



**Groundwater Sample Results,  
Level 2 Laboratory Report, Level 4 Laboratory Report,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Report, SDG 1701277**

*Naval Air Station Oceana  
Virginia Beach, Virginia*

July 2019

October 04, 2017

**Vista Work Order No. 1701277**

Ms. Tiffany Hill  
CH2M Hill  
1100 NE Circle Blvd. Suite 300  
Corvallis, OR 97330

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on September 21, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'CTO-WE14'.

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](mailto:mmaier@vista-analytical.com).

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

Sincerely,

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.*

## Vista Work Order No. 1701277

### Case Narrative

#### Sample Condition on Receipt:

Eight 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 following samples contained particulate and were centrifuged prior to extraction:

<u>Laboratory ID</u>	<u>Sample Name</u>
1701277-01	OW2E-MW09R-0917
1701277-02	OW2C-MW05-0917
1701277-03	OW2C-MW05P-0917
1701277-04	OW2C-MW25-0917
1701277-05	OW2C-MW19-0917
1701277-06	OW2C-MW24-0917

The samples were extracted and analyzed for a selected list of PFAS using Modified EPA Method 537. Sample "OW2C-MW25-0917" was re-extracted using a smaller volume due to the high concentrations.

##### 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 extracts were re-injected due to retention time shifting. The results from the re-injections have been reported.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

As requested, an MS/MSD was performed on sample "OW2C-MW24-0917". The MS/MSD recoveries and/or RPDs were out of the criteria for PFOA and PFOS.

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701277-01	OW2E-MW09R-0917	19-Sep-17 09:00	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-02	OW2C-MW05-0917	19-Sep-17 10:05	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-03	OW2C-MW05P-0917	19-Sep-17 10:10	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-04	OW2C-MW25-0917	19-Sep-17 11:30	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-05	OW2C-MW19-0917	19-Sep-17 12:45	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-06	OW2C-MW24-0917	MS/MSD19-Sep-17 14:45	21-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
1701277-07	OW2C-EB-0917	19-Sep-17 15:30	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-08	OW2C-FB-0917	19-Sep-17 12:15	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

## **ANALYTICAL RESULTS**

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

<b>Client Data</b>					<b>Laboratory Data</b>					
Name:	CH2M Hill	Matrix:	Aqueous		Lab Sample:	B7I0112-BLK1	Column:	BEH C18		
Project:	CTO-WE14									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.79	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFHpA	ND	0.591	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFHxS	ND	0.947	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFOA	1.42	0.651	5.00	8.00	J	B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFOS	ND	0.807	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFNA	ND	0.810	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	76.7	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C4-PFHpA	IS	76.7	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
18O2-PFHxS	IS	101	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C2-PFOA	IS	109	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C8-PFOS	IS	100	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C5-PFNA	IS	69.6	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	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:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7I0112-BS1	Column:	BEH C18
Project:	CTO-WE14						

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	58.4	80.0	73.0	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFHpA	84.8	80.0	106	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFHxS	75.5	80.0	94.4	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFOA	62.0	80.0	77.5	70-130	B	B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFOS	76.2	80.0	95.2	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFNA	87.5	80.0	109	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	68.3	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C4-PFHpA	IS	73.6	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
18O2-PFHxS	IS	96.5	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C2-PFOA	IS	114	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C8-PFOS	IS	86.8	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C5-PFNA	IS	75.7	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1



Sample ID: Method Blank					Modified EPA Method 537					
Client Data				Laboratory Data						
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7I0147-BLK1	Column:	BEH C18			
Project:	CTO-WE14									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFOS	ND	0.807	5.00	8.00		B7I0147	27-Sep-17	0.125 L	29-Sep-17 14:38	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C8-PFOS	IS	101	50 - 150		B7I0147	27-Sep-17	0.125 L	29-Sep-17 14:38	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: OPR				Modified EPA Method 537						
Client Data				Laboratory Data						
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7I0147-BS1	Column:	BEH C18			
Project:	CTO-WE14									
Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFOS	164	160	102	70-130		B7I0147	27-Sep-17	0.125 L	29-Sep-17 13:56	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C8-PFOS	IS		97.1	50- 150		B7I0147	27-Sep-17	0.125 L	29-Sep-17 13:56	1

**Sample ID: OW2E-MW09R-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-01	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 09:00	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	39.0	1.88	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFHpA	30.1	0.622	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFHxS	384	0.996	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFOA	136	0.685	5.25	8.42	B	B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFOS	95.4	0.849	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFNA	3.17	0.852	5.25	8.42	J	B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	134	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C4-PFHpA	IS	116	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
18O2-PFHxS	IS	120	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C2-PFOA	IS	74.3	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C8-PFOS	IS	96.5	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C5-PFNA	IS	101	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	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: OW2C-MW05-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-02	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 10:05	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	17.5	1.91	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFHpA	45.4	0.630	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFHxS	115	1.01	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFOA	70.7	0.693	5.34	8.52	B	B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFOS	221	0.860	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFNA	60.3	0.863	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	144	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C4-PFHpA	IS	120	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
18O2-PFHxS	IS	104	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C2-PFOA	IS	83.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C8-PFOS	IS	106	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C5-PFNA	IS	108	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	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: OW2C-MW05P-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-03	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 10:10	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	20.1	2.15	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFHpA	46.9	0.709	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFHxS	108	1.14	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFOA	67.2	0.781	6.01	9.60	B	B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFOS	227	0.968	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFNA	69.3	0.972	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	136	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C4-PFHpA	IS	116	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
18O2-PFHxS	IS	105	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C2-PFOA	IS	87.7	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C8-PFOS	IS	100	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C5-PFNA	IS	98.0	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	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: OW2C-MW25-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-04	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 11:30	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	102	21.9	61.3	98.0	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
PFHpA	342	0.724	6.13	9.80		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
PFHxS	2520	11.6	61.3	98.0	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
PFOA	829	0.797	6.13	9.80	B	B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
PFOS	29500	97.0	601	962		B7I0147	27-Sep-17	0.00104 L	29-Sep-17 16:15	1
PFNA	122	0.992	6.13	9.80		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	134	50 - 150	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
13C4-PFHpA	IS	143	50 - 150		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
18O2-PFHxS	IS	139	50 - 150	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
13C2-PFOA	IS	84.0	50 - 150		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
13C8-PFOS	IS	98.1	50 - 150		B7I0147	27-Sep-17	0.00104 L	29-Sep-17 16:15	1
13C5-PFNA	IS	94.8	50 - 150		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	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: OW2C-MW19-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-05	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 12:45	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	74.3	2.08	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFHpA	49.9	0.686	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFHxS	381	1.10	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFOA	234	0.755	5.79	9.28	B	B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFOS	790	0.936	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFNA	59.8	0.940	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	134	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C4-PFHpA	IS	113	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
18O2-PFHxS	IS	101	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C2-PFOA	IS	75.8	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C8-PFOS	IS	111	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C5-PFNA	IS	93.3	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	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: OW2C-MW24-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-06	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 14:45	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	14.9	2.04	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFHpA	36.7	0.675	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFHxS	88.4	1.08	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFOA	1520	0.744	5.73	9.14	B	B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFOS	91.3	0.922	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFNA	5.63	0.925	5.73	9.14	J	B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	140	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C4-PFHpA	IS	121	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
18O2-PFHxS	IS	104	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C2-PFOA	IS	79.6	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C8-PFOS	IS	101	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C5-PFNA	IS	95.9	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	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: OW2C-MW24-0917**

**Modified EPA Method 537**

Name:	CH2M Hill	Lab Sample:	B7I0112-MS1/B7I0112-MSD1	Source Lab Sample:	1701277-06
Project:	CTO-WE14	QC Batch:	B7I0112	Date Extracted:	22-Sep-17
Matrix:	Aqueous	Samp Size:	0.117/0.115 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	MSD RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	14.9	100	85.4	99.7		102	86.8	101	1.30		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFHpA	36.7	116	85.4	93.3		118	86.8	94.0	0.747		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFHxS	88.4	171	85.4	96.9		174	86.8	99.1	2.24		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFOA	1520	1510	85.4	-5.86	B, H	1800	86.8	328	207	B, H	70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFOS	91.3	152	85.4	71.0		172	86.8	92.6	26.4	H	70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFNA	5.63	79.9	85.4	87.0		87.9	86.8	94.8	8.58		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	137		126		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C4-PFHpA	IS	121		114		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
18O2-PFHxS	IS	106		99.7		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C2-PFOA	IS	84.2		82.2		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C8-PFOS	IS	102		93.5		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C5-PFNA	IS	99.9		96.1		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1

**Sample ID: OW2C-EB-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-07	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 15:30	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFHpA	ND	0.632	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFHxS	ND	1.01	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFOA	ND	0.696	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFOS	ND	0.863	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFNA	ND	0.866	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	142	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C4-PFHpA	IS	113	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
18O2-PFHxS	IS	99.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C2-PFOA	IS	75.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C8-PFOS	IS	95.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C5-PFNA	IS	82.5	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	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: OW2C-FB-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-08	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 12:15	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFHpA	ND	0.630	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFHxS	ND	1.01	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFOA	ND	0.694	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFOS	ND	0.860	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFNA	ND	0.863	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	137	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C4-PFHpA	IS	108	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
18O2-PFHxS	IS	112	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C2-PFOA	IS	76.7	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C8-PFOS	IS	110	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C5-PFNA	IS	86.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	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.

## **DATA QUALIFIERS & ABBREVIATIONS**

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

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

## CERTIFICATIONS

<b>Accrediting Authority</b>	<b>Certificate Number</b>
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

**For Laboratory Use Only**  
 Laboratory Project ID: 1701277 Temp: 0.1 °C  
 Storage ID: WR-2 Storage Secured: Yes  No

Project ID: CTO WEH PO#: 10006-7-105690 Sampler: R. McELHINNY  
 (name)

TAT Standard:  21 days  
 (check one): Rush (surcharge may apply)  
 14 days  7 days Specify: \_\_\_\_\_

Invoice to: Name TIFFANY HILL Company CH2M Address 5701 CLEVELAND ST City VIRGINIA BEACH VA State VA Ph# 541-908-3794 Fax# \_\_\_\_\_

Relinquished by (printed name and signature) R. McELHINNY Date 9-19-2017 Time 1600 Received by (printed name and signature) Sydney Roughton Date 09/20/17 Time 0954

SHIP TO: Vista Analytical Laboratory  
 1104 Windfield Way  
 El Dorado Hills, CA 95762  
 (916) 673-1520 \* Fax (916) 673-0106  
 ATTN: MARTHA MAIER  
 Method of Shipment: FEDEX  
 Tracking No.: \_\_\_\_\_

Add Analysis(es) Requested			Container(s)															Comments	
Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29		Mod. EPA 537

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29	Mod. EPA 537	Unmodified 537	Comments		
<u>OW2E-MW09R-0917</u>	<u>9-19-17</u>	<u>0900</u>		<u>2</u>	<u>P</u>	<u>AQ</u>														<u>2</u>			
<u>OW2C-MW05-0917</u>	<u>9-19-17</u>	<u>1005</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		
<u>OW2C-MW05P-0917</u>	<u>9-19-17</u>	<u>1010</u>		<u>2</u>	<u>P</u>	<u>AQ</u>															<u>2</u>		
<u>OW2C-MW25-0917</u>	<u>9-19-17</u>	<u>1130</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		
<u>OW2C-MW19-0917</u>	<u>9-19-17</u>	<u>1245</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		
<u>OW2C-MW24-0917-MS</u>	<u>9-19-17</u>	<u>1445</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		
<u>OW2C-MW24-0917-MSD</u>	<u>9-19-17</u>	<u>1445</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		
<u>OW2C-MW24-0917</u>	<u>9-19-17</u>	<u>1445</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		
<u>OW2C-EB-091917</u>	<u>9-19-17</u>	<u>1530</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		
<u>OW2C-FB-091917</u>	<u>9-19-17</u>	<u>1215</u>		<u>2</u>	<u>P</u>	<u>AR</u>															<u>2</u>		

Special Instructions/Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SEND DOCUMENTATION AND RESULTS TO:**

Name: SAME AS ABOVE  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Container Types: P= HDPE, PJ= HDPE Jar O = Other: \_\_\_\_\_  
 Bottle Preservation Type: T = Thiosulfate, TZ = Trizma: \_\_\_\_\_  
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: \_\_\_\_\_



### Sample Log-in Checklist

Vista Work Order #: 1701277 TAT 14

Samples Arrival:	Date/Time <u>09/20/17 0907</u>	Initials: <u>SR</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>09/21/17 0508</u>	Initials: <u>MPB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>F7</u>
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:	<u>0.0</u> (uncorrected)	Time: <u>0953</u>	Thermometer ID: IR-1
Temp °C:	<u>0.1</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

		YES	NO	NA
Adequate Sample Volume Received?		<input checked="" type="checkbox"/>		
Holding Time Acceptable?		<input checked="" type="checkbox"/>		
Shipping Container(s) Intact?		<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?		<input checked="" type="checkbox"/>		
Shipping Documentation Present?		<input checked="" type="checkbox"/>		
Airbill	Trk # <u>7677 7319 2113</u>	<input checked="" type="checkbox"/>		
Sample Container Intact?		<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?				<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?		<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?				<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				<input checked="" type="checkbox"/>
Preservation Documented:	<input type="radio"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<input type="radio"/> Trizma	<input checked="" type="radio"/> None	<input type="radio"/> Yes
				<input checked="" type="radio"/> No
				<input type="radio"/> NA
Shipping Container	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input type="radio"/> Retain	<input type="radio"/> Return
				<input type="radio"/> Dispose

Comments:

October 04, 2017

**Vista Work Order No. 1701277**

Ms. Tiffany Hill  
CH2M Hill  
1100 NE Circle Blvd. Suite 300  
Corvallis, OR 97330

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on September 21, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'CTO-WE14'.

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](mailto:mmaier@vista-analytical.com).

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

Sincerely,

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.*

## Vista Work Order No. 1701277

### Case Narrative

#### Sample Condition on Receipt:

Eight 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 following samples contained particulate and were centrifuged prior to extraction:

<u>Laboratory ID</u>	<u>Sample Name</u>
1701277-01	OW2E-MW09R-0917
1701277-02	OW2C-MW05-0917
1701277-03	OW2C-MW05P-0917
1701277-04	OW2C-MW25-0917
1701277-05	OW2C-MW19-0917
1701277-06	OW2C-MW24-0917

The samples were extracted and analyzed for a selected list of PFAS using Modified EPA Method 537. Sample "OW2C-MW25-0917" was re-extracted using a smaller volume due to the high concentrations.

##### 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 extracts were re-injected due to retention time shifting. The results from the re-injections have been reported.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

As requested, an MS/MSD was performed on sample "OW2C-MW24-0917". The MS/MSD recoveries and/or RPDs were out of the criteria for PFOA and PFOS.

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701277-01	OW2E-MW09R-0917	19-Sep-17 09:00	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-02	OW2C-MW05-0917	19-Sep-17 10:05	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-03	OW2C-MW05P-0917	19-Sep-17 10:10	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-04	OW2C-MW25-0917	19-Sep-17 11:30	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-05	OW2C-MW19-0917	19-Sep-17 12:45	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-06	OW2C-MW24-0917	MS/MSD19-Sep-17 14:45	21-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
1701277-07	OW2C-EB-0917	19-Sep-17 15:30	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701277-08	OW2C-FB-0917	19-Sep-17 12:15	21-Sep-17 09:07	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

## **ANALYTICAL RESULTS**

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

<b>Client Data</b>				<b>Laboratory Data</b>							
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7I0112-BLK1	Column:	BEH C18				
Project:	CTO-WE14										

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.79	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFHpA	ND	0.591	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFHxS	ND	0.947	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFOA	1.42	0.651	5.00	8.00	J	B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFOS	ND	0.807	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
PFNA	ND	0.810	5.00	8.00		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	76.7	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C4-PFHpA	IS	76.7	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
18O2-PFHxS	IS	101	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C2-PFOA	IS	109	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C8-PFOS	IS	100	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	1
13C5-PFNA	IS	69.6	50 - 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:35	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:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7I0112-BS1	Column:	BEH C18
Project:	CTO-WE14						

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	58.4	80.0	73.0	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFHpA	84.8	80.0	106	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFHxS	75.5	80.0	94.4	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFOA	62.0	80.0	77.5	70-130	B	B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFOS	76.2	80.0	95.2	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
PFNA	87.5	80.0	109	70-130		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	68.3	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C4-PFHpA	IS	73.6	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
18O2-PFHxS	IS	96.5	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C2-PFOA	IS	114	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C8-PFOS	IS	86.8	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1
13C5-PFNA	IS	75.7	50- 150		B7I0112	22-Sep-17	0.125 L	25-Sep-17 18:10	1



<b>Sample ID: Method Blank</b>	<b>Modified EPA Method 537</b>
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<b>Client Data</b>	<b>Laboratory Data</b>
Name: CH2M Hill Project: CTO-WE14	Matrix: Aqueous Lab Sample: B7I0147-BLK1 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFOS	ND	0.807	5.00	8.00		B7I0147	27-Sep-17	0.125 L	29-Sep-17 14:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C8-PFOS	IS	101	50 - 150		B7I0147	27-Sep-17	0.125 L	29-Sep-17 14:38	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: OPR				Modified EPA Method 537						
Client Data				Laboratory Data						
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7I0147-BS1	Column:	BEH C18			
Project:	CTO-WE14									
Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFOS	164	160	102	70-130		B7I0147	27-Sep-17	0.125 L	29-Sep-17 13:56	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C8-PFOS	IS		97.1	50- 150		B7I0147	27-Sep-17	0.125 L	29-Sep-17 13:56	1

**Sample ID: OW2E-MW09R-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-01	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 09:00	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	39.0	1.88	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFHpA	30.1	0.622	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFHxS	384	0.996	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFOA	136	0.685	5.25	8.42	B	B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFOS	95.4	0.849	5.25	8.42		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFNA	3.17	0.852	5.25	8.42	J	B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	134	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C4-PFHpA	IS	116	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
18O2-PFHxS	IS	120	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C2-PFOA	IS	74.3	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C8-PFOS	IS	96.5	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C5-PFNA	IS	101	50 - 150		B7I0112	22-Sep-17	0.119 L	28-Sep-17 17:54	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: OW2C-MW05-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-02	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 10:05	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	17.5	1.91	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFHpA	45.4	0.630	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFHxS	115	1.01	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFOA	70.7	0.693	5.34	8.52	B	B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFOS	221	0.860	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFNA	60.3	0.863	5.34	8.52		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	144	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C4-PFHpA	IS	120	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
18O2-PFHxS	IS	104	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C2-PFOA	IS	83.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C8-PFOS	IS	106	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C5-PFNA	IS	108	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 18:06	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: OW2C-MW05P-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-03	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 10:10	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	20.1	2.15	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFHpA	46.9	0.709	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFHxS	108	1.14	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFOA	67.2	0.781	6.01	9.60	B	B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFOS	227	0.968	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFNA	69.3	0.972	6.01	9.60		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	136	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C4-PFHpA	IS	116	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
18O2-PFHxS	IS	105	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C2-PFOA	IS	87.7	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C8-PFOS	IS	100	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C5-PFNA	IS	98.0	50 - 150		B7I0112	22-Sep-17	0.104 L	28-Sep-17 18:19	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: OW2C-MW25-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-04	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 11:30	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	102	21.9	61.3	98.0	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
PFHpA	342	0.724	6.13	9.80		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
PFHxS	2520	11.6	61.3	98.0	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
PFOA	829	0.797	6.13	9.80	B	B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
PFOS	29500	97.0	601	962		B7I0147	27-Sep-17	0.00104 L	29-Sep-17 16:15	1
PFNA	122	0.992	6.13	9.80		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	134	50 - 150	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
13C4-PFHpA	IS	143	50 - 150		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
18O2-PFHxS	IS	139	50 - 150	D	B7I0112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
13C2-PFOA	IS	84.0	50 - 150		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
13C8-PFOS	IS	98.1	50 - 150		B7I0147	27-Sep-17	0.00104 L	29-Sep-17 16:15	1
13C5-PFNA	IS	94.8	50 - 150		B7I0112	22-Sep-17	0.102 L	28-Sep-17 18:31	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: OW2C-MW19-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-05	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 12:45	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	74.3	2.08	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFHpA	49.9	0.686	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFHxS	381	1.10	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFOA	234	0.755	5.79	9.28	B	B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFOS	790	0.936	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
PFNA	59.8	0.940	5.79	9.28		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	134	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C4-PFHpA	IS	113	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
18O2-PFHxS	IS	101	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C2-PFOA	IS	75.8	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C8-PFOS	IS	111	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	1
13C5-PFNA	IS	93.3	50 - 150		B7I0112	22-Sep-17	0.108 L	28-Sep-17 18:56	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: OW2C-MW24-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-06	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 14:45	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	14.9	2.04	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFHpA	36.7	0.675	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFHxS	88.4	1.08	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFOA	1520	0.744	5.73	9.14	B	B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFOS	91.3	0.922	5.73	9.14		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFNA	5.63	0.925	5.73	9.14	J	B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	140	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C4-PFHpA	IS	121	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
18O2-PFHxS	IS	104	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C2-PFOA	IS	79.6	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C8-PFOS	IS	101	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C5-PFNA	IS	95.9	50 - 150		B7I0112	22-Sep-17	0.109 L	28-Sep-17 19:09	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: OW2C-MW24-0917**

**Modified EPA Method 537**

Name:	CH2M Hill	Lab Sample:	B7I0112-MS1/B7I0112-MSD1	Source Lab Sample:	1701277-06
Project:	CTO-WE14	QC Batch:	B7I0112	Date Extracted:	22-Sep-17
Matrix:	Aqueous	Samp Size:	0.117/0.115 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	MSD RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	14.9	100	85.4	99.7		102	86.8	101	1.30		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFHpA	36.7	116	85.4	93.3		118	86.8	94.0	0.747		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFHxS	88.4	171	85.4	96.9		174	86.8	99.1	2.24		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFOA	1520	1510	85.4	-5.86	B, H	1800	86.8	328	207	B, H	70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFOS	91.3	152	85.4	71.0		172	86.8	92.6	26.4	H	70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1
PFNA	5.63	79.9	85.4	87.0		87.9	86.8	94.8	8.58		70-130	25	28-Sep-17 19:34	1	28-Sep-17 19:47	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	137		126		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C4-PFHpA	IS	121		114		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
18O2-PFHxS	IS	106		99.7		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C2-PFOA	IS	84.2		82.2		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C8-PFOS	IS	102		93.5		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1
13C5-PFNA	IS	99.9		96.1		50-150	28-Sep-17 19:34	1	28-Sep-17 19:47	1

**Sample ID: OW2C-EB-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-07	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 15:30	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFHpA	ND	0.632	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFHxS	ND	1.01	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFOA	ND	0.696	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFOS	ND	0.863	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFNA	ND	0.866	5.34	8.55		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	142	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C4-PFHpA	IS	113	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
18O2-PFHxS	IS	99.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C2-PFOA	IS	75.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C8-PFOS	IS	95.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C5-PFNA	IS	82.5	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:12	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: OW2C-FB-0917** **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701277-08	Column:	BEH C18
Project:	CTO-WE14	Date Collected:	19-Sep-17 12:15	Date Received:	21-Sep-17 09:07		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFHpA	ND	0.630	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFHxS	ND	1.01	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFOA	ND	0.694	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFOS	ND	0.860	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFNA	ND	0.863	5.34	8.53		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	137	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C4-PFHpA	IS	108	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
18O2-PFHxS	IS	112	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C2-PFOA	IS	76.7	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C8-PFOS	IS	110	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C5-PFNA	IS	86.2	50 - 150		B7I0112	22-Sep-17	0.117 L	28-Sep-17 20:24	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.

## **DATA QUALIFIERS & ABBREVIATIONS**

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

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

## CERTIFICATIONS

<b>Accrediting Authority</b>	<b>Certificate Number</b>
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

**For Laboratory Use Only**  
 Laboratory Project ID: 1701277 Temp: 0.1 °C  
 Storage ID: WR-2 Storage Secured: Yes  No

Project ID: CTO WE14 PO#: 10006-7-105690 Sampler: R. McELHINNY  
 (name)

TAT Standard:  21 days  
 (check one): Rush (surcharge may apply)  
 14 days  7 days Specify: \_\_\_\_\_

Invoice to: Name TIFFANY HILL Company CH2M Address 5701 CLEVELAND ST City VIRGINIA BEACH VA State VA Ph# 541-908-3794 Fax# \_\_\_\_\_

Relinquished by (printed name and signature) R. McELHINNY Date 9-19-2017 Time 1600 Received by (printed name and signature) Sydney Roughton Date 09/20/17 Time 0954

SHIP TO: Vista Analytical Laboratory  
 1104 Windfield Way  
 El Dorado Hills, CA 95762  
 (916) 673-1520 \* Fax (916) 673-0106  
 Method of Shipment: FEDEX  
 ATTN: MARTHA MAIER  
 Tracking No.: \_\_\_\_\_

Add Analysis(es) Requested			Container(s)													Comments			
Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE		PAH	WHO-29	Mod. EPA 537

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29	Mod. EPA 537	Unmodified 537	Comments	
OW2E-MW09R-0917	9-19-17	0900		2	P	AQ														2		
OW2C-MW05-0917	9-19-17	1005		2	P	AR														2		
OW2C-MW05P-0917	9-19-17	1010		2	P	AQ														2		
OW2C-MW25-0917	9-19-17	1130		2	P	AR														2		
OW2C-MW19-0917	9-19-17	1245		2	P	AR														2		
OW2C-MW24-0917-MS	9-19-17	1445		2	P	AR														2		
OW2C-MW24-0917-MSD	9-19-17	1445		2	P	AR														2		
OW2C-MW24-0917	9-19-17	1445		2	P	AR														2		
OW2C-EB-091917	9-19-17	1530		2	P	AR														2		
OW2C-FB-091917	9-19-17	1215		2	P	AR														2		

Special Instructions/Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SEND DOCUMENTATION AND RESULTS TO:**

Name: SAME AS ABOVE  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Container Types: P= HDPE, PJ= HDPE Jar      Bottle Preservation Type: T = Thiosulfate,      Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,      O = Other: \_\_\_\_\_      TZ = Trizma: \_\_\_\_\_      SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: \_\_\_\_\_



Sample Log-in Checklist

Vista Work Order #: 1701277 TAT 14

Samples Arrival:	Date/Time <u>09/20/17 0907</u>	Initials: <u>SR</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>09/21/17 0508</u>	Initials: <u>MPB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>F7</u>
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:	<u>0.0</u> (uncorrected)	Time: <u>0953</u>	Thermometer ID: IR-1
Temp °C:	<u>0.1</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

	YES	NO	NA
Adequate Sample Volume Received?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Airbill	Trk # <u>7677 7319 2113</u>	<input checked="" type="checkbox"/>	
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>
Preservation Documented:	<input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<input type="checkbox"/> Trizma	<input checked="" type="checkbox"/> None
	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> NA
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	

Comments:

## **EXTRACTION INFORMATION**

Process Sheet  
 Workorder: **1701277**

Prep Expiration: 2017-Oct-03  
 Client: CH2M Hill

Workorder Due: **05-Oct-17 00:00**

TAT: 14

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

Prep Batch: B7I0112

Version: UCMR 3 (6 Analyte)  
 DoD: DoD QSM 5.1

Prep Data Entered: KC 9.25.17  
Date and Initials

Initial Sequence: S710057

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701277-01	"A"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OW2E-MW09R-0917		WR-2 F-7	HDPE Bottle, 125 mL
1701277-02	"Bc" ↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OW2C-MW05-0917		WR-2 F-7	HDPE Bottle, 125 mL
1701277-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OW2C-MW05P-0917		WR-2 F-7	HDPE Bottle, 125 mL
1701277-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OW2C-MW25-0917		WR-2 F-7	HDPE Bottle, 125 mL
1701277-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OW2C-MW19-0917		WR-2 F-7	HDPE Bottle, 125 mL
1701277-06		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OW2C-MW24-0917	MS/MSD	WR-2 F-7	HDPE Bottle, 125 mL
1701277-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<del>OW2C-EB-0917</del> OW2C-EB-091917		WR-2 F-7	HDPE Bottle, 125 mL
1701277-08		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<del>OW2C-EB-0917</del> OW2C-FB-091917		WR-2 F-7	HDPE Bottle, 125 mL

Pre-Prep Check Out: HB 9/27/17  
 Pre-Prep Check In: NA

Prep Check Out: NA  
 Prep Check In: NA

Prep Reconciled Inits/Date: HB 9/22/17  
 Spike Reconciled Inits/Date: HC 9.22.17  
 VialBoxID: punishmentary

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mL)

B7I0112

Chemist: JTC  
 Prep Date/Time: 21-Sep-17 14:02  
22

Prepared using: LCMS - SPE Extraction-LCMS

		Date/Initials: <u>HB 9/22/17</u>				BalanceID: <u>KRMS-8</u>						
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"/>	B7I0112-BLK1	5	2	0	2	NA	NA	(0.125)	JTC EL 9.22.17	JTC 9.22.17	JTC TLD 9.22.17	
<input type="checkbox"/>	B7I0112-BS1	5	2	0	2	↓	↓	↓				
<input checked="" type="checkbox"/>	B7I0112-MS1 1701277-06	6	2	0	2	143.96	26.86	0.11710				
<input checked="" type="checkbox"/>	B7I0112-MSD1 1701277-06	6	2	0	2	142.12	26.89	0.11523				
<input checked="" type="checkbox"/>	1701277-01	6	2	0	2	145.75	26.92	0.11883				
<input checked="" type="checkbox"/>	1701277-02	6	2	0	3	144.27	26.93	0.11734				
<input checked="" type="checkbox"/>	1701277-03	6	2	0	2	131.09	26.88	0.10421				
<input checked="" type="checkbox"/>	1701277-04	6	2	0	2	128.95	26.87	0.10208				
<input checked="" type="checkbox"/>	1701277-05	6	2	0	2	134.61	26.87	0.10774				
<input checked="" type="checkbox"/>	1701277-06	6	2	0	2	136.33	26.90	0.10943				
<input type="checkbox"/>	1701277-07	6	2	0	2	143.80	26.88	0.11692				
<input type="checkbox"/>	1701277-08	5	2	0	2	144.19	26.91	0.11728				
<input type="checkbox"/>	1701285-01	5	2	0	2	135.32	27.09	0.10823				
<input type="checkbox"/>	1701290-01	6	2	0	2	<del>141</del> 140.23	26.83	0.11340				

HB 9/22/17

IS: <u>17H1501, 10µl (V3)</u>	SPE Chem: <u>Strata X-AW 33µm 200mg 6ml</u> Ele SOLV: <u>0.5% NH<sub>4</sub>OH in MeOH/MeOH</u> Final Volume(s) <u>1µl</u>	Notes:
IS SUP: <u>NA</u>		
NS: <u>17G2428, 10µl (V3)</u>		
RS: <u>17H1718, 10µl (V1)</u>		

Comments: Assume 1 g = 1 mL  
 Cen = Centrifuged  
 Work Order 1701277

Batch: B7I0112

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701277-01	0.11883 ✓	NA	NA	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701277-02	0.11734 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701277-03	0.10421 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701277-04	0.10208 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701277-05	0.10774 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701277-06	0.10943 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701277-07	0.11692 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701277-08	0.11728 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
1701285-01	0.10823 ✓	T	T	1000	22-Sep-17 14:02	HAC			Water	537M PFAS DOD (LOQ as
1701290-01	0.1134 ✓	T	T	1000	22-Sep-17 14:02	HAC			Aqueous	537M PFAS DOD (LOQ as
B7I0112-BLK1	0.125 ✓	T	T	1000	22-Sep-17 14:02	HAC				QC
B7I0112-BS1	0.125 ✓	T	T	1000	22-Sep-17 14:02	HAC	17G2428 ✓	10 ✓		QC
B7I0112-MS1	0.1171 /	T	T	1000	22-Sep-17 14:02	HAC	17G2428 ✓	10 ✓		QC
B7I0112-MSD1	0.11523 ✓	T	T	1000	22-Sep-17 14:02	HAC	17G2428 ✓	10 ✓		QC

KC 9.25.17

Process Sheet  
Workorder: 1701277

Prep Expiration: 2017-Oct-03  
Client: CH2M Hill

Workorder Due: 05-Oct-17 00:00

TAT: 14

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

Prep Batch: B7#0147

Prep Data Entered: KC 9.28.17  
Date and Initials

Version: UCMR 3 (6 Analyte)  
DoD: DoD QSM 5.1

Initial Sequence: S710064

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
<del>1701277-01</del>	<input type="checkbox"/>	<del>OW2E-MW09R-0917</del>	21-Sep-17 09:07	WR-2 F-7	
<del>1701277-02</del>	<input type="checkbox"/>	<del>OW2C-MW05-0917</del>	21-Sep-17 09:07	WR-2 F-7	
<del>1701277-03</del>	<input type="checkbox"/>	<del>OW2C-MW05P-0917</del>	21-Sep-17 09:07	WR-2 F-7	
* 1701277-04	<input checked="" type="checkbox"/>	OW2C-MW25-0917	21-Sep-17 09:07	WR-2 F-7	
<del>1701277-05</del>	<input type="checkbox"/>	<del>OW2C-MW19-0917</del>	21-Sep-17 09:07	WR-2 F-7	
1701277-06	<input type="checkbox"/>	OW2C-MW24-0917	21-Sep-17 09:07	WR-2 F-7	MS/MSD
<del>1701277-07</del>	<input type="checkbox"/>	<del>OW2C-EB-0917</del>	21-Sep-17 09:07	WR-2 F-7	
<del>1701277-08</del>	<input type="checkbox"/>	<del>OW2C-FB-0917</del>	21-Sep-17 09:07	WR-2 F-7	

imL, 2x spike, PFOS only.

Vista PM: Martha Maier

Vial Box ID: DOUBLE

Sample Reconciled By: JTC 9-27-17

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mRL)

B7I0147

Chemist: HC

Prep Date/Time: 27-Sep-17 10:20

Prepared using: LCMS - SPE Extraction-LCMS

		Date/Initials: 9-27-17 HC				BalanceID: HAMS-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"/>	B7I0147-BLK1	5	2	0	2	NA	NA	(0.125) ✓ HC (JST) 9-27-17	HC 9-27-17	HC KC 9-27-17	
<input type="checkbox"/>	B7I0147-BS1	5	2	0	2	↓	↓	↓	↓	↓	
<input type="checkbox"/>	1701277-04RE1 (A)	6	2	0	2	27.34	26.30	2 + 0.00104 + 1.04 KC 9-28-17 ✓ HC 9-27-17	↓	↓	

IS: X2 17H1501, 20µl (V2)	SPE Chem: Statu X-Aw 33, 200µg µm Conc	Notes: (A) 1ml of sample transferred to 125mL HDPE bottle and brought up to 125mL HC 9-27-17
IS SUP: NA	Ele SOLV: 0.5% NH <sub>4</sub> OH in MeOH/MeOH	
NS: X2 17G2428, 20µl (V2)	Final Volume(s) 1mL	
RS: X2 17H1718, 20µl (V2)		

Comments: Assume 1 g = 1 mL

Cen = Centrifuge 1701277

Batch: B7I0147

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701277-04RE1	0.00104 ✓	NA	NA	1000	27-Sep-17 10:20	HAC			Aqueous	537M PFAS DOD (LOQ as
B7I0147-BLK1	0.125 ✓	↓	↓	1000	27-Sep-17 10:20	HAC				QC
B7I0147-BS1	0.125 ✓	↓	↓	1000	27-Sep-17 10:20	HAC	17G2428 ✓	20 ✓		QC



**SAMPLE DATA – MODIFIED EPA METHOD 537**

Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-6.qld

Last Altered: Tuesday, September 26, 2017 09:22:24 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:22:38 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_6, Date: 25-Sep-2017, Time: 18:35:57, ID: B710112-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.125			4727.6			
2	5 PFHpA	363 > 318.9	0.125			6610.7			
3	6 PFHxS	398.9 > 79.6	0.125	3.95	29.5	4502.5	0.082	0.4646	
4	7 PFOA	413.0 > 368.7	0.125	4.23	255.6	17800.5	0.180	1.4218	
5	8 PFNA	463.0 > 418.8	0.125			4941.3			
6	9 PFOS	499.0 > 79.9	0.125			7411.3			
7	12 13C3-PFBS	302.0 > 98.8	0.125	2.92	4727.6	15761.1	3.749	76.7071	76.7
8	15 13C4-PFHpA	367.2 > 321.8	0.125	3.82	6610.7	15761.1	5.243	76.6648	76.7
9	16 18O2-PFHxS	403 > 102.6	0.125	3.94	4502.5	8969.2	6.275	101.3502	101.4
10	17 13C2-PFOA	414.9 > 369.7	0.125	4.23	17800.5	4924.8	45.181	108.8817	108.9
11	18 13C5-PFNA	468.2 > 422.9	0.125	4.58	4941.3	6744.8	9.158	69.6410	69.6
12	20 13C8-PFOS	507.0 > 79.9	0.125	4.64	7411.3	7575.4	12.229	99.9501	100.0
13	22 13C5-PFHxA	318 > 272.9	0.125	3.31	15761.1	15761.1	12.500	100.0000	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.125	3.95	8969.2	8969.2	12.500	100.0000	100.0
15	24 13C8-PFOA	421.3 > 376	0.125	4.23	4924.8	4924.8	12.500	100.0000	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.125	4.58	6744.8	6744.8	12.500	100.0000	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.125	4.64	7575.4	7575.4	12.500	100.0000	100.0
18	27 13C6-PFDA	519.10 > 473.70	0.125	4.88	7301.5	7301.5	12.500	100.0000	100.0
19	28 Total PFHxS	398.9 > 79.6	0.125		29.5	4502.5	0.082	0.4646	
20	29 Total PFOA	413.0 > 368.7	0.125		255.6	17800.5	0.180	1.4218	
21	30 Total PFOS	499.0 > 79.9	0.125		0.0	7411.3	0.000		

Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-6.qld

Last Altered: Tuesday, September 26, 2017 09:22:24 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:22:38 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_6, Date: 25-Sep-2017, Time: 18:35:57, ID: B710112-BLK1 Method Blank 0.125, Description: Method Blank

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	29.471	4502.536	0.082	bb	0.5

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	7 PFOA	413.0 > 368.7	4.23	255.646	17800.527	0.180	MM	1.4

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1								

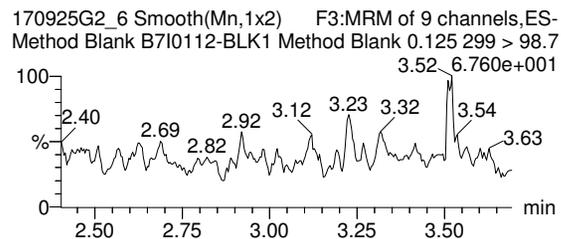
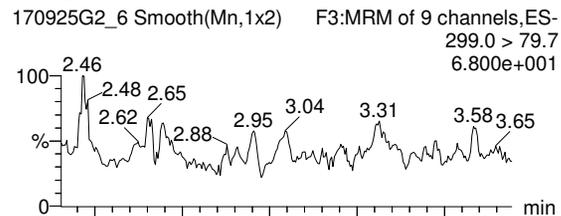
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Last Altered: Tuesday, September 26, 2017 09:22:24 Pacific Daylight Time  
Printed: Tuesday, September 26, 2017 09:22:38 Pacific Daylight Time

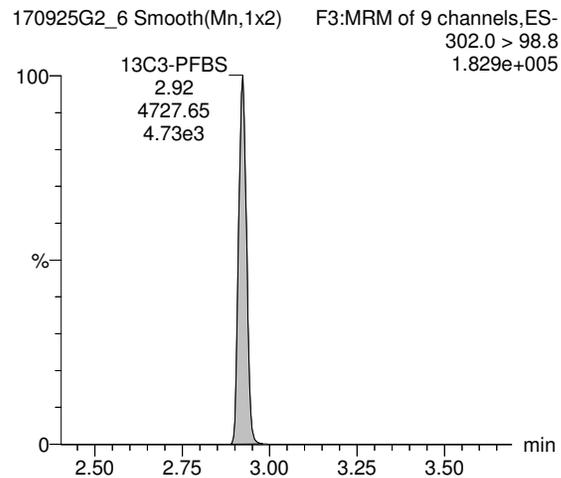
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Name: 170925G2\_6, Date: 25-Sep-2017, Time: 18:35:57, ID: B710112-BLK1 Method Blank 0.125, Description: Method Blank

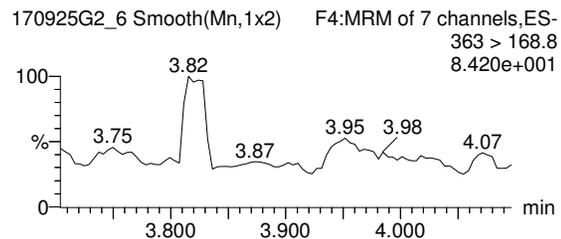
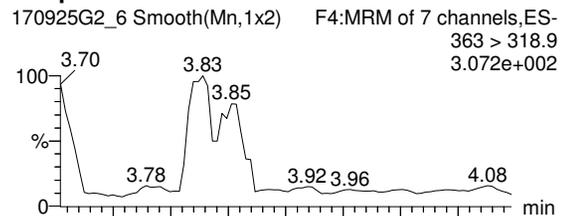
**PFBS**



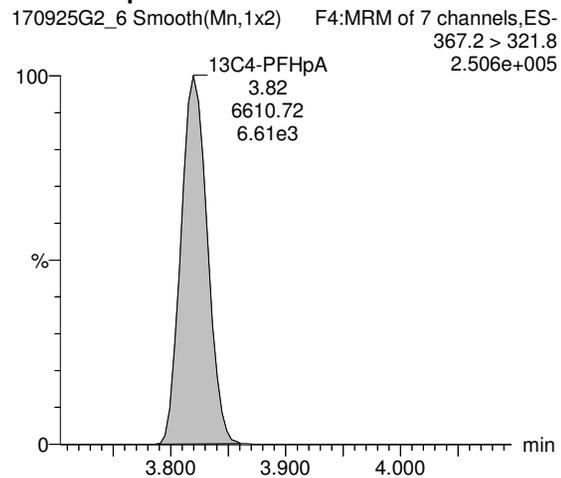
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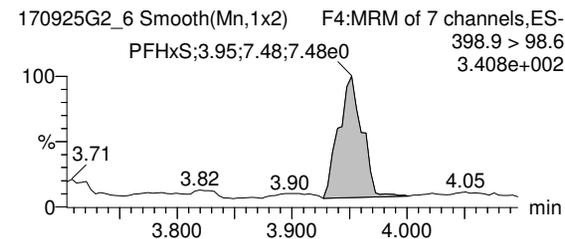
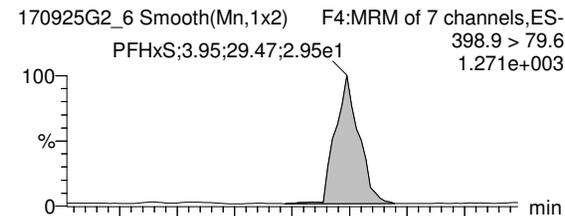
**PFHpA**



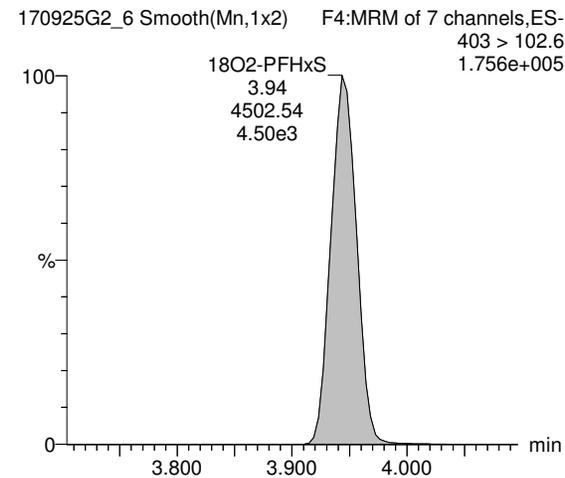
**13C4-PFHpA**



**Total PFHxS**



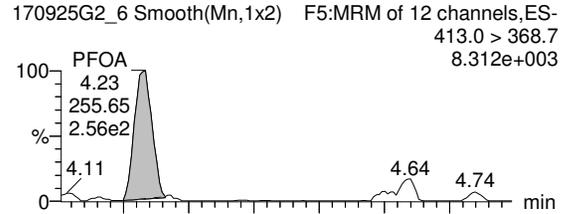
**18O2-PFHxS**



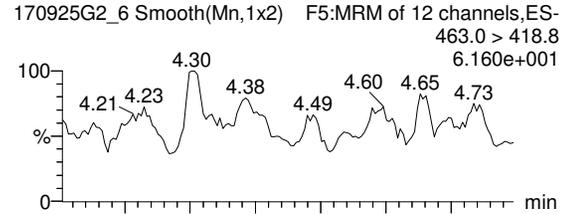
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Last Altered: Tuesday, September 26, 2017 09:22:24 Pacific Daylight Time  
Printed: Tuesday, September 26, 2017 09:22:38 Pacific Daylight Time

Name: 170925G2\_6, Date: 25-Sep-2017, Time: 18:35:57, ID: B710112-BLK1 Method Blank 0.125, Description: Method Blank

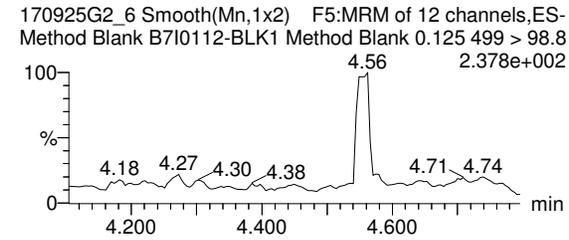
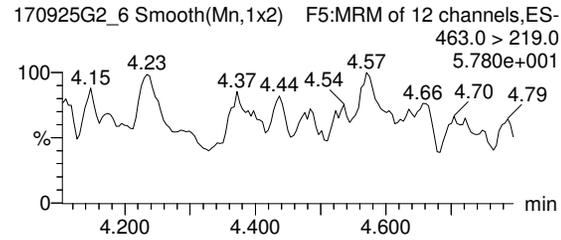
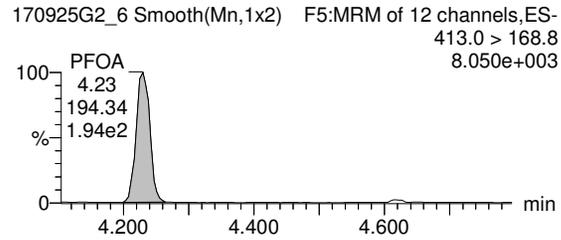
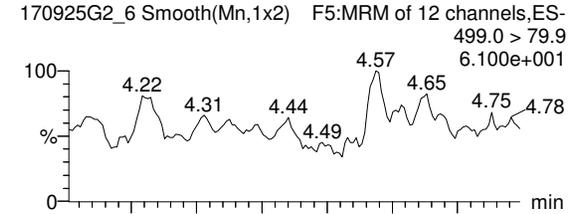
**Total PFOA**



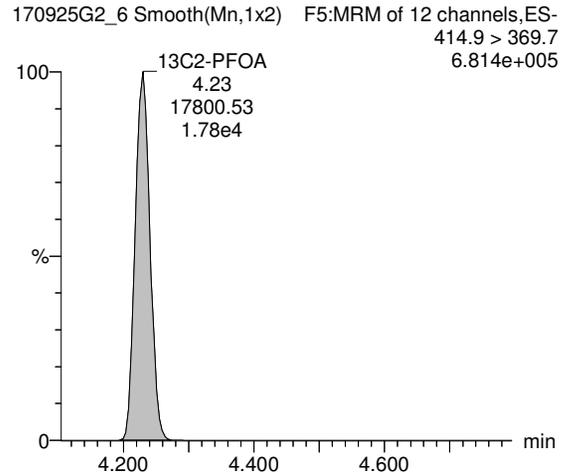
**PFNA**



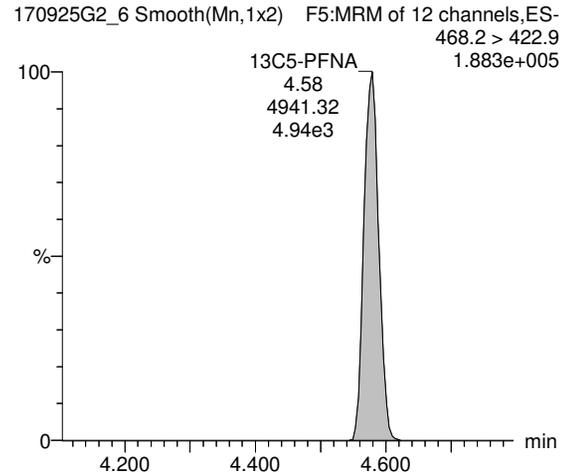
**Total PFOS**



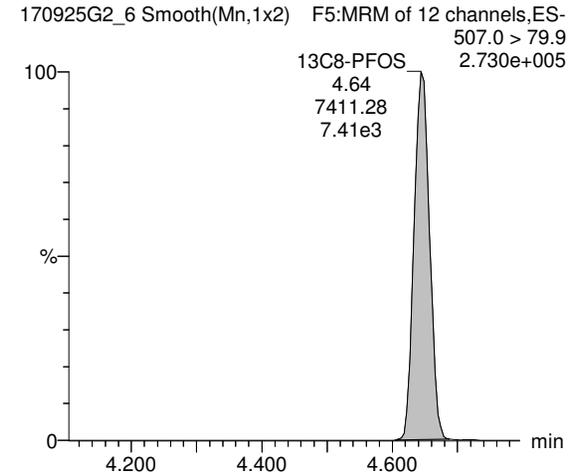
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



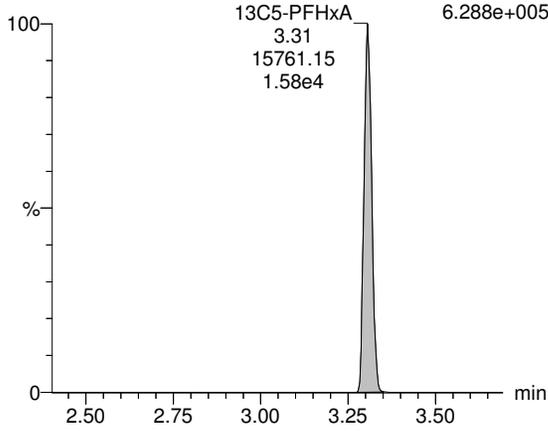
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Last Altered: Tuesday, September 26, 2017 09:22:24 Pacific Daylight Time  
Printed: Tuesday, September 26, 2017 09:22:38 Pacific Daylight Time

