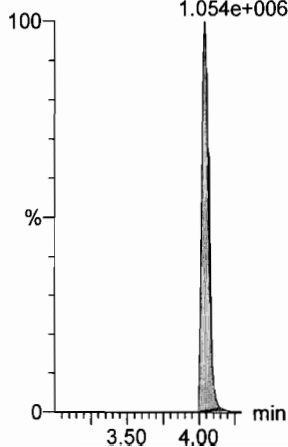
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
9.352e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.054e+006



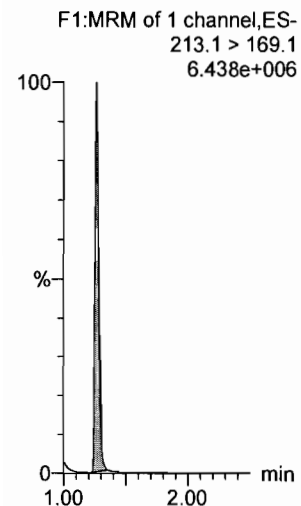
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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

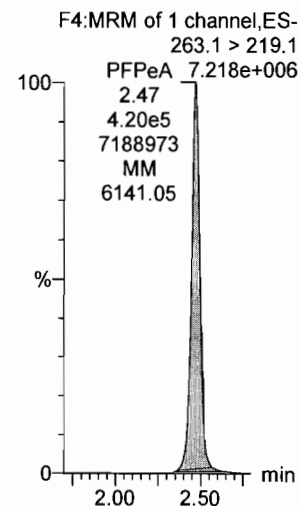
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_10, Date: 28-Sep-2017, Time: 19:20:33, ID: ST170928M3-9 PFC CS6 1712817, Description: PFC CS6 1712817

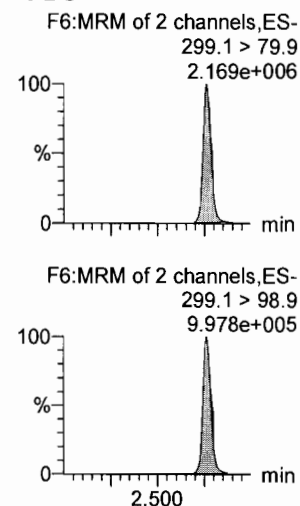
PFBA



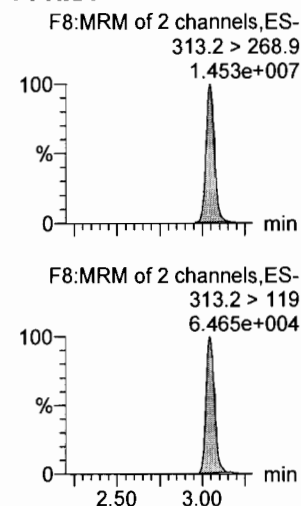
PFPeA



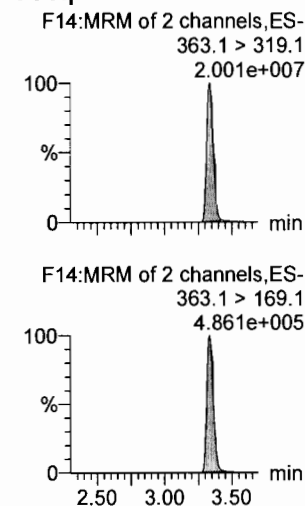
PFBS



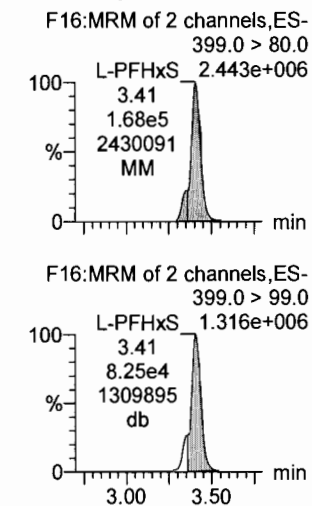
PFHxA



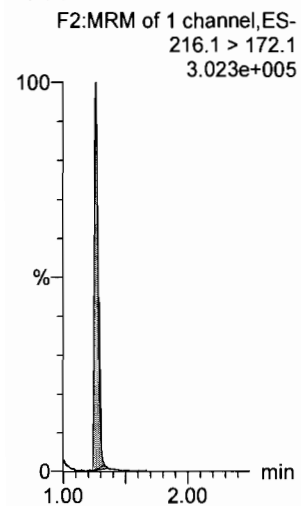
PFHpA



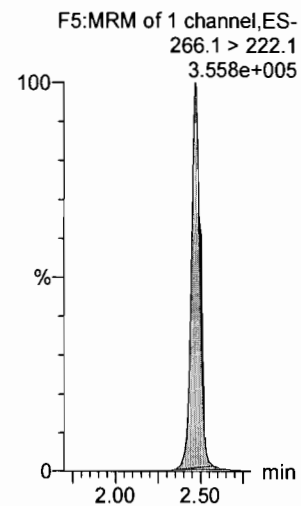
L-PFHxS



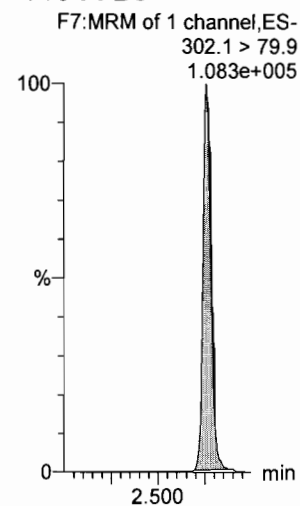
13C3-PFBA



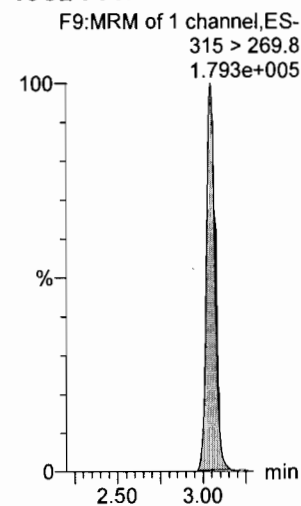
13C3-PFPeA



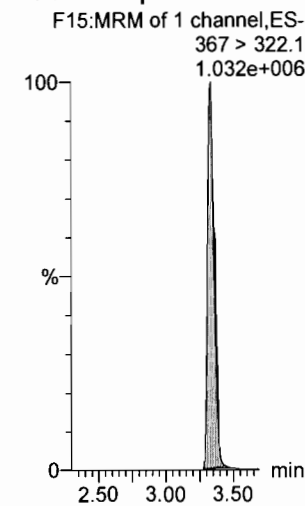
13C3-PFBS



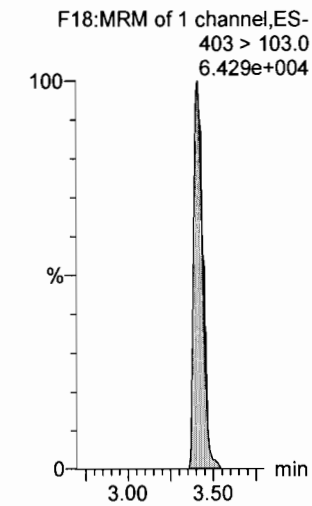
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

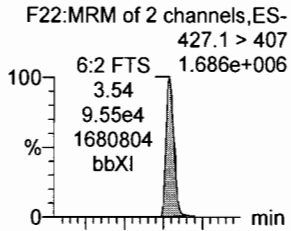


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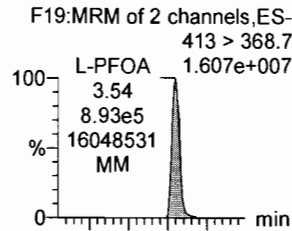
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Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_10, Date: 28-Sep-2017, Time: 19:20:33, ID: ST170928M3-9 PFC CS6 1712817, Description: PFC CS6 1712817

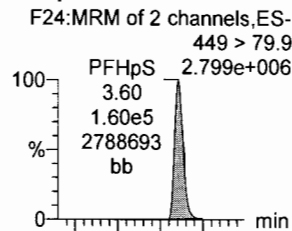
6:2 FTS



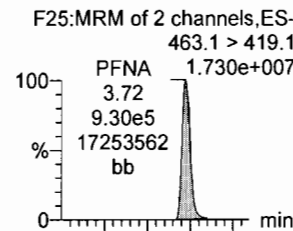
L-PFOA



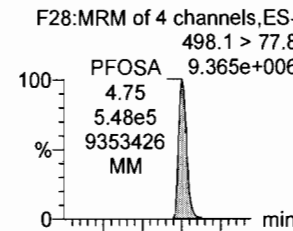
PFHpS



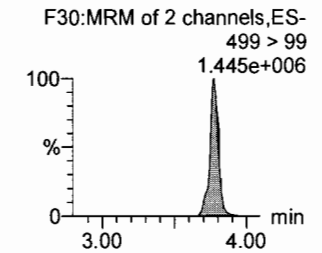
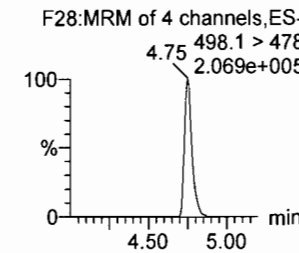
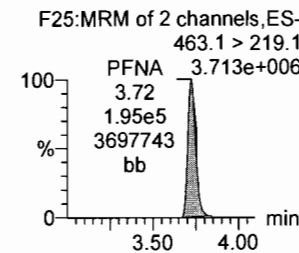
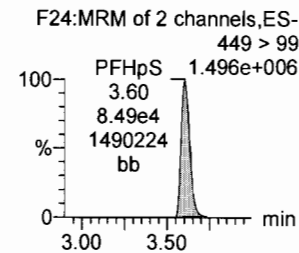
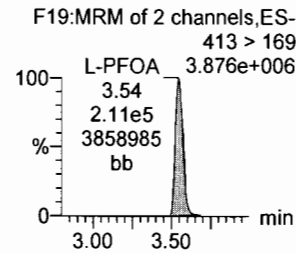
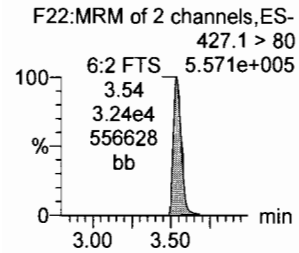
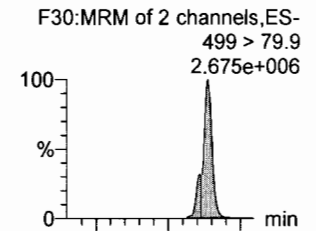
PFNA



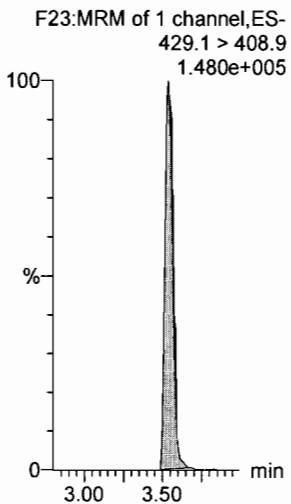
PFOSA



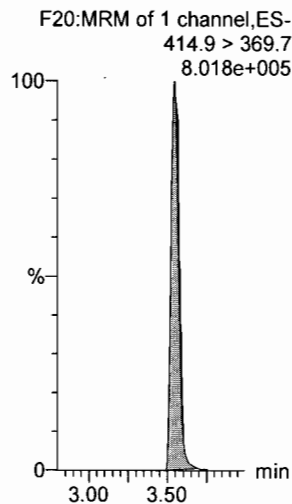
L-PFOS



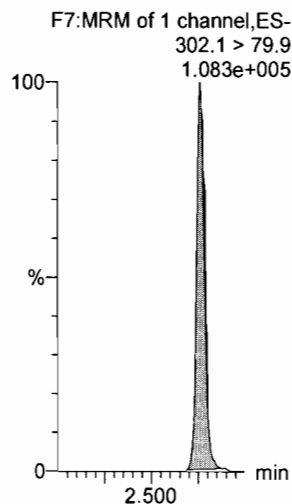
13C2-6:2 FTS



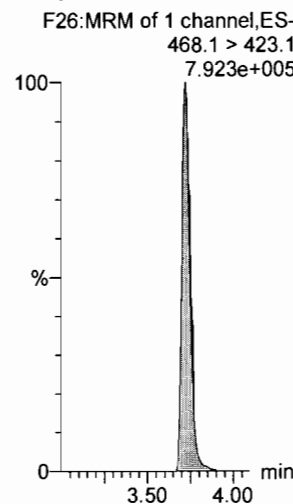
13C2-PFOA



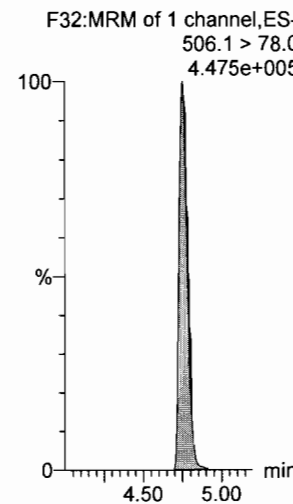
13C3-PFBS



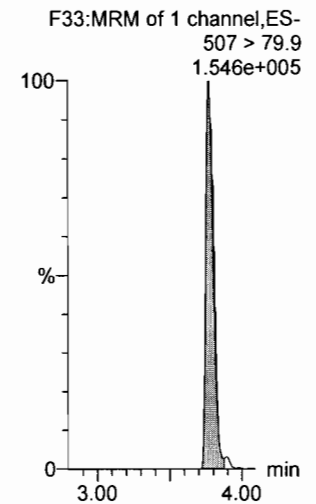
13C5-PFNA



13C8-PFOSA



13C8-PFOS



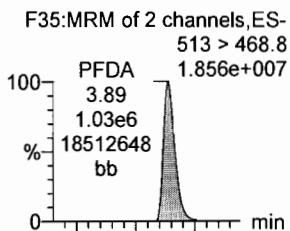
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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

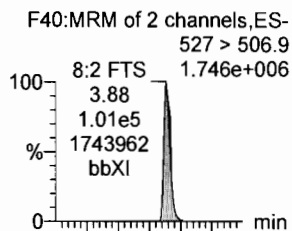
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_10, Date: 28-Sep-2017, Time: 19:20:33, ID: ST170928M3-9 PFC CS6 1712817, Description: PFC CS6 1712817

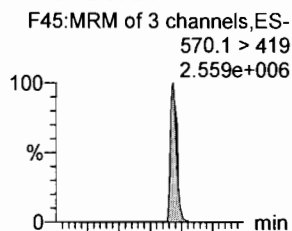
PFDA



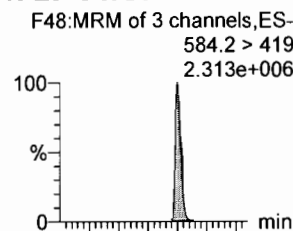
8:2 FTS



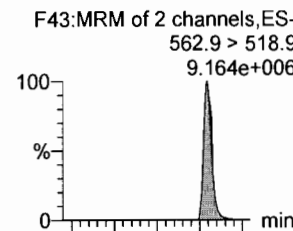
N-MeFOSAA



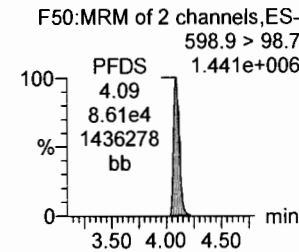
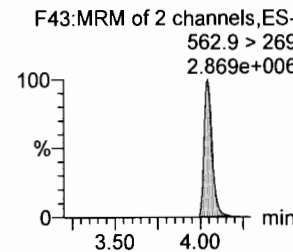
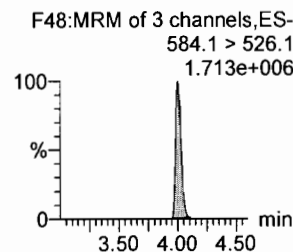
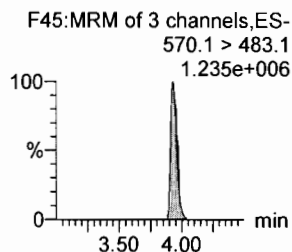
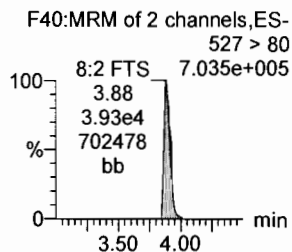
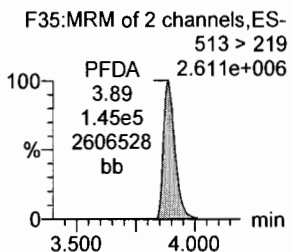
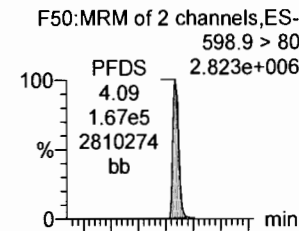
N-EtFOSAA



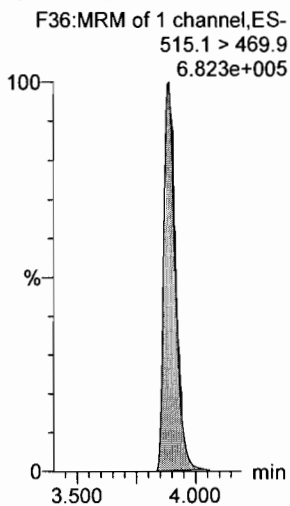
PFUnA



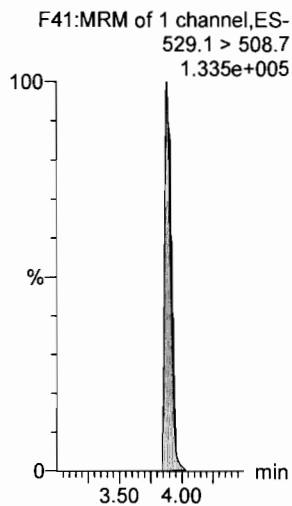
PFDS



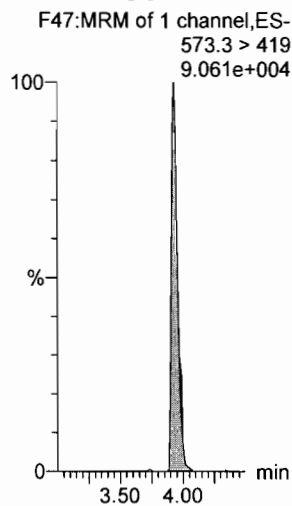
13C2-PFDA



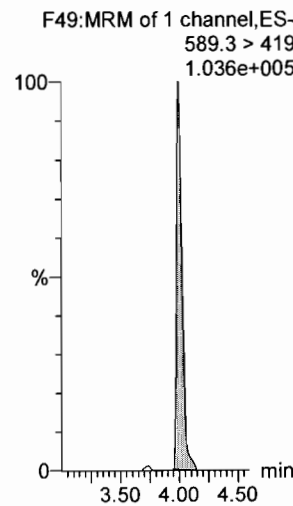
13C2-8:2 FTS



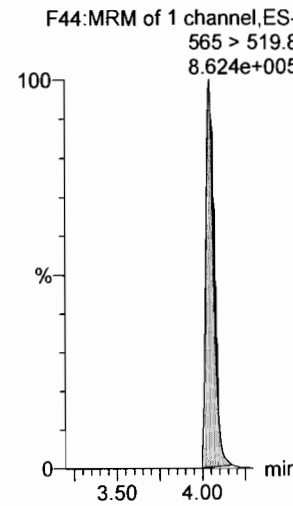
d3-N-MeFOSAA



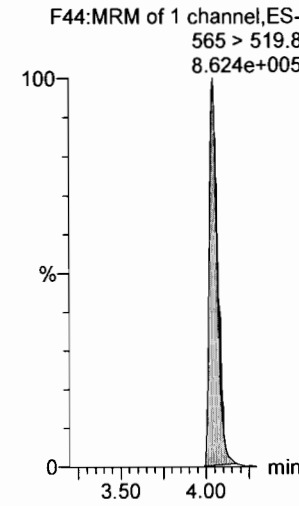
d5-N-EtFOSAA



13C2-PFUnA



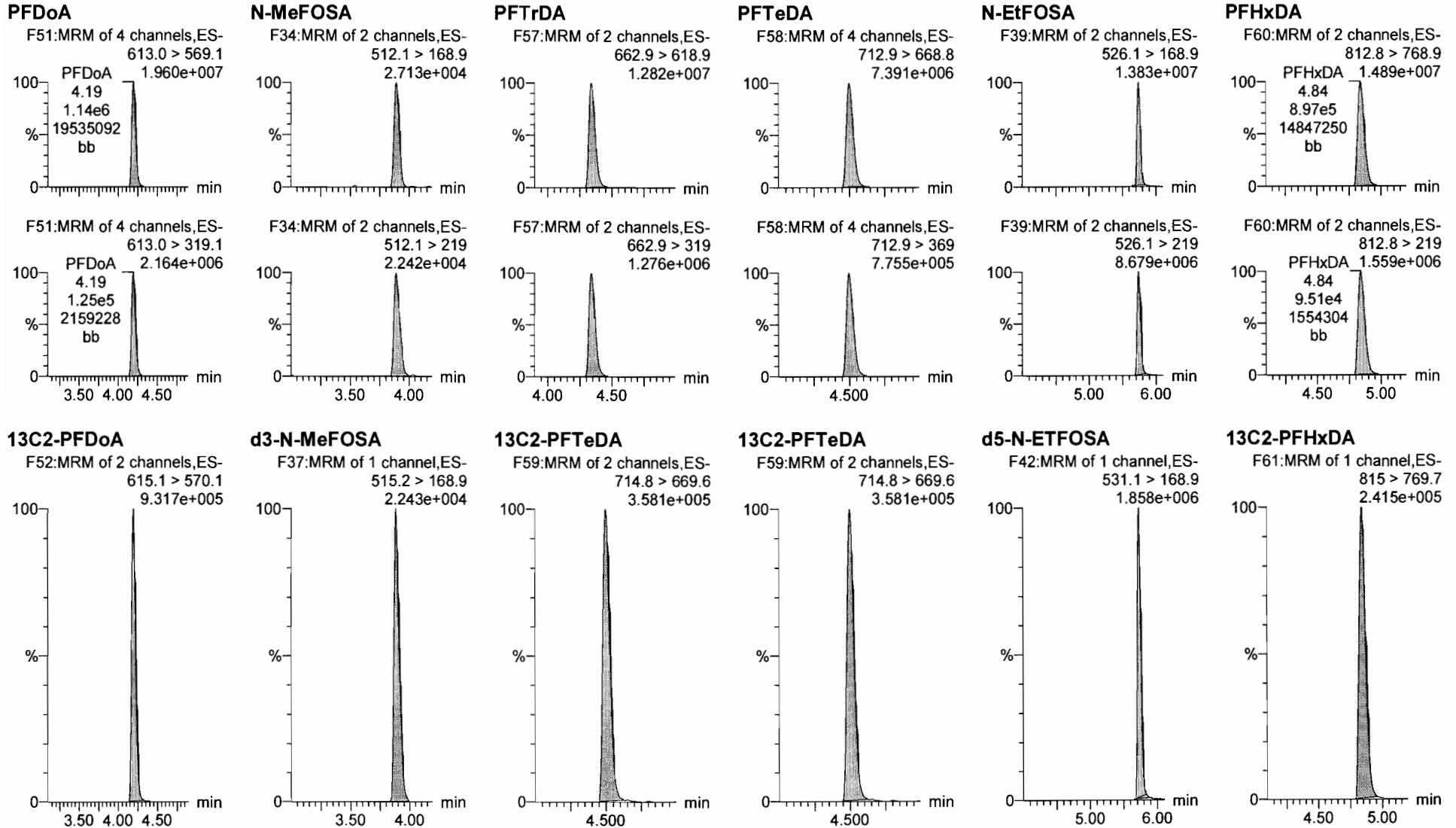
13C2-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time
Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_10, Date: 28-Sep-2017, Time: 19:20:33, ID: ST170928M3-9 PFC CS6 1712817, Description: PFC CS6 1712817

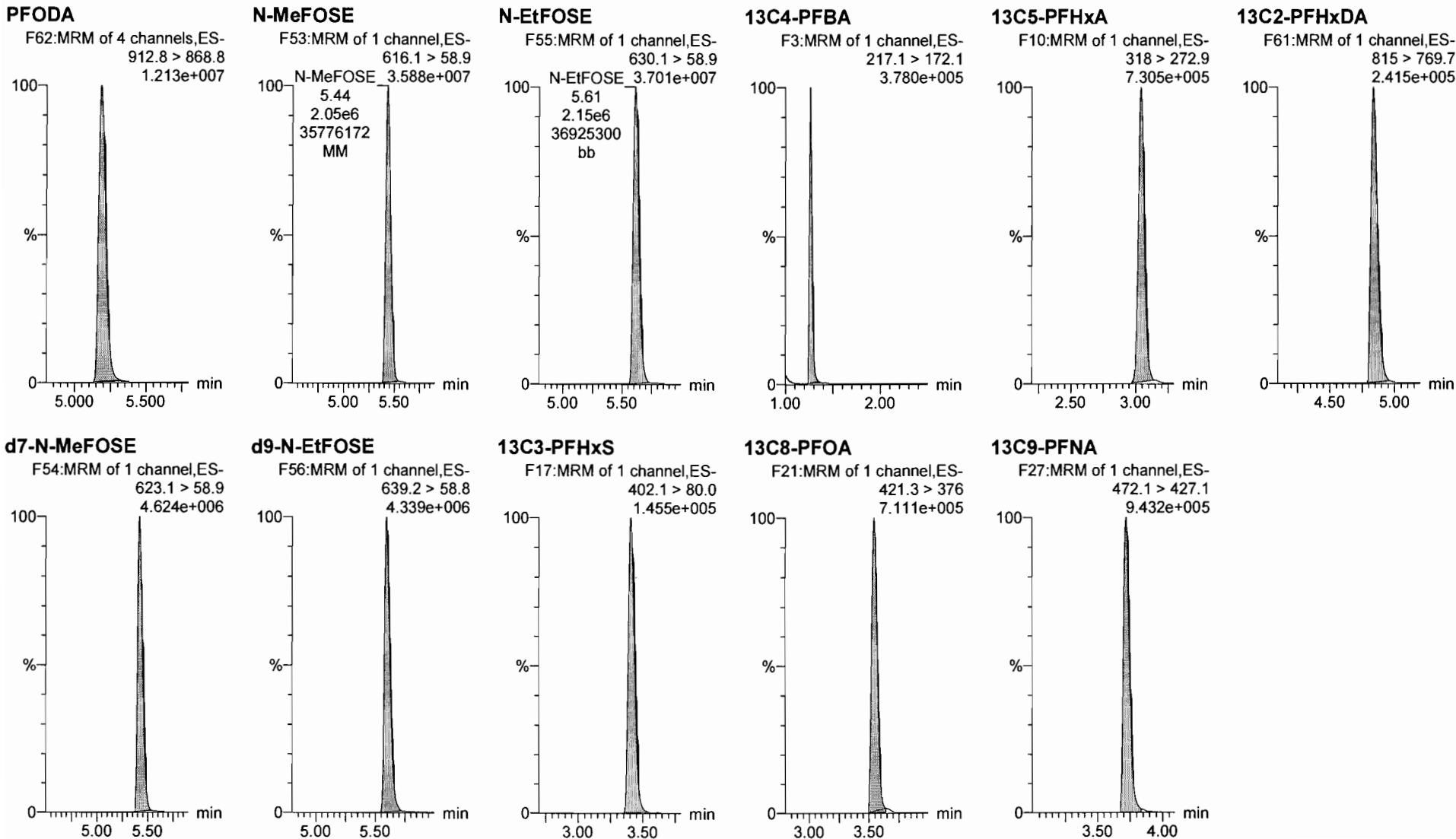


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Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_10, Date: 28-Sep-2017, Time: 19:20:33, ID: ST170928M3-9 PFC CS6 1712817, Description: PFC CS6 1712817



Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

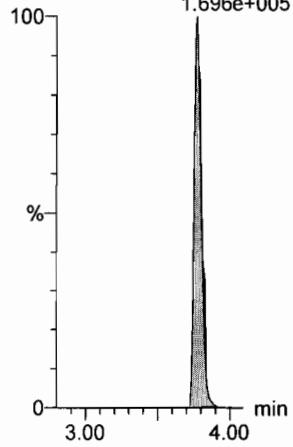
Last Altered: Friday, September 29, 2017 09:20:39 Pacific Daylight Time

Printed: Friday, September 29, 2017 09:21:32 Pacific Daylight Time

Name: 170928M3_10, Date: 28-Sep-2017, Time: 19:20:33, ID: ST170928M3-9 PFC CS6 1712817, Description: PFC CS6 1712817

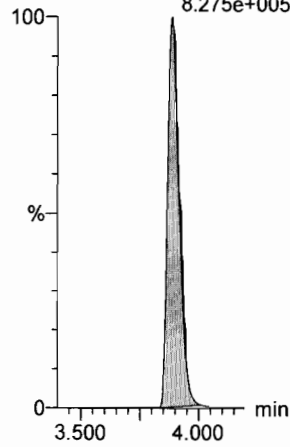
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.696e+005



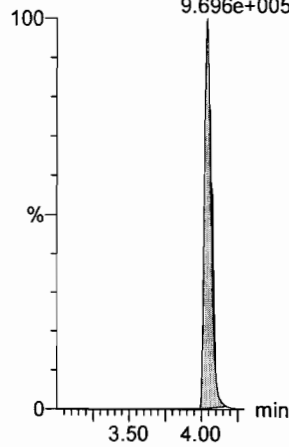
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
8.275e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
9.696e+005



Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

Last Altered: Friday, September 29, 2017 10:06:08 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

ⓐ Not in ICV.

Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.28e4	1.38e4		1.27	1.26	11.7	10.3	102.8
2	2 PFPeA	263.1 > 219.1	2.24e4	2.58e4		2.46	2.48	10.9	10.3	103.2
3	3 PFBS	299.1 > 79.9	4.87e3	6.42e3		2.76	2.76	9.49	9.15	91.5
4	4 PFHxA	313.2 > 268.9	4.27e4	1.23e4		3.04	3.05	17.3	10.8	108.5
5	5 PFHpA	363.1 > 319.1	6.85e4	8.18e4		3.33	3.33	10.5	10.6	105.7
6	6 L-PFHxS	399.0 > 80.0	8.44e3	4.86e3		3.41	3.41	21.7	9.08	90.8
7	8 6:2 FTS	427.1 > 407	6.45e3	7.06e3		3.54	3.54	11.4	9.45	94.5
8	9 L-PFOA	413 > 368.7	5.31e4	6.32e4		3.54	3.55	10.5	10.1	101.0
9	11 PFHpS	449 > 79.9	8.60e3	6.32e4		3.60	3.60	1.70	9.38	93.8
10	12 PFNA	463.1 > 419.1	5.64e4	6.04e4		3.72	3.72	11.7	10.4	104.2
11	13 PFOSA	498.1 > 77.8	2.81e4	3.14e4		4.75	4.75	11.2	10.4	104.4
12	14 L-PFOS	499 > 79.9	1.01e4	1.18e4		3.77	3.77	10.7	9.28	92.8
13	16 PFDA	513 > 468.8	6.32e4	5.18e4		3.89	3.89	15.2	10.8	108.0
14	17 8:2 FTS	527 > 506.9	6.35e3	5.47e3		3.88	3.88	14.5	9.59	95.9
15	18 N-MeFOSAA	570.1 > 419	7.65e3	5.39e3		3.92	3.93	231	11.0	109.7
16	19 N-EtFOSAA	584.2 > 419	6.14e3	6.28e3		3.99	4.00	159	9.57	95.7
17	20 PFUnA	562.9 > 518.9	3.07e4	6.35e4		4.04	4.04	6.04	10.2	101.9
18	21 PFDS	598.9 > 80	9.62e3	6.35e4		4.08	4.08	1.89	9.73	97.3
19	22 PFDoA	613.0 > 569.1	6.21e4	6.53e4		4.19	4.19	11.9	9.81	98.1
20	24 PFTrDA	662.9 > 618.9	4.07e4	6.53e4		4.34	4.34	7.79	11.0	110.3
21	25 PFTeDA	712.9 > 668.8	2.19e4	2.37e4		4.49	4.50	11.6	10.3	102.9
22	26 N-EtFOSA	526.1 > 168.9		1.34e5		5.73				
23	27 PFHxDA	812.8 > 768.9		1.58e4		4.83				
24	28 PFODA	912.8 > 868.8		1.58e4		5.18				
25	29 N-MeFOSE	616.1 > 58.9		3.03e5		5.43				
26	30 N-EtFOSE	630.1 > 58.9		2.82e5		5.60				
27	31 13C3-PFBA	216.1 > 172.1	1.38e4	1.52e4	0.860	1.27	1.26	11.3	13.2	105.3
28	32 13C3-PFPeA	266.1 > 222.1	2.58e4	4.30e4	0.227	2.46	2.48	3.01	13.2	105.9
29	33 13C3-PFBS	302.1 > 79.9	6.42e3	4.30e4	0.056	2.76	2.76	0.747	13.4	107.2
30	34 13C2-PFHxA	315 > 269.8	1.23e4	4.30e4	0.279	3.04	3.05	1.43	5.14	102.9
31	Work Order 170928M3-13	367 > 322.1	8.18e4	4.30e4	0.719	3.33	3.33	9.53	13.3	106.1

70-130

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

Last Altered: Friday, September 29, 2017 10:06:08 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	36 18O2-PFHxS	403 > 103.0	4.86e3	9.98e3	0.477	3.41	3.41	6.09	12.8	102.1
33	37 13C2-6:2 FTS	429.1 > 408.9	7.06e3	5.12e4	0.129	3.54	3.54	1.72	13.3	106.4
34	38 13C2-PFOA	414.9 > 369.7	6.32e4	5.12e4	1.167	3.54	3.54	15.4	13.2	105.7
35	39 13C5-PFNA	468.1 > 423.1	6.04e4	6.55e4	0.856	3.72	3.72	11.5	13.5	107.8
36	40 13C8-PFOSA	506.1 > 78.0	3.14e4	6.58e4	0.467	4.75	4.75	5.97	12.8	102.4
37	41 13C8-PFOS	507 > 79.9	1.18e4	1.11e4	0.983	3.77	3.78	13.3	13.5	108.0
38	42 13C2-PFDA	515.1 > 469.9	5.18e4	5.76e4	0.859	3.89	3.89	11.2	13.1	104.7
39	43 13C2-8:2 FTS	529.1 > 508.7	5.47e3	5.76e4	0.091	3.88	3.88	1.19	13.0	103.7
40	44 d3-N-MeFOSAA	573.3 > 419	5.39e3	6.58e4	0.007	3.92	3.93	1.02	157	96.6
41	45 d5-N-EtFOSAA	589.3 > 419	6.28e3	6.58e4	0.007	3.99	4.00	1.19	168	103.2
42	46 13C2-PFUnA	565 > 519.8	6.35e4	6.58e4	0.938	4.04	4.04	12.1	12.9	102.9
43	47 13C2-PFDoA	615.1 > 570.1	6.53e4	6.58e4	0.966	4.19	4.19	12.4	12.8	102.8

50-150
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Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

Last Altered: Friday, September 29, 2017 10:06:08 Pacific Daylight Time
Printed: Friday, September 29, 2017 10:07:31 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.37e4	6.58e4	0.362	4.49	4.50	4.49	12.4	99.2
2	50 d5-N-ETFOSA	531.1 > 168.9	1.34e5	6.58e4	0.169	5.73	5.73	25.6	151	100.8
3	51 13C2-PFHxDA	815 > 769.7	1.58e4	6.58e4	0.596	4.83	4.84	3.00	5.04	100.8
4	52 d7-N-MeFOSE	623.1 > 58.9	3.03e5	6.58e4	0.379	5.43	5.42	57.5	152	101.0
5	53 d9-N-EtFOSE	639.2 > 58.8	2.82e5	6.58e4	0.351	5.60	5.60	53.7	153	101.8
6	54 13C4-PFBA	217.1 > 172.1	1.52e4	1.52e4	1.000	1.27	1.26	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	4.30e4	4.30e4	1.000	3.04	3.05	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	9.98e3	9.98e3	1.000	3.41	3.41	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	5.12e4	5.12e4	1.000	3.54	3.54	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	6.55e4	6.55e4	1.000	3.72	3.72	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.11e4	1.11e4	1.000	3.77	3.78	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	5.76e4	5.76e4	1.000	3.89	3.89	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	6.58e4	6.58e4	1.000	4.04	4.04	12.5	12.5	100.0

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

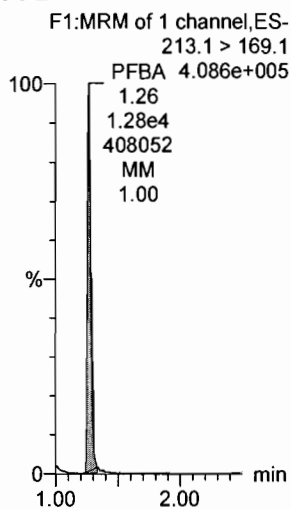
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Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

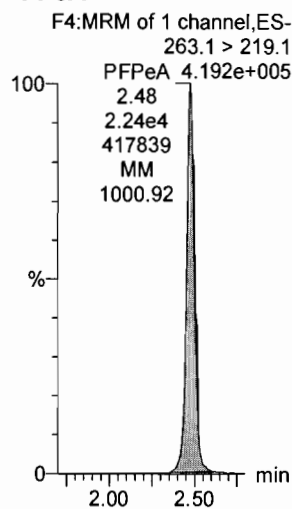
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Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

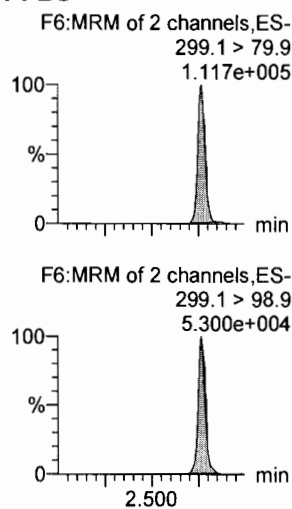
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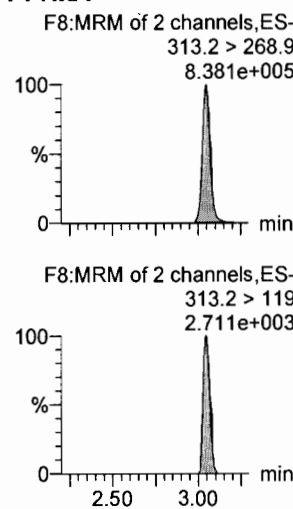
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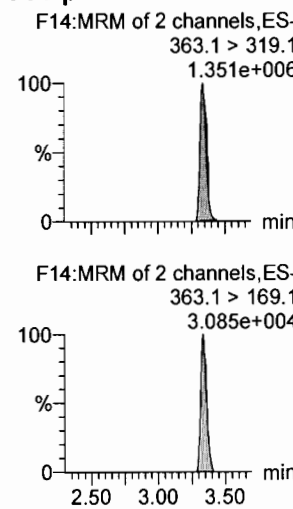
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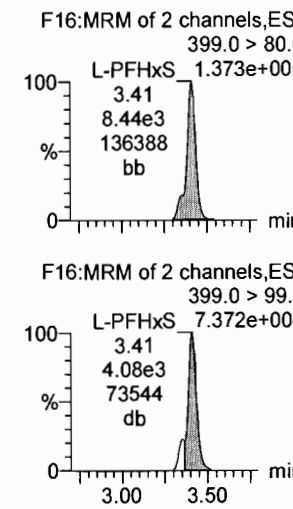
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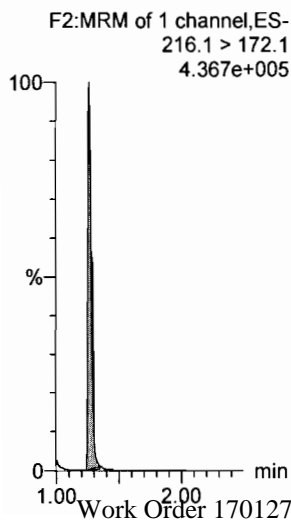
PFHpA



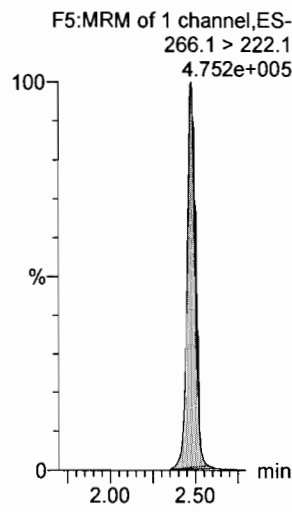
L-PFHxS



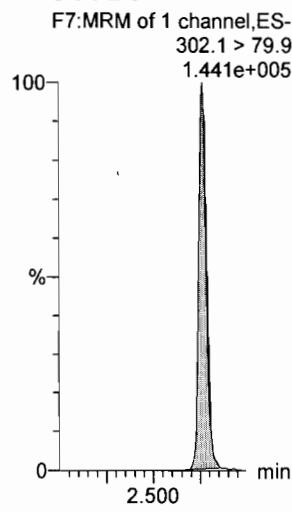
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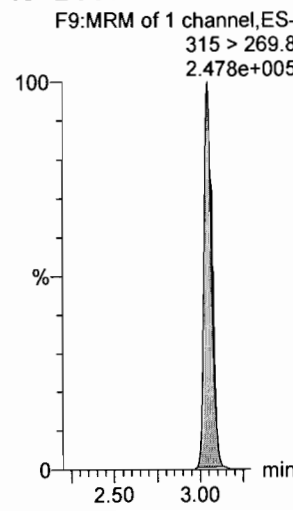
13C3-PFPeA



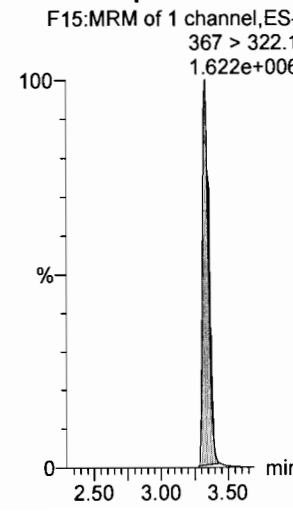
13C3-PFBS



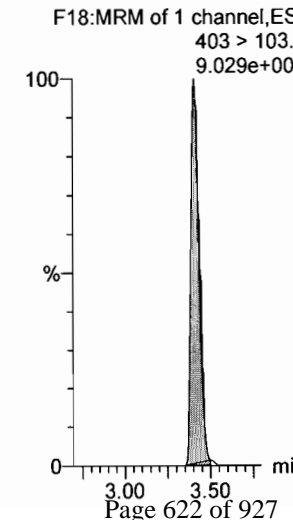
13C2-PFHxA



13C4-PFHpA



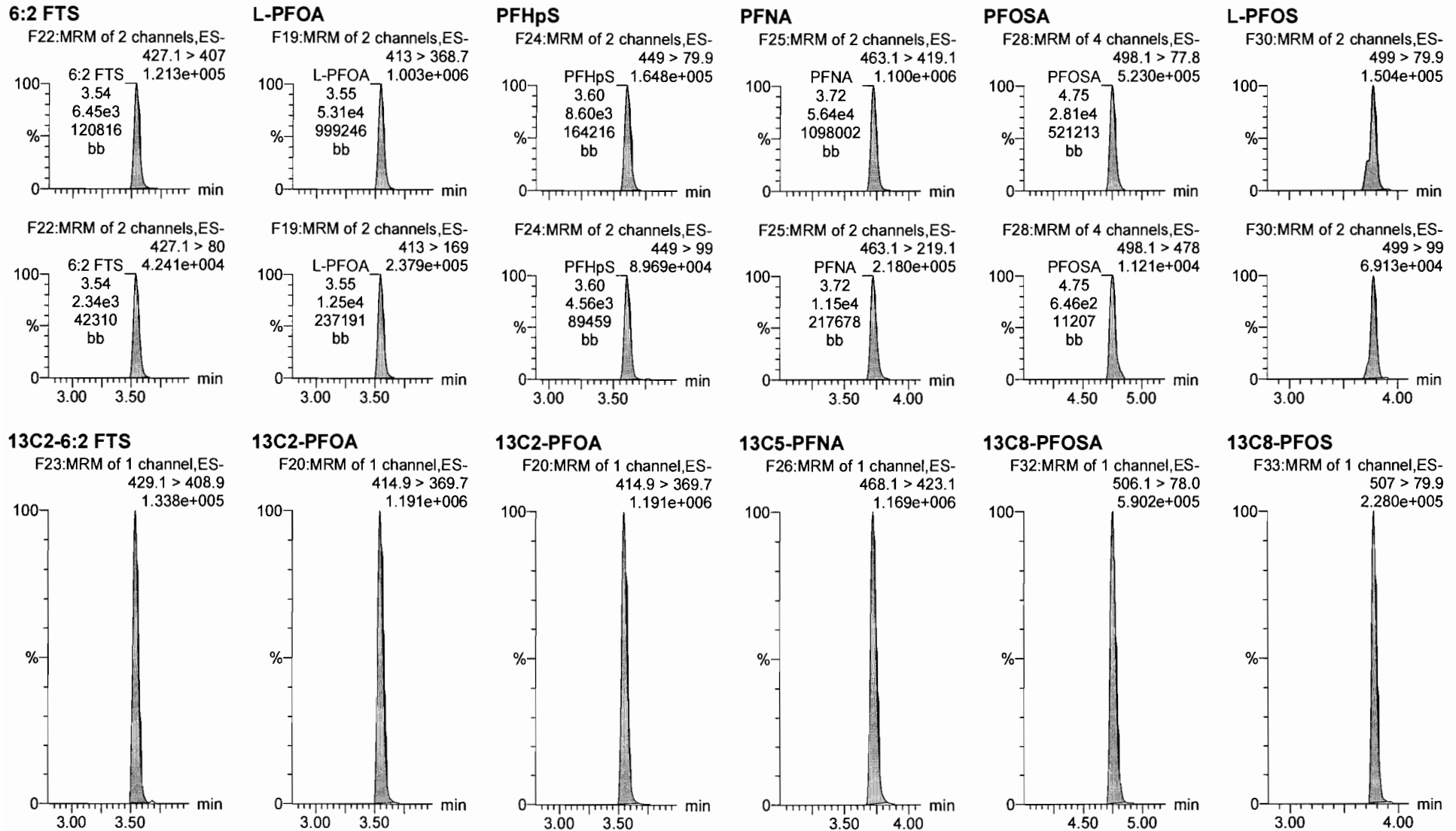
18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

Last Altered: Friday, September 29, 2017 10:06:08 Pacific Daylight Time
Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

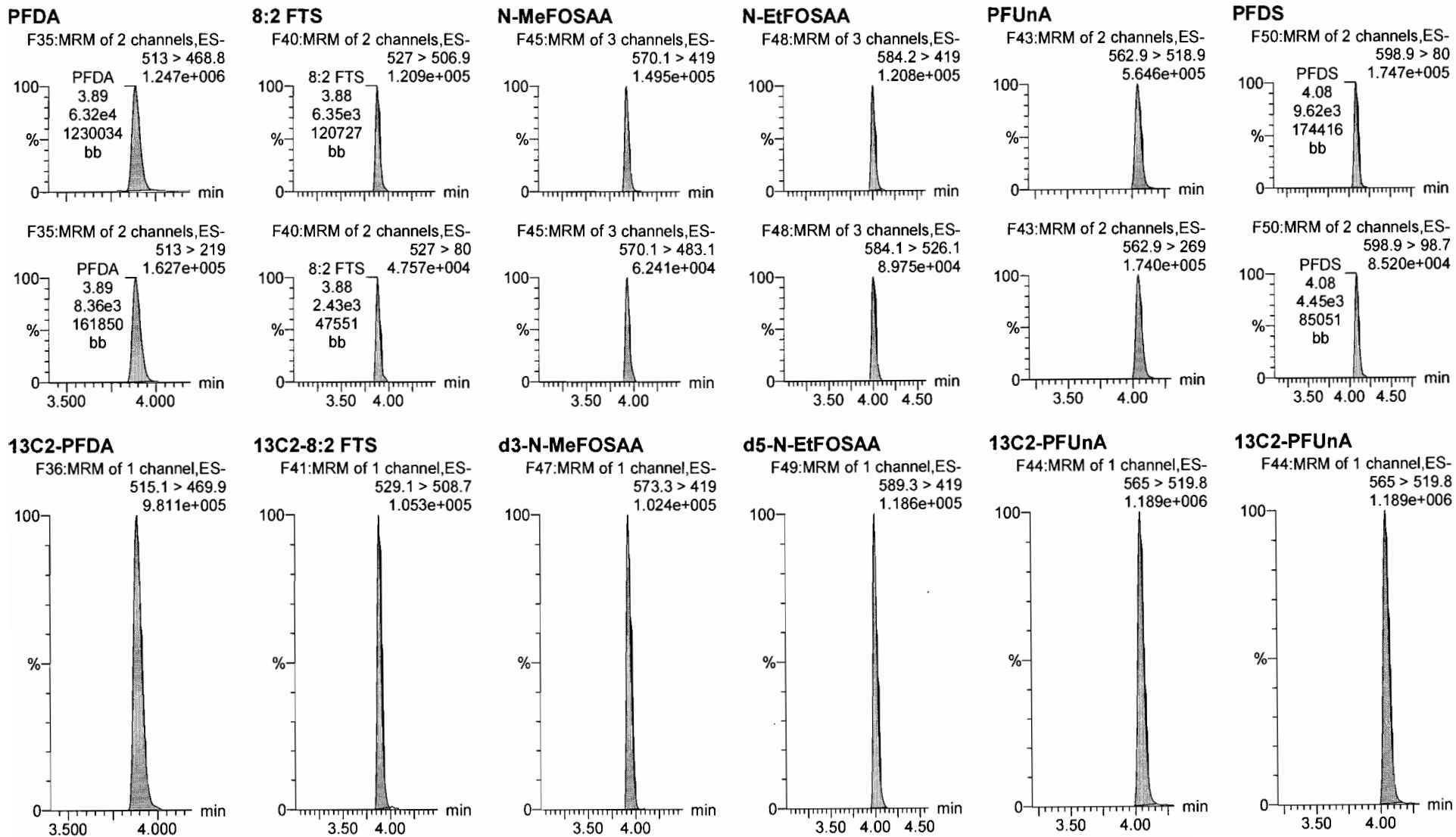
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Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

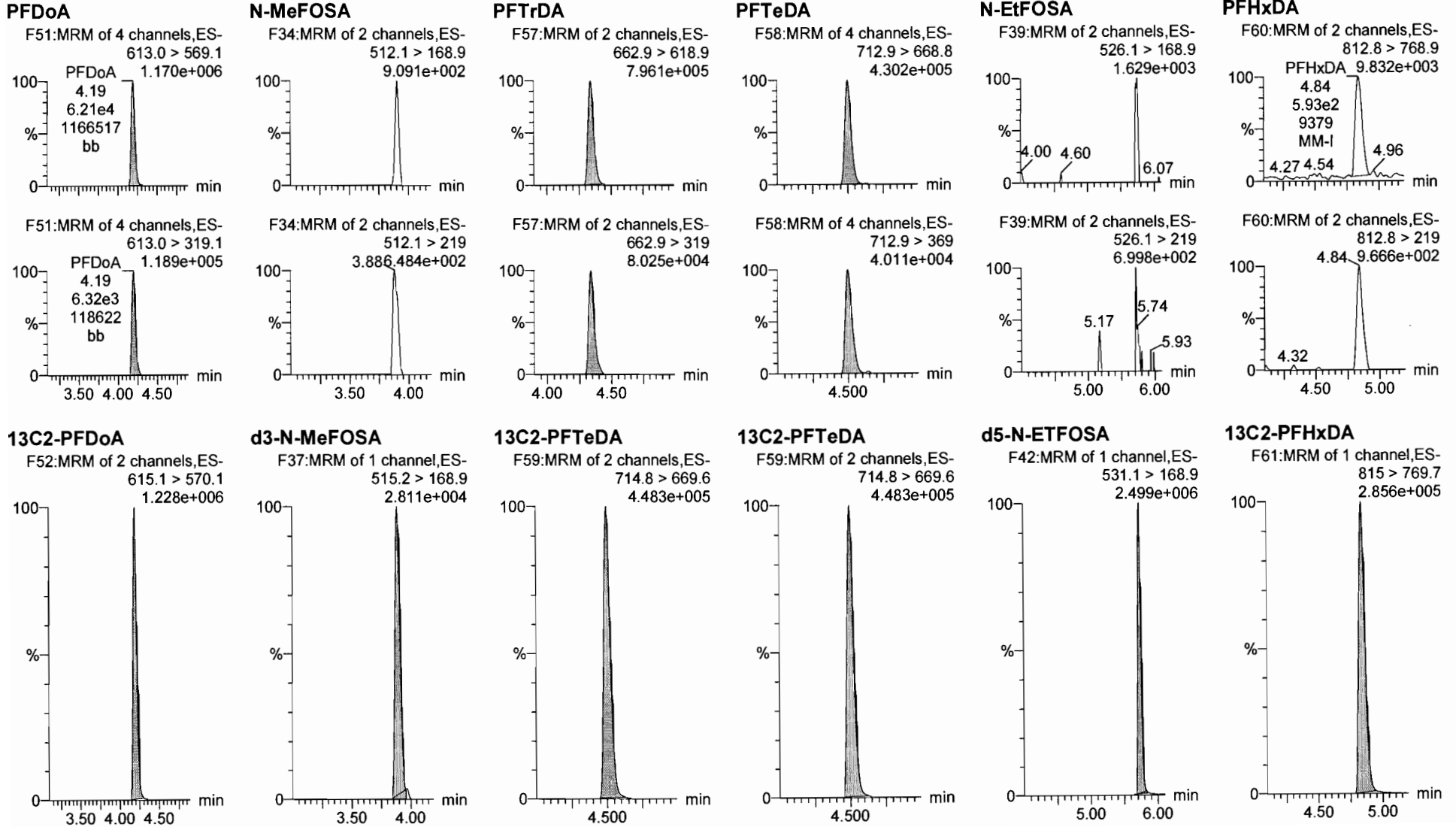
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Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

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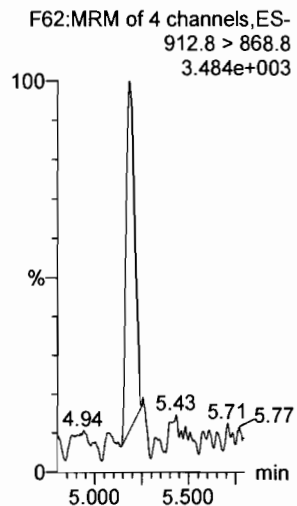


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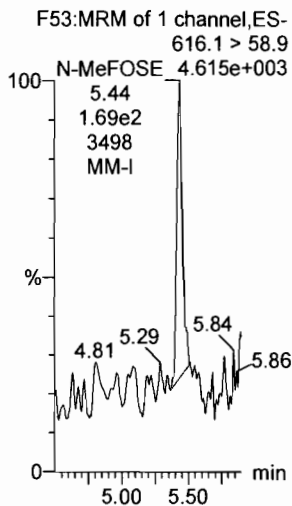
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Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

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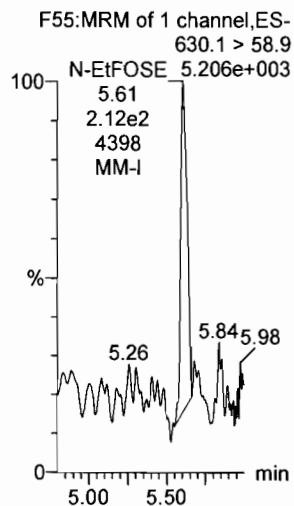
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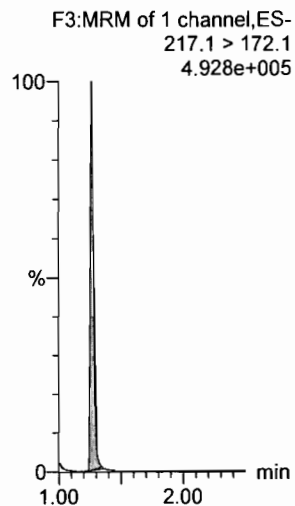
N-MeFOSE



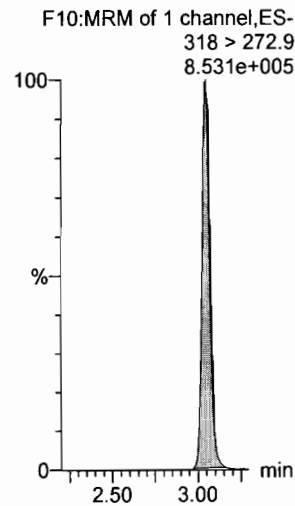
N-EtFOSE



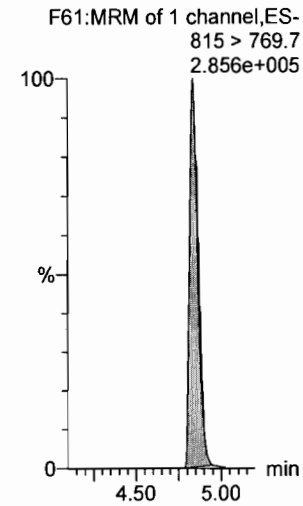
13C4-PFBA



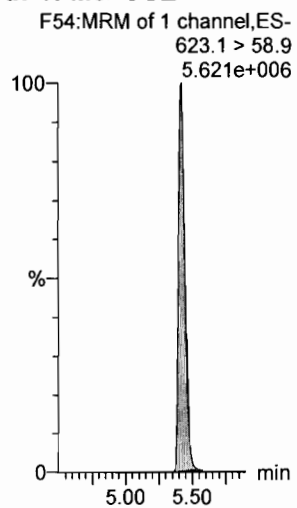
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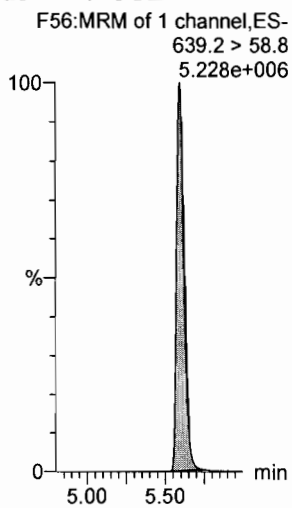
13C2-PFHxDA



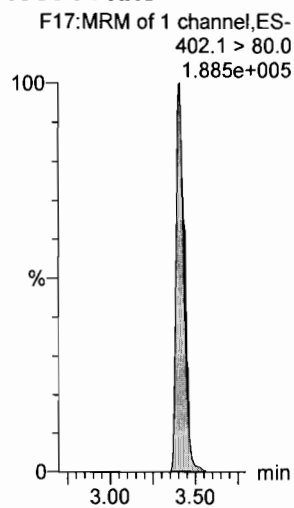
d7-N-MeFOSE



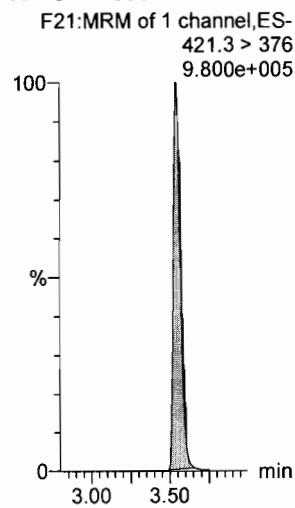
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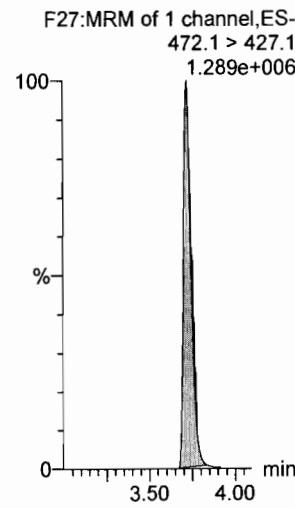
13C3-PFHxS



13C8-PFOA



13C9-PFNA



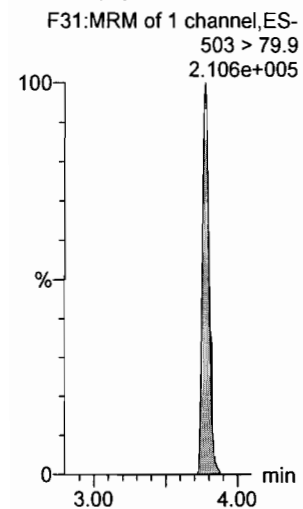
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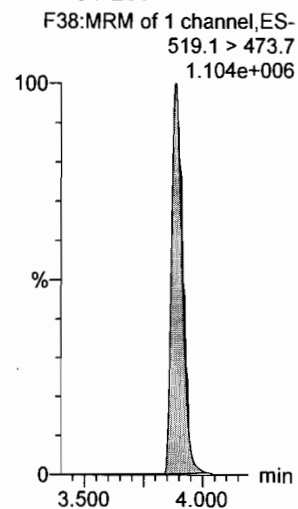
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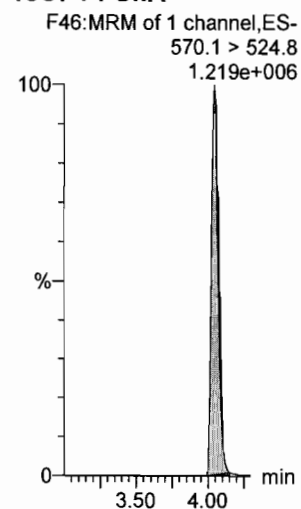
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

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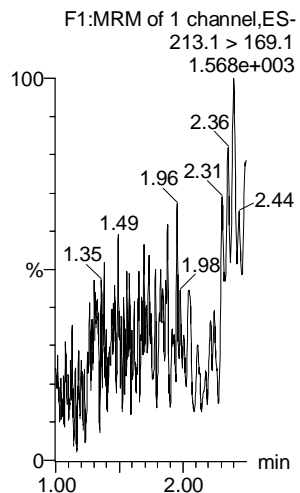
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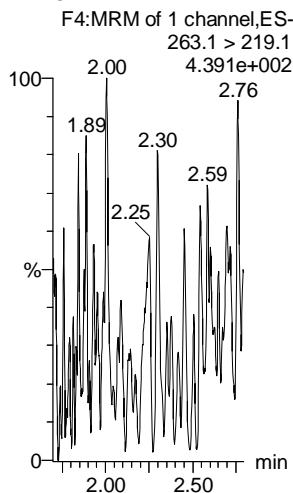
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Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

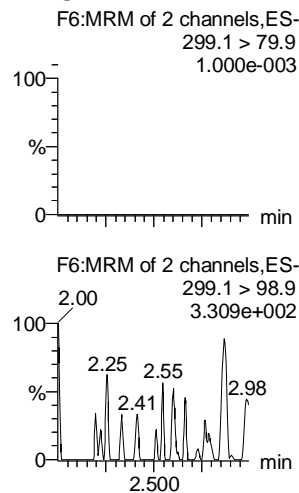
PFBA



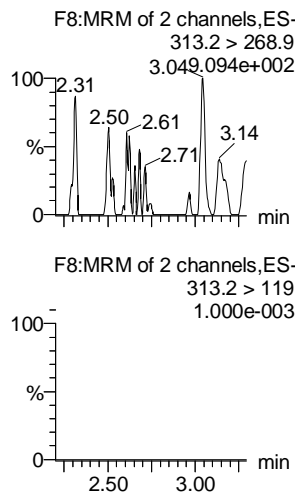
PFPeA



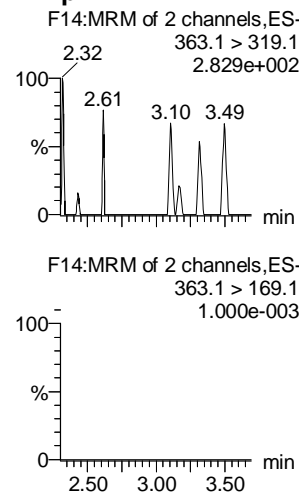
PFBS



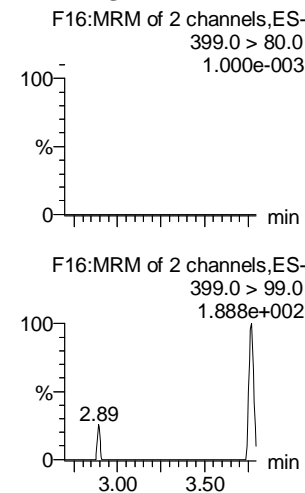
PFHxA



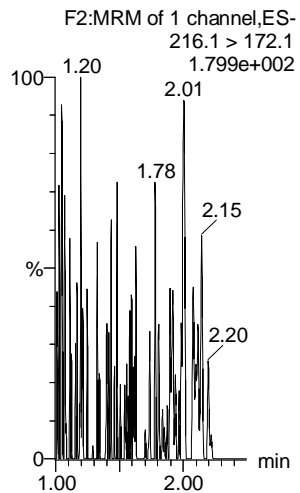
PFHpA



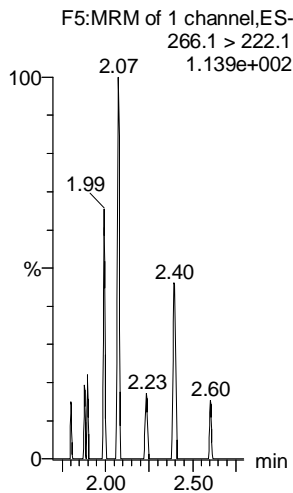
L-PFHxS



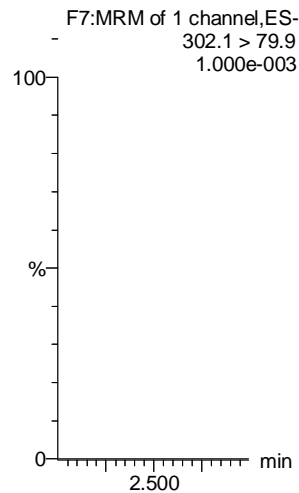
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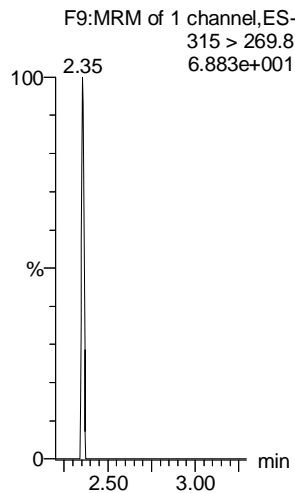
13C3-PFPeA



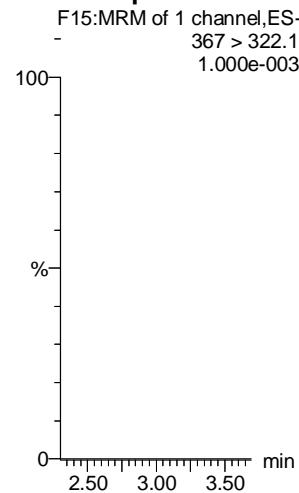
13C3-PFBS



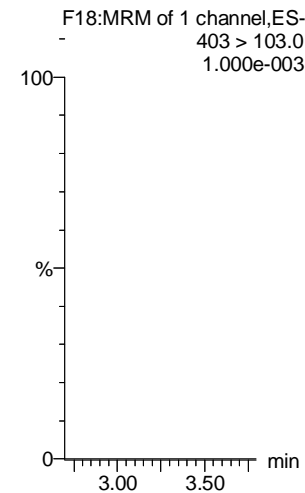
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

Last Altered: Friday, September 29, 2017 10:10:18 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:10:36 Pacific Daylight Time

Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

6:2 FTS

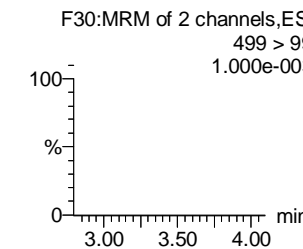
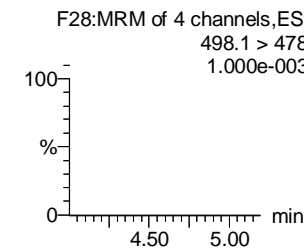
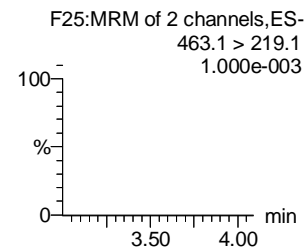
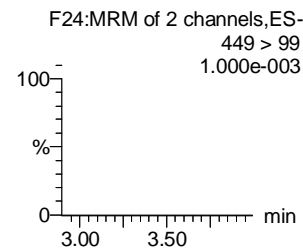
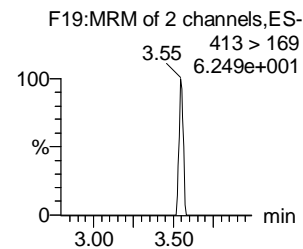
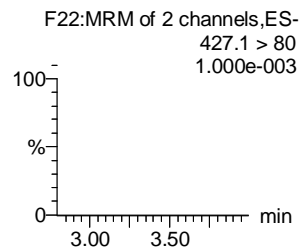
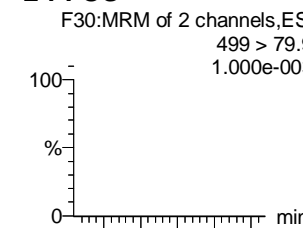
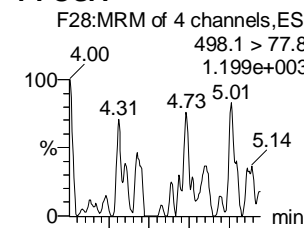
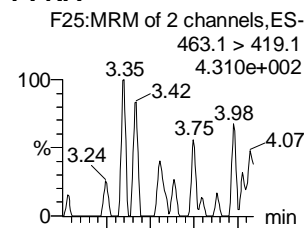
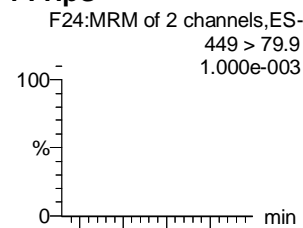
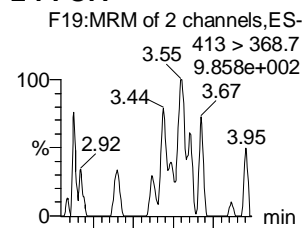
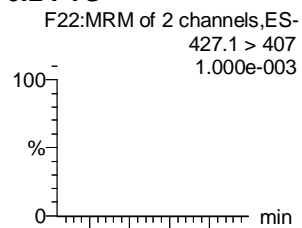
L-PFOA

PFHpS

PFNA

PFOSA

L-PFOS



13C2-6:2 FTS

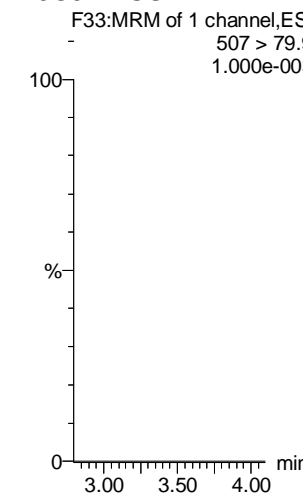
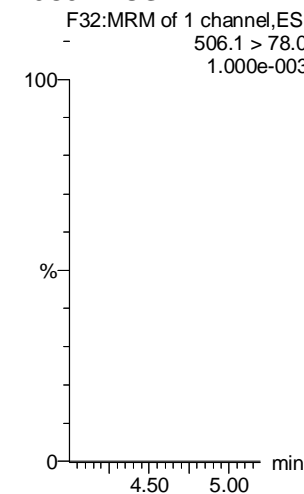
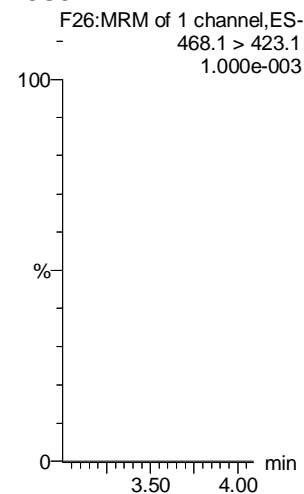
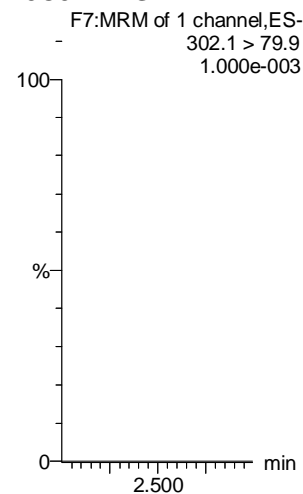
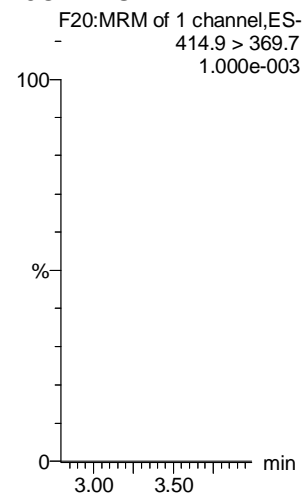
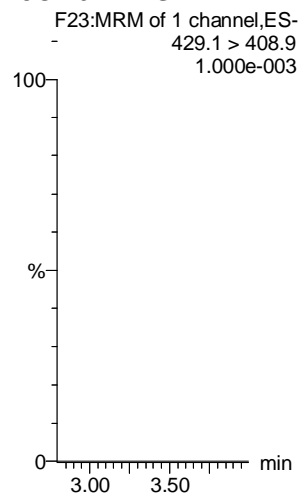
13C2-PFOA

13C3-PFBS

13C5-PFNA

13C8-PFOSA

13C8-PFOS



Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

Last Altered: Friday, September 29, 2017 10:10:18 Pacific Daylight Time

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Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

PFDA

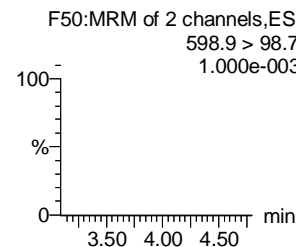
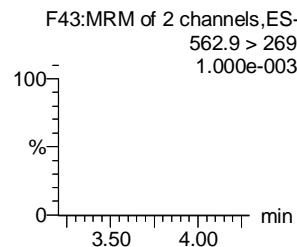
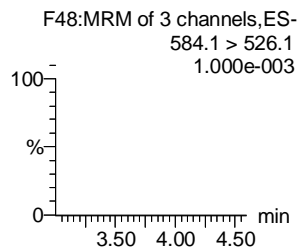
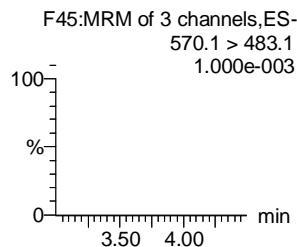
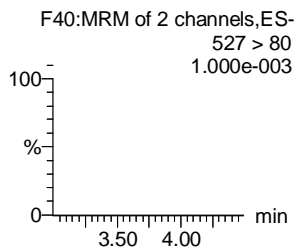
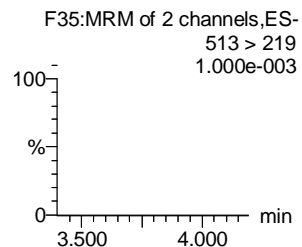
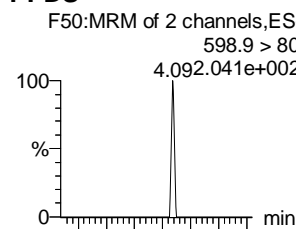
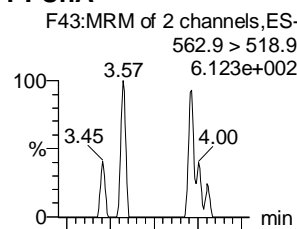
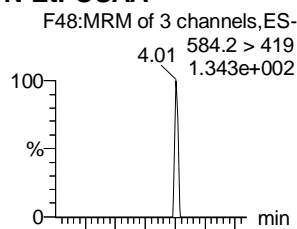
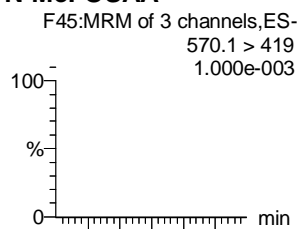
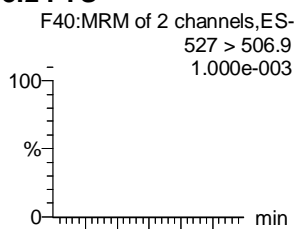
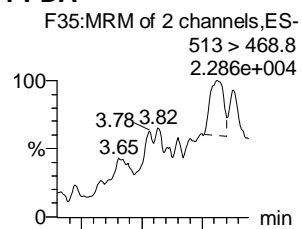
8:2 FTS

N-MeFOSAA

N-EtFOSAA

PFUnA

PFDS



13C2-PFDA

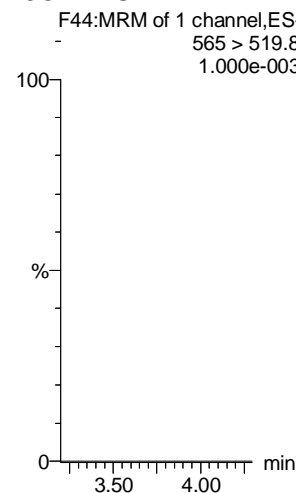
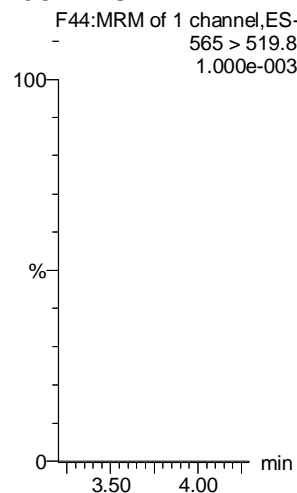
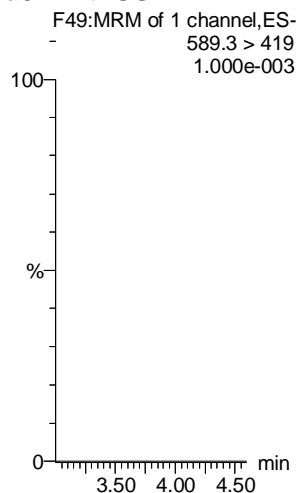
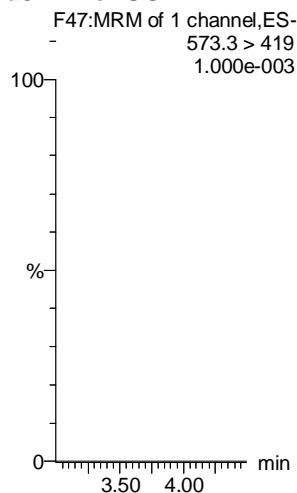
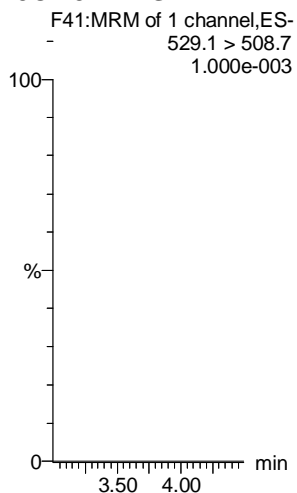
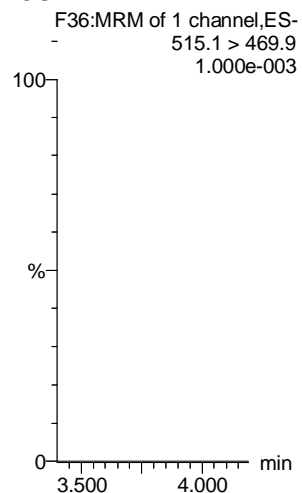
13C2-8:2 FTS

d3-N-MeFOSAA

d5-N-EtFOSAA

13C2-PFUnA

13C2-PFUnA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

Last Altered: Friday, September 29, 2017 10:10:18 Pacific Daylight Time

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Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

PFDaA

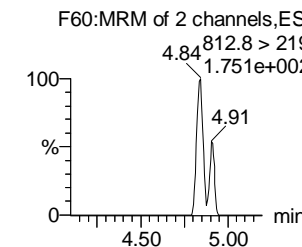
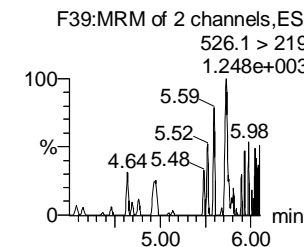
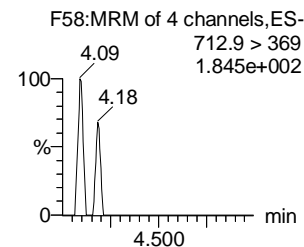
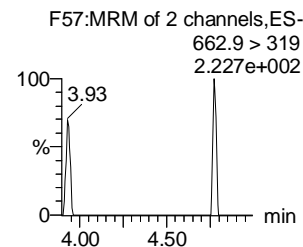
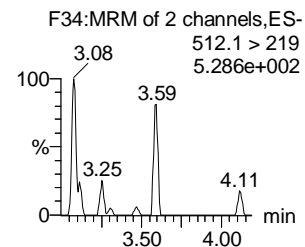
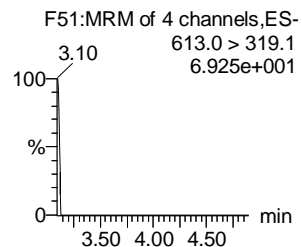
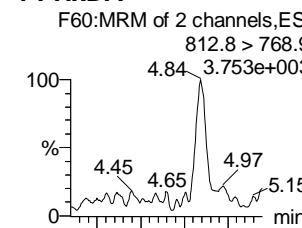
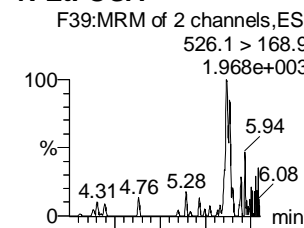
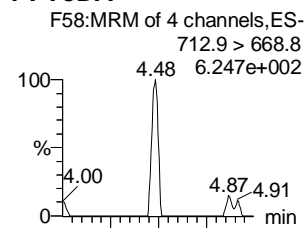
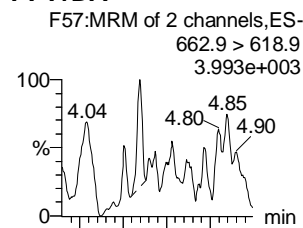
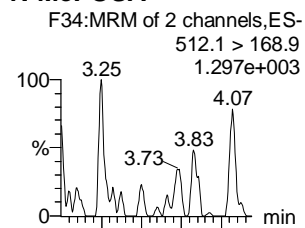
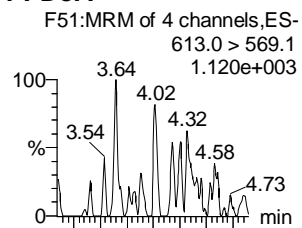
N-MeFOSA

PFTrDA

PFTeDA

N-EtFOSA

PFHxDA



13C2-PFDaA

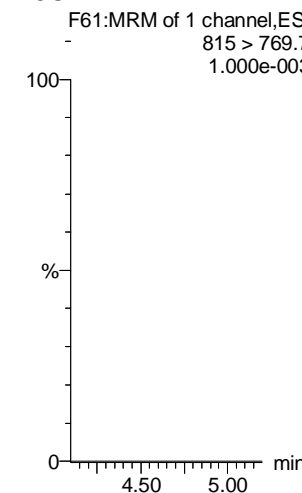
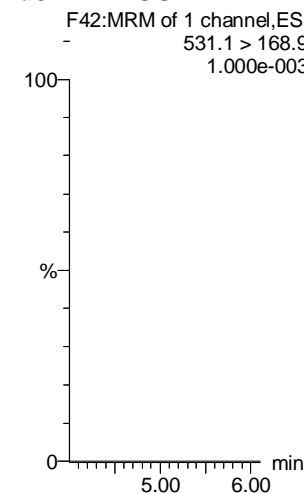
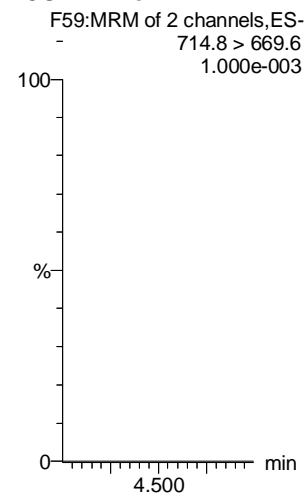
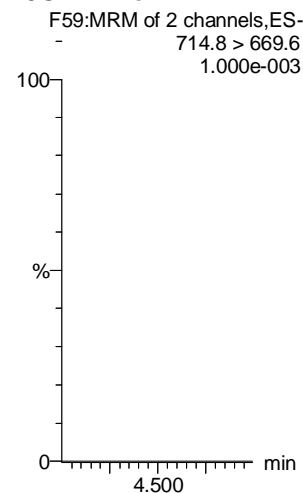
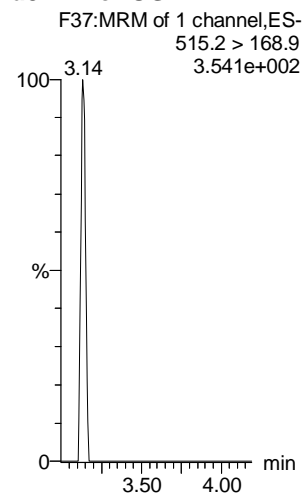
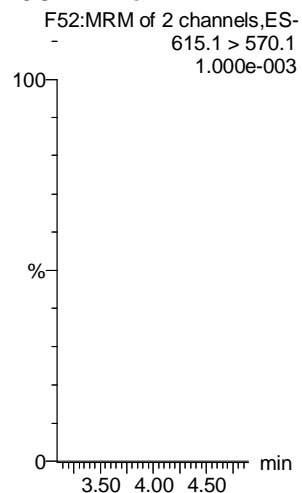
d3-N-MeFOSA

13C2-PFTeDA

13C2-PFTeDA

d5-N-ETFOSA

13C2-PFHxDA



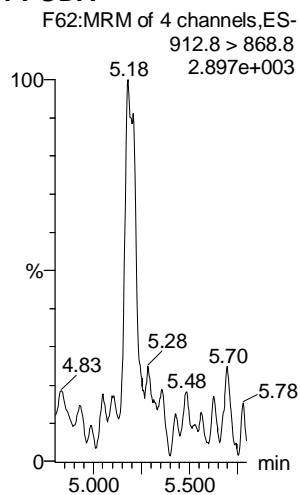
Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

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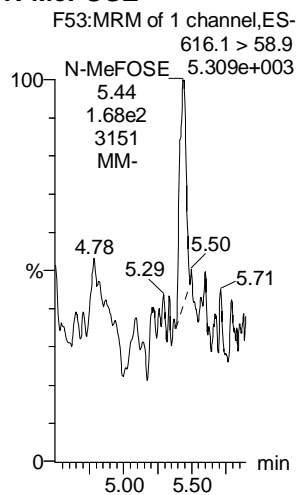
Printed: Friday, September 29, 2017 10:10:36 Pacific Daylight Time

Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

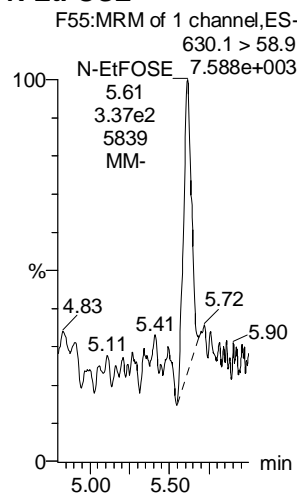
PFODA



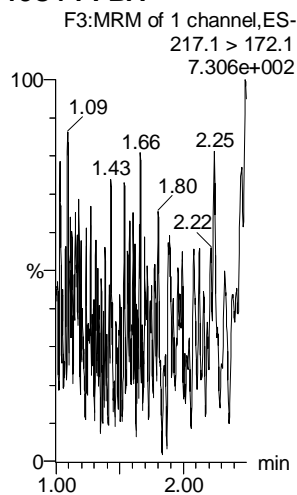
N-MeFOSE



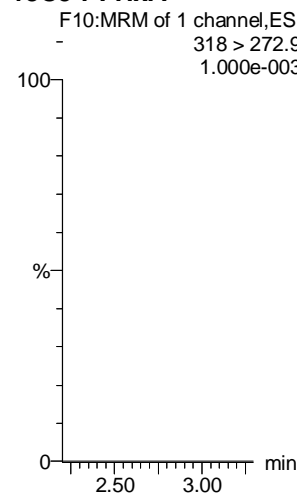
N-EtFOSE



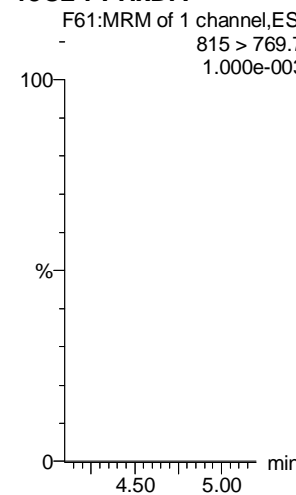
13C4-PFBA



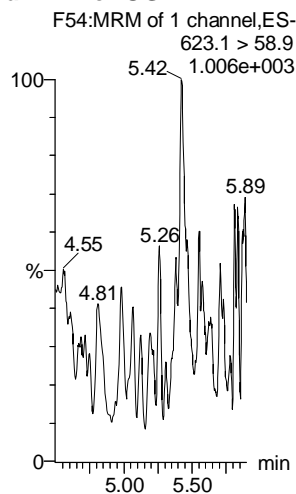
13C5-PFHxA



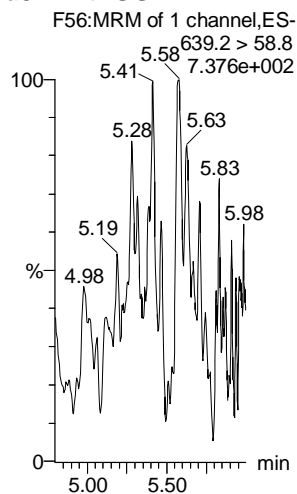
13C2-PFHxDA



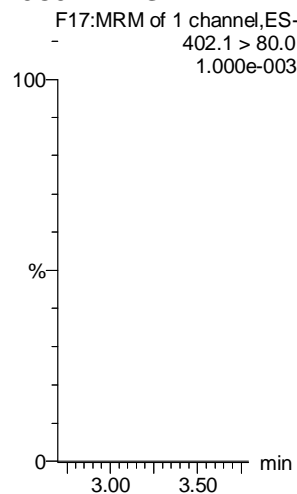
d7-N-MeFOSE



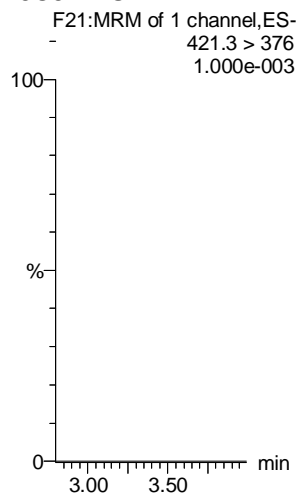
d9-N-EtFOSE



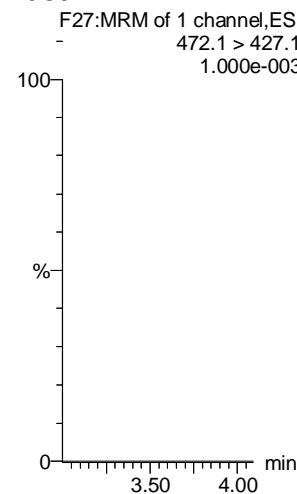
13C3-PFHxS



13C8-PFOA



13C9-PFNA



Dataset: U:\Q4.PRO\results\170928M3\170928M3-12.qld

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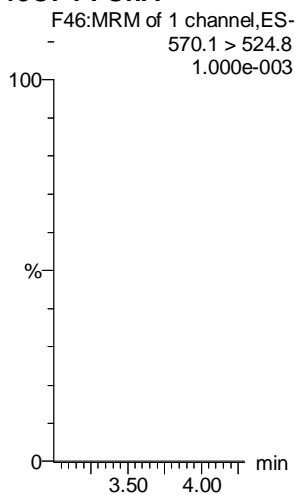
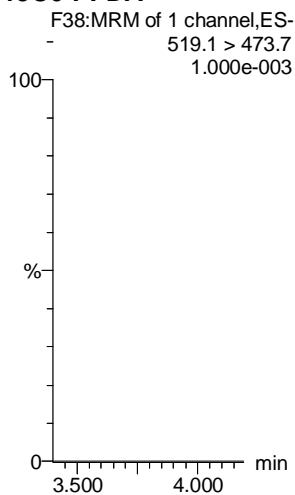
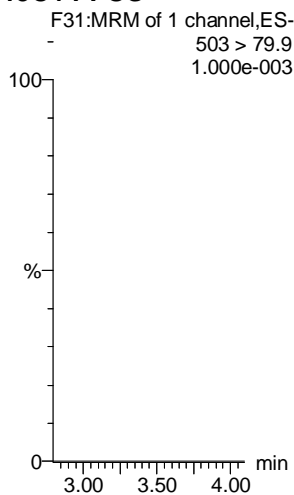
Printed: Friday, September 29, 2017 10:10:36 Pacific Daylight Time

Name: 170928M3_12, Date: 28-Sep-2017, Time: 19:41:51, ID: IPA, Description: IPA

13C4-PFOS

13C6-PFDA

13C7-PFUnA



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
 Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04
 Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Compound name: PFBA

Correlation coefficient: $r = 0.999442$, $r^2 = 0.998885$

Calibration curve: $0.752416 * x + -0.0350362$

Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	1.76	518.946	36306.508	0.179	bb	0.284	13.6
2	2 170928G1_3	Standard	0.500	1.76	850.587	31827.455	0.334	bd	0.491	-1.9
3	3 170928G1_4	Standard	1.000	1.76	2028.009	35764.625	0.709	bb	0.989	-1.1
4	4 170928G1_5	Standard	2.000	1.76	4045.821	33534.695	1.508	bb	2.051	2.5
5	5 170928G1_6	Standard	5.000	1.76	9089.055	33953.285	3.346	bb	4.494	-10.1
6	6 170928G1_7	Standard	10.000	1.77	22161.043	39364.039	7.037	bb	9.399	-6.0
7	7 170928G1_8	Standard	50.000	1.76	94532.172	30249.482	39.064	bb	51.964	3.9
8	8 170928G1_9	Standard	100.000	1.76	166288.641	27895.756	74.513	bb	99.079	-0.9

YJA 9/28/17
YJA 9/28/2017

Compound name: PFPeA

Correlation coefficient: $r = 0.998183$, $r^2 = 0.996370$

Calibration curve: $1.22015 * x + 0.0103311$

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	2.69	362.114	13142.144	0.344	MM	0.274	9.5
2	2 170928G1_3	Standard	0.500	2.70	517.413	11598.818	0.558	bb	0.449	-10.3
3	3 170928G1_4	Standard	1.000	2.70	1325.879	12441.682	1.332	bb	1.083	8.3
4	4 170928G1_5	Standard	2.000	2.70	2381.511	12296.446	2.421	bb	1.976	-1.2
5	5 170928G1_6	Standard	5.000	2.70	5799.194	12395.860	5.848	bb	4.784	-4.3
6	6 170928G1_7	Standard	10.000	2.70	12697.274	14025.483	11.316	bb	9.266	-7.3
7	7 170928G1_8	Standard	50.000	2.70	52570.941	9899.656	66.380	bb	54.394	8.8
8	8 170928G1_9	Standard	100.000	2.70	92606.148	9827.918	117.785	bb	96.524	-3.5

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
 Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.998937$, $r^2 = 0.997875$

Calibration curve: $1.66907 * x + 0.0374156$

Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	2.97	199.932	5621.776	0.445 bb	0.244	-2.4
2	2 170928G1_3	Standard	0.500	2.97	394.311	5232.053	0.942 bb	0.542	8.4
3	3 170928G1_4	Standard	1.000	2.97	782.258	6066.709	1.612 bb	0.943	-5.7
4	4 170928G1_5	Standard	2.000	2.97	1556.961	5426.496	3.586 bb	2.126	6.3
5	5 170928G1_6	Standard	5.000	2.97	3944.631	5971.027	8.258 bb	4.925	-1.5
6	6 170928G1_7	Standard	10.000	2.97	8523.288	7005.563	15.208 bb	9.089	-9.1
7	7 170928G1_8	Standard	50.000	2.97	36526.934	5148.696	88.680 bb	53.109	6.2
8	8 170928G1_9	Standard	100.000	2.97	62562.453	4791.130	163.225 bb	97.771	-2.2

Compound name: PFHxA

Correlation coefficient: $r = 0.999154$, $r^2 = 0.998308$

Calibration curve: $1.95382 * x + 0.264308$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	3.34	539.175	9502.786	0.709 bb	0.228	-8.9
2	2 170928G1_3	Standard	0.500	3.34	732.696	8356.991	1.096 bb	0.426	-14.9
3	3 170928G1_4	Standard	1.000	3.34	1989.069	10244.760	2.427 bb	1.107	10.7
4	4 170928G1_5	Standard	2.000	3.34	3049.121	8872.411	4.296 bb	2.063	3.2
5	5 170928G1_6	Standard	5.000	3.34	8063.356	9643.653	10.452 bb	5.214	4.3
6	6 170928G1_7	Standard	10.000	3.34	16704.926	10159.572	20.553 bb	10.384	3.8
7	7 170928G1_8	Standard	50.000	3.34	67288.648	8182.444	102.794 bb	52.477	5.0
8	8 170928G1_9	Standard	100.000	3.34	116597.742	7691.349	189.495 bb	96.852	-3.1

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Compound name: PFHpA

Correlation coefficient: $r = 0.997028$, $r^2 = 0.994064$

Calibration curve: $2.34266 * x + 0.118863$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	3.85	688.414	9987.401	0.862 bb	0.317	26.8
2	2 170928G1_3	Standard	0.500	3.85	830.849	10502.454	0.989 bb	0.371	-25.7
3	3 170928G1_4	Standard	1.000	3.85	2373.862	11406.787	2.601 bb	1.060	6.0
4	4 170928G1_5	Standard	2.000	3.85	3989.447	10811.219	4.613 bb	1.918	-4.1
5	5 170928G1_6	Standard	5.000	3.86	10029.233	11600.664	10.807 bb	4.562	-8.8
6	6 170928G1_7	Standard	10.000	3.85	23459.125	12493.274	23.472 bb	9.969	-0.3
7	7 170928G1_8	Standard	50.000	3.85	97715.188	9379.144	130.229 bb	55.540	11.1
8	8 170928G1_9	Standard	100.000	3.85	164948.438	9258.335	222.703 bb	95.013	-5.0

Compound name: PFHxS

Correlation coefficient: $r = 0.999122$, $r^2 = 0.998245$

Calibration curve: $1.91031 * x + 0.0278037$

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	3.97	234.421	4946.660	0.592 MM	0.296	18.2
2	2 170928G1_3	Standard	0.500	3.97	380.241	4935.000	0.963 MM	0.490	-2.1
3	3 170928G1_4	Standard	1.000	3.97	833.535	5500.577	1.894 MM	0.977	-2.3
4	4 170928G1_5	Standard	2.000	3.97	1593.922	5077.487	3.924 MM	2.040	2.0
5	5 170928G1_6	Standard	5.000	3.98	3679.223	5353.910	8.590 MM	4.482	-10.4
6	6 170928G1_7	Standard	10.000	3.98	8536.340	6149.478	17.352 MM	9.069	-9.3
7	7 170928G1_8	Standard	50.000	3.98	38607.527	4814.477	100.238 MM	52.457	4.9
8	8 170928G1_9	Standard	100.000	3.98	73926.852	4888.452	189.034 MM	98.940	-1.1

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Compound name: PFOA

Correlation coefficient: $r = 0.998981$, $r^2 = 0.997963$

Calibration curve: $0.932697 * x + 0.337184$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.25	1146.993	23294.650	0.615 bb	0.298	19.4
2	2 170928G1_3	Standard	0.500	4.26	1244.732	20977.398	0.742 bb	0.434	-13.3
3	3 170928G1_4	Standard	1.000	4.26	2433.848	24625.984	1.235 bb	0.963	-3.7
4	4 170928G1_5	Standard	2.000	4.26	4011.395	22606.363	2.218 bb	2.017	0.8
5	5 170928G1_6	Standard	5.000	4.26	8371.810	22801.326	4.590 bb	4.559	-8.8
6	6 170928G1_7	Standard	10.000	4.26	19462.170	24629.186	9.878 bb	10.229	2.3
7	7 170928G1_8	Standard	50.000	4.26	84352.891	21166.590	49.815 bb	53.048	6.1
8	8 170928G1_9	Standard	100.000	4.26	151850.594	20859.199	90.997 bb	97.202	-2.8

Compound name: PFNA

Correlation coefficient: $r = 0.996068$, $r^2 = 0.992152$

Calibration curve: $2.74299 * x + 0.03889$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.60	459.347	6648.645	0.864 bb	0.301	20.3
2	2 170928G1_3	Standard	0.500	4.60	603.594	6758.418	1.116 bb	0.393	-21.4
3	3 170928G1_4	Standard	1.000	4.60	1728.765	7177.854	3.011 bb	1.083	8.3
4	4 170928G1_5	Standard	2.000	4.60	3082.063	6946.593	5.546 bb	2.008	0.4
5	5 170928G1_6	Standard	5.000	4.60	7970.080	7450.837	13.371 bb	4.860	-2.8
6	6 170928G1_7	Standard	10.000	4.60	14738.961	7664.314	24.038 bb	8.749	-12.5
7	7 170928G1_8	Standard	50.000	4.60	81970.086	6622.767	154.713 bb	56.389	12.8
8	8 170928G1_9	Standard	100.000	4.60	143144.266	6867.901	260.531 bb	94.967	-5.0

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Compound name: PFOS

Correlation coefficient: $r = 0.999141$, $r^2 = 0.998283$

Calibration curve: $0.496696 * x + 0.022331$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.67	42.462	6445.301	0.082	MMX	0.121	-51.7
2	2 170928G1_3	Standard	0.500	4.66	104.448	5579.573	0.234	MMX	0.426	-14.8
3	3 170928G1_4	Standard	1.000	4.67	385.081	7268.540	0.662	MM	1.288	28.8
4	4 170928G1_5	Standard	2.000	4.67	435.353	6058.987	0.898	MM	1.763	-11.8
5	5 170928G1_6	Standard	5.000	4.67	1138.989	6741.988	2.112	MM	4.207	-15.9
6	6 170928G1_7	Standard	10.000	4.67	2578.894	6647.552	4.849	MM	9.718	-2.8
7	7 170928G1_8	Standard	50.000	4.67	15176.708	7532.108	25.187	MM	50.664	1.3
8	8 170928G1_9	Standard	100.000	4.67	30375.549	7613.575	49.871	MM	100.360	0.4

Ⓐ Points were excluded.
 for 9/28/17

Compound name: PFDA

Correlation coefficient: $r = 0.998370$, $r^2 = 0.996743$

Calibration curve: $0.202338 * x + 0.0245746$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.90	61.547	9898.450	0.078	bb	0.263	5.1
2	2 170928G1_3	Standard	0.500	4.90	75.895	8967.027	0.106	bb	0.401	-19.7
3	3 170928G1_4	Standard	1.000	4.90	236.681	11871.896	0.249	bb	1.110	11.0
4	4 170928G1_5	Standard	2.000	4.90	344.787	9828.354	0.439	bb	2.046	2.3
5	5 170928G1_6	Standard	5.000	4.91	941.588	10858.199	1.084	bb	5.236	4.7
6	6 170928G1_7	Standard	10.000	4.90	1553.174	10264.235	1.891	bb	9.227	-7.7
7	7 170928G1_8	Standard	50.000	4.90	11513.903	13168.659	10.929	bb	53.893	7.8
8	8 170928G1_9	Standard	100.000	4.90	23330.324	14905.509	19.565	bb	96.574	-3.4

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Compound name: 13C3-PFBA

Response Factor: 1.37346

RRF SD: 0.0892037, Relative SD: 6.49483

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	1.76	36306.508	24460.455	18.554	bb	13.509	8.1
2	2 170928G1_3	Standard	12.500	1.76	31827.455	21405.756	18.586	bb	13.532	8.3
3	3 170928G1_4	Standard	12.500	1.76	35764.625	25514.059	17.522	bb	12.758	2.1
4	4 170928G1_5	Standard	12.500	1.76	33534.695	24738.973	16.944	bb	12.337	-1.3
5	5 170928G1_6	Standard	12.500	1.76	33953.285	24588.061	17.261	bd	12.568	0.5
6	6 170928G1_7	Standard	12.500	1.76	39364.039	28908.408	17.021	bb	12.393	-0.9
7	7 170928G1_8	Standard	12.500	1.76	30249.482	24765.691	15.268	bb	11.116	-11.1
8	8 170928G1_9	Standard	12.500	1.76	27895.756	21537.979	16.190	bb	11.788	-5.7

Compound name: 13C3-PFBS

Response Factor: 0.23581

RRF SD: 0.0168141, Relative SD: 7.13036

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc	%Dev
1	1 170928G1_2	Standard	12.500	2.96	5621.776	27225.922	2.581	bb	10.946	-12.4
2	2 170928G1_3	Standard	12.500	2.96	5232.053	21358.213	3.062	bb	12.985	3.9
3	3 170928G1_4	Standard	12.500	2.96	6066.709	26469.664	2.865	bd	12.149	-2.8
4	4 170928G1_5	Standard	12.500	2.96	5426.496	23831.510	2.846	bb	12.070	-3.4
5	5 170928G1_6	Standard	12.500	2.97	5971.027	23722.184	3.146	bb	13.343	6.7
6	6 170928G1_7	Standard	12.500	2.97	7005.563	28190.441	3.106	bb	13.173	5.4
7	7 170928G1_8	Standard	12.500	2.97	5148.696	23060.199	2.791	bb	11.835	-5.3
8	8 170928G1_9	Standard	12.500	2.97	4791.130	18815.213	3.183	bb	13.498	8.0

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Compound name: 13C3-PFPeA

Response Factor: 0.497935

RRF SD: 0.0364194, Relative SD: 7.31409

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	2.69	13142.144	27225.922	6.034	bd	12.118	-3.1
2	2 170928G1_3	Standard	12.500	2.69	11598.818	21358.213	6.788	bb	13.633	9.1
3	3 170928G1_4	Standard	12.500	2.70	12441.682	26469.664	5.875	bb	11.800	-5.6
4	4 170928G1_5	Standard	12.500	2.70	12296.446	23831.510	6.450	bb	12.953	3.6
5	5 170928G1_6	Standard	12.500	2.70	12395.860	23722.184	6.532	bb	13.118	4.9
6	6 170928G1_7	Standard	12.500	2.70	14025.483	28190.441	6.219	bb	12.490	-0.1
7	7 170928G1_8	Standard	12.500	2.70	9899.656	23060.199	5.366	bb	10.777	-13.8
8	8 170928G1_9	Standard	12.500	2.70	9827.918	18815.213	6.529	bb	13.113	4.9

Compound name: 13C2-PFHxA

Response Factor: 0.378772

RRF SD: 0.0230929, Relative SD: 6.09677

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	3.34	9502.786	27225.922	4.363	bb	11.519	-7.9
2	2 170928G1_3	Standard	12.500	3.34	8356.991	21358.213	4.891	bb	12.913	3.3
3	3 170928G1_4	Standard	12.500	3.34	10244.760	26469.664	4.838	bb	12.773	2.2
4	4 170928G1_5	Standard	12.500	3.34	8872.411	23831.510	4.654	bb	12.286	-1.7
5	5 170928G1_6	Standard	12.500	3.34	9643.653	23722.184	5.082	bb	13.416	7.3
6	6 170928G1_7	Standard	12.500	3.34	10159.572	28190.441	4.505	bb	11.893	-4.9
7	7 170928G1_8	Standard	12.500	3.34	8182.444	23060.199	4.435	bd	11.710	-6.3
8	8 170928G1_9	Standard	12.500	3.34	7691.349	18815.213	5.110	bb	13.490	7.9

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Compound name: 13C4-PFHpA

Response Factor: 0.446768

RRF SD: 0.0449803, Relative SD: 10.068

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	3.85	9987.401	27225.922	4.585	bb	10.264	-17.9
2	2 170928G1_3	Standard	12.500	3.85	10502.454	21358.213	6.147	bb	13.758	10.1
3	3 170928G1_4	Standard	12.500	3.85	11406.787	26469.664	5.387	bd	12.057	-3.5
4	4 170928G1_5	Standard	12.500	3.85	10811.219	23831.510	5.671	bb	12.693	1.5
5	5 170928G1_6	Standard	12.500	3.85	11600.664	23722.184	6.113	bb	13.682	9.5
6	6 170928G1_7	Standard	12.500	3.85	12493.274	28190.441	5.540	bb	12.399	-0.8
7	7 170928G1_8	Standard	12.500	3.85	9379.144	23060.199	5.084	bb	11.380	-9.0
8	8 170928G1_9	Standard	12.500	3.85	9258.335	18815.213	6.151	bb	13.767	10.1

Compound name: 18O2-PFHxS

Response Factor: 0.436445

RRF SD: 0.0325466, Relative SD: 7.4572

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	3.97	4946.660	12372.742	4.998	bb	11.451	-8.4
2	2 170928G1_3	Standard	12.500	3.97	4935.000	11141.503	5.537	bb	12.686	1.5
3	3 170928G1_4	Standard	12.500	3.97	5500.577	13481.013	5.100	bb	11.686	-6.5
4	4 170928G1_5	Standard	12.500	3.97	5077.487	11968.285	5.303	bb	12.151	-2.8
5	5 170928G1_6	Standard	12.500	3.97	5353.910	11112.146	6.023	bb	13.799	10.4
6	6 170928G1_7	Standard	12.500	3.97	6149.478	13041.214	5.894	bb	13.505	8.0
7	7 170928G1_8	Standard	12.500	3.97	4814.477	11972.489	5.027	bb	11.517	-7.9
8	8 170928G1_9	Standard	12.500	3.97	4888.452	10602.389	5.763	bb	13.205	5.6

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Compound name: 13C2-PFOA

Response Factor: 3.71454

RRF SD: 0.392278, Relative SD: 10.5606

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.25	23294.650	5780.316	50.375	bb 13.562	8.5
2	2 170928G1_3	Standard	12.500	4.25	20977.398	4919.356	53.303	bb 14.350	14.8
3	3 170928G1_4	Standard	12.500	4.26	24625.984	6176.654	49.837	bb 13.417	7.3
4	4 170928G1_5	Standard	12.500	4.26	22606.363	6300.243	44.852	bb 12.075	-3.4
5	5 170928G1_6	Standard	12.500	4.26	22801.326	6106.645	46.673	bb 12.565	0.5
6	6 170928G1_7	Standard	12.500	4.26	24629.186	6788.285	45.352	bb 12.209	-2.3
7	7 170928G1_8	Standard	12.500	4.26	21166.590	7089.111	37.322	bb 10.048	-19.6
8	8 170928G1_9	Standard	12.500	4.26	20859.199	5961.214	43.739	bb 11.775	-5.8

Compound name: 13C5-PFNA

Response Factor: 0.885987

RRF SD: 0.0745972, Relative SD: 8.41968

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.60	6648.645	7838.953	10.602	bb 11.966	-4.3
2	2 170928G1_3	Standard	12.500	4.60	6758.418	6773.147	12.473	bb 14.078	12.6
3	3 170928G1_4	Standard	12.500	4.60	7177.854	9159.829	9.795	bb 11.056	-11.6
4	4 170928G1_5	Standard	12.500	4.60	6946.593	7621.554	11.393	bb 12.859	2.9
5	5 170928G1_6	Standard	12.500	4.60	7450.837	7673.738	12.137	bb 13.699	9.6
6	6 170928G1_7	Standard	12.500	4.60	7664.314	8510.809	11.257	bb 12.705	1.6
7	7 170928G1_8	Standard	12.500	4.60	6622.767	8198.874	10.097	bb 11.396	-8.8
8	8 170928G1_9	Standard	12.500	4.60	6867.901	7916.042	10.845	bb 12.240	-2.1

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Compound name: 13C2-PFDA

Response Factor: 1.93433

RRF SD: 0.0962423, Relative SD: 4.97548

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.90	9898.450	5386.665	22.970 bb	11.875	-5.0
2	2 170928G1_3	Standard	12.500	4.90	8967.027	4368.508	25.658 bb	13.265	6.1
3	3 170928G1_4	Standard	12.500	4.90	11871.896	6405.082	23.169 bb	11.978	-4.2
4	4 170928G1_5	Standard	12.500	4.90	9828.354	4956.162	24.788 bb	12.815	2.5
5	5 170928G1_6	Standard	12.500	4.90	10858.199	5678.416	23.902 bb	12.357	-1.1
6	6 170928G1_7	Standard	12.500	4.90	10264.235	5248.009	24.448 bb	12.639	1.1
7	7 170928G1_8	Standard	12.500	4.90	13168.659	7258.260	22.679 bb	11.724	-6.2
8	8 170928G1_9	Standard	12.500	4.90	14905.509	7216.327	25.819 bb	13.348	6.8

Compound name: 13C8-PFOS

Response Factor: 0.943432

RRF SD: 0.0554552, Relative SD: 5.87802

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.66	6445.301	7432.231	10.840 bb	11.490	-8.1
2	2 170928G1_3	Standard	12.500	4.66	5579.573	5698.064	12.240 bb	12.974	3.8
3	3 170928G1_4	Standard	12.500	4.67	7268.540	8272.104	10.984 bb	11.642	-6.9
4	4 170928G1_5	Standard	12.500	4.67	6058.987	6481.771	11.685 bb	12.385	-0.9
5	5 170928G1_6	Standard	12.500	4.67	6741.988	7128.604	11.822 bb	12.531	0.2
6	6 170928G1_7	Standard	12.500	4.67	6647.552	7161.530	11.603 bb	12.299	-1.6
7	7 170928G1_8	Standard	12.500	4.67	7532.108	7717.703	12.199 bb	12.931	3.4
8	8 170928G1_9	Standard	12.500	4.67	7613.575	7337.378	12.971 bb	13.748	10.0

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Compound name: 13C4-PFBA

Response Factor: 1
 RRF SD: 8.3925e-017, Relative SD: 8.3925e-015
 Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	1.75	24460.455	24460.455	12.500	bb	12.500	0.0
2	2 170928G1_3	Standard	12.500	1.76	21405.756	21405.756	12.500	bb	12.500	0.0
3	3 170928G1_4	Standard	12.500	1.76	25514.059	25514.059	12.500	bb	12.500	0.0
4	4 170928G1_5	Standard	12.500	1.76	24738.973	24738.973	12.500	bb	12.500	0.0
5	5 170928G1_6	Standard	12.500	1.76	24588.061	24588.061	12.500	bb	12.500	0.0
6	6 170928G1_7	Standard	12.500	1.76	28908.408	28908.408	12.500	bb	12.500	0.0
7	7 170928G1_8	Standard	12.500	1.76	24765.691	24765.691	12.500	bb	12.500	0.0
8	8 170928G1_9	Standard	12.500	1.76	21537.979	21537.979	12.500	bb	12.500	0.0

Compound name: 13C5-PFHxA

Response Factor: 1
 RRF SD: 0, Relative SD: 0
 Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	3.34	27225.922	27225.922	12.500	bb	12.500	0.0
2	2 170928G1_3	Standard	12.500	3.34	21358.213	21358.213	12.500	bb	12.500	0.0
3	3 170928G1_4	Standard	12.500	3.34	26469.664	26469.664	12.500	bb	12.500	0.0
4	4 170928G1_5	Standard	12.500	3.34	23831.510	23831.510	12.500	bb	12.500	0.0
5	5 170928G1_6	Standard	12.500	3.34	23722.184	23722.184	12.500	bb	12.500	0.0
6	6 170928G1_7	Standard	12.500	3.34	28190.441	28190.441	12.500	bb	12.500	0.0
7	7 170928G1_8	Standard	12.500	3.34	23060.199	23060.199	12.500	bb	12.500	0.0
8	8 170928G1_9	Standard	12.500	3.34	18815.213	18815.213	12.500	bb	12.500	0.0

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	3.97	12372.742	12372.742	12.500	bb	12.500	0.0
2	2 170928G1_3	Standard	12.500	3.97	11141.503	11141.503	12.500	bb	12.500	0.0
3	3 170928G1_4	Standard	12.500	3.97	13481.013	13481.013	12.500	bb	12.500	0.0
4	4 170928G1_5	Standard	12.500	3.97	11968.285	11968.285	12.500	bb	12.500	0.0
5	5 170928G1_6	Standard	12.500	3.98	11112.146	11112.146	12.500	bb	12.500	0.0
6	6 170928G1_7	Standard	12.500	3.97	13041.214	13041.214	12.500	bb	12.500	0.0
7	7 170928G1_8	Standard	12.500	3.97	11972.489	11972.489	12.500	bb	12.500	0.0
8	8 170928G1_9	Standard	12.500	3.97	10602.389	10602.389	12.500	bb	12.500	0.0

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 4.19625e-017, Relative SD: 4.19625e-015

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.25	5780.316	5780.316	12.500	bb	12.500	0.0
2	2 170928G1_3	Standard	12.500	4.25	4919.356	4919.356	12.500	bb	12.500	0.0
3	3 170928G1_4	Standard	12.500	4.26	6176.654	6176.654	12.500	bb	12.500	0.0
4	4 170928G1_5	Standard	12.500	4.26	6300.243	6300.243	12.500	bb	12.500	0.0
5	5 170928G1_6	Standard	12.500	4.26	6106.645	6106.645	12.500	bb	12.500	0.0
6	6 170928G1_7	Standard	12.500	4.26	6788.285	6788.285	12.500	bb	12.500	0.0
7	7 170928G1_8	Standard	12.500	4.26	7089.111	7089.111	12.500	bb	12.500	0.0
8	8 170928G1_9	Standard	12.500	4.26	5961.214	5961.214	12.500	bb	12.500	0.0

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.60	7838.953	7838.953	12.500 bb	12.500	0.0
2	2 170928G1_3	Standard	12.500	4.60	6773.147	6773.147	12.500 bb	12.500	0.0
3	3 170928G1_4	Standard	12.500	4.60	9159.829	9159.829	12.500 bb	12.500	0.0
4	4 170928G1_5	Standard	12.500	4.60	7621.554	7621.554	12.500 bb	12.500	0.0
5	5 170928G1_6	Standard	12.500	4.60	7673.738	7673.738	12.500 bd	12.500	0.0
6	6 170928G1_7	Standard	12.500	4.60	8510.809	8510.809	12.500 bb	12.500	0.0
7	7 170928G1_8	Standard	12.500	4.60	8198.874	8198.874	12.500 bb	12.500	0.0
8	8 170928G1_9	Standard	12.500	4.60	7916.042	7916.042	12.500 bb	12.500	0.0

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 1.18688e-016, Relative SD: 1.18688e-014

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.67	7432.231	7432.231	12.500 bb	12.500	0.0
2	2 170928G1_3	Standard	12.500	4.67	5698.064	5698.064	12.500 bb	12.500	0.0
3	3 170928G1_4	Standard	12.500	4.67	8272.104	8272.104	12.500 bb	12.500	0.0
4	4 170928G1_5	Standard	12.500	4.67	6481.771	6481.771	12.500 bb	12.500	0.0
5	5 170928G1_6	Standard	12.500	4.67	7128.604	7128.604	12.500 bb	12.500	0.0
6	6 170928G1_7	Standard	12.500	4.67	7161.530	7161.530	12.500 bb	12.500	0.0
7	7 170928G1_8	Standard	12.500	4.67	7717.703	7717.703	12.500 bd	12.500	0.0
8	8 170928G1_9	Standard	12.500	4.67	7337.378	7337.378	12.500 bb	12.500	0.0

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	12.500	4.90	5386.665	5386.665	12.500	bb	12.500	0.0
2	2 170928G1_3	Standard	12.500	4.90	4368.508	4368.508	12.500	bb	12.500	0.0
3	3 170928G1_4	Standard	12.500	4.90	6405.082	6405.082	12.500	bb	12.500	0.0
4	4 170928G1_5	Standard	12.500	4.90	4956.162	4956.162	12.500	bb	12.500	0.0
5	5 170928G1_6	Standard	12.500	4.90	5678.416	5678.416	12.500	bb	12.500	0.0
6	6 170928G1_7	Standard	12.500	4.90	5248.009	5248.009	12.500	bb	12.500	0.0
7	7 170928G1_8	Standard	12.500	4.90	7258.260	7258.260	12.500	bb	12.500	0.0
8	8 170928G1_9	Standard	12.500	4.90	7216.327	7216.327	12.500	bb	12.500	0.0

Dataset: Untitled

Last Altered: Thursday, September 28, 2017 11:04:42 Pacific Daylight Time

Printed: Thursday, September 28, 2017 11:11:15 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Compound name: PFBA

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1	170928G1_1	IPA	28-Sep-17	08:24:44
2	170928G1_2	ST170928G1-1 PFC CS-2 17I2622	28-Sep-17	08:37:06
3	170928G1_3	ST170928G1-2 PFC CS-1 17I2623	28-Sep-17	08:49:33
4	170928G1_4	ST170928G1-3 PFC CS0 17I2624	28-Sep-17	09:02:05
5	170928G1_5	ST170928G1-4 PFC CS1 17I2625	28-Sep-17	09:14:38
6	170928G1_6	ST170928G1-5 PFC CS2 17I2626	28-Sep-17	09:27:12
7	170928G1_7	ST170928G1-6 PFC CS3 17I2627	28-Sep-17	09:39:45
8	170928G1_8	ST170928G1-7 PFC CS4 17I2628	28-Sep-17	09:52:18
9	170928G1_9	ST170928G1-8 PFC CS5 17I2629	28-Sep-17	10:04:52
10	170928G1_10	ST170928G1-9 PFC CS6 17I2630	28-Sep-17	10:17:33
11	170928G1_11	IPA	28-Sep-17	10:30:00
12	170928G1_12	ICV170928G1-1 PFC ICV 15I2621	28-Sep-17	10:42:35
13	170928G1_13	IPA	28-Sep-17	10:55:07

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

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Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

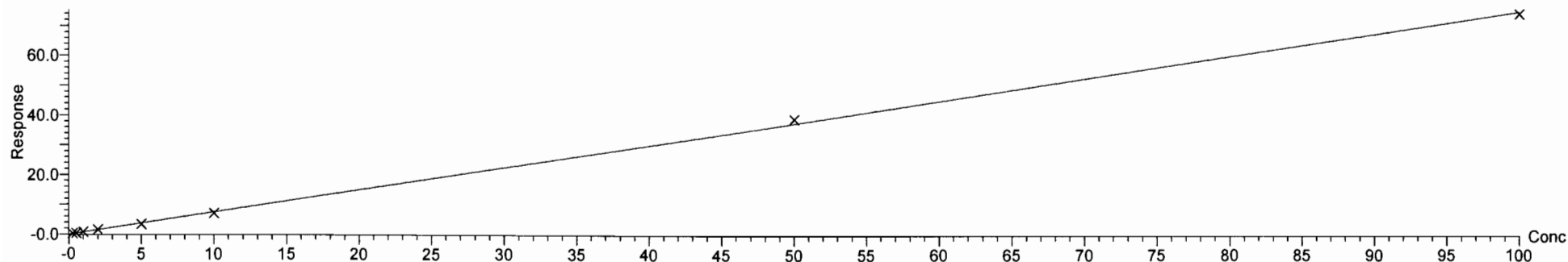
Compound name: PFBA

Correlation coefficient: $r = 0.999442$, $r^2 = 0.998885$

Calibration curve: $0.752416 * x + -0.0350362$

Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



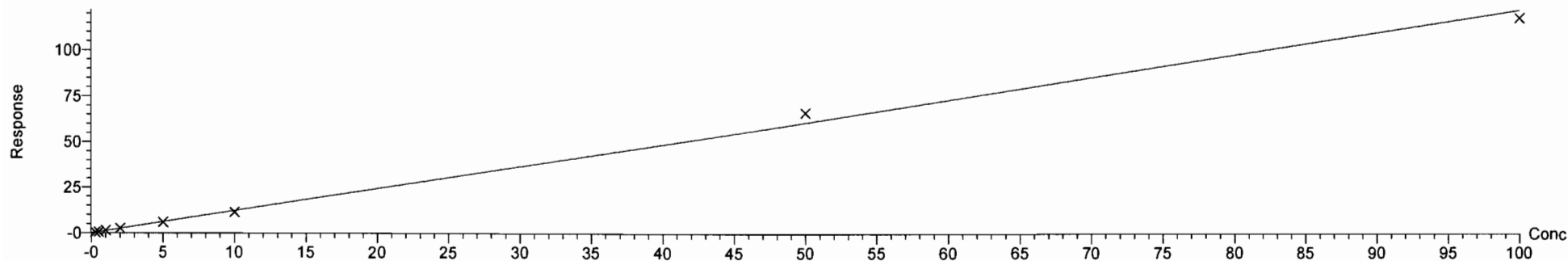
Compound name: PFPeA

Correlation coefficient: $r = 0.998183$, $r^2 = 0.996370$

Calibration curve: $1.22015 * x + 0.0103311$

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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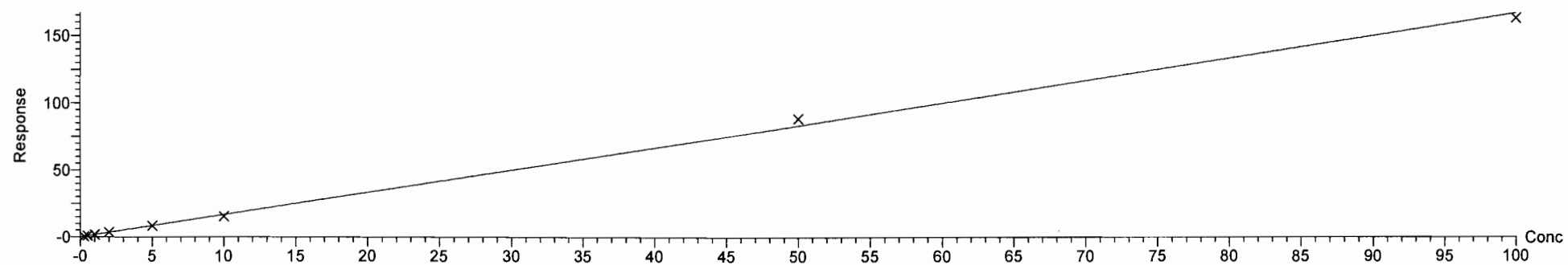
Compound name: PFBS

Correlation coefficient: $r = 0.998937$, $r^2 = 0.997875$

Calibration curve: $1.66907 * x + 0.0374156$

Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



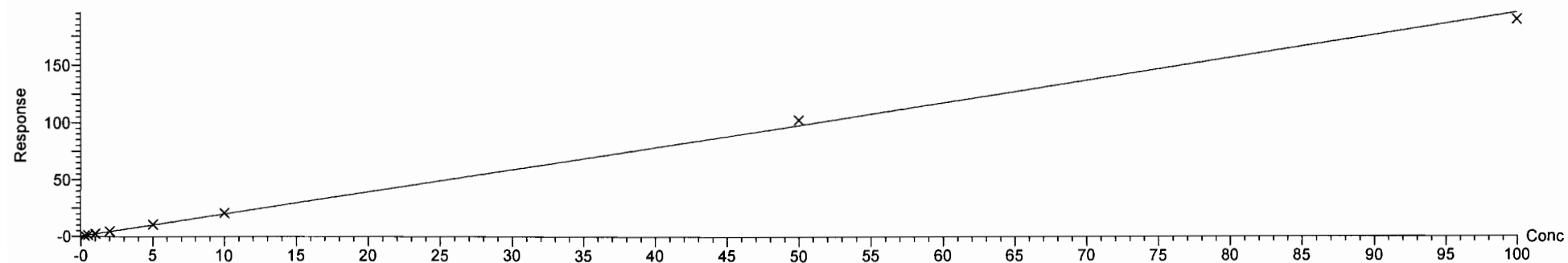
Compound name: PFHxA

Correlation coefficient: $r = 0.999154$, $r^2 = 0.998308$

Calibration curve: $1.95382 * x + 0.264308$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

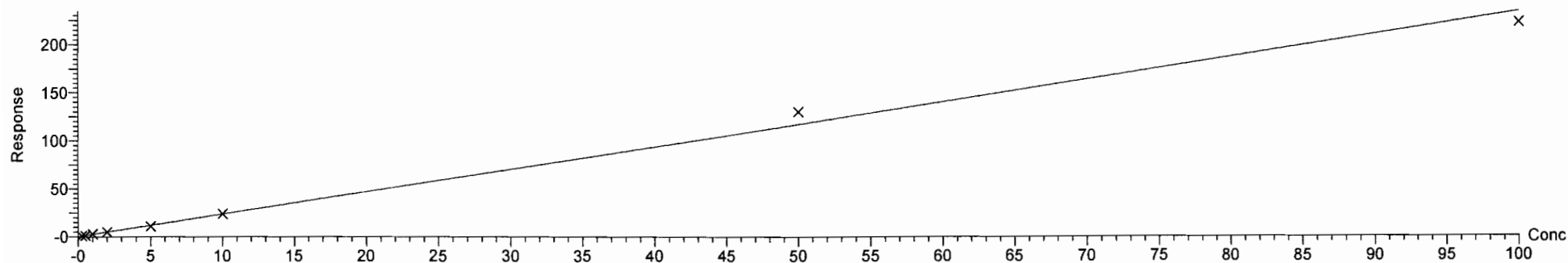


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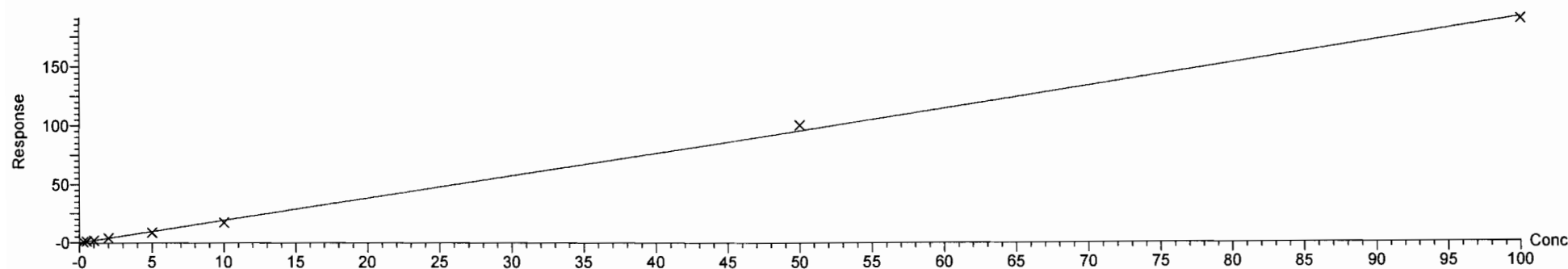
Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

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Compound name: PFHpA
Correlation coefficient: $r = 0.997028$, $r^2 = 0.994064$
Calibration curve: $2.34266 * x + 0.118863$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Compound name: PFHxS
Correlation coefficient: $r = 0.999122$, $r^2 = 0.998245$
Calibration curve: $1.91031 * x + 0.0278037$
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

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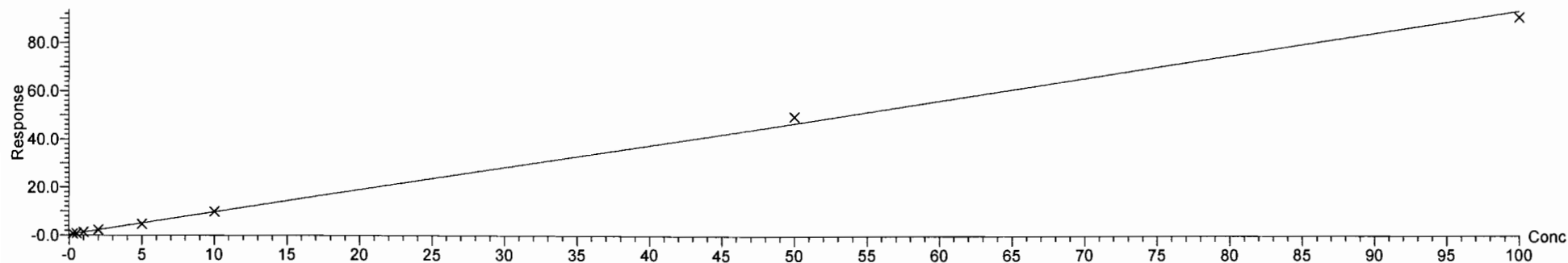
Compound name: PFOA

Correlation coefficient: $r = 0.998981$, $r^2 = 0.997963$

Calibration curve: $0.932697 * x + 0.337184$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



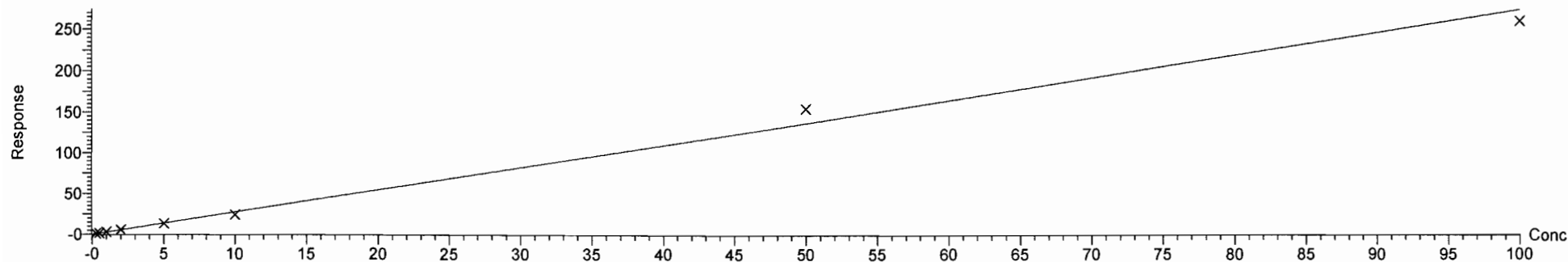
Compound name: PFNA

Correlation coefficient: $r = 0.996068$, $r^2 = 0.992152$

Calibration curve: $2.74299 * x + 0.03889$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

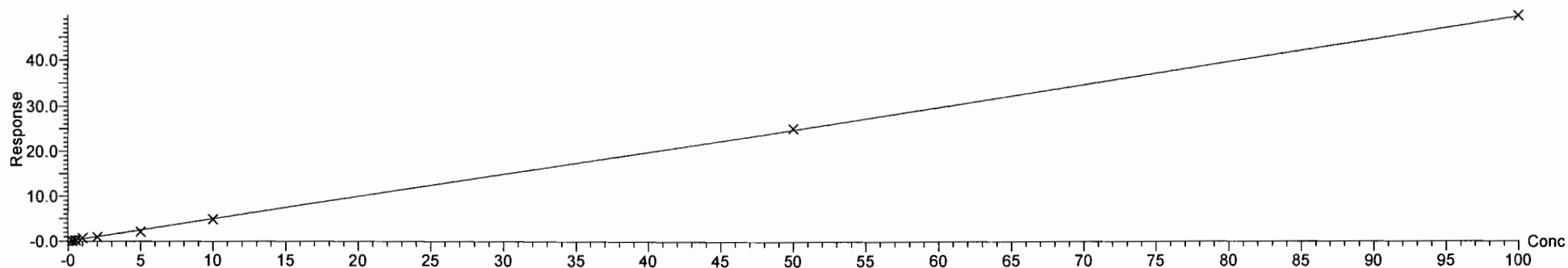


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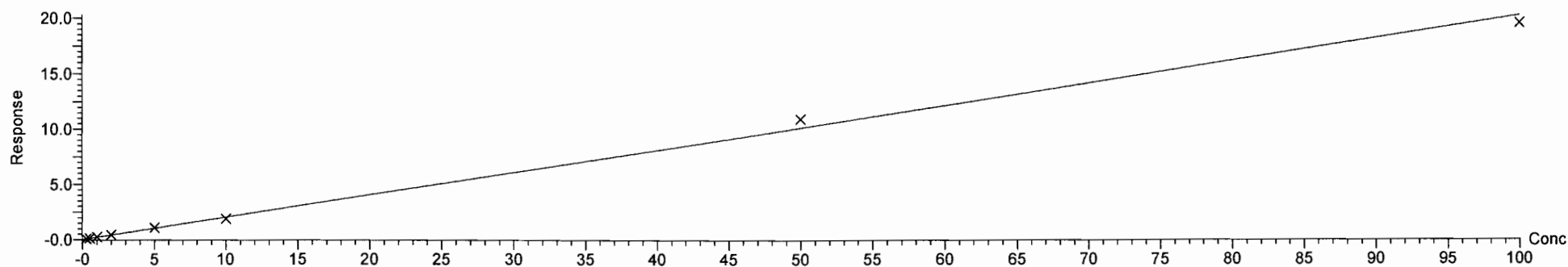
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Compound name: PFOS
Correlation coefficient: $r = 0.999141$, $r^2 = 0.998283$
Calibration curve: $0.496696 * x + 0.022331$
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Compound name: PFDA
Correlation coefficient: $r = 0.998370$, $r^2 = 0.996743$
Calibration curve: $0.202338 * x + 0.0245746$
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



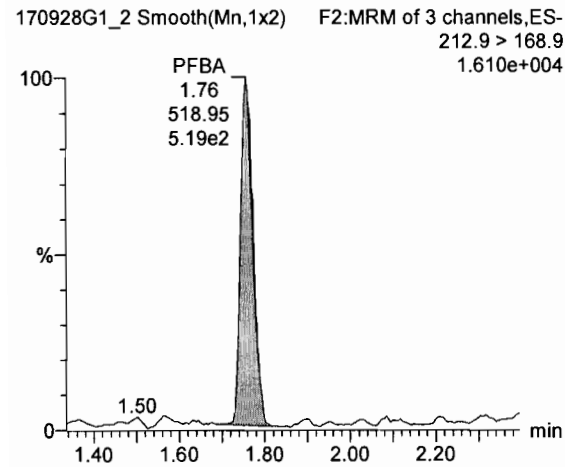
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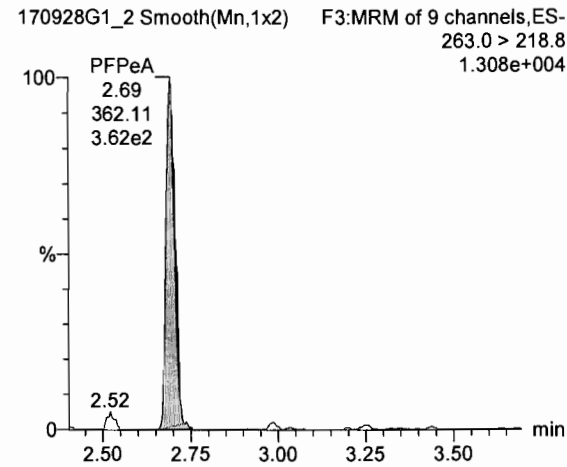
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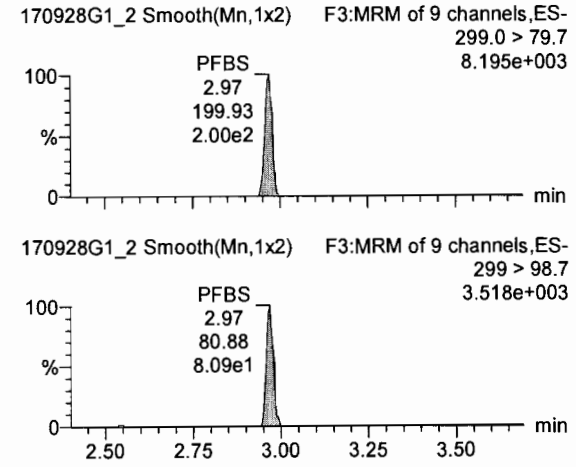
PFBA



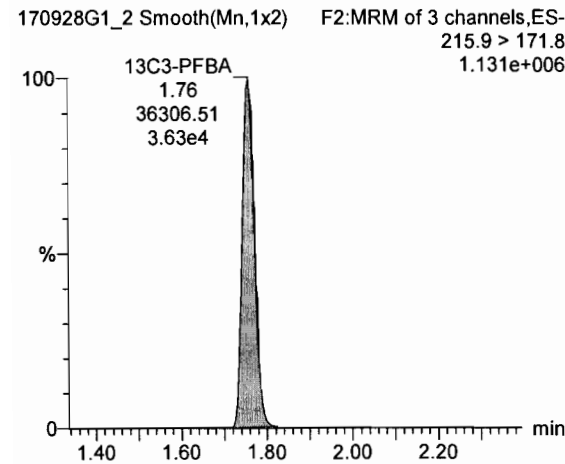
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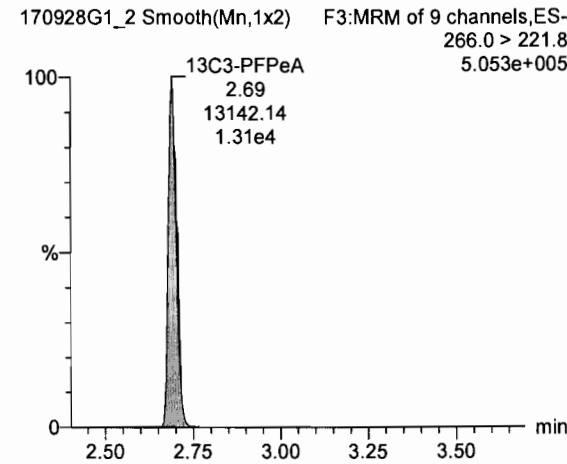
PFBS



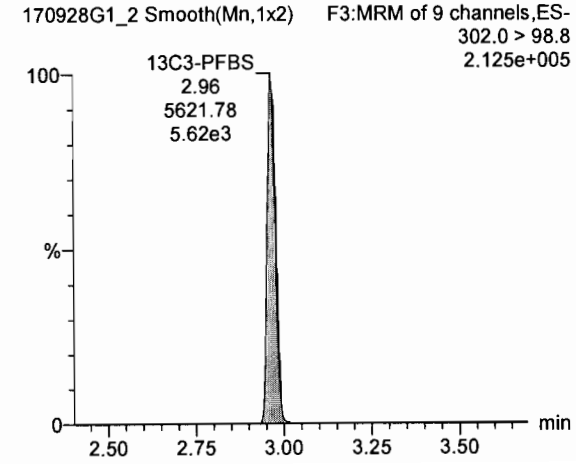
¹³C3-PFBA



¹³C3-PFPeA



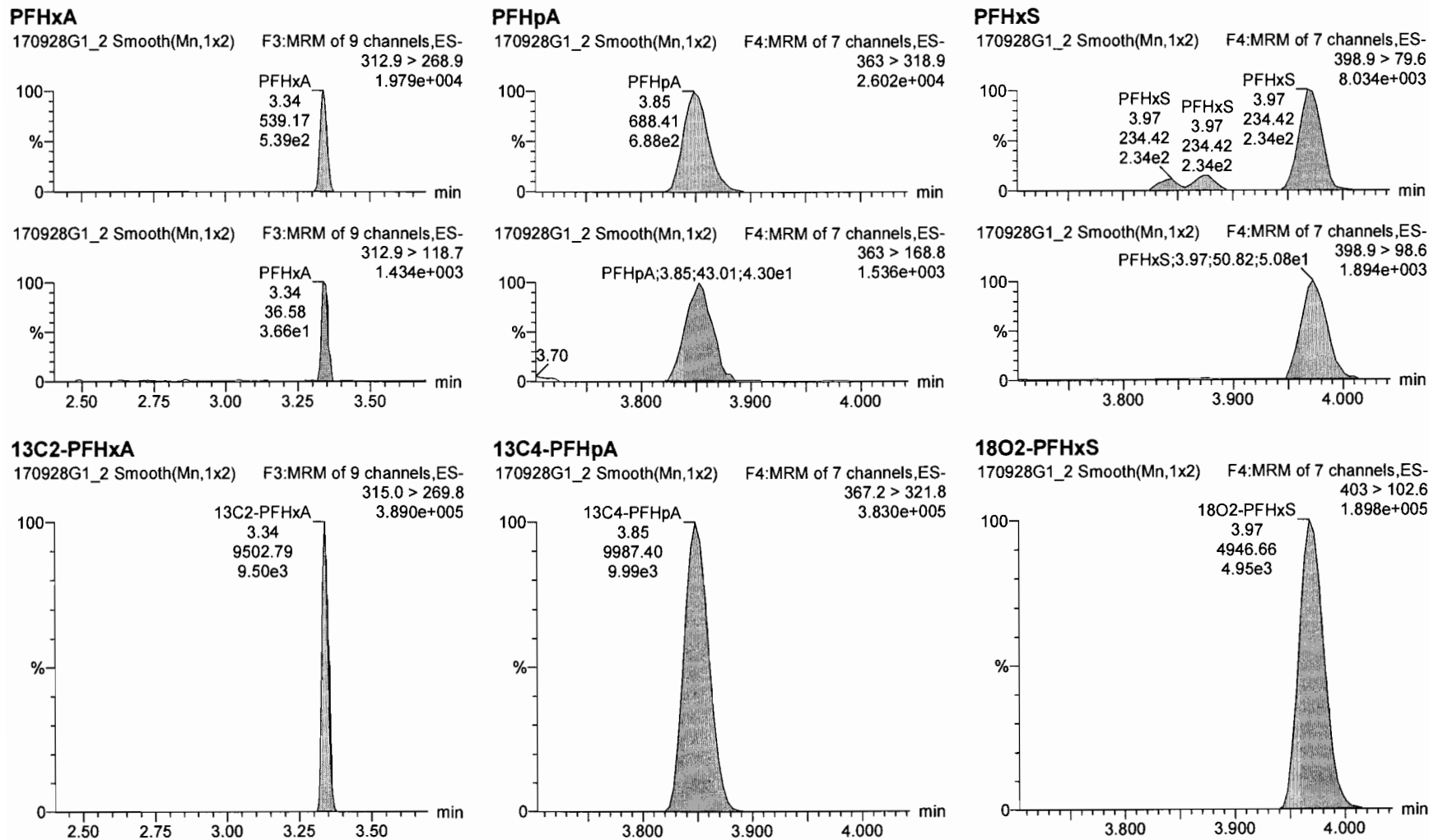
¹³C3-PFBS



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 17I2622, Description: PFC CS-2 17I2622

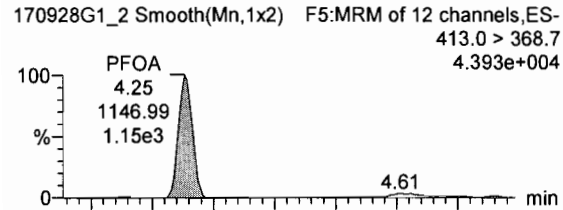


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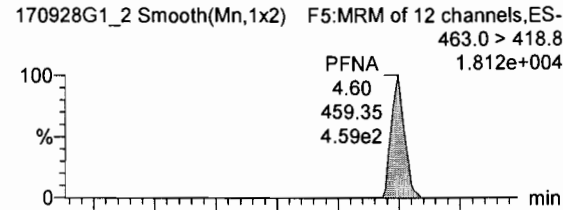
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 1712622, Description: PFC CS-2 1712622

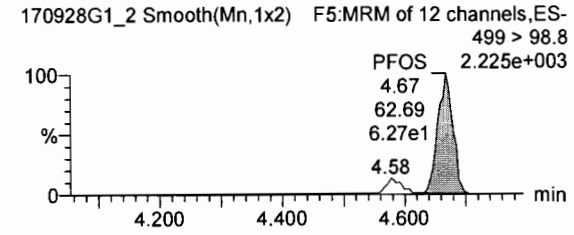
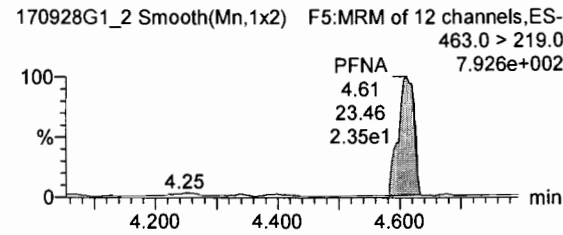
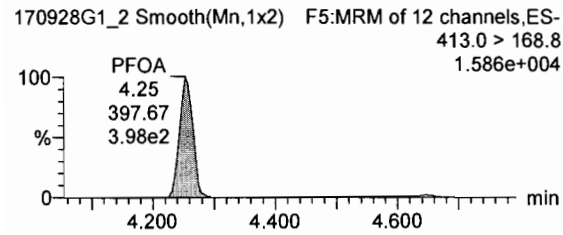
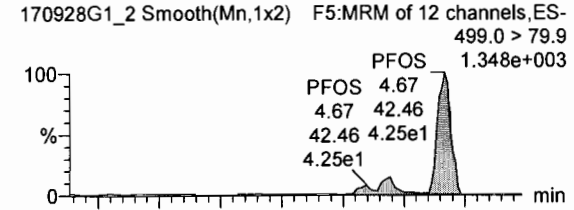
PFOA