Name: 170925G2\_6, Date: 25-Sep-2017, Time: 18:35:57, ID: B710112-BLK1 Method Blank 0.125, Description: Method Blank

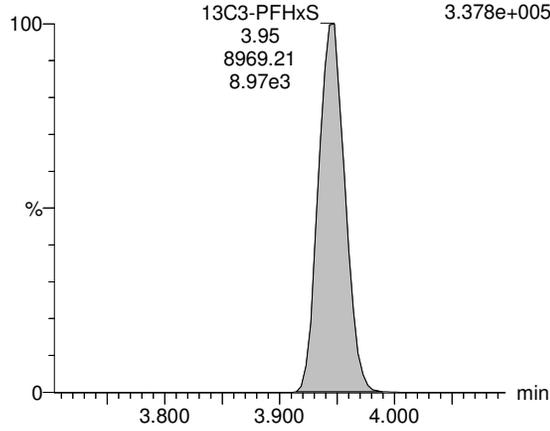
**13C5-PFHxA**

170925G2\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-318 > 272.9  
6.288e+005



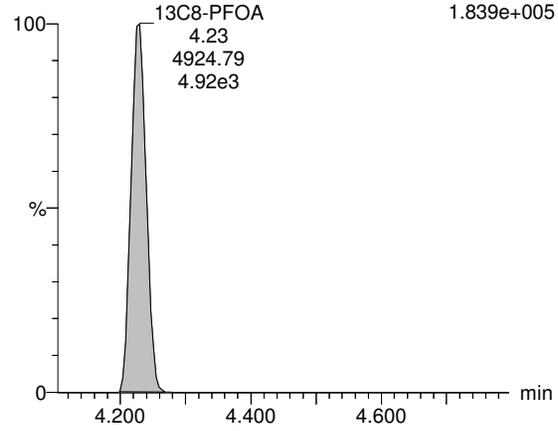
**13C3-PFHxS**

170925G2\_6 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-401.9 > 79.9  
3.378e+005



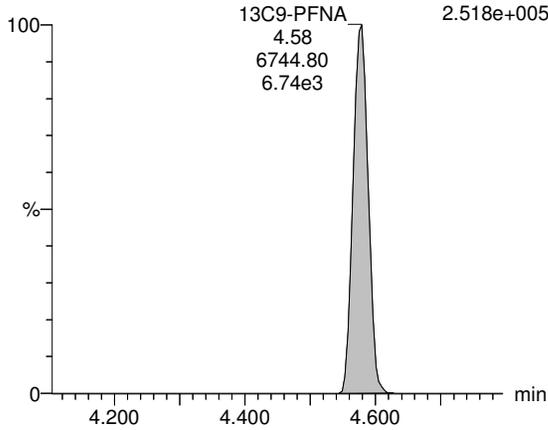
**13C8-PFOA**

170925G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-421.3 > 376  
1.839e+005



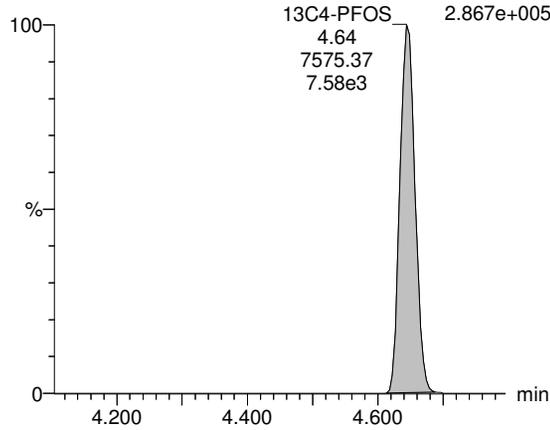
**13C9-PFNA**

170925G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-472.2 > 426.9  
2.518e+005



**13C4-PFOS**

170925G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-503.0 > 79.9  
2.867e+005



Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-4.qld

Last Altered: Tuesday, September 26, 2017 09:17:24 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:18:42 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_4, Date: 25-Sep-2017, Time: 18:10:50, ID: B710112-BS1 OPR 0.125, Description: OPR

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.125	2.93	4540.6	4451.9	12.749	58.4340	73.0
2	5 PFHpA	363 > 318.9	0.125	3.82	12392.2	6710.4	23.084	84.8432	106.1
3	6 PFHxS	398.9 > 79.6	0.125	3.95	5644.3	4255.5	16.580	75.5471	94.4
4	7 PFOA	413.0 > 368.7	0.125	4.23	10640.6	17708.7	7.511	62.0119	77.5
5	8 PFNA	463.0 > 418.8	0.125	4.58	10052.6	5260.3	23.888	87.4985	109.4
6	9 PFOS	499.0 > 79.9	0.125	4.65	2367.7	6605.8	4.480	76.1892	95.2
7	12 13C3-PFBS	302.0 > 98.8	0.125	2.92	4451.9	16676.4	3.337	68.2682	68.3
8	15 13C4-PFHpA	367.2 > 321.8	0.125	3.82	6710.4	16676.4	5.030	73.5500	73.6
9	16 18O2-PFHxS	403 > 102.6	0.125	3.94	4255.5	8899.0	5.977	96.5445	96.5
10	17 13C2-PFOA	414.9 > 369.7	0.125	4.23	17708.7	4689.5	47.203	113.7544	113.8
11	18 13C5-PFNA	468.2 > 422.9	0.125	4.58	5260.3	6601.6	9.960	75.7447	75.7
12	20 13C8-PFOS	507.0 > 79.9	0.125	4.65	6605.8	7779.2	10.615	86.7532	86.8
13	22 13C5-PFHxA	318 > 272.9	0.125	3.31	16676.4	16676.4	12.500	100.0000	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.125	3.95	8899.0	8899.0	12.500	100.0000	100.0
15	24 13C8-PFOA	421.3 > 376	0.125	4.23	4689.5	4689.5	12.500	100.0000	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.125	4.57	6601.6	6601.6	12.500	100.0000	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.125	4.65	7779.2	7779.2	12.500	100.0000	100.0
18	27 13C6-PFDA	519.10 > 473.70	0.125	4.88	7750.7	7750.7	12.500	100.0000	100.0
19	28 Total PFHxS	398.9 > 79.6	0.125		5644.3	4255.5	16.580	75.5471	
20	29 Total PFOA	413.0 > 368.7	0.125		10648.2	17708.7	7.511	62.0119	
21	30 Total PFOS	499.0 > 79.9	0.125		2367.7	6605.8	4.480	76.1892	

Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-4.qld

Last Altered: Tuesday, September 26, 2017 09:17:24 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:18:42 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_4, Date: 25-Sep-2017, Time: 18:10:50, ID: B710112-BS1 OPR 0.125, Description: OPR

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	5644.308	4255.479	16.580	MM	75.5

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	29 Total PFOA	413.0 > 368.7	4.45	7.611	17708.721	0.005	bbl	
2	7 PFOA	413.0 > 368.7	4.23	10640.556	17708.721	7.511	bb	62.0

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.65	2367.701	6605.832	4.480	MM	76.2



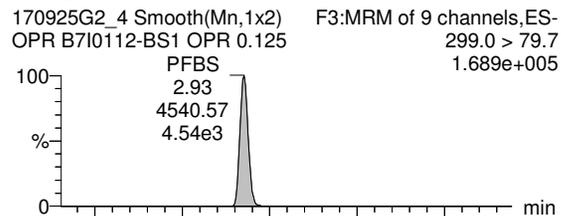
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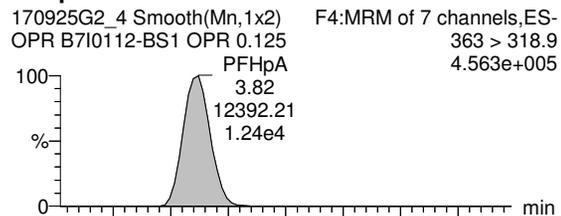
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Name: 170925G2\_4, Date: 25-Sep-2017, Time: 18:10:50, ID: B710112-BS1 OPR 0.125, Description: OPR

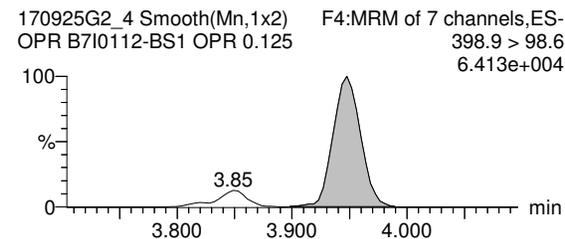
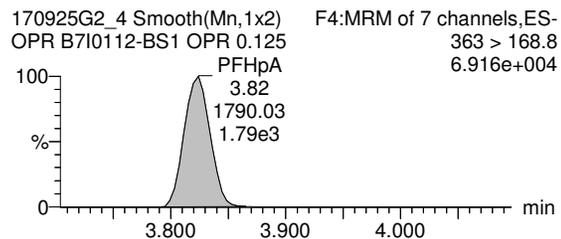
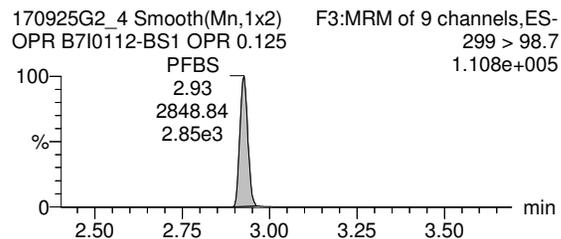
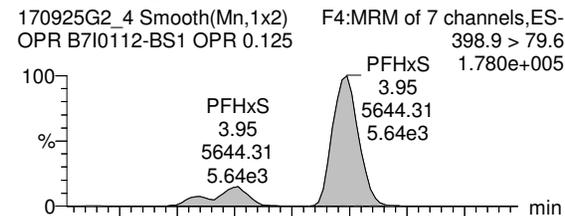
**PFBS**



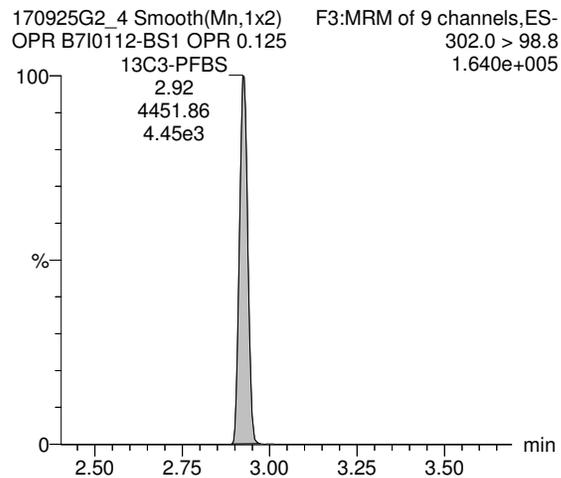
**PFHpA**



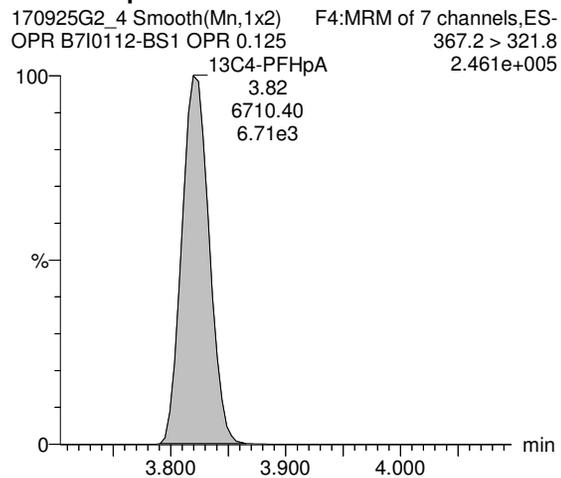
**Total PFHxS**



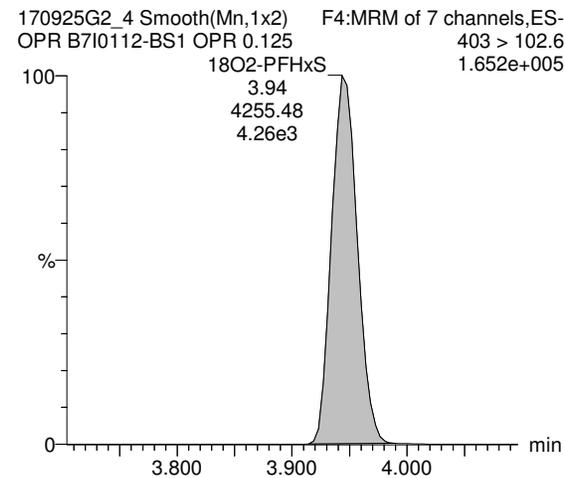
**13C3-PFBS**



**13C4-PFHpA**



**18O2-PFHxS**

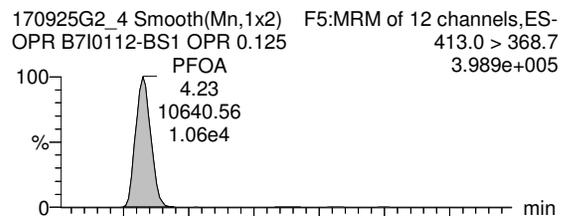


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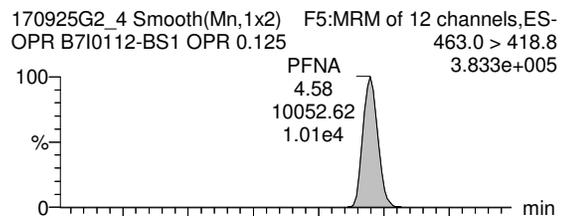
Last Altered: Tuesday, September 26, 2017 09:17:24 Pacific Daylight Time  
Printed: Tuesday, September 26, 2017 09:18:42 Pacific Daylight Time

Name: 170925G2\_4, Date: 25-Sep-2017, Time: 18:10:50, ID: B710112-BS1 OPR 0.125, Description: OPR

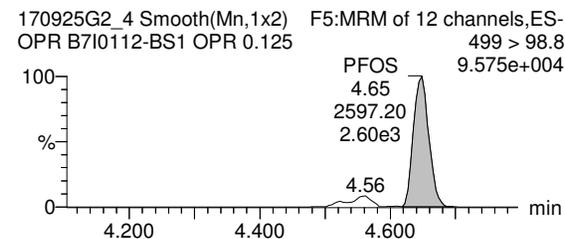
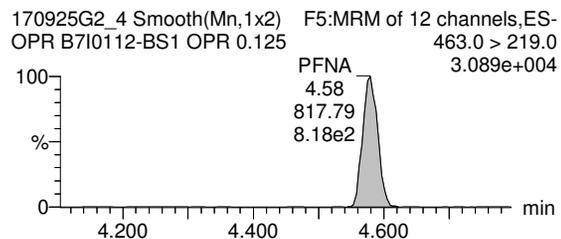
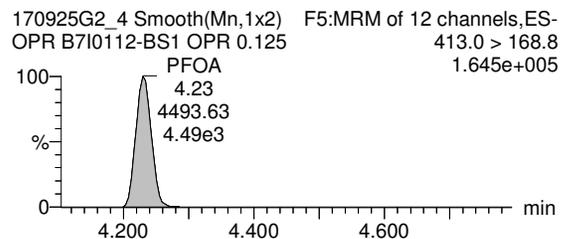
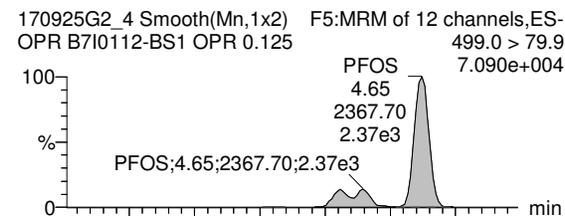
**Total PFOA**



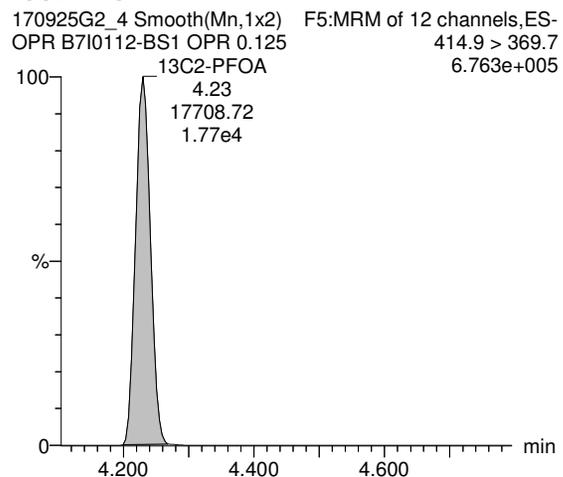
**PFNA**



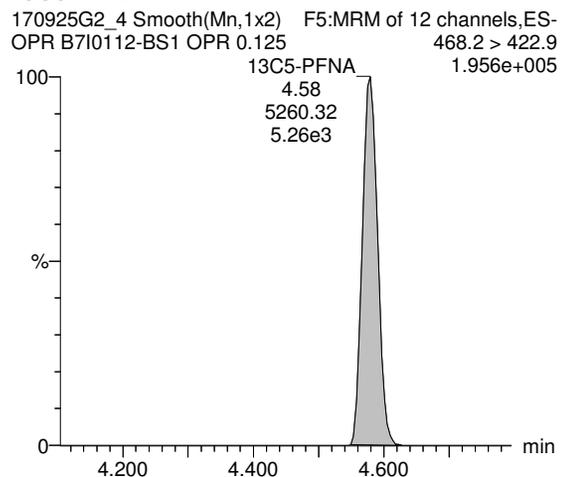
**Total PFOS**



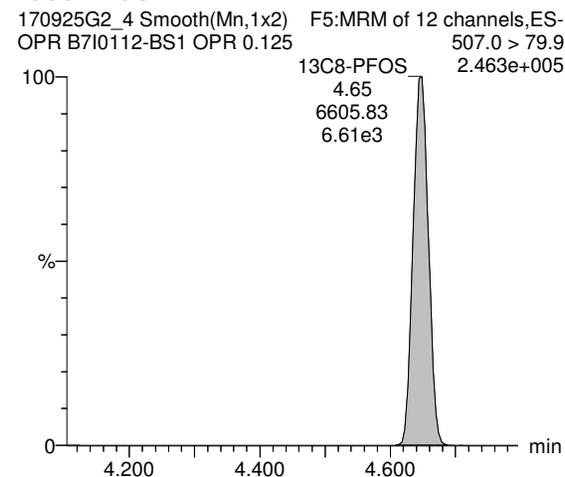
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-4.qld

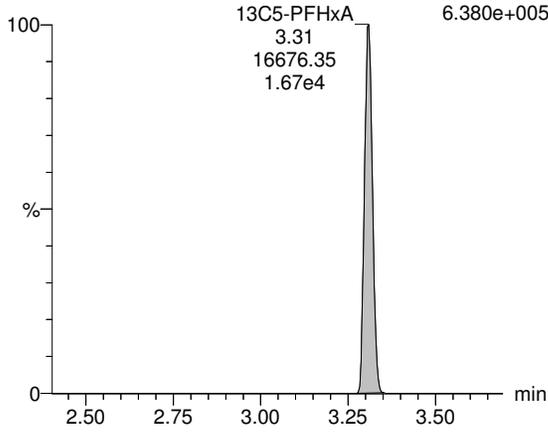
Last Altered: Tuesday, September 26, 2017 09:17:24 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:18:42 Pacific Daylight Time

Name: 170925G2\_4, Date: 25-Sep-2017, Time: 18:10:50, ID: B710112-BS1 OPR 0.125, Description: OPR

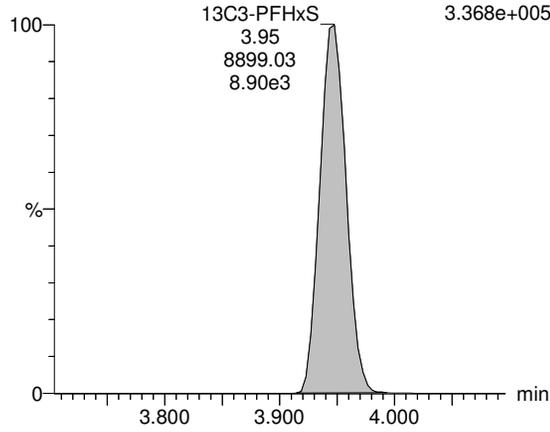
**13C5-PFHxA**

170925G2\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
OPR B710112-BS1 OPR 0.125 318 > 272.9  
6.380e+005



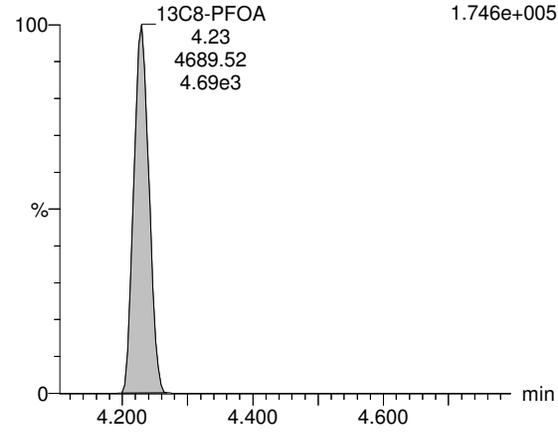
**13C3-PFHxS**

170925G2\_4 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
OPR B710112-BS1 OPR 0.125 401.9 > 79.9  
3.368e+005



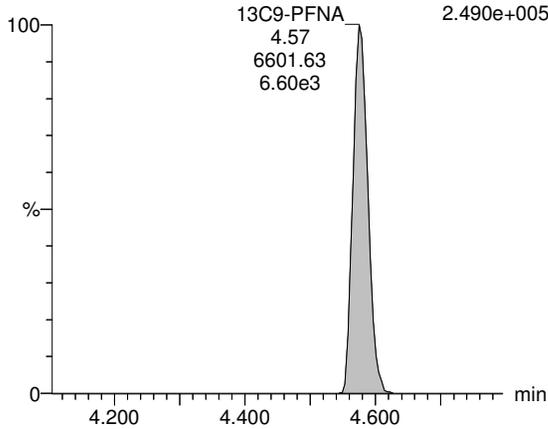
**13C8-PFOA**

170925G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
OPR B710112-BS1 OPR 0.125 421.3 > 376  
1.746e+005



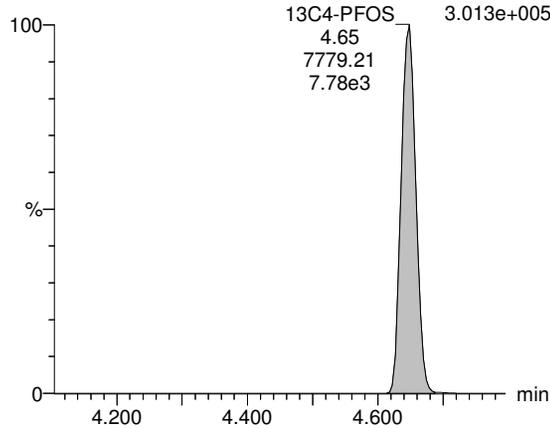
**13C9-PFNA**

170925G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
OPR B710112-BS1 OPR 0.125 472.2 > 426.9  
2.490e+005



**13C4-PFOS**

170925G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
OPR B710112-BS1 OPR 0.125 503.0 > 79.9  
3.013e+005



Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-7.qld

Last Altered: Monday, October 02, 2017 15:52:45 Pacific Daylight Time

Printed: Monday, October 02, 2017 15:53:07 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: 170929G3\_7, Date: 29-Sep-2017, Time: 14:38:05, ID: B710147-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	9 PFOS	499.0 >79.9	0.125			11846.8			
2	20 13C8-PFOS	507.0 > 79.9	0.125	4.66	11846.8	12440.5	23.807	201.8746	100.9
3	26 13C4-PFOS	503.0 > 79.9	0.125	4.66	12440.5	12440.5	25.000	200.0000	100.0
4	30 Total PFOS	499.0 >79.9	0.125		0.0	11846.8	0.000		

Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-7.qld  
Last Altered: Monday, October 02, 2017 15:52:45 Pacific Daylight Time  
Printed: Monday, October 02, 2017 15:53:07 Pacific Daylight Time

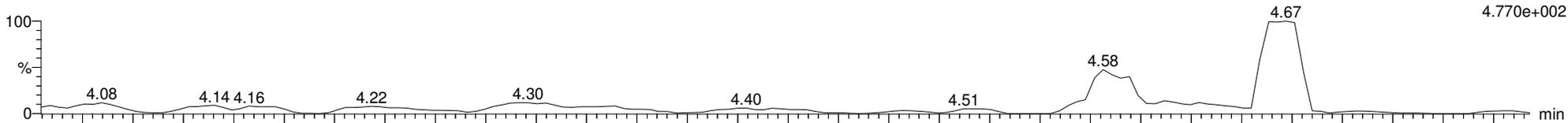
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170929G3\_7, Date: 29-Sep-2017, Time: 14:38:05, ID: B710147-BLK1 Method Blank 0.125, Description: Method Blank

**Total PFOS**

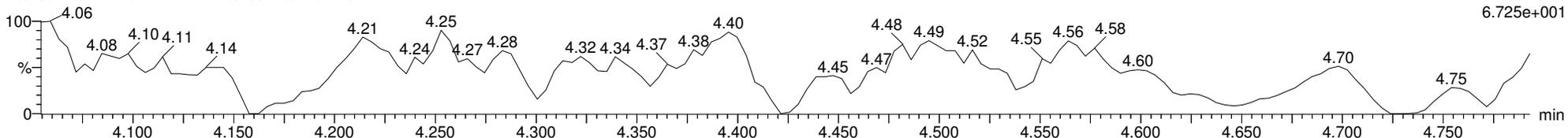
170929G3\_7 Smooth(Mn,1x2)  
Method Blank B710147-BLK1 Method Blank 0.125

F5:MRM of 12 channels,ES-  
499.0 > 79.9  
4.770e+002



170929G3\_7 Smooth(Mn,1x2)  
Method Blank B710147-BLK1 Method Blank 0.125

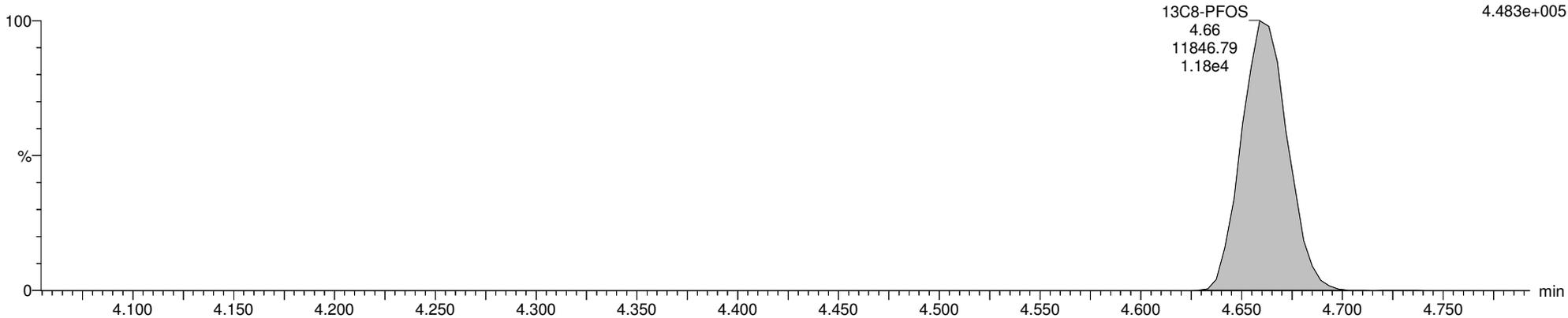
F5:MRM of 12 channels,ES-  
499 > 98.8  
6.725e+001



**13C8-PFOS**

170929G3\_7 Smooth(Mn,1x2)  
Method Blank B710147-BLK1 Method Blank 0.125

F5:MRM of 12 channels,ES-  
507.0 > 79.9  
4.483e+005



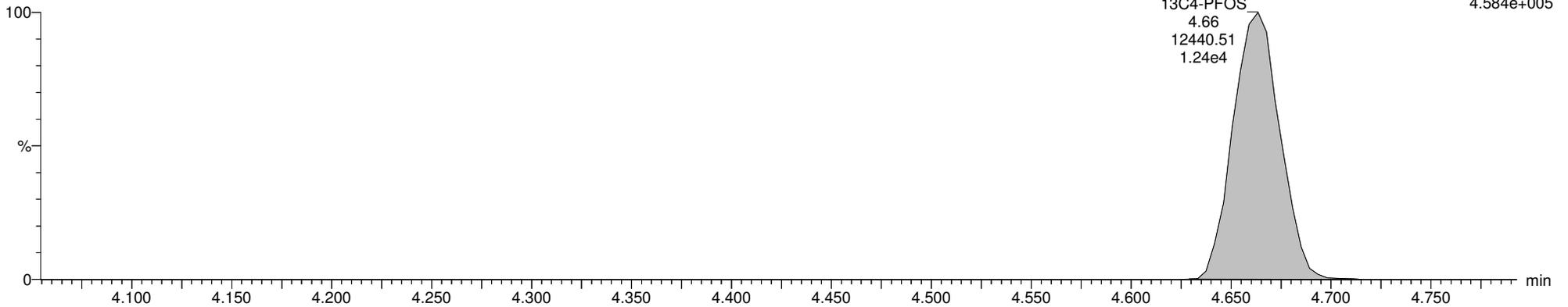
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-7.qld  
Last Altered: Monday, October 02, 2017 15:52:45 Pacific Daylight Time  
Printed: Monday, October 02, 2017 15:53:07 Pacific Daylight Time

Name: 170929G3\_7, Date: 29-Sep-2017, Time: 14:38:05, ID: B7I0147-BLK1 Method Blank 0.125, Description: Method Blank

13C4-PFOS

170929G3\_7 Smooth(Mn,1x2)  
Method Blank B7I0147-BLK1 Method Blank 0.125

F5:MRM of 12 channels,ES-  
503.0 > 79.9  
4.584e+005



Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-4.qld

Last Altered: Monday, October 02, 2017 15:49:32 Pacific Daylight Time

Printed: Monday, October 02, 2017 15:50:29 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: 170929G3\_4, Date: 29-Sep-2017, Time: 13:56:00, ID: B710147-BS1 OPR 0.125, Description: OPR

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	9 PFOS	499.0 >79.9	0.125	4.66	2606.3	6396.1	10.187	163.7182	102.3
2	20 13C8-PFOS	507.0 > 79.9	0.125	4.66	6396.1	6983.5	22.897	194.1607	97.1
3	26 13C4-PFOS	503.0 > 79.9	0.125	4.66	6983.5	6983.5	25.000	200.0000	100.0
4	30 Total PFOS	499.0 >79.9	0.125		2606.3	6396.1	10.187	163.7182	

Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-4.qld  
Last Altered: Monday, October 02, 2017 15:49:32 Pacific Daylight Time  
Printed: Monday, October 02, 2017 15:50:29 Pacific Daylight Time

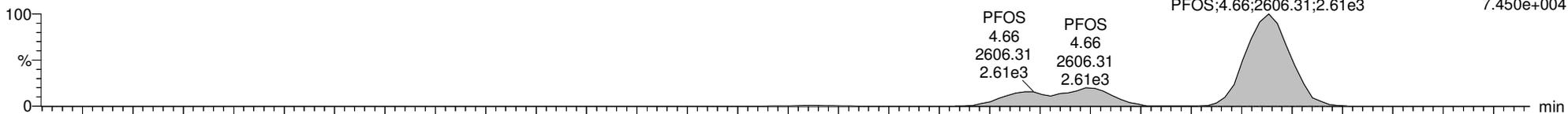
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170929G3\_4, Date: 29-Sep-2017, Time: 13:56:00, ID: B710147-BS1 OPR 0.125, Description: OPR

**Total PFOS**

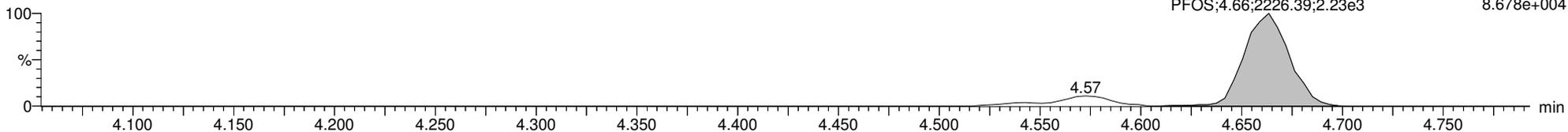
170929G3\_4 Smooth(Mn,1x2)  
OPR B710147-BS1 OPR 0.125

F5:MRM of 12 channels,ES-  
499.0 > 79.9  
7.450e+004



170929G3\_4 Smooth(Mn,1x2)  
OPR B710147-BS1 OPR 0.125

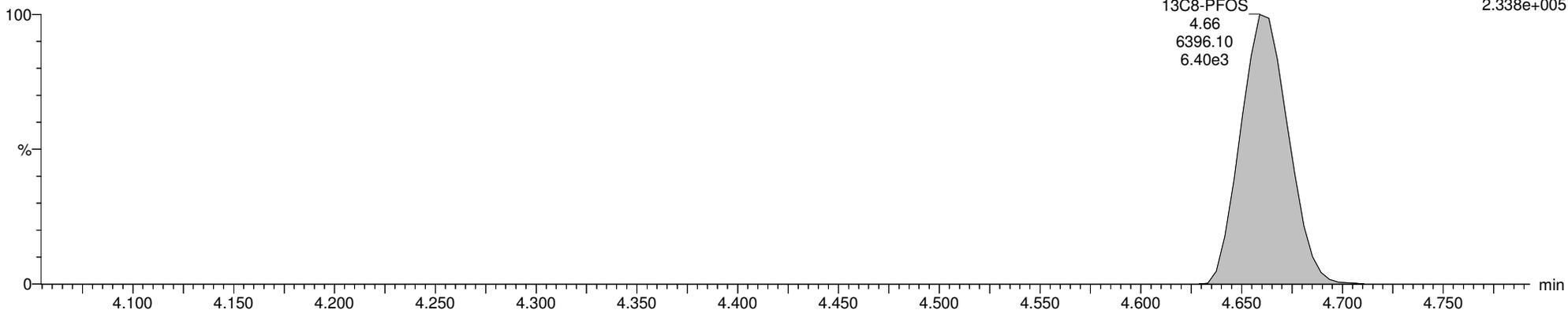
F5:MRM of 12 channels,ES-  
499 > 98.8  
8.678e+004



**13C8-PFOS**

170929G3\_4 Smooth(Mn,1x2)  
OPR B710147-BS1 OPR 0.125

F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.338e+005





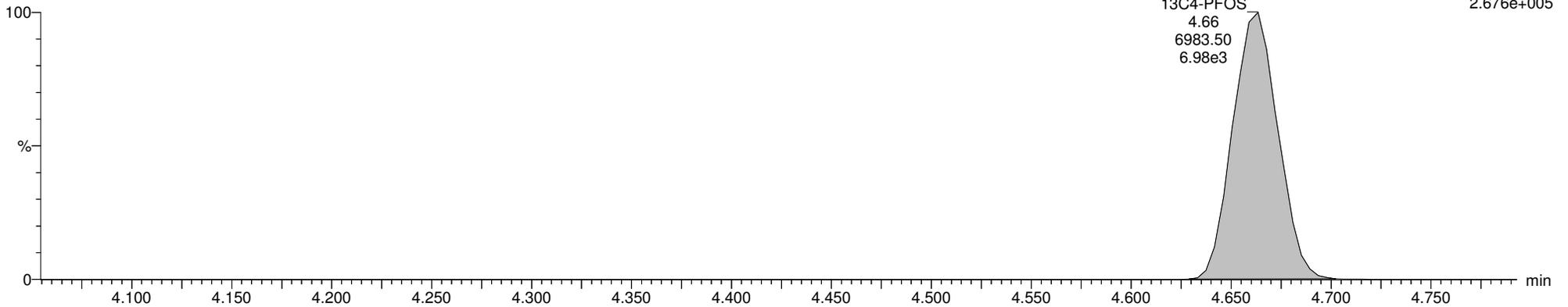
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-4.qld  
Last Altered: Monday, October 02, 2017 15:49:32 Pacific Daylight Time  
Printed: Monday, October 02, 2017 15:50:29 Pacific Daylight Time

Name: 170929G3\_4, Date: 29-Sep-2017, Time: 13:56:00, ID: B7I0147-BS1 OPR 0.125, Description: OPR

13C4-PFOS

170929G3\_4 Smooth(Mn,1x2)  
OPR B7I0147-BS1 OPR 0.125

F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.676e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-4.qld

Last Altered: Monday, October 02, 2017 11:29:14 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:40:16 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: 170928G2\_4, Date: 28-Sep-2017, Time: 17:54:16, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.119	2.92	3212.0	5169.3	7.767	38.9724	
2	5 PFHpA	363 > 318.9	0.119	3.82	5798.4	8531.4	8.496	30.0914	
3	6 PFHxS	398.9 > 79.6	0.119	3.95	33015.0	4729.1	87.266	384.3056	
4	7 PFOA	413.0 > 368.7	0.119	4.23	15340.8	14376.8	13.338	117.3028	
5	8 PFNA	463.0 > 418.8	0.119	4.58	454.3	5289.1	1.074	3.1745	
6	9 PFOS	499.0 > 79.9	0.119	4.64	2451.5	5421.9	5.652	95.3783	
7	12 13C3-PFBS	302.0 > 98.8	0.119	2.92	5169.3	16400.1	3.940	140.6063	133.7
8	15 13C4-PFHpA	367.2 > 321.8	0.119	3.82	8531.4	16400.1	6.503	122.4830	116.4
9	16 18O2-PFHxS	403 > 102.6	0.119	3.94	4729.1	9066.0	6.520	125.7230	119.5
10	17 13C2-PFOA	414.9 > 369.7	0.119	4.23	14376.8	5210.9	34.488	78.1326	74.3
11	18 13C5-PFNA	468.2 > 422.9	0.119	4.58	5289.1	5939.6	11.131	105.7244	100.5
12	20 13C8-PFOS	507.0 > 79.9	0.119	4.64	5421.9	5952.8	11.385	101.5556	96.5
13	22 13C5-PFHxA	318 > 272.9	0.119	3.31	16400.1	16400.1	12.500	105.1923	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.119	3.95	9066.0	9066.0	12.500	105.1923	100.0
15	24 13C8-PFOA	421.3 > 376	0.119	4.23	5210.9	5210.9	12.500	105.1923	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.119	4.58	5939.6	5939.6	12.500	105.1923	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.119	4.64	5952.8	5952.8	12.500	105.1923	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-4.qld

Last Altered: Monday, October 02, 2017 11:29:14 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:40:23 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: 170928G2\_4, Date: 28-Sep-2017, Time: 17:54:16, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.119		33015.0	4729.1	87.266	384.3056	
2	29 Total PFOA	413.0 > 368.7	0.119		18139.5	14376.8	15.771	136.2158	
3	30 Total PFOS	499.0 > 79.9	0.119		2451.5	5421.9	5.652	95.3783	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-4.qld

Last Altered: Monday, October 02, 2017 11:29:14 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:40:16 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: 170928G2\_4, Date: 28-Sep-2017, Time: 17:54:16, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	33014.953	4729.058	87.266	MM	384.3

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	29 Total PFOA	413.0 > 368.7	4.13	2798.713	14376.825	2.433	bd	18.9
2	7 PFOA	413.0 > 368.7	4.23	15340.802	14376.825	13.338	bb	117.3

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.64	2451.459	5421.869	5.652	MM	95.4

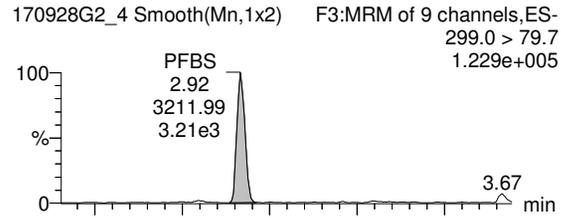
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-4.qld

Last Altered: Monday, October 02, 2017 11:29:14 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:40:16 Pacific Daylight Time

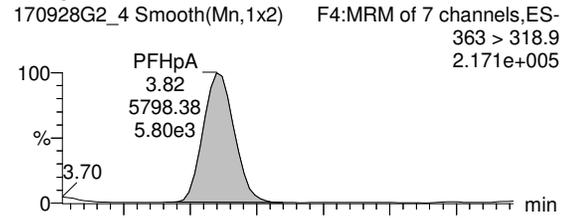
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G2\_4, Date: 28-Sep-2017, Time: 17:54:16, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917

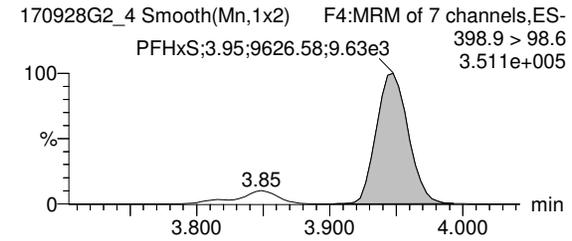
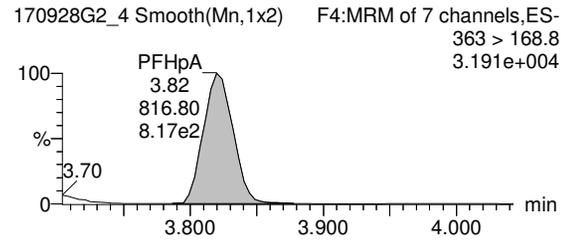
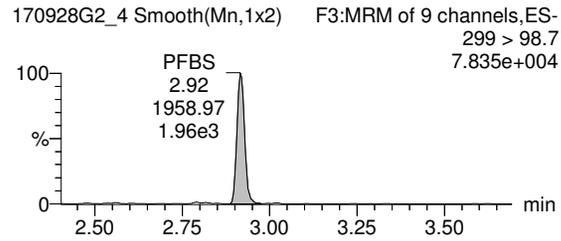
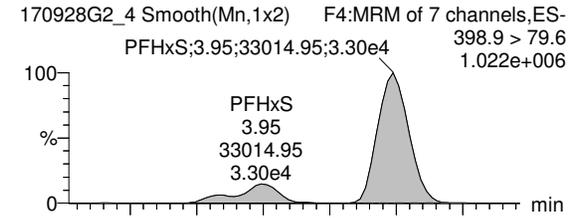
**PFBS**



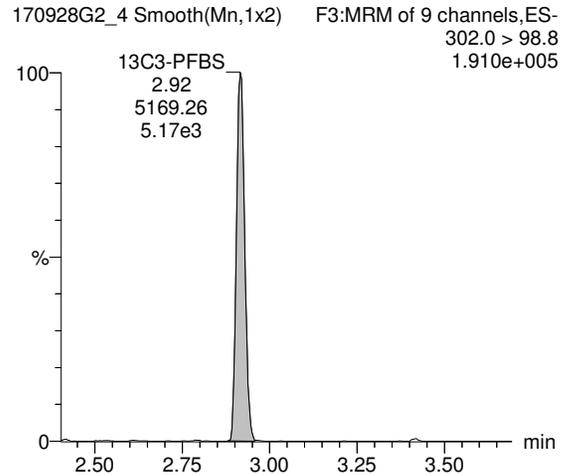
**PFHpA**



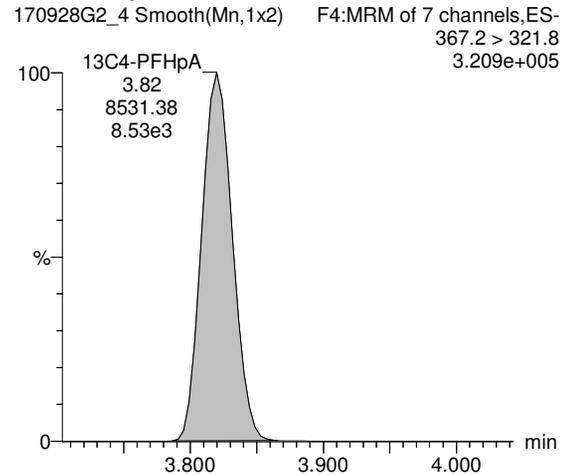
**Total PFHxS**



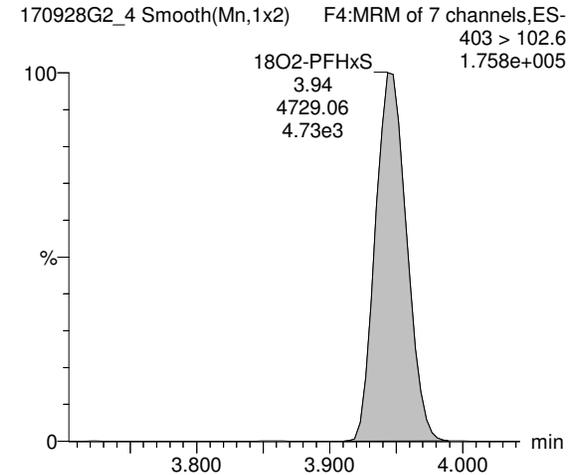
**13C3-PFBS**



**13C4-PFHpA**



**18O2-PFHxS**



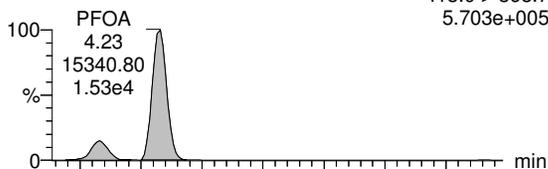
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-4.qld

Last Altered: Monday, October 02, 2017 11:29:14 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:40:16 Pacific Daylight Time

Name: 170928G2\_4, Date: 28-Sep-2017, Time: 17:54:16, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917

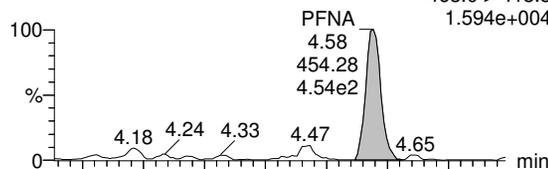
**Total PFOA**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
5.703e+005



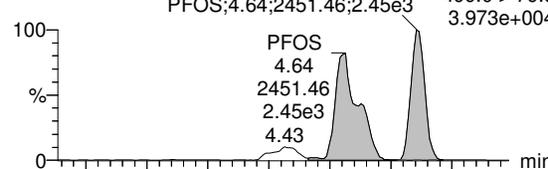
**PFNA**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
1.594e+004

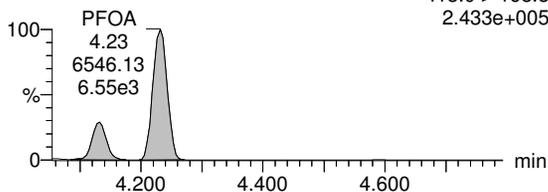


**Total PFOS**

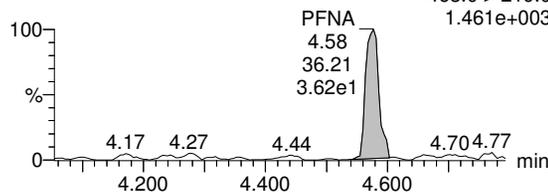
170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
3.973e+004



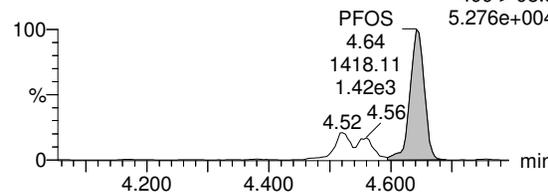
170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
2.433e+005



170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
1.461e+003

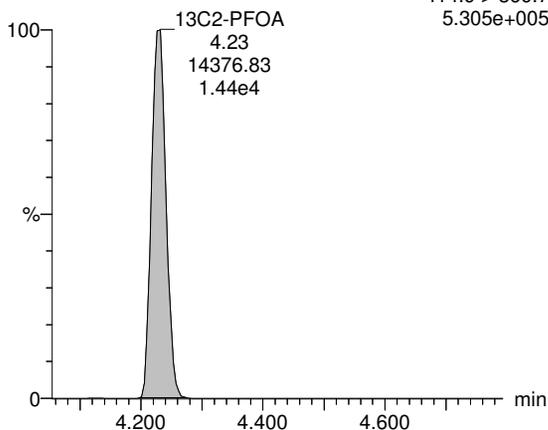


170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
5.276e+004



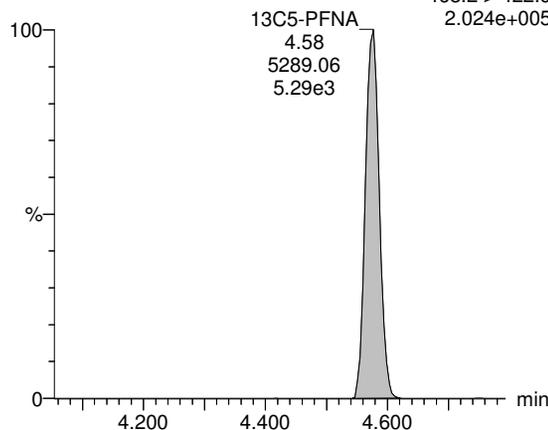
**13C2-PFOA**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
5.305e+005



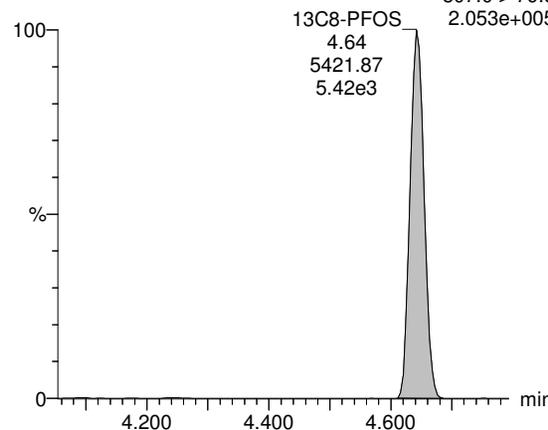
**13C5-PFNA**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.024e+005



**13C8-PFOS**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.053e+005



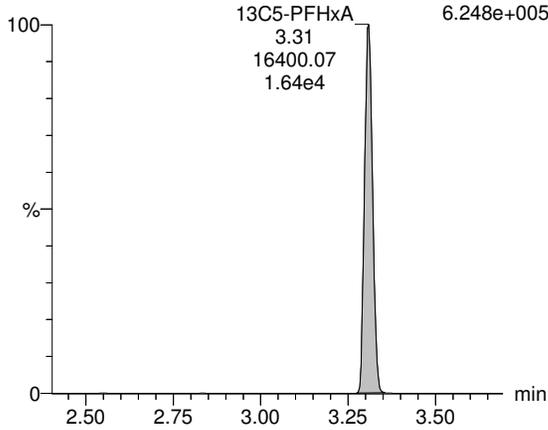
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Last Altered: Monday, October 02, 2017 11:29:14 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:40:16 Pacific Daylight Time

Name: 170928G2\_4, Date: 28-Sep-2017, Time: 17:54:16, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917

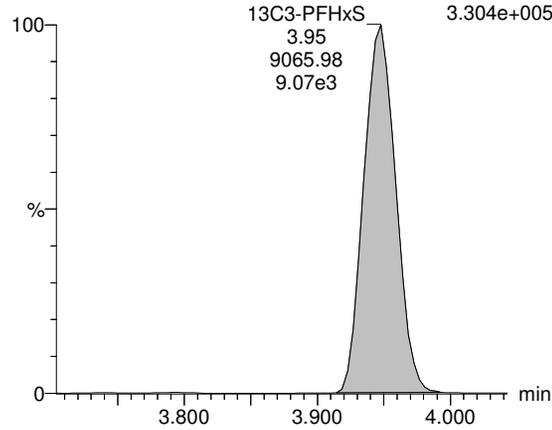
**13C5-PFHxA**

170928G2\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.248e+005



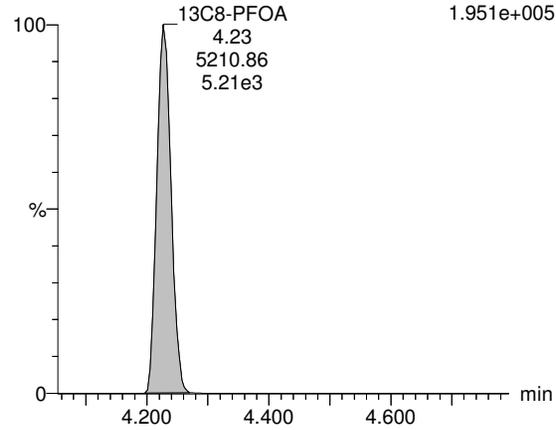
**13C3-PFHxS**

170928G2\_4 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
3.304e+005



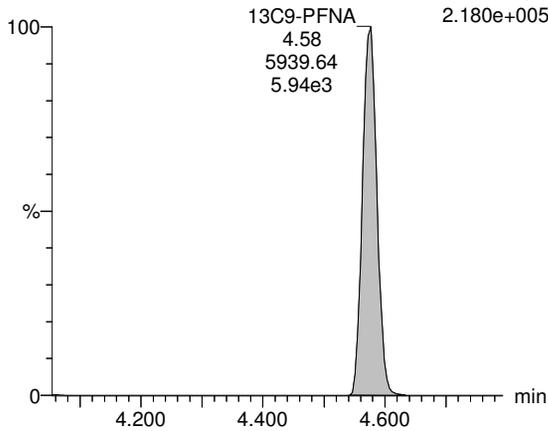
**13C8-PFOA**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.951e+005



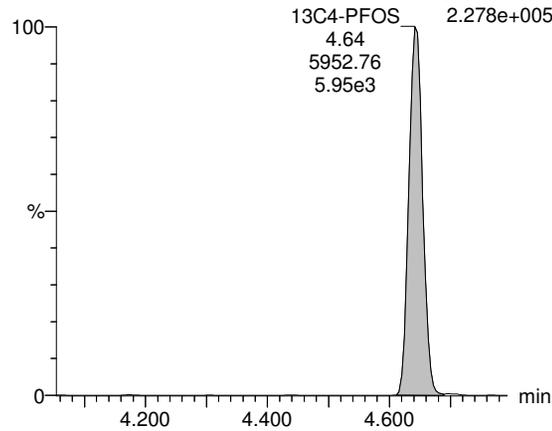
**13C9-PFNA**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.180e+005



**13C4-PFOS**

170928G2\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.278e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-5.qld

Last Altered: Monday, October 02, 2017 11:36:06 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:37:38 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: 170928G2\_5, Date: 28-Sep-2017, Time: 18:06:53, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.117	2.91	1623.7	5866.2	3.460	17.4746	
2	5 PFHpA	363 > 318.9	0.117	3.82	9318.4	9242.6	12.602	45.4135	
3	6 PFHxS	398.9 > 79.6	0.117	3.94	11349.1	5489.3	25.844	115.1686	
4	7 PFOA	413.0 > 368.7	0.117	4.23	11135.2	19063.2	7.301	63.6343	
5	8 PFNA	463.0 > 418.8	0.117	4.57	10747.2	6902.6	19.462	60.3467	
6	9 PFOS	499.0 > 79.9	0.117	4.65	8050.0	7811.3	12.882	220.6465	
7	12 13C3-PFBS	302.0 > 98.8	0.117	2.91	5866.2	17274.2	4.245	153.4119	144.0
8	15 13C4-PFHpA	367.2 > 321.8	0.117	3.82	9242.6	17274.2	6.688	127.5787	119.8
9	16 18O2-PFHxS	403 > 102.6	0.117	3.94	5489.3	12085.0	5.678	110.8683	104.1
10	17 13C2-PFOA	414.9 > 369.7	0.117	4.23	19063.2	6169.6	38.624	88.6135	83.2
11	18 13C5-PFNA	468.2 > 422.9	0.117	4.57	6902.6	7189.5	12.001	115.4396	108.4
12	20 13C8-PFOS	507.0 > 79.9	0.117	4.64	7811.3	7840.6	12.453	112.4933	105.6
13	22 13C5-PFHxA	318>272.9	0.117	3.30	17274.2	17274.2	12.500	106.5280	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.117	3.94	12085.0	12085.0	12.500	106.5280	100.0
15	24 13C8-PFOA	421.3 > 376	0.117	4.23	6169.6	6169.6	12.500	106.5280	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.117	4.57	7189.5	7189.5	12.500	106.5280	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.117	4.64	7840.6	7840.6	12.500	106.5280	100.0



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-5.qld

Last Altered: Monday, October 02, 2017 11:36:06 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:37:58 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: 170928G2\_5, Date: 28-Sep-2017, Time: 18:06:53, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.117		11349.1	5489.3	25.844	115.1686	
2	29 Total PFOA	413.0 > 368.7	0.117		12833.6	19063.2	8.415	70.7291	
3	30 Total PFOS	499.0 > 79.9	0.117		8050.0	7811.3	12.882	220.6465	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-5.qld

Last Altered: Monday, October 02, 2017 11:36:06 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:37:38 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: 170928G2\_5, Date: 28-Sep-2017, Time: 18:06:53, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.94	11349.061	5489.307	25.844	MM	115.2

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	7 PFOA	413.0 > 368.7	4.23	11135.205	19063.244	7.301	bb	63.6
2	29 Total PFOA	413.0 > 368.7	4.13	1698.399	19063.244	1.114	bb	7.1

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.65	8050.033	7811.251	12.882	MM	220.6

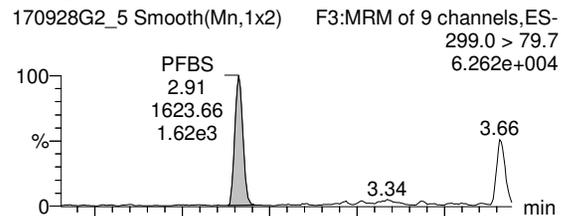
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-5.qld

Last Altered: Monday, October 02, 2017 11:36:06 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:37:38 Pacific Daylight Time

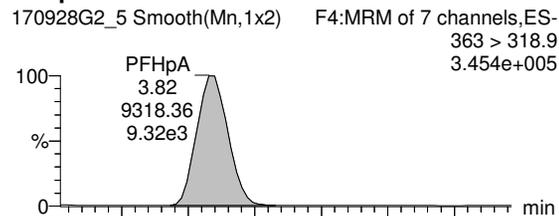
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G2\_5, Date: 28-Sep-2017, Time: 18:06:53, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917

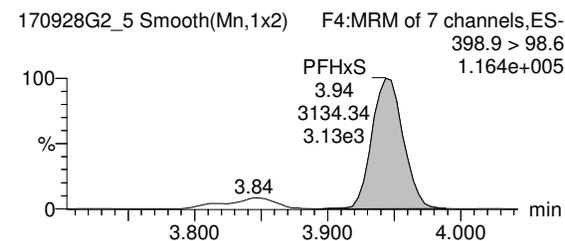
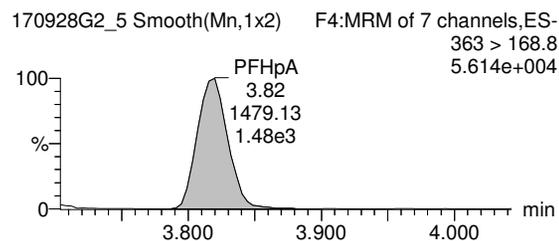
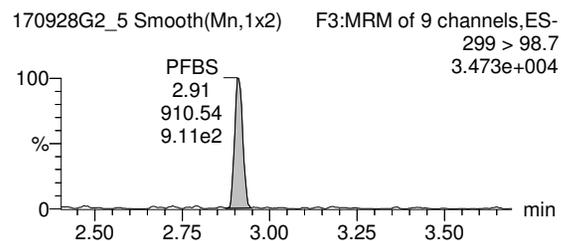
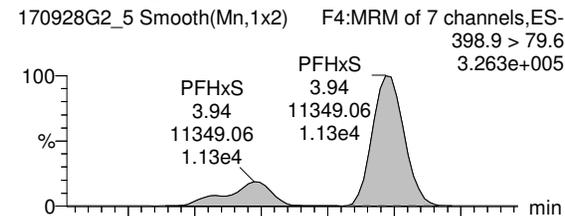
**PFBS**



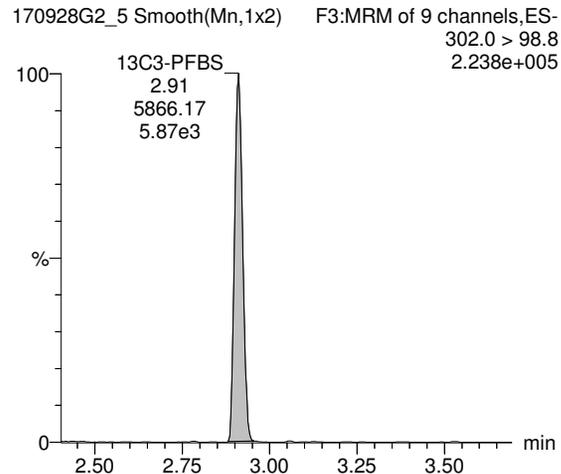
**PFHpA**



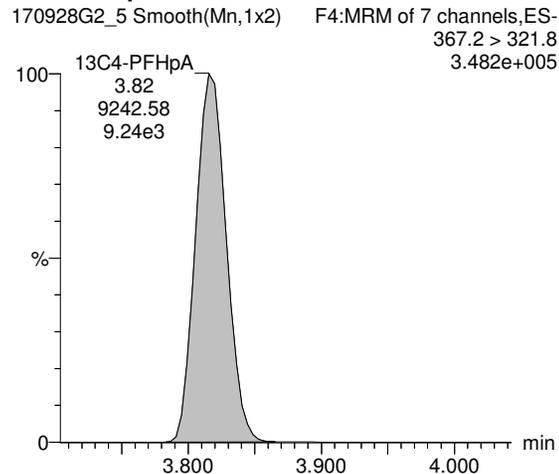
**Total PFHxS**



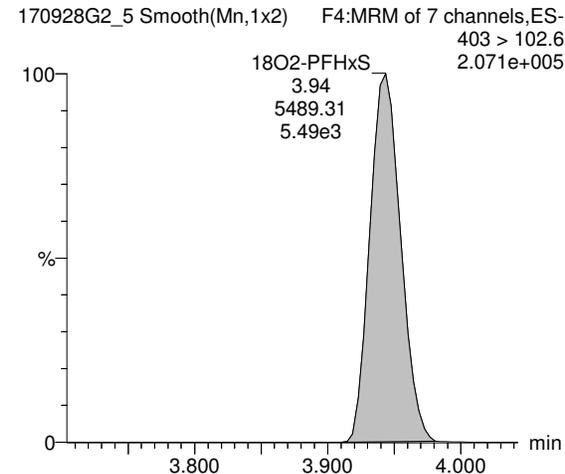
**13C3-PFBS**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-5.qld

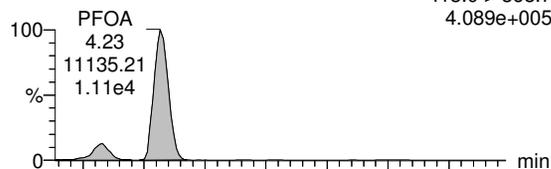
Last Altered: Monday, October 02, 2017 11:36:06 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:37:38 Pacific Daylight Time

Name: 170928G2\_5, Date: 28-Sep-2017, Time: 18:06:53, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917

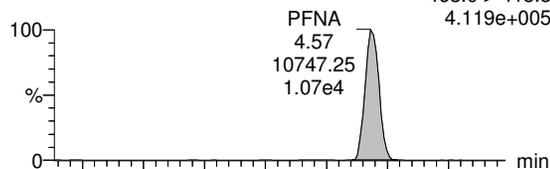
**Total PFOA**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
4.089e+005



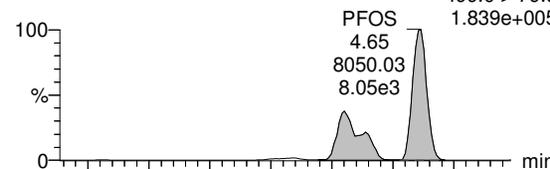
**PFNA**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
4.119e+005

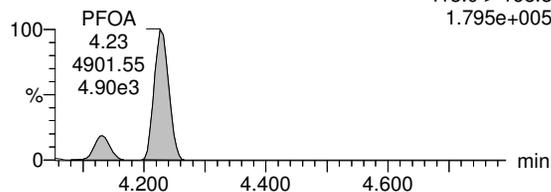


**Total PFOS**

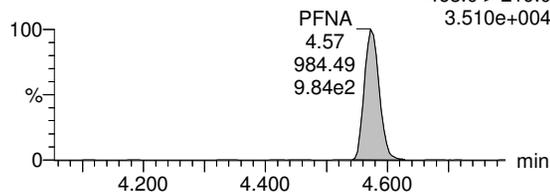
170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
1.839e+005



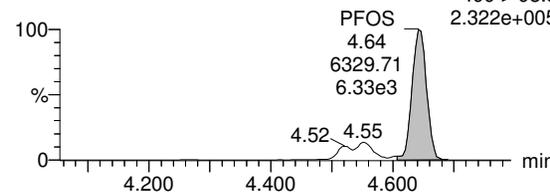
170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
1.795e+005



170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
3.510e+004

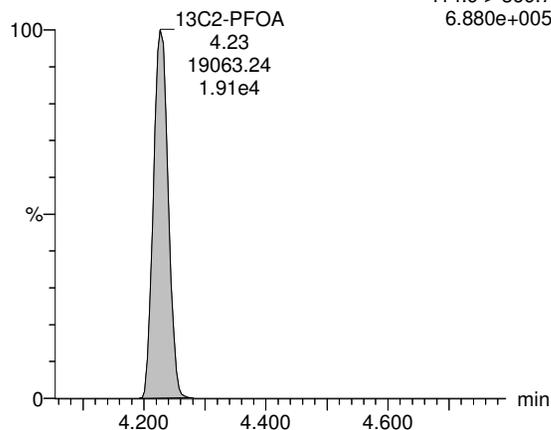


170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
2.322e+005



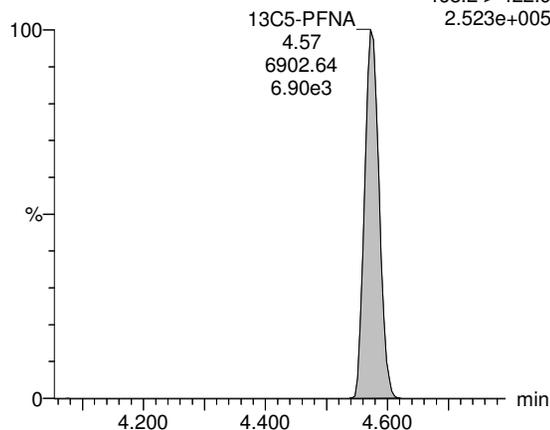
**13C2-PFOA**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
6.880e+005



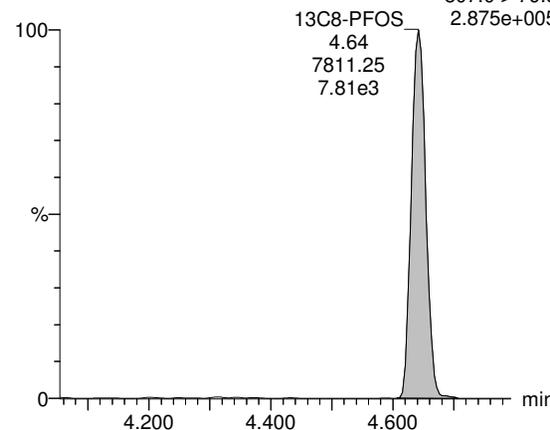
**13C5-PFNA**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.523e+005



**13C8-PFOS**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.875e+005



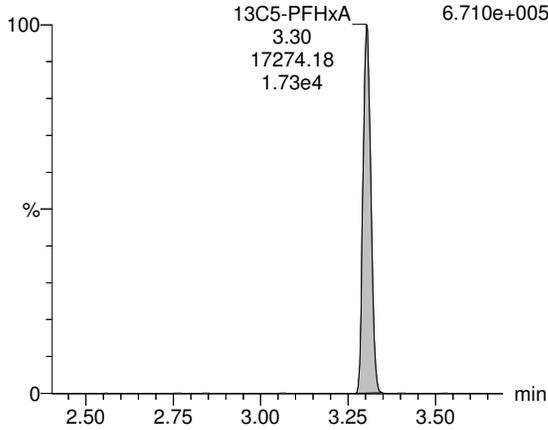
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-5.qld

Last Altered: Monday, October 02, 2017 11:36:06 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:37:38 Pacific Daylight Time

Name: 170928G2\_5, Date: 28-Sep-2017, Time: 18:06:53, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917

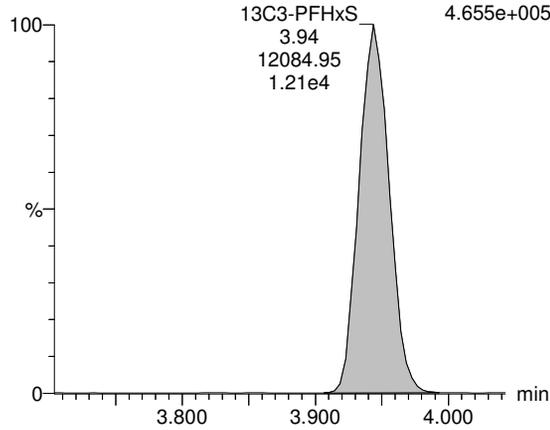
**13C5-PFHxA**

170928G2\_5 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.710e+005



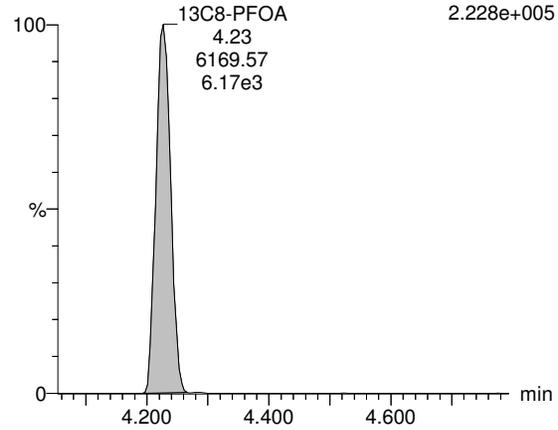
**13C3-PFHxS**

170928G2\_5 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.655e+005



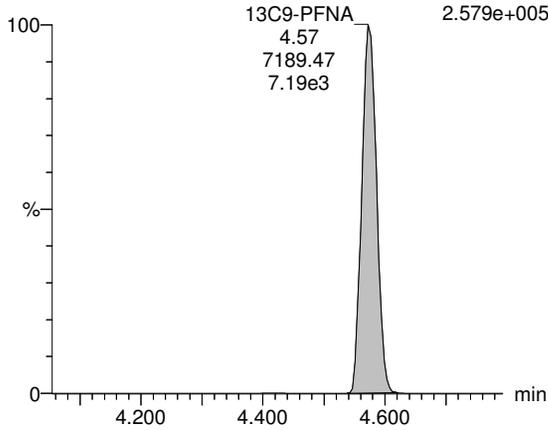
**13C8-PFOA**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
2.228e+005



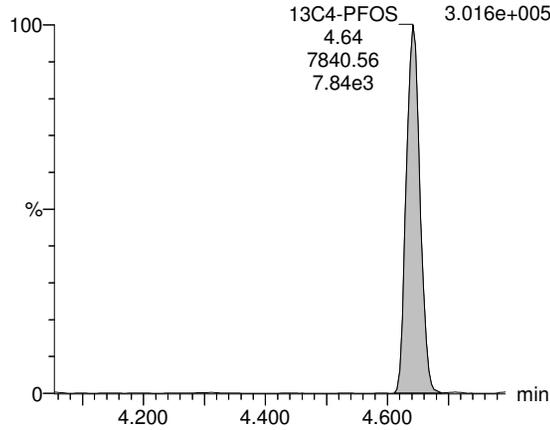
**13C9-PFNA**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.579e+005



**13C4-PFOS**

170928G2\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
3.016e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-6.qld

Last Altered: Monday, October 02, 2017 11:45:50 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:46:05 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: 170928G2\_6, Date: 28-Sep-2017, Time: 18:19:19, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.104	2.92	1403.9	4975.4	3.527	20.0635	
2	5 PFHpA	363 > 318.9	0.104	3.82	7436.6	8028.5	11.578	46.9406	
3	6 PFHxS	398.9 > 79.6	0.104	3.95	8442.0	4898.6	21.542	108.0714	
4	7 PFOA	413.0 > 368.7	0.104	4.23	8169.1	16111.5	6.338	61.7385	
5	8 PFNA	463.0 > 418.8	0.104	4.58	7553.7	4756.3	19.852	69.3122	
6	9 PFOS	499.0 > 79.9	0.104	4.64	4393.5	4671.5	11.756	226.6896	
7	12 13C3-PFBS	302.0 > 98.8	0.104	2.92	4975.4	15508.0	4.010	163.1962	136.1
8	15 13C4-PFHpA	367.2 > 321.8	0.104	3.82	8028.5	15508.0	6.471	138.9939	115.9
9	16 18O2-PFHxS	403 > 102.6	0.104	3.94	4898.6	10678.1	5.734	126.0803	105.1
10	17 13C2-PFOA	414.9 > 369.7	0.104	4.23	16111.5	4947.4	40.707	105.1604	87.7
11	18 13C5-PFNA	468.2 > 422.9	0.104	4.57	4756.3	5478.2	10.853	117.5461	98.0
12	20 13C8-PFOS	507.0 > 79.9	0.104	4.64	4671.5	4931.2	11.842	120.4468	100.4
13	22 13C5-PFHxA	318 > 272.9	0.104	3.31	15508.0	15508.0	12.500	119.9501	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.104	3.95	10678.1	10678.1	12.500	119.9501	100.0
15	24 13C8-PFOA	421.3 > 376	0.104	4.23	4947.4	4947.4	12.500	119.9501	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.104	4.58	5478.2	5478.2	12.500	119.9501	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.104	4.64	4931.2	4931.2	12.500	119.9501	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-6.qld

Last Altered: Monday, October 02, 2017 11:45:50 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:46:15 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

Name: 170928G2\_6, Date: 28-Sep-2017, Time: 18:19:19, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.104		8442.0	4898.6	21.542	108.0714	
2	29 Total PFOA	413.0 > 368.7	0.104		9283.4	16111.5	7.202	67.1643	
3	30 Total PFOS	499.0 > 79.9	0.104		4393.5	4671.5	11.756	226.6896	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-6.qld

Last Altered: Monday, October 02, 2017 11:45:50 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:46:05 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: 170928G2\_6, Date: 28-Sep-2017, Time: 18:19:19, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	8441.982	4898.562	21.542	MM	108.1

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	7 PFOA	413.0 > 368.7	4.23	8169.107	16111.522	6.338	MM	61.7
2	29 Total PFOA	413.0 > 368.7	4.13	1114.336	16111.522	0.865	MM	5.4

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.64	4393.470	4671.544	11.756	MM	226.7



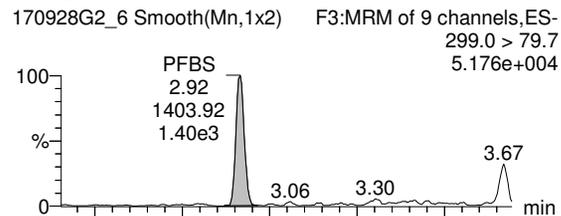
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-6.qld

Last Altered: Monday, October 02, 2017 11:45:50 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:46:05 Pacific Daylight Time

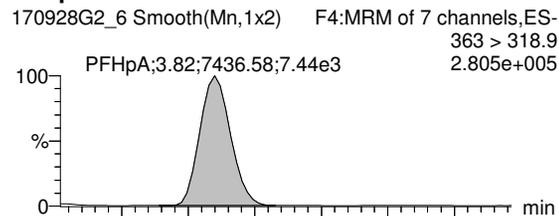
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Name: 170928G2\_6, Date: 28-Sep-2017, Time: 18:19:19, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917

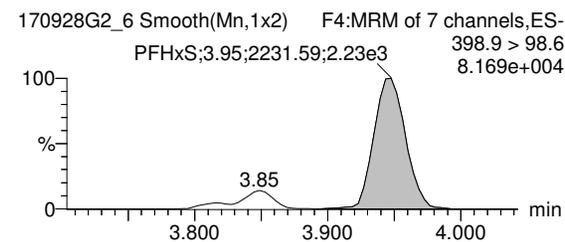
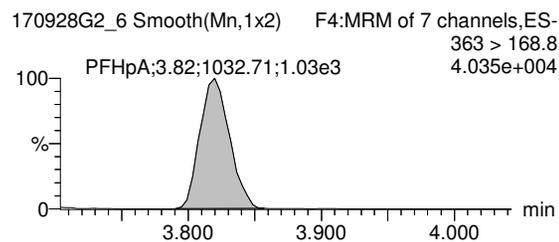
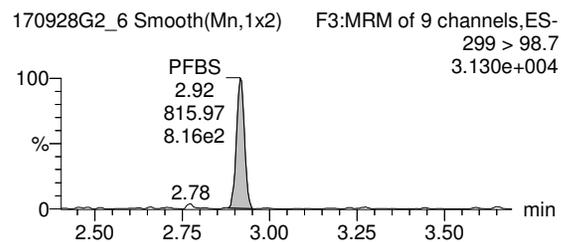
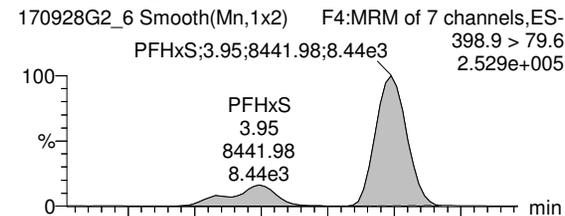
**PFBS**



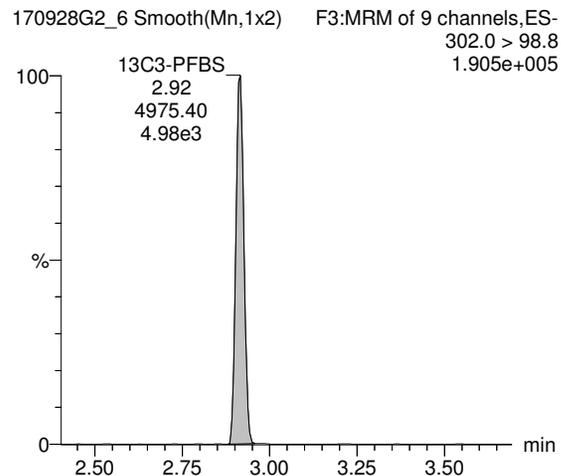
**PFHpA**



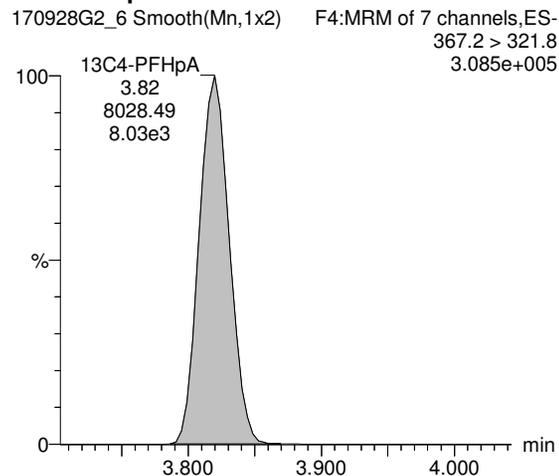
**Total PFHxS**



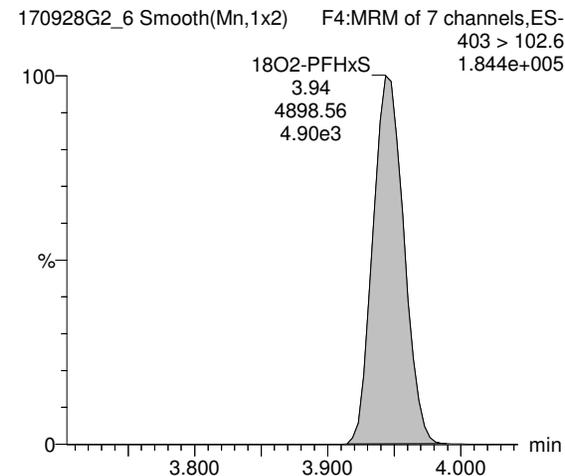
**13C3-PFBS**



**13C4-PFHpA**



**18O2-PFHxS**



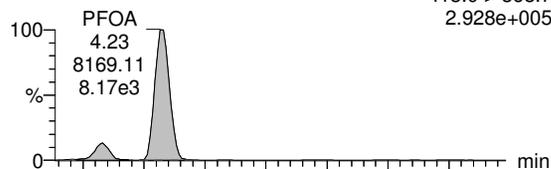
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Last Altered: Monday, October 02, 2017 11:45:50 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:46:05 Pacific Daylight Time

Name: 170928G2\_6, Date: 28-Sep-2017, Time: 18:19:19, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917

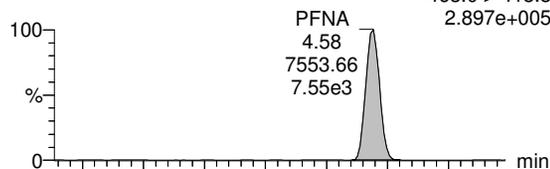
**Total PFOA**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7  
2.928e+005



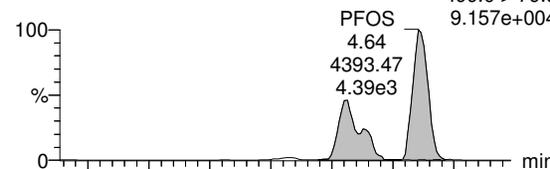
**PFNA**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8  
2.897e+005

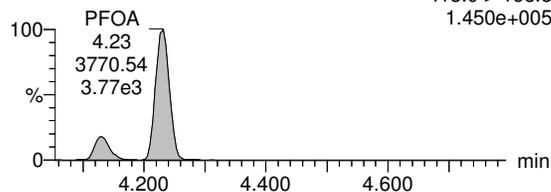


**Total PFOS**

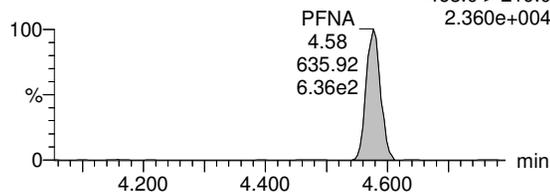
170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9  
9.157e+004



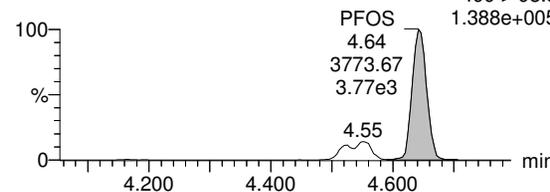
170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8  
1.450e+005



170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0  
2.360e+004

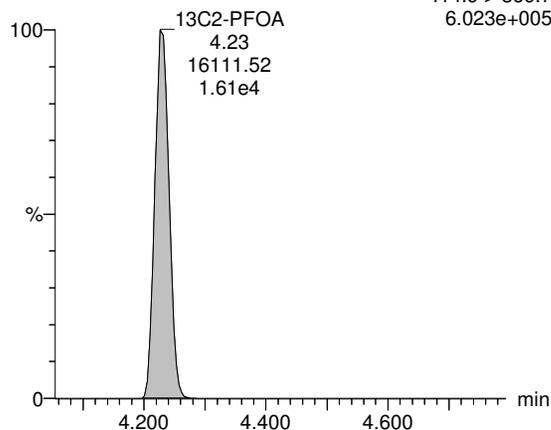


170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8  
1.388e+005



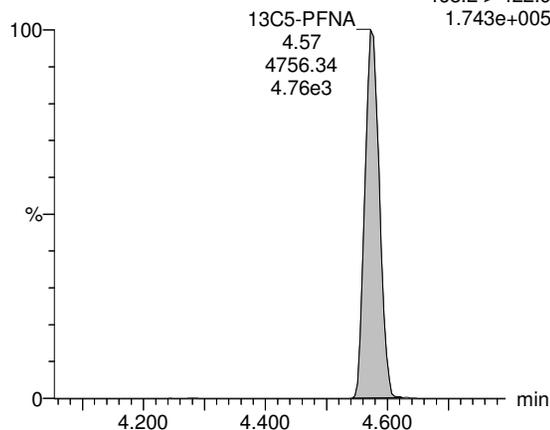
**13C2-PFOA**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7  
6.023e+005



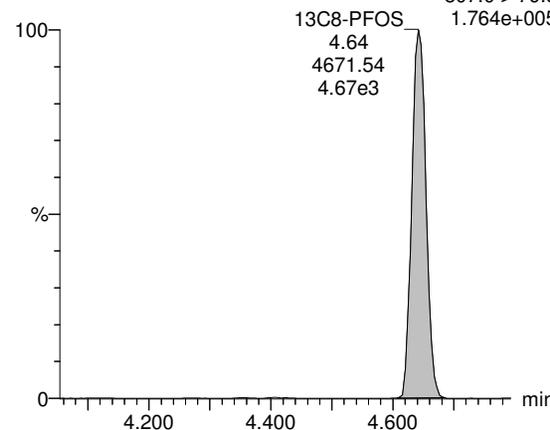
**13C5-PFNA**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9  
1.743e+005



**13C8-PFOS**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9  
1.764e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-6.qld

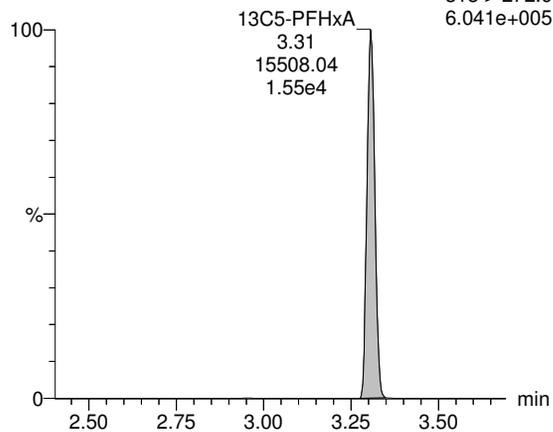
Last Altered: Monday, October 02, 2017 11:45:50 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:46:05 Pacific Daylight Time

Name: 170928G2\_6, Date: 28-Sep-2017, Time: 18:19:19, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917

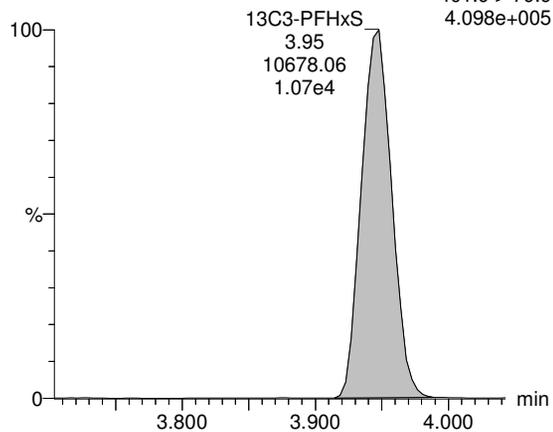
**13C5-PFHxA**

170928G2\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.041e+005



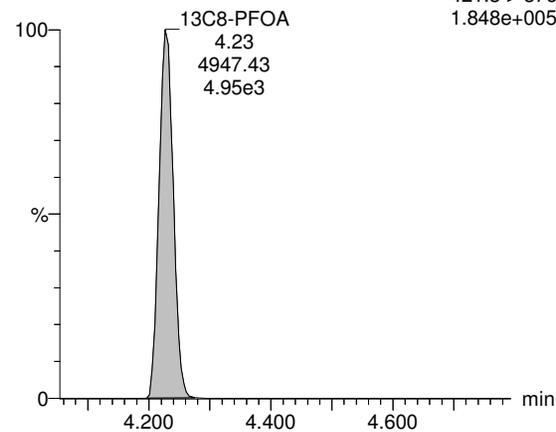
**13C3-PFHxS**

170928G2\_6 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.098e+005



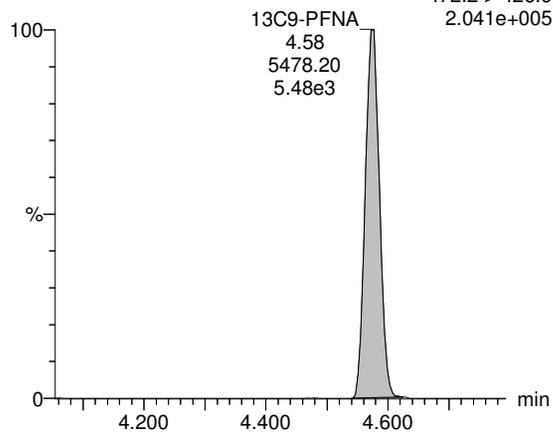
**13C8-PFOA**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.848e+005



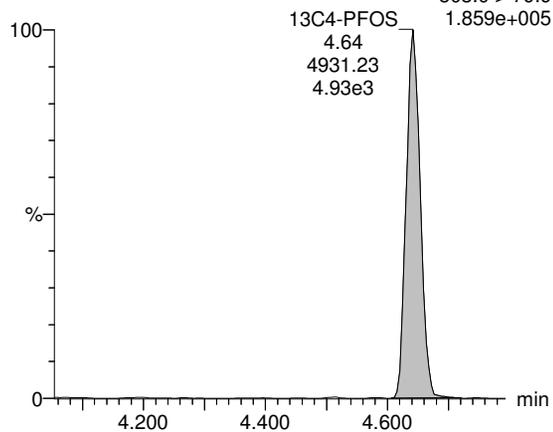
**13C9-PFNA**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.041e+005



**13C4-PFOS**

170928G2\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.859e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-7.qld

Last Altered: Monday, October 02, 2017 11:50:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:51:19 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

\*SEE DILUTION

Name: 170928G2\_7, Date: 28-Sep-2017, Time: 18:31:52, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.102	2.92	11566.6	4954.7	29.181	171.0489	
2	5 PFHpA	363 > 318.9	0.102	3.82	46618.6	7114.9	81.903	341.9959	
3	6 PFHxS	398.9 > 79.6	0.102	3.95	141428.3	3108.3	568.748	2916.4396	E*
4	7 PFOA	413.0 > 368.7	0.102	4.23	83231.1	14943.5	69.621	727.6998	
5	8 PFNA	463.0 > 418.8	0.102	4.58	13968.3	5121.3	34.094	121.6236	
6	9 PFOS	499.0 > 79.9	0.102	4.64	333264.8	2169.4	1920.216	37871.6330	E
7	12 13C3-PFBS	302.0 > 98.8	0.102	2.92	4954.7	11176.6	5.541	230.2078	188.0 H*
8	15 13C4-PFHpA	367.2 > 321.8	0.102	3.82	7114.9	11176.6	7.957	174.4802	142.5
9	16 18O2-PFHxS	403 > 102.6	0.102	3.94	3108.3	7280.5	5.337	119.7859	97.8
10	17 13C2-PFOA	414.9 > 369.7	0.102	4.23	14943.5	4788.9	39.006	102.8692	84.0
11	18 13C5-PFNA	468.2 > 422.9	0.102	4.58	5121.3	6099.9	10.495	116.0378	94.8
12	20 13C8-PFOS	507.0 > 79.9	0.102	4.64	2169.4	2215.5	12.240	127.0980	103.8
13	22 13C5-PFHxA	318 > 272.9	0.102	3.31	11176.6	11176.6	12.500	122.4530	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.102	3.94	7280.5	7280.5	12.500	122.4530	100.0
15	24 13C8-PFOA	421.3 > 376	0.102	4.23	4788.9	4788.9	12.500	122.4530	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.102	4.58	6099.9	6099.9	12.500	122.4530	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.102	4.64	2215.5	2215.5	12.500	122.4530	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-7.qld

Last Altered: Monday, October 02, 2017 11:50:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:51:26 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: 170928G2\_7, Date: 28-Sep-2017, Time: 18:31:52, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.102		141428.3	3108.3	568.748	2916.4396	
2	29 Total PFOA	413.0 > 368.7	0.102		95122.4	14943.5	79.568	828.6312	
3	30 Total PFOS	499.0 > 79.9	0.102		333264.8	2169.4	1920.216	37871.6330	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-7.qld

Last Altered: Monday, October 02, 2017 11:50:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:51:19 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: 170928G2\_7, Date: 28-Sep-2017, Time: 18:31:52, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	141428.250	3108.325	568.748	MM	2916.4

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	7 PFOA	413.0 > 368.7	4.23	83231.078	14943.546	69.621	bb	727.7
2	29 Total PFOA	413.0 > 368.7	4.13	11891.274	14943.546	9.947	bb	100.9

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.64	333264.750	2169.448	1920.216	MM	37871.6

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-7.qld

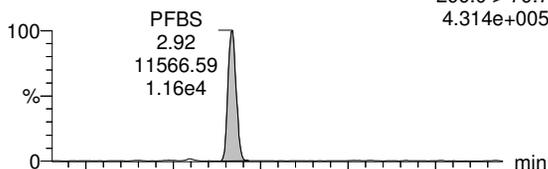
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Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

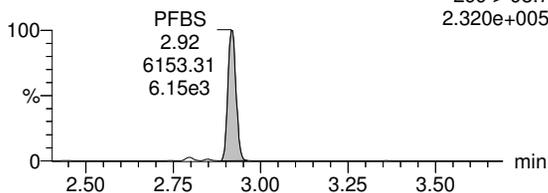
Name: 170928G2\_7, Date: 28-Sep-2017, Time: 18:31:52, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

**PFBS**

170928G2\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
4.314e+005

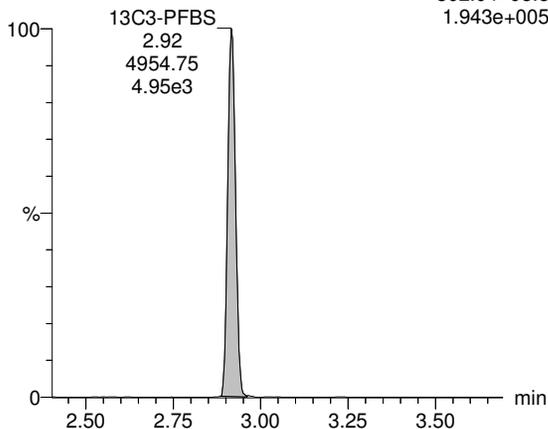


170928G2\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
2.320e+005



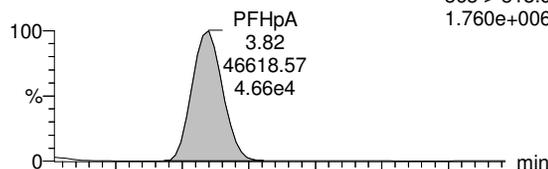
**13C3-PFBS**

170928G2\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
1.943e+005

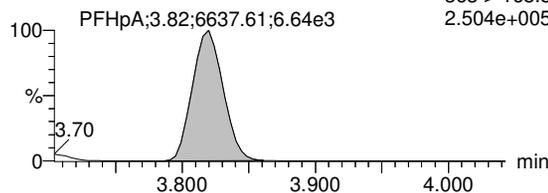


**PFHpA**

170928G2\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
363 > 318.9  
1.760e+006

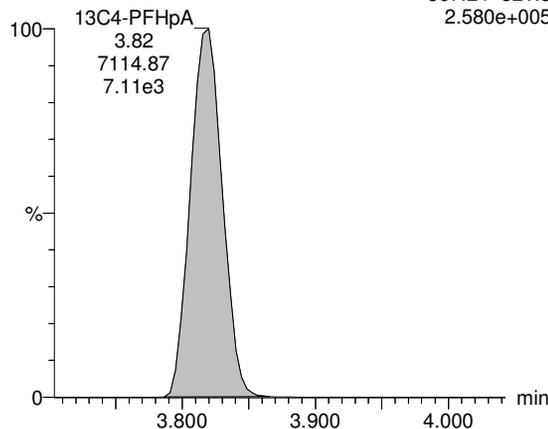


170928G2\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
363 > 168.8  
2.504e+005



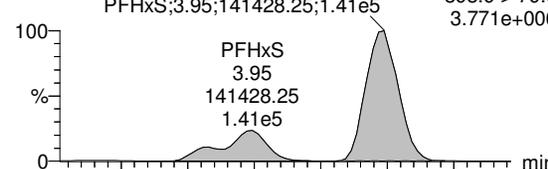
**13C4-PFHpA**

170928G2\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
367.2 > 321.8  
2.580e+005

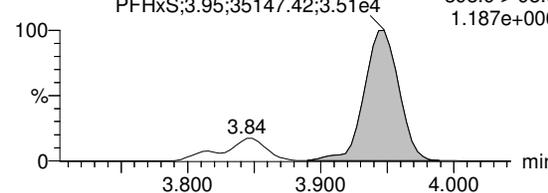


**Total PFHxS**

170928G2\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
398.9 > 79.6  
3.771e+006

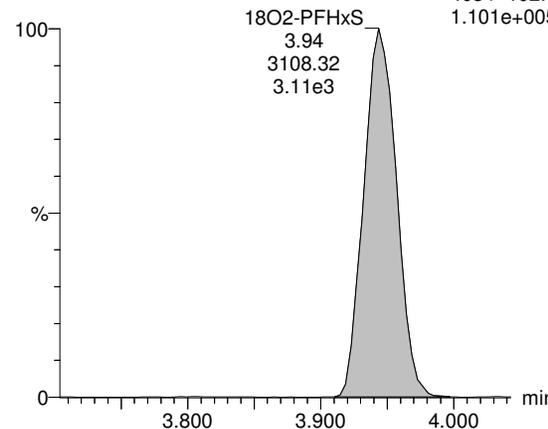


170928G2\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
398.9 > 98.6  
1.187e+006



**18O2-PFHxS**

170928G2\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
403 > 102.6  
1.101e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-7.qld

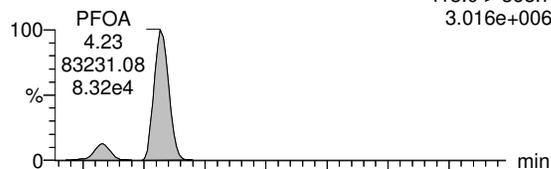
Last Altered: Monday, October 02, 2017 11:50:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:51:19 Pacific Daylight Time

Name: 170928G2\_7, Date: 28-Sep-2017, Time: 18:31:52, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

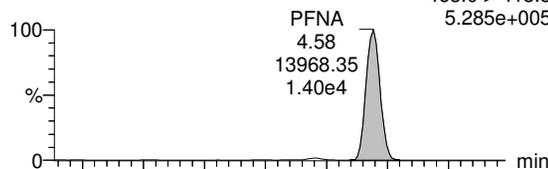
**Total PFOA**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
3.016e+006



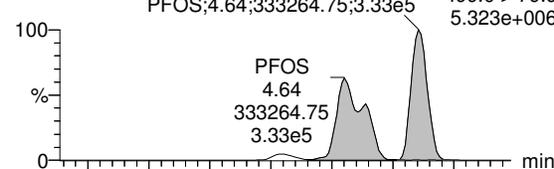
**PFNA**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
5.285e+005

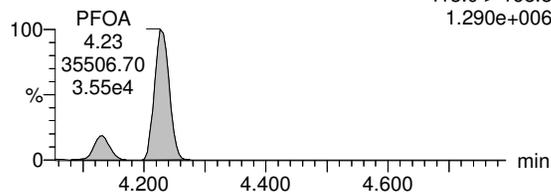


**Total PFOS**

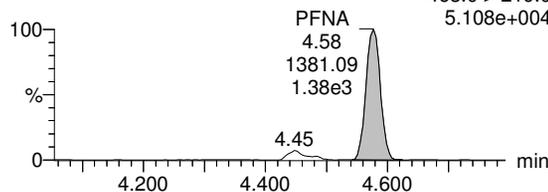
170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
5.323e+006  
PFOS;4.64;333264.75;3.33e5