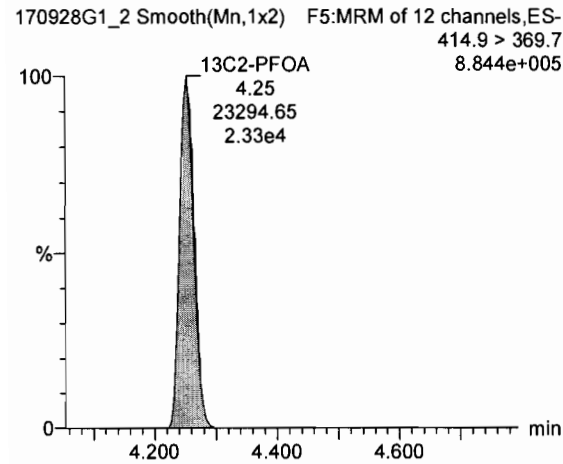
PFNA



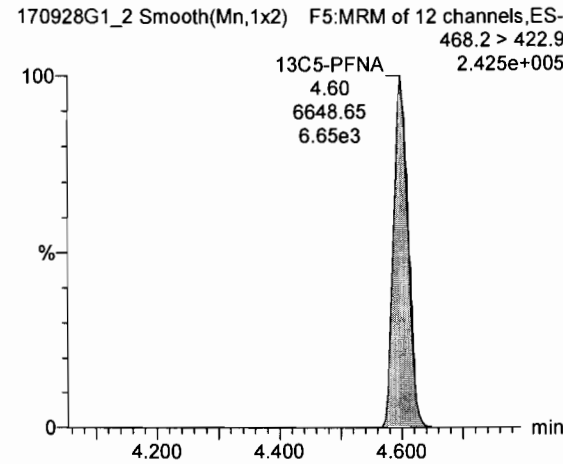
PFOS



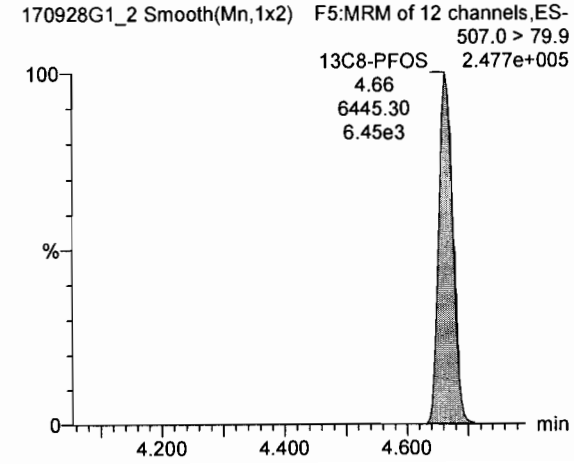
13C2-PFOA



13C5-PFNA



13C8-PFOS



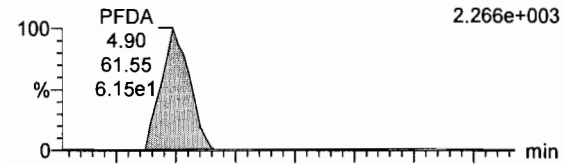
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
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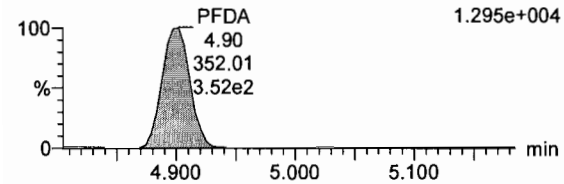
Name: 170928G1_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 17I2622, Description: PFC CS-2 17I2622

PFDA

170928G1_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-512.7 > 219.0
2.266e+003

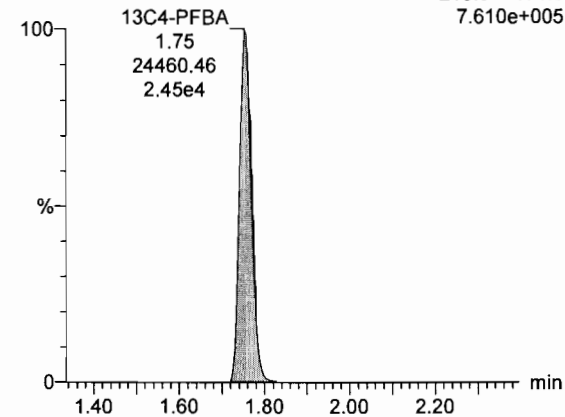


170928G1_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-512.7 > 468.7
1.295e+004



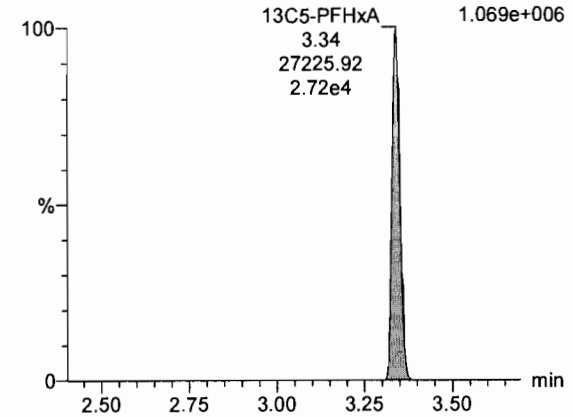
13C4-PFBA

170928G1_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-216.9 > 171.8
7.610e+005



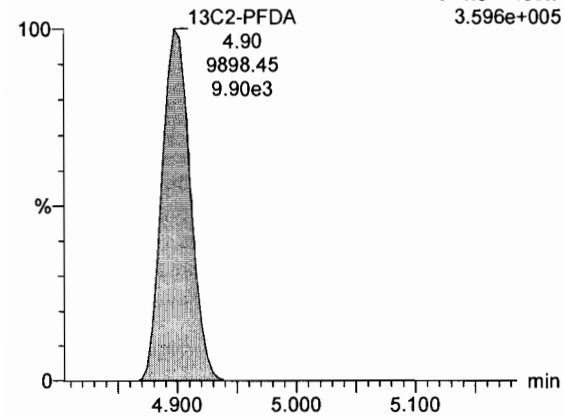
13C5-PFHxA

170928G1_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-318 > 272.9
1.069e+006



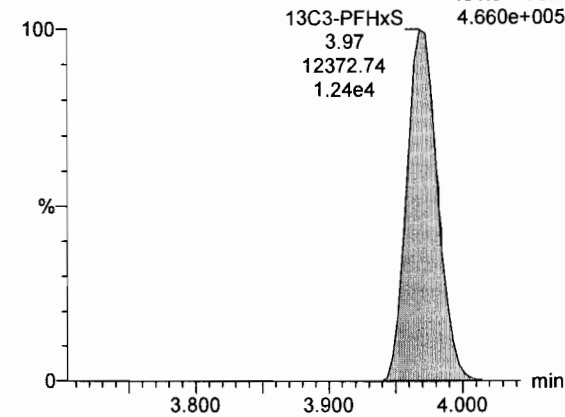
13C2-PFDA

170928G1_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-514.8 > 469.7
3.596e+005



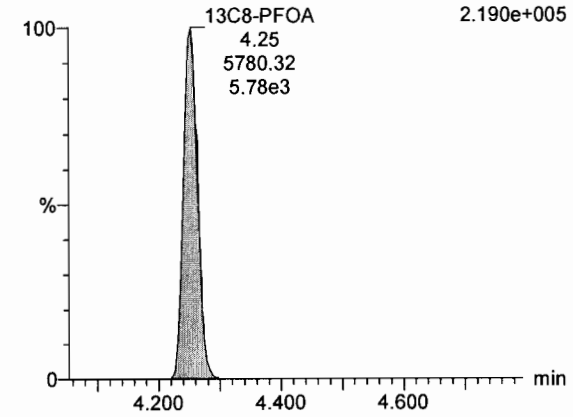
13C3-PFHxS

170928G1_2 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-401.9 > 79.9
4.660e+005



13C8-PFOA

170928G1_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-421.3 > 376
2.190e+005



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

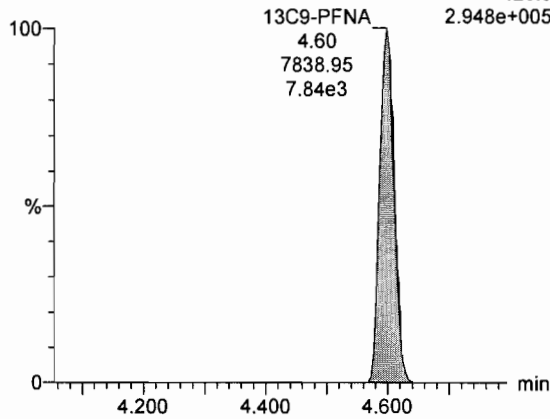
Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 17I2622, Description: PFC CS-2 17I2622

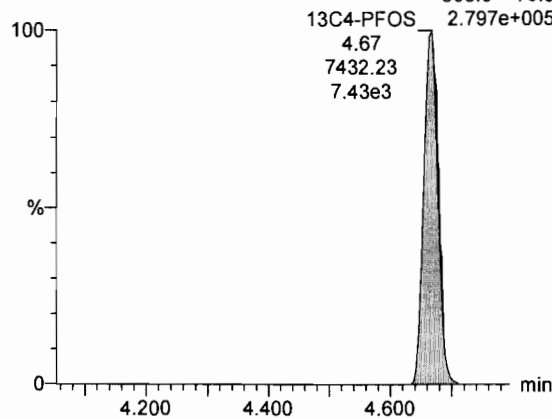
13C9-PFNA

170928G1_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
2.948e+005



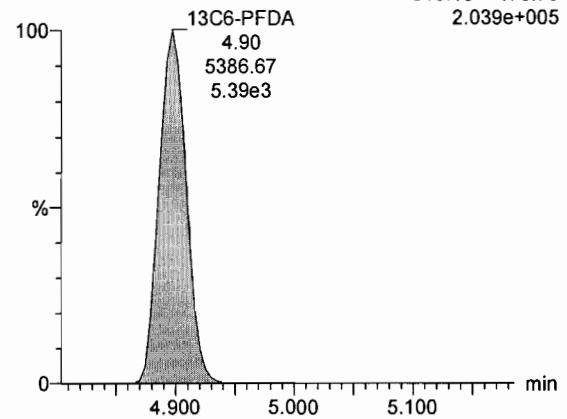
13C4-PFOS

170928G1_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.797e+005



13C6-PFDA

170928G1_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
2.039e+005



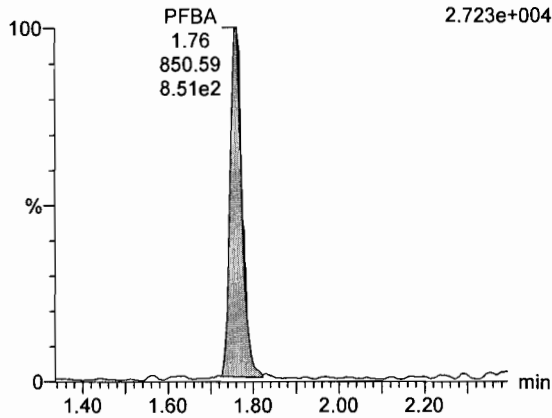
Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

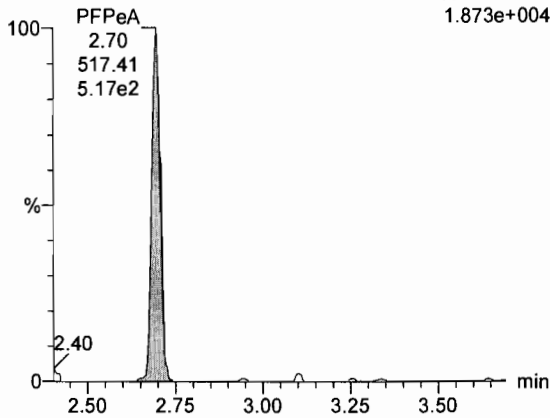
PFBA

170928G1_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
212.9 > 168.9
2.723e+004



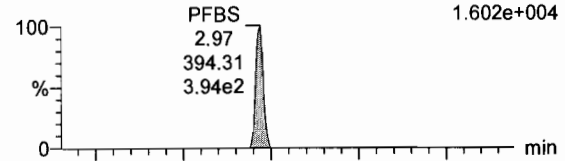
PFPeA

170928G1_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
263.0 > 218.8
1.873e+004

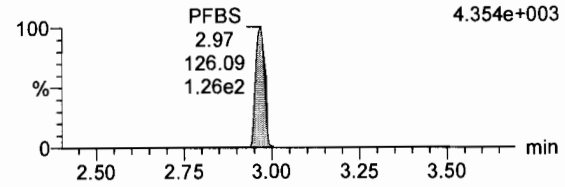


PFBS

170928G1_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299.0 > 79.7
1.602e+004

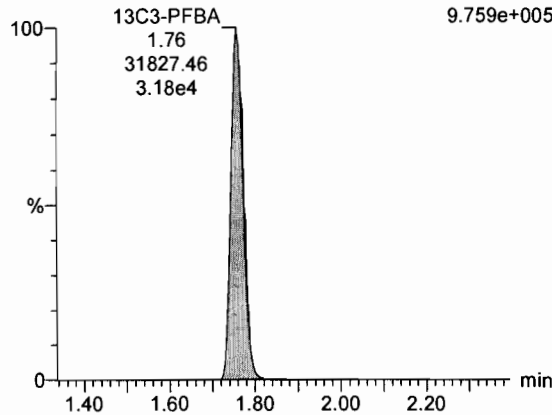


170928G1_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299 > 98.7
4.354e+003



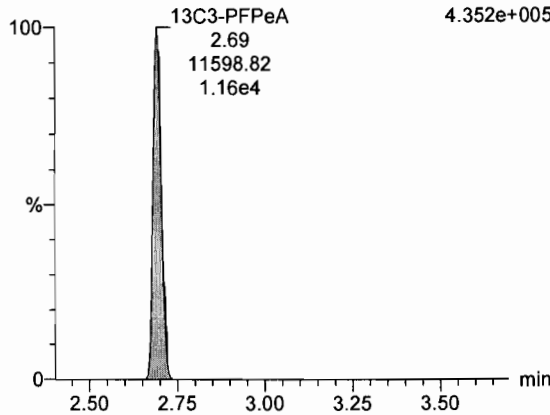
13C3-PFBA

170928G1_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
215.9 > 171.8
9.759e+005



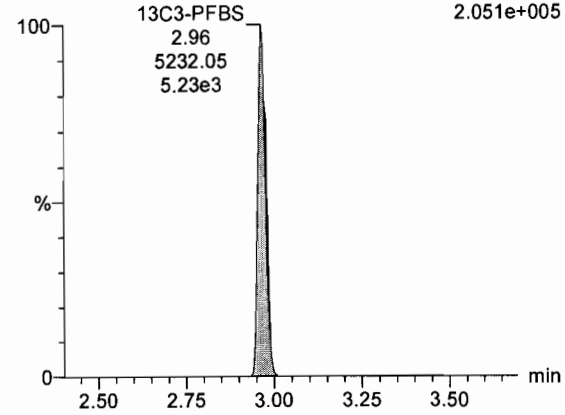
13C3-PFPeA

170928G1_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
266.0 > 221.8
4.352e+005



13C3-PFBS

170928G1_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
302.0 > 98.8
2.051e+005

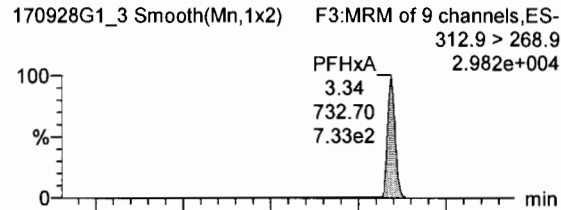


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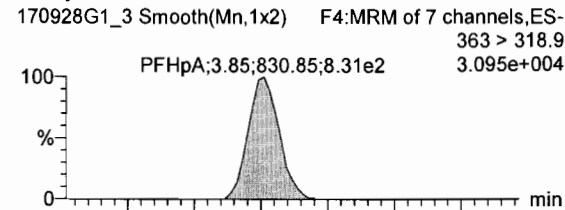
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

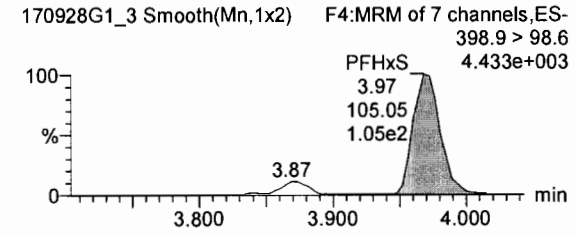
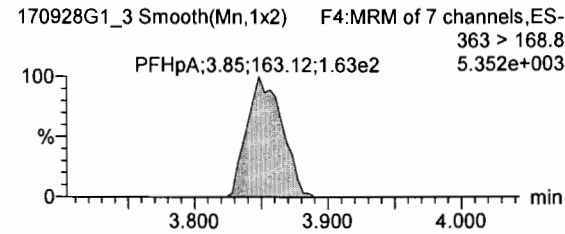
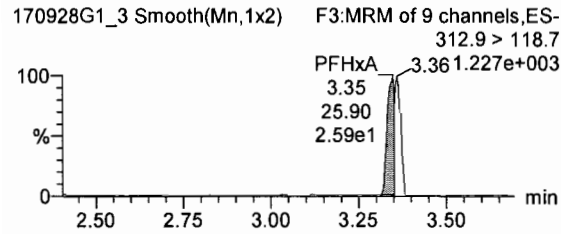
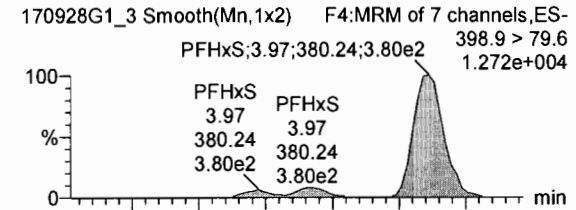
PFHxA



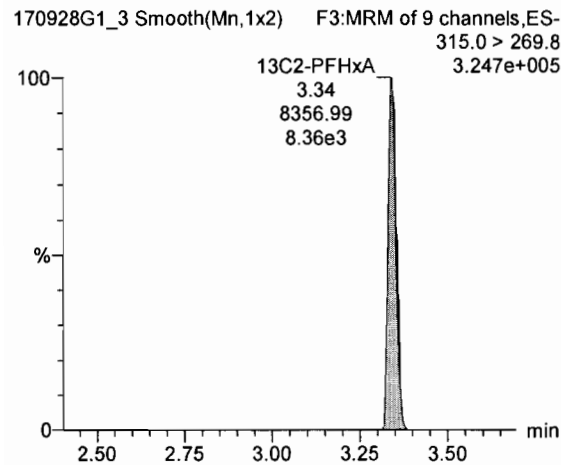
PFHpA



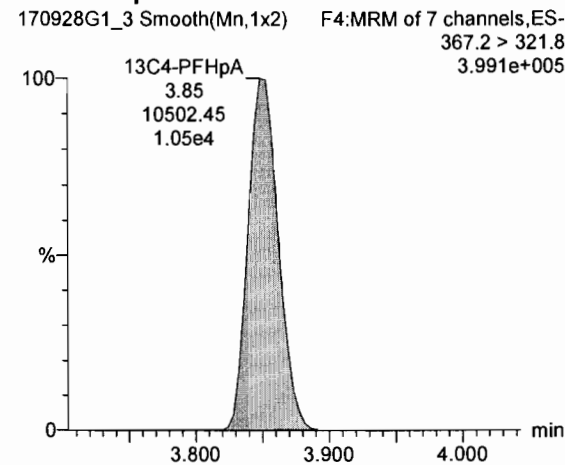
PFHxS



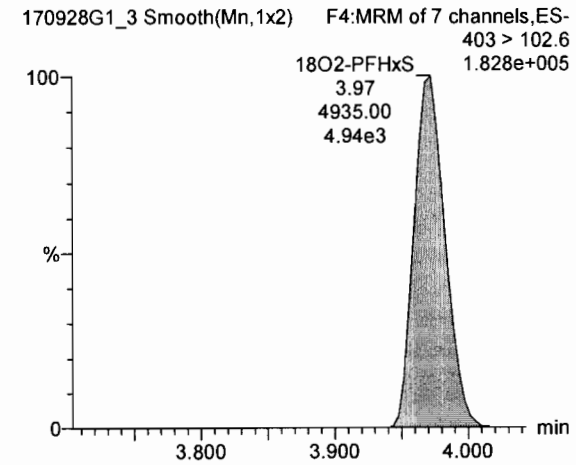
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

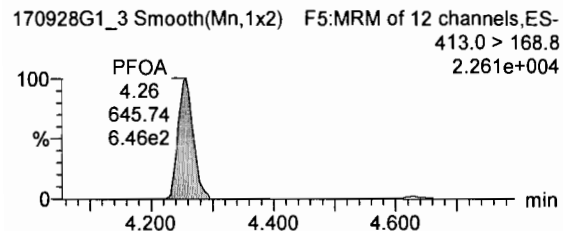
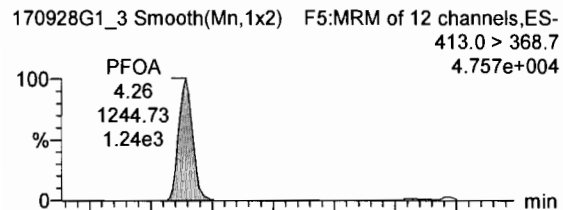


Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

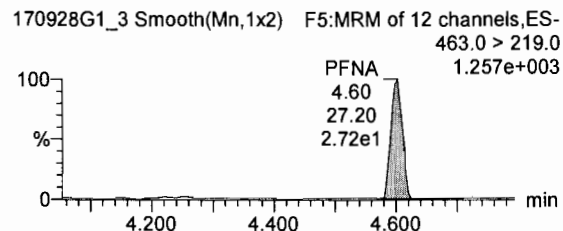
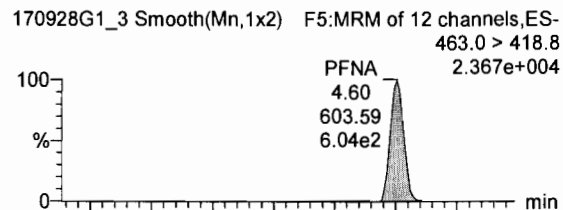
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

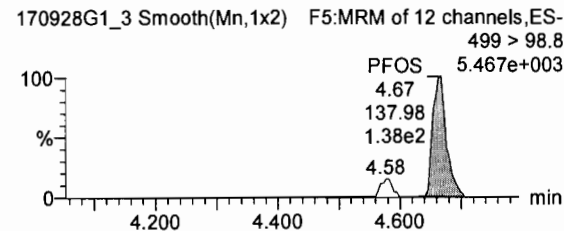
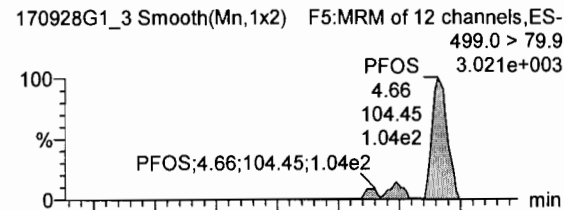
PFOA



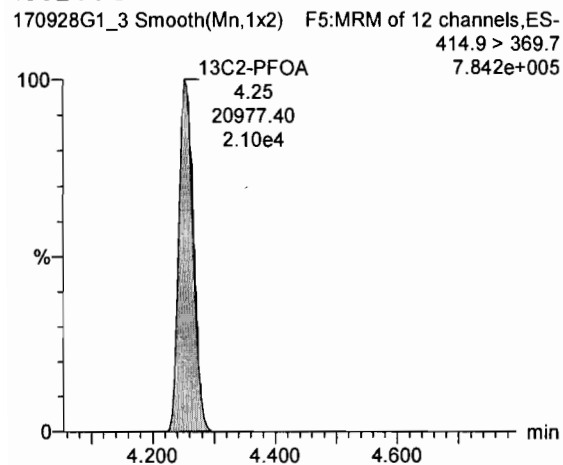
PFNA



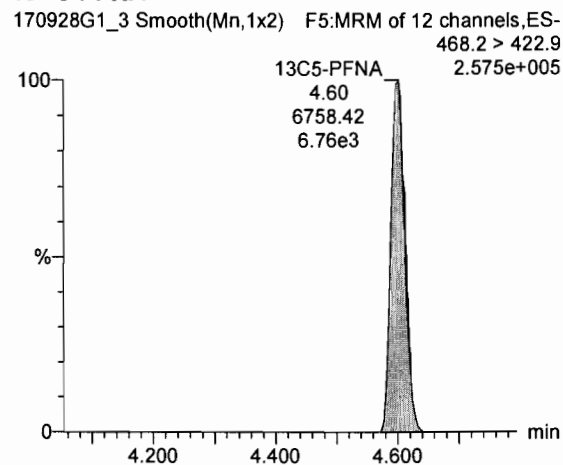
PFOS



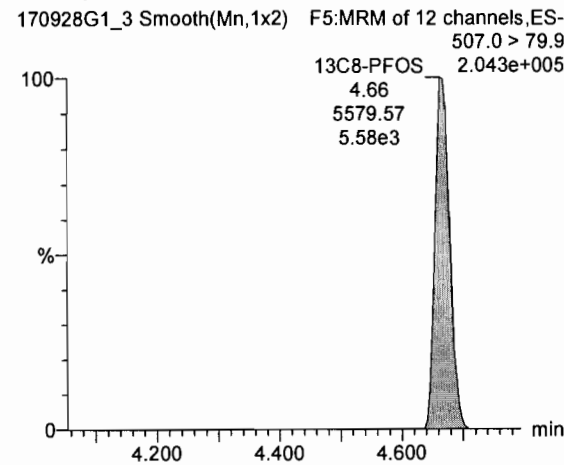
13C2-PFOA



13C5-PFNA



13C8-PFOS



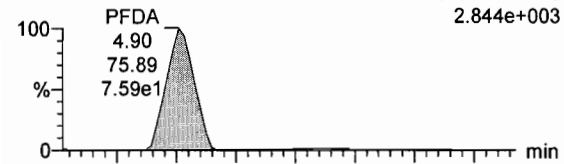
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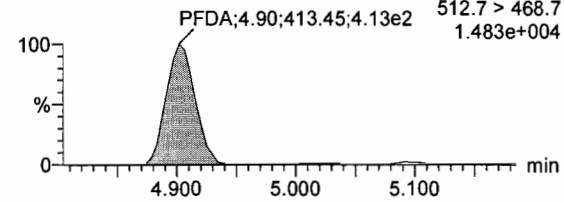
Name: 170928G1_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

PFDA

170928G1_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 219.0
2.844e+003

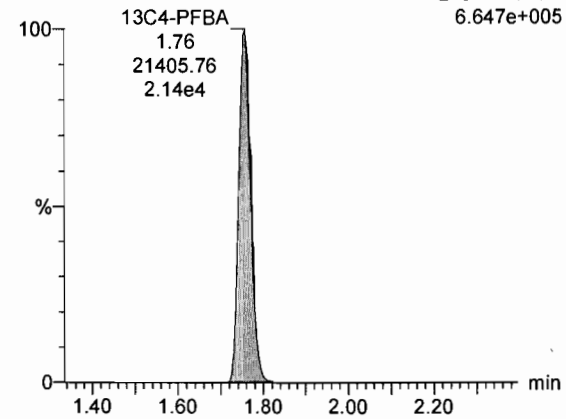


170928G1_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 468.7
1.483e+004



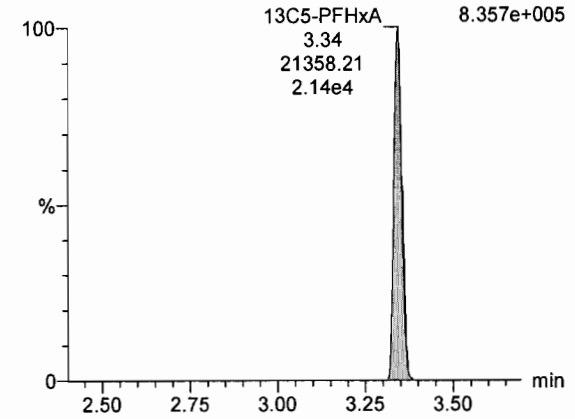
13C4-PFBA

170928G1_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
216.9 > 171.8
6.647e+005



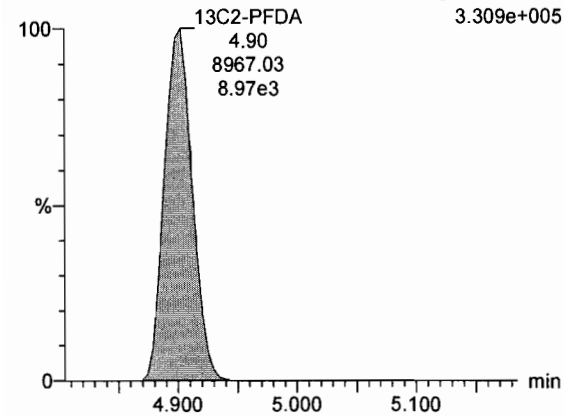
13C5-PFHxA

170928G1_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
318 > 272.9
8.357e+005



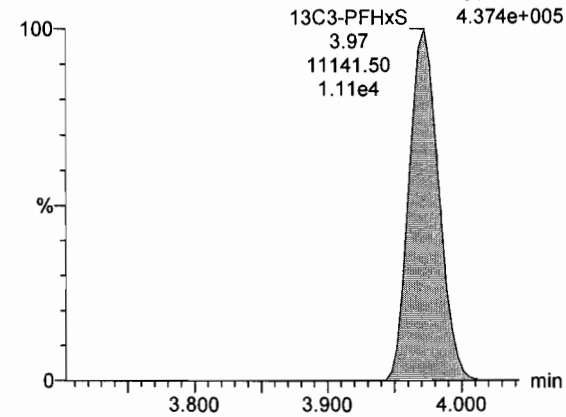
13C2-PFDA

170928G1_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
514.8 > 469.7
3.309e+005



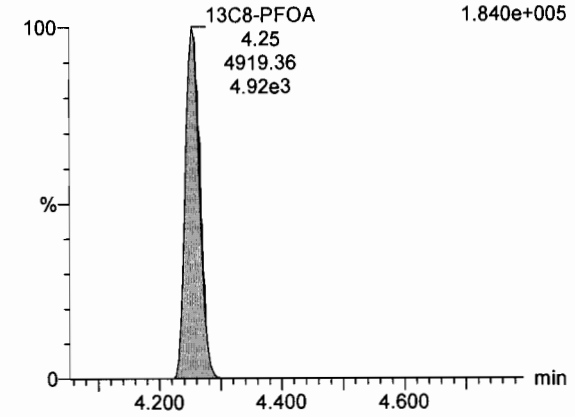
13C3-PFHxS

170928G1_3 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-
401.9 > 79.9
4.374e+005



13C8-PFOA

170928G1_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
421.3 > 376
1.840e+005



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

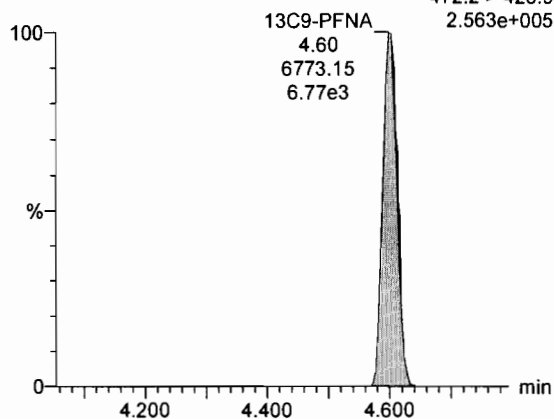
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Name: 170928G1_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

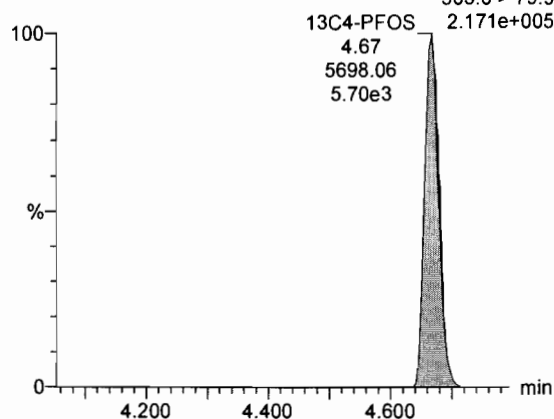
13C9-PFNA

170928G1_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
2.563e+005



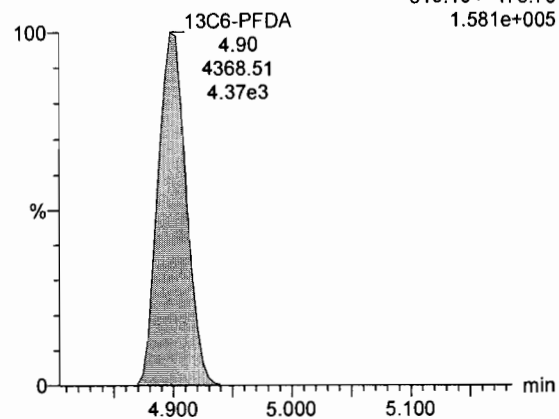
13C4-PFOS

170928G1_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.171e+005



13C6-PFDA

170928G1_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
1.581e+005

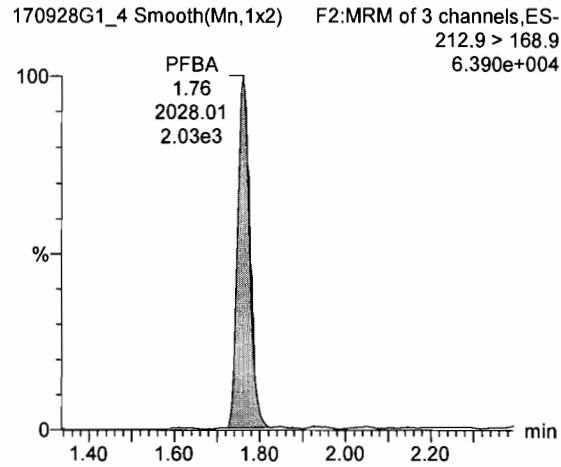


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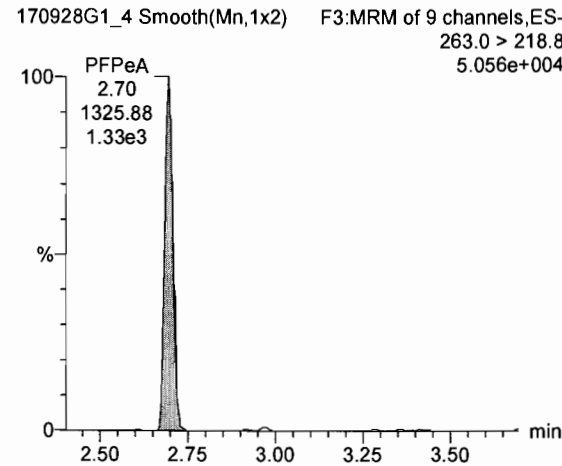
Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
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Name: 170928G1_4, Date: 28-Sep-2017, Time: 09:02:05, ID: ST170928G1-3 PFC CS0 1712624, Description: PFC CS0 1712624

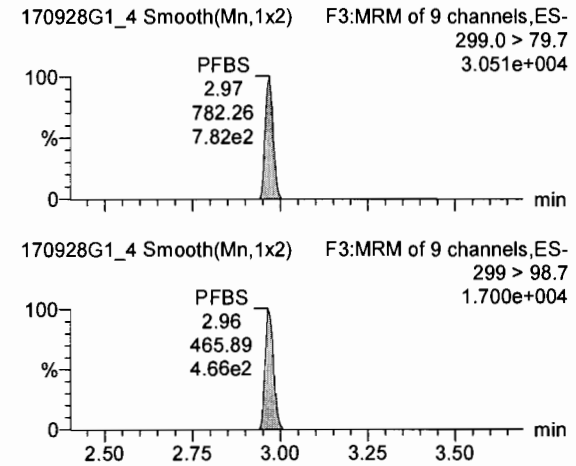
PFBA



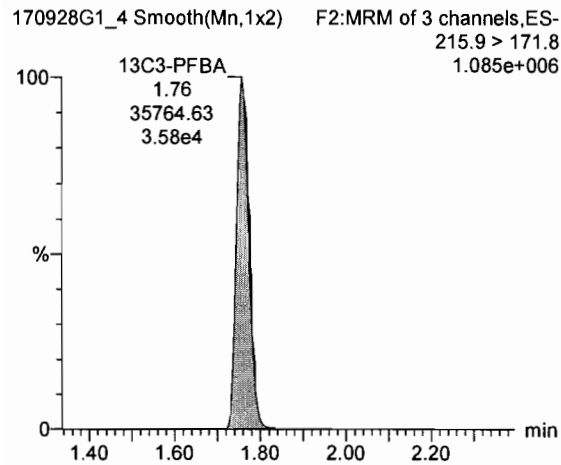
PFPeA



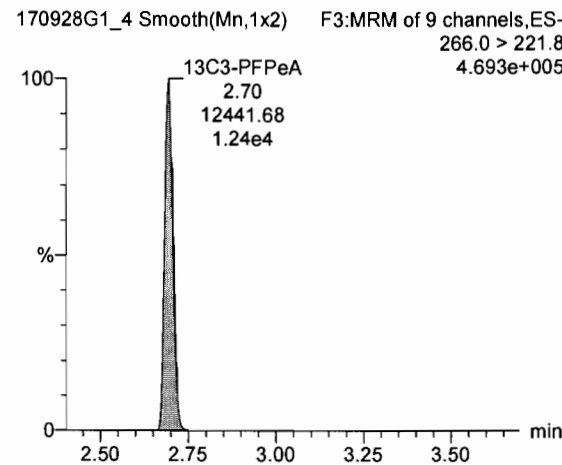
PFBS



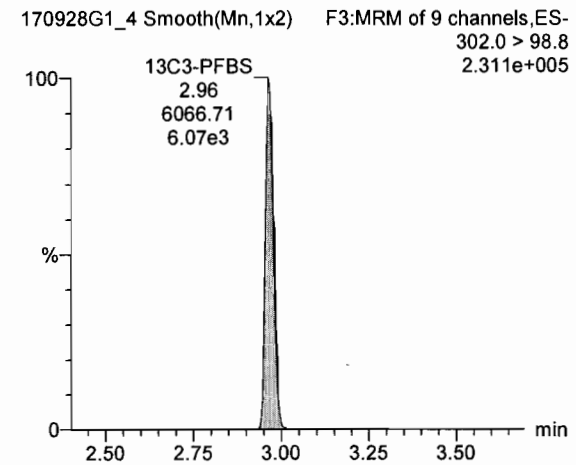
13C3-PFBA



13C3-PFPeA



13C3-PFBS

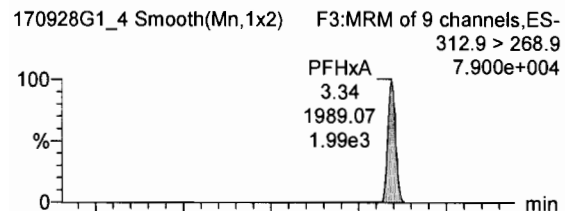


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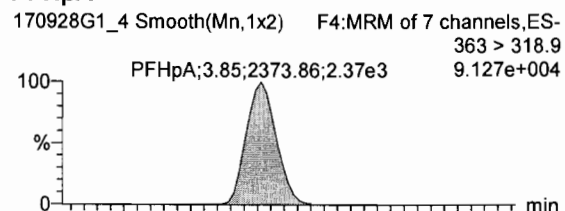
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

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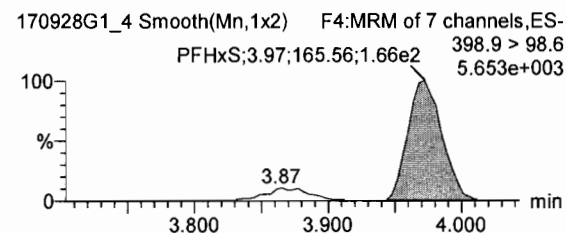
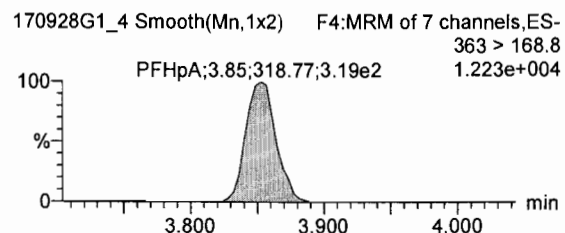
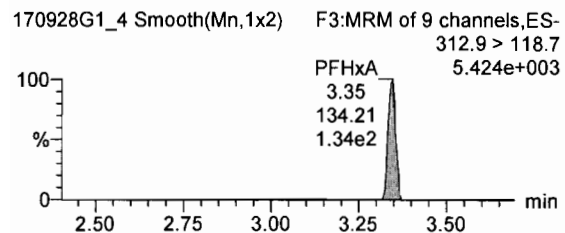
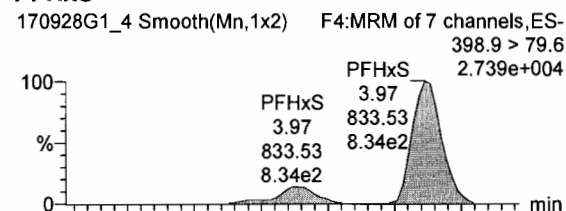
PFHxA



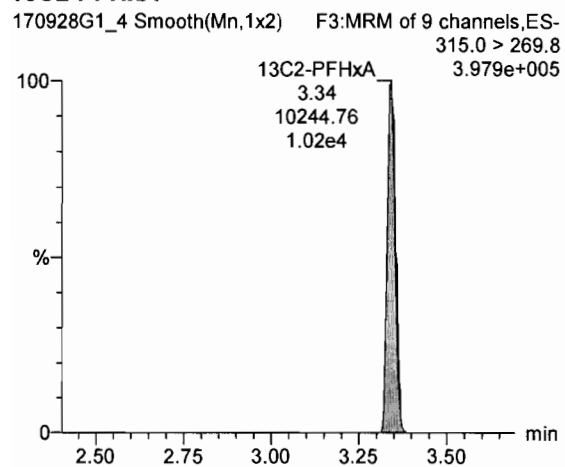
PFHpA



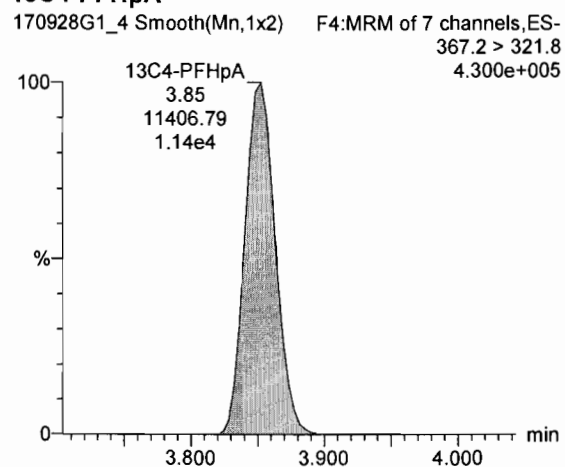
PFHxS



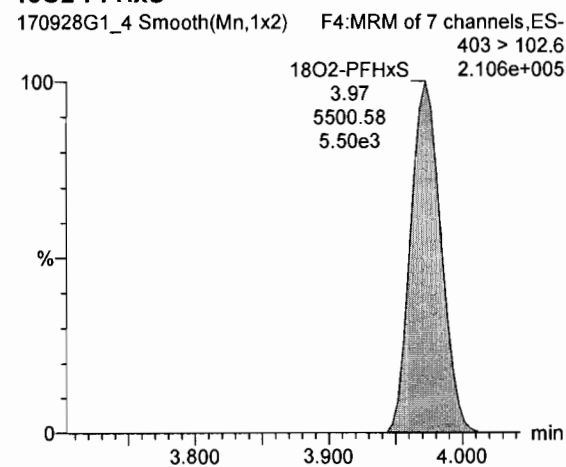
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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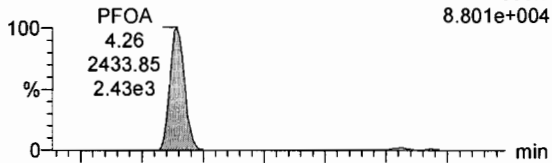
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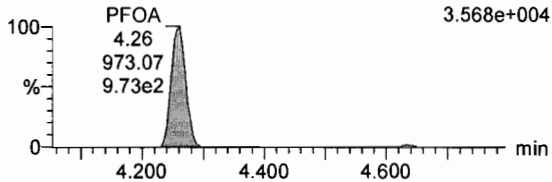
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PFOA

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7
8.801e+004

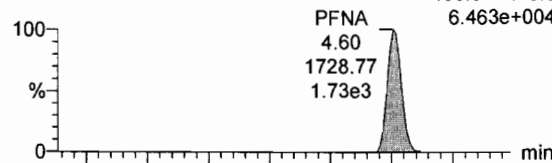


170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8
3.568e+004

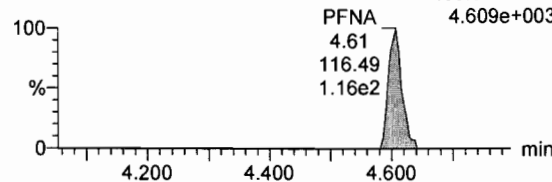


PFNA

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8
6.463e+004

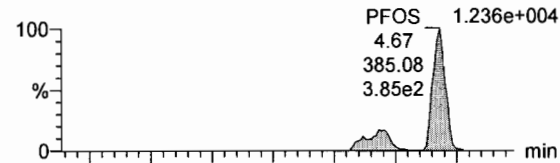


170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0
4.609e+003

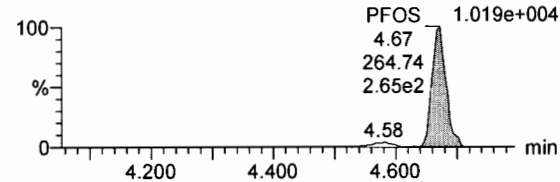


PFOS

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9
1.236e+004

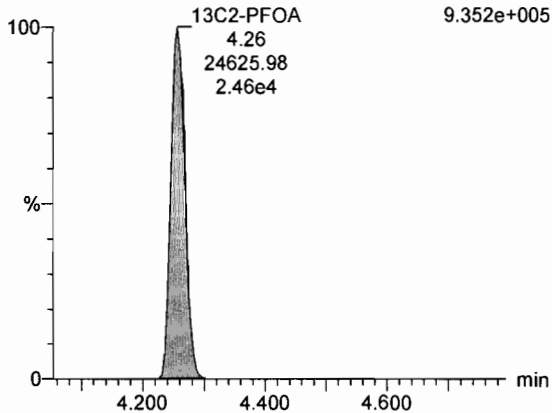


170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8
1.019e+004



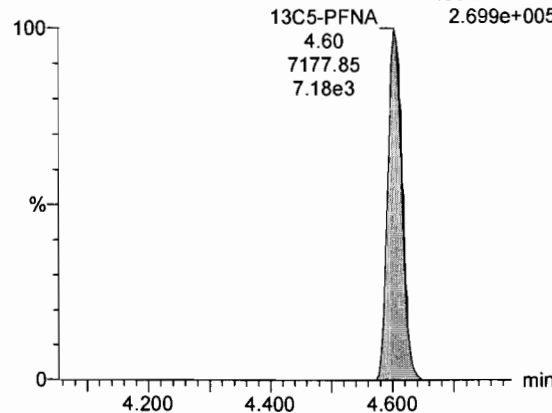
13C2-PFOA

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7
9.352e+005



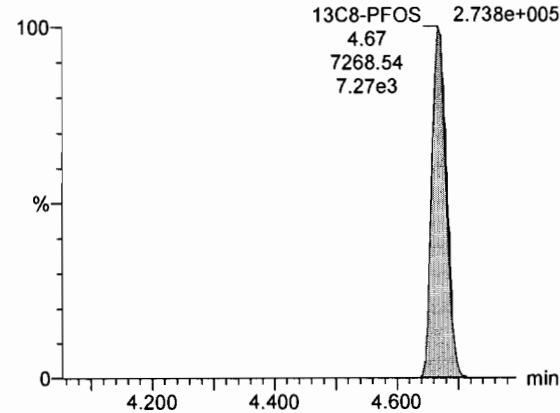
13C5-PFNA

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9
2.699e+005



13C8-PFOS

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9
2.738e+005



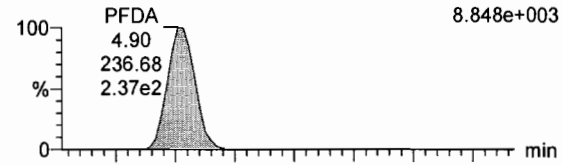
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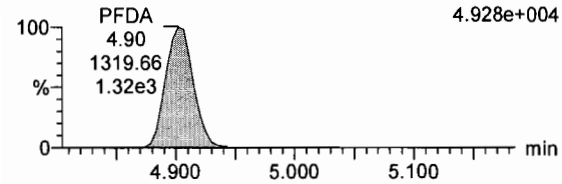
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PFDA

170928G1_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 219.0
8.848e+003

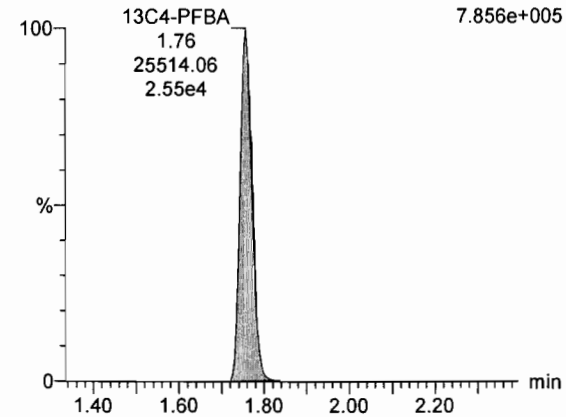


170928G1_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 468.7
4.928e+004



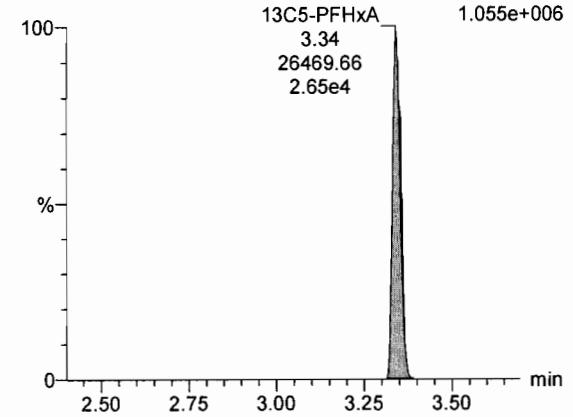
13C4-PFBA

170928G1_4 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
216.9 > 171.8
7.856e+005



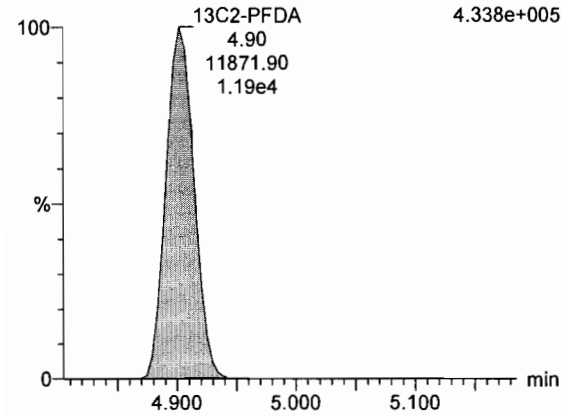
13C5-PFHxA

170928G1_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
318 > 272.9
1.055e+006



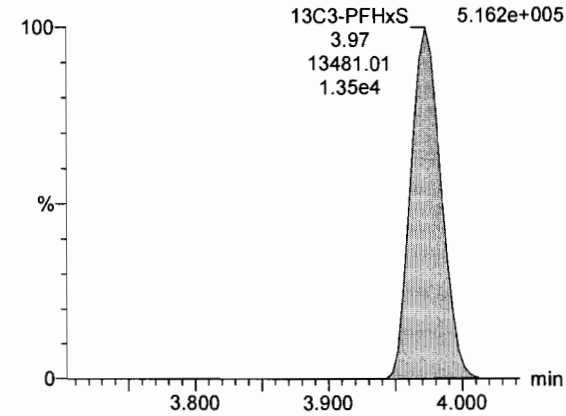
13C2-PFDA

170928G1_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
514.8 > 469.7
4.338e+005



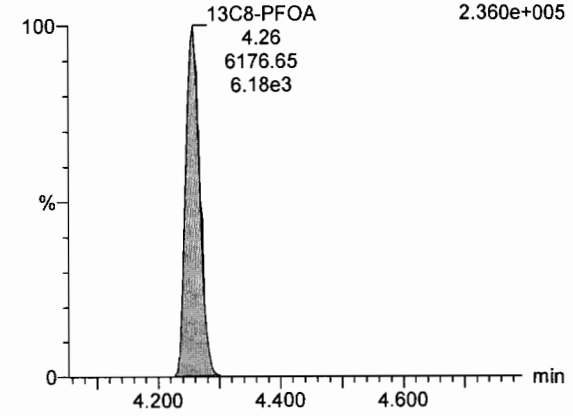
13C3-PFHxS

170928G1_4 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-
401.9 > 79.9
5.162e+005



13C8-PFOA

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
421.3 > 376
2.360e+005



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

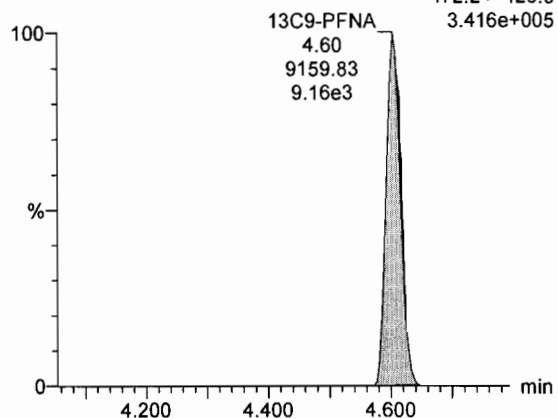
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13C9-PFNA

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-

472.2 > 426.9

3.416e+005

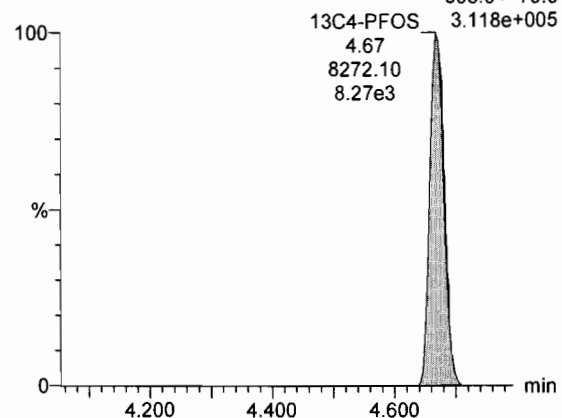


13C4-PFOS

170928G1_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-

503.0 > 79.9

3.118e+005



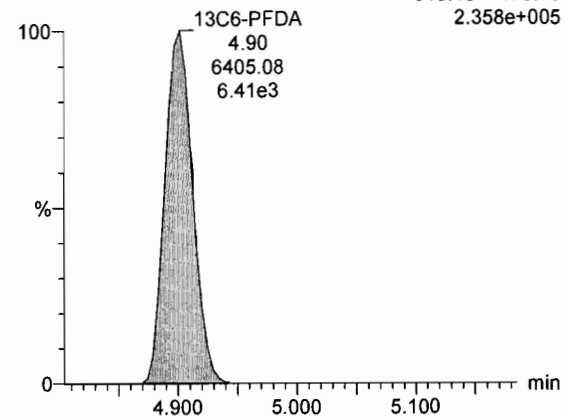
13C6-PFDA

170928G1_4 Smooth(Mn,1x2)

F6:MRM of 4 channels,ES-

519.10 > 473.70

2.358e+005

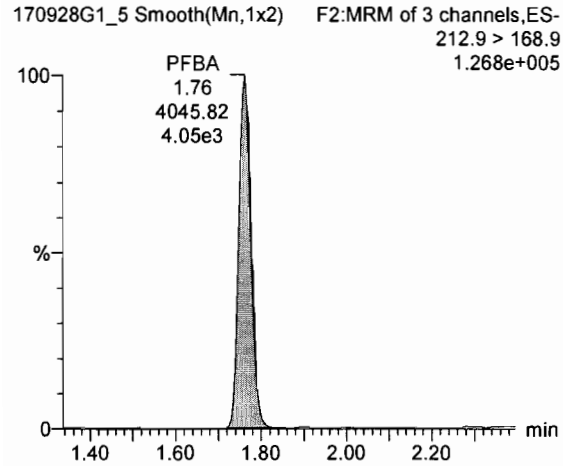


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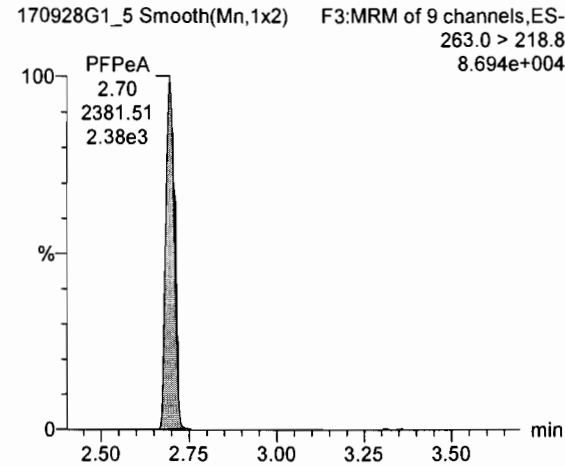
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Name: 170928G1_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

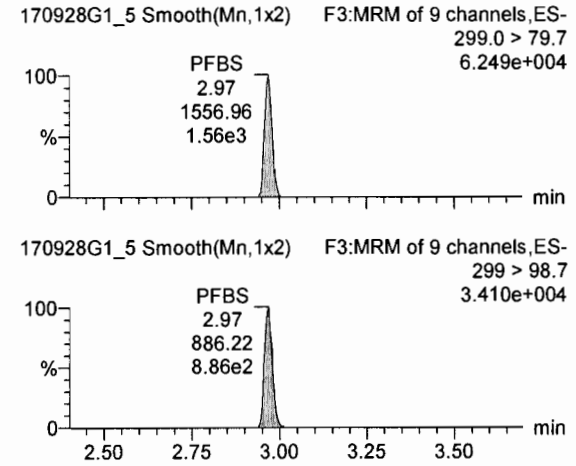
PFBA



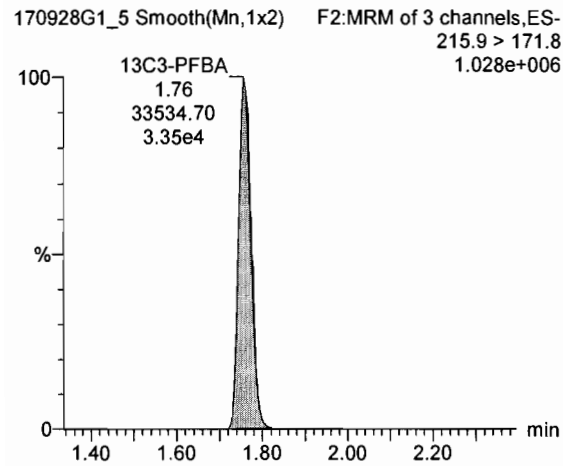
PFPeA



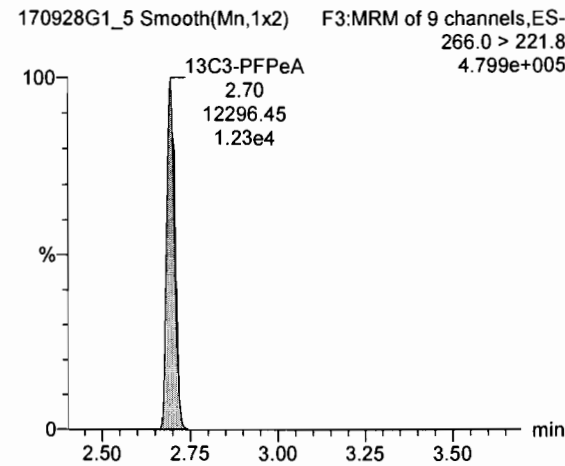
PFBS



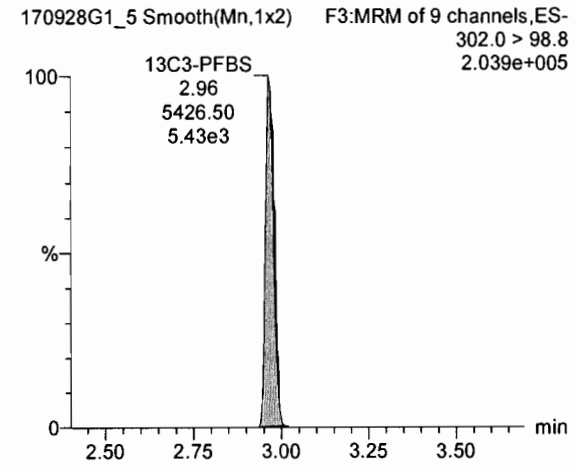
¹³C3-PFBA



¹³C3-PFPeA



¹³C3-PFBS

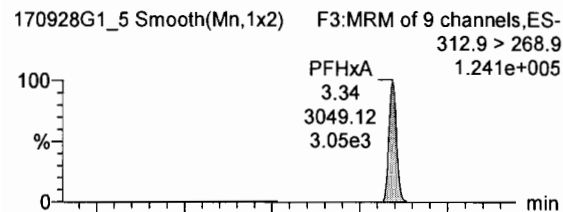


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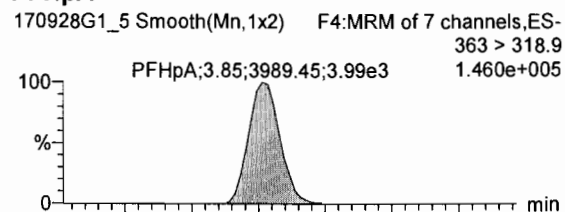
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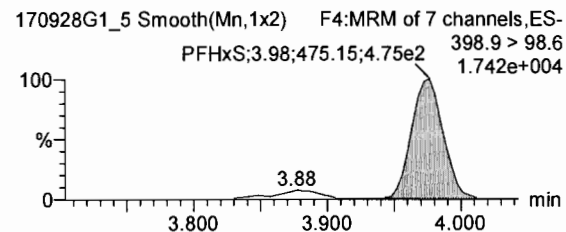
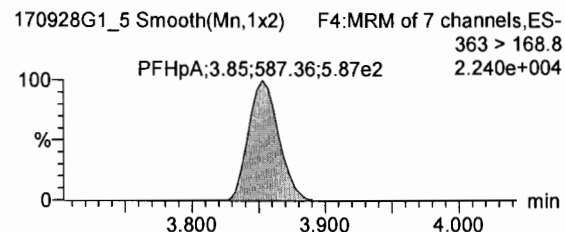
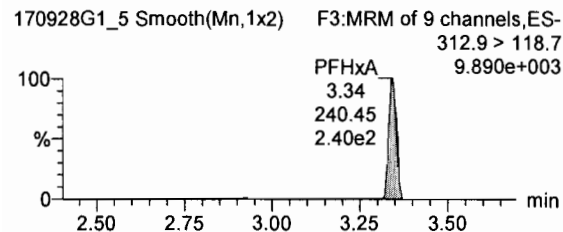
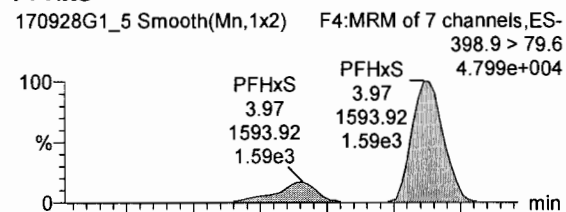
PFHxA



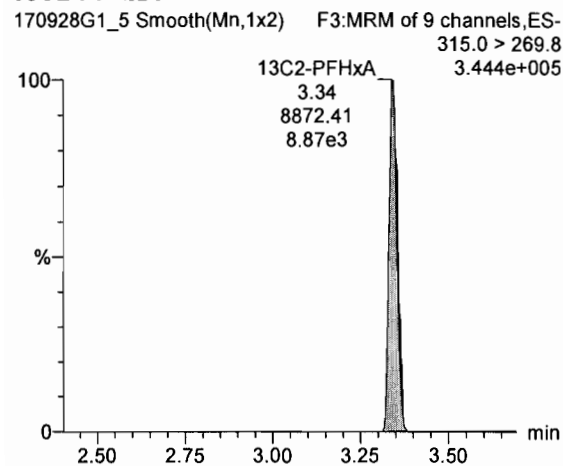
PFHpA



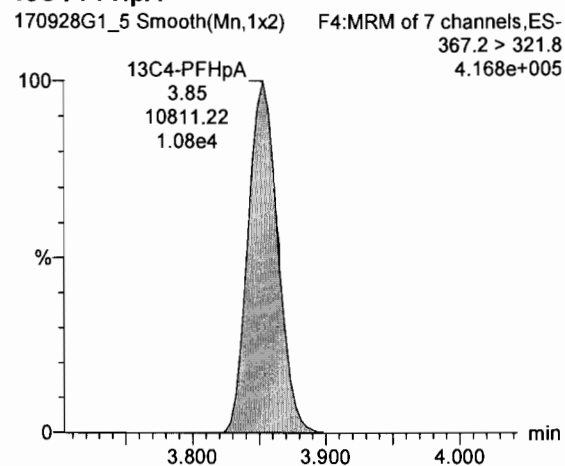
PFHxS



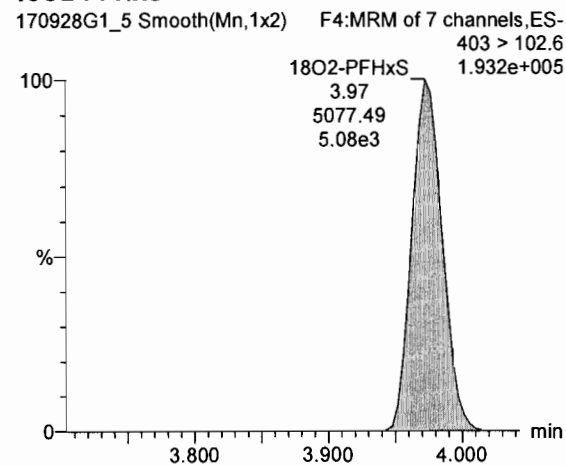
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



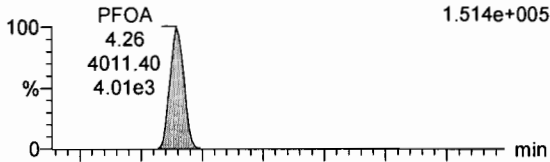
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

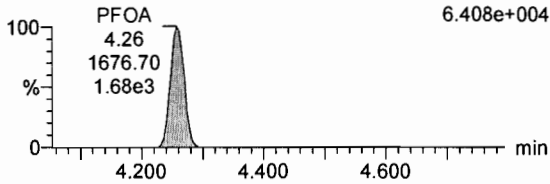
Name: 170928G1_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

PFOA

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7
1.514e+005

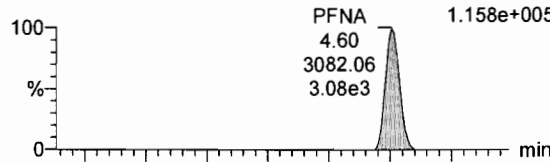


170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8
6.408e+004

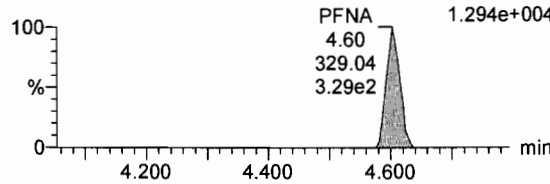


PFNA

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8
1.158e+005

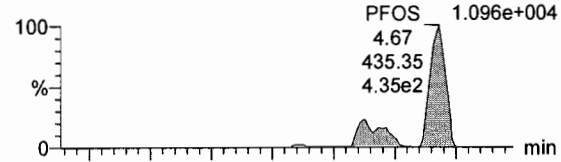


170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0
1.294e+004

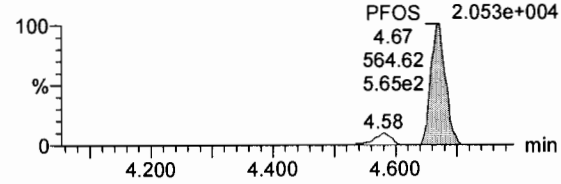


PFOS

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9
1.096e+004

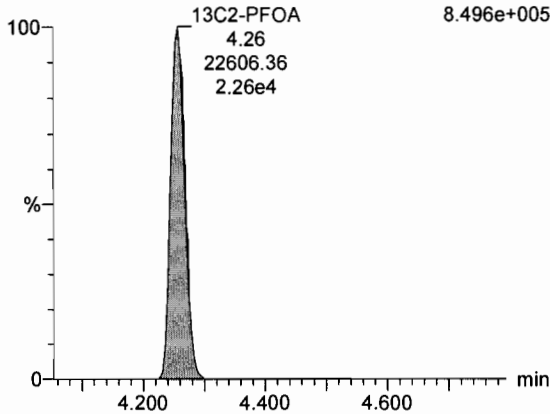


170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8
2.053e+004



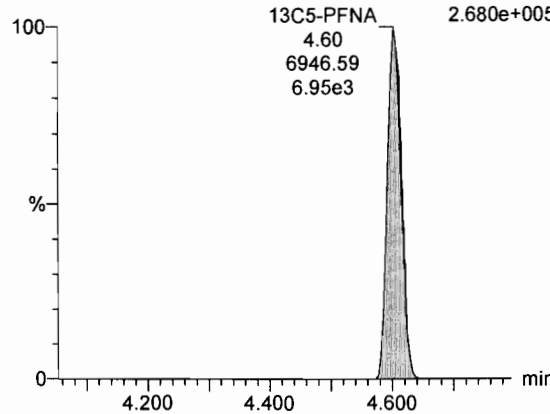
13C2-PFOA

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7
8.496e+005



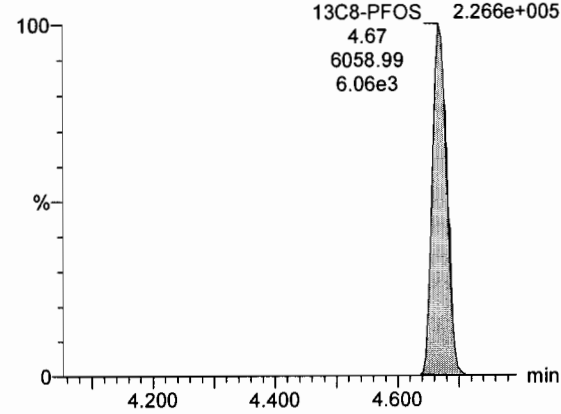
13C5-PFNA

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9
2.680e+005



13C8-PFOS

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9
2.266e+005

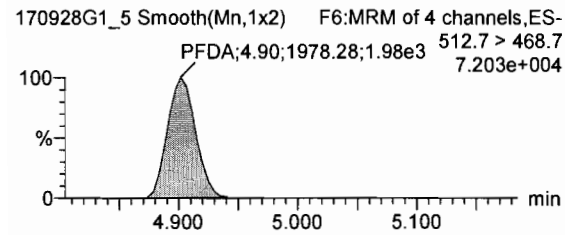
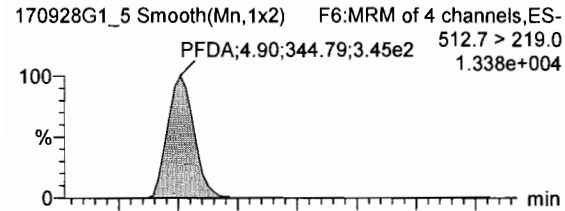


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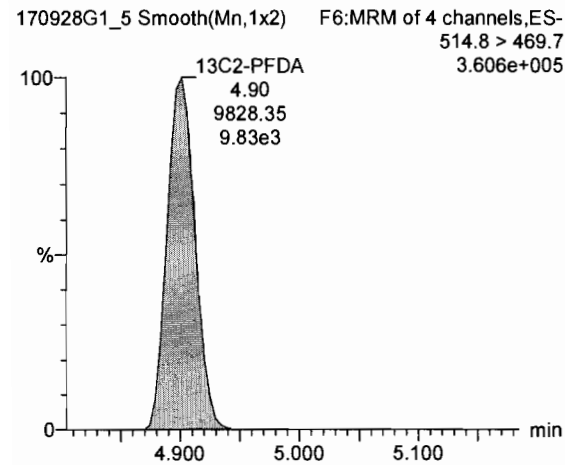
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

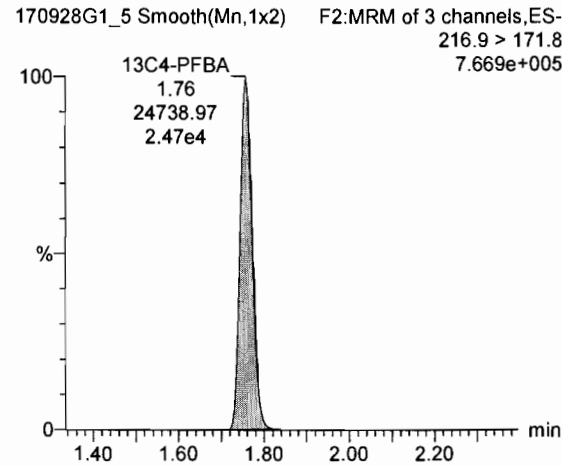
PFDA



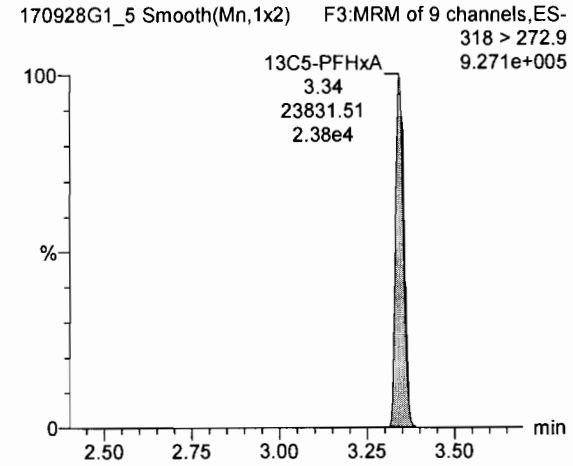
13C2-PFDA



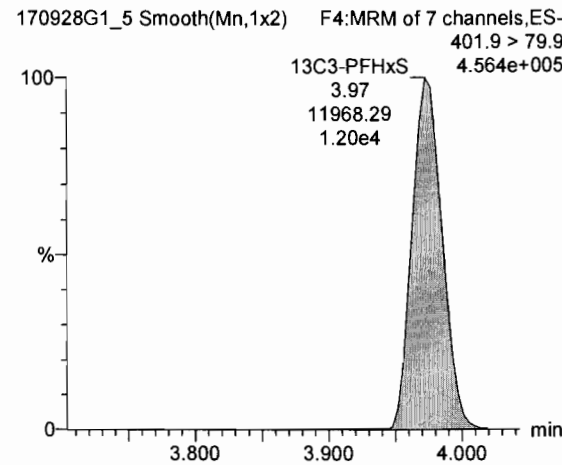
13C4-PFBA



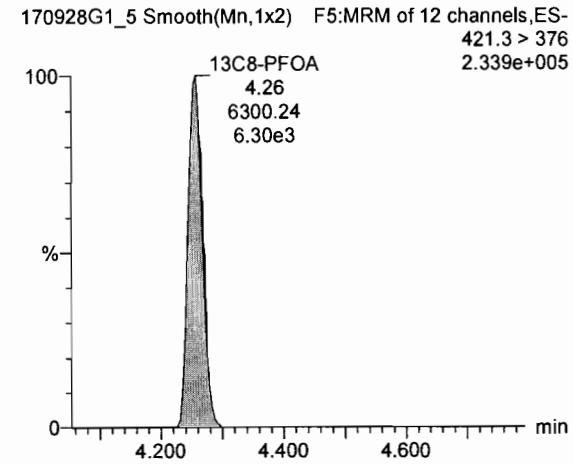
13C5-PFHxA



13C3-PFHxS



13C8-PFOA



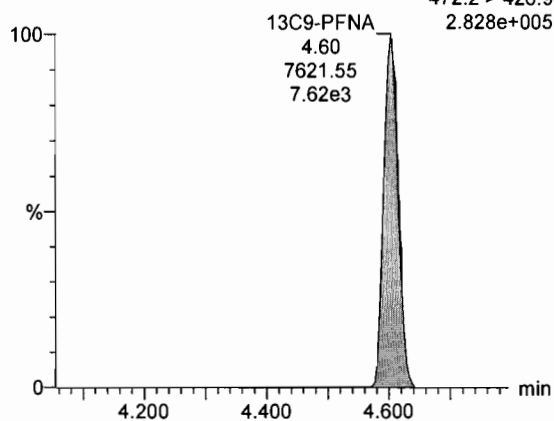
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Name: 170928G1_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

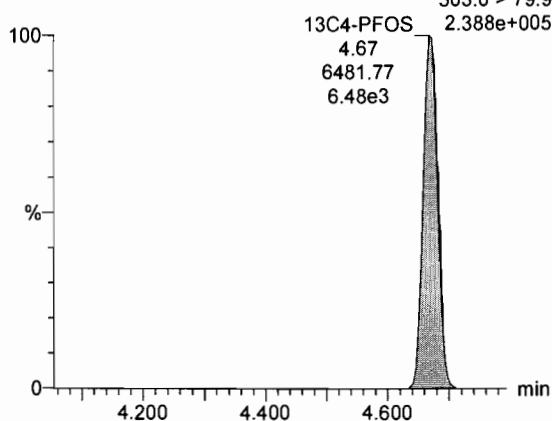
13C9-PFNA

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
2.828e+005



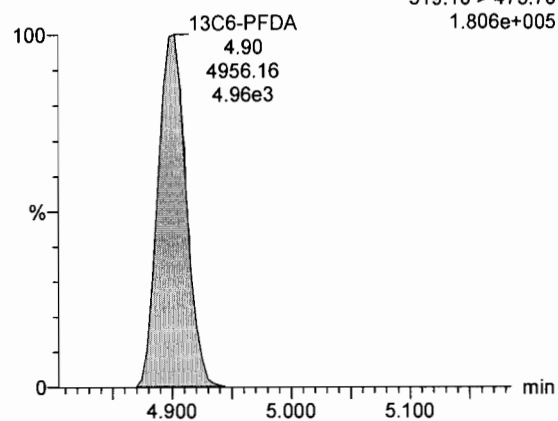
13C4-PFOS

170928G1_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.388e+005



13C6-PFDA

170928G1_5 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
1.806e+005



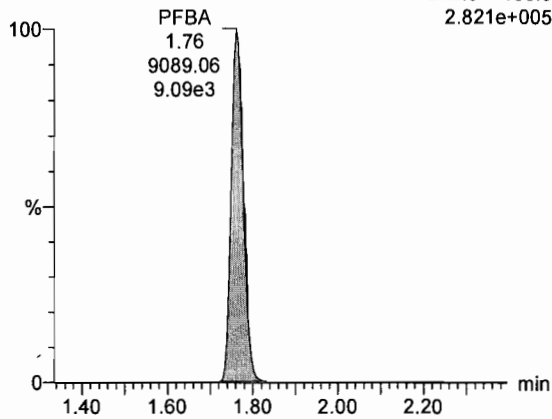
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 17I2626, Description: PFC CS2 17I2626

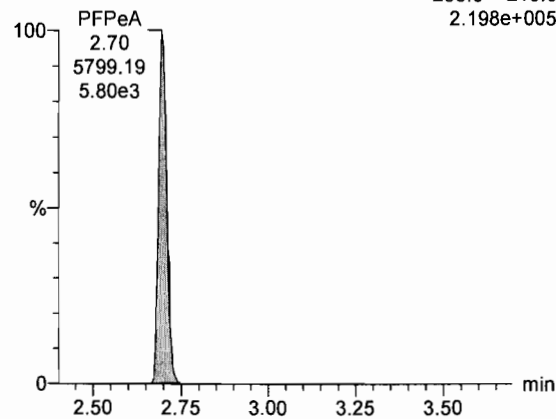
PFBA

170928G1_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
212.9 > 168.9
2.821e+005



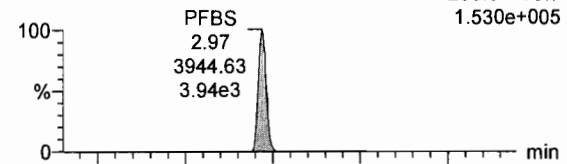
PFPeA

170928G1_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
263.0 > 218.8
2.198e+005

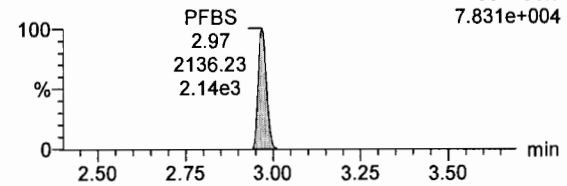


PFBS

170928G1_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299.0 > 79.7
1.530e+005

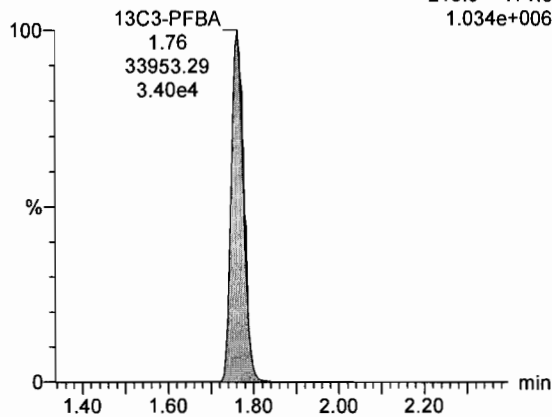


170928G1_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299 > 98.7
7.831e+004



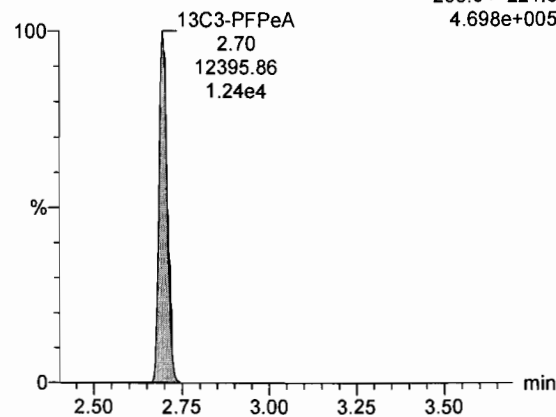
13C3-PFBA

170928G1_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
215.9 > 171.8
1.034e+006



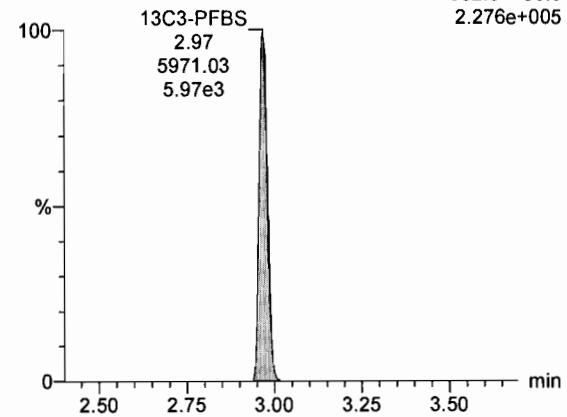
13C3-PFPeA

170928G1_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
266.0 > 221.8
4.698e+005



13C3-PFBS

170928G1_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
302.0 > 98.8
2.276e+005

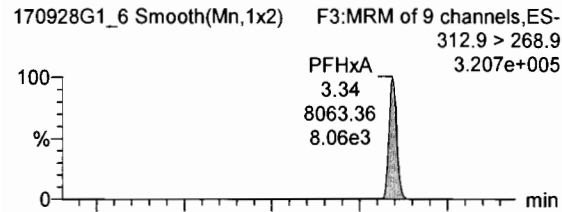


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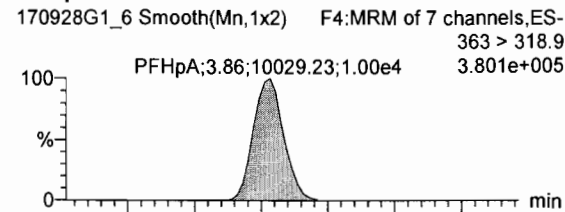
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 17I2626, Description: PFC CS2 17I2626

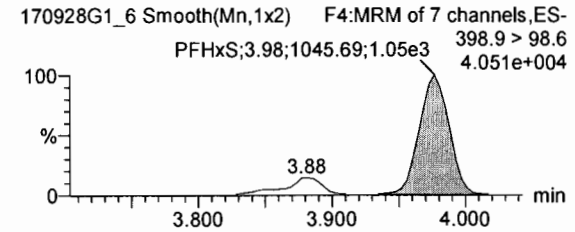
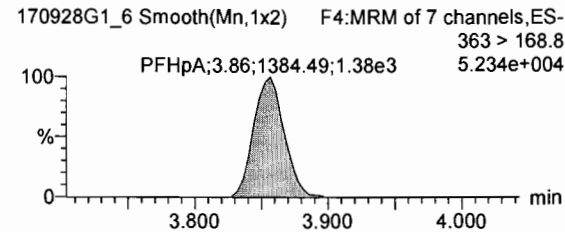
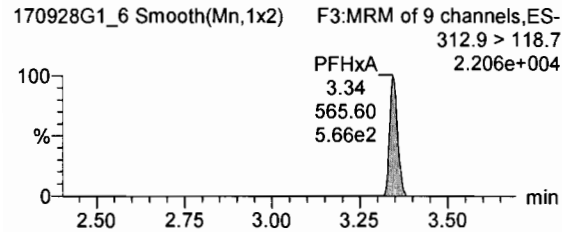
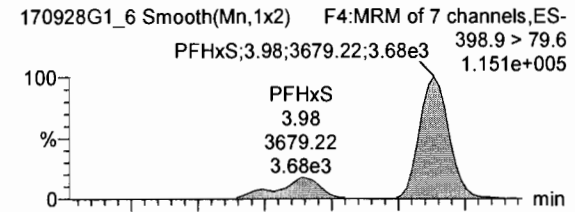
PFHxA



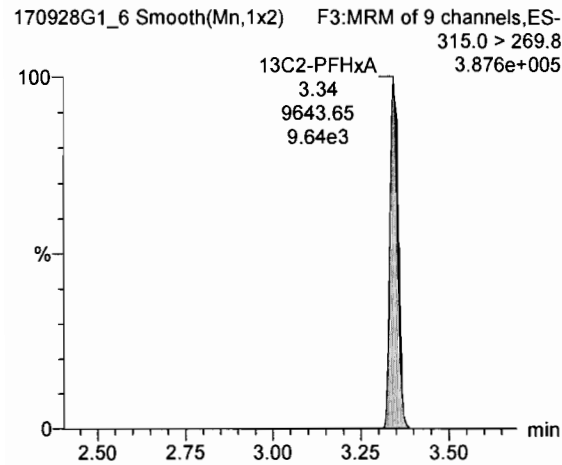
PFHpA



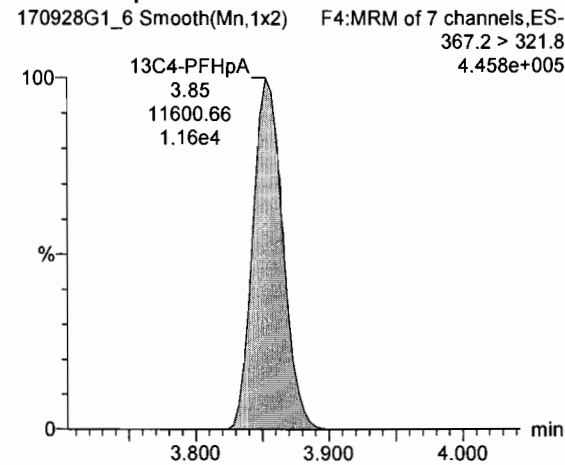
PFHxS



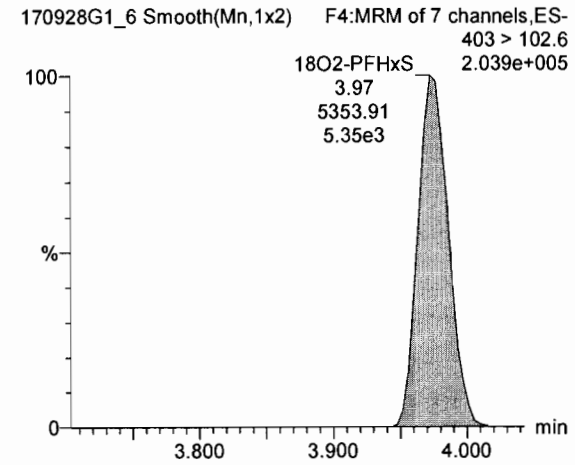
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



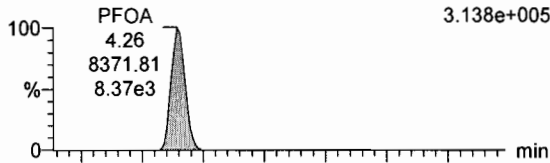
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 1712626, Description: PFC CS2 1712626

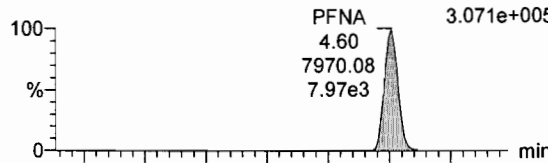
PFOA

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7
3.138e+005



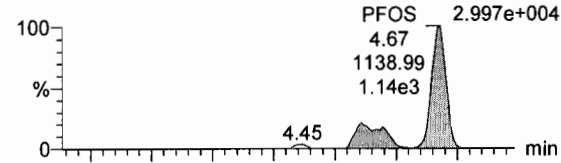
PFNA

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8
3.071e+005

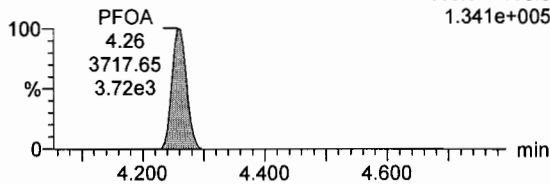


PFOS

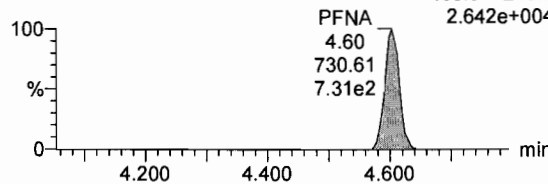
170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9
2.997e+004



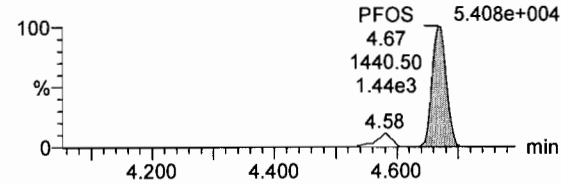
170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8
1.341e+005



170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0
2.642e+004

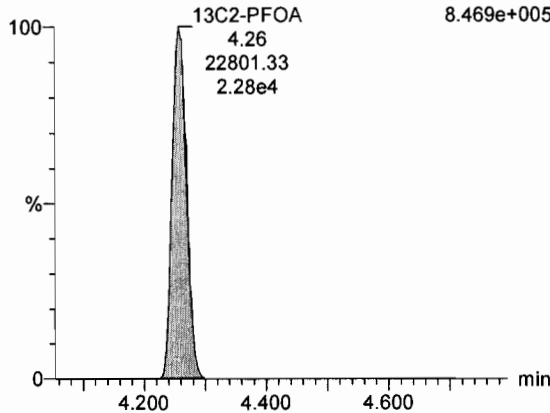


170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8
5.408e+004



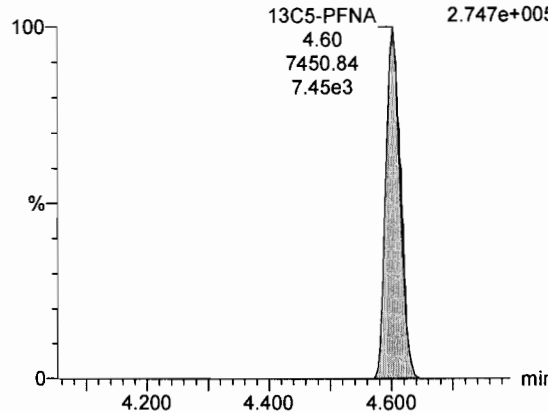
13C2-PFOA

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7
8.469e+005



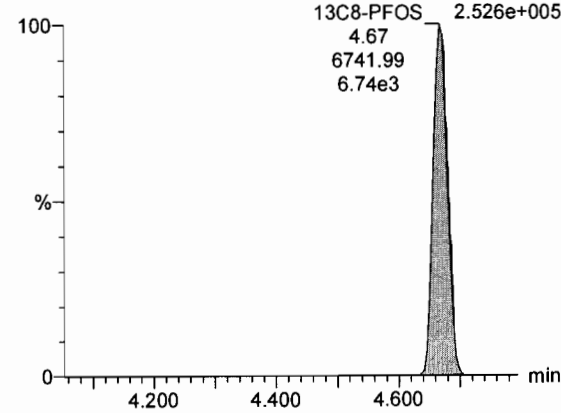
13C5-PFNA

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9
2.747e+005



13C8-PFOS

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9
2.526e+005



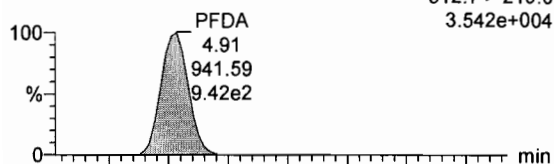
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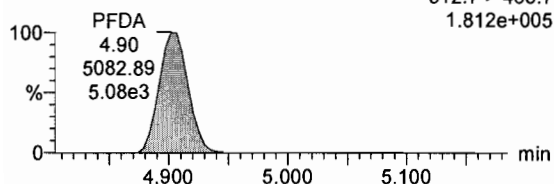
Name: 170928G1_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 1712626, Description: PFC CS2 1712626

PFDA

170928G1_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 219.0
3.542e+004

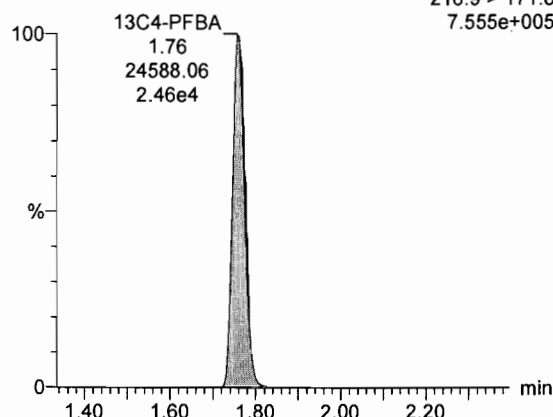


170928G1_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 468.7
1.812e+005



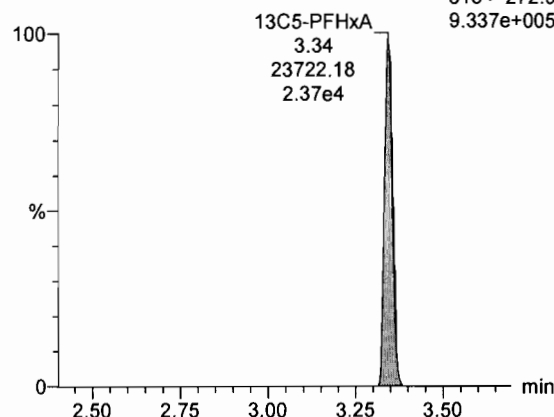
13C4-PFBA

170928G1_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
216.9 > 171.8
7.555e+005



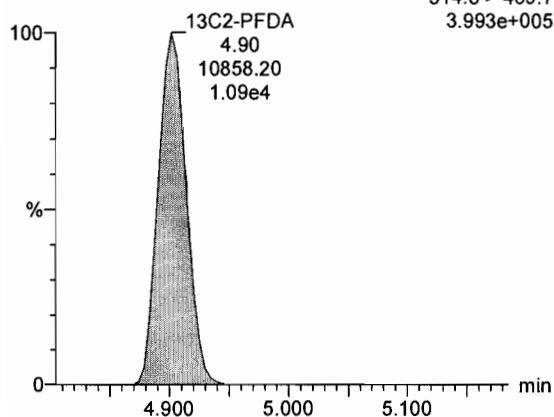
13C5-PFHxA

170928G1_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
318 > 272.9
9.337e+005



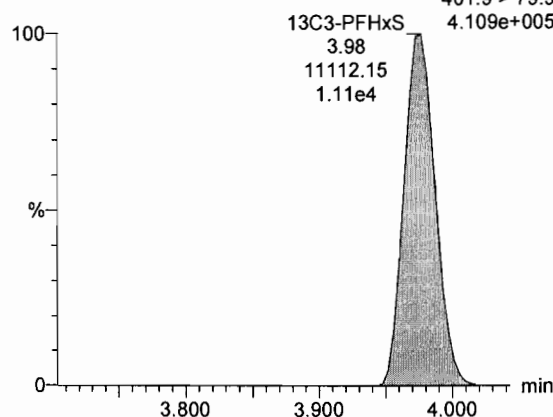
13C2-PFDA

170928G1_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
514.8 > 469.7
3.993e+005



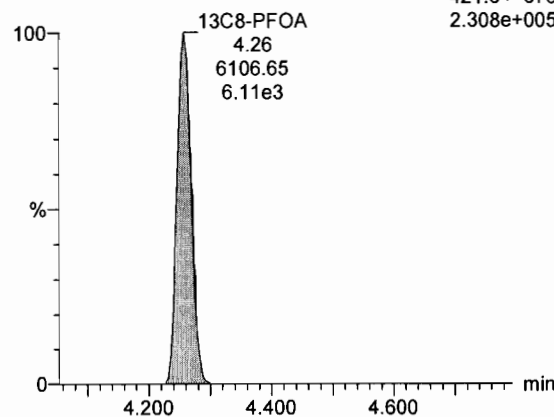
13C3-PFHxS

170928G1_6 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-
401.9 > 79.9
4.109e+005



13C8-PFOA

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
421.3 > 376
2.308e+005



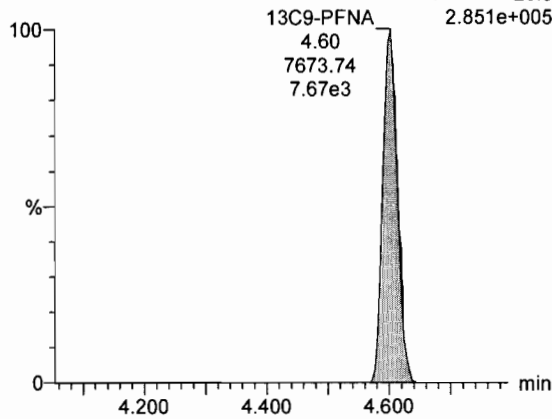
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Name: 170928G1_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 1712626, Description: PFC CS2 1712626

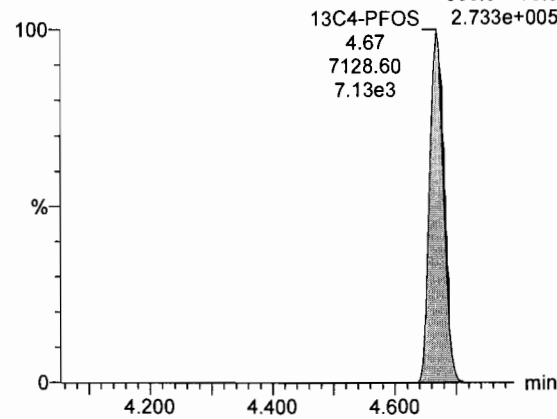
13C9-PFNA

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
2.851e+005



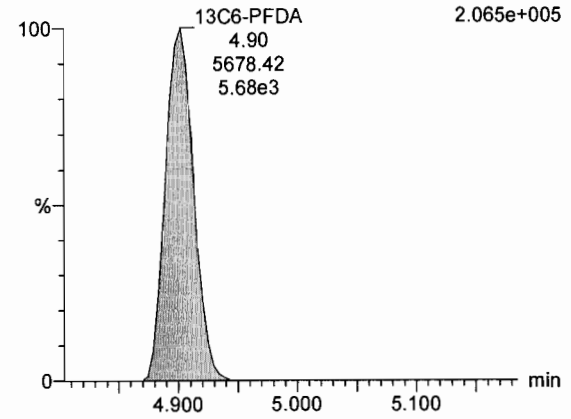
13C4-PFOS

170928G1_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.733e+005



13C6-PFDA

170928G1_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
2.065e+005



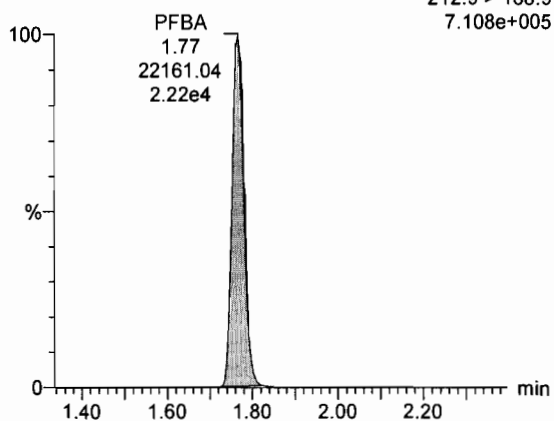
Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

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Name: 170928G1_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627

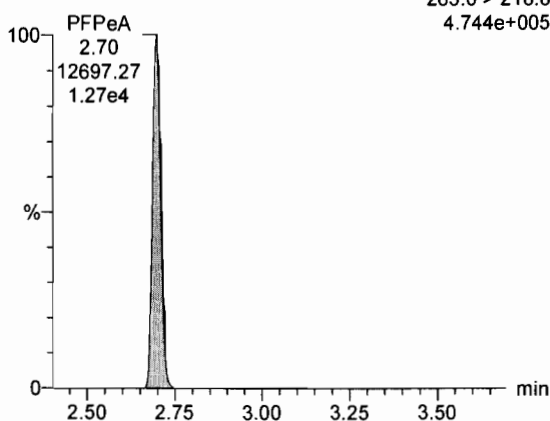
PFBA

170928G1_7 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
212.9 > 168.9
7.108e+005



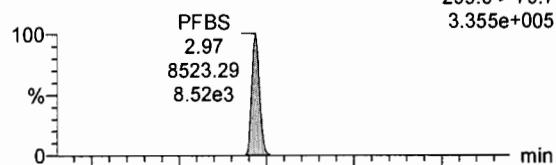
PFPeA

170928G1_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
263.0 > 218.8
4.744e+005

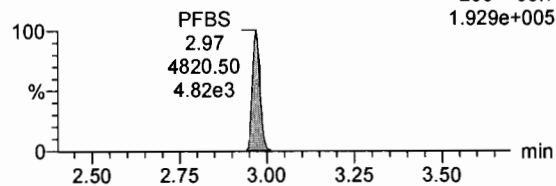


PFBS

170928G1_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299.0 > 79.7
3.355e+005

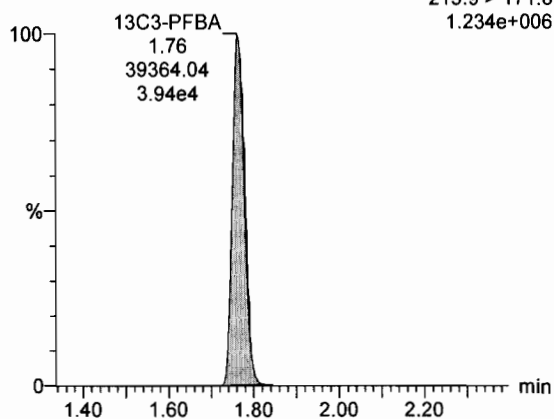


170928G1_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299 > 98.7
1.929e+005



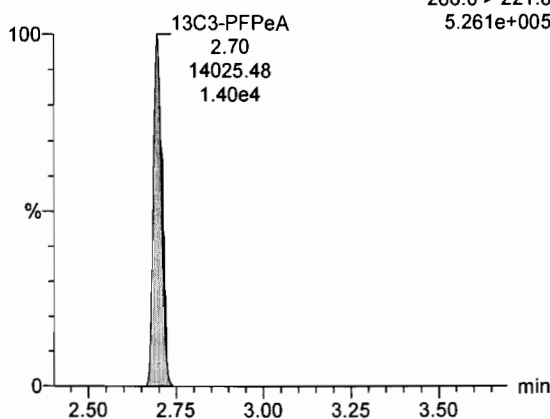
13C3-PFBA

170928G1_7 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
215.9 > 171.8
1.234e+006



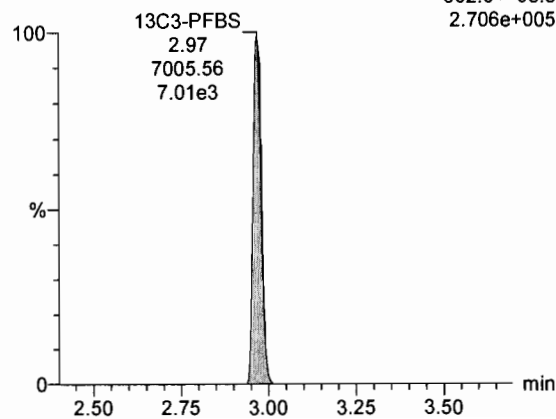
13C3-PFPeA

170928G1_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
266.0 > 221.8
5.261e+005



13C3-PFBS

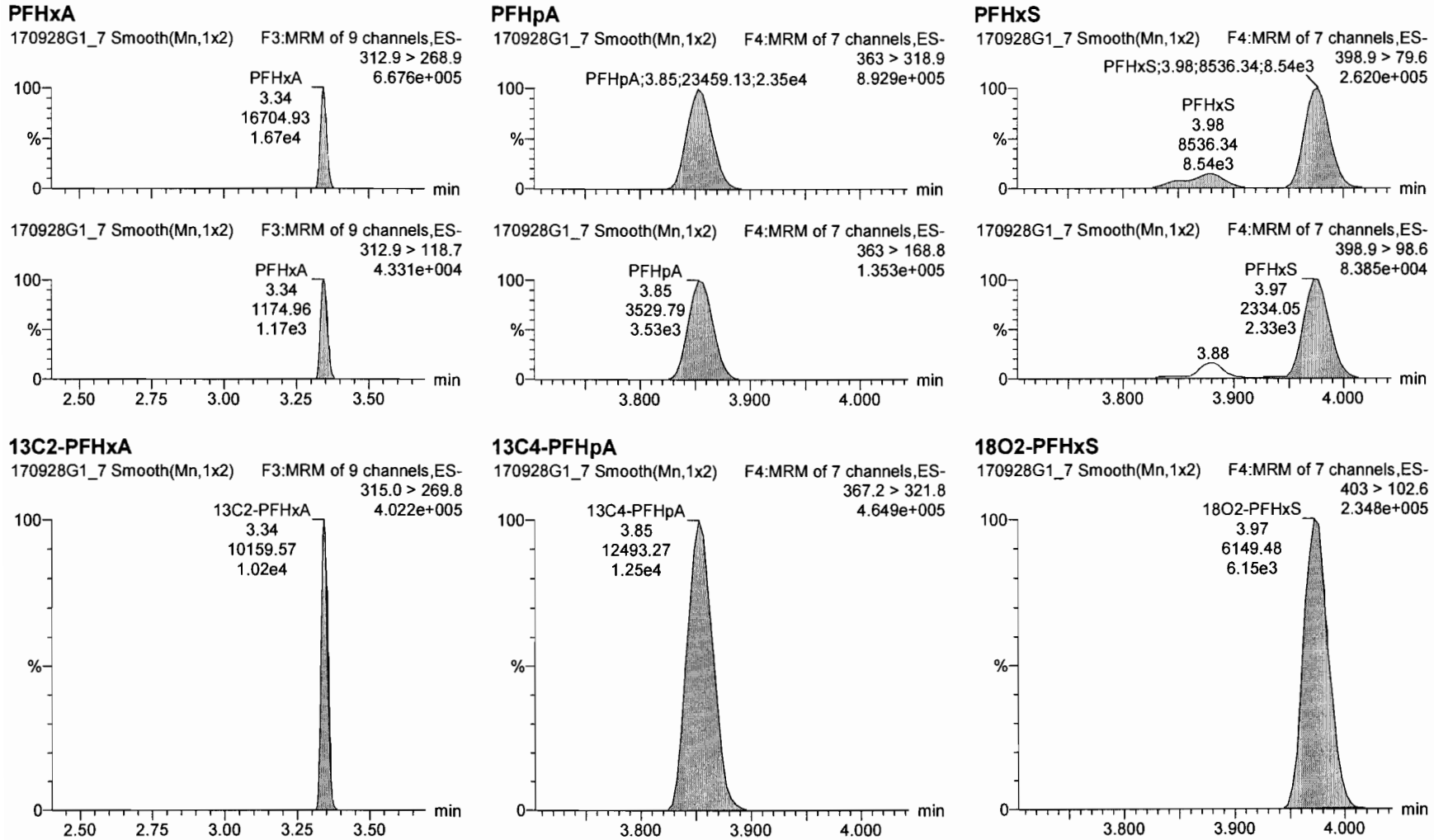
170928G1_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
302.0 > 98.8
2.706e+005



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

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Name: 170928G1_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627



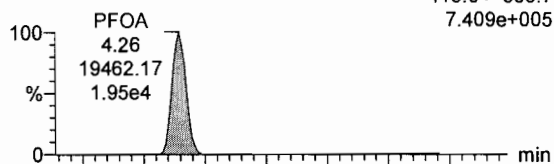
Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

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Name: 170928G1_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 17I2627, Description: PFC CS3 17I2627

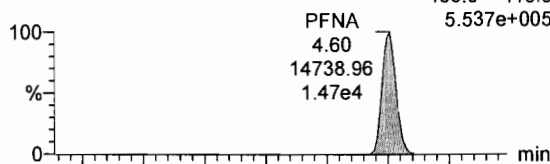
PFOA

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7
7.409e+005



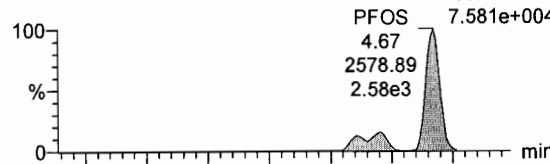
PFNA

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8
5.537e+005

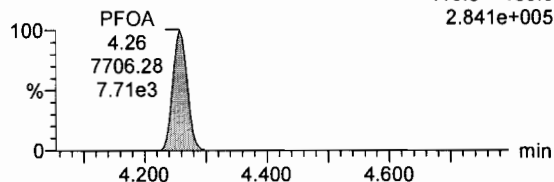


PFOS

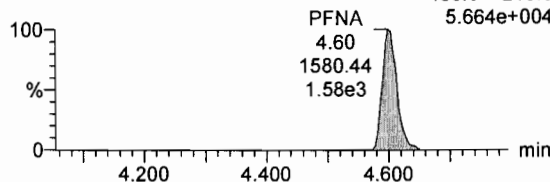
170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9
7.581e+004



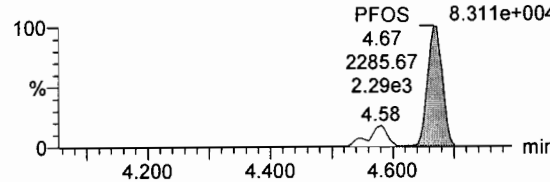
170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8
2.841e+005



170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0
5.664e+004

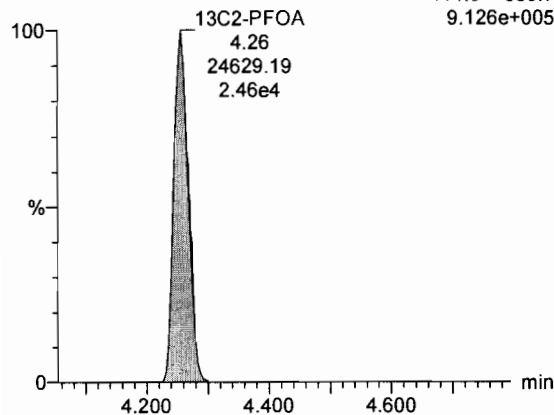


170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8
8.311e+004



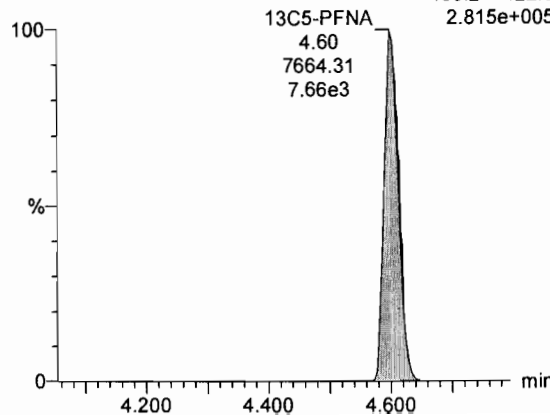
13C2-PFOA

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7
9.126e+005



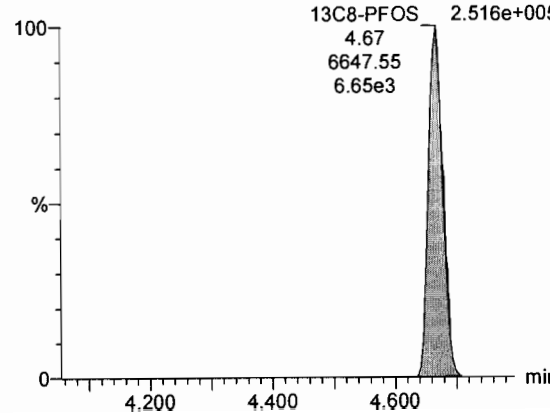
13C5-PFNA

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9
2.815e+005



13C8-PFOS

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9
2.516e+005



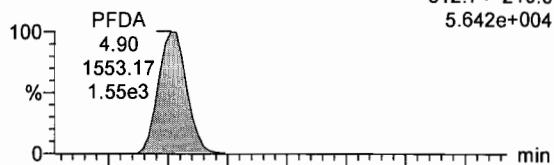
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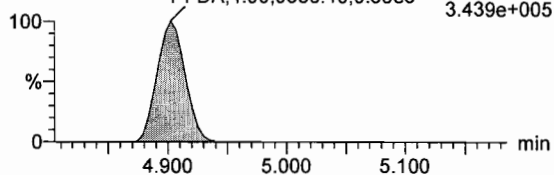
Name: 170928G1_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627

PFDA

170928G1_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 219.0
5.642e+004

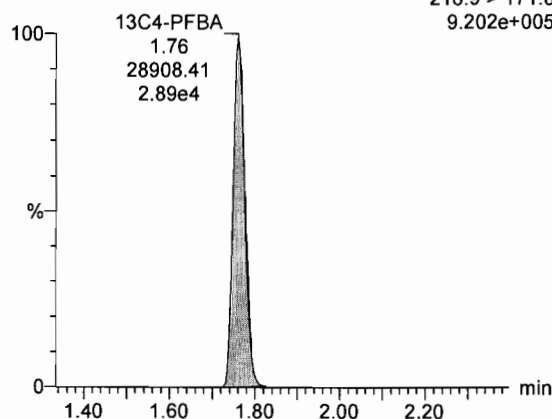


170928G1_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
PFDA;4.90;9356.40;9.36e3 512.7 > 468.7
3.439e+005



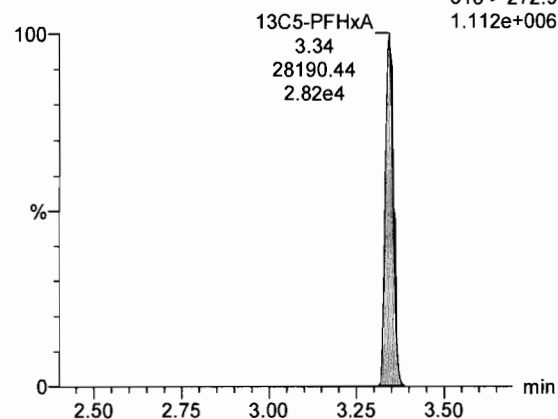
13C4-PFBA

170928G1_7 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
216.9 > 171.8
9.202e+005



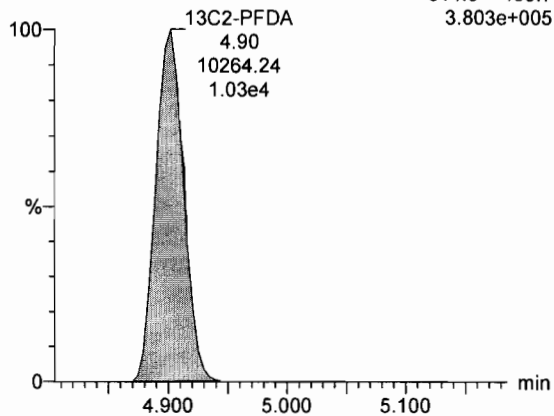
13C5-PFHxA

170928G1_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
318 > 272.9
1.112e+006



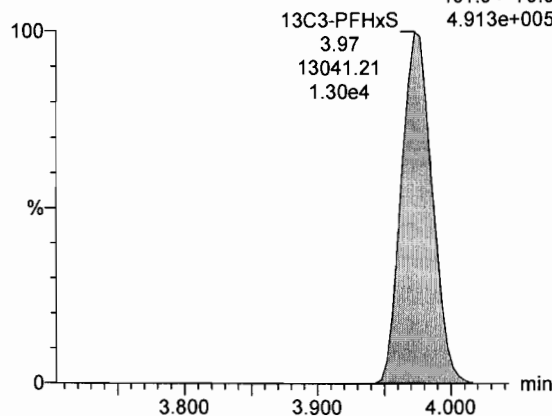
13C2-PFDA

170928G1_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
514.8 > 469.7
3.803e+005



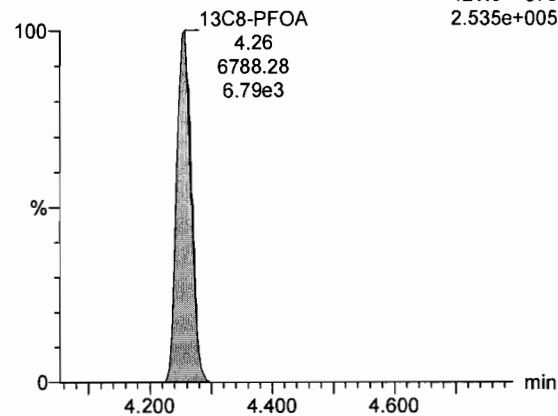
13C3-PFHxS

170928G1_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-
401.9 > 79.9
4.913e+005



13C8-PFOA

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
421.3 > 376
2.535e+005



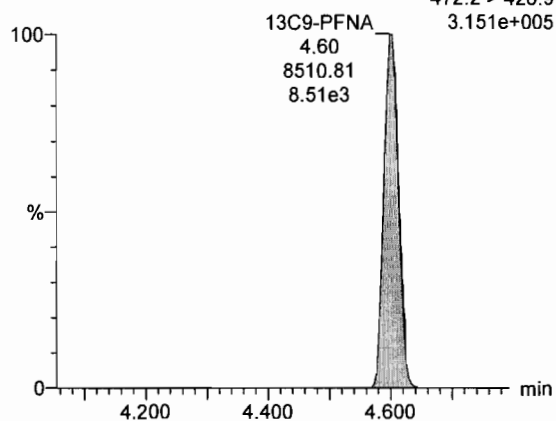
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Name: 170928G1_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627

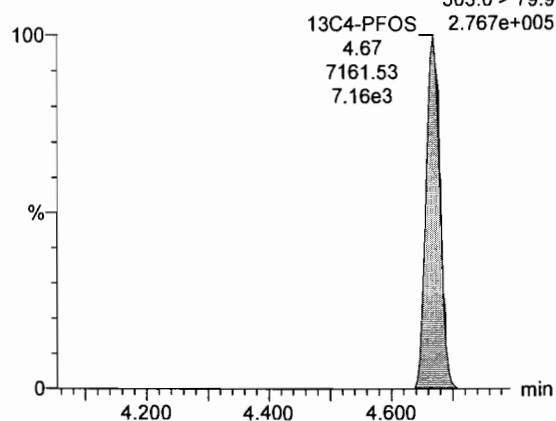
13C9-PFNA

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
3.151e+005



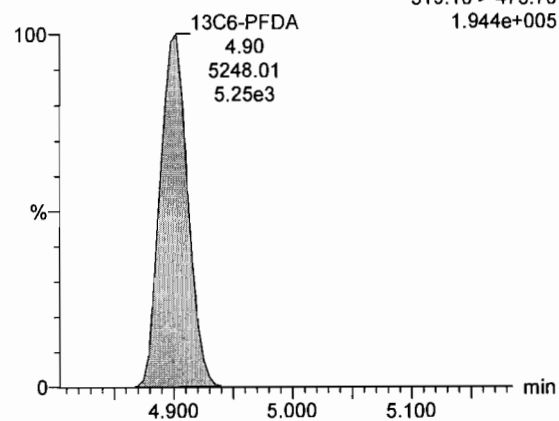
13C4-PFOS

170928G1_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.767e+005



13C6-PFDA

170928G1_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
1.944e+005



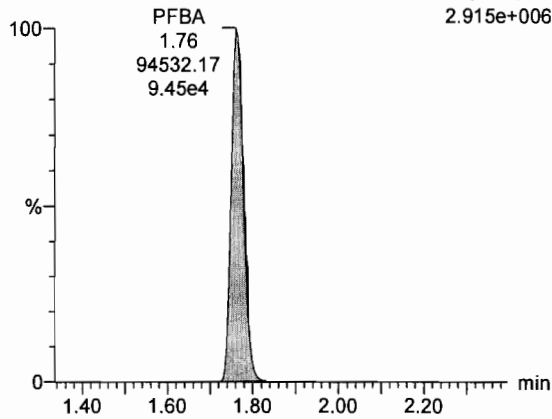
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 1712628, Description: PFC CS4 1712628

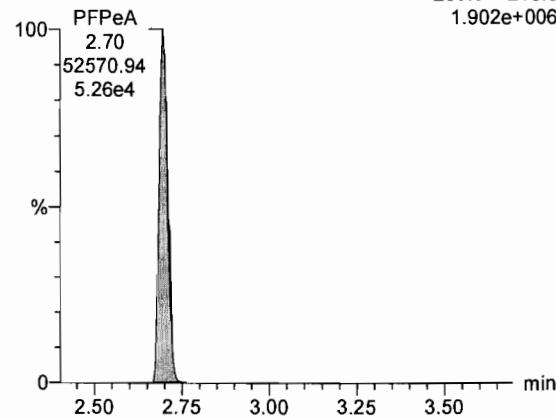
PFBA

170928G1_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
212.9 > 168.9
2.915e+006



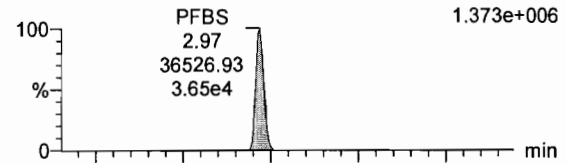
PFPeA

170928G1_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
263.0 > 218.8
1.902e+006

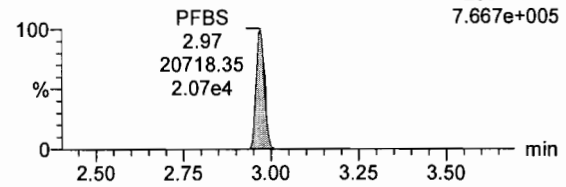


PFBS

170928G1_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299.0 > 79.7
1.373e+006

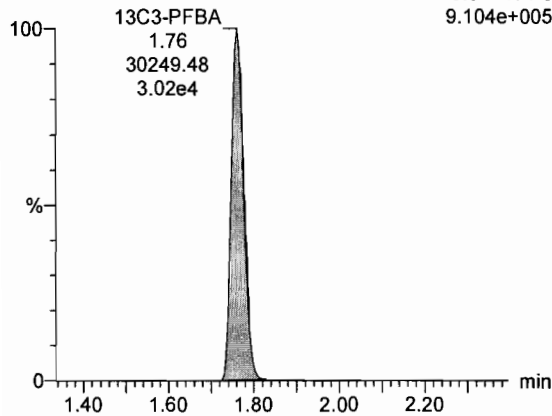


170928G1_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299 > 98.7
7.667e+005



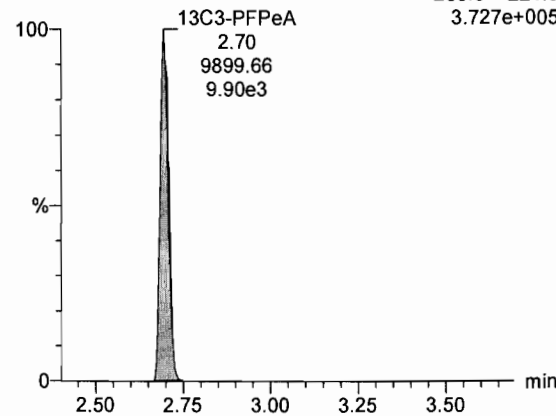
13C3-PFBA

170928G1_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
215.9 > 171.8
9.104e+005



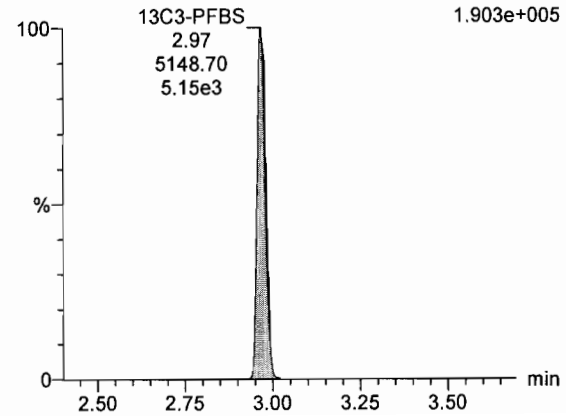
13C3-PFPeA

170928G1_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
266.0 > 221.8
3.727e+005



13C3-PFBS

170928G1_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
302.0 > 98.8
1.903e+005

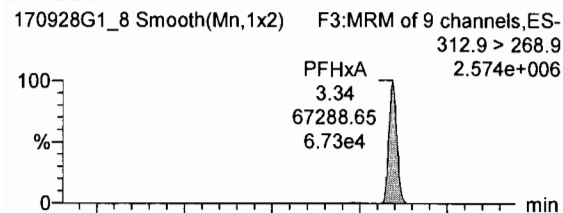


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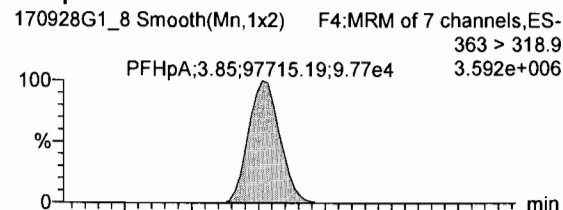
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Name: 170928G1_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 1712628, Description: PFC CS4 1712628

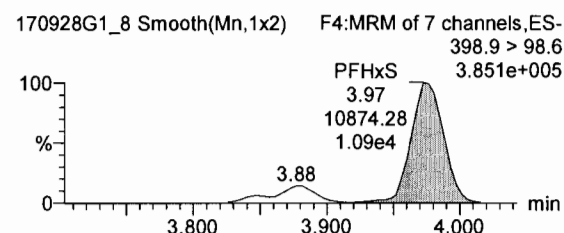
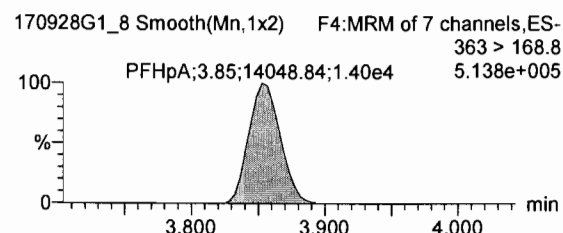
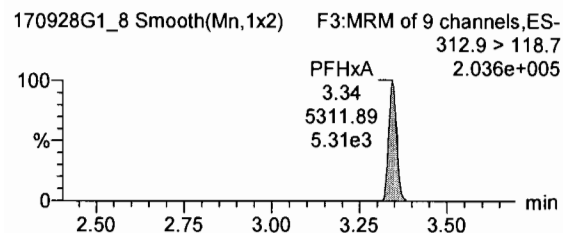
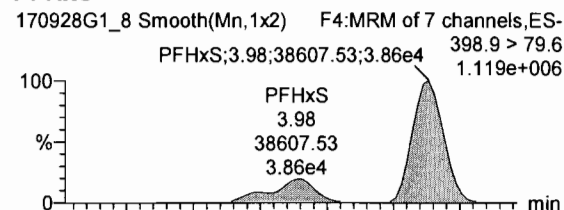
PFHxA



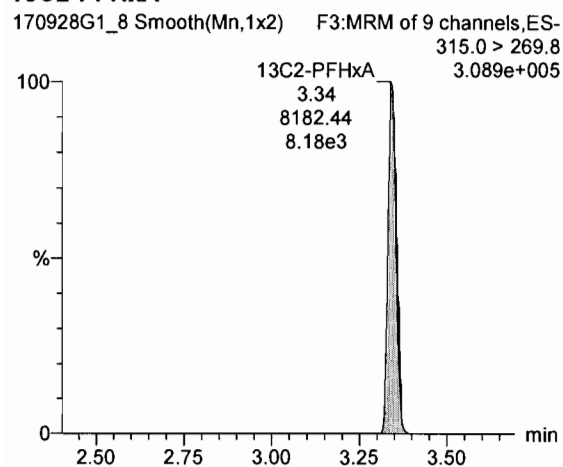
PFHpA



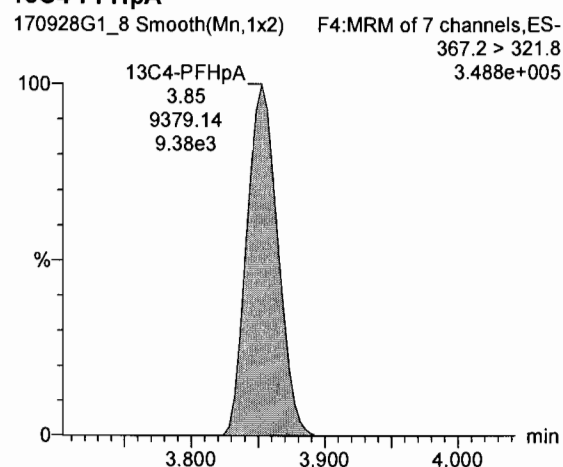
PFHxS



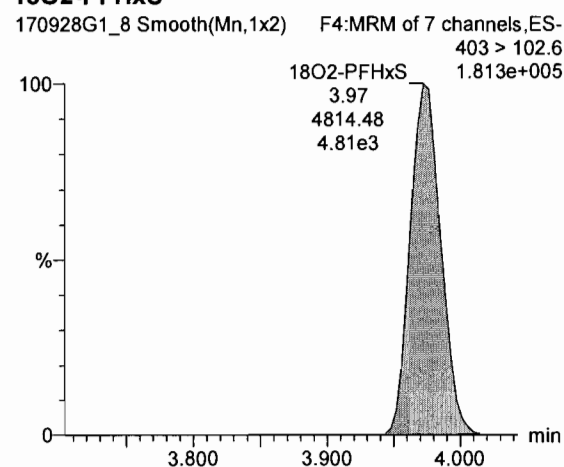
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

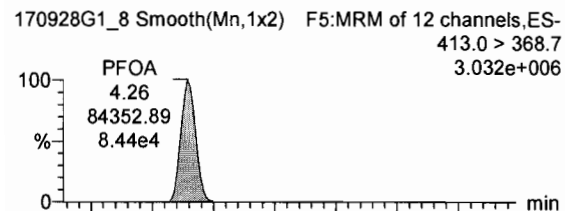


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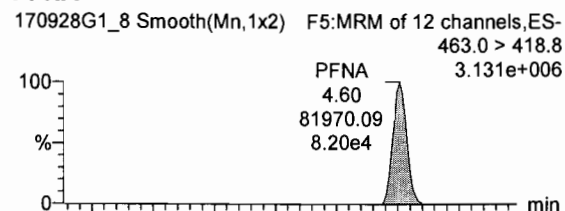
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Name: 170928G1_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 17I2628, Description: PFC CS4 17I2628

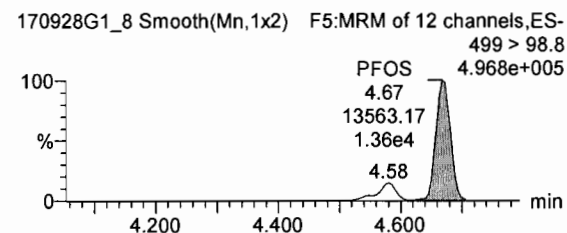
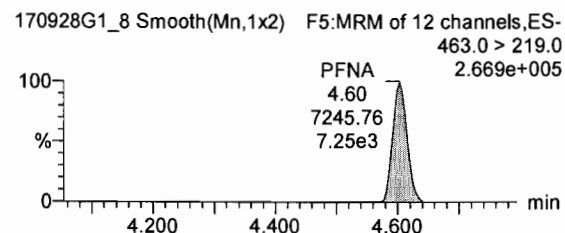
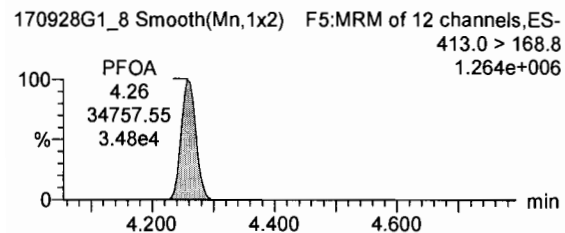
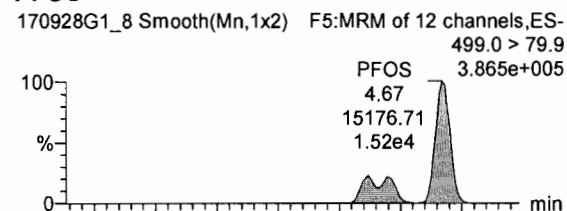
PFOA



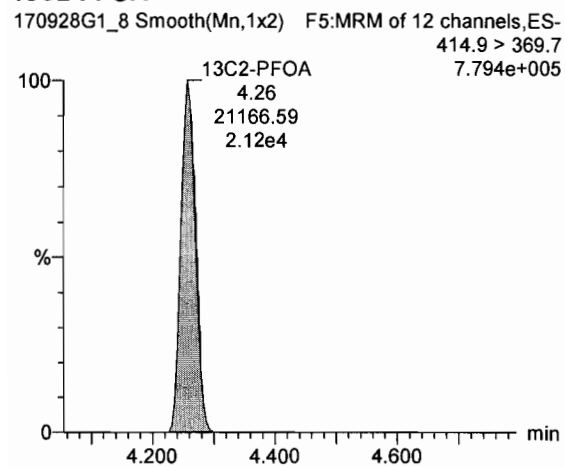
PFNA



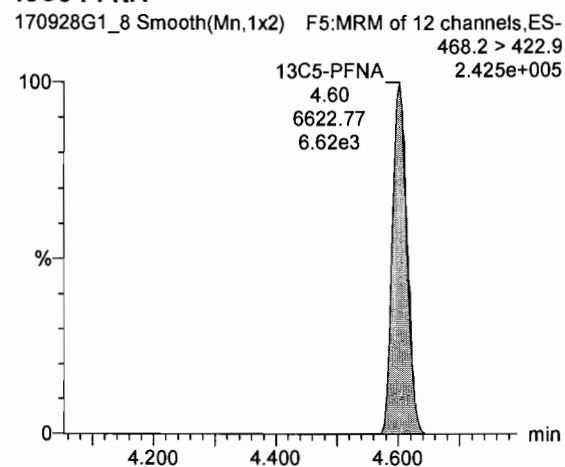
PFOS



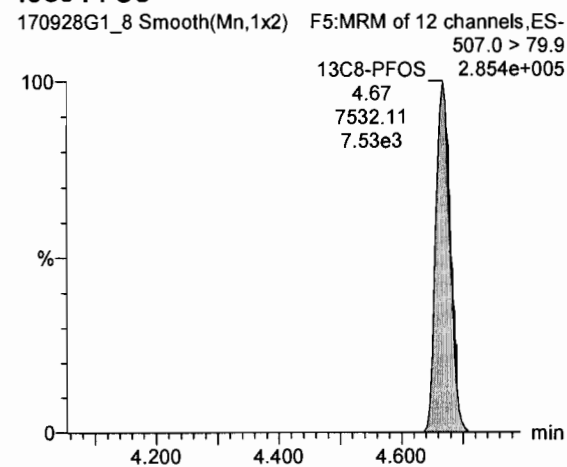
13C2-PFOA



13C5-PFNA



13C8-PFOS



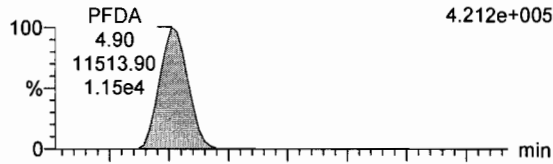
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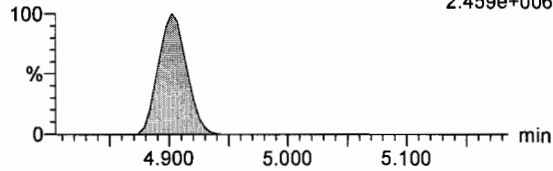
Name: 170928G1_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 1712628, Description: PFC CS4 1712628

PFDA

170928G1_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 219.0
4.212e+005

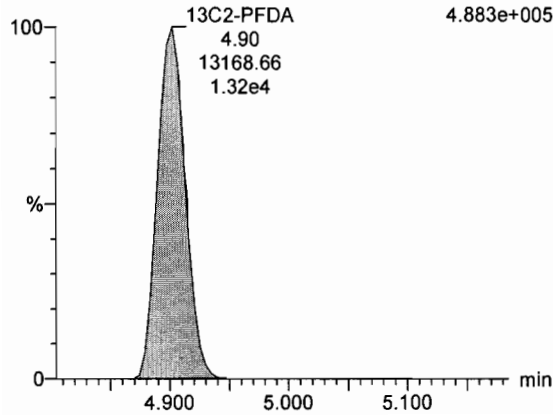


170928G1_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 468.7
2.459e+006



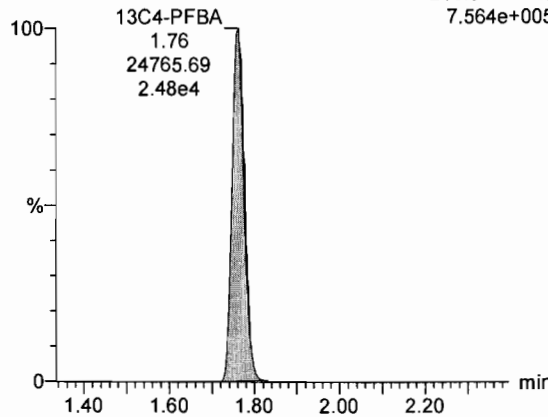
13C2-PFDA

170928G1_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
514.8 > 469.7
4.883e+005



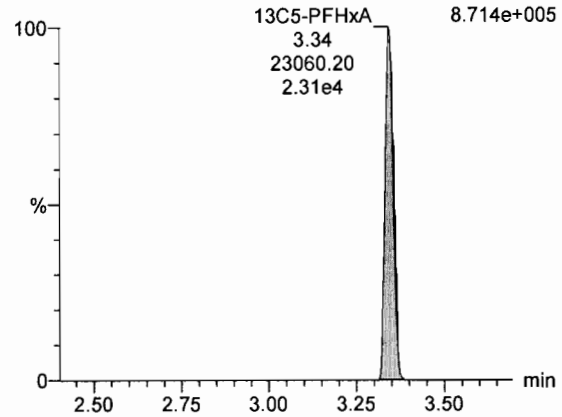
13C4-PFBA

170928G1_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
216.9 > 171.8
7.564e+005



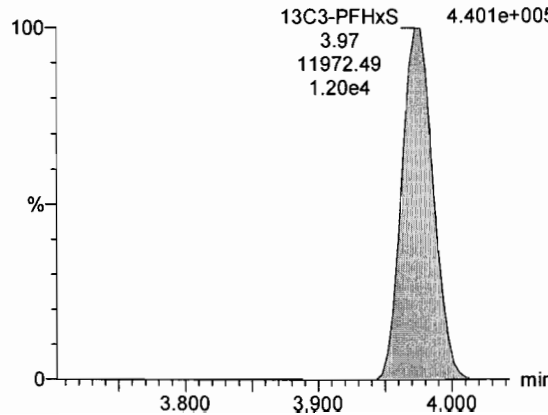
13C5-PFHxA

170928G1_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
318 > 272.9
8.714e+005



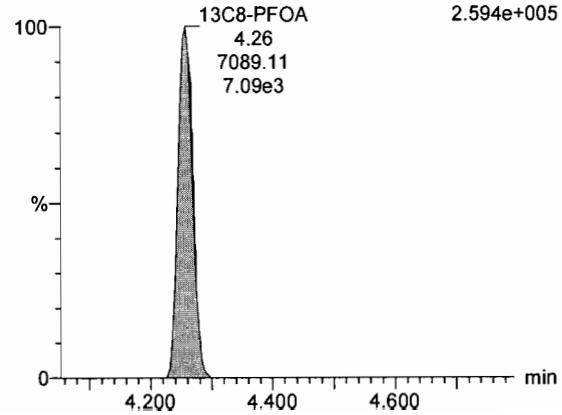
13C3-PFHxS

170928G1_8 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-
401.9 > 79.9
4.401e+005



13C8-PFOA

170928G1_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
421.3 > 376
2.594e+005



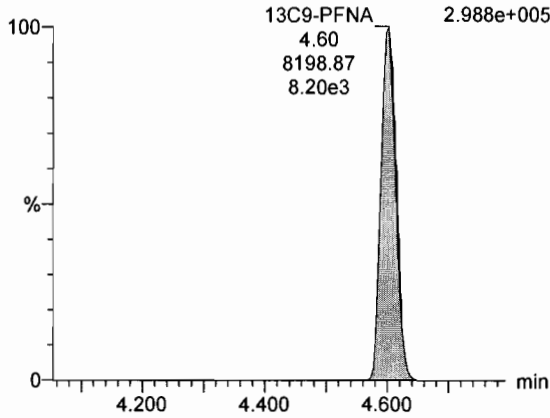
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Name: 170928G1_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 1712628, Description: PFC CS4 1712628

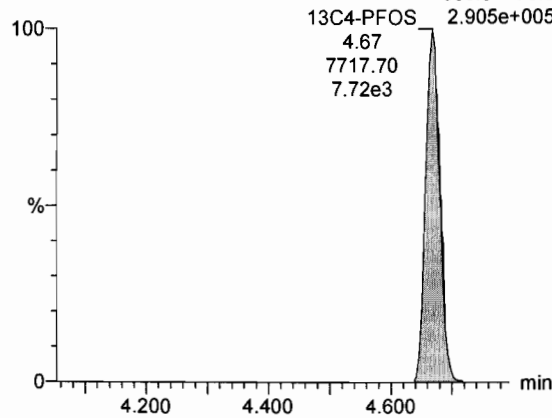
13C9-PFNA

170928G1_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
2.988e+005



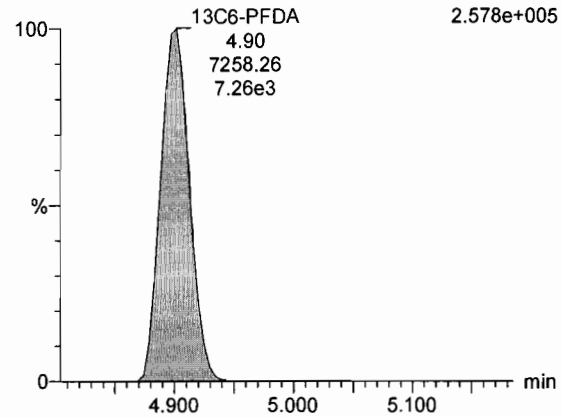
13C4-PFOS

170928G1_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.905e+005



13C6-PFDA

170928G1_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
2.578e+005



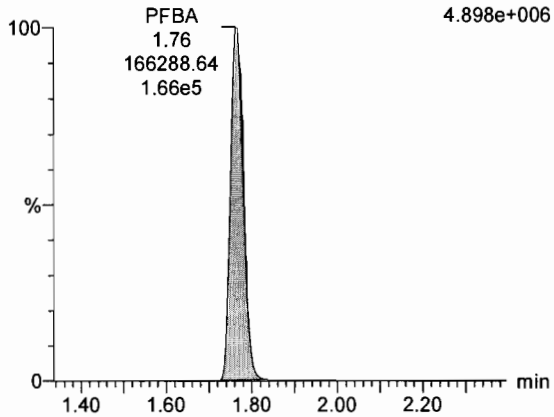
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Name: 170928G1_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

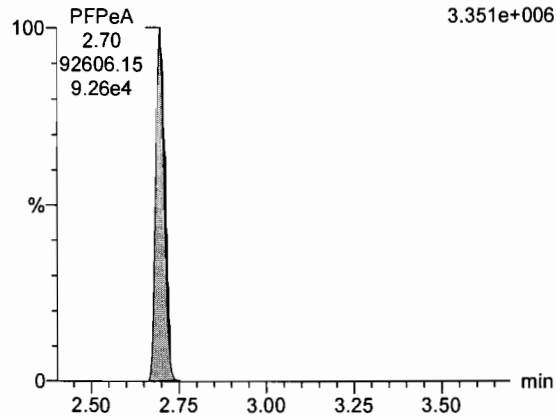
PFBA

170928G1_9 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
212.9 > 168.9
4.898e+006



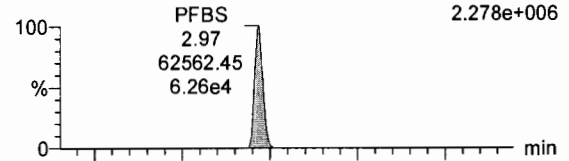
PFPeA

170928G1_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
263.0 > 218.8
3.351e+006

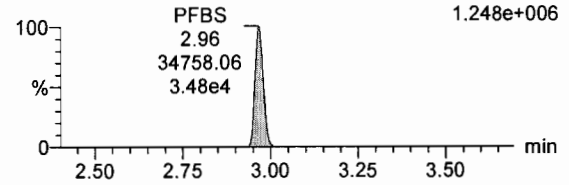


PFBS

170928G1_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299.0 > 79.7
2.278e+006

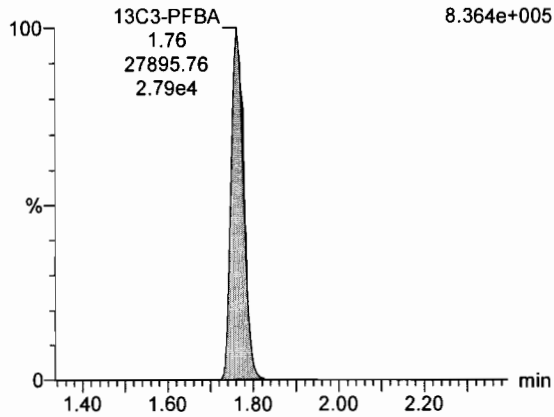


170928G1_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299 > 98.7
1.248e+006