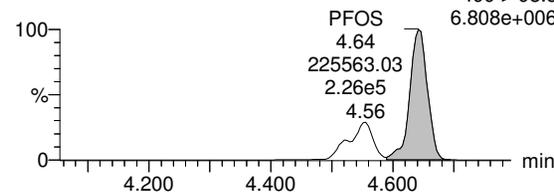
170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
1.290e+006



170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
5.108e+004

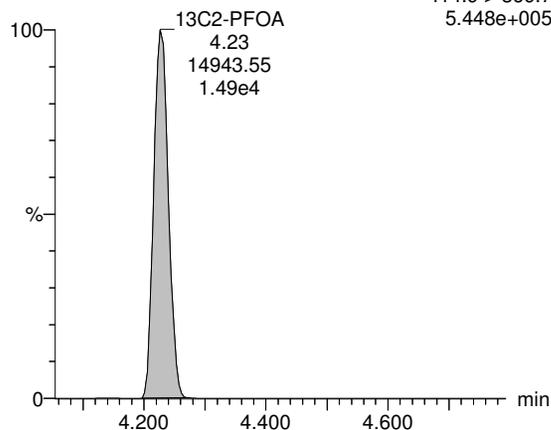


170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
6.808e+006



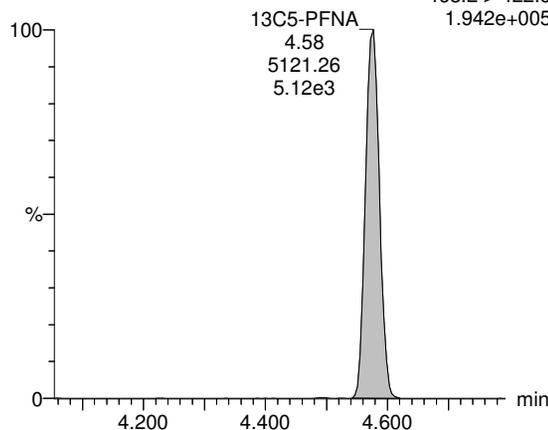
**13C2-PFOA**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
5.448e+005



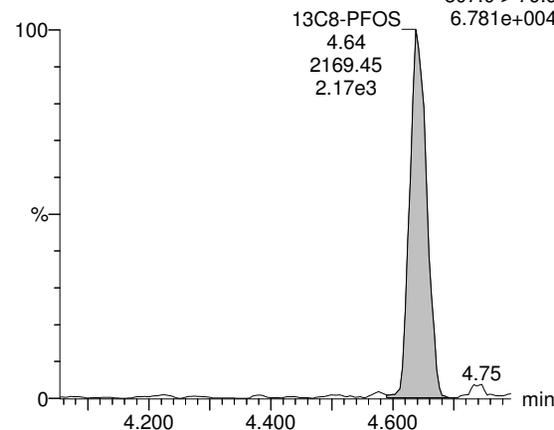
**13C5-PFNA**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
1.942e+005



**13C8-PFOS**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
6.781e+004





Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-7.qld

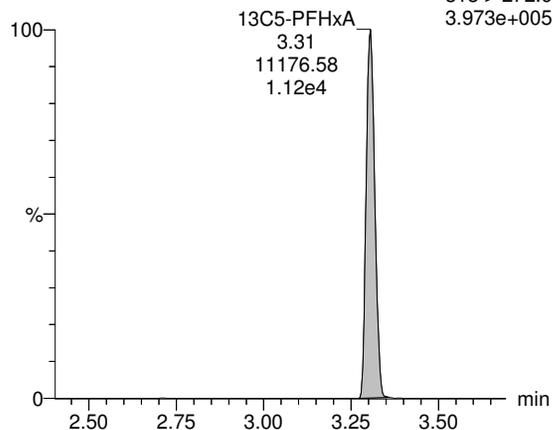
Last Altered: Monday, October 02, 2017 11:50:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:51:19 Pacific Daylight Time

Name: 170928G2\_7, Date: 28-Sep-2017, Time: 18:31:52, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

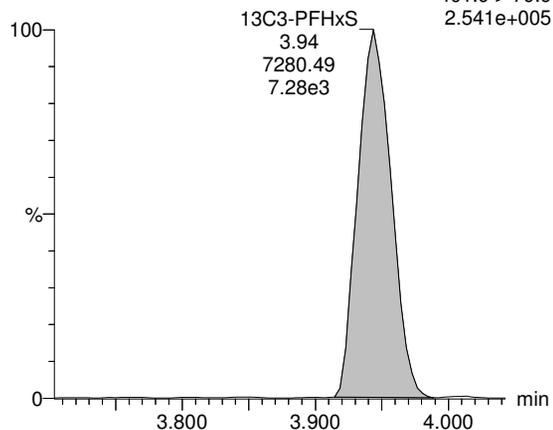
**13C5-PFHxA**

170928G2\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
3.973e+005



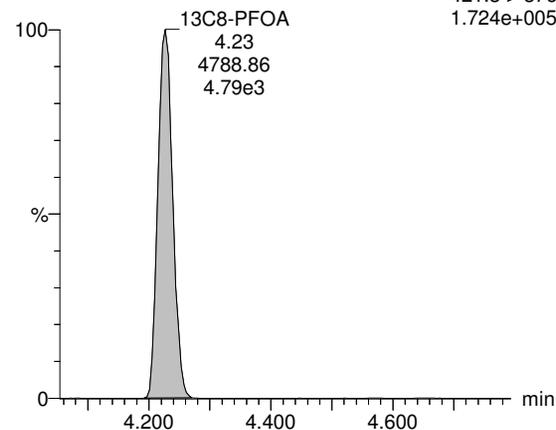
**13C3-PFHxS**

170928G2\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
2.541e+005



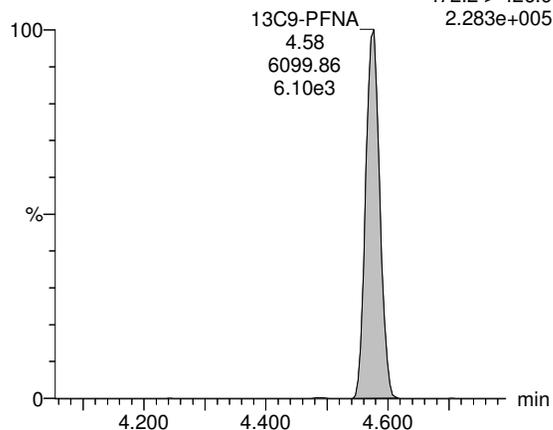
**13C8-PFOA**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.724e+005



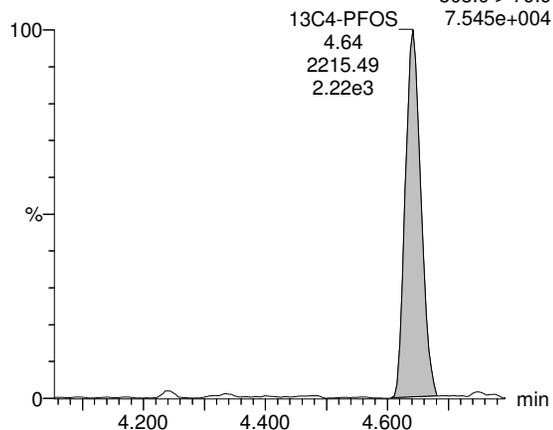
**13C9-PFNA**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.283e+005



**13C4-PFOS**

170928G2\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
7.545e+004



Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-16.qld

Last Altered: Monday, October 02, 2017 12:59:38 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:10:42 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: 170929G3\_16, Date: 29-Sep-2017, Time: 16:40:07, ID: 1701277-04@10X OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.102	2.97	272.1	195.9	17.362	101.6842	
2	6 PFHxS	398.9 > 79.6	0.102	3.98	4115.9	104.8	490.855	2517.0008	
3	12 13C3-PFBS	302.0 > 98.8	0.102	2.98	195.9	619.6	3.953	164.2087	134.1
4	16 18O2-PFHxS	403 > 102.6	0.102	3.98	104.8	173.4	7.555	169.5857	138.5
5	22 13C5-PFHxA	318>272.9	0.102	3.35	619.6	619.6	12.500	122.4530	100.0
6	23 13C3-PFHxS	401.9 > 79.9	0.102	3.98	173.4	173.4	12.500	122.4530	100.0
7	28 Total PFHxS	398.9 > 79.6	0.102		4115.9	104.8	490.855	2517.0008	

Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-16.qld

Last Altered: Monday, October 02, 2017 12:59:38 Pacific Daylight Time

Printed: Monday, October 02, 2017 13:10:42 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04

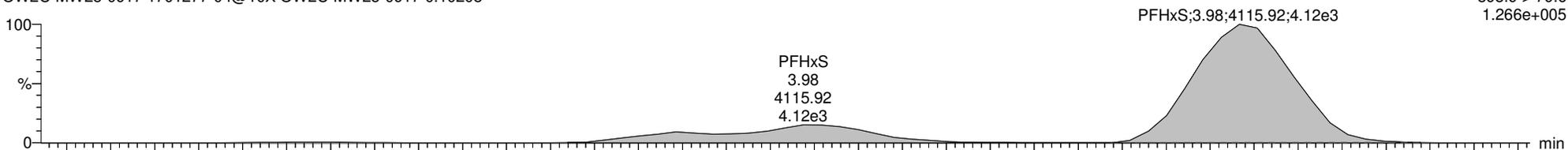
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170929G3\_16, Date: 29-Sep-2017, Time: 16:40:07, ID: 1701277-04@10X OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

**Total PFHxS**

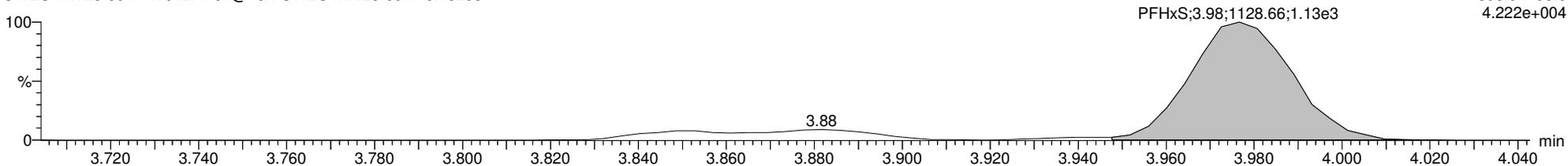
170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

F4:MRM of 7 channels,ES-  
398.9 > 79.6  
1.266e+005



170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

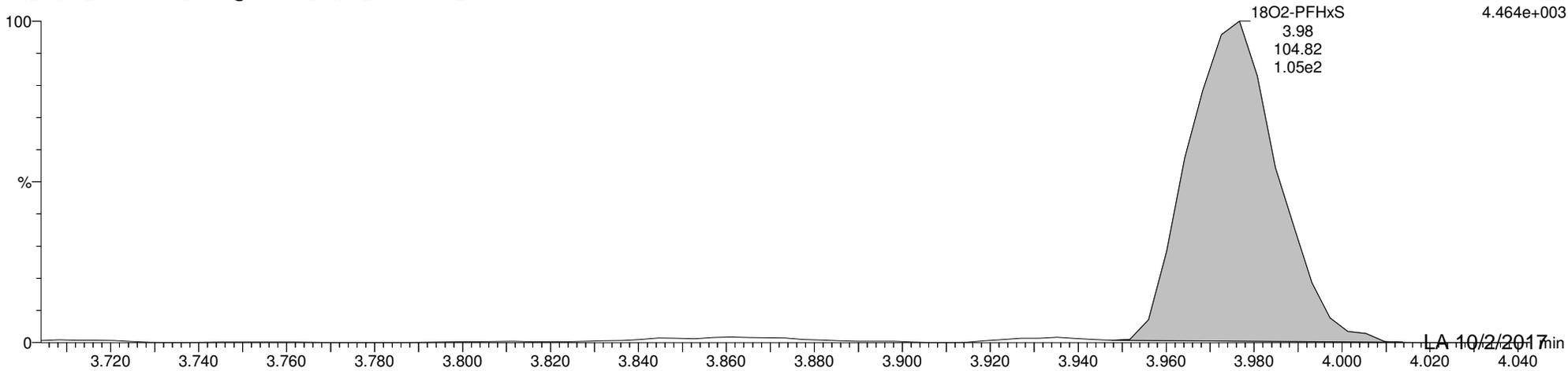
F4:MRM of 7 channels,ES-  
398.9 > 98.6  
4.222e+004



**18O2-PFHxS**

170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

F4:MRM of 7 channels,ES-  
403 > 102.6  
4.464e+003



Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-16.qld

Last Altered: Monday, October 02, 2017 12:59:38 Pacific Daylight Time

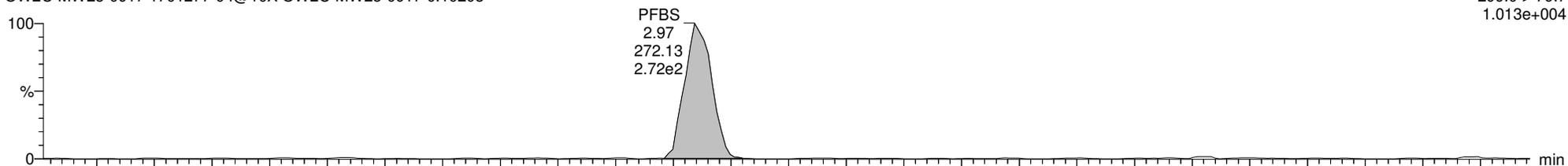
Printed: Monday, October 02, 2017 13:10:42 Pacific Daylight Time

Name: 170929G3\_16, Date: 29-Sep-2017, Time: 16:40:07, ID: 1701277-04@10X OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

**PFBS**

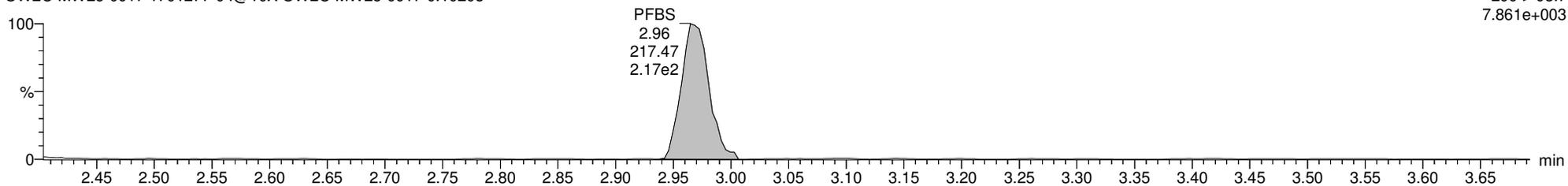
170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.013e+04



170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

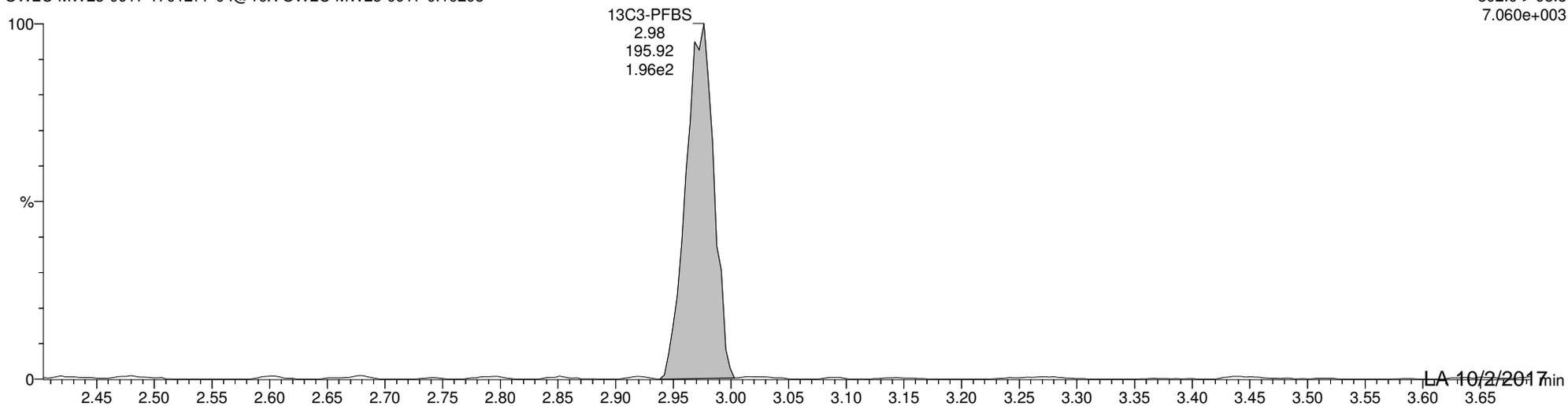
F3:MRM of 9 channels,ES-  
299 > 98.7  
7.861e+003



**13C3-PFBS**

170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

F3:MRM of 9 channels,ES-  
302.0 > 98.8  
7.060e+003



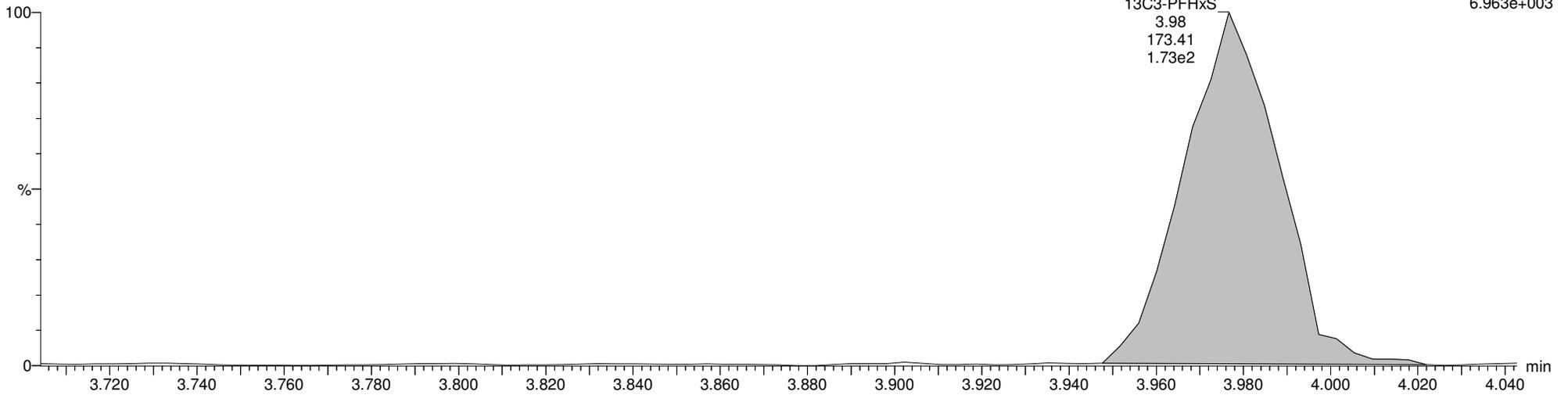
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-16.qld  
Last Altered: Monday, October 02, 2017 12:59:38 Pacific Daylight Time  
Printed: Monday, October 02, 2017 13:10:42 Pacific Daylight Time

Name: 170929G3\_16, Date: 29-Sep-2017, Time: 16:40:07, ID: 1701277-04@10X OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

**13C3-PFHxS**

170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

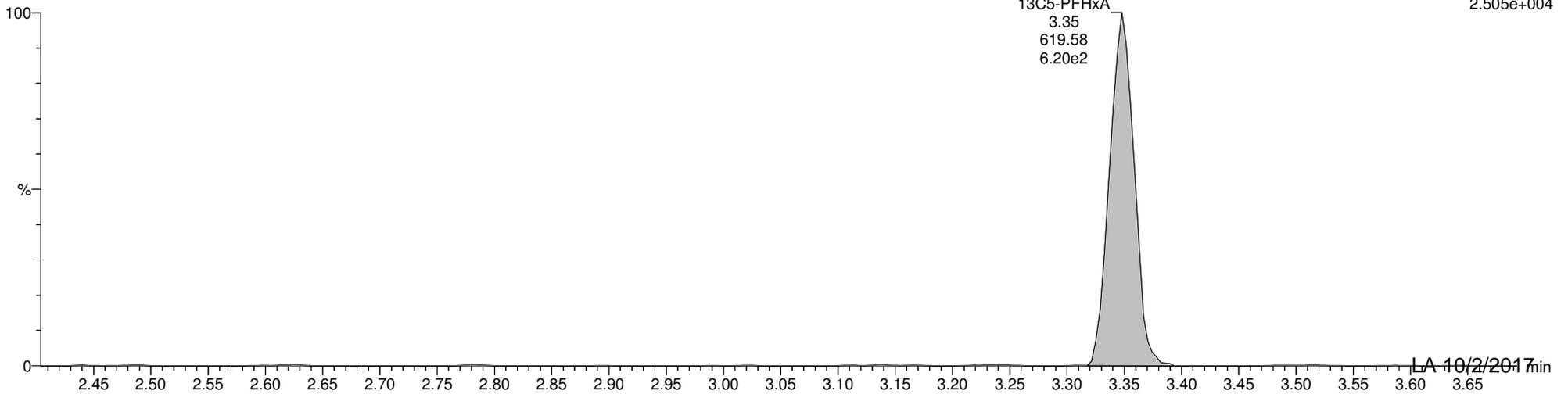
F4:MRM of 7 channels,ES-  
401.9 > 79.9  
6.963e+003



**13C5-PFHxA**

170929G3\_16 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04@10X OW2C-MW25-0917 0.10208

F3:MRM of 9 channels,ES-  
318 > 272.9  
2.505e+004



Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-14.qld

Last Altered: Monday, October 02, 2017 14:39:19 Pacific Daylight Time  
Printed: Tuesday, October 03, 2017 11:42:44 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: 170929G3\_14, Date: 29-Sep-2017, Time: 16:15:00, ID: 1701277-04RE1 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	9 PFOS	499.0 >79.9	0.00104	4.66	3208.3	5248.6	15.282	29540.2960	
2	20 13C8-PFOS	507.0 > 79.9	0.00104	4.66	5248.6	5669.0	23.146	23590.2038	98.1
3	26 13C4-PFOS	503.0 > 79.9	0.00104	4.66	5669.0	5669.0	25.000	24038.4615	100.0
4	30 Total PFOS	499.0 >79.9	0.00104		3208.3	5248.6	15.282	29540.2960	

Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-14.qld  
Last Altered: Monday, October 02, 2017 14:39:19 Pacific Daylight Time  
Printed: Tuesday, October 03, 2017 11:42:44 Pacific Daylight Time

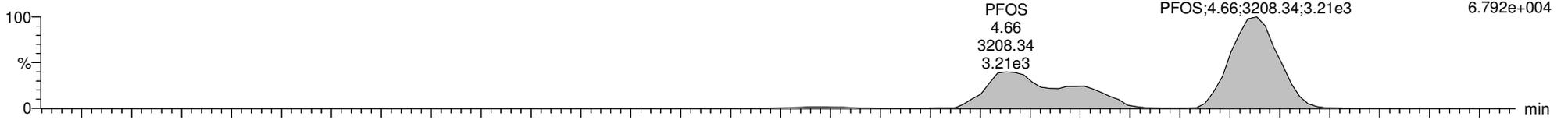
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170929G3\_14, Date: 29-Sep-2017, Time: 16:15:00, ID: 1701277-04RE1 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

**Total PFOS**

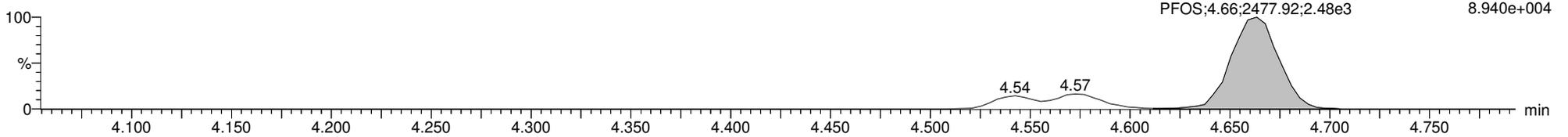
170929G3\_14 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04RE1 OW2C-MW25-0917 0.10208

F5:MRM of 12 channels,ES-  
499.0 > 79.9  
6.792e+004



170929G3\_14 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04RE1 OW2C-MW25-0917 0.10208

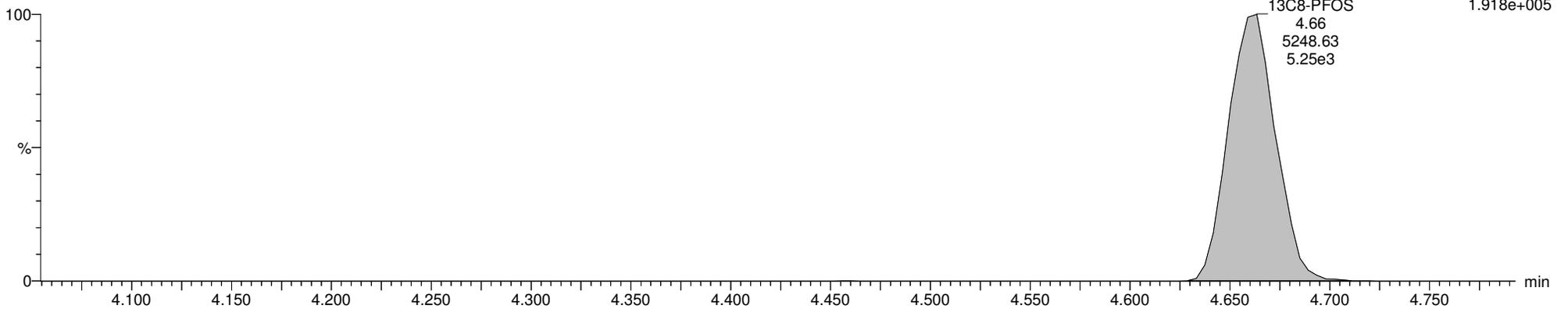
F5:MRM of 12 channels,ES-  
499 > 98.8  
8.940e+004



**13C8-PFOS**

170929G3\_14 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04RE1 OW2C-MW25-0917 0.10208

F5:MRM of 12 channels,ES-  
507.0 > 79.9  
1.918e+005



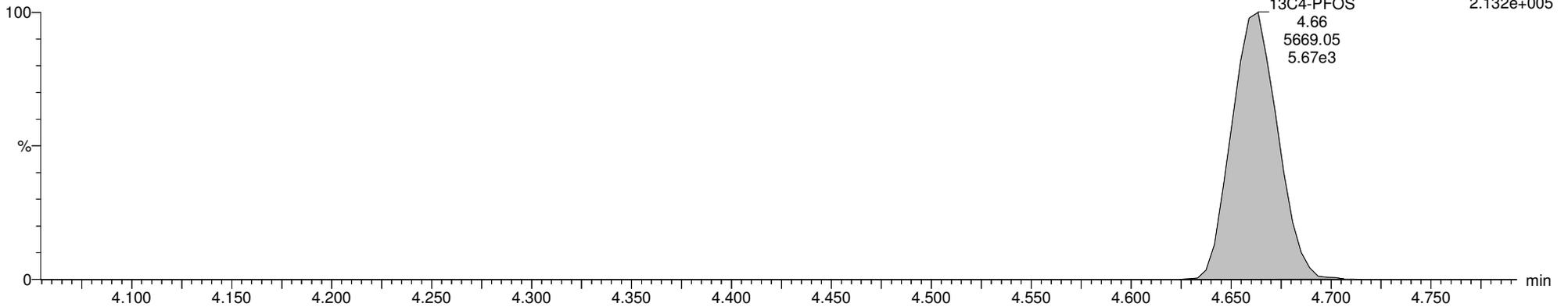
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-14.qld  
Last Altered: Monday, October 02, 2017 14:39:19 Pacific Daylight Time  
Printed: Tuesday, October 03, 2017 11:42:44 Pacific Daylight Time

Name: 170929G3\_14, Date: 29-Sep-2017, Time: 16:15:00, ID: 1701277-04RE1 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917

13C4-PFOS

170929G3\_14 Smooth(Mn,1x2)  
OW2C-MW25-0917 1701277-04RE1 OW2C-MW25-0917 0.10208

F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.132e+005





Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-9.qld

Last Altered: Monday, October 02, 2017 12:16:16 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:16:44 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: 170928G2\_9, Date: 28-Sep-2017, Time: 18:56:59, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.108	2.92	6218.7	5804.0	13.393	74.2702	
2	5 PFHpA	363 > 318.9	0.108	3.82	9450.4	9287.2	12.720	49.9242	
3	6 PFHxS	398.9 > 79.6	0.108	3.95	32190.8	5130.2	78.435	380.9530	
4	7 PFOA	413.0 > 368.7	0.108	4.23	29314.4	17804.5	20.581	201.4511	
5	8 PFNA	463.0 > 418.8	0.108	4.58	9510.5	6710.7	17.715	59.8129	
6	9 PFOS	499.0 > 79.9	0.108	4.65	30932.5	9144.0	42.285	789.7515	
7	12 13C3-PFBS	302.0 > 98.8	0.108	2.92	5804.0	18416.2	3.939	155.0591	133.6
8	15 13C4-PFHpA	367.2 > 321.8	0.108	3.82	9287.2	18416.2	6.304	130.9592	112.9
9	16 18O2-PFHxS	403 > 102.6	0.108	3.95	5130.2	11679.8	5.490	116.7619	100.6
10	17 13C2-PFOA	414.9 > 369.7	0.108	4.23	17804.5	6321.1	35.208	87.9760	75.8
11	18 13C5-PFNA	468.2 > 422.9	0.108	4.58	6710.7	8116.2	10.335	108.2729	93.3
12	20 13C8-PFOS	507.0 > 79.9	0.108	4.65	9144.0	8756.3	13.053	128.4214	110.7
13	22 13C5-PFHxA	318 > 272.9	0.108	3.31	18416.2	18416.2	12.500	116.0200	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.108	3.95	11679.8	11679.8	12.500	116.0200	100.0
15	24 13C8-PFOA	421.3 > 376	0.108	4.23	6321.1	6321.1	12.500	116.0200	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.108	4.58	8116.2	8116.2	12.500	116.0200	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.108	4.64	8756.3	8756.3	12.500	116.0200	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-9.qld

Last Altered: Monday, October 02, 2017 12:16:16 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:16:52 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: 170928G2\_9, Date: 28-Sep-2017, Time: 18:56:59, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.108		32190.8	5130.2	78.435	380.9530	
2	29 Total PFOA	413.0 > 368.7	0.108		34493.4	17804.5	24.217	234.2790	
3	30 Total PFOS	499.0 > 79.9	0.108		30932.5	9144.0	42.285	789.7515	

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-9.qld

Last Altered: Monday, October 02, 2017 12:16:16 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:16:44 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: 170928G2\_9, Date: 28-Sep-2017, Time: 18:56:59, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	32190.795	5130.202	78.435	MM	381.0

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	7 PFOA	413.0 > 368.7	4.23	29314.371	17804.482	20.581	bb	201.5
2	29 Total PFOA	413.0 > 368.7	4.13	5178.997	17804.482	3.636	bb	32.8

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.65	30932.488	9144.030	42.285	MM	789.8

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-9.qld

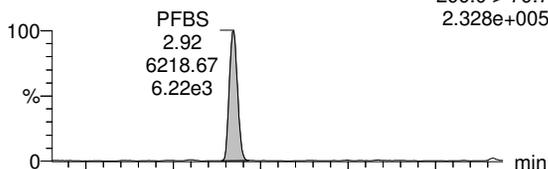
Last Altered: Monday, October 02, 2017 12:16:16 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:16:44 Pacific Daylight Time

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

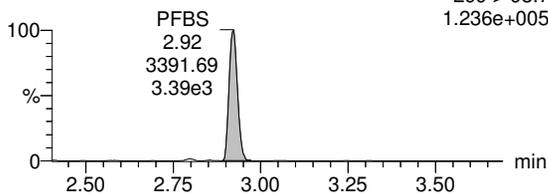
Name: 170928G2\_9, Date: 28-Sep-2017, Time: 18:56:59, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917

**PFBS**

170928G2\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
2.328e+005

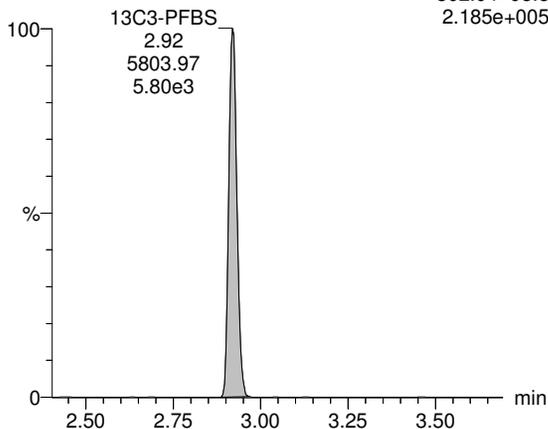


170928G2\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
1.236e+005



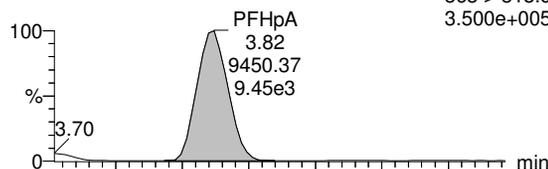
**13C3-PFBS**

170928G2\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
2.185e+005

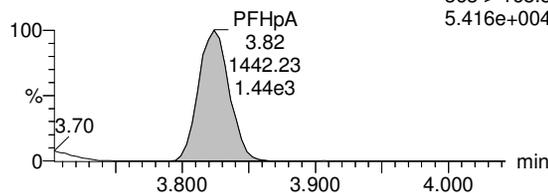


**PFHpA**

170928G2\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
363 > 318.9  
3.500e+005

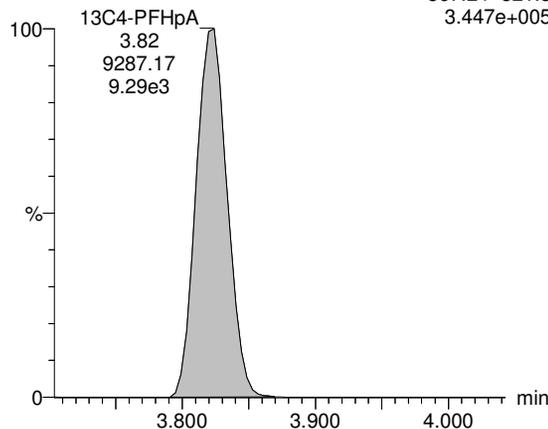


170928G2\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
363 > 168.8  
5.416e+004



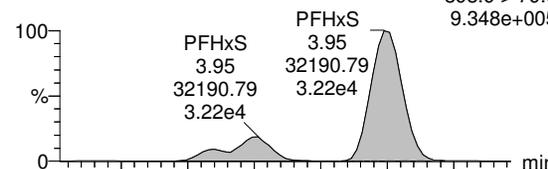
**13C4-PFHpA**

170928G2\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
367.2 > 321.8  
3.447e+005

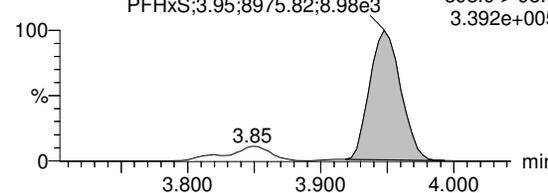


**Total PFHxS**

170928G2\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
398.9 > 79.6  
9.348e+005

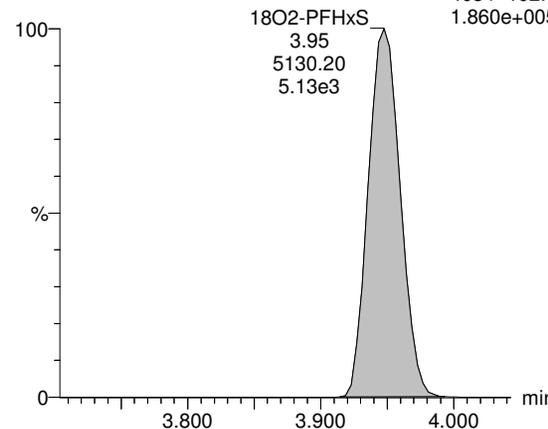


170928G2\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
398.9 > 98.6  
3.392e+005



**18O2-PFHxS**

170928G2\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
403 > 102.6  
1.860e+005

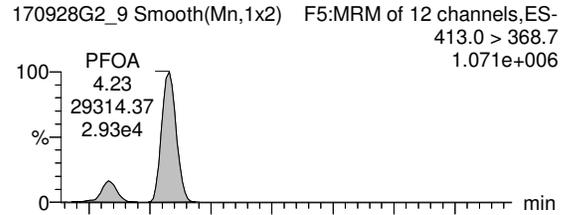


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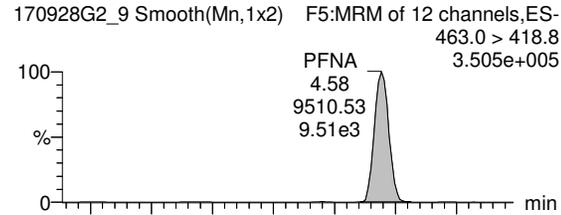
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Printed: Monday, October 02, 2017 12:16:44 Pacific Daylight Time

Name: 170928G2\_9, Date: 28-Sep-2017, Time: 18:56:59, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917

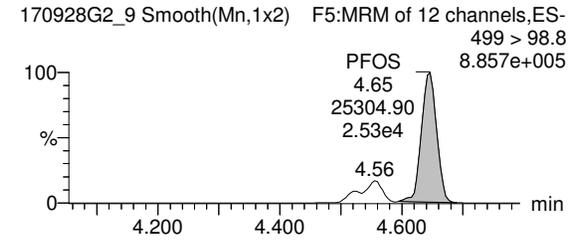
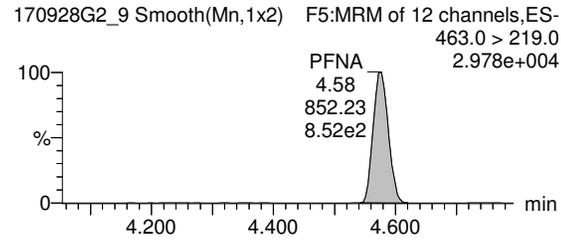
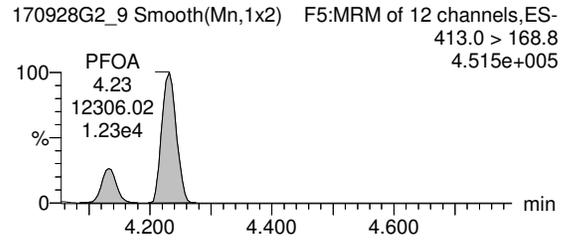
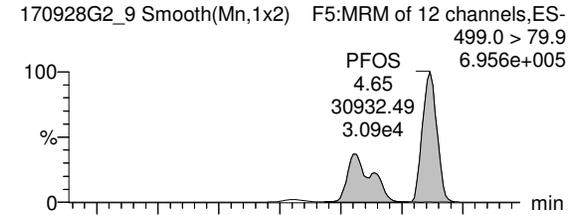
**Total PFOA**



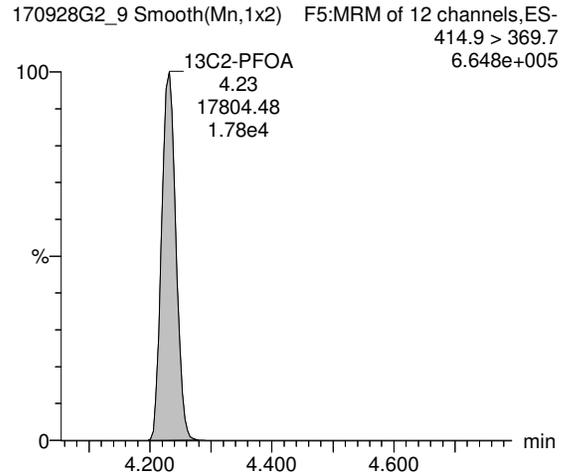
**PFNA**



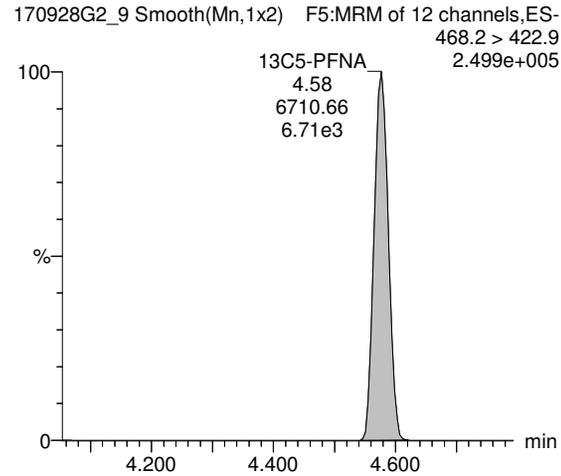
**Total PFOS**



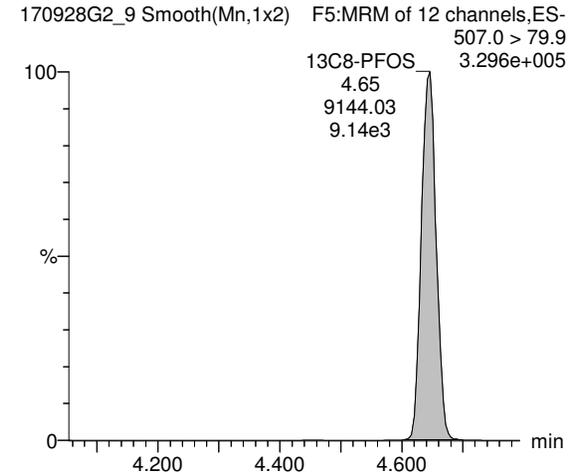
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



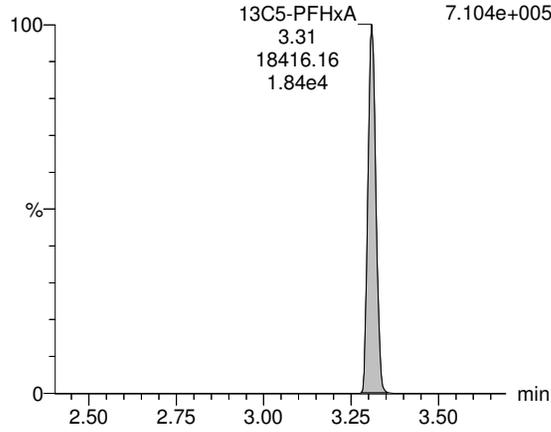
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Last Altered: Monday, October 02, 2017 12:16:16 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:16:44 Pacific Daylight Time

Name: 170928G2\_9, Date: 28-Sep-2017, Time: 18:56:59, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917

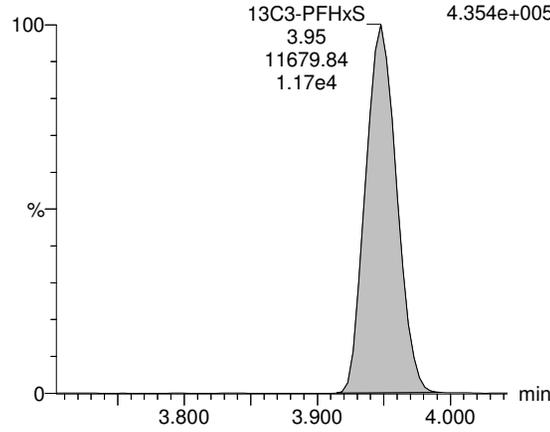
**13C5-PFHxA**

170928G2\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-318 > 272.9  
7.104e+005



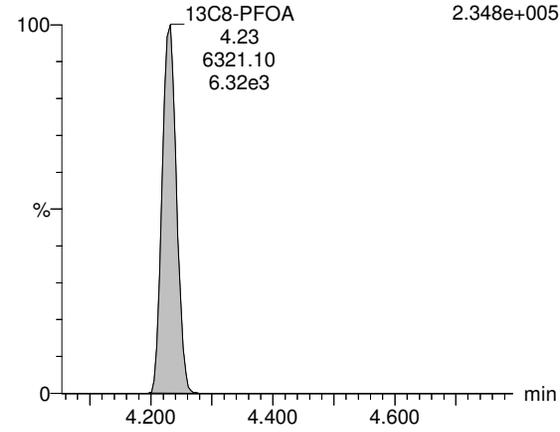
**13C3-PFHxS**

170928G2\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-401.9 > 79.9  
4.354e+005



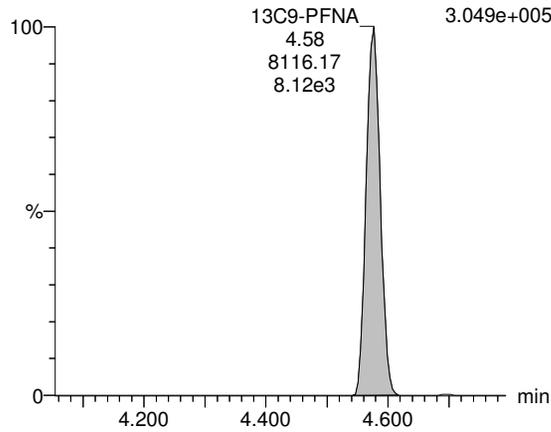
**13C8-PFOA**

170928G2\_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-421.3 > 376  
2.348e+005



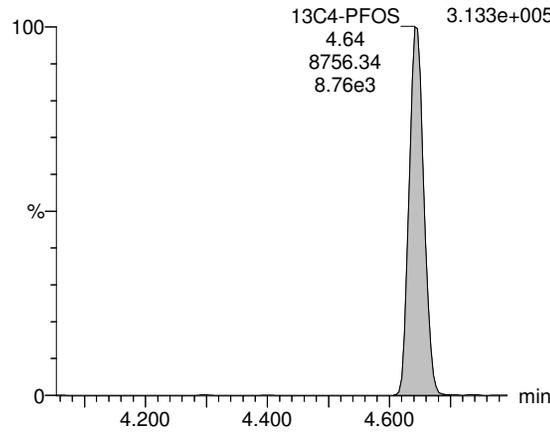
**13C9-PFNA**

170928G2\_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-472.2 > 426.9  
3.049e+005



**13C4-PFOS**

170928G2\_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-503.0 > 79.9  
3.133e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-10.qld

Last Altered: Monday, October 02, 2017 12:20:52 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:21:12 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: 170928G2\_10, Date: 28-Sep-2017, Time: 19:09:33, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.109	2.92	1208.7	5485.3	2.754	14.8756	
2	5 PFHpA	363 > 318.9	0.109	3.82	6872.0	9007.7	9.536	36.7356	
3	6 PFHxS	398.9 > 79.6	0.109	3.95	7749.4	5232.1	18.514	88.4316	
4	7 PFOA	413.0 > 368.7	0.109	4.23	132581.2	13544.1	122.361	1195.5463	
5	8 PFNA	463.0 > 418.8	0.109	4.58	879.7	6360.5	1.729	5.6303	
6	9 PFOS	499.0 > 79.9	0.109	4.65	2523.7	6326.8	4.986	91.3260	
7	12 13C3-PFBS	302.0 > 98.8	0.109	2.92	5485.3	16649.5	4.118	159.5925	139.7
8	15 13C4-PFHpA	367.2 > 321.8	0.109	3.82	9007.7	16649.5	6.763	138.3253	121.1
9	16 18O2-PFHxS	403 > 102.6	0.109	3.94	5232.1	11578.1	5.649	118.2725	103.5
10	17 13C2-PFOA	414.9 > 369.7	0.109	4.23	13544.1	4583.5	36.937	90.8698	79.6
11	18 13C5-PFNA	468.2 > 422.9	0.109	4.58	6360.5	7487.8	10.618	109.5184	95.9
12	20 13C8-PFOS	507.0 > 79.9	0.109	4.64	6326.8	6630.8	11.927	115.5256	101.1
13	22 13C5-PFHxA	318 > 272.9	0.109	3.31	16649.5	16649.5	12.500	114.2283	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.109	3.95	11578.1	11578.1	12.500	114.2283	100.0
15	24 13C8-PFOA	421.3 > 376	0.109	4.23	4583.5	4583.5	12.500	114.2283	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.109	4.58	7487.8	7487.8	12.500	114.2283	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.109	4.64	6630.8	6630.8	12.500	114.2283	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-10.qld

Last Altered: Monday, October 02, 2017 12:20:52 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:21:17 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: 170928G2\_10, Date: 28-Sep-2017, Time: 19:09:33, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.109		7749.4	5232.1	18.514	88.4316	
2	29 Total PFOA	413.0 > 368.7	0.109		168493.5	13544.1	155.505	1516.9760	
3	30 Total PFOS	499.0 > 79.9	0.109		2523.7	6326.8	4.986	91.3260	



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-10.qld

Last Altered: Monday, October 02, 2017 12:20:52 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:21:12 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: 170928G2\_10, Date: 28-Sep-2017, Time: 19:09:33, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	7749.376	5232.093	18.514	MM	88.4

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	29 Total PFOA	413.0 > 368.7	4.13	35912.355	13544.100	33.144	bb	321.4
2	7 PFOA	413.0 > 368.7	4.23	132581.172	13544.100	122.361	bb	1195.5

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.65	2523.740	6326.796	4.986	MM	91.3

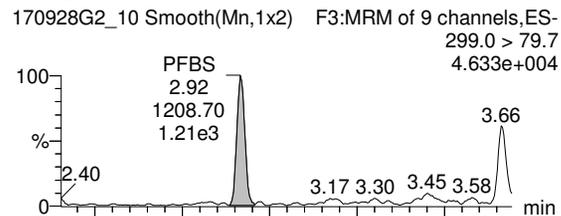
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Last Altered: Monday, October 02, 2017 12:20:52 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:21:12 Pacific Daylight Time

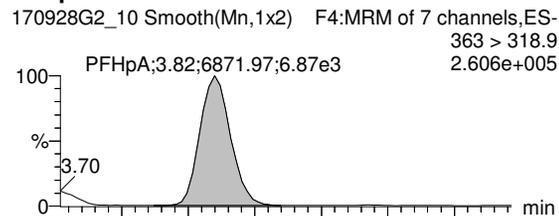
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G2\_10, Date: 28-Sep-2017, Time: 19:09:33, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917