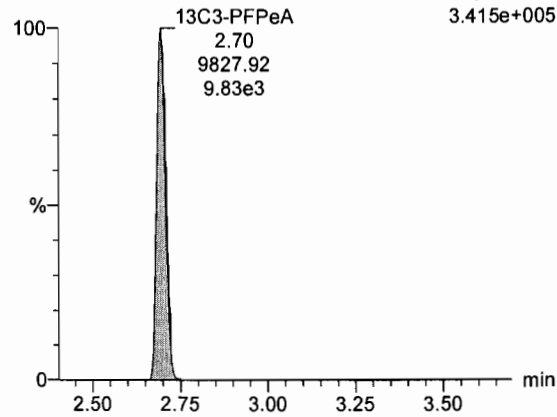
13C3-PFBA

170928G1_9 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
215.9 > 171.8
8.364e+005



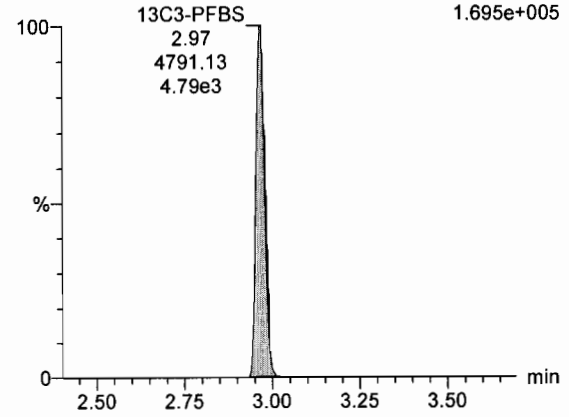
13C3-PFPeA

170928G1_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
266.0 > 221.8
3.415e+005



13C3-PFBS

170928G1_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
302.0 > 98.8
1.695e+005

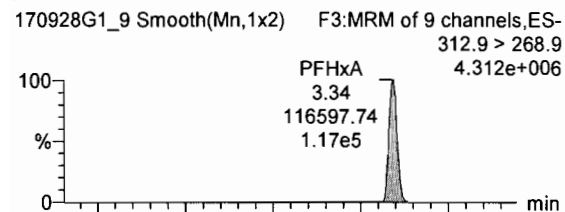


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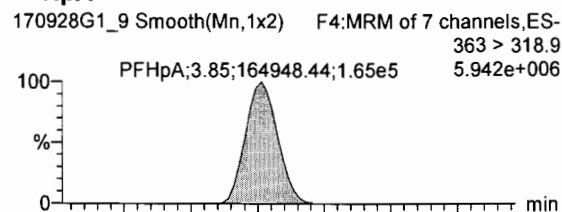
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Name: 170928G1_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

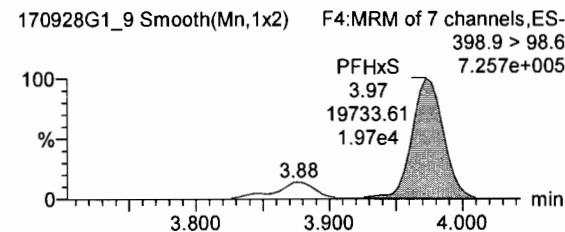
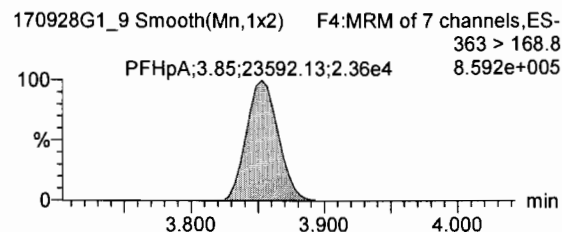
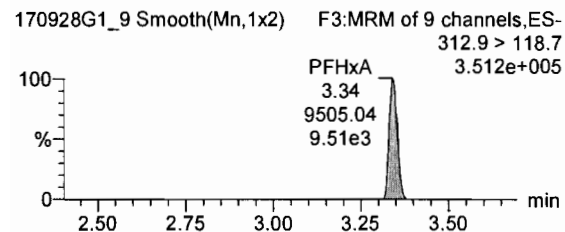
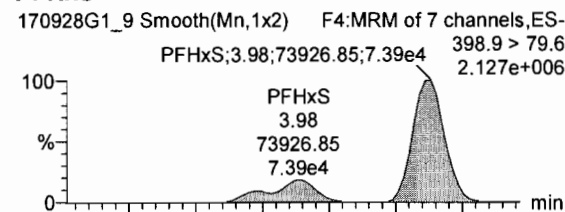
PFHxA



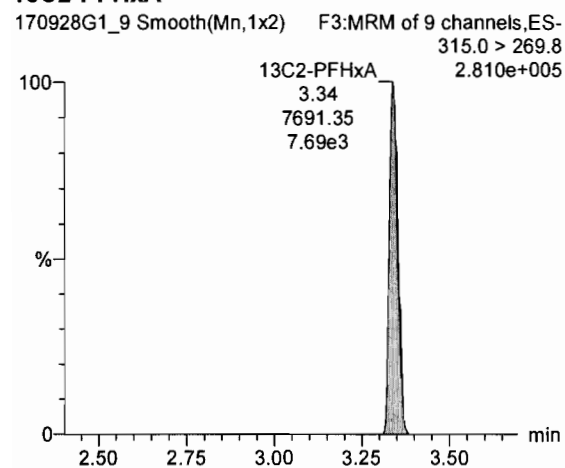
PFHpA



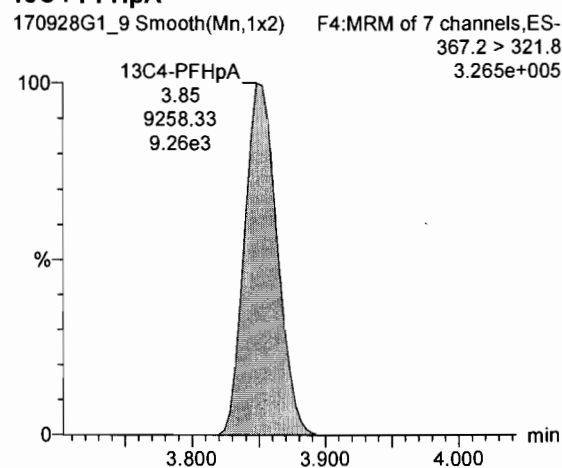
PFHxS



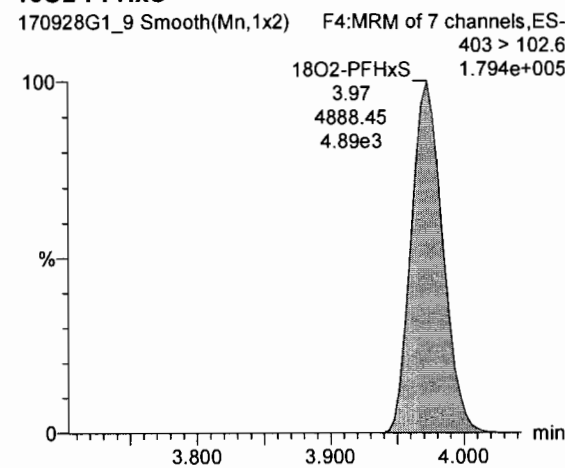
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

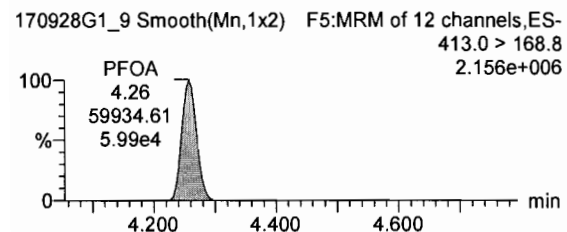
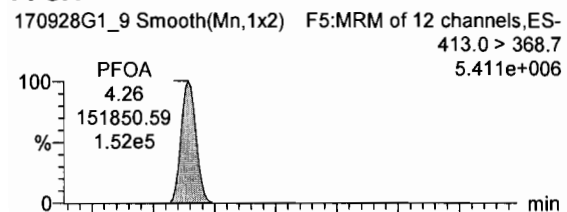


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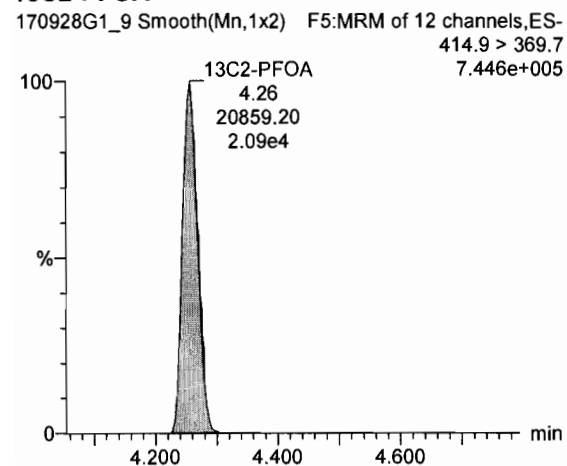
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

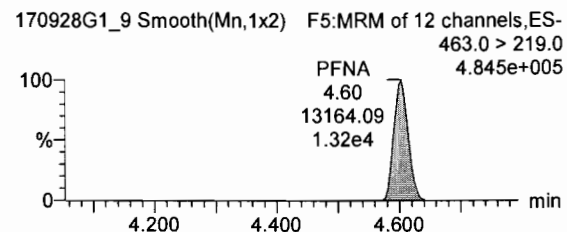
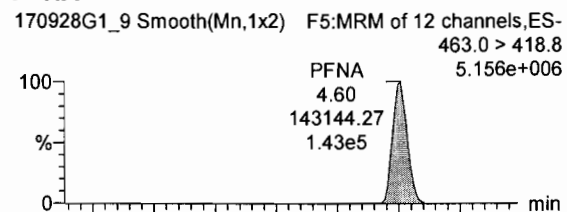
PFOA



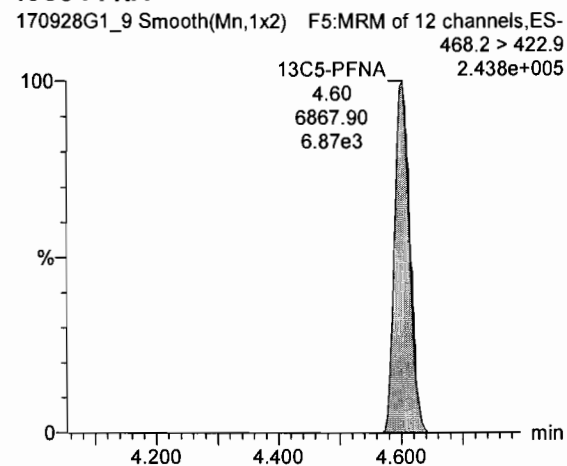
13C2-PFOA



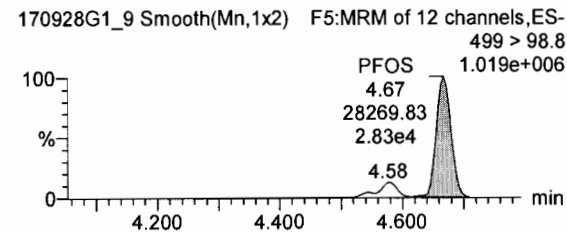
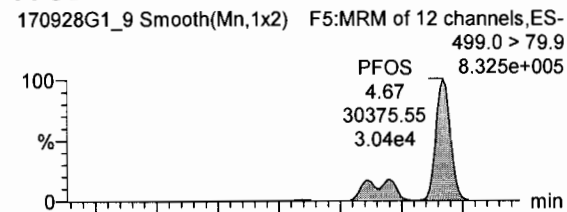
PFNA



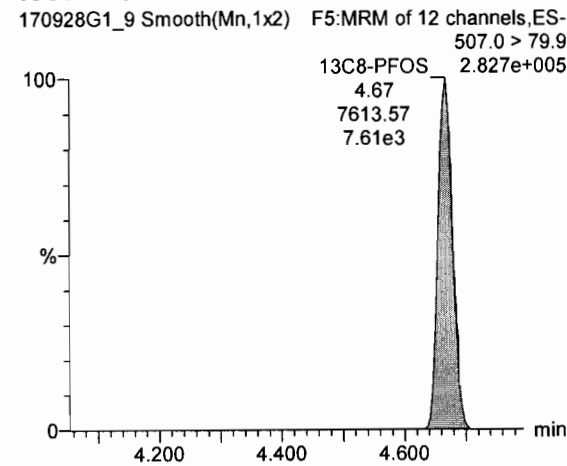
13C5-PFNA



PFOS



13C8-PFOS



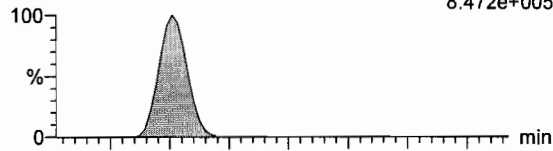
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

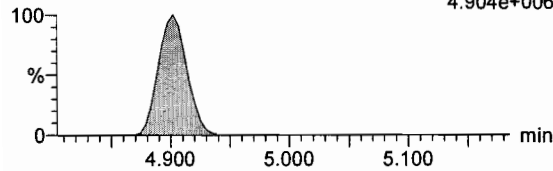
Name: 170928G1_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

PFDA

170928G1_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 219.0
8.472e+005

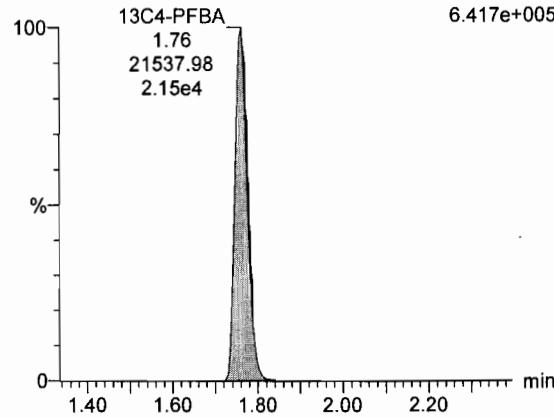


170928G1_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 468.7
4.904e+006



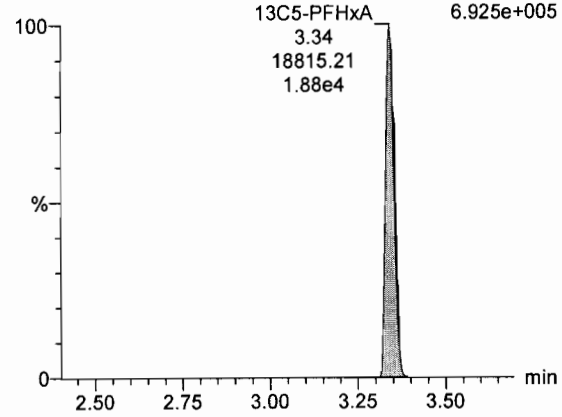
13C4-PFBA

170928G1_9 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
216.9 > 171.8
6.417e+005



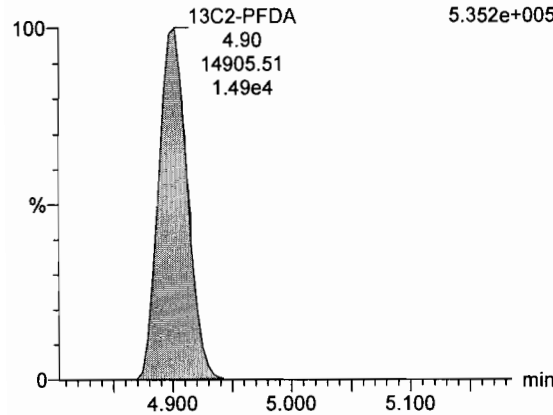
13C5-PFHxA

170928G1_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
318 > 272.9
6.925e+005



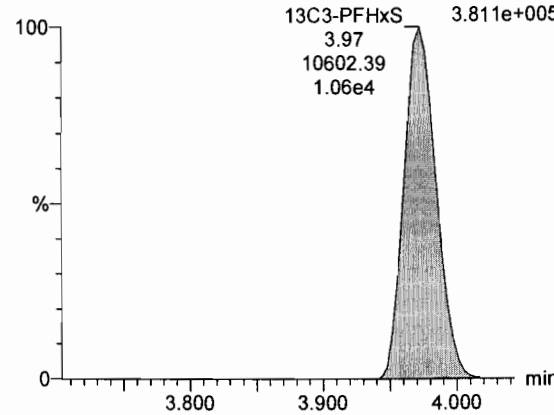
13C2-PFDA

170928G1_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
514.8 > 469.7
5.352e+005



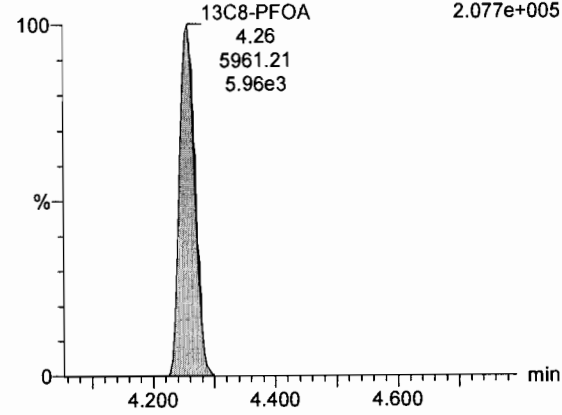
13C3-PFHxS

170928G1_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-
401.9 > 79.9
3.811e+005



13C8-PFOA

170928G1_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
421.3 > 376
2.077e+005



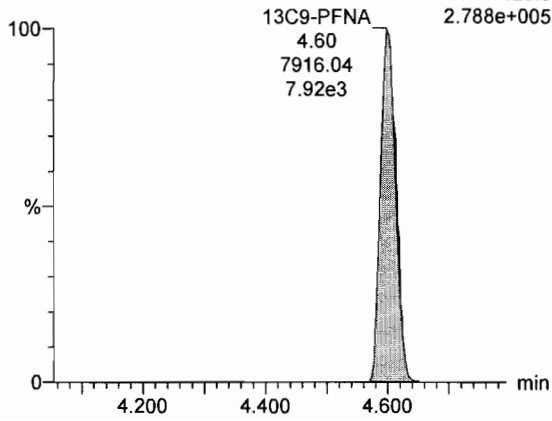
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

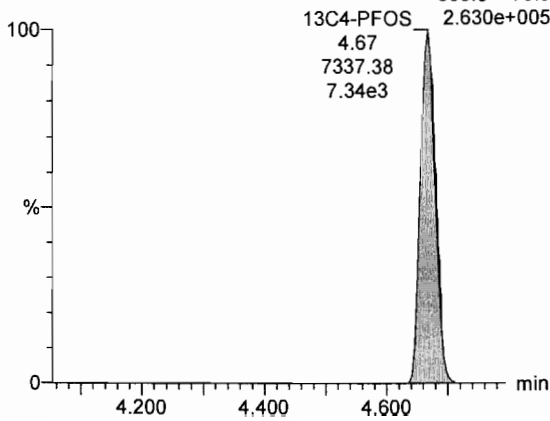
13C9-PFNA

170928G1_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
2.788e+005



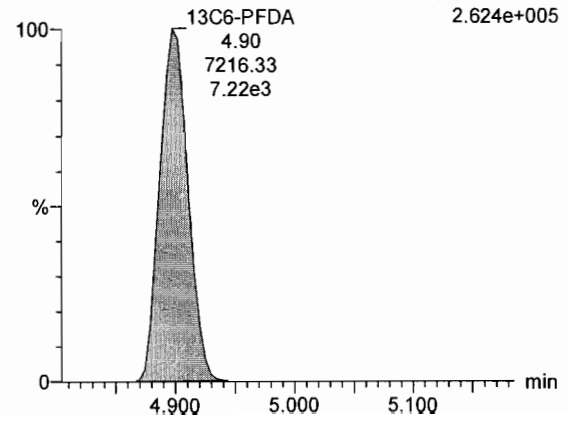
13C4-PFOS

170928G1_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.630e+005



13C6-PFDA

170928G1_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
2.624e+005



Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-12.qld

Last Altered: Thursday, September 28, 2017 11:13:06 Pacific Daylight Time

Printed: Thursday, September 28, 2017 11:14:17 Pacific Daylight Time

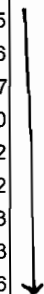
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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

#	Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.76	19187.545	30955.201	7.748	10.3	103.4
2	2 PFPeA	263.0 > 218.8	2.70	10994.386	11422.194	12.032	9.9	98.5
3	3 PFBS	299.0 > 79.7	2.97	6753.990	5825.995	14.491	8.7	86.6
4	4 PFHxA	312.9 > 268.9	3.34	15664.068	8347.843	23.455	11.9	118.7
5	5 PFHpA	363 > 318.9	3.85	20370.268	11263.204	22.607	9.6	96.0
6	6 PFHxS	398.9 > 79.6	3.98	7151.468	4858.209	18.400	9.6	96.2
7	7 PFOA	413.0 > 368.7	4.26	16672.262	23090.801	9.025	9.3	93.2
8	8 PFNA	463.0 > 418.8	4.60	14530.189	7317.948	24.819	9.0	90.3
9	9 PFOS	499.0 > 79.9	4.67	2497.793	7781.154	4.013	8.0	80.3
10	10 PFDA	512.7 > 219.0	4.91	2147.431	13030.051	2.060	10.1	100.6
11	11 13C3-PFBA	215.9 > 171.8	1.76	30955.201	22957.758	16.854	12.3	98.2
12	12 13C3-PFBS	302.0 > 98.8	2.97	5825.995	21884.443	3.328	14.1	112.9
13	13 13C3-PFPeA	266.0 > 221.8	2.70	11422.194	21884.443	6.524	13.1	104.8
14	14 13C2-PFHxA	315.0 > 269.8	3.34	8347.843	21884.443	4.768	12.6	100.7
15	15 13C4-PFHpA	367.2 > 321.8	3.85	11263.204	21884.443	6.433	14.4	115.2
16	16 18O2-PFHxS	403 > 102.6	3.97	4858.209	12384.241	4.904	11.2	89.9
17	17 13C2-PFOA	414.9 > 369.7	4.26	23090.801	6179.977	46.705	12.6	100.6
18	18 13C5-PFNA	468.2 > 422.9	4.60	7317.948	7736.490	11.824	13.3	106.8
19	19 13C2-PFDA	514.8 > 469.7	4.90	13030.051	6044.949	26.944	13.9	111.4
20	20 13C8-PFOS	507.0 > 79.9	4.67	7781.154	8073.254	12.048	12.8	102.2
21	21 13C4-PFBA	216.9 > 171.8	1.76	22957.758	22957.758	12.500	12.5	100.0
22	22 13C5-PFHxA	318 > 272.9	3.34	21884.443	21884.443	12.500	12.5	100.0
23	23 13C3-PFHxS	401.9 > 79.9	3.97	12384.241	12384.241	12.500	12.5	100.0
24	24 13C8-PFOA	421.3 > 376	4.26	6179.977	6179.977	12.500	12.5	100.0
25	25 13C9-PFNA	472.2 > 426.9	4.60	7736.490	7736.490	12.500	12.5	100.0
26	26 13C4-PFOS	503.0 > 79.9	4.67	8073.254	8073.254	12.500	12.5	100.0
27	27 13C6-PFDA	519.10 > 473.70	4.90	6044.949	6044.949	12.500	12.5	100.0
28	28 Total PFHxS	398.9 > 79.6		7151.468	4858.209	18.400	9.6	
29	29 Total PFOA	413.0 > 368.7		33344.524	23090.801	18.051	18.6	
30	30 Total PFOS	499.0 > 79.9		2497.793	7781.154	4.013	8.0	

70-130



See 9/28/17
VJA
9/28/2017

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-12.qld

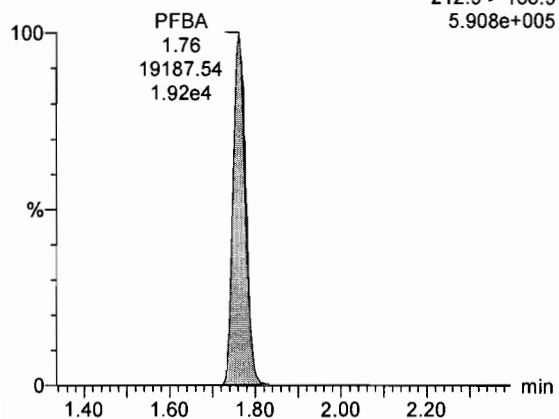
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Printed: Thursday, September 28, 2017 11:14:27 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

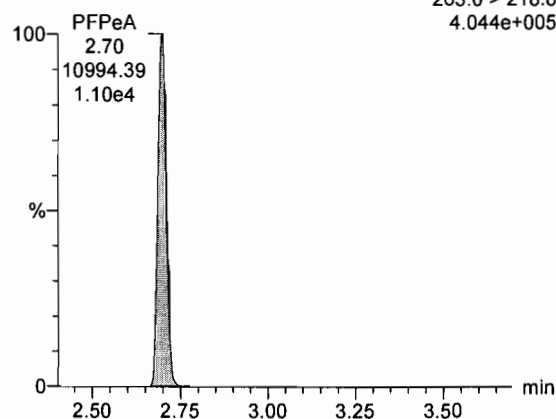
PFBA

170928G1_12 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
212.9 > 168.9
5.908e+005



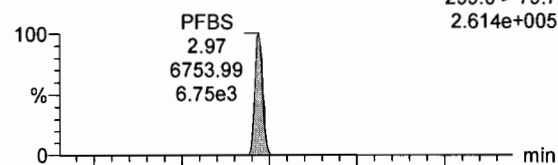
PFPeA

170928G1_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
263.0 > 218.8
4.044e+005

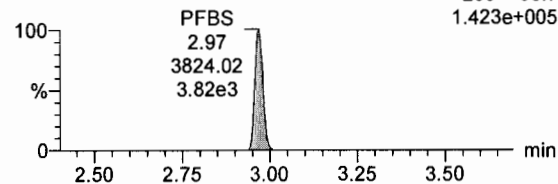


PFBS

170928G1_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299.0 > 79.7
2.614e+005

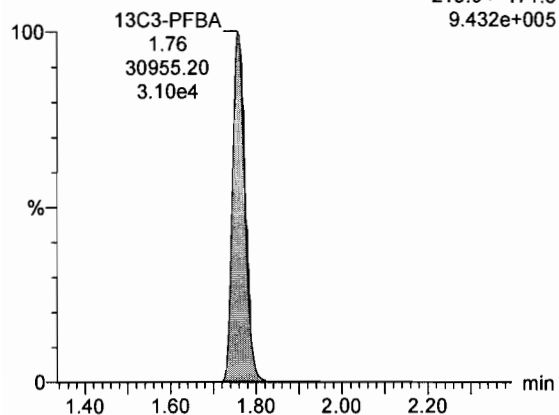


170928G1_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
299 > 98.7
1.423e+005



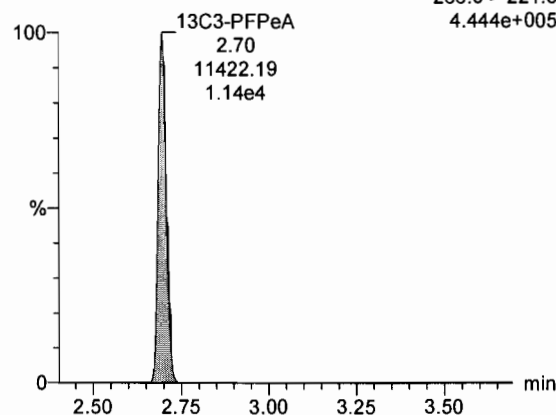
13C3-PFBA

170928G1_12 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
215.9 > 171.8
9.432e+005



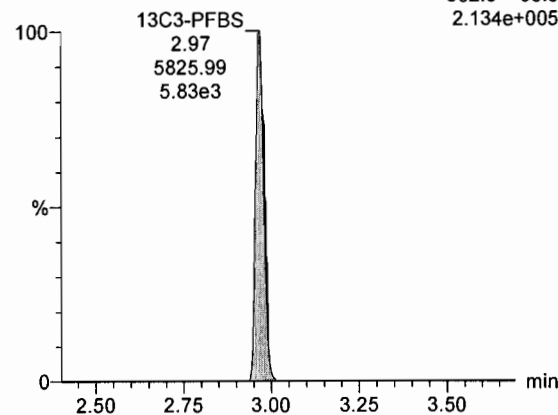
13C3-PFPeA

170928G1_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
266.0 > 221.8
4.444e+005



13C3-PFBS

170928G1_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
302.0 > 98.8
2.134e+005



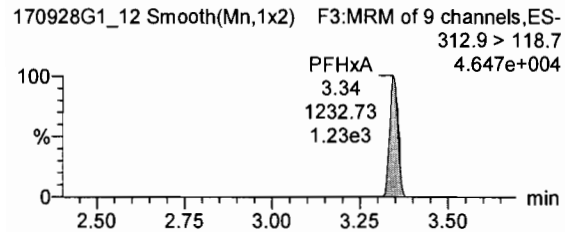
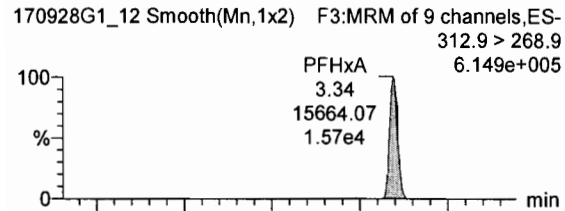
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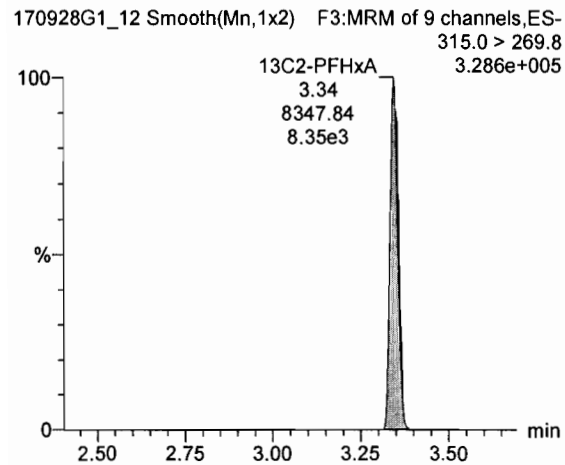
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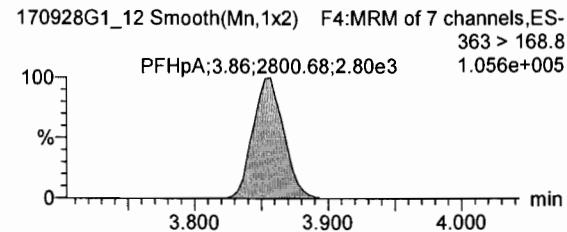
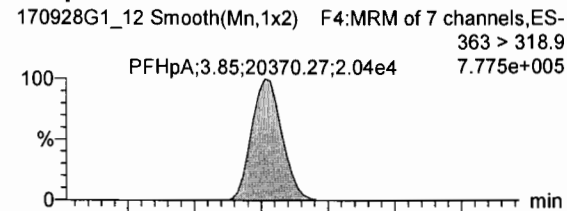
PFHxA



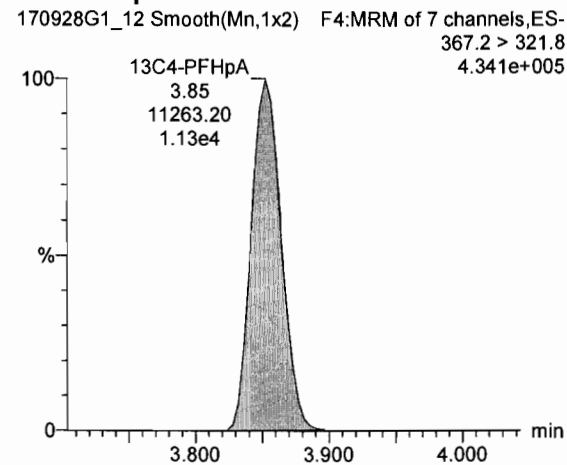
13C2-PFHxA



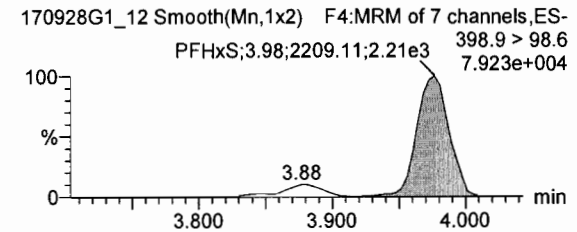
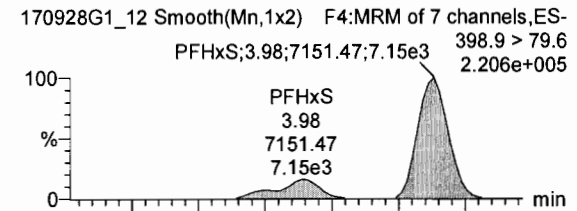
PFHpA



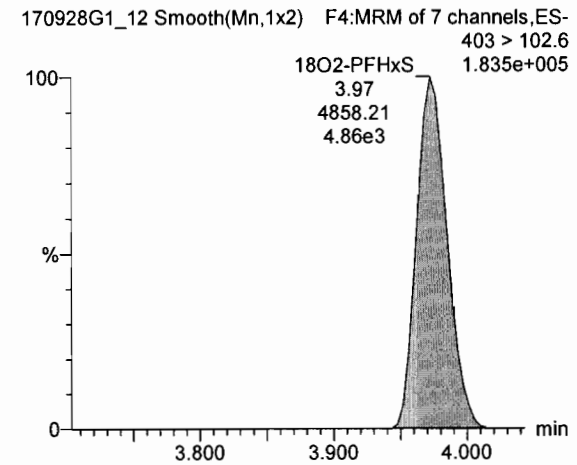
13C4-PFHpA



PFHxS



18O2-PFHxS



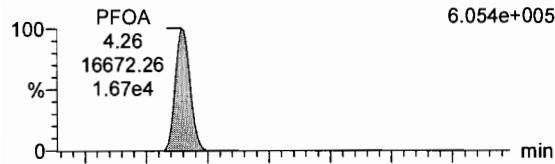
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Printed: Thursday, September 28, 2017 11:14:27 Pacific Daylight Time

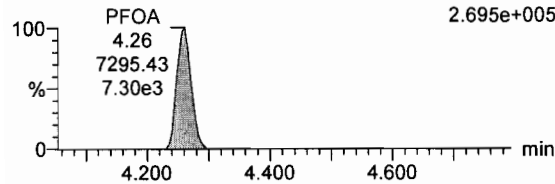
Name: 170928G1_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

PFOA

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7
6.054e+005

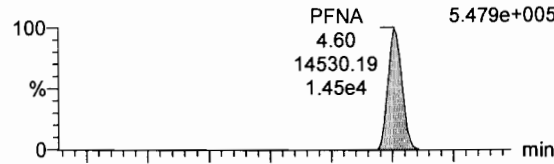


170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8
2.695e+005

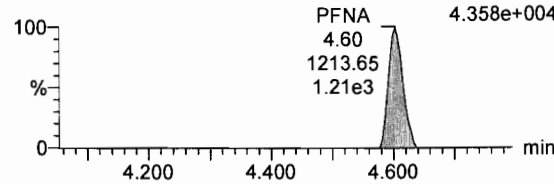


PFNA

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8
5.479e+005

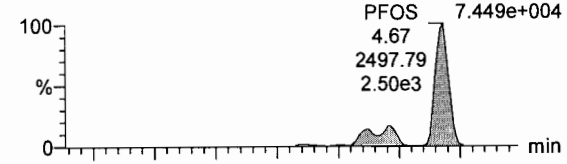


170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0
4.358e+004

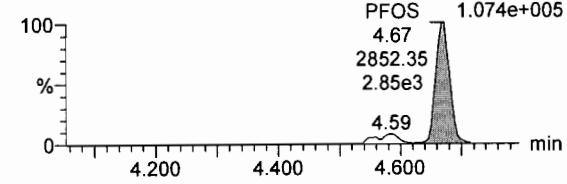


PFOS

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9
7.449e+004

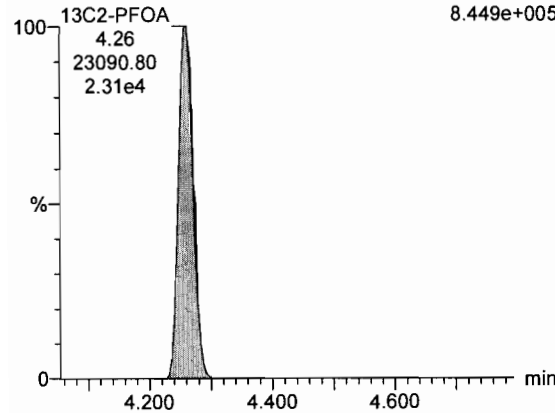


170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8
1.074e+005



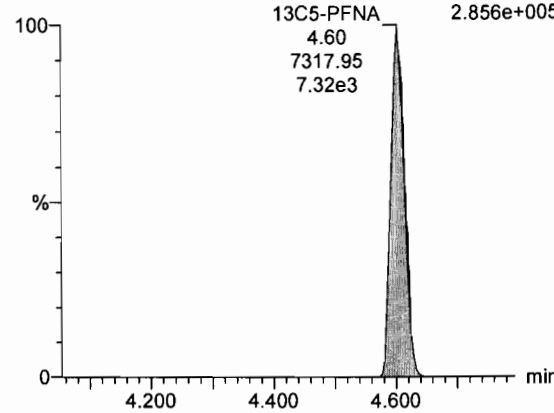
13C2-PFOA

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7
8.449e+005



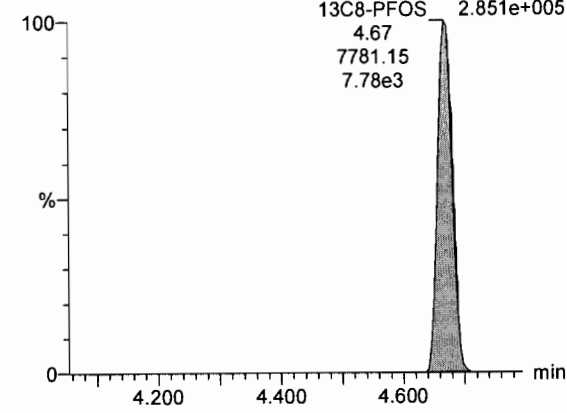
13C5-PFNA

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9
2.856e+005



13C8-PFOS

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9
2.851e+005



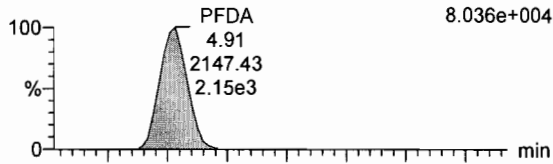
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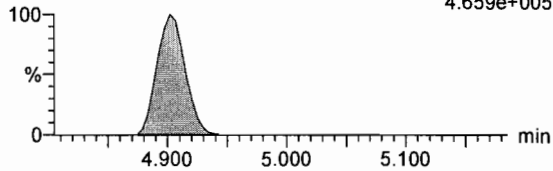
Name: 170928G1_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

PFDA

170928G1_12 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 219.0
8.036e+004

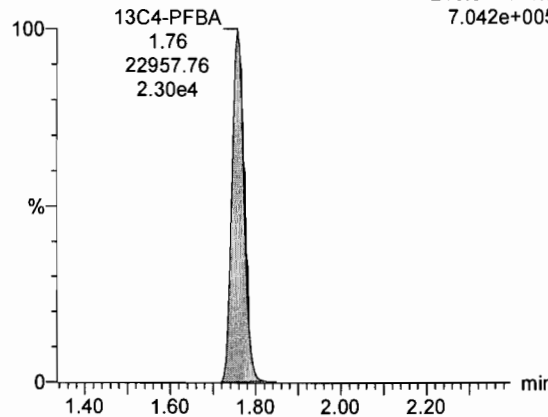


170928G1_12 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
512.7 > 468.7
4.659e+005



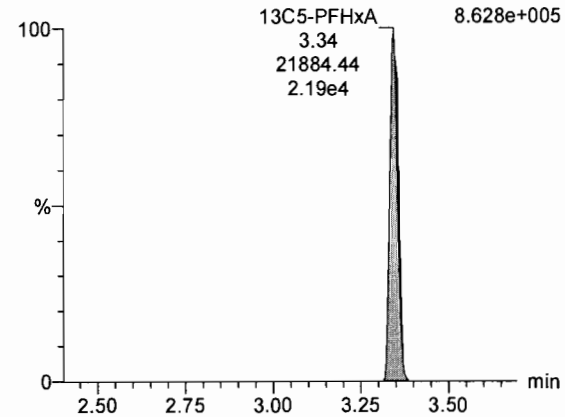
13C4-PFBA

170928G1_12 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-
216.9 > 171.8
7.042e+005



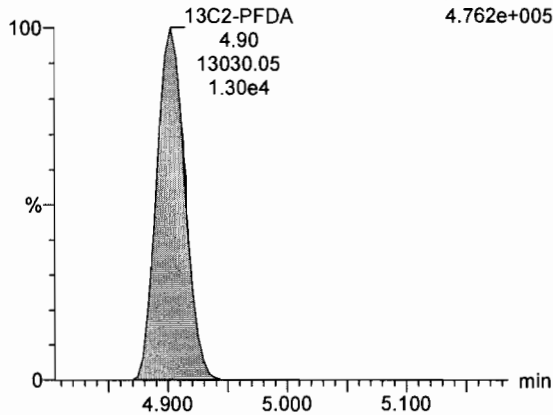
13C5-PFHxA

170928G1_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-
318 > 272.9
8.628e+005



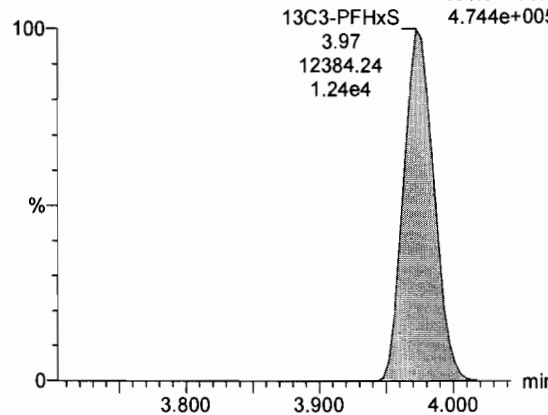
13C2-PFDA

170928G1_12 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
514.8 > 469.7
4.762e+005



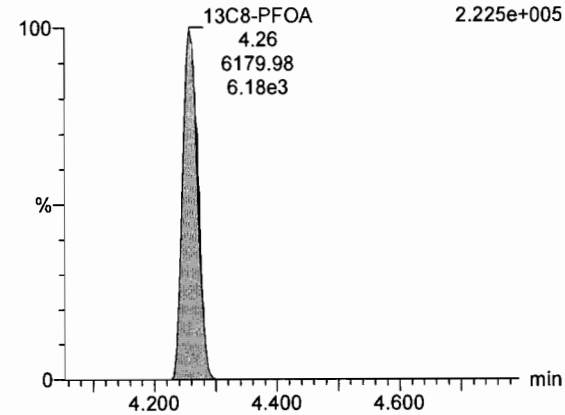
13C3-PFHxS

170928G1_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-
401.9 > 79.9
4.744e+005



13C8-PFOA

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
421.3 > 376
2.225e+005



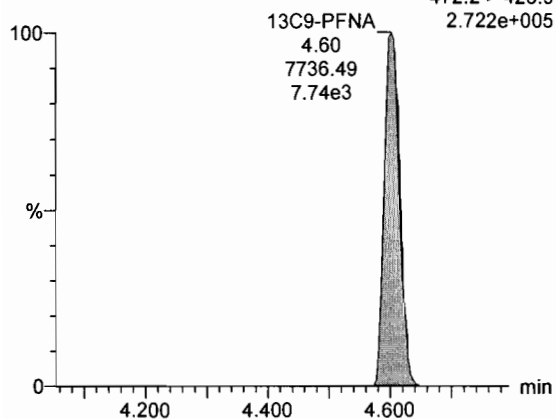
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Printed: Thursday, September 28, 2017 11:14:27 Pacific Daylight Time

Name: 170928G1_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 1512621, Description: PFC ICV 1512621

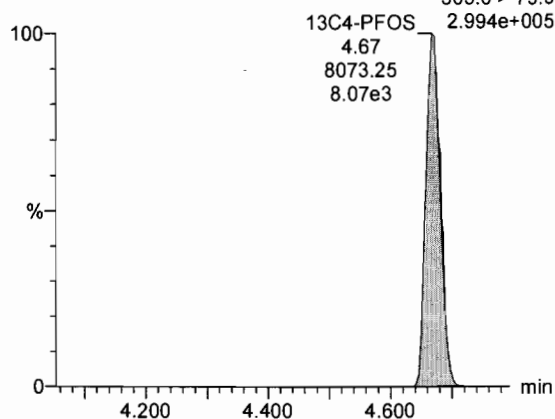
13C9-PFNA

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
472.2 > 426.9
2.722e+005



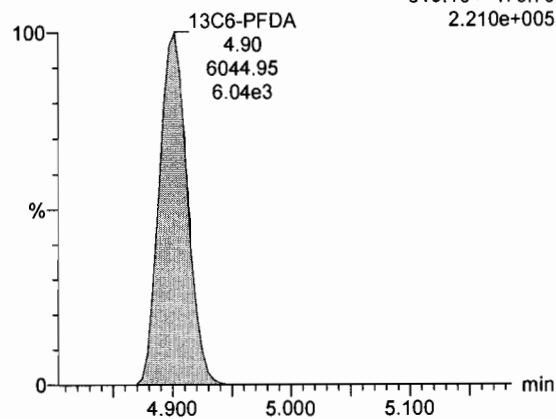
13C4-PFOS

170928G1_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-
503.0 > 79.9
2.994e+005



13C6-PFDA

170928G1_12 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-
519.10 > 473.70
2.210e+005



Dataset: Untitled

Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

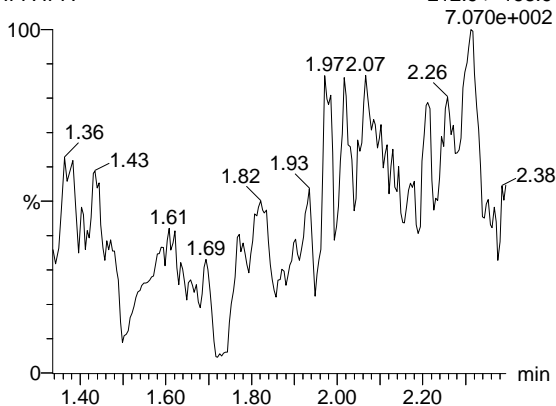
Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

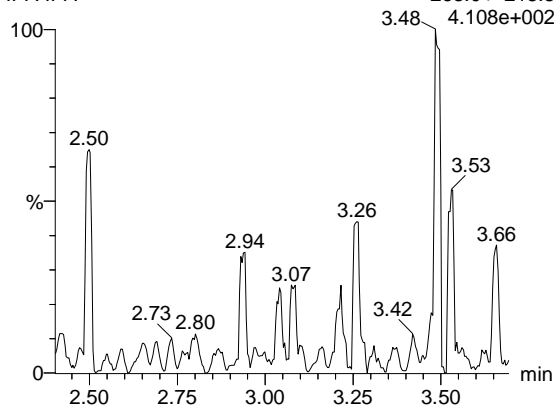
PFBA

170928G1_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 212.9 > 168.9 7.070e+002



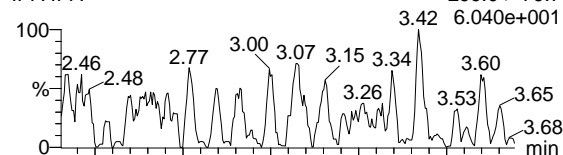
PFPeA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 263.0 > 218.8 4.108e+002

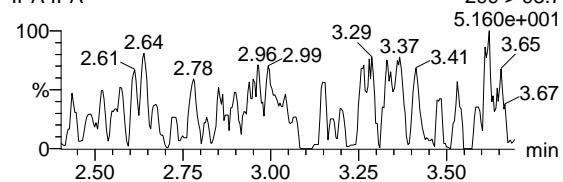


PFBS

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299.0 > 79.7 6.040e+001

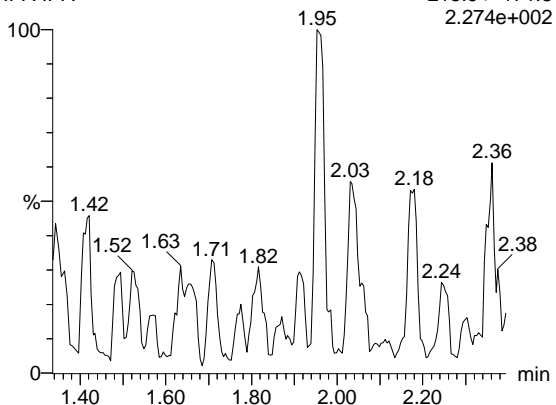


170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299 > 98.7 5.160e+001



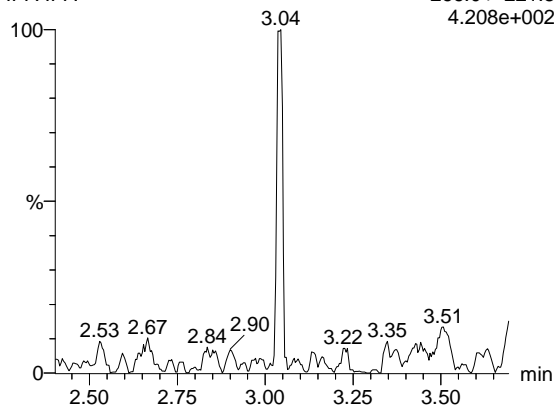
13C3-PFBA

170928G1_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 215.9 > 171.8 2.274e+002



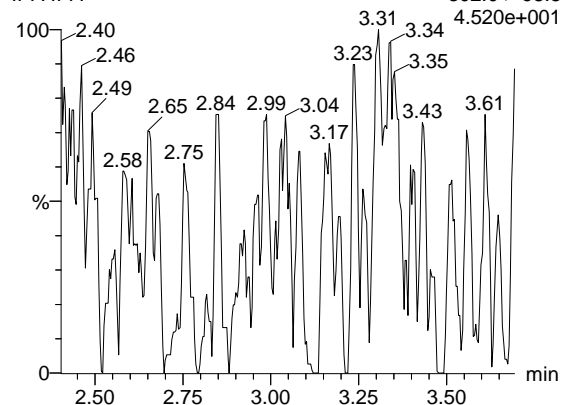
13C3-PFPeA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 266.0 > 221.8 4.208e+002



13C3-PFBS

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 302.0 > 98.8 4.520e+001



Dataset: Untitled

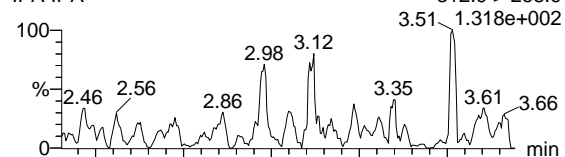
Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

Name: 170928G1_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

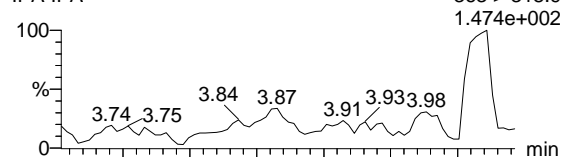
PFHxA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 312.9 > 268.9



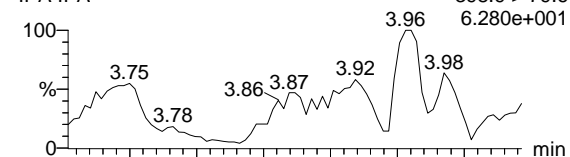
PFHpA

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 363 > 318.9

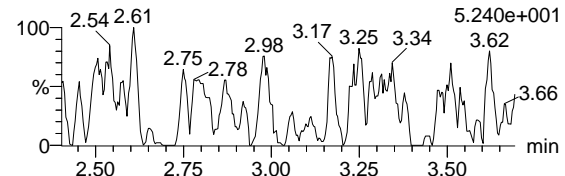


PFHxS

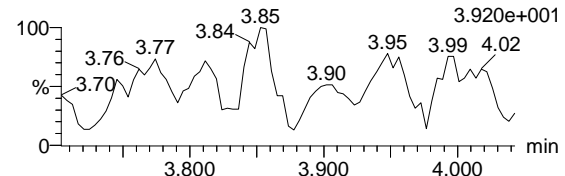
170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 398.9 > 79.6



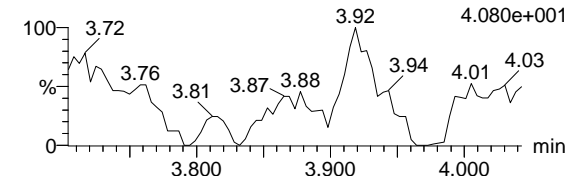
170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 312.9 > 118.7



170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 363 > 168.8

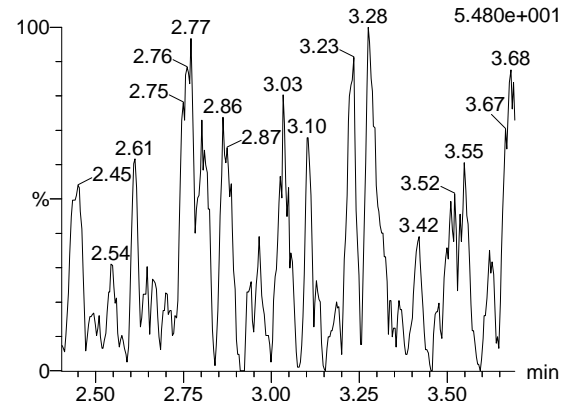


170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 398.9 > 98.6



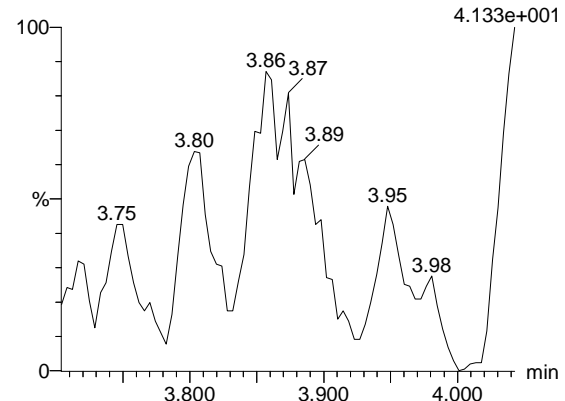
13C2-PFHxA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 315.0 > 269.8



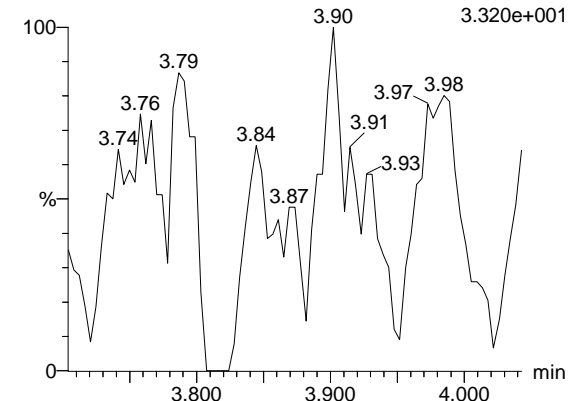
13C4-PFHpA

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 367.2 > 321.8



18O2-PFHxS

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 403 > 102.6



Dataset: Untitled

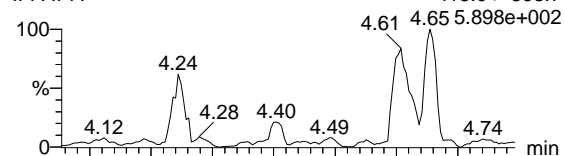
Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

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Name: 170928G1_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

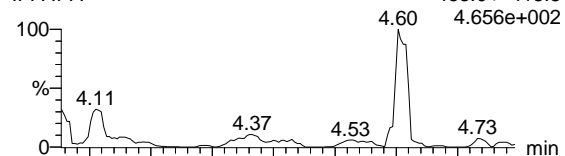
PFOA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 368.7



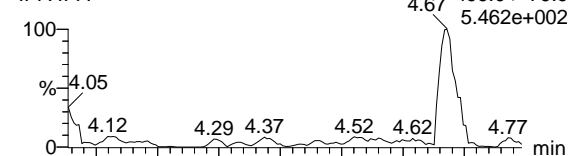
PFNA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 418.8

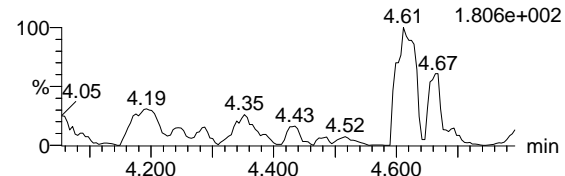


PFOS

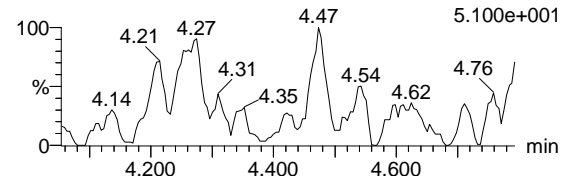
170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499.0 > 79.9



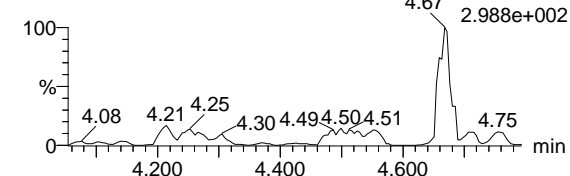
170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 168.8



170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 219.0

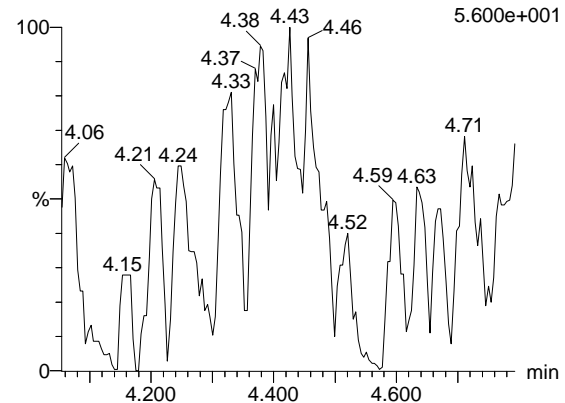


170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499 > 98.8



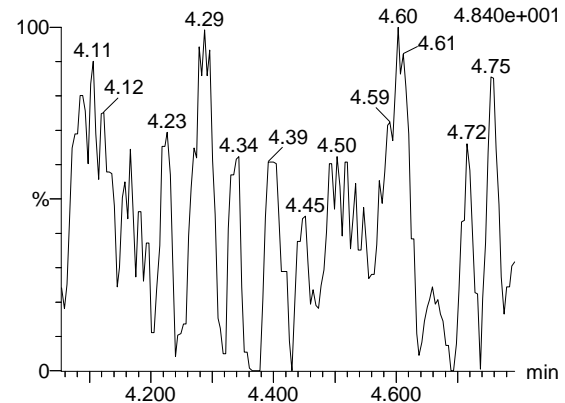
13C2-PFOA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 414.9 > 369.7



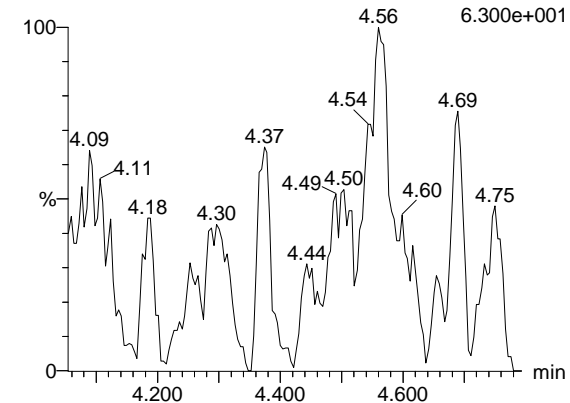
13C5-PFNA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 468.2 > 422.9



13C8-PFOS

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 507.0 > 79.9



Dataset: Untitled

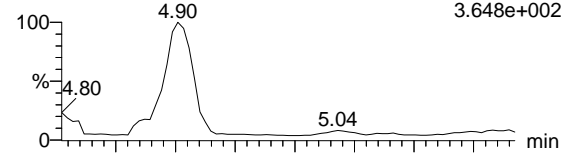
Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

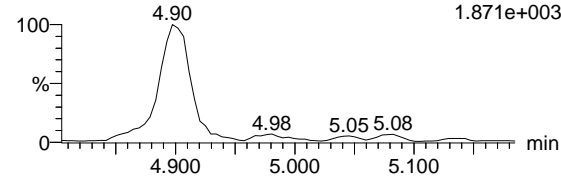
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PFDA

170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 219.0 3.648e+002

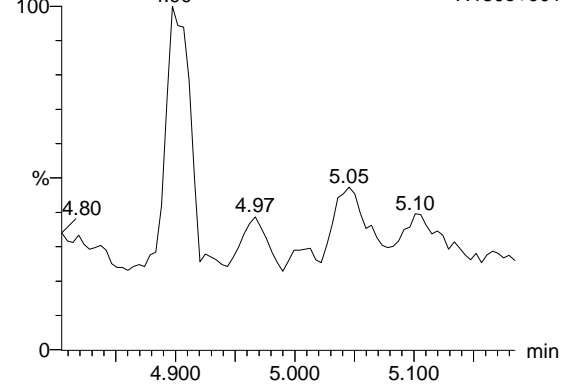


170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 468.7 1.871e+003



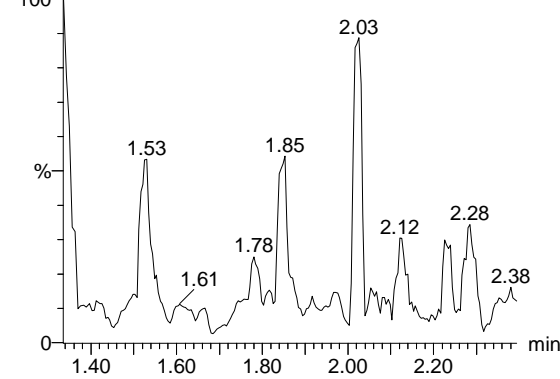
13C2-PFDA

170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 514.8 > 469.7 7.180e+001



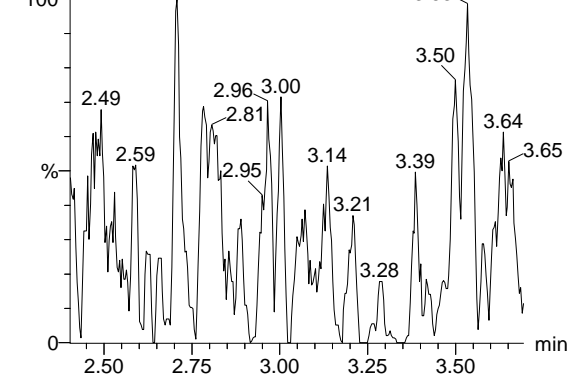
13C4-PFBA

170928G1_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 216.9 > 171.8 1.350e+002



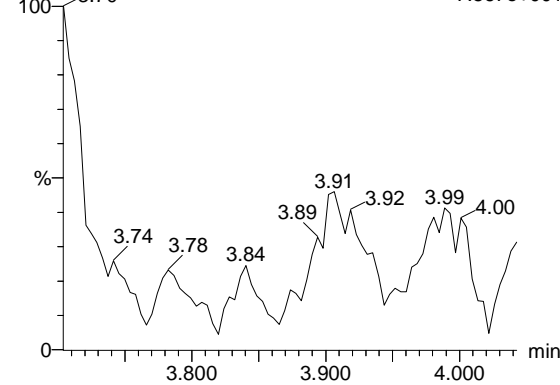
13C5-PFHxA

170928G1_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 318 > 272.9 5.840e+001



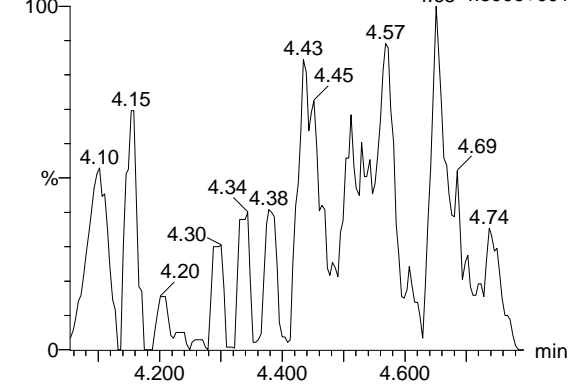
13C3-PFHxS

170928G1_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 401.9 > 79.9 7.567e+001



13C8-PFOA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 421.3 > 376 4.800e+001



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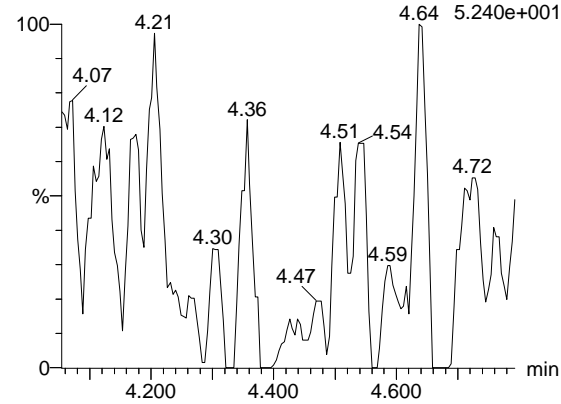
Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

Name: 170928G1_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

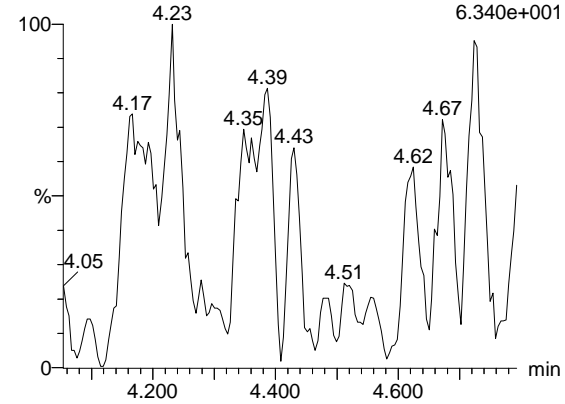
13C9-PFNA

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 472.2 > 426.9



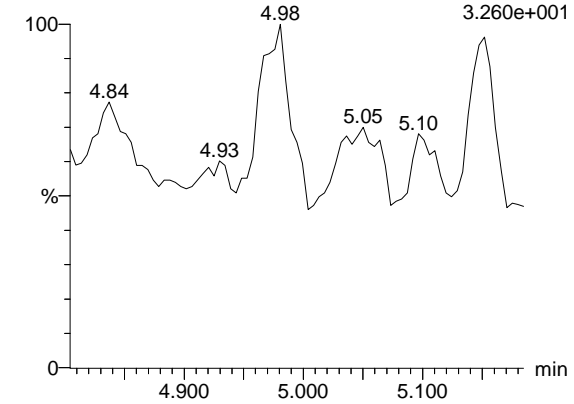
13C4-PFOS

170928G1_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 503.0 > 79.9



13C6-PFDA

170928G1_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 519.10 > 473.70



Analytical Standard Record

Vista Analytical Laboratory

17G2428

Description:	PFC NS Stock	Expires:	24-Jul-18
Solvent:	MeOH	Prepared:	24-Jul-17
Final Volume (mls):	20	Prepared By:	Isaac N. Johnson

PFOS and PFHxS branched components

Analyte	CAS Number	Concentration	Units
L-PFDS		1	ug/mL
6:2 FTS	27619-97-2	1	ug/mL
L-PFTeDA		1	ug/mL
L-PFPeA		1	ug/mL
L-PFOSA		1	ug/mL
L-PFOS		0.789	ug/mL
L-PFODA		1	ug/mL
L-PFOA		1	ug/mL
L-PFNA		1	ug/mL
L-PFHxS		0.812	ug/mL
L-PFHxDA		1	ug/mL
L-PFHxA		1	ug/mL
L-PFUnA		1	ug/mL
L-PFHpA		1	ug/mL
MeFOSA	31506-32-8	5	ug/mL
L-PFDoA		1	ug/mL
L-PFDA		1	ug/mL
L-PFBS		1	ug/mL
L-PFBA		1	ug/mL
L-8:2FTS		1	ug/mL
L-6:2 FTS		1	ug/mL
EtFOSE	1691-99-2	5	ug/mL
EtFOSAA	2991-50-6	1	ug/mL
EtFOSA	4151-50-2	5	ug/mL
Br-PFHxS	3871-99-6	0.189	ug/mL
8:2 FTS	39108-34-4	1	ug/mL
L-PFHpS		1	ug/mL
PFHxS	355-46-4	1	ug/mL
Total PFHxS		1	ug/mL
Total PFHpS		1	ug/mL
Total PFDS		1	ug/mL
Total 6:2 FTS		1	ug/mL
PFUnA	2058-94-8	1	ug/mL
PFTTrDA	72629-94-8	1	ug/mL
PFTeDA	376-06-7	1	ug/mL
PFPeA	2706-90-3	1	ug/mL

Analytical Standard Record

Vista Analytical Laboratory

17G2428

PFOSA	754-91-6	1	ug/mL
PFOS	1763-23-1	1	ug/mL
PFODA	16517-11-6	1	ug/mL
L-PFTrDA		1	ug/mL
PFNA	375-95-1	1	ug/mL
Total PFUnA		1	ug/mL
PFHxDA	67905-19-5	1	ug/mL
PFHxA	307-24-4	1	ug/mL
PFHpS	375-92-8	1	ug/mL
PFHpA	375-85-9	1	ug/mL
PFDS	335-77-3	1	ug/mL
PFDoA	307-55-1	1	ug/mL
PFDA	335-76-2	1	ug/mL
PFBS	375-73-5	1	ug/mL
PFBA	375-22-4	1	ug/mL
MeFOSE	24448-09-7	5	ug/mL
MeFOSAA	2355-31-9	1	ug/mL
PFOA	335-67-1	1	ug/mL

Analytical Standard Record

Vista Analytical Laboratory

17G2428

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Comments	(mls)
16J0422	PFDoA	04-Oct-16	** Vendor **	31-May-21		0.4
16J0424	PFNA	04-Oct-16	** Vendor **	23-Oct-20		0.4
16J0425	PFPeA	04-Oct-16	** Vendor **	31-May-21		0.4
17C1026	PFOA	10-Mar-17	Jamie C. Stockman	02-Feb-21		0.4
17D2616	PFUdA	26-Apr-17	** Vendor **	18-Oct-21		0.4
17D2617	PFHxDA	26-Apr-17	** Vendor **	25-May-21		0.4
17D2618	PFHpA	26-Apr-17	** Vendor **	02-Dec-21		0.4
17G1209	FOSA-I	12-Jul-17	** Vendor **	30-Sep-21		0.4
17G1312	PFTeDA	13-Jul-17	** Vendor **	30-Sep-21		0.4
17G1313	PFTrDA	13-Jul-17	** Vendor **	02-May-22		0.4
17G1314	N-MeFOSA-M	13-Jul-17	** Vendor **	24-May-21		2
17G1316	N-MeFOSE-M	13-Jul-17	** Vendor **	24-Apr-22		2
17G1317	N-EtFOSE-M	13-Jul-17	** Vendor **	24-Apr-22		2
17G1320	N-EtFOSA-M	13-Jul-17	** Vendor **	24-May-21		2
17G1323	br-PFHxSK	13-Jul-17	** Vendor **	04-Jan-22		0.44
17G1324	br-PFOSK	13-Jul-17	** Vendor **	12-Jan-22	Linear is 78.8% of the mix. (4	0.431
17G1325	L-PFDS	13-Jul-17	** Vendor **	17-Feb-22		0.415
17G1326	L-PFHpS	13-Jul-17	** Vendor **	18-Oct-21		0.42
17G1805	PFDA	18-Jul-17	** Vendor **	31-May-21		0.4
17G1806	PFHxA	18-Jul-17	** Vendor **	02-Dec-21		0.4
17G1807	MeFOSAA	18-Jul-17	** Vendor **	11-Jan-22		0.4
17G1808	EtFOSAA	18-Jul-17	** Vendor **	11-Jan-22		0.4
17G1809	PFBA	18-Jul-17	** Vendor **	29-May-22		0.4
17G1810	PFODA	18-Jul-17	** Vendor **	29-Apr-21		0.4
17G1812	8:2FTS	18-Jul-17	** Vendor **	12-Dec-21		0.418
17G1813	6:2FTS	18-Jul-17	** Vendor **	20-Apr-22		0.422
17G2406	L-PFBS dil	24-Jul-17	Isaac N. Johnson	24-Jul-18		0.8

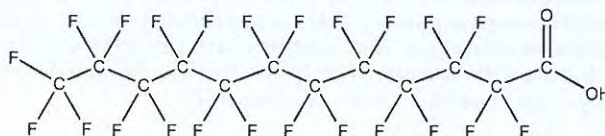
16J0422



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: PFD0A **LOT NUMBER:** PFD0A0516
COMPOUND: Perfluoro-n-dodecanoic acid
STRUCTURE: **CAS #:** 307-55-1



MOLECULAR FORMULA: $C_{12}HF_{23}O_2$ **MOLECULAR WEIGHT:** 614.10
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/31/2016
EXPIRY DATE: (mm/dd/yyyy) 05/31/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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

Date: 06/02/2016
 (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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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.

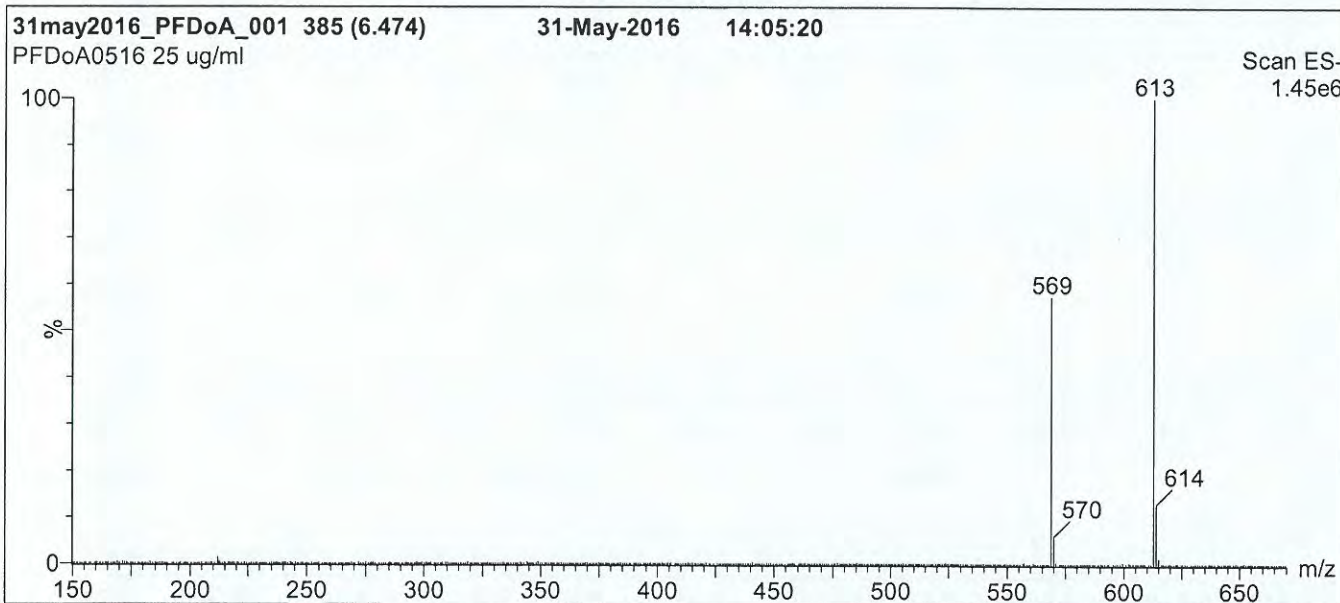
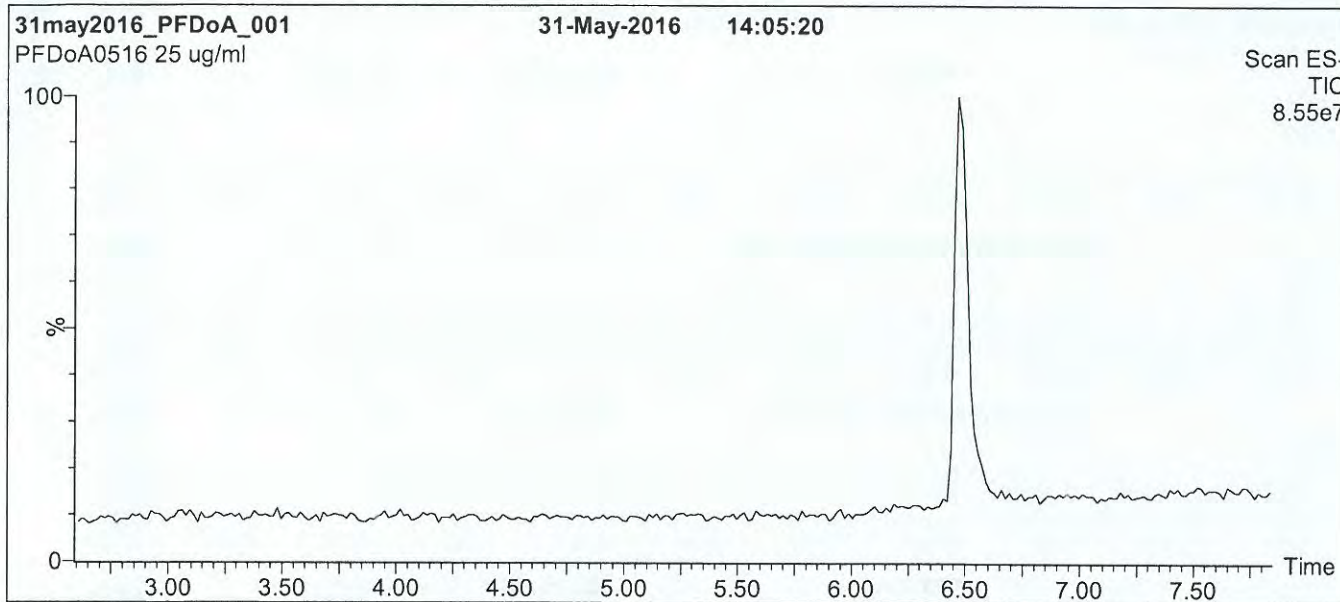
QUALITY MANAGEMENT:

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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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Figure 1: PFDoA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7.5 min and hold for
 1.5 min before returning to initial conditions in 0.5 min.
 Time: 10 min

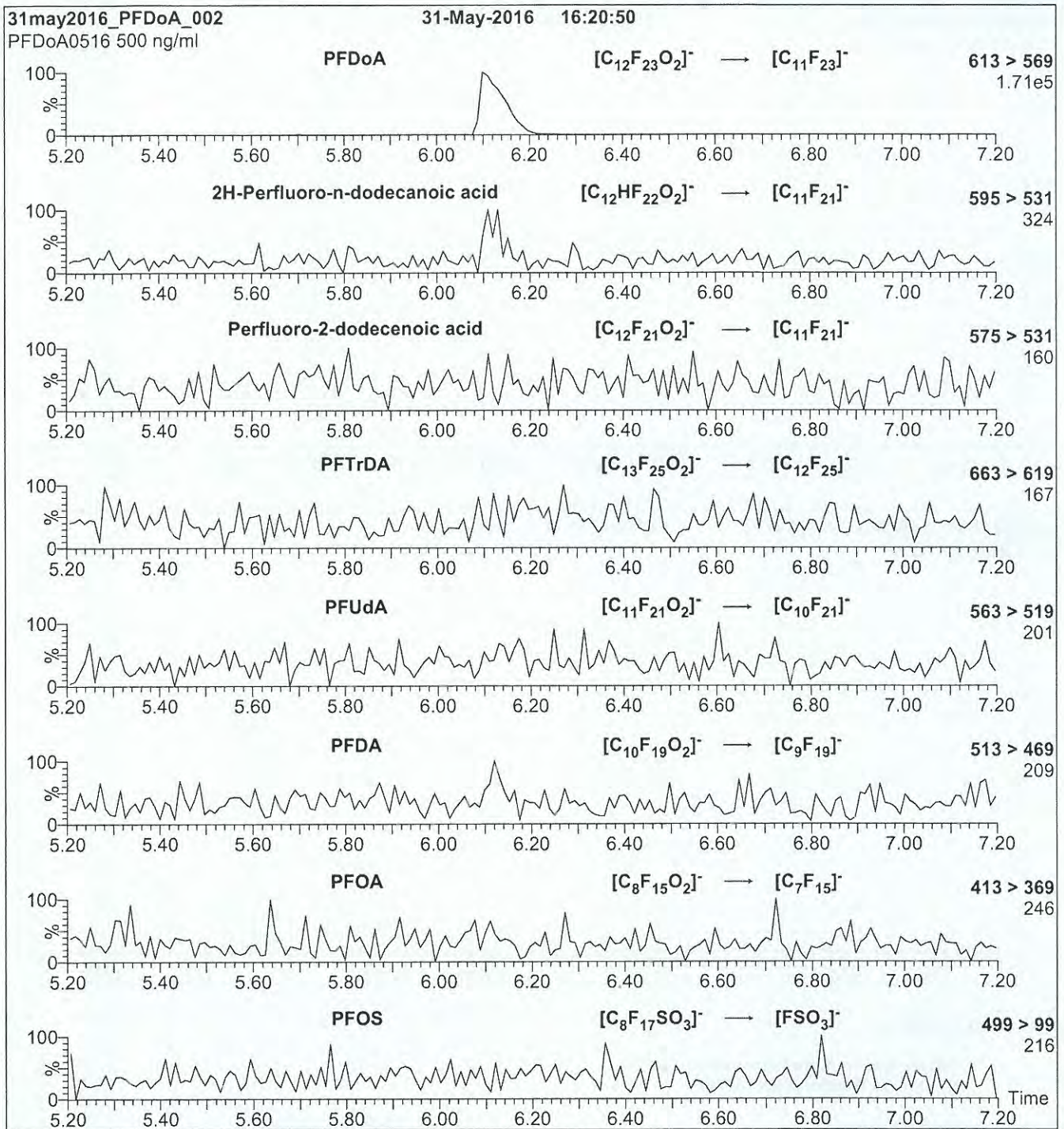
Flow: 300 μl/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.00
 Cone Voltage (V) = 20.00
 Cone Gas Flow (l/hr) = 100
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml PFDoA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 13

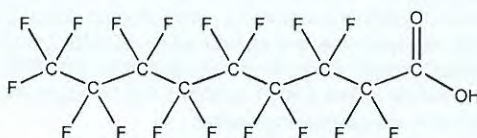
16J0424



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: PFNA **LOT NUMBER:** PFNA1015
COMPOUND: Perfluoro-n-nonanoic acid
STRUCTURE: **CAS #:** 375-95-1



MOLECULAR FORMULA: $C_9HF_{17}O_2$ **MOLECULAR WEIGHT:** 464.08
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 10/23/2015
EXPIRY DATE: (mm/dd/yyyy) 10/23/2020
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

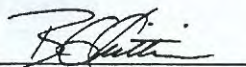
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

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 ~ 0.1% of perfluoro-n-octanoic acid (PFOA) and < 0.1% of perfluoro-n-heptanoic acid (PFHpA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____


B.G. Chittim

Date: 10/30/2015
(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.

HAZARDS:

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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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 $\pm 5\%$ (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:

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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.

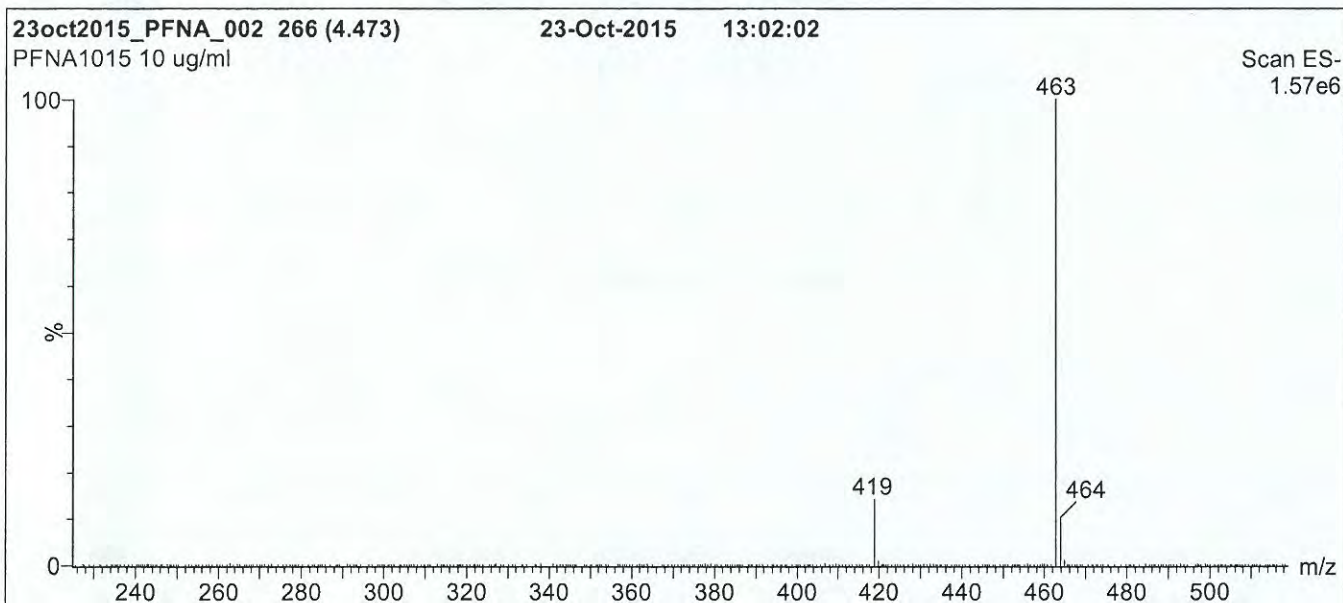
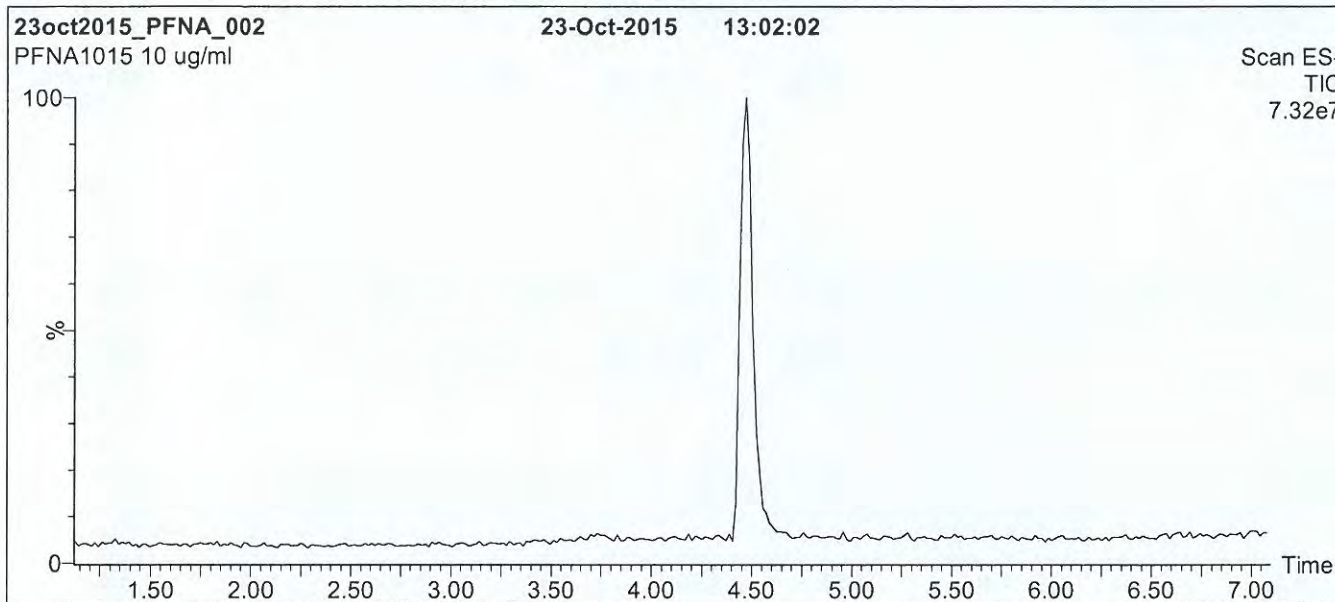
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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: PFNA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP_{1a}
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for 2 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

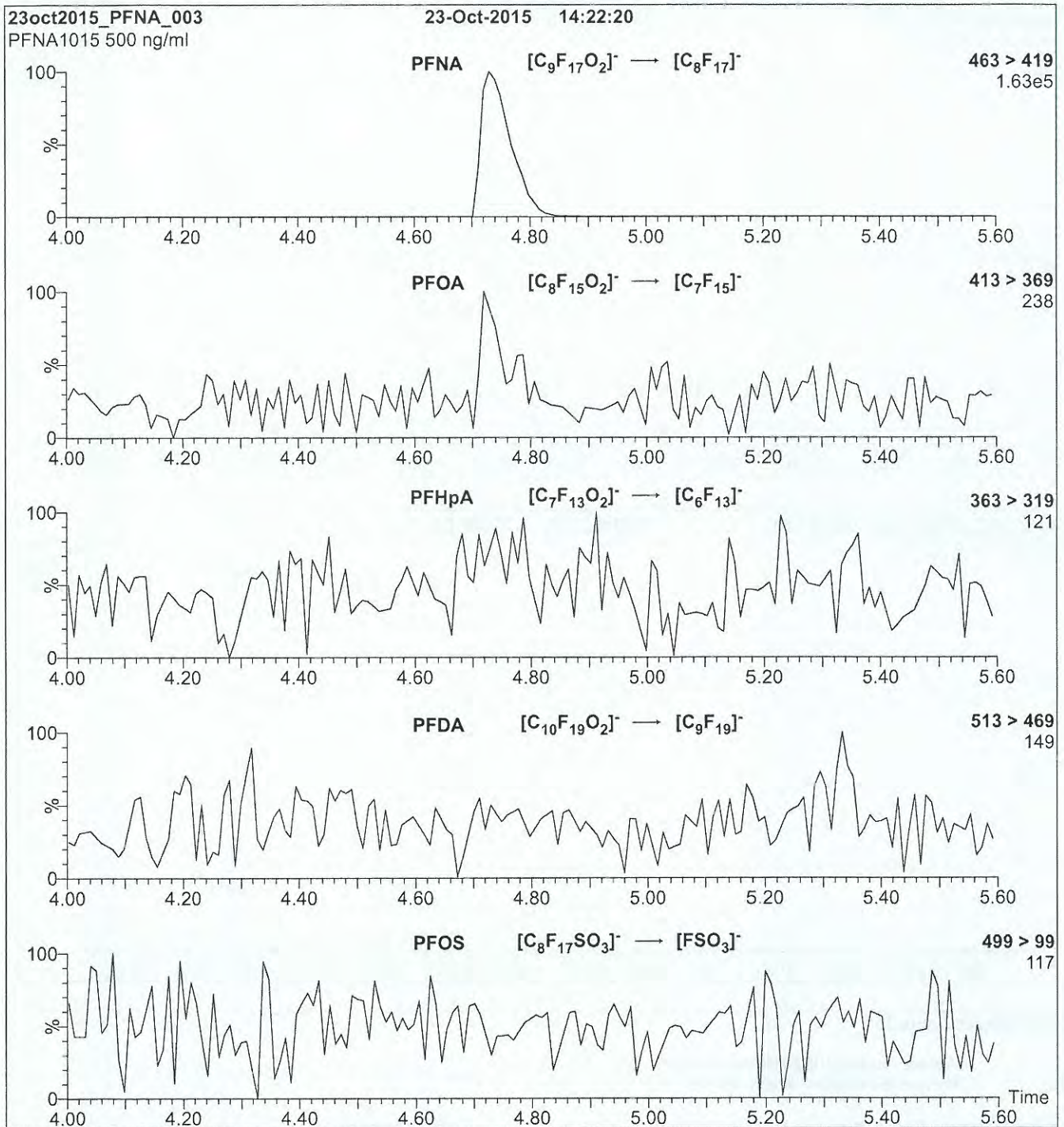
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
 10 μ l (500 ng/ml PFNA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
 Collision Energy (eV) = 11

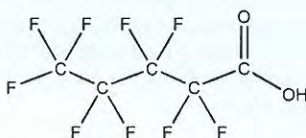
16 JOM 25



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: PFPeA **LOT NUMBER:** PFPeA0516
COMPOUND: Perfluoro-n-pentanoic acid
STRUCTURE: **CAS #:** 2706-90-3



MOLECULAR FORMULA: C₅HF₉O₂ **MOLECULAR WEIGHT:** 264.05
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/31/2016
EXPIRY DATE: (mm/dd/yyyy) 05/31/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

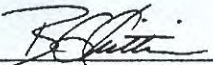
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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-heptanoic acid (PFHpA) and ~ 0.2% of C₅H₂F₈O₂ (hydrido - derivative) as measured by ¹⁹F NMR.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 06/02/2016
B.G. Chittim (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:

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HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

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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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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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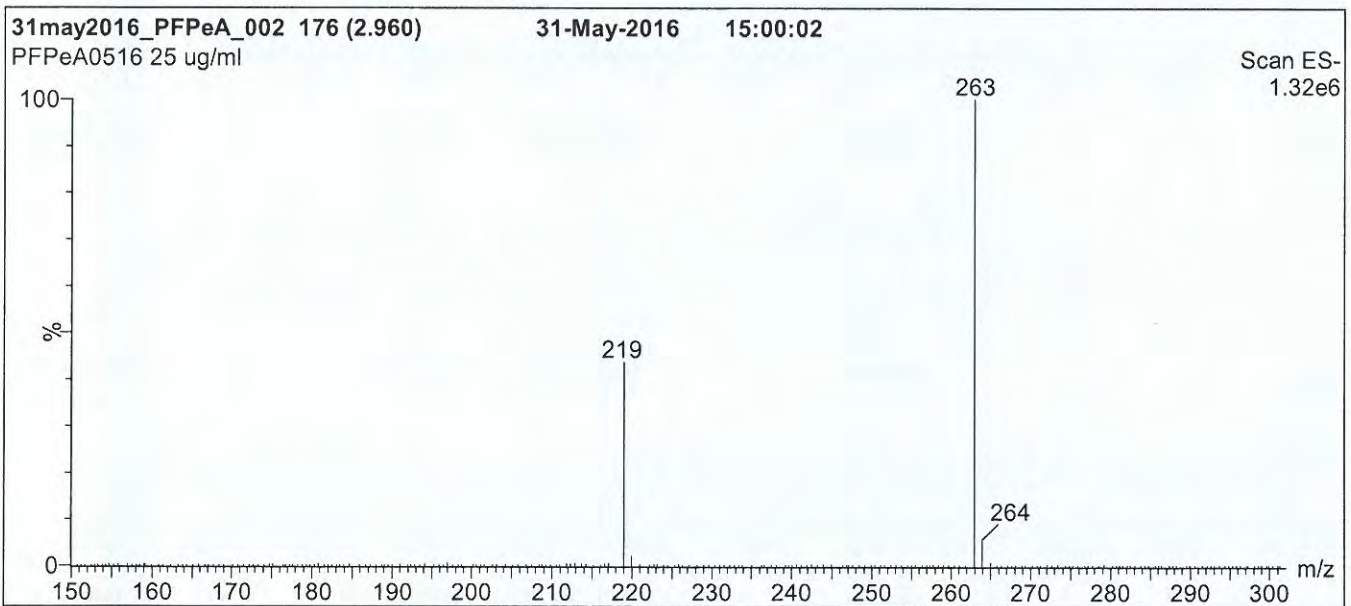
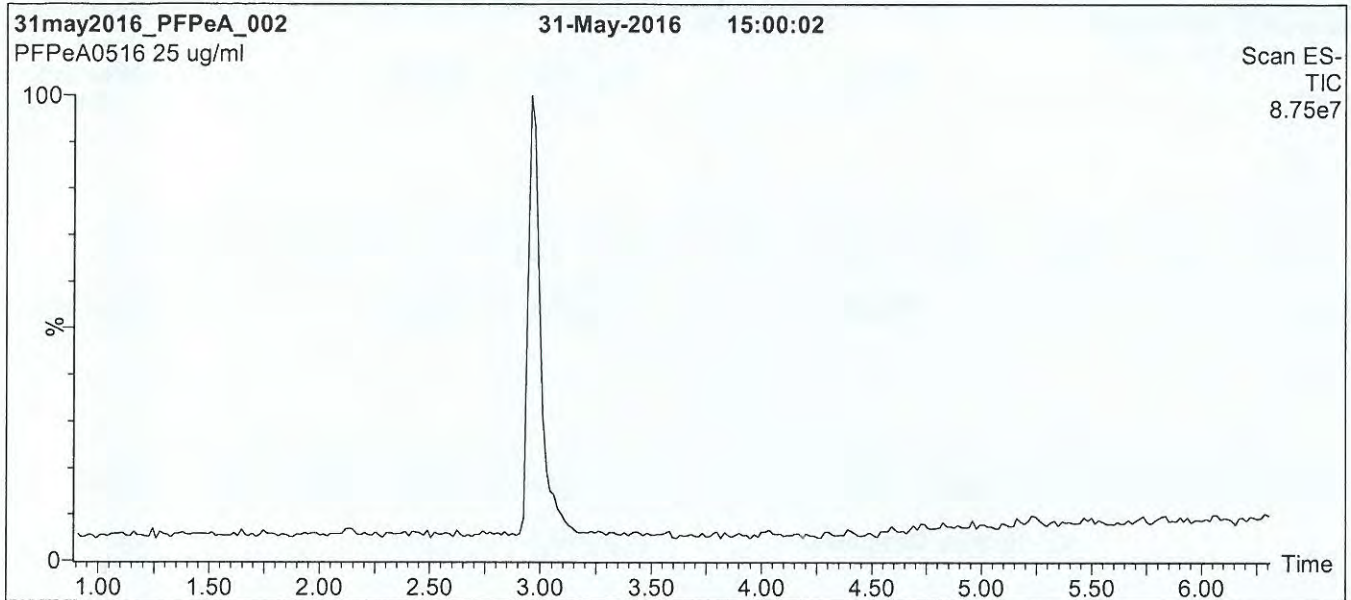
QUALITY MANAGEMENT:

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Figure 1: PFPeA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 30% (80:20 MeOH:ACN) / 70% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for 1.5 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

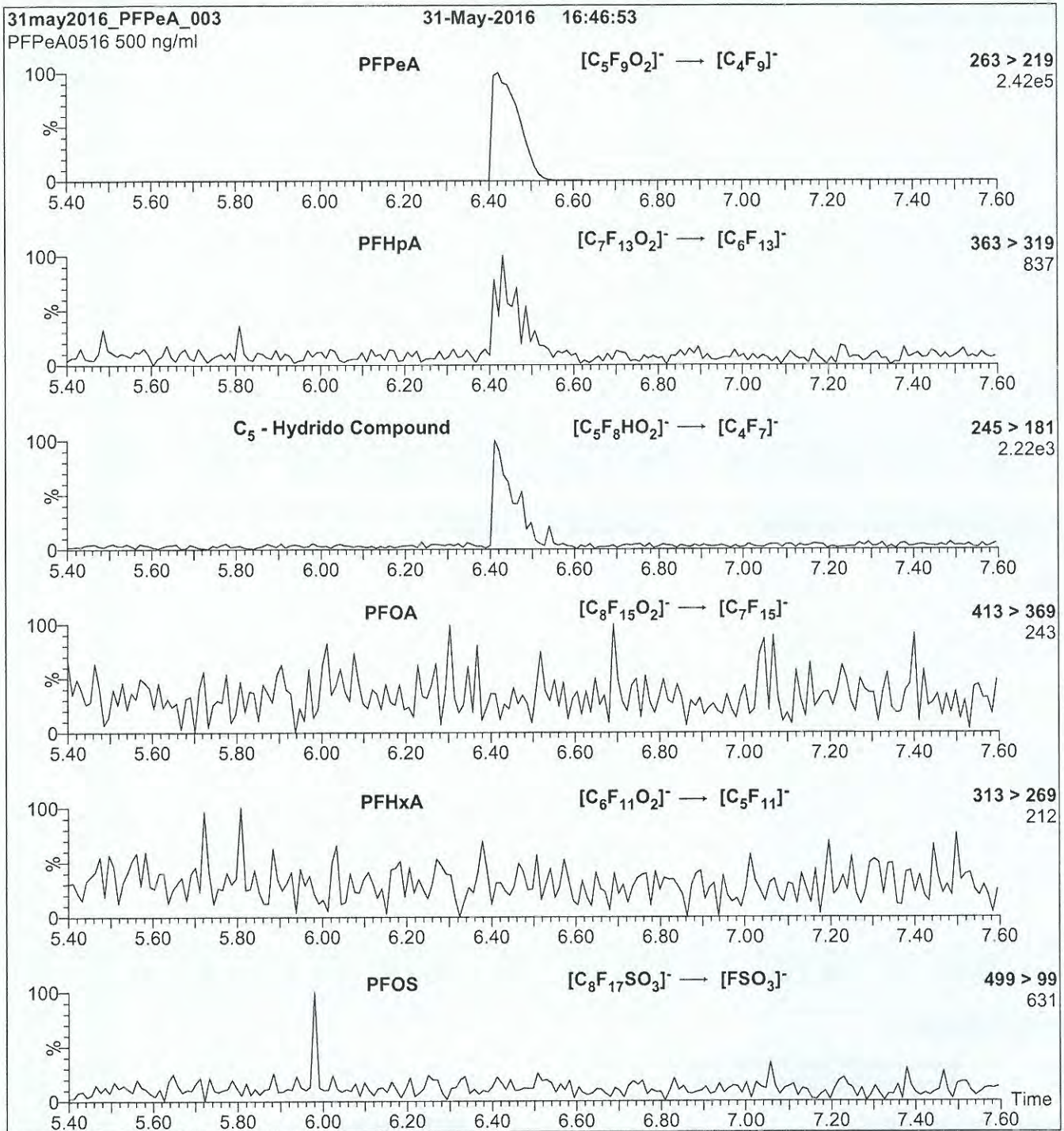
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 60
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection 10 µl (500 ng/ml PFPeA)	MS Parameters
Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H ₂ O (both with 10 mM NH ₄ OAc buffer)	Collision Gas (mbar) = 3.20e-3 Collision Energy (eV) = 9
Flow: 300 µl/min	

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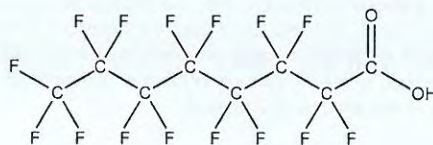


WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFOA **LOT NUMBER:** PFOA0716
COMPOUND: Perfluoro-n-octanoic acid

STRUCTURE: **CAS #:** 335-67-1



MOLECULAR FORMULA: C₈H₁₅F₁₅O₂ **MOLECULAR WEIGHT:** 414.07
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 08/02/2016
EXPIRY DATE: (mm/dd/yyyy) 08/02/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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

Date: 08/05/2016
(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.

HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

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HOMOGENEITY:

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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.

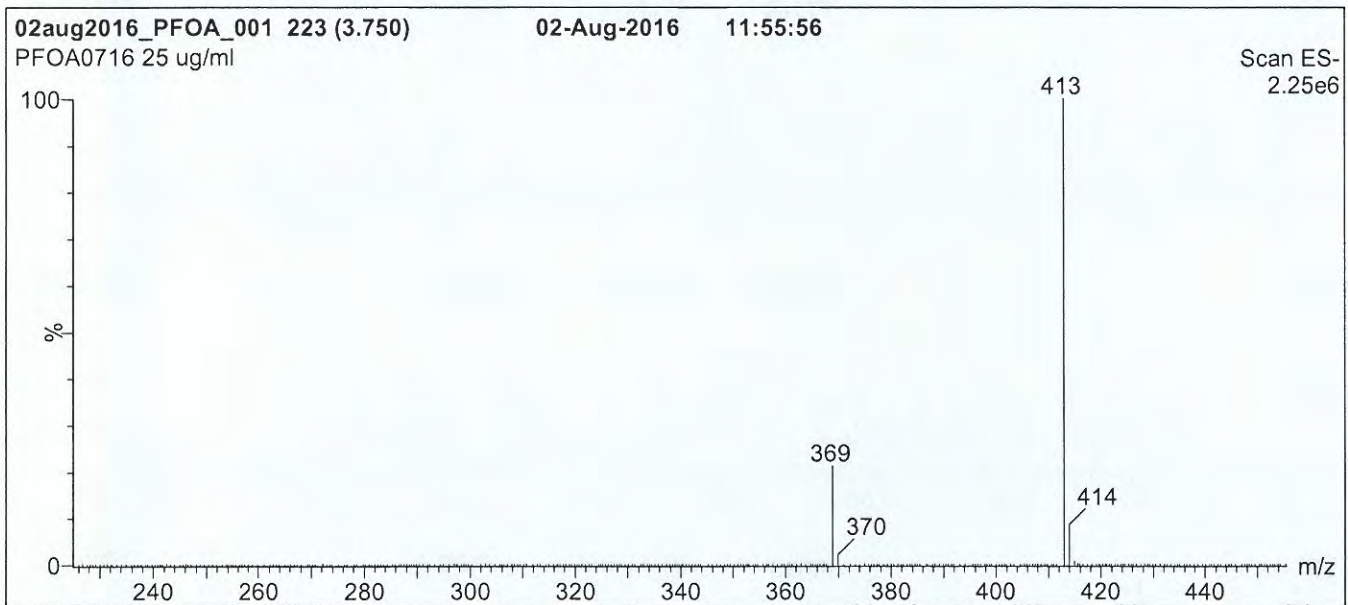
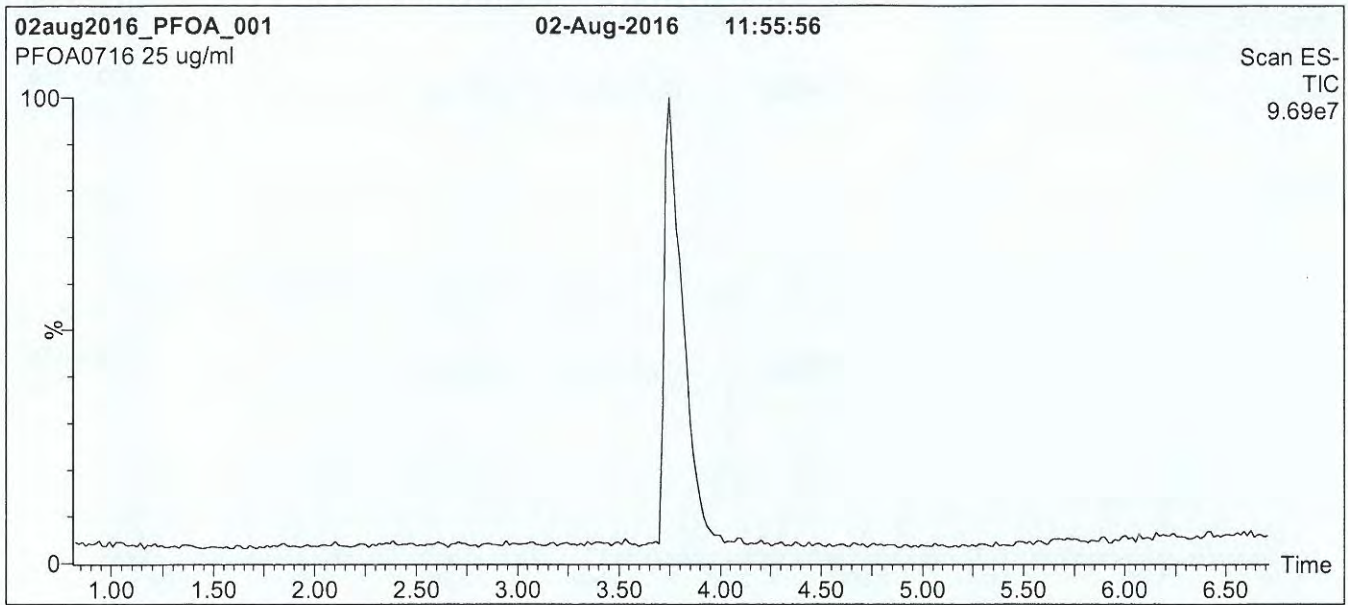
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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: PFOA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for
 1.5 min before returning to initial conditions in 0.5 min.
 Time: 10 min

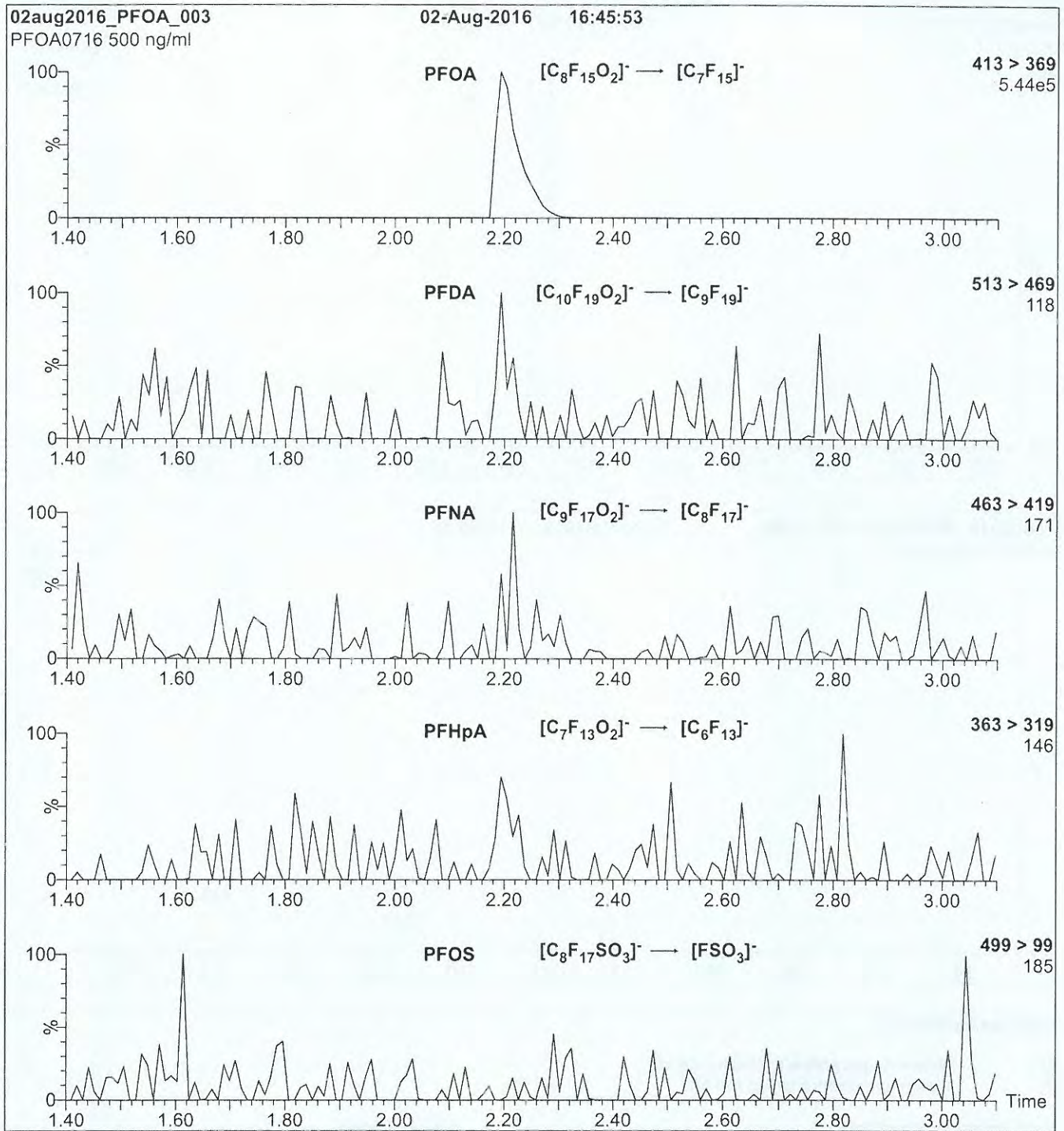
Flow: 300 μl/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 100
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFOA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 10

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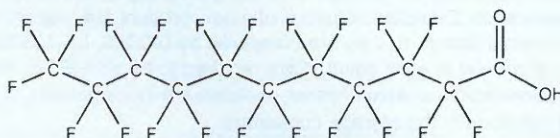


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFUdA **LOT NUMBER:** PFUdA1016
COMPOUND: Perfluoro-n-undecanoic acid

STRUCTURE: **CAS #:** 2058-94-8



MOLECULAR FORMULA: C₁₁HF₂₁O₂ **MOLECULAR WEIGHT:** 564.09
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 10/18/2016
EXPIRY DATE: (mm/dd/yyyy) 10/18/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

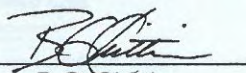
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 **Date:** 10/19/2016
(mm/dd/yyyy)

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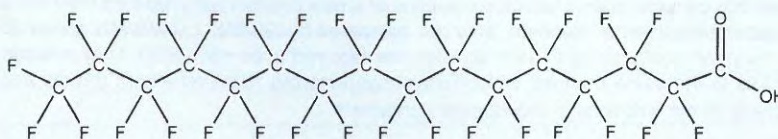
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFHxDA
COMPOUND: Perfluoro-n-hexadecanoic acid

LOT NUMBER: PFHxDA0516

STRUCTURE:

CAS #: 67905-19-5



MOLECULAR FORMULA: C₁₆HF₃₁O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 814.13
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/25/2016
EXPIRY DATE: (mm/dd/yyyy) 05/25/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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 PFODA.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim
Date: 05/27/2016
(mm/dd/yyyy)

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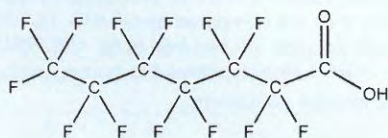


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CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: PFHpA **LOT NUMBER:** PFHpA1216
COMPOUND: Perfluoro-n-heptanoic acid

STRUCTURE: **CAS #:** 375-85-9



MOLECULAR FORMULA: $C_7HF_{13}O_2$ **MOLECULAR WEIGHT:** 364.06
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 12/02/2016
EXPIRY DATE: (mm/dd/yyyy) 12/02/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:


Figure 1: LC/MS Data (TIC 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

Date: 12/12/2016
 (mm/dd/yyyy)

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17G1209


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION
PRODUCT CODE:

FOSA-I ✓

LOT NUMBER:

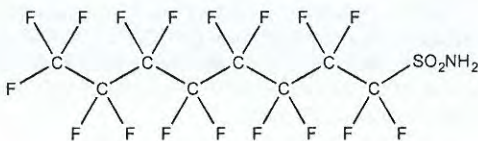
FOSA0916I ✓

COMPOUND:

Perfluoro-1-octanesulfonamide

STRUCTURE:**CAS #:**

754-91-6

**MOLECULAR FORMULA:** $C_8H_2F_{17}NO_2S$ **MOLECULAR WEIGHT:**

499.14

CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):**

Isopropanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

09/30/2016

EXPIRY DATE: (mm/dd/yyyy)

09/30/2021

RECOMMENDED STORAGE:

Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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:

 B.G. Chittim

Date: 10/07/2016

(mm/dd/yyyy)

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17G1209

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

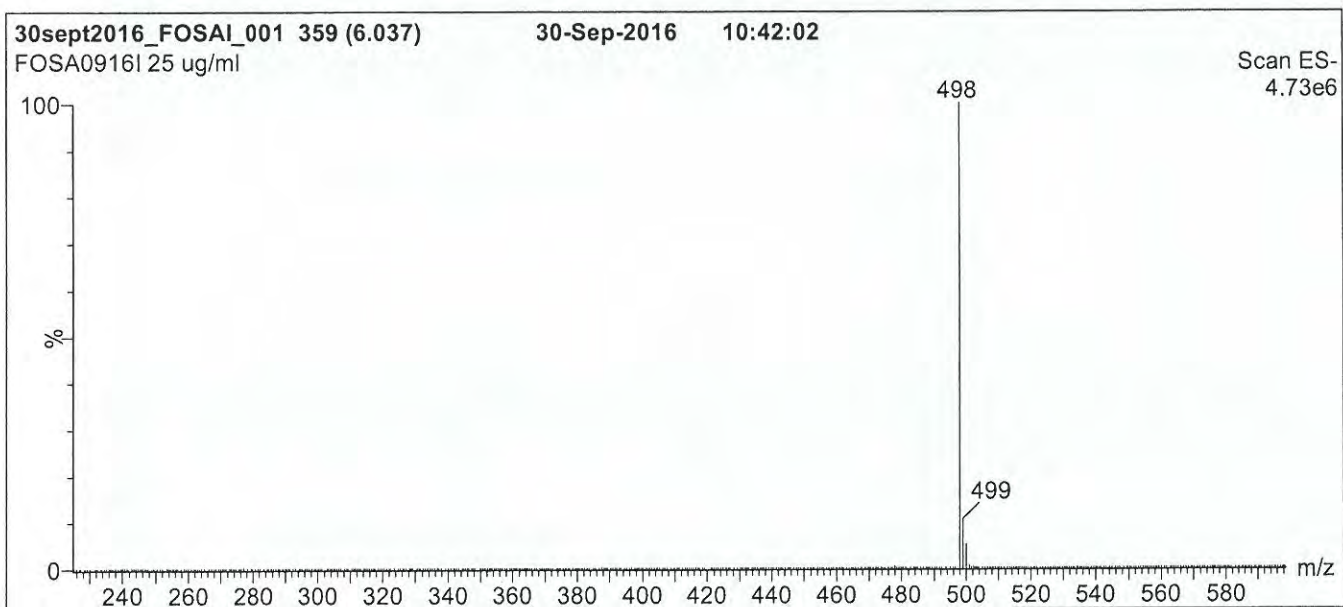
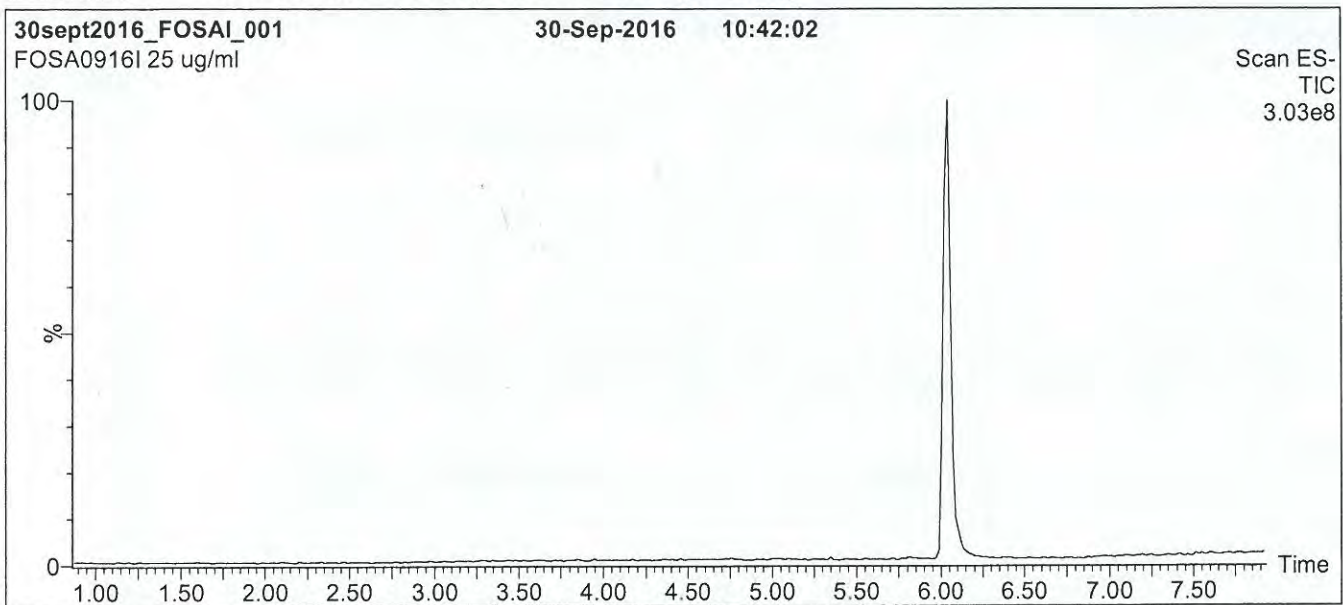
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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1761209

Figure 1: FOSA-I; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

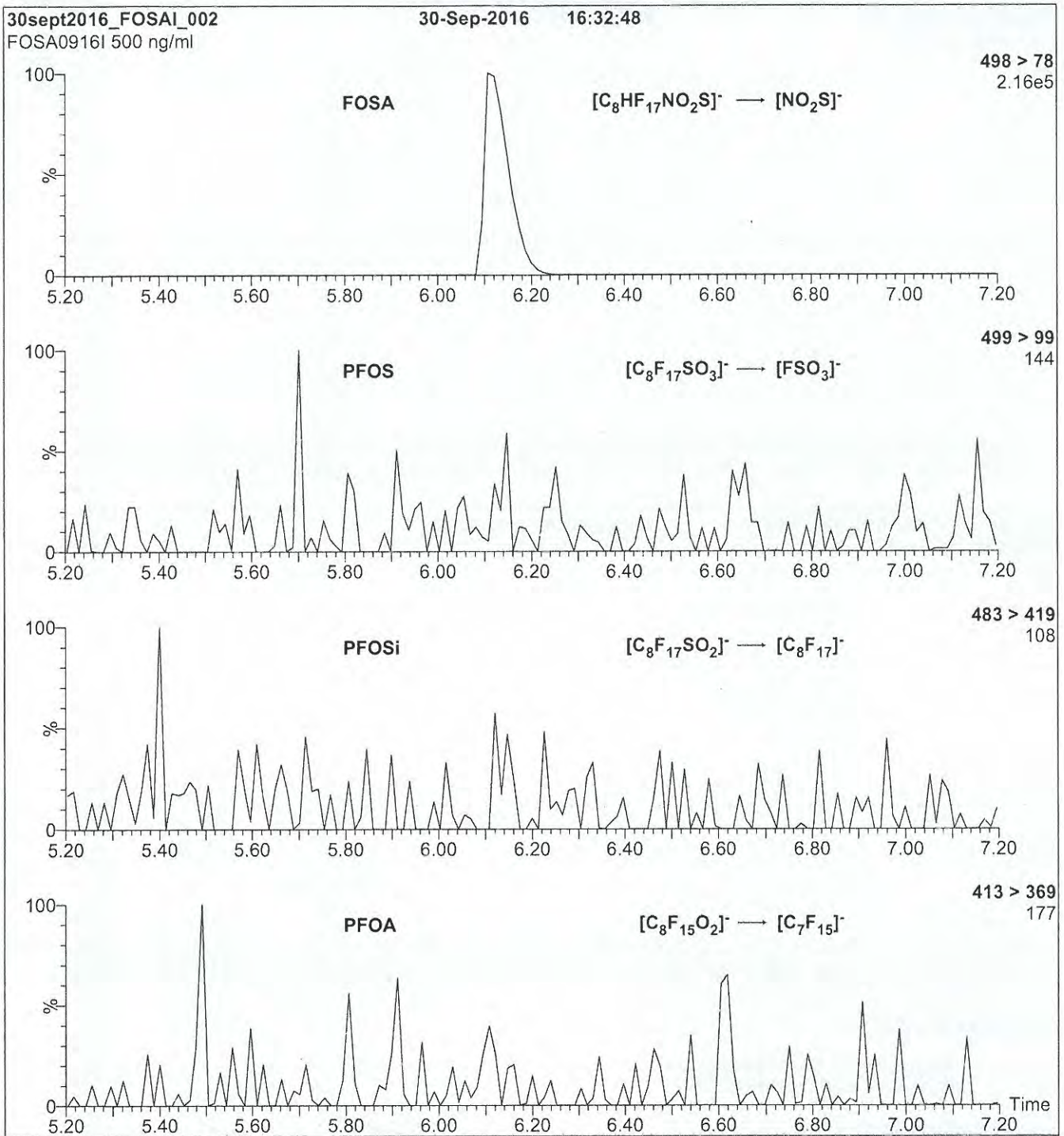
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1209

Figure 2: FOSA-I; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml FOSA-I)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.20e-3
Collision Energy (eV) = 30

17G1312



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CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE:

✓
PFTeDA

LOT NUMBER:

✓
PFTeDA0916

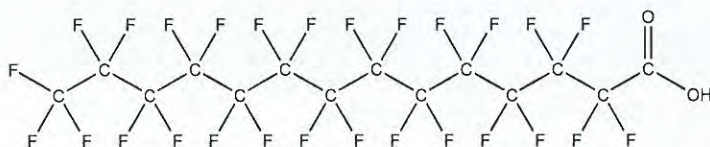
COMPOUND:

Perfluoro-n-tetradecanoic acid

STRUCTURE:

CAS #:

376-06-7



MOLECULAR FORMULA:

$C_{14}HF_{27}O_2$

MOLECULAR WEIGHT:

714.11

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

SOLVENT(S):

Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

09/30/2016

EXPIRY DATE: (mm/dd/yyyy)

09/30/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 PFDa ($C_{12}HF_{23}O_2$) and ~ 0.2% of PFPeDA ($C_{15}HF_{29}O_2$).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 10/05/2016

(mm/dd/yyyy)

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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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

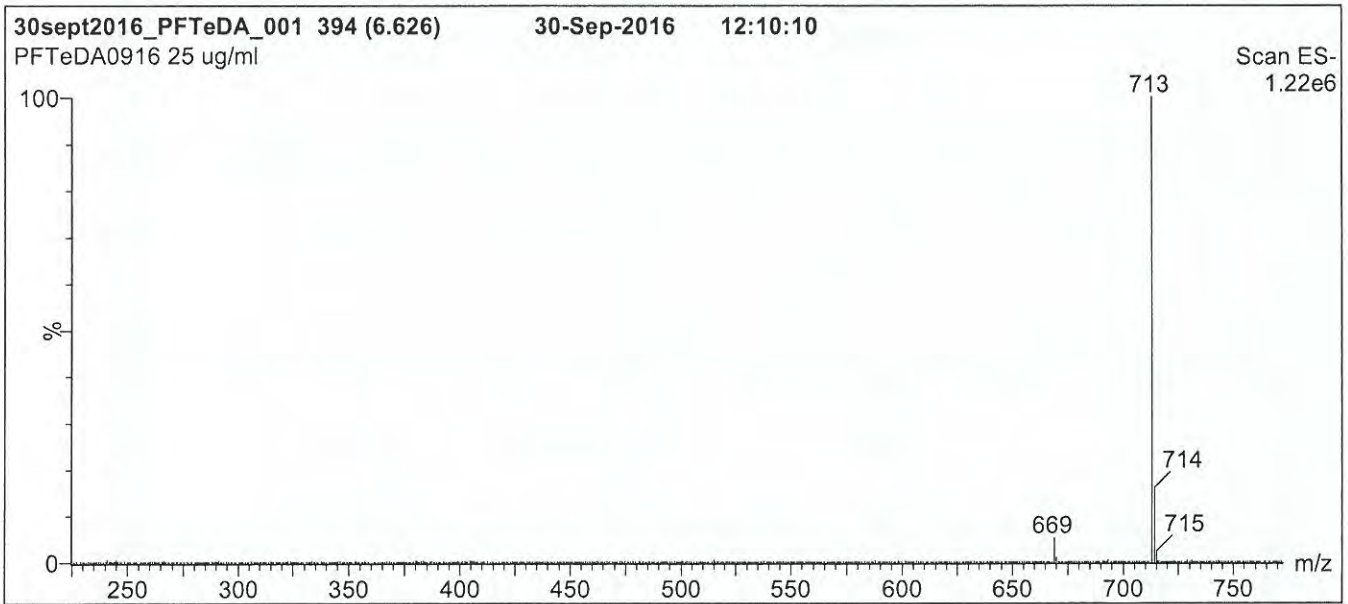
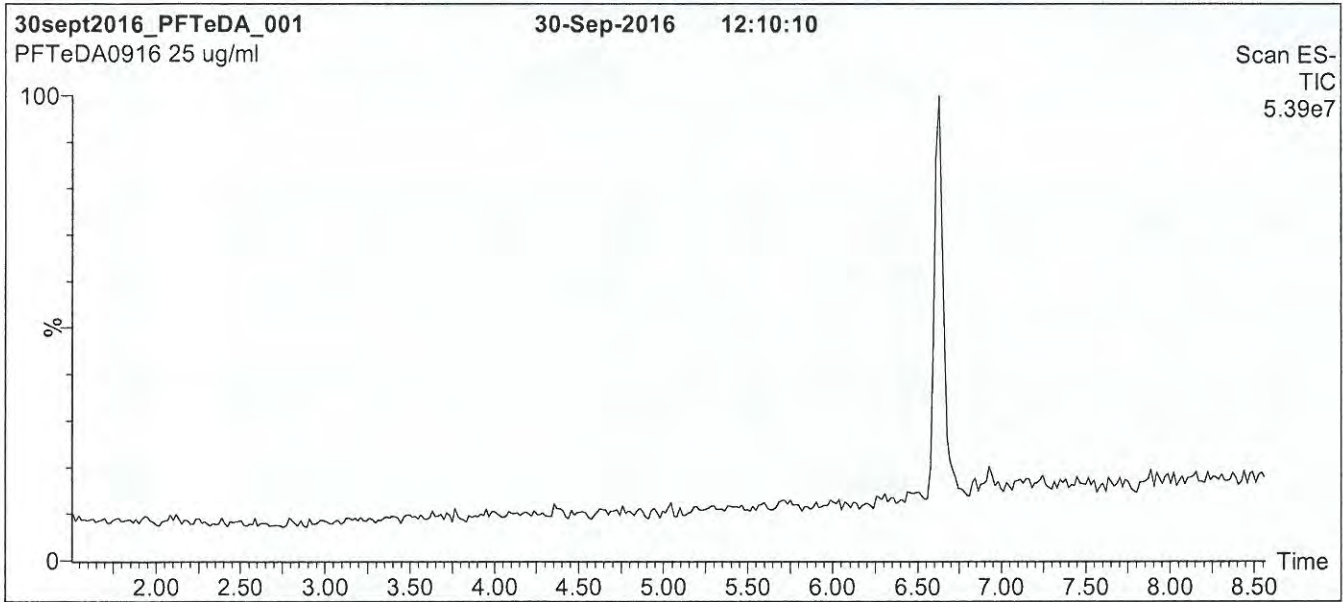
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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

17G1312

Figure 1: PFTeDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 65% (80:20 MeOH:ACN) / 35% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

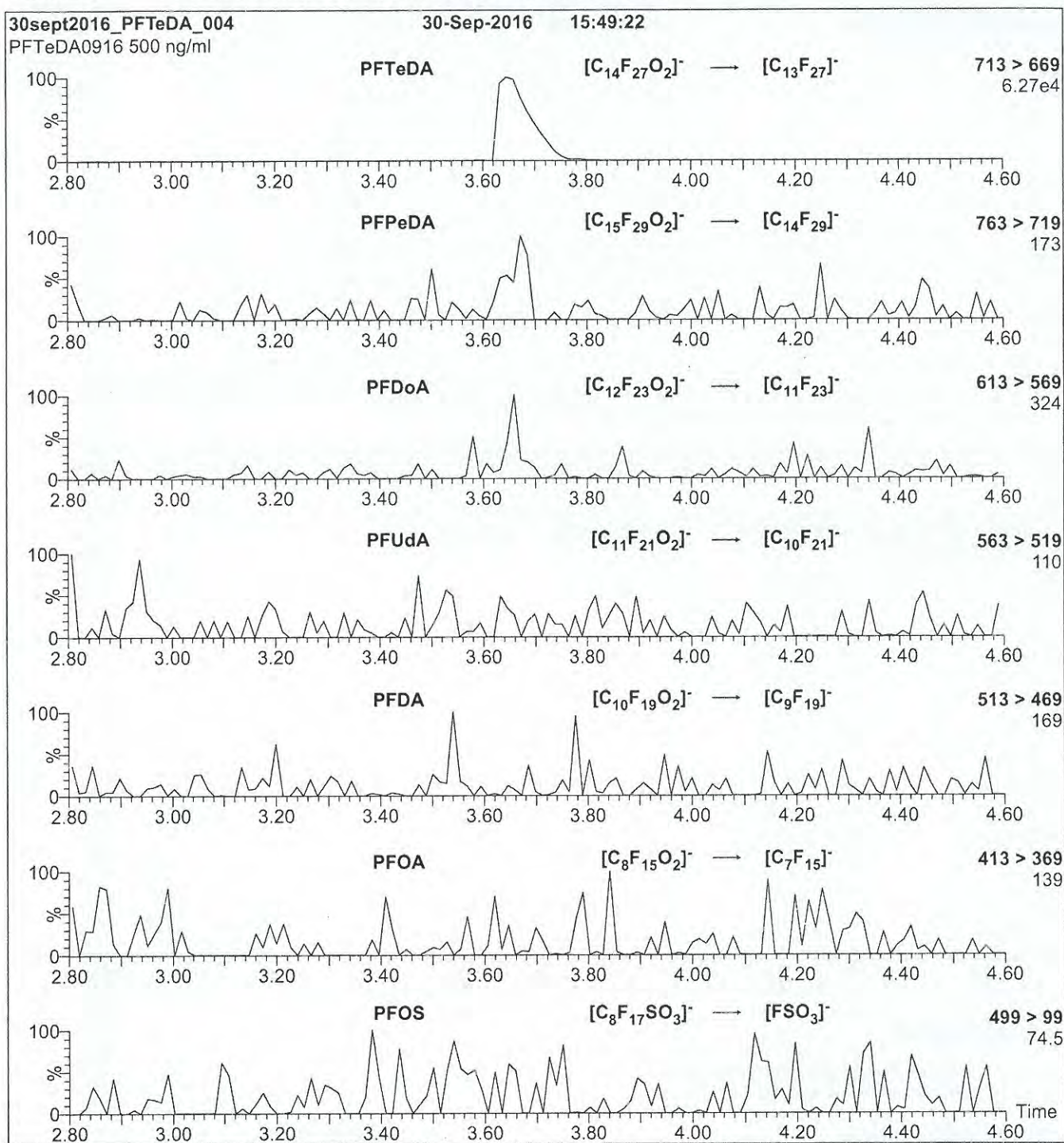
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17G1312

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFTeDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

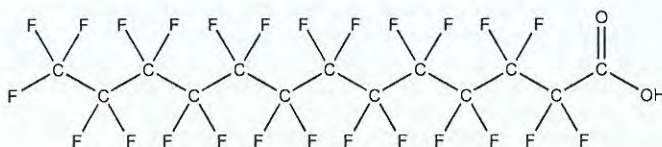
Collision Gas (mbar) = 3.20e-3
Collision Energy (eV) = 14

17G1313


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: PFTTrDA ✓
COMPOUND: Perfluoro-n-tridecanoic acid
LOT NUMBER: PFTTrDA0517 ✓
STRUCTURE:
CAS #: 72629-94-8



MOLECULAR FORMULA: $C_{13}HF_{25}O_2$
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/02/2017
EXPIRY DATE: (mm/dd/yyyy) 05/02/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

MOLECULAR WEIGHT: 664.11
SOLVENT(S): Methanol
 Water (<1%)

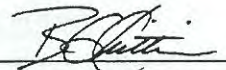
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 ~ 0.1% of PFUdA ($C_{11}HF_{21}O_2$), ~ 0.4% of PFDaA ($C_{12}HF_{23}O_2$), and ~ 0.1% of PFTeDA ($C_{14}HF_{27}O_2$).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager

Date: 05/04/2017
(mm/dd/yyyy)

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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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

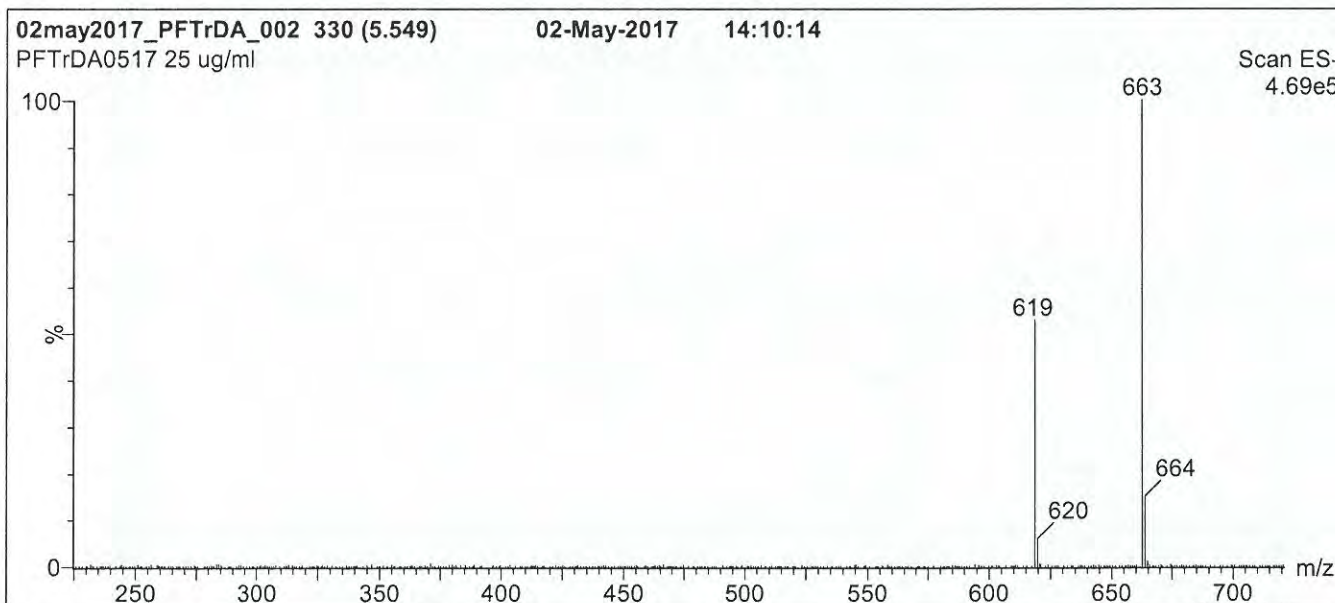
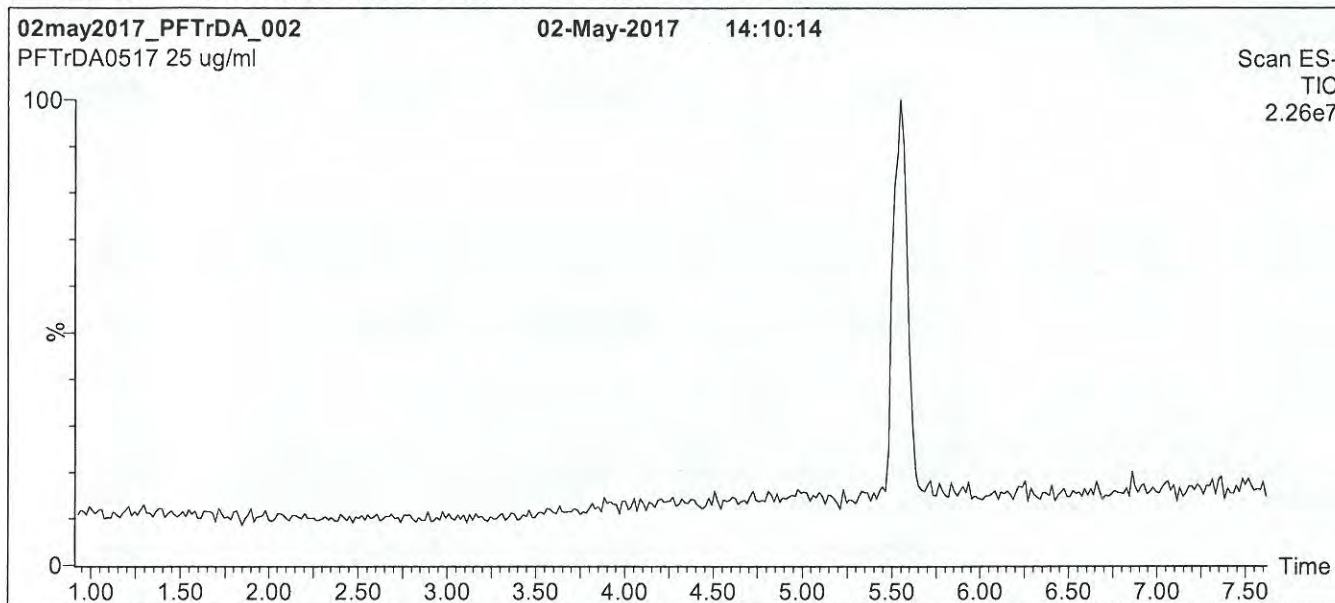
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1313

Figure 1: PFTrDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

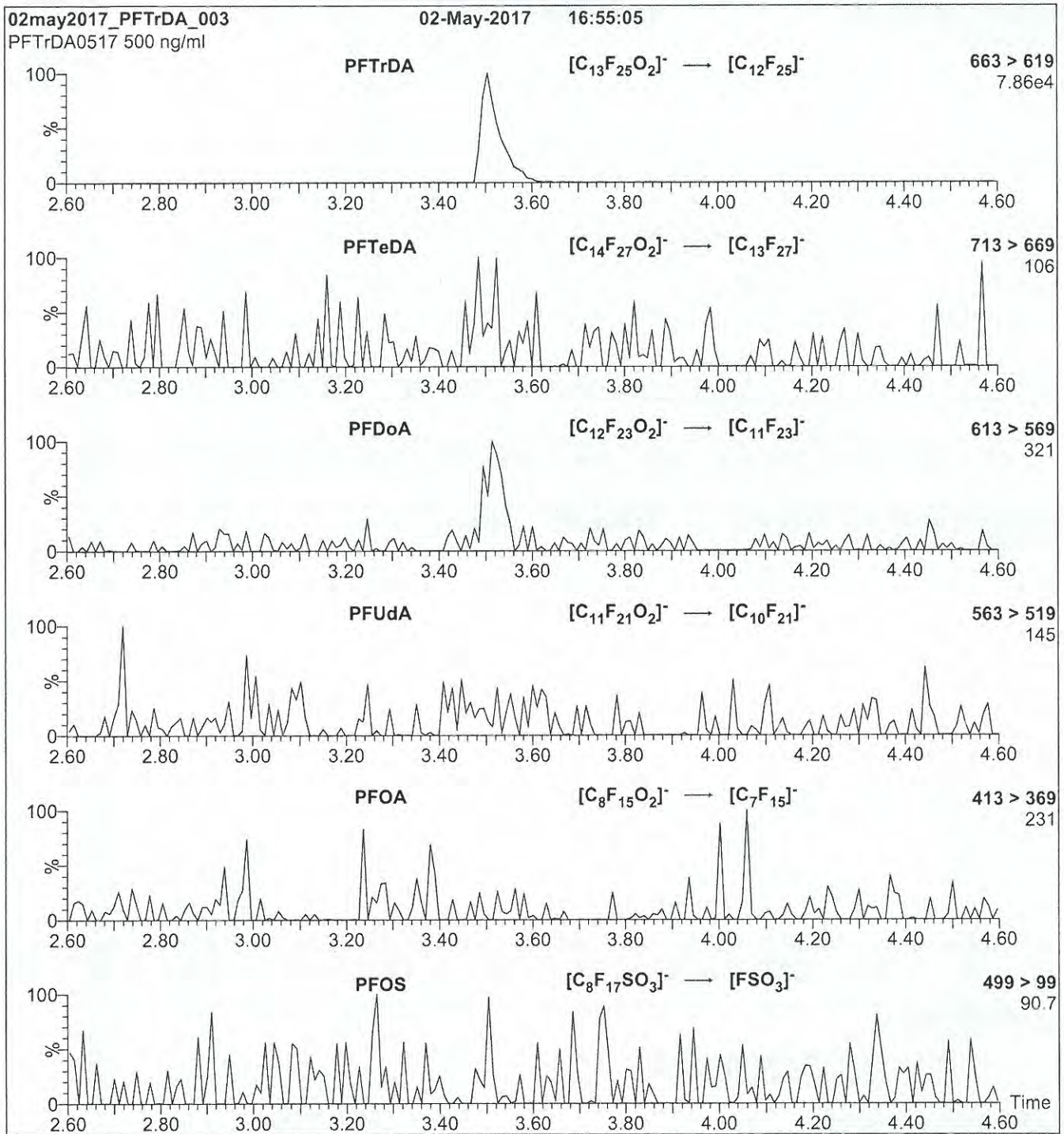
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 22.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 650

17 G1313

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFTrDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.17e-3
Collision Energy (eV) = 15

1761314



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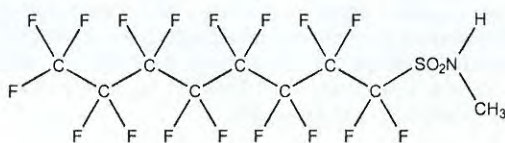
CERTIFICATE OF ANALYSIS DOCUMENTATION

2 vials

PRODUCT CODE: N-MeFOSA-M
COMPOUND: N-methylperfluoro-1-octanesulfonamide

LOT NUMBER: NMeFOSA0516M

STRUCTURE: CAS #: 31506-32-8



MOLECULAR FORMULA: C₉H₄F₁₇NO₂S
CONCENTRATION: 50 ± 2.5 µg/ml
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/24/2016
EXPIRY DATE: (mm/dd/yyyy) 05/24/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

MOLECULAR WEIGHT: 513.17
SOLVENT(S): Methanol

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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:
B.G. Chittim

Date: 05/26/2016
(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

17G1314

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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:

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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:

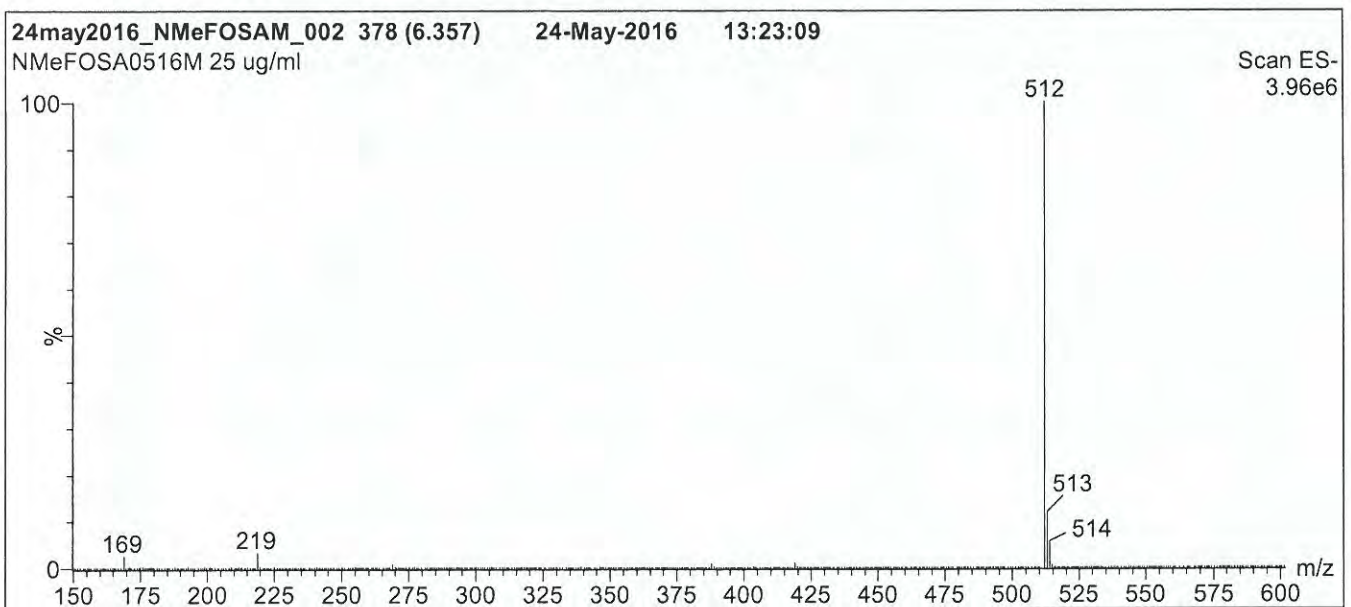
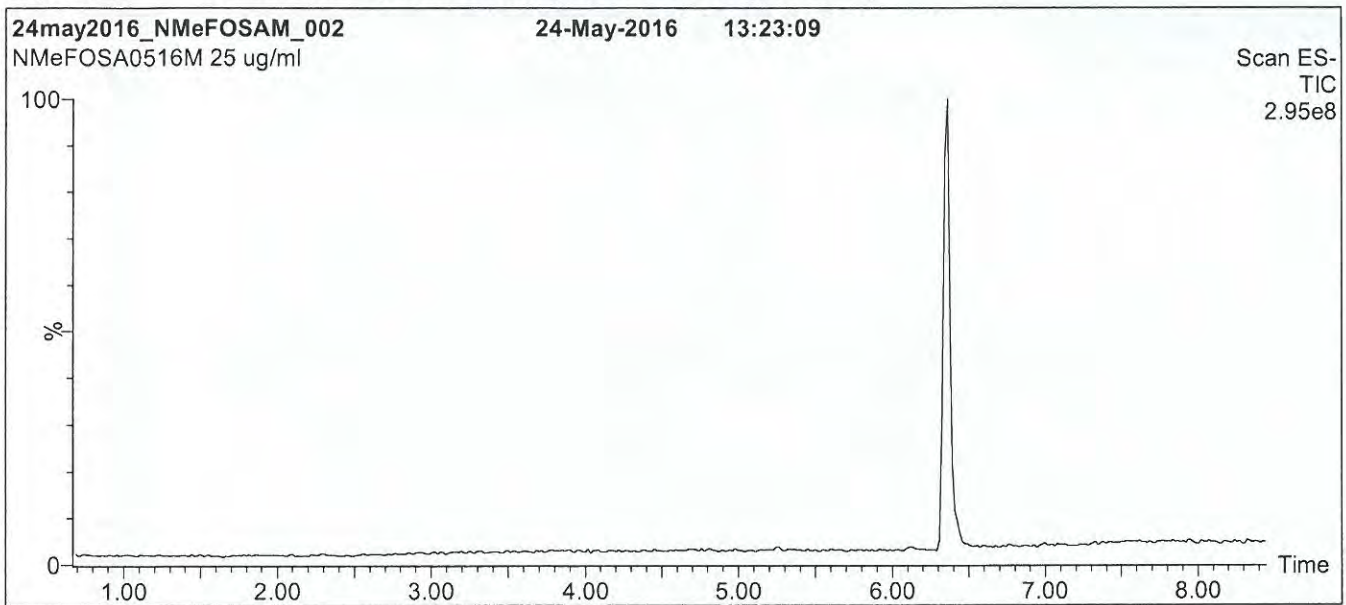
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17G1314

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



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% H₂O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

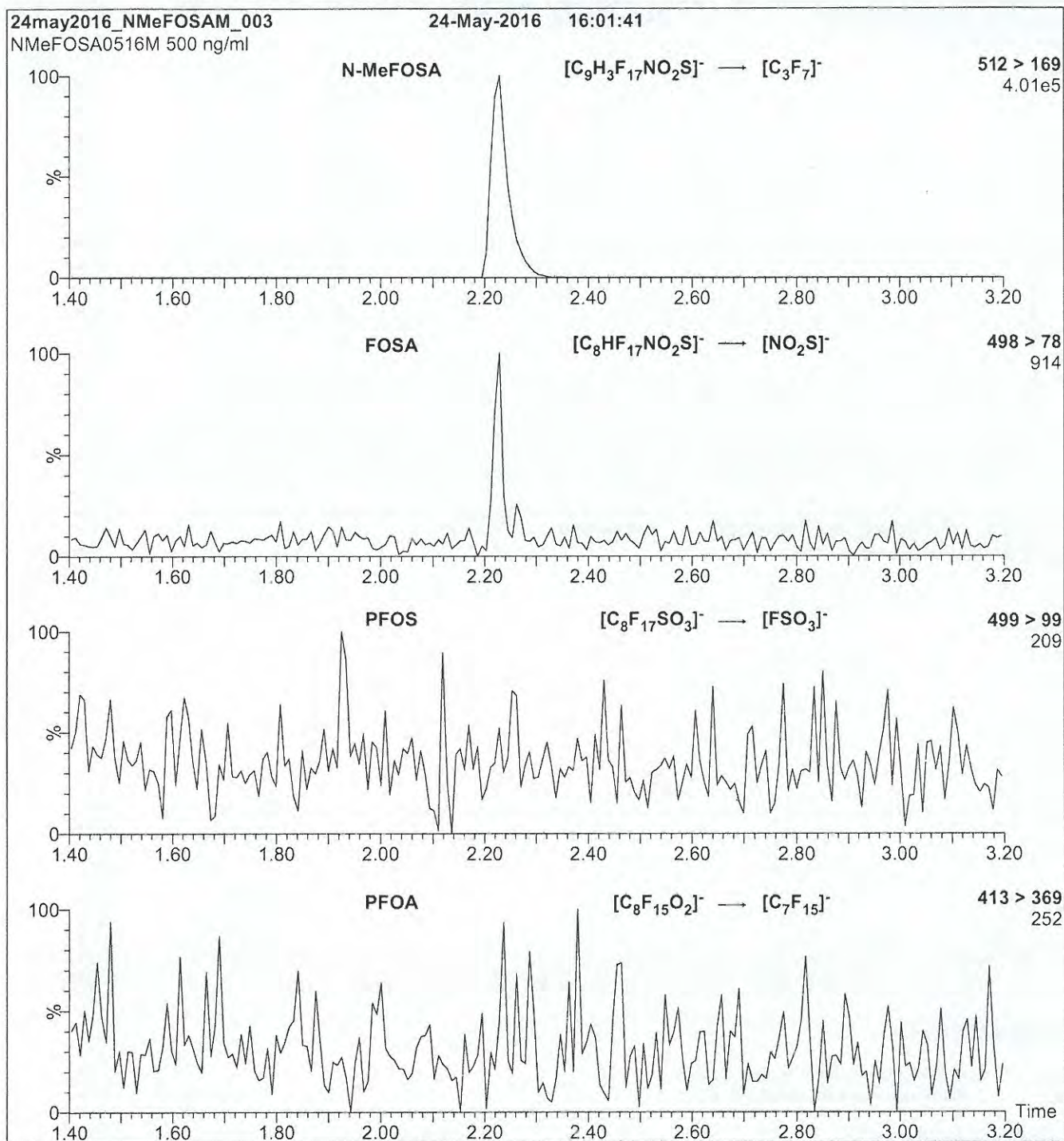
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1314

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml N-MeFOSA-M)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.54e-3
Collision Energy (eV) = 30

17G1316



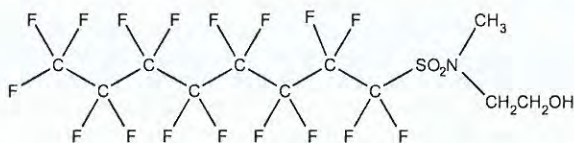
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

2 vials

PRODUCT CODE: N-MeFOSE-M LOT NUMBER: NMeFOSE0417M
COMPOUND: 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol

STRUCTURE: CAS #: 24448-09-7



MOLECULAR FORMULA: C11H8F17NO3S MOLECULAR WEIGHT: 557.22
CONCENTRATION: 50 ± 2.5 µg/ml SOLVENT(S): Methanol
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/24/2017 (HRGC/LRMS)
04/21/2017 (LC/MS)
EXPIRY DATE: (mm/dd/yyyy) 04/24/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: HRGC/LRMS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (TIC 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.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: [Signature] Date: 05/05/2017
B.G. Chittim, General Manager (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

17G1316

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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:

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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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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.