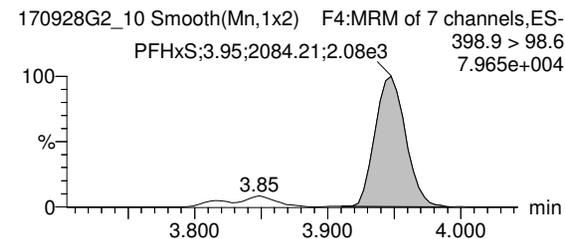
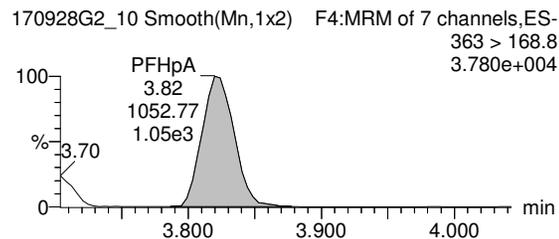
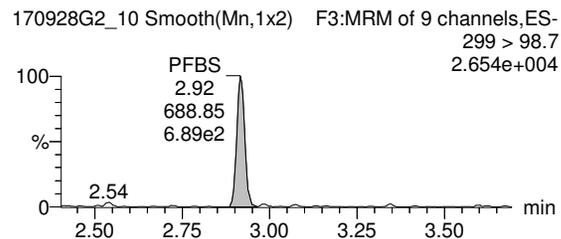
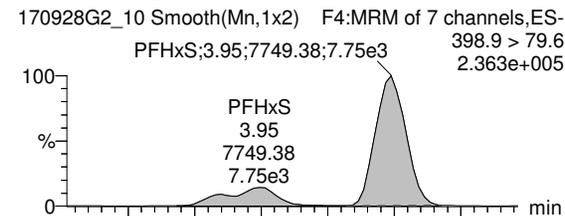
**PFBS**



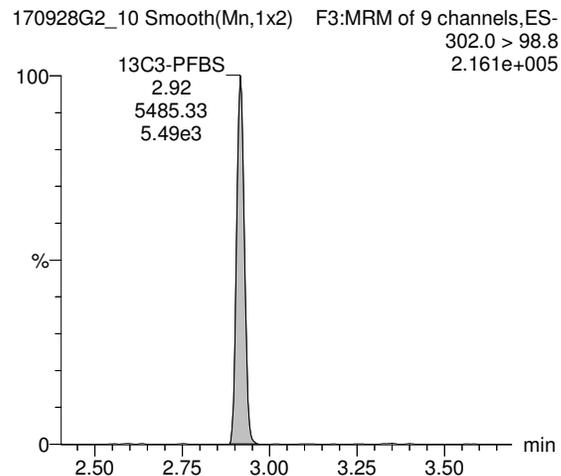
**PFHpA**



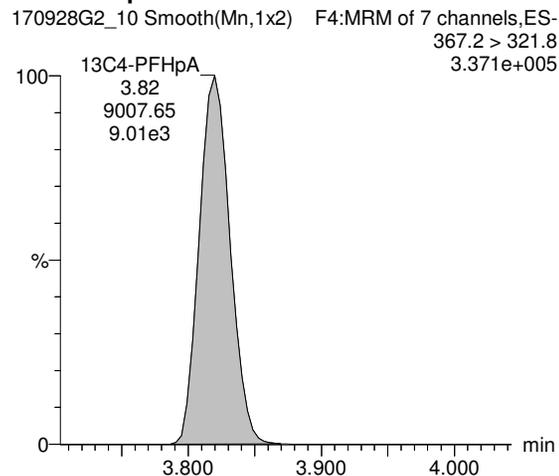
**Total PFHxS**



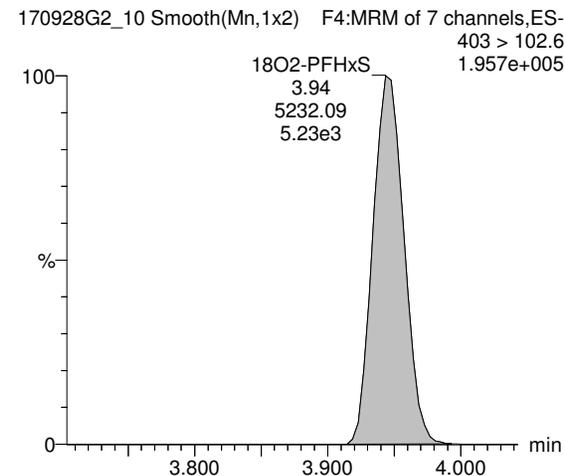
**13C3-PFBS**



**13C4-PFHpA**



**18O2-PFHxS**



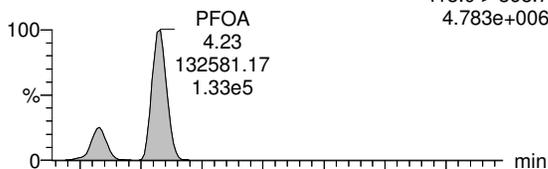
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Last Altered: Monday, October 02, 2017 12:20:52 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:21:12 Pacific Daylight Time

Name: 170928G2\_10, Date: 28-Sep-2017, Time: 19:09:33, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917

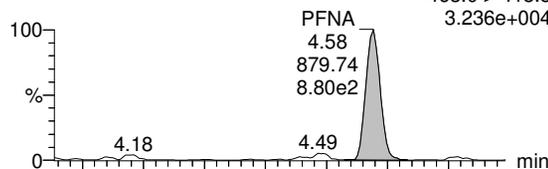
**Total PFOA**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
4.783e+006



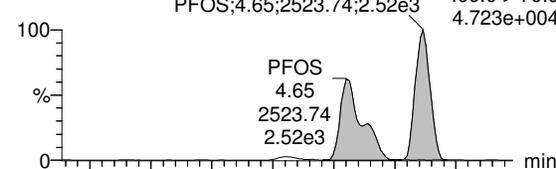
**PFNA**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
3.236e+004

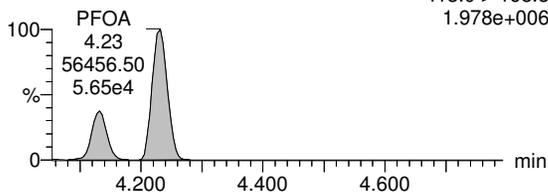


**Total PFOS**

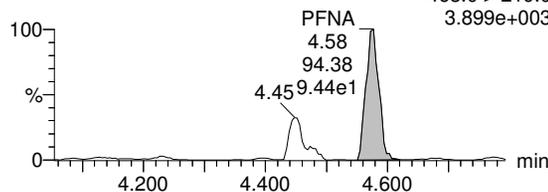
170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
4.723e+004



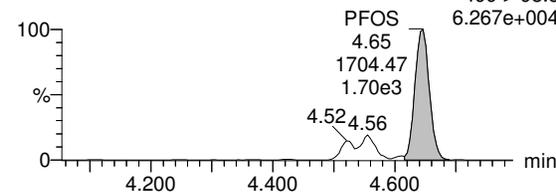
170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
1.978e+006



170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
3.899e+003

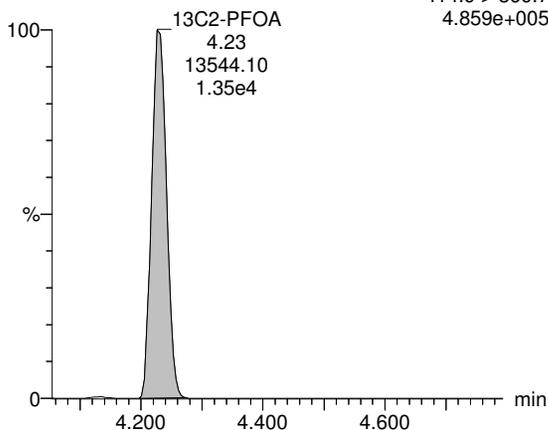


170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
6.267e+004



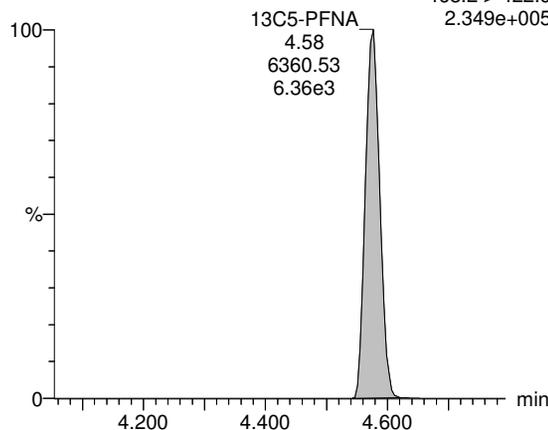
**13C2-PFOA**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
4.859e+005



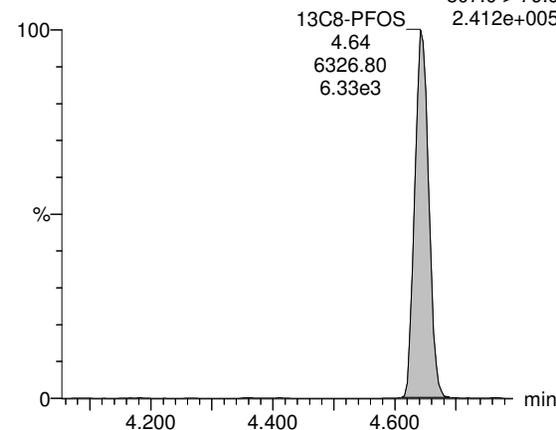
**13C5-PFNA**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.349e+005



**13C8-PFOS**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.412e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-10.qld

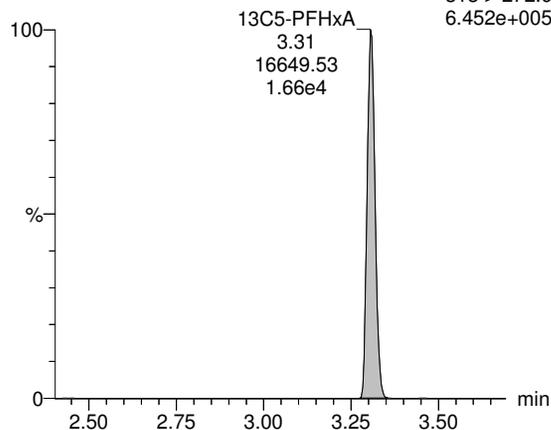
Last Altered: Monday, October 02, 2017 12:20:52 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:21:12 Pacific Daylight Time

Name: 170928G2\_10, Date: 28-Sep-2017, Time: 19:09:33, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917

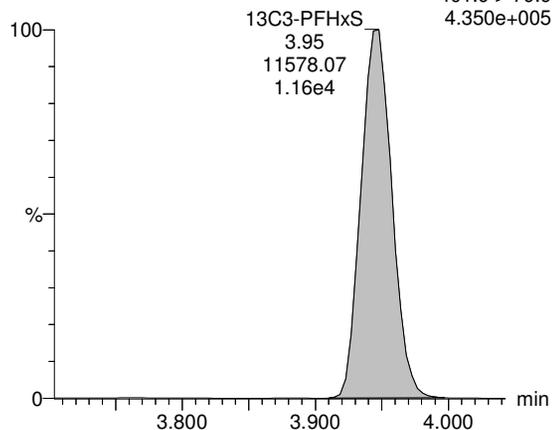
**13C5-PFHxA**

170928G2\_10 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.452e+005



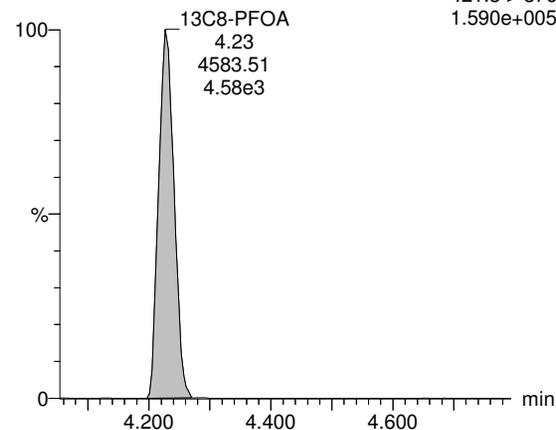
**13C3-PFHxS**

170928G2\_10 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.350e+005



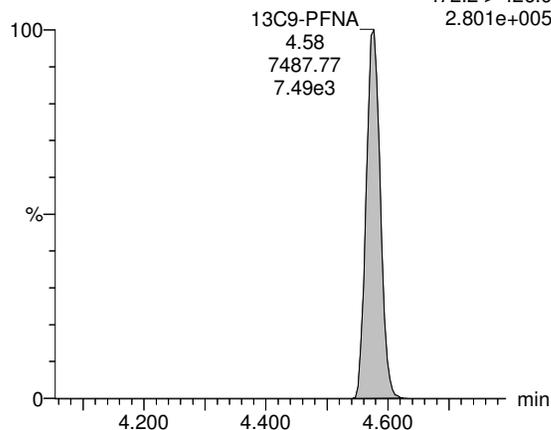
**13C8-PFOA**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.590e+005



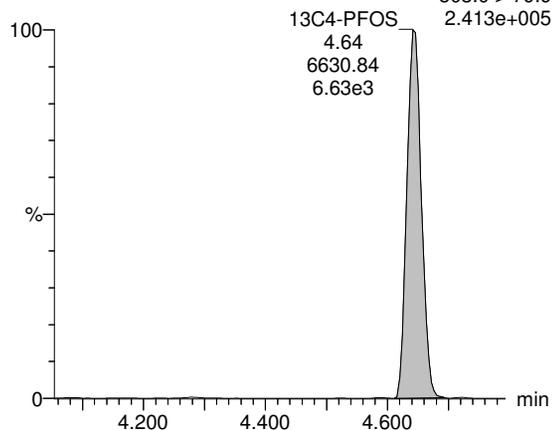
**13C9-PFNA**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.801e+005



**13C4-PFOS**

170928G2\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.413e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-12.qld

Last Altered: Monday, October 02, 2017 12:28:32 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:29:29 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: 170928G2\_12, Date: 28-Sep-2017, Time: 19:34:37, ID: B7I0112-MS1 Matrix Spike 0.1171, Description: Matrix Spike

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.117	2.92	9510.9	6068.1	19.592	100.0495	
2	5 PFHpA	363 > 318.9	0.117	3.82	26021.3	10147.9	32.053	116.4088	
3	6 PFHxS	398.9 > 79.6	0.117	3.95	18230.3	5945.9	38.325	171.2025	
4	7 PFOA	413.0 > 368.7	0.117	4.23	172659.7	16371.4	131.831	1203.9451	
5	8 PFNA	463.0 > 418.8	0.117	4.58	17059.1	8297.4	25.700	79.8892	
6	9 PFOS	499.0 > 79.9	0.117	4.65	7359.7	10384.6	8.859	151.9281	
7	12 13C3-PFBS	302.0 > 98.8	0.117	2.92	6068.1	18775.0	4.040	146.3060	137.1
8	15 13C4-PFHpA	367.2 > 321.8	0.117	3.82	10147.9	18775.0	6.756	129.1411	121.0
9	16 18O2-PFHxS	403 > 102.6	0.117	3.95	5945.9	12862.3	5.778	113.0636	105.9
10	17 13C2-PFOA	414.9 > 369.7	0.117	4.23	16371.4	5235.3	39.089	89.8650	84.2
11	18 13C5-PFNA	468.2 > 422.9	0.117	4.58	8297.4	9370.3	11.069	106.6877	99.9
12	20 13C8-PFOS	507.0 > 79.9	0.117	4.65	10384.6	10775.8	12.046	109.0387	102.1
13	22 13C5-PFHxA	318 > 272.9	0.117	3.31	18775.0	18775.0	12.500	106.7464	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.117	3.95	12862.3	12862.3	12.500	106.7464	100.0
15	24 13C8-PFOA	421.3 > 376	0.117	4.23	5235.3	5235.3	12.500	106.7464	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.117	4.58	9370.3	9370.3	12.500	106.7464	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.117	4.65	10775.8	10775.8	12.500	106.7464	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-12.qld

Last Altered: Monday, October 02, 2017 12:28:32 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:29:34 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: 170928G2\_12, Date: 28-Sep-2017, Time: 19:34:37, ID: B7I0112-MS1 Matrix Spike 0.1171, Description: Matrix Spike

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.117		18230.3	5945.9	38.325	171.2025	
2	29 Total PFOA	413.0 > 368.7	0.117		217162.3	16371.4	165.810	1511.9678	
3	30 Total PFOS	499.0 > 79.9	0.117		7359.7	10384.6	8.859	151.9281	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-12.qld

Last Altered: Monday, October 02, 2017 12:28:32 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:29:29 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: 170928G2\_12, Date: 28-Sep-2017, Time: 19:34:37, ID: B710112-MS1 Matrix Spike 0.1171, Description: Matrix Spike

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	18230.297	5945.887	38.325	MM	171.2

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	7 PFOA	413.0 > 368.7	4.23	172659.656	16371.354	131.831	bb	1203.9
2	29 Total PFOA	413.0 > 368.7	4.13	44502.648	16371.354	33.979	bb	308.0

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.65	7359.720	10384.597	8.859	MM	151.9

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-12.qld

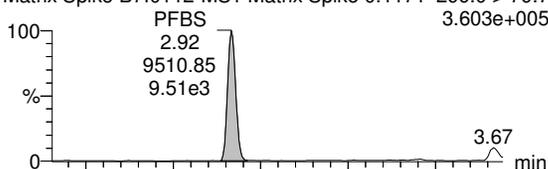
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Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G2\_12, Date: 28-Sep-2017, Time: 19:34:37, ID: B7I0112-MS1 Matrix Spike 0.1171, Description: Matrix Spike

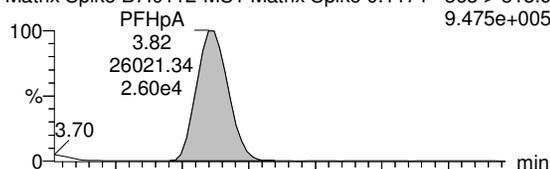
**PFBS**

170928G2\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 299.0 > 79.7  
3.603e+005



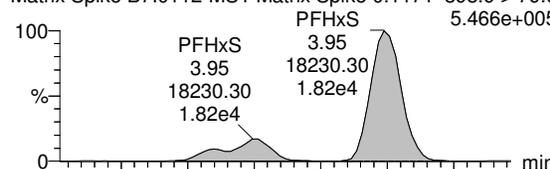
**PFHpA**

170928G2\_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 363 > 318.9  
9.475e+005

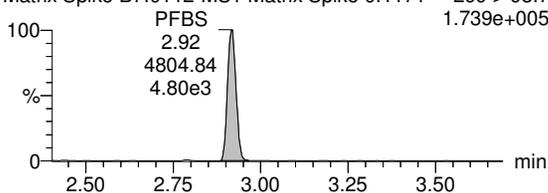


**Total PFHxS**

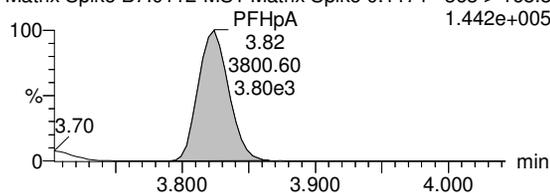
170928G2\_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 398.9 > 79.6  
5.466e+005



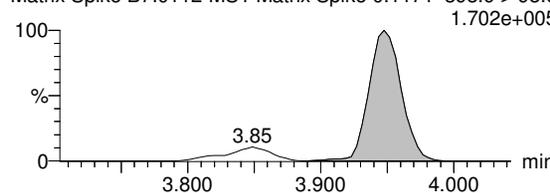
170928G2\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 299 > 98.7  
1.739e+005



170928G2\_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 363 > 168.8  
1.442e+005

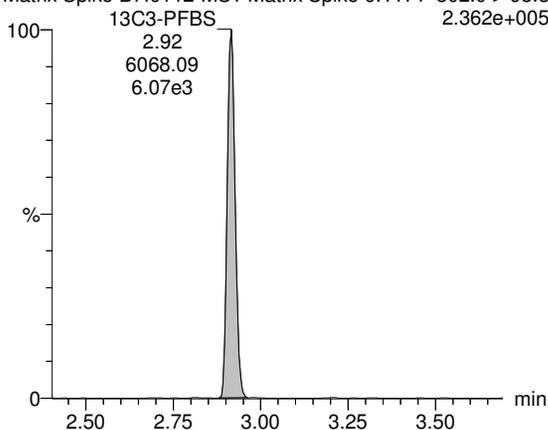


170928G2\_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 398.9 > 98.6  
1.702e+005



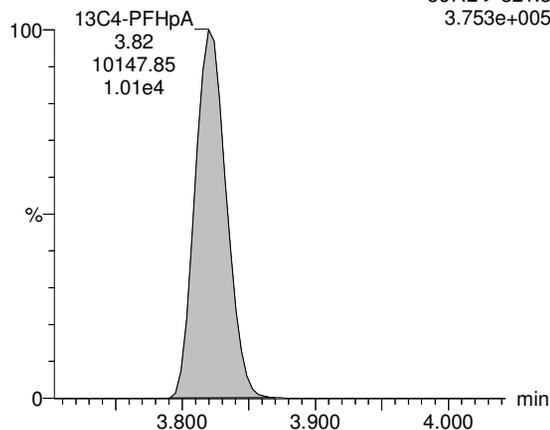
**13C3-PFBS**

170928G2\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 302.0 > 98.8  
2.362e+005



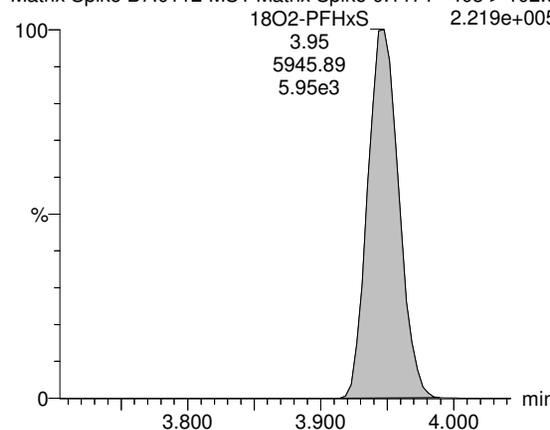
**13C4-PFHpA**

170928G2\_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 367.2 > 321.8  
3.753e+005



**18O2-PFHxS**

170928G2\_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 403 > 102.6  
2.219e+005





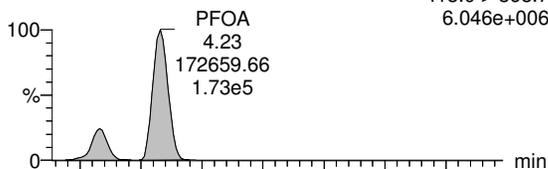
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-12.qld

Last Altered: Monday, October 02, 2017 12:28:32 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:29:29 Pacific Daylight Time

Name: 170928G2\_12, Date: 28-Sep-2017, Time: 19:34:37, ID: B710112-MS1 Matrix Spike 0.1171, Description: Matrix Spike

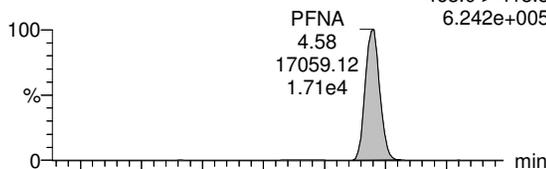
**Total PFOA**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
6.046e+006



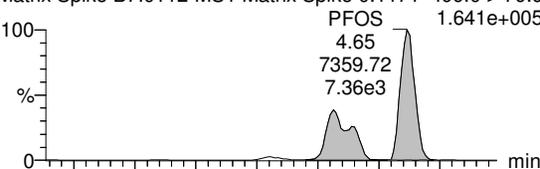
**PFNA**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
6.242e+005

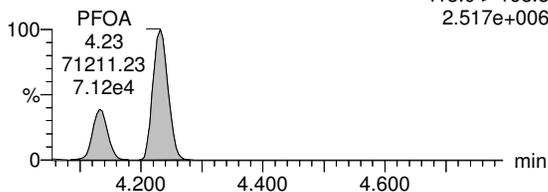


**Total PFOS**

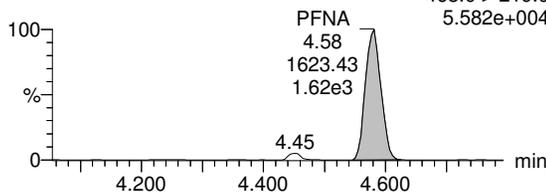
170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
Matrix Spike B710112-MS1 Matrix Spike 0.1171 499.0 > 79.9  
1.641e+005



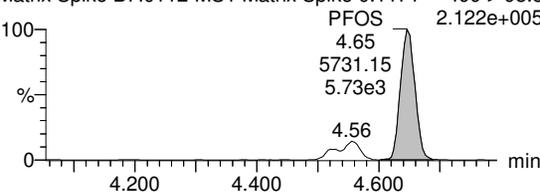
170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
2.517e+006



170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
5.582e+004

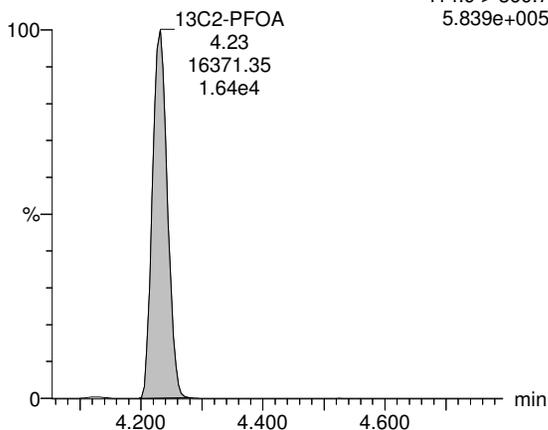


170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
Matrix Spike B710112-MS1 Matrix Spike 0.1171 499 > 98.8  
2.122e+005



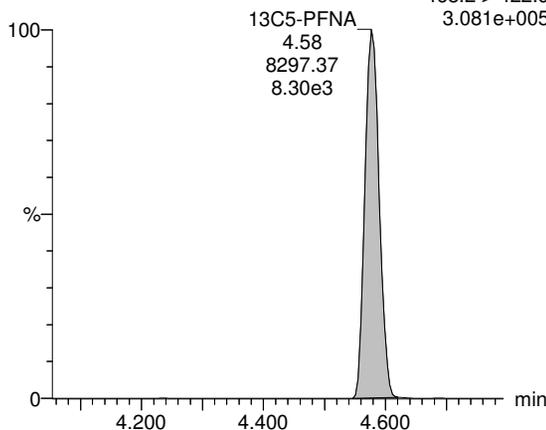
**13C2-PFOA**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
5.839e+005



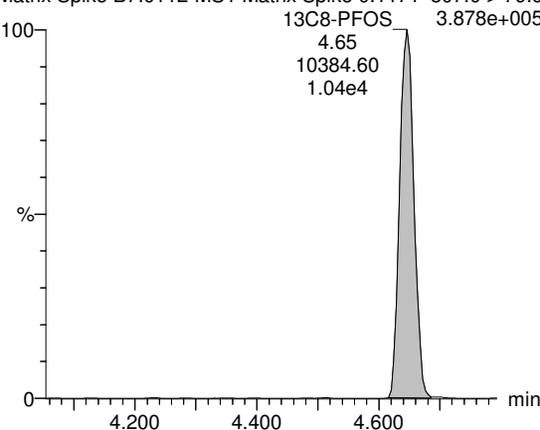
**13C5-PFNA**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
3.081e+005



**13C8-PFOS**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
Matrix Spike B710112-MS1 Matrix Spike 0.1171 507.0 > 79.9  
3.878e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-12.qld

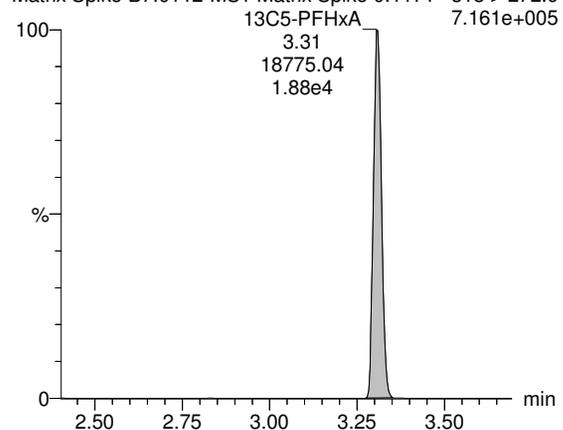
Last Altered: Monday, October 02, 2017 12:28:32 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:29:29 Pacific Daylight Time

Name: 170928G2\_12, Date: 28-Sep-2017, Time: 19:34:37, ID: B7I0112-MS1 Matrix Spike 0.1171, Description: Matrix Spike

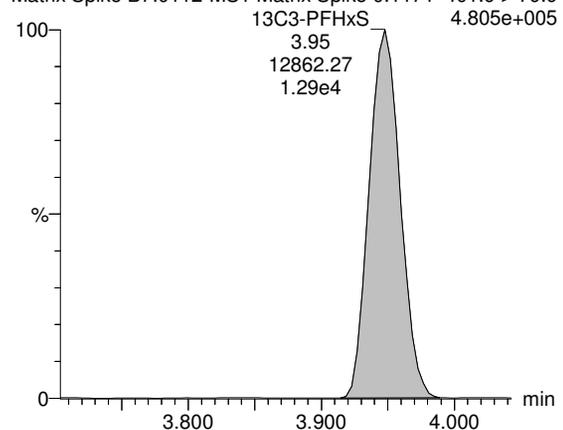
**13C5-PFHxA**

170928G2\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 318 > 272.9



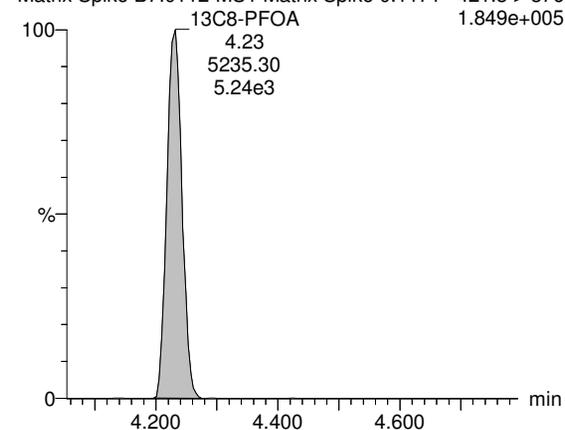
**13C3-PFHxS**

170928G2\_12 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 401.9 > 79.9



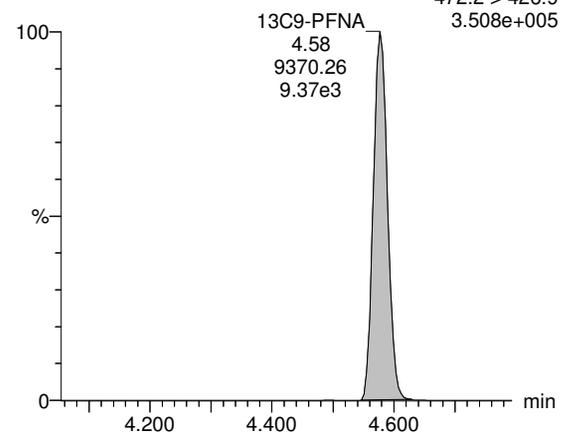
**13C8-PFOA**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 421.3 > 376



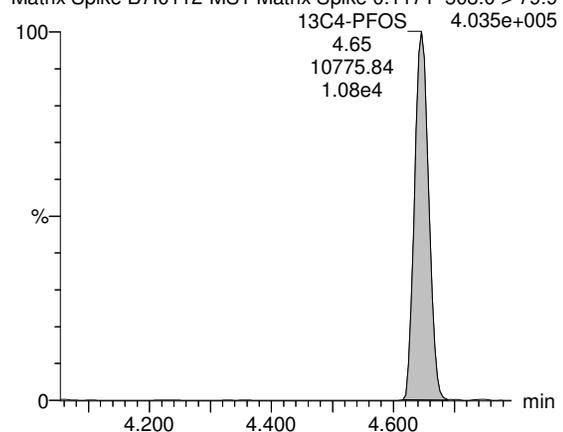
**13C9-PFNA**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 472.2 > 426.9



**13C4-PFOS**

170928G2\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
Matrix Spike B7I0112-MS1 Matrix Spike 0.1171 503.0 > 79.9



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-13.qld

Last Altered: Monday, October 02, 2017 12:33:27 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:33:53 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

Name: 170928G2\_13, Date: 28-Sep-2017, Time: 19:47:12, ID: B7I0112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.115	2.92	8477.6	5370.9	19.730	102.3924	
2	5 PFHpA	363 > 318.9	0.115	3.82	23737.2	9253.9	32.064	118.3385	
3	6 PFHxS	398.9 > 79.6	0.115	3.95	16884.2	5492.8	38.424	174.4272	
4	7 PFOA	413.0 > 368.7	0.115	4.23	180174.3	14435.3	156.019	1448.5470	
5	8 PFNA	463.0 > 418.8	0.115	4.58	16300.9	7324.3	27.820	87.8943	
6	9 PFOS	499.0 > 79.9	0.115	4.65	7279.1	9236.8	9.851	171.7229	
7	12 13C3-PFBS	302.0 > 98.8	0.115	2.92	5370.9	18147.4	3.700	136.1502	125.5
8	15 13C4-PFHpA	367.2 > 321.8	0.115	3.82	9253.9	18147.4	6.374	123.8152	114.1
9	16 18O2-PFHxS	403 > 102.6	0.115	3.95	5492.8	12622.7	5.439	108.1568	99.7
10	17 13C2-PFOA	414.9 > 369.7	0.115	4.23	14435.3	4729.1	38.155	89.1419	82.2
11	18 13C5-PFNA	468.2 > 422.9	0.115	4.58	7324.3	8604.9	10.640	104.2163	96.1
12	20 13C8-PFOS	507.0 > 79.9	0.115	4.65	9236.8	10467.7	11.030	101.4621	93.5
13	22 13C5-PFHxA	318 > 272.9	0.115	3.31	18147.4	18147.4	12.500	108.4787	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.115	3.95	12622.7	12622.7	12.500	108.4787	100.0
15	24 13C8-PFOA	421.3 > 376	0.115	4.23	4729.1	4729.1	12.500	108.4787	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.115	4.58	8604.9	8604.9	12.500	108.4787	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.115	4.65	10467.7	10467.7	12.500	108.4787	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-13.qld

Last Altered: Monday, October 02, 2017 12:33:27 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:33:58 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: 170928G2\_13, Date: 28-Sep-2017, Time: 19:47:12, ID: B7I0112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.115		16884.2	5492.8	38.424	174.4272	
2	29 Total PFOA	413.0 > 368.7	0.115		224358.6	14435.3	194.280	1801.4071	
3	30 Total PFOS	499.0 > 79.9	0.115		7279.1	9236.8	9.851	171.7229	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-13.qld

Last Altered: Monday, October 02, 2017 12:33:27 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:33:53 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

Name: 170928G2\_13, Date: 28-Sep-2017, Time: 19:47:12, ID: B710112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	16884.172	5492.762	38.424	MM	174.4

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	29 Total PFOA	413.0 > 368.7	4.13	44184.254	14435.263	38.261	bb	352.9
2	7 PFOA	413.0 > 368.7	4.23	180174.344	14435.263	156.019	bb	1448.5

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	9 PFOS	499.0 > 79.9	4.65	7279.144	9236.778	9.851	MM	171.7

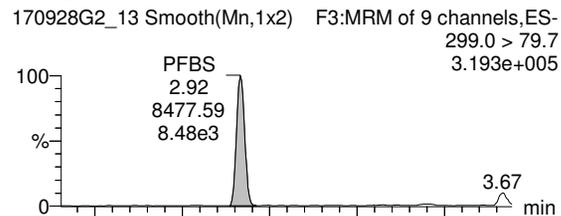
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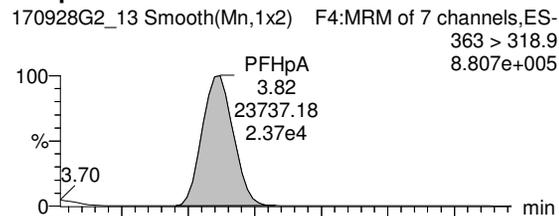
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
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Name: 170928G2\_13, Date: 28-Sep-2017, Time: 19:47:12, ID: B710112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup

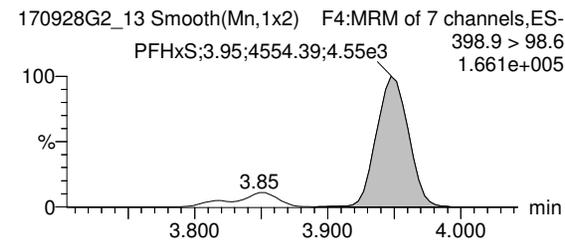
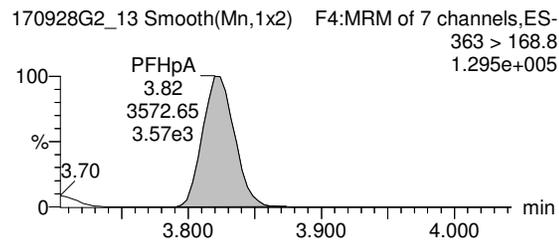
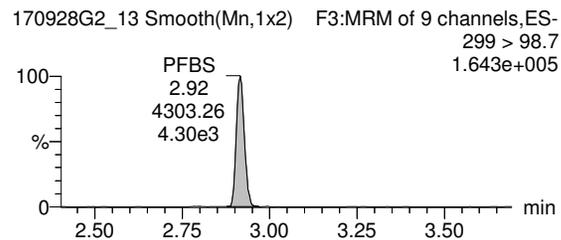
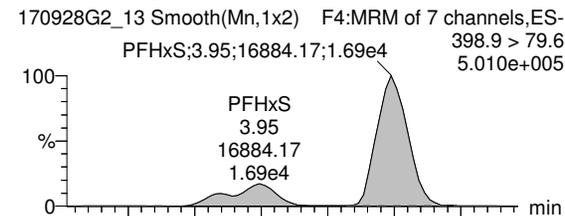
**PFBS**



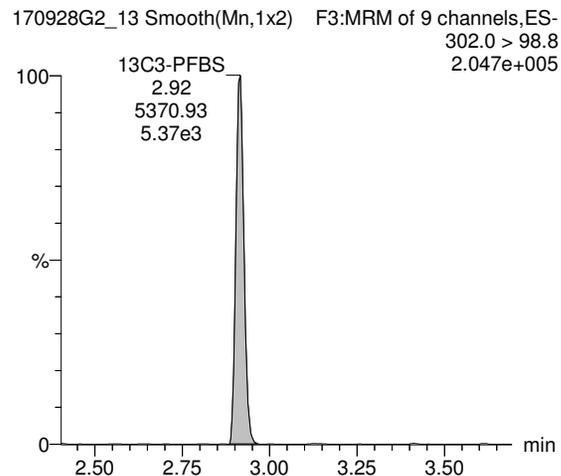
**PFHpA**



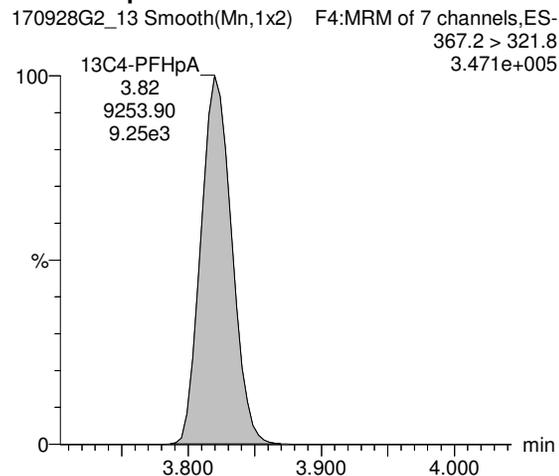
**Total PFHxS**



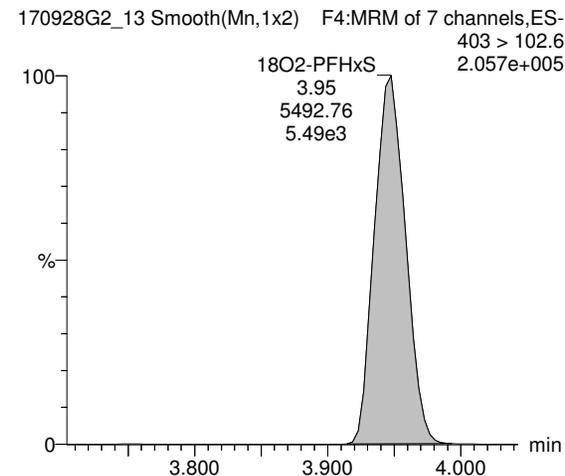
**13C3-PFBS**



**13C4-PFHpA**



**18O2-PFHxS**



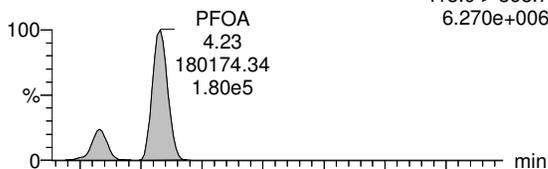
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Last Altered: Monday, October 02, 2017 12:33:27 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:33:53 Pacific Daylight Time

Name: 170928G2\_13, Date: 28-Sep-2017, Time: 19:47:12, ID: B710112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup

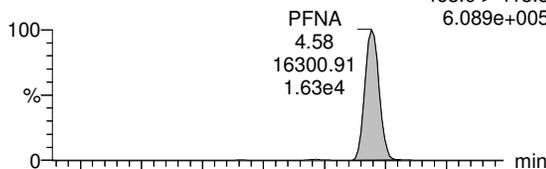
**Total PFOA**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
6.270e+006



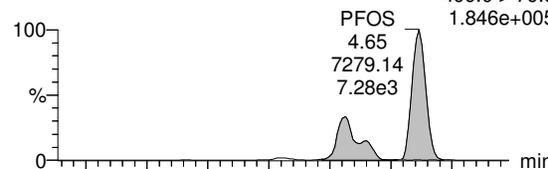
**PFNA**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
6.089e+005

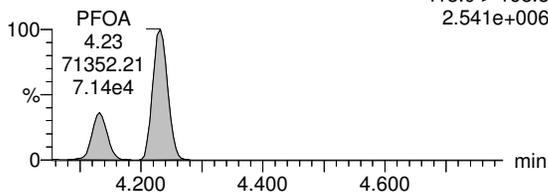


**Total PFOS**

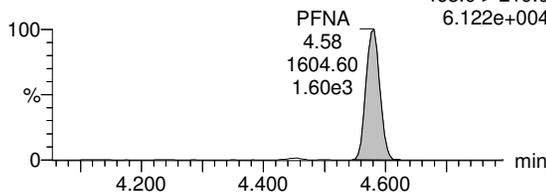
170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
1.846e+005



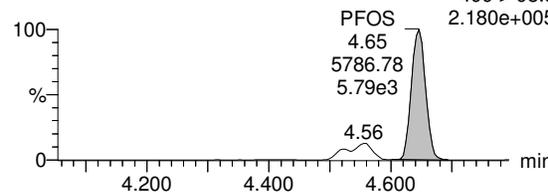
170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
2.541e+006



170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
6.122e+004

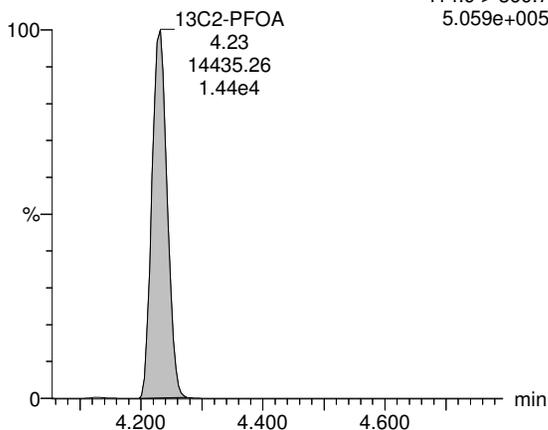


170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
2.180e+005



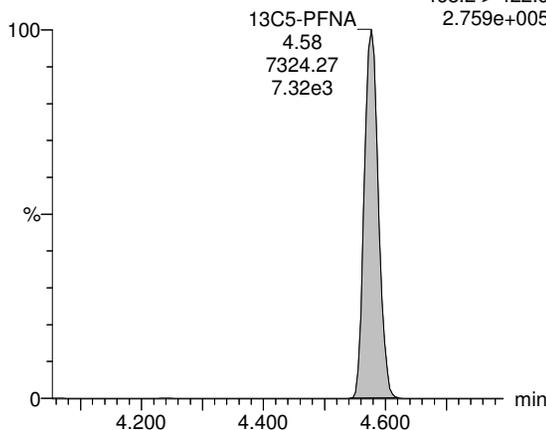
**13C2-PFOA**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
5.059e+005



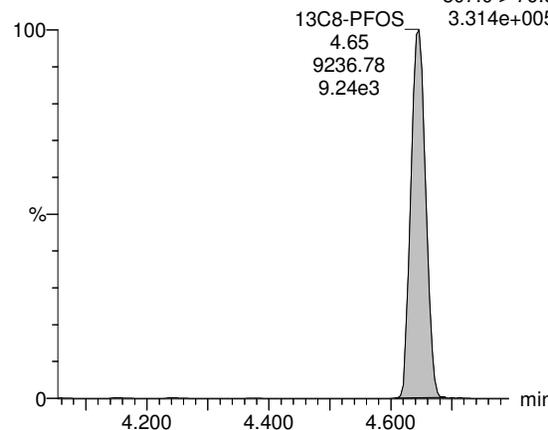
**13C5-PFNA**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.759e+005



**13C8-PFOS**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
3.314e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-13.qld

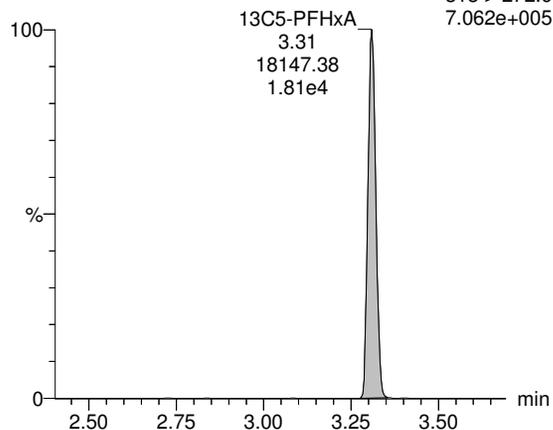
Last Altered: Monday, October 02, 2017 12:33:27 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:33:53 Pacific Daylight Time

Name: 170928G2\_13, Date: 28-Sep-2017, Time: 19:47:12, ID: B710112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup

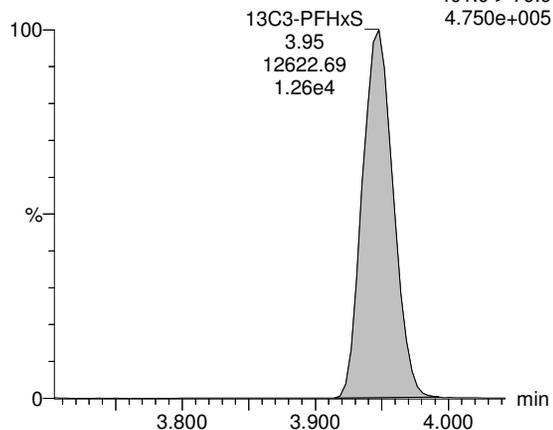
**13C5-PFHxA**

170928G2\_13 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-318 > 272.9  
7.062e+005



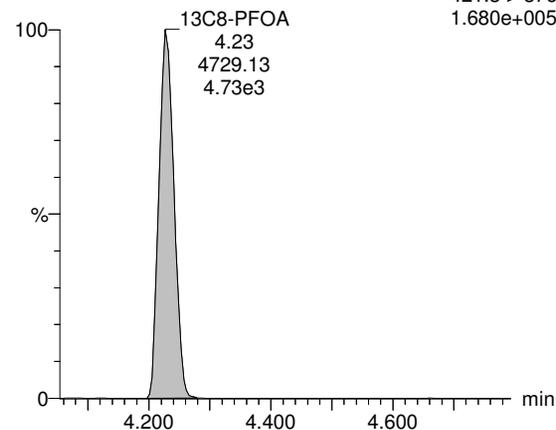
**13C3-PFHxS**

170928G2\_13 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-401.9 > 79.9  
4.750e+005



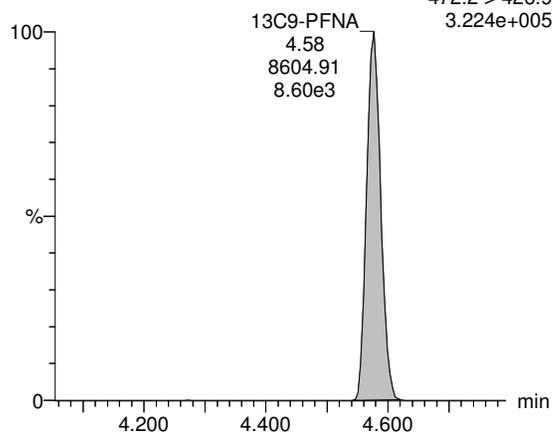
**13C8-PFOA**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-421.3 > 376  
1.680e+005



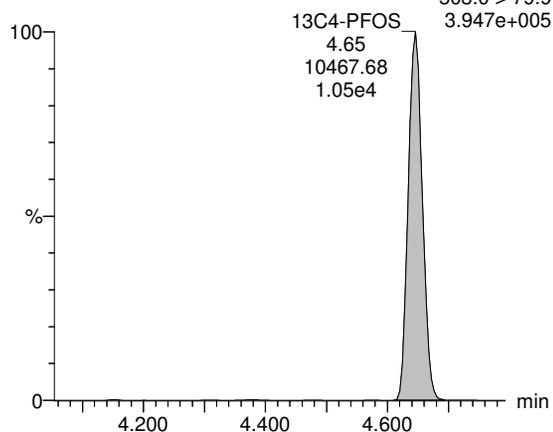
**13C9-PFNA**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-472.2 > 426.9  
3.224e+005



**13C4-PFOS**

170928G2\_13 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-503.0 > 79.9  
3.947e+005





Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-15.qld

Last Altered: Monday, October 02, 2017 12:23:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:24:05 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: 170928G2\_15, Date: 28-Sep-2017, Time: 20:12:16, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.117			5810.6			
2	5 PFHpA	363 > 318.9	0.117	3.83	53.2	8730.7	0.076		
3	6 PFHxS	398.9 > 79.6	0.117	3.95	32.2	5710.8	0.071	0.1913	
4	7 PFOA	413.0 > 368.7	0.117	4.24	392.2	15988.6	0.307		
5	8 PFNA	463.0 > 418.8	0.117			6401.3			
6	9 PFOS	499.0 > 79.9	0.117			9159.8			
7	12 13C3-PFBS	302.0 > 98.8	0.117	2.93	5810.6	17312.2	4.195	152.1707	142.3
8	15 13C4-PFHpA	367.2 > 321.8	0.117	3.82	8730.7	17312.2	6.304	120.6804	112.9
9	16 18O2-PFHxS	403 > 102.6	0.117	3.95	5710.8	13187.0	5.413	106.0821	99.2
10	17 13C2-PFOA	414.9 > 369.7	0.117	4.23	15988.6	5726.9	34.898	80.3536	75.2
11	18 13C5-PFNA	468.2 > 422.9	0.117	4.58	6401.3	8756.7	9.138	88.2101	82.5
12	20 13C8-PFOS	507.0 > 79.9	0.117	4.65	9159.8	10196.1	11.229	101.8027	95.2
13	22 13C5-PFHxA	318 > 272.9	0.117	3.32	17312.2	17312.2	12.500	106.9107	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.117	3.95	13187.0	13187.0	12.500	106.9107	100.0
15	24 13C8-PFOA	421.3 > 376	0.117	4.23	5726.9	5726.9	12.500	106.9107	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.117	4.58	8756.7	8756.7	12.500	106.9107	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.117	4.65	10196.1	10196.1	12.500	106.9107	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-15.qld

Last Altered: Monday, October 02, 2017 12:23:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:24:09 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: 170928G2\_15, Date: 28-Sep-2017, Time: 20:12:16, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.117		32.2	5710.8	0.071	0.1913	
2	29 Total PFOA	413.0 > 368.7	0.117		410.1	15988.6	0.000		
3	30 Total PFOS	499.0 > 79.9	0.117		0.0	9159.8	0.000		

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-15.qld

Last Altered: Monday, October 02, 2017 12:23:40 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:24:05 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: 170928G2\_15, Date: 28-Sep-2017, Time: 20:12:16, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	32.221	5710.791	0.071	bb	0.2

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	29 Total PFOA	413.0 > 368.7	4.13	17.916	15988.638	0.014	bbi	
2	7 PFOA	413.0 > 368.7	4.24	392.176	15988.638	0.307	bbi	

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1								

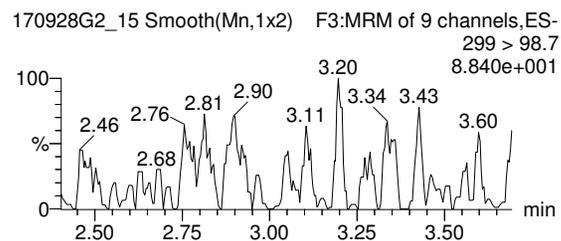
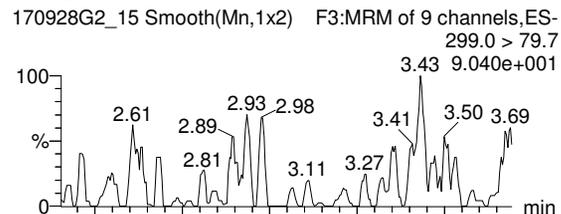
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-15.qld

Last Altered: Monday, October 02, 2017 12:23:40 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:24:05 Pacific Daylight Time

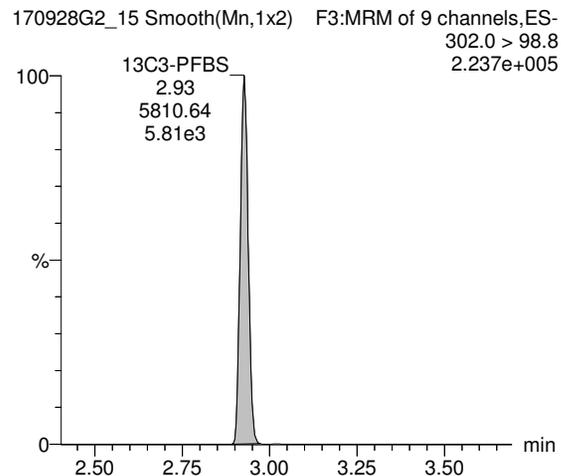
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G2\_15, Date: 28-Sep-2017, Time: 20:12:16, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917

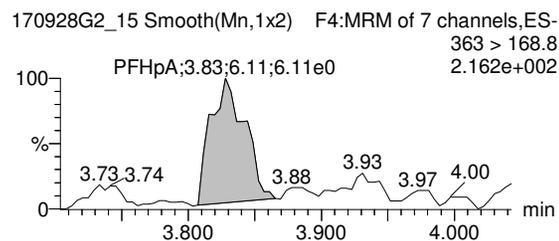
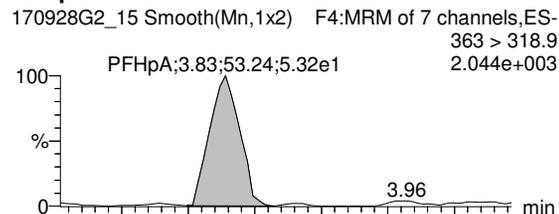
**PFBS**



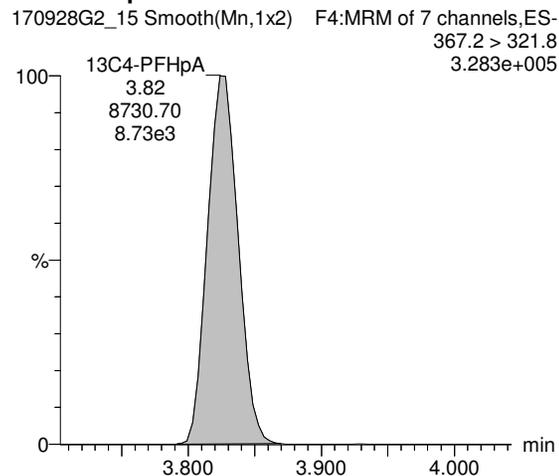
**13C3-PFBS**



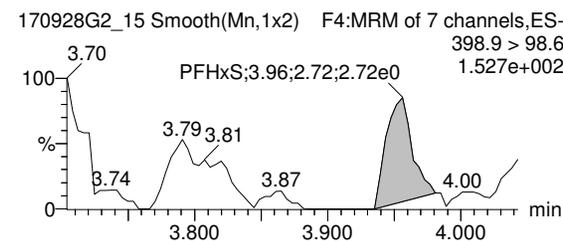
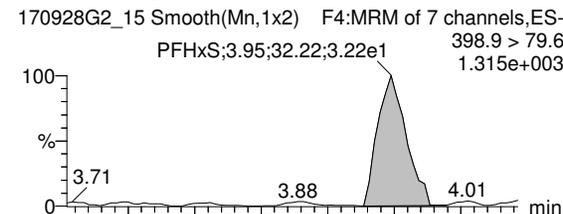
**PFHpA**



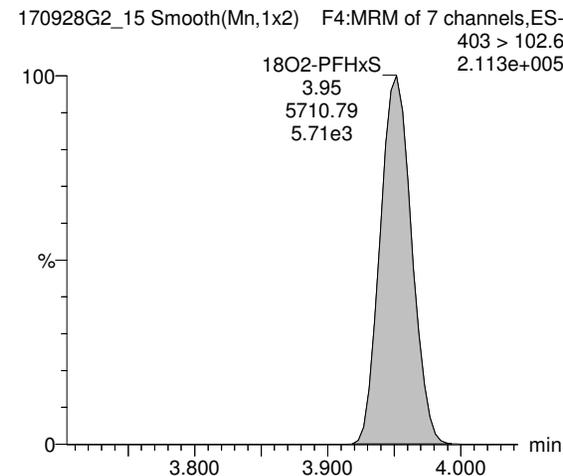
**13C4-PFHpA**



**Total PFHxS**



**18O2-PFHxS**



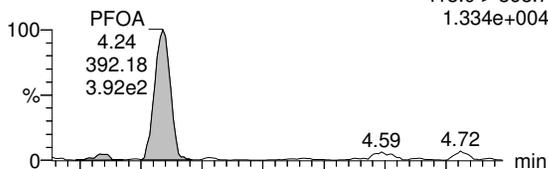
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-15.qld

Last Altered: Monday, October 02, 2017 12:23:40 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:24:05 Pacific Daylight Time

Name: 170928G2\_15, Date: 28-Sep-2017, Time: 20:12:16, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917

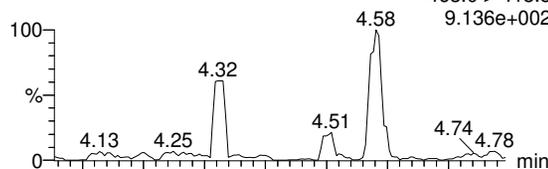
**Total PFOA**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
1.334e+004



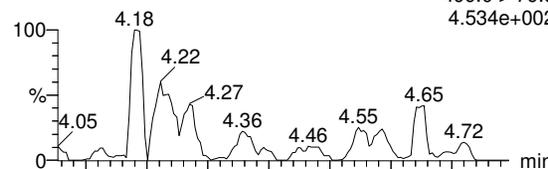
**PFNA**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
9.136e+002

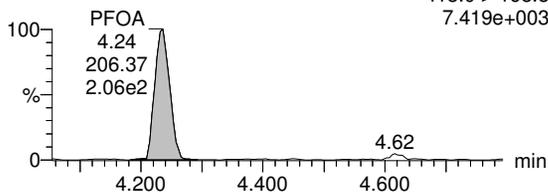


**Total PFOS**

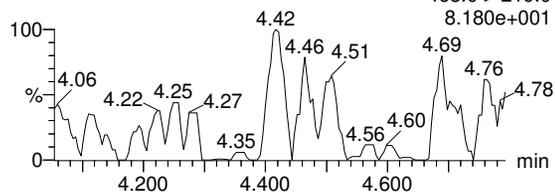
170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
4.534e+002



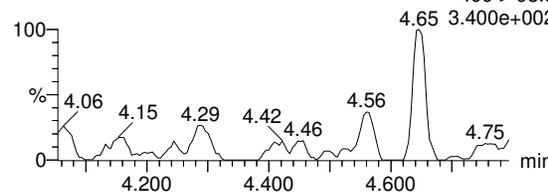
170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
7.419e+003



170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
8.180e+001

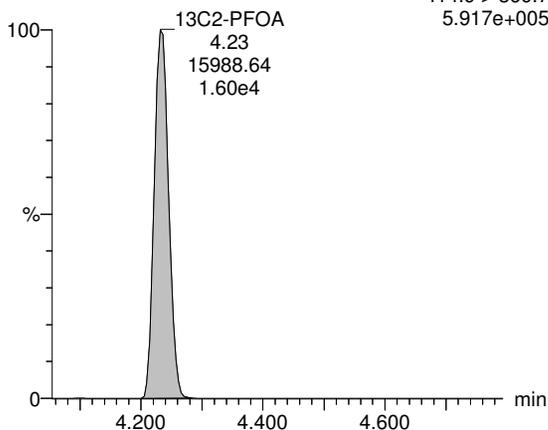


170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
3.400e+002



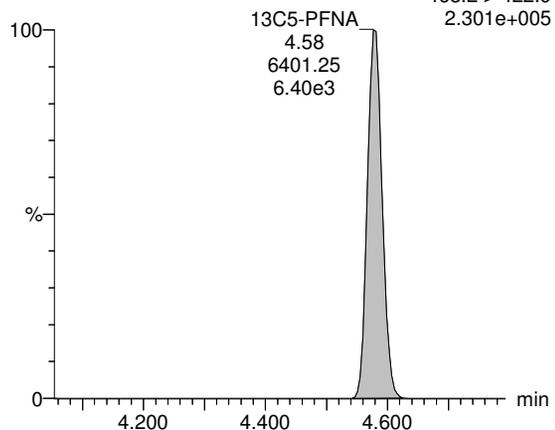
**13C2-PFOA**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
5.917e+005



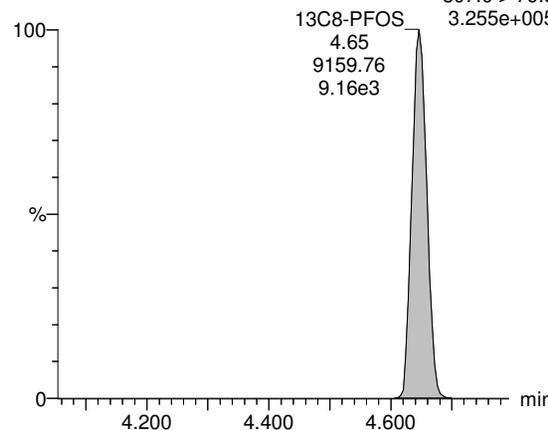
**13C5-PFNA**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.301e+005



**13C8-PFOS**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
3.255e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-15.qld

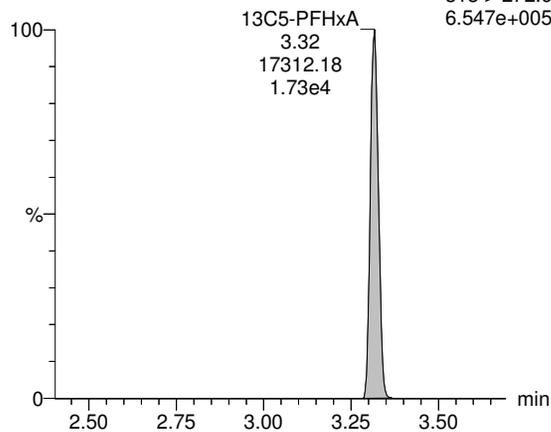
Last Altered: Monday, October 02, 2017 12:23:40 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:24:05 Pacific Daylight Time

Name: 170928G2\_15, Date: 28-Sep-2017, Time: 20:12:16, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917

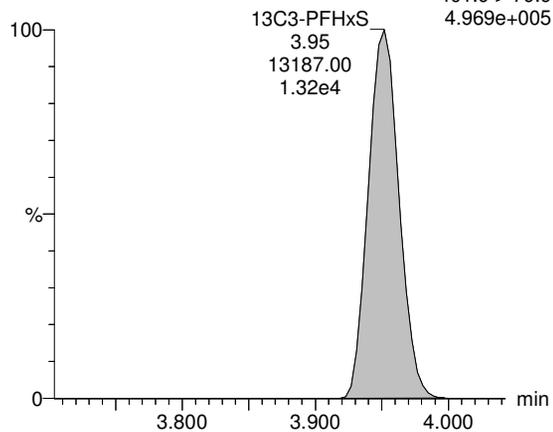
**13C5-PFHxA**

170928G2\_15 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.547e+005



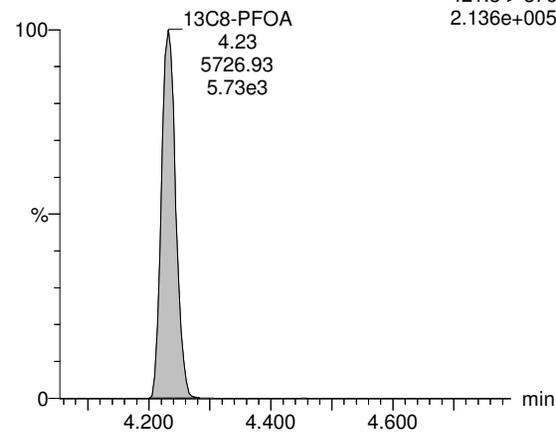
**13C3-PFHxS**

170928G2\_15 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.969e+005



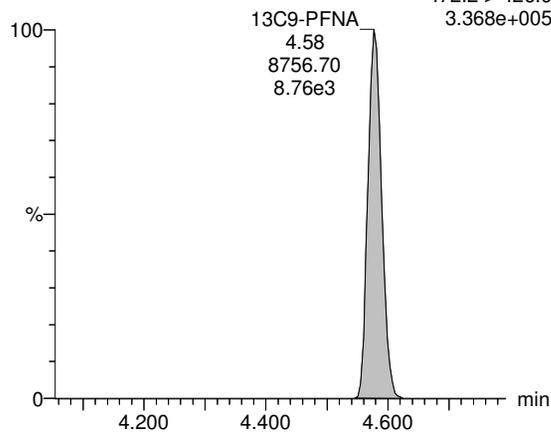
**13C8-PFOA**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
2.136e+005



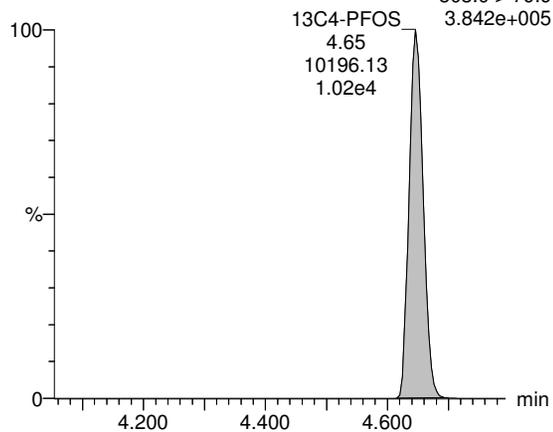
**13C9-PFNA**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
3.368e+005



**13C4-PFOS**

170928G2\_15 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
3.842e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-16.qld

Last Altered: Monday, October 02, 2017 12:26:16 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:26:41 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: 170928G2\_16, Date: 28-Sep-2017, Time: 20:24:46, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	0.117			5437.0			
2	5 PFHpA	363 > 318.9	0.117			8079.4			
3	6 PFHxS	398.9 > 79.6	0.117	3.95	26.4	5464.0	0.060	0.1454	
4	7 PFOA	413.0 > 368.7	0.117	4.23	387.8	15292.5	0.317		
5	8 PFNA	463.0 > 418.8	0.117			5923.6			
6	9 PFOS	499.0 > 79.9	0.117			8994.2			
7	12 13C3-PFBS	302.0 > 98.8	0.117	2.93	5437.0	16816.2	4.042	146.1369	137.1
8	15 13C4-PFHpA	367.2 > 321.8	0.117	3.82	8079.4	16816.2	6.006	114.6190	107.5
9	16 18O2-PFHxS	403 > 102.6	0.117	3.95	5464.0	11177.8	6.110	119.3752	112.0
10	17 13C2-PFOA	414.9 > 369.7	0.117	4.23	15292.5	5370.8	35.592	81.7001	76.7
11	18 13C5-PFNA	468.2 > 422.9	0.117	4.58	5923.6	7758.9	9.543	91.8428	86.2
12	20 13C8-PFOS	507.0 > 79.9	0.117	4.65	8994.2	8705.7	12.914	116.7169	109.5
13	22 13C5-PFHxA	318 > 272.9	0.117	3.31	16816.2	16816.2	12.500	106.5825	100.0
14	23 13C3-PFHxS	401.9 > 79.9	0.117	3.95	11177.8	11177.8	12.500	106.5825	100.0
15	24 13C8-PFOA	421.3 > 376	0.117	4.23	5370.8	5370.8	12.500	106.5825	100.0
16	25 13C9-PFNA	472.2 > 426.9	0.117	4.58	7758.9	7758.9	12.500	106.5825	100.0
17	26 13C4-PFOS	503.0 > 79.9	0.117	4.65	8705.7	8705.7	12.500	106.5825	100.0

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-16.qld

Last Altered: Monday, October 02, 2017 12:26:16 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:26:45 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: 170928G2\_16, Date: 28-Sep-2017, Time: 20:24:46, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	28 Total PFHxS	398.9 > 79.6	0.117		26.4	5464.0	0.060	0.1454	
2	29 Total PFOA	413.0 > 368.7	0.117		387.8	15292.5	0.000		
3	30 Total PFOS	499.0 > 79.9	0.117		0.0	8994.2	0.000		



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-16.qld

Last Altered: Monday, October 02, 2017 12:26:16 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:26:41 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: 170928G2\_16, Date: 28-Sep-2017, Time: 20:24:46, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917

**Total PFHxS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	6 PFHxS	398.9 > 79.6	3.95	26.390	5464.047	0.060	bb	0.1

**Total PFOA**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	7 PFOA	413.0 > 368.7	4.23	387.757	15292.465	0.317	bbl	

**Total PFOS**

	# Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1								

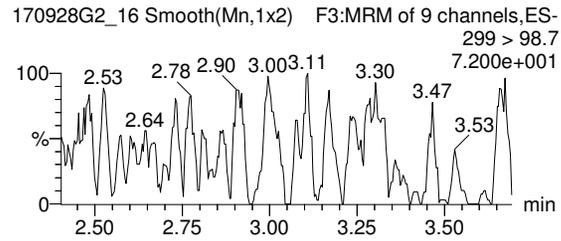
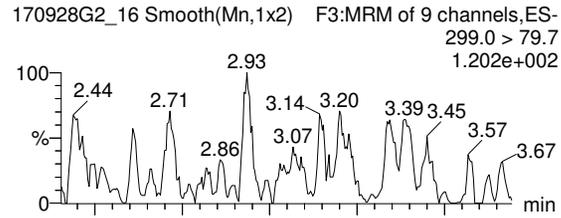
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Last Altered: Monday, October 02, 2017 12:26:16 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:26:41 Pacific Daylight Time

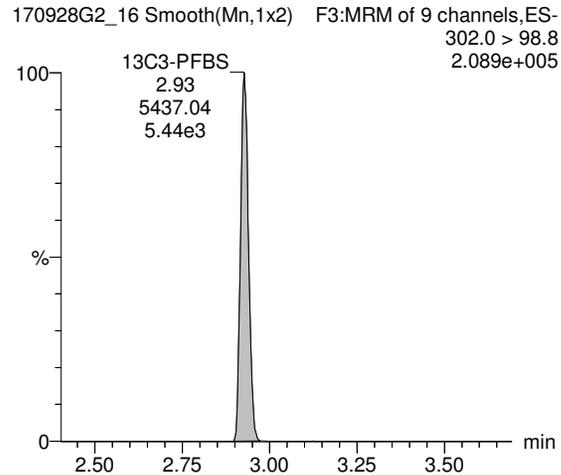
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G2\_16, Date: 28-Sep-2017, Time: 20:24:46, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917

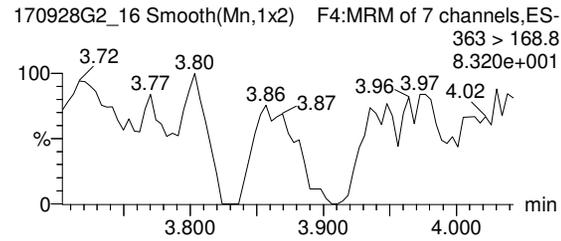
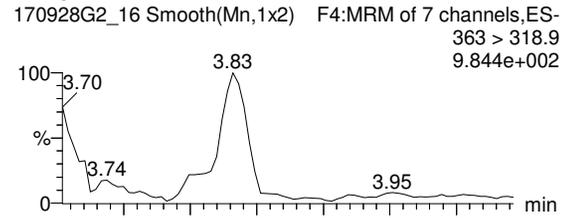
**PFBS**



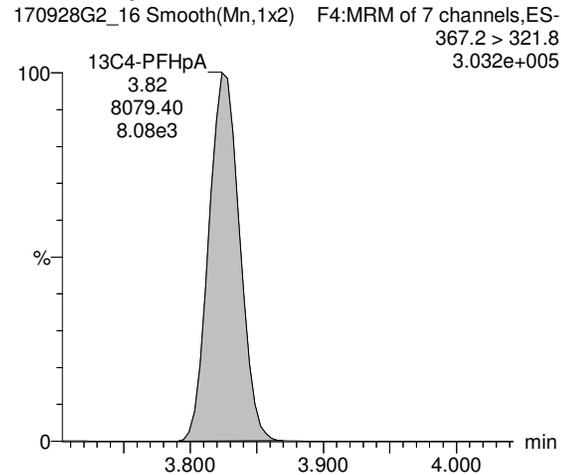
**13C3-PFBS**



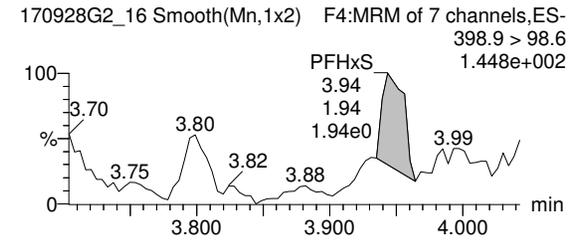
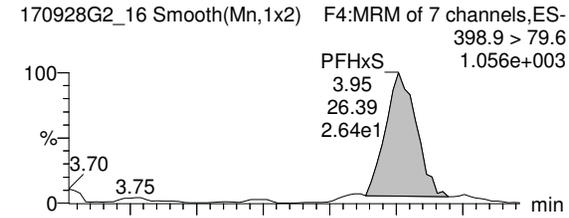
**PFHpA**



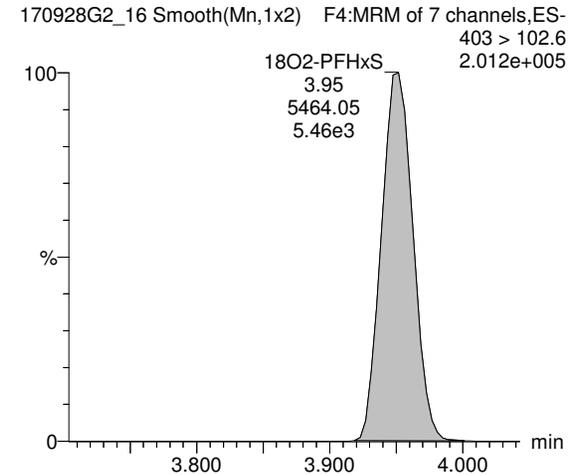
**13C4-PFHpA**



**Total PFHxS**



**18O2-PFHxS**



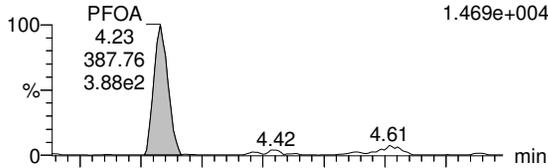
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-16.qld

Last Altered: Monday, October 02, 2017 12:26:16 Pacific Daylight Time  
Printed: Monday, October 02, 2017 12:26:41 Pacific Daylight Time

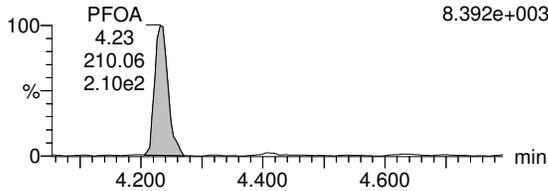
Name: 170928G2\_16, Date: 28-Sep-2017, Time: 20:24:46, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917

**Total PFOA**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
1.469e+004

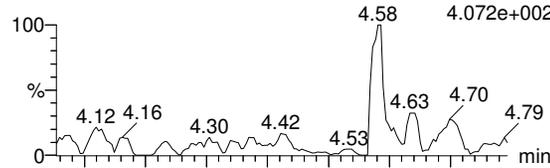


170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
8.392e+003

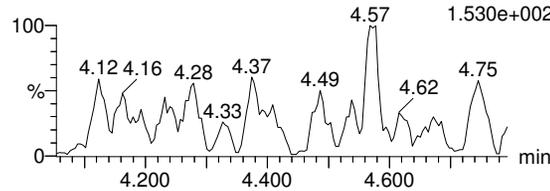


**PFNA**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
4.072e+002

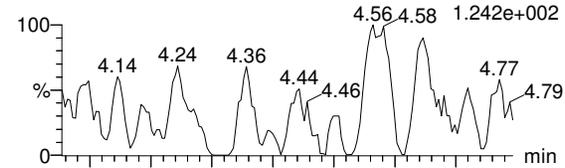


170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
1.530e+002

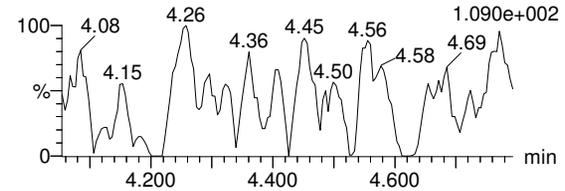


**Total PFOS**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
1.242e+002

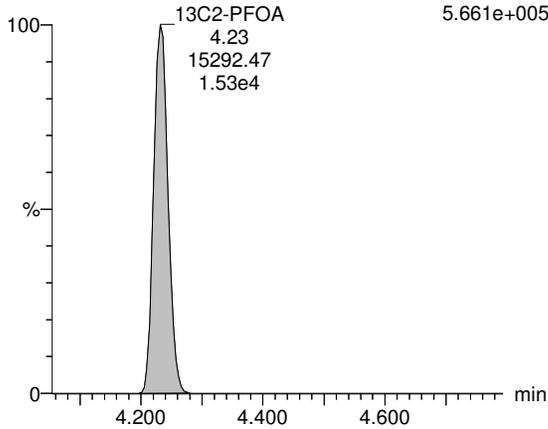


170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
1.090e+002



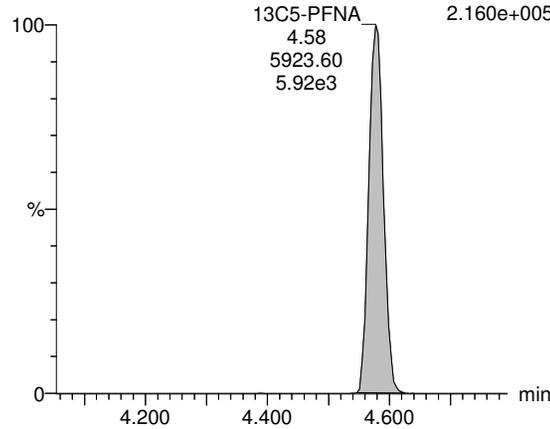
**13C2-PFOA**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
5.661e+005



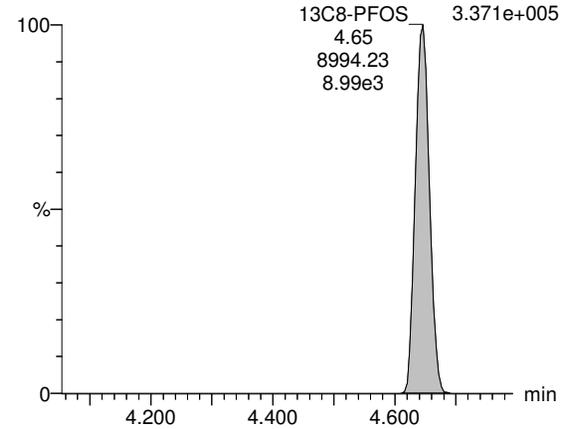
**13C5-PFNA**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.160e+005



**13C8-PFOS**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
3.371e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-16.qld

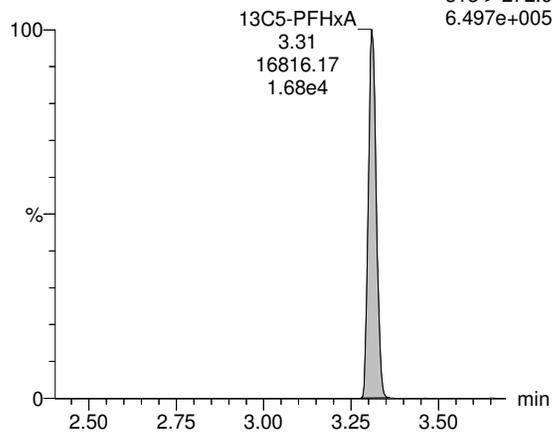
Last Altered: Monday, October 02, 2017 12:26:16 Pacific Daylight Time

Printed: Monday, October 02, 2017 12:26:41 Pacific Daylight Time

Name: 170928G2\_16, Date: 28-Sep-2017, Time: 20:24:46, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917

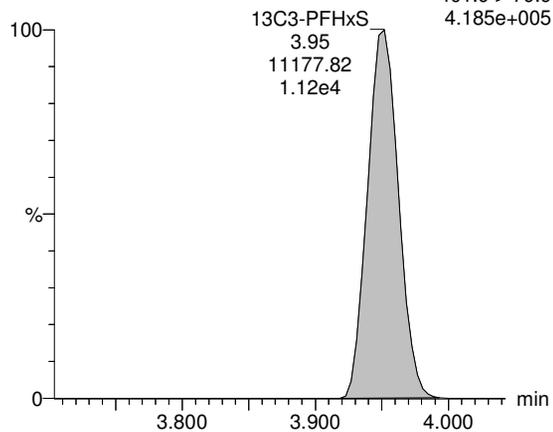
**13C5-PFHxA**

170928G2\_16 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.497e+005



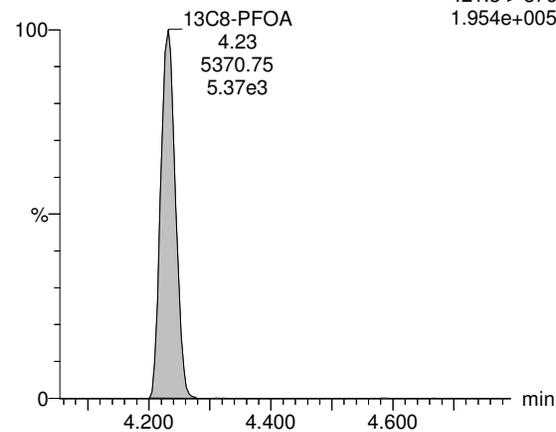
**13C3-PFHxS**

170928G2\_16 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.185e+005



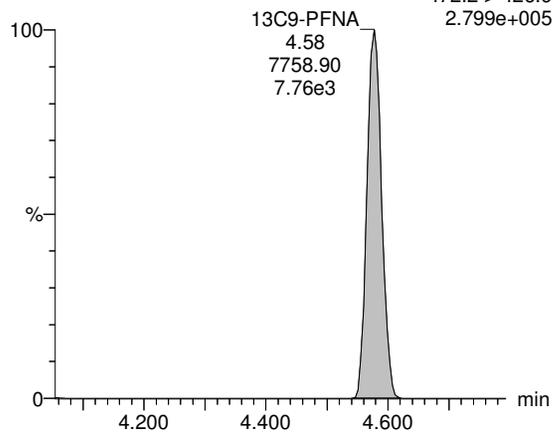
**13C8-PFOA**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.954e+005



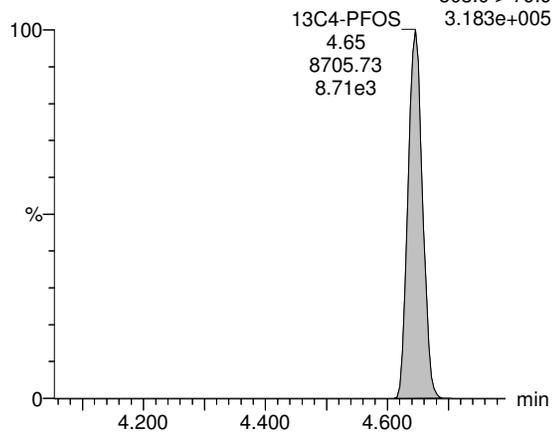
**13C9-PFNA**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.799e+005



**13C4-PFOS**

170928G2\_16 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
3.183e+005



**INJECTION INTERNAL STANDARD (IIS) AREAS,  
INSTRUMENT BLANKS (IB)  
AND  
CONTINUING CALIBRATION VERIFICATIONS (CCV)**

Dataset: Untitled

Last Altered: Wednesday, October 04, 2017 10:36:42 Pacific Daylight Time  
Printed: Wednesday, October 04, 2017 10:37:40 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_RS AREAS\_0809.mdb 19 Sep 2017 08:51:05  
Calibration: 04 Oct 2017 10:36:42

Name: 170925G1\_2, Date: 25-Sep-2017, Time: 11:08:45, ID: ST170925G1-1 PFC CS0 17I2003, Description: PFC CS0 17I2003

	# Name	ID	Area	%Rec	Area Out
1	1 13C3-PFBS	ST170925G1-1 PFC CS0 17I2003	5.18e3	100.0	NO
2	2 13C4-PFBA	ST170925G1-1 PFC CS0 17I2003	1.88e4	100.0	NO
3	3 13C5-PFHxA	ST170925G1-1 PFC CS0 17I2003	1.94e4	100.0	NO
4	4 13C3-PFHxS	ST170925G1-1 PFC CS0 17I2003	7.72e3	100.0	NO
5	5 13C8-PFOA	ST170925G1-1 PFC CS0 17I2003	4.30e3	100.0	NO
6	6 13C4-PFOS	ST170925G1-1 PFC CS0 17I2003	1.11e3	100.0	NO
7	7 13C9-PFNA	ST170925G1-1 PFC CS0 17I2003	3.32e3	100.0	NO
8	8 13C6-PFDA	ST170925G1-1 PFC CS0 17I2003	7.49e2	100.0	NO

Name: 170925G1\_3, Date: 25-Sep-2017, Time: 11:32:08, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C3-PFBS	IPA			NO
2	2 13C4-PFBA	IPA			NO
3	3 13C5-PFHxA	IPA			NO
4	4 13C3-PFHxS	IPA			NO
5	5 13C8-PFOA	IPA			NO
6	6 13C4-PFOS	IPA	7.17e0	0.6	YES
7	7 13C9-PFNA	IPA			NO
8	8 13C6-PFDA	IPA			NO

Name: 170925G1\_4, Date: 25-Sep-2017, Time: 11:44:21, ID: 1701173-05@20X B-G-GW 0.10784, Description: B-G-GW

	# Name	ID	Area	%Rec	Area Out
1	1 13C3-PFBS	1701173-05@20X B-G-GW 0.10784	1.80e1	0.3	YES
2	2 13C4-PFBA	1701173-05@20X B-G-GW 0.10784	1.19e2	0.6	YES
3	3 13C5-PFHxA	1701173-05@20X B-G-GW 0.10784	8.75e1	0.4	YES
4	4 13C3-PFHxS	1701173-05@20X B-G-GW 0.10784	3.02e1	0.4	YES
5	5 13C8-PFOA	1701173-05@20X B-G-GW 0.10784	4.21e1	1.0	YES
6	6 13C4-PFOS	1701173-05@20X B-G-GW 0.10784	3.18e1	2.9	YES
7	7 13C9-PFNA	1701173-05@20X B-G-GW 0.10784	3.75e1	1.1	YES
8	8 13C6-PFDA	1701173-05@20X B-G-GW 0.10784	3.62e1	4.8	YES

Name: 170925G1\_5, Date: 25-Sep-2017, Time: 11:56:48, ID: 1701173-06@20X B-F-GW 0.10571, Description: B-F-GW

	# Name	ID	Area	%Rec	Area Out
1	1 13C3-PFBS	1701173-06@20X B-F-GW 0.10571	1.67e1	0.3	YES
2	2 13C4-PFBA	1701173-06@20X B-F-GW 0.10571	1.16e2	0.6	YES
3	3 13C5-PFHxA	1701173-06@20X B-F-GW 0.10571	8.48e1	0.4	YES
4	4 13C3-PFHxS	1701173-06@20X B-F-GW 0.10571	4.02e1	0.5	YES
5	5 13C8-PFOA	1701173-06@20X B-F-GW 0.10571	1.94e1	0.5	YES
6	6 13C4-PFOS	1701173-06@20X B-F-GW 0.10571	5.29e1	4.8	YES
7	7 13C9-PFNA	1701173-06@20X B-F-GW 0.10571	6.07e1	1.8	YES
8	8 13C6-PFDA	1701173-06@20X B-F-GW 0.10571	4.92e1	6.6	YES

Dataset: Untitled

Last Altered: Wednesday, October 04, 2017 10:36:42 Pacific Daylight Time  
Printed: Wednesday, October 04, 2017 10:37:40 Pacific Daylight Time

**Name: 170925G1\_6, Date: 25-Sep-2017, Time: 12:09:22, ID: 1701173-07 B-S-GW 0.1144, Description: B-S-GW**

	# Name	ID	Area	%Rec	Area Out
1	1 13C3-PFBS	1701173-07 B-S-GW 0.1144	5.61e3	108.3	NO
2	2 13C4-PFBA	1701173-07 B-S-GW 0.1144	1.53e4	81.3	NO
3	3 13C5-PFHxA	1701173-07 B-S-GW 0.1144	1.91e4	98.0	NO
4	4 13C3-PFHxS	1701173-07 B-S-GW 0.1144	1.14e4	147.6	NO
5	5 13C8-PFOA	1701173-07 B-S-GW 0.1144	7.25e3	168.8	YES
6	6 13C4-PFOS	1701173-07 B-S-GW 0.1144	1.40e4	1257.8	YES
7	7 13C9-PFNA	1701173-07 B-S-GW 0.1144	1.26e4	380.3	YES
8	8 13C6-PFDA	1701173-07 B-S-GW 0.1144	1.48e4	1979.1	YES

**Name: 170925G1\_7, Date: 25-Sep-2017, Time: 12:21:55, ID: IPA, Description: IPA**

	# Name	ID	Area	%Rec	Area Out
1	1 13C3-PFBS	IPA			NO
2	2 13C4-PFBA	IPA			NO
3	3 13C5-PFHxA	IPA			NO
4	4 13C3-PFHxS	IPA			NO
5	5 13C8-PFOA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C9-PFNA	IPA			NO
8	8 13C6-PFDA	IPA			NO

**Name: 170925G1\_8, Date: 25-Sep-2017, Time: 12:34:31, ID: ST170925G1-2 PFC CS3 17I2002, Description: PFC CS3 17I2002**

	# Name	ID	Area	%Rec	Area Out
1	1 13C3-PFBS	ST170925G1-2 PFC CS3 17I2002	6.40e3	123.4	NO
2	2 13C4-PFBA	ST170925G1-2 PFC CS3 17I2002	2.44e4	130.1	NO
3	3 13C5-PFHxA	ST170925G1-2 PFC CS3 17I2002	2.51e4	129.0	NO
4	4 13C3-PFHxS	ST170925G1-2 PFC CS3 17I2002	1.07e4	139.0	NO
5	5 13C8-PFOA	ST170925G1-2 PFC CS3 17I2002	5.97e3	139.0	NO
6	6 13C4-PFOS	ST170925G1-2 PFC CS3 17I2002	2.66e3	239.0	YES
7	7 13C9-PFNA	ST170925G1-2 PFC CS3 17I2002	6.37e3	192.1	YES
8	8 13C6-PFDA	ST170925G1-2 PFC CS3 17I2002	1.64e3	219.4	YES

Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-IIS AREAS.qld

Last Altered: Tuesday, September 26, 2017 09:09:39 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:10:52 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\RS AREAS.mdb 28 Jul 2017 10:55:47

Calibration: 26 Sep 2017 09:09:37

Name: 170925G2\_2, Date: 25-Sep-2017, Time: 17:45:42, ID: ST170925G2-2 PFC CS3 1712002, Description: PFC CS3 1712002

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.32	17542.768	17542.768	NO	12.5	100.0
2	2 13C3-PFHxS	401.9 > 79.9	3.96	8171.236	8171.236	NO	12.5	100.0
3	3 13C8-PFOA	421.3 > 376	4.24	3798.973	3798.973	NO	12.5	100.0
4	4 13C9-PFNA	472.2 > 426.9	4.59	5661.699	5661.699	NO	12.5	100.0
5	5 13C4-PFOS	503.0 > 79.9	4.66	5367.370	5367.370	NO	12.5	100.0
6	6 13C6-PFDA	519.10 > 473.70	4.89	4385.895	4385.895	NO	12.5	100.0

Name: 170925G2\_3, Date: 25-Sep-2017, Time: 17:58:16, ID: IPA, Description: IPA

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9				NO		
2	2 13C3-PFHxS	401.9 > 79.9				NO		
3	3 13C8-PFOA	421.3 > 376				NO		
4	4 13C9-PFNA	472.2 > 426.9				NO		
5	5 13C4-PFOS	503.0 > 79.9				NO		
6	6 13C6-PFDA	519.10 > 473.70				NO		

Name: 170925G2\_4, Date: 25-Sep-2017, Time: 18:10:50, ID: B710112-BS1 OPR 0.125, Description: OPR

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.31	16676.352	16676.352	NO	95.1	95.1
2	2 13C3-PFHxS	401.9 > 79.9	3.95	8899.031	8899.031	NO	108.9	108.9
3	3 13C8-PFOA	421.3 > 376	4.23	4689.525	4689.525	NO	123.4	123.4
4	4 13C9-PFNA	472.2 > 426.9	4.57	6601.631	6601.631	NO	116.6	116.6
5	5 13C4-PFOS	503.0 > 79.9	4.65	7779.210	7779.210	NO	144.9	144.9
6	6 13C6-PFDA	519.10 > 473.70	4.88	7750.711	7750.711	YES	176.7	176.7

Name: 170925G2\_5, Date: 25-Sep-2017, Time: 18:23:22, ID: IPA, Description: IPA

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9				NO		
2	2 13C3-PFHxS	401.9 > 79.9				NO		
3	3 13C8-PFOA	421.3 > 376				NO		
4	4 13C9-PFNA	472.2 > 426.9				NO		
5	5 13C4-PFOS	503.0 > 79.9				NO		
6	6 13C6-PFDA	519.10 > 473.70				NO		

Name: 170925G2\_6, Date: 25-Sep-2017, Time: 18:35:57, ID: B710112-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.31	15761.145	15761.145	NO	89.8	89.8
2	2 13C3-PFHxS	401.9 > 79.9	3.95	8969.212	8969.212	NO	109.8	109.8
3	3 13C8-PFOA	421.3 > 376	4.23	4924.788	4924.788	NO	129.6	129.6
4	4 13C9-PFNA	472.2 > 426.9	4.58	6744.796	6744.796	NO	119.1	119.1



Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-IIS AREAS.qld

Last Altered: Tuesday, September 26, 2017 09:09:39 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:10:52 Pacific Daylight Time

**Name: 170925G2\_6, Date: 25-Sep-2017, Time: 18:35:57, ID: B710112-BLK1 Method Blank 0.125, Description: Method Blank**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
5	5 13C4-PFOS	503.0 > 79.9	4.64	7575.367	7575.367	NO	141.1	141.1
6	6 13C6-PFDA	519.10 > 473.70	4.88	7301.457	7301.457	YES	166.5	166.5

**Name: 170925G2\_7, Date: 25-Sep-2017, Time: 18:48:27, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14664.994	14664.994	NO	87.9	83.6
2	2 13C3-PFHxS	401.9 > 79.9	3.94	7375.598	7375.598	NO	94.9	90.3
3	3 13C8-PFOA	421.3 > 376	4.22	3698.099	3698.099	NO	102.4	97.3
4	4 13C9-PFNA	472.2 > 426.9	4.57	5722.793	5722.793	NO	106.3	101.1
5	5 13C4-PFOS	503.0 > 79.9	4.64	4917.035	4917.035	NO	96.4	91.6
6	6 13C6-PFDA	519.10 > 473.70	4.88	4123.071	4123.071	NO	98.9	94.0

**Name: 170925G2\_8, Date: 25-Sep-2017, Time: 19:01:00, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	14212.054	14212.054	NO	86.3	81.0
2	2 13C3-PFHxS	401.9 > 79.9	3.94	8892.756	8892.756	NO	115.9	108.8
3	3 13C8-PFOA	421.3 > 376	4.22	4129.714	4129.714	NO	115.8	108.7
4	4 13C9-PFNA	472.2 > 426.9	4.57	5969.728	5969.728	NO	112.3	105.4
5	5 13C4-PFOS	503.0 > 79.9	4.64	6233.510	6233.510	NO	123.7	116.1
6	6 13C6-PFDA	519.10 > 473.70	4.88	5726.782	5726.782	NO	139.1	130.6

**Name: 170925G2\_9, Date: 25-Sep-2017, Time: 19:13:35, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	13806.209	13806.209	NO	94.4	78.7
2	2 13C3-PFHxS	401.9 > 79.9	3.94	7954.584	7954.584	NO	116.8	97.3
3	3 13C8-PFOA	421.3 > 376	4.22	3976.923	3976.923	NO	125.6	104.7
4	4 13C9-PFNA	472.2 > 426.9	4.57	4784.296	4784.296	NO	101.4	84.5
5	5 13C4-PFOS	503.0 > 79.9	4.64	3940.734	3940.734	NO	88.1	73.4
6	6 13C6-PFDA	519.10 > 473.70	4.87	3537.817	3537.817	NO	96.8	80.7

**Name: 170925G2\_10, Date: 25-Sep-2017, Time: 19:26:07, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	9563.581	9563.581	NO	66.8	54.5
2	2 13C3-PFHxS	401.9 > 79.9	3.93	5665.411	5665.411	NO	84.9	69.3
3	3 13C8-PFOA	421.3 > 376	4.22	3706.880	3706.880	NO	119.5	97.6
4	4 13C9-PFNA	472.2 > 426.9	4.57	4317.079	4317.079	NO	93.4	76.3
5	5 13C4-PFOS	503.0 > 79.9	4.64	1795.124	1795.124	YES	41.0	33.4
6	6 13C6-PFDA	519.10 > 473.70	4.87	5097.523	5097.523	NO	142.3	116.2

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**Name: 170925G2\_11, Date: 25-Sep-2017, Time: 19:38:40, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	14152.575	14152.575	NO	93.6	80.7
2	2 13C3-PFHxS	401.9 > 79.9	3.94	7912.412	7912.412	NO	112.3	96.8
3	3 13C8-PFOA	421.3 > 376	4.22	4847.564	4847.564	NO	148.0	127.6
4	4 13C9-PFNA	472.2 > 426.9	4.57	6644.408	6644.408	NO	136.2	117.4
5	5 13C4-PFOS	503.0 > 79.9	4.64	6245.927	6245.927	NO	135.0	116.4
6	6 13C6-PFDA	519.10 > 473.70	4.87	7190.919	7190.919	YES	190.2	164.0