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

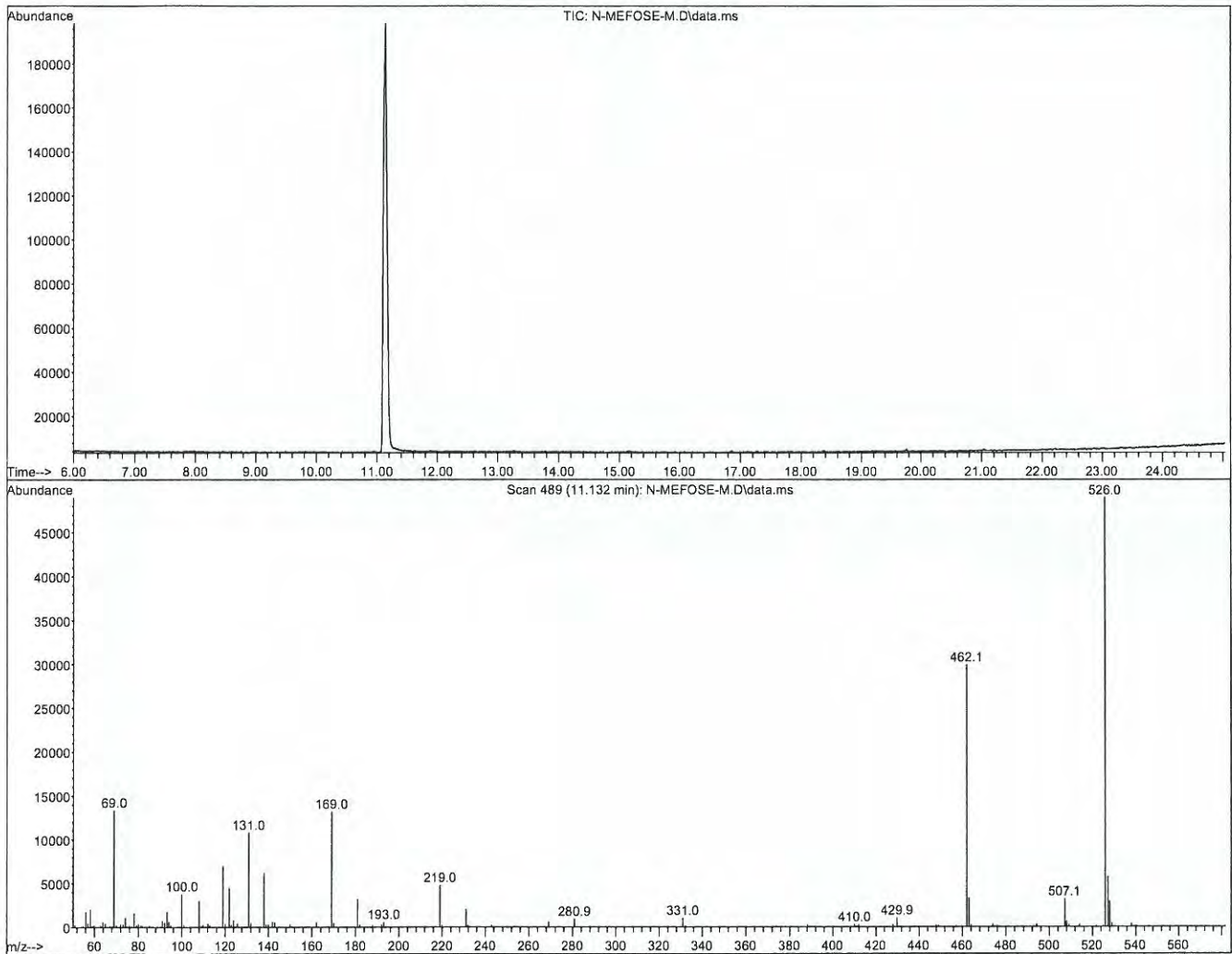
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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1761316

Figure 1: N-MeFOSE-M; HRGC/LRMS Data (TIC and Mass Spectrum)



HRGC/LRMS:

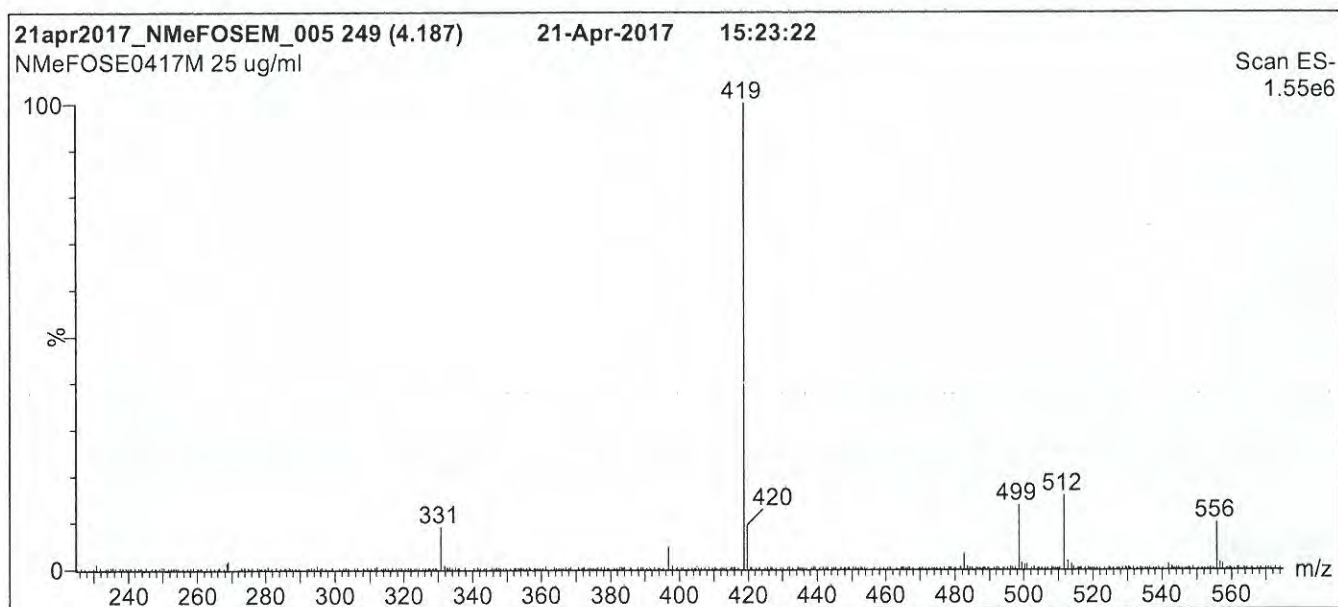
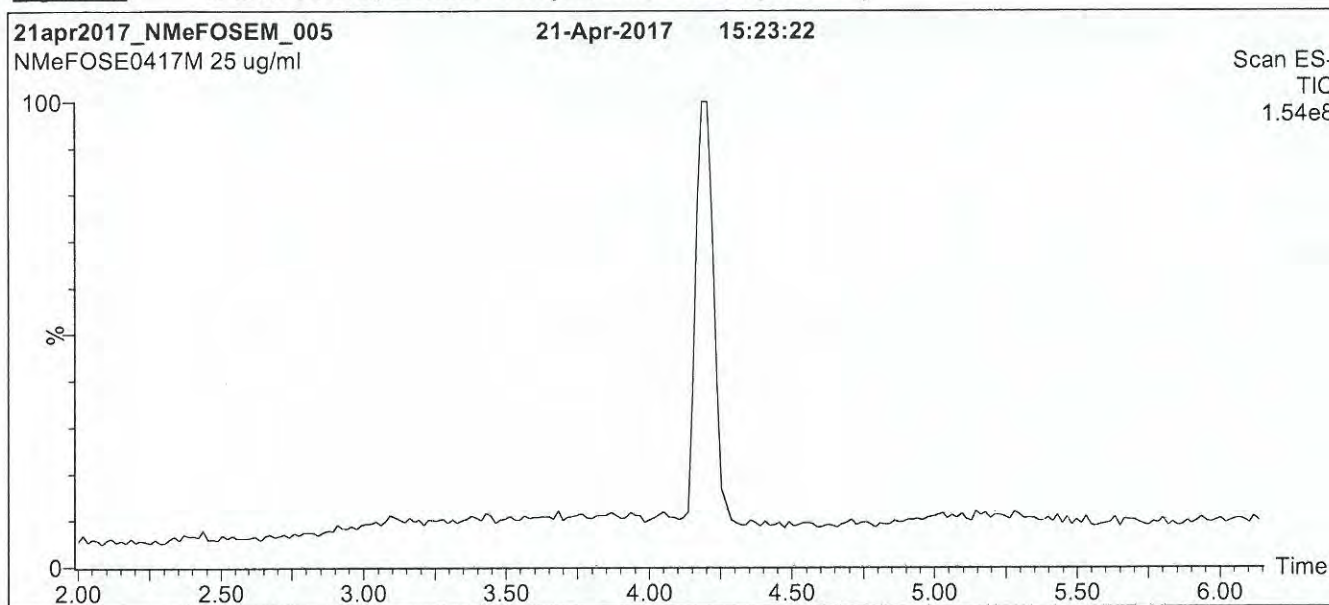
Agilent 7890A (HRGC)
Agilent 5975C (LRMS)

Chromatographic Conditions:

Column: 30 m DB-5 (0.25 mm id, 0.25 μ m film thickness) Agilent J&W
Injector: 250 $^{\circ}$ C (Splitless Injection)
Oven: 100 $^{\circ}$ C (5 min)
10 $^{\circ}$ C/min to 325 $^{\circ}$ C
325 $^{\circ}$ C (20 min)
Ionization: EI+
Detector: 250 $^{\circ}$ C
Full Scan (50-1000 amu)

17G1316

Figure 2: N-MeFOSE-M; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% MeOH / 40% H₂O
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

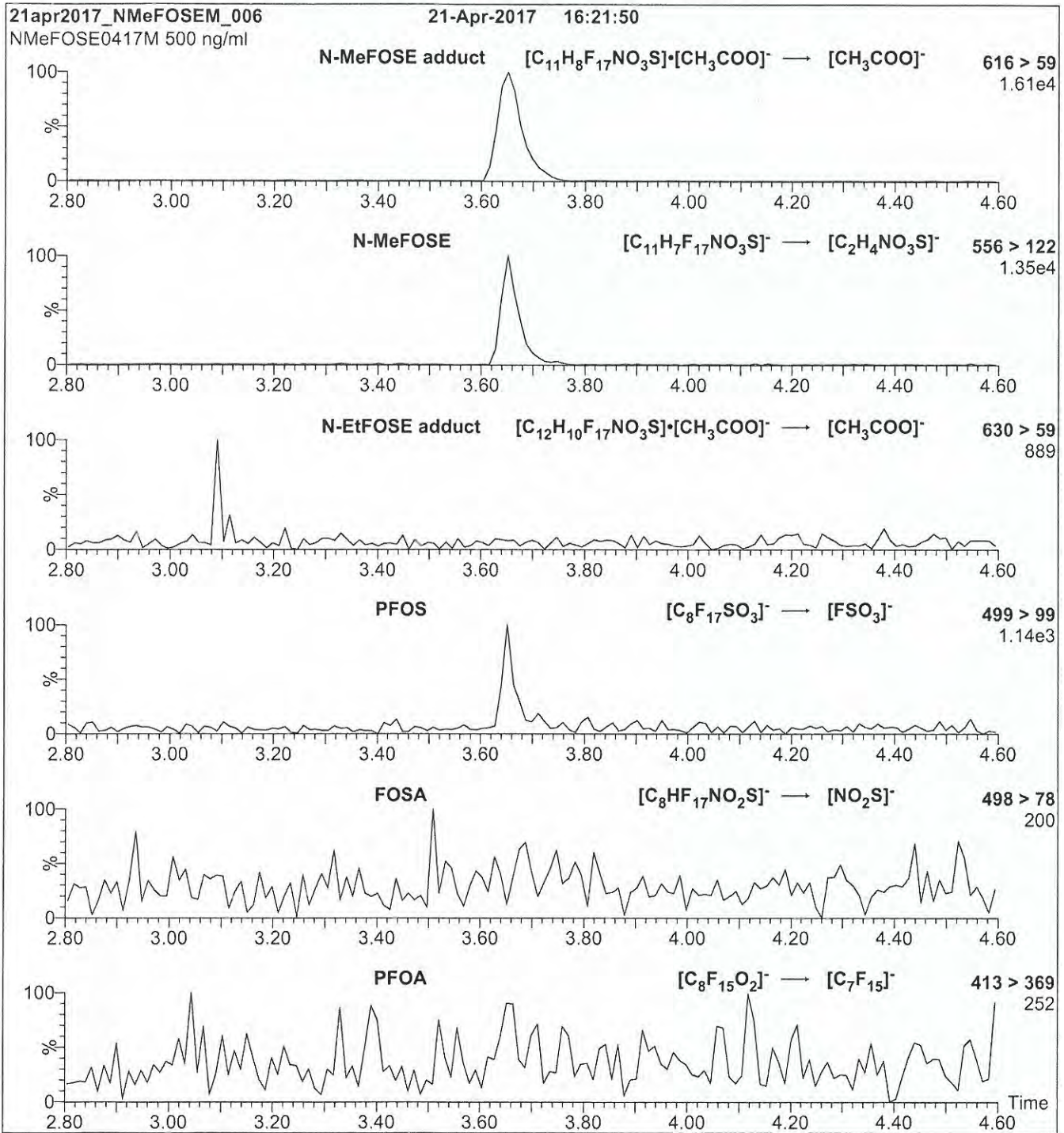
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17 G1316

Figure 3: N-MeFOSE-M; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: Direct loop injection
10 μ l (500 ng/ml N-MeFOSE-M)

Mobile phase: Isocratic 80% MeOH / 20% H₂O

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 35

17-01316

REPORT OF COMPARISONS (Related Form Transmittal)

Property Address	APN	Assessed Value	Market Value	Ratio
1000 1st St, San Francisco, CA 94103	012-345678	1,200,000	1,500,000	0.80
2000 2nd St, San Francisco, CA 94103	012-345679	1,500,000	1,800,000	0.83
3000 3rd St, San Francisco, CA 94103	012-345680	1,800,000	2,200,000	0.82
4000 4th St, San Francisco, CA 94103	012-345681	2,100,000	2,600,000	0.81
5000 5th St, San Francisco, CA 94103	012-345682	2,400,000	3,000,000	0.80
6000 6th St, San Francisco, CA 94103	012-345683	2,700,000	3,400,000	0.79
7000 7th St, San Francisco, CA 94103	012-345684	3,000,000	3,800,000	0.79
8000 8th St, San Francisco, CA 94103	012-345685	3,300,000	4,200,000	0.79
9000 9th St, San Francisco, CA 94103	012-345686	3,600,000	4,600,000	0.78
10000 10th St, San Francisco, CA 94103	012-345687	3,900,000	5,000,000	0.78

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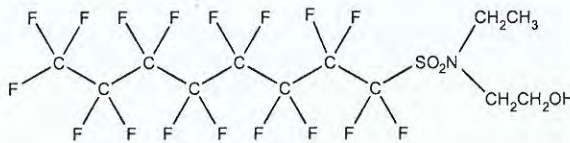

WELLINGTON
 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION

2 vials

PRODUCT CODE: N-EtFOSE-M ✓ **LOT NUMBER:** NEtFOSE0417M ✓
COMPOUND: 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol

STRUCTURE: **CAS #:** 1691-99-2



MOLECULAR FORMULA: C₁₂H₁₀F₁₇NO₃S **MOLECULAR WEIGHT:** 571.25
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/24/2017 (HRGC/LRMS)
 04/21/2017 (LC/MS)
EXPIRY DATE: (mm/dd/yyyy) 04/24/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: HRGC/LRMS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS Data (TIC 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.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager

Date: 04/26/2017
 (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

17G1317

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

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QUALITY MANAGEMENT:

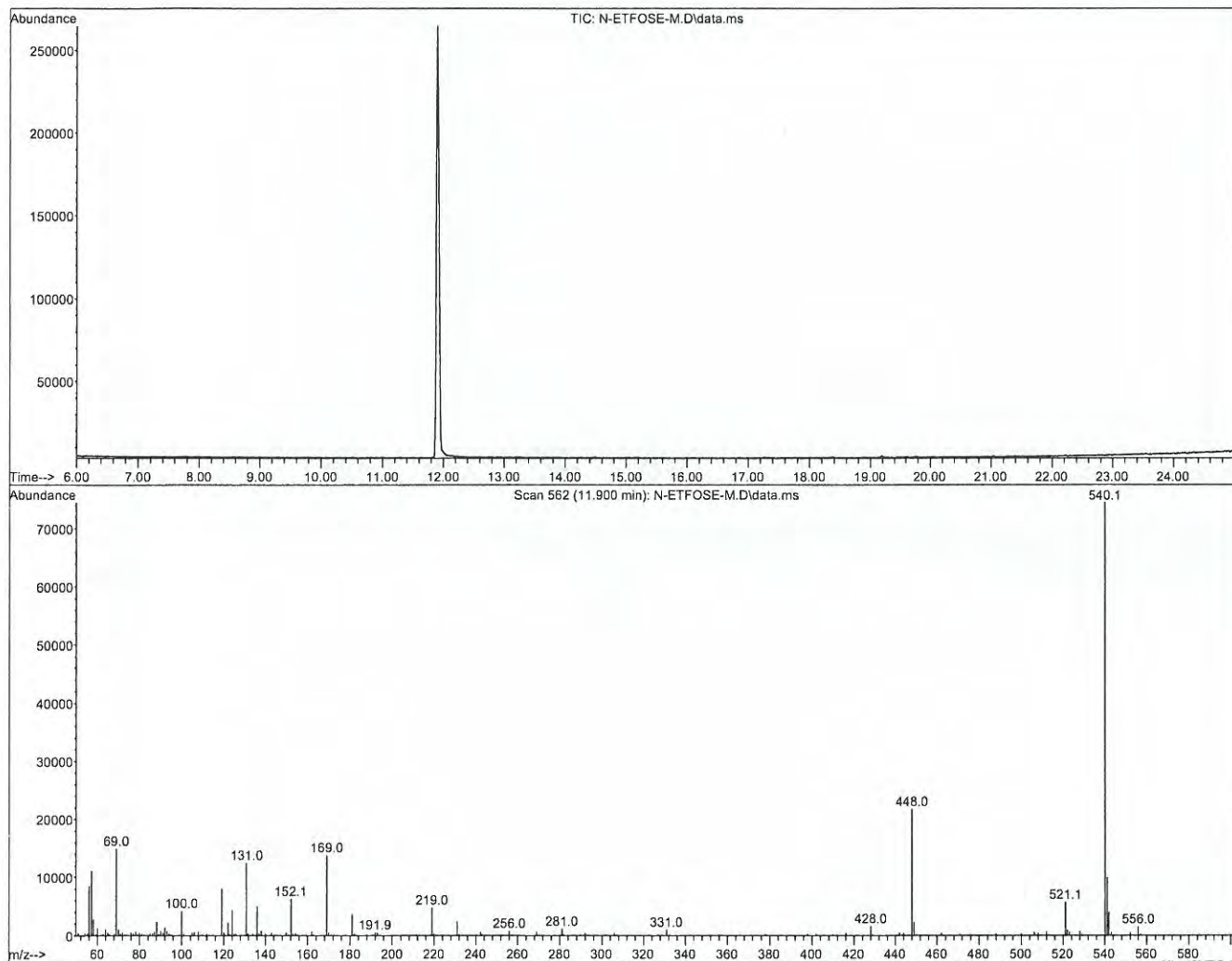
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17 G1317

Figure 1: N-EtFOSE-M; HRGC/LRMS Data (TIC and Mass Spectrum)



HRGC/LRMS:

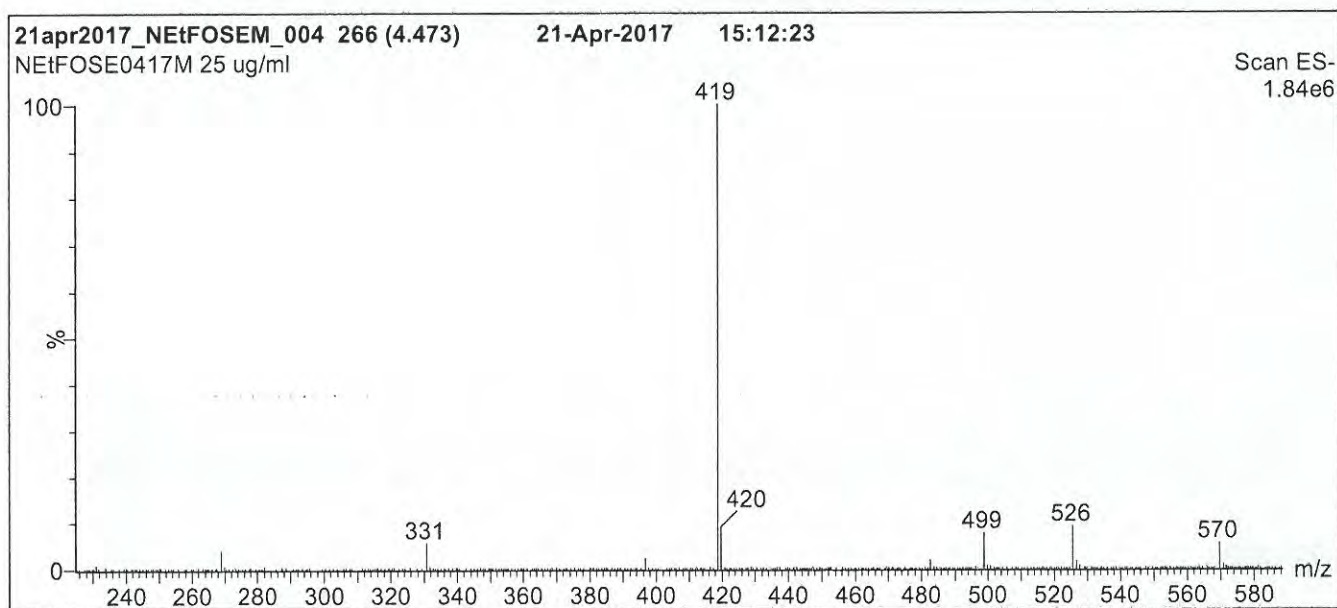
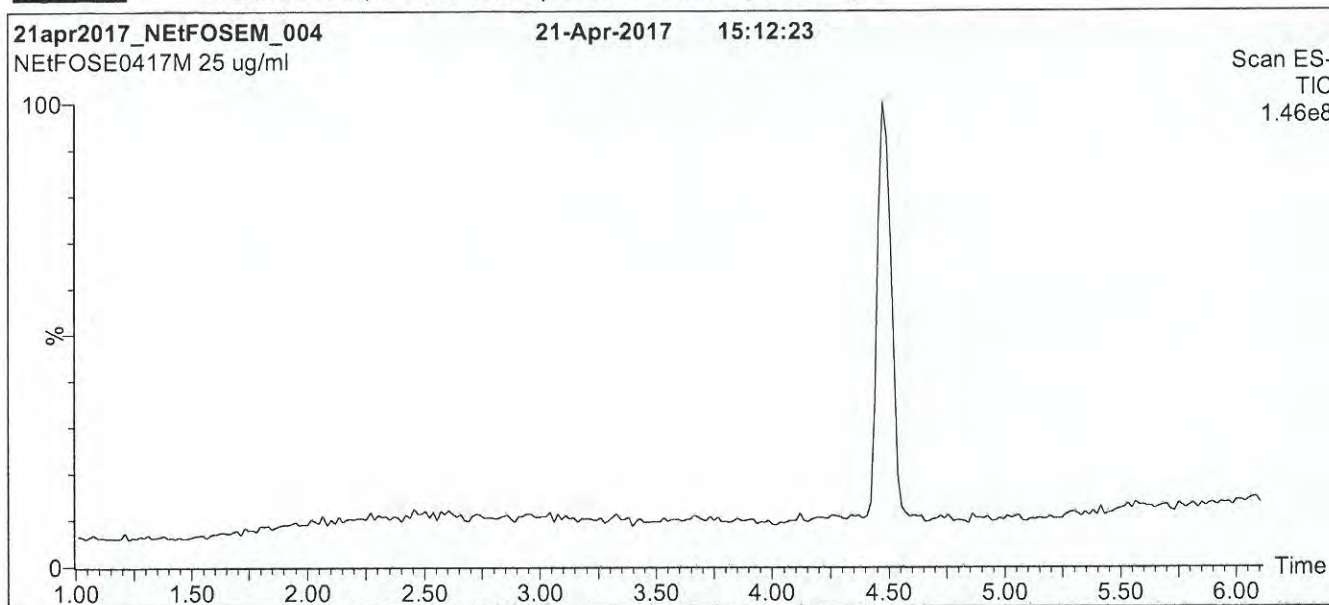
Agilent 7890A (HRGC)
Agilent 5975C (LRMS)

Chromatographic Conditions:

Column: 30 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W
Injector: 250 °C (Splitless Injection)
Oven: 100 °C (5 min)
10 °C/min to 325 °C
325 °C (20 min)
Ionization: EI+
Detector: 250 °C
Full Scan (50-1000 amu)

17G1317

Figure 2: N-EtFOSE-M; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% MeOH / 40% H₂O
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

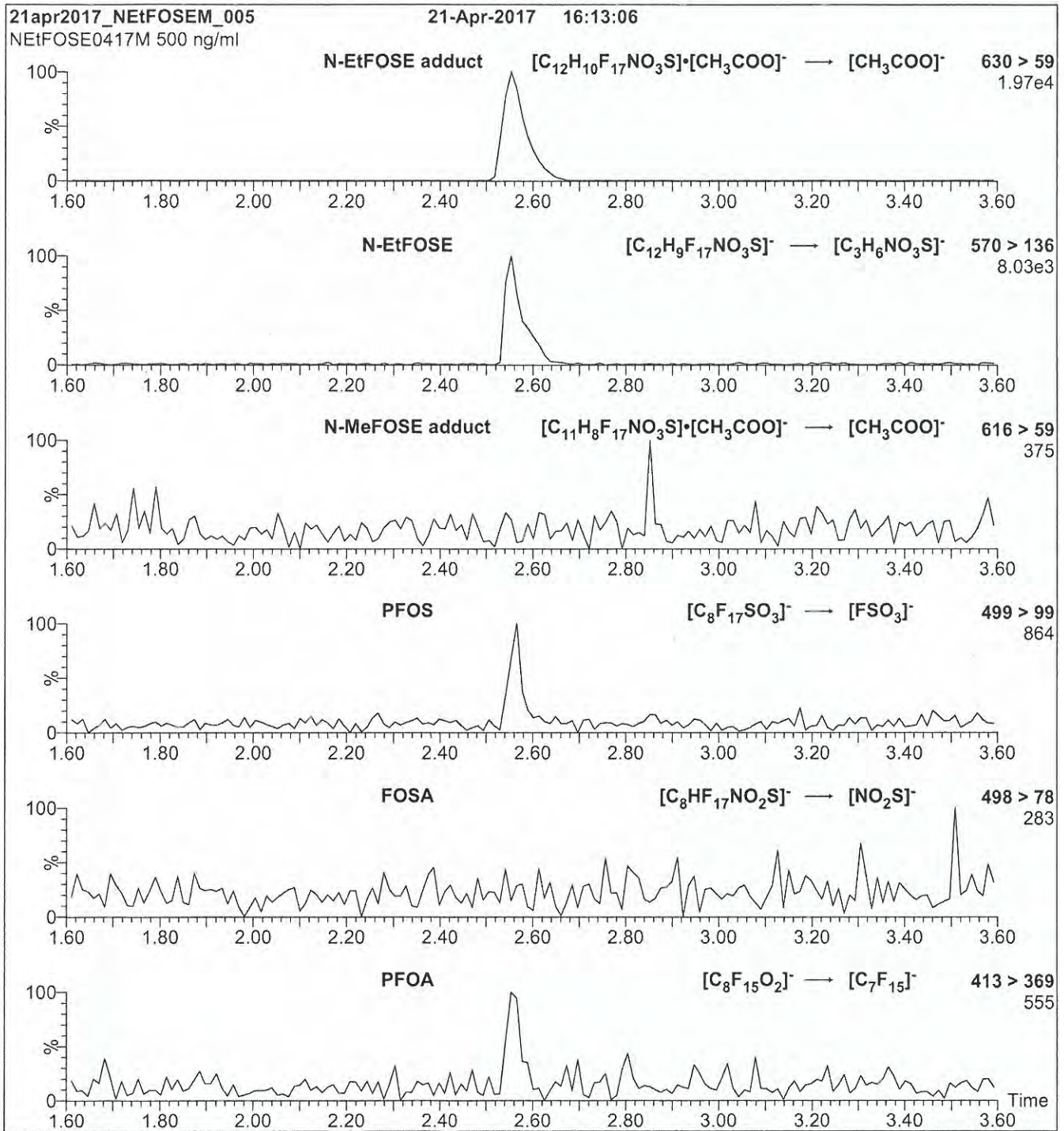
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1317

Figure 3: N-EtFOSE-M; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: Direct loop injection
10 μ l (500 ng/ml N-EtFOSE-M)

Mobile phase: Isocratic 80% MeOH / 20% H₂O

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 33

FIELD

LABORATORY (CLASSIFICATION) (REVISION) (DATE)

NO.	DESCRIPTION	DATE	TIME	LOCATION	STATUS	REMARKS
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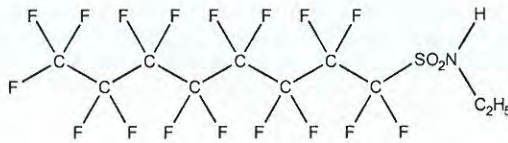
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: N-EtFOSA-M
COMPOUND: N-ethylperfluoro-1-octanesulfonamide

LOT NUMBER: NEtFOSA0516M

STRUCTURE:

CAS #: 4151-50-2



MOLECULAR FORMULA: C₁₀H₆F₁₇NO₂S
CONCENTRATION: 50 ± 2.5 µg/ml
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/24/2016
EXPIRY DATE: (mm/dd/yyyy) 05/24/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

MOLECULAR WEIGHT: 527.20
SOLVENT(S): Methanol

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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: B.G. Chittim

Date: 05/27/2016 (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

17G1320

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

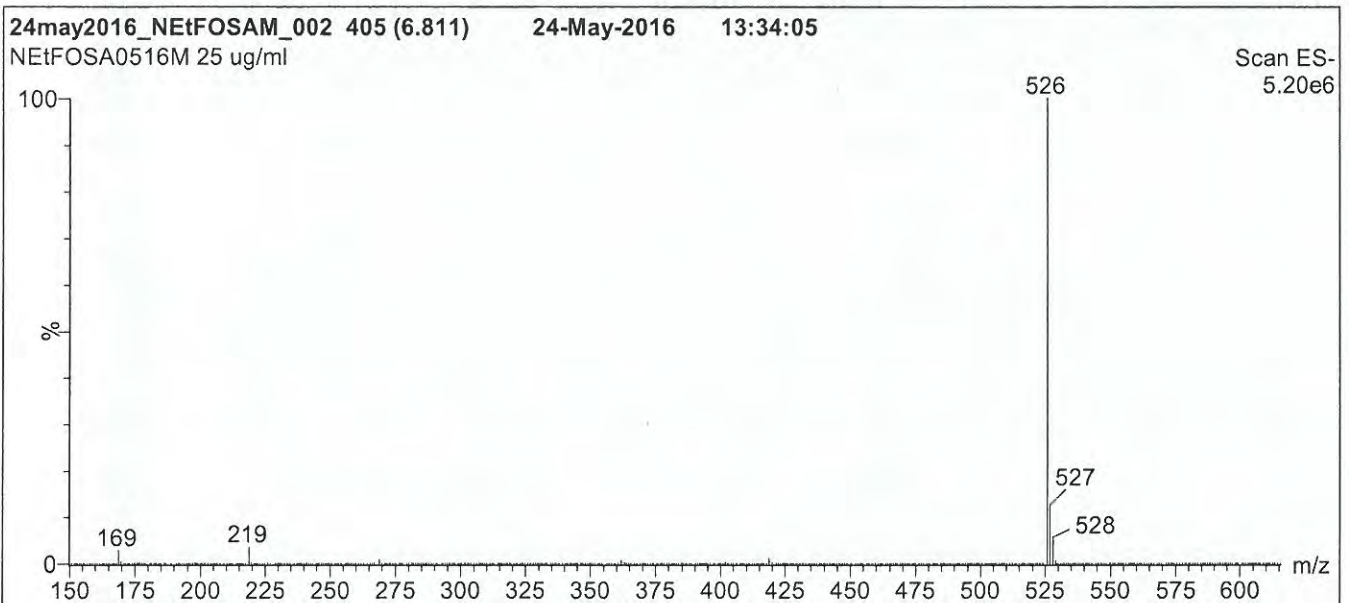
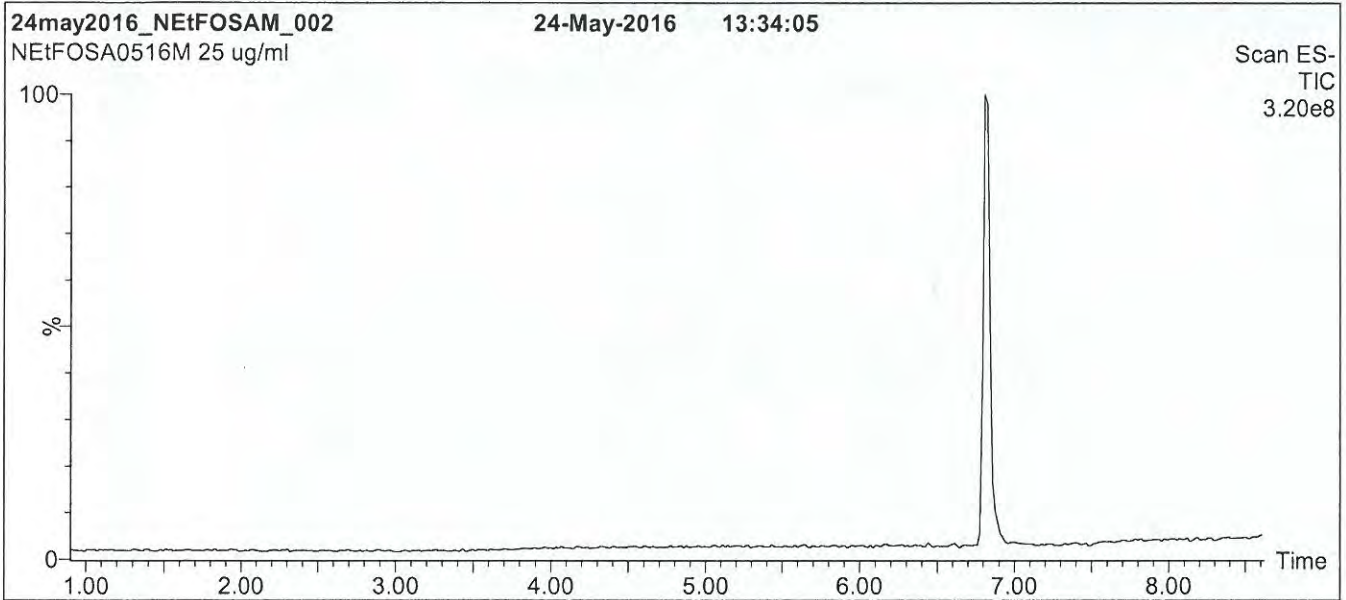
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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

17G1320

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



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% H₂O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

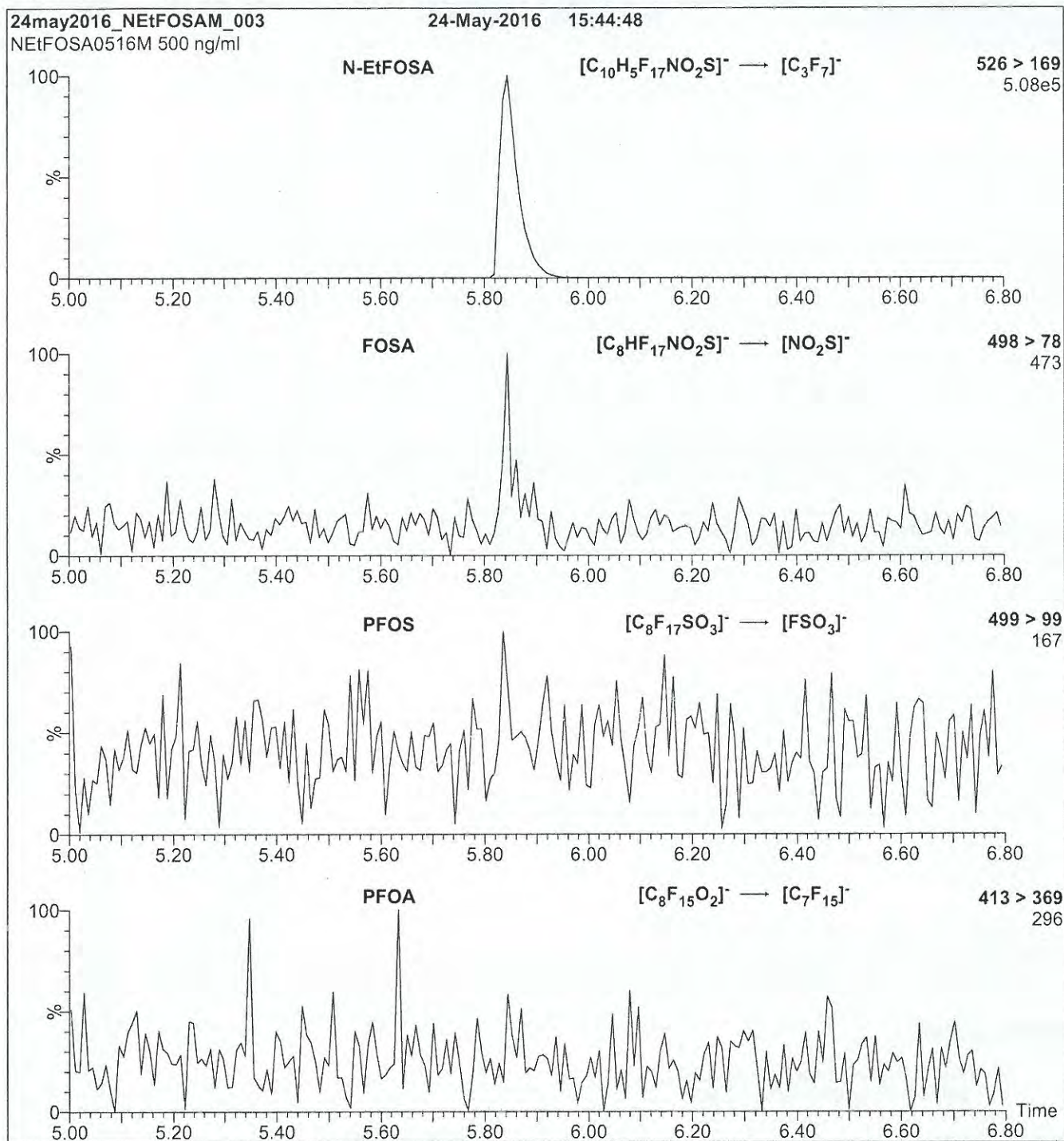
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1320

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml N-EtFOSA-M)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.54e-3
Collision Energy (eV) = 30

17G 13 23



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

br-PFHxSK

**Potassium Perfluorohexanesulfonate
Solution/Mixture of Linear and
Branched Isomers**

PRODUCT CODE: br-PFHxSK ✓
LOT NUMBER: brPFHxSK0117 ✓
CONCENTRATION: 50.0 ± 2.5 µg/ml (total potassium salt)
45.5 ± 2.3 µg/ml (total PFHxS anion)
SOLVENT(S): Methanol
DATE PREPARED: (mm/dd/yyyy) 01/03/2017
LAST TESTED: (mm/dd/yyyy) 01/04/2017
EXPIRY DATE: (mm/dd/yyyy) 01/04/2022
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 ¹⁹F-NMR
Figure 1: LC/MS Data (TIC 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.
- Contains ~ 0.5% of perfluoro-1-pentanesulfonate and ~ 0.2% of perfluoro-1-octanesulfonate.
- CAS#: 3871-99-6 (for linear isomer; potassium salt).

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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 compounds it contains.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



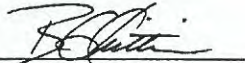
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17G1323

Table A: br-PFHxSK; Isomeric Components and Percent Composition (by ¹⁹F-NMR)*

Isomer	Name	Structure	Percent Composition by ¹⁹ F-NMR
1	Potassium perfluoro-1-hexanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺	81.1
2	Potassium 1-trifluoromethylperfluoropentanesulfonate**	CF ₃ CF ₂ CF ₂ CF ₂ CF(SO ₃ ⁻)K ⁺ CF ₃	2.9
3	Potassium 2-trifluoromethylperfluoropentanesulfonate	CF ₃ CF ₂ CF ₂ CF(CF ₃)SO ₃ ⁻ K ⁺ CF ₃	1.4
4	Potassium 3-trifluoromethylperfluoropentanesulfonate	CF ₃ CF ₂ CF(CF ₃)CF ₂ SO ₃ ⁻ K ⁺ CF ₃	5.0
5	Potassium 4-trifluoromethylperfluoropentanesulfonate	CF ₃ CF(CF ₃)CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	8.9
6	Potassium 3,3-di(trifluoromethyl)perfluorobutanesulfonate	CF ₃ CF ₃ CCF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	0.2
7	Other Unidentified Isomers		0.5

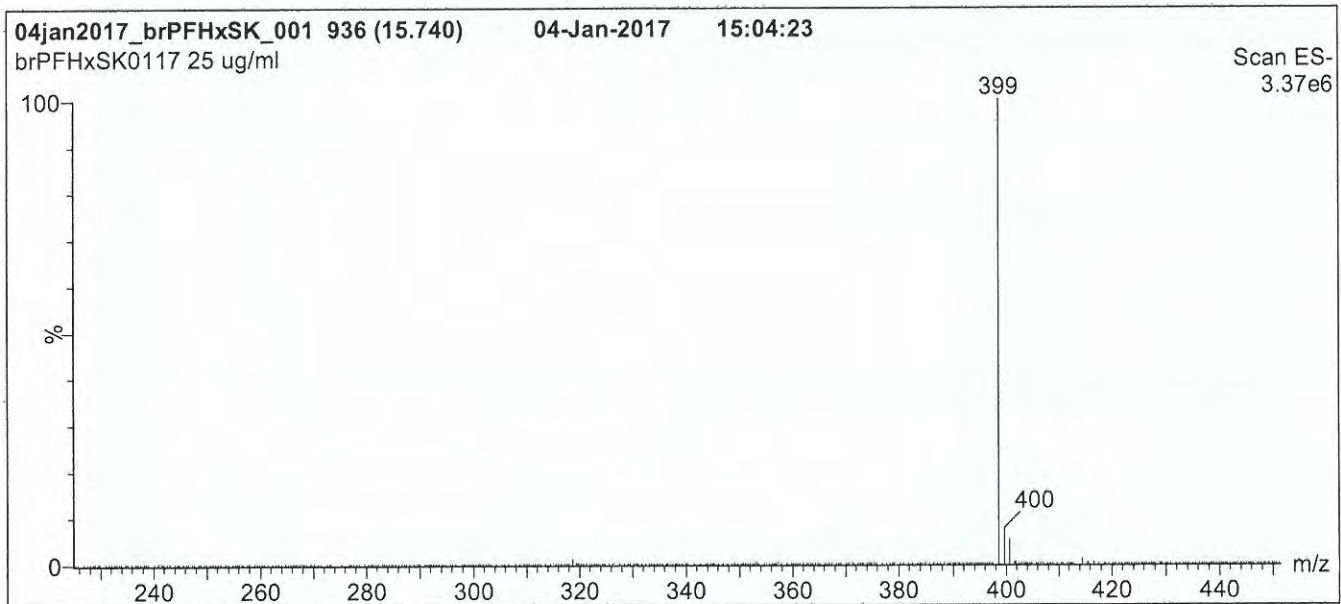
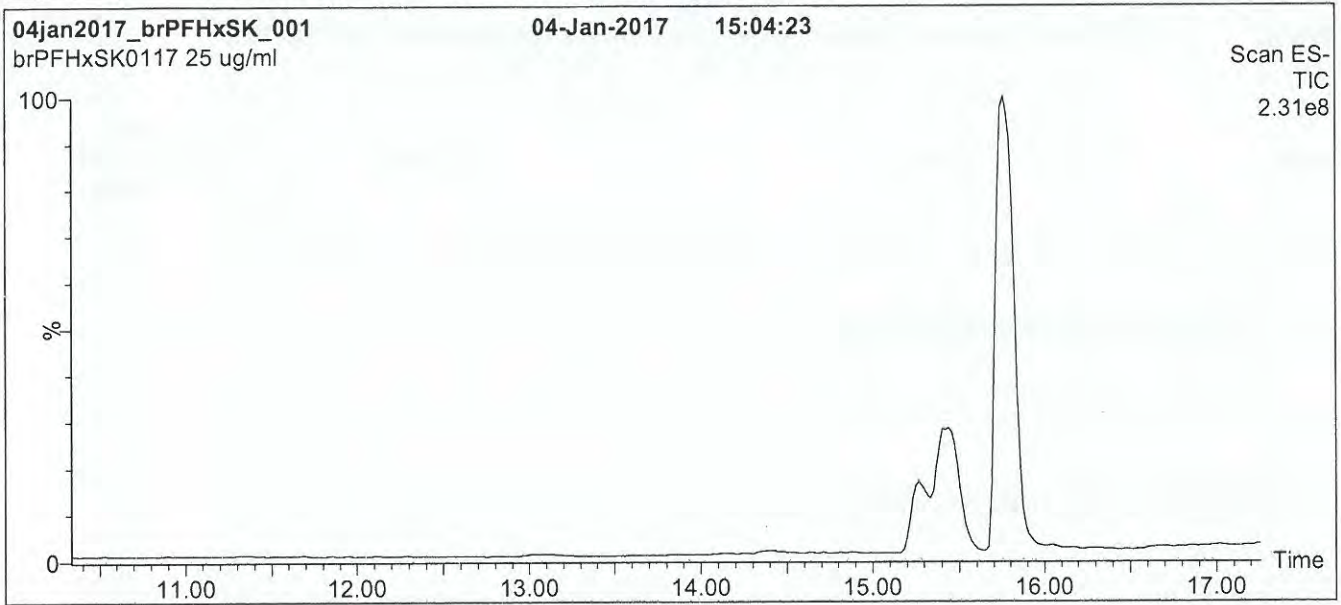
* Percent of total perfluorohexanesulfonate isomers only.
 ** Systematic Name: Potassium perfluorohexane-2-sulfonate.

Certified By: 
 B.G. Chittim

Date: 01/20/2017
 (mm/dd/yyyy)

17G1323

Figure 1: br-PFHxSK; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 20% (80:20 MeOH:ACN) / 80% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 50% organic over 14 min. Ramp to
90% organic over 3 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 20 min

Flow: 300 μ l/min

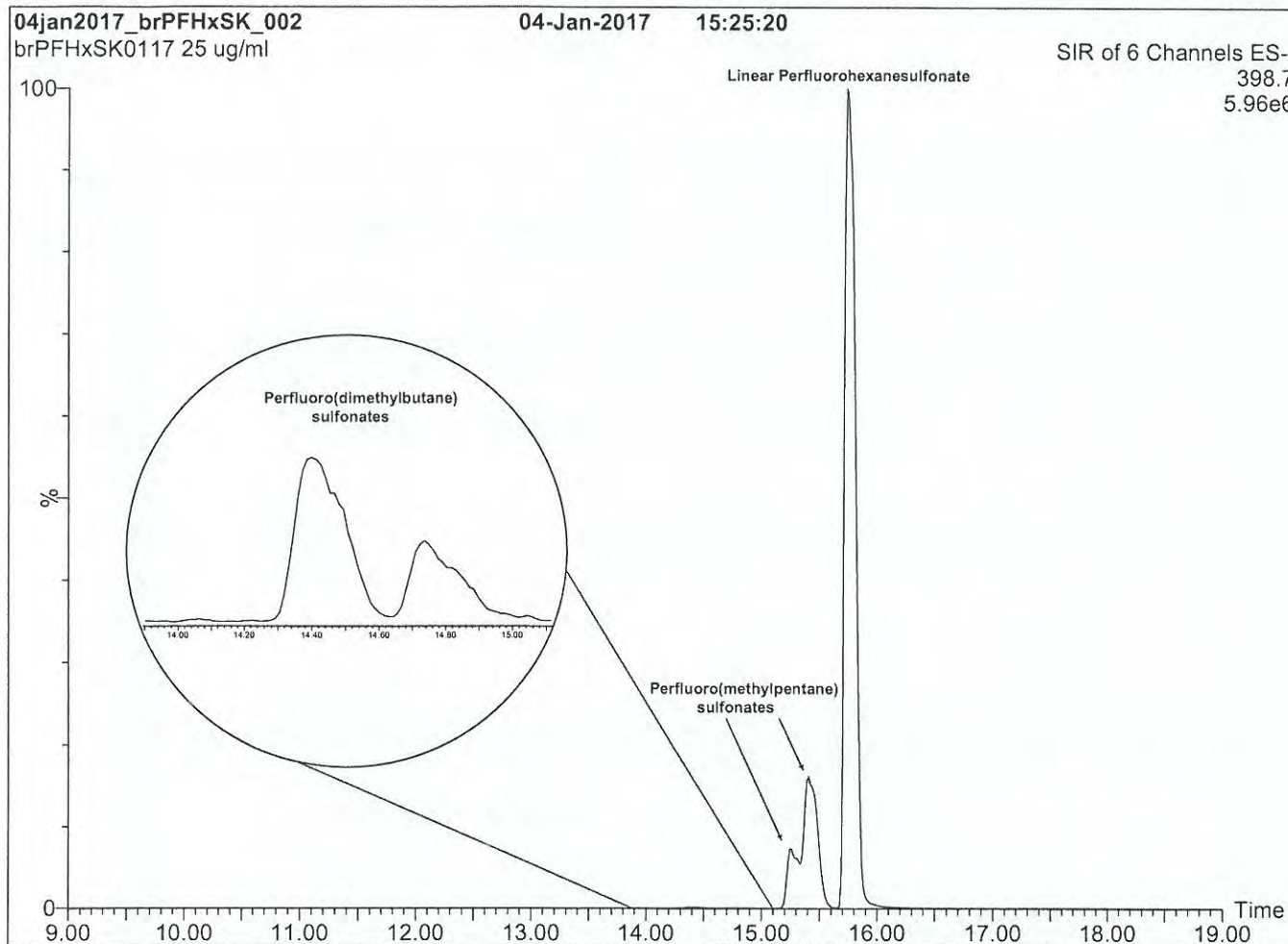
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 50.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17G1323

Figure 2: br-PFHxSK; LC/MS Data (SIR)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 20% (80:20 MeOH:ACN) / 80% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 50% organic over 14 min. Ramp to
90% organic over 3 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 20 min

Flow: 300 μ l/min

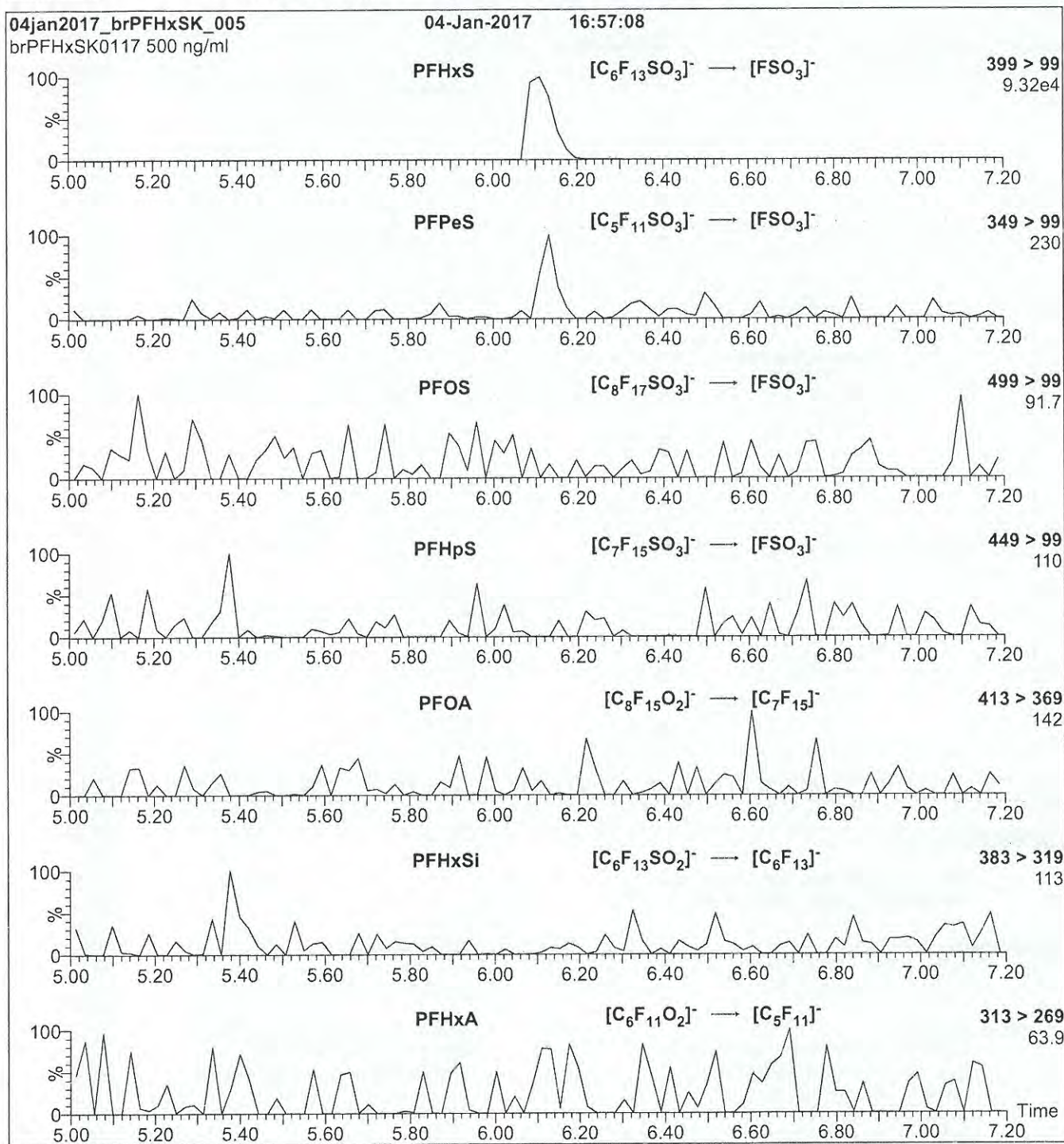
MS Parameters

Experiment: SIR (6 channels)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = variable (15-62)
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

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Figure 3: br-PFHxSK; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: Direct loop injection
10 μ l (500 ng/ml br-PFHxSK)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 30

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CERTIFICATE OF ANALYSIS
DOCUMENTATION

br-PFOSK

**Potassium Perfluorooctanesulfonate
Solution/Mixture of Linear and
Branched Isomers**

PRODUCT CODE: br-PFOSK ✓
LOT NUMBER: brPFOSK0117 ✓
CONCENTRATION: 50 ± 2.5 µg/ml (total potassium salt)
46.4 ± 2.3 µg/ml (total PFOS anion)
SOLVENT(S): Methanol
DATE PREPARED: (mm/dd/yyyy) 01/09/2017
LAST TESTED: (mm/dd/yyyy) 01/12/2017
EXPIRY DATE: (mm/dd/yyyy) 01/12/2022
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 ¹⁹F-NMR
Figure 1: LC/MS Data (TIC 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.
- CAS#: 2795-39-3 (for linear isomer; potassium salt).

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INTENDED USE:

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HAZARDS:

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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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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:

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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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17G1324

Table A: br-PFOSK; Isomeric Components and Percent Composition (by ¹⁹F-NMR)*

Isomer	Name	Structure	Percent Composition by ¹⁹ F-NMR
1	Potassium perfluoro-1-octanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺	78.8
2	Potassium 1-trifluoromethylperfluoroheptanesulfonate**	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	1.2
3	Potassium 2-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	0.6
4	Potassium 3-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	1.9
5	Potassium 4-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	2.2
6	Potassium 5-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	4.5
7	Potassium 6-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	10.0
8	Potassium 5,5-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ CF ₃ CCF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	0.2
9	Potassium 4,4-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ CF ₃ CF ₂ CCF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	0.03
10	Potassium 4,5-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	0.4
11	Potassium 3,5-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	0.07

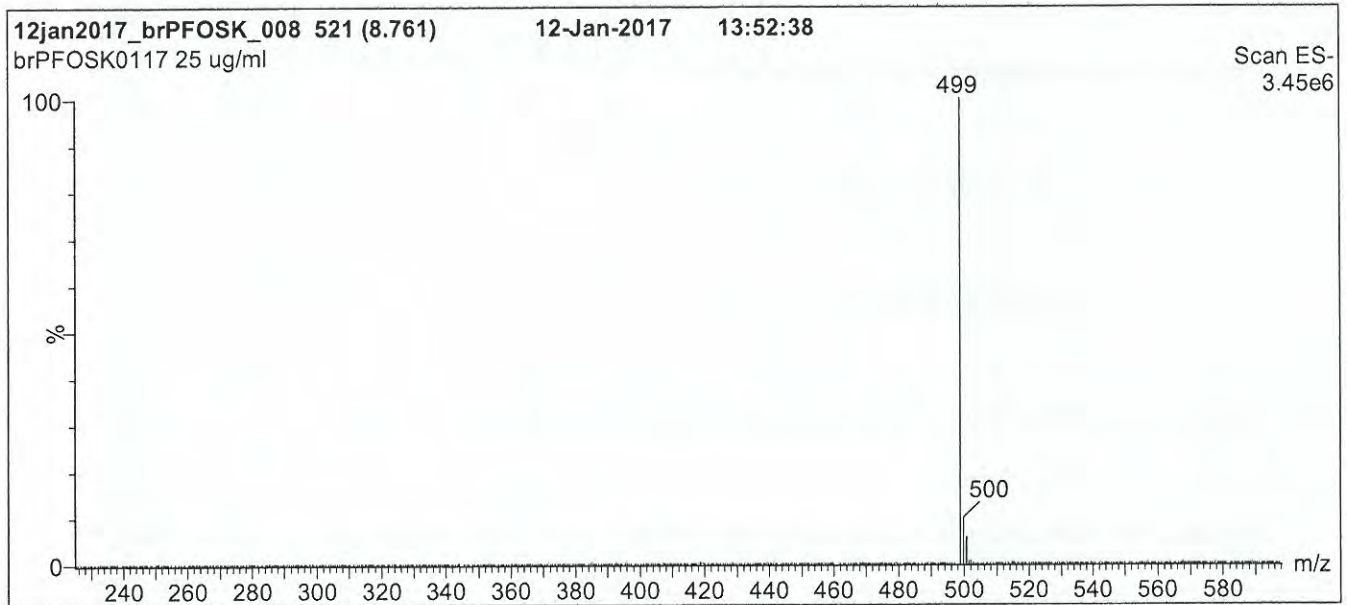
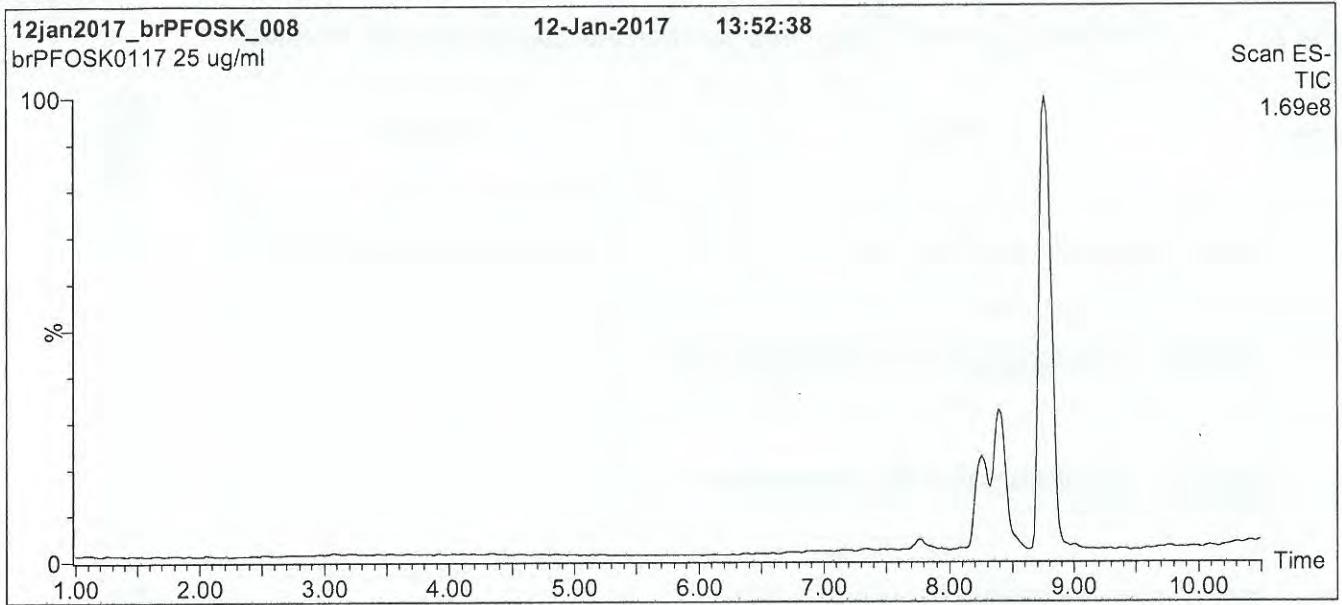
* Percent of total perfluorooctanesulfonate isomers only. Isomers are labelled in Figure 2.
 ** Systematic Name: Potassium perfluorooctane-2-sulfonate.

Certified By: 
 B.G. Chittim

Date: 01/20/2017
(mm/dd/yyyy)

17.G1324

Figure 1: br-PFOSK; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% (80:20 MeOH:ACN) / 55% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 12 min and hold for 2 min.
Return to initial conditions over 0.5 min.
Time: 16 min

Flow: 300 μ l/min

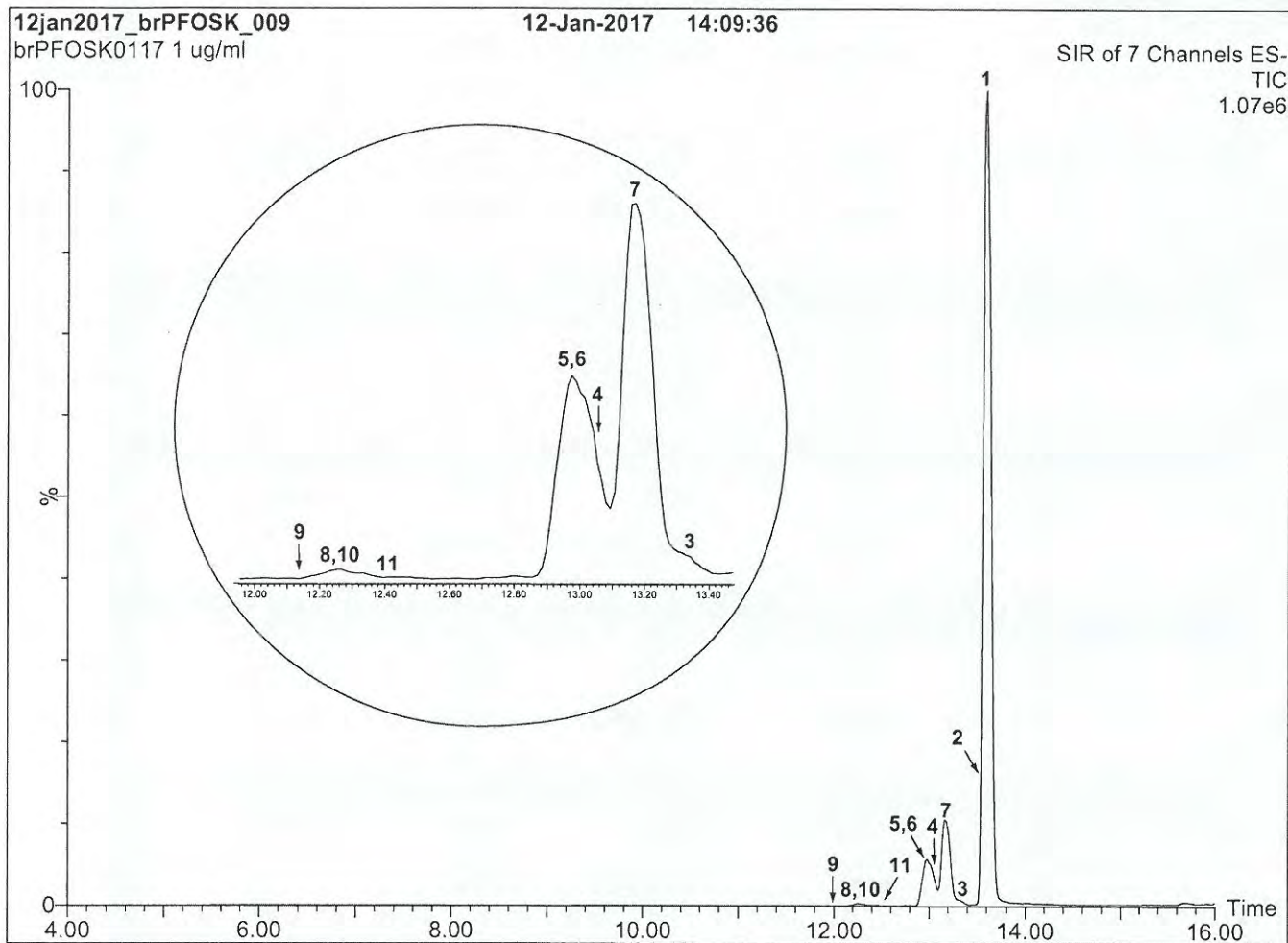
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17 G1324

Figure 2: br-PFOSK; LC/MS Data (SIR)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions:

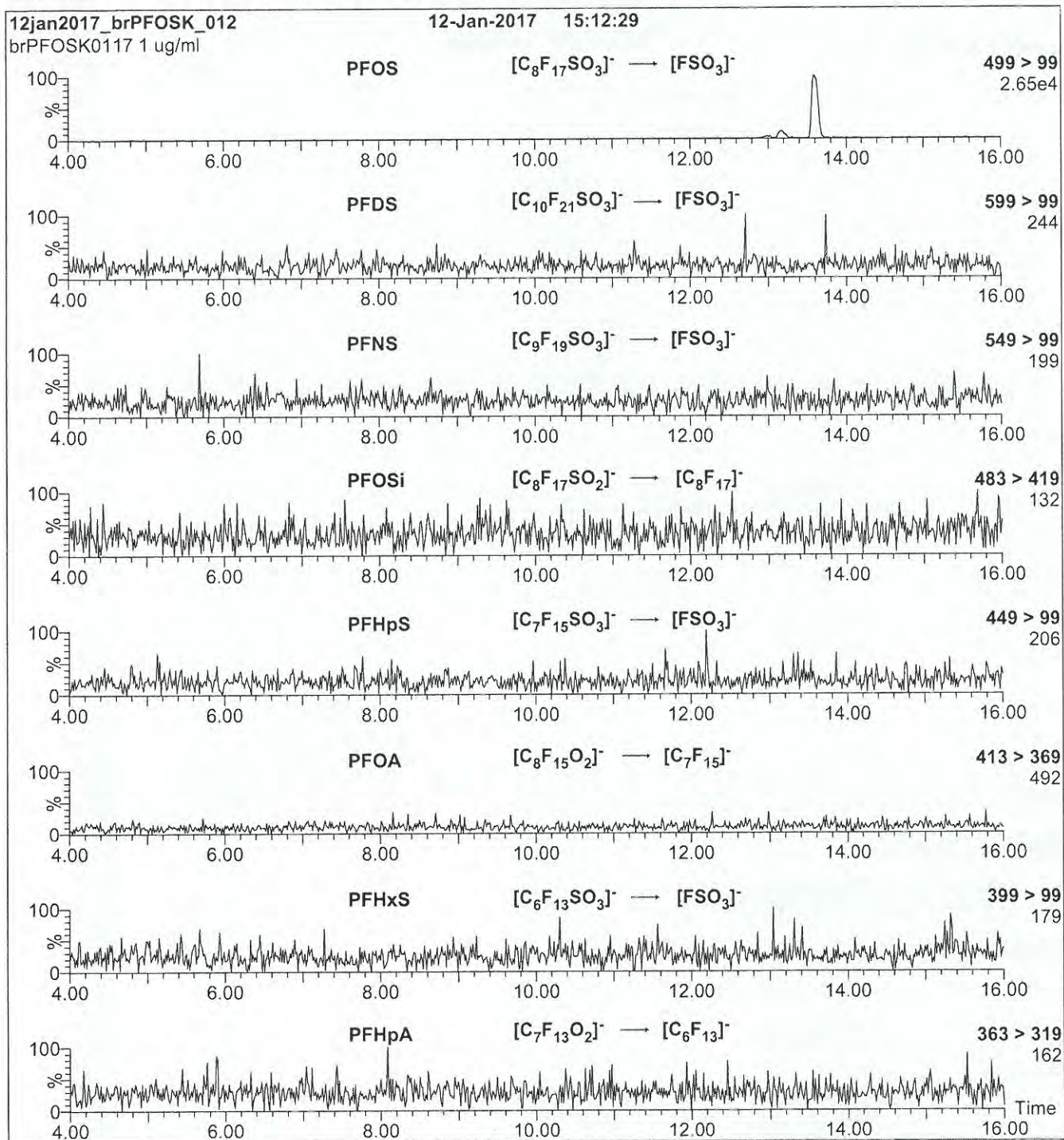
Column: Acquity UPLC BEH Shield RP₁₈ (1.7 μ m, 2.1 x 100 mm)
Injection: 1.0 μ g/ml of br-PFOSK
Mobile Phase: Gradient
45% (80:20 MeOH:ACN) / 55% H₂O (both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 15 min and hold for 3 min.
Return to initial conditions over 1 min.
Time: 20 min
Flow: 300 μ l/min

MS Conditions:

SIR (ES)
Source = 110 $^{\circ}$ C
Desolvation = 325 $^{\circ}$ C
Cone Voltage = 60V

17 G1324

Figure 3: br-PFOSK; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: On-column

Mobile phase: Same as Figure 2

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.31e-3

Collision Energy (eV) = 11-50 (variable)

17G1325



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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

L-PFDS

LOT NUMBER:

LPFDS0217

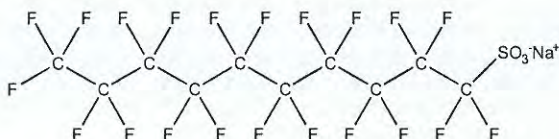
COMPOUND:

Sodium perfluoro-1-decanesulfonate

STRUCTURE:

CAS #:

2806-15-7



MOLECULAR FORMULA:

C₁₀F₂₁SO₃Na

MOLECULAR WEIGHT:

622.13

CONCENTRATION:

50.0 ± 2.5 µg/ml (Na salt)
48.2 ± 2.4 µg/ml (PFDS anion)

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

02/17/2017

EXPIRY DATE: (mm/dd/yyyy)

02/17/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

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

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.9% of sodium perfluoro-1-dodecanesulfonate (L-PFDoS).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 02/22/2017

(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

17G1325

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

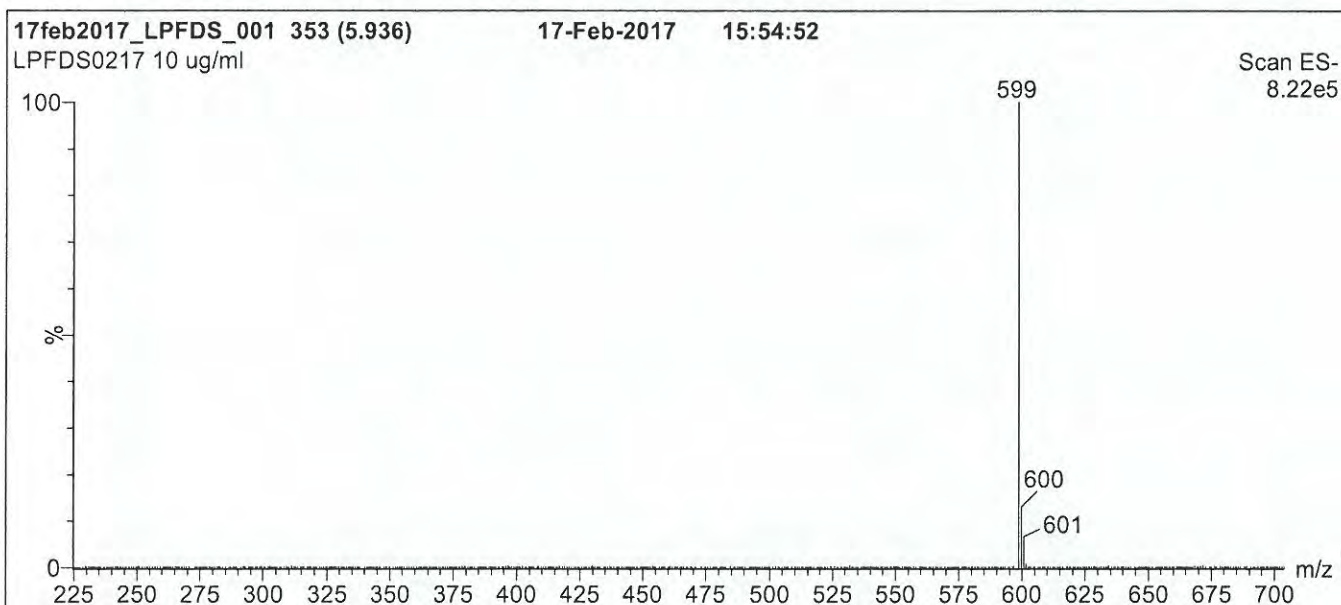
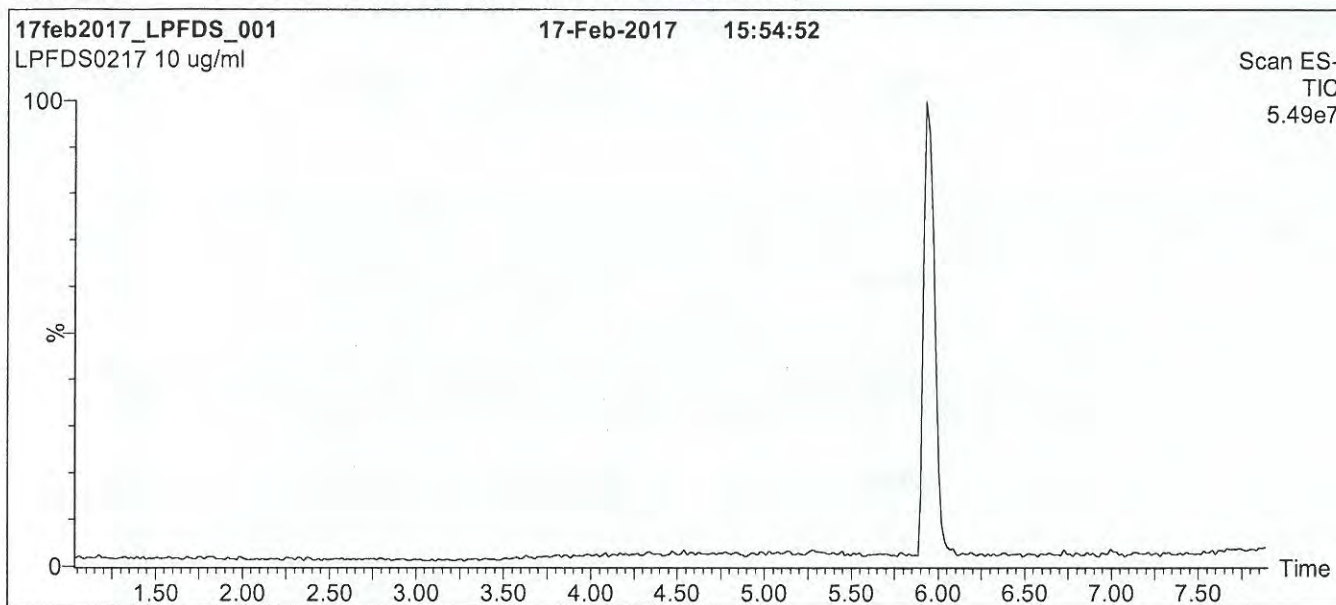
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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

17G1325

Figure 1: L-PFDS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for
1 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

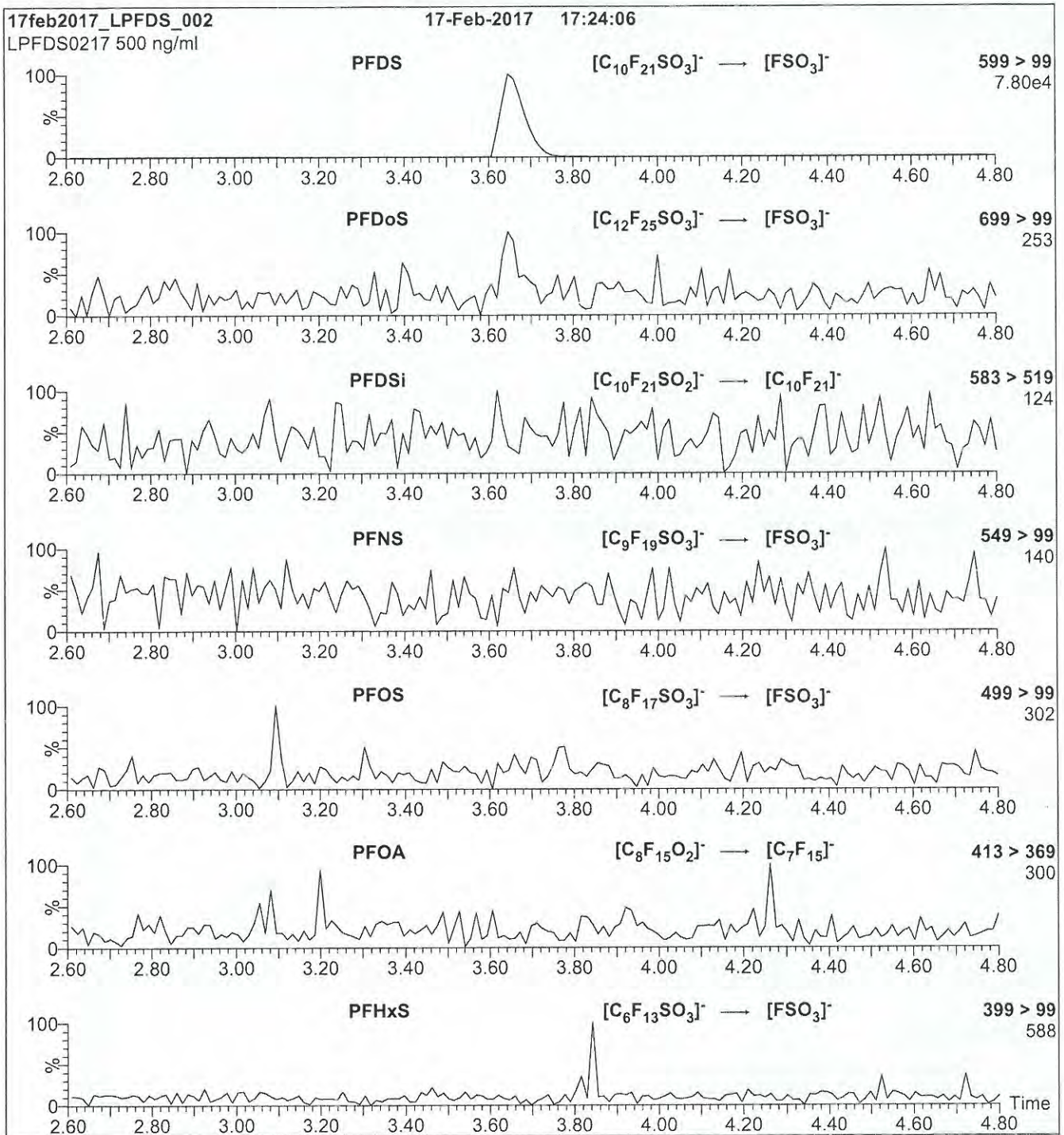
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 70.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1325

Figure 2: L-PFDS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml L-PFDS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 50

17G1326



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

L-PFHpS

LOT NUMBER:

LPFHpS1016

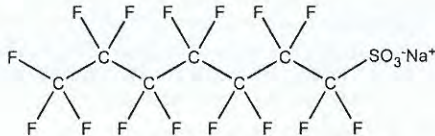
COMPOUND:

Sodium perfluoro-1-heptanesulfonate

STRUCTURE:

CAS #:

Not available



MOLECULAR FORMULA:

C₇F₁₅SO₃Na

MOLECULAR WEIGHT:

472.10

CONCENTRATION:

50.0 ± 2.5 µg/ml (Na salt)
47.6 ± 2.4 µg/ml (PFHpS anion)

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

10/18/2016

EXPIRY DATE: (mm/dd/yyyy)

10/18/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

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

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.2% of L-PFHxS (C₈F₁₃SO₃Na) and ~ 0.1% of L-PFOS (C₈F₁₇SO₃Na).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 10/20/2016

(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

17G1326

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

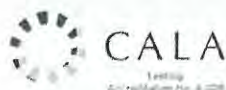
Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

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:

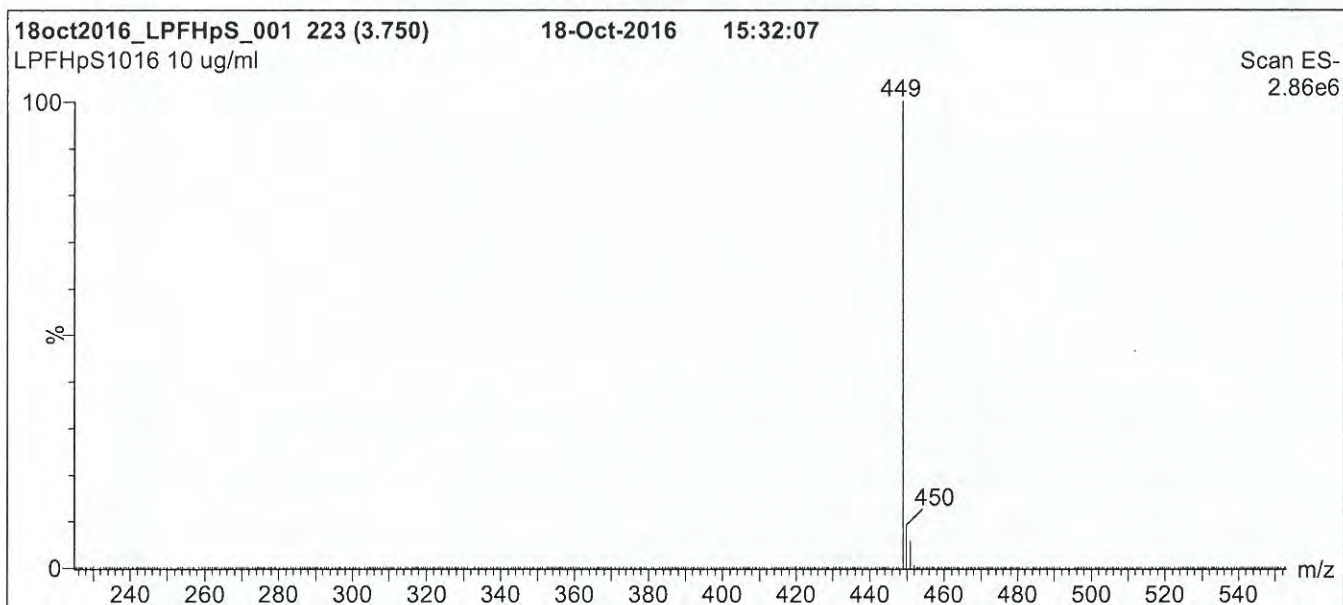
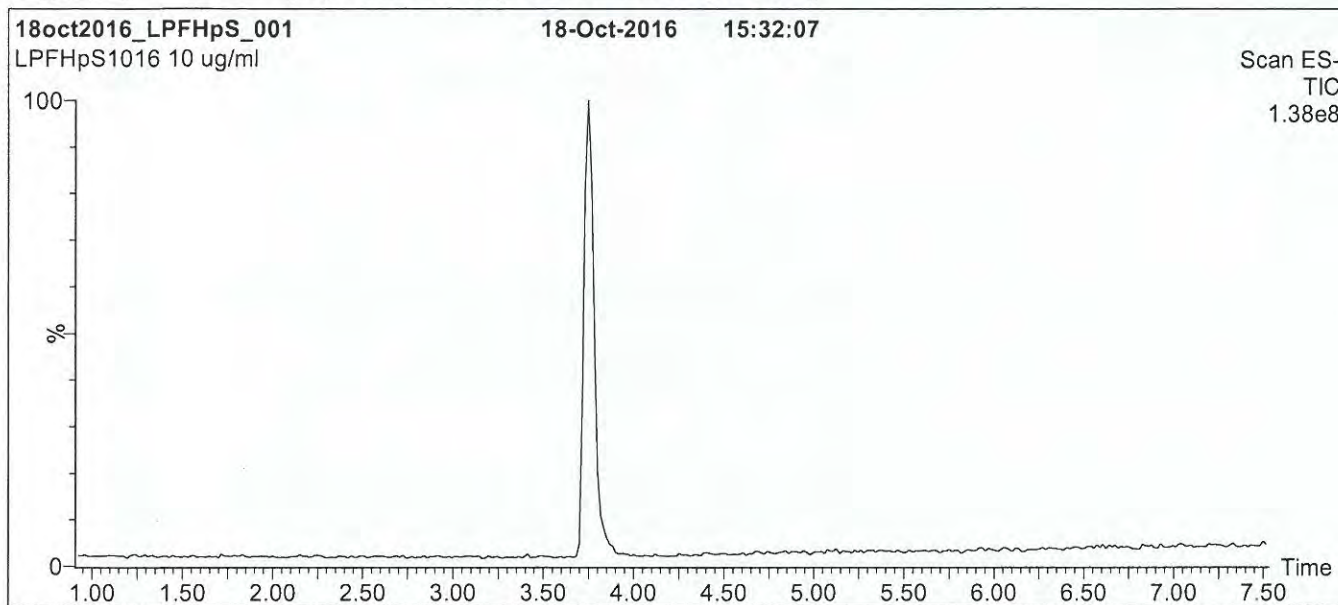
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1326

Figure 1: L-PFHpS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold
for 2 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

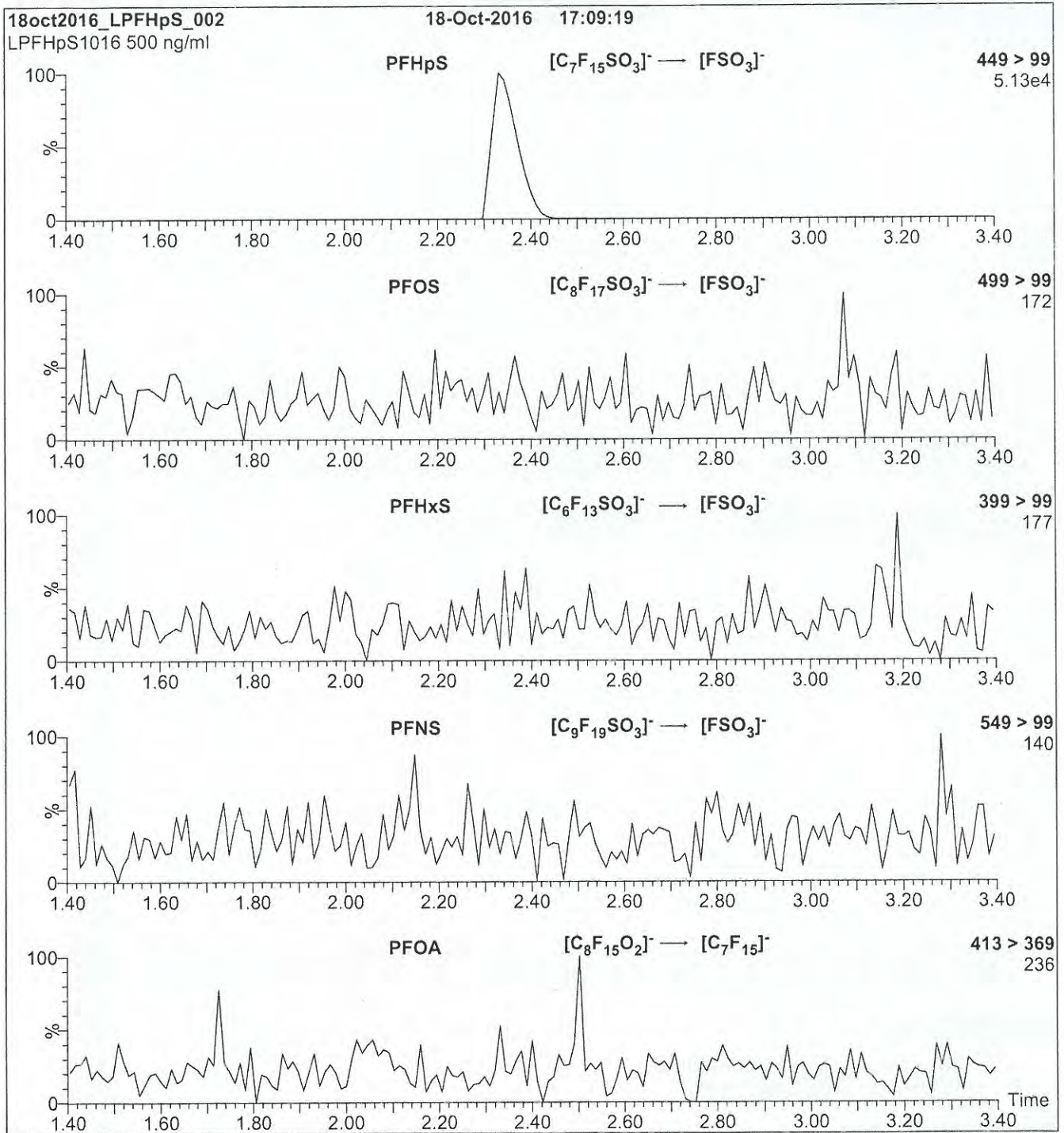
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17 G1326

Figure 2: L-PFHpS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml L-PFHpS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 35

17G1805



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

✓
PFDA

LOT NUMBER:

✓
PFDA0516

COMPOUND:

Perfluoro-n-decanoic acid

STRUCTURE:

CAS #:

335-76-2



MOLECULAR FORMULA:

$C_{10}HF_{19}O_2$

MOLECULAR WEIGHT:

514.08

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

SOLVENT(S):

Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

05/31/2016

EXPIRY DATE: (mm/dd/yyyy)

05/31/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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-nonanoic acid (PFNA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 06/13/2016

(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

17G1805

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

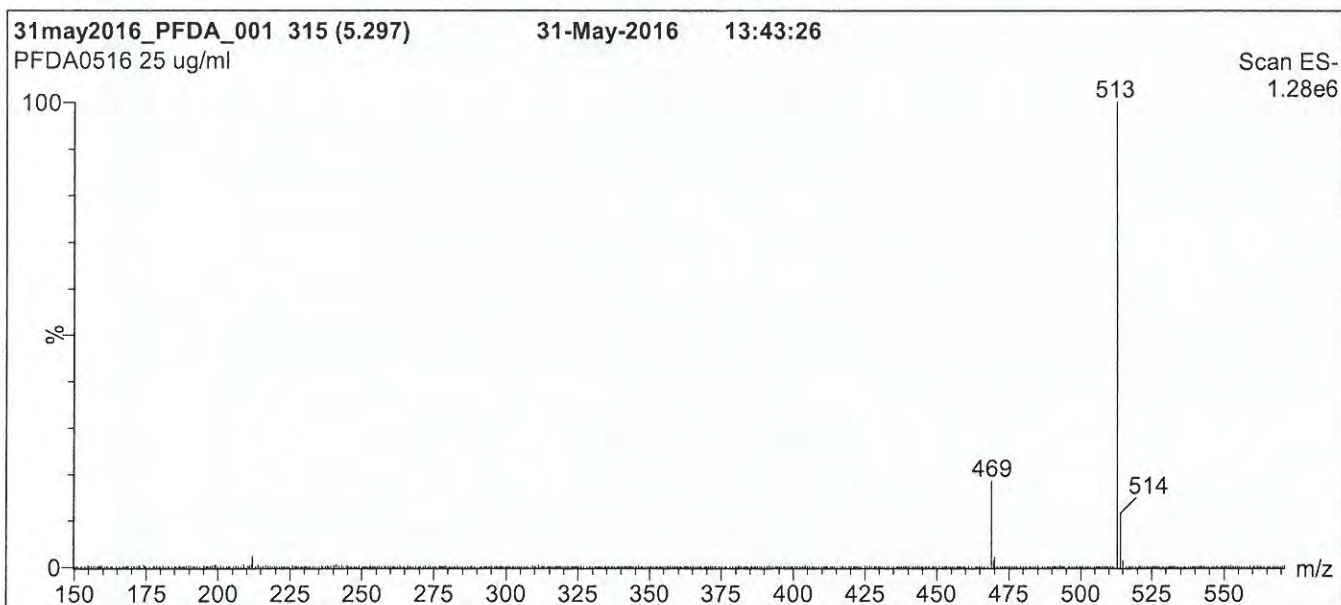
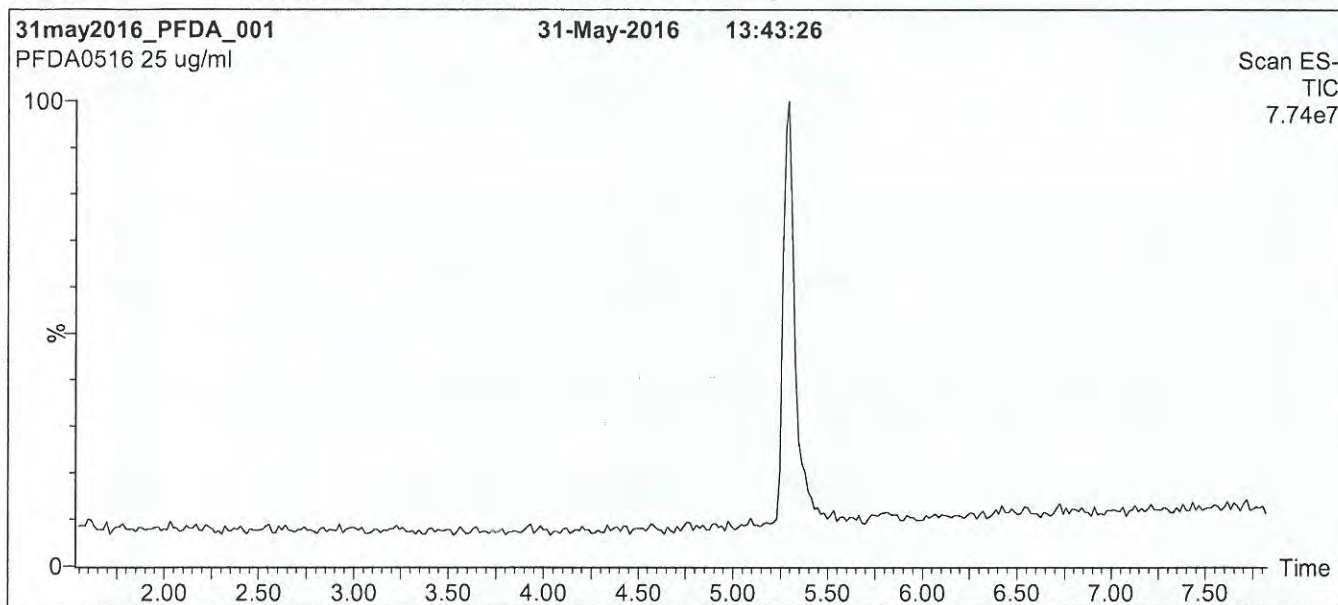
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1805

Figure 1: PFDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

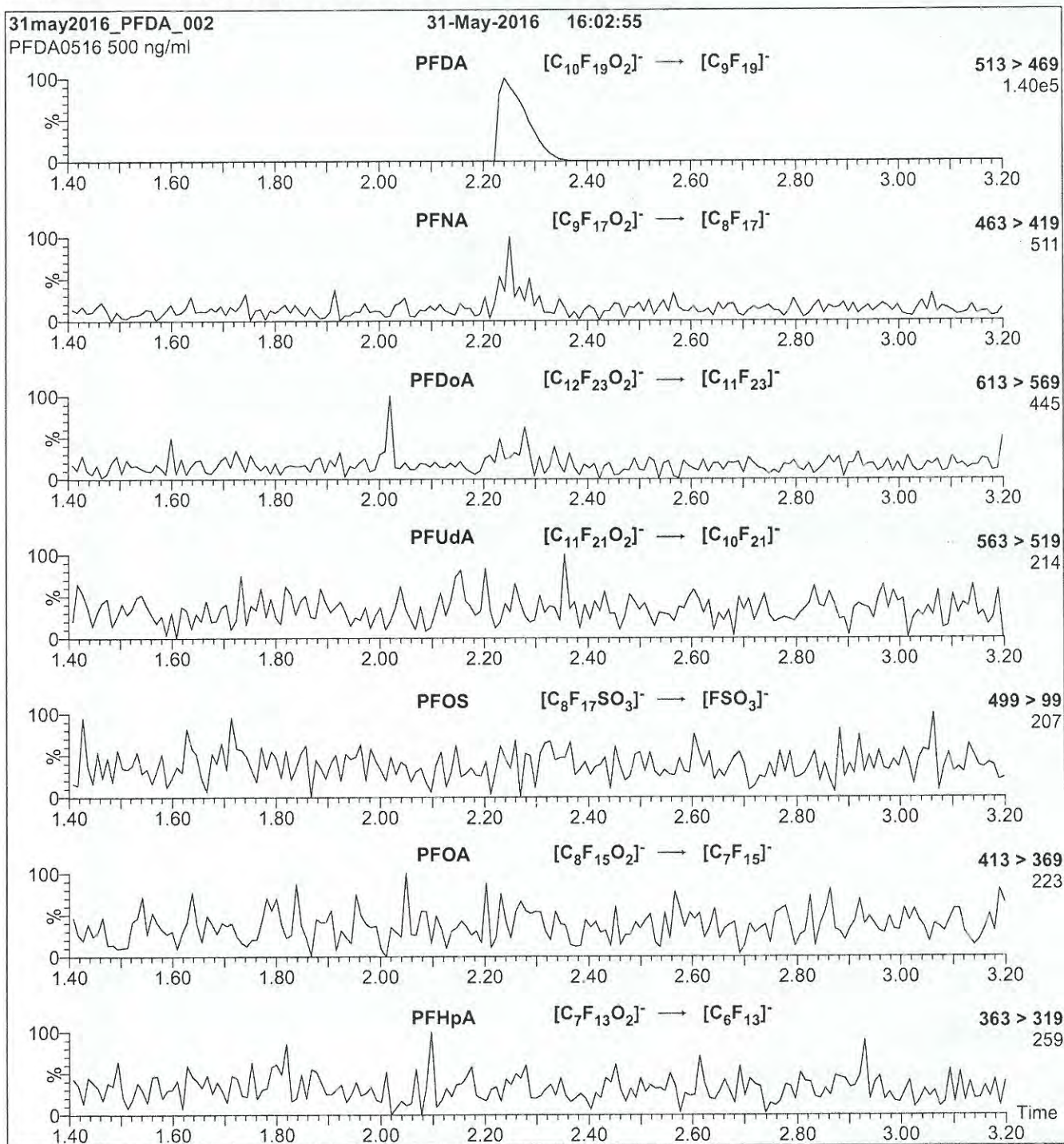
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1805

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 13

17G1806



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

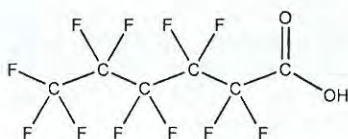
PRODUCT CODE:
COMPOUND:

✓
PFHxA
Perfluoro-n-hexanoic acid

✓
LOT NUMBER: PFHxA1216

STRUCTURE:

CAS #: 307-24-4



MOLECULAR FORMULA:
CONCENTRATION:

$C_6H_9F_{11}O_2$
 $50 \pm 2.5 \mu\text{g/ml}$

MOLECULAR WEIGHT: 314.05
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

12/02/2016

EXPIRY DATE: (mm/dd/yyyy)

12/02/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 branched isomers.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 12/07/2016
(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

17G1806

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

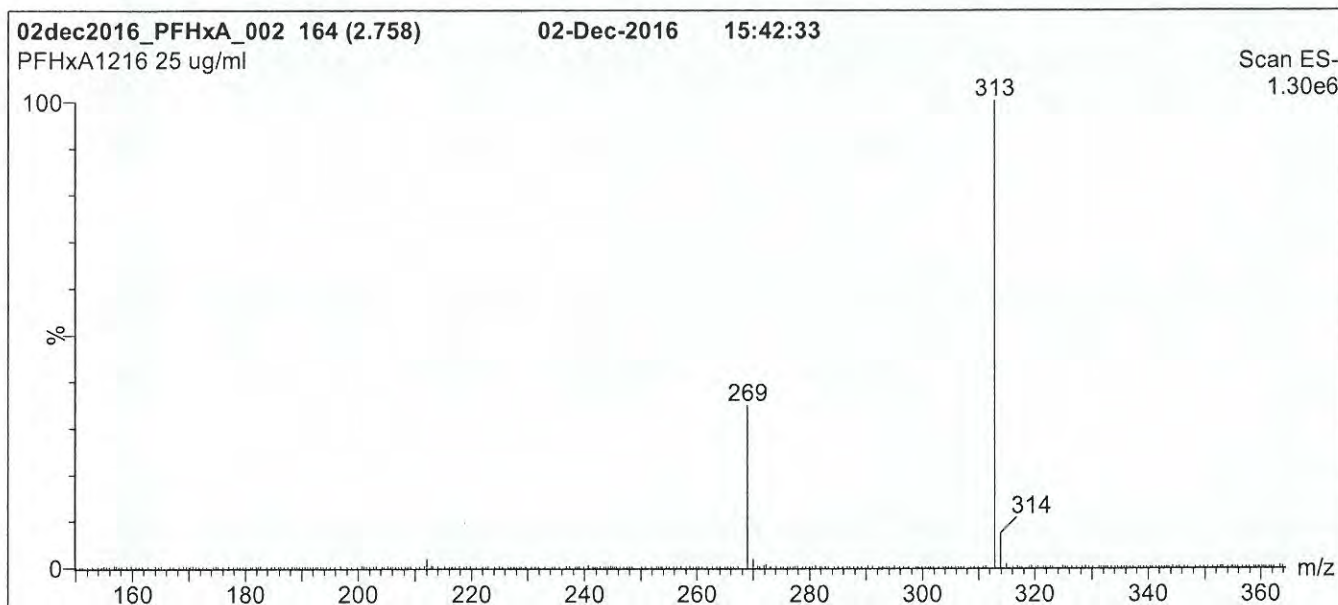
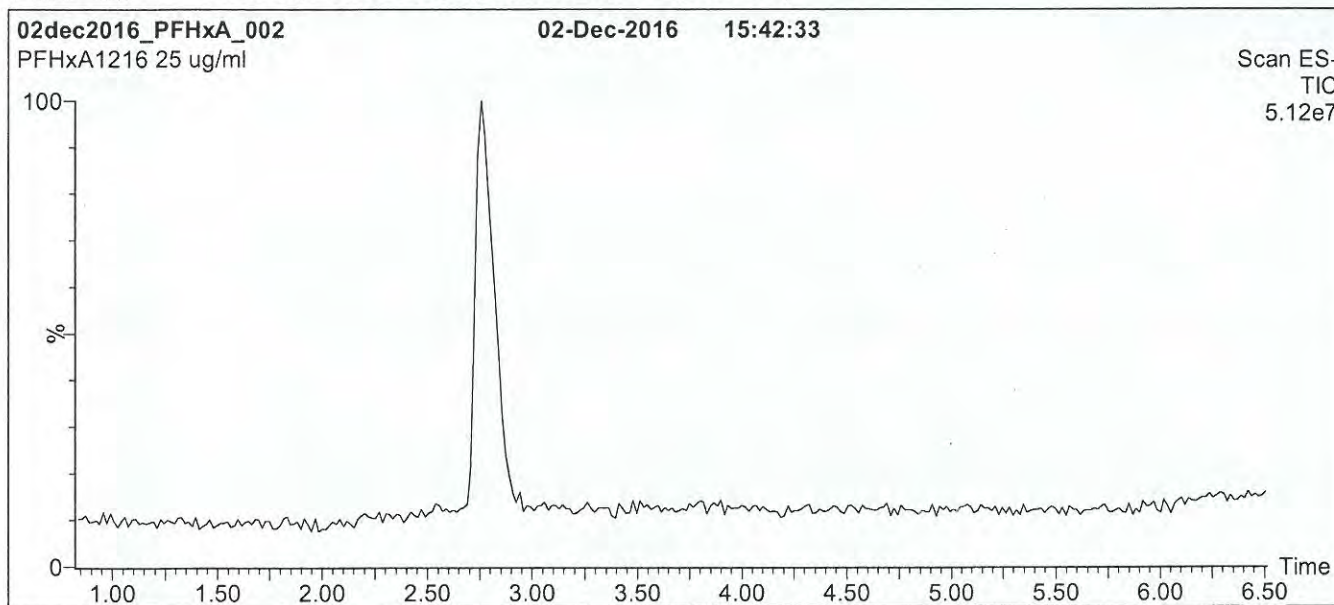
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1806

Figure 1: PFHxA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro micro API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

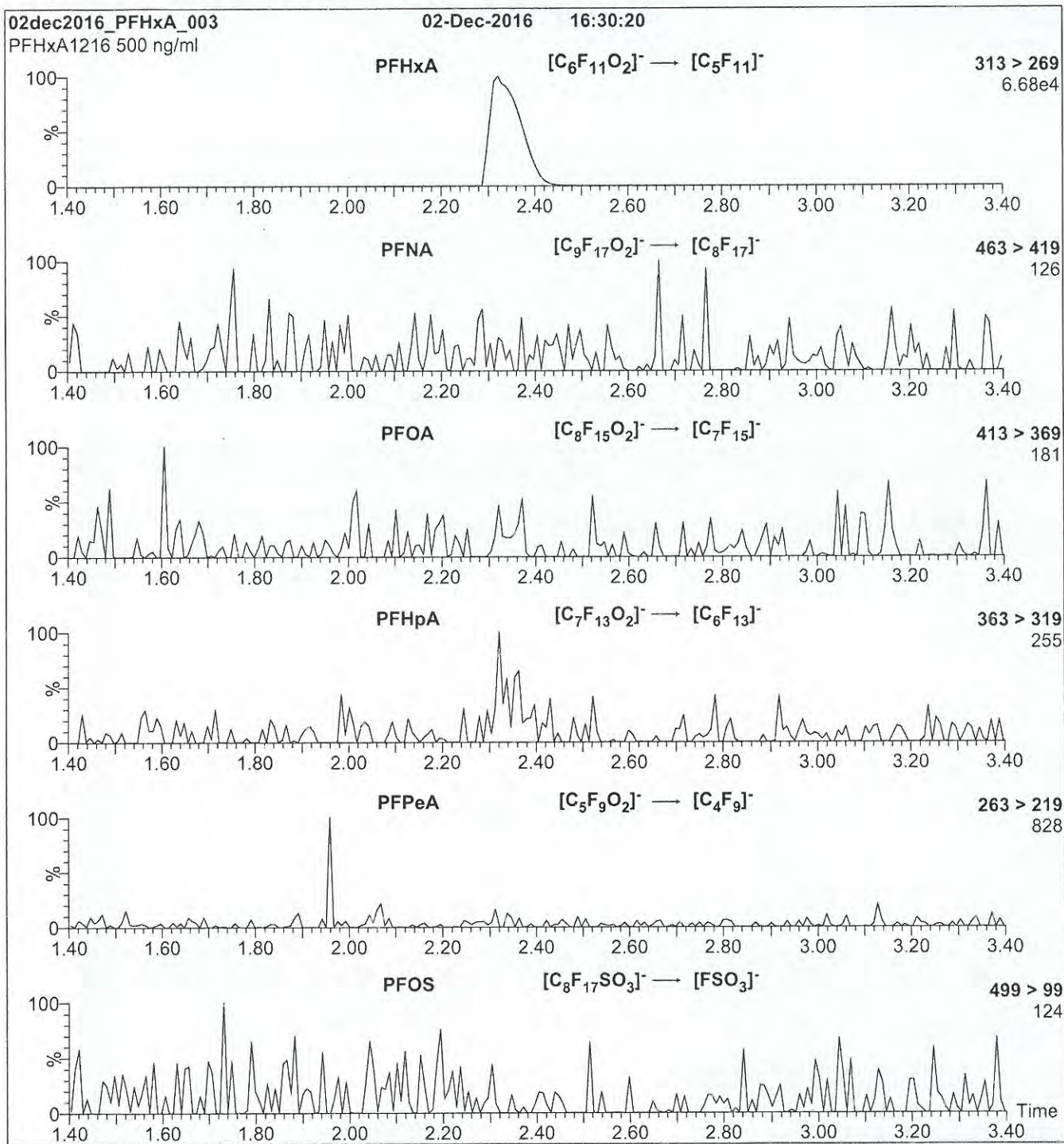
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1806

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFHxA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.46e-3
Collision Energy (eV) = 10

17G1807



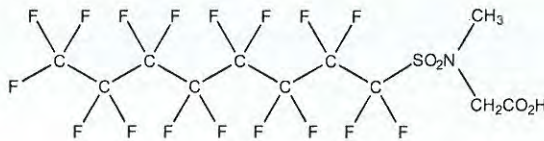
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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: N-MeFOSAA ✓
COMPOUND: N-methylperfluoro-1-octanesulfonamidoacetic acid

LOT NUMBER: NMeFOSAA0117 ✓

STRUCTURE:
CAS #: 2355-31-9



MOLECULAR FORMULA: C₁₁H₆F₁₇NO₄S
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 571.21
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/11/2017
EXPIRY DATE: (mm/dd/yyyy) 01/11/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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: 
B.G. Chittim
Date: 01/12/2017
(mm/dd/yyyy)

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

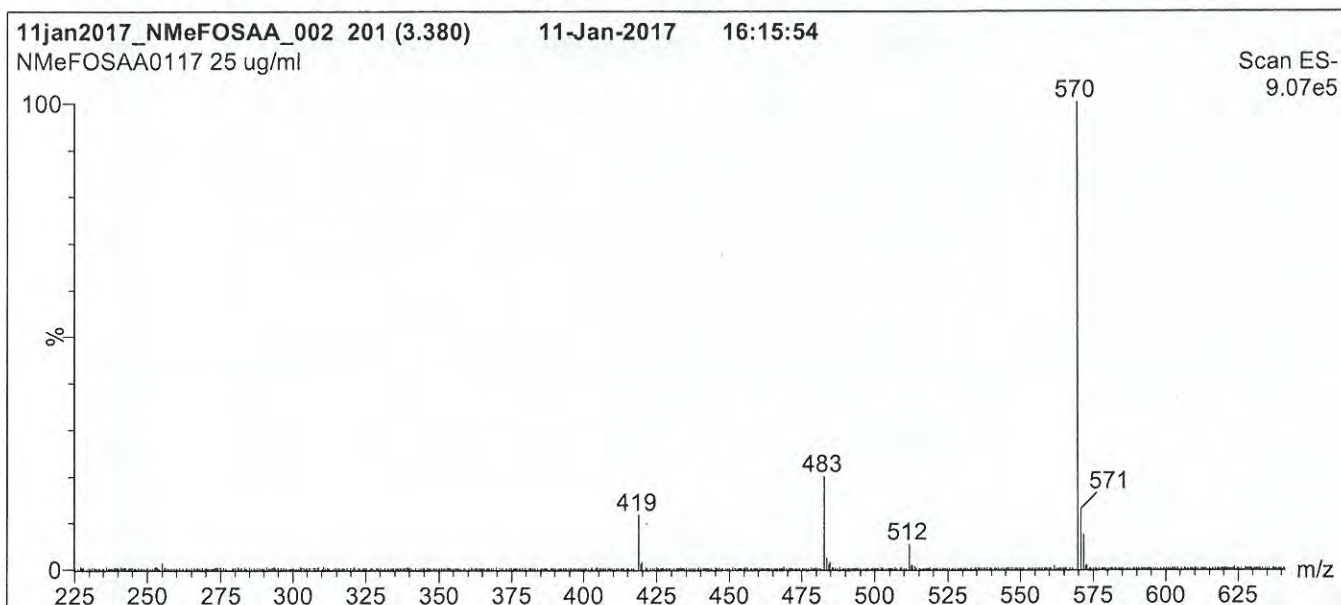
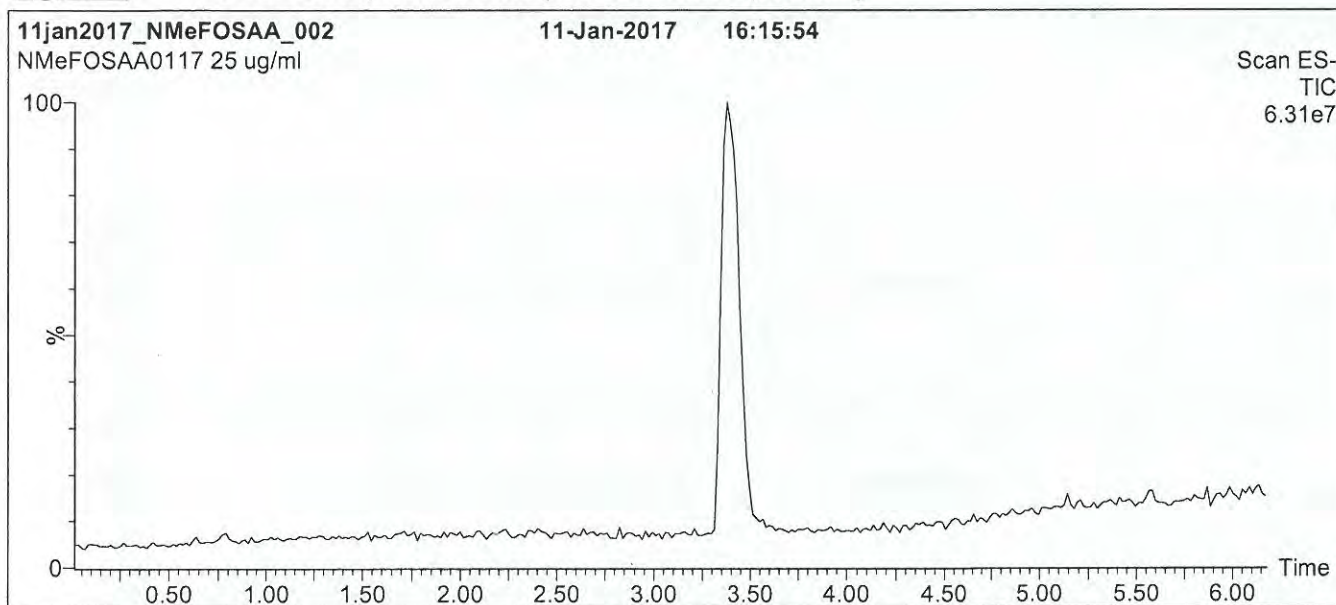
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17G1807

Figure 1: N-MeFOSAA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 65% (80:20 MeOH:ACN) / 35% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

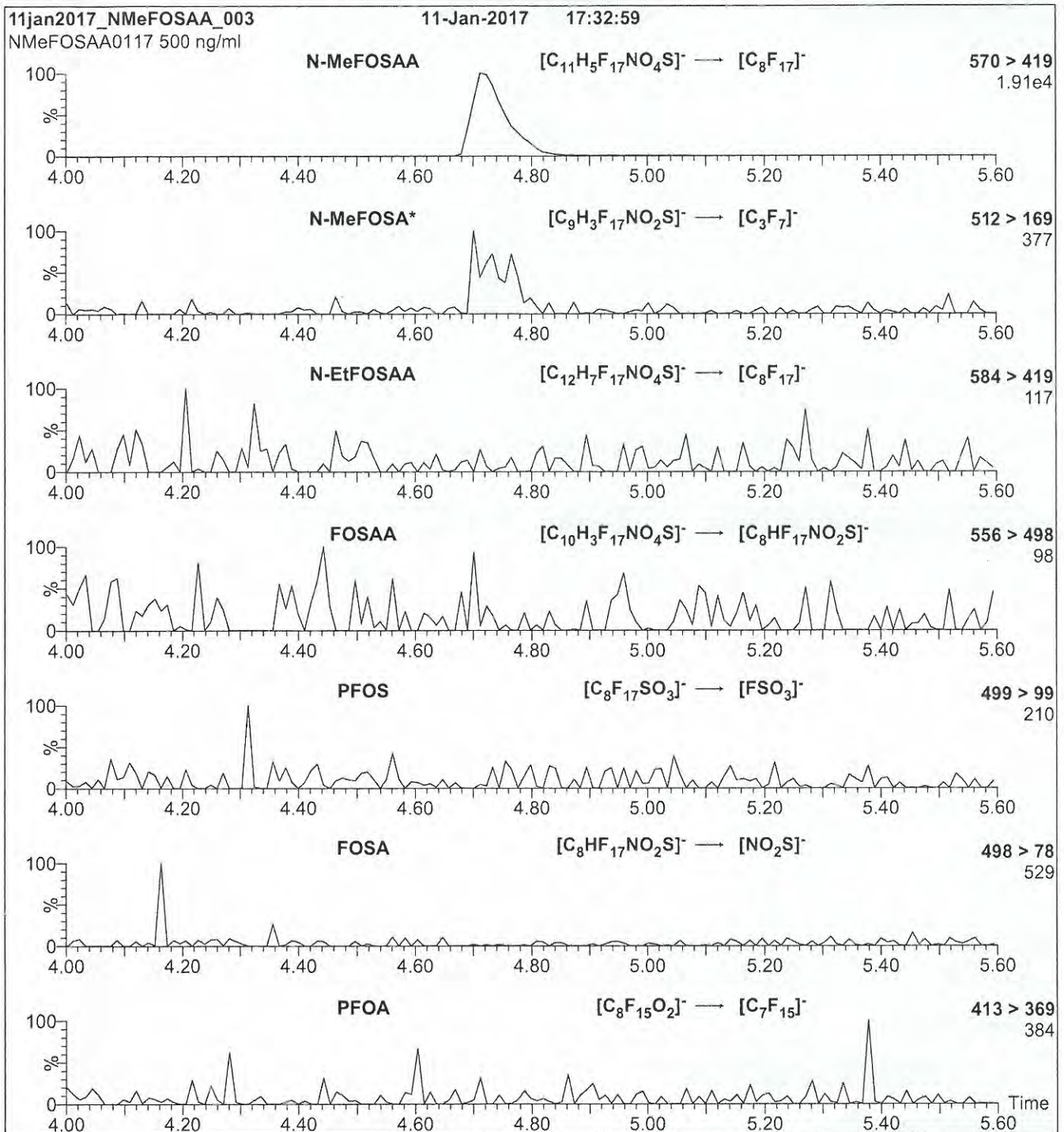
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1807

Figure 2: N-MeFOSAA; LC/MS/MS Data (Selected MRM Transitions)



*Note: N-MeFOSA is formed by in-source fragmentation.

Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml N-MeFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 20

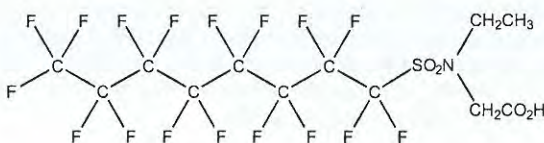
17G 1808


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: N-EtFOSAA ✓ **LOT NUMBER:** NEtFOSAA0117 ✓
COMPOUND: N-ethylperfluoro-1-octanesulfonamidoacetic acid

STRUCTURE: **CAS #:** 2991-50-6



MOLECULAR FORMULA: C₁₂H₈F₁₇NO₄S **MOLECULAR WEIGHT:** 585.23
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/11/2017
EXPIRY DATE: (mm/dd/yyyy) 01/11/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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: _____

B.G. Chittim

Date: 01/12/2017

(mm/dd/yyyy)

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

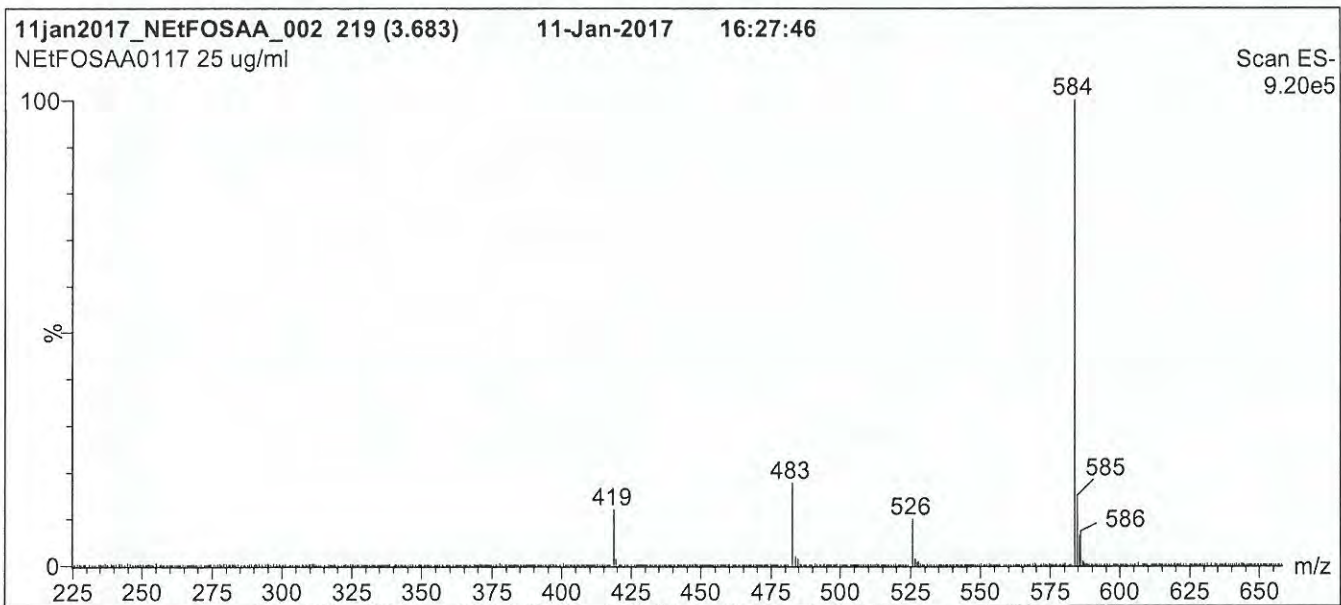
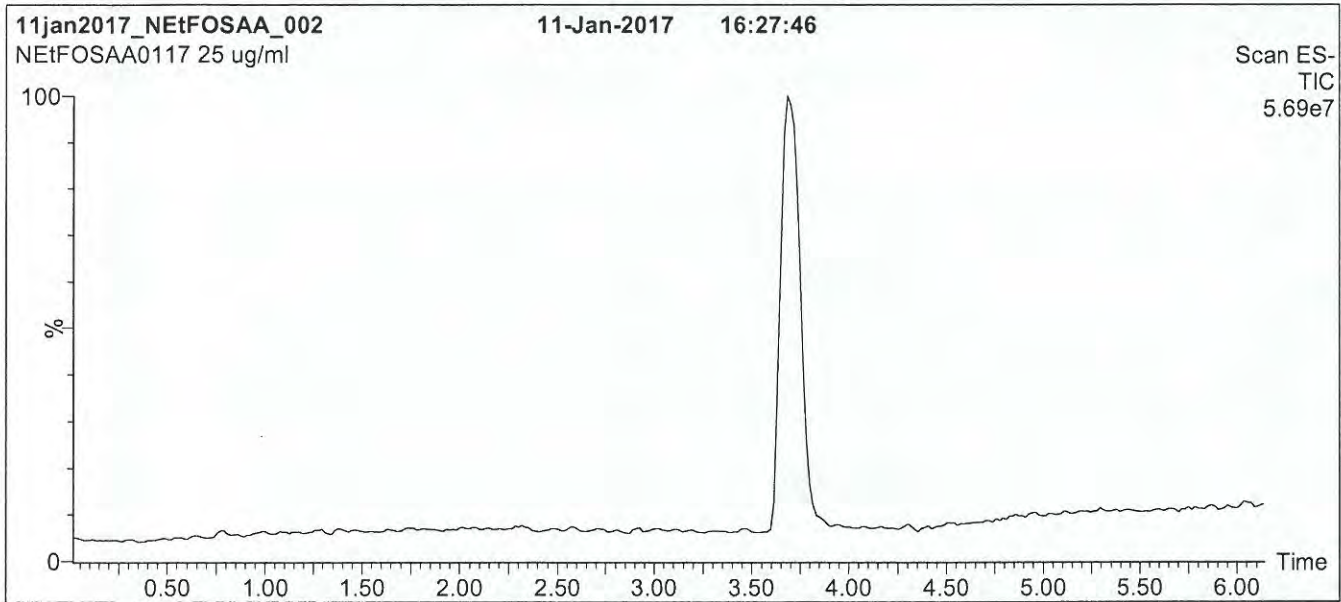
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17G1808

Figure 1: N-EtFOSAA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 65% (80:20 MeOH:ACN) / 35% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7.5 min and hold for 1.5 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

Flow: 300 μ l/min

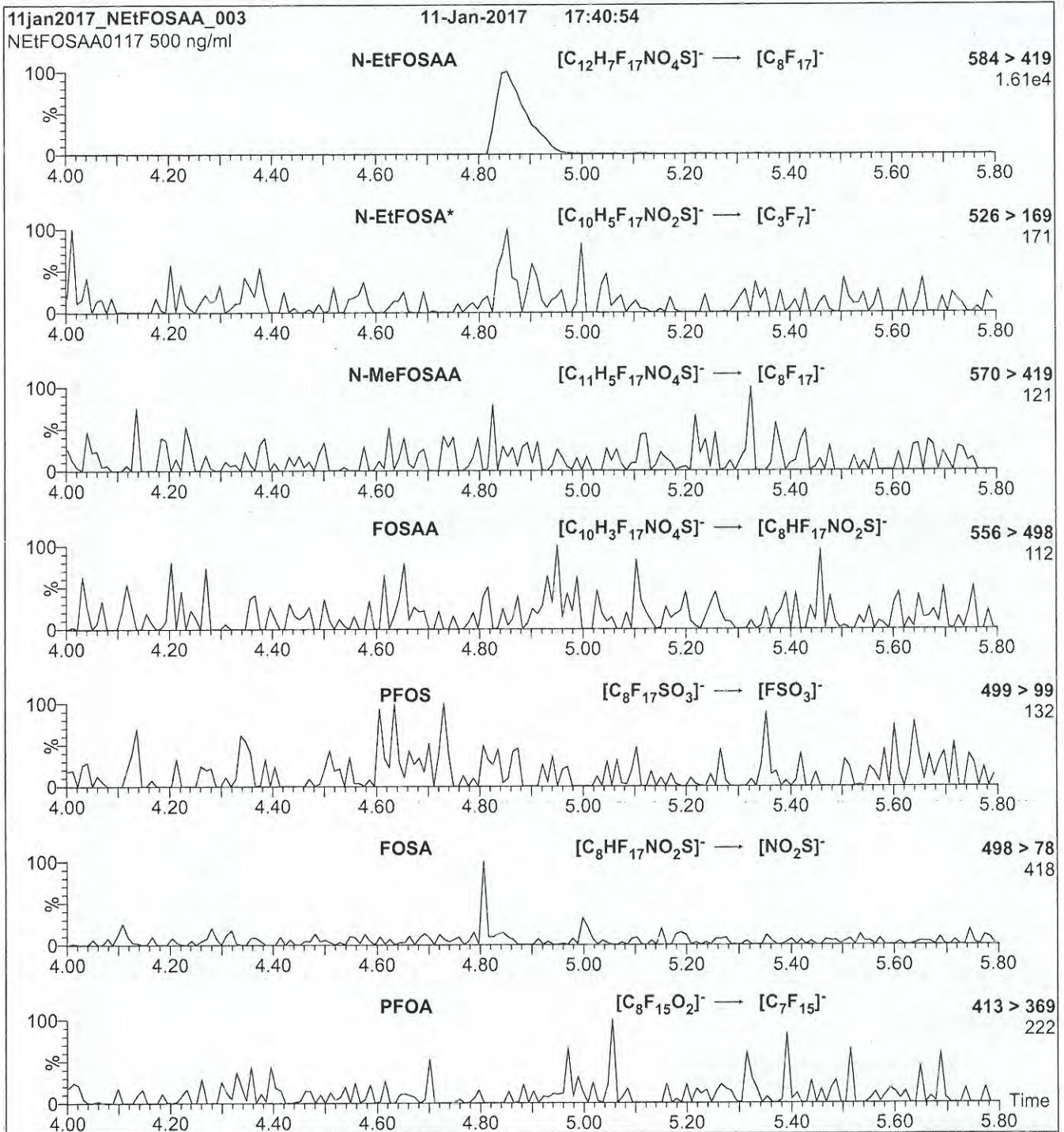
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 35.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

17G1808

Figure 2: N-EtFOSAA; LC/MS/MS Data (Selected MRM Transitions)



Note: N-EtFOSA is formed by fragmentation of N-EtFOSAA.

Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml N-EtFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 20

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CERTIFICATE OF ANALYSIS
DOCUMENTATION

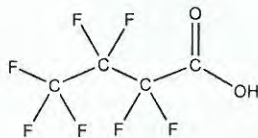
PRODUCT CODE:
COMPOUND:

PFBA
Perfluoro-n-butanoic acid

LOT NUMBER: PFBA0517

STRUCTURE:

CAS #: 375-22-4



MOLECULAR FORMULA:
CONCENTRATION:

$C_4HF_7O_2$
 $50 \pm 2.5 \mu\text{g/ml}$

MOLECULAR WEIGHT: 214.04
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

05/29/2017

EXPIRY DATE: (mm/dd/yyyy)

05/29/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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: 05/30/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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UNCERTAINTY:

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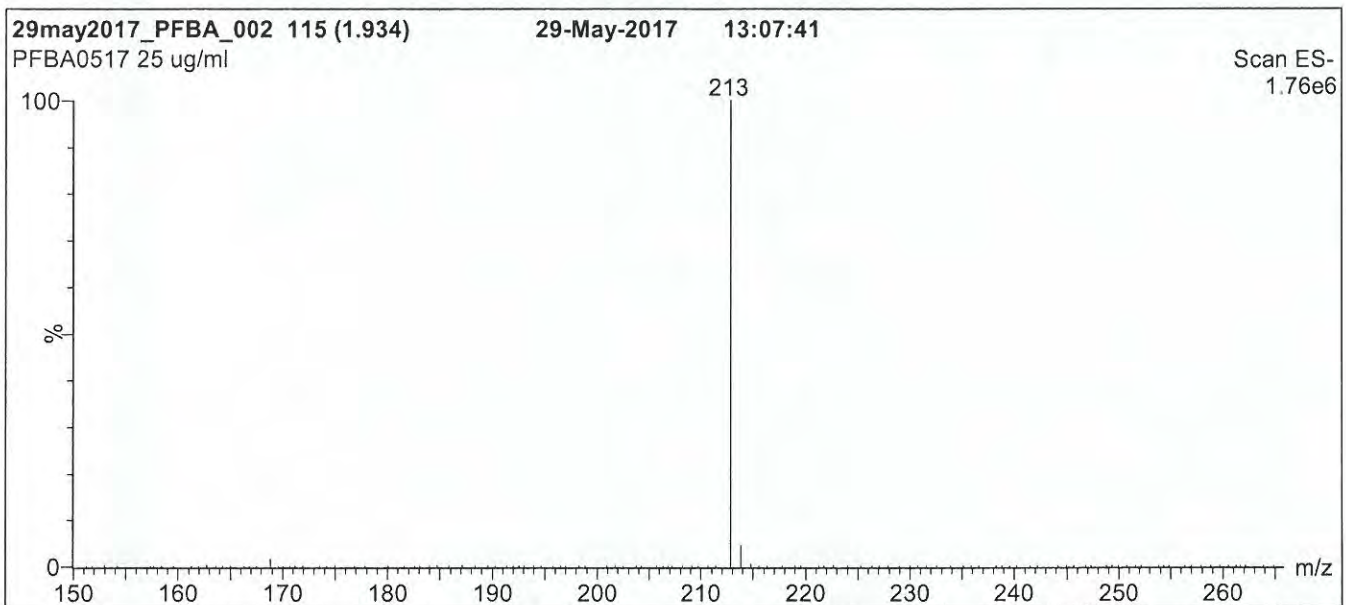
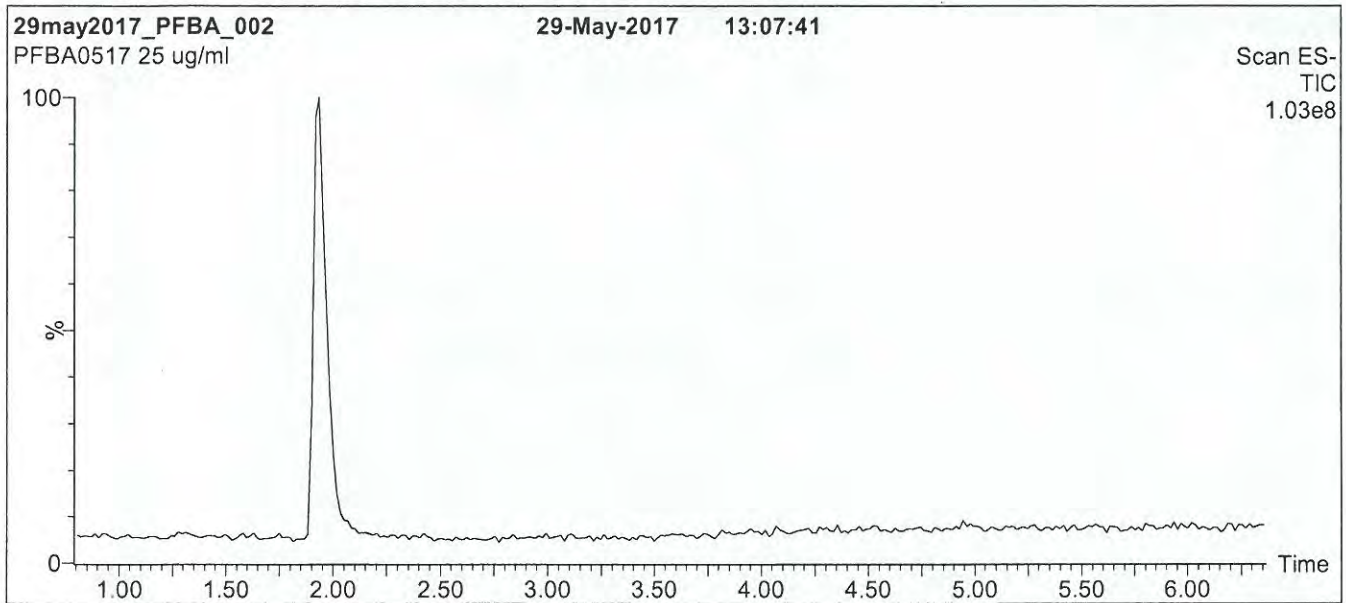
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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

17G1809

Figure 1: PFBA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

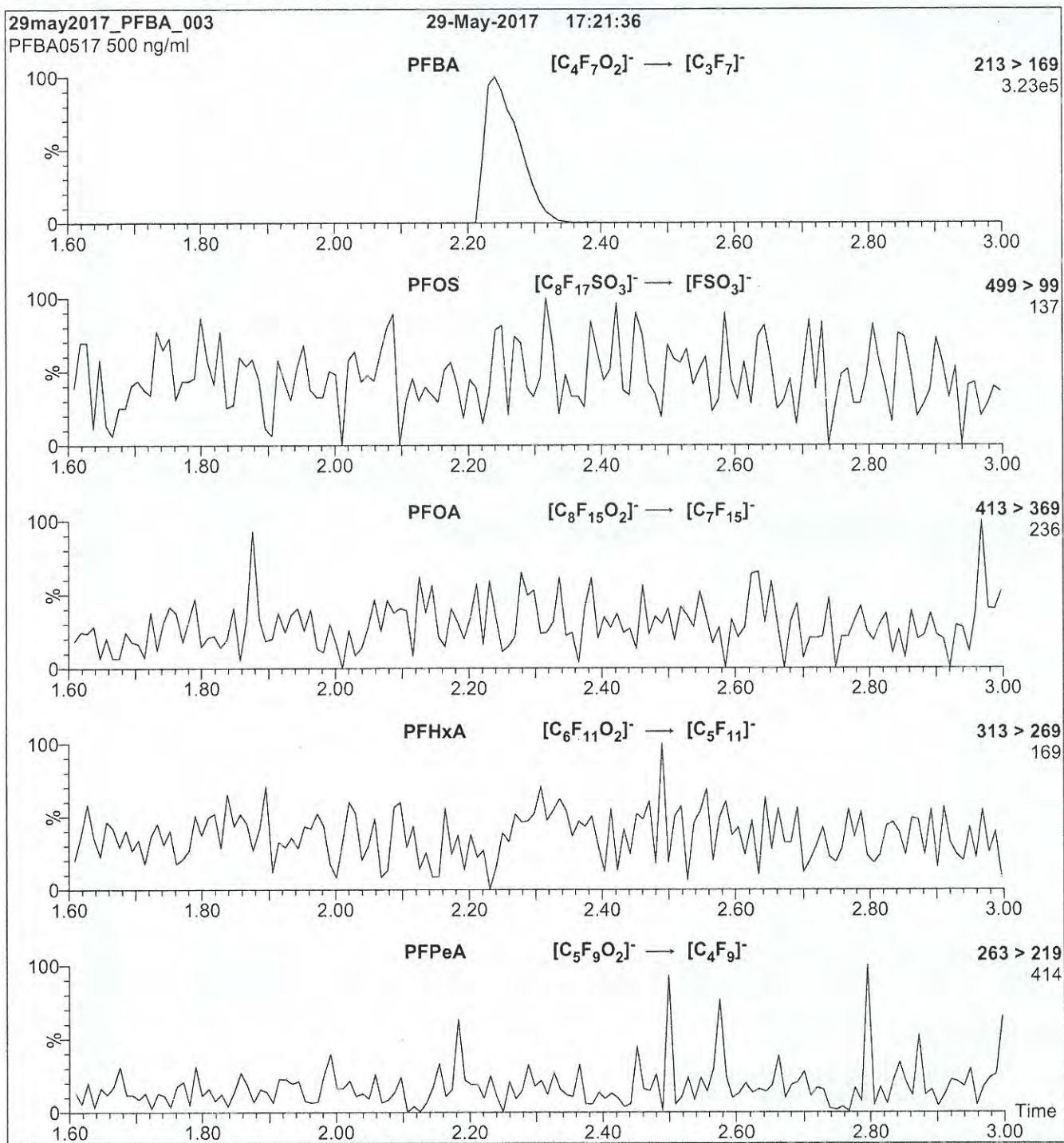
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1809

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



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml PFBA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 10

17G1810



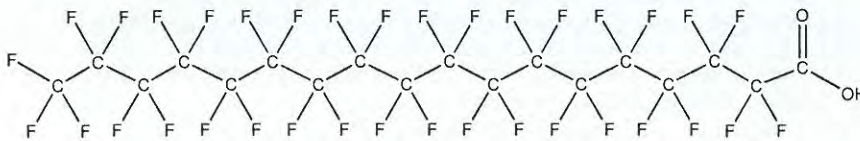
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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFODA ✓
COMPOUND: Perfluoro-n-octadecanoic acid

LOT NUMBER: PFODA0416 ✓

STRUCTURE:
CAS #: 16517-11-6



MOLECULAR FORMULA: $C_{18}HF_{35}O_2$
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/29/2016
EXPIRY DATE: (mm/dd/yyyy) 04/29/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

MOLECULAR WEIGHT: 914.14
SOLVENT(S): Methanol
Water (<1%)

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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
Date: 05/20/2016
(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

17 G1810

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

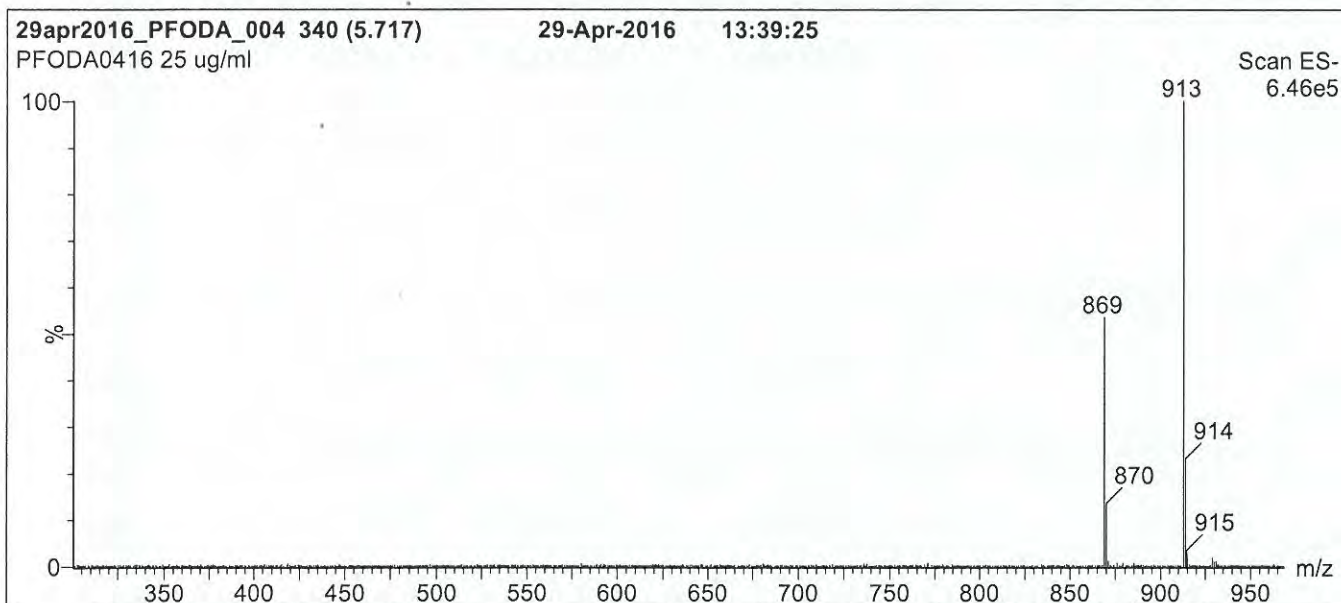
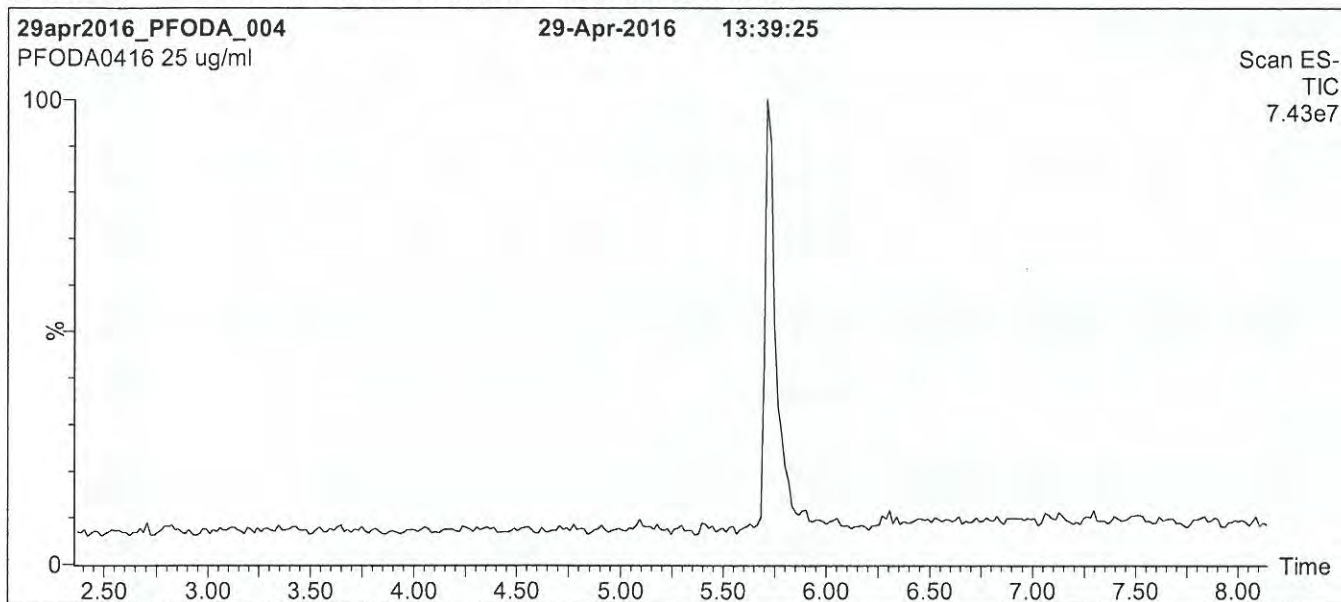
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1810

Figure 1: PFODA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient

Start: 70% (80:20 MeOH:ACN) / 30% H₂O
(both with 10 mM NH₄OAc buffer)

Ramp to 95% organic over 6 min and hold for
2.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (250 - 1000 amu)

Source: Electrospray (negative)

Capillary Voltage (kV) = 3.00

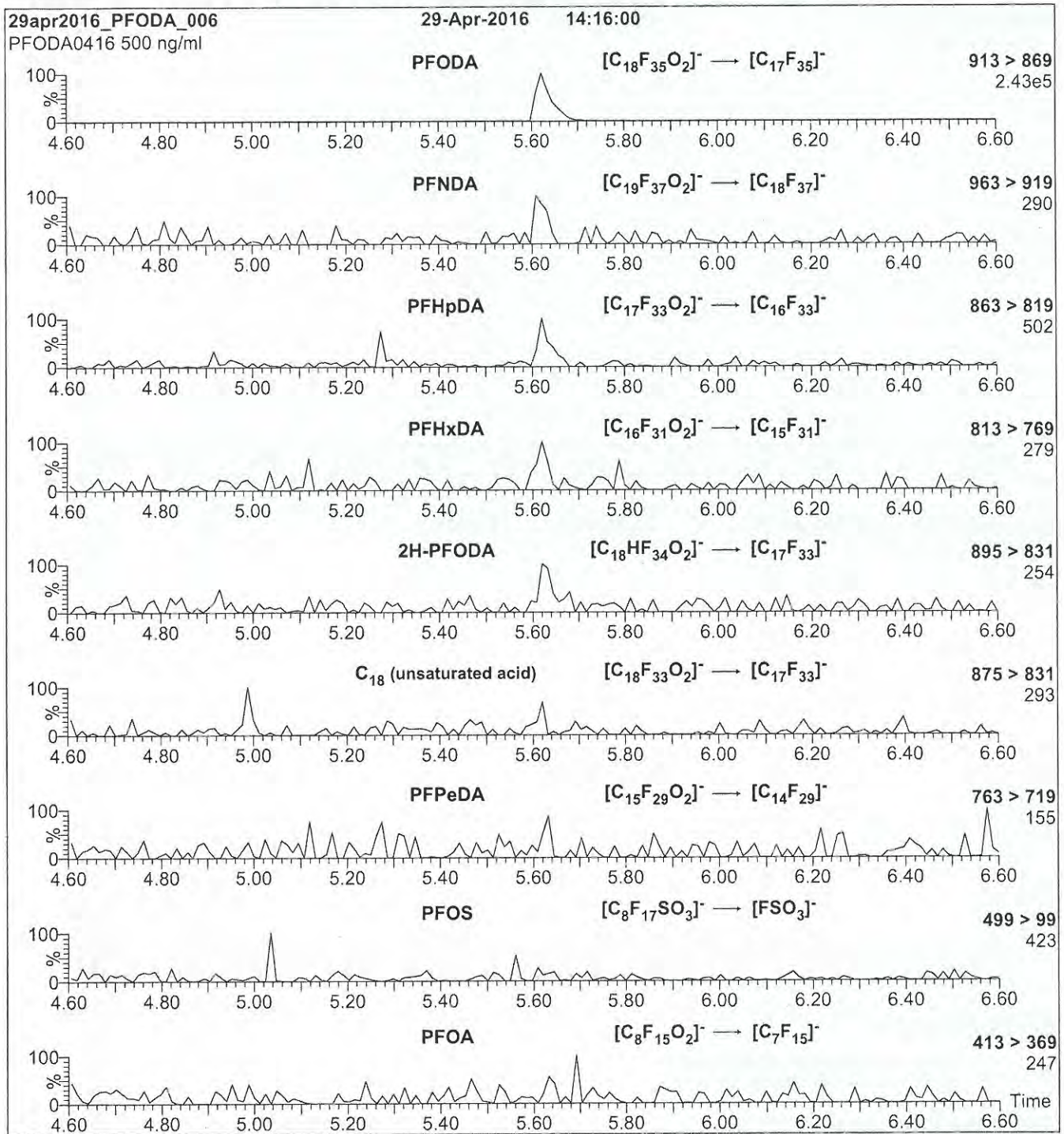
Cone Voltage (V) = 25.00

Cone Gas Flow (l/hr) = 50

Desolvation Gas Flow (l/hr) = 750

17G1810

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



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml PFODA)

Mobile phase: Isocratic 90% (80:20 MeOH:ACN) / 10% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 15

17G1812

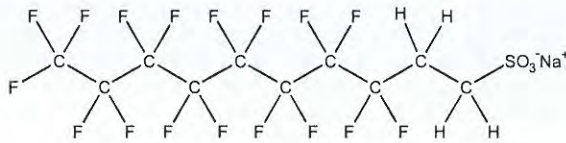


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: 8:2FTS **LOT NUMBER:** 82FTS1216
COMPOUND: Sodium 1H,1H,2H,2H-perfluorodecane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₁₀H₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 550.16
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.9 ± 2.4 µg/ml (8:2FTS anion)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 12/12/2016
EXPIRY DATE: (mm/dd/yyyy) 12/12/2021
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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: 
B.G. Chittim **Date:** 12/21/2016
(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

17G1812

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

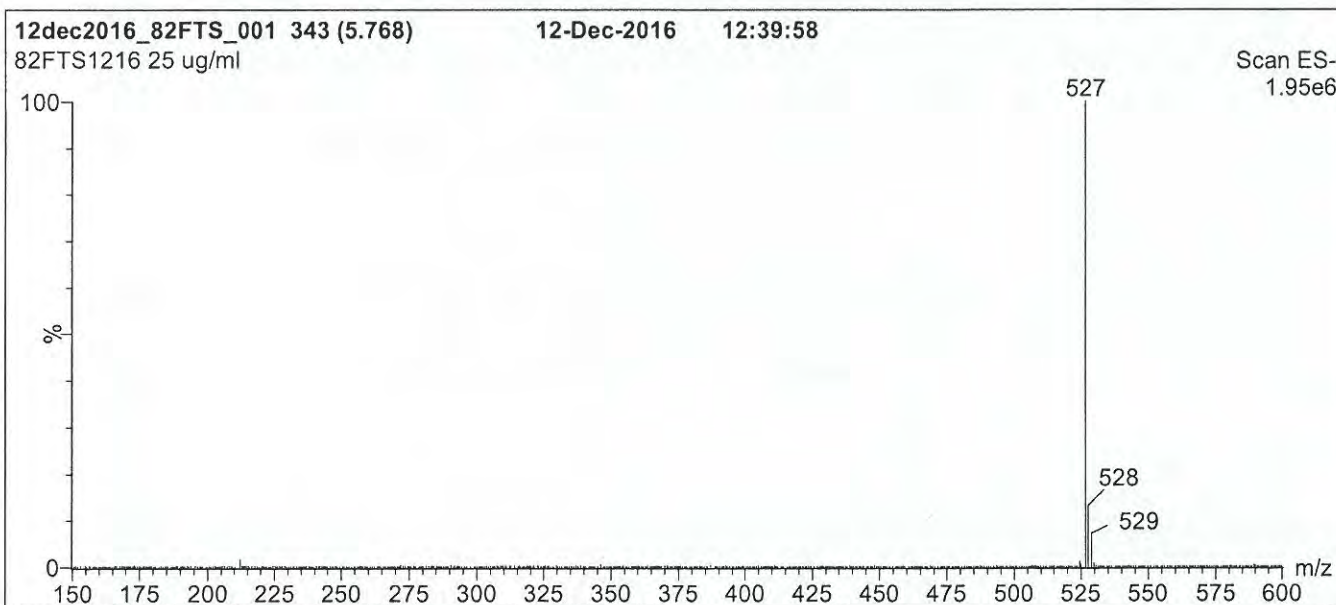
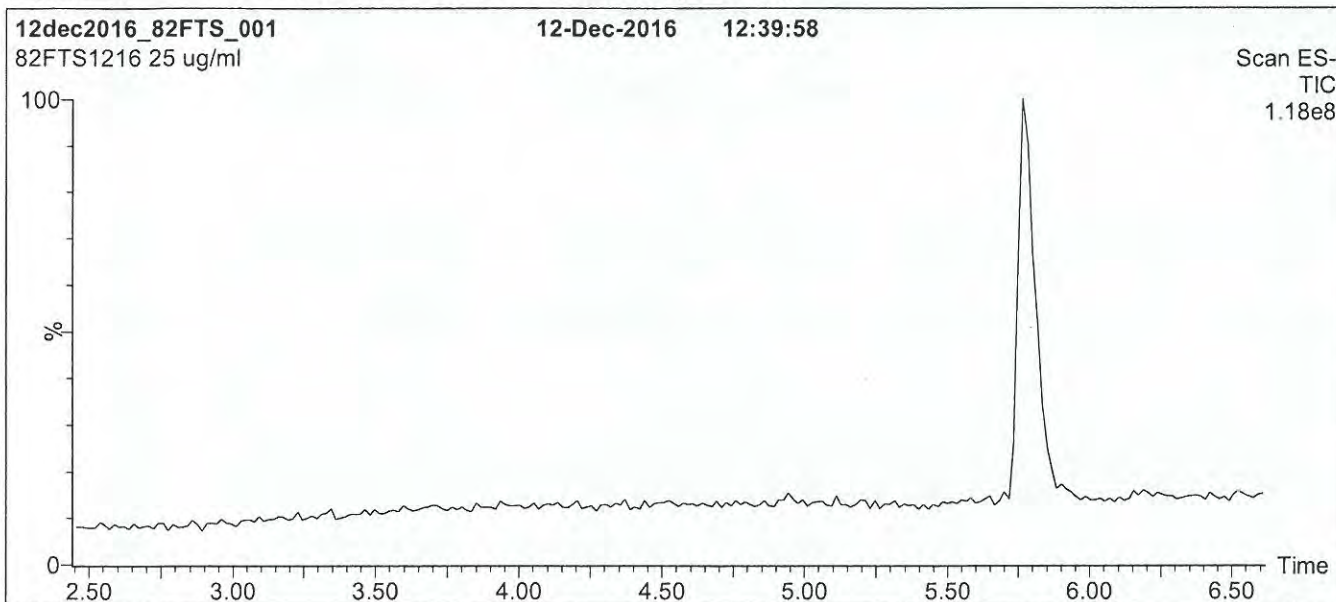
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1812

Figure 1: 8:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 85% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

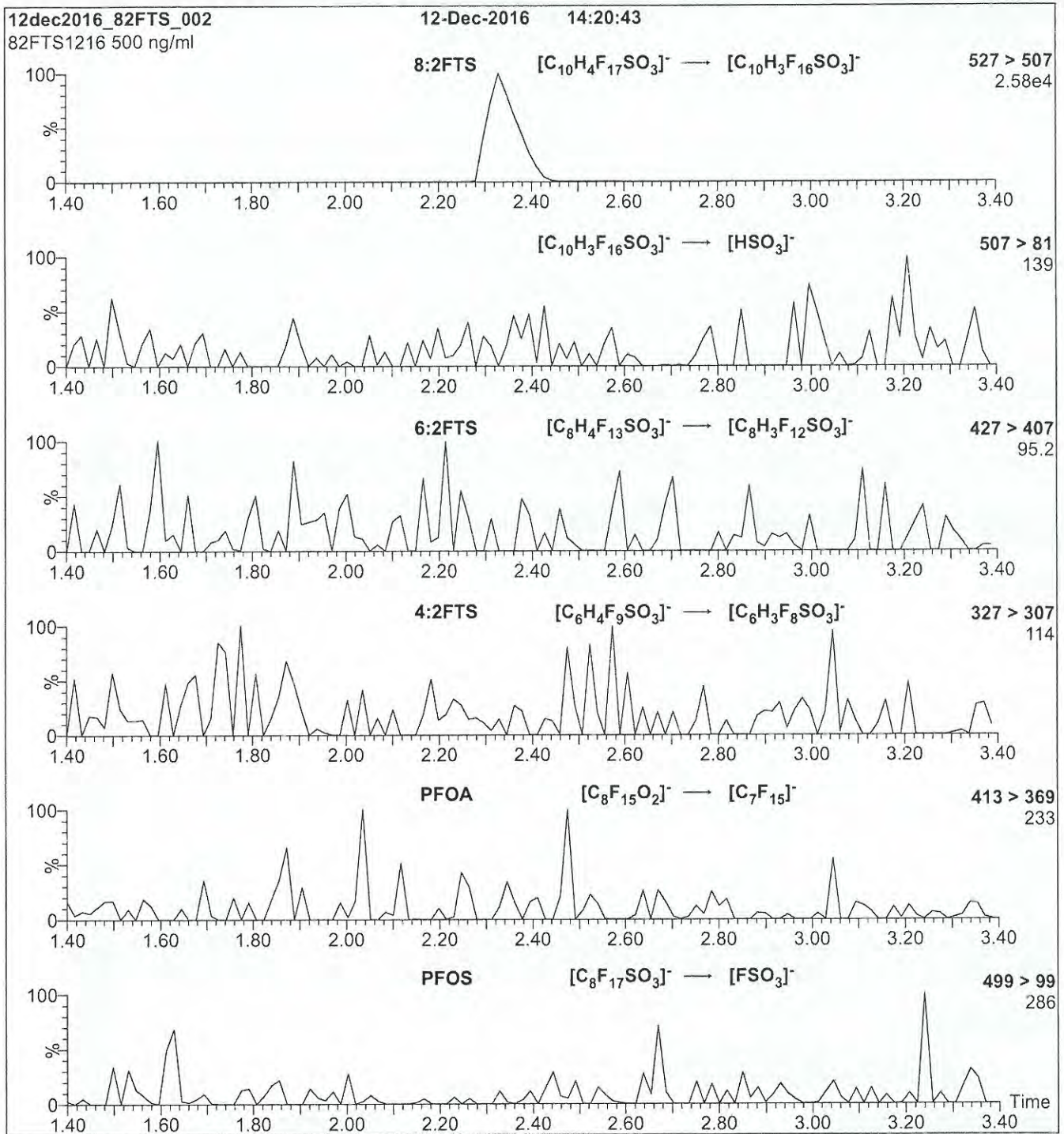
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)
Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1812

Figure 2: 8:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml 8:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 30

17G1813

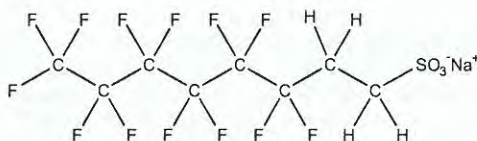


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: 6:2FTS ✓ **LOT NUMBER:** 62FTS0417 ✓
COMPOUND: Sodium 1H,1H,2H,2H-perfluorooctane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: $C_8H_4F_{13}SO_3Na$ **MOLECULAR WEIGHT:** 450.15
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.4 ± 2.4 µg/ml (6:2FTS anion)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/20/2017
EXPIRY DATE: (mm/dd/yyyy) 04/20/2022
RECOMMENDED STORAGE: Refrigerate ampoule

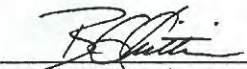
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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:** 04/24/2017
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17 G/813

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.

HAZARDS:

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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/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, \dots, x_n on which it depends is:

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

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

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TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

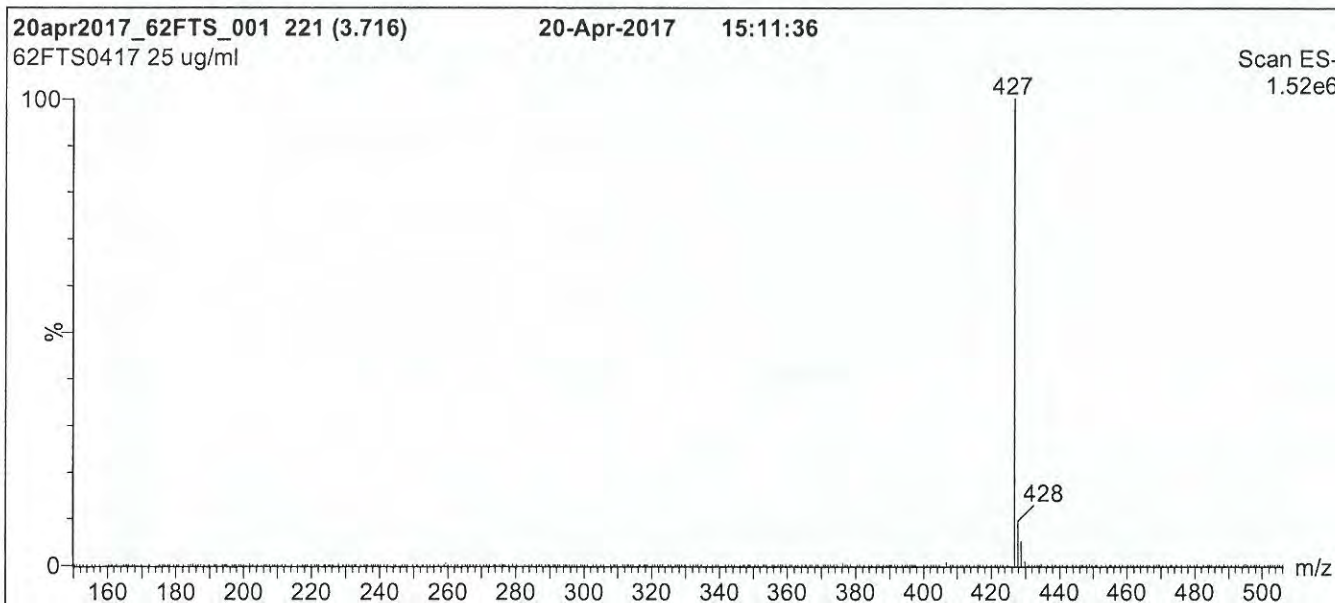
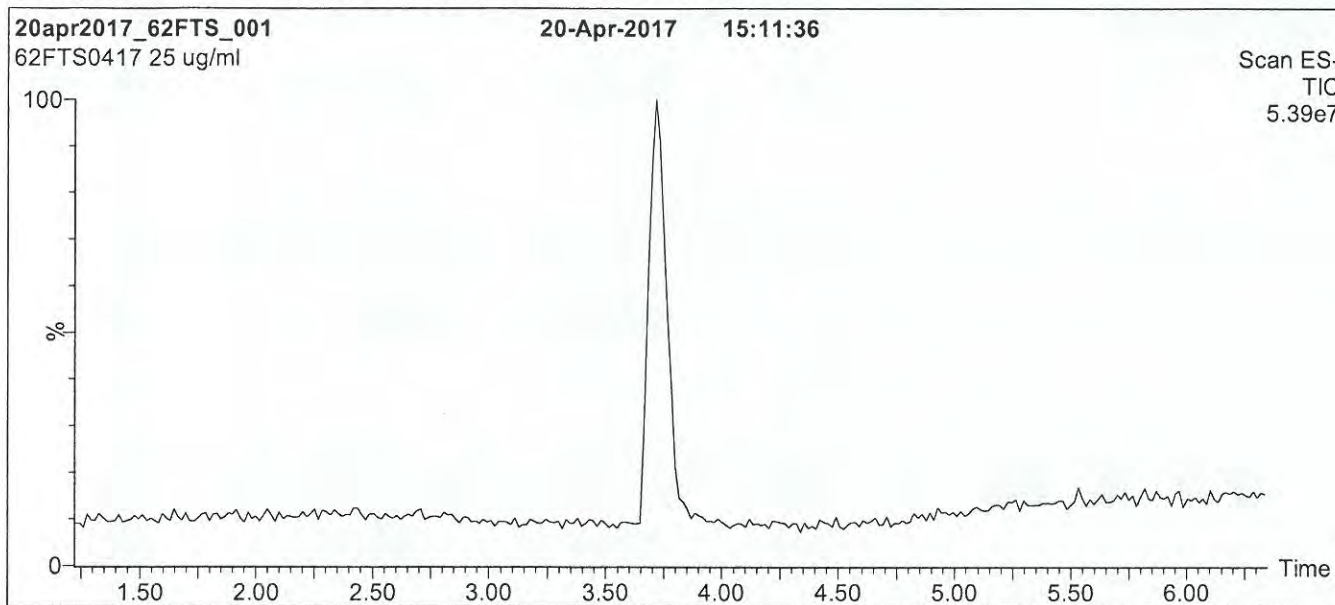
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17G1813

Figure 1: 6:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 85% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

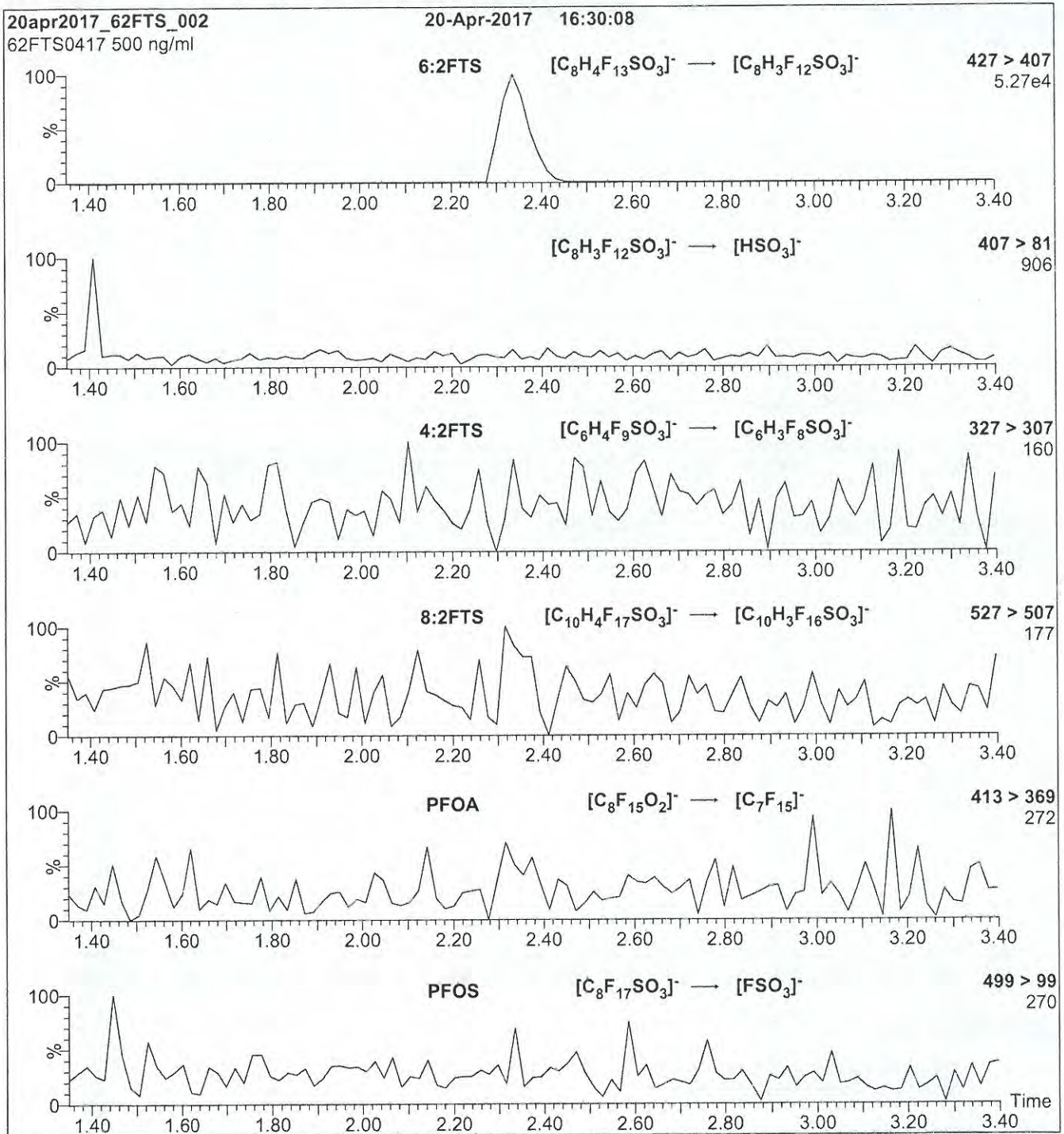
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1813

Figure 2: 6:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml 6:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 25

Analytical Standard Record

Vista Analytical Laboratory

17G2406

Description:	L-PFBS dil	Expires:	24-Jul-18
Solvent:	MeOH	Prepared:	24-Jul-17
Final Volume (mls):	0.884	Prepared By:	Isaac N. Johnson

Analyte	CAS Number	Concentration	Units
PFBS	375-73-5	25	ug/mL
L-PFBS		25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Comments	(mls)
17G1811	L-PFBS	18-Jul-17	** Vendor **	02-Dec-21		0.5

17G1811



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE:

✓
L-PFBS

LOT NUMBER:

✓
LPFBS1116

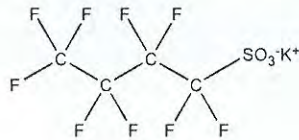
COMPOUND:

Potassium perfluoro-1-butanesulfonate

STRUCTURE:

CAS #:

29420-49-3



MOLECULAR FORMULA:

C₄F₉SO₃K

MOLECULAR WEIGHT:

338.19

CONCENTRATION:

50.0 ± 2.5 µg/ml (K salt)
44.2 ± 2.2 µg/ml (PFBS anion)

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

12/02/2016

EXPIRY DATE: (mm/dd/yyyy)

12/02/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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:

B.G. Chittim

Date: 12/05/2016

(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

17 G1811

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

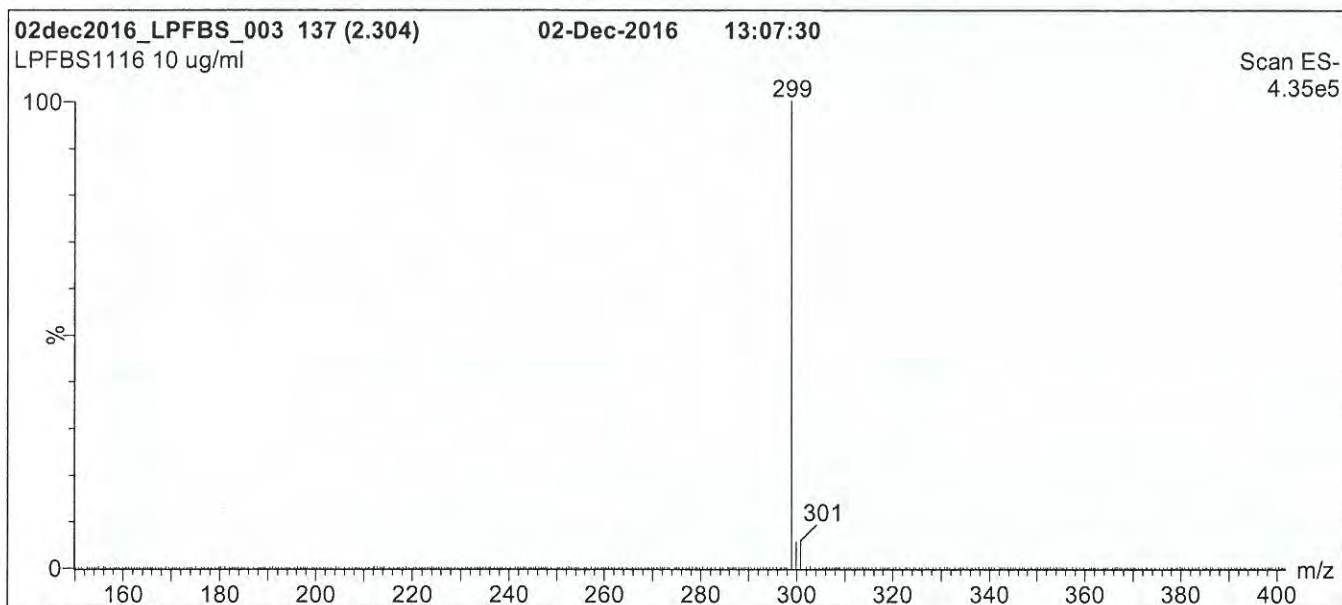
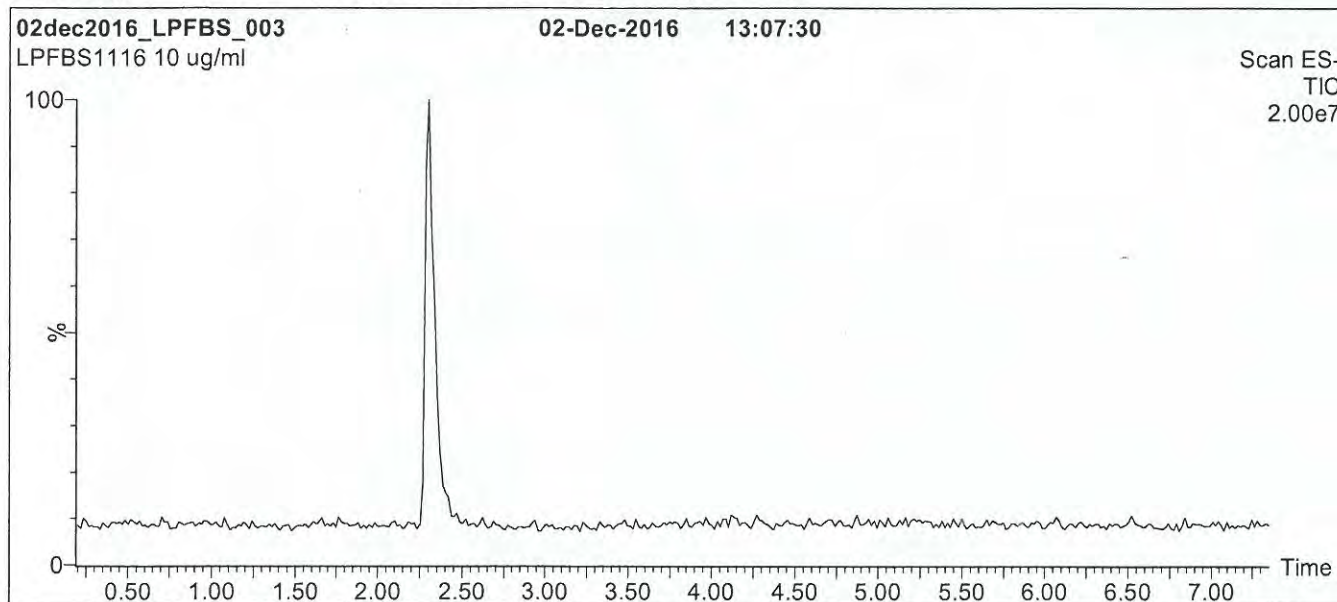
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1811

Figure 1: L-PFBS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% (80:20 MeOH:ACN) / 60% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

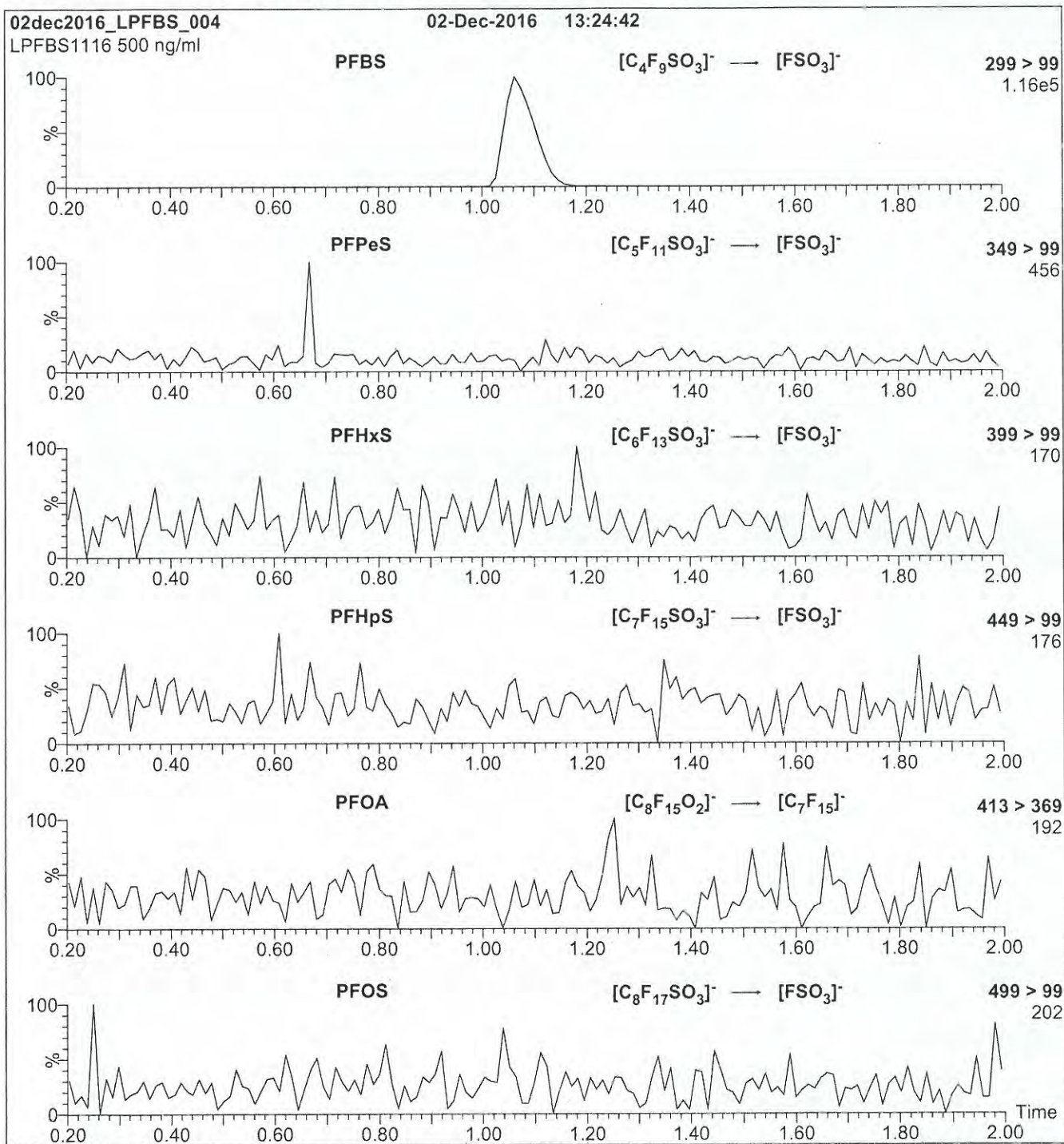
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1811

Figure 2: L-PFBS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml L-PFBS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 25

Analytical Standard Record

Vista Analytical Laboratory

17H1501

Description:	PFC - IS	Expires:	28-Feb-18
Solvent:	MeOH	Prepared:	15-Aug-17
Final Volume (mls):	20	Prepared By:	Isaac N. Johnson

Analyte	CAS Number	Concentration	Units
13C3-PFBS		1.25	ug/mL
13C2-8:2 FTS		1.25	ug/mL
13C2-PFDA		1.25	ug/mL
13C2-PFDoA		1.25	ug/mL
13C2-PFHxA		0.5	ug/mL
13C2-PFHxDA		0.5	ug/mL
13C2-PFOA		1.25	ug/mL
13C2-PFTeDA		1.25	ug/mL
13C2-6:2 FTS		1.25	ug/mL
13C3-PFBA		1.25	ug/mL
d5-EtFOSAA		1.25	ug/mL
13C3-PFPeA		1.25	ug/mL
13C4-PFHpA		1.25	ug/mL
13C5-PFNA		1.25	ug/mL
13C8-PFOS		1.25	ug/mL
13C8-PFOA		1.25	ug/mL
18O2-PFHxS		1.25	ug/mL
d3-MeFOSAA		1.25	ug/mL
13C2-PFUnA		1.25	ug/mL

Analytical Standard Record

Vista Analytical Laboratory

17H1501

Parent Standards used in this standard:						
Standard	Description	Prepared	Prepared By	Expires	Comments	(mls)
17E1716	13C2-PFHxA	17-May-17	** Vendor **	22-Nov-21		0.2
17G1303	13C3-PFPeA	13-Jul-17	** Vendor **	20-Apr-22		0.5
17G1304	13C2-PFOA	13-Jul-17	** Vendor **	12-Feb-21		0.5
17G1305	13C8-FOSA-I	13-Jul-17	** Vendor **	20-Apr-22		0.5
17G1306	13C2-PFDA	13-Jul-17	** Vendor **	30-Sep-21		0.5
17H0801	13C2-PFHxDA	08-Aug-17	** Vendor **	07-Jan-21		0.2
17H0802	d3-N-Me-FOSAA	08-Aug-17	** Vendor **	19-May-22		0.5
17H0803	d5-N-EtFOSAA	08-Aug-17	** Vendor **	22-Nov-21		0.5
17H0804	13C3-PFBA	08-Aug-17	** Vendor **	27-May-21		0.5
17H0805	13C2-8:2 FTS	08-Aug-17	** Vendor **	05-Jul-22	Na salt conc = 50.0 +/- 2.5 ug	0.522
17H0806	13C2-6:2 FTS	08-Aug-17	** Vendor **	17-Feb-22	Na salt conc = 50.0 +/- 2.5 ug	0.526
17H0807	13C5-PFNA	08-Aug-17	** Vendor **	30-Sep-21		0.5
17H0808	13C2-PFTeDA	08-Aug-17	** Vendor **	01-Mar-22		0.5
17H0809	13C2-PFUdA	08-Aug-17	** Vendor **	22-Nov-21		0.5
17H0810	13C4-PFHpA	08-Aug-17	** Vendor **	03-May-22		0.5
17H0811	13C2-PFDoA	08-Aug-17	** Vendor **	23-May-22		0.5
17H0831	18O2-PFHxS	08-Aug-17	** Vendor **	17-Feb-22	Na salt conc = 50.0 +/- 2.5 ug	0.529
17H0832	13C8-PFOS	08-Aug-17	** Vendor **	30-Sep-21	Na salt conc = 48.5 +/- 2.4 ug	0.539
17H0833	13C3-PFBS	08-Aug-17	** Vendor **	24-May-22	Na salt conc = 50.0 +/- 2.5 ug	0.538

✓ 17E1716



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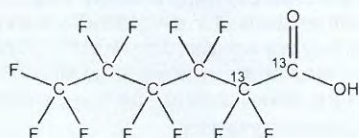
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: MPFHxA
COMPOUND: Perfluoro-n-[1,2-¹³C₂]hexanoic acid

LOT NUMBER: MPFHxA1116

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: ¹³C₂¹²C₄HF₁₁O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 316.04
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%

ISOTOPIC PURITY: ≥99%¹³C
(1,2-¹³C₂)

LAST TESTED: (mm/dd/yyyy) 11/22/2016

EXPIRY DATE: (mm/dd/yyyy) 11/22/2021

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

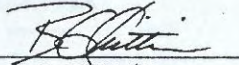
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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 < 0.1% of perfluoro-n-hexanoic acid and ~ 0.3% of perfluoro-n-octanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim

Date: 12/13/2016
(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

17G1303


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION
PRODUCT CODE:

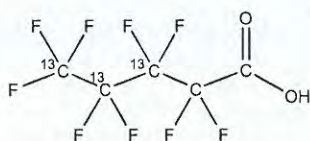
M3PFPeA

LOT NUMBER:

M3PFPeA0417

COMPOUND:Perfluoro-n-[3,4,5-¹³C₃]pentanoic acid**STRUCTURE:****CAS #:**

Not available

**MOLECULAR FORMULA:** $^{13}\text{C}_3^{12}\text{C}_2\text{HF}_9\text{O}_2$ **MOLECULAR WEIGHT:**

267.02

CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):**

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

ISOTOPIC PURITY: $\geq 99\%$ ¹³C(3,4,5-¹³C₃)**LAST TESTED:** (mm/dd/yyyy)

04/20/2017

EXPIRY DATE: (mm/dd/yyyy)

04/20/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 ~ 0.95% of perfluoro-n-[¹³C₃]butanoic acid and 0.05% of perfluoro-1-pentanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim, General Manager

Date: 04/24/2017

(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

17G1303

INTENDED USE:

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HAZARDS:

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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/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, \dots, 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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TRACEABILITY:

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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:

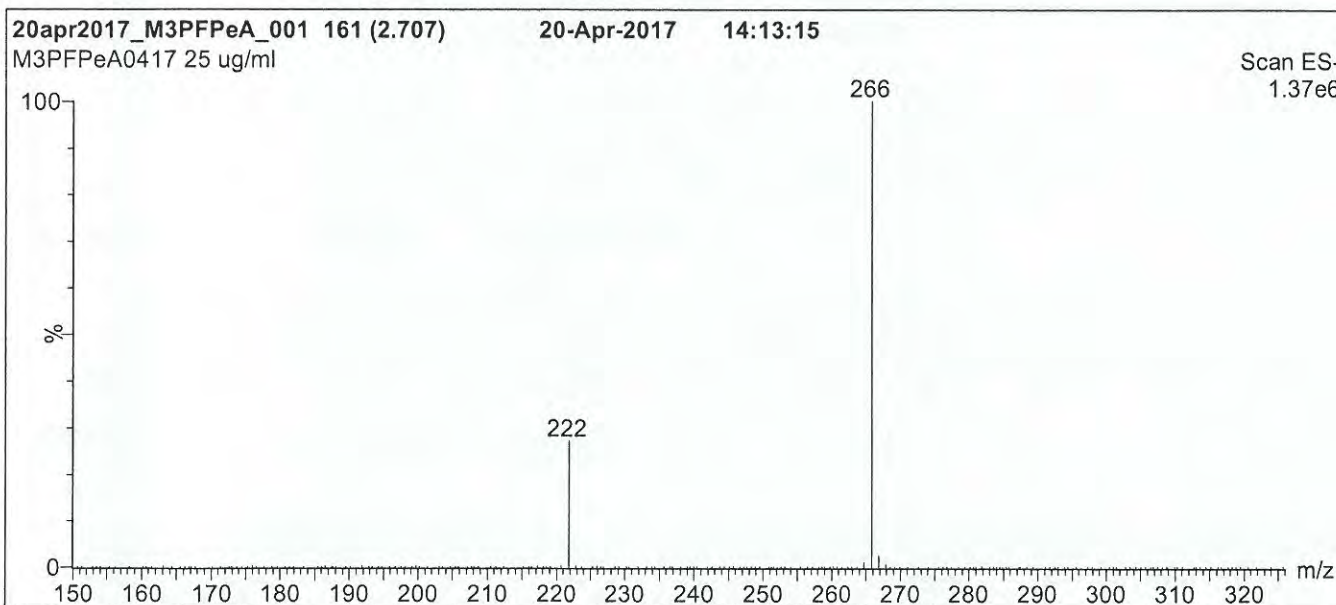
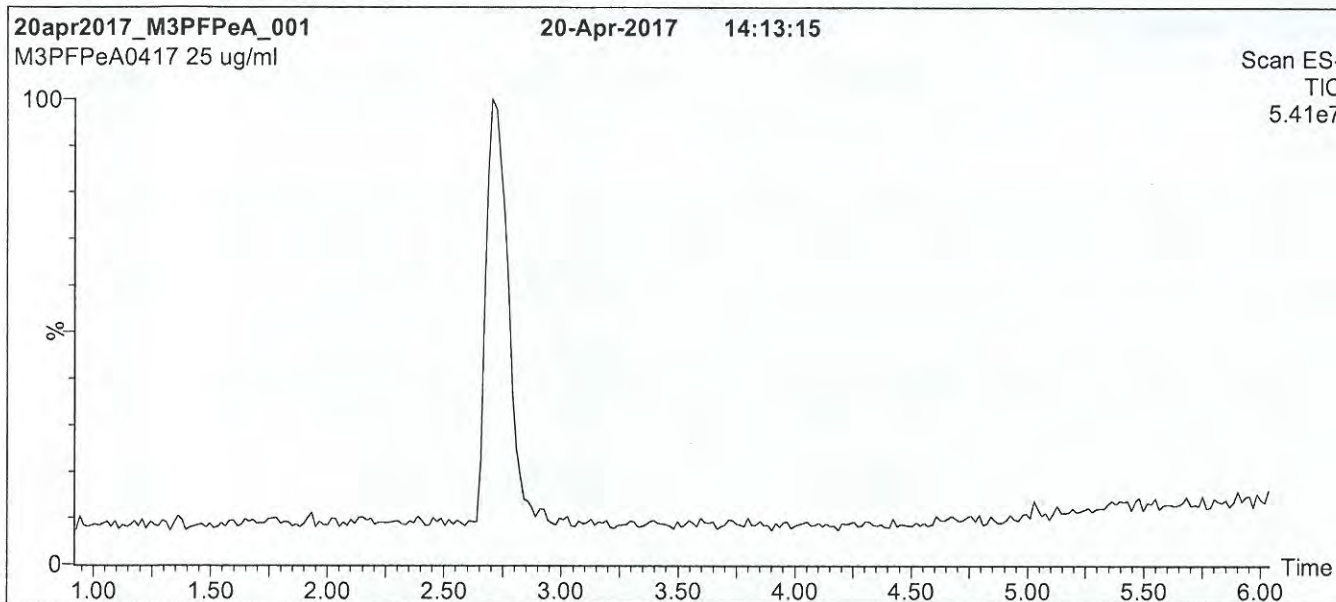
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1303

Figure 1: M3PFPeA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% (80:20 MeOH:ACN) / 60% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for
2 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

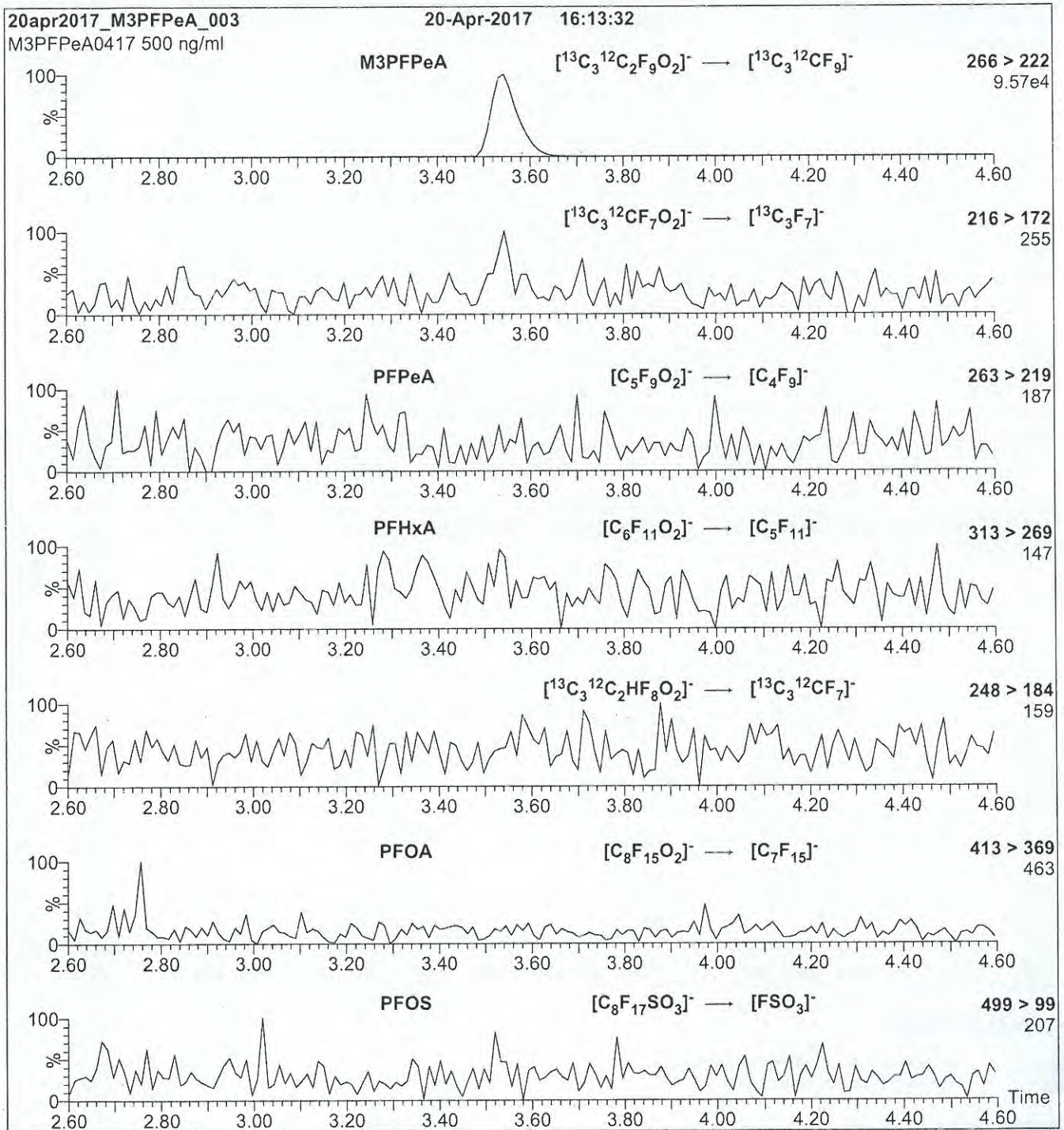
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17G1303

Figure 2: M3PFPeA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M3PFPeA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 9

17G1304



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

✓
M2PFOA

LOT NUMBER:

✓
M2PFOA0216

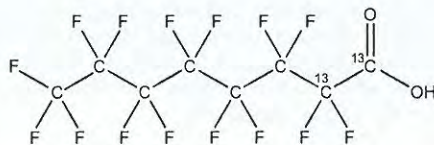
COMPOUND:

Perfluoro-n-[1,2-¹³C₂]octanoic acid

STRUCTURE:

CAS #:

Not available



MOLECULAR FORMULA:

¹³C₂¹²C₆HF₁₅O₂

MOLECULAR WEIGHT:

416.05

CONCENTRATION:

50 ± 2.5 µg/ml

SOLVENT(S):

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

ISOTOPIC PURITY:

≥99%¹³C

LAST TESTED: (mm/dd/yyyy)

02/12/2016

(1,2-¹³C₂)

EXPIRY DATE: (mm/dd/yyyy)

02/12/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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

Date: 02/24/2016

(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

17G1304

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.

HAZARDS:

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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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 $\pm 5\%$ (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.

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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:

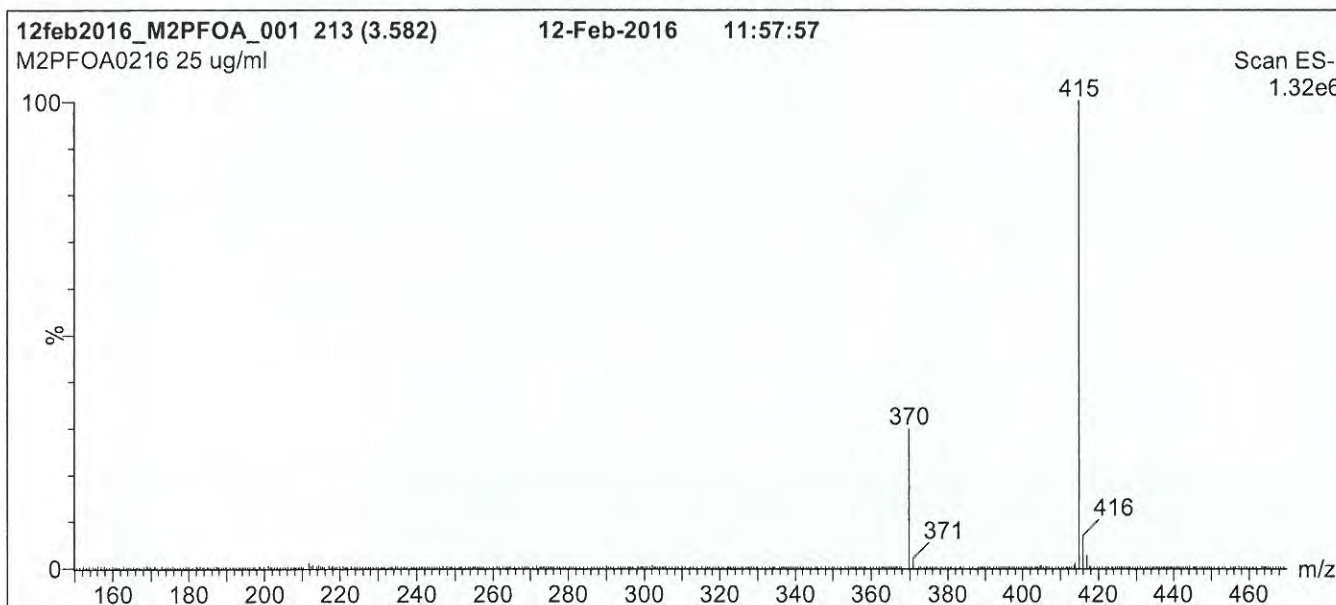
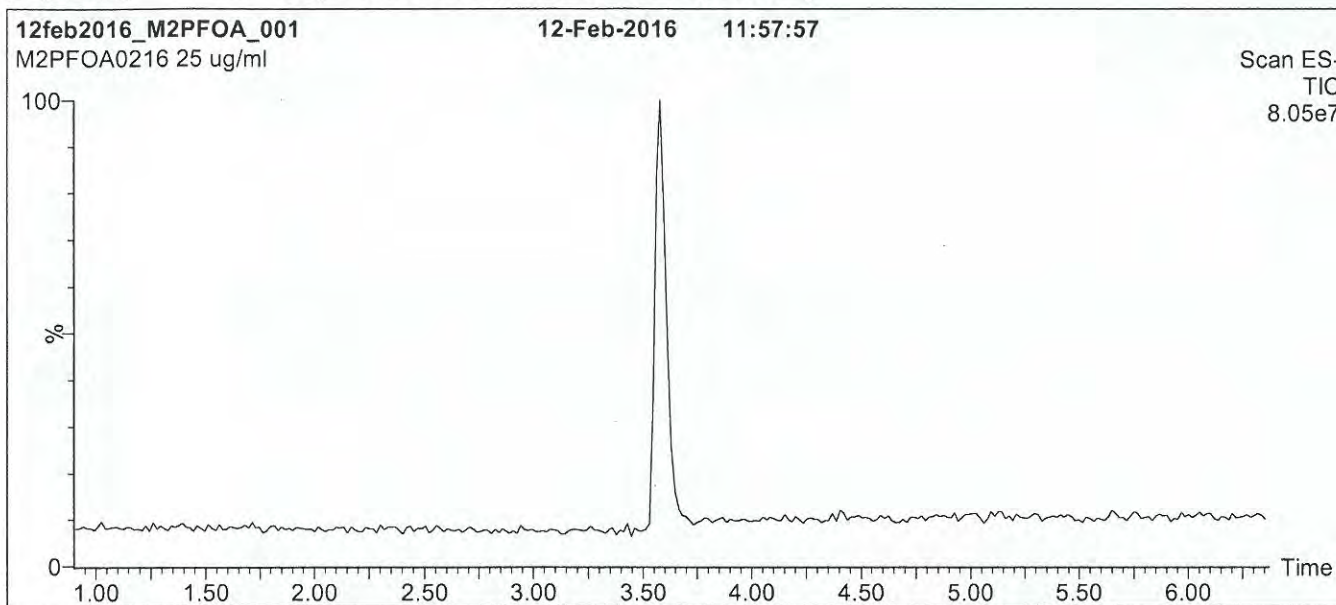
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1304

Figure 1: M2PFOA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

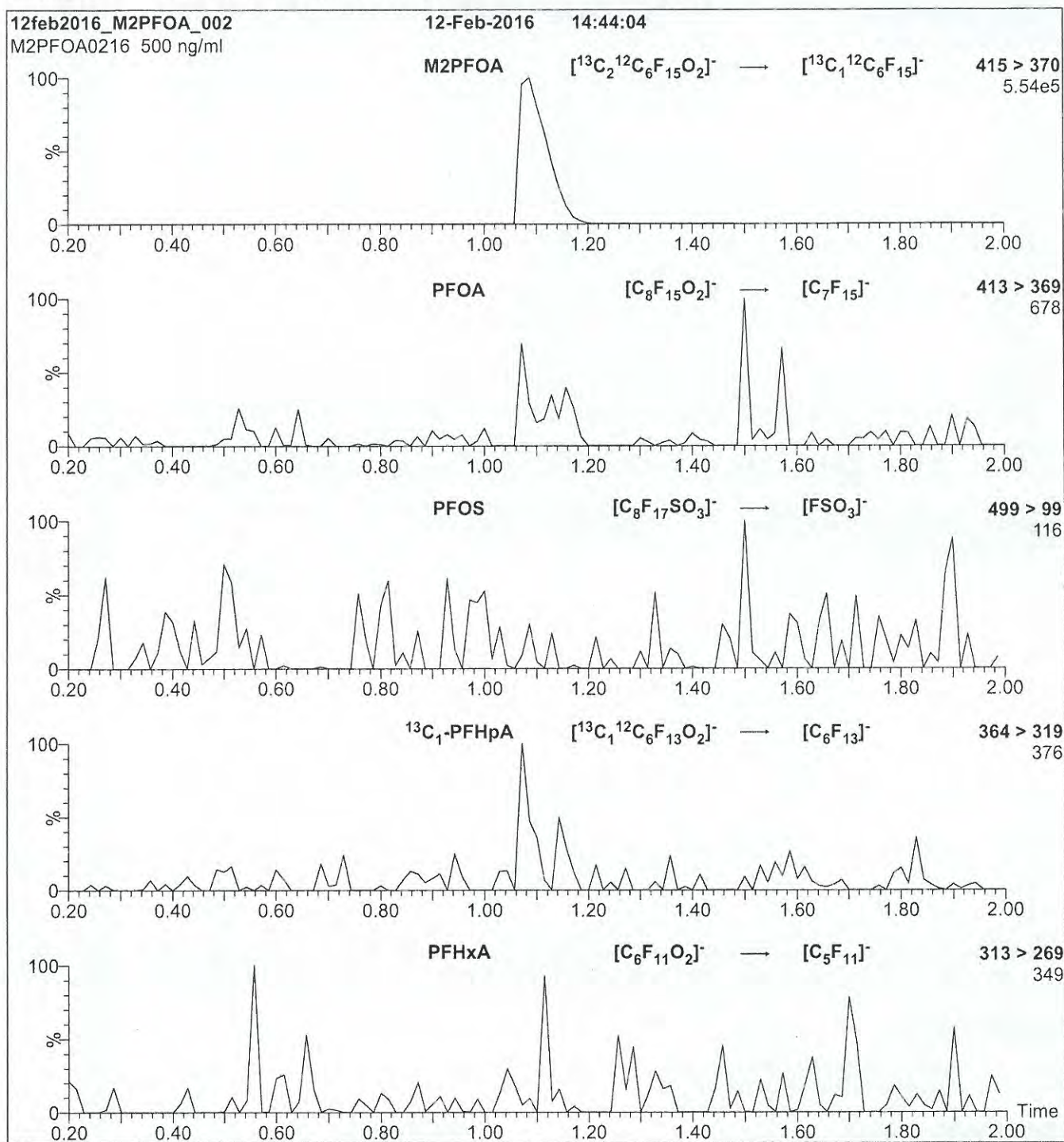
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1304

Figure 2: M2PFOA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2PFOA)

Mobile phase: Isocratic 80% MeOH / 20% H₂O

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 10

17G1305


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 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION
PRODUCT CODE:

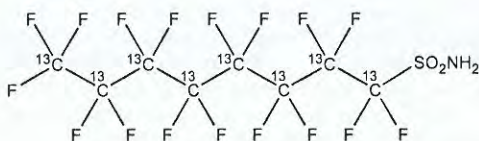
M8FOSA-I ✓

LOT NUMBER:

M8FOSA04171 ✓

COMPOUND:Perfluoro-1-[¹³C₈]octanesulfonamide**STRUCTURE:****CAS #:**

Not available

**MOLECULAR FORMULA:**¹³C₈H₂F₁₇NO₂S**MOLECULAR WEIGHT:**

507.09

CONCENTRATION:

50 ± 2.5 µg/ml

SOLVENT(S):

Isopropanol

CHEMICAL PURITY:

>98%

ISOTOPIC PURITY:≥99% ¹³C**LAST TESTED:** (mm/dd/yyyy)

04/20/2017

(¹³C₈)**EXPIRY DATE:** (mm/dd/yyyy)

04/20/2022

RECOMMENDED STORAGE:

Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

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

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 1.1% of perfluoro-1-[¹³C₄]octanesulfonamide and ~ 0.01% of perfluoro-1-[¹³C₇]heptanesulfonamide.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim, General Manager

Date:

 05/04/2017
 (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

17G1305

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

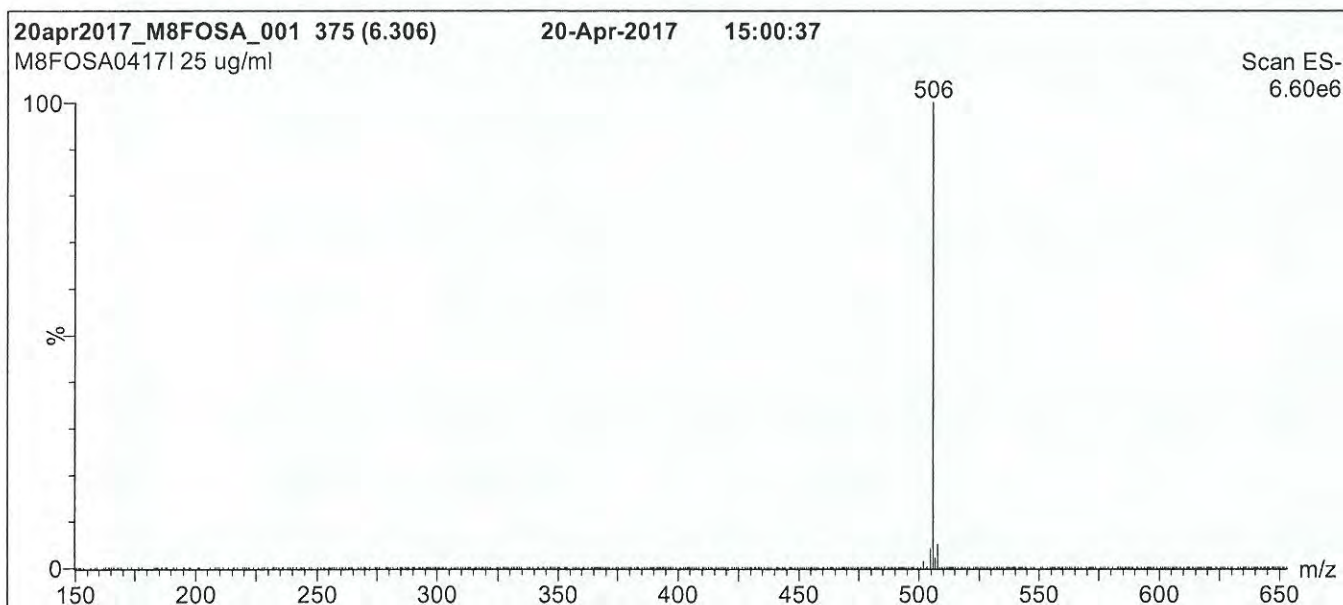
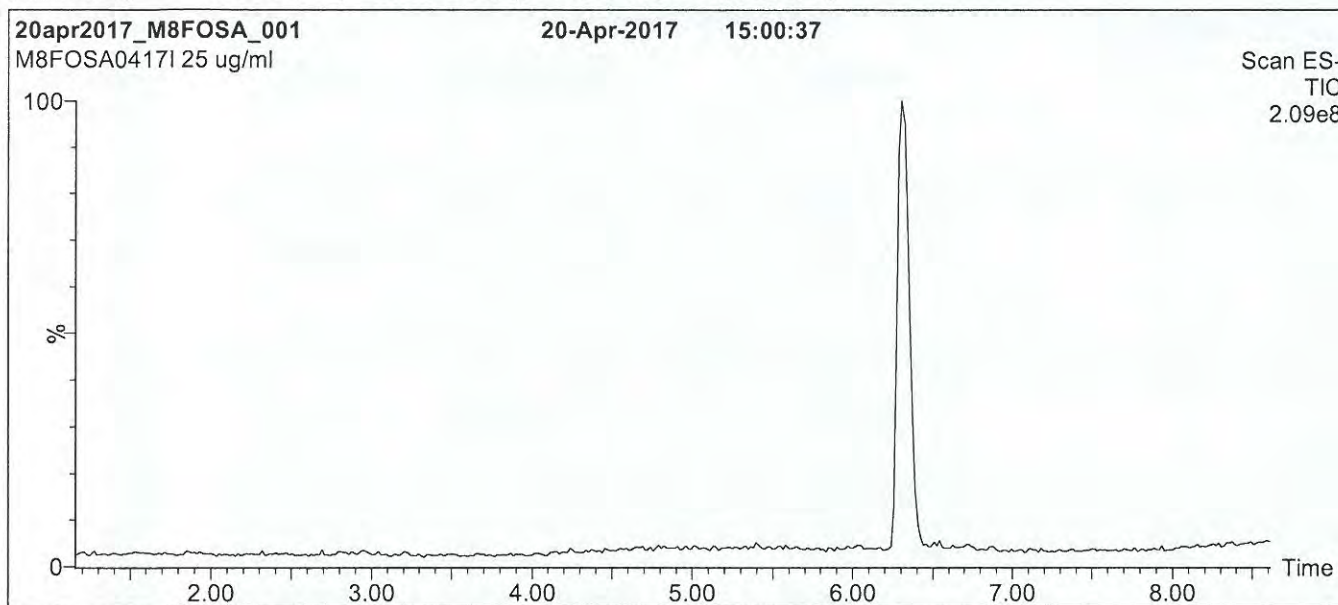
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17 17G1305

Figure 1: M8FOSA-I; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 85% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

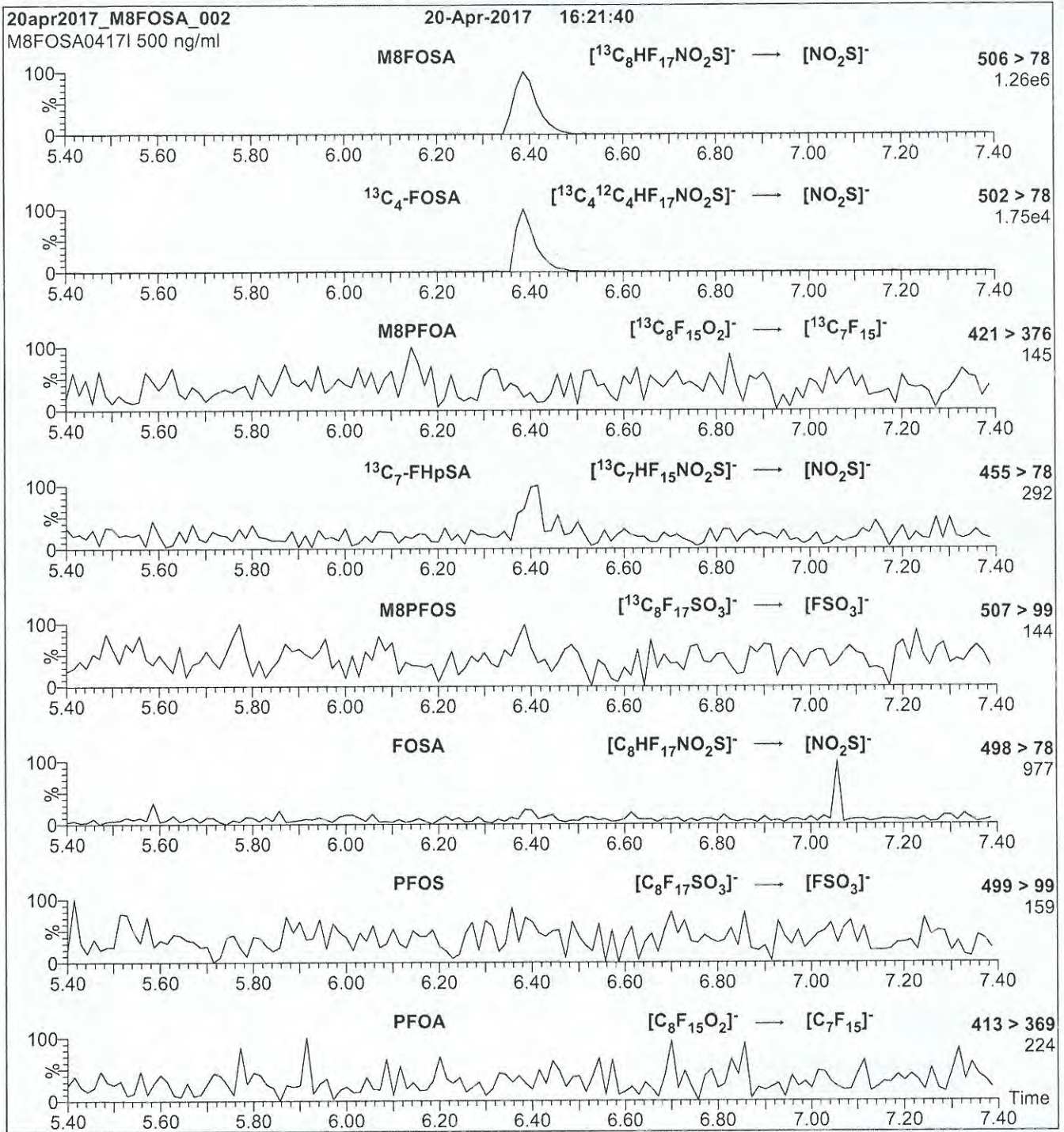
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1305

Figure 2: M8FOSA-I; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M8FOSA-I)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.17e-3
Collision Energy (eV) = 30

17G1306



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE:

MPFDA

LOT NUMBER:

MPFDA0916

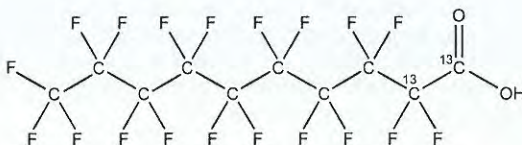
COMPOUND:

Perfluoro-n-[1,2-¹³C₂]decanoic acid

STRUCTURE:

CAS #:

Not available



MOLECULAR FORMULA:

¹³C₂¹²C₈HF₁₉O₂

MOLECULAR WEIGHT:

516.07

CONCENTRATION:

50 ± 2.5 µg/ml

SOLVENT(S):

Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

ISOTOPIC PURITY:

≥99% ¹³C
(1,2-¹³C₂)

LAST TESTED: (mm/dd/yyyy)

09/30/2016

EXPIRY DATE: (mm/dd/yyyy)

09/30/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 < 0.1% of ¹³C₁-PFNA.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 10/07/2016

(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

17G1306

INTENDED USE:

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HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

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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:

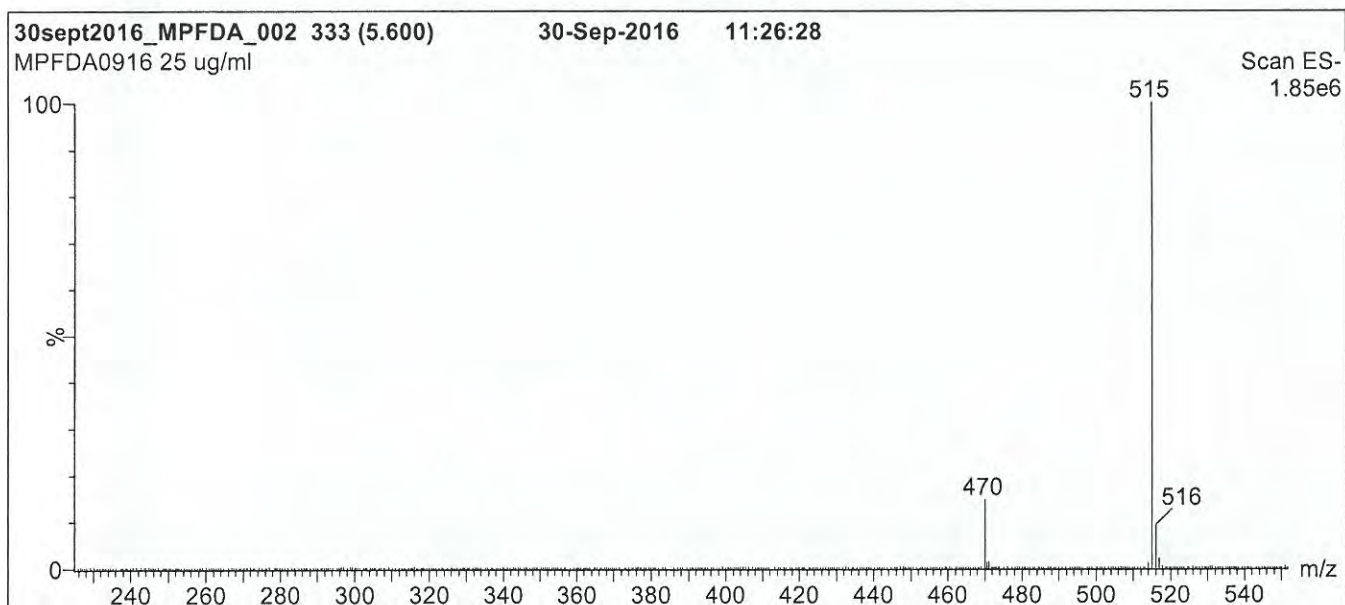
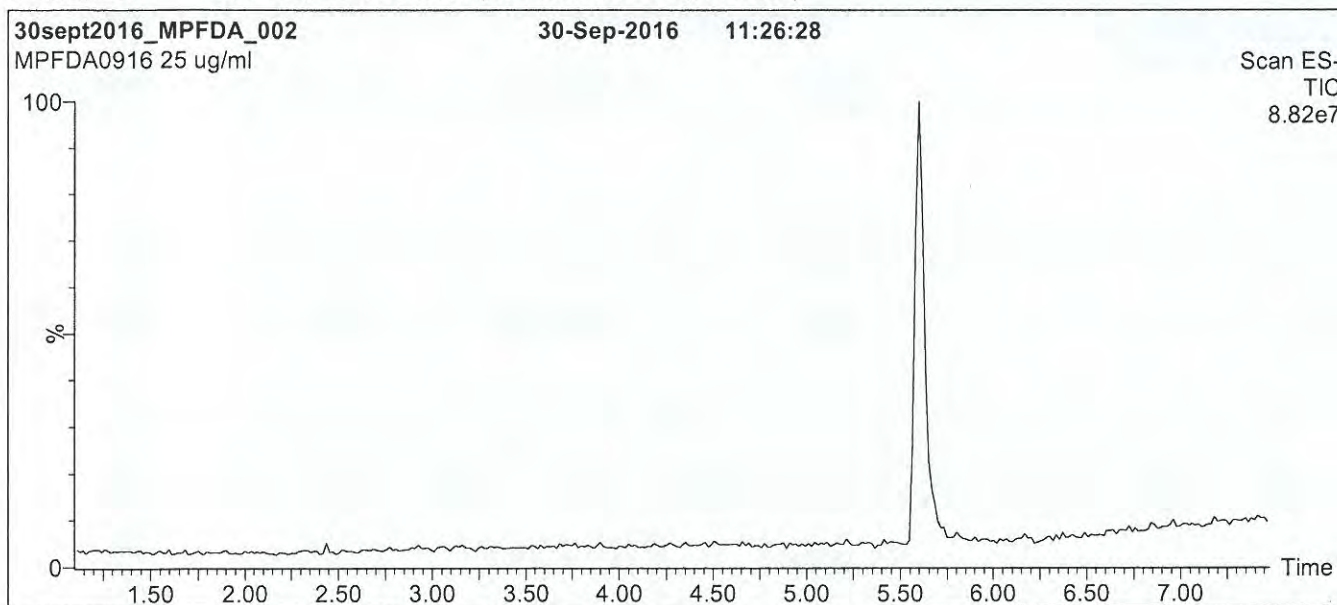
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1306

Figure 1: MPFDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

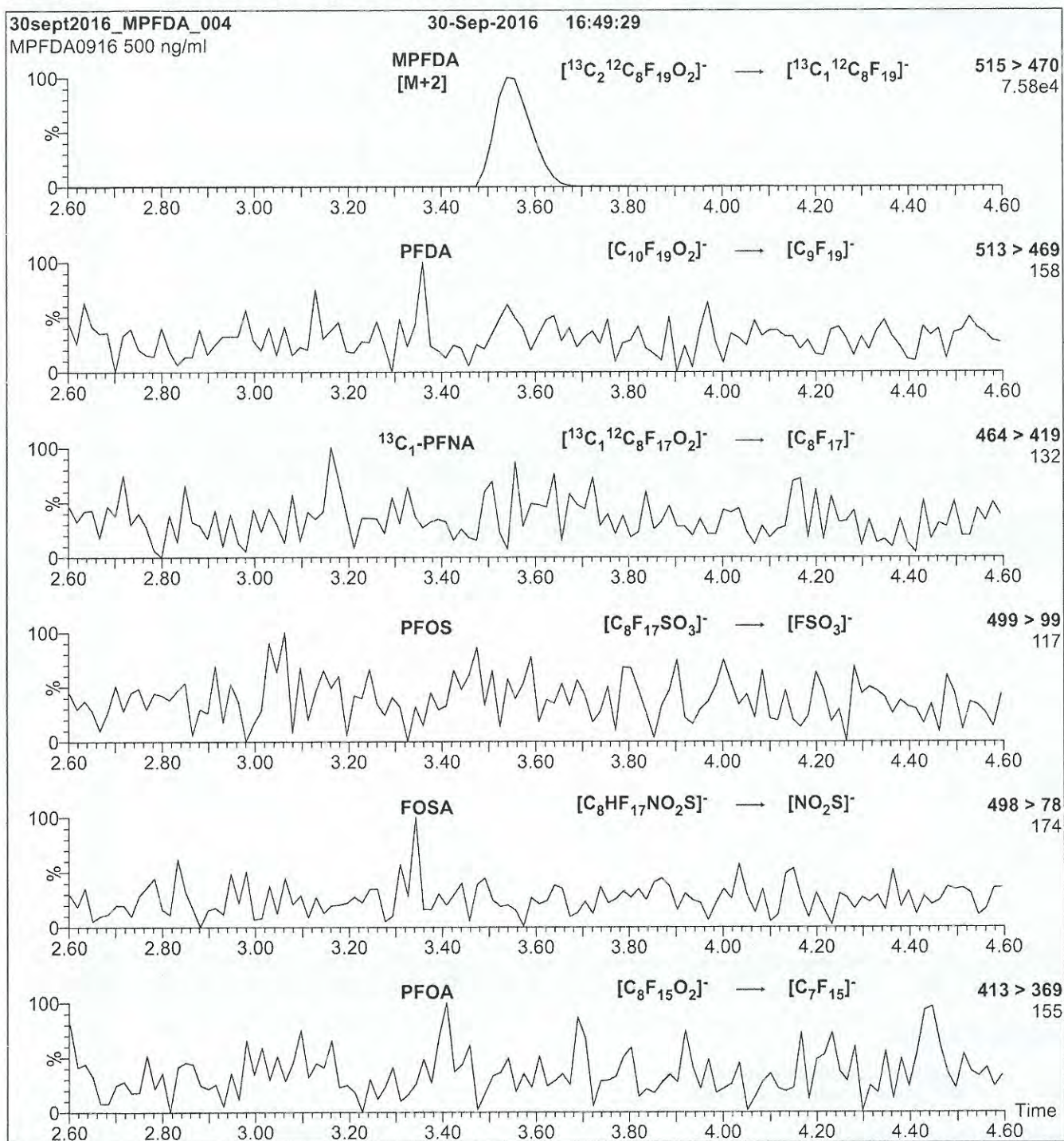
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1306

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml MPFDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 13

17-H0801

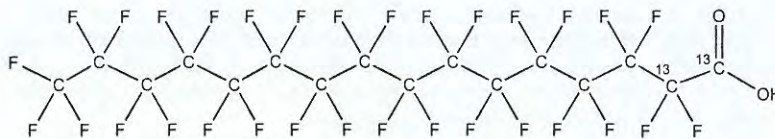


WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M2PFHxDA ✓ **LOT NUMBER:** M2PFHxDA1112
COMPOUND: Perfluoro-n-[1,2-¹³C₂]hexadecanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₄HF₃₁O₂ **MOLECULAR WEIGHT:** 816.11
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 01/07/2016 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 01/07/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place


DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 native perfluoro-n-hexadecanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim **Date:** 01/11/2016
(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.

HAZARDS:

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/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.

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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 $\pm 5\%$ (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:

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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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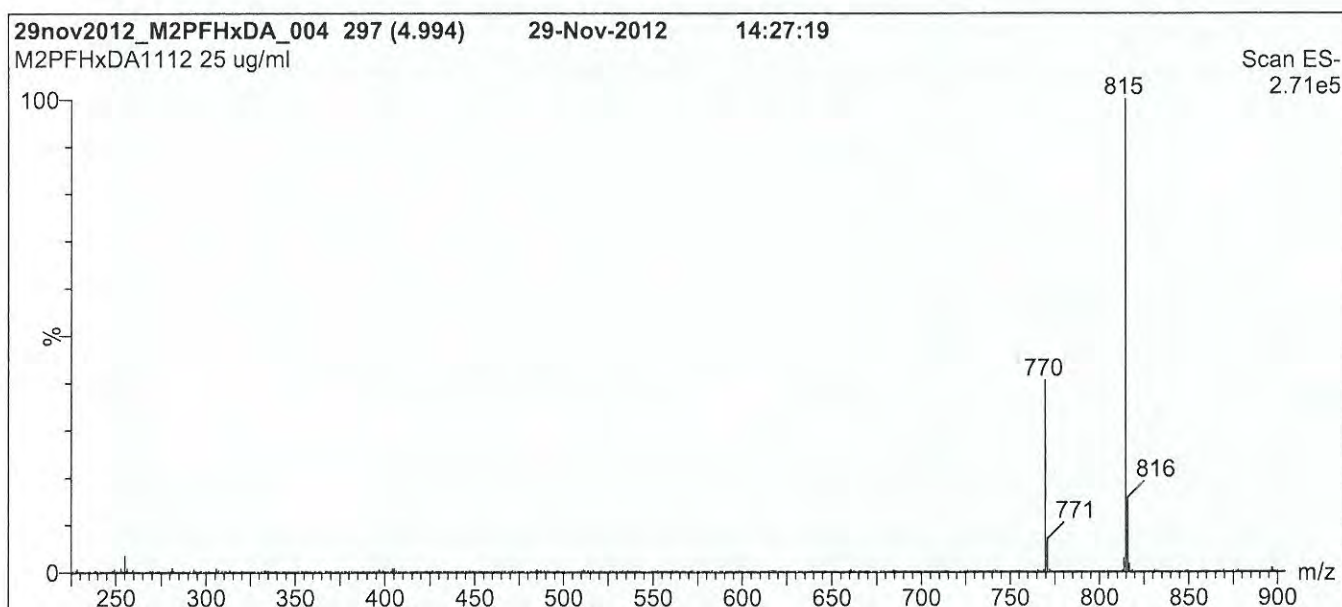
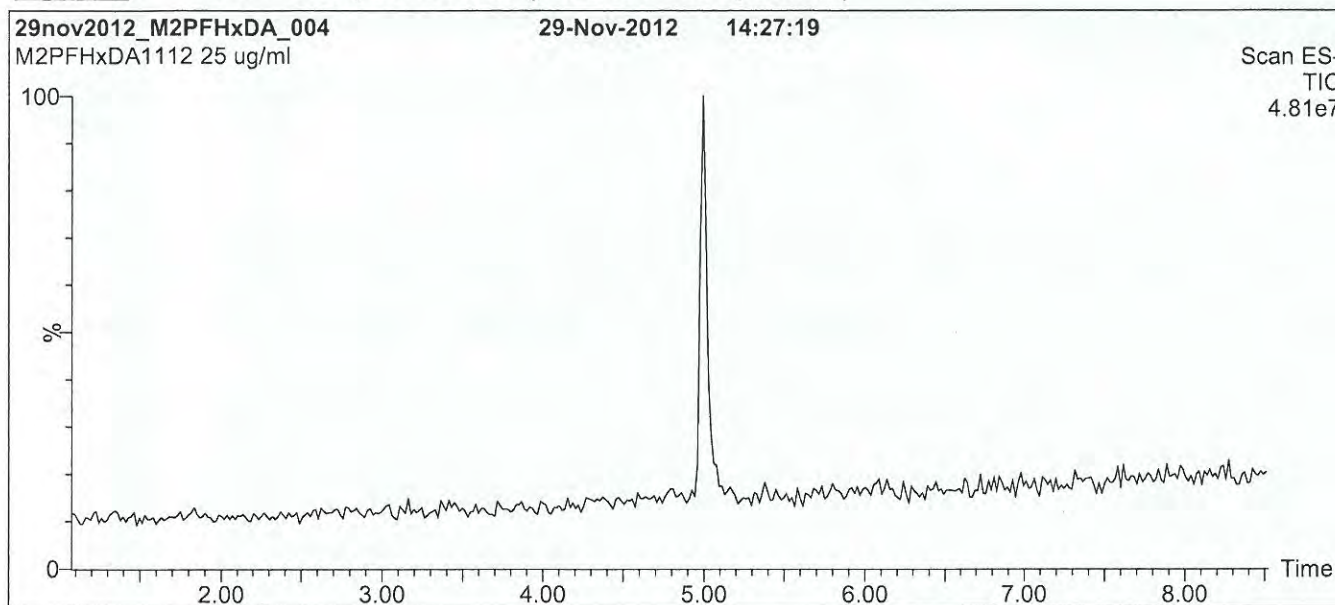
QUALITY MANAGEMENT:

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Figure 1: M2PFHxDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 100% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

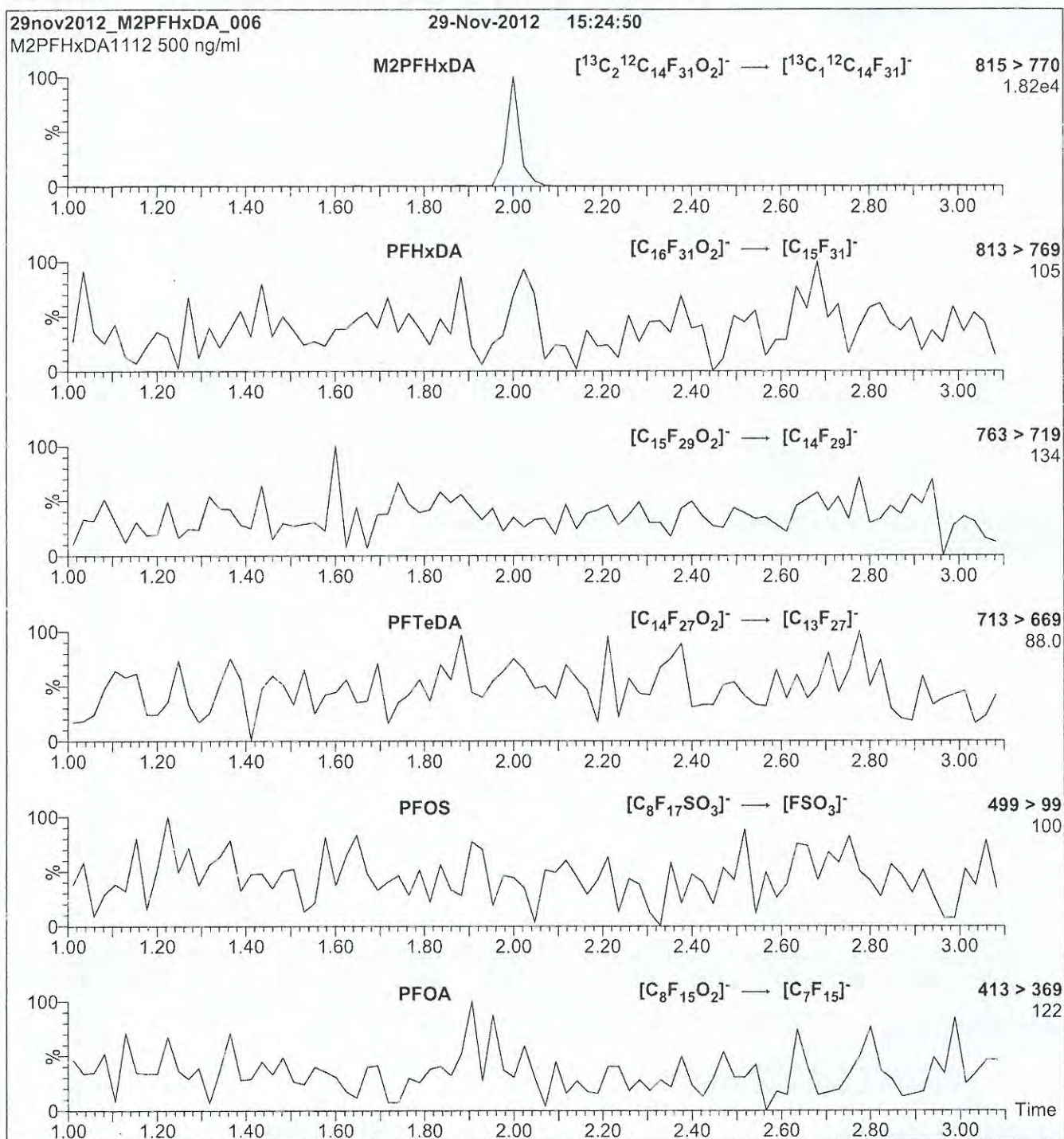
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 1200 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

Figure 2: M2PFHxDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2PFHxDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 15

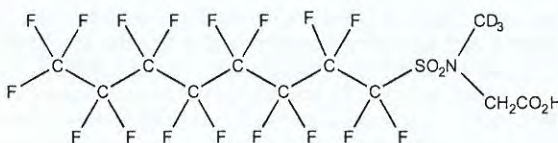
1740802


WELLINGTON
 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: d3-N-MeFOSAA ✓ **LOT NUMBER:** d3NMeFOSAA0517
COMPOUND: N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₁₁D₃H₃F₁₇NO₄S **MOLECULAR WEIGHT:** 574.23
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥98% ²H₃
LAST TESTED: (mm/dd/yyyy) 05/19/2017
EXPIRY DATE: (mm/dd/yyyy) 05/19/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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: _____

B.G. Chittim, General Manager

Date: 05/31/2017
 (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:

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HAZARDS:

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LIMITED WARRANTY:

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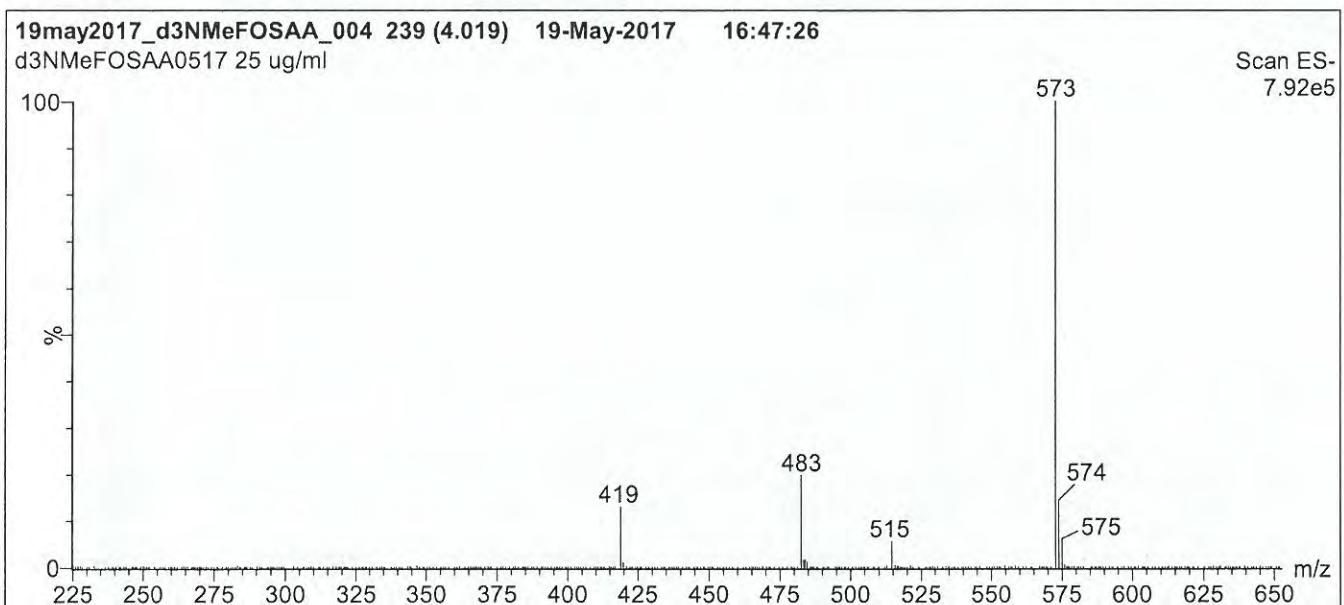
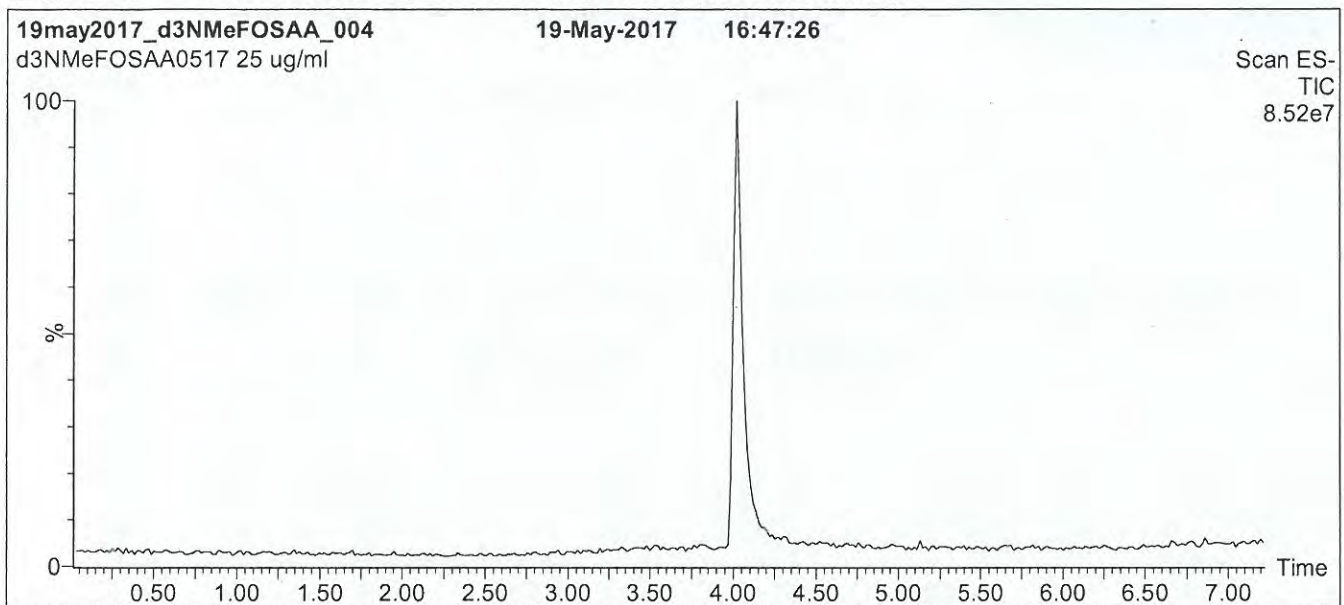
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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 (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 60% (80:20 MeOH:ACN) / 40% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for 1.5 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

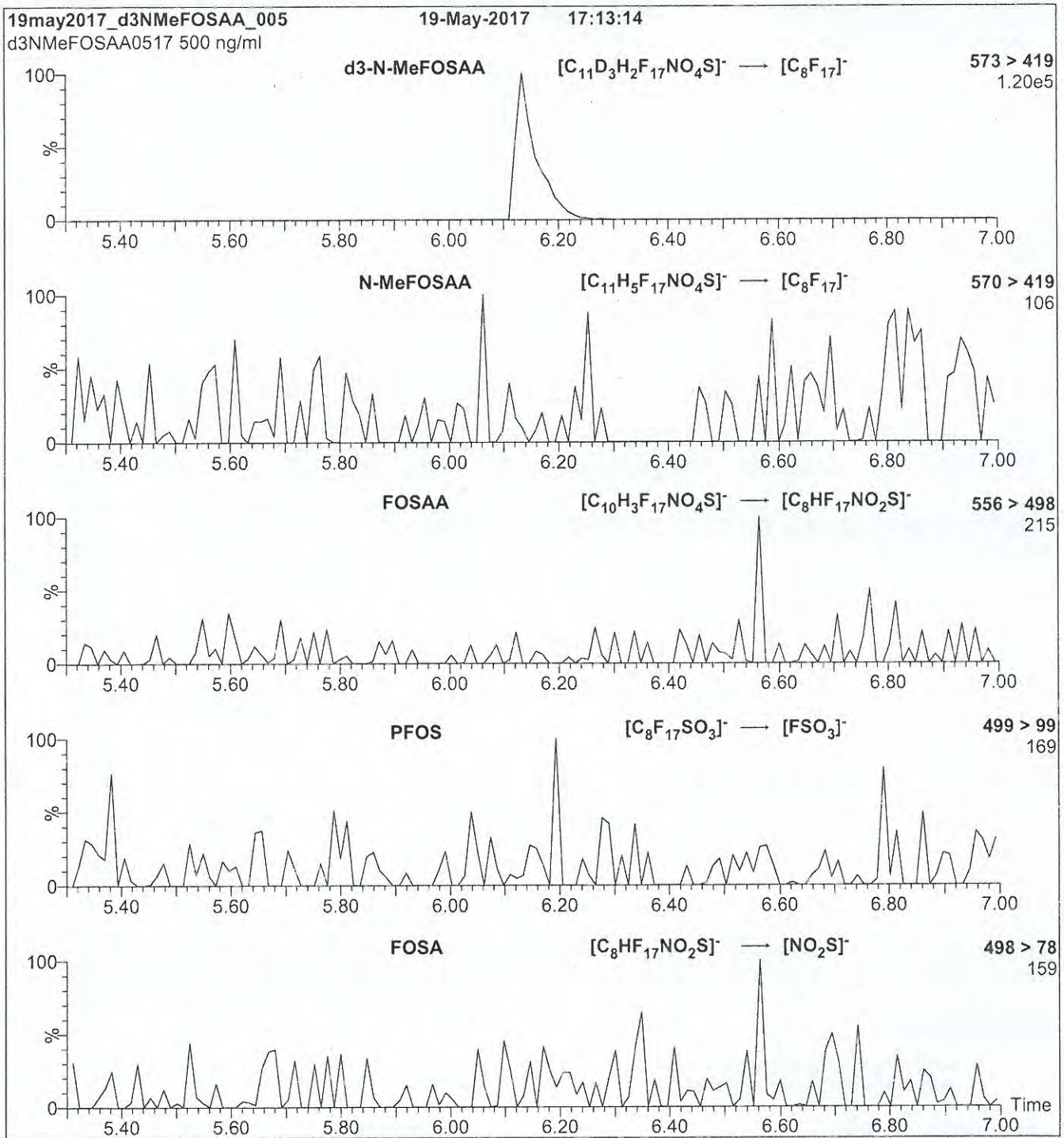
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 35.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

Figure 2: d3-N-MeFOSAA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml d3-N-MeFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 20

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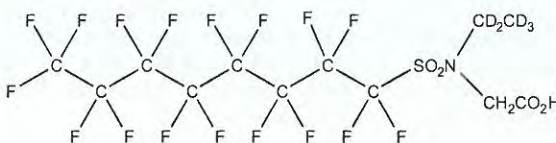


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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: d5-N-EtFOSAA ✓ **LOT NUMBER:** d5NEtFOSAA1116
COMPOUND: N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₁₂D₅H₃F₁₇NO₄S **MOLECULAR WEIGHT:** 590.26
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥98% ²H₅
LAST TESTED: (mm/dd/yyyy) 11/22/2016
EXPIRY DATE: (mm/dd/yyyy) 11/22/2021
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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: 
B.G. Chittim **Date:** 12/01/2016
(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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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.

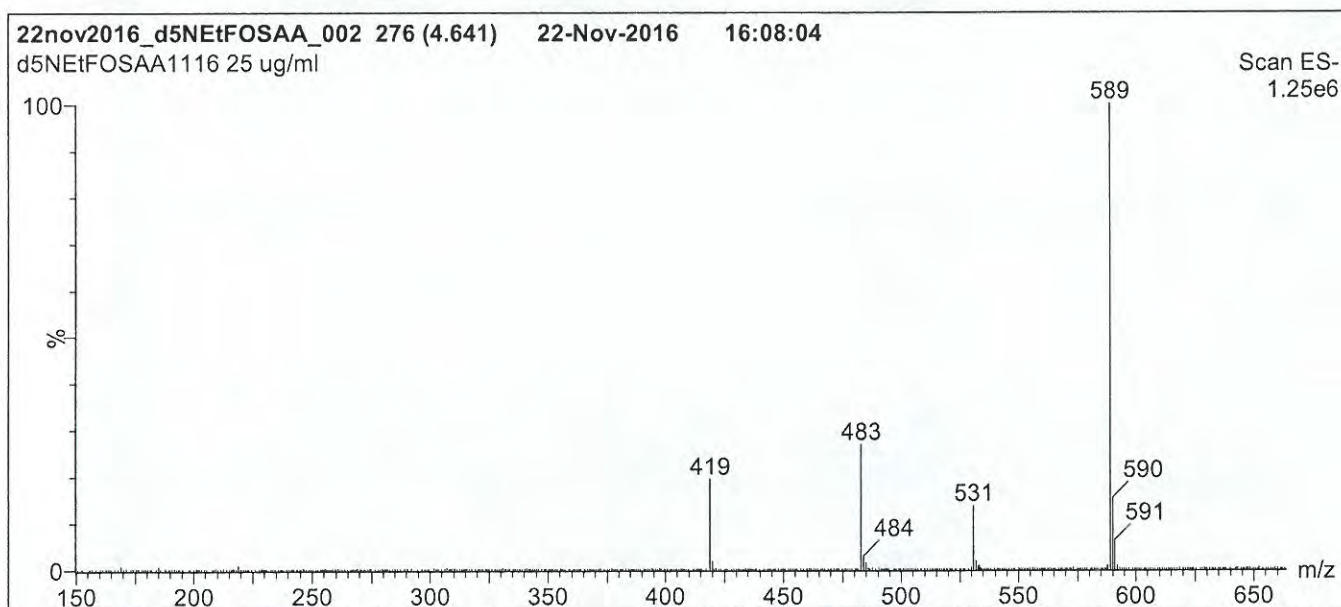
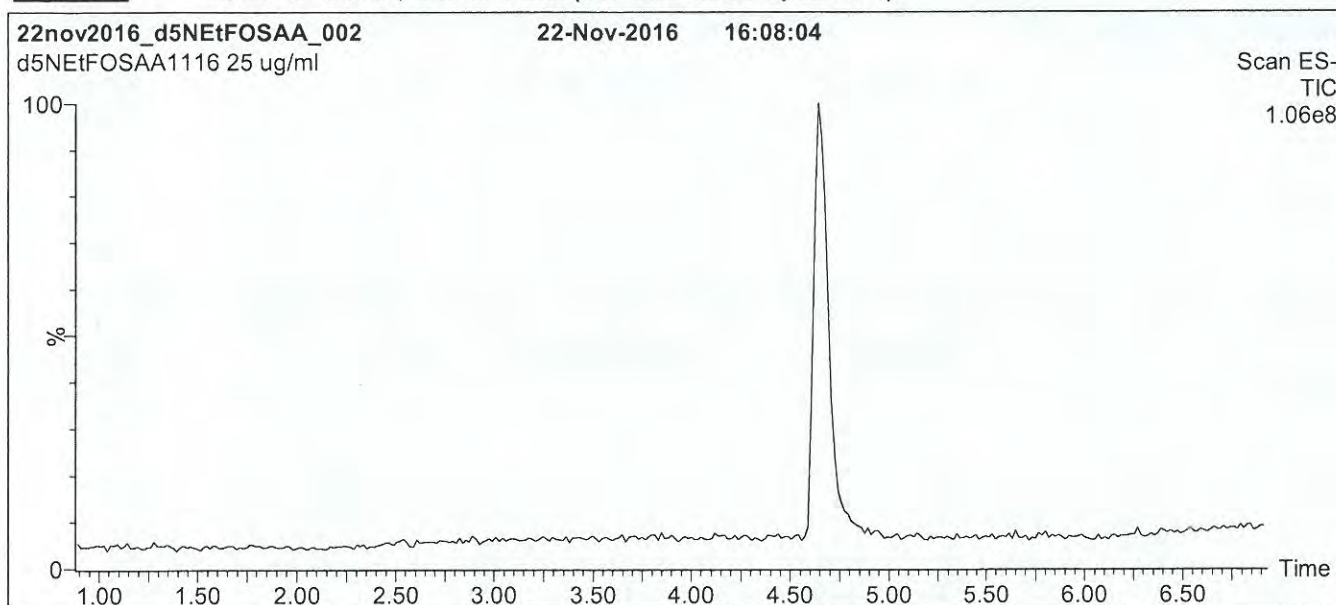
QUALITY MANAGEMENT:

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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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Figure 1: d5-N-EtFOSAA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

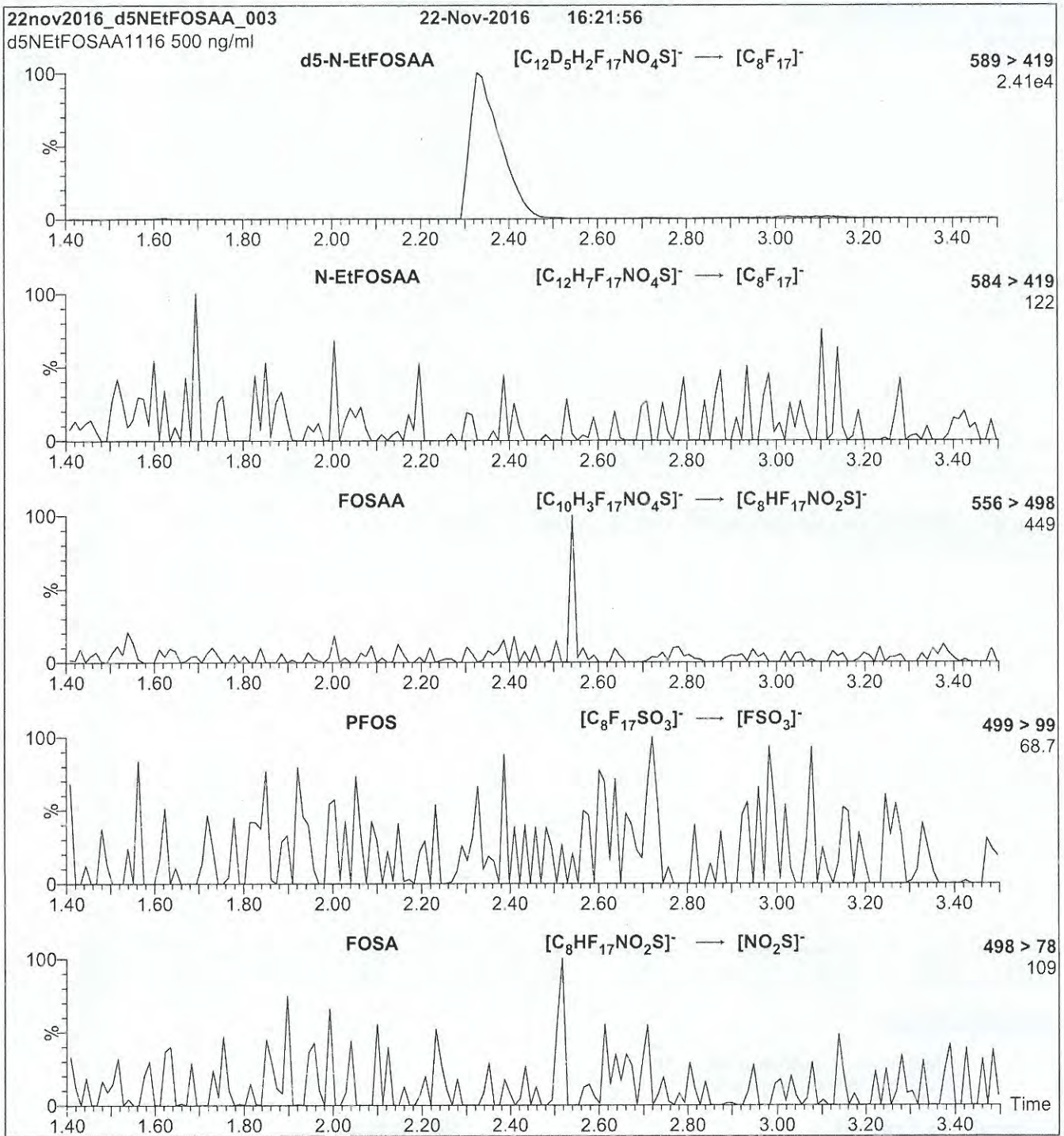
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

Figure 2: d5-N-EtFOSAA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml d5-N-EtFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

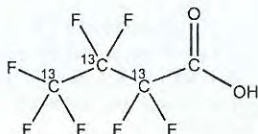
Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 20

17H0804


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: M3PFBA ✓ **LOT NUMBER:** M3PFBA0516
COMPOUND: Perfluoro-n-[2,3,4-¹³C₃]butanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²CHF₇O₂ **MOLECULAR WEIGHT:** 217.02
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (2,3,4-¹³C₃)
LAST TESTED: (mm/dd/yyyy) 05/27/2016
EXPIRY DATE: (mm/dd/yyyy) 05/27/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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-[¹³C₃]propanoic acid and also contains ~ 1.0% of perfluoro-n-[1,2,3,4-¹³C₄]butanoic acid due to the naturally occurring isotopic abundance of ¹³C in the unlabelled carbon atom.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE
Certified By:

 B.G. Chittim

Date: 07/08/2016

(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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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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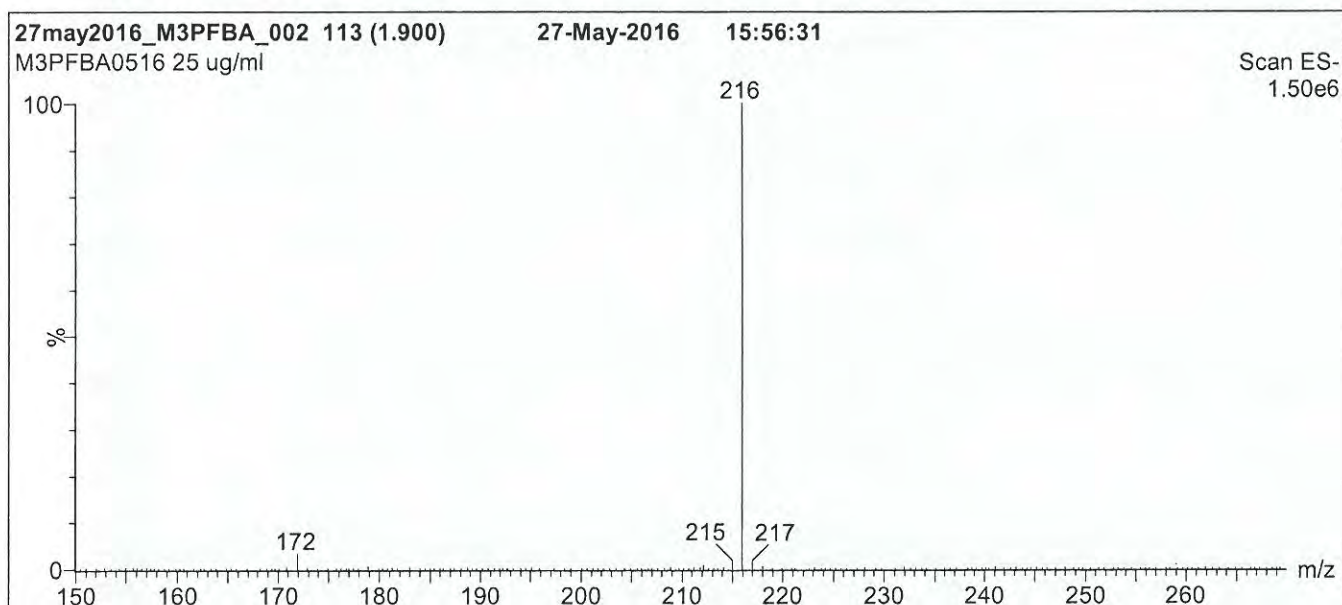
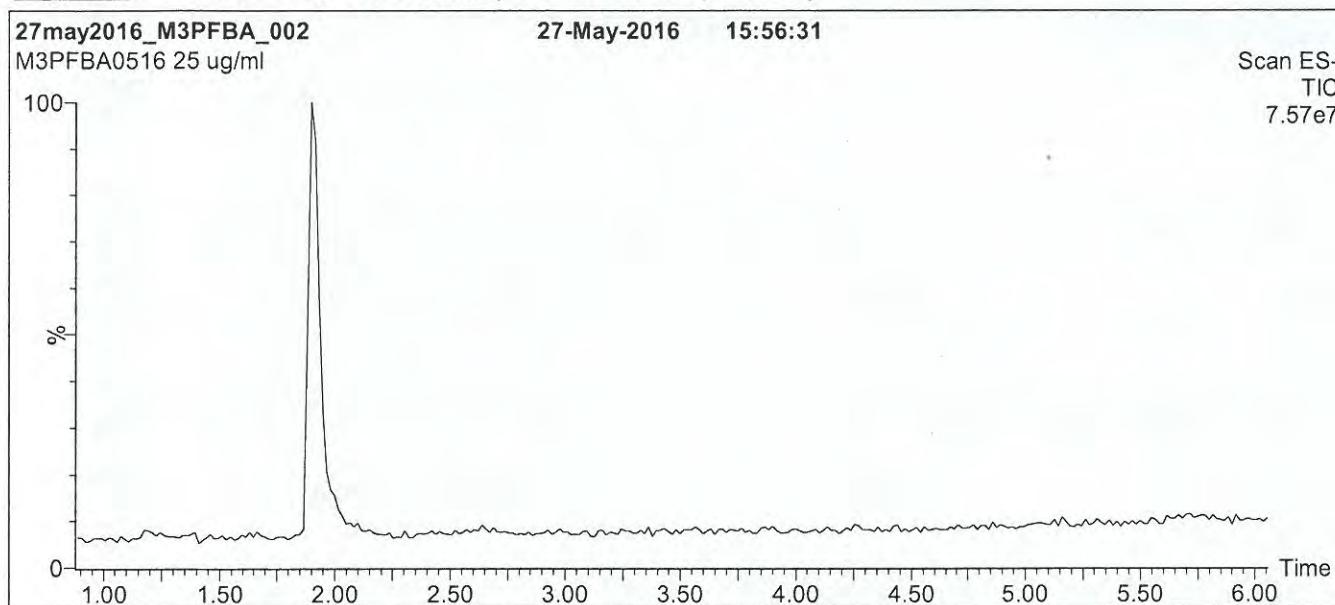
QUALITY MANAGEMENT:

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Figure 1: M3PFBA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

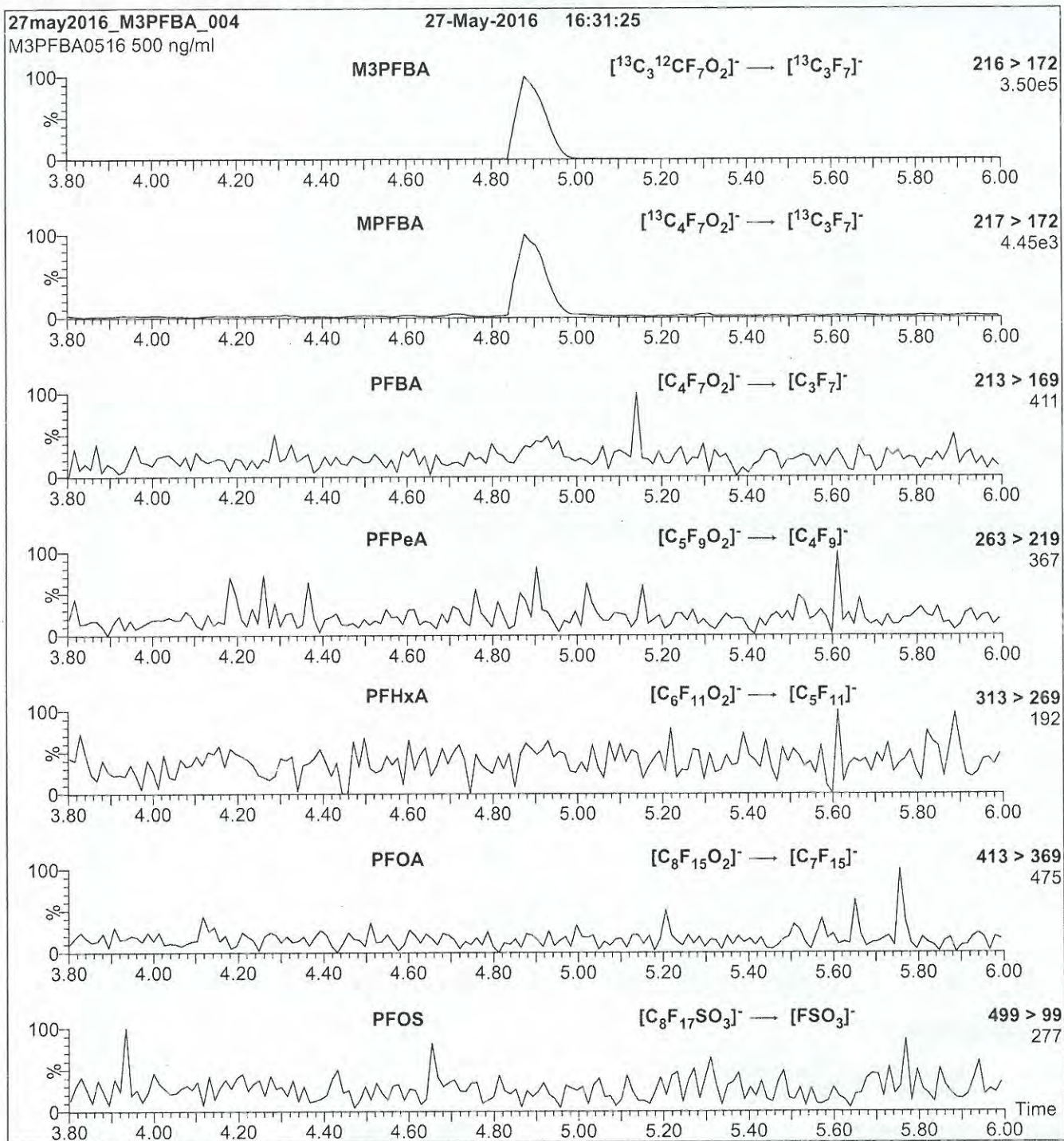
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

Figure 2: M3PFBA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M3PFBA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.62e-3
Collision Energy (eV) = 10

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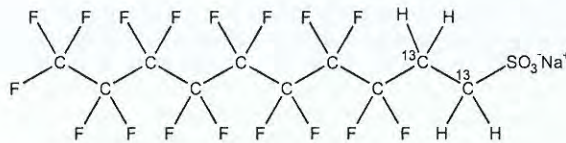


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M2-8:2FTS ✓ **LOT NUMBER:** M282FTS0717
COMPOUND: Sodium 1H,1H,2H,2H-perfluoro-[1,2-¹³C₂]decane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₈H₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 552.15
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.9 ± 2.4 µg/ml (M2-8:2FTS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 07/05/2017 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 07/05/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 ³⁴S (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: 
 B.G. Chittim, General Manager

Date: 07/07/2017
 (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:

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HAZARDS:

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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/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, \dots, x_n on which it depends is:

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

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

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TRACEABILITY:

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

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LIMITED WARRANTY:

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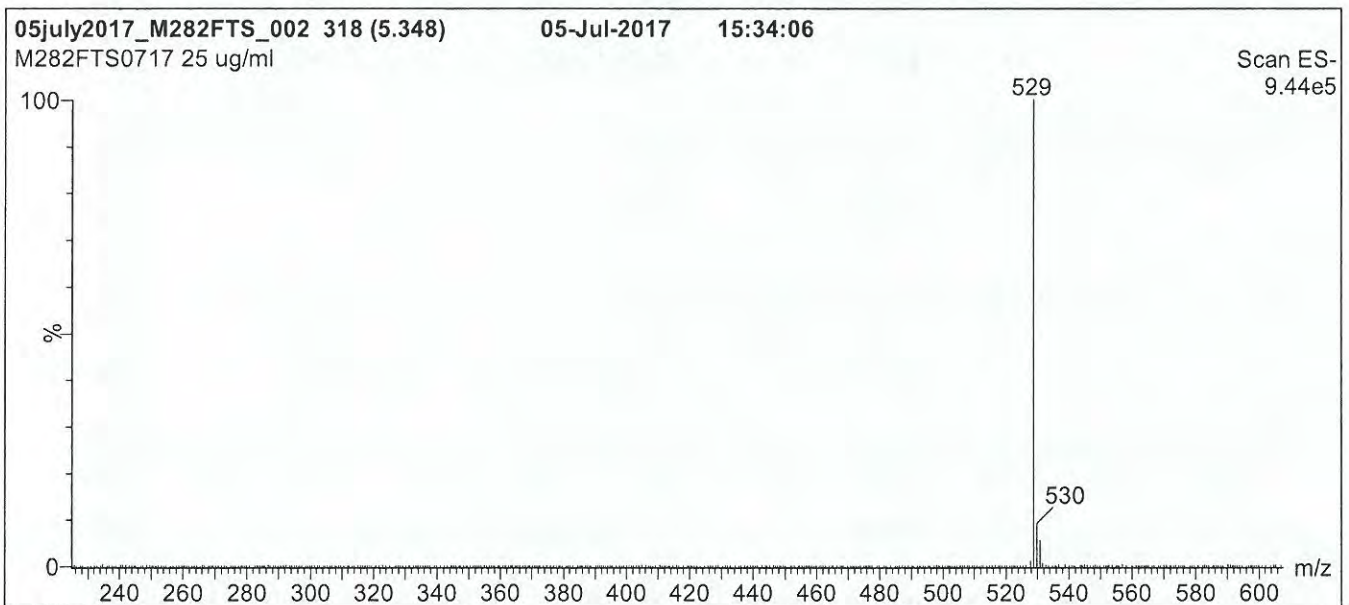
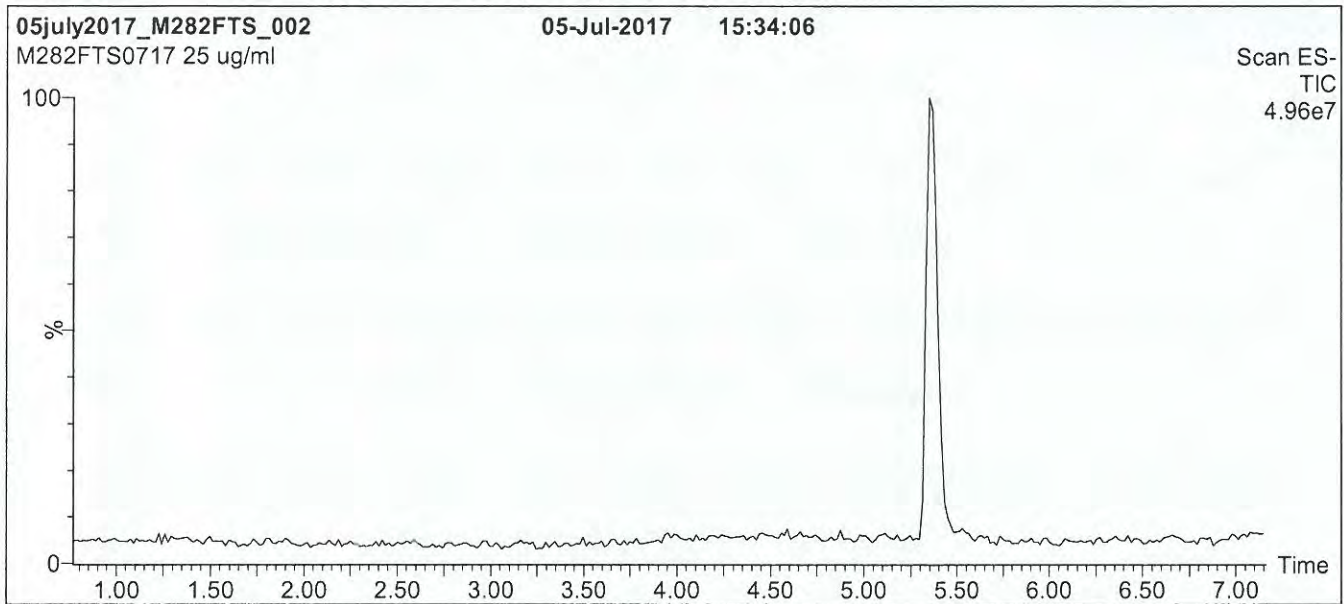
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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Figure 1: M2-8:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

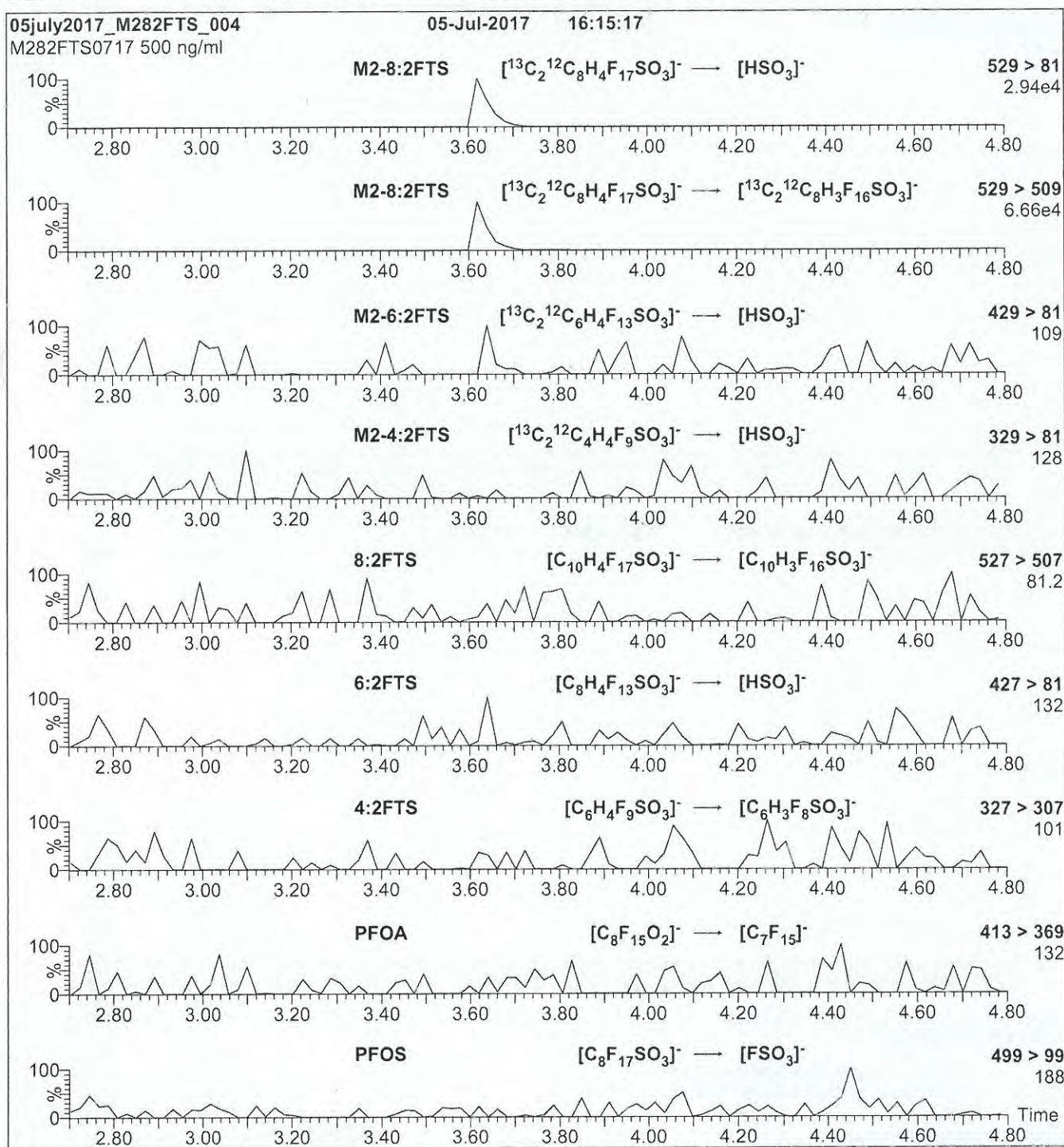
Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)
Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

Figure 2: M2-8:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2-8:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.50e-3
Collision Energy (eV) = 30

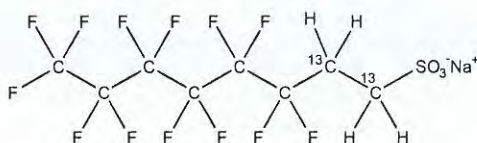
17H0806


WELLINGTON
 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: M2-6:2FTS ✓ **LOT NUMBER:** M262FTS0217
COMPOUND: Sodium 1H,1H,2H,2H-perfluoro-[1,2-¹³C₂]octane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₆H₄F₁₃SO₃Na **MOLECULAR WEIGHT:** 452.13
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.5 ± 2.4 µg/ml (M2-6:2FTS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 02/17/2017 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 02/17/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 ³⁴S (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).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim

Date: 02/24/2017
 (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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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.

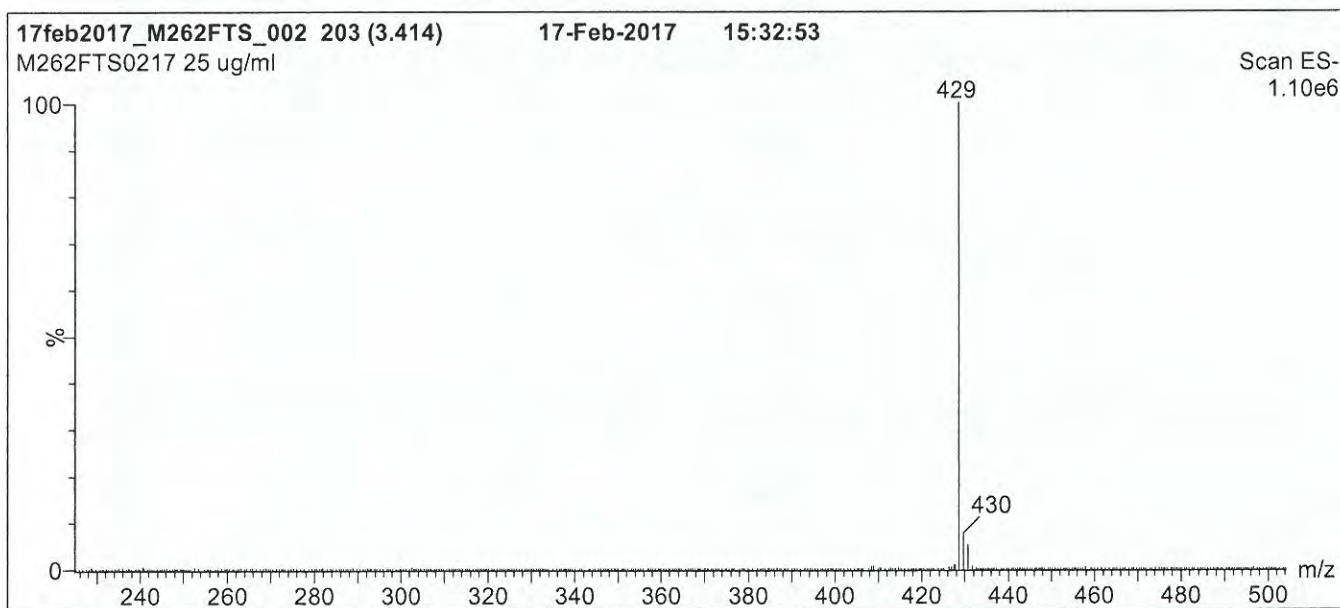
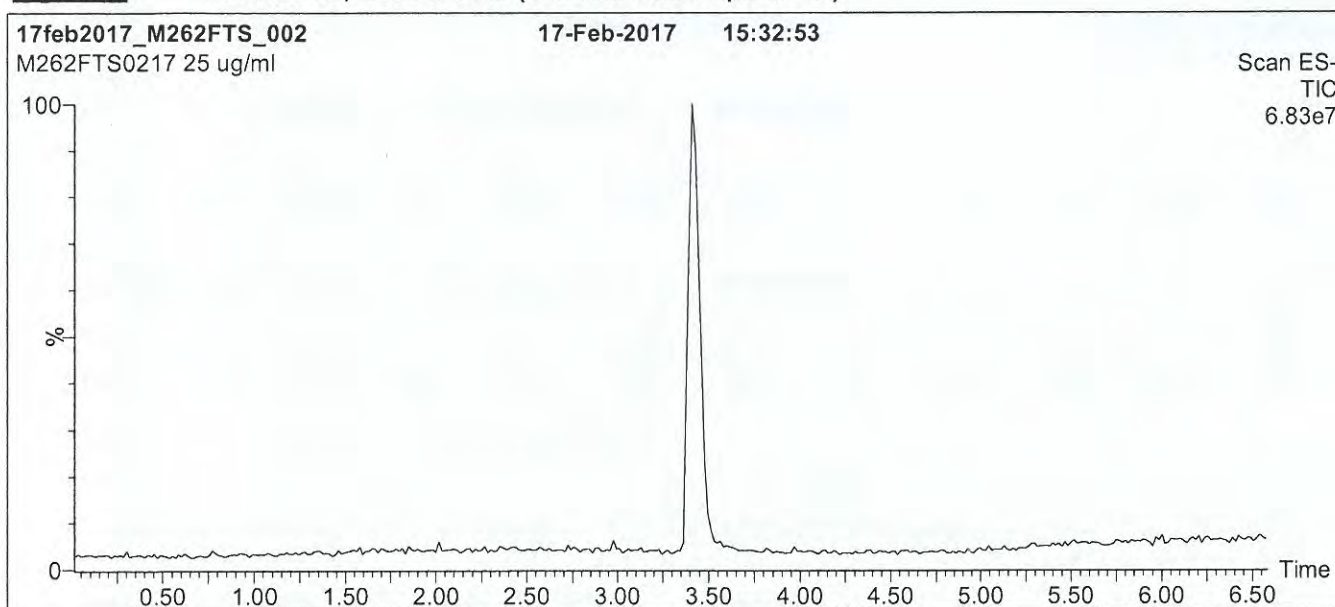
QUALITY MANAGEMENT:

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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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Figure 1: M2-6:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

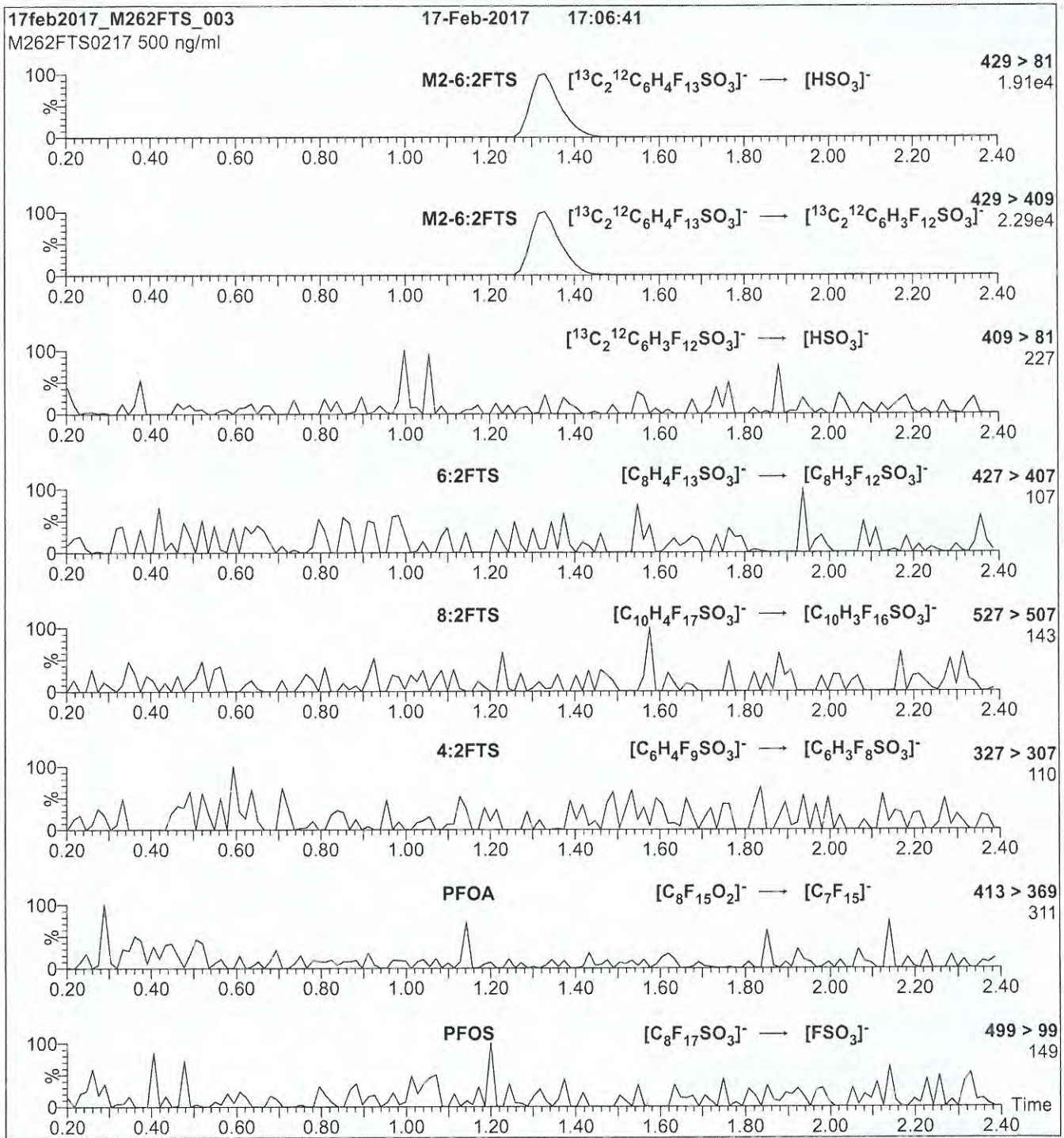
Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)
Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

Figure 2: M2-6:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2-6:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 25

1740807


**WELLINGTON
LABORATORIES**
**CERTIFICATE OF ANALYSIS
DOCUMENTATION**
PRODUCT CODE:

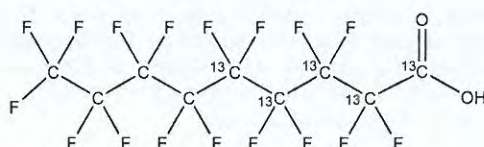
MPFNA ✓

LOT NUMBER:

MPFNA0916

COMPOUND:Perfluoro-n-[1,2,3,4,5-¹³C₅]nonanoic acid**STRUCTURE:****CAS #:**

Not available

**MOLECULAR FORMULA:** $^{13}\text{C}_5^{12}\text{C}_4\text{HF}_{17}\text{O}_2$ **MOLECULAR WEIGHT:**

469.04

CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):**

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

ISOTOPIC PURITY:≥99%¹³C**LAST TESTED:** (mm/dd/yyyy)

09/30/2016

(1,2,3,4,5-¹³C₅)**EXPIRY DATE:** (mm/dd/yyyy)

09/30/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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
Date: 10/11/2016

(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:

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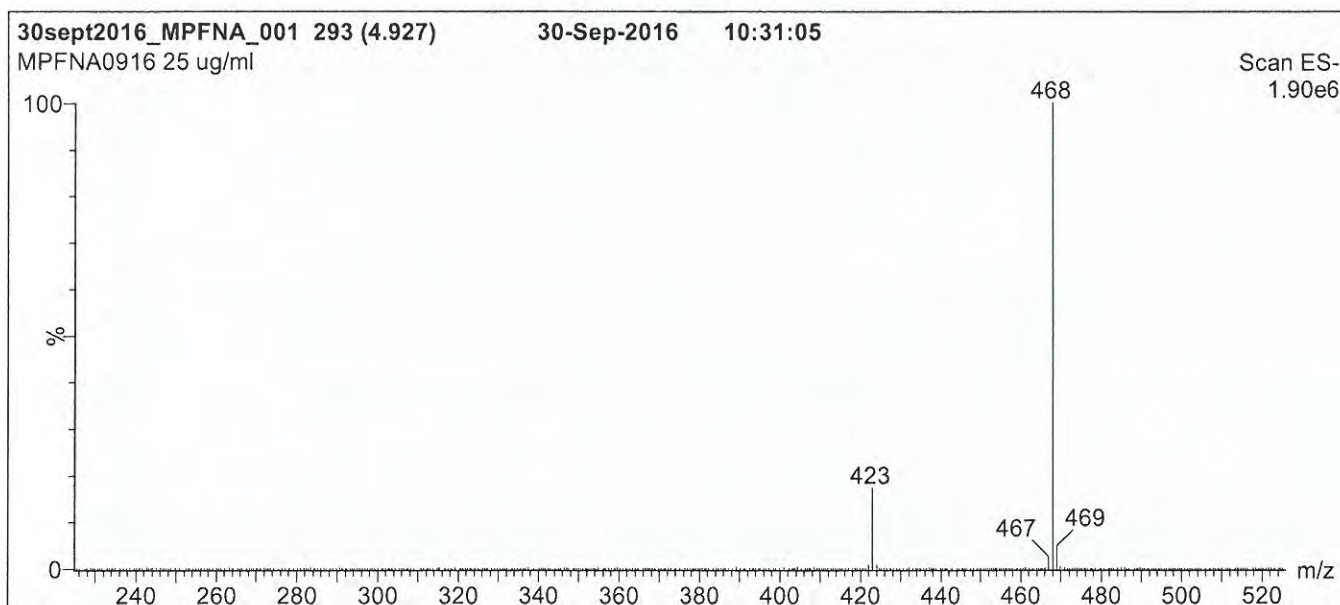
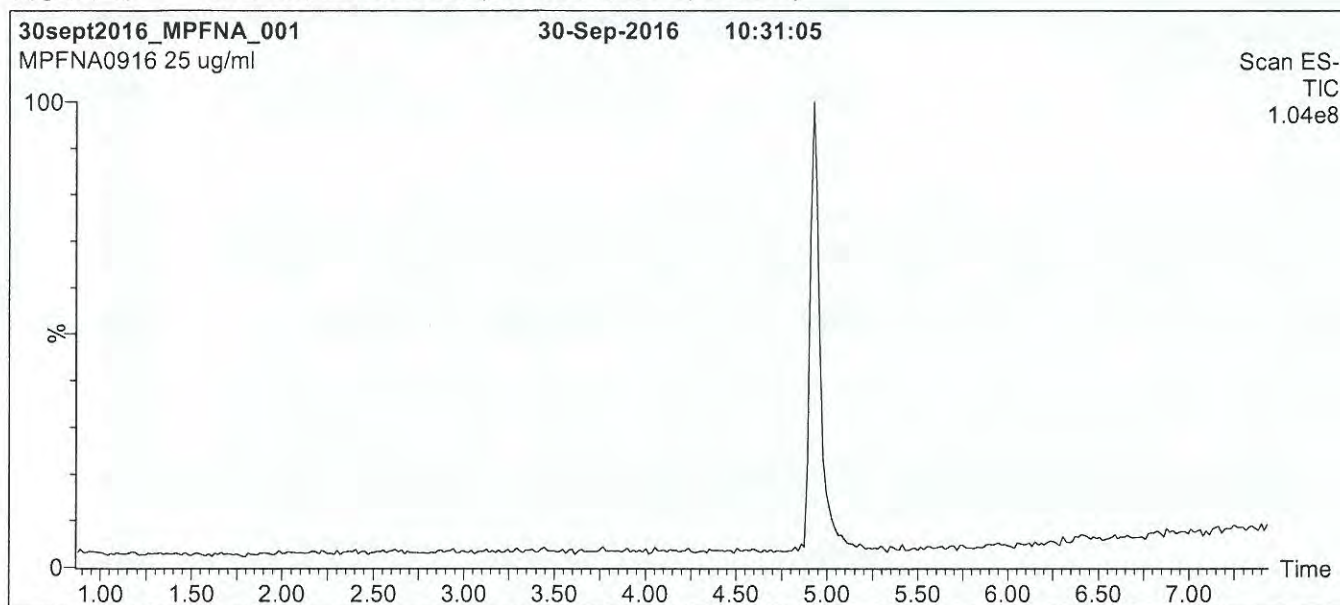
QUALITY MANAGEMENT:

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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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: MPFNA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

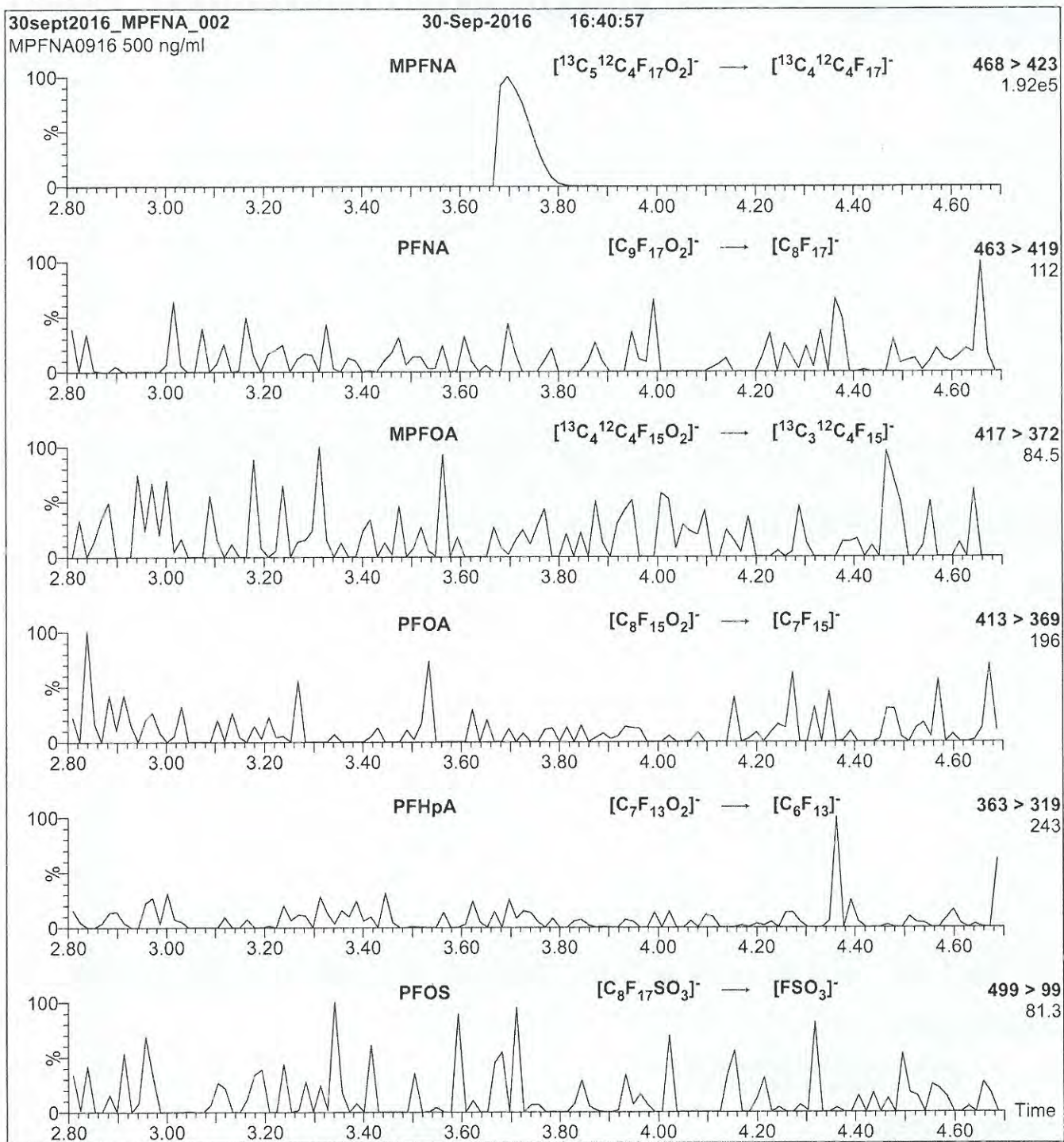
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MPFNA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 11

17H0808

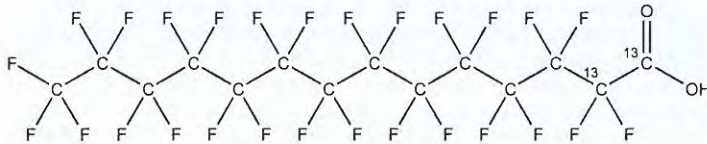


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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M2PFTeDA ✓ **LOT NUMBER:** M2PFTeDA0217
COMPOUND: Perfluoro-n-[1,2-¹³C₂]tetradecanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₂HF₂₇O₂ **MOLECULAR WEIGHT:** 716.10
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
(1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 03/01/2017
EXPIRY DATE: (mm/dd/yyyy) 03/01/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

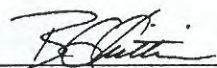
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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:** 03/07/2017
B.G. Chittim, General Manager (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:

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HAZARDS:

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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, \dots, x_n on which it depends is:

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

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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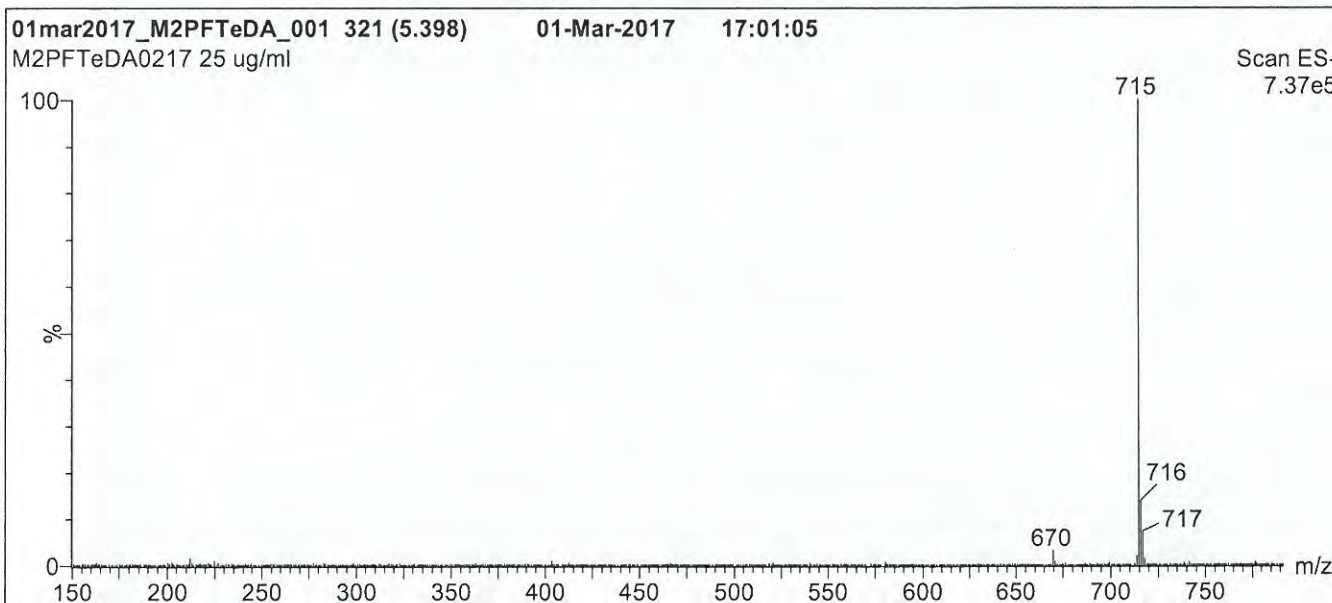
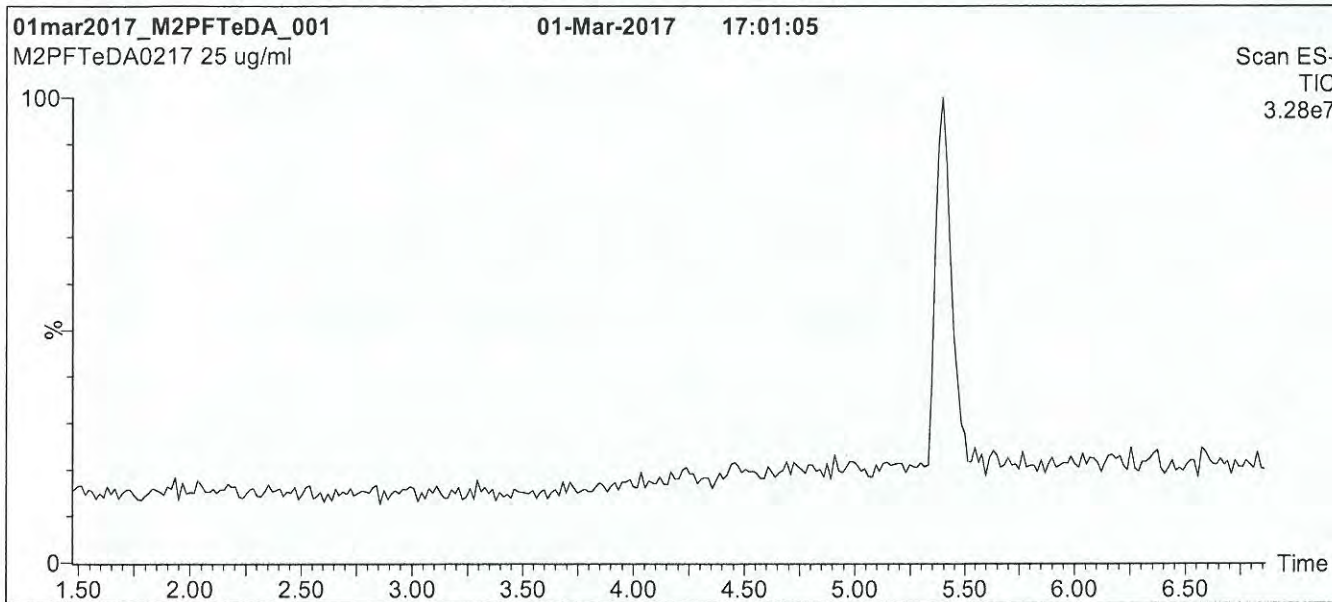
QUALITY MANAGEMENT:

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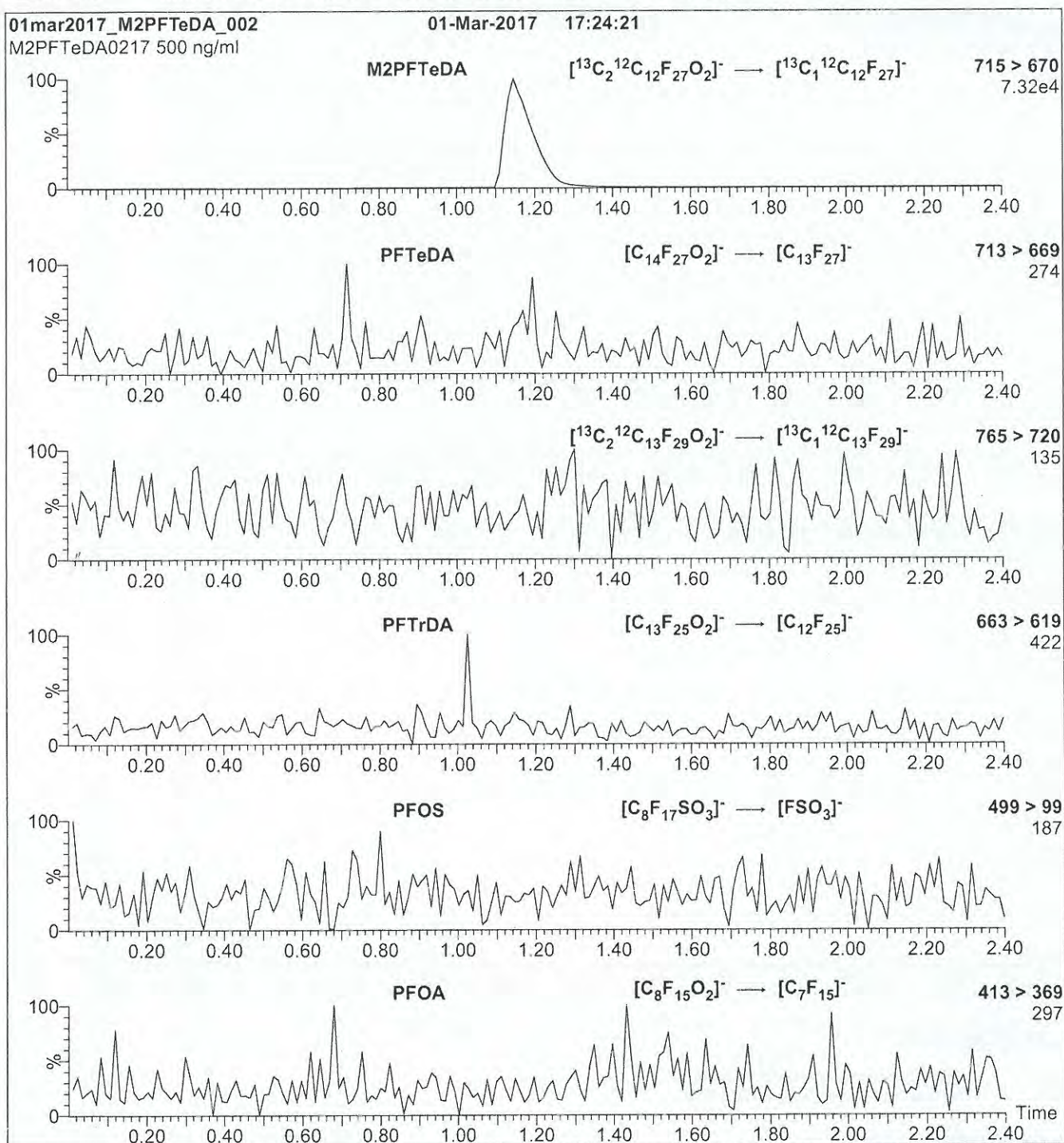
Figure 1: M2PFTeDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC:	Waters Acquity Ultra Performance LC	
MS:	Micromass Quattro <i>micro</i> API MS	
Chromatographic Conditions		MS Parameters
Column:	Acquity UPLC BEH Shield RP ₁₈ 1.7 μm, 2.1 x 100 mm	Experiment: Full Scan (150 - 850 amu)
Mobile phase:	Gradient Start: 65% (80:20 MeOH:ACN) / 35% H ₂ O (both with 10 mM NH ₄ OAc buffer) Ramp to 90% organic over 7.5 min and hold for 1.5 min before returning to initial conditions in 0.5 min. Time: 10 min	Source: Electrospray (negative) Capillary Voltage (kV) = 3.00 Cone Voltage (V) = 15.00 Cone Gas Flow (l/hr) = 60 Desolvation Gas Flow (l/hr) = 750
Flow:	300 μl/min	

Figure 2: M2PFTeDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2PFTeDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.46e-3
Collision Energy (eV) = 14

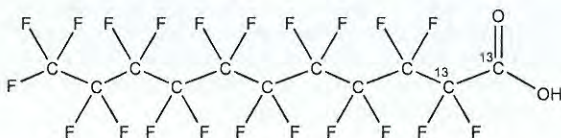
1740809



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MPFUdA ✓ **LOT NUMBER:** MPFUdA1116
COMPOUND: Perfluoro-n-[1,2-¹³C₂]undecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₉HF₂₁O₂ **MOLECULAR WEIGHT:** 566.08
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 11/22/2016
EXPIRY DATE: (mm/dd/yyyy) 11/22/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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.
- Presence of 1-¹³C₁-PFUdA (~1%; see Figure 2), 2-¹³C₁-PFUdA (~1%), and PFUdA (~0.2%; see Figure 2) are due to the isotopic purity of the ¹³C-precursor.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 12/07/2016
(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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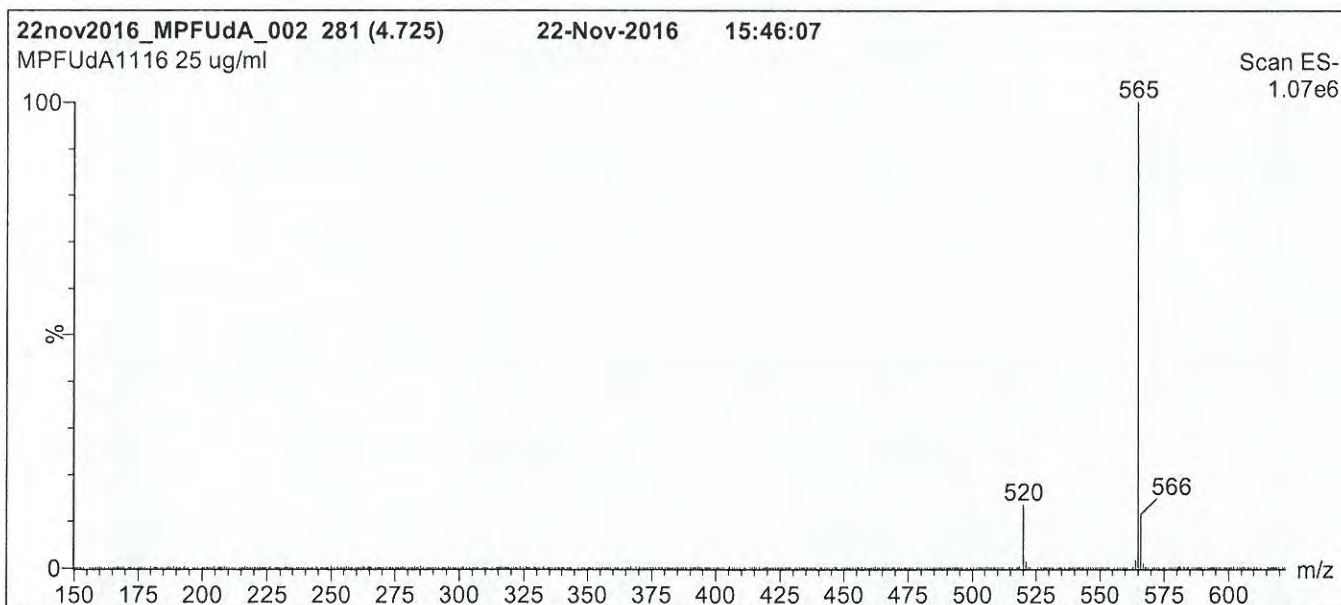
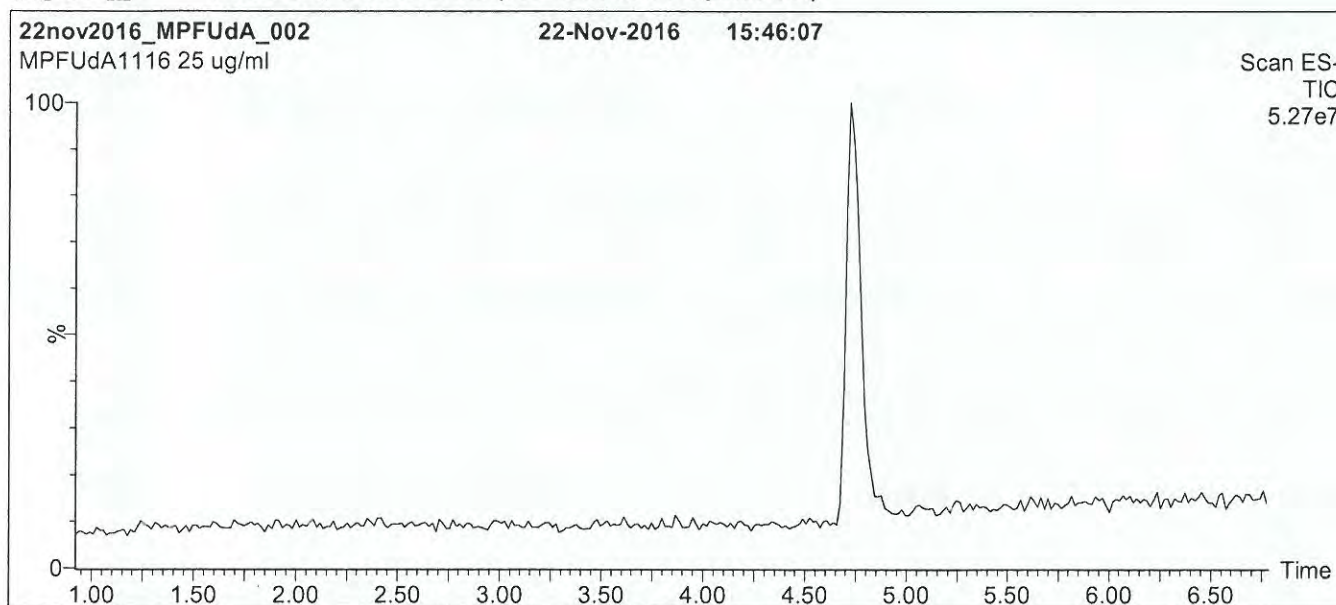
QUALITY MANAGEMENT:

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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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: MPFUdA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 60% (80:20 MeOH:ACN) / 40% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for
 1.5 min before returning to initial conditions in 0.5 min.
 Time: 10 min

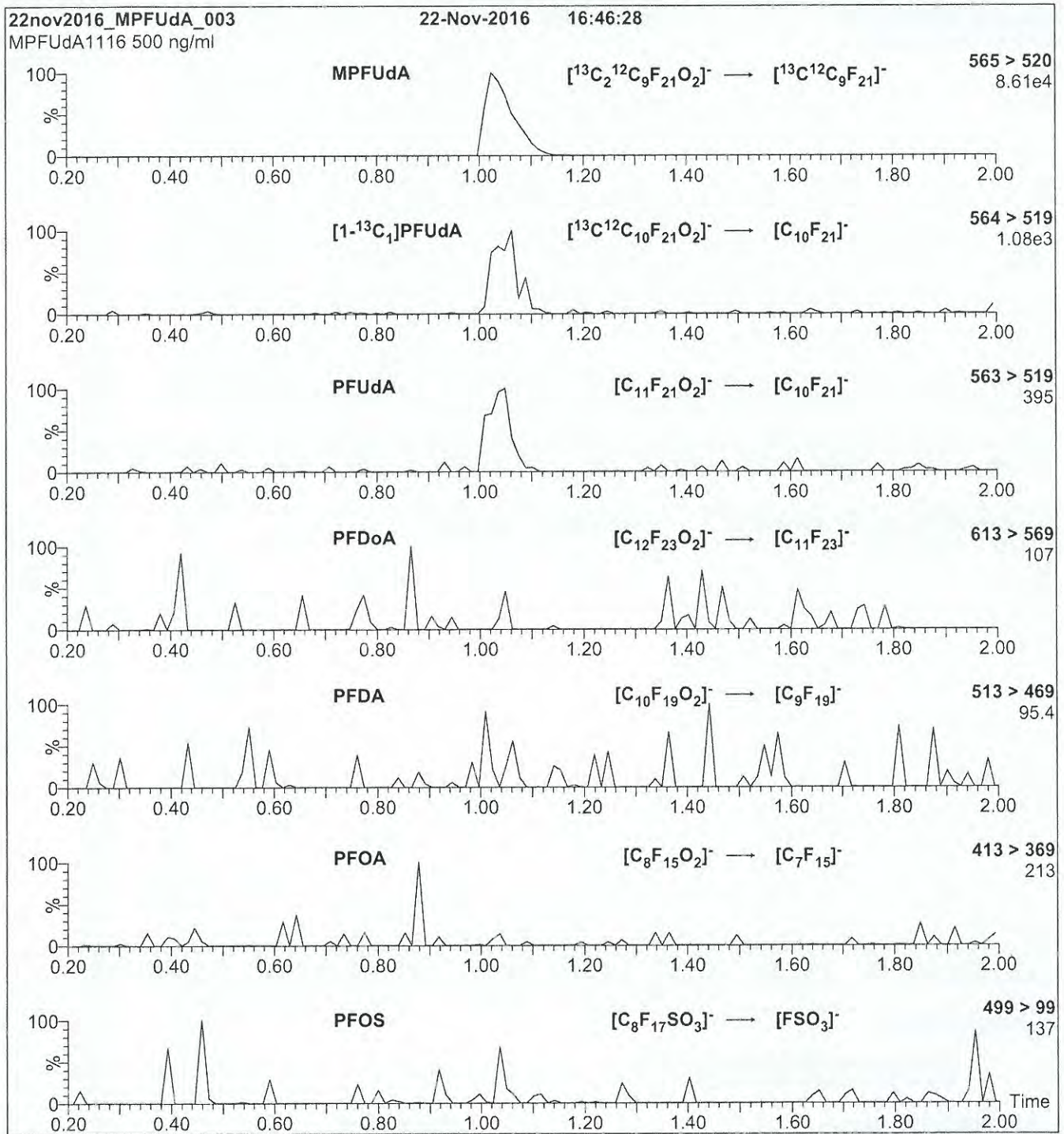
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 65
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
 10 μl (500 ng/ml MPFUdA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
 (both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.46e-3
 Collision Energy (eV) = 11

17H0810


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION
PRODUCT CODE:

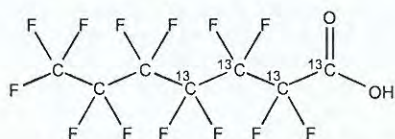
M4PFHpA ✓

LOT NUMBER:

M4PFHpA0517

COMPOUND:Perfluoro-n-[1,2,3,4-¹³C₄]heptanoic acid**STRUCTURE:****CAS #:**

Not available

**MOLECULAR FORMULA:** $^{13}\text{C}_4^{12}\text{C}_3\text{HF}_{13}\text{O}_2$ **MOLECULAR WEIGHT:**

368.03

CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):**

Methanol

CHEMICAL PURITY:

>98%

ISOTOPIC PURITY:≥99%¹³C**LAST TESTED:** (mm/dd/yyyy)

05/03/2017

(1,2,3,4-¹³C₄)**EXPIRY DATE:** (mm/dd/yyyy)

05/03/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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: 05/11/2017

(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.

HAZARDS:

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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Where possible, all of our products are synthesized using single-product unambiguous routes. 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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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.

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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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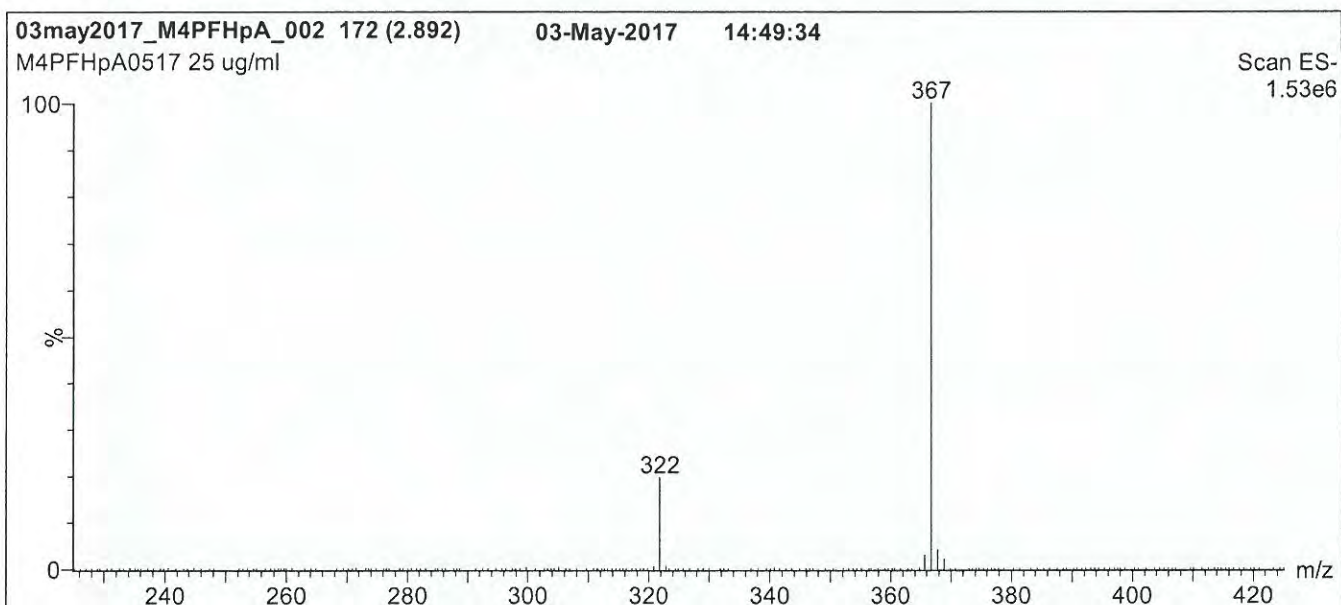
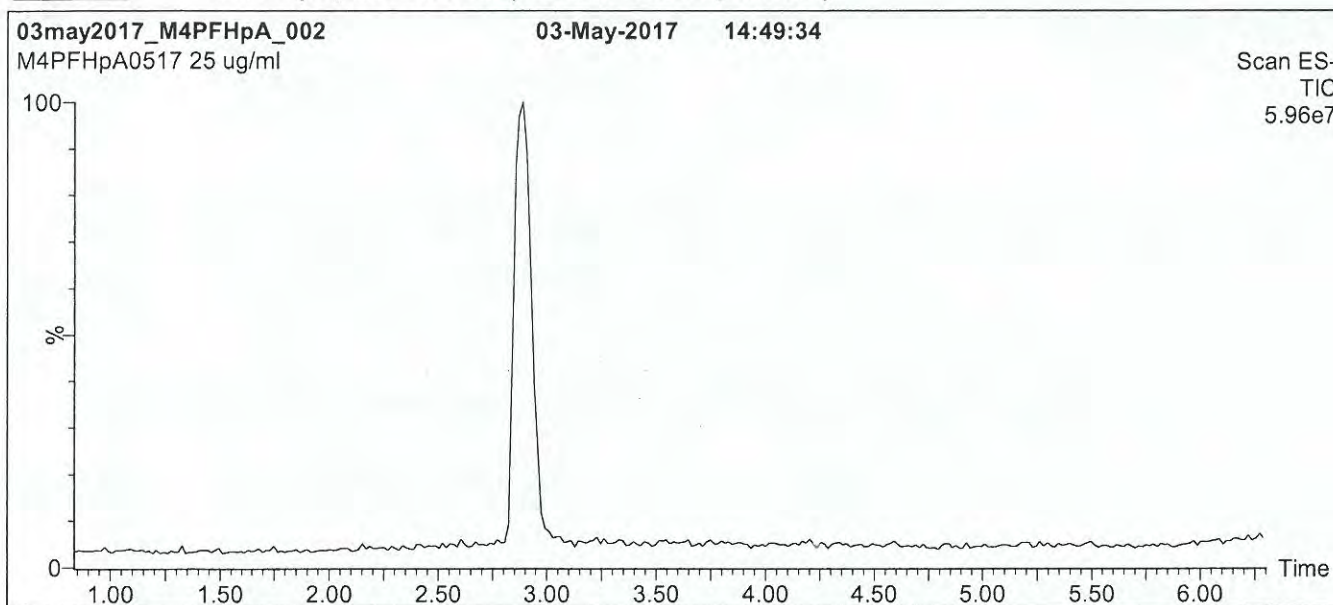
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Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 10 min

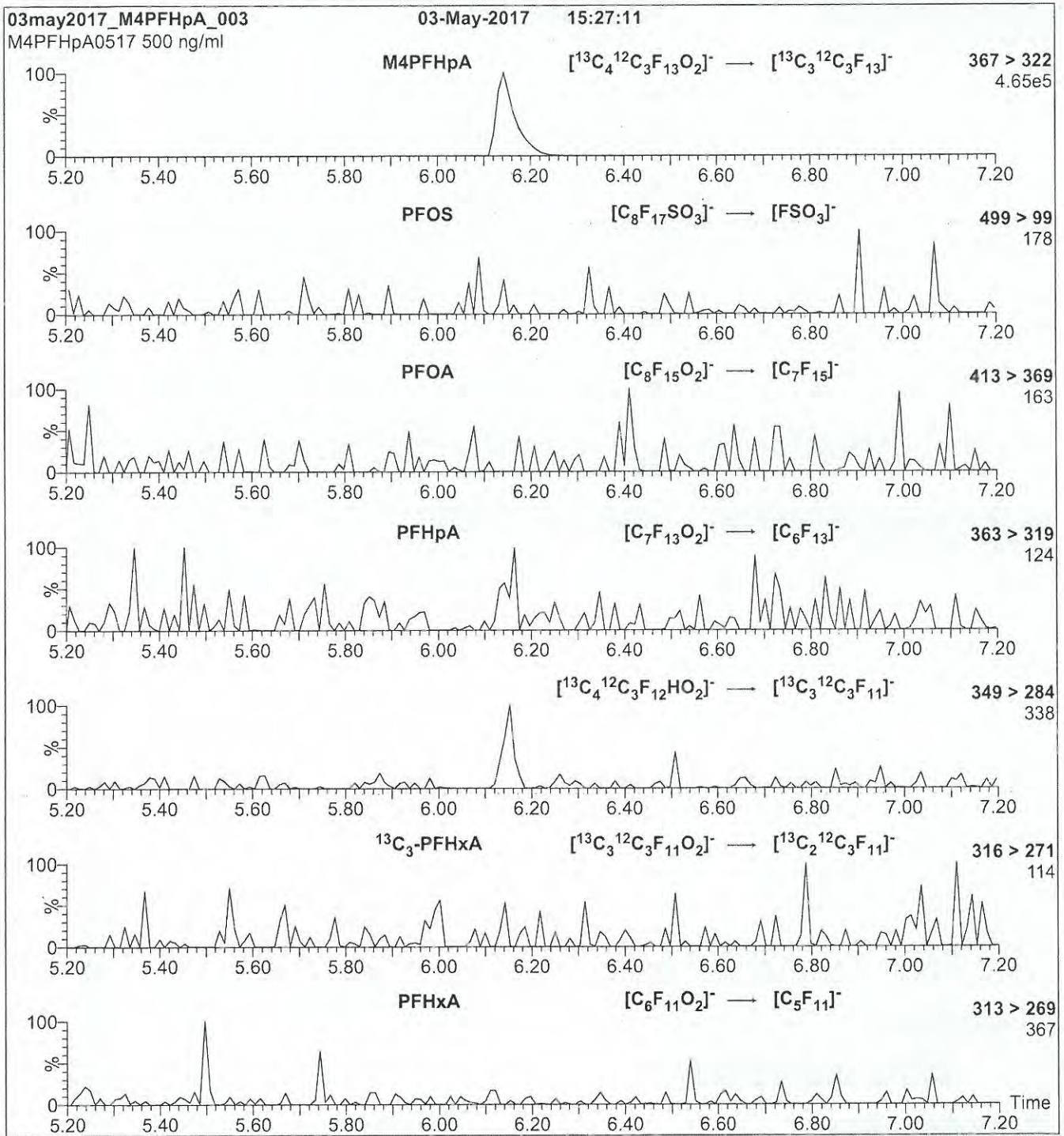
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M4PFHpA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.46e-3
Collision Energy (eV) = 9

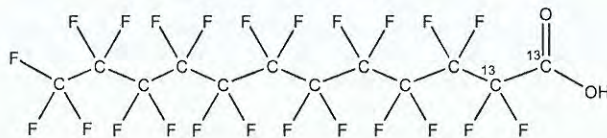
17H0811



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MPFDoA ✓ **LOT NUMBER:** MPFDoA0517
COMPOUND: Perfluoro-n-[1,2-¹³C₂]dodecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₀HF₂₃O₂ **MOLECULAR WEIGHT:** 616.08
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 05/23/2017
EXPIRY DATE: (mm/dd/yyyy) 05/23/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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.

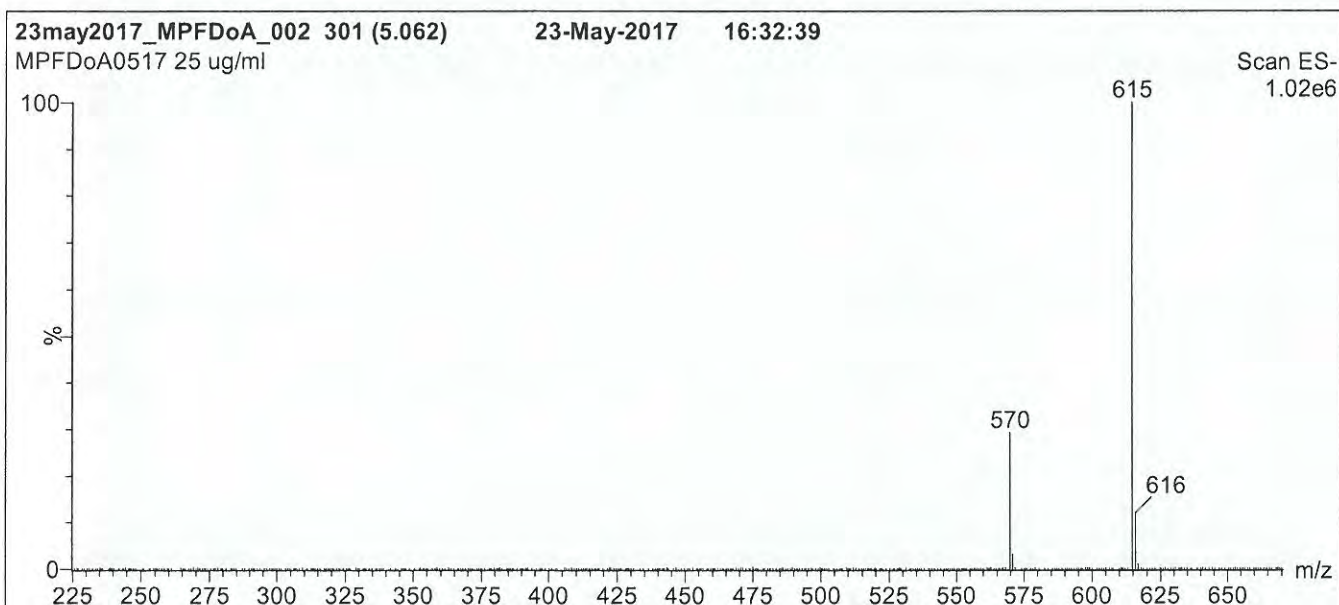
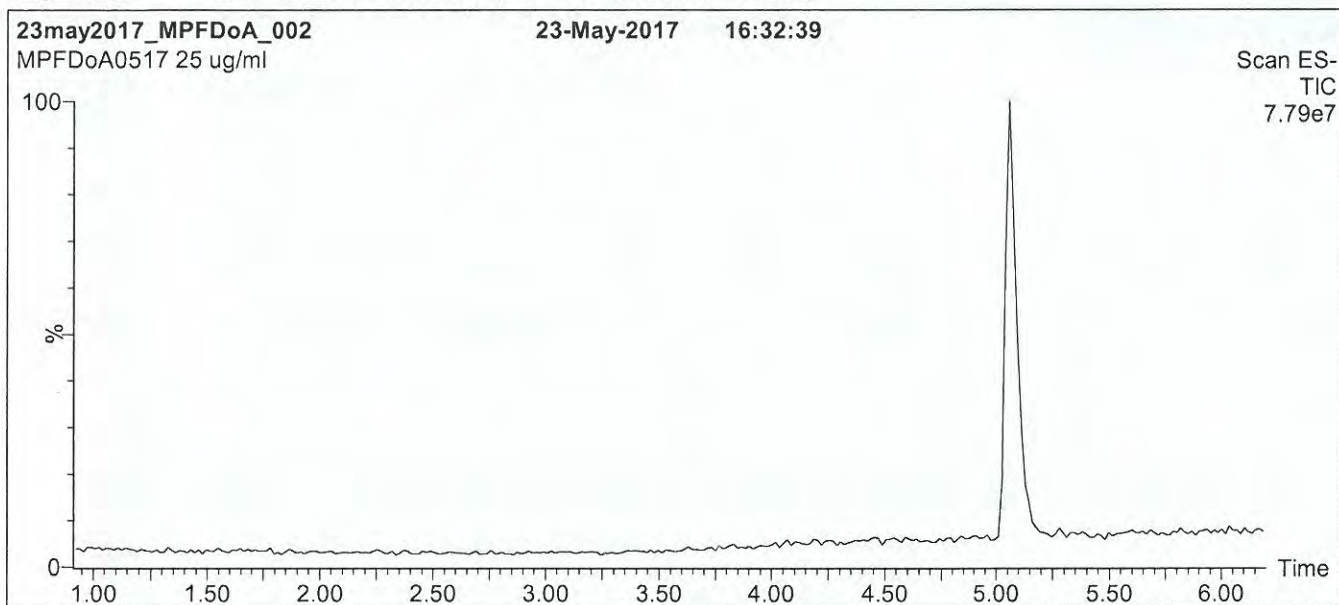
FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager

Date: 05/26/2017
 (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

Figure 1: MPFDoA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

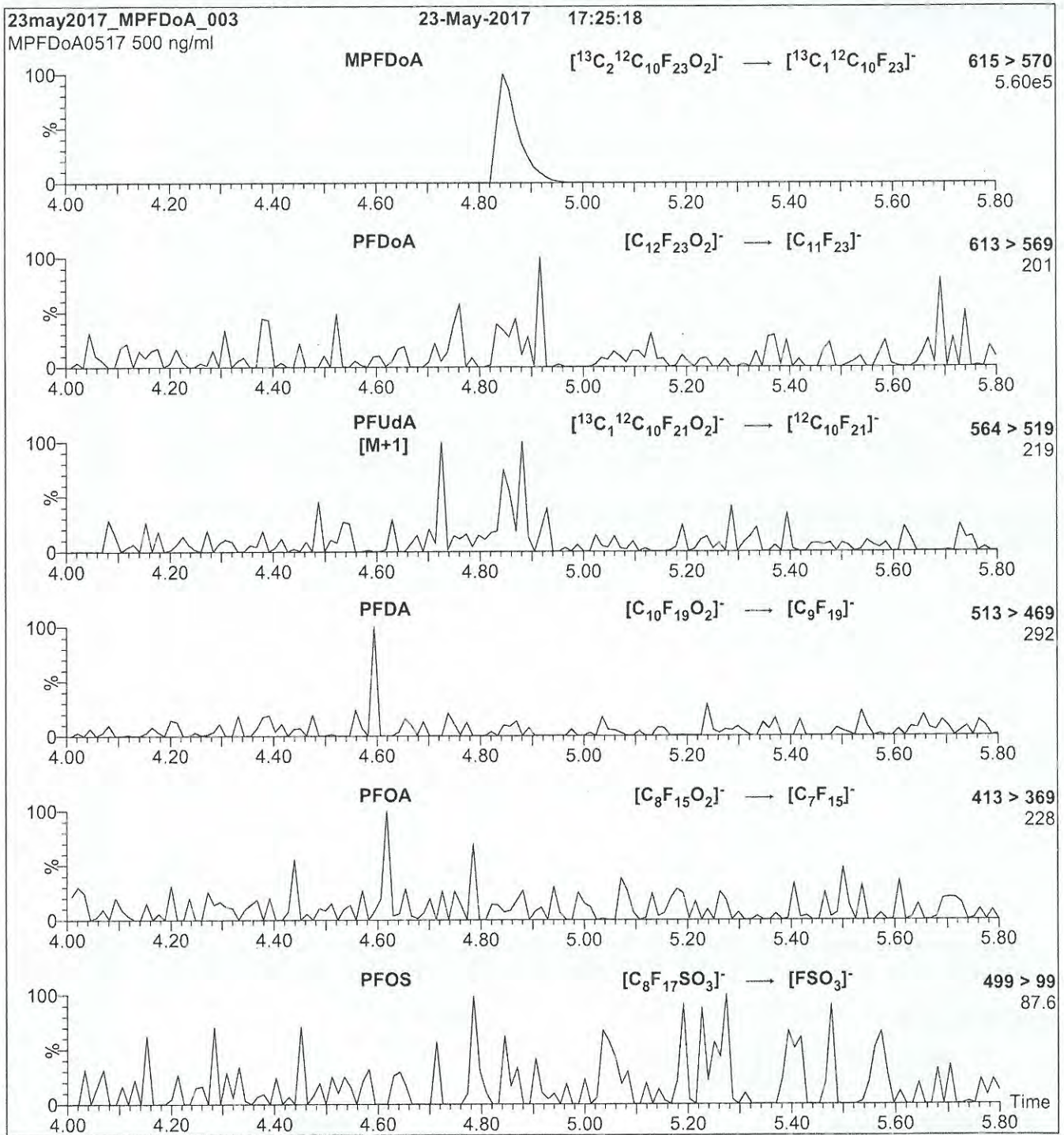
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
 10 μl (500 ng/ml MPFDoA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
 (both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
 Collision Energy (eV) = 13

17H0831

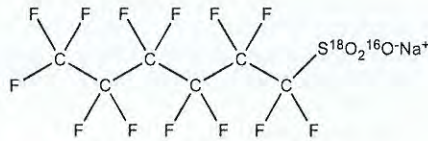


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MPFHxS ✓ **LOT NUMBER:** MPFHxS0217
COMPOUND: Sodium perfluoro-1-hexane[¹⁸O₂]sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₆F₁₃S¹⁸O₂¹⁶ONa **MOLECULAR WEIGHT:** 426.10
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.3 ± 2.4 µg/ml (MPFHxS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** >94% (¹⁸O₂)
LAST TESTED: (mm/dd/yyyy) 02/17/2017
EXPIRY DATE: (mm/dd/yyyy) 02/17/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 (C₆F₁₃S¹⁸O₂¹⁶O) has been observed to be up to 10% lower than for PFHxS (C₆F₁₃S¹⁶O₃) when both compounds are injected together. This difference may vary between instruments.
- Contains ~ 1.0% of sodium perfluoro-1-octane[¹⁸O₂]sulfonate (¹⁸O₂-PFOS).
- Due to the isotopic purity of the starting material (¹⁸O₂ >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

Date: 03/02/2017
(mm/dd/yyyy)

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INTENDED USE:

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HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

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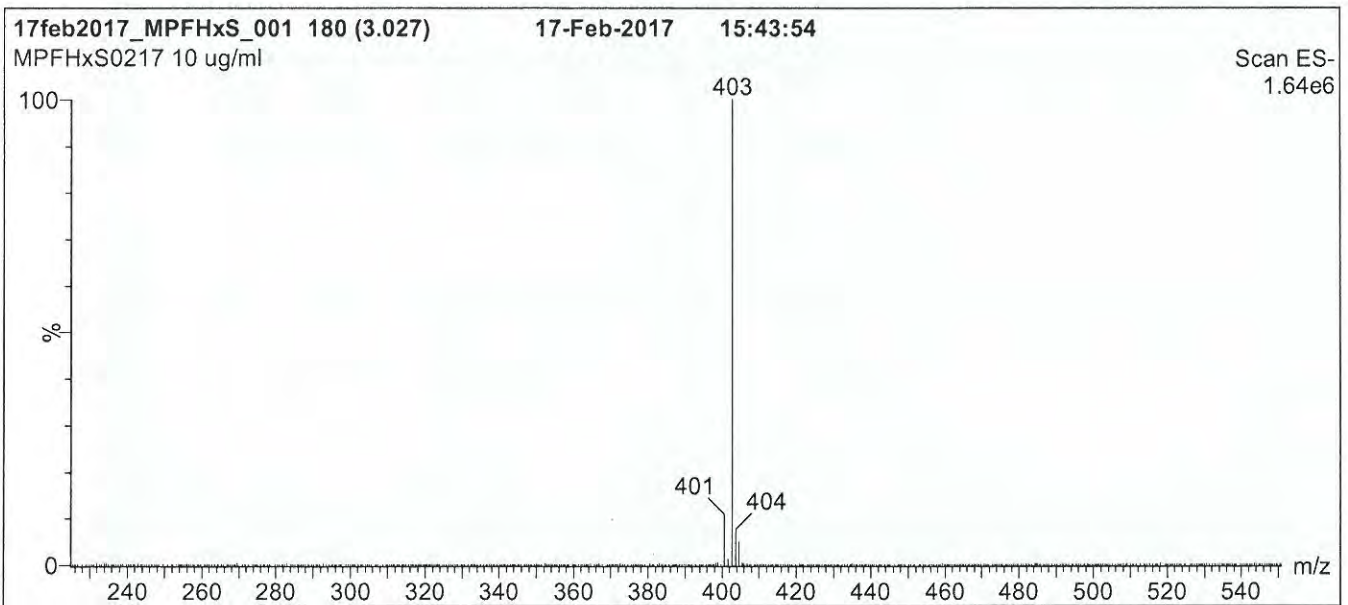
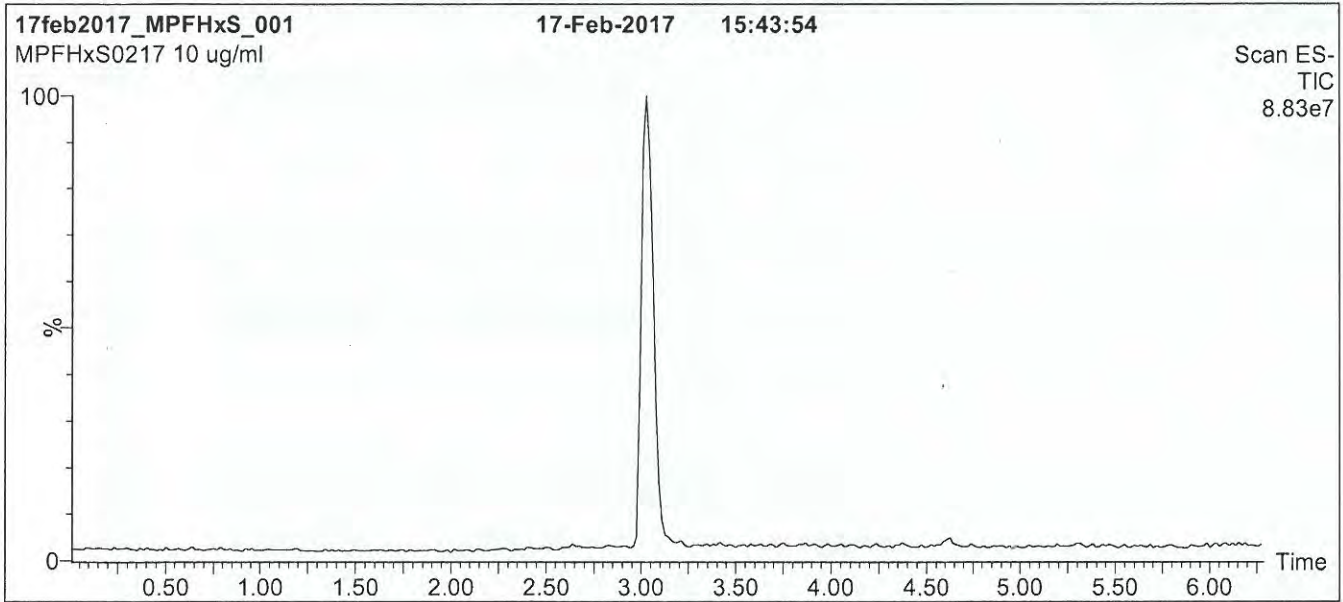
QUALITY MANAGEMENT:

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Figure 1: MPFHxS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 8 min and hold for 1 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

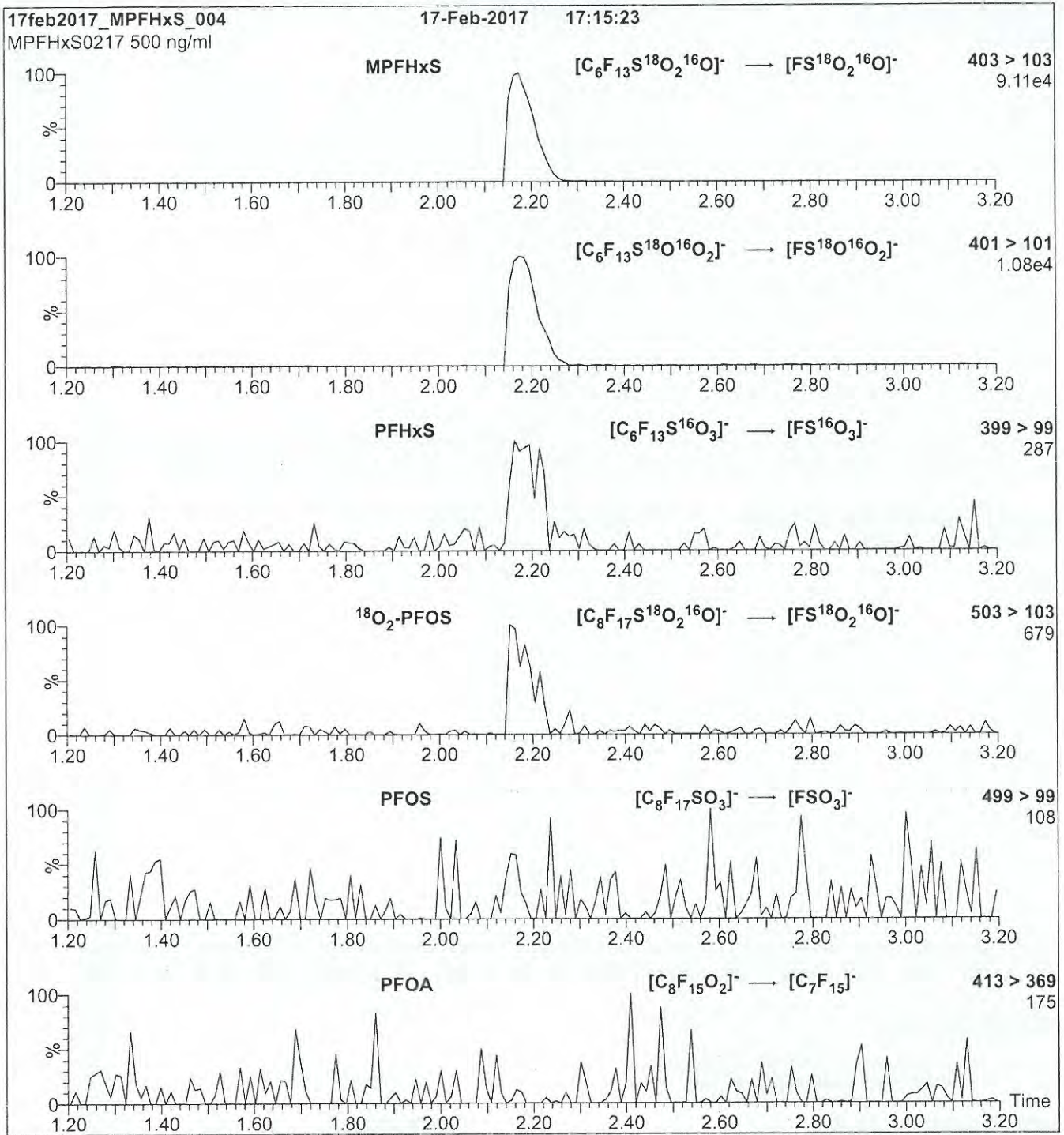
Flow: 300 μl/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 50.00
 Cone Gas Flow (l/hr) = 60
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml MPFHxS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 30

17H0832



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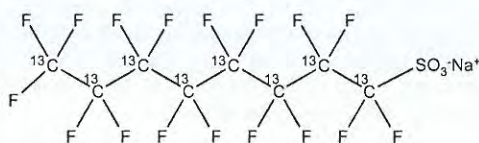
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M8PFOS
COMPOUND: Sodium perfluoro-1-[¹³C₈]octanesulfonate

LOT NUMBER: M8PFOS0916

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: ¹³C₈F₁₇SO₃Na
CONCENTRATION: 48.5 ± 2.4 µg/ml (Na salt)
 46.4 ± 2.3 µg/ml (M8PFOS anion)
CHEMICAL PURITY: >97%
LAST TESTED: (mm/dd/yyyy) 09/30/2016
EXPIRY DATE: (mm/dd/yyyy) 09/30/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

MOLECULAR WEIGHT: 530.05
SOLVENT(S): Methanol
ISOTOPIC PURITY: >99% ¹³C
 (¹³C₈)

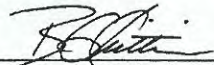
DOCUMENTATION/ DATA ATTACHED:

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

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.6% of sodium perfluoro-1-[¹³C₇]heptanesulfonate (¹³C₇-PFHpS), ~ 1.0% of chlorohexadecafluoro-1-[¹³C₈]octanesulfonate, and ~ 1.5% of sodium perfluoro-1-[¹³C₈]octanesulfonate (MPFOS).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim

Date: 10/11/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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LIMITED WARRANTY:

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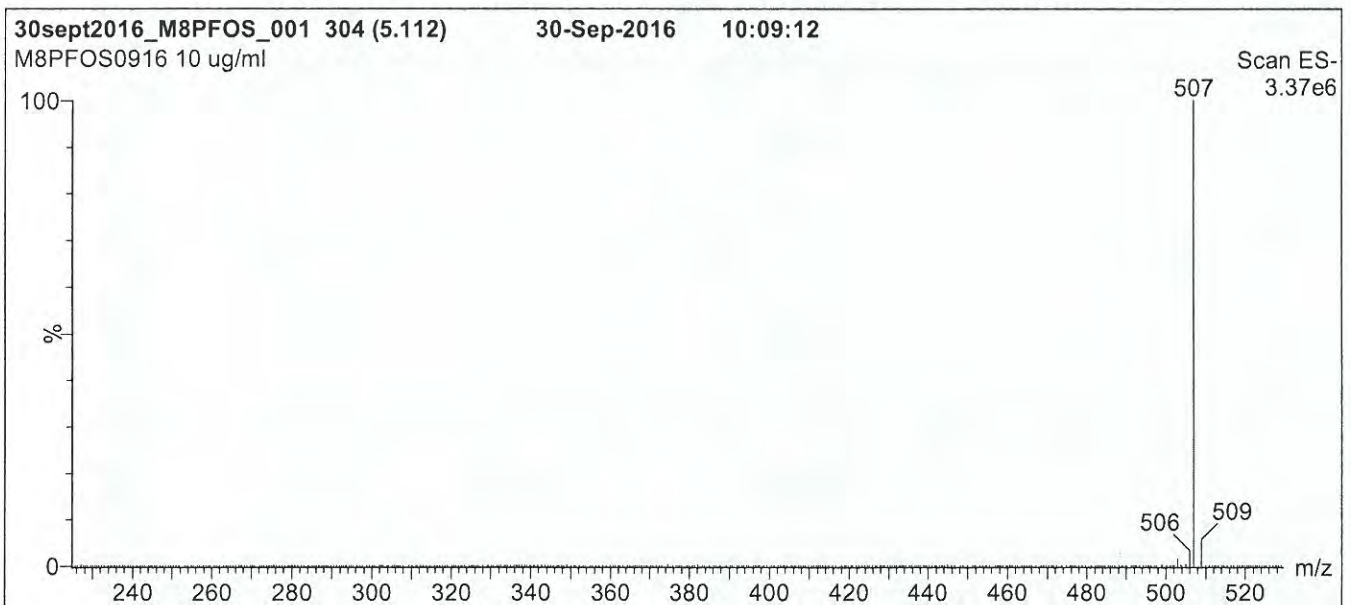
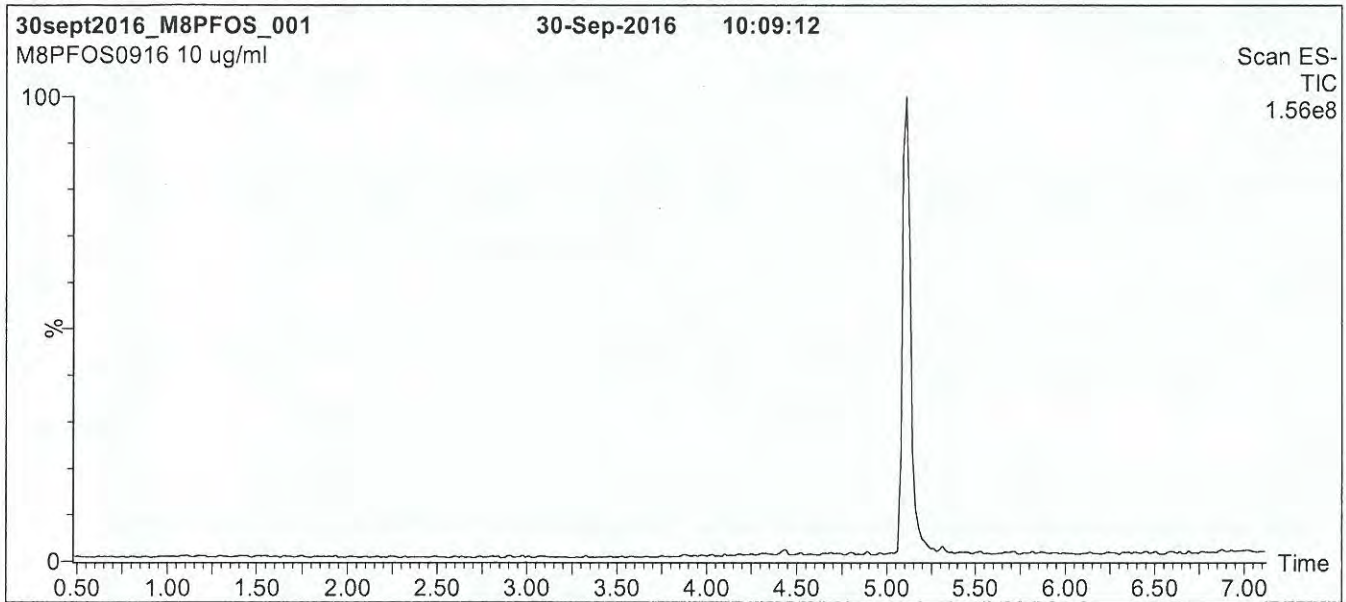
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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 (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

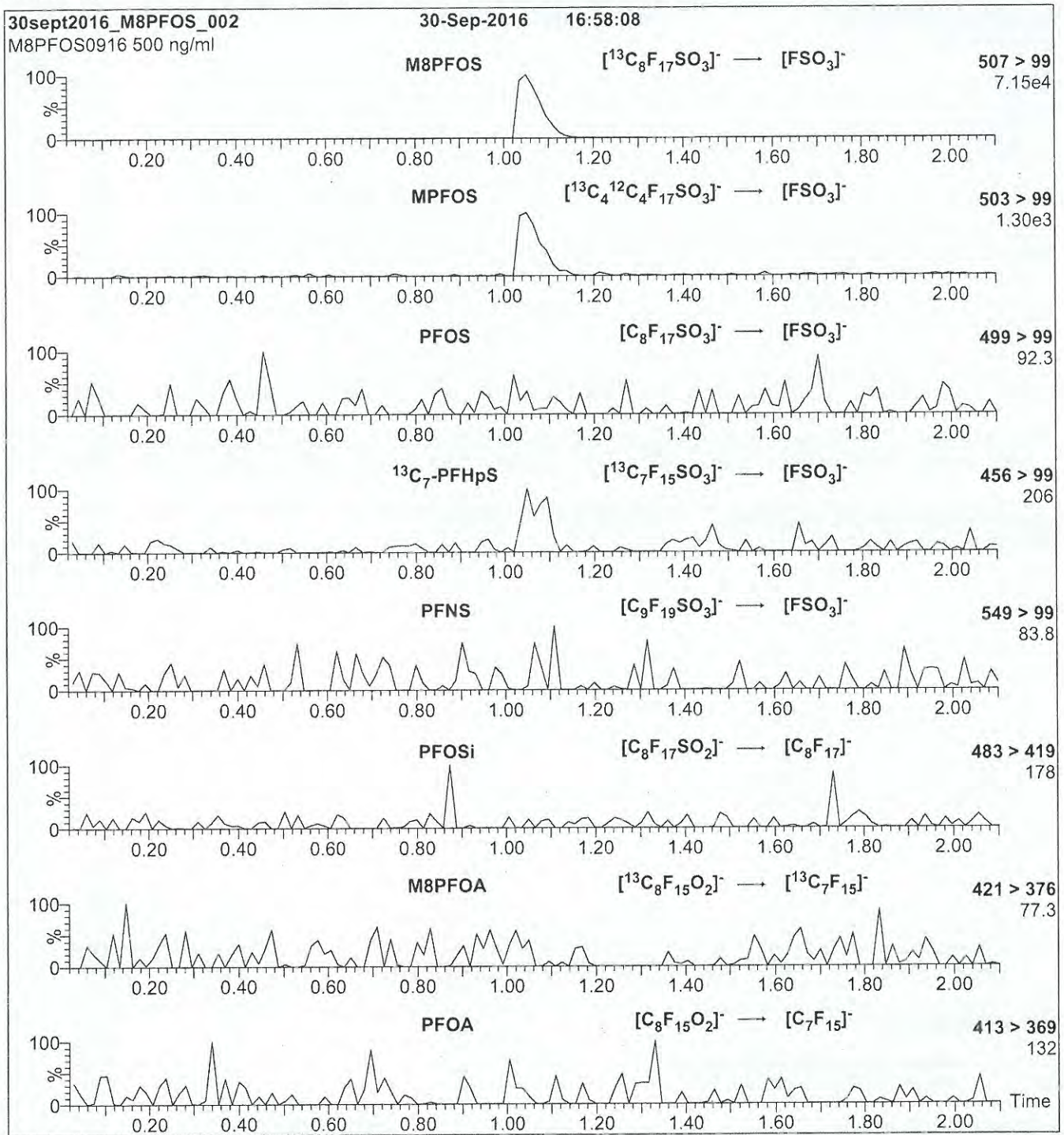
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

Figure 2: M8PFOS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M8PFOS)

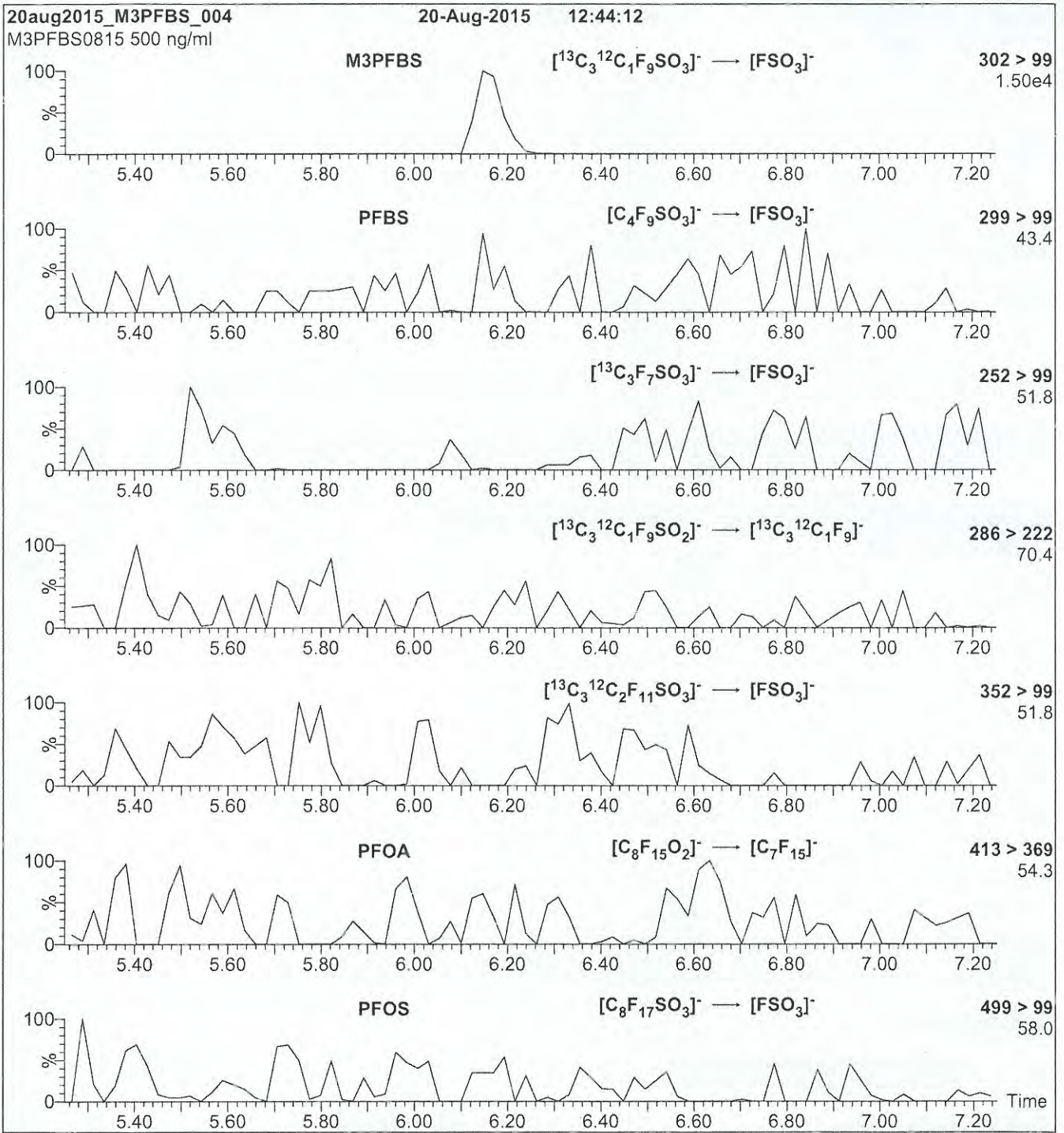
Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 40

Figure 2: M3PFBS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M3PFBS)

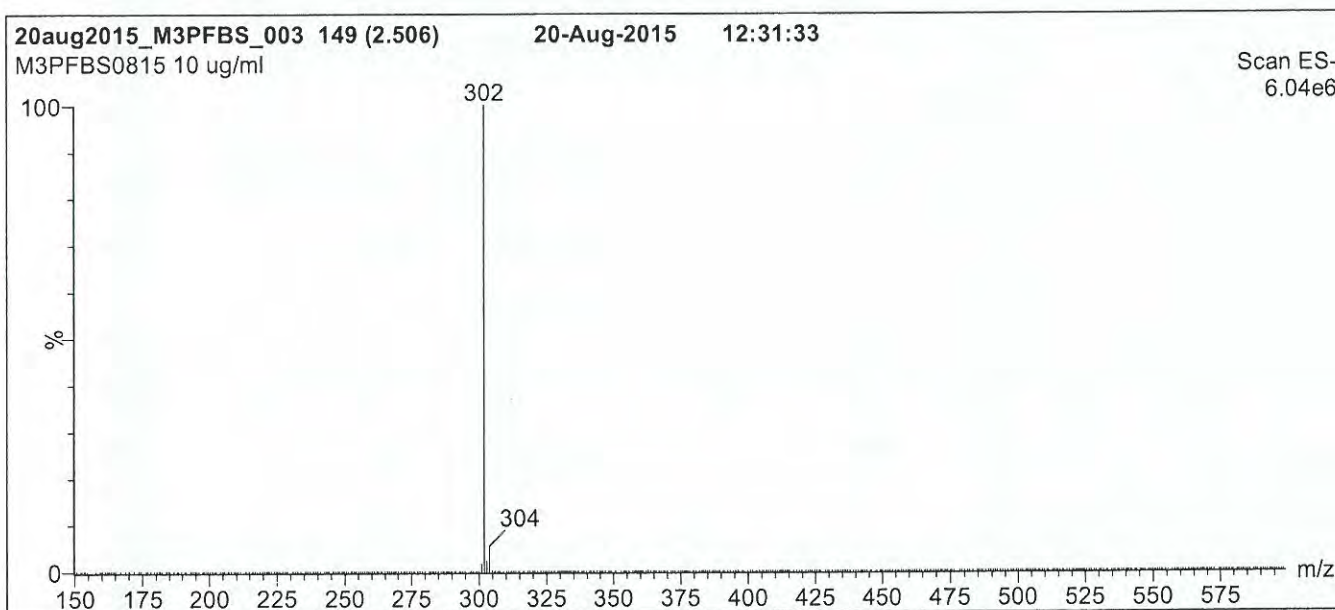
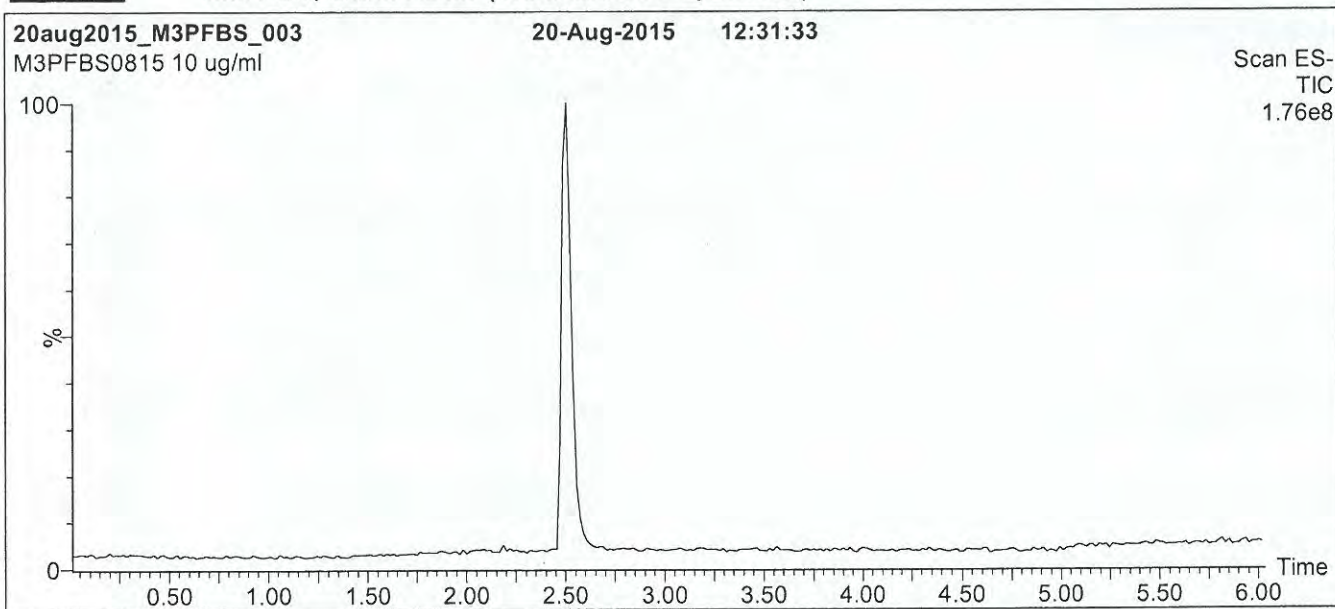
Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 25

Figure 1: M3PFBS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 40% (80:20 MeOH:ACN) / 60% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for
 2 min before returning to initial conditions in 0.5 min.
 Time: 10 min

Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.00
 Cone Voltage (V) = 40.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

INTENDED USE:

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HAZARDS:

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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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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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17H0833

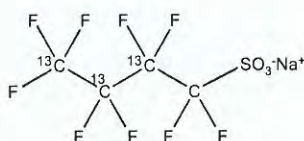


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3PFBS ↓ **LOT NUMBER:** M3PFBS0815
COMPOUND: Sodium perfluoro-1-[2,3,4-¹³C₃]butanesulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA:	¹³ C ₃ ¹² CF ₉ SO ₃ Na	MOLECULAR WEIGHT:	325.06
CONCENTRATION:	50.0 ± 2.5 µg/ml (Na salt) 46.5 ± 2.3 µg/ml (M3PFBS anion)	SOLVENT(S):	Methanol
CHEMICAL PURITY:	>98%	ISOTOPIC PURITY:	≥99% ¹³ C (2,3,4- ¹³ C ₃)
LAST TESTED: (mm/dd/yyyy)	05/24/2017		
EXPIRY DATE: (mm/dd/yyyy)	05/24/2022		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

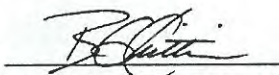
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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:** 05/25/2017
(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

Analytical Standard Record

Vista Analytical Laboratory

17H1718

Description:	PFC-RS	Expires:	17-Aug-18
Solvent:	MeOH	Prepared:	17-Aug-17
Final Volume (mls):	15	Prepared By:	Isaac N. Johnson

Analyte	CAS Number	Concentration	Units
13C9-PFNA		1.25	ug/mL
13C8-PFOA		1.25	ug/mL
13C7-PFUnA		1.25	ug/mL
13C6-PFDA		1.25	ug/mL
13C5-PFHxA		1.25	ug/mL
13C4-PFOS		1.25	ug/mL
13C4-PFBA		1.25	ug/mL
13C3-PFHxS		1.25	ug/mL
13C2-FOUEA		1.25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Comments	(mls)
17F3035	13C9-PFNA	30-Jun-17	** Vendor **	27-Aug-19		0.375
17F3036	13C4-PFBA	30-Jun-17	** Vendor **	12-Apr-22		0.375
17F3037	13C7-PFUdA	30-Jun-17	** Vendor **	22-Jan-21		0.375
17G1207	13C6-PFDA	12-Jul-17	** Vendor **	31-May-21		0.375
17G1302	13C8-PFOA	13-Jul-17	** Vendor **	12-Feb-21	concentration based on 97.9%	0.383
17H0816	13C4-PFOS	08-Aug-17	** Vendor **	19-May-22	Na salt conc = 50.0 +/- 2.5 ug	0.392
17H0817	13C2-FOUEA	08-Aug-17	** Vendor **	02-Aug-18		0.375
17H0818	13C3-PFHxS	08-Aug-17	** Vendor **	31-May-21	Na salt conc = 50.0 +/- 2.5 ug	0.396
17H0819	13C5-PFHxA	08-Aug-17	** Vendor **	27-Aug-19		0.375

17F3035

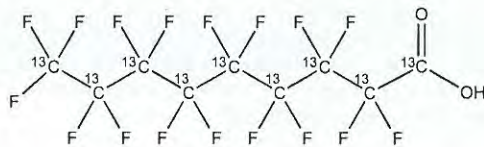


**WELLINGTON
LABORATORIES**

**CERTIFICATE OF ANALYSIS
DOCUMENTATION**

PRODUCT CODE: M9PFNA **LOT NUMBER:** M9PFNA0814
COMPOUND: Perfluoro-n-[¹³C₉]nonanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₉HF₁₇O₂ **MOLECULAR WEIGHT:** 473.01
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 08/27/2014 (¹³C₉)
EXPIRY DATE: (mm/dd/yyyy) 08/27/2019
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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 ~ 0.9% of ¹³C₅¹²C₄HF₁₇O₂ (MPFNA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim **Date:** 04/01/2015
(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

17F3035

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.

HAZARDS:

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.

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

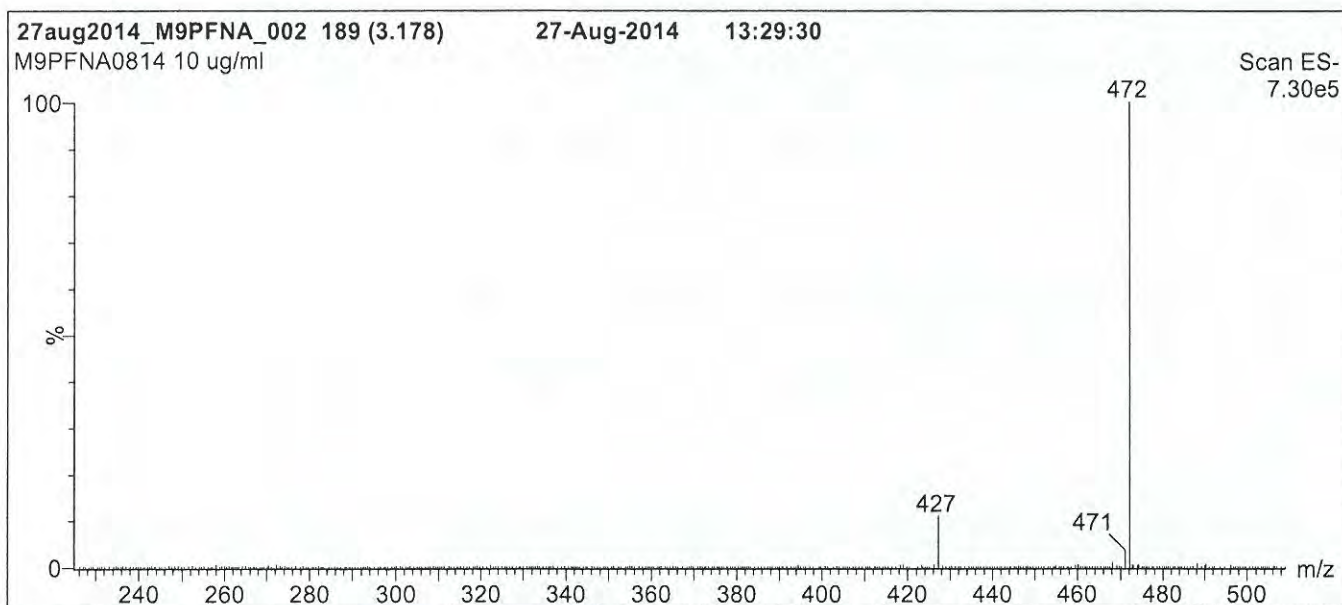
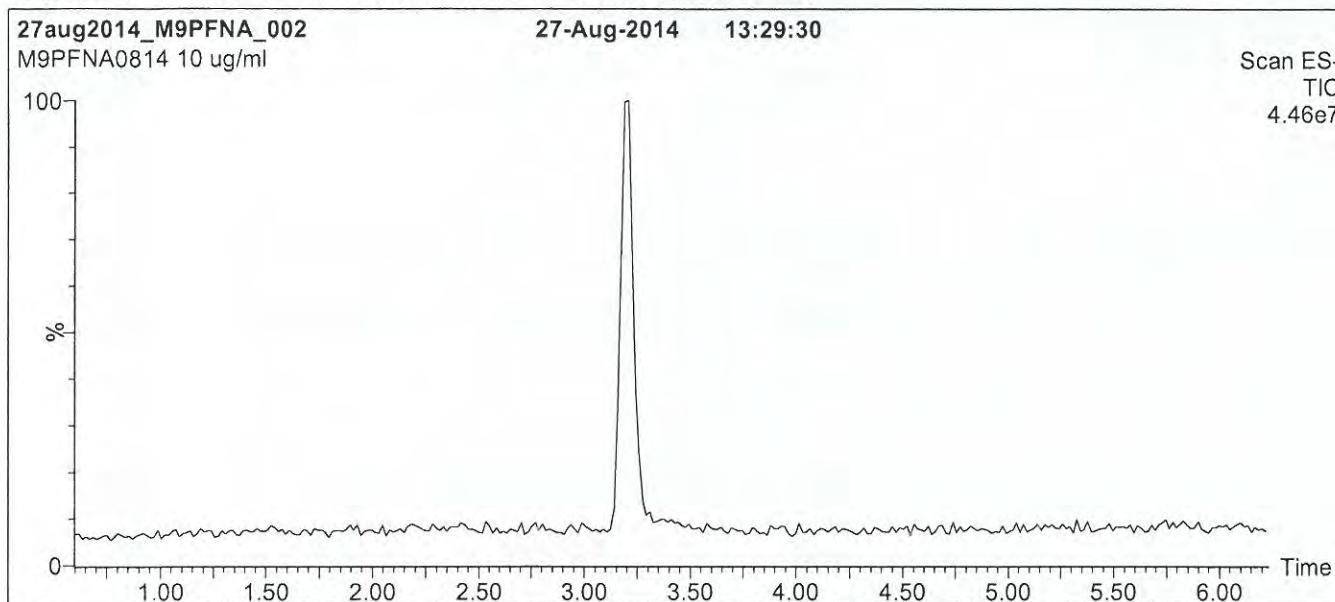
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17F3035

Figure 1: M9PFNA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

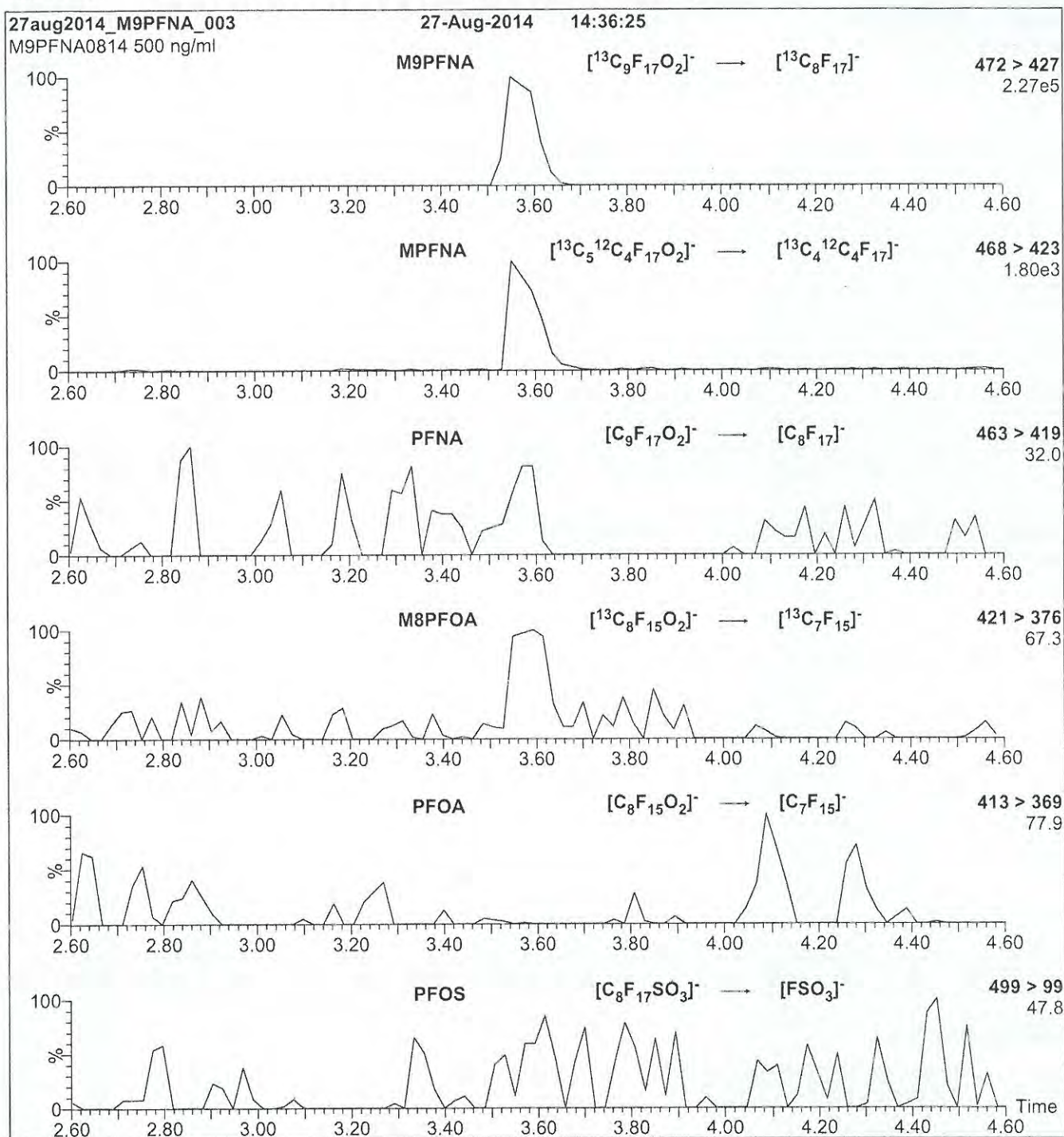
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17F3035

Figure 2: M9PFNA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M9PFNA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.74e-3
Collision Energy (eV) = 11

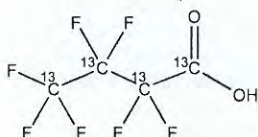
17F3036



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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MPFBA **LOT NUMBER:** MPFBA0417
COMPOUND: Perfluoro-n-[1,2,3,4-¹³C₄]butanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₄HF₇O₂ **MOLECULAR WEIGHT:** 218.01
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99%¹³C
(1,2,3,4-¹³C₄)
LAST TESTED: (mm/dd/yyyy) 04/12/2017
EXPIRY DATE: (mm/dd/yyyy) 04/12/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

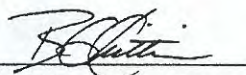
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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:** 04/20/2017
B.G. Chittim, General Manager (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

17F3037 ^{INV} 7/3/17
17F3036

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

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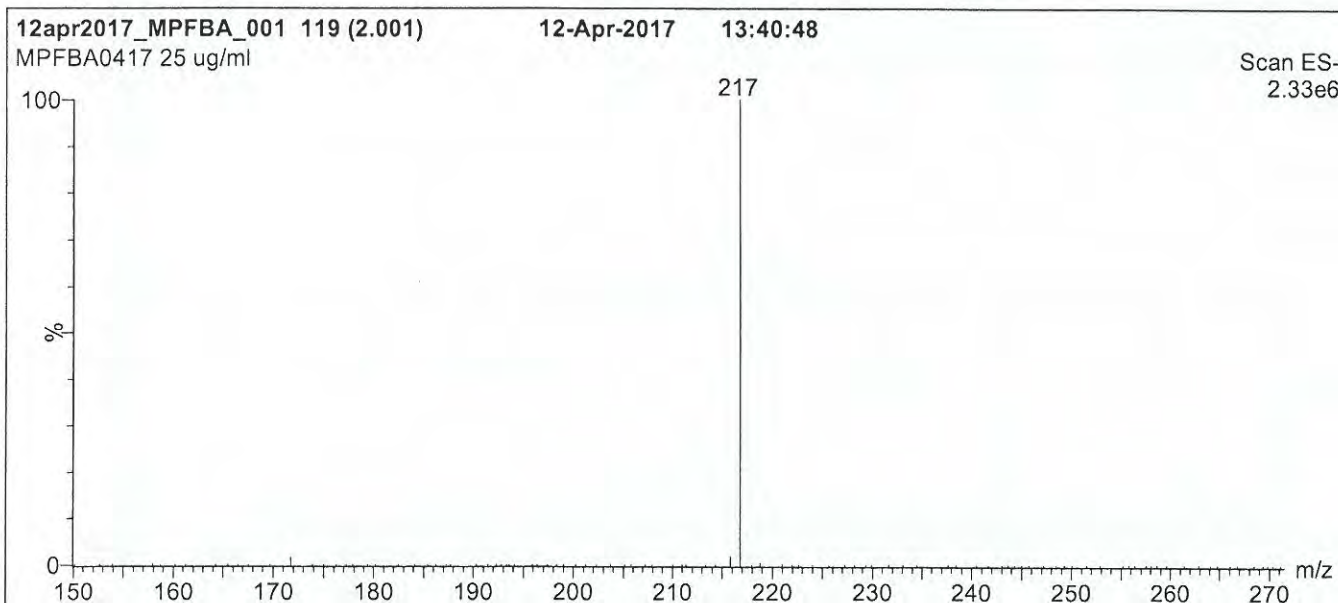
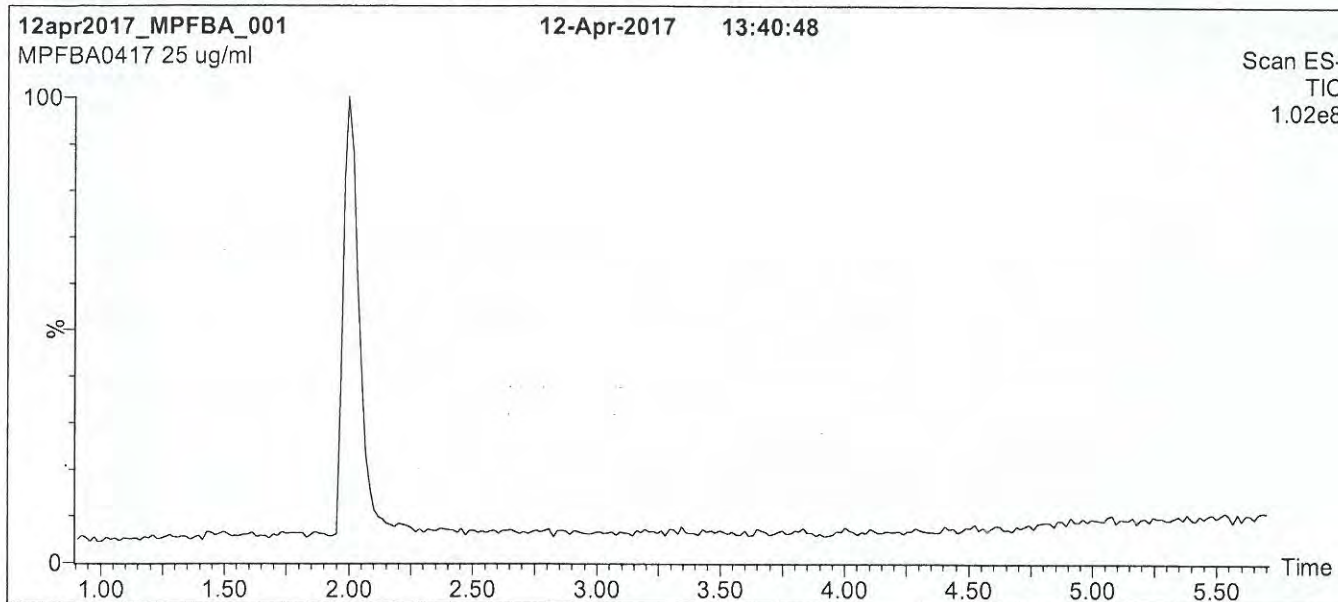
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17 F3036

Figure 1: MPFBA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

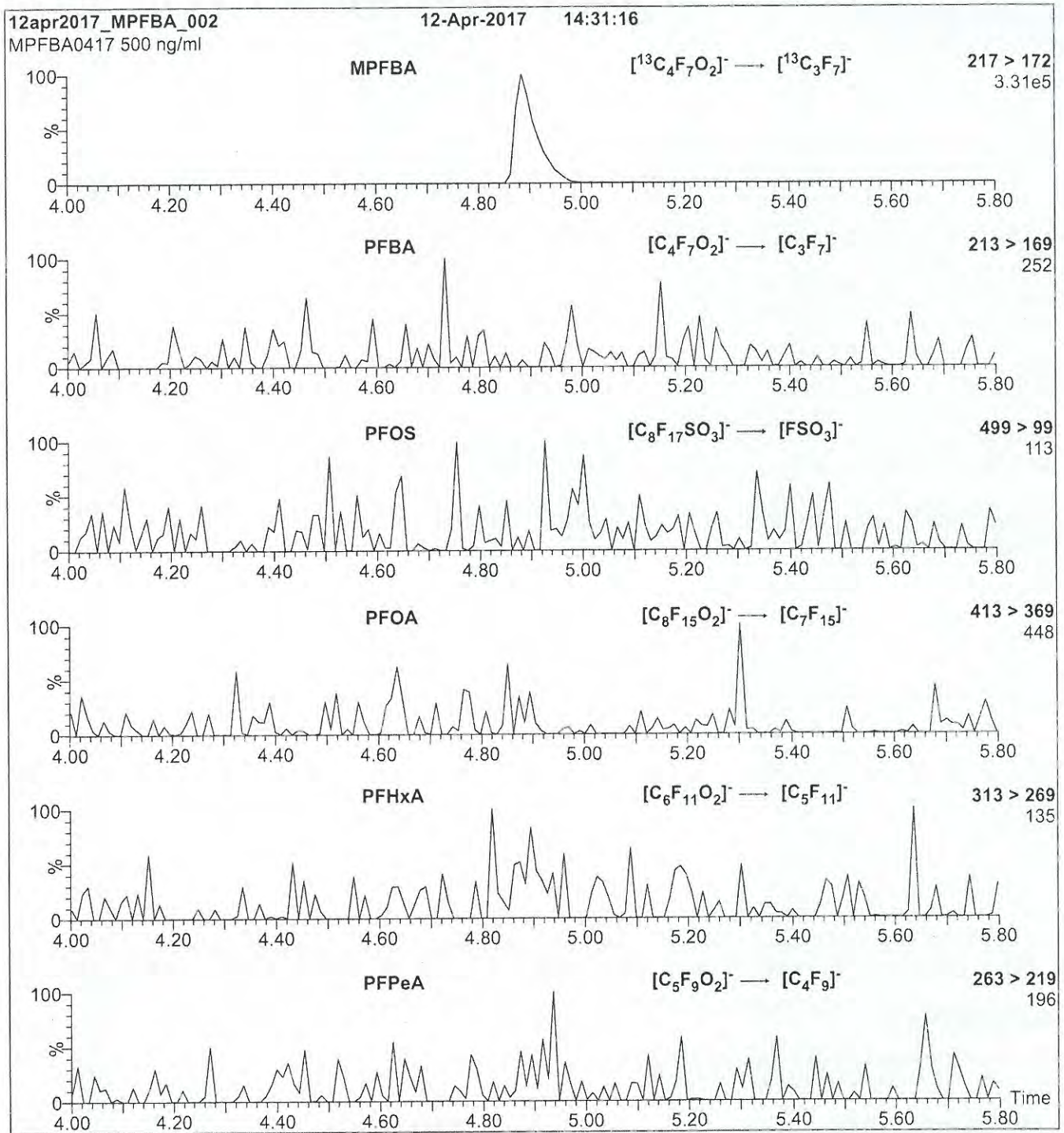
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17F3036

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MPFBA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 10

17F 3037

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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

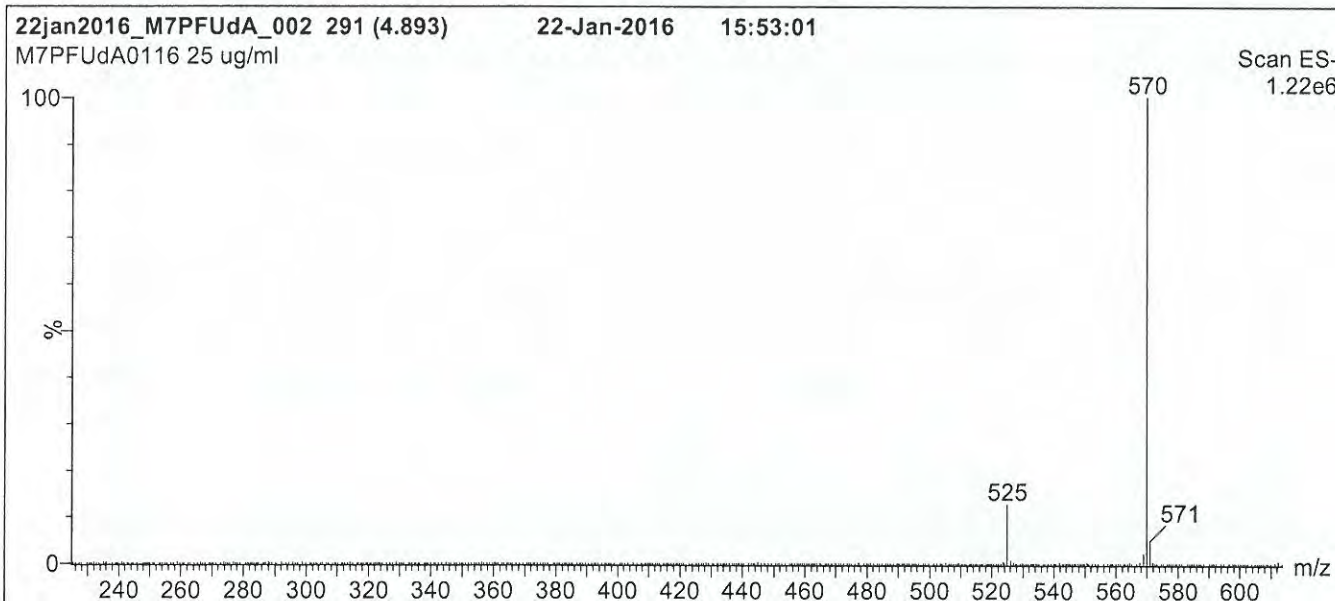
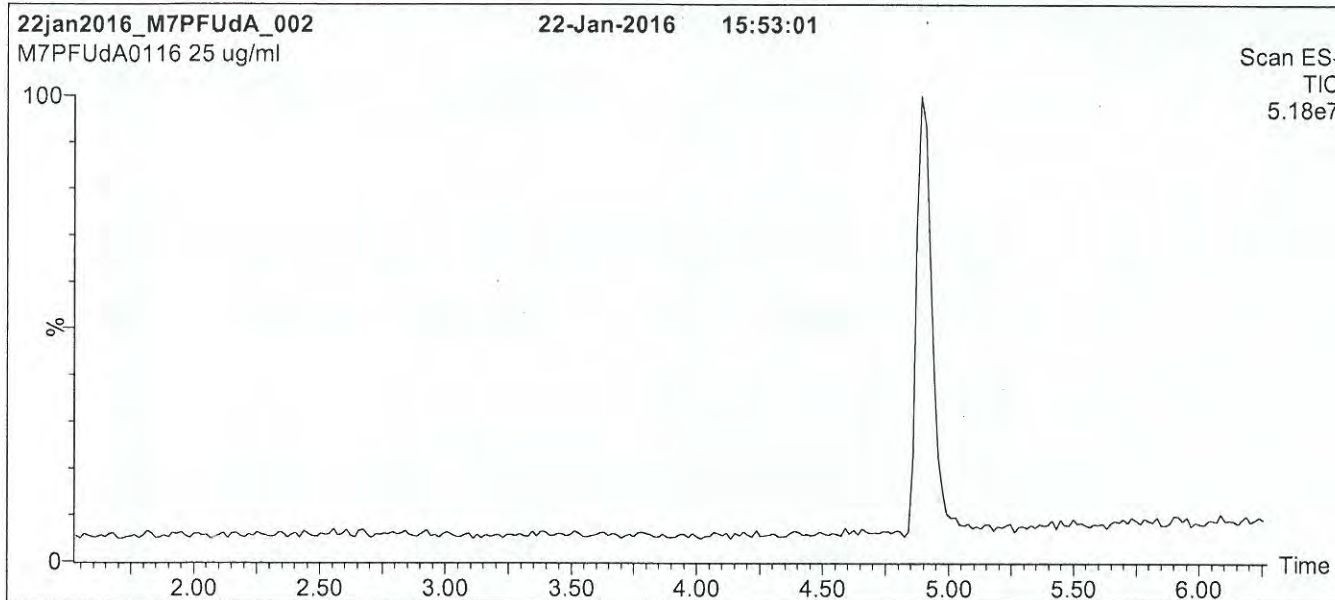
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17F3037

Figure 1: M7PFUdA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

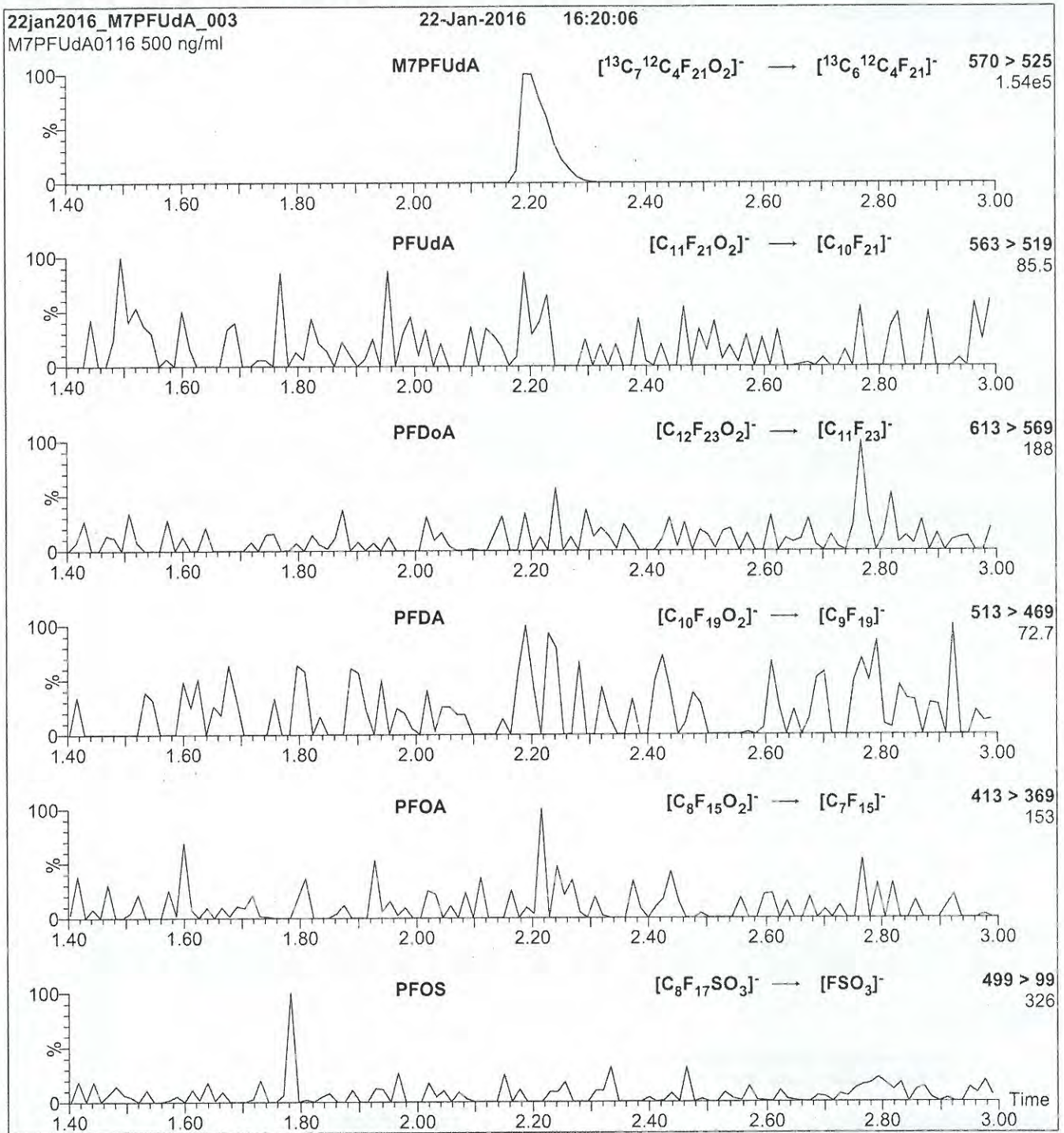
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 65
Desolvation Gas Flow (l/hr) = 750

17F3037

Figure 2: M7PFUdA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M7PFUdA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.50e-3
Collision Energy (eV) = 11

17G 1207


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION
PRODUCT CODE:

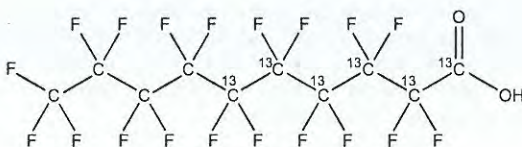
M6PFDA ✓

LOT NUMBER:

M6PFDA0516 ✓

COMPOUND:Perfluoro-n-[1,2,3,4,5,6-¹³C₆]decanoic acid**STRUCTURE:****CAS #:**

Not available

**MOLECULAR FORMULA:** $^{13}\text{C}_6\text{ }^{12}\text{C}_4\text{HF}_{19}\text{O}_2$ **MOLECULAR WEIGHT:**

520.04

CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):**

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

ISOTOPIC PURITY:≥99% ¹³C**LAST TESTED:** (mm/dd/yyyy)

05/31/2016

(1,2,3,4,5,6-¹³C₆)**EXPIRY DATE:** (mm/dd/yyyy)

05/31/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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

Date: 06/13/2016

(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

17G1207

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.

HAZARDS:

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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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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

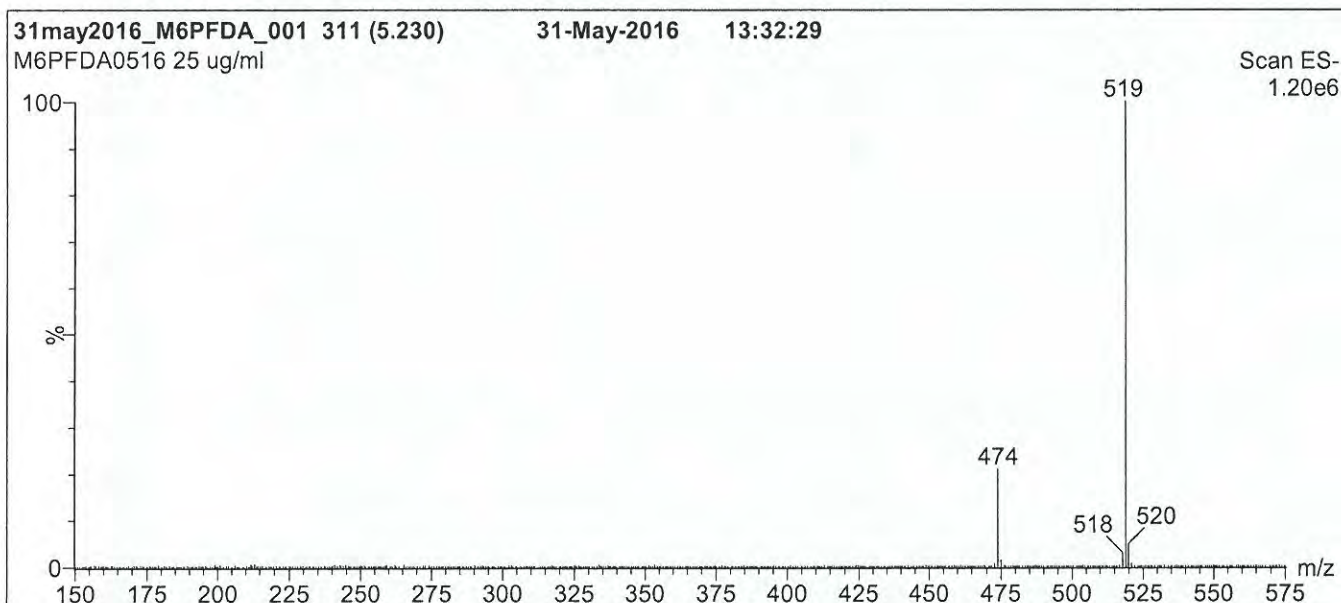
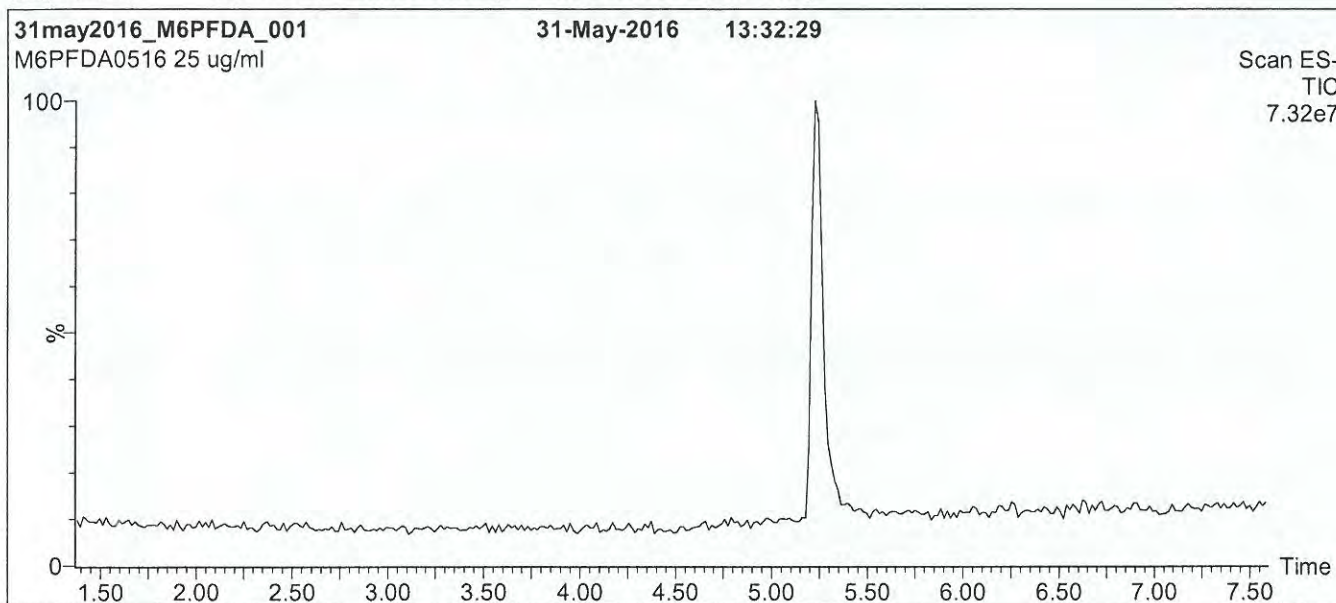
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1207

Figure 1: M6PFDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

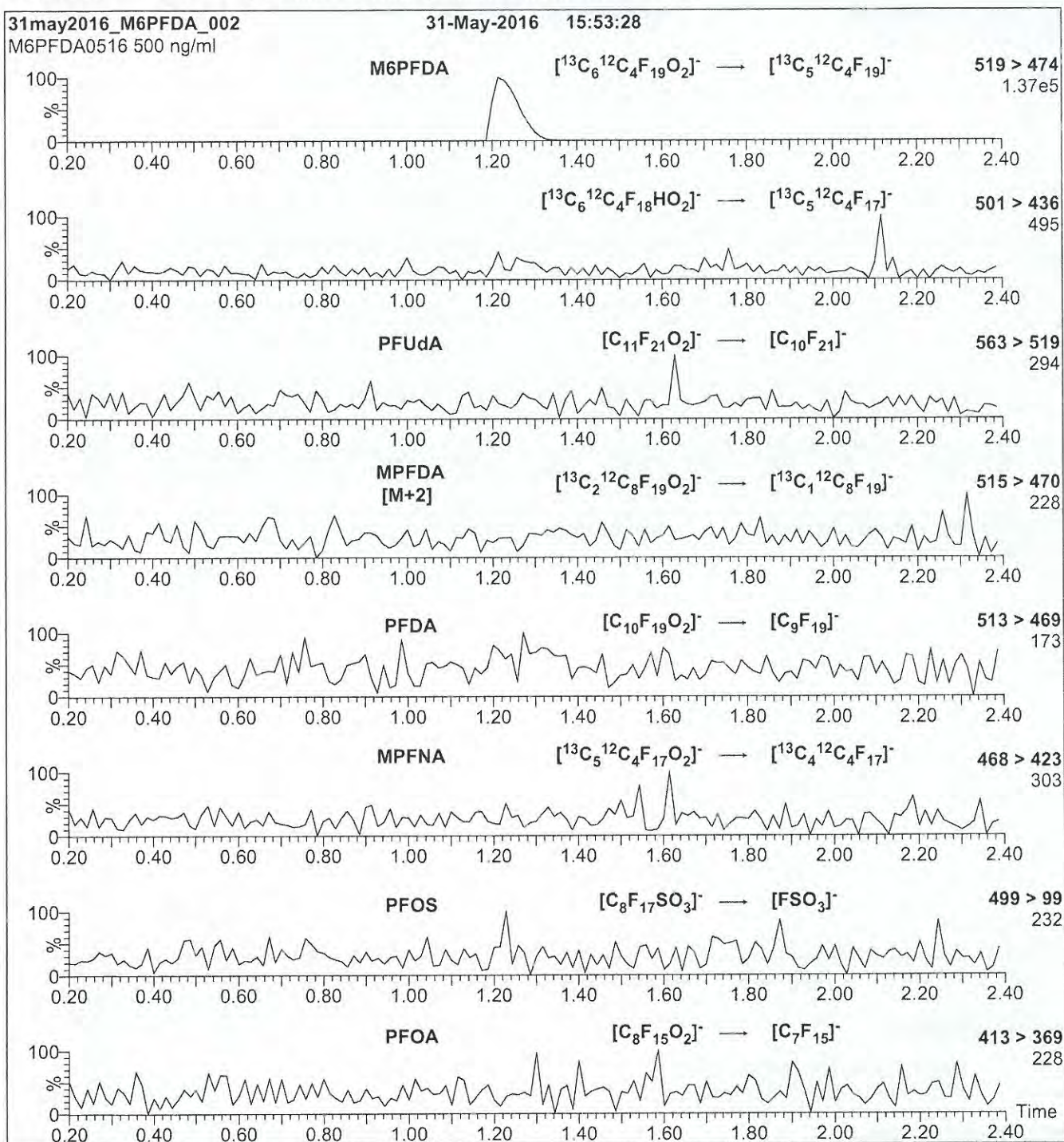
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1207

Figure 2: M6PFDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M6PFDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 13

17G1208 — 17G1302



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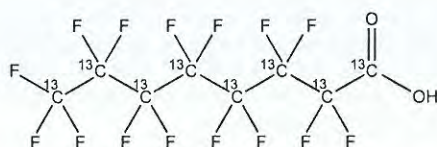
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M8PFOA ✓
COMPOUND: Perfluoro-n-[¹³C₈]octanoic acid

LOT NUMBER: M8PFOA0216 ✓

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: ¹³C₈H₁₅F₁₅O₂
CONCENTRATION: 49 ± 2.45 µg/ml

MOLECULAR WEIGHT: 422.01
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: 97.9% (M8PFOA)
2.1% (MPFOA [M+4])

ISOTOPIC PURITY: ≥99% ¹³C
(¹³C₈)

LAST TESTED: (mm/dd/yyyy) 02/12/2016

EXPIRY DATE: (mm/dd/yyyy) 02/12/2021

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC 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 < 0.1% of native perfluoro-n-octanoic acid (PFOA) and ~ 2.1% of [M+4] perfluoro-n-octanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 02/24/2016
(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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INTENDED USE:

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HAZARDS:

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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/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.

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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:

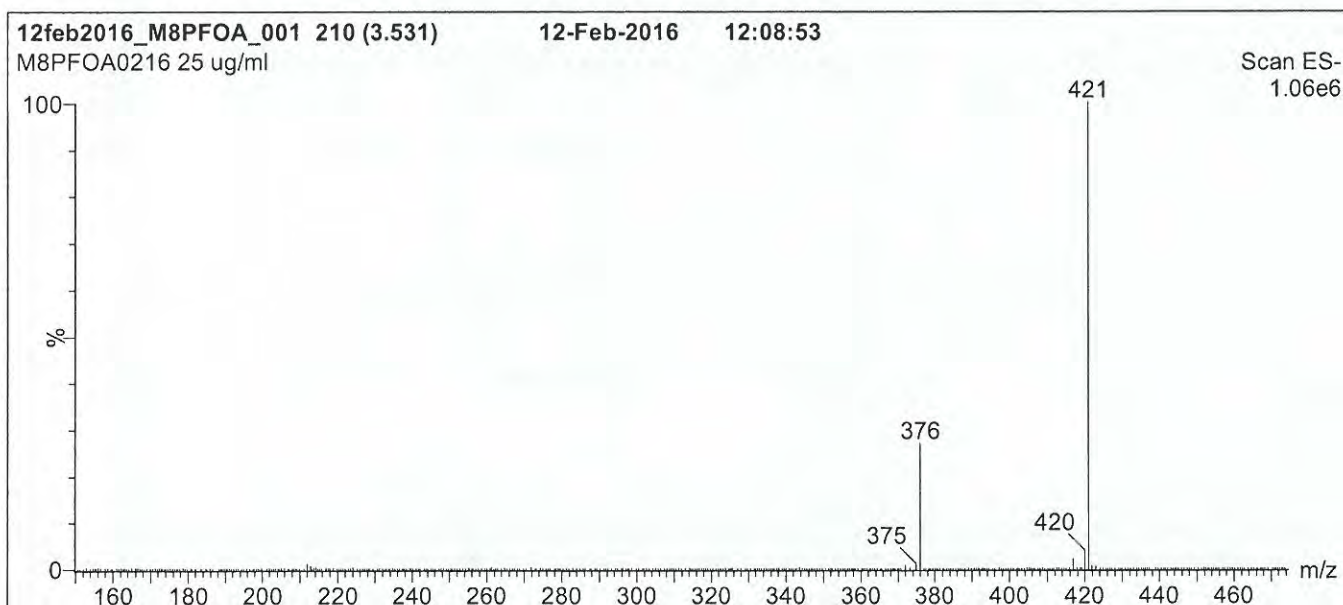
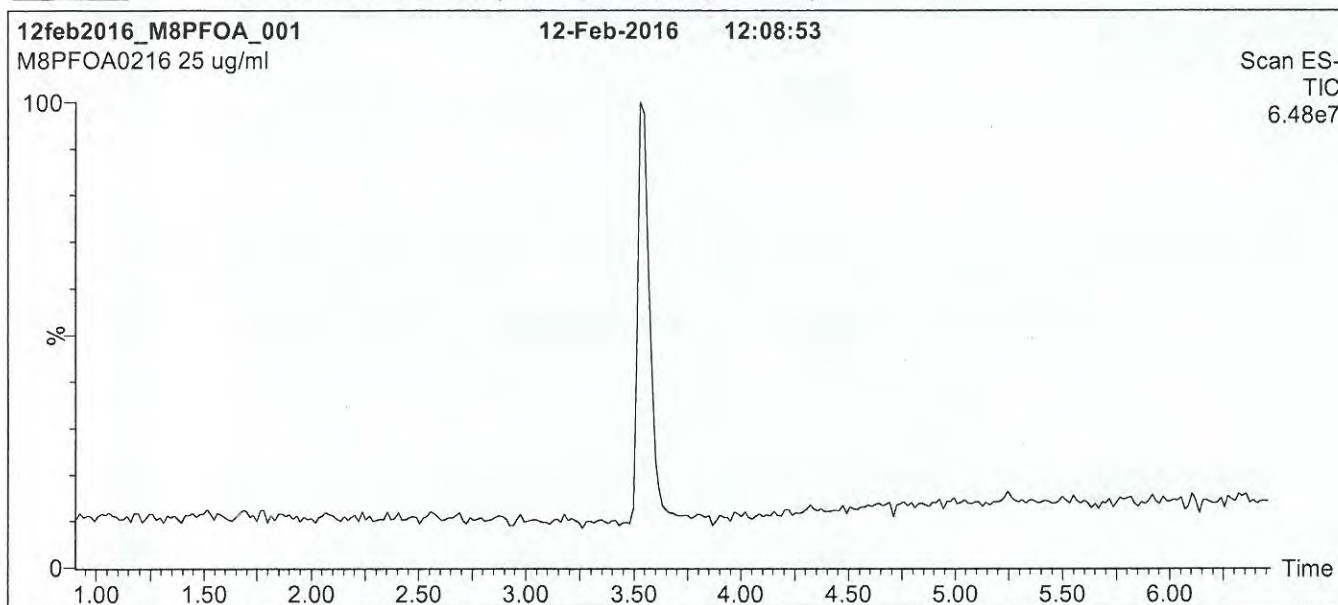
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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Figure 1: M8PFOA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

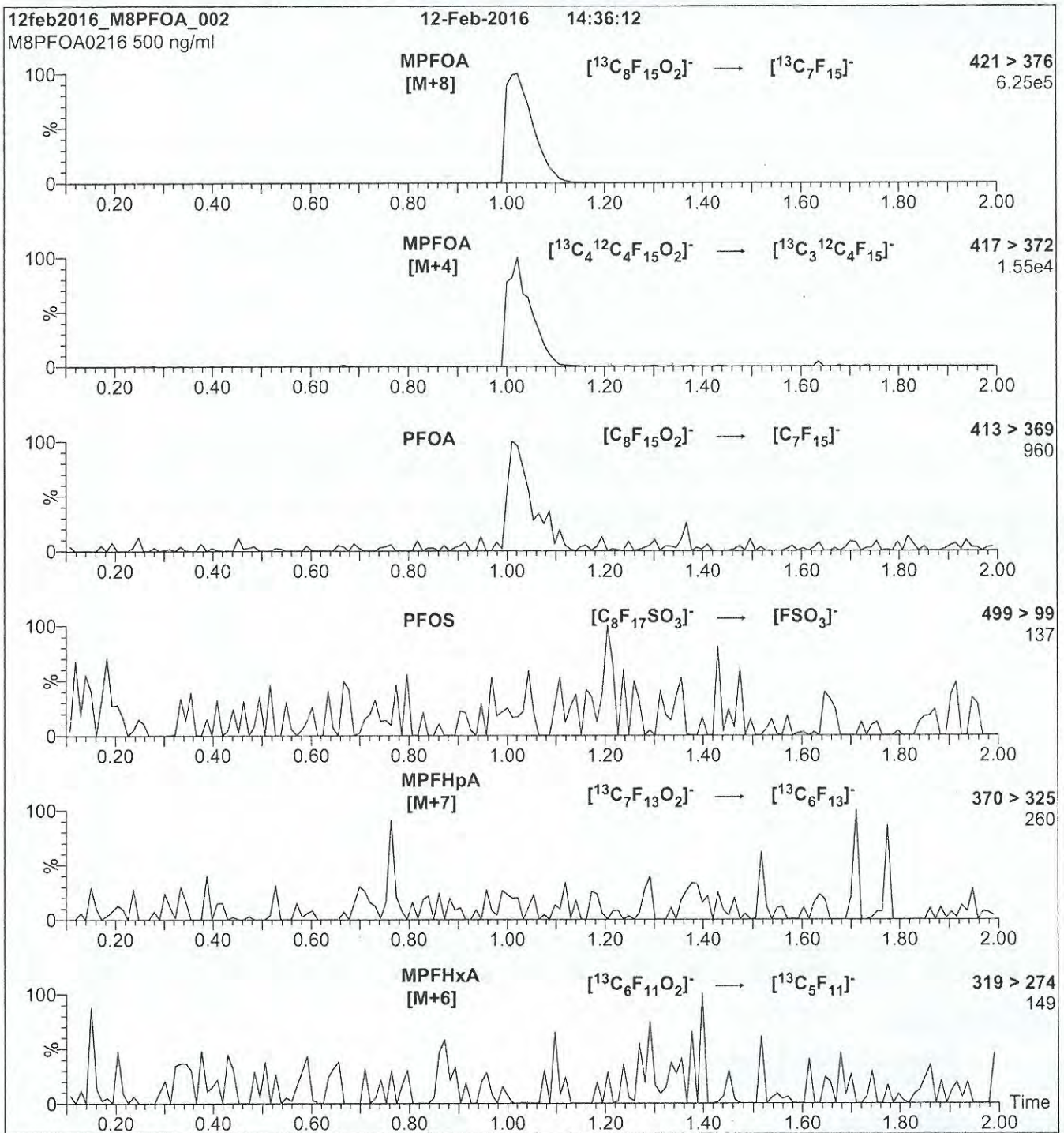
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

~~17G1208~~ 17G1302

Figure 2: M8PFOA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M8PFOA)

Mobile phase: Isocratic 80% MeOH / 20% H₂O

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 10

17 H0816

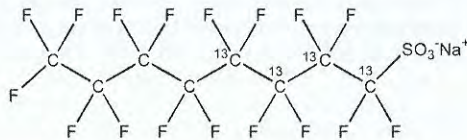


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MPFOS ✓ **LOT NUMBER:** MPFOS0517
COMPOUND: Sodium perfluoro-1-[1,2,3,4-¹³C₄]octanesulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₄¹²C₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 526.08
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.8 ± 2.4 µg/ml (MPFOS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 05/19/2017 (1,2,3,4-¹³C₄)
EXPIRY DATE: (mm/dd/yyyy) 05/19/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

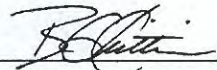
DOCUMENTATION/ DATA ATTACHED:

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

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.8% Sodium perfluoro-1-[1,2,3-¹³C₃]heptanesulfonate.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 05/30/2017
B.G. Chittim, General Manager (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:

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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, \dots, x_n on which it depends is:

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

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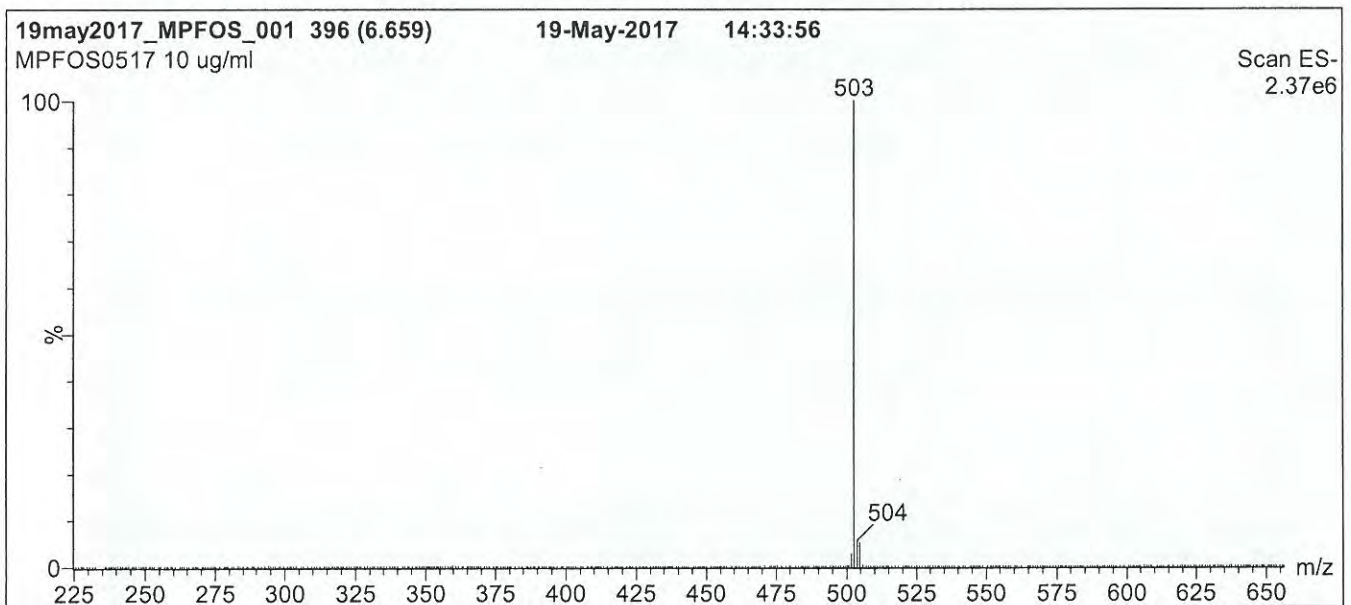
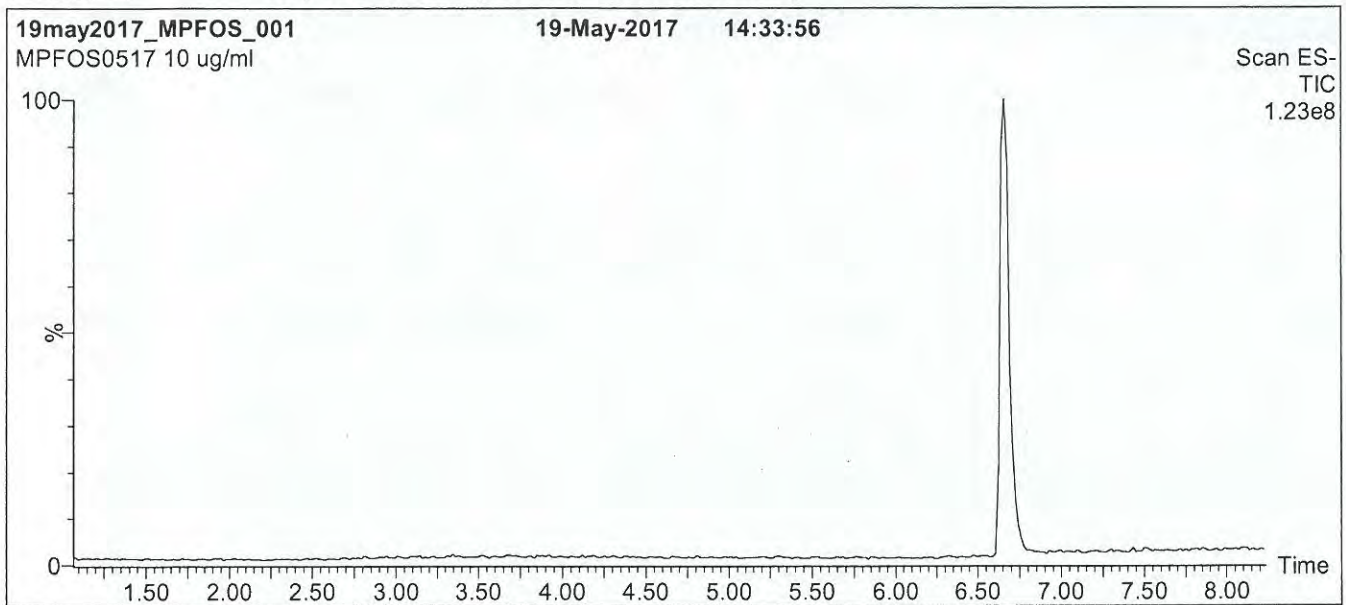
QUALITY MANAGEMENT:

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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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: MPFOS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 8 min and hold for 1 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

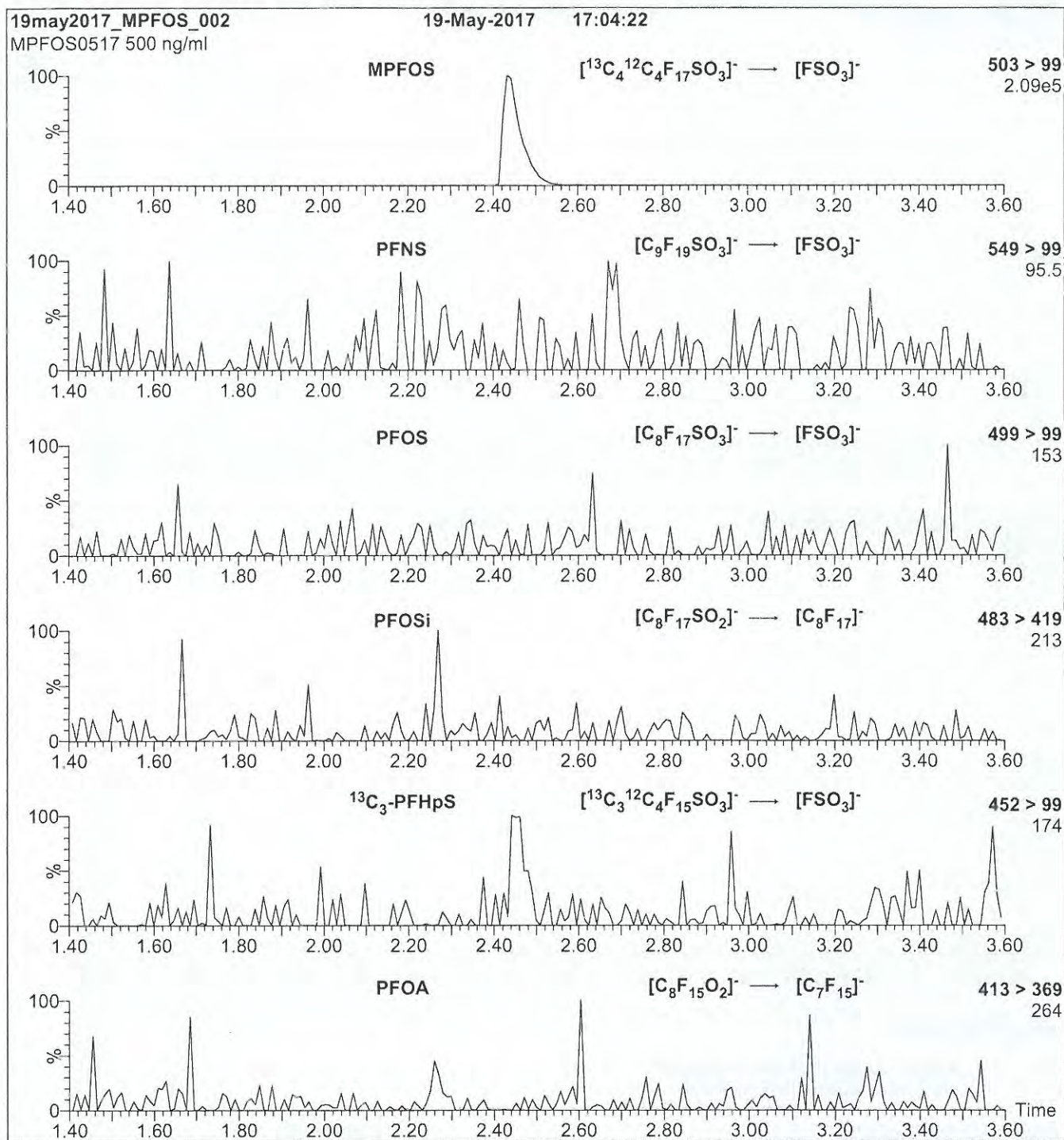
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 60.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MPFOS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 40

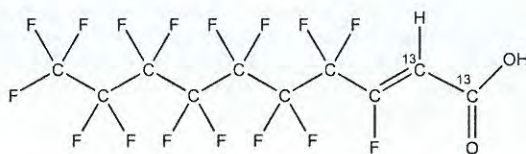
17140817



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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MFOUEA ✓
COMPOUND: 2H-Perfluoro-[1,2-¹³C₂]-2-decenoic acid
LOT NUMBER: MFOUEA0716
STRUCTURE:
CAS #: Not available



MOLECULAR FORMULA: ¹³C₂¹²C₈H₂F₁₆O₂
CONCENTRATION: 50 ± 2.5 µg/ml
MOLECULAR WEIGHT: 460.08
SOLVENT(S): Anhydrous Isopropanol
CHEMICAL PURITY: >98%
ISOTOPIC PURITY: ≥99% ¹³C (1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 08/02/2016
EXPIRY DATE: (mm/dd/yyyy) 08/02/2018
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

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

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Dilution of this standard in methanol may lead to the formation of 2H-3-methoxy-perfluoro-[1,2-¹³C₂]-2-decenoic acid. This reaction can be catalyzed by the presence of acid or base. All dilutions should be routinely checked for degradation.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim
Date: 08/19/2016
(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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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.

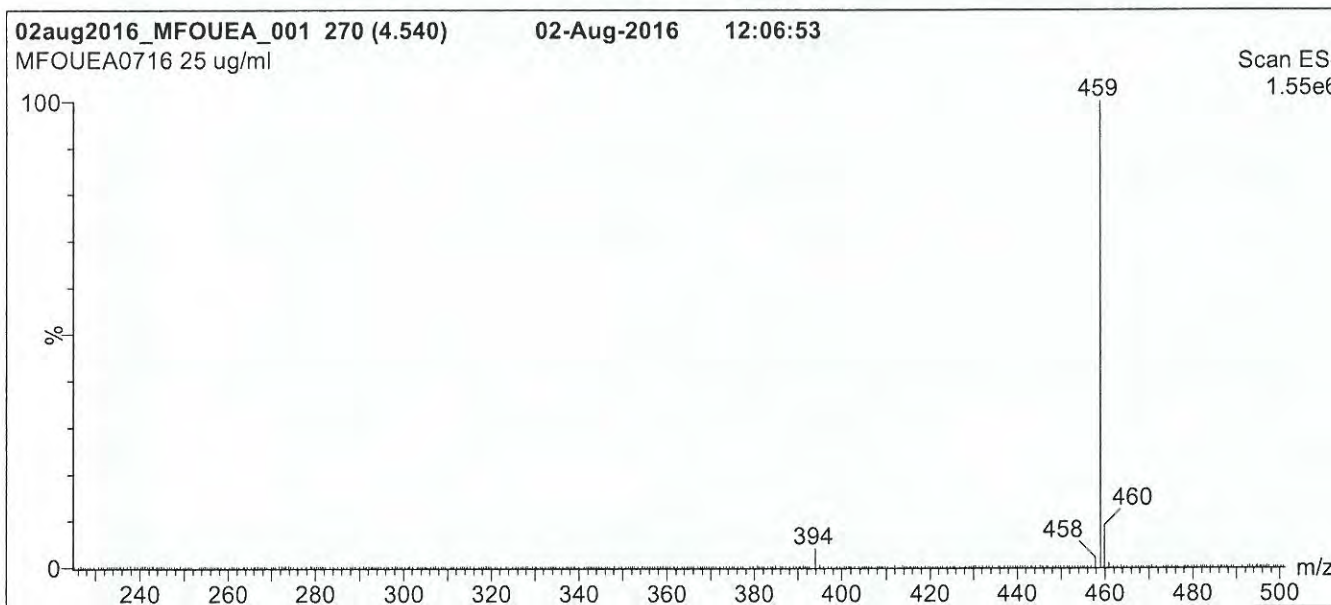
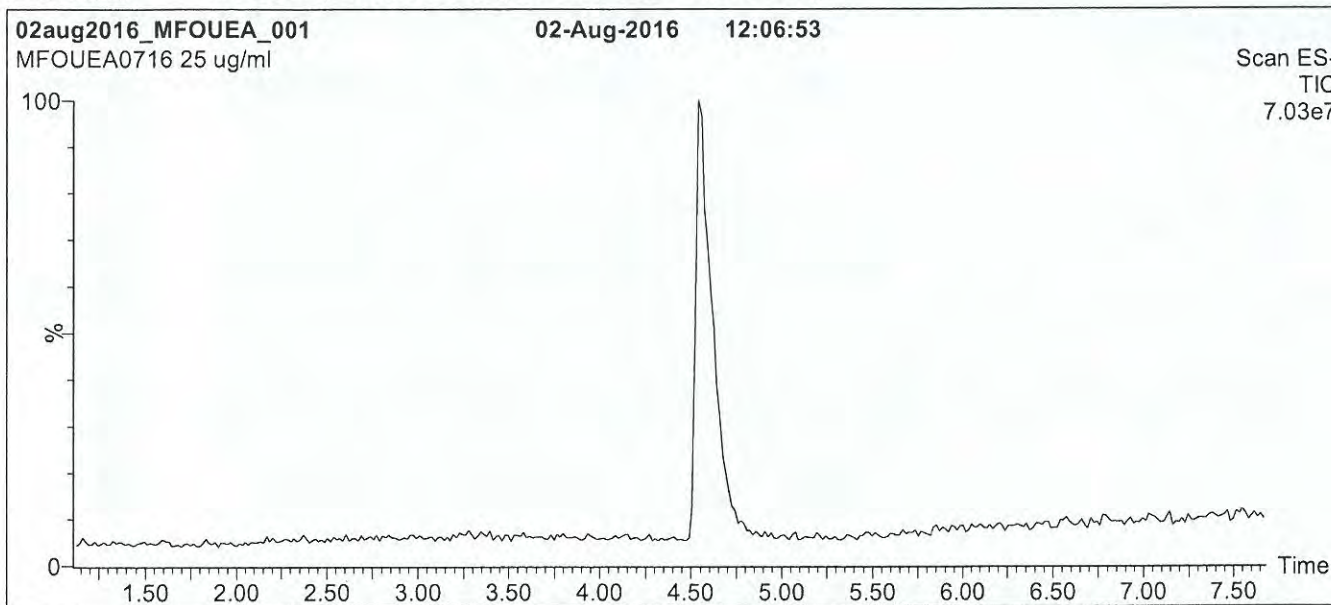
QUALITY MANAGEMENT:

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; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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Figure 1: MFOUEA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold
 for 1.5 min before returning to initial conditions in 0.5 min.
 Time: 10 min

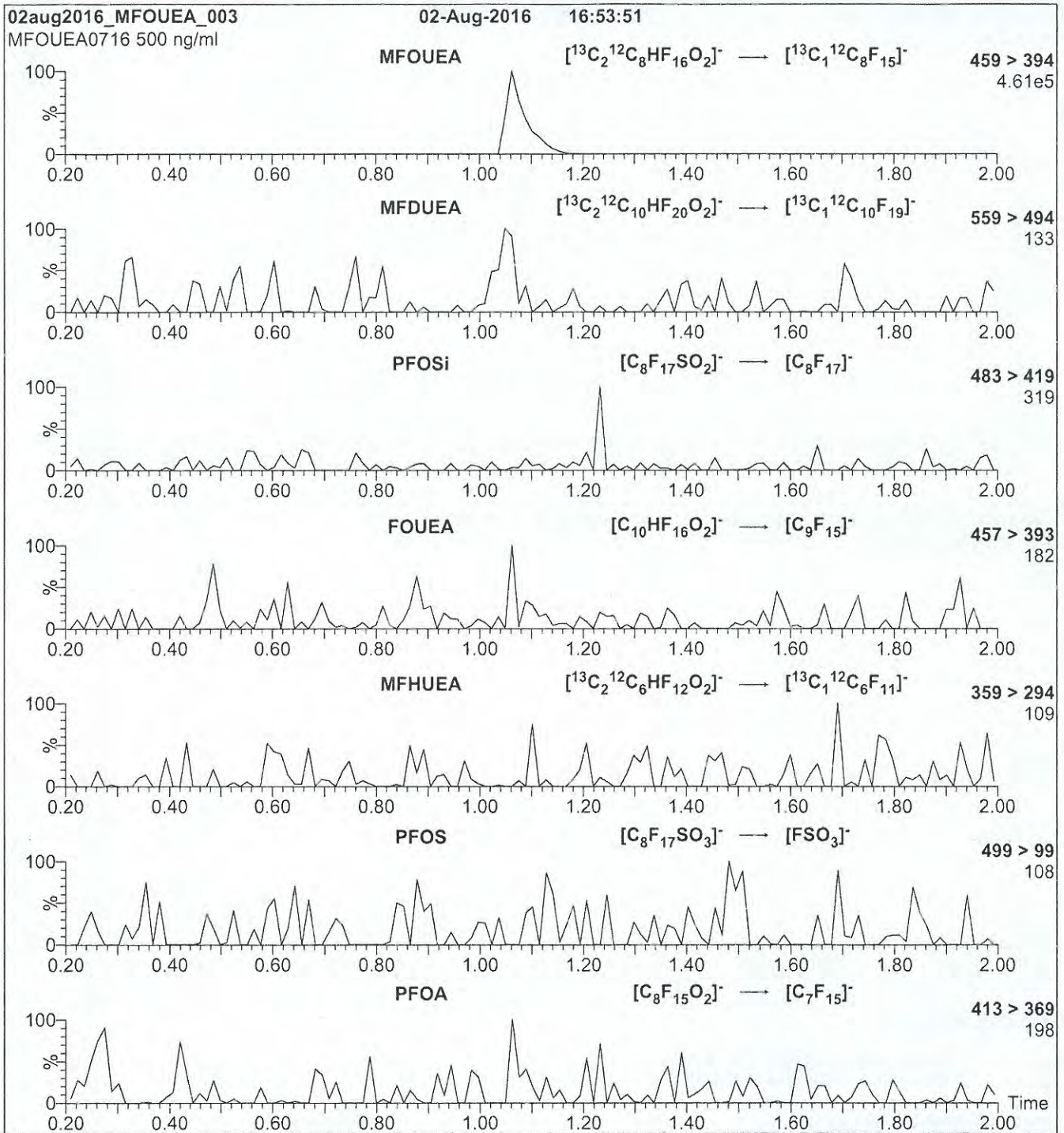
Flow: 300 μl/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 14.00
 Cone Gas Flow (l/hr) = 60
 Desolvation Gas Flow (l/hr) = 750

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



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MFOUEA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

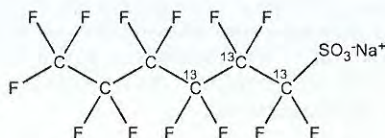
Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 21

17H0818


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: M3PFHxS ✓ **LOT NUMBER:** M3PFHxS0516
COMPOUND: Sodium perfluoro-1-[1,2,3-¹³C₃]hexanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²C₃F₁₃SO₃Na **MOLECULAR WEIGHT:** 425.07
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.3 ± 2.4 µg/ml (M3PFHxS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 05/31/2016 (1,2,3-¹³C₃)
EXPIRY DATE: (mm/dd/yyyy) 05/31/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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:

 B.G. Chittim

Date: 07/05/2016

(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.

HAZARDS:

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:

Where possible, all of our products are synthesized using single-product unambiguous routes. 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.

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, \dots, x_n on which it depends is:

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

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 $\pm 5\%$ (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 tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. 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.