**Name: 170925G2\_12, Date: 25-Sep-2017, Time: 19:51:15, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	15262.310	15262.310	NO	99.4	87.0
2	2 13C3-PFHxS	401.9 > 79.9	3.94	9633.001	9633.001	NO	134.7	117.9
3	3 13C8-PFOA	421.3 > 376	4.22	3410.743	3410.743	NO	102.6	89.8
4	4 13C9-PFNA	472.2 > 426.9	4.57	6857.622	6857.622	NO	138.4	121.1
5	5 13C4-PFOS	503.0 > 79.9	4.64	6483.744	6483.744	NO	138.0	120.8
6	6 13C6-PFDA	519.10 > 473.70	4.87	5870.672	5870.672	NO	152.9	133.9

**Name: 170925G2\_13, Date: 25-Sep-2017, Time: 20:03:44, ID: B710112-MS1 Matrix Spike 0.1171, Description: Matrix Spike**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	15819.049	15819.049	NO	96.3	90.2
2	2 13C3-PFHxS	401.9 > 79.9	3.93	9115.601	9115.601	NO	119.1	111.6
3	3 13C8-PFOA	421.3 > 376	4.22	3323.204	3323.204	NO	93.4	87.5
4	4 13C9-PFNA	472.2 > 426.9	4.57	7055.748	7055.748	NO	133.0	124.6
5	5 13C4-PFOS	503.0 > 79.9	4.64	8204.435	8204.435	YES	163.2	152.9
6	6 13C6-PFDA	519.10 > 473.70	4.87	7701.354	7701.354	YES	187.4	175.6

**Name: 170925G2\_14, Date: 25-Sep-2017, Time: 20:16:17, ID: B710112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	14873.814	14873.814	NO	92.0	84.8
2	2 13C3-PFHxS	401.9 > 79.9	3.94	10024.204	10024.204	NO	133.1	122.7
3	3 13C8-PFOA	421.3 > 376	4.22	3707.661	3707.661	NO	105.9	97.6
4	4 13C9-PFNA	472.2 > 426.9	4.57	7197.123	7197.123	NO	137.9	127.1
5	5 13C4-PFOS	503.0 > 79.9	4.64	8003.990	8003.990	NO	161.8	149.1
6	6 13C6-PFDA	519.10 > 473.70	4.87	8350.645	8350.645	YES	206.5	190.4

**Name: 170925G2\_15, Date: 25-Sep-2017, Time: 20:28:53, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	15295.597	15295.597	NO	93.2	87.2
2	2 13C3-PFHxS	401.9 > 79.9	3.94	9684.984	9684.984	NO	126.7	118.5
3	3 13C8-PFOA	421.3 > 376	4.22	4344.297	4344.297	NO	122.3	114.4
4	4 13C9-PFNA	472.2 > 426.9	4.57	5995.533	5995.533	NO	113.2	105.9
5	5 13C4-PFOS	503.0 > 79.9	4.64	8350.511	8350.511	YES	166.3	155.6

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**Name: 170925G2\_15, Date: 25-Sep-2017, Time: 20:28:53, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
6	13C6-PFDA	519.10 > 473.70	4.87	7423.581	7423.581	YES	181.0	169.3

**Name: 170925G2\_16, Date: 25-Sep-2017, Time: 20:41:28, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C5-PFHxA	318>272.9	3.29	15374.826	15374.826	NO	93.4	87.6
2	13C3-PFHxS	401.9 > 79.9	3.94	9181.438	9181.438	NO	119.8	112.4
3	13C8-PFOA	421.3 > 376	4.22	3767.254	3767.254	NO	105.7	99.2
4	13C9-PFNA	472.2 > 426.9	4.57	5818.277	5818.277	NO	109.5	102.8
5	13C4-PFOS	503.0 > 79.9	4.64	7029.512	7029.512	NO	139.6	131.0
6	13C6-PFDA	519.10 > 473.70	4.87	7069.452	7069.452	YES	171.8	161.2

**Name: 170925G2\_17, Date: 25-Sep-2017, Time: 20:54:01, ID: 1701285-01 BADIN-FB-01-091917 0.10823, Description: BADIN-FB-01-091917**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C5-PFHxA	318>272.9	3.29	15411.851	15411.851	NO	101.5	87.9
2	13C3-PFHxS	401.9 > 79.9	3.94	9476.252	9476.252	NO	133.9	116.0
3	13C8-PFOA	421.3 > 376	4.22	3908.192	3908.192	NO	118.8	102.9
4	13C9-PFNA	472.2 > 426.9	4.57	6655.159	6655.159	NO	135.8	117.5
5	13C4-PFOS	503.0 > 79.9	4.64	8189.722	8189.722	YES	176.2	152.6
6	13C6-PFDA	519.10 > 473.70	4.87	7296.467	7296.467	YES	192.1	166.4

**Name: 170925G2\_18, Date: 25-Sep-2017, Time: 21:06:35, ID: 1701290-01 STWRT-FB-KED-092117 0.1134, Description: STWRT-FB-KED-092117**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C5-PFHxA	318>272.9	3.30	14982.165	14982.165	NO	94.1	85.4
2	13C3-PFHxS	401.9 > 79.9	3.94	8041.059	8041.059	NO	108.5	98.4
3	13C8-PFOA	421.3 > 376	4.22	3977.607	3977.607	NO	115.4	104.7
4	13C9-PFNA	472.2 > 426.9	4.57	5968.316	5968.316	NO	116.2	105.4
5	13C4-PFOS	503.0 > 79.9	4.64	7040.260	7040.260	NO	144.6	131.2
6	13C6-PFDA	519.10 > 473.70	4.87	6508.499	6508.499	NO	163.6	148.4

**Name: 170925G2\_19, Date: 25-Sep-2017, Time: 21:19:07, ID: IPA, Description: IPA**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	13C5-PFHxA	318>272.9				NO		
2	13C3-PFHxS	401.9 > 79.9				NO		
3	13C8-PFOA	421.3 > 376				NO		
4	13C9-PFNA	472.2 > 426.9				NO		
5	13C4-PFOS	503.0 > 79.9				NO		
6	13C6-PFDA	519.10 > 473.70				NO		

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**Name: 170925G2\_20, Date: 25-Sep-2017, Time: 21:31:39, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	17868.553	17868.553	NO	12.7	101.9
2	2 13C3-PFHxS	401.9 > 79.9	3.94	8899.270	8899.270	NO	13.6	108.9
3	3 13C8-PFOA	421.3 > 376	4.22	3778.163	3778.163	NO	12.4	99.5
4	4 13C9-PFNA	472.2 > 426.9	4.57	6137.672	6137.672	NO	13.6	108.4
5	5 13C4-PFOS	503.0 > 79.9	4.64	5515.109	5515.109	NO	12.8	102.8
6	6 13C6-PFDA	519.10 > 473.70	4.87	4305.762	4305.762	NO	12.3	98.2

**Name: 170925G2\_21, Date: 25-Sep-2017, Time: 21:44:10, ID: IPA, Description: IPA**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9				NO		
2	2 13C3-PFHxS	401.9 > 79.9				NO		
3	3 13C8-PFOA	421.3 > 376				NO		
4	4 13C9-PFNA	472.2 > 426.9				NO		
5	5 13C4-PFOS	503.0 > 79.9				NO		
6	6 13C6-PFDA	519.10 > 473.70				NO		

**Name: 170925G2\_22, Date: 25-Sep-2017, Time: 21:56:46, ID: B7I0129-BS1 OPR 0.125, Description: OPR**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14895.606	14895.606	NO	84.9	84.9
2	2 13C3-PFHxS	401.9 > 79.9	3.94	7578.722	7578.722	NO	92.7	92.7
3	3 13C8-PFOA	421.3 > 376	4.22	3850.129	3850.129	NO	101.3	101.3
4	4 13C9-PFNA	472.2 > 426.9	4.57	5869.792	5869.792	NO	103.7	103.7
5	5 13C4-PFOS	503.0 > 79.9	4.64	6743.128	6743.128	NO	125.6	125.6
6	6 13C6-PFDA	519.10 > 473.70	4.87	6181.282	6181.282	NO	140.9	140.9

**Name: 170925G2\_23, Date: 25-Sep-2017, Time: 22:09:19, ID: IPA, Description: IPA**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9				NO		
2	2 13C3-PFHxS	401.9 > 79.9				NO		
3	3 13C8-PFOA	421.3 > 376				NO		
4	4 13C9-PFNA	472.2 > 426.9				NO		
5	5 13C4-PFOS	503.0 > 79.9				NO		
6	6 13C6-PFDA	519.10 > 473.70				NO		

**Name: 170925G2\_24, Date: 25-Sep-2017, Time: 22:21:51, ID: B7I0129-BLK1 Method Blank 0.125, Description: Method Blank**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14728.655	14728.655	NO	84.0	84.0
2	2 13C3-PFHxS	401.9 > 79.9	3.94	7873.075	7873.075	NO	96.4	96.4
3	3 13C8-PFOA	421.3 > 376	4.22	3706.465	3706.465	NO	97.6	97.6
4	4 13C9-PFNA	472.2 > 426.9	4.57	5992.815	5992.815	NO	105.8	105.8
5	5 13C4-PFOS	503.0 > 79.9	4.64	6902.658	6902.658	NO	128.6	128.6
6	6 13C6-PFDA	519.10 > 473.70	4.87	6824.356	6824.356	YES	155.6	155.6

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Name: 170925G2\_25, Date: 25-Sep-2017, Time: 22:34:21, ID: 1701265-83 DW-R-346BHR 0.125, Description: DW-R-346BHR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	15453.304	15453.304	NO	88.1	88.1
2	2 13C3-PFHxS	401.9 > 79.9	3.94	8870.328	8870.328	NO	108.6	108.6
3	3 13C8-PFOA	421.3 > 376	4.22	4128.027	4128.027	NO	108.7	108.7
4	4 13C9-PFNA	472.2 > 426.9	4.57	5245.161	5245.161	NO	92.6	92.6
5	5 13C4-PFOS	503.0 > 79.9	4.64	7245.334	7245.334	NO	135.0	135.0
6	6 13C6-PFDA	519.10 > 473.70	4.87	7612.922	7612.922	YES	173.6	173.6

Name: 170925G2\_26, Date: 25-Sep-2017, Time: 22:46:53, ID: 1701265-84 DW-R-340BHR 0.125, Description: DW-R-340BHR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14189.338	14189.338	NO	80.9	80.9
2	2 13C3-PFHxS	401.9 > 79.9	3.94	7629.982	7629.982	NO	93.4	93.4
3	3 13C8-PFOA	421.3 > 376	4.22	3804.679	3804.679	NO	100.2	100.2
4	4 13C9-PFNA	472.2 > 426.9	4.57	5981.623	5981.623	NO	105.7	105.7
5	5 13C4-PFOS	503.0 > 79.9	4.64	7376.965	7376.965	NO	137.4	137.4
6	6 13C6-PFDA	519.10 > 473.70	4.87	7772.094	7772.094	YES	177.2	177.2

Name: 170925G2\_27, Date: 25-Sep-2017, Time: 22:59:27, ID: 1701265-85 L-L-1 0.125, Description: L-L-1

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	14502.117	14502.117	NO	82.7	82.7
2	2 13C3-PFHxS	401.9 > 79.9	3.94	9041.079	9041.079	NO	110.6	110.6
3	3 13C8-PFOA	421.3 > 376	4.22	3763.651	3763.651	NO	99.1	99.1
4	4 13C9-PFNA	472.2 > 426.9	4.57	5844.556	5844.556	NO	103.2	103.2
5	5 13C4-PFOS	503.0 > 79.9	4.64	6480.320	6480.320	NO	120.7	120.7
6	6 13C6-PFDA	519.10 > 473.70	4.87	5877.805	5877.805	NO	134.0	134.0

Name: 170925G2\_28, Date: 25-Sep-2017, Time: 23:12:00, ID: B710129-MS1 Matrix Spike 0.125, Description: Matrix Spike

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	14884.944	14884.944	NO	84.8	84.8
2	2 13C3-PFHxS	401.9 > 79.9	3.94	9197.339	9197.339	NO	112.6	112.6
3	3 13C8-PFOA	421.3 > 376	4.22	4063.816	4063.816	NO	107.0	107.0
4	4 13C9-PFNA	472.2 > 426.9	4.57	6739.524	6739.524	NO	119.0	119.0
5	5 13C4-PFOS	503.0 > 79.9	4.64	6548.664	6548.664	NO	122.0	122.0
6	6 13C6-PFDA	519.10 > 473.70	4.87	6305.951	6305.951	NO	143.8	143.8

Name: 170925G2\_29, Date: 25-Sep-2017, Time: 23:24:33, ID: B710129-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.29	14088.697	14088.697	NO	80.3	80.3
2	2 13C3-PFHxS	401.9 > 79.9	3.94	8643.121	8643.121	NO	105.8	105.8
3	3 13C8-PFOA	421.3 > 376	4.22	3570.865	3570.865	NO	94.0	94.0
4	4 13C9-PFNA	472.2 > 426.9	4.57	6124.842	6124.842	NO	108.2	108.2
5	5 13C4-PFOS	503.0 > 79.9	4.64	6388.867	6388.867	NO	119.0	119.0
6	6 13C6-PFDA	519.10 > 473.70	4.87	6005.993	6005.993	NO	136.9	136.9

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**Name: 170925G2\_30, Date: 25-Sep-2017, Time: 23:37:06, ID: 1701265-86 L-L-1-DUP 0.125, Description: L-L-1-DUP**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14056.683	14056.683	NO	80.1	80.1
2	2 13C3-PFHxS	401.9 > 79.9	3.94	9284.398	9284.398	NO	113.6	113.6
3	3 13C8-PFOA	421.3 > 376	4.22	4266.877	4266.877	NO	112.3	112.3
4	4 13C9-PFNA	472.2 > 426.9	4.57	5614.725	5614.725	NO	99.2	99.2
5	5 13C4-PFOS	503.0 > 79.9	4.64	5816.330	5816.330	NO	108.4	108.4
6	6 13C6-PFDA	519.10 > 473.70	4.88	5453.497	5453.497	NO	124.3	124.3

**Name: 170925G2\_31, Date: 25-Sep-2017, Time: 23:49:40, ID: 1701265-87 GW-MW-11 0.125, Description: GW-MW-11**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14876.565	14876.565	NO	84.8	84.8
2	2 13C3-PFHxS	401.9 > 79.9	3.94	9688.690	9688.690	NO	118.6	118.6
3	3 13C8-PFOA	421.3 > 376	4.22	3726.160	3726.160	NO	98.1	98.1
4	4 13C9-PFNA	472.2 > 426.9	4.57	5328.221	5328.221	NO	94.1	94.1
5	5 13C4-PFOS	503.0 > 79.9	4.64	7272.193	7272.193	NO	135.5	135.5
6	6 13C6-PFDA	519.10 > 473.70	4.87	6305.476	6305.476	NO	143.8	143.8

**Name: 170925G2\_32, Date: 26-Sep-2017, Time: 00:02:13, ID: 1701265-88 DW-R-15 0.125, Description: DW-R-15**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14905.667	14905.667	NO	85.0	85.0
2	2 13C3-PFHxS	401.9 > 79.9	3.94	8816.859	8816.859	NO	107.9	107.9
3	3 13C8-PFOA	421.3 > 376	4.22	4229.278	4229.278	NO	111.3	111.3
4	4 13C9-PFNA	472.2 > 426.9	4.57	5603.775	5603.775	NO	99.0	99.0
5	5 13C4-PFOS	503.0 > 79.9	4.64	7388.025	7388.025	NO	137.6	137.6
6	6 13C6-PFDA	519.10 > 473.70	4.88	7199.363	7199.363	YES	164.1	164.1

**Name: 170925G2\_33, Date: 26-Sep-2017, Time: 00:14:42, ID: 1701284-01 OW2C-IDWAQ-091917 0.125, Description: OW2C-IDWAQ-091917**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	14092.905	14092.905	NO	80.3	80.3
2	2 13C3-PFHxS	401.9 > 79.9	3.94	7981.186	7981.186	NO	97.7	97.7
3	3 13C8-PFOA	421.3 > 376	4.22	3650.274	3650.274	NO	96.1	96.1
4	4 13C9-PFNA	472.2 > 426.9	4.57	5090.006	5090.006	NO	89.9	89.9
5	5 13C4-PFOS	503.0 > 79.9	4.64	4805.222	4805.222	NO	89.5	89.5
6	6 13C6-PFDA	519.10 > 473.70	4.88	4986.532	4986.532	NO	113.7	113.7

**Name: 170925G2\_34, Date: 26-Sep-2017, Time: 00:27:18, ID: 1701292-01 Lagoon A 0.125, Description: Lagoon A**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C5-PFHxA	318>272.9	3.30	13849.840	13849.840	NO	78.9	78.9
2	2 13C3-PFHxS	401.9 > 79.9	3.94	8077.887	8077.887	NO	98.9	98.9
3	3 13C8-PFOA	421.3 > 376	4.22	3774.478	3774.478	NO	99.4	99.4
4	4 13C9-PFNA	472.2 > 426.9	4.57	5736.870	5736.870	NO	101.3	101.3
5	5 13C4-PFOS	503.0 > 79.9	4.64	6511.729	6511.729	NO	121.3	121.3
6	6 13C6-PFDA	519.10 > 473.70	4.87	6065.290	6065.290	NO	138.3	138.3

Dataset: U:\G1.PRO\Results\2017\170925G2\170925G2-IIS AREAS.qld

Last Altered: Tuesday, September 26, 2017 09:09:39 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 09:10:52 Pacific Daylight Time

**Name: 170925G2\_35, Date: 26-Sep-2017, Time: 00:39:48, ID: IPA, Description: IPA**

	#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1	13C5-PFHxA	318>272.9				NO		
2	2	13C3-PFHxS	401.9 > 79.9				NO		
3	3	13C8-PFOA	421.3 > 376				NO		
4	4	13C9-PFNA	472.2 > 426.9				NO		
5	5	13C4-PFOS	503.0 > 79.9				NO		
6	6	13C6-PFDA	519.10 > 473.70				NO		

**Name: 170925G2\_36, Date: 26-Sep-2017, Time: 00:52:24, ID: ST170925G2-3 PFC CS3 17I2002, Description: PFC CS3 17I2002**

	#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1	13C5-PFHxA	318>272.9	3.31	17309.139	17309.139	NO	12.3	98.7
2	2	13C3-PFHxS	401.9 > 79.9	3.94	8580.321	8580.321	NO	13.1	105.0
3	3	13C8-PFOA	421.3 > 376	4.22	4404.479	4404.479	NO	14.5	115.9
4	4	13C9-PFNA	472.2 > 426.9	4.57	5959.095	5959.095	NO	13.2	105.3
5	5	13C4-PFOS	503.0 > 79.9	4.64	4993.217	4993.217	NO	11.6	93.0
6	6	13C6-PFDA	519.10 > 473.70	4.88	3251.741	3251.741	NO	9.3	74.1

Dataset: Untitled

Last Altered: Monday, September 25, 2017 14:54:18 Pacific Daylight Time

Printed: Monday, September 25, 2017 14:54:52 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G1\_3, Date: 25-Sep-2017, Time: 11:32:08, ID: IPA, Description: IPA

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.000						
2	2 PFPeA	263.0 > 218.8	1.000						
3	3 PFBS	299.0 > 79.7	1.000						
4	4 PFHxA	312.9 > 268.9	1.000						
5	5 PFHpA	363 > 318.9	1.000						
6	6 PFHxS	398.9 > 79.6	1.000						
7	7 PFOA	413.0 > 368.7	1.000						
8	8 PFNA	463.0 > 418.8	1.000						
9	9 PFOS	499.0 > 79.9	1.000						
10	10 PFDA	512.7 > 219.0	1.000						
11	11 13C3-PFBA	215.9 > 171.8	1.000						
12	12 13C3-PFBS	302.0 > 98.8	1.000						
13	13 13C3-PFPeA	266.0 > 221.8	1.000						
14	14 13C2-PFHxA	315.0 > 269.8	1.000						
15	15 13C4-PFHpA	367.2 > 321.8	1.000						
16	16 18O2-PFHxS	403 > 102.6	1.000						
17	17 13C2-PFOA	414.9 > 369.7	1.000						
18	18 13C5-PFNA	468.2 > 422.9	1.000						
19	19 13C2-PFDA	514.8 > 469.7	1.000						
20	20 13C8-PFOS	507.0 > 79.9	1.000			7.2			
21	21 13C4-PFBA	216.9 > 171.8	1.000						
22	22 13C5-PFHxA	318 > 272.9	1.000						
23	23 13C3-PFHxS	401.9 > 79.9	1.000						
24	24 13C8-PFOA	421.3 > 376	1.000						
25	25 13C9-PFNA	472.2 > 426.9	1.000						
26	26 13C4-PFOS	503.0 > 79.9	1.000	4.66	7.2	7.2	12.500	12.5000	100.0
27	27 13C6-PFDA	519.10 > 473.70	1.000						
28	28 Total PFHxS	398.9 > 79.6	1.000		0.0		0.000		
29	29 Total PFOA	413.0 > 368.7	1.000		16.5		0.000		
30	30 Total PFOS	499.0 > 79.9	1.000		0.0		0.000		



Vista Analytical Laboratory Q1

Dataset: Untitled

Last Altered: Monday, September 25, 2017 14:54:18 Pacific Daylight Time

Printed: Monday, September 25, 2017 14:54:52 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G1\_3, Date: 25-Sep-2017, Time: 11:32:08, ID: IPA, Description: IPA

**Total PFHxS**

#	Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1								

**Total PFOA**

#	Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1	29 Total PFOA	413.0 > 368.7	4.51	8.495			bb	
2	29 Total PFOA	413.0 > 368.7	4.39	8.028			bb	

**Total PFOS**

#	Name	Trace	RT	Area	IS Area	Response	Primar...	Conc.
1								

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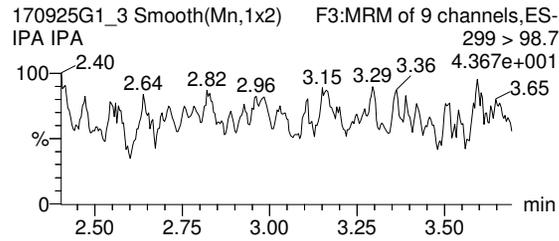
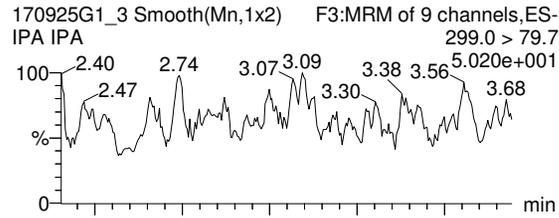
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Printed: Monday, September 25, 2017 14:54:52 Pacific Daylight Time

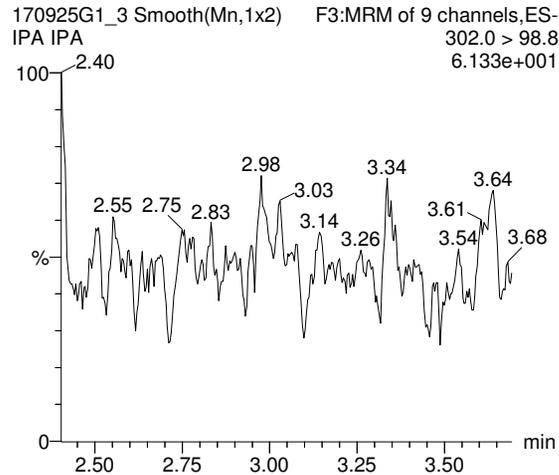
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Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G1\_3, Date: 25-Sep-2017, Time: 11:32:08, ID: IPA, Description: IPA

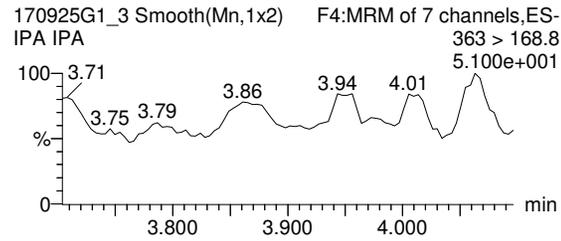
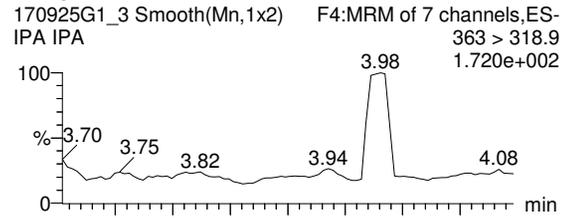
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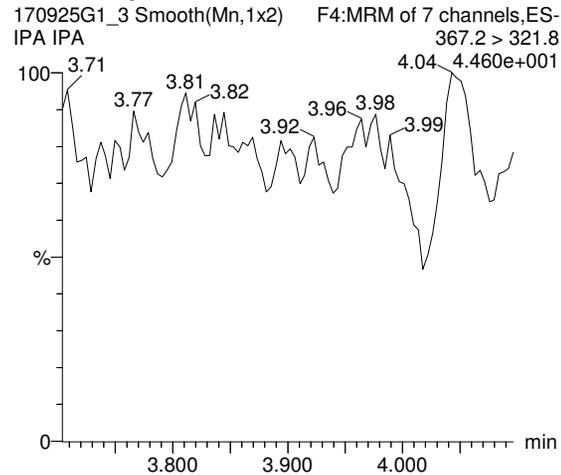
**13C3-PFBS**



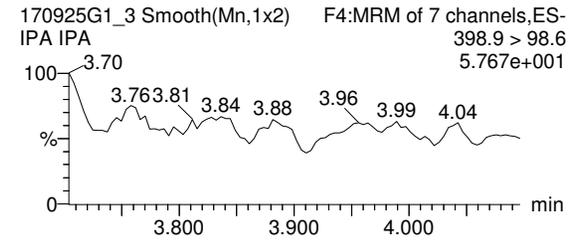
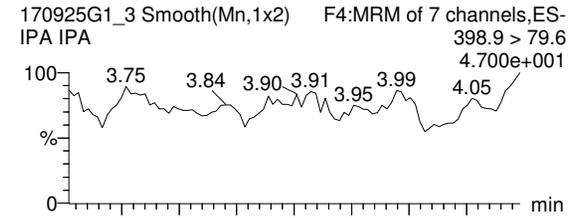
**PFHpA**



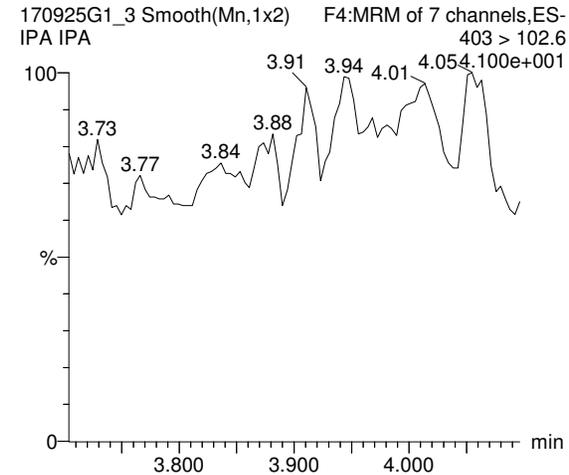
**13C4-PFHpA**



**Total PFHxS**



**18O2-PFHxS**



Dataset: Untitled

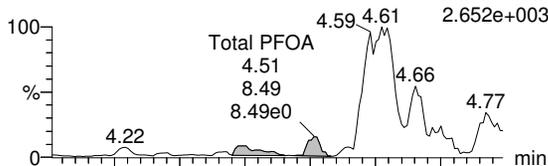
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Printed: Monday, September 25, 2017 14:54:52 Pacific Daylight Time

Name: 170925G1\_3, Date: 25-Sep-2017, Time: 11:32:08, ID: IPA, Description: IPA

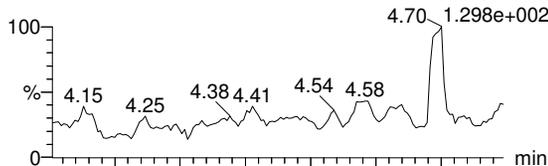
**Total PFOA**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 368.7 2.652e+003



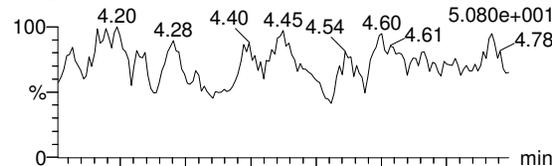
**PFNA**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 418.8 1.298e+002

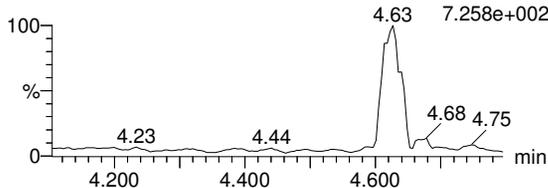


**Total PFOS**

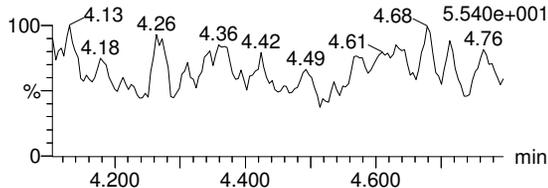
170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499.0 > 79.9 5.080e+001



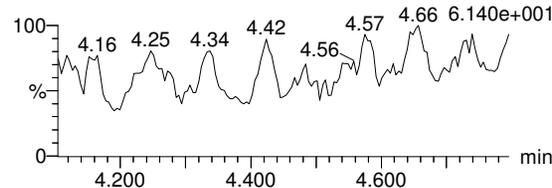
170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 168.8 7.258e+002



170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 219.0 5.540e+001

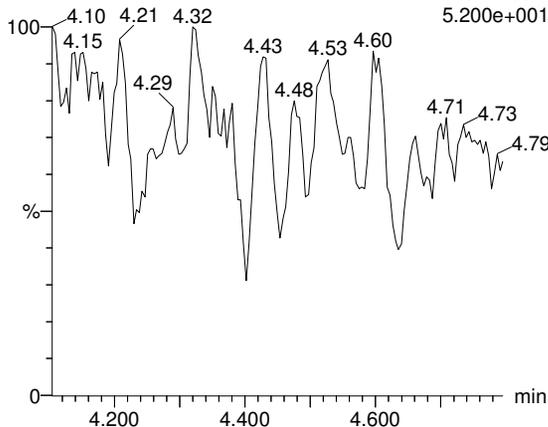


170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499 > 98.8 6.140e+001



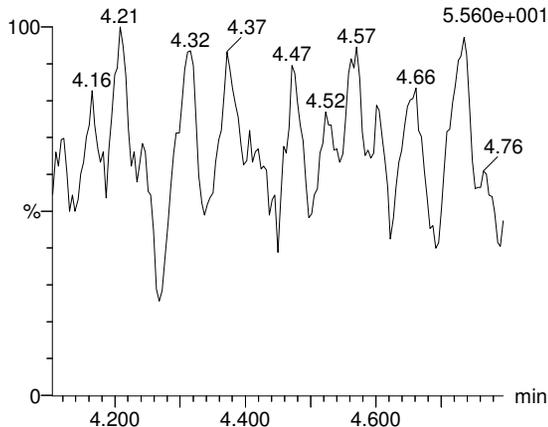
**13C2-PFOA**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 414.9 > 369.7 5.200e+001



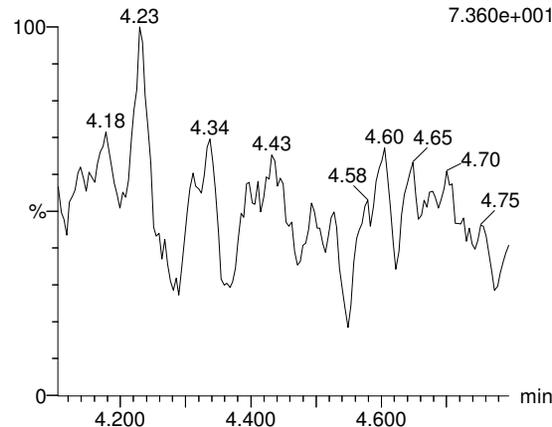
**13C5-PFNA**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 468.2 > 422.9 5.560e+001



**13C8-PFOS**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 507.0 > 79.9 7.360e+001



Dataset: Untitled

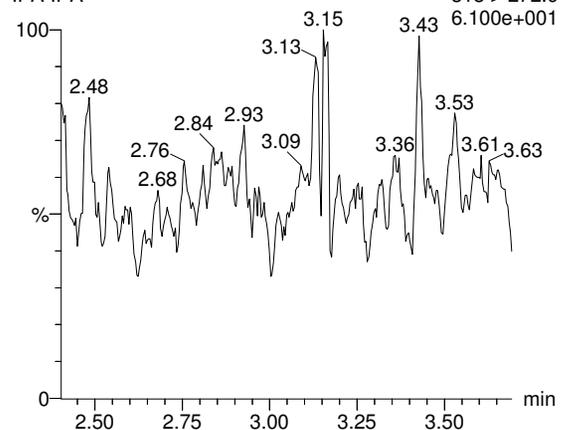
Last Altered: Monday, September 25, 2017 14:54:18 Pacific Daylight Time

Printed: Monday, September 25, 2017 14:54:52 Pacific Daylight Time

Name: 170925G1\_3, Date: 25-Sep-2017, Time: 11:32:08, ID: IPA, Description: IPA

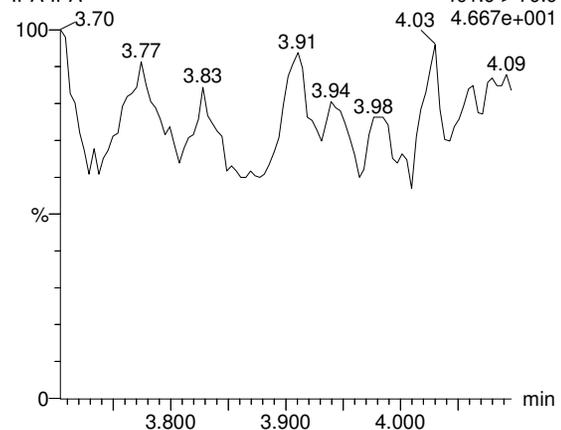
**13C5-PFHxA**

170925G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 318 > 272.9



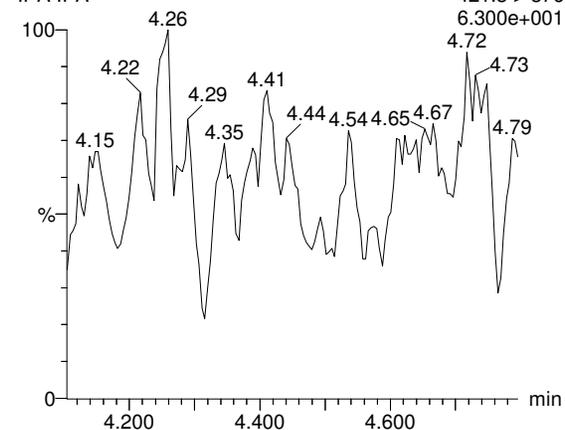
**13C3-PFHxS**

170925G1\_3 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 401.9 > 79.9



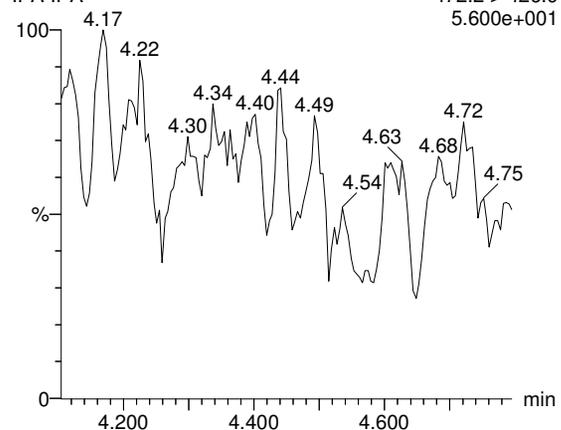
**13C8-PFOA**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 421.3 > 376



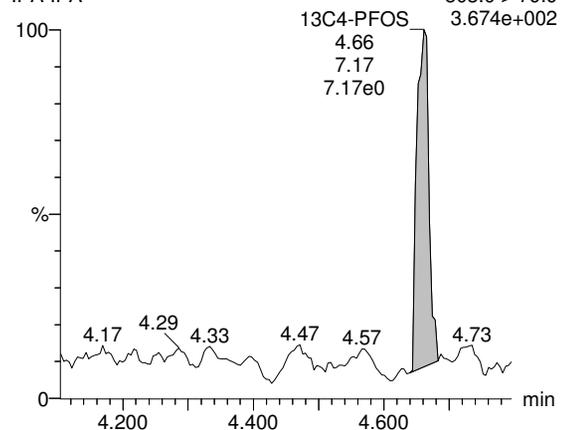
**13C9-PFNA**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 472.2 > 426.9



**13C4-PFOS**

170925G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 503.0 > 79.9



Dataset: U:\G1.PRO\Results\2017\170925G1\170925G1-2.qld

Last Altered: Monday, September 25, 2017 15:55:03 Pacific Daylight Time

Printed: Monday, September 25, 2017 15:55:24 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G1\_2, Date: 25-Sep-2017, Time: 11:08:45, ID: ST170925G1-1 PFC CS0 17I2003, Description: PFC CS0 17I2003

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	5.59e2	5.18e3	1.0000		2.95	2.95	1.35	0.833	83.3
2	5 PFHpA	363 > 318.9	1.51e3	7.92e3	1.0000		3.84	3.84	2.39	1.09	108.6
3	6 PFHxS	398.9 > 79.6	4.53e2	3.50e3	1.0000		3.96	3.96	1.62	0.932	93.2
4	7 PFOA	413.0 > 368.7	1.64e3	1.63e4	1.0000		4.24	4.24	1.26	1.29	128.9
5	8 PFNA	463.0 > 418.8	6.37e2	3.04e3	1.0000		4.59	4.59	2.61	1.13	113.0
6	9 PFOS	499.0 > 79.9	2.14e1	9.68e2	1.0000		4.65	4.65	0.276	0.765	76.5
7	12 13C3-PFBS	302.0 > 98.8	5.18e3	1.94e4	1.0000	0.391	3.32	2.95	3.33	8.52	68.2
8	15 13C4-PFHpA	367.2 > 321.8	7.92e3	1.94e4	1.0000	0.547	3.84	3.84	5.09	9.30	74.4
9	16 18O2-PFHxS	403 > 102.6	3.50e3	7.72e3	1.0000	0.495	3.96	3.96	5.67	11.4	91.6
10	17 13C2-PFOA	414.9 > 369.7	1.63e4	4.30e3	1.0000	3.320	4.24	4.24	47.4	14.3	114.3
11	18 13C5-PFNA	468.2 > 422.9	3.04e3	3.32e3	1.0000	1.052	4.58	4.59	11.5	10.9	87.2
12	20 13C8-PFOS	507.0 > 79.9	9.68e2	1.11e3	1.0000	0.979	4.65	4.65	10.9	11.1	88.9
13	22 13C5-PFHxA	318 > 272.9	1.94e4	1.94e4	1.0000	1.000	3.37	3.32	12.5	12.5	100.0
14	23 13C3-PFHxS	401.9 > 79.9	7.72e3	7.72e3	1.0000	1.000	4.03	3.96	12.5	12.5	100.0
15	24 13C8-PFOA	421.3 > 376	4.30e3	4.30e3	1.0000	1.000	4.31	4.24	12.5	12.5	100.0
16	25 13C9-PFNA	472.2 > 426.9	3.32e3	3.32e3	1.0000	1.000	4.64	4.58	12.5	12.5	100.0
17	26 13C4-PFOS	503.0 > 79.9	1.11e3	1.11e3	1.0000	1.000	4.71	4.65	12.5	12.5	100.0

70-130  
↓  
50-150  
↓

X01 9/25/17

Dataset: Untitled

Last Altered: Monday, September 25, 2017 14:50:25 Pacific Daylight Time

Printed: Monday, September 25, 2017 14:51:03 Pacific Daylight Time

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Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Compound name: PFBA

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2	170925G1_2	ST170925G1-1 PFC CS0 17I2003	25-Sep-17	11:08:45
3	170925G1_3	IPA	25-Sep-17	11:32:08
4	170925G1_4	1701173-05@20X B-G-GW 0.10784	25-Sep-17	11:44:21
5	170925G1_5	1701173-06@20X B-F-GW 0.10571	25-Sep-17	11:56:48
6	170925G1_6	1701173-07 B-S-GW 0.1144	25-Sep-17	12:09:22
7	170925G1_7	IPA	25-Sep-17	12:21:55
8	170925G1_8	ST170925G1-2 PFC CS3 17I2002	25-Sep-17	12:34:31
9	170925G1_9	IPA	25-Sep-17	12:47:00



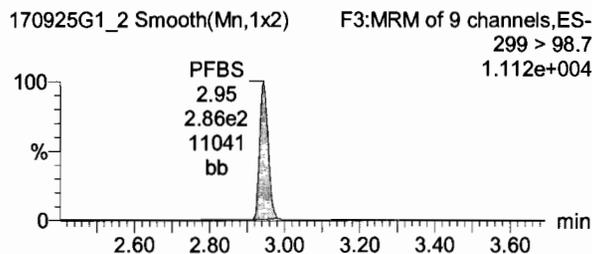
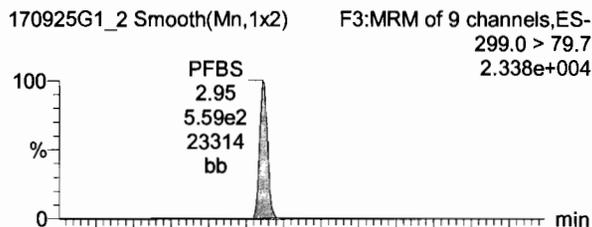
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Printed: Monday, September 25, 2017 15:55:24 Pacific Daylight Time

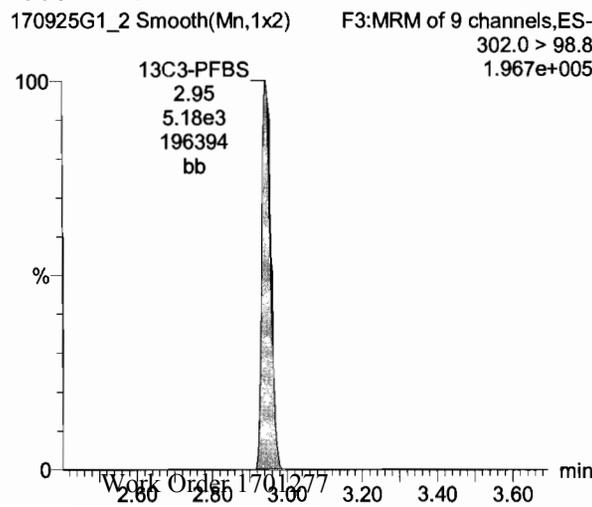
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Name: 170925G1\_2, Date: 25-Sep-2017, Time: 11:08:45, ID: ST170925G1-1 PFC CS0 17I2003, Description: PFC CS0 17I2003

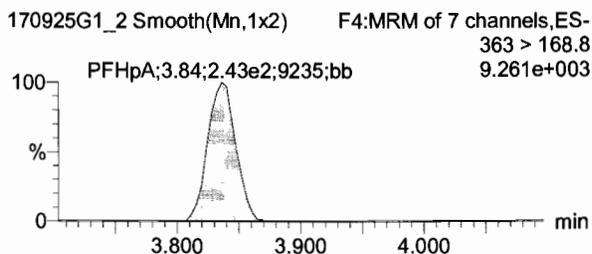
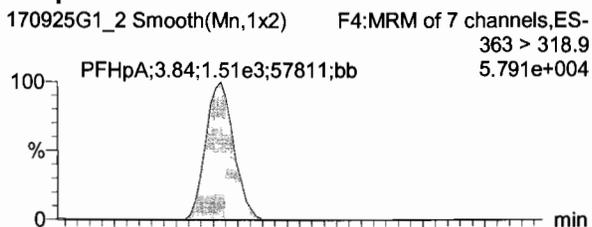
**PFBS**



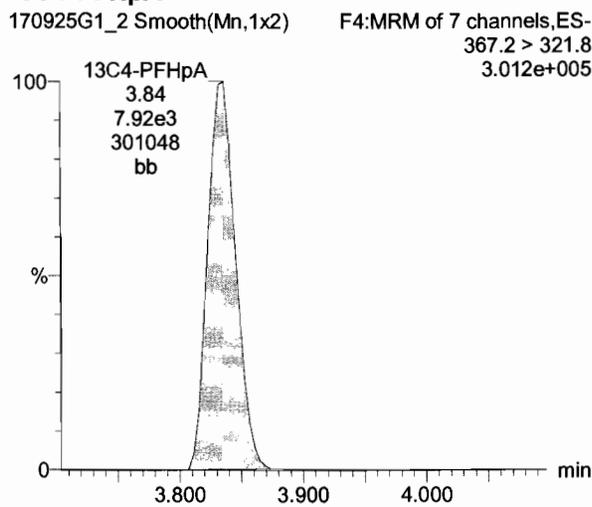
**13C3-PFBS**



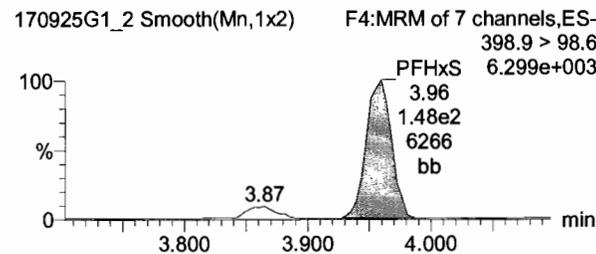
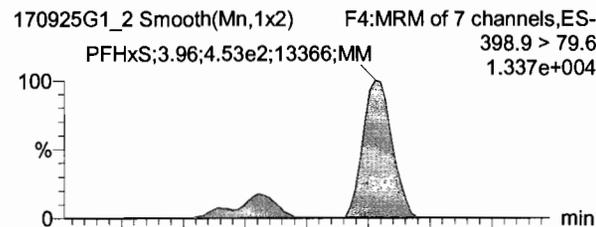
**PFHpA**



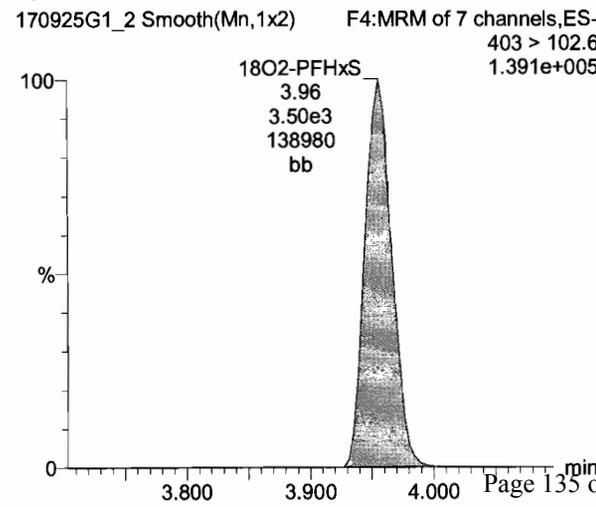
**13C4-PFHpA**



**Total PFHxS**



**18O2-PFHxS**



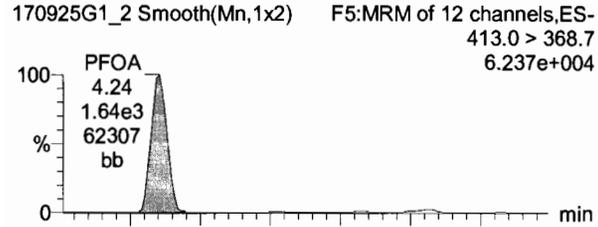


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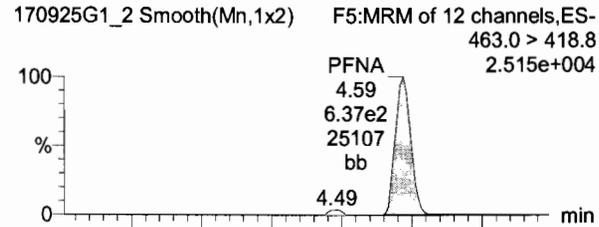
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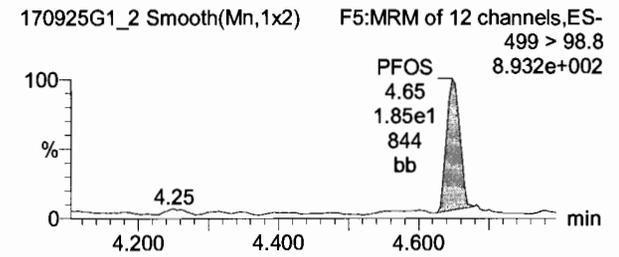
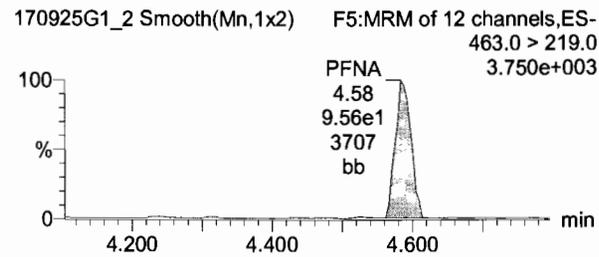
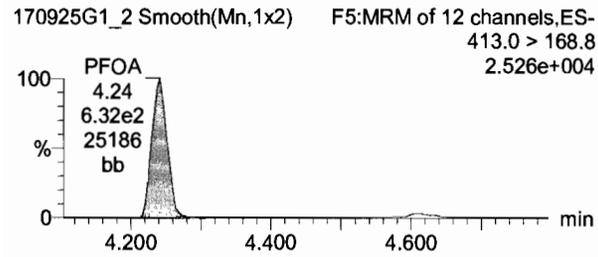
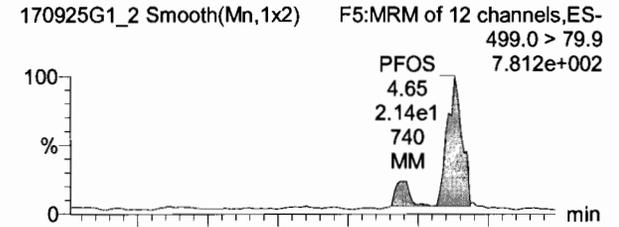
**Total PFOA**