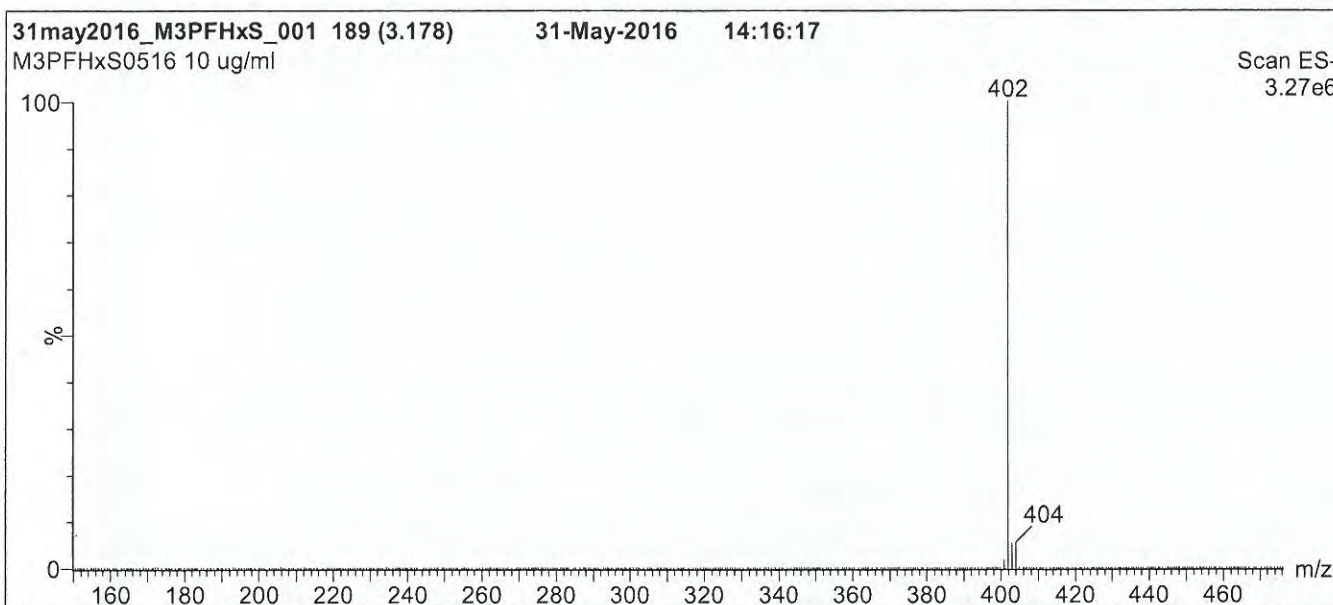
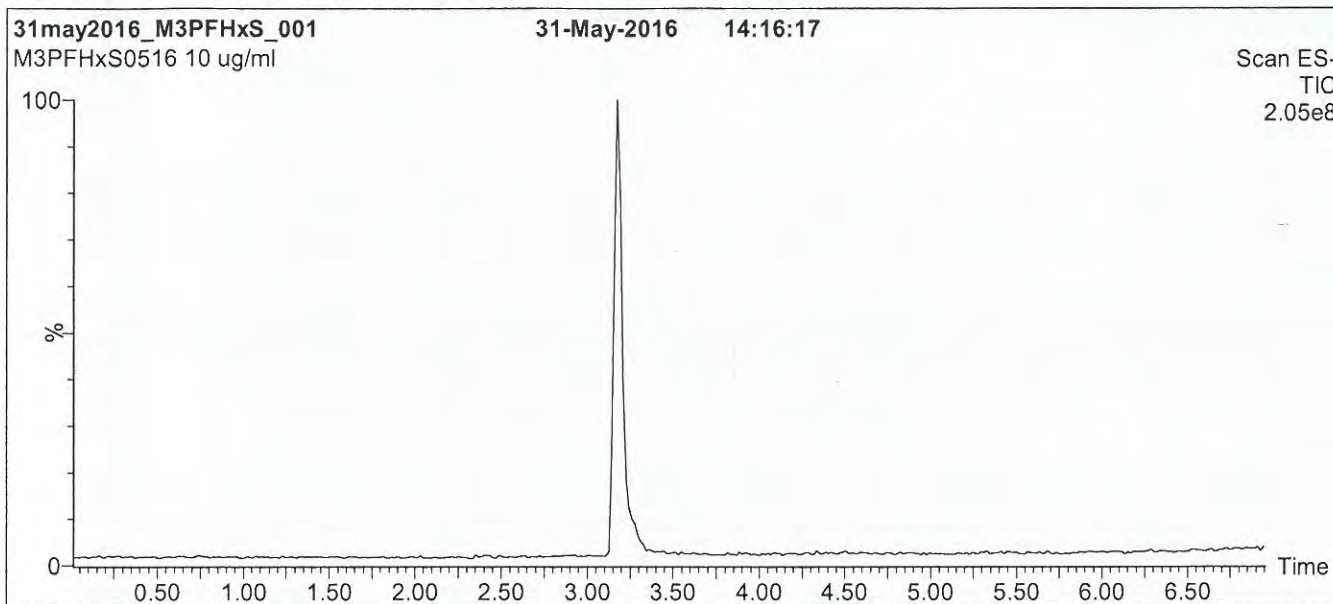
QUALITY MANAGEMENT:

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Figure 1: M3PFHxS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7.5 min and hold for
 1.5 min before returning to initial conditions in 0.5 min.
 Time: 10 min

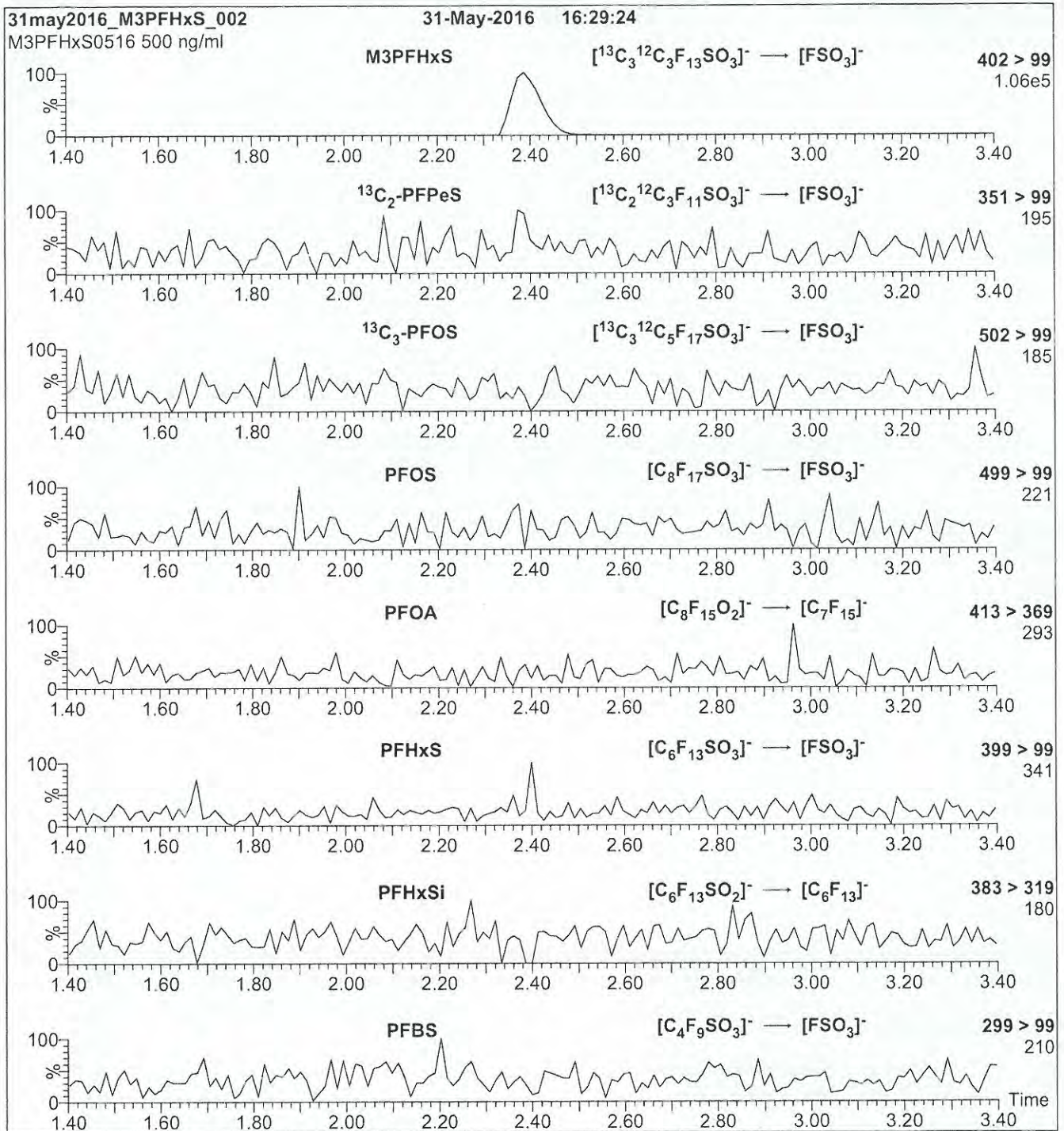
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 50.00
 Cone Gas Flow (l/hr) = 60
 Desolvation Gas Flow (l/hr) = 750

Figure 2: M3PFHxS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 µl (500 ng/ml M3PFHxS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
 Collision Energy (eV) = 30

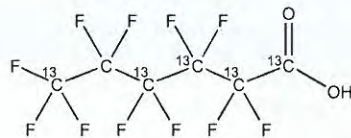
17140819


**WELLINGTON
LABORATORIES**
**CERTIFICATE OF ANALYSIS
DOCUMENTATION**

PRODUCT CODE: M5PFHxA ✓
COMPOUND: Perfluoro-n-[1,2,3,4,6-¹³C₅]hexanoic acid

LOT NUMBER: M5PFHxA0814

STRUCTURE:
CAS #: Not available



MOLECULAR FORMULA: ¹³C₅¹²C₁HF₁₁O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 319.02

SOLVENT(S): Methanol
 Water (<1%)

CHEMICAL PURITY: >98%

ISOTOPIC PURITY: ≥99% ¹³C
 (1,2,3,4,6-¹³C₅)

LAST TESTED: (mm/dd/yyyy) 08/27/2014

EXPIRY DATE: (mm/dd/yyyy) 08/27/2019

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC 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

Date: 03/31/2015
 (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.

HAZARDS:

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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LIMITED WARRANTY:

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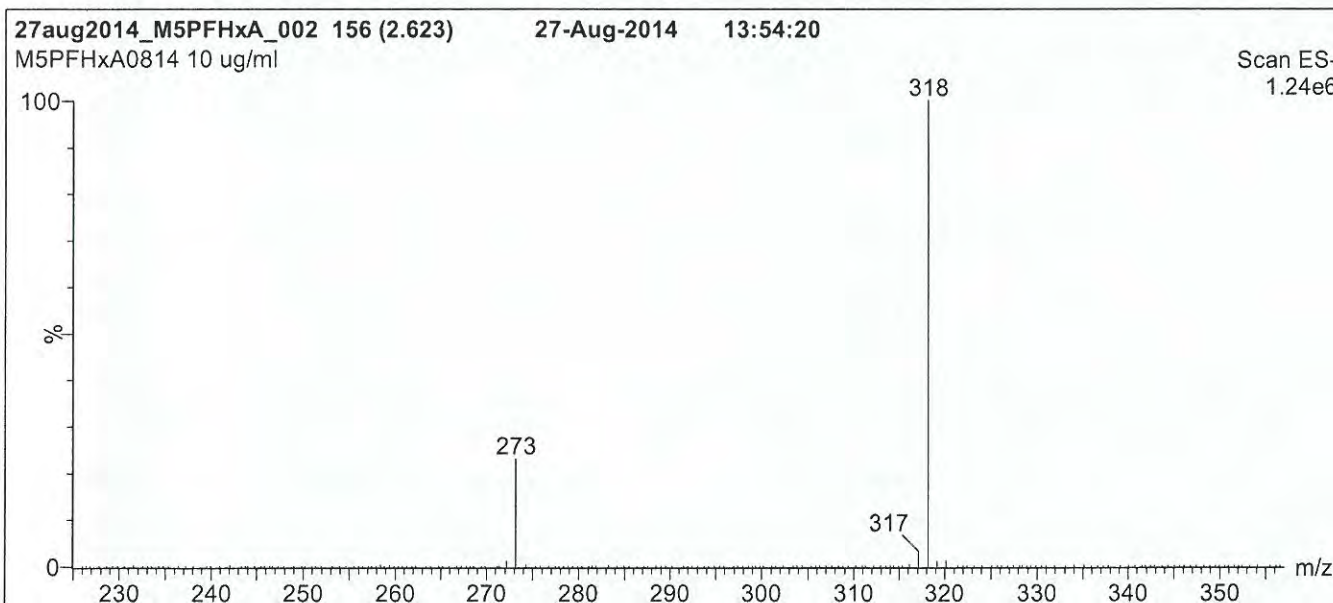
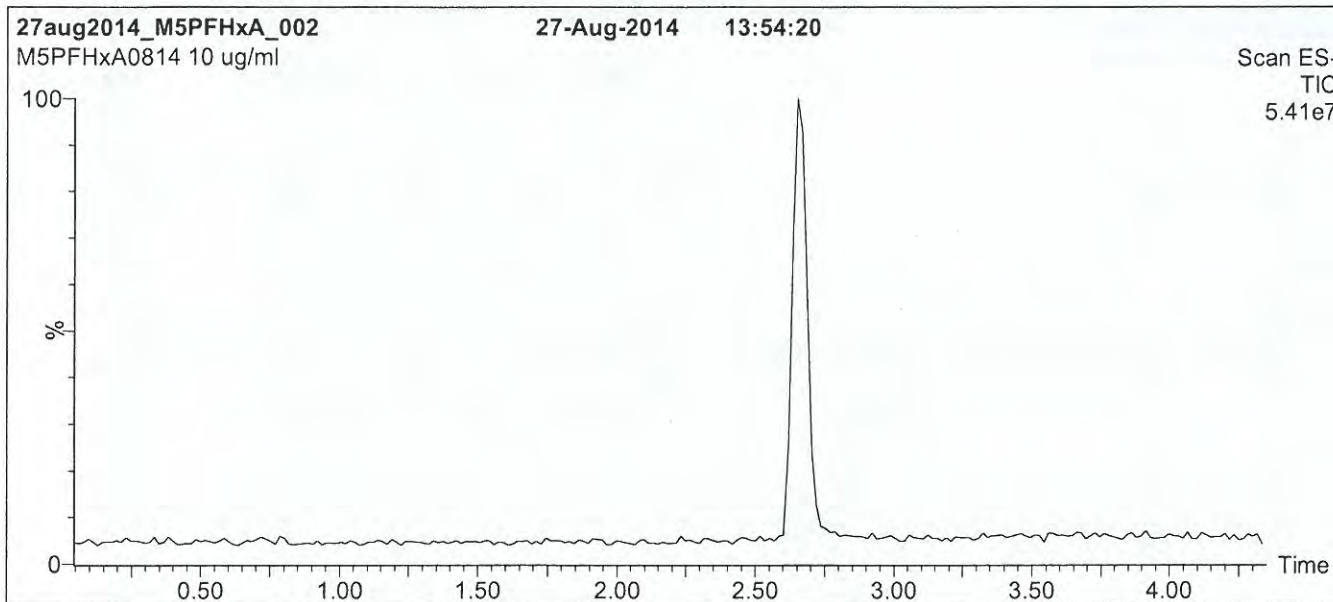
QUALITY MANAGEMENT:

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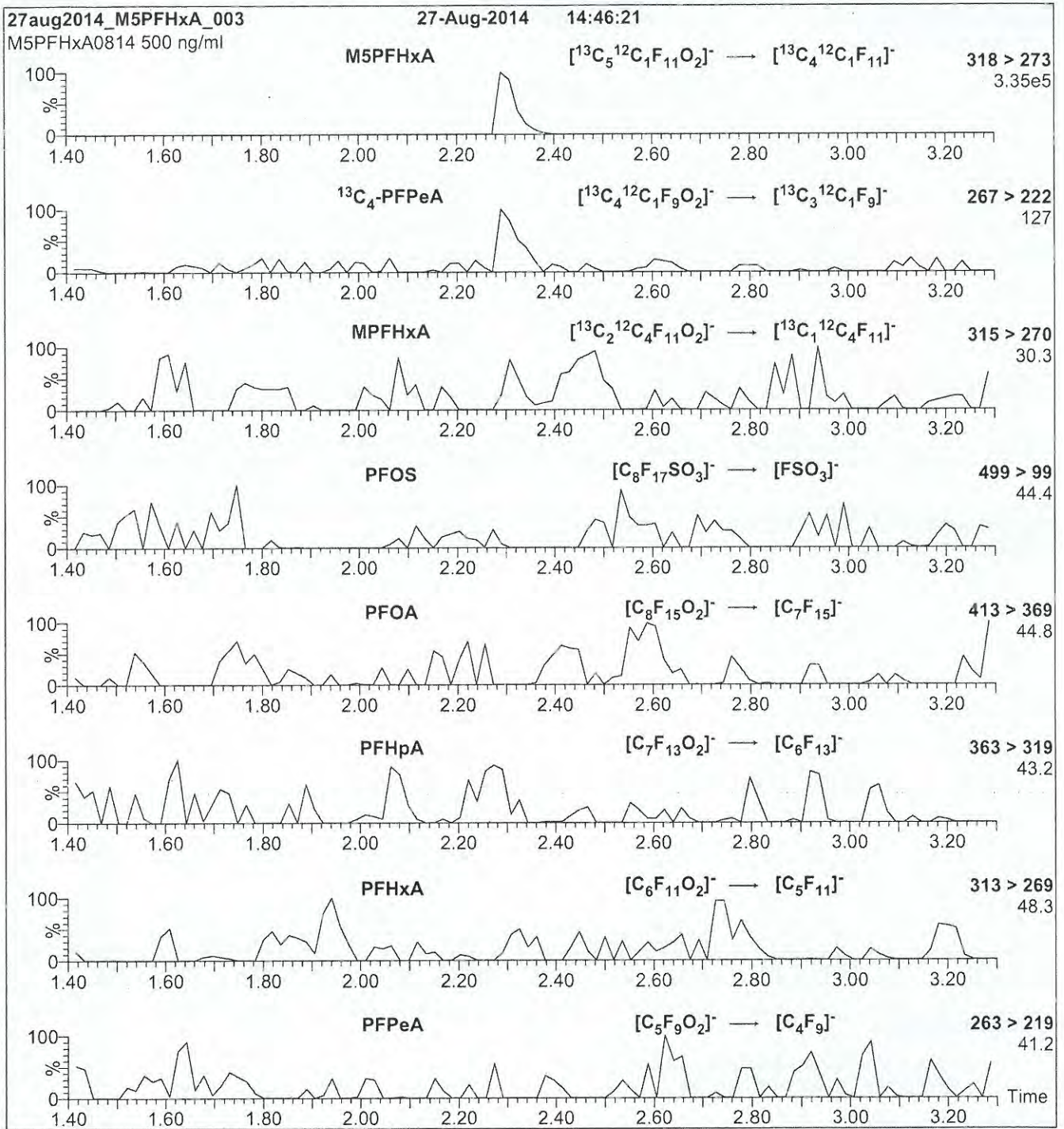
For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M5PFHxA; LC/MS Data (TIC and Mass Spectrum)



<u>Conditions for Figure 1:</u>	
LC:	Waters Acquity Ultra Performance LC
MS:	Micromass Quattro <i>micro</i> API MS
Chromatographic Conditions	
Column:	Acquity UPLC BEH Shield RP ₁₈ 1.7 μm, 2.1 x 100 mm
Mobile phase:	Gradient Start: 40% (80:20 MeOH:ACN) / 60% H ₂ O (both with 10 mM NH ₄ OAc buffer) Ramp to 90% organic over 7 min and hold for 1.5 min before returning to initial conditions in 0.5 min. Time: 10 min
Flow:	300 μl/min
MS Parameters	
Experiment: Full Scan (225 - 850 amu)	
Source: Electrospray (negative)	
Capillary Voltage (kV) = 2.00	
Cone Voltage (V) = 15.00	
Cone Gas Flow (l/hr) = 100	
Desolvation Gas Flow (l/hr) = 750	

Figure 2: M5PFHxA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M5PFHxA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.54e-3
Collision Energy (eV) = 10

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"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","375-95-1","PFNA","5.34","ng/L","U","0.866","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","335-76-2","PFDA","5.34","ng/L","U","1.59","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","2355-31-9","MeFOSAA","5.34","ng/L","U","1.76","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","2058-94-8","PFUnA","5.34","ng/L","U","1.12","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","2991-50-6","EtFOSAA","5.34","ng/L","U","1.46","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","307-55-1","PFDaA","5.34","ng/L","U","0.846","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","72629-94-8","PFTTrDA","5.34","ng/L","U","0.528","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","376-06-7","PFTeDA","5.34","ng/L","U","0.807","LOD","",,"TRG","",,"",,"8.55","LOQ","YES","-99","",,"0.117","0.001","5.34",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","13C3-PFBS","13C3-PFBS","171","%R","H","-99","NA","",,"IS","171","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","13C2-PFHxA","13C2-PFHxA","104","%R","",,"-99","NA","",,"IS","104","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","13C4-PFHpA","13C4-PFHpA","97.5","%R","",,"-99","NA","",,"IS","97.5","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","18O2-PFHxS","18O2-PFHxS","95.1","%R","",,"-99","NA","",,"IS","95.1","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","13C2-PFOA","13C2-PFOA","106","%R","",,"-99","NA","",,"IS","106","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","13C8-PFOS","13C8-PFOS","96.7","%R","",,"-99","NA","",,"IS","96.7","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","13C5-PFNA","13C5-PFNA","99.4","%R","",,"-99","NA","",,"IS","99.4","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","13C2-PFDA","13C2-PFDA","88.6","%R","",,"-99","NA","",,"IS","88.6","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
"GR-OF-20170918","Modified EPA Method 537","Initial","1701279-01","Vista","d3-MeFOSAA","d3-MeFOSAA","82.4","%R","",,"-99","NA","",,"IS","82.4","",,"-99","NA","YES","100","",,"0.117","0.001","-99",""
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EtFOSAA", "85.1", "%R", "", "-99", "NA", "", "IS", "85.1", "", "-99", "NA", "YES", "100", "", "0.117", "0.001", "-99", ""
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"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "375-73-
5", "PFBS", "133", "ng/L", "", "1.92", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "307-24-
4", "PFHxA", "590", "ng/L", "", "2.34", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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9", "PFHpA", "193", "ng/L", "", "0.635", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "355-46-
4", "PFHxS", "768", "ng/L", "", "1.02", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "335-67-
1", "PFOA", "78.4", "ng/L", "", "0.700", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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1", "PFOS", "1740", "ng/L", "", "0.867", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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1", "PFNA", "7.22", "ng/L", "J", "0.871", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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2", "PFDA", "1.83", "ng/L", "J", "1.60", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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9", "MeFOSAA", "5.39", "ng/L", "U", "1.77", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "2058-94-
8", "PFUnA", "5.39", "ng/L", "U", "1.13", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "2991-50-
6", "EtFOSAA", "5.39", "ng/L", "U", "1.47", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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1", "PFDoA", "5.39", "ng/L", "U", "0.851", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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8", "PFTeDA", "5.39", "ng/L", "U", "0.531", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
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7", "PFTeDA", "5.39", "ng/L", "U", "0.812", "LOD", "", "TRG", "", "", "8.60", "LOQ", "YES", "-99", "", "0.116", "0.001", "5.39", ""
"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "13C3-PFBS", "13C3-
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"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "13C2-PFHxA", "13C2-
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"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "13C4-PFHpA", "13C4-
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"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "18O2-PFHxS", "18O2-
PFHxS", "114", "%R", "", "-99", "NA", "", "IS", "114", "", "-99", "NA", "YES", "100", "", "0.116", "0.001", "-99", ""
"MH-117N-20170918", "Modified EPA Method 537", "Initial", "1701279-02", "Vista", "13C2-PFOA", "13C2-
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MeFOSAA", "83.3", "%R", "", "-99", "NA", "", "IS", "83.3", "", "-99", "NA", "YES", "100", "", "0.116", "0.001", "-99", ""
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"MH-117T-20170918", "Modified EPA Method 537", "Initial", "1701279-03", "Vista", "375-73-
5", "PFBS", "93.7", "ng/L", "", "2.02", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
"MH-117T-20170918", "Modified EPA Method 537", "Initial", "1701279-03", "Vista", "307-24-
4", "PFHxA", "444", "ng/L", "", "2.46", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
"MH-117T-20170918", "Modified EPA Method 537", "Initial", "1701279-03", "Vista", "375-85-
9", "PFHpA", "136", "ng/L", "", "0.667", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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4", "PFHxS", "550", "ng/L", "", "1.07", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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1", "PFOA", "60.1", "ng/L", "", "0.735", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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1", "PFNA", "4.31", "ng/L", "J", "0.915", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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2", "PFDA", "2.15", "ng/L", "J", "1.68", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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9", "MeFOSAA", "5.63", "ng/L", "U", "1.86", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
"MH-117T-20170918", "Modified EPA Method 537", "Initial", "1701279-03", "Vista", "2058-94-
8", "PFUnA", "5.63", "ng/L", "U", "1.19", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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6", "EtFOSAA", "5.63", "ng/L", "U", "1.55", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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7", "PFTeDA", "5.63", "ng/L", "U", "0.853", "LOD", "", "TRG", "", "", "9.03", "LOQ", "YES", "-99", "", "0.111", "0.001", "5.63", ""
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PFHxA", "104", "%R", "", "-99", "NA", "", "IS", "104", "", "-99", "NA", "YES", "100", "", "0.111", "0.001", "-99", ""
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PFHxS", "103", "%R", "", "-99", "NA", "", "IS", "103", "", "-99", "NA", "YES", "100", "", "0.111", "0.001", "-99", ""
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"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "375-73-
5", "PFBS", "164", "ng/L", "", "2.13", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "307-24-
4", "PFHxA", "770", "ng/L", "", "2.60", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "375-85-
9", "PFHpA", "223", "ng/L", "", "0.704", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "355-46-
4", "PFHxS", "1170", "ng/L", "", "1.13", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "335-67-
1", "PFOA", "123", "ng/L", "", "0.775", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Dilution", "1701279-04", "Vista", "1763-23-
1", "PFOS", "4240", "ng/L", "D", "4.80", "LOD", "", "TRG", "", "", "47.6", "LOQ", "YES", "-99", "", "0.105", "0.001", "29.8", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "375-95-
1", "PFNA", "16.2", "ng/L", "", "0.964", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "335-76-
2", "PFDA", "5.70", "ng/L", "J", "1.77", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "2355-31-
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8", "PFUnA", "5.95", "ng/L", "U", "1.25", "LOD", "", "TRG", "", "", "9.53", "LOQ", "YES", "-99", "", "0.105", "0.001", "5.95", ""
"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "2991-50-
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"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "13C2-PFHxA", "13C2-
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"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "13C2-PFDA", "13C2-
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"MH-118.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-04", "Vista", "d3-MeFOSAA", "d3-
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8", "PFUnA", "5.53", "ng/L", "U", "1.16", "LOD", "", "TRG", "", "", "8.87", "LOQ", "YES", "-99", "", "0.113", "0.001", "5.53", ""
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"MH-118.5T-20170918", "Modified EPA Method 537", "Initial", "1701279-05", "Vista", "13C4-PFHpA", "13C4-

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"MH-118.5T-20170918", "Modified EPA Method 537", "Initial", "1701279-05", "Vista", "18O2-PFHxS", "18O2-
PFHxS", "115", "%R", "", "-99", "NA", "", "IS", "115", "", "-99", "NA", "YES", "100", "", "0.113", "0.001", "-99", ""
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"MH-118.5T-20170918", "Modified EPA Method 537", "Initial", "1701279-05", "Vista", "d5-EtFOSAA", "d5-
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"MH-121.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-06", "Vista", "375-73-
5", "PFBS", "4.28", "ng/L", "J", "1.98", "LOD", "", "TRG", "", "", "8.83", "LOQ", "YES", "-99", "", "0.113", "0.001", "5.53", ""
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9", "PFHpA", "156", "ng/L", "", "0.653", "LOD", "", "TRG", "", "", "8.83", "LOQ", "YES", "-99", "", "0.113", "0.001", "5.53", ""
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"MH-121.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-06", "Vista", "2991-50-
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"MH-121.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-06", "Vista", "72629-94-
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"MH-121.5N-20170918", "Modified EPA Method 537", "Initial", "1701279-06", "Vista", "376-06-
7", "PFTeDA", "5.53", "ng/L", "U", "0.834", "LOD", "", "TRG", "", "", "8.83", "LOQ", "YES", "-99", "", "0.113", "0.001", "5.53", ""
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"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","307-24-
4","PFHxA","31.4","ng/L","","2.50","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","375-85-
9","PFHpA","19.2","ng/L","","0.677","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","355-46-
4","PFHxS","2.90","ng/L","J","1.08","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","335-67-
1","PFOA","9.10","ng/L","J","0.746","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","1763-23-
1","PFOS","5.71","ng/L","J","0.924","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","375-95-
1","PFNA","1.84","ng/L","J","0.928","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","335-76-
2","PFDA","5.73","ng/L","U","1.71","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","2355-31-
9","MeFOSAA","5.73","ng/L","U","1.89","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","2058-94-
8","PFUnA","5.73","ng/L","U","1.20","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","2991-50-
6","EtFOSAA","5.73","ng/L","U","1.57","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","307-55-
1","PFDoA","5.73","ng/L","U","0.907","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","72629-94-
8","PFTeDA","5.73","ng/L","U","0.566","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",""
"

"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","376-06-7","PFTeDA","5.73","ng/L","U","0.865","LOD","","TRG","","","9.16","LOQ","YES","-99","","0.109","0.001","5.73",
""
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C3-PFBS","13C3-PFBS","145","%R","","-99","NA","","IS","145","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C2-PFHxA","13C2-PFHxA","93.5","%R","","-99","NA","","IS","93.5","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C4-PFHpA","13C4-PFHpA","85.7","%R","","-99","NA","","IS","85.7","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","18O2-PFHxS","18O2-PFHxS","108","%R","","-99","NA","","IS","108","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C2-PFOA","13C2-PFOA","91.9","%R","","-99","NA","","IS","91.9","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C8-PFOS","13C8-PFOS","109","%R","","-99","NA","","IS","109","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C5-PFNA","13C5-PFNA","89.2","%R","","-99","NA","","IS","89.2","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C2-PFDA","13C2-PFDA","96.1","%R","","-99","NA","","IS","96.1","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","d3-MeFOSAA","d3-MeFOSAA","82.0","%R","","-99","NA","","IS","82.0","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C2-PFUnA","13C2-PFUnA","81.4","%R","","-99","NA","","IS","81.4","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","d5-EtFOSAA","d5-EtFOSAA","83.5","%R","","-99","NA","","IS","83.5","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C2-PFDoA","13C2-PFDoA","76.6","%R","","-99","NA","","IS","76.6","","-99","NA","YES","100","","0.109","0.001","-99",
"MH-121.5T-20170918","Modified EPA Method 537","Initial","1701279-07","Vista","13C2-PFTeDA","13C2-PFTeDA","97.0","%R","","-99","NA","","IS","97.0","","-99","NA","YES","100","","0.109","0.001","-99",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","375-73-5","PFBS","2.97","ng/L","J","1.94","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","307-24-4","PFHxA","104","ng/L","","2.36","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","375-85-9","PFHpA","68.0","ng/L","","0.640","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","355-46-4","PFHxS","3.17","ng/L","J","1.03","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","335-67-1","PFOA","40.0","ng/L","","0.705","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","1763-23-1","PFOS","9.80","ng/L","","0.874","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","375-95-1","PFNA","10.7","ng/L","","0.877","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","335-76-2","PFDA","5.43","ng/L","U","1.61","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","2355-31-9","MeFOSAA","5.43","ng/L","U","1.79","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","2058-94-8","PFUnA","1.76","ng/L","J","1.14","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","2991-50-6","EtFOSAA","5.43","ng/L","U","1.48","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",
""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","307-55-

1","PFDoA","5.43","ng/L","U","0.858","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","72629-94-
8","PFTeDA","5.43","ng/L","U","0.535","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","376-06-
7","PFTeDA","5.43","ng/L","U","0.818","LOD","","TRG","","","8.66","LOQ","YES","-99","","0.115","0.001","5.43",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C3-PFBS","13C3-
PFBS","138","%R","","-99","NA","","IS","138","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C2-PFHxA","13C2-
PFHxA","94.5","%R","","-99","NA","","IS","94.5","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C4-PFHpA","13C4-
PFHpA","86.7","%R","","-99","NA","","IS","86.7","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","18O2-PFHxS","18O2-
PFHxS","105","%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C2-PFOA","13C2-
PFOA","98.6","%R","","-99","NA","","IS","98.6","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C8-PFOS","13C8-
PFOS","104","%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C5-PFNA","13C5-
PFNA","80.9","%R","","-99","NA","","IS","80.9","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C2-PFDA","13C2-
PFDA","95.4","%R","","-99","NA","","IS","95.4","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","d3-MeFOSAA","d3-
MeFOSAA","71.3","%R","","-99","NA","","IS","71.3","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C2-PFUnA","13C2-
PFUnA","73.5","%R","","-99","NA","","IS","73.5","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","d5-EtFOSAA","d5-
EtFOSAA","75.2","%R","","-99","NA","","IS","75.2","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C2-PFDoA","13C2-
PFDoA","88.8","%R","","-99","NA","","IS","88.8","","-99","NA","YES","100","","0.115","0.001","-99",""
"WEST DITCH IN-20170918","Modified EPA Method 537","Initial","1701279-08","Vista","13C2-PFTeDA","13C2-
PFTeDA","88.6","%R","","-99","NA","","IS","88.6","","-99","NA","YES","100","","0.115","0.001","-99",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","375-73-
5","PFBS","5.48","ng/L","U","1.96","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","307-24-
4","PFHxA","94.1","ng/L","","2.39","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","375-85-
9","PFHpA","65.0","ng/L","","0.647","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","355-46-
4","PFHxS","5.60","ng/L","J","1.04","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","335-67-
1","PFOA","40.1","ng/L","","0.713","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","1763-23-
1","PFOS","10.7","ng/L","","0.883","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","375-95-
1","PFNA","8.62","ng/L","J","0.887","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","335-76-
2","PFDA","1.71","ng/L","J","1.63","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","2355-31-
9","MeFOSAA","5.48","ng/L","U","1.81","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","2058-94-
8","PFUnA","2.25","ng/L","J","1.15","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""

"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","2991-50-6","EtFOSAA","5.48","ng/L","U","1.50","LOD","","TRG","","","8.76","LOQ","YES",-99","","0.114","0.001","5.48",
""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","307-55-1","PFDoA","5.48","ng/L","U","0.867","LOD","","TRG","","","8.76","LOQ","YES",-99","","0.114","0.001","5.48",
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","72629-94-8","PFTTrDA","5.48","ng/L","U","0.541","LOD","","TRG","","","8.76","LOQ","YES",-99","","0.114","0.001","5.48",
"
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","376-06-7","PFTeDA","5.48","ng/L","U","0.827","LOD","","TRG","","","8.76","LOQ","YES",-99","","0.114","0.001","5.48",
""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C3-PFBS","13C3-PFBS","154","%R","H",-99,"NA","","IS","154","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C2-PFHxA","13C2-PFHxA","108","%R","","-99","NA","","IS","108","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C4-PFHpA","13C4-PFHpA","94.9","%R","","-99","NA","","IS","94.9","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","18O2-PFHxS","18O2-PFHxS","105","%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C2-PFOA","13C2-PFOA","99.5","%R","","-99","NA","","IS","99.5","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C8-PFOS","13C8-PFOS","99.1","%R","","-99","NA","","IS","99.1","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C5-PFNA","13C5-PFNA","82.4","%R","","-99","NA","","IS","82.4","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C2-PFDA","13C2-PFDA","89.3","%R","","-99","NA","","IS","89.3","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","d3-MeFOSAA","d3-MeFOSAA","92.0","%R","","-99","NA","","IS","92.0","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C2-PFUnA","13C2-PFUnA","89.9","%R","","-99","NA","","IS","89.9","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","d5-EtFOSAA","d5-EtFOSAA","96.1","%R","","-99","NA","","IS","96.1","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C2-PFDoA","13C2-PFDoA","112","%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.114","0.001",-99,""
"DUP01-20170918","Modified EPA Method 537","Initial","1701279-09","Vista","13C2-PFTeDA","13C2-PFTeDA","115","%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.114","0.001",-99,""
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","375-73-5","PFBS","2.09","ng/L","J","2.01","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","307-24-4","PFHxA","100","ng/L","","2.45","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","375-85-9","PFHpA","70.1","ng/L","","0.665","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","355-46-4","PFHxS","5.05","ng/L","J","1.07","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","335-67-1","PFOA","37.7","ng/L","","0.732","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","1763-23-1","PFOS","3.16","ng/L","J","0.908","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","375-95-1","PFNA","7.81","ng/L","J","0.911","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","335-76-2","PFDA","5.63","ng/L","U","1.68","LOD","","TRG","","","9.00","LOQ","YES",-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","2355-31-

9","MeFOSAA","5.63","ng/L","U","1.86","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
,""
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","2058-94-
8","PFUnA","5.63","ng/L","U","1.18","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","2991-50-
6","EtFOSAA","5.63","ng/L","U","1.54","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
,""
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","307-55-
1","PFDoA","5.63","ng/L","U","0.891","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","72629-94-
8","PFTTrDA","5.63","ng/L","U","0.556","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
,""
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","376-06-
7","PFTeDA","5.63","ng/L","U","0.849","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
,""
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C3-PFBS","13C3-
PFBS","172","%R","H","-99","NA","","IS","172","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C2-PFHxA","13C2-
PFHxA","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C4-PFHpA","13C4-
PFHpA","92.3","%R","","-99","NA","","IS","92.3","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","18O2-PFHxS","18O2-
PFHxS","110","%R","","-99","NA","","IS","110","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C2-PFOA","13C2-
PFOA","92.2","%R","","-99","NA","","IS","92.2","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C8-PFOS","13C8-
PFOS","93.7","%R","","-99","NA","","IS","93.7","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C5-PFNA","13C5-
PFNA","86.4","%R","","-99","NA","","IS","86.4","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C2-PFDA","13C2-
PFDA","83.2","%R","","-99","NA","","IS","83.2","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","d3-MeFOSAA","d3-
MeFOSAA","87.7","%R","","-99","NA","","IS","87.7","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C2-PFUnA","13C2-
PFUnA","90.0","%R","","-99","NA","","IS","90.0","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","d5-EtFOSAA","d5-
EtFOSAA","74.1","%R","","-99","NA","","IS","74.1","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C2-PFDoA","13C2-
PFDoA","77.8","%R","","-99","NA","","IS","77.8","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140-BOTTOM","Modified EPA Method 537","Initial","1701279-10","Vista","13C2-PFTeDA","13C2-
PFTeDA","98.5","%R","","-99","NA","","IS","98.5","","-99","NA","YES","100","","0.111","0.001","-99",
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","375-73-
5","PFBS","5.63","ng/L","U","2.01","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","307-24-
4","PFHxA","99.5","ng/L","","2.45","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","375-85-
9","PFHpA","73.1","ng/L","","0.665","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","355-46-
4","PFHxS","7.08","ng/L","J","1.07","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","335-67-
1","PFOA","42.1","ng/L","","0.732","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","1763-23-
1","PFOS","6.90","ng/L","J","0.908","LOD","","TRG","","","9.00","LOQ","YES","-99","","0.111","0.001","5.63",
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","375-95-

1","PFNA","9.49","ng/L","",,"0.911","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","335-76-
2","PFDA","5.63","ng/L","U","1.68","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","2355-31-
9","MeFOSAA","5.63","ng/L","U","1.86","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63"
,""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","2058-94-
8","PFUnA","5.63","ng/L","U","1.18","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","2991-50-
6","EtFOSAA","5.63","ng/L","U","1.54","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63"
,""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","307-55-
1","PFDaA","5.63","ng/L","U","0.891","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","72629-94-
8","PFTDA","5.63","ng/L","U","0.556","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63"
,""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","376-06-
7","PFTeDA","5.63","ng/L","U","0.849","LOD","",,"TRG","",,"",,"9.00","LOQ","YES","-99","",,"0.111","0.001","5.63"
,""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C3-PFBS","13C3-
PFBS","155","%R","H","-99","NA","",,"IS","155","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C2-PFHxA","13C2-
PFHxA","100","%R","",,"-99","NA","",,"IS","100","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C4-PFHpA","13C4-
PFHpA","66.7","%R","",,"-99","NA","",,"IS","66.7","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","18O2-PFHxS","18O2-
PFHxS","95.6","%R","",,"-99","NA","",,"IS","95.6","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C2-PFOA","13C2-
PFOA","87.6","%R","",,"-99","NA","",,"IS","87.6","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C8-PFOS","13C8-
PFOS","97.6","%R","",,"-99","NA","",,"IS","97.6","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C5-PFNA","13C5-
PFNA","84.1","%R","",,"-99","NA","",,"IS","84.1","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C2-PFDA","13C2-
PFDA","89.2","%R","",,"-99","NA","",,"IS","89.2","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","d3-MeFOSAA","d3-
MeFOSAA","70.1","%R","",,"-99","NA","",,"IS","70.1","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C2-PFUnA","13C2-
PFUnA","87.6","%R","",,"-99","NA","",,"IS","87.6","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","d5-EtFOSAA","d5-
EtFOSAA","71.3","%R","",,"-99","NA","",,"IS","71.3","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C2-PFDaA","13C2-
PFDaA","91.7","%R","",,"-99","NA","",,"IS","91.7","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"MH-140N-20170918","Modified EPA Method 537","Initial","1701279-11","Vista","13C2-PFTeDA","13C2-
PFTeDA","90.1","%R","",,"-99","NA","",,"IS","90.1","",,"-99","NA","YES","100","",,"0.111","0.001","-99",""
"INTERCEPTOR SUMP-20170918","Modified EPA Method 537","Initial","1701279-12","Vista","375-73-
5","PFBS","5.79","ng/L","U","2.07","LOD","",,"TRG","",,"",,"9.25","LOQ","YES","-99","",,"0.108","0.001","5.79",""
"INTERCEPTOR SUMP-20170918","Modified EPA Method 537","Initial","1701279-12","Vista","307-24-
4","PFHxA","27.0","ng/L","",,"2.52","LOD","",,"TRG","",,"",,"9.25","LOQ","YES","-99","",,"0.108","0.001","5.79",""
"INTERCEPTOR SUMP-20170918","Modified EPA Method 537","Initial","1701279-12","Vista","375-85-
9","PFHpA","19.0","ng/L","",,"0.683","LOD","",,"TRG","",,"",,"9.25","LOQ","YES","-99","",,"0.108","0.001","5.79",""
"INTERCEPTOR SUMP-20170918","Modified EPA Method 537","Initial","1701279-12","Vista","355-46-
4","PFHxS","6.49","ng/L","J","1.09","LOD","",,"TRG","",,"",,"9.25","LOQ","YES","-99","",,"0.108","0.001","5.79",""
"INTERCEPTOR SUMP-20170918","Modified EPA Method 537","Initial","1701279-12","Vista","335-67-

1", "PFOA", "25.0", "ng/L", "", "0.753", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "1763-23-1", "PFOS", "6.39", "ng/L", "J", "0.933", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "375-95-1", "PFNA", "3.05", "ng/L", "J", "0.936", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "335-76-2", "PFDA", "5.79", "ng/L", "U", "1.72", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "2355-31-9", "MeFOSAA", "5.79", "ng/L", "U", "1.91", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "2058-94-8", "PFUnA", "5.79", "ng/L", "U", "1.21", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "2991-50-6", "EtFOSAA", "5.79", "ng/L", "U", "1.58", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "307-55-1", "PFDoA", "5.79", "ng/L", "U", "0.916", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "72629-94-8", "PFTTrDA", "5.79", "ng/L", "U", "0.571", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "376-06-7", "PFTeDA", "5.79", "ng/L", "U", "0.873", "LOD", "", "TRG", "", "", "9.25", "LOQ", "YES", "-99", "", "0.108", "0.001", "5.79", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C3-PFBS", "13C3-PFBS", "165", "%R", "H", "-99", "NA", "", "IS", "165", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C2-PFHxA", "13C2-PFHxA", "106", "%R", "", "-99", "NA", "", "IS", "106", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C4-PFHpA", "13C4-PFHpA", "74.9", "%R", "", "-99", "NA", "", "IS", "74.9", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "18O2-PFHxS", "18O2-PFHxS", "102", "%R", "", "-99", "NA", "", "IS", "102", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C2-PFOA", "13C2-PFOA", "94.5", "%R", "", "-99", "NA", "", "IS", "94.5", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C8-PFOS", "13C8-PFOS", "107", "%R", "", "-99", "NA", "", "IS", "107", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C5-PFNA", "13C5-PFNA", "91.8", "%R", "", "-99", "NA", "", "IS", "91.8", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C2-PFDA", "13C2-PFDA", "93.7", "%R", "", "-99", "NA", "", "IS", "93.7", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "d3-MeFOSAA", "d3-MeFOSAA", "76.3", "%R", "", "-99", "NA", "", "IS", "76.3", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "13C2-PFUnA", "13C2-PFUnA", "96.3", "%R", "", "-99", "NA", "", "IS", "96.3", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""
"INTERCEPTOR SUMP-20170918", "Modified EPA Method 537", "Initial", "1701279-12", "Vista", "d5-EtFOSAA", "d5-EtFOSAA", "88.2", "%R", "", "-99", "NA", "", "IS", "88.2", "", "-99", "NA", "YES", "100", "", "0.108", "0.001", "-99", ""

"INTERCEPTOR SUMP-20170918","Modified EPA Method 537","Initial","1701279-12","Vista","13C2-PFDoA","13C2-PFDoA","95.2","%R","",-99,"NA","","IS","95.2","",-99,"NA","YES","100","","0.108","0.001","-99",""
"INTERCEPTOR SUMP-20170918","Modified EPA Method 537","Initial","1701279-12","Vista","13C2-PFTeDA","13C2-PFTeDA","90.3","%R","",-99,"NA","","IS","90.3","",-99,"NA","YES","100","","0.108","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","375-73-5","PFBS","2.79","ng/L","J","1.94","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","307-24-4","PFHxA","24.0","ng/L","","2.36","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","375-85-9","PFHpA","16.1","ng/L","","0.639","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","355-46-4","PFHxS","5.46","ng/L","J","1.02","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","335-67-1","PFOA","23.0","ng/L","","0.704","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","1763-23-1","PFOS","5.06","ng/L","J","0.873","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","375-95-1","PFNA","1.84","ng/L","J","0.876","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","335-76-2","PFDA","5.39","ng/L","U","1.61","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","2355-31-9","MeFOSAA","5.39","ng/L","U","1.78","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","2058-94-8","PFUnA","5.39","ng/L","U","1.14","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","2991-50-6","EtFOSAA","5.39","ng/L","U","1.48","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","307-55-1","PFDoA","5.39","ng/L","U","0.857","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","72629-94-8","PFTrDA","5.39","ng/L","U","0.534","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","376-06-7","PFTeDA","5.39","ng/L","U","0.817","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C3-PFBS","13C3-PFBS","136","%R","",-99,"NA","","IS","136","",-99,"NA","YES","100","","0.116","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C2-PFHxA","13C2-PFHxA","99.0","%R","",-99,"NA","","IS","99.0","",-99,"NA","YES","100","","0.116","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C4-PFHpA","13C4-PFHpA","84.4","%R","",-99,"NA","","IS","84.4","",-99,"NA","YES","100","","0.116","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","18O2-PFHxS","18O2-PFHxS","91.6","%R","",-99,"NA","","IS","91.6","",-99,"NA","YES","100","","0.116","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C2-PFOA","13C2-PFOA","88.5","%R","",-99,"NA","","IS","88.5","",-99,"NA","YES","100","","0.116","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C8-PFOS","13C8-PFOS","104","%R","",-99,"NA","","IS","104","",-99,"NA","YES","100","","0.116","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C5-PFNA","13C5-PFNA","84.6","%R","",-99,"NA","","IS","84.6","",-99,"NA","YES","100","","0.116","0.001","-99",""
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C2-PFDA","13C2-PFDA","87.4","%R","",-99,"NA","","IS","87.4","",-99,"NA","YES","100","","0.116","0.001","-99",""

"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","d3-MeFOSAA","d3-MeFOSAA","87.5","%R",",",",-99","NA",",",",IS","87.5",",",",-99","NA","YES","100",",",",0.116","0.001",",-99",",",",
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C2-PFUnA","13C2-PFUnA","77.7","%R",",",",-99","NA",",",",IS","77.7",",",",-99","NA","YES","100",",",",0.116","0.001",",-99",",",",
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","d5-EtFOSAA","d5-EtFOSAA","88.2","%R",",",",-99","NA",",",",IS","88.2",",",",-99","NA","YES","100",",",",0.116","0.001",",-99",",",",
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C2-PFDoA","13C2-PFDoA","88.3","%R",",",",-99","NA",",",",IS","88.3",",",",-99","NA","YES","100",",",",0.116","0.001",",-99",",",",
"DUP03-20170918","Modified EPA Method 537","Initial","1701279-13","Vista","13C2-PFTeDA","13C2-PFTeDA","103","%R",",",",-99","NA",",",",IS","103",",",",-99","NA","YES","100",",",",0.116","0.001",",-99",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","375-73-5","PFBS","2.56","ng/L","J","2.06","LOD",",",",TRG",",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","307-24-4","PFHxA","96.4","ng/L",",",2.51","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","375-85-9","PFHpA","60.7","ng/L",",",0.679","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","355-46-4","PFHxS","4.34","ng/L","J","1.09","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","335-67-1","PFOA","39.4","ng/L",",",0.748","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","1763-23-1","PFOS","2.16","ng/L","J","0.927","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","375-95-1","PFNA","6.54","ng/L","J","0.931","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","335-76-2","PFDA","5.73","ng/L","U","1.71","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","2355-31-9","MeFOSAA","5.73","ng/L","U","1.90","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","2058-94-8","PFUnA","5.73","ng/L","U","1.21","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","2991-50-6","EtFOSAA","5.73","ng/L","U","1.57","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","307-55-1","PFDoA","5.73","ng/L","U","0.910","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","72629-94-8","PFTeDA","5.73","ng/L","U","0.568","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","376-06-7","PFTeDA","5.73","ng/L","U","0.868","LOD",",",",TRG",",",",9.19","LOQ","YES",-99",",",0.109","0.001","5.73",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C3-PFBS","13C3-PFBS","139","%R",",",",-99","NA",",",",IS","139",",",",-99","NA","YES","100",",",",0.109","0.001",",-99",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C2-PFHxA","13C2-PFHxA","94.5","%R",",",",-99","NA",",",",IS","94.5",",",",-99","NA","YES","100",",",",0.109","0.001",",-99",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C4-PFHpA","13C4-PFHpA","86.5","%R",",",",-99","NA",",",",IS","86.5",",",",-99","NA","YES","100",",",",0.109","0.001",",-99",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","18O2-PFHxS","18O2-PFHxS","103","%R",",",",-99","NA",",",",IS","103",",",",-99","NA","YES","100",",",",0.109","0.001",",-99",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C2-PFOA","13C2-PFOA","81.1","%R",",",",-99","NA",",",",IS","81.1",",",",-99","NA","YES","100",",",",0.109","0.001",",-99",",",",
"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C8-PFOS","13C8-PFOS","112","%R",",",",-99","NA",",",",IS","112",",",",-99","NA","YES","100",",",",0.109","0.001",",-99",",",",

"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C5-PFNA","13C5-PFNA","76.3","%R","",-99,"NA","","IS","76.3","",-99,"NA","YES","100","","0.109","0.001","-99",""

"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C2-PFDA","13C2-PFDA","80.7","%R","",-99,"NA","","IS","80.7","",-99,"NA","YES","100","","0.109","0.001","-99",""

"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","d3-MeFOSAA","d3-MeFOSAA","93.0","%R","",-99,"NA","","IS","93.0","",-99,"NA","YES","100","","0.109","0.001","-99",""

"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C2-PFUnA","13C2-PFUnA","112","%R","",-99,"NA","","IS","112","",-99,"NA","YES","100","","0.109","0.001","-99",""

"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","d5-EtFOSAA","d5-EtFOSAA","93.0","%R","",-99,"NA","","IS","93.0","",-99,"NA","YES","100","","0.109","0.001","-99",""

"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C2-PFDoA","13C2-PFDoA","97.9","%R","",-99,"NA","","IS","97.9","",-99,"NA","YES","100","","0.109","0.001","-99",""

"ROOF DRAIN-20170918","Modified EPA Method 537","Initial","1701279-14","Vista","13C2-PFTeDA","13C2-PFTeDA","111","%R","",-99,"NA","","IS","111","",-99,"NA","YES","100","","0.109","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","375-73-5","PFBS","5.39","ng/L","U","1.93","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","307-24-4","PFHxA","128","ng/L","","2.35","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","375-85-9","PFHpA","94.1","ng/L","","0.637","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","355-46-4","PFHxS","4.19","ng/L","J","1.02","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","335-67-1","PFOA","47.4","ng/L","","0.702","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","1763-23-1","PFOS","5.74","ng/L","J","0.870","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","375-95-1","PFNA","12.2","ng/L","","0.873","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","335-76-2","PFDA","5.39","ng/L","U","1.61","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","2355-31-9","MeFOSAA","5.39","ng/L","U","1.78","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","2058-94-8","PFUnA","5.39","ng/L","U","1.13","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","2991-50-6","EtFOSAA","5.39","ng/L","U","1.48","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","307-55-1","PFDoA","5.39","ng/L","U","0.854","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","72629-94-8","PFTeDA","5.39","ng/L","U","0.532","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","376-06-7","PFTeDA","5.39","ng/L","U","0.814","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C3-PFBS","13C3-PFBS","159","%R","H","-99,"NA","","IS","159","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C2-PFHxA","13C2-PFHxA","100","%R","",-99,"NA","","IS","100","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C4-PFHpA","13C4-PFHpA","73.1","%R","",-99,"NA","","IS","73.1","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","18O2-PFHxS","18O2-PFHxS","110","%R","",-99,"NA","","IS","110","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C2-PFOA","13C2-PFOA","92.0","%R","",-99,"NA","","IS","92.0","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C8-PFOS","13C8-PFOS","108","%R","",-99,"NA","","IS","108","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C5-PFNA","13C5-PFNA","92.1","%R","",-99,"NA","","IS","92.1","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C2-PFDA","13C2-PFDA","91.4","%R","",-99,"NA","","IS","91.4","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","d3-MeFOSAA","d3-MeFOSAA","72.0","%R","",-99,"NA","","IS","72.0","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C2-PFUnA","13C2-PFUnA","89.3","%R","",-99,"NA","","IS","89.3","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","d5-EtFOSAA","d5-EtFOSAA","79.0","%R","",-99,"NA","","IS","79.0","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C2-PFDoA","13C2-PFDoA","93.3","%R","",-99,"NA","","IS","93.3","",-99,"NA","YES","100","","0.116","0.001","-99",""

"SPRING-20170918","Modified EPA Method 537","Initial","1701279-15","Vista","13C2-PFTeDA","13C2-PFTeDA","93.9","%R","",-99,"NA","","IS","93.9","",-99,"NA","YES","100","","0.116","0.001","-99",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","375-73-5","PFBS","5.39","ng/L","U","1.94","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","307-24-4","PFHxA","5.39","ng/L","U","2.36","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","375-85-9","PFHpA","5.39","ng/L","U","0.639","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","355-46-4","PFHxS","5.39","ng/L","U","1.02","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","335-67-1","PFOA","5.39","ng/L","U","0.704","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","1763-23-1","PFOS","5.39","ng/L","U","0.873","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","375-95-1","PFNA","5.39","ng/L","U","0.876","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","335-76-2","PFDA","5.39","ng/L","U","1.61","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","2355-31-9","MeFOSAA","5.39","ng/L","U","1.78","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","2058-94-8","PFUnA","5.39","ng/L","U","1.14","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","2991-50-6","EtFOSAA","5.39","ng/L","U","1.48","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","307-55-1","PFDoA","5.39","ng/L","U","0.857","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","72629-94-8","PFTeDA","5.39","ng/L","U","0.534","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","376-06-7","PFTeDA","5.39","ng/L","U","0.817","LOD","","TRG","","","8.65","LOQ","YES","-99","","0.116","0.001","5.39",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C3-PFBS","13C3-PFBS","122","%R","",-99,"NA","","IS","122","",-99,"NA","YES","100","","0.116","0.001","-99",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C2-PFHxA","13C2-PFHxA","98.3","%R","",-99,"NA","","IS","98.3","",-99,"NA","YES","100","","0.116","0.001","-99",""

"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C4-PFHpA","13C4-PFHpA","78.5","%R","",-99,"NA","","IS","78.5","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","18O2-PFHxS","18O2-PFHxS","102","%R","",-99,"NA","","IS","102","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C2-PFOA","13C2-PFOA","85.7","%R","",-99,"NA","","IS","85.7","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C8-PFOS","13C8-PFOS","105","%R","",-99,"NA","","IS","105","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C5-PFNA","13C5-PFNA","90.4","%R","",-99,"NA","","IS","90.4","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C2-PFDA","13C2-PFDA","69.0","%R","",-99,"NA","","IS","69.0","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","d3-MeFOSAA","d3-MeFOSAA","66.9","%R","",-99,"NA","","IS","66.9","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C2-PFUnA","13C2-PFUnA","62.1","%R","",-99,"NA","","IS","62.1","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","d5-EtFOSAA","d5-EtFOSAA","61.9","%R","",-99,"NA","","IS","61.9","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C2-PFDoA","13C2-PFDoA","68.4","%R","",-99,"NA","","IS","68.4","",-99,"NA","YES","100","","0.116","0.001","-99",""
"FRB01-20170918","Modified EPA Method 537","Initial","1701279-16","Vista","13C2-PFTeDA","13C2-PFTeDA","62.0","%R","",-99,"NA","","IS","62.0","",-99,"NA","YES","100","","0.116","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","375-73-5","PFBS","2.50","ng/L","U","0.895","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","307-24-4","PFHxA","2.50","ng/L","U","1.09","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","375-85-9","PFHpA","2.50","ng/L","U","0.296","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","355-46-4","PFHxS","2.50","ng/L","U","0.474","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","335-67-1","PFOA","2.50","ng/L","U","0.326","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","1763-23-1","PFOS","2.50","ng/L","U","0.404","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","375-95-1","PFNA","2.50","ng/L","U","0.405","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","335-76-2","PFDA","2.50","ng/L","U","0.745","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","2355-31-9","MeFOSAA","2.50","ng/L","U","0.825","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","2058-94-8","PFUnA","2.50","ng/L","U","0.525","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","2991-50-6","EtFOSAA","2.50","ng/L","U","0.685","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","307-55-1","PFDoA","2.50","ng/L","U","0.396","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","72629-94-8","PFTeDA","2.50","ng/L","U","0.247","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","376-06-7","PFTeDA","2.50","ng/L","U","0.378","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C3-PFBS","13C3-PFBS","155","%R","H","-99","NA","","IS","155","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C2-PFHxA","13C2-PFHxA","90.7","%R","","-99","NA","","IS","90.7","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C4-PFHpA","13C4-PFHpA","97.5","%R","","-99","NA","","IS","97.5","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","18O2-PFHxS","18O2-PFHxS","92.5","%R","","-99","NA","","IS","92.5","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C2-PFOA","13C2-PFOA","95.4","%R","","-99","NA","","IS","95.4","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C8-PFOS","13C8-PFOS","96.0","%R","","-99","NA","","IS","96.0","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C5-PFNA","13C5-PFNA","83.0","%R","","-99","NA","","IS","83.0","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C2-PFDA","13C2-PFDA","81.5","%R","","-99","NA","","IS","81.5","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","d3-MeFOSAA","d3-MeFOSAA","69.8","%R","","-99","NA","","IS","69.8","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C2-PFUnA","13C2-PFUnA","75.1","%R","","-99","NA","","IS","75.1","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","d5-EtFOSAA","d5-EtFOSAA","66.9","%R","","-99","NA","","IS","66.9","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C2-PFDoA","13C2-PFDoA","71.0","%R","","-99","NA","","IS","71.0","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BLK1","Modified EPA Method 537","Initial","B7I0105-BLK1","Vista","13C2-PFTeDA","13C2-PFTeDA","79.2","%R","","-99","NA","","IS","79.2","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","375-73-5","PFBS","34.2","ng/L","","0.895","LOD","","TRG","85.5","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","307-24-4","PFHxA","39.0","ng/L","","1.09","LOD","","TRG","97.6","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","375-85-9","PFHpA","36.0","ng/L","","0.296","LOD","","TRG","90.0","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","355-46-4","PFHxS","37.7","ng/L","","0.474","LOD","","TRG","94.3","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","335-67-1","PFOA","35.7","ng/L","","0.326","LOD","","TRG","89.4","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","1763-23-1","PFOS","39.6","ng/L","","0.404","LOD","","TRG","99.1","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","375-95-1","PFNA","38.3","ng/L","","0.405","LOD","","TRG","95.8","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","335-76-2","PFDA","35.7","ng/L","","0.745","LOD","","TRG","89.3","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","2355-31-9","MeFOSAA","30.8","ng/L","","0.825","LOD","","TRG","77.1","","4.00","LOQ","YES","40.0","","0.250","0.001",
"2.50",
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","2058-94-

8","PFUnA","35.3","ng/L","","0.525","LOD","","TRG","88.2","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","2991-50-6","EtFOSAA","35.8","ng/L","","0.685","LOD","","TRG","89.6","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","307-55-1","PFDoA","40.1","ng/L","","0.396","LOD","","TRG","100","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","72629-94-8","PFTrDA","33.5","ng/L","","0.247","LOD","","TRG","83.8","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","376-06-7","PFTeDA","36.9","ng/L","","0.378","LOD","","TRG","92.3","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C3-PFBS","13C3-PFBS","189","%R","H","-99","NA","","IS","189","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C2-PFHxA","13C2-PFHxA","114","%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C4-PFHpA","13C4-PFHpA","109","%R","","-99","NA","","IS","109","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","18O2-PFHxS","18O2-PFHxS","109","%R","","-99","NA","","IS","109","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C2-PFOA","13C2-PFOA","96.8","%R","","-99","NA","","IS","96.8","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C8-PFOS","13C8-PFOS","95.1","%R","","-99","NA","","IS","95.1","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C5-PFNA","13C5-PFNA","97.0","%R","","-99","NA","","IS","97.0","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C2-PFDA","13C2-PFDA","89.0","%R","","-99","NA","","IS","89.0","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","d3-MeFOSAA","d3-MeFOSAA","82.3","%R","","-99","NA","","IS","82.3","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C2-PFUnA","13C2-PFUnA","90.0","%R","","-99","NA","","IS","90.0","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","d5-EtFOSAA","d5-EtFOSAA","78.8","%R","","-99","NA","","IS","78.8","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C2-PFDoA","13C2-PFDoA","82.4","%R","","-99","NA","","IS","82.4","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-BS1","Modified EPA Method 537","Initial","B7I0105-BS1","Vista","13C2-PFTeDA","13C2-PFTeDA","93.0","%R","","-99","NA","","IS","93.0","","-99","NA","YES","100","","0.250","0.001","-99",
,"
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","375-73-5","PFBS","98.7","ng/L","","1.92","LOD","","TRG","98.1","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",
,"
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","307-24-4","PFHxA","149","ng/L","","2.34","LOD","","TRG","88.1","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",
,"
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","375-85-9","PFHpA","105","ng/L","","0.635","LOD","","TRG","90.9","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",
,"
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","355-46-4","PFHxS","175","ng/L","","1.02","LOD","","TRG","102","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",
,"
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","335-67-1","PFOA","94.0","ng/L","","0.700","LOD","","TRG","95.2","","8.60","LOQ","YES","86.0","GR-OF-

20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","1763-23-1","PFOS","350","ng/L","H","0.867","LOD","","TRG","192","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","375-95-1","PFNA","84.3","ng/L","","0.870","LOD","","TRG","97.8","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","335-76-2","PFDA","80.0","ng/L","","1.60","LOD","","TRG","93.0","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","2355-31-9","MeFOSAA","79.7","ng/L","","1.77","LOD","","TRG","92.6","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","2058-94-8","PFUnA","91.1","ng/L","","1.13","LOD","","TRG","106","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","2991-50-6","EtFOSAA","74.2","ng/L","","1.47","LOD","","TRG","86.3","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","307-55-1","PFDoA","67.7","ng/L","","0.851","LOD","","TRG","78.7","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","72629-94-8","PFTTrDA","75.5","ng/L","","0.531","LOD","","TRG","87.8","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","376-06-7","PFTeDA","76.1","ng/L","","0.811","LOD","","TRG","88.4","","8.60","LOQ","YES","86.0","GR-OF-20170918","0.116","0.001","5.39",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C3-PFBS","13C3-PFBS","165","%R","H","-99","NA","","IS","165","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C2-PFHxA","13C2-PFHxA","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C4-PFHpA","13C4-PFHpA","96.2","%R","","-99","NA","","IS","96.2","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","18O2-PFHxS","18O2-PFHxS","97.6","%R","","-99","NA","","IS","97.6","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C2-PFOA","13C2-PFOA","92.1","%R","","-99","NA","","IS","92.1","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C8-PFOS","13C8-PFOS","91.5","%R","","-99","NA","","IS","91.5","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C5-PFNA","13C5-PFNA","92.6","%R","","-99","NA","","IS","92.6","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C2-PFDA","13C2-PFDA","92.9","%R","","-99","NA","","IS","92.9","","-99","NA","YES","100","GR-OF-20170918","0.116","0.001","-99",""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","d3-MeFOSAA","d3-MeFOSAA","85.3","%R","","-99","NA","","IS","85.3","","-99","NA","YES","100","GR-OF-

20170918","0.116","0.001","-99", ""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C2-PFUnA","13C2-PFUnA","74.8","%R", "", "-99", "NA", "", "IS", "74.8", "", "-99", "NA", "YES", "100", "GR-OF-20170918","0.116","0.001", "-99", ""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","d5-EtFOSAA","d5-EtFOSAA","87.8","%R", "", "-99", "NA", "", "IS", "87.8", "", "-99", "NA", "YES", "100", "GR-OF-20170918","0.116","0.001", "-99", ""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C2-PFDoA","13C2-PFDoA","87.4","%R", "", "-99", "NA", "", "IS", "87.4", "", "-99", "NA", "YES", "100", "GR-OF-20170918","0.116","0.001", "-99", ""
"B7I0105-MS1","Modified EPA Method 537","Initial","B7I0105-MS1","Vista","13C2-PFTeDA","13C2-PFTeDA","94.8","%R", "", "-99", "NA", "", "IS", "94.8", "", "-99", "NA", "YES", "100", "GR-OF-20170918","0.116","0.001", "-99", ""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","375-73-5","PFBS","104","ng/L", "", "1.92", "LOD", "", "TRG", "104", "5.84", "8.56", "LOQ", "YES", "85.6", "GR-OF-20170918","0.117","0.001", "5.34", ""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","307-24-4","PFHxA","150","ng/L", "", "2.33", "LOD", "", "TRG", "89.8", "1.91", "8.56", "LOQ", "YES", "85.6", "GR-OF-20170918","0.117","0.001", "5.34", ""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","375-85-9","PFHpA","110","ng/L", "", "0.632", "LOD", "", "TRG", "97.0", "6.49", "8.56", "LOQ", "YES", "85.6", "GR-OF-20170918","0.117","0.001", "5.34", ""
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20170918","0.117","0.001","5.34",""
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20170918","0.117","0.001","-99",""
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PFHxA","112","%R","","-99","NA","","IS","112","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","13C4-PFHpA","13C4-
PFHpA","91.1","%R","","-99","NA","","IS","91.1","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
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PFHxS","115","%R","","-99","NA","","IS","115","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","13C2-PFOA","13C2-
PFOA","99.5","%R","","-99","NA","","IS","99.5","","-99","NA","YES","100","GR-OF-
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"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","13C8-PFOS","13C8-
PFOS","92.9","%R","","-99","NA","","IS","92.9","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","13C5-PFNA","13C5-
PFNA","93.8","%R","","-99","NA","","IS","93.8","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","13C2-PFDA","13C2-
PFDA","85.5","%R","","-99","NA","","IS","85.5","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","d3-MeFOSAA","d3-
MeFOSAA","83.3","%R","","-99","NA","","IS","83.3","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","13C2-PFUnA","13C2-
PFUnA","86.0","%R","","-99","NA","","IS","86.0","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
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EtFOSAA","80.9","%R","","-99","NA","","IS","80.9","","-99","NA","YES","100","GR-OF-
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"B7I0105-MSD1","Modified EPA Method 537","Initial","B7I0105-MSD1","Vista","13C2-PFDoA","13C2-
PFDoA","91.6","%R","","-99","NA","","IS","91.6","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
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PFTeDA","96.6","%R","","-99","NA","","IS","96.6","","-99","NA","YES","100","GR-OF-
20170918","0.117","0.001","-99",""
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01","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/26/2017
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02","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/26/2017
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03","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/29/2017
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00:00","100","B7I0105","B7I0105","NA","S7I0059","1701279","09/20/2017 09:07","01/01/1900 00:00",""
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04","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/26/2017

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00:00","100","B7I0105","B7I0105","NA","S7I0059","1701279","09/20/2017 09:07","01/01/1900 00:00","
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05","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/28/2017
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"NAWC Trenton","NAWC Trenton","MH-118.5T-20170918","09/18/2017 10:20","AQ","1701279-
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00:00","100","B7I0105","B7I0105","NA","S7I0059","1701279","09/20/2017 09:07","01/01/1900 00:00","
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09","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/26/2017
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10","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/26/2017
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11","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/29/2017
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12","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/29/2017
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14","NM","","1.70","Modified EPA Method 537","METHOD","Initial","09/25/2017 08:00","09/26/2017
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SDG: 1701279

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20170918, and FRB01-20170918. The detected PFBS results for these samples were qualified as estimated with a low bias (J-) unless superseded by the estimated qualifier (J).

The MSD recovery for PFHxS was below the lower QC limit and the relative percent difference (RPD) between the MS and MSD exceeded the QC limit of 25%. The associated positive result for PFHxS in sample GR-OF-20170918 was qualified as estimated (J).

The MS/MSD recoveries for PFOS exceeded the upper QC limit. The associated positive result for PFOS in sample GR-OF-20170918 was qualified as estimated (J).

Detected results reported below the Limit of Quantitation (LOQ) but above the Detection Limit (DL) were qualified as estimated (J).

Notes

Sample MH-118.5T-20170918 was reanalyzed because it followed an extract with an analyte with a concentration greater than the highest point in the calibration curve. The results from the reanalysis have been reported.

All analyses were conducted within the hold times specified by the site specific Sampling and Analysis Plan (SAP) and the analytical method.

Non-detected results were reported to the Limit of Detection (LOD).

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Executive Summary

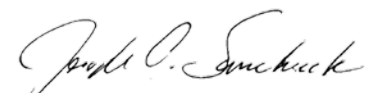
Laboratory Performance: The internal standard, 13C3-PFBS, was greater than the upper quality control limit in eight samples.

Other Factors Affecting Data Quality: MS/MSD recoveries and RPD exceeded QC limits. Positive results below the LOQ were qualified as estimated.

The data for these analyses were reviewed with reference to EPA Method 537 Revision 1.1 and the "National Functional Guidelines for Superfund Organic Methods Data Review" (January 2017). The text of this report has been formulated to address only those areas affecting data quality.



Tetra Tech, Inc.
Megan Ritchie
Chemist/Data Validator



Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:

- Appendix A – Qualified Analytical Results
- Appendix B – Results as Reported by the Laboratory
- Appendix C – Support Documentation

Appendix A

Qualified Analytical Results

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08005-WE08 SDG: 1701279 FRACTION: PFAS MEDIA: WATER	NSAMPLE	DUP01-20170918			DUP03-20170918			FRB01-20170918			GR-OF-20170918		
	LAB_ID	1701279-09			1701279-13			1701279-16			1701279-01		
	SAMP_DATE	9/18/2017			9/18/2017			9/18/2017			9/18/2017		
	QC_TYPE	FD			FD			FB			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	WEST DITCH IN-20170918			INTERCEPTOR SUMP-20170918								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.48	U		5.39	U		5.39	U		5.34	U		
N-METHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.48	U		5.39	U		5.39	U		5.34	U		
PENTADECANFLUOROOCANOIC ACID	40.1			23			5.39	U		12.1			
PERFLUOROBUTANESULFONIC ACID	5.48	U		2.79	J	P	5.39	U		14.3	J-	N	
PERFLUORODECANOIC ACID	1.71	J	P	5.39	U		5.39	U		5.34	U		
PERFLUORODODECANOIC ACID	5.48	U		5.39	U		5.39	U		5.34	U		
PERFLUOROHEPTANOIC ACID	65			16.1			5.39	U		27.1			
PERFLUOROHEXANESULFONIC ACID	5.6	J	P	5.46	J	P	5.39	U		87.3	J	D	
PERFLUOROHEXANOIC ACID	94.1			24			5.39	U		72.9			
PERFLUORONONANOIC ACID	8.62	J	P	1.84	J	P	5.39	U		5.34	U		
PERFLUOROOCANE SULFONIC ACID	10.7			5.06	J	P	5.39	U		184	J	D	
PERFLUOROTETRADECANOIC ACID	5.48	U		5.39	U		5.39	U		5.34	U		
PERFLUOROTRIDECANOIC ACID	5.48	U		5.39	U		5.39	U		5.34	U		
PERFLUOROUNDECANOIC ACID	2.25	J	P	5.39	U		5.39	U		5.34	U		

PROJ_NO: 08005-WE08 SDG: 1701279 FRACTION: PFAS MEDIA: WATER	NSAMPLE	INTERCEPTOR SUMP-20170918			MH-117N-20170918			MH-117T-20170918			MH-118.5N-20170918		
	LAB_ID	1701279-12			1701279-02			1701279-03			1701279-04		
	SAMP_DATE	9/18/2017			9/18/2017			9/18/2017			9/18/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.79	U		5.39	U		5.63	U		5.95	U		
N-METHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.79	U		5.39	U		5.63	U		5.95	U		
PENTADEC AFLUOROOCANOIC ACID	25			78.4			60.1			123			
PERFLUOROBUTANESULFONIC ACID	5.79	U		133			93.7	J-	N	164	J-	N	
PERFLUORODECANOIC ACID	5.79	U		1.83	J	P	2.15	J	P	5.7	J	P	
PERFLUORODODECANOIC ACID	5.79	U		5.39	U		5.63	U		5.95	U		
PERFLUOROHEPTANOIC ACID	19			193			136			223			
PERFLUOROHEXANESULFONIC ACID	6.49	J	P	768			550			1170			
PERFLUOROHEXANOIC ACID	27			590			444			770			
PERFLUORONONANOIC ACID	3.05	J	P	7.22	J	P	4.31	J	P	16.2			
PERFLUOROOCANE SULFONIC ACID	6.39	J	P	1740			1430			4240			
PERFLUOROTETRADECANOIC ACID	5.79	U		5.39	U		5.63	U		5.95	U		
PERFLUOROTRIDECANOIC ACID	5.79	U		5.39	U		5.63	U		5.95	U		
PERFLUOROUNDECANOIC ACID	5.79	U		5.39	U		5.63	U		5.95	U		

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.53	U		5.53	U		5.73	U		5.63	U	
N-METHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.53	U		5.53	U		5.73	U		5.63	U	
PENTAFLUOROOCANOIC ACID	13.2			26.3			9.1	J	P	37.7		
PERFLUOROBUTANESULFONIC ACID	5.53	U		4.28	J	NP	5.73	U		2.09	J	NP
PERFLUORODECANOIC ACID	5.53	U		5.53	U		5.73	U		5.63	U	
PERFLUORODODECANOIC ACID	5.53	U		5.53	U		5.73	U		5.63	U	
PERFLUOROHEPTANOIC ACID	60.8			156			19.2			70.1		
PERFLUOROHEXANESULFONIC ACID	14.3			21.5			2.9	J	P	5.05	J	P
PERFLUOROHEXANOIC ACID	125			341			31.4			100		
PERFLUORONONANOIC ACID	2.13	J	P	3.65	J	P	1.84	J	P	7.81	J	P
PERFLUOROOCANE SULFONIC ACID	13.2			13.6			5.71	J	P	3.16	J	P
PERFLUOROTETRADECANOIC ACID	5.53	U		5.53	U		5.73	U		5.63	U	
PERFLUOROTRIDECANOIC ACID	5.53	U		5.53	U		5.73	U		5.63	U	
PERFLUOROUNDECANOIC ACID	5.53	U		5.53	U		5.73	U		5.63	U	

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.63	U		5.73	U		5.39	U		5.43	U	
N-METHYL PERFLUOROOCANE SULFONAMIDOACETIC ACID	5.63	U		5.73	U		5.39	U		5.43	U	
PENTADEC AFLUOROOCANOIC ACID	42.1			39.4			47.4			40		
PERFLUOROBUTANESULFONIC ACID	5.63	U		2.56	J	P	5.39	U		2.97	J	P
PERFLUORODECANOIC ACID	5.63	U		5.73	U		5.39	U		5.43	U	
PERFLUORODODECANOIC ACID	5.63	U		5.73	U		5.39	U		5.43	U	
PERFLUOROHEPTANOIC ACID	73.1			60.7			94.1			68		
PERFLUOROHEXANESULFONIC ACID	7.08	J	P	4.34	J	P	4.19	J	P	3.17	J	P
PERFLUOROHEXANOIC ACID	99.5			96.4			128			104		
PERFLUORONONANOIC ACID	9.49			6.54	J	P	12.2			10.7		
PERFLUOROOCANE SULFONIC ACID	6.9	J	P	2.16	J	P	5.74	J	P	9.8		
PERFLUOROTETRADECANOIC ACID	5.63	U		5.73	U		5.39	U		5.43	U	
PERFLUOROTRIDECANOIC ACID	5.63	U		5.73	U		5.39	U		5.43	U	
PERFLUOROUNDECANOIC ACID	5.63	U		5.73	U		5.39	U		1.76	J	P

Appendix B

Results as Reported by the Laboratory

Sample ID: GR-OF-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-01	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 08:10	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	14.3	1.91	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFHxA	72.9	2.33	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFHpA	27.1	0.632	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFHxS	87.3	1.01	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOA	12.1	0.696	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFOS	184	0.862	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFNA	ND	0.866	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFDA	ND	1.59	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
MeFOSAA	ND	1.76	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFUnA	ND	1.12	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
EtFOSAA	ND	1.46	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFDoA	ND	0.846	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFTrDA	ND	0.528	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
PFTeDA	ND	0.807	5.34	8.55		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	171	50 - 150	H	B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFHxA	IS	104	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C4-PFHpA	IS	97.5	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
18O2-PFHxS	IS	95.1	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFOA	IS	106	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C8-PFOS	IS	96.7	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C5-PFNA	IS	99.4	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFDA	IS	88.6	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
d3-MeFOSAA	IS	82.4	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFUnA	IS	97.3	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
d5-EtFOSAA	IS	85.1	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFDoA	IS	78.6	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1
13C2-PFTeDA	IS	93.0	50 - 150		B7I0105	25-Sep-17	0.117 L	26-Sep-17 14:28	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-117N-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-02	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:05	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	133	1.92	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFHxA	590	2.34	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFHpA	193	0.635	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFHxS	768	1.02	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFOA	78.4	0.700	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFOS	1740	0.867	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFNA	7.22	0.871	5.39	8.60	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFDA	1.83	1.60	5.39	8.60	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
MeFOSAA	ND	1.77	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFUnA	ND	1.13	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
EtFOSAA	ND	1.47	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFDoA	ND	0.851	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFTrDA	ND	0.531	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
PFTeDA	ND	0.812	5.39	8.60		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	138	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFHxA	IS	97.8	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C4-PFHpA	IS	80.7	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
18O2-PFHxS	IS	114	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFOA	IS	92.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C8-PFOS	IS	96.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C5-PFNA	IS	78.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFDA	IS	80.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
d3-MeFOSAA	IS	83.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFUnA	IS	80.8	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
d5-EtFOSAA	IS	71.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFDoA	IS	63.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1
13C2-PFTeDA	IS	88.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 14:40	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-117T-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-03	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:15	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	93.7	2.02	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFHxA	444	2.46	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFHpA	136	0.667	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFHxS	550	1.07	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFOA	60.1	0.735	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFOS	1430	0.911	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFNA	4.31	0.915	5.63	9.03	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFDA	2.15	1.68	5.63	9.03	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
MeFOSAA	ND	1.86	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFUnA	ND	1.19	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
EtFOSAA	ND	1.55	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFDoA	ND	0.894	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFTrDA	ND	0.558	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
PFTeDA	ND	0.853	5.63	9.03		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	185	50 - 150	H	B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFHxA	IS	104	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C4-PFHpA	IS	78.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
18O2-PFHxS	IS	103	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFOA	IS	95.8	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C8-PFOS	IS	106	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C5-PFNA	IS	86.2	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFDA	IS	92.4	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
d3-MeFOSAA	IS	69.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFUnA	IS	89.4	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
d5-EtFOSAA	IS	71.8	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFDoA	IS	83.3	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1
13C2-PFTeDA	IS	84.0	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 05:20	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-118.5N-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-04	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:45	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	164	2.13	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFHxA	770	2.60	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFHpA	223	0.704	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFHxS	1170	1.13	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFOA	123	0.775	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFOS	4240	4.80	29.8	47.6	D	B7I0105	25-Sep-17	0.105 L	28-Sep-17 15:13	5
PFNA	16.2	0.964	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFDA	5.70	1.77	5.95	9.53	J	B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
MeFOSAA	ND	1.96	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFUnA	ND	1.25	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
EtFOSAA	ND	1.63	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFDoA	ND	0.943	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFTrDA	ND	0.588	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
PFTeDA	ND	0.899	5.95	9.53		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	171	50 - 150	H	B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFHxA	IS	110	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C4-PFHpA	IS	94.1	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
18O2-PFHxS	IS	98.5	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFOA	IS	93.2	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C8-PFOS	IS	110	50 - 150	D	B7I0105	25-Sep-17	0.105 L	28-Sep-17 15:13	5
13C5-PFNA	IS	72.8	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFDA	IS	110	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
d3-MeFOSAA	IS	90.7	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFUnA	IS	87.9	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
d5-EtFOSAA	IS	90.2	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFDoA	IS	89.5	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1
13C2-PFTeDA	IS	105	50 - 150		B7I0105	25-Sep-17	0.105 L	26-Sep-17 15:01	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-118.5T-20170918

Modified EPA Method 537

Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	1701279-05	Column:	BEH C18		
Project:	NAWC Trenton	Date Collected:	18-Sep-17 10:20		Date Received:	20-Sep-17 09:07				
SDG:	WE08									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.99	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFHxA	125	2.42	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFHpA	60.8	0.655	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFHxS	14.3	1.05	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFOA	13.2	0.722	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFOS	13.2	0.895	5.53	8.87		B7I0105	25-Sep-17	0.113 L	28-Sep-17 14:48	1
PFNA	2.13	0.898	5.53	8.87	J	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFDA	ND	1.65	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
MeFOSAA	ND	1.83	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFUnA	ND	1.16	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
EtFOSAA	ND	1.52	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFDoA	ND	0.878	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFTrDA	ND	0.548	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
PFTeDA	ND	0.837	5.53	8.87		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	173	50 - 150	H	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFHxA	IS	111	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C4-PFHpA	IS	112	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
18O2-PFHxS	IS	115	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFOA	IS	96.1	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C8-PFOS	IS	104	50 - 150		B7I0105	25-Sep-17	0.113 L	28-Sep-17 14:48	1
13C5-PFNA	IS	89.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFDA	IS	74.3	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
d3-MeFOSAA	IS	78.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFUnA	IS	77.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
d5-EtFOSAA	IS	75.7	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFDoA	IS	73.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1
13C2-PFTeDA	IS	89.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:12	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-121.5N-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-06	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 11:05	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	4.28	1.98	5.53	8.83	J	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFHxA	341	2.41	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFHpA	156	0.653	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFHxS	21.5	1.05	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFOA	26.3	0.719	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFOS	13.6	0.891	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFNA	3.65	0.895	5.53	8.83	J	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFDA	ND	1.65	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
MeFOSAA	ND	1.82	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFUnA	ND	1.16	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
EtFOSAA	ND	1.51	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFDoA	ND	0.875	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFTrDA	ND	0.546	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
PFTeDA	ND	0.834	5.53	8.83		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	173	50 - 150	H	B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFHxA	IS	101	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C4-PFHpA	IS	101	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
18O2-PFHxS	IS	111	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFOA	IS	101	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C8-PFOS	IS	112	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C5-PFNA	IS	96.7	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFDA	IS	88.4	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
d3-MeFOSAA	IS	98.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFUnA	IS	94.0	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
d5-EtFOSAA	IS	91.6	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFDoA	IS	96.9	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1
13C2-PFTeDA	IS	113	50 - 150		B7I0105	25-Sep-17	0.113 L	26-Sep-17 15:55	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-121.5T-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-07	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 11:10	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.05	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFHxA	31.4	2.50	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFHpA	19.2	0.677	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFHxS	2.90	1.08	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFOA	9.10	0.746	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFOS	5.71	0.924	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFNA	1.84	0.928	5.73	9.16	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFDA	ND	1.71	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
MeFOSAA	ND	1.89	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFUnA	ND	1.20	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
EtFOSAA	ND	1.57	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFDoA	ND	0.907	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFTrDA	ND	0.566	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
PFTeDA	ND	0.865	5.73	9.16		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	145	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFHxA	IS	93.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C4-PFHpA	IS	85.7	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
18O2-PFHxS	IS	108	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFOA	IS	91.9	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C8-PFOS	IS	109	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C5-PFNA	IS	89.2	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFDA	IS	96.1	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
d3-MeFOSAA	IS	82.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFUnA	IS	81.4	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
d5-EtFOSAA	IS	83.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFDoA	IS	76.6	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1
13C2-PFTeDA	IS	97.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 16:06	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: WEST DITCH IN-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-08	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 13:55	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.97	1.94	5.43	8.66	J	B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFHxA	104	2.36	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFHpA	68.0	0.640	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFHxS	3.17	1.03	5.43	8.66	J	B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFOA	40.0	0.705	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFOS	9.80	0.874	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFNA	10.7	0.877	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFDA	ND	1.61	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
MeFOSAA	ND	1.79	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFUnA	1.76	1.14	5.43	8.66	J	B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
EtFOSAA	ND	1.48	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFDoA	ND	0.858	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFTrDA	ND	0.535	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
PFTeDA	ND	0.818	5.43	8.66		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	138	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFHxA	IS	94.5	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C4-PFHpA	IS	86.7	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
18O2-PFHxS	IS	105	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFOA	IS	98.6	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C8-PFOS	IS	104	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C5-PFNA	IS	80.9	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFDA	IS	95.4	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
d3-MeFOSAA	IS	71.3	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFUnA	IS	73.5	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
d5-EtFOSAA	IS	75.2	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFDoA	IS	88.8	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1
13C2-PFTeDA	IS	88.6	50 - 150		B7I0105	25-Sep-17	0.115 L	26-Sep-17 16:17	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: DUP01-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-09	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:00	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.96	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFHxA	94.1	2.39	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFHpA	65.0	0.647	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFHxS	5.60	1.04	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOA	40.1	0.713	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOS	10.7	0.883	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFNA	8.62	0.887	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFDA	1.71	1.63	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
MeFOSAA	ND	1.81	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOA	2.25	1.15	5.48	8.76	J	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
EtFOSAA	ND	1.50	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOA	ND	0.867	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOA	ND	0.541	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
PFOA	ND	0.827	5.48	8.76		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	154	50 - 150	H	B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFHxA	IS	108	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C4-PFHpA	IS	94.9	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
18O2-PFHxS	IS	105	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFOA	IS	99.5	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C8-PFOS	IS	99.1	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C5-PFNA	IS	82.4	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFDA	IS	89.3	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
d3-MeFOSAA	IS	92.0	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFOA	IS	89.9	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
d5-EtFOSAA	IS	96.1	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFOA	IS	112	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1
13C2-PFOA	IS	115	50 - 150		B7I0105	25-Sep-17	0.114 L	26-Sep-17 16:28	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-140-BOTTOM

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-10	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 14:20	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.09	2.01	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFHxA	100	2.45	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFHpA	70.1	0.665	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFHxS	5.05	1.07	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFOA	37.7	0.732	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFOS	3.16	0.908	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFNA	7.81	0.911	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFDA	ND	1.68	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
MeFOSAA	ND	1.86	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFUnA	ND	1.18	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
EtFOSAA	ND	1.54	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFDoA	ND	0.891	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFTrDA	ND	0.556	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
PFTeDA	ND	0.849	5.63	9.00		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	172	50 - 150	H	B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFHxA	IS	100	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C4-PFHpA	IS	92.3	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
18O2-PFHxS	IS	110	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFOA	IS	92.2	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C8-PFOS	IS	93.7	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C5-PFNA	IS	86.4	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFDA	IS	83.2	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
d3-MeFOSAA	IS	87.7	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFUnA	IS	90.0	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
d5-EtFOSAA	IS	74.1	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFDoA	IS	77.8	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1
13C2-PFTeDA	IS	98.5	50 - 150		B7I0105	25-Sep-17	0.111 L	26-Sep-17 16:38	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: MH-140N-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-11	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 14:35	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.01	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFHxA	99.5	2.45	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFHpA	73.1	0.665	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFHxS	7.08	1.07	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFOA	42.1	0.732	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFOS	6.90	0.908	5.63	9.00	J	B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFNA	9.49	0.911	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFDA	ND	1.68	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
MeFOSAA	ND	1.86	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFUnA	ND	1.18	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
EtFOSAA	ND	1.54	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFDoA	ND	0.891	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFTrDA	ND	0.556	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
PFTeDA	ND	0.849	5.63	9.00		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	155	50 - 150	H	B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFHxA	IS	100	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C4-PFHpA	IS	66.7	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
18O2-PFHxS	IS	95.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFOA	IS	87.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C8-PFOS	IS	97.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C5-PFNA	IS	84.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFDA	IS	89.2	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
d3-MeFOSAA	IS	70.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFUnA	IS	87.6	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
d5-EtFOSAA	IS	71.3	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFDoA	IS	91.7	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1
13C2-PFTeDA	IS	90.1	50 - 150		B7I0105	25-Sep-17	0.111 L	29-Sep-17 06:03	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: INTERCEPTOR SUMP-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-12	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 09:05	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.07	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFHxA	27.0	2.52	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFHpA	19.0	0.683	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFHxS	6.49	1.09	5.79	9.25	J	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOA	25.0	0.753	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFOS	6.39	0.933	5.79	9.25	J	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFNA	3.05	0.936	5.79	9.25	J	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFDA	ND	1.72	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
MeFOSAA	ND	1.91	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFUnA	ND	1.21	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
EtFOSAA	ND	1.58	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFDoA	ND	0.916	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFTrDA	ND	0.571	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
PFTeDA	ND	0.873	5.79	9.25		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	165	50 - 150	H	B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFHxA	IS	106	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C4-PFHpA	IS	74.9	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
18O2-PFHxS	IS	102	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFOA	IS	94.5	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C8-PFOS	IS	107	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C5-PFNA	IS	91.8	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFDA	IS	93.7	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
d3-MeFOSAA	IS	76.3	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFUnA	IS	96.3	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
d5-EtFOSAA	IS	88.2	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFDoA	IS	95.2	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1
13C2-PFTeDA	IS	90.3	50 - 150		B7I0105	25-Sep-17	0.108 L	29-Sep-17 06:13	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: DUP03-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-13	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 12:00	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.79	1.94	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFHxA	24.0	2.36	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFHpA	16.1	0.639	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFHxS	5.46	1.02	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOA	23.0	0.704	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOS	5.06	0.873	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFNA	1.84	0.876	5.39	8.65	J	B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFDA	ND	1.61	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
MeFOSAA	ND	1.78	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOA	ND	1.14	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
EtFOSAA	ND	1.48	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOA	ND	0.857	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOA	ND	0.534	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
PFOA	ND	0.817	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	136	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFHxA	IS	99.0	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C4-PFHpA	IS	84.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
18O2-PFHxS	IS	91.6	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFOA	IS	88.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C8-PFOS	IS	104	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C5-PFNA	IS	84.6	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFDA	IS	87.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
d3-MeFOSAA	IS	87.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFOA	IS	77.7	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
d5-EtFOSAA	IS	88.2	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFOA	IS	88.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1
13C2-PFOA	IS	103	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:10	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: ROOF DRAIN-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-14	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 15:30	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.56	2.06	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFHxA	96.4	2.51	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFHpA	60.7	0.679	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFHxS	4.34	1.09	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	39.4	0.748	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOS	2.16	0.927	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFNA	6.54	0.931	5.73	9.19	J	B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFDA	ND	1.71	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
MeFOSAA	ND	1.90	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	1.21	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
EtFOSAA	ND	1.57	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	0.910	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	0.568	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
PFOA	ND	0.868	5.73	9.19		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	139	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFHxA	IS	94.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C4-PFHpA	IS	86.5	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
18O2-PFHxS	IS	103	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	81.1	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C8-PFOS	IS	112	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C5-PFNA	IS	76.3	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFDA	IS	80.7	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
d3-MeFOSAA	IS	93.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	112	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
d5-EtFOSAA	IS	93.0	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	97.9	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1
13C2-PFOA	IS	111	50 - 150		B7I0105	25-Sep-17	0.109 L	26-Sep-17 17:21	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: SPRING-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-15	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 15:45	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFHxA	128	2.35	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFHpA	94.1	0.637	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFHxS	4.19	1.02	5.39	8.62	J	B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFOA	47.4	0.702	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFOS	5.74	0.870	5.39	8.62	J	B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFNA	12.2	0.873	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFDA	ND	1.61	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
MeFOSAA	ND	1.78	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFUnA	ND	1.13	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
EtFOSAA	ND	1.48	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFDoA	ND	0.854	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFTrDA	ND	0.532	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
PFTeDA	ND	0.814	5.39	8.62		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	159	50 - 150	H	B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFHxA	IS	100	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C4-PFHpA	IS	73.1	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
18O2-PFHxS	IS	110	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFOA	IS	92.0	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C8-PFOS	IS	108	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C5-PFNA	IS	92.1	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFDA	IS	91.4	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
d3-MeFOSAA	IS	72.0	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFUnA	IS	89.3	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
d5-EtFOSAA	IS	79.0	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFDoA	IS	93.3	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1
13C2-PFTeDA	IS	93.9	50 - 150		B7I0105	25-Sep-17	0.116 L	29-Sep-17 06:24	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: FRB01-20170918

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701279-16	Column:	BEH C18
Project:	NAWC Trenton	Date Collected:	18-Sep-17 16:45	Date Received:	20-Sep-17 09:07		
SDG:	WE08						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.94	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFHxA	ND	2.36	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFHpA	ND	0.639	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFHxS	ND	1.02	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFOA	ND	0.704	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFOS	ND	0.873	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFNA	ND	0.876	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFDA	ND	1.61	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
MeFOSAA	ND	1.78	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFUnA	ND	1.14	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
EtFOSAA	ND	1.48	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFDoA	ND	0.857	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFTrDA	ND	0.534	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
PFTeDA	ND	0.817	5.39	8.65		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	122	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFHxA	IS	98.3	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C4-PFHpA	IS	78.5	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
18O2-PFHxS	IS	102	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFOA	IS	85.7	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C8-PFOS	IS	105	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C5-PFNA	IS	90.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFDA	IS	69.0	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
d3-MeFOSAA	IS	66.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFUnA	IS	62.1	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
d5-EtFOSAA	IS	61.9	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFDoA	IS	68.4	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1
13C2-PFTeDA	IS	62.0	50 - 150		B7I0105	25-Sep-17	0.116 L	26-Sep-17 17:42	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Appendix C

Support Documentation

Submit by Email*



FOR LABORATORY USE ONLY

Laboratory Project ID: 1701279 Temp 1.7 °C
Storage ID: WR-2 Storage Secured Yes [X] No []

CHAIN OF CUSTODY RECORD

Project I.D.: **NAWC Trenton** P.O. #: **1132341-WR3** Sampler: **Chuck Myer** (Name)

TAT: (Check One)
Standard 21 days
Rush (surcharge may apply)
 14 days 7 days Specify:

Invoice to: Name **Tetra Tech** Company **Foster Plaza VII** Address **661 Anderson Drive** City **Pittsburgh** State **PA** Zip **15220** Ph# **412-921-7090** Fax # **412-921-4040**

Relinquished by: (Printed Name and Signature) **Chuck Myer** Date: **9/19/2017** Time: **16:00** Received by: (Signature and Printed Name) **Mary Mang Marissa Sparks** Date: **9/20/17** Time: **0939**

Relinquished by: (Printed Name and Signature) Date: Time: Received by: (Signature and Printed Name) Date: Time:

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106
Method of Shipment: **FedEx**
Tracking No.:
Add Analysis(es) Requested
EPA1613 EPA8290 EPA8280 EPA1668 EPA1614 CARB429

ATTN: **Sample Custodian**

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	Add Analysis(es) Requested													MSMSD						
							2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDF	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE		PAH	WHO-29	PEAS H	EPA Method 537		
GR-OF-20170918	9/18/17	08:10	Trenton	6	PJ	AQ																		X		
MH-117N-20170918	9/18/17	09:05	Trenton	2	PJ	AQ																			X	
MH-117T-20170918	9/18/17	09:15	Trenton	2	PJ	AQ																			X	
MH-118.5N-20170918	9/18/17	09:45	Trenton	2	PJ	AQ																			X	
MH-118.5T-20170918	9/18/17	10:20	Trenton	2	PJ	AQ																			X	
MH-121.5N-20170918	9/18/17	11:05	Trenton	2	PJ	AQ																			X	
MH-121.5T-20170918	9/18/17	11:10	Trenton	2	PJ	AQ																			X	
WEST DITCH IN-20170918	9/18/17	13:55	Trenton	2	PJ	AQ																			X	
DUP01-20170918	9/18/17	09:00	Trenton	2	PJ	AQ																			X	DUP
MH-140-BOTTOM	9/18/17	14:20	Trenton	2	PJ	AQ																			X	

Special Instructions/Comments: **FedEx 7702 8831 5489**

SEND DOCUMENTATION AND RESULTS TO:

Name: **Mary Mang**
Company: **Tetra Tech**
Address: **234 Mall Blvd Suite 260**
City: **King of Prussia** State: **PA** Zip: **19406**
Phone: **610-382-1174** Fax: **610-491-9645**
Email: **mary.mang@tetrattech.com**

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O = Other **PJ**

*Bottle Preservative Type: T = Thiosulfate, O = Other

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B=Blood/Serum
O = Other **AQ**

SDG Number WE08

Vista Work Order No. 1701279

Case Narrative

Sample Condition on Receipt:

Sixteen aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

Modified EPA Method 537

The samples were extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The OPR recoveries were within the method acceptance criteria.

The extract of sample "MH-118.5T-20170918" was re-injected because it followed an extract with an analyte with a concentration greater than the highest point in the calibration curve. The results from the re-injection have been reported.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

As requested, an MS/MSD was performed on sample "GR-OF-20170918". The MS/MSD recoveries and/or RPDs were out of the criteria for PFHxS and PFOS. The concentrations of these analytes in the samples are very high relative to the concentrations of the added spike solution.

FORMER NAWC TRENTON
1701279

SAMPLE IDENTIFICATION

MH-118.5T-20170918

COMPOUND	PFOS
COMPOUND AREA	678
INTERNAL STANDARD AMOUNT (ng/ml)	100
DILUTION FACTOR	1
INTERNAL STANDARD AREA	11400
AVERAGE RRF	1
SAMPLE VOLUME (ml)	112.7
VOLUME EXTRACT (ml)	0.05
VOLUME INJECTED (μl)	5
ml to L	1000
CONCENTRATION =	13.19 ng/L

$678 \times 100\text{ng/ml} \times 5 \text{ uL} \times 1000\text{ml} \times 1 / (11100 \times 0.05 \times 112.7\text{ml} \times 1\text{L})$

FIELD DUPLICATE PRECISION
SDG 1701279

ANALYTE	ORIGINAL	DUPLICATE	RL	RPD	RPD > 30%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >RL
PFHXA	104	94.1	5.43	10	FALSE	TRUE	TRUE	TRUE
PFHPA	68	65	5.43	5	FALSE	TRUE	TRUE	FALSE
PFHXS	3.17	5.6	5.43	55	TRUE	FALSE	FALSE	FALSE
PFOA	40	40.1	5.43	0	FALSE	TRUE	TRUE	FALSE
PFOS	9.8	10.7	5.43	9	FALSE	FALSE	FALSE	FALSE
PFNA	10.7	8.62	5.43	22	FALSE	FALSE	FALSE	FALSE
PFUNA	1.76	2.25	5.43	24	FALSE	FALSE	FALSE	FALSE

FIELD DUPLICATE PRECISION
SDG 1701279

ANALYTE	ORIGINAL	DUPLICATE	RL	RPD	RPD > 30%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >RL
PFHXA	27	24	5.79	12	FALSE	TRUE	TRUE	FALSE
PFHPA	19	16.1	5.79	17	FALSE	TRUE	TRUE	FALSE
PFHXS	6.49	5.46	5.79	17	FALSE	FALSE	FALSE	FALSE
PFOA	25	23	5.79	8	FALSE	TRUE	TRUE	FALSE
PFOS	6.39	5.06	5.79	23	FALSE	FALSE	FALSE	FALSE
PFNA	3.05	1.84	5.79	49	TRUE	FALSE	FALSE	FALSE

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1701279-01	GR-OF-20170918	Modified EPA Method 537	13C3-PFBS	H	171
1701279-03	MH-117T-20170918	Modified EPA Method 537	13C3-PFBS	H	185
1701279-04	MH-118.5N-20170918	Modified EPA Method 537	13C3-PFBS	H	171
1701279-05	MH-118.5T-20170918	Modified EPA Method 537	13C3-PFBS	H	173
1701279-06	MH-121.5N-20170918	Modified EPA Method 537	13C3-PFBS	H	173
1701279-09	DUP01-20170918	Modified EPA Method 537	13C3-PFBS	H	154
1701279-10	MH-140-BOTTOM	Modified EPA Method 537	13C3-PFBS	H	172
1701279-11	MH-140N-20170918	Modified EPA Method 537	13C3-PFBS	H	155
1701279-12	INTERCEPTOR SUMP-20170918	Modified EPA Method 537	13C3-PFBS	H	165
1701279-15	SPRING-20170918	Modified EPA Method 537	13C3-PFBS	H	159
B7I0105-BLK1	B7I0105-BLK1	Modified EPA Method 537	13C3-PFBS	H	155
B7I0105-BS1	B7I0105-BS1	Modified EPA Method 537	13C3-PFBS	H	189
B7I0105-MS1	B7I0105-MS1	Modified EPA Method 537	13C3-PFBS	H	165
B7I0105-MSD1	B7I0105-MSD1	Modified EPA Method 537	13C3-PFBS	H	163

H = Recovery was outside laboratory acceptance criteria.

Sample ID: Method Blank **Modified EPA Method 537**

Client Data				Laboratory Data							
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B7I0105-BLK1	Column:	BEH C18				
Project:	NAWC Trenton										

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.895	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFHxA	ND	1.09	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFHpA	ND	0.296	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFHxS	ND	0.474	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFOA	ND	0.326	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFOS	ND	0.404	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFNA	ND	0.405	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFDA	ND	0.745	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
MeFOSAA	ND	0.825	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFUnA	ND	0.525	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
EtFOSAA	ND	0.685	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFDoA	ND	0.396	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFTrDA	ND	0.247	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
PFTeDA	ND	0.378	2.50	4.00		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	155	50 - 150	H	B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFHxA	IS	90.7	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C4-PFHpA	IS	97.5	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
18O2-PFHxS	IS	92.5	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFOA	IS	95.4	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C8-PFOS	IS	96.0	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C5-PFNA	IS	83.0	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFDA	IS	81.5	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
d3-MeFOSAA	IS	69.8	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFUnA	IS	75.1	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
d5-EtFOSAA	IS	66.9	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFDoA	IS	71.0	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1
13C2-PFTeDA	IS	79.2	50 - 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:40	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: OPR

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B7I0105-BS1	Column:	BEH C18
Project:	NAWC Trenton						

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	34.2	40.0	85.5	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFHxA	39.0	40.0	97.6	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFHpA	36.0	40.0	90.0	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFHxS	37.7	40.0	94.3	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFOA	35.7	40.0	89.4	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFOS	39.6	40.0	99.1	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFNA	38.3	40.0	95.8	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFDA	35.7	40.0	89.3	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
MeFOSAA	30.8	40.0	77.1	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFUnA	35.3	40.0	88.2	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
EtFOSAA	35.8	40.0	89.6	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFDoA	40.1	40.0	100	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFTTrDA	33.5	40.0	83.8	60-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
PFTeDA	36.9	40.0	92.3	70-130		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	189	50- 150	H	B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFHxA	IS	114	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C4-PFHpA	IS	109	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
18O2-PFHxS	IS	109	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFOA	IS	96.8	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C8-PFOS	IS	95.1	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C5-PFNA	IS	97.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFDA	IS	89.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
d3-MeFOSAA	IS	82.3	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFUnA	IS	90.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
d5-EtFOSAA	IS	78.8	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFDoA	IS	82.4	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1
13C2-PFTeDA	IS	93.0	50- 150		B7I0105	25-Sep-17	0.250 L	26-Sep-17 12:07	1

Sample ID: GR-OF-20170918

Modified EPA Method 537

Name:	Tetra Tech	Lab Sample:	B7I0105-MS1/B7I0105-MSD1	Source Lab Sample:	1701279-01
Project:	NAWC Trenton	QC Batch:	B7I0105	Date Extracted:	25-Sep-17
Matrix:	Aqueous	Samp Size:	0.116/0.117 L	Column:	BEH C18

Analyte	Sample (ng/L)	MS (ng/L)	MS Spike Amt	MS % Rec	MS Quals	MSD (ng/L)	MSD Spike Amt	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	14.3	98.7	86.0	98.1		104	85.6	104	5.84		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFHxA	72.9	149	86.0	88.1		150	85.6	89.8	1.91		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFHpA	27.1	105	86.0	90.9		110	85.6	97.0	6.49		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFHxS	87.3	175	86.0	102		138	85.6	59.3	52.9	H	70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFOA	12.1	94.0	86.0	95.2		97.4	85.6	99.7	4.62		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFOS	184	350	86.0	192	H	352	85.6	195	1.55	H	70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFNA	ND	84.3	86.0	97.8		91.8	85.6	107	8.98		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFDA	ND	80.0	86.0	93.0		85.5	85.6	99.9	7.15		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
MeFOSAA	ND	79.7	86.0	92.6		80.7	85.6	94.3	1.82		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFUnA	ND	91.1	86.0	106		82.5	85.6	96.4	9.49		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
EtFOSAA	ND	74.2	86.0	86.3		84.8	85.6	99.0	13.7		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFDoA	ND	67.7	86.0	78.7		72.9	85.6	85.2	7.93		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFTrDA	ND	75.5	86.0	87.8		74.7	85.6	87.3	0.571		60-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1
PFTeDA	ND	76.1	86.0	88.4		75.5	85.6	88.3	0.113		70-130	25	26-Sep-17 12:50	1	26-Sep-17 13:01	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	165	H	163	H	50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFHxA	IS	103		112		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C4-PFHpA	IS	96.2		91.1		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
18O2-PFHxS	IS	97.6		115		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFOA	IS	92.1		99.5		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C8-PFOS	IS	91.5		92.9		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C5-PFNA	IS	92.6		93.8		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFDA	IS	92.9		85.5		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
d3-MeFOSAA	IS	85.3		83.3		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFUnA	IS	74.8		86.0		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
d5-EtFOSAA	IS	87.8		80.9		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFDoA	IS	87.4		91.6		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1
13C2-PFTeDA	IS	94.8		96.6		50-150	26-Sep-17 12:50	1	26-Sep-17 13:01	1

Process Sheet
Workorder: 1701279

Prep Expiration: 2017-Oct-02
 Client: Tetra Tech

Workorder Due: 11-Oct-17 00:00

TAT: 21

Method: **537M PFAS DOD (LOQ as mRL)**
 Matrix: **Aqueous**

Prep Batch: B7I0105

Version: 537 (14 Analyte)
 DoD: **DoD QSM 5.1**

Prep Data Entered: 9.26.17 JHC
 Date and Initials

Initial Sequence: _____

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701279-01	ABC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GR-OF-20170918 <u>GR-OF-20170918</u>	<u>KC 9.22.17</u> MS/MSD	WR-2 F-7	HDPE Bottle, 125 mL
1701279-02		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-117N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-117T-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-118.5N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-118.5T-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-06		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-121.5N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-121.5T-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-08		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WEST DITCH IN-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-09		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DUP01-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-10		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-140-BOTTOM <u>MH140-BOTTOM-20170918</u>	<u>KC 9.22.17</u>	WR-2 F-7	HDPE Bottle, 125 mL
1701279-11		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MH-140N-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-12		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	INTERCEPTOR SUMP-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-13		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DUP03-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-14		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ROOF DRAIN-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-15		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SPRING-20170918		WR-2 F-7	HDPE Bottle, 125 mL
1701279-16	V	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FRB01-20170918		WR-2 F-7	HDPE Bottle, 125 mL

WO Comments: Attach balance check doc.

Pre-Prep Check Out: KC 9.22.17 Prep Check Out: NA JHC 9.25.17 Prep Reconciled Inits/Date: KC 9.22.17
 Pre-Prep Check In: NA Prep Check In: NA Spike Reconciled Inits/Date: JHC 9.25.17
 VialBoxID: Heavy Dirt

Dataset: U:\Q4.PRO\results\170926M1\170926M1-38.qld

Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 1712509, Description: PFC CS3 1712509

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.83e4	2.06e4		1.88	1.85	11.1	9.48	94.8
2	2 PFPeA	263.1 > 219.1	3.83e4	4.47e4		2.98	2.96	10.7	10.1	100.6
3	3 PFBS	299.1 > 79.9	9.69e3	1.11e4		3.17	3.14	10.9	10.4	104.3
4	4 PFHxA	313.2 > 268.9	6.14e4	2.00e4		3.37	3.36	15.4	9.90	99.0
5	5 PFHpA	363.1 > 319.1	6.42e4	7.86e4		3.63	3.61	10.2	9.98	99.8
6	6 L-PFHxS	399.0 > 80.0	9.54e3	5.50e3		3.71	3.69	21.7	9.23	92.3
7	8 6:2 FTS	427.1 > 407	6.92e3	8.17e3		3.84	3.82	10.6	9.18	91.8
8	9 L-PFOA	413 > 368.7	5.34e4	5.75e4		3.84	3.83	11.6	10.7	107.4
9	11 PFHpS	449 > 79.9	9.54e3	5.75e4		3.90	3.88	2.07	9.16	91.6
10	12 PFNA	463.1 > 419.1	5.56e4	6.17e4		4.03	4.02	11.3	10.1	101.3
11	13 PFOSA	498.1 > 77.8	6.22e3	7.74e3		4.04	4.02	10.0	9.04	90.4
12	14 L-PFOS	499 > 79.9	9.36e3	1.22e4		4.08	4.07	9.56	8.95	89.5
13	16 PFDA	513 > 468.8	5.86e4	4.80e4		4.21	4.20	15.3	10.3	103.1
14	17 8:2 FTS	527 > 506.9	8.22e3	7.37e3		4.21	4.19	14.0	8.55	85.5
15	18 N-MeFOSAA	570.1 > 419	1.50e4	1.27e4		4.24	4.22	192	8.42	84.2
16	19 N-EtFOSAA	584.2 > 419	1.28e4	1.32e4		4.32	4.30	157	9.71	97.1
17	20 PFUnA	562.9 > 518.9	4.28e4	5.39e4		4.39	4.37	9.92	9.94	99.4
18	21 PFDS	598.9 > 80	8.98e3	5.39e4		4.45	4.43	2.08	9.45	94.5
19	22 PFDoA	613.0 > 569.1	4.63e4	5.33e4		4.59	4.56	10.9	8.97	89.7
20	23 N-MeFOSA	512.1 > 168.9	9.88e3	2.50e4		4.70	4.69	59.3	51.6	103.2
21	24 PFTrDA	662.9 > 618.9	6.36e4	5.33e4		4.78	4.76	14.9	9.54	95.4
22	25 PFTeDA	712.9 > 668.8	4.39e4	4.26e4		4.99	4.97	12.9	9.24	92.4
23	26 N-EtFOSA	526.1 > 168.9	1.23e4	3.91e4		5.20	5.20	47.1	49.5	99.0
24	27 PFHxDA	812.8 > 768.9	6.01e4	2.02e4		5.40	5.37	14.9	9.45	94.5
25	28 PFODA	912.8 > 868.8	7.10e4	2.02e4		5.79	5.76	17.6	10.8	107.7
26	29 N-MeFOSE	616.1 > 58.9	1.63e4	4.70e4		5.50	5.51	52.2	47.2	94.5
27	30 N-EtFOSE	630.1 > 58.9	1.88e4	4.63e4		5.68	5.69	60.9	49.9	99.8
28	31 13C3-PFBA	216.1 > 172.1	2.06e4	2.27e4	0.890	1.88	1.85	11.4	12.8	102.3
29	32 13C3-PFPeA	266.1 > 222.1	4.47e4	6.99e4	0.236	2.98	2.96	3.20	13.6	108.4
30	33 13C3-PFBS	302.1 > 79.9	1.11e4	6.99e4	0.056	3.17	3.14	0.795	14.2	113.8
31	34 13C3-PFHxA	315 > 269.8	2.00e4	6.99e4	0.283	3.37	3.36	1.43	5.04	100.8

70-130

DM
9/27/17

JH. 9/27/2017

50-110

Work Order 170127

Dataset: U:\Q4.PRO\results\170926M1\170926M1-38.qld

Last Altered: Wednesday, September 27, 2017 11:32:46 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 11:32:53 Pacific Daylight Time

Name: 170926M1_38, Date: 26-Sep-2017, Time: 15:33:50, ID: ST170926M1-11 PFC CS3 1712509, Description: PFC CS3 1712509

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367 > 322.1	7.86e4	6.99e4	0.499	3.63	3.61	5.62	11.3	90.1
33	36 18O2-PFHxS	403 > 103.0	5.50e3	1.05e4	0.482	3.71	3.69	6.52	13.5	108.1
34	37 13C2-6:2 FTS	429.1 > 408.9	8.17e3	4.74e4	0.183	3.84	3.82	2.15	11.8	94.1
35	38 13C2-PFOA	414.9 > 369.7	5.75e4	4.74e4	1.158	3.84	3.83	15.2	13.1	104.9
36	39 13C5-PFNA	468.1 > 423.1	6.17e4	6.26e4	0.888	4.03	4.01	12.3	13.9	110.9
37	40 13C8-PFOSA	506.1 > 78.0	7.74e3	5.80e4	0.143	4.04	4.02	1.67	11.7	93.6
38	41 13C8-PFOS	507 > 79.9	1.22e4	1.24e4	1.013	4.08	4.07	12.4	12.2	97.9
39	42 13C2-PFDA	515.1 > 469.9	4.80e4	5.60e4	0.876	4.21	4.20	10.7	12.2	97.8
40	43 13C2-8:2 FTS	529.1 > 508.7	7.37e3	5.60e4	0.148	4.21	4.19	1.64	11.1	89.0
41	44 d3-N-MeFOSAA	573.3 > 419	1.27e4	5.80e4	0.017	4.24	4.23	2.74	161	98.9
42	45 d5-N-EtFOSAA	589.3 > 419	1.32e4	5.80e4	0.019	4.32	4.29	2.85	154	94.5
43	46 13C2-PFUnA	565 > 519.8	5.39e4	5.80e4	0.959	4.39	4.37	11.6	12.1	96.9
44	47 13C2-PFDoA	615.1 > 570.1	5.33e4	5.80e4	1.003	4.59	4.56	11.5	11.5	91.7
45	48 d3-N-MeFOSA	515.2 > 168.9	2.50e4	5.80e4	0.041	4.70	4.72	5.39	130	86.6
46	49 13C2-PFTeDA	714.8 > 669.6	4.26e4	5.80e4	0.716	4.99	4.96	9.18	12.8	102.5
47	50 d5-N-ETFOSA	531.1 > 168.9	3.91e4	5.80e4	0.063	5.20	5.23	8.43	133	88.7
48	51 13C2-PFHxDA	815 > 769.7	2.02e4	5.80e4	0.892	5.40	5.37	4.36	4.88	97.7
49	52 d7-N-MeFOSE	623.1 > 58.9	4.70e4	5.80e4	0.075	5.50	5.50	10.1	134	89.5
50	53 d9-N-EtFOSE	639.2 > 58.8	4.63e4	5.80e4	0.076	5.68	5.67	9.98	131	87.0
51	54 13C4-PFBA	217.1 > 172.1	2.27e4	2.27e4	1.000	1.88	1.85	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	6.99e4	6.99e4	1.000	3.37	3.36	5.00	5.00	100.0
53	56 13C3-PFHxS	402.1 > 80.0	1.05e4	1.05e4	1.000	3.71	3.69	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	4.74e4	4.74e4	1.000	3.84	3.83	12.5	12.5	100.0
55	58 13C9-PFNA	472.1 > 427.1	6.26e4	6.26e4	1.000	4.03	4.01	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	1.24e4	1.24e4	1.000	4.08	4.07	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	5.60e4	5.60e4	1.000	4.21	4.20	12.5	12.5	100.0
58	61 13C7-PFUnA	570.1 > 524.8	5.80e4	5.80e4	1.000	4.39	4.38	12.5	12.5	100.0

SD-150
↓

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:11:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170926M1_5	IPA	26-Sep-17	09:18:26
2	170926M1_6	ST170926M1-1 PFC CS-2 17I2504	26-Sep-17	09:34:33
3	170926M1_7	ST170926M1-2 PFC CS-1 17I2505	26-Sep-17	09:56:46
4	170926M1_8	ST170926M1-3 PFC CS0 17I2506	26-Sep-17	10:09:38
5	170926M1_9	ST170926M1-4 PFC CS1 17I2507	26-Sep-17	10:20:25
6	170926M1_10	ST170926M1-5 PFC CS2 17I2508	26-Sep-17	10:31:03
7	170926M1_11	ST170926M1-6 PFC CS3 17I2509	26-Sep-17	10:41:42
8	170926M1_12	ST170926M1-7 PFC CS4 17I2510	26-Sep-17	10:52:20
9	170926M1_13	ST170926M1-8 PFC CS5 17I2511	26-Sep-17	11:02:58
10	170926M1_14	ST170926M1-9 PFC CS6 17I2512	26-Sep-17	11:13:37
11	170926M1_15	ST170926M1-10 PFC CS7 17I2513	26-Sep-17	11:24:23
12	170926M1_16	IPA	26-Sep-17	11:35:02
13	170926M1_17	ICV170926M1-1 PFC ICV 17I2514	26-Sep-17	11:45:48
14	170926M1_18	B7I0074-BS1 OPR 0.125	26-Sep-17	11:56:37
15	170926M1_19	B7I0105-BS1 OPR 0.125	26-Sep-17	12:07:32
16	170926M1_20	IPA	26-Sep-17	12:18:42
17	170926M1_21	B7I0074-BLK1 Method Blank 0.125	26-Sep-17	12:29:28
18	170926M1_22	B7I0105-BLK1 Method Blank 0.125	26-Sep-17	12:40:06
19	170926M1_23	B7I0105-MS1 Matrix Spike 0.125	26-Sep-17	12:50:45
20	170926M1_24	B7I0105-MSD1 Matrix Spike Dup 0.125	26-Sep-17	13:01:31
21	170926M1_25	1701222-01 RI17-EB1-090817 0.125	26-Sep-17	13:12:18
22	170926M1_26	1701222-02 VAS-RI17-B23 (105-107FT) 0.125	26-Sep-17	13:23:04
23	170926M1_27	1701222-04 VAS-RI17-B22 (111-113FT) 0.125	26-Sep-17	13:33:42
24	170926M1_28	1701222-05 VAS-RI17-B22 (111-113FT) DUP ...	26-Sep-17	13:44:29
25	170926M1_29	1701267-01 Lodge Sink 0.125	26-Sep-17	13:55:07
26	170926M1_30	1701270-01 Anchorage (420-126505-1) 0.125	26-Sep-17	14:05:46
27	170926M1_31	1701270-02 Field Blank (PFAS) (420-126505-...	26-Sep-17	14:17:06
28	170926M1_32	1701279-01 GR-OF-20170918 0.125	26-Sep-17	14:28:46
29	170926M1_33	1701279-02 MH-117N-20170918 0.125	26-Sep-17	14:40:21
30	170926M1_34	1701279-03 MH-117T-20170918 0.125	26-Sep-17	14:51:00
31	170926M1_35	1701279-04 MH-118.5N-20170918 0.125	26-Sep-17	15:01:50

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:11:37 Pacific Daylight Time

Compound name: PFBA

Name	ID	Acq.Date	Acq.Time
32	170926M1_36	1701279-05 MH-118.5T-20170918 0.125	26-Sep-17 15:12:33
33	170926M1_37	IPA	26-Sep-17 15:23:12
34	170926M1_38	ST170926M1-11 PFC CS3 17I2509	26-Sep-17 15:33:50
35	170926M1_39	IPA	26-Sep-17 15:44:29
36	170926M1_40	1701279-06 MH-121.5N-20170918 0.125	26-Sep-17 15:55:18
37	170926M1_41	1701279-07 MH-121.5T-20170918 0.125	26-Sep-17 16:06:02
38	170926M1_42	1701279-08 WEST DITCH IN-20170918 0.125	26-Sep-17 16:17:01
39	170926M1_43	1701279-09 DUP01-20170918 0.125	26-Sep-17 16:28:13
40	170926M1_44	1701279-10 MH-140-BOTTOM 0.125	26-Sep-17 16:38:53
41	170926M1_45	1701279-11 MH-140N-20170918 0.125	26-Sep-17 16:49:38
42	170926M1_46	1701279-12 INTERCEPTOR SUMP-2017091...	26-Sep-17 17:00:16
43	170926M1_47	1701279-13 DUP03-20170918 0.125	26-Sep-17 17:10:55
44	170926M1_48	1701279-14 ROOF DRAIN-20170918 0.125	26-Sep-17 17:21:33
45	170926M1_49	1701279-15 SPRING-20170918 0.125	26-Sep-17 17:32:11
46	170926M1_50	1701279-16 FRB01-20170918 0.125	26-Sep-17 17:42:58
47	170926M1_51	IPA	26-Sep-17 17:53:36
48	170926M1_52	ST170926M1-12 PFC CS3 17I2509	26-Sep-17 18:04:15
49	170926M1_53	IPA	26-Sep-17 18:15:01
50	170926M1_54	B7I0111-BS1 OPR 1	26-Sep-17 18:25:43
51	170926M1_55	B7I0127-BS1 OPR 0.125	26-Sep-17 18:36:27
52	170926M1_56	B7I0128-BS1 OPR 0.125	26-Sep-17 18:47:14
53	170926M1_57	IPA	26-Sep-17 18:58:00
54	170926M1_58	B7I0111-BLK1 Method Blank 1	26-Sep-17 19:08:39
55	170926M1_59	B7I0124-BLK1 Method Blank 1	26-Sep-17 19:19:25
56	170926M1_60	B7I0127-BLK1 Method Blank 0.125	26-Sep-17 19:30:03
57	170926M1_61	B7I0128-BLK1 Method Blank 0.125	26-Sep-17 19:40:50
58	170926M1_62	B7I0127-MS1 Matrix Spike 0.1161	26-Sep-17 19:51:36
59	170926M1_63	B7I0127-MSD1 Matrix Spike Dup 0.11565	26-Sep-17 20:02:24
60	170926M1_64	B7I0128-MS1 Matrix Spike 0.125	26-Sep-17 20:13:10
61	170926M1_65	B7I0128-MSD1 Matrix Spike Dup 0.125	26-Sep-17 20:23:56
62	170926M1_66	1701187-01 GB-1 1	26-Sep-17 20:34:34
63	170926M1_67	B7I0124-BS1 OPR 1	26-Sep-17 20:45:13
64	170926M1_68	B7I0124-BS2 OPR 1	26-Sep-17 20:55:51
65	170926M1_69	B7I0124-BS3 OPR 1	26-Sep-17 21:06:30

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	170926M1_70	B7I0124-BS4 OPR 1	26-Sep-17	21:17:08
67	170926M1_71	1701265-35 GW-MW-8 0.11389	26-Sep-17	21:27:47
68	170926M1_72	1701265-36 DW-R-21SMW-DUP 0.11685	26-Sep-17	21:38:33
69	170926M1_73	1701265-37 DW-R-415BHR 0.11532	26-Sep-17	21:49:12
70	170926M1_74	1701265-38 GW-EB-WATER LEVEL 0.11063	26-Sep-17	21:59:58
71	170926M1_75	1701265-39 GW-FPC-5B 0.10809	26-Sep-17	22:10:44
72	170926M1_76	IPA	26-Sep-17	22:21:23
73	170926M1_77	ST170926M1-13 PFC CS0 17I2506	26-Sep-17	22:32:09
74	170926M1_78	IPA	26-Sep-17	22:42:56
75	170926M1_79	1701265-40 FB-DI-WATER 0.11434	26-Sep-17	22:53:34
76	170926M1_80	1701265-41 DW-EB-APPARTUS 0.11679	26-Sep-17	23:04:20
77	170926M1_81	1701265-42 DW-R-9BFL 0.11363	26-Sep-17	23:14:59
78	170926M1_82	1701265-43 GW-AE-3B 0.11207	26-Sep-17	23:25:55
79	170926M1_83	1701265-49 DW-R-25FW 0.11237	26-Sep-17	23:36:43
80	170926M1_84	1701265-50 GW-FPC-3A 0.11653	26-Sep-17	23:47:30
81	170926M1_85	1701265-51 GW-FPC-11B 0.11147	26-Sep-17	23:58:08
82	170926M1_86	1701265-52 GW-GZ-105 0.11455	27-Sep-17	00:08:47
83	170926M1_87	1701265-53 GW-GZ-105-DUP 0.11181	27-Sep-17	00:19:25
84	170926M1_88	1701265-54 GW-FPC-3C 0.11716	27-Sep-17	00:30:03
85	170926M1_89	1701265-55 GW-FPC-11A 0.10712	27-Sep-17	00:40:48
86	170926M1_90	1701265-56 GW-FPC-3B 0.11821	27-Sep-17	00:51:43
87	170926M1_91	IPA	27-Sep-17	01:02:33
88	170926M1_92	ST170926M1-14 PFC CS3 17I2610	27-Sep-17	01:13:11
89	170926M1_93	IPA	27-Sep-17	01:23:58
90	170926M1_94	1701265-57 DW-R-178ALR 0.1168	27-Sep-17	01:34:44
91	170926M1_95	1701265-58 S-EB-SEDIMENT 0.10956	27-Sep-17	01:45:23
92	170926M1_96	1701265-59 GW-FPC-9A 0.11173	27-Sep-17	01:56:09
93	170926M1_97	1701265-60 SW-SW-5 0.125	27-Sep-17	02:06:47
94	170926M1_98	1701265-61 SW-SW-5-DUP 0.125	27-Sep-17	02:17:26
95	170926M1_99	1701265-62 GW-GZ-117 0.125	27-Sep-17	02:28:08
96	170926M1_100	1701265-63 GW-AE-2A 0.125	27-Sep-17	02:39:02
97	170926M1_101	1701265-64 GW-GZ-109 0.125	27-Sep-17	02:49:40
98	170926M1_102	1701265-65 DW-R-4ROD 0.125	27-Sep-17	03:00:27
99	170926M1_103	1701265-66 SW-SW-111 0.125	27-Sep-17	03:11:13

Dataset: Untitled

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
100	170926M1_104	1701265-67 GW-FPC-9B 0.125	27-Sep-17	03:21:52
101	170926M1_105	IPA	27-Sep-17	03:32:30
102	170926M1_106	ST170926M1-15 PFC CS3 17I2610	27-Sep-17	03:43:09
103	170926M1_107	IPA	27-Sep-17	03:53:55
104	170926M1_108	1701265-68 DW-R-9SMW 0.125	27-Sep-17	04:04:33
105	170926M1_109	1701265-69 GW-MW-9 0.125	27-Sep-17	04:15:21
106	170926M1_110	1701265-70 GW-AE-1B 0.125	27-Sep-17	04:26:25
107	170926M1_111	1701265-71 GW-AE-2B 0.125	27-Sep-17	04:37:21
108	170926M1_112	1701265-72 GW-MW-5D 0.125	27-Sep-17	04:48:12
109	170926M1_113	1701265-73 GW-MW-10 0.125	27-Sep-17	04:59:03
110	170926M1_114	1701265-74 GW-MW-4 0.125	27-Sep-17	05:09:49
111	170926M1_115	1701265-75 GW-MW-4 DUP 0.125	27-Sep-17	05:20:27
112	170926M1_116	1701265-76 DW-R-16SMW 0.125	27-Sep-17	05:31:06
113	170926M1_117	1701265-77 SW-SW-103 0.125	27-Sep-17	05:41:52
114	170926M1_118	IPA	27-Sep-17	05:52:30
115	170926M1_119	ST170926M1-16 PFC CS3 17I2610	27-Sep-17	06:03:17
116	170926M1_120	IPA	27-Sep-17	06:14:03
117	170926M1_121	1701265-78 GW-AE-1A 0.125	27-Sep-17	06:24:42
118	170926M1_122	1701265-82 DW-R-339BHR 0.125	27-Sep-17	06:35:20
119	170926M1_123	Kyle tester 17I2632	27-Sep-17	06:45:58
120	170926M1_124	IPA	27-Sep-17	06:56:45
121	170926M1_125	ST170926M1-17 PFC CS3 17I2610	27-Sep-17	07:07:23
122	170926M1_126	IPA	27-Sep-17	07:18:10

Dataset: U:\Q4.PRO\results\170926M1\170926M1-52.qld

Last Altered: Wednesday, September 27, 2017 12:15:10 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 17I2509, Description: PFC CS3 17I2509

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.60e4	1.82e4		1.88	1.93	11.0	9.44	94.4
2	2 PFPeA	263.1 > 219.1	3.66e4	4.53e4		2.98	2.99	10.1	9.47	94.7
3	3 PFBS	299.1 > 79.9	9.31e3	1.05e4		3.17	3.17	11.0	10.6	105.6
4	4 PFHxA	313.2 > 268.9	6.22e4	2.03e4		3.37	3.38	15.3	9.86	98.6
5	5 PFHpA	363.1 > 319.1	6.50e4	7.79e4		3.63	3.65	10.4	10.2	101.9
6	6 L-PFHxS	399.0 > 80.0	9.12e3	4.69e3		3.71	3.72	24.3	10.3	103.4
7	8 6:2 FTS	427.1 > 407	7.13e3	8.67e3		3.84	3.85	10.3	8.88	88.8
8	9 L-PFOA	413 > 368.7	4.71e4	5.70e4		3.84	3.85	10.3	9.51	95.1
9	11 PFHpS	449 > 79.9	8.35e3	5.70e4		3.90	3.92	1.83	8.07	80.7
10	12 PFNA	463.1 > 419.1	4.46e4	4.89e4		4.03	4.04	11.4	10.3	102.6
11	13 PFOSA	498.1 > 77.8	5.10e3	6.13e3		4.04	4.05	10.4	9.36	93.6
12	14 L-PFOS	499 > 79.9	1.00e4	1.26e4		4.08	4.10	9.96	9.33	93.3
13	16 PFDA	513 > 468.8	5.81e4	4.98e4		4.21	4.22	14.6	9.82	98.2
14	17 8:2 FTS	527 > 506.9	8.59e3	7.37e3		4.21	4.22	14.6	8.94	89.4
15	18 N-MeFOSAA	570.1 > 419	1.56e4	1.20e4		4.24	4.25	211	9.28	92.8
16	19 N-EiFOSAA	584.2 > 419	1.21e4	1.18e4		4.32	4.33	167	10.3	103.0
17	20 PFUnA	562.9 > 518.9	4.43e4	4.95e4		4.39	4.40	11.2	11.2	112.1
18	21 PFDS	598.9 > 80	9.99e3	4.95e4		4.45	4.45	2.52	11.5	114.6
19	22 PFDoA	613.0 > 569.1	5.67e4	5.77e4		4.59	4.59	12.3	10.1	101.4
20	23 N-MeFOSA	512.1 > 168.9	8.48e3	2.07e4		4.70	4.82	61.4	53.5	106.9
21	24 PFTTrDA	662.9 > 618.9	6.25e4	5.77e4		4.78	4.79	13.5	8.65	86.5
22	25 PFTeDA	712.9 > 668.8	4.55e4	4.49e4		4.99	4.99	12.6	9.07	90.7
23	26 N-EiFOSA	526.1 > 168.9	1.02e4	3.10e4		5.20	5.30	49.3	51.8	103.6
24	27 PFHxDA	812.8 > 768.9	5.85e4	1.96e4		5.40	5.39	15.0	9.52	95.2
25	28 PFODA	912.8 > 868.8	7.15e4	1.96e4		5.79	5.77	18.3	11.2	112.3
26	29 N-MeFOSE	616.1 > 58.9	1.24e4	3.50e4		5.50	5.50	53.2	48.2	96.4
27	30 N-EiFOSE	630.1 > 58.9	1.37e4	3.46e4		5.68	5.69	59.3	48.6	97.1
28	31 13C3-PFBA	216.1 > 172.1	1.82e4	2.05e4	0.890	1.88	1.93	11.1	12.5	99.6
29	32 13C3-PFPeA	266.1 > 222.1	4.53e4	6.87e4	0.236	2.98	2.99	3.30	14.0	111.8
30	33 13C3-PFBS	302.1 > 79.9	1.05e4	6.87e4	0.056	3.17	3.16	0.768	13.7	109.9
31	Work Order 170926M1-12	315 > 269.8	2.03e4	6.87e4	0.283	3.37	3.38	1.48	5.22	104.4

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Dataset: U:\Q4.PRO\results\170926M1\170926M1-52.qld

Last Altered: Wednesday, September 27, 2017 12:15:10 Pacific Daylight Time
Printed: Wednesday, September 27, 2017 12:15:27 Pacific Daylight Time

Name: 170926M1_52, Date: 26-Sep-2017, Time: 18:04:15, ID: ST170926M1-12 PFC CS3 17I2509, Description: PFC CS3 17I2509

#	Name	Trace	Area	IS Area	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec	
32	35	13C4-PFHpA	367 > 322.1	7.79e4	6.87e4	0.499	3.63	3.65	5.67	11.4	90.9
33	36	18O2-PFHxS	403 > 103.0	4.69e3	9.19e3	0.482	3.71	3.72	6.39	13.2	105.9
34	37	13C2-6:2 FTS	429.1 > 408.9	8.67e3	5.04e4	0.183	3.84	3.84	2.15	11.7	93.9
35	38	13C2-PFOA	414.9 > 369.7	5.70e4	5.04e4	1.158	3.84	3.85	14.1	12.2	97.7
36	39	13C5-PFNA	468.1 > 423.1	4.89e4	5.89e4	0.888	4.03	4.04	10.4	11.7	93.6
37	40	13C8-PFOSA	506.1 > 78.0	6.13e3	5.04e4	0.143	4.04	4.05	1.52	10.7	85.2
38	41	13C8-PFOS	507 > 79.9	1.26e4	1.18e4	1.013	4.08	4.10	13.3	13.1	105.2
39	42	13C2-PFDA	515.1 > 469.9	4.98e4	5.80e4	0.876	4.21	4.22	10.7	12.3	98.2
40	43	13C2-8:2 FTS	529.1 > 508.7	7.37e3	5.80e4	0.148	4.21	4.21	1.59	10.8	86.1
41	44	d3-N-MeFOSAA	573.3 > 419	1.20e4	5.04e4	0.017	4.24	4.25	2.98	175	107.4
42	45	d5-N-EtFOSAA	589.3 > 419	1.18e4	5.04e4	0.019	4.32	4.32	2.93	157	96.8
43	46	13C2-PFUnA	565 > 519.8	4.95e4	5.04e4	0.959	4.39	4.40	12.3	12.8	102.4
44	47	13C2-PFDoA	615.1 > 570.1	5.77e4	5.04e4	1.003	4.59	4.59	14.3	14.3	114.1
45	48	d3-N-MeFOSA	515.2 > 168.9	2.07e4	5.04e4	0.041	4.70	4.85	5.14	124	82.6
46	49	13C2-PFTeDA	714.8 > 669.6	4.49e4	5.04e4	0.716	4.99	4.99	11.1	15.5	124.4
47	50	d5-N-ETFOSA	531.1 > 168.9	3.10e4	5.04e4	0.063	5.20	5.32	7.69	121	80.9
48	51	13C2-PFHxDA	815 > 769.7	1.96e4	5.04e4	0.892	5.40	5.39	4.85	5.43	108.6
49	52	d7-N-MeFOSE	623.1 > 58.9	3.50e4	5.04e4	0.075	5.50	5.49	8.68	115	76.6
50	53	d9-N-EtFOSE	639.2 > 58.8	3.46e4	5.04e4	0.076	5.68	5.67	8.59	112	74.9
51	54	13C4-PFBA	217.1 > 172.1	2.05e4	2.05e4	1.000	1.88	1.92	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	6.87e4	6.87e4	1.000	3.37	3.38	5.00	5.00	100.0
53	56	13C3-PFHxS	402.1 > 80.0	9.19e3	9.19e3	1.000	3.71	3.72	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	5.04e4	5.04e4	1.000	3.84	3.85	12.5	12.5	100.0
55	58	13C9-PFNA	472.1 > 427.1	5.89e4	5.89e4	1.000	4.03	4.04	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	1.18e4	1.18e4	1.000	4.08	4.10	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	5.80e4	5.80e4	1.000	4.21	4.22	12.5	12.5	100.0
58	61	13C7-PFUnA	570.1 > 524.8	5.04e4	5.04e4	1.000	4.39	4.40	12.5	12.5	100.0

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Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFBA

Name	ID	Acq.Date	Acq.Time
1 170926M1_5	IPA	26-Sep-17	09:18:26
2 170926M1_6	ST170926M1-1 PFC CS-2 17I2504	26-Sep-17	09:34:33
3 170926M1_7	ST170926M1-2 PFC CS-1 17I2505	26-Sep-17	09:56:46
4 170926M1_8	ST170926M1-3 PFC CS0 17I2506	26-Sep-17	10:09:38
5 170926M1_9	ST170926M1-4 PFC CS1 17I2507	26-Sep-17	10:20:25
6 170926M1_10	ST170926M1-5 PFC CS2 17I2508	26-Sep-17	10:31:03
7 170926M1_11	ST170926M1-6 PFC CS3 17I2509	26-Sep-17	10:41:42
8 170926M1_12	ST170926M1-7 PFC CS4 17I2510	26-Sep-17	10:52:20
9 170926M1_13	ST170926M1-8 PFC CS5 17I2511	26-Sep-17	11:02:58
10 170926M1_14	ST170926M1-9 PFC CS6 17I2512	26-Sep-17	11:13:37
11 170926M1_15	ST170926M1-10 PFC CS7 17I2513	26-Sep-17	11:24:23
12 170926M1_16	IPA	26-Sep-17	11:35:02
13 170926M1_17	ICV170926M1-1 PFC ICV 17I2514	26-Sep-17	11:45:48
14 170926M1_18	B7I0074-BS1 OPR 0.125	26-Sep-17	11:56:37
15 170926M1_19	B7I0105-BS1 OPR 0.125	26-Sep-17	12:07:32
16 170926M1_20	IPA	26-Sep-17	12:18:42
17 170926M1_21	B7I0074-BLK1 Method Blank 0.125	26-Sep-17	12:29:28
18 170926M1_22	B7I0105-BLK1 Method Blank 0.125	26-Sep-17	12:40:06
19 170926M1_23	B7I0105-MS1 Matrix Spike 0.125	26-Sep-17	12:50:45
20 170926M1_24	B7I0105-MSD1 Matrix Spike Dup 0.125	26-Sep-17	13:01:31
21 170926M1_25	1701222-01 RI17-EB1-090817 0.125	26-Sep-17	13:12:18
22 170926M1_26	1701222-02 VAS-RI17-B23 (105-107FT) 0.125	26-Sep-17	13:23:04
23 170926M1_27	1701222-04 VAS-RI17-B22 (111-113FT) 0.125	26-Sep-17	13:33:42
24 170926M1_28	1701222-05 VAS-RI17-B22 (111-113FT) DUP ...	26-Sep-17	13:44:29
25 170926M1_29	1701267-01 Lodge Sink 0.125	26-Sep-17	13:55:07
26 170926M1_30	1701270-01 Anchorage (420-126505-1) 0.125	26-Sep-17	14:05:46
27 170926M1_31	1701270-02 Field Blank (PFAS) (420-126505-...	26-Sep-17	14:17:06
28 170926M1_32	1701279-01 GR-OF-20170918 0.125	26-Sep-17	14:28:46
29 170926M1_33	1701279-02 MH-117N-20170918 0.125	26-Sep-17	14:40:21
30 170926M1_34	1701279-03 MH-117T-20170918 0.125	26-Sep-17	14:51:00
31 170926M1_35	1701279-04 MH-118.5N-20170918 0.125	26-Sep-17	15:01:50

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

Printed: Wednesday, September 27, 2017 13:11:37 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170926M1_36	1701279-05 MH-118.5T-20170918 0.125	26-Sep-17	15:12:33
33	170926M1_37	IPA	26-Sep-17	15:23:12
34	170926M1_38	ST170926M1-11 PFC CS3 1712509	26-Sep-17	15:33:50
35	170926M1_39	IPA	26-Sep-17	15:44:29
36	170926M1_40	1701279-06 MH-121.5N-20170918 0.125	26-Sep-17	15:55:18
37	170926M1_41	1701279-07 MH-121.5T-20170918 0.125	26-Sep-17	16:06:02
38	170926M1_42	1701279-08 WEST DITCH IN-20170918 0.125	26-Sep-17	16:17:01
39	170926M1_43	1701279-09 DUP01-20170918 0.125	26-Sep-17	16:28:13
40	170926M1_44	1701279-10 MH-140-BOTTOM 0.125	26-Sep-17	16:38:53
41	170926M1_45	1701279-11 MH-140N-20170918 0.125	26-Sep-17	16:49:38
42	170926M1_46	1701279-12 INTERCEPTOR SUMP-2017091...	26-Sep-17	17:00:16
43	170926M1_47	1701279-13 DUP03-20170918 0.125	26-Sep-17	17:10:55
44	170926M1_48	1701279-14 ROOF DRAIN-20170918 0.125	26-Sep-17	17:21:33
45	170926M1_49	1701279-15 SPRING-20170918 0.125	26-Sep-17	17:32:11
46	170926M1_50	1701279-16 FRB01-20170918 0.125	26-Sep-17	17:42:58
47	170926M1_51	IPA	26-Sep-17	17:53:36
48	170926M1_52	ST170926M1-12 PFC CS3 1712509	26-Sep-17	18:04:15
49	170926M1_53	IPA	26-Sep-17	18:15:01
50	170926M1_54	B7I0111-BS1 OPR 1	26-Sep-17	18:25:43
51	170926M1_55	B7I0127-BS1 OPR 0.125	26-Sep-17	18:36:27
52	170926M1_56	B7I0128-BS1 OPR 0.125	26-Sep-17	18:47:14
53	170926M1_57	IPA	26-Sep-17	18:58:00
54	170926M1_58	B7I0111-BLK1 Method Blank 1	26-Sep-17	19:08:39
55	170926M1_59	B7I0124-BLK1 Method Blank 1	26-Sep-17	19:19:25
56	170926M1_60	B7I0127-BLK1 Method Blank 0.125	26-Sep-17	19:30:03
57	170926M1_61	B7I0128-BLK1 Method Blank 0.125	26-Sep-17	19:40:50
58	170926M1_62	B7I0127-MS1 Matrix Spike 0.1161	26-Sep-17	19:51:36
59	170926M1_63	B7I0127-MSD1 Matrix Spike Dup 0.11565	26-Sep-17	20:02:24
60	170926M1_64	B7I0128-MS1 Matrix Spike 0.125	26-Sep-17	20:13:10
61	170926M1_65	B7I0128-MSD1 Matrix Spike Dup 0.125	26-Sep-17	20:23:56
62	170926M1_66	1701187-01 GB-1 1	26-Sep-17	20:34:34
63	170926M1_67	B7I0124-BS1 OPR 1	26-Sep-17	20:45:13
64	170926M1_68	B7I0124-BS2 OPR 1	26-Sep-17	20:55:51
65	170926M1_69	B7I0124-BS3 OPR 1	26-Sep-17	21:06:30

Dataset: Untitled

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	170926M1_70	B710124-BS4 OPR 1	26-Sep-17	21:17:08
67	170926M1_71	1701265-35 GW-MW-8 0.11389	26-Sep-17	21:27:47
68	170926M1_72	1701265-36 DW-R-21SMW-DUP 0.11685	26-Sep-17	21:38:33
69	170926M1_73	1701265-37 DW-R-415BHR 0.11532	26-Sep-17	21:49:12
70	170926M1_74	1701265-38 GW-EB-WATER LEVEL 0.11063	26-Sep-17	21:59:58
71	170926M1_75	1701265-39 GW-FPC-5B 0.10809	26-Sep-17	22:10:44
72	170926M1_76	IPA	26-Sep-17	22:21:23
73	170926M1_77	ST170926M1-13 PFC CS0 17I2506	26-Sep-17	22:32:09
74	170926M1_78	IPA	26-Sep-17	22:42:56
75	170926M1_79	1701265-40 FB-DI-WATER 0.11434	26-Sep-17	22:53:34
76	170926M1_80	1701265-41 DW-EB-APPARTUS 0.11679	26-Sep-17	23:04:20
77	170926M1_81	1701265-42 DW-R-9BFL 0.11363	26-Sep-17	23:14:59
78	170926M1_82	1701265-43 GW-AE-3B 0.11207	26-Sep-17	23:25:55
79	170926M1_83	1701265-49 DW-R-25FW 0.11237	26-Sep-17	23:36:43
80	170926M1_84	1701265-50 GW-FPC-3A 0.11653	26-Sep-17	23:47:30
81	170926M1_85	1701265-51 GW-FPC-11B 0.11147	26-Sep-17	23:58:08
82	170926M1_86	1701265-52 GW-GZ-105 0.11455	27-Sep-17	00:08:47
83	170926M1_87	1701265-53 GW-GZ-105-DUP 0.11181	27-Sep-17	00:19:25
84	170926M1_88	1701265-54 GW-FPC-3C 0.11716	27-Sep-17	00:30:03
85	170926M1_89	1701265-55 GW-FPC-11A 0.10712	27-Sep-17	00:40:48
86	170926M1_90	1701265-56 GW-FPC-3B 0.11821	27-Sep-17	00:51:43
87	170926M1_91	IPA	27-Sep-17	01:02:33
88	170926M1_92	ST170926M1-14 PFC CS3 17I2610	27-Sep-17	01:13:11
89	170926M1_93	IPA	27-Sep-17	01:23:58
90	170926M1_94	1701265-57 DW-R-178ALR 0.1168	27-Sep-17	01:34:44
91	170926M1_95	1701265-58 S-EB-SEDIMENT 0.10956	27-Sep-17	01:45:23
92	170926M1_96	1701265-59 GW-FPC-9A 0.11173	27-Sep-17	01:56:09
93	170926M1_97	1701265-60 SW-SW-5 0.125	27-Sep-17	02:06:47
94	170926M1_98	1701265-61 SW-SW-5-DUP 0.125	27-Sep-17	02:17:26
95	170926M1_99	1701265-62 GW-GZ-117 0.125	27-Sep-17	02:28:08
96	170926M1_100	1701265-63 GW-AE-2A 0.125	27-Sep-17	02:39:02
97	170926M1_101	1701265-64 GW-GZ-109 0.125	27-Sep-17	02:49:40
98	170926M1_102	1701265-65 DW-R-4ROD 0.125	27-Sep-17	03:00:27
99	170926M1_103	1701265-66 SW-SW-111 0.125	27-Sep-17	03:11:13

Dataset: Untitled

Last Altered: Wednesday, September 27, 2017 12:35:42 Pacific Daylight Time

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Compound name: PFBA

Name	ID	Acq.Date	Acq.Time
100	170926M1_104	1701265-67 GW-FPC-9B 0.125	27-Sep-17 03:21:52
101	170926M1_105	IPA	27-Sep-17 03:32:30
102	170926M1_106	ST170926M1-15 PFC CS3 17I2610	27-Sep-17 03:43:09
103	170926M1_107	IPA	27-Sep-17 03:53:55
104	170926M1_108	1701265-68 DW-R-9SMW 0.125	27-Sep-17 04:04:33
105	170926M1_109	1701265-69 GW-MW-9 0.125	27-Sep-17 04:15:21
106	170926M1_110	1701265-70 GW-AE-1B 0.125	27-Sep-17 04:26:25
107	170926M1_111	1701265-71 GW-AE-2B 0.125	27-Sep-17 04:37:21
108	170926M1_112	1701265-72 GW-MW-5D 0.125	27-Sep-17 04:48:12
109	170926M1_113	1701265-73 GW-MW-10 0.125	27-Sep-17 04:59:03
110	170926M1_114	1701265-74 GW-MW-4 0.125	27-Sep-17 05:09:49
111	170926M1_115	1701265-75 GW-MW-4 DUP 0.125	27-Sep-17 05:20:27
112	170926M1_116	1701265-76 DW-R-16SMW 0.125	27-Sep-17 05:31:06
113	170926M1_117	1701265-77 SW-SW-103 0.125	27-Sep-17 05:41:52
114	170926M1_118	IPA	27-Sep-17 05:52:30
115	170926M1_119	ST170926M1-16 PFC CS3 17I2610	27-Sep-17 06:03:17
116	170926M1_120	IPA	27-Sep-17 06:14:03
117	170926M1_121	1701265-78 GW-AE-1A 0.125	27-Sep-17 06:24:42
118	170926M1_122	1701265-82 DW-R-339BHR 0.125	27-Sep-17 06:35:20
119	170926M1_123	Kyle tester 17I2632	27-Sep-17 06:45:58
120	170926M1_124	IPA	27-Sep-17 06:56:45
121	170926M1_125	ST170926M1-17 PFC CS3 17I2610	27-Sep-17 07:07:23
122	170926M1_126	IPA	27-Sep-17 07:18:10

Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:26:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.39e4	1.56e4		1.27	1.27	11.1	9.80	98.0
2	2 PFPeA	263.1 > 219.1	2.52e4	2.97e4		2.46	2.51	10.6	10.1	101.1
3	3 PFBS	299.1 > 79.9	6.21e3	7.35e3		2.76	2.79	10.6	10.2	101.9
4	4 PFHxA	313.2 > 268.9	4.86e4	1.52e4		3.04	3.07	15.9	9.96	99.6
5	5 PFHpA	363.1 > 319.1	7.44e4	8.91e4		3.33	3.36	10.4	10.5	105.4
6	6 L-PFHxS	399.0 > 80.0	9.72e3	5.62e3		3.41	3.43	21.6	9.04	90.4
7	8 6:2 FTS	427.1 > 407	6.50e3	6.77e3		3.54	3.56	12.0	9.95	99.5
8	9 L-PFOA	413 > 368.7	6.20e4	7.28e4		3.54	3.57	10.7	10.2	102.4
9	11 PFHpS	449 > 79.9	1.04e4	7.28e4		3.60	3.63	1.79	9.89	98.9
10	12 PFNA	463.1 > 419.1	6.52e4	6.94e4		3.72	3.75	11.7	10.5	104.9
11	13 PFOSA	498.1 > 77.8	3.01e4	3.68e4		4.75	4.76	10.2	9.52	95.2
12	14 L-PFOS	499 > 79.9	1.22e4	1.34e4		3.77	3.80	11.4	9.85	98.5
13	16 PFDA	513 > 468.8	7.05e4	6.30e4		3.89	3.91	14.0	9.91	99.1
14	17 8:2 FTS	527 > 506.9	7.22e3	5.98e3		3.88	3.91	15.1	9.99	99.9
15	18 N-MeFOSAA	570.1 > 419	8.25e3	6.18e3		3.92	3.95	217	10.3	103.0
16	19 N-EtFOSAA	584.2 > 419	6.87e3	7.27e3		3.99	4.03	154	9.26	92.6
17	20 PFUnA	562.9 > 518.9	3.49e4	7.63e4		4.04	4.07	5.72	9.64	96.4
18	21 PFDS	598.9 > 80	1.09e4	7.63e4		4.08	4.11	1.79	9.17	91.7
19	22 PFDoA	613.0 > 569.1	7.18e4	7.51e4		4.19	4.22	11.9	9.85	98.5
20	24 PFTrDA	662.9 > 618.9	4.53e4	7.51e4		4.34	4.37	7.53	10.7	106.6
21	25 PFTeDA	712.9 > 668.8	2.50e4	2.60e4		4.49	4.53	12.0	10.7	106.9
22	26 N-EtFOSA	526.1 > 168.9	4.98e4	1.53e5		5.73	5.74	48.9	53.3	106.7
23	27 PFHxDA	812.8 > 768.9	5.24e4	1.74e4		4.83	4.88	15.0	9.77	97.7
24	28 PFODA	912.8 > 868.8	4.02e4	1.74e4		5.18	5.22	11.5	11.0	110.2
25	29 N-MeFOSE	616.1 > 58.9	1.22e5	3.37e5		5.43	5.44	54.4	53.7	107.5
26	30 N-EtFOSE	630.1 > 58.9	1.28e5	3.15e5		5.60	5.62	61.0	52.0	104.1
27	31 13C3-PFBA	216.1 > 172.1	1.56e4	1.74e4	0.860	1.27	1.28	11.2	13.0	104.2
28	32 13C3-PFPeA	266.1 > 222.1	2.97e4	5.32e4	0.227	2.46	2.52	2.79	12.3	98.2
29	33 13C3-PFBS	302.1 > 79.9	7.35e3	5.32e4	0.056	2.76	2.79	0.691	12.4	99.0
30	34 13C2-PFHxA	315 > 269.8	1.52e4	5.32e4	0.279	3.04	3.07	1.43	5.14	102.8
31	35 13C4-PFHpA	367 > 322.1	8.91e4	5.32e4	0.719	3.33	3.36	8.37	11.7	93.2
32	36 18O2-PFHxS	403 > 103.0	5.62e3	1.16e4	0.477	3.41	3.43	6.07	12.7	101.8

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9/29/17
✓ per 9/29/17

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:26:02 Pacific Daylight Time

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37 13C2-6:2 FTS	429.1 > 408.9	6.77e3	6.16e4	0.129	3.54	3.56	1.37	10.6	85.0
34	38 13C2-PFOA	414.9 > 369.7	7.28e4	6.16e4	1.167	3.54	3.57	14.8	12.7	101.3
35	39 13C5-PFNA	468.1 > 423.1	6.94e4	8.17e4	0.856	3.72	3.75	10.6	12.4	99.2
36	40 13C8-PFOA	506.1 > 78.0	3.68e4	7.93e4	0.467	4.75	4.76	5.80	12.4	99.4
37	41 13C8-PFOS	507 > 79.9	1.34e4	1.43e4	0.983	3.77	3.80	11.7	11.9	95.5
38	42 13C2-PFDA	515.1 > 469.9	6.30e4	6.97e4	0.859	3.89	3.91	11.3	13.1	105.2
39	43 13C2-8:2 FTS	529.1 > 508.7	5.98e3	6.97e4	0.091	3.88	3.91	1.07	11.7	93.8
40	44 d3-N-MeFOSAA	573.3 > 419	6.18e3	7.93e4	0.007	3.92	3.95	0.973	149	91.9
41	45 d5-N-EtFOSAA	589.3 > 419	7.27e3	7.93e4	0.007	3.99	4.02	1.14	161	99.0
42	46 13C2-PFUnA	565 > 519.8	7.63e4	7.93e4	0.938	4.04	4.07	12.0	12.8	102.5
43	47 13C2-PFDoA	615.1 > 570.1	7.51e4	7.93e4	0.966	4.19	4.22	11.8	12.3	98.0

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-51.qld

Last Altered: Friday, September 29, 2017 11:25:37 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:26:07 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_51, Date: 29-Sep-2017, Time: 02:39:49, ID: ST170928M3-12 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.60e4	7.93e4	0.362	4.49	4.53	4.10	11.3	90.5
2	50 d5-N-ETFOSA	531.1 > 168.9	1.53e5	7.93e4	0.169	5.73	5.73	24.1	142	94.9
3	51 13C2-PFHxDA	815 > 769.7	1.74e4	7.93e4	0.596	4.83	4.88	2.74	4.61	92.1
4	52 d7-N-MeFOSE	623.1 > 58.9	3.37e5	7.93e4	0.379	5.43	5.43	53.1	140	93.3
5	53 d9-N-EtFOSE	639.2 > 58.8	3.15e5	7.93e4	0.351	5.60	5.60	49.7	141	94.3
6	54 13C4-PFBA	217.1 > 172.1	1.74e4	1.74e4	1.000	1.27	1.27	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	5.32e4	5.32e4	1.000	3.04	3.07	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	1.16e4	1.16e4	1.000	3.41	3.43	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	6.16e4	6.16e4	1.000	3.54	3.57	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	8.17e4	8.17e4	1.000	3.72	3.75	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.43e4	1.43e4	1.000	3.77	3.80	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	6.97e4	6.97e4	1.000	3.89	3.91	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	7.93e4	7.93e4	1.000	4.04	4.07	12.5	12.5	100.0

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

Last Altered: Friday, September 29, 2017 11:28:32 Pacific Daylight Time
Printed: Friday, September 29, 2017 11:30:03 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 1712811, Description: PFC CS0 1712811

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.67e3	1.78e4		1.27	1.26	1.18	1.00	100.2
2	2 PFPeA	263.1 > 219.1	2.88e3	3.33e4		2.46	2.50	1.08	0.998	99.8
3	3 PFBS	299.1 > 79.9	6.28e2	7.69e3		2.76	2.79	1.02	0.954	95.4
4	4 PFHxA	313.2 > 268.9	6.21e3	1.76e4		3.04	3.06	1.76	0.986	98.6
5	5 PFHpA	363.1 > 319.1	9.10e3	9.94e4		3.33	3.35	1.14	1.06	105.8
6	6 L-PFHxS	399.0 > 80.0	1.23e3	6.21e3		3.41	3.43	2.48	1.01	100.6
7	8 6:2 FTS	427.1 > 407	9.98e2	8.12e3		3.54	3.55	1.54	1.29	129.3
8	9 L-PFOA	413 > 368.7	8.72e3	7.82e4		3.54	3.56	1.39	1.08	108.4
9	11 PFHpS	449 > 79.9	1.12e3	7.82e4		3.60	3.62	0.178	0.982	98.2
10	12 PFNA	463.1 > 419.1	7.35e3	7.56e4		3.72	3.74	1.21	1.03	103.0
11	13 PFOSA	498.1 > 77.8	3.46e3	3.76e4		4.75	4.76	1.15	0.999	99.9
12	14 L-PFOS	499 > 79.9	1.40e3	1.39e4		3.77	3.79	1.26	1.10	110.1
13	16 PFDA	513 > 468.8	8.21e3	6.57e4		3.89	3.91	1.56	1.02	102.4
14	17 8:2 FTS	527 > 506.9	7.53e2	6.24e3		3.88	3.90	1.51	0.966	96.6
15	18 N-MeFOSAA	570.1 > 419	8.44e2	6.89e3		3.92	3.95	19.9	0.876	87.6
16	19 N-EtFOSAA	584.2 > 419	6.91e2	7.76e3		3.99	4.02	14.5	0.918	91.8
17	20 PFUnA	562.9 > 518.9	4.24e3	7.95e4		4.04	4.07	0.667	1.08	107.8
18	21 PFDS	598.9 > 80	1.17e3	7.95e4		4.08	4.10	0.185	0.944	94.4
19	22 PFDoA	613.0 > 569.1	7.89e3	7.86e4		4.19	4.21	1.25	0.967	96.7
20	24 PFTTrDA	662.9 > 618.9	4.95e3	7.86e4		4.34	4.36	0.787	0.998	99.8
21	25 PFTeDA	712.9 > 668.8	2.68e3	2.65e4		4.49	4.52	1.26	1.06	105.6
22	26 N-EtFOSA	526.1 > 168.9	5.44e3	1.65e5		5.73	5.75	4.93	4.93	98.5
23	27 PFHxDA	812.8 > 768.9	5.86e3	1.75e4		4.83	4.87	1.68	0.983	98.3
24	28 PFODA	912.8 > 868.8	4.21e3	1.75e4		5.18	5.21	1.21	1.03	102.7
25	29 N-MeFOSE	616.1 > 58.9	1.37e4	3.67e5		5.43	5.44	5.62	5.07	101.5
26	30 N-EtFOSE	630.1 > 58.9	1.50e4	3.41e5		5.60	5.62	6.58	5.17	103.5
27	31 13C3-PFBA	216.1 > 172.1	1.78e4	2.02e4	0.860	1.27	1.27	11.0	12.8	102.4
28	32 13C3-PFPeA	266.1 > 222.1	3.33e4	6.32e4	0.227	2.46	2.50	2.63	11.6	92.6
29	33 13C3-PFBS	302.1 > 79.9	7.69e3	6.32e4	0.056	2.76	2.78	0.608	10.9	87.2
30	34 13C2-PFHxA	315 > 269.8	1.76e4	6.32e4	0.279	3.04	3.06	1.39	5.01	100.1
31	35 13C4-PFHpA	367 > 322.1	9.94e4	6.32e4	0.719	3.33	3.35	7.86	10.9	87.5
32	36 18O2-PFHxS	403 > 103.0	6.21e3	1.28e4	0.477	3.41	3.43	6.09	12.8	102.1

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

Last Altered: Friday, September 29, 2017 11:28:32 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:30:03 Pacific Daylight Time

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 1712811, Description: PFC CS0 1712811

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37	13C2-6:2 FTS	429.1 > 408.9	8.12e3	6.87e4	0.129	3.54	3.55	1.48	11.4	91.4
34	38	13C2-PFOA	414.9 > 369.7	7.82e4	6.87e4	1.167	3.54	3.56	14.2	12.2	97.6
35	39	13C5-PFNA	468.1 > 423.1	7.56e4	9.24e4	0.856	3.72	3.74	10.2	11.9	95.6
36	40	13C8-PFOSA	506.1 > 78.0	3.76e4	8.25e4	0.467	4.75	4.76	5.70	12.2	97.8
37	41	13C8-PFOS	507 > 79.9	1.39e4	1.51e4	0.983	3.77	3.79	11.5	11.7	93.9
38	42	13C2-PFDA	515.1 > 469.9	6.57e4	7.28e4	0.859	3.89	3.90	11.3	13.1	105.0
39	43	13C2-8:2 FTS	529.1 > 508.7	6.24e3	7.28e4	0.091	3.88	3.90	1.07	11.7	93.7
40	44	d3-N-MeFOSAA	573.3 > 419	6.89e3	8.25e4	0.007	3.92	3.94	1.04	160	98.6
41	45	d5-N-EtFOSAA	589.3 > 419	7.76e3	8.25e4	0.007	3.99	4.02	1.18	165	101.7
42	46	13C2-PFUnA	565 > 519.8	7.95e4	8.25e4	0.938	4.04	4.06	12.0	12.8	102.7
43	47	13C2-PFDoA	615.1 > 570.1	7.86e4	8.25e4	0.966	4.19	4.21	11.9	12.3	98.7

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-68.qld

Last Altered: Friday, September 29, 2017 11:28:32 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:30:10 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_68, Date: 29-Sep-2017, Time: 05:41:54, ID: ST170928M3-13 PFC CS0 1712811, Description: PFC CS0 1712811

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.65e4	8.25e4	0.362	4.49	4.52	4.02	11.1	88.8
2	50 d5-N-ETFOSA	531.1 > 168.9	1.65e5	8.25e4	0.169	5.73	5.74	25.1	148	98.9
3	51 13C2-PFHxDA	815 > 769.7	1.75e4	8.25e4	0.596	4.83	4.87	2.64	4.44	88.8
4	52 d7-N-MeFOSE	623.1 > 58.9	3.67e5	8.25e4	0.379	5.43	5.43	55.6	146	97.6
5	53 d9-N-EtFOSE	639.2 > 58.8	3.41e5	8.25e4	0.351	5.60	5.60	51.7	147	98.1
6	54 13C4-PFBA	217.1 > 172.1	2.02e4	2.02e4	1.000	1.27	1.26	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	6.32e4	6.32e4	1.000	3.04	3.06	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	1.28e4	1.28e4	1.000	3.41	3.43	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	6.87e4	6.87e4	1.000	3.54	3.56	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	9.24e4	9.24e4	1.000	3.72	3.74	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.51e4	1.51e4	1.000	3.77	3.79	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	7.28e4	7.28e4	1.000	3.89	3.90	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	8.25e4	8.25e4	1.000	4.04	4.06	12.5	12.5	100.0

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:32:58 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 1712814, Description: PFC CS3 1712814

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.54e4	1.77e4		1.27	1.27	10.9	9.60	96.0
2	2 PFPeA	263.1 > 219.1	2.74e4	3.23e4		2.46	2.53	10.6	10.1	100.7
3	3 PFBS	299.1 > 79.9	6.57e3	8.00e3		2.76	2.80	10.3	9.90	99.0
4	4 PFHxA	313.2 > 268.9	5.96e4	1.83e4		3.04	3.07	16.3	10.2	101.9
5	5 PFHpA	363.1 > 319.1	7.61e4	9.47e4		3.33	3.36	10.1	10.2	101.5
6	6 L-PFHxS	399.0 > 80.0	9.74e3	5.34e3		3.41	3.43	22.8	9.53	95.3
7	8 6:2 FTS	427.1 > 407	5.57e3	6.71e3		3.54	3.56	10.4	8.57	85.7
8	9 L-PFOA	413 > 368.7	6.12e4	6.93e4		3.54	3.57	11.0	10.6	106.2
9	11 PFHpS	449 > 79.9	1.06e4	6.93e4		3.60	3.62	1.91	10.5	105.4
10	12 PFNA	463.1 > 419.1	6.70e4	7.23e4		3.72	3.75	11.6	10.3	103.5
11	13 PFOSA	498.1 > 77.8	3.12e4	3.67e4		4.75	4.76	10.6	9.90	99.0
12	14 L-PFOS	499 > 79.9	1.25e4	1.40e4		3.77	3.80	11.1	9.63	96.3
13	16 PFDA	513 > 468.8	7.60e4	6.33e4		3.89	3.91	15.0	10.6	106.5
14	17 8:2 FTS	527 > 506.9	6.95e3	5.91e3		3.88	3.91	14.7	9.72	97.2
15	18 N-MeFOSAA	570.1 > 419	8.60e3	6.33e3		3.92	3.96	221	10.5	104.8
16	19 N-EtFOSAA	584.2 > 419	7.02e3	7.62e3		3.99	4.03	150	9.04	90.4
17	20 PFUnA	562.9 > 518.9	3.68e4	8.05e4		4.04	4.07	5.72	9.64	96.4
18	21 PFDS	598.9 > 80	1.08e4	8.05e4		4.08	4.11	1.68	8.64	86.4
19	22 PFDoA	613.0 > 569.1	7.32e4	8.02e4		4.19	4.22	11.4	9.41	94.1
20	24 PFTrDA	662.9 > 618.9	4.81e4	8.02e4		4.34	4.37	7.50	10.6	106.1
21	25 PFTeDA	712.9 > 668.8	2.55e4	2.66e4		4.49	4.53	12.0	10.6	106.4
22	26 N-EtFOSA	526.1 > 168.9	5.03e4	1.57e5		5.73	5.74	48.1	52.4	104.9
23	27 PFHxDA	812.8 > 768.9	5.49e4	1.84e4		4.83	4.88	15.0	9.71	97.1
24	28 PFODA	912.8 > 868.8	4.05e4	1.84e4		5.18	5.23	11.0	10.5	105.4
25	29 N-MeFOSE	616.1 > 58.9	1.24e5	3.47e5		5.43	5.44	53.4	52.8	105.5
26	30 N-EtFOSE	630.1 > 58.9	1.32e5	3.20e5		5.60	5.62	61.9	52.9	105.7
27	31 13C3-PFBA	216.1 > 172.1	1.77e4	2.00e4	0.860	1.27	1.27	11.1	12.9	103.2
28	32 13C3-PFPeA	266.1 > 222.1	3.23e4	6.45e4	0.227	2.46	2.52	2.50	11.0	88.2
29	33 13C3-PFBS	302.1 > 79.9	8.00e3	6.45e4	0.056	2.76	2.79	0.620	11.1	88.9
30	34 13C2-PFHxA	315 > 269.8	1.83e4	6.45e4	0.279	3.04	3.07	1.42	5.08	101.6
31	35 13C4-PFHpA	367 > 322.1	9.47e4	6.45e4	0.719	3.33	3.36	7.34	10.2	81.7
32	36 18O2-PFHxS	403 > 103.0	5.34e3	1.15e4	0.477	3.41	3.43	5.80	12.2	97.4

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:32:58 Pacific Daylight Time

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 17I2814, Description: PFC CS3 17I2814

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37 13C2-6:2 FTS	429.1 > 408.9	6.71e3	6.34e4	0.129	3.54	3.56	1.32	10.2	81.8
34	38 13C2-PFOA	414.9 > 369.7	6.93e4	6.34e4	1.167	3.54	3.57	13.7	11.7	93.6
35	39 13C5-PFNA	468.1 > 423.1	7.23e4	8.53e4	0.856	3.72	3.75	10.6	12.4	99.0
36	40 13C8-PFOSA	506.1 > 78.0	3.67e4	8.17e4	0.467	4.75	4.76	5.62	12.0	96.3
37	41 13C8-PFOS	507 > 79.9	1.40e4	1.37e4	0.983	3.77	3.80	12.8	13.0	104.1
38	42 13C2-PFDA	515.1 > 469.9	6.33e4	6.99e4	0.859	3.89	3.91	11.3	13.2	105.3
39	43 13C2-8:2 FTS	529.1 > 508.7	5.91e3	6.99e4	0.091	3.88	3.91	1.06	11.6	92.4
40	44 d3-N-MeFOSAA	573.3 > 419	6.33e3	8.17e4	0.007	3.92	3.95	0.969	149	91.5
41	45 d5-N-EtFOSAA	589.3 > 419	7.62e3	8.17e4	0.007	3.99	4.02	1.17	164	100.7
42	46 13C2-PFUnA	565 > 519.8	8.05e4	8.17e4	0.938	4.04	4.07	12.3	13.1	105.0
43	47 13C2-PFDaA	615.1 > 570.1	8.02e4	8.17e4	0.966	4.19	4.22	12.3	12.7	101.6

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-88.qld

Last Altered: Friday, September 29, 2017 11:32:38 Pacific Daylight Time

Printed: Friday, September 29, 2017 11:33:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_88, Date: 29-Sep-2017, Time: 09:16:19, ID: ST170928M3-14 PFC CS3 1712814, Description: PFC CS3 1712814

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.66e4	8.17e4	0.362	4.49	4.53	4.07	11.2	89.8
2	50 d5-N-ETFOSA	531.1 > 168.9	1.57e5	8.17e4	0.169	5.73	5.73	24.0	142	94.7
3	51 13C2-PFHxDA	815 > 769.7	1.84e4	8.17e4	0.596	4.83	4.88	2.81	4.71	94.3
4	52 d7-N-MeFOSE	623.1 > 58.9	3.47e5	8.17e4	0.379	5.43	5.43	53.1	140	93.4
5	53 d9-N-EtFOSE	639.2 > 58.8	3.20e5	8.17e4	0.351	5.60	5.60	49.0	139	93.0
6	54 13C4-PFBA	217.1 > 172.1	2.00e4	2.00e4	1.000	1.27	1.27	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	6.45e4	6.45e4	1.000	3.04	3.07	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	1.15e4	1.15e4	1.000	3.41	3.43	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	6.34e4	6.34e4	1.000	3.54	3.57	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	8.53e4	8.53e4	1.000	3.72	3.75	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.37e4	1.37e4	1.000	3.77	3.80	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	6.99e4	6.99e4	1.000	3.89	3.91	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	8.17e4	8.17e4	1.000	4.04	4.07	12.5	12.5	100.0

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Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928M3_1	IPA	28-Sep-17	17:43:51
2	170928M3_2	ST170928M3-1 PFC CS-2 17I2809	28-Sep-17	17:54:38
3	170928M3_3	ST170928M3-2 PFC CS-1 17I2810	28-Sep-17	18:05:24
4	170928M3_4	ST170928M3-3 PFC CS0 17I2811	28-Sep-17	18:16:11
5	170928M3_5	ST170928M3-4 PFC CS1 17I2812	28-Sep-17	18:26:58
6	170928M3_6	ST170928M3-5 PFC CS2 17I2813	28-Sep-17	18:37:36
7	170928M3_7	ST170928M3-6 PFC CS3 17I2814	28-Sep-17	18:48:22
8	170928M3_8	ST170928M3-7 PFC CS4 17I2815	28-Sep-17	18:59:01
9	170928M3_9	ST170928M3-8 PFC CS5 17I2816	28-Sep-17	19:09:47
10	170928M3_10	ST170928M3-9 PFC CS6 17I2817	28-Sep-17	19:20:33
11	170928M3_11	ST170928M3-10 PFC CS7 17I2818	28-Sep-17	19:31:12
12	170928M3_12	IPA	28-Sep-17	19:41:51
13	170928M3_13	ICV170928M3-1 PFC ICV 17I2808	28-Sep-17	19:52:37
14	170928M3_14	B7I0135-BS1 OPR 0.25	28-Sep-17	20:03:15
15	170928M3_15	B7I0136-BS1 OPR 0.125	28-Sep-17	20:13:54
16	170928M3_16	IPA	28-Sep-17	20:24:40
17	170928M3_17	B7I0125-BLK1 Method Blank 1	28-Sep-17	20:35:18
18	170928M3_18	B7I0135-BLK1 Method Blank 0.25	28-Sep-17	20:45:58
19	170928M3_19	B7I0136-BLK1 Method Blank 0.125	28-Sep-17	20:56:55
20	170928M3_20	B7I0125-BS2 OPR 1	28-Sep-17	21:07:41
21	170928M3_21	B7I0125-BS3 OPR 1	28-Sep-17	21:18:20
22	170928M3_22	B7I0125-BS4 OPR 1	28-Sep-17	21:29:06
23	170928M3_23	B7I0125-BS5 OPR 1	28-Sep-17	21:39:45
24	170928M3_24	IPA	28-Sep-17	21:50:23
25	170928M3_25	1701293-01 LORNG-SW18001-091817 0.10707	28-Sep-17	22:01:09
26	170928M3_26	1701293-02 LORNG-SWDR001-091817 0.114...	28-Sep-17	22:11:48
27	170928M3_27	1701293-03 LORNG-SWDR002-091817 0.115...	28-Sep-17	22:22:34
28	170928M3_28	1701293-04 LORNG-SWNP001-091817 0.114...	28-Sep-17	22:33:12
29	170928M3_29	1701300-01 RI17-MW-3 (2-7)-091917 0.25556	28-Sep-17	22:43:59
30	170928M3_30	1701300-02 RI17-MW-3 (16-17)-091917 0.256...	28-Sep-17	22:54:38
31	170928M3_31	1701300-03 RI17-MW-3 (26-27)-091917 0.2598	28-Sep-17	23:05:24
32	170928M3_32	1701300-04 RI17-MW-3 (36-37)-091917 0.251...	28-Sep-17	23:16:11

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time
 Printed: Friday, September 29, 2017 15:11:48 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
33	170928M3_33	1701300-05 RI17-MW-3 (46-47)-091917 0.260...	28-Sep-17	23:26:57
34	170928M3_34	1701300-06 RI17-MW-4 (5-10)-091917 0.25114	28-Sep-17	23:37:38
35	170928M3_35	IPA	28-Sep-17	23:48:23
36	170928M3_36	ST170928M3-11 PFC CS3 17I2814	28-Sep-17	23:59:09
37	170928M3_37	IPA	29-Sep-17	00:09:47
38	170928M3_38	1701300-07 RI17-MW-4 (19-20)-091917 0.249...	29-Sep-17	00:20:25
39	170928M3_39	1701300-08 RI17-MW-4 (29-30)-091917 0.253...	29-Sep-17	00:31:12
40	170928M3_40	1701300-09 RI17-MW-4 (39-40)-091917 0.254...	29-Sep-17	00:41:54
41	170928M3_41	1701300-10 RI17-MW-4 (49-50)-091917 0.26	29-Sep-17	00:52:42
42	170928M3_42	1701294-01 RI17-DISTH2O-MW-1-091817 0.1...	29-Sep-17	01:03:23
43	170928M3_43	1701294-02 RI17-FRB-MW-1-091817 0.125	29-Sep-17	01:14:10
44	170928M3_44	1701294-03 RI17-5006-MW-1-091817 0.125	29-Sep-17	01:24:56
45	170928M3_45	1701294-04 RI17-5171-MW-1-091817 0.125	29-Sep-17	01:35:43
46	170928M3_46	1701294-05 RI17-EB-MW-1-091817 0.125	29-Sep-17	01:46:29
47	170928M3_47	1701294-06 RI17-MW-1(3-8)-091817 0.125	29-Sep-17	01:57:07
48	170928M3_48	1701294-07 RI17-MW-1(3-8)-091817 Dup 0.125	29-Sep-17	02:07:54
49	170928M3_49	1701294-08 RI17-MW-1(17-18)-091917 0.125	29-Sep-17	02:18:33
50	170928M3_50	IPA	29-Sep-17	02:29:11
51	170928M3_51	ST170928M3-12 PFC CS3 17I2814	29-Sep-17	02:39:49
52	170928M3_52	IPA	29-Sep-17	02:50:28
53	170928M3_53	1701294-09 RI17-MW-2(2-7)-091917 0.125	29-Sep-17	03:01:14
54	170928M3_54	1701294-10 RI17-MW-2(12-13)-091917 0.125	29-Sep-17	03:11:52
55	170928M3_55	1701294-11 RI17-MW-2(17-18)-091917 0.125	29-Sep-17	03:22:39
56	170928M3_56	1701294-12 VAS-RI17-B21(108-110FT) 0.125	29-Sep-17	03:33:17
57	170928M3_57	1701294-13 VAS-RI17-B21(69-71FT) 0.125	29-Sep-17	03:44:04
58	170928M3_58	1701294-14 VAS-RI17-B21(61-63FT) 0.125	29-Sep-17	03:54:42
59	170928M3_59	1701294-15 VAS-RI17-B21(61-63FT) Dup 0.125	29-Sep-17	04:05:21
60	170928M3_60	1701294-16 Pond 1-2 @ Dam PD 0.125	29-Sep-17	04:16:11
61	170928M3_61	1701294-17 SW-VEL L4 0.125	29-Sep-17	04:26:53
62	170928M3_62	B7I0026-BS3	29-Sep-17	04:37:40
63	170928M3_63	B7I0026-BS4	29-Sep-17	04:48:18
64	170928M3_64	B7I0026-BS5	29-Sep-17	04:59:05
65	170928M3_65	IPA	29-Sep-17	05:09:51
66	170928M3_66	1701279-03 MH-117T-20170918 0.125	29-Sep-17	05:20:30
67	170928M3_67	IPA	29-Sep-17	05:31:16
68	170928M3_68	ST170928M3-13 PFC CS0 17I2811	29-Sep-17	05:41:54

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time
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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
69	170928M3_69	IPA	29-Sep-17	05:52:41
70	170928M3_70	1701279-11 MH-140N-20170918 0.125	29-Sep-17	06:03:19
71	170928M3_71	1701279-12 INTERCEPTOR SUMP-2017091...	29-Sep-17	06:13:58
72	170928M3_72	1701279-15 SPRING-20170918 0.125	29-Sep-17	06:24:36
73	170928M3_73	IPA	29-Sep-17	06:35:15
74	170928M3_74	MB TESTER	29-Sep-17	06:46:01
75	170928M3_75	B7I0137-BS1 OPR 0.25	29-Sep-17	06:56:48
76	170928M3_76	B7I0142-BS1 OPR 1	29-Sep-17	07:07:51
77	170928M3_77	IPA	29-Sep-17	07:18:37
78	170928M3_78	B7I0137-BLK1 Method Blank 0.25	29-Sep-17	07:29:23
79	170928M3_79	B7I0142-BLK1 Method Blank 1	29-Sep-17	07:40:09
80	170928M3_80	1701301-01 RI17-MW-4 (59-60)-091917 0.243...	29-Sep-17	07:50:48
81	170928M3_81	1701301-02 RI17-MW-6 (5-10)-091917 0.24128	29-Sep-17	08:01:26
82	170928M3_82	1701301-03 RI17-MW-8 (3-8)-092017 0.25036	29-Sep-17	08:12:05
83	170928M3_83	1701301-04 RI17-MW-8 (18-19)-092017 0.254...	29-Sep-17	08:22:51
84	170928M3_84	1701301-05 RI17-MW-8 (27.5-28.5)-092017 0....	29-Sep-17	08:33:30
85	170928M3_85	1701301-06 RI17-MW-8 (37-38)-092017 0.251...	29-Sep-17	08:44:16
86	170928M3_86	1701301-07 RI17-FRB-MW-8-092017 0.25277	29-Sep-17	08:54:54
87	170928M3_87	IPA	29-Sep-17	09:05:41
88	170928M3_88	ST170928M3-14 PFC CS3 17I2814	29-Sep-17	09:16:19
89	170928M3_89	IPA	29-Sep-17	09:27:05
90	170928M3_90	1701301-08 RI17-MW-6 (20-21)-092017 0.2177	29-Sep-17	09:38:54
91	170928M3_91	1701301-09 RI17-MW-6 (30-31)-092017 0.253...	29-Sep-17	09:50:09
92	170928M3_92	1701301-10 RI17-MW-6 (40-41)-092017 0.252...	29-Sep-17	10:00:47
93	170928M3_93	1701301-11 RI17-MW-6 (50-51)-092017 0.249...	29-Sep-17	10:11:34
94	170928M3_94	1701301-12 RI17-MW-29 (2.5-7.5)-092017 0.2...	29-Sep-17	10:22:19
95	170928M3_95	1701301-13 RI17-MW-29 (2.5-7.5)-092017 DU...	29-Sep-17	10:32:58
96	170928M3_96	1701301-14 RI17-MW-29 (12.5-13.5)-092017 ...	29-Sep-17	10:43:45
97	170928M3_97	1701301-15 RI17-MW-29 (24-25)-092017 0.26...	29-Sep-17	10:54:31
98	170928M3_98	1701301-16 RI17-MW-29 (31-32)-092017 0.25...	29-Sep-17	11:05:17
99	170928M3_99	1701305-01 908 0.11854	29-Sep-17	11:16:04
100	170928M3_100	IPA	29-Sep-17	11:26:42
101	170928M3_101	ST170928M3-15 PFC CS3 17I2814	29-Sep-17	11:37:54
102	170928M3_102	IPA	29-Sep-17	11:49:12
103	170928M3_103	1701305-02 919 0.11781	29-Sep-17	11:59:54
104	170928M3_104	1701305-03 921 0.11352	29-Sep-17	12:10:41

Dataset: Untitled

Last Altered: Friday, September 29, 2017 15:11:14 Pacific Daylight Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
105	170928M3_105	1701278-01 MTBE_6193 0.125	29-Sep-17	12:22:07
106	170928M3_106	1701310-01 NB-101S 0.125	29-Sep-17	12:32:45
107	170928M3_107	1701310-02 NB-102S 0.125	29-Sep-17	12:43:32
108	170928M3_108	1701310-03 NB-105D 0.125	29-Sep-17	12:54:11
109	170928M3_109	1701310-04 DUPLICATE 0.125	29-Sep-17	13:04:49
110	170928M3_110	1701310-05 PFAS FIELD BLANK 0.125	29-Sep-17	13:15:27
111	170928M3_111	1701311-01 MTBE_7214 0.125	29-Sep-17	13:26:14
112	170928M3_112	IPA	29-Sep-17	13:36:53
113	170928M3_113	ST170928M3-16 PFC CS3 17I2814	29-Sep-17	13:47:31
114	170928M3_114	IPA	29-Sep-17	13:58:09

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-40.qld

Last Altered: Friday, September 29, 2017 08:18:38 Pacific Daylight Time
Printed: Friday, September 29, 2017 08:22:52 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_40, Date: 28-Sep-2017, Time: 16:51:16, ID: ST170928G1-10 PFC CS3 1712627, Description: PFC CS3 1712627

#	Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.69	23227.004	31676.273	9.166	12.2	122.3
2	2 PFPeA	263.0 > 218.8	2.64	12267.778	12500.891	12.267	10.0	100.5
3	3 PFBS	299.0 > 79.7	2.92	9570.022	7012.126	17.060	10.2	102.0
4	4 PFHxA	312.9 > 268.9	3.31	17257.230	9558.268	22.568	11.4	114.2
5	5 PFHpA	363 > 318.9	3.82	20560.494	11479.867	22.388	9.5	95.1
6	6 PFHxS	398.9 > 79.6	3.95	8718.465	6302.227	17.292	9.0	90.4
7	7 PFOA	413.0 > 368.7	4.23	16591.680	22671.842	9.148	9.4	94.5
8	8 PFNA	463.0 > 418.8	4.57	15739.640	8595.491	22.889	8.3	83.3
9	9 PFOS	499.0 > 79.9	4.64	2575.316	6107.769	5.271	10.6	105.7
10	10 PFDA	512.7 > 219.0	4.88	1186.384	6793.800	2.183	10.7	106.7
11	11 13C3-PFBA	215.9 > 171.8	1.68	31676.273	28934.334	13.685	10.0	79.7
12	12 13C3-PFBS	302.0 > 98.8	2.92	7012.126	26058.160	3.364	14.3	114.1
13	13 13C3-PFPeA	266.0 > 221.8	2.64	12500.891	26058.160	5.997	12.0	96.3
14	14 13C2-PFHxA	315.0 > 269.8	3.31	9558.268	26058.160	4.585	12.1	96.8
15	15 13C4-PFHpA	367.2 > 321.8	3.82	11479.867	26058.160	5.507	12.3	98.6
16	16 18O2-PFHxS	403 > 102.6	3.94	6302.227	14965.147	5.264	12.1	96.5
17	17 13C2-PFOA	414.9 > 369.7	4.23	22671.842	7963.494	35.587	9.6	76.6
18	18 13C5-PFNA	468.2 > 422.9	4.57	8595.491	9912.228	10.840	12.2	97.9
19	19 13C2-PFDA	514.8 > 469.7	4.88	6793.800	4453.589	19.068	9.9	78.9
20	20 13C8-PFOS	507.0 > 79.9	4.64	6107.769	6085.421	12.546	13.3	106.4
21	21 13C4-PFBA	216.9 > 171.8	1.68	28934.334	28934.334	12.500	12.5	100.0
22	22 13C5-PFHxA	318 > 272.9	3.31	26058.160	26058.160	12.500	12.5	100.0
23	23 13C3-PFHxS	401.9 > 79.9	3.94	14965.147	14965.147	12.500	12.5	100.0
24	24 13C8-PFOA	421.3 > 376	4.23	7963.494	7963.494	12.500	12.5	100.0
25	25 13C9-PFNA	472.2 > 426.9	4.57	9912.228	9912.228	12.500	12.5	100.0
26	26 13C4-PFOS	503.0 > 79.9	4.64	6085.421	6085.421	12.500	12.5	100.0
27	27 13C6-PFDA	519.10 > 473.70	4.88	4453.589	4453.589	12.500	12.5	100.0
28	28 Total PFHxS	398.9 > 79.6		8718.465	6302.227	17.292	9.0	
29	29 Total PFOA	413.0 > 368.7		16599.835	22671.842	9.148	9.4	
30	30 Total PFOS	499.0 > 79.9		2575.316	6107.769	5.271	10.6	

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YDA 9/29/17

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Dataset: Untitled

Last Altered: Friday, September 29, 2017 08:29:51 Pacific Daylight Time
 Printed: Friday, September 29, 2017 08:30:21 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04
 Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928G1_1	IPA	28-Sep-17	08:24:44
2	170928G1_2	ST170928G1-1 PFC CS-2 17I2622	28-Sep-17	08:37:06
3	170928G1_3	ST170928G1-2 PFC CS-1 17I2623	28-Sep-17	08:49:33
4	170928G1_4	ST170928G1-3 PFC CS0 17I2624	28-Sep-17	09:02:05
5	170928G1_5	ST170928G1-4 PFC CS1 17I2625	28-Sep-17	09:14:38
6	170928G1_6	ST170928G1-5 PFC CS2 17I2626	28-Sep-17	09:27:12
7	170928G1_7	ST170928G1-6 PFC CS3 17I2627	28-Sep-17	09:39:45
8	170928G1_8	ST170928G1-7 PFC CS4 17I2628	28-Sep-17	09:52:18
9	170928G1_9	ST170928G1-8 PFC CS5 17I2629	28-Sep-17	10:04:52
10	170928G1_10	ST170928G1-9 PFC CS6 17I2630	28-Sep-17	10:17:33
11	170928G1_11	IPA	28-Sep-17	10:30:00
12	170928G1_12	ICV170928G1-1 PFC ICV 15I2621	28-Sep-17	10:42:35
13	170928G1_13	IPA	28-Sep-17	10:55:07
14	170928G1_14	B7I0026-BLK1 Method Blank 0.125	28-Sep-17	11:07:44
15	170928G1_15	B7I0026-BS2 OPR 0.125	28-Sep-17	11:20:11
16	170928G1_16	B7I0026-BS3 OPR 0.125	28-Sep-17	11:32:44
17	170928G1_17	B7I0026-BS4 OPR 0.125	28-Sep-17	11:45:19
18	170928G1_18	B7I0026-BS5 OPR 0.125	28-Sep-17	11:57:55
19	170928G1_19	IPA	28-Sep-17	12:18:28
20	170928G1_20	B7I0125-BLK1 Method Blank 1	28-Sep-17	12:30:40
21	170928G1_21	B7I0125-BS2 OPR 1	28-Sep-17	12:43:09
22	170928G1_22	B7I0125-BS3 OPR 1	28-Sep-17	12:55:43
23	170928G1_23	B7I0125-BS4 OPR 1	28-Sep-17	13:08:16
24	170928G1_24	B7I0125-BS5 OPR 1	28-Sep-17	13:20:49
25	170928G1_25	IPA	28-Sep-17	13:33:23
26	170928G1_26	B7I0091-BS1 OPR 0.25	28-Sep-17	13:45:56
27	170928G1_27	IPA	28-Sep-17	13:58:32
28	170928G1_28	B7I0091-BLK1 Method Blank 0.25	28-Sep-17	14:11:05
29	170928G1_29	1701167-05RE1 919 0.11385	28-Sep-17	14:23:37
30	170928G1_30	IPA	28-Sep-17	14:36:11
31	170928G1_31	1701279-05 MH-118.5T-20170918 0.125	28-Sep-17	14:48:43

Dataset: Untitled

Last Altered: Friday, September 29, 2017 08:29:51 Pacific Daylight Time

Printed: Friday, September 29, 2017 08:30:21 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170928G1_32	IPA	28-Sep-17	15:01:16
33	170928G1_33	1701279-04@5X MH-118.5N-20170918 0.125	28-Sep-17	15:13:52
34	170928G1_34	IPA	28-Sep-17	15:29:20
35	170928G1_35	B710125-BS2 OPR 1	28-Sep-17	15:41:32
36	170928G1_36	B710125-BS4 OPR 1	28-Sep-17	15:54:05
37	170928G1_37	B710125-BS2 OPR 1		
38	170928G1_38	B710125-BS2 OPR 1	28-Sep-17	16:26:35
39	170928G1_39	IPA	28-Sep-17	16:38:45
40	170928G1_40	ST170928G1-10 PFC CS3 1712627	28-Sep-17	16:51:16
41	170928G1_41	IPA	28-Sep-17	17:03:48

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:10:57 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:10:06

DM
9/26/17

JHA, 9/26/2017

Compound name: PFBA

Coefficient of Determination: R² = 0.999423

Calibration curve: -0.000254075 * x² + 1.17037 * x + -0.00273304

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	1.92	446.522	17613.805	0.317	0.3	9.2	NO	0.999	NO	MM
2	170926M1_7	Standard	0.500	1.88	825.798	18773.246	0.550	0.5	-5.6	NO	0.999	NO	bb
3	170926M1_8	Standard	1.000	1.89	1755.629	18408.828	1.192	1.0	2.1	NO	0.999	NO	bb
4	170926M1_9	Standard	2.000	1.88	3399.516	18209.129	2.334	2.0	-0.1	NO	0.999	NO	bb
5	170926M1_10	Standard	5.000	1.88	8508.786	19320.969	5.505	4.7	-5.8	NO	0.999	NO	MM
6	170926M1_11	Standard	10.000	1.88	17337.701	19283.436	11.239	9.6	-3.7	NO	0.999	NO	MM
7	170926M1_12	Standard	50.000	1.87	88478.898	18174.063	60.855	52.6	5.2	NO	0.999	NO	MM
8	170926M1_13	Standard	100.000	1.88	169634.828	18974.527	111.752	97.6	-2.4	NO	0.999	NO	MM
9	170926M1_14	Standard	250.000	1.88	467043.563	21058.029	277.236	250.5	0.2	NO	0.999	NO	MM

Compound name: PFPeA

Correlation coefficient: r = 0.998532, r² = 0.997067

Calibration curve: 1.05798 * x + 0.0713744

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	2.97	951.400	35981.965	0.331	0.2	-2.0	NO	0.997	NO	bb
2	170926M1_7	Standard	0.500	2.98	1621.787	38140.273	0.532	0.4	-13.0	NO	0.997	NO	bb
3	170926M1_8	Standard	1.000	2.98	3641.451	38553.766	1.181	1.0	4.8	NO	0.997	NO	bb
4	170926M1_9	Standard	2.000	2.98	7015.247	36205.199	2.422	2.2	11.1	NO	0.997	NO	bb
5	170926M1_10	Standard	5.000	2.97	15355.139	38510.066	4.984	4.6	-7.1	NO	0.997	NO	bb
6	170926M1_11	Standard	10.000	2.98	33169.973	39419.648	10.518	9.9	-1.3	NO	0.997	NO	bb
7	170926M1_12	Standard	50.000	2.97	176114.031	36742.273	59.915	56.6	13.1	NO	0.997	NO	bb
8	170926M1_13	Standard	100.000	2.97	316189.938	39387.836	100.345	94.8	-5.2	NO	0.997	NO	bb
9	170926M1_14	Standard	250.000	2.98	785173.938	37255.500	263.442	248.9	-0.4	NO	0.997	NO	bb

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Compound name: PFBS

Correlation coefficient: $r = 0.998931$, $r^2 = 0.997863$

Calibration curve: $1.04858 * x + -0.0324365$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.15	166.861	8097.803	0.258	0.3	10.6	NO	0.998	NO	bb
2	170926M1_7	Standard	0.500	3.17	352.446	9640.106	0.457	0.5	-6.6	NO	0.998	NO	bb
3	170926M1_8	Standard	1.000	3.17	740.502	9446.969	0.980	1.0	-3.5	NO	0.998	NO	bb
4	170926M1_9	Standard	2.000	3.16	1368.680	8694.710	1.968	1.9	-4.6	NO	0.998	NO	bb
5	170926M1_10	Standard	5.000	3.16	3745.490	8763.979	5.342	5.1	2.5	NO	0.998	NO	MM
6	170926M1_11	Standard	10.000	3.15	7056.972	8989.179	9.813	9.4	-6.1	NO	0.998	NO	MM
7	170926M1_12	Standard	50.000	3.15	44617.570	10212.084	54.614	52.1	4.2	NO	0.998	NO	MM
8	170926M1_13	Standard	100.000	3.15	78199.273	8732.539	111.937	106.8	6.8	NO	0.998	NO	MM
9	170926M1_14	Standard	250.000	3.16	164840.359	8130.431	253.431	241.7	-3.3	NO	0.998	NO	MM

Compound name: PFHxA

Correlation coefficient: $r = 0.999092$, $r^2 = 0.998186$

Calibration curve: $1.53706 * x + 0.162682$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.37	1789.725	18439.123	0.485	0.2	-16.0	NO	0.998	NO	MM
2	170926M1_7	Standard	0.500	3.37	3122.690	17749.219	0.880	0.5	-6.7	NO	0.998	NO	MM
3	170926M1_8	Standard	1.000	3.38	6994.330	20067.127	1.743	1.0	2.8	NO	0.998	NO	bb
4	170926M1_9	Standard	2.000	3.37	12891.924	17824.650	3.616	2.2	12.3	NO	0.998	NO	MM
5	170926M1_10	Standard	5.000	3.37	27886.596	18244.521	7.642	4.9	-2.7	NO	0.998	NO	MM
6	170926M1_11	Standard	10.000	3.37	59121.434	18411.217	16.056	10.3	3.4	NO	0.998	NO	MM
7	170926M1_12	Standard	50.000	3.37	293855.625	17227.830	85.285	55.4	10.8	NO	0.998	NO	MM
8	170926M1_13	Standard	100.000	3.37	536308.875	17893.344	149.863	97.4	-2.6	NO	0.998	NO	MM
9	170926M1_14	Standard	250.000	3.38	1322944.250	17428.289	379.539	246.8	-1.3	NO	0.998	NO	MM

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Compound name: PFHpA

Correlation coefficient: $r = 0.999371$, $r^2 = 0.998742$

Calibration curve: $1.02069 * x + 0.0325041$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	3.63	1943.525	85124.656	0.285	0.2	-0.9	NO	0.999	NO	MM
2	2 170926M1_7	Standard	0.500	3.63	3208.322	75745.172	0.529	0.5	-2.6	NO	0.999	NO	MM
3	3 170926M1_8	Standard	1.000	3.63	6652.268	83440.781	0.997	0.9	-5.5	NO	0.999	NO	bb
4	4 170926M1_9	Standard	2.000	3.63	13461.582	73560.961	2.287	2.2	10.5	NO	0.999	NO	bb
5	5 170926M1_10	Standard	5.000	3.63	28926.965	77536.695	4.663	4.5	-9.3	NO	0.999	NO	MM
6	6 170926M1_11	Standard	10.000	3.63	64791.879	78441.781	10.325	10.1	0.8	NO	0.999	NO	MM
7	7 170926M1_12	Standard	50.000	3.63	332237.438	74803.906	55.518	54.4	8.7	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	3.63	605120.438	74141.344	102.021	99.9	-0.1	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	3.63	1909013.250	95039.898	251.081	246.0	-1.6	NO	0.999	NO	MM

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.998525$

Calibration curve: $6.01008e-006 * x^2 + 2.3448 * x + 0.0456733$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	3.71	268.341	4583.046	0.732	0.3	17.1	NO	0.999	NO	bb
2	2 170926M1_7	Standard	0.500	3.71	380.537	5124.452	0.928	0.4	-24.7	NO	0.999	NO	MM
3	3 170926M1_8	Standard	1.000	3.70	914.029	4775.080	2.393	1.0	0.1	NO	0.999	NO	bb
4	4 170926M1_9	Standard	2.000	3.70	1899.311	4586.509	5.176	2.2	9.4	NO	0.999	NO	bb
5	5 170926M1_10	Standard	5.000	3.70	4176.582	4507.254	11.583	4.9	-1.6	NO	0.999	NO	MM
6	6 170926M1_11	Standard	10.000	3.70	8577.047	4747.102	22.585	9.6	-3.9	NO	0.999	NO	MM
7	7 170926M1_12	Standard	50.000	3.70	46026.730	4547.346	126.521	53.9	7.9	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	3.70	84357.867	4715.147	223.635	95.3	-4.7	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	3.70	241915.797	5132.338	589.195	251.1	0.4	NO	0.999	NO	bb

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.997058$

Calibration curve: $-0.00288509 * x^2 + 1.14646 * x + 0.316166$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.82	206.878	8015.970	0.323	0.0	-97.8	NO	0.997	NO	bbX
2	170926M1_7	Standard	0.500	3.84	339.994	8675.122	0.490	0.2	-69.7	NO	0.997	NO	bbX
3	170926M1_8	Standard	1.000	3.83	953.807	8531.048	1.398	0.9	-5.5	NO	0.997	NO	bb
4	170926M1_9	Standard	2.000	3.83	1827.693	7337.573	3.114	2.5	22.8	NO	0.997	NO	bb
5	170926M1_10	Standard	5.000	3.82	3553.160	8707.056	5.101	4.2	-15.6	NO	0.997	NO	MM
6	170926M1_11	Standard	10.000	3.83	7588.144	8593.252	11.038	9.6	-4.2	NO	0.997	NO	MM
7	170926M1_12	Standard	50.000	3.82	39782.629	9559.567	52.019	51.9	3.7	NO	0.997	NO	bb
8	170926M1_13	Standard	100.000	3.83	65340.051	9564.410	85.395	98.7	-1.3	NO	0.997	NO	MM
9	170926M1_14	Standard	250.000	3.82	171721.484	14878.135	144.273			NO	0.997	NO	MMXI

Compound name: L-PFOA

Correlation coefficient: $r = 0.999252$, $r^2 = 0.998504$

Calibration curve: $1.05269 * x + 0.304023$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	170926M1_6	Standard	0.250	3.84	2492.620	57472.527	0.542	0.2	-9.5	NO	0.999	NO	MM
2	170926M1_7	Standard	0.500	3.84	3539.854	55558.078	0.796	0.5	-6.4	NO	0.999	NO	MM
3	170926M1_8	Standard	1.000	3.84	6211.707	53550.098	1.450	1.1	8.9	NO	0.999	NO	bb
4	170926M1_9	Standard	2.000	3.84	11771.767	56503.746	2.604	2.2	9.3	NO	0.999	NO	bb
5	170926M1_10	Standard	5.000	3.84	23081.049	54364.102	5.307	4.8	-4.9	NO	0.999	NO	bb
6	170926M1_11	Standard	10.000	3.84	42978.746	52370.980	10.258	9.5	-5.4	NO	0.999	NO	bb
7	170926M1_12	Standard	50.000	3.83	240418.938	52551.176	57.187	54.0	8.1	NO	0.999	NO	bb
8	170926M1_13	Standard	100.000	3.84	430413.719	49672.285	108.313	102.6	2.6	NO	0.999	NO	bb
9	170926M1_14	Standard	250.000	3.84	1341607.375	65229.695	257.093	243.9	-2.4	NO	0.999	NO	bb

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFHpS

Coefficient of Determination: R² = 0.999390

Calibration curve: $-0.000256301 * x^2 + 0.230781 * x + -0.0174965$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	3.90	216.432	57472.527	0.047	0.3	11.9	NO	0.999	NO	bb
2	2 170926M1_7	Standard	0.500	3.90	371.297	55558.078	0.084	0.4	-12.4	NO	0.999	NO	bb
3	3 170926M1_8	Standard	1.000	3.90	864.579	53550.098	0.202	1.0	-4.9	NO	0.999	NO	bb
4	4 170926M1_9	Standard	2.000	3.90	1715.171	56503.746	0.379	1.7	-13.8	NO	0.999	NO	bb
5	5 170926M1_10	Standard	5.000	3.90	4481.211	54364.102	1.030	4.6	-8.7	NO	0.999	NO	bb
6	6 170926M1_11	Standard	10.000	3.90	9046.645	52370.980	2.159	9.5	-4.7	NO	0.999	NO	bb
7	7 170926M1_12	Standard	50.000	3.90	46042.004	52551.176	10.952	50.3	0.7	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	3.90	82935.227	49672.285	20.871	102.1	2.1	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	3.90	216575.422	65229.695	41.502	248.5	-0.6	NO	0.999	NO	MM

Compound name: PFNA

Correlation coefficient: r = 0.996989, r² = 0.993986

Calibration curve: $1.09665 * x + 0.146809$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.03	1491.298	49863.914	0.374	0.2	-17.2	NO	0.994	NO	MM
2	2 170926M1_7	Standard	0.500	4.03	2714.410	55938.543	0.607	0.4	-16.2	NO	0.994	NO	MM
3	3 170926M1_8	Standard	1.000	4.03	5296.324	52005.914	1.273	1.0	2.7	NO	0.994	NO	bb
4	4 170926M1_9	Standard	2.000	4.03	11233.622	50512.246	2.780	2.4	20.1	NO	0.994	NO	bb
5	5 170926M1_10	Standard	5.000	4.03	24990.338	54176.277	5.766	5.1	2.5	NO	0.994	NO	MM
6	6 170926M1_11	Standard	10.000	4.03	48399.004	57047.996	10.605	9.5	-4.6	NO	0.994	NO	MM
7	7 170926M1_12	Standard	50.000	4.03	233633.266	49287.465	59.253	53.9	7.8	NO	0.994	NO	MM
8	8 170926M1_13	Standard	100.000	4.03	442281.688	45425.496	121.705	110.8	10.8	NO	0.994	NO	MM
9	9 170926M1_14	Standard	250.000	4.03	1267182.750	61351.066	258.183	235.3	-5.9	NO	0.994	NO	MM

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Compound name: PFOSA

Correlation coefficient: $r = 0.997992$, $r^2 = 0.995989$

Calibration curve: $1.11087 * x + -0.00238488$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.03	70.186	7347.348	0.119	0.1	-56.1	NO	0.996	NO	MMX
2	2 170926M1_7	Standard	0.500	4.04	294.767	7905.017	0.466	0.4	-15.7	NO	0.996	NO	bb
3	3 170926M1_8	Standard	1.000	4.04	794.978	7178.021	1.384	1.2	24.8	NO	0.996	NO	bb
4	4 170926M1_9	Standard	2.000	4.04	1375.160	7702.087	2.232	2.0	0.6	NO	0.996	NO	bb
5	5 170926M1_10	Standard	5.000	4.04	3109.106	7920.415	4.907	4.4	-11.6	NO	0.996	NO	MM
6	6 170926M1_11	Standard	10.000	4.03	6839.106	7736.169	11.051	9.9	-0.5	NO	0.996	NO	bb
7	7 170926M1_12	Standard	50.000	4.03	34207.617	7009.465	61.003	54.9	9.8	NO	0.996	NO	MM
8	8 170926M1_13	Standard	100.000	4.03	59035.305	7336.622	100.583	90.5	-9.5	NO	0.996	NO	MM
9	9 170926M1_14	Standard	250.000	4.04	167004.906	7369.899	283.255	255.0	2.0	NO	0.996	NO	MM

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.993324$

Calibration curve: $0.000198828 * x^2 + 1.05686 * x + 0.0813851$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.09	308.570	11549.142	0.334	0.2	-4.4	NO	0.993	NO	MM
2	2 170926M1_7	Standard	0.500	4.08	504.154	10670.576	0.591	0.5	-3.6	NO	0.993	NO	MM
3	3 170926M1_8	Standard	1.000	4.09	1200.406	11627.481	1.290	1.1	14.4	NO	0.993	NO	MM
4	4 170926M1_9	Standard	2.000	4.09	2209.698	12186.089	2.267	2.1	3.3	NO	0.993	NO	MM
5	5 170926M1_10	Standard	5.000	4.09	5243.003	11408.685	5.745	5.4	7.1	NO	0.993	NO	MM
6	6 170926M1_11	Standard	10.000	4.09	10691.173	11386.074	11.737	11.0	10.1	NO	0.993	NO	MM
7	7 170926M1_12	Standard	50.000	4.08	50818.047	10339.790	61.435	57.4	14.9	NO	0.993	NO	MM
8	8 170926M1_13	Standard	100.000	4.09	88930.313	11771.329	94.435	87.8	-12.2	NO	0.993	NO	MM
9	9 170926M1_14	Standard	250.000	4.09	267783.313	11937.639	280.398	253.2	1.3	NO	0.993	NO	MM

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Compound name: PFDA

Correlation coefficient: $r = 0.999281$, $r^2 = 0.998563$

Calibration curve: $1.46225 * x + 0.207419$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.22	1809.064	40676.949	0.556	0.2	-4.7	NO	0.999	NO	MM
2	2 170926M1_7	Standard	0.500	4.21	2702.323	43655.695	0.774	0.4	-22.5	NO	0.999	NO	bb
3	3 170926M1_8	Standard	1.000	4.21	6198.883	40823.016	1.898	1.2	15.6	NO	0.999	NO	MM
4	4 170926M1_9	Standard	2.000	4.22	11526.052	40806.695	3.531	2.3	13.6	NO	0.999	NO	MM
5	5 170926M1_10	Standard	5.000	4.21	27126.686	43516.934	7.792	5.2	3.7	NO	0.999	NO	MM
6	6 170926M1_11	Standard	10.000	4.21	51965.637	46191.582	14.063	9.5	-5.2	NO	0.999	NO	MM
7	7 170926M1_12	Standard	50.000	4.21	245764.266	40428.777	75.987	51.8	3.6	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	4.21	498734.031	45186.660	137.965	94.2	-5.8	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	4.21	1408037.875	47361.582	371.619	254.0	1.6	NO	0.999	NO	MM

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.998406$

Calibration curve: $-0.00656321 * x^2 + 1.68851 * x + 0.00415304$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.20	315.468	9724.055	0.406	0.2	-4.8	NO	0.998	NO	MM
2	2 170926M1_7	Standard	0.500	4.20	544.104	6569.169	1.035	0.6	22.4	NO	0.998	NO	bb
3	3 170926M1_8	Standard	1.000	4.20	752.761	6167.581	1.526	0.9	-9.6	NO	0.998	NO	bb
4	4 170926M1_9	Standard	2.000	4.21	1827.951	6623.573	3.450	2.1	2.9	NO	0.998	NO	MM
5	5 170926M1_10	Standard	5.000	4.20	3974.785	6467.106	7.683	4.6	-7.4	NO	0.998	NO	bb
6	6 170926M1_11	Standard	10.000	4.20	8855.378	7191.006	15.393	9.5	-5.4	NO	0.998	NO	MM
7	7 170926M1_12	Standard	50.000	4.20	41330.645	7331.251	70.470	52.4	4.8	NO	0.998	NO	MM
8	8 170926M1_13	Standard	100.000	4.20	64133.211	7850.913	102.111	97.2	-2.8	NO	0.998	NO	MM
9	9 170926M1_14	Standard	250.000	4.20	174323.828	12506.111	174.239			NO	0.998	NO	MMXI

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Compound name: N-MeFOSAA

Coefficient of Determination: R² = 0.995836

Calibration curve: -0.0112437 * x² + 22.9744 * x + -0.911341

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.25	374.945	12196.284	4.996	0.3	2.9	NO	0.996	NO	bb
2	2 170926M1_7	Standard	0.500	4.24	863.038	12392.990	11.316	0.5	6.5	NO	0.996	NO	bb
3	3 170926M1_8	Standard	1.000	4.24	1455.833	11913.329	19.858	0.9	-9.6	NO	0.996	NO	bb
4	4 170926M1_9	Standard	2.000	4.24	3302.239	12074.676	44.441	2.0	-1.2	NO	0.996	NO	bb
5	5 170926M1_10	Standard	5.000	4.24	7461.885	10528.059	115.174	5.1	1.3	NO	0.996	NO	bb
6	6 170926M1_11	Standard	10.000	4.24	15174.544	11495.141	214.514	9.4	-5.8	NO	0.996	NO	MM
7	7 170926M1_12	Standard	50.000	4.24	78833.969	10126.701	1265.024	56.7	13.3	NO	0.996	NO	MM
8	8 170926M1_13	Standard	100.000	4.24	138848.438	11213.943	2012.037	91.7	-8.3	NO	0.996	NO	MM
9	9 170926M1_14	Standard	250.000	4.24	408477.063	13065.874	5080.221	252.3	0.9	NO	0.996	NO	MM

Compound name: N-EtFOSAA

Coefficient of Determination: R² = 0.998534

Calibration curve: -0.00890763 * x² + 16.3453 * x + -0.684366

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.33	282.318	13244.567	3.464	0.3	1.5	NO	0.999	NO	bb
2	2 170926M1_7	Standard	0.500	4.32	492.629	11852.436	6.754	0.5	-9.0	NO	0.999	NO	bb
3	3 170926M1_8	Standard	1.000	4.31	1264.474	13175.144	15.596	1.0	-0.3	NO	0.999	NO	bb
4	4 170926M1_9	Standard	2.000	4.31	2427.112	11766.679	33.519	2.1	4.7	NO	0.999	NO	bb
5	5 170926M1_10	Standard	5.000	4.31	5540.580	11938.980	75.412	4.7	-6.7	NO	0.999	NO	bb
6	6 170926M1_11	Standard	10.000	4.31	11756.753	13423.490	142.323	8.8	-12.1	NO	0.999	NO	bb
7	7 170926M1_12	Standard	50.000	4.31	58530.727	11155.334	852.618	53.8	7.6	NO	0.999	NO	MM
8	8 170926M1_13	Standard	100.000	4.31	114537.148	12360.525	1505.784	97.3	-2.7	NO	0.999	NO	MM
9	9 170926M1_14	Standard	250.000	4.31	338282.594	15556.141	3533.712	250.4	0.2	NO	0.999	NO	MM

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Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.997588$

Calibration curve: $-0.000312159 * x^2 + 0.993899 * x + 0.074875$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 170926M1_6	Standard	0.250	4.39	1242.770	46638.336	0.333	0.3	3.9	NO	0.998	NO	MM
2	2 170926M1_7	Standard	0.500	4.39	1864.781	48031.109	0.485	0.4	-17.4	NO	0.998	NO	MM
3	3 170926M1_8	Standard	1.000	4.39	4148.276	44567.988	1.163	1.1	9.6	NO	0.998	NO	MM
4	4 170926M1_9	Standard	2.000	4.39	8776.668	51763.707	2.119	2.1	2.9	NO	0.998	NO	MM
5	5 170926M1_10	Standard	5.000	4.39	19500.156	48689.520	5.006	5.0	-0.6	NO	0.998	NO	MM
6	6 170926M1_11	Standard	10.000	4.39	44152.895	56717.602	9.731	9.7	-2.5	NO	0.998	NO	MM
7	7 170926M1_12	Standard	50.000	4.39	200057.422	46499.516	53.779	55.0	10.0	NO	0.998	NO	MM
8	8 170926M1_13	Standard	100.000	4.39	369020.469	51092.230	90.283	93.5	-6.5	NO	0.998	NO	MM
9	9 170926M1_14	Standard	250.000	4.39	1103747.125	59852.008	230.516	251.8	0.7	NO	0.998	NO	MM

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.994527$

Calibration curve: $-0.000108001 * x^2 + 0.220551 * x + 0.00739669$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 170926M1_6	Standard	0.250	4.45	210.530	46638.336	0.056	0.2	-11.1	NO	0.995	NO	bb
2	2 170926M1_7	Standard	0.500	4.45	453.199	48031.109	0.118	0.5	0.3	NO	0.995	NO	bb
3	3 170926M1_8	Standard	1.000	4.45	1006.582	44567.988	0.282	1.2	24.7	NO	0.995	NO	bb
4	4 170926M1_9	Standard	2.000	4.45	1780.880	51763.707	0.430	1.9	-4.1	NO	0.995	NO	bb
5	5 170926M1_10	Standard	5.000	4.45	4019.807	48689.520	1.032	4.7	-6.9	NO	0.995	NO	bb
6	6 170926M1_11	Standard	10.000	4.45	8939.513	56717.602	1.970	8.9	-10.6	NO	0.995	NO	bb
7	7 170926M1_12	Standard	50.000	4.44	46021.668	46499.516	12.372	57.7	15.4	NO	0.995	NO	MM
8	8 170926M1_13	Standard	100.000	4.45	78819.391	51092.230	19.284	91.5	-8.5	NO	0.995	NO	MM
9	9 170926M1_14	Standard	250.000	4.45	233489.422	59852.008	48.764	252.2	0.9	NO	0.995	NO	MM

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.997237$

Calibration curve: $-0.000451691 * x^2 + 1.21253 * x + 0.0242095$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.58	1521.421	55114.473	0.345	0.3	5.9	NO	0.997	NO	MM
2	2 170926M1_7	Standard	0.500	4.59	2503.455	57116.289	0.548	0.4	-13.6	NO	0.997	NO	bb
3	3 170926M1_8	Standard	1.000	4.58	4657.863	42091.691	1.383	1.1	12.1	NO	0.997	NO	bb
4	4 170926M1_9	Standard	2.000	4.59	11186.10E	59358.070	2.356	1.9	-3.8	NO	0.997	NO	MM
5	5 170926M1_10	Standard	5.000	4.58	24483.289	48163.355	6.354	5.2	4.6	NO	0.997	NO	MM
6	6 170926M1_11	Standard	10.000	4.58	46116.102	53154.969	10.845	9.0	-10.5	NO	0.997	NO	MM
7	7 170926M1_12	Standard	50.000	4.58	223898.875	42575.363	65.736	55.3	10.7	NO	0.997	NO	MM
8	8 170926M1_13	Standard	100.000	4.58	464060.594	52710.457	110.049	94.0	-6.0	NO	0.997	NO	MM
9	9 170926M1_14	Standard	250.000	4.58	1416201.875	64044.016	276.412	251.5	0.6	NO	0.997	NO	MM

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999755$, $r^2 = 0.999510$

Calibration curve: $1.15061 * x + -0.0988604$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	4.69	304.674	26458.871	1.727	1.6	27.0	NO	1.000	NO	bb
2	2 170926M1_7	Standard	2.500	4.70	314.343	23436.869	2.012	1.8	-26.6	NO	1.000	NO	bb
3	3 170926M1_8	Standard	5.000	4.69	971.912	26089.443	5.588	4.9	-1.2	NO	1.000	NO	bb
4	4 170926M1_9	Standard	10.000	4.69	1820.220	25598.795	10.666	9.4	-6.4	NO	1.000	NO	bb
5	5 170926M1_10	Standard	25.000	4.69	4620.715	24694.502	28.067	24.5	-2.1	NO	1.000	NO	bb
6	6 170926M1_11	Standard	50.000	4.69	9861.315	26071.943	56.735	49.4	-1.2	NO	1.000	NO	bb
7	7 170926M1_12	Standard	250.000	4.69	50785.469	25834.549	294.869	256.4	2.5	NO	1.000	NO	bb
8	8 170926M1_13	Standard	500.000	4.69	94658.055	24096.344	589.247	512.2	2.4	NO	1.000	NO	bb
9	9 170926M1_14	Standard	1250.000	4.69	312305.656	33006.535	1419.290	1233.6	-1.3	NO	1.000	NO	bb

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Compound name: PFTrDA

Coefficient of Determination: $R^2 = 0.993928$

Calibration curve: $-0.0011688 * x^2 + 1.57785 * x + -0.0303569$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.78	1799.976	55114.473	0.408	0.3	11.2	NO	0.994	NO	bb
2	2 170926M1_7	Standard	0.500	4.78	2920.577	57116.289	0.639	0.4	-15.1	NO	0.994	NO	MM
3	3 170926M1_8	Standard	1.000	4.78	6722.675	42091.691	1.996	1.3	28.6	NO	0.994	NO	MM
4	4 170926M1_9	Standard	2.000	4.78	12404.167	59358.070	2.612	1.7	-16.2	NO	0.994	NO	MM
5	5 170926M1_10	Standard	5.000	4.78	29502.145	48163.355	7.657	4.9	-2.2	NO	0.994	NO	MM
6	6 170926M1_11	Standard	10.000	4.78	56889.320	53154.969	13.378	8.6	-14.5	NO	0.994	NO	MM
7	7 170926M1_12	Standard	50.000	4.78	297198.875	42575.363	87.257	57.8	15.6	NO	0.994	NO	MM
8	8 170926M1_13	Standard	100.000	4.78	569621.000	52710.457	135.083	91.9	-8.1	NO	0.994	NO	MM
9	9 170926M1_14	Standard	250.000	4.78	1658008.500	64044.016	323.607	252.2	0.9	NO	0.994	NO	MM

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999507$

Calibration curve: $-0.000612866 * x^2 + 1.40069 * x + -0.00357815$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	4.99	1010.507	37013.637	0.341	0.2	-1.5	NO	1.000	NO	bb
2	2 170926M1_7	Standard	0.500	4.99	2061.881	38082.727	0.677	0.5	-2.8	NO	1.000	NO	MM
3	3 170926M1_8	Standard	1.000	4.99	4596.044	37973.418	1.513	1.1	8.3	NO	1.000	NO	bb
4	4 170926M1_9	Standard	2.000	4.99	8445.588	35924.535	2.939	2.1	5.1	NO	1.000	NO	bb
5	5 170926M1_10	Standard	5.000	4.99	19178.607	37023.102	6.475	4.6	-7.3	NO	1.000	NO	bb
6	6 170926M1_11	Standard	10.000	4.99	40240.199	37704.617	13.341	9.6	-4.3	NO	1.000	NO	bb
7	7 170926M1_12	Standard	50.000	4.98	202104.750	35403.434	71.358	52.1	4.3	NO	1.000	NO	db
8	8 170926M1_13	Standard	100.000	4.99	375395.125	35675.473	131.531	98.1	-1.9	NO	1.000	NO	bb
9	9 170926M1_14	Standard	250.000	4.98	1106227.125	44279.004	312.289	250.4	0.2	NO	1.000	NO	bb

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Compound name: N-EtFOSA

Correlation coefficient: $r = 0.999839$, $r^2 = 0.999679$

Calibration curve: $0.95299 * x + -0.0869952$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	5.20	349.949	43976.152	1.194	1.3	7.5	NO	1.000	NO	bb
2	2 170926M1_7	Standard	2.500	5.20	498.862	35872.090	2.086	2.3	-8.8	NO	1.000	NO	bb
3	3 170926M1_8	Standard	5.000	5.20	1242.196	40771.258	4.570	4.9	-2.3	NO	1.000	NO	MM
4	4 170926M1_9	Standard	10.000	5.20	2654.510	37659.672	10.573	11.2	11.9	NO	1.000	NO	bb
5	5 170926M1_10	Standard	25.000	5.20	5703.217	38398.379	22.279	23.5	-6.1	NO	1.000	NO	bb
6	6 170926M1_11	Standard	50.000	5.20	12365.249	40772.563	45.491	47.8	-4.3	NO	1.000	NO	bb
7	7 170926M1_12	Standard	250.000	5.19	63707.438	38893.816	245.698	257.9	3.2	NO	1.000	NO	bb
8	8 170926M1_13	Standard	500.000	5.20	113758.297	36174.008	471.713	495.1	-1.0	NO	1.000	NO	db
9	9 170926M1_14	Standard	1250.000	5.20	374139.750	47123.430	1190.935	1249.8	-0.0	NO	1.000	NO	db

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.997640$

Calibration curve: $-0.000900659 * x^2 + 1.56188 * x + 0.176879$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	5.40	2162.489	18082.809	0.598	0.3	7.9	NO	0.998	NO	bb
2	2 170926M1_7	Standard	0.500	5.40	3129.228	17089.945	0.916	0.5	-5.4	NO	0.998	NO	bb
3	3 170926M1_8	Standard	1.000	5.39	6370.820	17784.754	1.791	1.0	3.4	NO	0.998	NO	bb
4	4 170926M1_9	Standard	2.000	5.40	11804.429	17402.824	3.392	2.1	3.0	NO	0.998	NO	bb
5	5 170926M1_10	Standard	5.000	5.40	27298.744	19552.660	6.981	4.4	-12.7	NO	0.998	NO	bb
6	6 170926M1_11	Standard	10.000	5.40	55764.992	17904.338	15.573	9.9	-0.9	NO	0.998	NO	bb
7	7 170926M1_12	Standard	50.000	5.39	289114.156	17374.127	83.202	54.9	9.8	NO	0.998	NO	bb
8	8 170926M1_13	Standard	100.000	5.40	514547.844	18459.410	139.373	94.2	-5.8	NO	0.998	NO	bb
9	9 170926M1_14	Standard	250.000	5.39	1675881.375	24928.498	336.138	251.6	0.6	NO	0.998	NO	MM

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Compound name: PFODA

Correlation coefficient: $r = 0.997117$, $r^2 = 0.994243$

Calibration curve: $1.6128 * x + 0.18154$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	0.250	5.79	1845.437	18082.809	0.510	0.2	-18.5	NO	0.994	NO	MM
2	2 170926M1_7	Standard	0.500	5.79	3278.084	17089.945	0.959	0.5	-3.6	NO	0.994	NO	bb
3	3 170926M1_8	Standard	1.000	5.78	7448.569	17784.754	2.094	1.2	18.6	NO	0.994	NO	bb
4	4 170926M1_9	Standard	2.000	5.79	14194.803	17402.824	4.078	2.4	20.8	NO	0.994	NO	bb
5	5 170926M1_10	Standard	5.000	5.79	32375.197	19552.660	8.279	5.0	0.4	NO	0.994	NO	MM
6	6 170926M1_11	Standard	10.000	5.79	66210.336	17904.338	18.490	11.4	13.5	NO	0.994	NO	bb
7	7 170926M1_12	Standard	50.000	5.78	327391.844	17374.127	94.218	58.3	16.6	NO	0.994	NO	MM
8	8 170926M1_13	Standard	100.000	5.78	608188.250	18459.410	164.737	102.0	2.0	NO	0.994	NO	MM
9	9 170926M1_14	Standard	250.000	5.78	1912645.125	24928.498	383.626	237.8	-4.9	NO	0.994	NO	MM

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.999877$, $r^2 = 0.999753$

Calibration curve: $1.10249 * x + 0.0738679$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	5.51	468.861	48932.402	1.437	1.2	-1.1	NO	1.000	NO	MM
2	2 170926M1_7	Standard	2.500	5.50	860.985	42944.129	3.007	2.7	6.4	NO	1.000	NO	bb
3	3 170926M1_8	Standard	5.000	5.50	1739.477	47931.863	5.444	4.9	-2.6	NO	1.000	NO	MM
4	4 170926M1_9	Standard	10.000	5.50	3463.327	46359.813	11.206	10.1	1.0	NO	1.000	NO	MM
5	5 170926M1_10	Standard	25.000	5.50	8249.956	44421.957	27.858	25.2	0.8	NO	1.000	NO	MM
6	6 170926M1_11	Standard	50.000	5.50	16993.086	46820.031	54.442	49.3	-1.4	NO	1.000	NO	MM
7	7 170926M1_12	Standard	250.000	5.50	84390.820	47364.055	267.262	242.3	-3.1	NO	1.000	NO	MM
8	8 170926M1_13	Standard	500.000	5.50	159683.391	44001.262	544.360	493.7	-1.3	NO	1.000	NO	MM
9	9 170926M1_14	Standard	1250.000	5.50	552525.000	59454.320	1393.990	1264.3	1.1	NO	1.000	NO	MM

Dataset: U:\Q4.PRO\results\170926M1\170926M1-CRV.qld

Last Altered: Tuesday, September 26, 2017 14:10:06 Pacific Daylight Time
 Printed: Tuesday, September 26, 2017 14:10:57 Pacific Daylight Time

Compound name: N-EtFOSE

Correlation coefficient: $r = 0.999949$, $r^2 = 0.999899$

Calibration curve: $1.21879 * x + 0.083075$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	1.250	5.68	518.430	49696.551	1.565	1.2	-2.7	NO	1.000	NO	MM
2	2 170926M1_7	Standard	2.500	5.68	942.661	42949.688	3.292	2.6	5.3	NO	1.000	NO	MM
3	3 170926M1_8	Standard	5.000	5.68	1942.995	47918.156	6.082	4.9	-1.6	NO	1.000	NO	MM
4	4 170926M1_9	Standard	10.000	5.69	3870.542	47450.496	12.236	10.0	-0.3	NO	1.000	NO	bb
5	5 170926M1_10	Standard	25.000	5.68	9363.276	45689.371	30.740	25.2	0.6	NO	1.000	NO	MM
6	6 170926M1_11	Standard	50.000	5.68	19322.926	47679.582	60.790	49.8	-0.4	NO	1.000	NO	MM
7	7 170926M1_12	Standard	250.000	5.68	97002.031	47720.359	304.908	250.1	0.0	NO	1.000	NO	MM
8	8 170926M1_13	Standard	500.000	5.68	179905.734	45030.609	599.278	491.6	-1.7	NO	1.000	NO	bb
9	9 170926M1_14	Standard	1250.000	5.68	607948.313	59459.238	1533.694	1258.3	0.7	NO	1.000	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.889524

RRF SD: 0.0331836, Relative SD: 3.73049

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170926M1_6	Standard	12.500	1.92	17613.805	20568.512	10.704	12.0	-3.7	NO		NO	bb
2	2 170926M1_7	Standard	12.500	1.88	18773.246	20001.580	11.732	13.2	5.5	NO		NO	MM
3	3 170926M1_8	Standard	12.500	1.88	18408.828	21179.725	10.865	12.2	-2.3	NO		NO	MM
4	4 170926M1_9	Standard	12.500	1.88	18209.129	21140.998	10.766	12.1	-3.2	NO		NO	MM
5	5 170926M1_10	Standard	12.500	1.88	19320.969	21268.020	11.356	12.8	2.1	NO		NO	MM
6	6 170926M1_11	Standard	12.500	1.88	19283.436	21580.488	11.169	12.6	0.5	NO		NO	MM
7	7 170926M1_12	Standard	12.500	1.88	18174.063	21526.723	10.553	11.9	-5.1	NO		NO	bb
8	8 170926M1_13	Standard	12.500	1.88	18974.527	20893.273	11.352	12.8	2.1	NO		NO	MM
9	9 170926M1_14	Standard	12.500	1.88	21058.029	22744.289	11.573	13.0	4.1	NO		NO	MM

Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 14:38:17 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:40:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\IC18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170926M1_5	IPA	26-Sep-17	09:18:26
2	170926M1_6	ST170926M1-1 PFC CS-2 17I2504	26-Sep-17	09:34:33
3	170926M1_7	ST170926M1-2 PFC CS-1 17I2505	26-Sep-17	09:56:46
4	170926M1_8	ST170926M1-3 PFC CS0 17I2506	26-Sep-17	10:09:38
5	170926M1_9	ST170926M1-4 PFC CS1 17I2507	26-Sep-17	10:20:25
6	170926M1_10	ST170926M1-5 PFC CS2 17I2508	26-Sep-17	10:31:03
7	170926M1_11	ST170926M1-6 PFC CS3 17I2509	26-Sep-17	10:41:42
8	170926M1_12	ST170926M1-7 PFC CS4 17I2510	26-Sep-17	10:52:20
9	170926M1_13	ST170926M1-8 PFC CS5 17I2511	26-Sep-17	11:02:58
10	170926M1_14	ST170926M1-9 PFC CS6 17I2512	26-Sep-17	11:13:37
11	170926M1_15	ST170926M1-10 PFC CS7 17I2513	26-Sep-17	11:24:23
12	170926M1_16	IPA	26-Sep-17	11:35:02
13	170926M1_17	ICV170926M1-1 PFC ICV 17I2514	26-Sep-17	11:45:48

Dataset: U:\Q4.PRO\results\170926M1\170926M1-17.qld

Last Altered: Tuesday, September 26, 2017 14:37:23 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:42:03 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-26-17.mdb 26 Sep 2017 12:30:26

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL.cdb 26 Sep 2017 14:23:13

Name: 170926M1_17, Date: 26-Sep-2017, Time: 11:45:48, ID: ICV170926M1-1 PFC ICV 1712514, Description: PFC ICV 1712514

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.74e4	1.91e4		1.88	1.88	11.3	9.72	97.2
2	2 PFPeA	263.1 > 219.1	3.42e4	3.91e4		2.98	2.98	10.9	10.3	102.8
3	3 PFBS	299.1 > 79.9	6.85e3	8.90e3		3.17	3.15	9.63	9.21	92.1
4	4 PFHxA	313.2 > 268.9	6.06e4	1.87e4		3.37	3.37	16.2	10.4	104.3
5	5 PFHpA	363.1 > 319.1	6.21e4	7.62e4		3.63	3.63	10.2	9.95	99.5
6	6 L-PFHxS	399.0 > 80.0	8.04e3	5.52e3		3.71	3.70	18.2	7.75	77.5
7	8 6:2 FTS	427.1 > 407	7.31e3	8.68e3		3.84	3.83	10.5	9.12	91.2
8	9 L-PFOA	413 > 368.7	4.69e4	5.58e4		3.84	3.84	10.5	9.68	96.8
9	11 PFHpS	449 > 79.9	9.03e3	5.58e4		3.90	3.90	2.02	8.92	89.2
10	12 PFNA	463.1 > 419.1	4.72e4	5.09e4		4.03	4.02	11.6	10.4	104.4
11	13 PFOSA	498.1 > 77.8	6.25e3	7.56e3		4.04	4.04	10.3	9.31	93.1
12	14 L-PFOS	499 > 79.9	1.02e4	1.09e4		4.08	4.09	11.8	11.0	110.3
13	16 PFDA	513 > 468.8	5.51e4	4.41e4		4.21	4.21	15.6	10.5	105.4
14	17 8:2 FTS	527 > 506.9	7.87e3	6.38e3		4.21	4.20	15.4	9.48	94.8
15	18 N-MeFOSAA	570.1 > 419	1.57e4	1.26e4		4.24	4.24	203	8.93	89.3
16	19 N-EtFOSAA	584.2 > 419	1.22e4	1.26e4		4.32	4.31	157	9.70	97.0
17	20 PFUnA	562.9 > 518.9	4.12e4	5.19e4		4.39	4.39	9.92	9.94	99.4
18	21 PFDS	598.9 > 80	8.88e3	5.19e4		4.45	4.44	2.14	9.71	97.1
19	22 PFDoA	613.0 > 569.1	4.66e4	5.62e4		4.59	4.59	10.4	8.57	85.7
20	23 N-MeFOSA	512.1 > 168.9		2.42e4		4.70				
21	24 PFTrDA	662.9 > 618.9	6.25e4	5.62e4		4.78	4.78	13.9	8.89	88.9
22	25 PFTeDA	712.9 > 668.8	3.99e4	3.51e4		4.99	4.98	14.2	10.2	101.9
23	26 N-EtFOSA	526.1 > 168.9		3.59e4		5.20				
24	27 PFHxDA	812.8 > 768.9		1.86e4		5.40				
25	28 PFODA	912.8 > 868.8		1.86e4		5.79				
26	29 N-MeFOSE	616.1 > 58.9		4.28e4		5.50				
27	30 N-EtFOSE	630.1 > 58.9		4.31e4		5.68				
28	31 13C3-PFBA	216.1 > 172.1	1.91e4	2.06e4	0.890	1.88	1.88	11.6	13.0	104.3
29	32 13C3-PFPeA	266.1 > 222.1	3.91e4	6.19e4	0.236	2.98	2.98	3.15	13.4	106.9
30	33 13C3-PFBS	302.1 > 79.9	8.90e3	6.19e4	0.056	3.17	3.15	0.718	12.9	102.9
31	34 13C3-PFHxA	315 > 269.8	1.87e4	6.19e4	0.283	3.37	3.37	1.51	5.33	106.7

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Dataset: U:\Q4.PRO\results\170926M1\170926M1-17.qld

Last Altered: Tuesday, September 26, 2017 14:37:23 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 14:42:03 Pacific Daylight Time

Name: 170926M1_17, Date: 26-Sep-2017, Time: 11:45:48, ID: ICV170926M1-1 PFC ICV 1712514, Description: PFC ICV 1712514

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
32	35	13C4-PFHpA	367 > 322.1	7.62e4	6.19e4	0.499	3.63	3.63	6.16	12.3	98.6
33	36	18O2-PFHxS	403 > 103.0	5.52e3	1.01e4	0.482	3.71	3.70	6.83	14.1	113.2
34	37	13C2-6:2 FTS	429.1 > 408.9	8.68e3	4.73e4	0.183	3.84	3.83	2.29	12.5	100.2
35	38	13C2-PFOA	414.9 > 369.7	5.58e4	4.73e4	1.158	3.84	3.84	14.8	12.7	102.0
36	39	13C5-PFNA	468.1 > 423.1	5.09e4	5.25e4	0.888	4.03	4.02	12.1	13.6	109.1
37	40	13C8-PFOA	506.1 > 78.0	7.56e3	5.12e4	0.143	4.04	4.03	1.85	12.9	103.5
38	41	13C8-PFOS	507 > 79.9	1.09e4	9.44e3	1.013	4.08	4.09	14.4	14.2	113.9
39	42	13C2-PFDA	515.1 > 469.9	4.41e4	4.39e4	0.876	4.21	4.21	12.5	14.3	114.6
40	43	13C2-8:2 FTS	529.1 > 508.7	6.38e3	4.39e4	0.148	4.21	4.20	1.82	12.3	98.4
41	44	d3-N-MeFOSAA	573.3 > 419	1.26e4	5.12e4	0.017	4.24	4.24	3.07	180	110.8
42	45	d5-N-EtFOSAA	589.3 > 419	1.26e4	5.12e4	0.019	4.32	4.31	3.07	165	101.8
43	46	13C2-PFUnA	565 > 519.8	5.19e4	5.12e4	0.959	4.39	4.39	12.7	13.2	105.6
44	47	13C2-PFDoA	615.1 > 570.1	5.62e4	5.12e4	1.003	4.59	4.58	13.7	13.7	109.4
45	48	d3-N-MeFOSA	515.2 > 168.9	2.42e4	5.12e4	0.041	4.70	4.72	5.90	142	94.8
46	49	13C2-PFTeDA	714.8 > 669.6	3.51e4	5.12e4	0.716	4.99	4.98	8.57	12.0	95.7
47	50	d5-N-ETFOSA	531.1 > 168.9	3.59e4	5.12e4	0.063	5.20	5.23	8.76	138	92.2
48	51	13C2-PFHxDA	815 > 769.7	1.86e4	5.12e4	0.892	5.40	5.39	4.53	5.08	101.5
49	52	d7-N-MeFOSE	623.1 > 58.9	4.28e4	5.12e4	0.075	5.50	5.49	10.5	139	92.3
50	53	d9-N-EtFOSE	639.2 > 58.8	4.31e4	5.12e4	0.076	5.68	5.67	10.5	137	91.7
51	54	13C4-PFBA	217.1 > 172.1	2.06e4	2.06e4	1.000	1.88	1.88	12.5	12.5	100.0
52	55	13C5-PFHxA	318 > 272.9	6.19e4	6.19e4	1.000	3.37	3.37	5.00	5.00	100.0
53	56	13C3-PFHxS	402.1 > 80.0	1.01e4	1.01e4	1.000	3.71	3.70	12.5	12.5	100.0
54	57	13C8-PFOA	421.3 > 376	4.73e4	4.73e4	1.000	3.84	3.84	12.5	12.5	100.0
55	58	13C9-PFNA	472.1 > 427.1	5.25e4	5.25e4	1.000	4.03	4.03	12.5	12.5	100.0
56	59	13C4-PFOS	503 > 79.9	9.44e3	9.44e3	1.000	4.08	4.09	12.5	12.5	100.0
57	60	13C6-PFDA	519.1 > 473.7	4.39e4	4.39e4	1.000	4.21	4.21	12.5	12.5	100.0
58	61	13C7-PFUnA	570.1 > 524.8	5.12e4	5.12e4	1.000	4.39	4.39	12.5	12.5	100.0

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time
 Printed: Friday, September 29, 2017 09:39:13 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:33:35
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-26-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

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Compound name: PFBA
 Coefficient of Determination: $R^2 = 0.999037$
 Calibration curve: $-0.000300068 * x^2 + 1.13412 * x + 0.042273$
 Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	1.27	369.864	13022.928	0.355	0.3	10.3	NO	0.999	NO	MM
2	2 170928M3_3	Standard	0.500	1.26	635.849	13291.230	0.598	0.5	-2.0	NO	0.999	NO	MM
3	3 170928M3_4	Standard	1.000	1.26	1351.925	13884.911	1.217	1.0	3.6	NO	0.999	NO	MM
4	4 170928M3_5	Standard	2.000	1.27	2795.740	14020.653	2.493	2.2	8.1	NO	0.999	NO	MM
5	5 170928M3_6	Standard	5.000	1.27	5972.149	13738.045	5.434	4.8	-4.8	NO	0.999	NO	MM
6	6 170928M3_7	Standard	10.000	1.26	12950.048	14735.806	10.985	9.7	-3.3	NO	0.999	NO	MM
7	7 170928M3_8	Standard	50.000	1.27	57276.125	12037.807	59.475	53.2	6.3	NO	0.999	NO	MM
8	8 170928M3_9	Standard	100.000	1.27	101616.266	11932.588	106.448	96.3	-3.7	NO	0.999	NO	MM
9	9 170928M3_10	Standard	250.000	1.26	218553.781	10280.356	265.742	250.9	0.4	NO	0.999	NO	MM

Compound name: PFPeA
 Correlation coefficient: $r = 0.998366$, $r^2 = 0.996735$
 Calibration curve: $1.04748 * x + 0.0392114$
 Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
 Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	2.46	573.536	24538.551	0.292	0.2	-3.4	NO	0.997	NO	bb
2	2 170928M3_3	Standard	0.500	2.46	972.721	25528.754	0.476	0.4	-16.5	NO	0.997	NO	MM
3	3 170928M3_4	Standard	1.000	2.47	2471.903	26877.639	1.150	1.1	6.0	NO	0.997	NO	MM
4	4 170928M3_5	Standard	2.000	2.47	4776.292	26163.990	2.282	2.1	7.1	NO	0.997	NO	MM
5	5 170928M3_6	Standard	5.000	2.47	10642.147	26440.822	5.031	4.8	-4.7	NO	0.997	NO	MM
6	6 170928M3_7	Standard	10.000	2.47	22849.488	27270.068	10.474	10.0	-0.4	NO	0.997	NO	MM
7	7 170928M3_8	Standard	50.000	2.47	109989.570	22876.877	60.099	57.3	14.7	NO	0.997	NO	MM
8	8 170928M3_9	Standard	100.000	2.47	189337.313	22523.961	105.075	100.3	0.3	NO	0.997	NO	MM
9	9 170928M3_10	Standard	250.000	2.47	419621.406	20641.928	254.107	242.6	-3.0	NO	0.997	NO	MM

Dataset: U:\Q4.PRO\results\170928M3\170928M3-CRV.qld

Last Altered: Friday, September 29, 2017 09:33:54 Pacific Daylight Time
 Printed: Friday, September 29, 2017 09:35:20 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.999193$, $r^2 = 0.998386$

Calibration curve: $1.0332 * x + 0.035187$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	2.76	128.103	6183.110	0.259	0.2	-13.4	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	2.76	262.659	6148.784	0.534	0.5	-3.4	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	2.76	554.181	6434.400	1.077	1.0	0.8	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	2.76	1147.908	6514.569	2.203	2.1	4.9	NO	0.998	NO	MM
5	5 170928M3_6	Standard	5.000	2.77	2522.123	6231.948	5.059	4.9	-2.8	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	2.76	5823.160	6555.914	11.103	10.7	7.1	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	2.76	26701.215	5867.511	56.884	55.0	10.0	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	2.76	46316.891	5698.620	101.597	98.3	-1.7	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	2.76	103619.633	5094.286	254.255	246.1	-1.6	NO	0.998	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999515$, $r^2 = 0.999031$

Calibration curve: $1.58113 * x + 0.198995$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.04	1342.977	11935.570	0.563	0.2	-8.0	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	3.04	2217.953	12221.417	0.907	0.4	-10.4	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.04	4400.008	12929.422	1.702	1.0	-5.0	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.05	9652.353	13191.891	3.658	2.2	9.4	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.05	20972.412	12579.332	8.336	5.1	2.9	NO	0.999	NO	MM
6	6 170928M3_7	Standard	10.000	3.04	44680.090	13090.655	17.066	10.7	6.7	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.04	202902.719	11941.879	84.954	53.6	7.2	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.04	353828.875	11371.417	155.578	98.3	-1.7	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	3.04	790258.438	10102.374	391.125	247.2	-1.1	NO	0.999	NO	bb

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Compound name: PFHpA

Correlation coefficient: $r = 0.999298$, $r^2 = 0.998597$

Calibration curve: $0.979153 * x + 0.108639$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.33	2181.096	82842.000	0.329	0.2	-9.9	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	3.33	3225.734	80077.289	0.504	0.4	-19.3	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.33	8154.745	87541.445	1.164	1.1	7.8	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.33	15264.832	84701.547	2.253	2.2	9.5	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.33	33934.039	82375.031	5.149	5.1	3.0	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	3.33	69474.516	86134.781	10.082	10.2	1.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.33	322515.844	75305.078	53.535	54.6	9.1	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.33	557512.938	71053.664	98.080	100.1	0.1	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	3.33	1086198.875	56595.875	239.902	244.9	-2.0	NO	0.999	NO	bb

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.996433$

Calibration curve: $-0.000864694 * x^2 + 2.39077 * x + 0.0759605$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.40	236.963	4678.456	0.633	0.2	-6.8	NO	0.996	NO	MM
2	2 170928M3_3	Standard	0.500	3.41	490.303	4707.833	1.302	0.5	2.6	NO	0.996	NO	MM
3	3 170928M3_4	Standard	1.000	3.41	1102.224	5208.072	2.645	1.1	7.5	NO	0.996	NO	MM
4	4 170928M3_5	Standard	2.000	3.41	1808.535	4815.056	4.695	1.9	-3.3	NO	0.996	NO	MM
5	5 170928M3_6	Standard	5.000	3.41	4630.482	5089.509	11.373	4.7	-5.3	NO	0.996	NO	bb
6	6 170928M3_7	Standard	10.000	3.41	9097.775	4742.982	23.977	10.0	0.3	NO	0.996	NO	MM
7	7 170928M3_8	Standard	50.000	3.41	47385.832	4505.737	131.460	56.1	12.2	NO	0.996	NO	MM
8	8 170928M3_9	Standard	100.000	3.41	80586.703	4735.439	212.722	92.0	-8.0	NO	0.996	NO	MM
9	9 170928M3_10	Standard	250.000	3.41	167567.719	3821.920	548.048	252.2	0.9	NO	0.996	NO	MM

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Compound name: 6:2 FTS

Coefficient of Determination: R^2 = 0.998225

Calibration curve: $-0.00463184 * x^2 + 1.26145 * x + -0.0874012$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.53	79.991	6007.633	0.166	0.2	-19.4	NO	0.998	NO	MM
2	2 170928M3_3	Standard	0.500	3.53	259.000	6219.678	0.521	0.5	-3.4	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.54	854.168	7247.016	1.473	1.2	24.3	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.54	1471.819	7050.064	2.610	2.2	7.8	NO	0.998	NO	bb
5	5 170928M3_6	Standard	5.000	3.54	3200.847	6804.010	5.880	4.8	-3.7	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.54	6476.166	7221.203	11.210	9.3	-7.3	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	3.54	28624.615	6808.528	52.553	51.4	2.9	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.54	47552.172	7499.823	79.255	98.6	-1.4	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.54	95520.578	8357.696	142.863			NO	0.998	NO	bbXI

Compound name: L-PFOA

Correlation coefficient: r = 0.998924, r^2 = 0.997848

Calibration curve: $1.01105 * x + 0.297931$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.54	2606.280	61459.211	0.530	0.2	-8.2	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	3.54	3618.482	61975.695	0.730	0.4	-14.6	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.54	7172.838	69373.492	1.292	1.0	-1.6	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.54	13105.771	65054.691	2.518	2.2	9.8	NO	0.998	NO	bd
5	5 170928M3_6	Standard	5.000	3.54	28654.352	63537.844	5.637	5.3	5.6	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.54	55863.410	66861.891	10.444	10.0	0.3	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	3.54	260340.766	57202.133	56.891	56.0	11.9	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.54	433189.531	54128.410	100.037	98.6	-1.4	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.54	892795.688	45003.547	247.979	245.0	-2.0	NO	0.998	NO	MM

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Compound name: PFHps

Correlation coefficient: $r = 0.998997$, $r^2 = 0.997996$

Calibration curve: $0.181174 * x + 0.00048669$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.61	239.869	61459.211	0.049	0.3	6.6	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	3.60	417.587	61975.695	0.084	0.5	-7.6	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.60	967.638	69373.492	0.174	1.0	-4.0	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.60	1897.917	65054.691	0.365	2.0	0.5	NO	0.998	NO	bb
5	5 170928M3_6	Standard	5.000	3.60	4700.215	63537.844	0.925	5.1	2.0	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.60	9106.304	66861.891	1.702	9.4	-6.1	NO	0.998	NO	MM
7	7 170928M3_8	Standard	50.000	3.60	46242.266	57202.133	10.105	55.8	11.5	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.60	78588.961	54128.410	18.149	100.2	0.2	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.60	159557.844	45003.547	44.318	244.6	-2.2	NO	0.998	NO	bb

Compound name: PFNA

Correlation coefficient: $r = 0.998995$, $r^2 = 0.997991$

Calibration curve: $1.11302 * x + 0.0686515$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.72	1482.125	60600.977	0.306	0.2	-14.8	NO	0.998	NO	bb
2	2 170928M3_3	Standard	0.500	3.72	2553.251	59045.605	0.541	0.4	-15.2	NO	0.998	NO	bb
3	3 170928M3_4	Standard	1.000	3.72	6525.971	64846.020	1.258	1.1	6.9	NO	0.998	NO	bb
4	4 170928M3_5	Standard	2.000	3.72	12741.200	63310.539	2.516	2.2	9.9	NO	0.998	NO	bb
5	5 170928M3_6	Standard	5.000	3.72	27822.332	61809.711	5.627	5.0	-0.1	NO	0.998	NO	bb
6	6 170928M3_7	Standard	10.000	3.72	59688.184	63699.242	11.713	10.5	4.6	NO	0.998	NO	bb
7	7 170928M3_8	Standard	50.000	3.72	275570.938	55809.199	61.722	55.4	10.8	NO	0.998	NO	bb
8	8 170928M3_9	Standard	100.000	3.72	451989.094	50427.320	112.040	100.6	0.6	NO	0.998	NO	bb
9	9 170928M3_10	Standard	250.000	3.72	930096.688	42904.926	270.976	243.4	-2.6	NO	0.998	NO	bb

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Compound name: PFOSA

Correlation coefficient: $r = 0.999111$, $r^2 = 0.998223$

Calibration curve: $1.0642 * x + 0.0854088$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.76	739.528	31668.861	0.292	0.2	-22.4	NO	0.998	NO	MM
2	2 170928M3_3	Standard	0.500	4.75	1407.289	29892.023	0.588	0.5	-5.5	NO	0.998	NO	MM
3	3 170928M3_4	Standard	1.000	4.75	3332.609	33931.996	1.228	1.1	7.3	NO	0.998	NO	MM
4	4 170928M3_5	Standard	2.000	4.75	5935.774	30818.037	2.408	2.2	9.1	NO	0.998	NO	MM
5	5 170928M3_6	Standard	5.000	4.75	13789.390	32368.520	5.325	4.9	-1.5	NO	0.998	NO	MM
6	6 170928M3_7	Standard	10.000	4.75	28996.908	32241.580	11.242	10.5	4.8	NO	0.998	NO	MM
7	7 170928M3_8	Standard	50.000	4.75	142391.922	30290.641	58.761	55.1	10.3	NO	0.998	NO	MM
8	8 170928M3_9	Standard	100.000	4.75	255970.234	29988.768	106.694	100.2	0.2	NO	0.998	NO	MM
9	9 170928M3_10	Standard	250.000	4.75	547663.063	26343.645	259.865	244.1	-2.4	NO	0.998	NO	MM

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.999585$

Calibration curve: $-0.000293182 * x^2 + 1.16229 * x - 0.023741$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.77	239.411	11695.686	0.256	0.2	-3.8	NO	1.000	NO	bb
2	2 170928M3_3	Standard	0.500	3.76	443.841	11152.891	0.497	0.4	-10.3	NO	1.000	NO	MM
3	3 170928M3_4	Standard	1.000	3.77	1258.508	12796.593	1.229	1.1	7.8	NO	1.000	NO	MM
4	4 170928M3_5	Standard	2.000	3.77	2207.653	11951.413	2.309	2.0	0.4	NO	1.000	NO	MM
5	5 170928M3_6	Standard	5.000	3.77	5708.773	12064.272	5.915	5.1	2.3	NO	1.000	NO	MM
6	6 170928M3_7	Standard	10.000	3.77	10424.043	12095.657	10.773	9.3	-6.9	NO	1.000	NO	MM
7	7 170928M3_8	Standard	50.000	3.77	53694.375	11282.274	59.490	51.9	3.8	NO	1.000	NO	MM
8	8 170928M3_9	Standard	100.000	3.77	95048.367	10661.548	111.438	98.3	-1.7	NO	1.000	NO	MM
9	9 170928M3_10	Standard	250.000	3.77	196538.703	9013.489	272.562	250.3	0.1	NO	1.000	NO	MM

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Compound name: PFDA

Correlation coefficient: $r = 0.998624$, $r^2 = 0.997249$

Calibration curve: $1.39815 * x + 0.130252$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.88	1632.247	50770.152	0.402	0.2	-22.3	NO	0.997	NO	MM
2	2 170928M3_3	Standard	0.500	3.88	3246.847	50307.305	0.807	0.5	-3.2	NO	0.997	NO	MM
3	3 170928M3_4	Standard	1.000	3.89	7490.045	57015.258	1.642	1.1	8.1	NO	0.997	NO	bb
4	4 170928M3_5	Standard	2.000	3.88	12959.938	53969.359	3.002	2.1	2.7	NO	0.997	NO	bb
5	5 170928M3_6	Standard	5.000	3.89	30977.414	54305.574	7.130	5.0	0.1	NO	0.997	NO	MM
6	6 170928M3_7	Standard	10.000	3.89	65108.910	55174.547	14.751	10.5	4.6	NO	0.997	NO	MM
7	7 170928M3_8	Standard	50.000	3.88	302993.406	47636.184	79.507	56.8	13.5	NO	0.997	NO	bb
8	8 170928M3_9	Standard	100.000	3.88	525063.563	47395.383	138.480	99.0	-1.0	NO	0.997	NO	bb
9	9 170928M3_10	Standard	250.000	3.89	1033788.313	37903.582	340.927	243.7	-2.5	NO	0.997	NO	bb

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Compound name: 8:2 FTS

Coefficient of Determination: R² = 0.999484

Calibration curve: -0.00544716 * x² + 1.56431 * x + 0.00302826

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.90	148.677	4854.790	0.383	0.2	-2.8	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	3.88	280.402	4898.889	0.715	0.5	-8.8	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.88	762.753	5580.186	1.709	1.1	9.4	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.88	1458.794	5766.693	3.162	2.0	1.7	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.88	3332.042	5524.338	7.539	4.9	-2.0	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	3.88	6733.394	5334.074	15.779	10.5	4.7	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.88	29683.984	5849.875	63.429	48.9	-2.3	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.88	49624.801	6052.621	102.486	101.1	1.1	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	3.88	101136.797	7530.186	167.886			NO	0.999	NO	bbXI

Compound name: N-MeFOSAA

Coefficient of Determination: R² = 0.999439

Calibration curve: -0.0108182 * x² + 21.0299 * x + 1.49788

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	3.93	112.657	5330.528	3.434	0.1	-63.2	NO	0.999	NO	bbX
2	2 170928M3_3	Standard	0.500	3.92	300.336	5191.135	9.402	0.4	-24.8	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.92	1004.448	5900.453	27.663	1.2	24.5	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.93	1817.904	6154.321	48.000	2.2	10.7	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	3.93	3243.463	5589.241	94.300	4.4	-11.5	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	3.93	7666.457	5842.481	213.231	10.1	1.2	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	3.93	36285.438	5777.197	1020.631	49.7	-0.5	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.93	67049.258	5427.486	2007.468	100.6	0.6	NO	0.999	NO	MM
9	9 170928M3_10	Standard	250.000	3.93	143368.578	5087.310	4579.511	249.8	-0.1	NO	0.999	NO	MM

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Compound name: N-EtFOSAA

Coefficient of Determination: R² = 0.998865

Calibration curve: -0.00882433 * x² + 16.7677 * x + -0.921128

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.01	143.346	6049.564	3.850	0.3	13.8	NO	0.999	NO	MM
2	2 170928M3_3	Standard	0.500	3.99	223.358	5787.737	6.271	0.4	-14.2	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	3.99	619.219	6871.252	14.644	0.9	-7.1	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	3.99	1218.668	6259.750	31.636	1.9	-2.8	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.00	2964.687	6698.523	71.921	4.4	-12.9	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.00	6001.875	6056.110	161.045	9.7	-2.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.00	31685.865	5929.397	868.377	53.3	6.7	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	3.99	56353.363	5920.045	1546.850	97.3	-2.7	NO	0.999	NO	MM
9	9 170928M3_10	Standard	250.000	4.00	121909.125	5433.999	3645.608	250.5	0.2	NO	0.999	NO	MM

Compound name: PFUnA

Coefficient of Determination: R² = 0.999358

Calibration curve: -0.000247632 * x² + 0.592739 * x + 0.0286222

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.04	966.214	64970.063	0.186	0.3	6.1	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.04	1495.490	64383.629	0.290	0.4	-11.7	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.04	3337.155	68940.961	0.605	1.0	-2.7	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.04	7370.669	66925.758	1.377	2.3	13.8	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.04	15423.262	69052.094	2.792	4.7	-6.6	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.04	31037.578	66093.000	5.870	9.9	-1.0	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.04	143757.844	59276.160	30.315	52.2	4.5	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.04	248196.109	56053.453	55.348	97.3	-2.7	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.04	488342.281	45869.605	133.079	250.7	0.3	NO	0.999	NO	bb

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Compound name: PFDS

Coefficient of Determination: R² = 0.998834

Calibration curve: $-5.15691e-005 * x^2 + 0.195103 * x + 0.000531303$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.09	277.298	64970.063	0.053	0.3	8.3	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.08	479.707	64383.629	0.093	0.5	-5.1	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.08	1260.771	68940.961	0.229	1.2	16.9	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.08	2061.769	66925.758	0.385	2.0	-1.4	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.08	4448.923	69052.094	0.805	4.1	-17.4	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.08	9717.202	66093.000	1.838	9.4	-5.6	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.08	48433.133	59276.160	10.213	53.1	6.2	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.08	83493.273	56053.453	18.619	98.0	-2.0	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.09	167310.563	45869.605	45.594	250.2	0.1	NO	0.999	NO	bb

Compound name: PFDoA

Coefficient of Determination: R² = 0.999208

Calibration curve: $-0.000649665 * x^2 + 1.21076 * x + 0.0836458$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.19	1998.883	62715.340	0.398	0.3	4.0	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.18	3312.415	62254.543	0.665	0.5	-3.9	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.19	7277.650	70114.211	1.297	1.0	0.3	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.19	14387.285	66199.523	2.717	2.2	8.9	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.19	31327.273	68578.148	5.710	4.7	-6.8	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.19	62889.969	68604.000	11.459	9.4	-5.6	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.19	309866.531	62295.297	62.177	52.8	5.6	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.19	539269.188	60281.785	111.823	97.4	-2.6	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.19	1135013.375	54006.363	262.704	250.6	0.2	NO	0.999	NO	bb

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Compound name: PFTTrDA

Correlation coefficient: $r = 0.998040$, $r^2 = 0.996084$

Calibration curve: $0.697862 * x + 0.0906233$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.34	1139.738	62715.340	0.227	0.2	-21.7	NO	0.996	NO	MM
2	2 170928M3_3	Standard	0.500	4.33	1867.095	62254.543	0.375	0.4	-18.5	NO	0.996	NO	MM
3	3 170928M3_4	Standard	1.000	4.34	4643.897	70114.211	0.828	1.1	5.7	NO	0.996	NO	MM
4	4 170928M3_5	Standard	2.000	4.34	9197.687	66199.523	1.737	2.4	17.9	NO	0.996	NO	MM
5	5 170928M3_6	Standard	5.000	4.34	19946.109	68578.148	3.636	5.1	1.6	NO	0.996	NO	bb
6	6 170928M3_7	Standard	10.000	4.34	39736.242	68604.000	7.240	10.2	2.4	NO	0.996	NO	bb
7	7 170928M3_8	Standard	50.000	4.34	197530.031	62295.297	39.636	56.7	13.3	NO	0.996	NO	bb
8	8 170928M3_9	Standard	100.000	4.34	349349.281	60281.785	72.441	103.7	3.7	NO	0.996	NO	bb
9	9 170928M3_10	Standard	250.000	4.34	721206.000	54006.363	166.926	239.1	-4.4	NO	0.996	NO	bb

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999326$

Calibration curve: $-0.000443615 * x^2 + 1.12343 * x + 0.0760781$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.49	707.641	24869.613	0.356	0.2	-0.4	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.48	1081.867	23276.607	0.581	0.4	-10.1	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.49	2670.123	25518.555	1.308	1.1	9.7	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.49	4847.240	24584.127	2.465	2.1	6.4	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.50	11028.534	25569.730	5.391	4.7	-5.2	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.50	21474.807	24518.730	10.948	9.7	-2.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.50	109257.258	23590.477	57.893	52.6	5.1	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.49	194695.609	23184.098	104.973	97.1	-2.9	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.50	414618.000	20414.238	253.878	250.7	0.3	NO	0.999	NO	bb

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Compound name: N-EtFOSA

Correlation coefficient: $r = 0.998551$, $r^2 = 0.997105$

Calibration curve: $0.908948 * x + 0.45045$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	1.250	5.74	1253.703	141075.750	1.333	1.0	-22.3	NO	0.997	NO	bb
2	2 170928M3_3	Standard	2.500	5.73	2297.166	128569.188	2.680	2.5	-1.9	NO	0.997	NO	bb
3	3 170928M3_4	Standard	5.000	5.73	5069.151	146511.969	5.190	5.2	4.3	NO	0.997	NO	bb
4	4 170928M3_5	Standard	10.000	5.74	9575.077	146414.938	9.810	10.3	3.0	NO	0.997	NO	MM
5	5 170928M3_6	Standard	25.000	5.74	22095.725	137698.531	24.070	26.0	3.9	NO	0.997	NO	MM
6	6 170928M3_7	Standard	50.000	5.74	45115.715	141479.719	47.833	52.1	4.3	NO	0.997	NO	bb
7	7 170928M3_8	Standard	250.000	5.74	223035.406	138709.016	241.191	264.9	5.9	NO	0.997	NO	bb
8	8 170928M3_9	Standard	500.000	5.74	390314.156	120159.719	487.244	535.6	7.1	NO	0.997	NO	bb
9	9 170928M3_10	Standard	1250.000	5.74	799209.375	110203.844	1087.815	1196.3	-4.3	NO	0.997	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.998742$

Calibration curve: $-0.00113268 * x^2 + 1.53405 * x + 0.173478$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	4.83	1732.775	15330.092	0.565	0.3	2.1	NO	0.999	NO	bb
2	2 170928M3_3	Standard	0.500	4.83	2575.929	15344.305	0.839	0.4	-13.2	NO	0.999	NO	bb
3	3 170928M3_4	Standard	1.000	4.83	5649.817	16339.726	1.729	1.0	1.5	NO	0.999	NO	bb
4	4 170928M3_5	Standard	2.000	4.83	12207.379	17078.955	3.574	2.2	11.0	NO	0.999	NO	bb
5	5 170928M3_6	Standard	5.000	4.84	24507.279	16172.169	7.577	4.8	-3.1	NO	0.999	NO	bb
6	6 170928M3_7	Standard	10.000	4.84	48705.496	15951.070	15.267	9.9	-0.9	NO	0.999	NO	bb
7	7 170928M3_8	Standard	50.000	4.84	238853.313	15168.199	78.735	53.3	6.6	NO	0.999	NO	bb
8	8 170928M3_9	Standard	100.000	4.84	426142.938	15648.613	136.160	95.4	-4.6	NO	0.999	NO	bb
9	9 170928M3_10	Standard	250.000	4.84	897475.438	14272.891	314.399	251.6	0.6	NO	0.999	NO	bb

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Compound name: PFOA

Correlation coefficient: $r = 0.996881$, $r^2 = 0.993772$

Calibration curve: $1.03409 * x + 0.144454$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	0.250	5.17	1186.093	15330.092	0.387	0.2	-6.2	NO	0.994	NO	MM
2	2 170928M3_3	Standard	0.500	5.17	1959.199	15344.305	0.638	0.5	-4.5	NO	0.994	NO	MM
3	3 170928M3_4	Standard	1.000	5.18	4346.148	16339.726	1.330	1.1	14.6	NO	0.994	NO	bb
4	4 170928M3_5	Standard	2.000	5.18	8729.101	17078.955	2.556	2.3	16.6	NO	0.994	NO	MM
5	5 170928M3_6	Standard	5.000	5.18	18467.154	16172.169	5.710	5.4	7.6	NO	0.994	NO	MM
6	6 170928M3_7	Standard	10.000	5.18	37930.039	15951.070	11.889	11.4	13.6	NO	0.994	NO	MM
7	7 170928M3_8	Standard	50.000	5.18	185117.531	15168.199	61.022	58.9	17.7	NO	0.994	NO	MM
8	8 170928M3_9	Standard	100.000	5.18	328583.063	15648.613	104.988	101.4	1.4	NO	0.994	NO	MM
9	9 170928M3_10	Standard	250.000	5.19	701677.563	14272.891	245.808	237.6	-5.0	NO	0.994	NO	MM

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.997590$, $r^2 = 0.995185$

Calibration curve: $1.0016 * x + 0.537355$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	1.250	5.43	3278.734	313457.625	1.569	1.0	-17.6	NO	0.995	NO	MM
2	2 170928M3_3	Standard	2.500	5.43	5239.831	286750.719	2.741	2.2	-12.0	NO	0.995	NO	bb
3	3 170928M3_4	Standard	5.000	5.43	12223.632	332625.594	5.512	5.0	-0.7	NO	0.995	NO	bb
4	4 170928M3_5	Standard	10.000	5.43	24264.014	322236.000	11.295	10.7	7.4	NO	0.995	NO	bb
5	5 170928M3_6	Standard	25.000	5.43	54815.836	303428.938	27.098	26.5	6.1	NO	0.995	NO	MM
6	6 170928M3_7	Standard	50.000	5.43	111675.281	314627.500	53.242	52.6	5.2	NO	0.995	NO	MM
7	7 170928M3_8	Standard	250.000	5.43	555286.813	306973.281	271.336	270.4	8.1	NO	0.995	NO	MM
8	8 170928M3_9	Standard	500.000	5.43	990575.813	272059.813	546.153	544.7	8.9	NO	0.995	NO	MM
9	9 170928M3_10	Standard	1250.000	5.44	2054272.625	260476.297	1182.990	1180.6	-5.6	NO	0.995	NO	MM

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.997628$, $r^2 = 0.995263$

Calibration curve: $1.16004 * x + 0.57916$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	1.250	5.61	3405.392	293004.344	1.743	1.0	-19.7	NO	0.995	NO	bb
2	2 170928M3_3	Standard	2.500	5.61	5755.764	264405.250	3.265	2.3	-7.4	NO	0.995	NO	bb
3	3 170928M3_4	Standard	5.000	5.61	13105.551	312055.688	6.300	4.9	-1.4	NO	0.995	NO	bb
4	4 170928M3_5	Standard	10.000	5.61	26146.939	301790.656	12.996	10.7	7.0	NO	0.995	NO	MM
5	5 170928M3_6	Standard	25.000	5.61	59465.793	283417.188	31.473	26.6	6.5	NO	0.995	NO	MM
6	6 170928M3_7	Standard	50.000	5.61	119387.273	293054.969	61.108	52.2	4.4	NO	0.995	NO	bb
7	7 170928M3_8	Standard	250.000	5.61	590555.875	286746.250	308.926	265.8	6.3	NO	0.995	NO	bb
8	8 170928M3_9	Standard	500.000	5.61	1045090.563	246199.156	636.735	548.4	9.7	NO	0.995	NO	bb
9	9 170928M3_10	Standard	1250.000	5.61	2150845.500	235237.813	1371.492	1181.8	-5.5	NO	0.995	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.859788

RRF SD: 0.0404451, Relative SD: 4.70408

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170928M3_2	Standard	12.500	1.27	13022.928	15492.041	10.508	12.2	-2.2	NO		NO	MM
2	2 170928M3_3	Standard	12.500	1.26	13291.230	14657.481	11.335	13.2	5.5	NO		NO	MM
3	3 170928M3_4	Standard	12.500	1.27	13884.911	16177.305	10.729	12.5	-0.2	NO		NO	MM
4	4 170928M3_5	Standard	12.500	1.26	14020.653	16905.703	10.367	12.1	-3.5	NO		NO	MM
5	5 170928M3_6	Standard	12.500	1.26	13738.045	15253.195	11.258	13.1	4.8	NO		NO	MM
6	6 170928M3_7	Standard	12.500	1.26	14735.806	16920.586	10.886	12.7	1.3	NO		NO	MM
7	7 170928M3_8	Standard	12.500	1.27	12037.807	14725.886	10.218	11.9	-4.9	NO		NO	MM
8	8 170928M3_9	Standard	12.500	1.27	11932.588	13088.286	11.396	13.3	6.0	NO		NO	MM
9	9 170928M3_10	Standard	12.500	1.26	10280.356	12812.973	10.029	11.7	-6.7	NO		NO	MM

Dataset: Untitled

Last Altered: Friday, September 29, 2017 10:11:53 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:14:21 Pacific Daylight Time

Method: U:\Q4.PROMethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928M3_1	IPA	28-Sep-17	17:43:51
2	170928M3_2	ST170928M3-1 PFC CS-2 17I2809	28-Sep-17	17:54:38
3	170928M3_3	ST170928M3-2 PFC CS-1 17I2810	28-Sep-17	18:05:24
4	170928M3_4	ST170928M3-3 PFC CS0 17I2811	28-Sep-17	18:16:11
5	170928M3_5	ST170928M3-4 PFC CS1 17I2812	28-Sep-17	18:26:58
6	170928M3_6	ST170928M3-5 PFC CS2 17I2813	28-Sep-17	18:37:36
7	170928M3_7	ST170928M3-6 PFC CS3 17I2814	28-Sep-17	18:48:22
8	170928M3_8	ST170928M3-7 PFC CS4 17I2815	28-Sep-17	18:59:01
9	170928M3_9	ST170928M3-8 PFC CS5 17I2816	28-Sep-17	19:09:47
10	170928M3_10	ST170928M3-9 PFC CS6 17I2817	28-Sep-17	19:20:33
11	170928M3_11	ST170928M3-10 PFC CS7 17I2818	28-Sep-17	19:31:12
12	170928M3_12	IPA	28-Sep-17	19:41:51
13	170928M3_13	ICV170928M3-1 PFC ICV 17I2808	28-Sep-17	19:52:37

Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

Last Altered: Friday, September 29, 2017 10:06:08 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

ⓐ Not in ICV.

Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.1 > 169.1	1.28e4	1.38e4		1.27	1.26	11.7	10.3	102.8
2	2 PFPeA	263.1 > 219.1	2.24e4	2.58e4		2.46	2.48	10.9	10.3	103.2
3	3 PFBS	299.1 > 79.9	4.87e3	6.42e3		2.76	2.76	9.49	9.15	91.5
4	4 PFHxA	313.2 > 268.9	4.27e4	1.23e4		3.04	3.05	17.3	10.8	108.5
5	5 PFHpA	363.1 > 319.1	6.85e4	8.18e4		3.33	3.33	10.5	10.6	105.7
6	6 L-PFHxS	399.0 > 80.0	8.44e3	4.86e3		3.41	3.41	21.7	9.08	90.8
7	8 6:2 FTS	427.1 > 407	6.45e3	7.06e3		3.54	3.54	11.4	9.45	94.5
8	9 L-PFOA	413 > 368.7	5.31e4	6.32e4		3.54	3.55	10.5	10.1	101.0
9	11 PFHpS	449 > 79.9	8.60e3	6.32e4		3.60	3.60	1.70	9.38	93.8
10	12 PFNA	463.1 > 419.1	5.64e4	6.04e4		3.72	3.72	11.7	10.4	104.2
11	13 PFOSA	498.1 > 77.8	2.81e4	3.14e4		4.75	4.75	11.2	10.4	104.4
12	14 L-PFOS	499 > 79.9	1.01e4	1.18e4		3.77	3.77	10.7	9.28	92.8
13	16 PFDA	513 > 468.8	6.32e4	5.18e4		3.89	3.89	15.2	10.8	108.0
14	17 8:2 FTS	527 > 506.9	6.35e3	5.47e3		3.88	3.88	14.5	9.59	95.9
15	18 N-MeFOSAA	570.1 > 419	7.65e3	5.39e3		3.92	3.93	231	11.0	109.7
16	19 N-EtFOSAA	584.2 > 419	6.14e3	6.28e3		3.99	4.00	159	9.57	95.7
17	20 PFUnA	562.9 > 518.9	3.07e4	6.35e4		4.04	4.04	6.04	10.2	101.9
18	21 PFDS	598.9 > 80	9.62e3	6.35e4		4.08	4.08	1.89	9.73	97.3
19	22 PFDoA	613.0 > 569.1	6.21e4	6.53e4		4.19	4.19	11.9	9.81	98.1
20	24 PFTrDA	662.9 > 618.9	4.07e4	6.53e4		4.34	4.34	7.79	11.0	110.3
21	25 PFTeDA	712.9 > 668.8	2.19e4	2.37e4		4.49	4.50	11.6	10.3	102.9
22	26 N-EtFOSA	526.1 > 168.9		1.34e5		5.73				
23	27 PFHxDA	812.8 > 768.9		1.58e4		4.83				
24	28 PFODA	912.8 > 868.8		1.58e4		5.18				
25	29 N-MeFOSE	616.1 > 58.9		3.03e5		5.43				
26	30 N-EtFOSE	630.1 > 58.9		2.82e5		5.60				
27	31 13C3-PFBA	216.1 > 172.1	1.38e4	1.52e4	0.860	1.27	1.26	11.3	13.2	105.3
28	32 13C3-PFPeA	266.1 > 222.1	2.58e4	4.30e4	0.227	2.46	2.48	3.01	13.2	105.9
29	33 13C3-PFBS	302.1 > 79.9	6.42e3	4.30e4	0.056	2.76	2.76	0.747	13.4	107.2
30	34 13C2-PFHxA	315 > 269.8	1.23e4	4.30e4	0.279	3.04	3.05	1.43	5.14	102.9
31	35 13C1-PFHxA	367 > 322.1	8.18e4	4.30e4	0.719	3.33	3.33	9.53	13.3	106.1

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

Last Altered: Friday, September 29, 2017 10:06:08 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:07:17 Pacific Daylight Time

Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	36 18O2-PFHxS	403 > 103.0	4.86e3	9.98e3	0.477	3.41	3.41	6.09	12.8	102.1
33	37 13C2-6:2 FTS	429.1 > 408.9	7.06e3	5.12e4	0.129	3.54	3.54	1.72	13.3	106.4
34	38 13C2-PFOA	414.9 > 369.7	6.32e4	5.12e4	1.167	3.54	3.54	15.4	13.2	105.7
35	39 13C5-PFNA	468.1 > 423.1	6.04e4	6.55e4	0.856	3.72	3.72	11.5	13.5	107.8
36	40 13C8-PFOSA	506.1 > 78.0	3.14e4	6.58e4	0.467	4.75	4.75	5.97	12.8	102.4
37	41 13C8-PFOS	507 > 79.9	1.18e4	1.11e4	0.983	3.77	3.78	13.3	13.5	108.0
38	42 13C2-PFDA	515.1 > 469.9	5.18e4	5.76e4	0.859	3.89	3.89	11.2	13.1	104.7
39	43 13C2-8:2 FTS	529.1 > 508.7	5.47e3	5.76e4	0.091	3.88	3.88	1.19	13.0	103.7
40	44 d3-N-MeFOSAA	573.3 > 419	5.39e3	6.58e4	0.007	3.92	3.93	1.02	157	96.6
41	45 d5-N-EtFOSAA	589.3 > 419	6.28e3	6.58e4	0.007	3.99	4.00	1.19	168	103.2
42	46 13C2-PFUnA	565 > 519.8	6.35e4	6.58e4	0.938	4.04	4.04	12.1	12.9	102.9
43	47 13C2-PFDoA	615.1 > 570.1	6.53e4	6.58e4	0.966	4.19	4.19	12.4	12.8	102.8

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Dataset: U:\Q4.PRO\results\170928M3\170928M3-13.qld

Last Altered: Friday, September 29, 2017 10:06:08 Pacific Daylight Time

Printed: Friday, September 29, 2017 10:07:31 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_9-29-17.mdb 29 Sep 2017 08:42:48

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_9-28-17-FULL_NO_MEFOSA.cdb 29 Sep 2017 09:33:54

Name: 170928M3_13, Date: 28-Sep-2017, Time: 19:52:37, ID: ICV170928M3-1 PFC ICV 1712808, Description: PFC ICV 1712808

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	49 13C2-PFTeDA	714.8 > 669.6	2.37e4	6.58e4	0.362	4.49	4.50	4.49	12.4	99.2
2	50 d5-N-ETFOSA	531.1 > 168.9	1.34e5	6.58e4	0.169	5.73	5.73	25.6	151	100.8
3	51 13C2-PFHxDA	815 > 769.7	1.58e4	6.58e4	0.596	4.83	4.84	3.00	5.04	100.8
4	52 d7-N-MeFOSE	623.1 > 58.9	3.03e5	6.58e4	0.379	5.43	5.42	57.5	152	101.0
5	53 d9-N-EtFOSE	639.2 > 58.8	2.82e5	6.58e4	0.351	5.60	5.60	53.7	153	101.8
6	54 13C4-PFBA	217.1 > 172.1	1.52e4	1.52e4	1.000	1.27	1.26	12.5	12.5	100.0
7	55 13C5-PFHxA	318 > 272.9	4.30e4	4.30e4	1.000	3.04	3.05	5.00	5.00	100.0
8	56 13C3-PFHxS	402.1 > 80.0	9.98e3	9.98e3	1.000	3.41	3.41	12.5	12.5	100.0
9	57 13C8-PFOA	421.3 > 376	5.12e4	5.12e4	1.000	3.54	3.54	12.5	12.5	100.0
10	58 13C9-PFNA	472.1 > 427.1	6.55e4	6.55e4	1.000	3.72	3.72	12.5	12.5	100.0
11	59 13C4-PFOS	503 > 79.9	1.11e4	1.11e4	1.000	3.77	3.78	12.5	12.5	100.0
12	60 13C6-PFDA	519.1 > 473.7	5.76e4	5.76e4	1.000	3.89	3.89	12.5	12.5	100.0
13	61 13C7-PFUnA	570.1 > 524.8	6.58e4	6.58e4	1.000	4.04	4.04	12.5	12.5	100.0

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Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
 Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04
 Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Compound name: PFBA

Correlation coefficient: $r = 0.999442$, $r^2 = 0.998885$

Calibration curve: $0.752416 * x + -0.0350362$

Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	1.76	518.946	36306.508	0.179	bb	0.284	13.6
2	2 170928G1_3	Standard	0.500	1.76	850.587	31827.455	0.334	bd	0.491	-1.9
3	3 170928G1_4	Standard	1.000	1.76	2028.009	35764.625	0.709	bb	0.989	-1.1
4	4 170928G1_5	Standard	2.000	1.76	4045.821	33534.695	1.508	bb	2.051	2.5
5	5 170928G1_6	Standard	5.000	1.76	9089.055	33953.285	3.346	bb	4.494	-10.1
6	6 170928G1_7	Standard	10.000	1.77	22161.043	39364.039	7.037	bb	9.399	-6.0
7	7 170928G1_8	Standard	50.000	1.76	94532.172	30249.482	39.064	bb	51.964	3.9
8	8 170928G1_9	Standard	100.000	1.76	166288.641	27895.756	74.513	bb	99.079	-0.9

YJA 9/28/17
YJA 9/28/2017

Compound name: PFPeA

Correlation coefficient: $r = 0.998183$, $r^2 = 0.996370$

Calibration curve: $1.22015 * x + 0.0103311$

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	2.69	362.114	13142.144	0.344	MM	0.274	9.5
2	2 170928G1_3	Standard	0.500	2.70	517.413	11598.818	0.558	bb	0.449	-10.3
3	3 170928G1_4	Standard	1.000	2.70	1325.879	12441.682	1.332	bb	1.083	8.3
4	4 170928G1_5	Standard	2.000	2.70	2381.511	12296.446	2.421	bb	1.976	-1.2
5	5 170928G1_6	Standard	5.000	2.70	5799.194	12395.860	5.848	bb	4.784	-4.3
6	6 170928G1_7	Standard	10.000	2.70	12697.274	14025.483	11.316	bb	9.266	-7.3
7	7 170928G1_8	Standard	50.000	2.70	52570.941	9899.656	66.380	bb	54.394	8.8
8	8 170928G1_9	Standard	100.000	2.70	92606.148	9827.918	117.785	bb	96.524	-3.5

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.998937$, $r^2 = 0.997875$

Calibration curve: $1.66907 * x + 0.0374156$

Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	2.97	199.932	5621.776	0.445 bb	0.244	-2.4
2	2 170928G1_3	Standard	0.500	2.97	394.311	5232.053	0.942 bb	0.542	8.4
3	3 170928G1_4	Standard	1.000	2.97	782.258	6066.709	1.612 bb	0.943	-5.7
4	4 170928G1_5	Standard	2.000	2.97	1556.961	5426.496	3.586 bb	2.126	6.3
5	5 170928G1_6	Standard	5.000	2.97	3944.631	5971.027	8.258 bb	4.925	-1.5
6	6 170928G1_7	Standard	10.000	2.97	8523.288	7005.563	15.208 bb	9.089	-9.1
7	7 170928G1_8	Standard	50.000	2.97	36526.934	5148.696	88.680 bb	53.109	6.2
8	8 170928G1_9	Standard	100.000	2.97	62562.453	4791.130	163.225 bb	97.771	-2.2

Compound name: PFHxA

Correlation coefficient: $r = 0.999154$, $r^2 = 0.998308$

Calibration curve: $1.95382 * x + 0.264308$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	3.34	539.175	9502.786	0.709 bb	0.228	-8.9
2	2 170928G1_3	Standard	0.500	3.34	732.696	8356.991	1.096 bb	0.426	-14.9
3	3 170928G1_4	Standard	1.000	3.34	1989.069	10244.760	2.427 bb	1.107	10.7
4	4 170928G1_5	Standard	2.000	3.34	3049.121	8872.411	4.296 bb	2.063	3.2
5	5 170928G1_6	Standard	5.000	3.34	8063.356	9643.653	10.452 bb	5.214	4.3
6	6 170928G1_7	Standard	10.000	3.34	16704.926	10159.572	20.553 bb	10.384	3.8
7	7 170928G1_8	Standard	50.000	3.34	67288.648	8182.444	102.794 bb	52.477	5.0
8	8 170928G1_9	Standard	100.000	3.34	116597.742	7691.349	189.495 bb	96.852	-3.1

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
 Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

Compound name: PFHpA

Correlation coefficient: $r = 0.997028$, $r^2 = 0.994064$

Calibration curve: $2.34266 * x + 0.118863$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	3.85	688.414	9987.401	0.862 bb	0.317	26.8
2	2 170928G1_3	Standard	0.500	3.85	830.849	10502.454	0.989 bb	0.371	-25.7
3	3 170928G1_4	Standard	1.000	3.85	2373.862	11406.787	2.601 bb	1.060	6.0
4	4 170928G1_5	Standard	2.000	3.85	3989.447	10811.219	4.613 bb	1.918	-4.1
5	5 170928G1_6	Standard	5.000	3.86	10029.233	11600.664	10.807 bb	4.562	-8.8
6	6 170928G1_7	Standard	10.000	3.85	23459.125	12493.274	23.472 bb	9.969	-0.3
7	7 170928G1_8	Standard	50.000	3.85	97715.188	9379.144	130.229 bb	55.540	11.1
8	8 170928G1_9	Standard	100.000	3.85	164948.438	9258.335	222.703 bb	95.013	-5.0

Compound name: PFHxS

Correlation coefficient: $r = 0.999122$, $r^2 = 0.998245$

Calibration curve: $1.91031 * x + 0.0278037$

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	3.97	234.421	4946.660	0.592 MM	0.296	18.2
2	2 170928G1_3	Standard	0.500	3.97	380.241	4935.000	0.963 MM	0.490	-2.1
3	3 170928G1_4	Standard	1.000	3.97	833.535	5500.577	1.894 MM	0.977	-2.3
4	4 170928G1_5	Standard	2.000	3.97	1593.922	5077.487	3.924 MM	2.040	2.0
5	5 170928G1_6	Standard	5.000	3.98	3679.223	5353.910	8.590 MM	4.482	-10.4
6	6 170928G1_7	Standard	10.000	3.98	8536.340	6149.478	17.352 MM	9.069	-9.3
7	7 170928G1_8	Standard	50.000	3.98	38607.527	4814.477	100.238 MM	52.457	4.9
8	8 170928G1_9	Standard	100.000	3.98	73926.852	4888.452	189.034 MM	98.940	-1.1

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

Compound name: PFOA

Correlation coefficient: $r = 0.998981$, $r^2 = 0.997963$

Calibration curve: $0.932697 * x + 0.337184$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.25	1146.993	23294.650	0.615	bb	0.298	19.4
2	2 170928G1_3	Standard	0.500	4.26	1244.732	20977.398	0.742	bb	0.434	-13.3
3	3 170928G1_4	Standard	1.000	4.26	2433.848	24625.984	1.235	bb	0.963	-3.7
4	4 170928G1_5	Standard	2.000	4.26	4011.395	22606.363	2.218	bb	2.017	0.8
5	5 170928G1_6	Standard	5.000	4.26	8371.810	22801.326	4.590	bb	4.559	-8.8
6	6 170928G1_7	Standard	10.000	4.26	19462.170	24629.186	9.878	bb	10.229	2.3
7	7 170928G1_8	Standard	50.000	4.26	84352.891	21166.590	49.815	bb	53.048	6.1
8	8 170928G1_9	Standard	100.000	4.26	151850.594	20859.199	90.997	bb	97.202	-2.8

Compound name: PFNA

Correlation coefficient: $r = 0.996068$, $r^2 = 0.992152$

Calibration curve: $2.74299 * x + 0.03889$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.60	459.347	6648.645	0.864	bb	0.301	20.3
2	2 170928G1_3	Standard	0.500	4.60	603.594	6758.418	1.116	bb	0.393	-21.4
3	3 170928G1_4	Standard	1.000	4.60	1728.765	7177.854	3.011	bb	1.083	8.3
4	4 170928G1_5	Standard	2.000	4.60	3082.063	6946.593	5.546	bb	2.008	0.4
5	5 170928G1_6	Standard	5.000	4.60	7970.080	7450.837	13.371	bb	4.860	-2.8
6	6 170928G1_7	Standard	10.000	4.60	14738.961	7664.314	24.038	bb	8.749	-12.5
7	7 170928G1_8	Standard	50.000	4.60	81970.086	6622.767	154.713	bb	56.389	12.8
8	8 170928G1_9	Standard	100.000	4.60	143144.266	6867.901	260.531	bb	94.967	-5.0

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time
 Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

Compound name: PFOS

Correlation coefficient: $r = 0.999141$, $r^2 = 0.998283$

Calibration curve: $0.496696 * x + 0.022331$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.67	42.462	6445.301	0.082	MMX	0.121	-51.7
2	2 170928G1_3	Standard	0.500	4.66	104.448	5579.573	0.234	MMX	0.426	-14.8
3	3 170928G1_4	Standard	1.000	4.67	385.081	7268.540	0.662	MM	1.288	28.8
4	4 170928G1_5	Standard	2.000	4.67	435.353	6058.987	0.898	MM	1.763	-11.8
5	5 170928G1_6	Standard	5.000	4.67	1138.989	6741.988	2.112	MM	4.207	-15.9
6	6 170928G1_7	Standard	10.000	4.67	2578.894	6647.552	4.849	MM	9.718	-2.8
7	7 170928G1_8	Standard	50.000	4.67	15176.708	7532.108	25.187	MM	50.664	1.3
8	8 170928G1_9	Standard	100.000	4.67	30375.549	7613.575	49.871	MM	100.360	0.4

Ⓐ Points were excluded.
 for 9/28/17

Compound name: PFDA

Correlation coefficient: $r = 0.998370$, $r^2 = 0.996743$

Calibration curve: $0.202338 * x + 0.0245746$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Prima...	Conc.	%Dev
1	1 170928G1_2	Standard	0.250	4.90	61.547	9898.450	0.078	bb	0.263	5.1
2	2 170928G1_3	Standard	0.500	4.90	75.895	8967.027	0.106	bb	0.401	-19.7
3	3 170928G1_4	Standard	1.000	4.90	236.681	11871.896	0.249	bb	1.110	11.0
4	4 170928G1_5	Standard	2.000	4.90	344.787	9828.354	0.439	bb	2.046	2.3
5	5 170928G1_6	Standard	5.000	4.91	941.588	10858.199	1.084	bb	5.236	4.7
6	6 170928G1_7	Standard	10.000	4.90	1553.174	10264.235	1.891	bb	9.227	-7.7
7	7 170928G1_8	Standard	50.000	4.90	11513.903	13168.659	10.929	bb	53.893	7.8
8	8 170928G1_9	Standard	100.000	4.90	23330.324	14905.509	19.565	bb	96.574	-3.4

Dataset: Untitled

Last Altered: Thursday, September 28, 2017 11:04:42 Pacific Daylight Time

Printed: Thursday, September 28, 2017 11:11:15 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170928G1_1	IPA	28-Sep-17	08:24:44
2	170928G1_2	ST170928G1-1 PFC CS-2 17I2622	28-Sep-17	08:37:06
3	170928G1_3	ST170928G1-2 PFC CS-1 17I2623	28-Sep-17	08:49:33
4	170928G1_4	ST170928G1-3 PFC CS0 17I2624	28-Sep-17	09:02:05
5	170928G1_5	ST170928G1-4 PFC CS1 17I2625	28-Sep-17	09:14:38
6	170928G1_6	ST170928G1-5 PFC CS2 17I2626	28-Sep-17	09:27:12
7	170928G1_7	ST170928G1-6 PFC CS3 17I2627	28-Sep-17	09:39:45
8	170928G1_8	ST170928G1-7 PFC CS4 17I2628	28-Sep-17	09:52:18
9	170928G1_9	ST170928G1-8 PFC CS5 17I2629	28-Sep-17	10:04:52
10	170928G1_10	ST170928G1-9 PFC CS6 17I2630	28-Sep-17	10:17:33
11	170928G1_11	IPA	28-Sep-17	10:30:00
12	170928G1_12	ICV170928G1-1 PFC ICV 15I2621	28-Sep-17	10:42:35
13	170928G1_13	IPA	28-Sep-17	10:55:07

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-12.qld

Last Altered: Thursday, September 28, 2017 11:13:06 Pacific Daylight Time

Printed: Thursday, September 28, 2017 11:14:17 Pacific Daylight Time

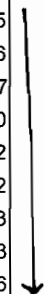
Method: U:\G1.PRO\MethDB\PFAS_14or16_2trans_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_9-28-17_A_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

#	Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.76	19187.545	30955.201	7.748	10.3	103.4
2	2 PFPeA	263.0 > 218.8	2.70	10994.386	11422.194	12.032	9.9	98.5
3	3 PFBS	299.0 > 79.7	2.97	6753.990	5825.995	14.491	8.7	86.6
4	4 PFHxA	312.9 > 268.9	3.34	15664.068	8347.843	23.455	11.9	118.7
5	5 PFHpA	363 > 318.9	3.85	20370.268	11263.204	22.607	9.6	96.0
6	6 PFHxS	398.9 > 79.6	3.98	7151.468	4858.209	18.400	9.6	96.2
7	7 PFOA	413.0 > 368.7	4.26	16672.262	23090.801	9.025	9.3	93.2
8	8 PFNA	463.0 > 418.8	4.60	14530.189	7317.948	24.819	9.0	90.3
9	9 PFOS	499.0 > 79.9	4.67	2497.793	7781.154	4.013	8.0	80.3
10	10 PFDA	512.7 > 219.0	4.91	2147.431	13030.051	2.060	10.1	100.6
11	11 13C3-PFBA	215.9 > 171.8	1.76	30955.201	22957.758	16.854	12.3	98.2
12	12 13C3-PFBS	302.0 > 98.8	2.97	5825.995	21884.443	3.328	14.1	112.9
13	13 13C3-PFPeA	266.0 > 221.8	2.70	11422.194	21884.443	6.524	13.1	104.8
14	14 13C2-PFHxA	315.0 > 269.8	3.34	8347.843	21884.443	4.768	12.6	100.7
15	15 13C4-PFHpA	367.2 > 321.8	3.85	11263.204	21884.443	6.433	14.4	115.2
16	16 18O2-PFHxS	403 > 102.6	3.97	4858.209	12384.241	4.904	11.2	89.9
17	17 13C2-PFOA	414.9 > 369.7	4.26	23090.801	6179.977	46.705	12.6	100.6
18	18 13C5-PFNA	468.2 > 422.9	4.60	7317.948	7736.490	11.824	13.3	106.8
19	19 13C2-PFDA	514.8 > 469.7	4.90	13030.051	6044.949	26.944	13.9	111.4
20	20 13C8-PFOS	507.0 > 79.9	4.67	7781.154	8073.254	12.048	12.8	102.2
21	21 13C4-PFBA	216.9 > 171.8	1.76	22957.758	22957.758	12.500	12.5	100.0
22	22 13C5-PFHxA	318 > 272.9	3.34	21884.443	21884.443	12.500	12.5	100.0
23	23 13C3-PFHxS	401.9 > 79.9	3.97	12384.241	12384.241	12.500	12.5	100.0
24	24 13C8-PFOA	421.3 > 376	4.26	6179.977	6179.977	12.500	12.5	100.0
25	25 13C9-PFNA	472.2 > 426.9	4.60	7736.490	7736.490	12.500	12.5	100.0
26	26 13C4-PFOS	503.0 > 79.9	4.67	8073.254	8073.254	12.500	12.5	100.0
27	27 13C6-PFDA	519.10 > 473.70	4.90	6044.949	6044.949	12.500	12.5	100.0
28	28 Total PFHxS	398.9 > 79.6		7151.468	4858.209	18.400	9.6	
29	29 Total PFOA	413.0 > 368.7		33344.524	23090.801	18.051	18.6	
30	30 Total PFOS	499.0 > 79.9		2497.793	7781.154	4.013	8.0	

70-130



See 9/28/17
VJA
9/28/2017

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	SPRING-GR	Surface water body - nonspecific	404660.5878	523327.6676	N6247016D9008	WE08	TETRA TECH, INC.	SPRING-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	INTERCEPTOR	Surface water body - nonspecific	404609.6716	523022.6633	N6247016D9008	WE08	TETRA TECH, INC.	INTERCEPTOR SUMP-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	ROOF_DRAIN	Surface water body - nonspecific	404602.0716	523079.4275	N6247016D9008	WE08	TETRA TECH, INC.	ROOF_DRAIN-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-117T	Manhole/Catch basin	405494.71	522515.54	N6247016D9008	WE08	TETRA TECH, INC.	MH-117T-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-140	Monitoring well			N6247016D9008	WE08	TETRA TECH, INC.	MH-140 N-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-117N	Manhole/Catch basin	405494.71	522515.54	N6247016D9008	WE08	TETRA TECH, INC.	MH-117N-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-118.5T	Manhole/Catch basin	405326.26	522550.06	N6247016D9008	WE08	TETRA TECH, INC.	MH-118.5T-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	INTERCEPTOR	Surface water body - nonspecific	404609.6716	523022.6633	N6247016D9008	WE08	TETRA TECH, INC.	INTERCEPTOR SUMP-20170918-D	Surface water	Field duplicate	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-121.5N	Manhole/Catch basin	405036.34	522613.5	N6247016D9008	WE08	TETRA TECH, INC.	MH-121.5N-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-118.5N	Manhole/Catch basin	405326.26	522550.06	N6247016D9008	WE08	TETRA TECH, INC.	MH-118.5N-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-121.5T	Manhole/Catch basin	405036.34	522613.5	N6247016D9008	WE08	TETRA TECH, INC.	MH-121.5T-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	WEST_DITCH_IN	Surface water body - nonspecific	404524.5536	522750.5773	N6247016D9008	WE08	TETRA TECH, INC.	WEST_DITCH_IN-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	WEST_DITCH_IN	Surface water body - nonspecific	404524.5536	522750.5773	N6247016D9008	WE08	TETRA TECH, INC.	WEST_DITCH_IN-20170918-D	Surface water	Field duplicate	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279							N6247016D9008	WE08	TETRA TECH, INC.	FRB01-20170918	Water for QC samples	Field Reagent Blank	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	GR-OF	Outfall	406945.1	521719.82	N6247016D9008	WE08	TETRA TECH, INC.	GR-OF-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	TRENTON_NAWC	1701279	EBS PHASE2	EBS PHASE2	MH-140	Monitoring well			N6247016D9008	WE08	TETRA TECH, INC.	MH-140 BOTTOM-20170918	Surface water	Normal (Regular)	18-Sep-17	537	Perfluoroalkyl Compounds