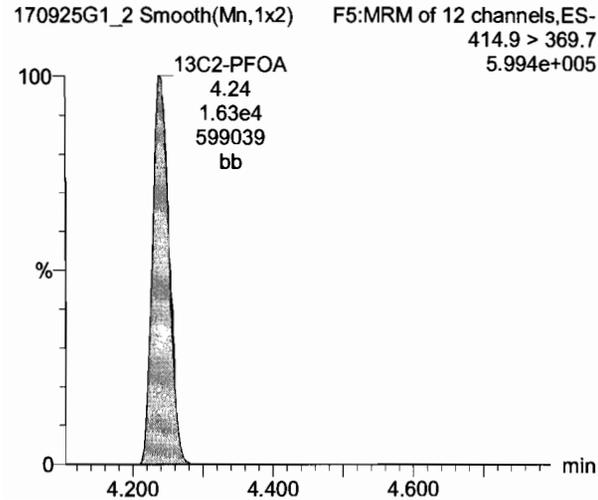
**PFNA**



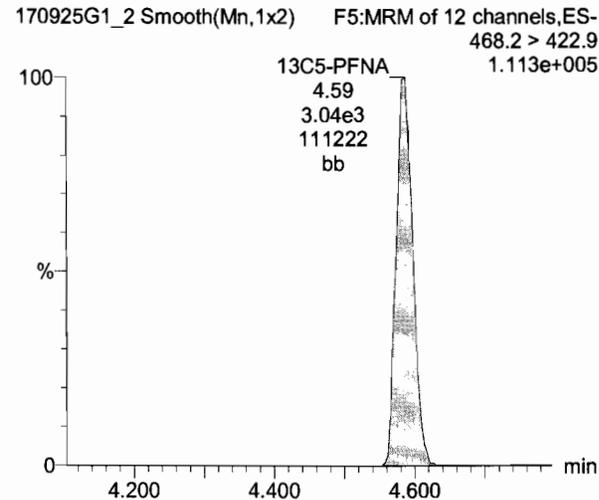
**Total PFOS**



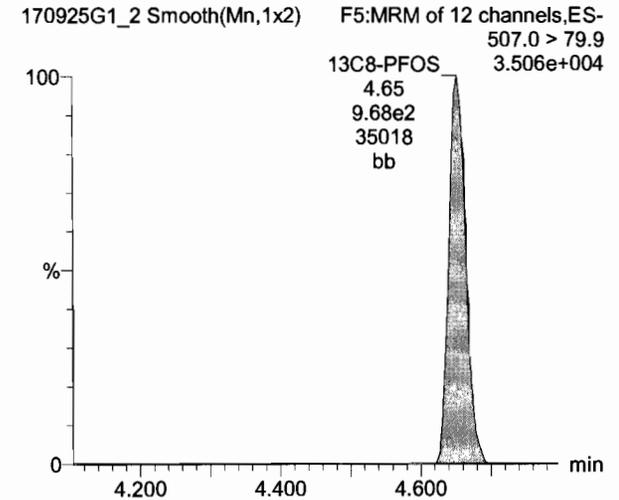
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



Dataset: U:\G1.PRO\Results\2017\170925G1\170925G1-2.qld

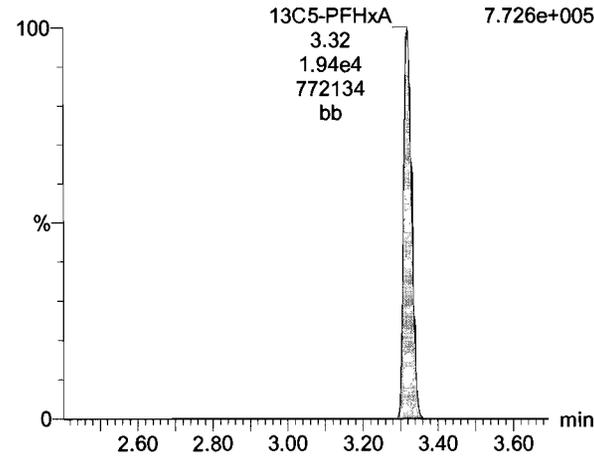
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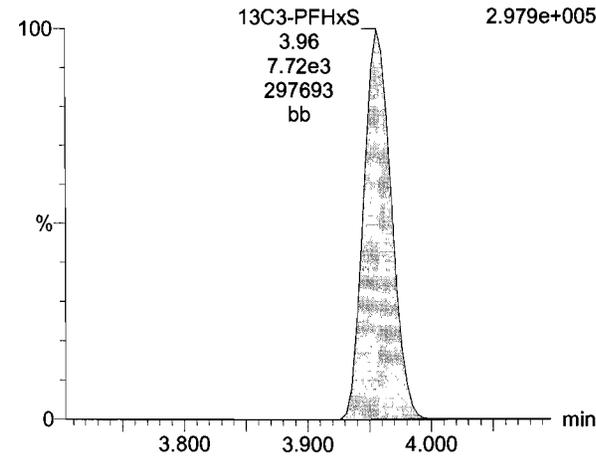
**13C5-PFHxA**

170925G1\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-318 > 272.9  
7.726e+005



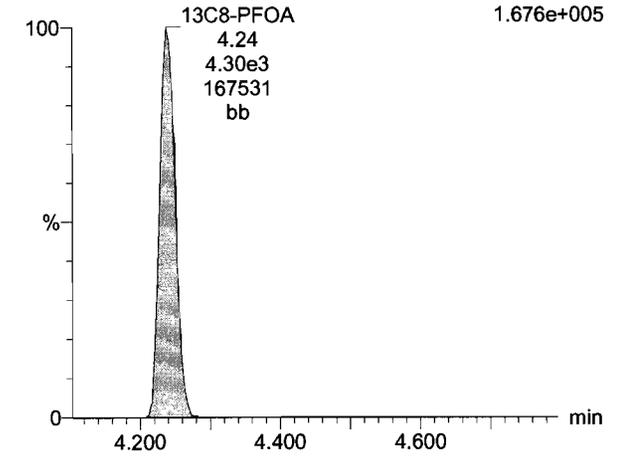
**13C3-PFHxS**

170925G1\_2 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-401.9 > 79.9  
2.979e+005



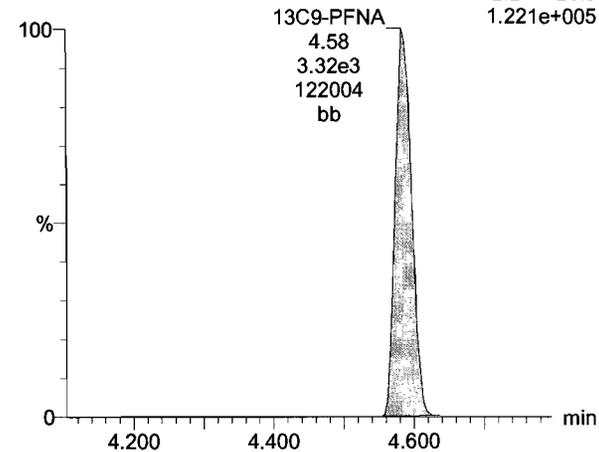
**13C8-PFOA**

170925G1\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-421.3 > 376  
1.676e+005



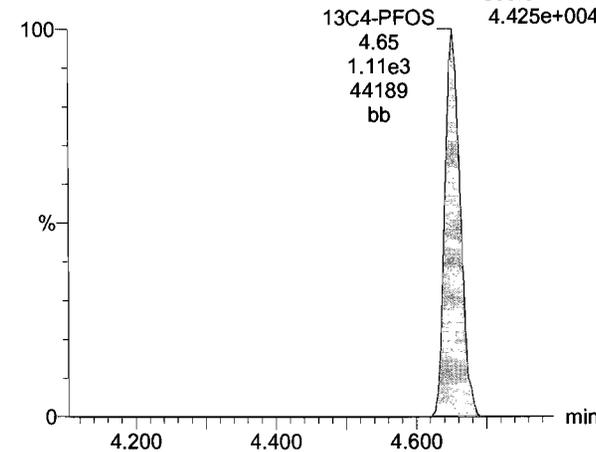
**13C9-PFNA**

170925G1\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-472.2 > 426.9  
1.221e+005



**13C4-PFOS**

170925G1\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-503.0 > 79.9  
4.425e+004



Dataset: U:\G1.PRO\Results\2017\New folder (2)\170925G2-2.qld

Last Altered: Tuesday, September 26, 2017 08:34:41 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:36:45 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_2, Date: 25-Sep-2017, Time: 17:45:42, ID: ST170925G2-2 PFC CS3 1712002, Description: PFC CS3 1712002

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✓ J.A.  
9/26/2017

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.000	1.73	12436.4	25576.1	6.078	7.3182	73.2
2	2 PFPeA	263.0 > 218.8	1.000	2.67	7373.6	7634.2	12.073	10.2271	102.3
3	3 PFBS	299.0 > 79.7	1.000	2.95	4319.4	4043.7	13.352	7.6465	76.5
4	4 PFHxA	312.9 > 268.9	1.000	3.32	8417.5	6839.3	15.385	8.9828	89.8
5	5 PFHpA	363 > 318.9	1.000	3.84	15212.6	7883.4	24.121	11.0825	110.8
6	6 PFHxS	398.9 > 79.6	1.000	3.96	5176.4	4117.6	15.714	8.9511	89.5
7	7 PFOA	413.0 > 368.7	1.000	4.24	13454.9	18830.7	8.932	9.2192	92.2
8	8 PFNA	463.0 > 418.8	1.000	4.59	11843.0	5246.4	28.217	12.9332	129.3
9	9 PFOS	499.0 > 79.9	1.000	4.66	1840.8	4959.4	4.640	9.8553	98.6
10	10 PFDA	512.7 > 219.0	1.000	4.89	1605.1	9577.2	2.095	11.7684	117.7
11	11 13C3-PFBA	215.9 > 171.8	1.000	1.73	25576.1	16626.5	19.228	15.6032	124.8
12	12 13C3-PFBS	302.0 > 98.8	1.000	2.95	4043.7	17542.8	2.881	7.3684	58.9
13	13 13C3-PFPeA	266.0 > 221.8	1.000	2.67	7634.2	17542.8	5.440	13.1621	105.3
14	14 13C2-PFHxA	315.0 > 269.8	1.000	3.32	6839.3	17542.8	4.873	11.9167	95.3
15	15 13C4-PFHpA	367.2 > 321.8	1.000	3.84	7883.4	17542.8	5.617	10.2674	82.1
16	16 18O2-PFHxS	403 > 102.6	1.000	3.96	4117.6	8171.2	6.299	12.7171	101.7
17	17 13C2-PFOA	414.9 > 369.7	1.000	4.24	18830.7	3799.0	61.960	18.6646	149.3
18	18 13C5-PFNA	468.2 > 422.9	1.000	4.59	5246.4	5661.7	11.583	11.0106	88.1
19	19 13C2-PFDA	514.8 > 469.7	1.000	4.89	9577.2	4385.9	27.296	11.9579	95.7
20	20 13C8-PFOS	507.0 > 79.9	1.000	4.66	4959.4	5367.4	11.550	11.7998	94.4
21	21 13C4-PFBA	216.9 > 171.8	1.000	1.73	16626.5	16626.5	12.500	12.5000	100.0
22	22 13C5-PFHxA	318 > 272.9	1.000	3.32	17542.8	17542.8	12.500	12.5000	100.0
23	23 13C3-PFHxS	401.9 > 79.9	1.000	3.96	8171.2	8171.2	12.500	12.5000	100.0
24	24 13C8-PFOA	421.3 > 376	1.000	4.24	3799.0	3799.0	12.500	12.5000	100.0
25	25 13C9-PFNA	472.2 > 426.9	1.000	4.59	5661.7	5661.7	12.500	12.5000	100.0
26	26 13C4-PFOS	503.0 > 79.9	1.000	4.66	5367.4	5367.4	12.500	12.5000	100.0
27	27 13C6-PFDA	519.10 > 473.70	1.000	4.89	4385.9	4385.9	12.500	12.5000	100.0

70-130  
↓  
50-150  
↓

Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 08:48:17 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:49:07 Pacific Daylight Time

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Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170925G2_1	IPA	25-Sep-17	17:33:28
2	170925G2_2	ST170925G2-2 PFC CS3 17I2002	25-Sep-17	17:45:42
3	170925G2_3	IPA	25-Sep-17	17:58:16
4	170925G2_4	B7I0112-BS1 OPR 0.125	25-Sep-17	18:10:50
5	170925G2_5	IPA	25-Sep-17	18:23:22
6	170925G2_6	B7I0112-BLK1 Method Blank 0.125	25-Sep-17	18:35:57
7	170925G2_7	1701277-01 OW2E-MW09R-0917 0.11883	25-Sep-17	18:48:27
8	170925G2_8	1701277-02 OW2C-MW05-0917 0.11734	25-Sep-17	19:01:00
9	170925G2_9	1701277-03 OW2C-MW05P-0917 0.10421	25-Sep-17	19:13:35
10	170925G2_10	1701277-04 OW2C-MW25-0917 0.10208	25-Sep-17	19:26:07
11	170925G2_11	1701277-05 OW2C-MW19-0917 0.10774	25-Sep-17	19:38:40
12	170925G2_12	1701277-06 OW2C-MW24-0917 0.10943	25-Sep-17	19:51:15
13	170925G2_13	B7I0112-MS1 Matrix Spike 0.1171	25-Sep-17	20:03:44
14	170925G2_14	B7I0112-MSD1 Matrix Spike Dup 0.11523	25-Sep-17	20:16:17
15	170925G2_15	1701277-07 OW2C-EB-0917 0.11692	25-Sep-17	20:28:53
16	170925G2_16	1701277-08 OW2C-FB-0917 0.11728	25-Sep-17	20:41:28
17	170925G2_17	1701285-01 BADIN-FB-01-091917 0.10823	25-Sep-17	20:54:01
18	170925G2_18	1701290-01 STWRT-FB-KED-092117 0.1134	25-Sep-17	21:06:35
19	170925G2_19	IPA	25-Sep-17	21:19:07
20	170925G2_20	ST170925G2-2 PFC CS3 17I2002	25-Sep-17	21:31:39
21	170925G2_21	IPA	25-Sep-17	21:44:10
22	170925G2_22	B7I0129-BS1 OPR 0.125	25-Sep-17	21:56:46
23	170925G2_23	IPA	25-Sep-17	22:09:19
24	170925G2_24	B7I0129-BLK1 Method Blank 0.125	25-Sep-17	22:21:51
25	170925G2_25	1701265-83 DW-R-346BHR 0.125	25-Sep-17	22:34:21
26	170925G2_26	1701265-84 DW-R-340BHR 0.125	25-Sep-17	22:46:53
27	170925G2_27	1701265-85 L-L-1 0.125	25-Sep-17	22:59:27
28	170925G2_28	B7I0129-MS1 Matrix Spike 0.125	25-Sep-17	23:12:00
29	170925G2_29	B7I0129-MSD1 Matrix Spike Dup 0.125	25-Sep-17	23:24:33
30	170925G2_30	1701265-86 L-L-1-DUP 0.125	25-Sep-17	23:37:06
31	170925G2_31	1701265-87 GW-MW-11 0.125	25-Sep-17	23:49:40

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Last Altered: Tuesday, September 26, 2017 08:48:17 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:49:07 Pacific Daylight Time

Compound name: PFBA

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32	170925G2_32	1701265-88 DW-R-15 0.125	26-Sep-17	00:02:13
33	170925G2_33	1701284-01 OW2C-IDWAQ-091917 0.125	26-Sep-17	00:14:42
34	170925G2_34	1701292-01 Lagoon A 0.125	26-Sep-17	00:27:18
35	170925G2_35	IPA	26-Sep-17	00:39:48
36	170925G2_36	ST170925G2-3 PFC CS3 17I2002	26-Sep-17	00:52:24
37	170925G2_37	IPA	26-Sep-17	01:04:53
38	170925G2_38	1701173-05RE1@40X B-G-GW 0.10784	26-Sep-17	01:17:31
39	170925G2_39	1701173-06RE1@40X B-F-GW 0.10571	26-Sep-17	01:30:00
40	170925G2_40	1701173-11RE1@20X MH-1 0.11693	26-Sep-17	01:42:33
41	170925G2_41	1701173-13RE1@10X OF1N-NW 0.11452	26-Sep-17	01:55:07
42	170925G2_42	1701173-14RE1@60X Ditch_1 0.11027	26-Sep-17	02:07:41
43	170925G2_43	IPA	26-Sep-17	02:20:10
44	170925G2_44	ST170925G2-4 PFC CS3 17I2002	26-Sep-17	02:32:48
45	170925G2_45	IPA	26-Sep-17	02:45:17



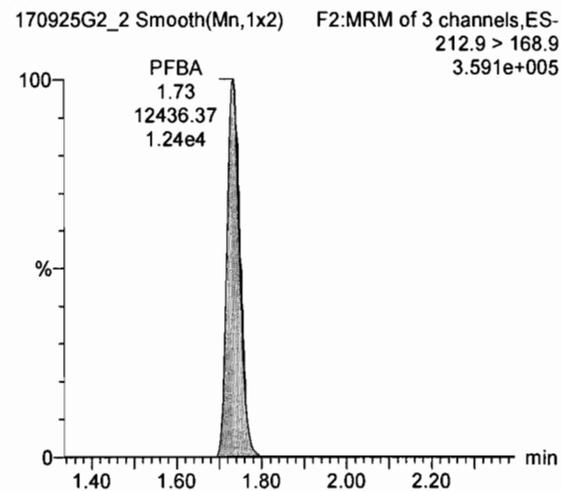
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Last Altered: Tuesday, September 26, 2017 08:34:41 Pacific Daylight Time  
Printed: Tuesday, September 26, 2017 08:36:45 Pacific Daylight Time

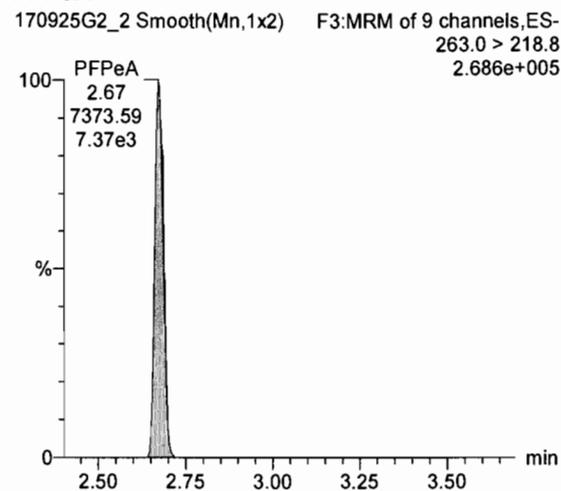
Method: U:\G1.pro\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_2, Date: 25-Sep-2017, Time: 17:45:42, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

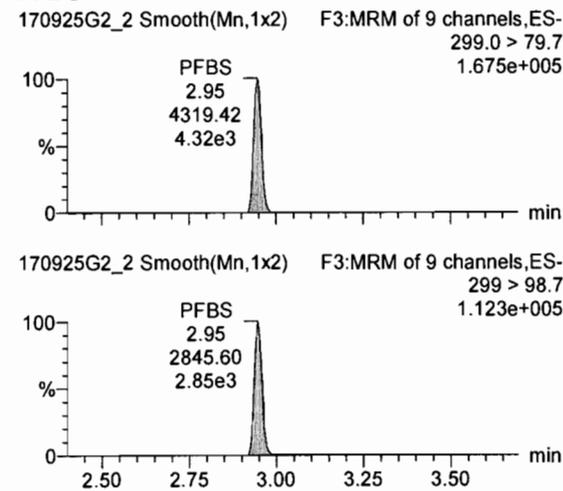
**PFBA**



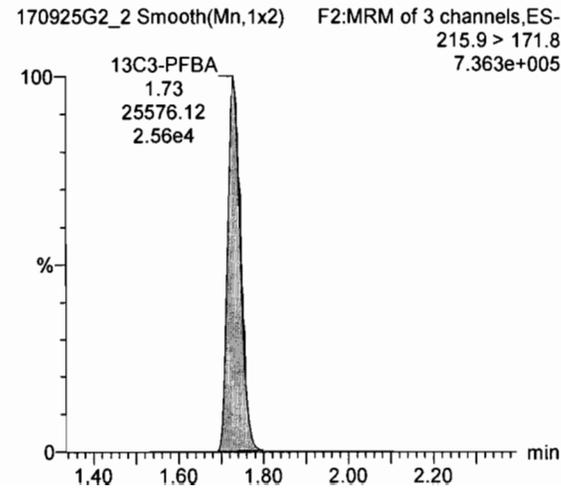
**PFPeA**



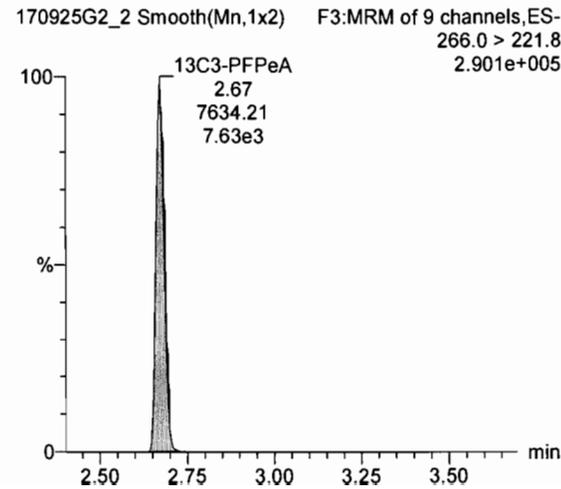
**PFBS**



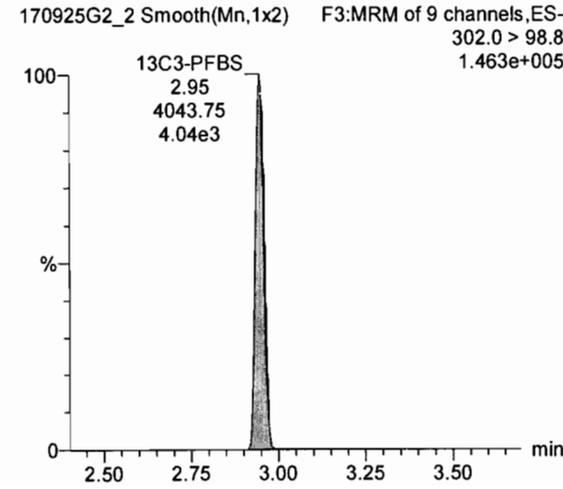
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

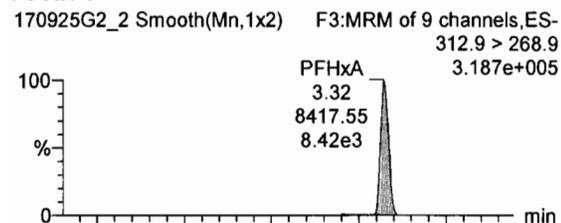


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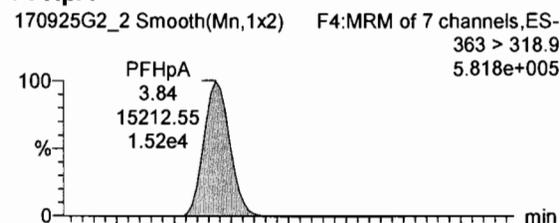
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Printed: Tuesday, September 26, 2017 08:36:45 Pacific Daylight Time

Name: 170925G2\_2, Date: 25-Sep-2017, Time: 17:45:42, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

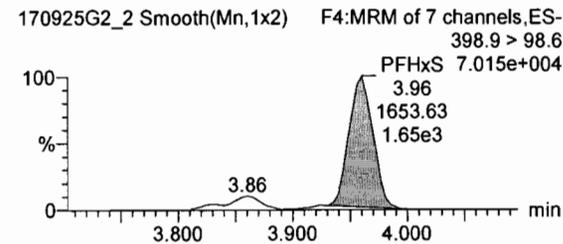
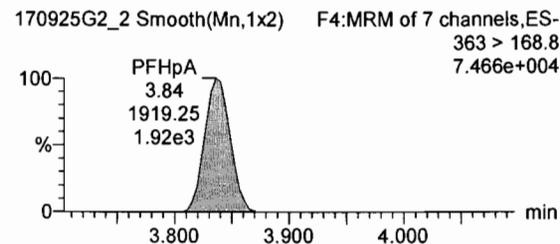
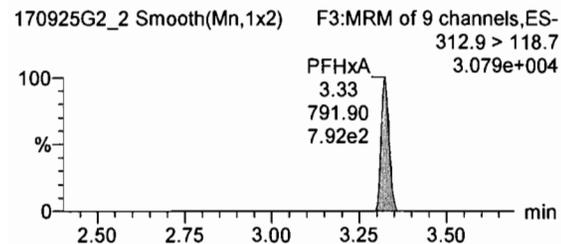
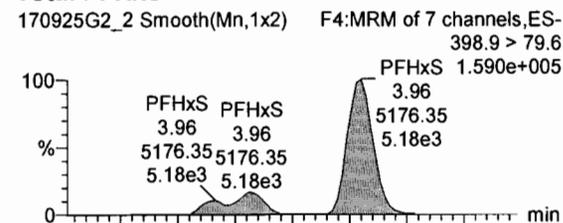
**PFHxA**



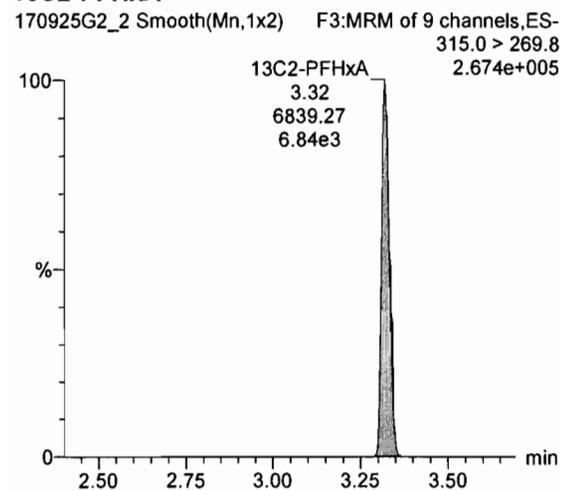
**PFHpA**



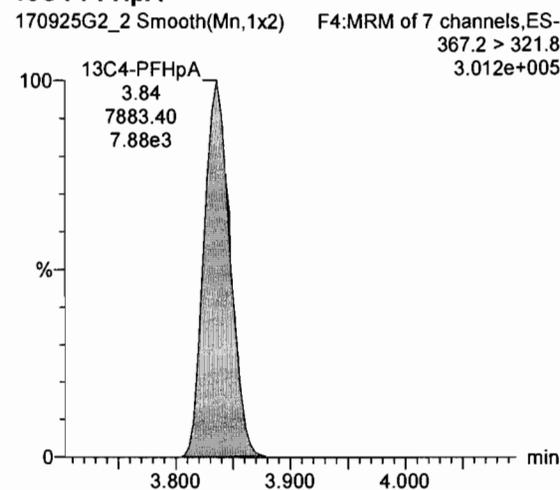
**Total PFHxS**



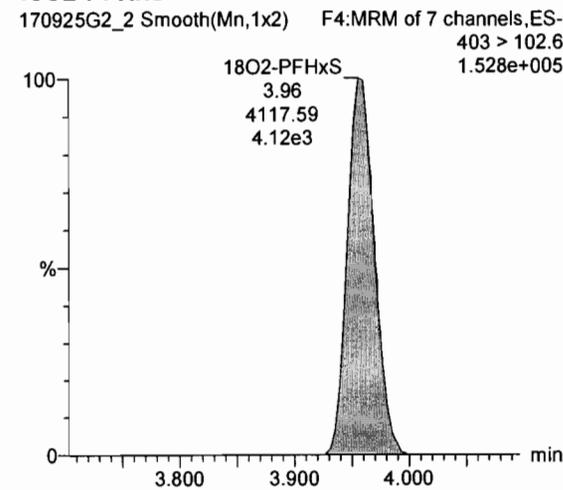
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



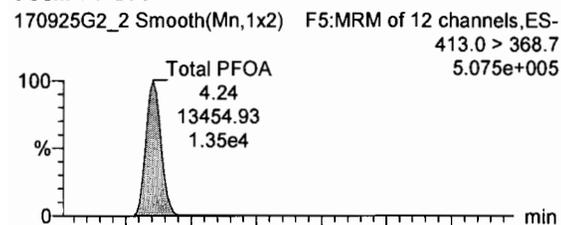


Dataset: U:\G1.PRO\Results\2017\New folder (2)\170925G2-2.qld

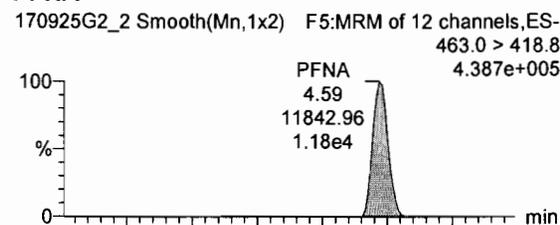
Last Altered: Tuesday, September 26, 2017 08:34:41 Pacific Daylight Time  
 Printed: Tuesday, September 26, 2017 08:36:45 Pacific Daylight Time

Name: 170925G2\_2, Date: 25-Sep-2017, Time: 17:45:42, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

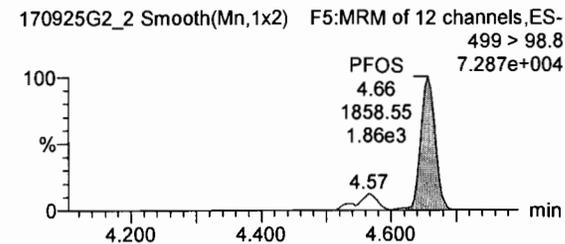
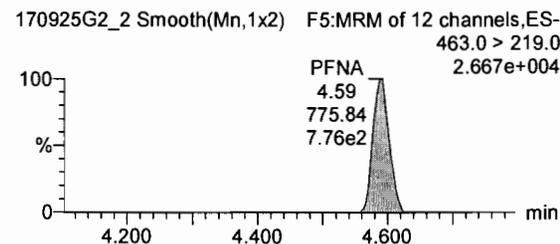
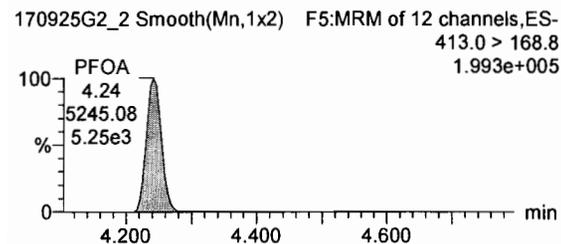
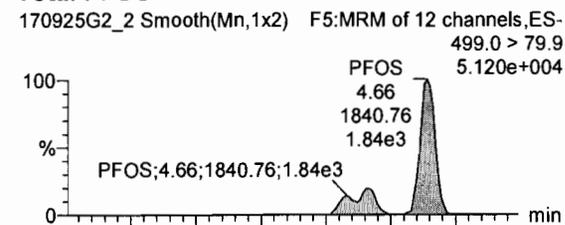
**Total PFOA**



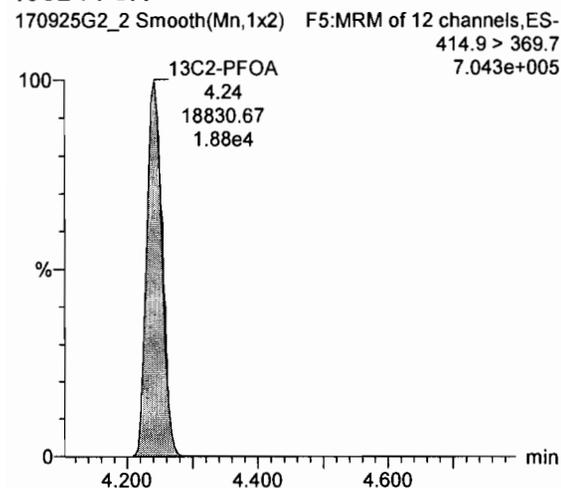
**PFNA**



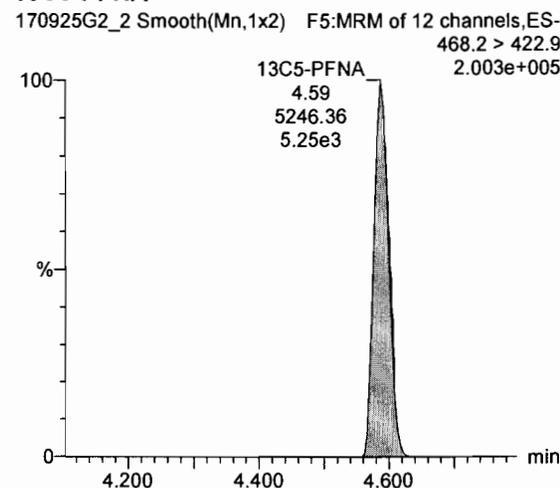
**Total PFOS**



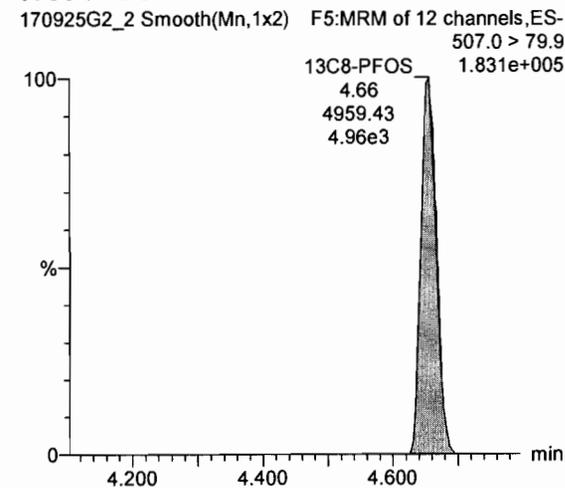
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



Dataset: U:\G1.PRO\Results\2017\New folder (2)\170925G2-2.qld

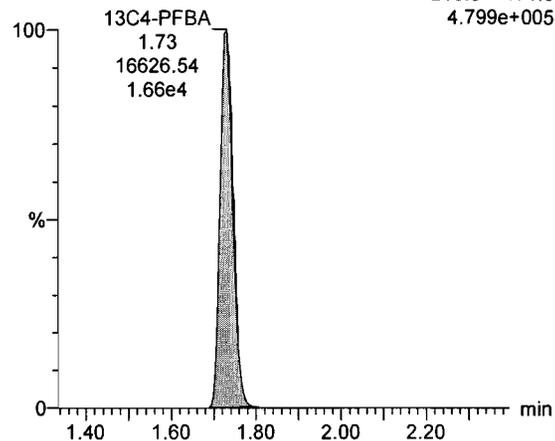
Last Altered: Tuesday, September 26, 2017 08:34:41 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:36:45 Pacific Daylight Time

Name: 170925G2\_2, Date: 25-Sep-2017, Time: 17:45:42, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

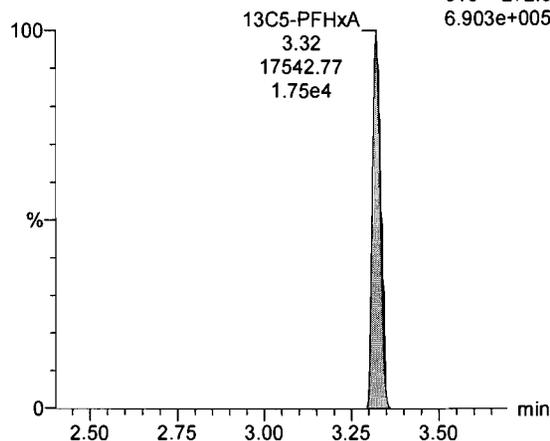
**13C4-PFBA**

170925G2\_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
4.799e+005



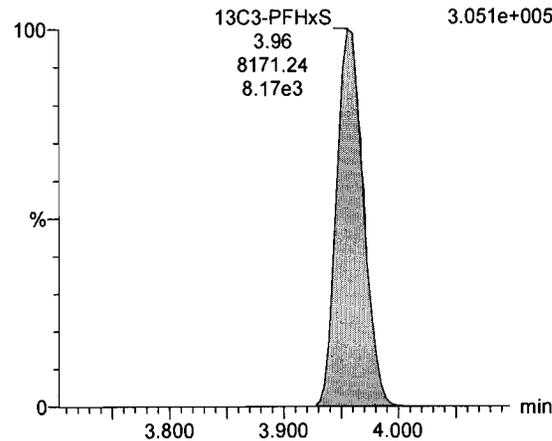
**13C5-PFHxA**

170925G2\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.903e+005



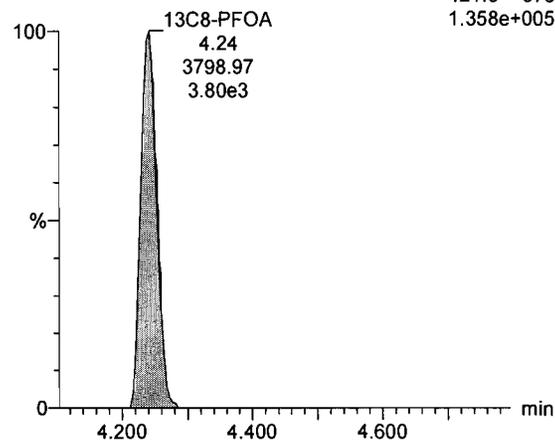
**13C3-PFHxS**

170925G2\_2 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
3.051e+005



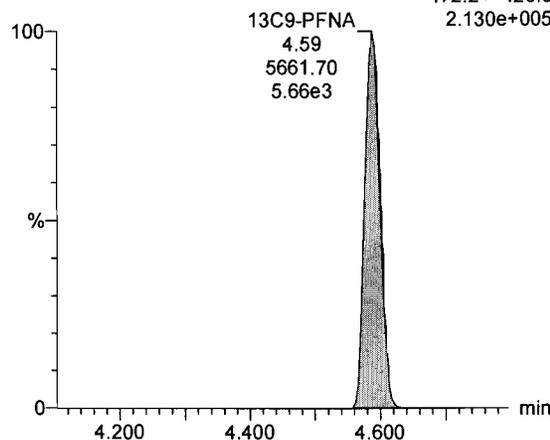
**13C8-PFOA**

170925G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.358e+005



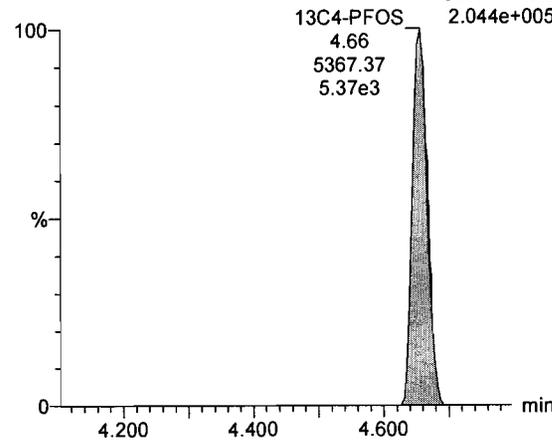
**13C9-PFNA**

170925G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.130e+005



**13C4-PFOS**

170925G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.044e+005



Dataset: U:\G1.PRO\Results\2017\New folder (2)\170925G2-20.qld

Last Altered: Tuesday, September 26, 2017 08:40:30 Pacific Daylight Time  
Printed: Tuesday, September 26, 2017 08:40:59 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_20, Date: 25-Sep-2017, Time: 21:31:39, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

AC  
9/26/17  
✓ JFA  
9/26/2017

#	Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.000	1.68	13496.7	28940.9	5.829	7.0176	70.2
2	2 PFPeA	263.0 > 218.8	1.000	2.63	7563.4	7874.0	12.007	10.1706	101.7
3	3 PFBS	299.0 > 79.7	1.000	2.92	4886.5	4180.9	14.610	8.3602	83.6
4	4 PFHxA	312.9 > 268.9	1.000	3.30	11067.8	6821.6	20.281	11.8012	118.0
5	5 PFHpA	363 > 318.9	1.000	3.82	14544.8	7774.2	23.386	10.7444	107.4
6	6 PFHxS	398.9 > 79.6	1.000	3.94	5383.1	4492.4	14.978	8.5325	85.3
7	7 PFOA	413.0 > 368.7	1.000	4.22	12289.8	18492.3	8.307	8.5744	85.7
8	8 PFNA	463.0 > 418.8	1.000	4.57	11293.8	5816.2	24.272	11.1146	111.1
9	9 PFOS	499.0 > 79.9	1.000	4.64	1689.9	5271.2	4.007	8.5386	85.4
10	10 PFDA	512.7 > 219.0	1.000	4.88	1210.5	7573.9	1.998	11.2248	112.2
11	11 13C3-PFBA	215.9 > 171.8	1.000	1.68	28940.9	18496.6	19.558	15.8709	127.0
12	12 13C3-PFBS	302.0 > 98.8	1.000	2.92	4180.9	17868.6	2.925	7.4794	59.8
13	13 13C3-PFPeA	266.0 > 221.8	1.000	2.63	7874.0	17868.6	5.508	13.3281	106.6
14	14 13C2-PFHxA	315.0 > 269.8	1.000	3.30	6821.6	17868.6	4.772	11.6692	93.4
15	15 13C4-PFHpA	367.2 > 321.8	1.000	3.81	7774.2	17868.6	5.438	9.9406	79.5
16	16 18O2-PFHxS	403 > 102.6	1.000	3.94	4492.4	8899.3	6.310	12.7396	101.9
17	17 13C2-PFOA	414.9 > 369.7	1.000	4.22	18492.3	3778.2	61.182	18.4302	147.4
18	18 13C5-PFNA	468.2 > 422.9	1.000	4.57	5816.2	6137.7	11.845	11.2599	90.1
19	19 13C2-PFDA	514.8 > 469.7	1.000	4.87	7573.9	4305.8	21.988	9.6326	77.1
20	20 13C8-PFOS	507.0 > 79.9	1.000	4.64	5271.2	5515.1	11.947	12.2057	97.6
21	21 13C4-PFBA	216.9 > 171.8	1.000	1.68	18496.6	18496.6	12.500	12.5000	100.0
22	22 13C5-PFHxA	318 > 272.9	1.000	3.30	17868.6	17868.6	12.500	12.5000	100.0
23	23 13C3-PFHxS	401.9 > 79.9	1.000	3.94	8899.3	8899.3	12.500	12.5000	100.0
24	24 13C8-PFOA	421.3 > 376	1.000	4.22	3778.2	3778.2	12.500	12.5000	100.0
25	25 13C9-PFNA	472.2 > 426.9	1.000	4.57	6137.7	6137.7	12.500	12.5000	100.0
26	26 13C4-PFOS	503.0 > 79.9	1.000	4.64	5515.1	5515.1	12.500	12.5000	100.0
27	27 13C6-PFDA	519.10 > 473.70	1.000	4.87	4305.8	4305.8	12.500	12.5000	100.0

70-130  
↓  
50-150  
↓

Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 08:48:17 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:49:07 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170925G2_1	IPA	25-Sep-17	17:33:28
2	170925G2_2	ST170925G2-2 PFC CS3 17I2002	25-Sep-17	17:45:42
3	170925G2_3	IPA	25-Sep-17	17:58:16
4	170925G2_4	B7I0112-BS1 OPR 0.125	25-Sep-17	18:10:50
5	170925G2_5	IPA	25-Sep-17	18:23:22
6	170925G2_6	B7I0112-BLK1 Method Blank 0.125	25-Sep-17	18:35:57
7	170925G2_7	1701277-01 OW2E-MW09R-0917 0.11883	25-Sep-17	18:48:27
8	170925G2_8	1701277-02 OW2C-MW05-0917 0.11734	25-Sep-17	19:01:00
9	170925G2_9	1701277-03 OW2C-MW05P-0917 0.10421	25-Sep-17	19:13:35
10	170925G2_10	1701277-04 OW2C-MW25-0917 0.10208	25-Sep-17	19:26:07
11	170925G2_11	1701277-05 OW2C-MW19-0917 0.10774	25-Sep-17	19:38:40
12	170925G2_12	1701277-06 OW2C-MW24-0917 0.10943	25-Sep-17	19:51:15
13	170925G2_13	B7I0112-MS1 Matrix Spike 0.1171	25-Sep-17	20:03:44
14	170925G2_14	B7I0112-MSD1 Matrix Spike Dup 0.11523	25-Sep-17	20:16:17
15	170925G2_15	1701277-07 OW2C-EB-0917 0.11692	25-Sep-17	20:28:53
16	170925G2_16	1701277-08 OW2C-FB-0917 0.11728	25-Sep-17	20:41:28
17	170925G2_17	1701285-01 BADIN-FB-01-091917 0.10823	25-Sep-17	20:54:01
18	170925G2_18	1701290-01 STWRT-FB-KED-092117 0.1134	25-Sep-17	21:06:35
19	170925G2_19	IPA	25-Sep-17	21:19:07
20	170925G2_20	ST170925G2-2 PFC CS3 17I2002	25-Sep-17	21:31:39
21	170925G2_21	IPA	25-Sep-17	21:44:10
22	170925G2_22	B7I0129-BS1 OPR 0.125	25-Sep-17	21:56:46
23	170925G2_23	IPA	25-Sep-17	22:09:19
24	170925G2_24	B7I0129-BLK1 Method Blank 0.125	25-Sep-17	22:21:51
25	170925G2_25	1701265-83 DW-R-346BHR 0.125	25-Sep-17	22:34:21
26	170925G2_26	1701265-84 DW-R-340BHR 0.125	25-Sep-17	22:46:53
27	170925G2_27	1701265-85 L-L-1 0.125	25-Sep-17	22:59:27
28	170925G2_28	B7I0129-MS1 Matrix Spike 0.125	25-Sep-17	23:12:00
29	170925G2_29	B7I0129-MSD1 Matrix Spike Dup 0.125	25-Sep-17	23:24:33
30	170925G2_30	1701265-86 L-L-1-DUP 0.125	25-Sep-17	23:37:06
31	170925G2_31	1701265-87 GW-MW-11 0.125	25-Sep-17	23:49:40

Dataset: Untitled

Last Altered: Tuesday, September 26, 2017 08:48:17 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:49:07 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170925G2_32	1701265-88 DW-R-15 0.125	26-Sep-17	00:02:13
33	170925G2_33	1701284-01 OW2C-IDWAQ-091917 0.125	26-Sep-17	00:14:42
34	170925G2_34	1701292-01 Lagoon A 0.125	26-Sep-17	00:27:18
35	170925G2_35	IPA	26-Sep-17	00:39:48
36	170925G2_36	ST170925G2-3 PFC CS3 17I2002	26-Sep-17	00:52:24
37	170925G2_37	IPA	26-Sep-17	01:04:53
38	170925G2_38	1701173-05RE1@40X B-G-GW 0.10784	26-Sep-17	01:17:31
39	170925G2_39	1701173-06RE1@40X B-F-GW 0.10571	26-Sep-17	01:30:00
40	170925G2_40	1701173-11RE1@20X MH-1 0.11693	26-Sep-17	01:42:33
41	170925G2_41	1701173-13RE1@10X OF1N-NW 0.11452	26-Sep-17	01:55:07
42	170925G2_42	1701173-14RE1@60X Ditch_1 0.11027	26-Sep-17	02:07:41
43	170925G2_43	IPA	26-Sep-17	02:20:10
44	170925G2_44	ST170925G2-4 PFC CS3 17I2002	26-Sep-17	02:32:48
45	170925G2_45	IPA	26-Sep-17	02:45:17

Dataset: U:\G1.PRO\Results\2017\New folder (2)\170925G2-20.qld

Last Altered: Tuesday, September 26, 2017 08:40:30 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:40:59 Pacific Daylight Time

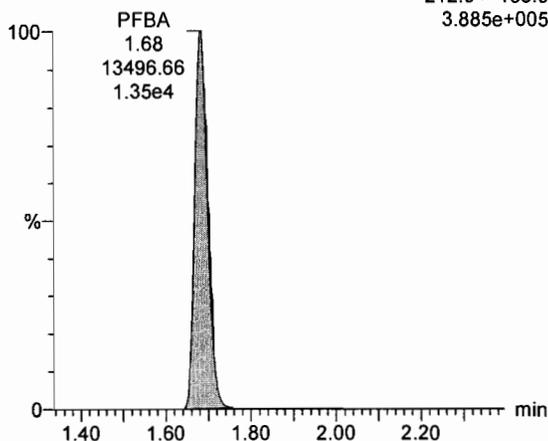
Method: U:\G1.pro\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170925G2\_20, Date: 25-Sep-2017, Time: 21:31:39, ID: ST170925G2-2 PFC CS3 1712002, Description: PFC CS3 1712002

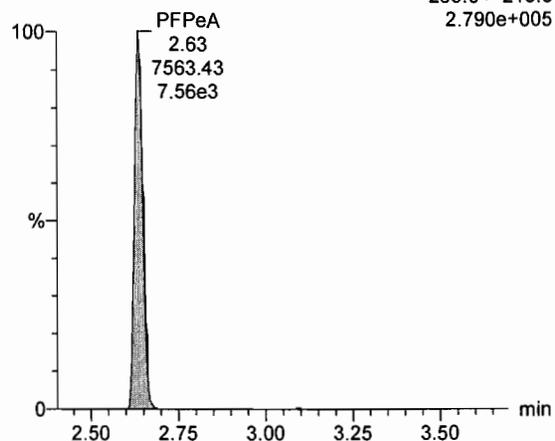
**PFBA**

170925G2\_20 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
3.885e+005



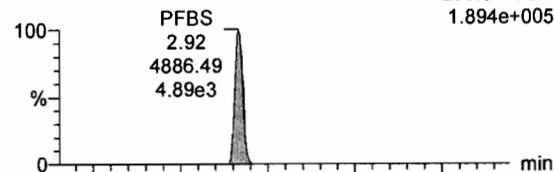
**PFPeA**

170925G2\_20 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
2.790e+005

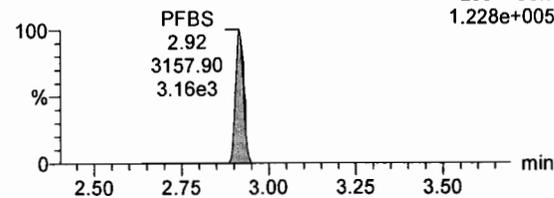


**PFBS**

170925G2\_20 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.894e+005

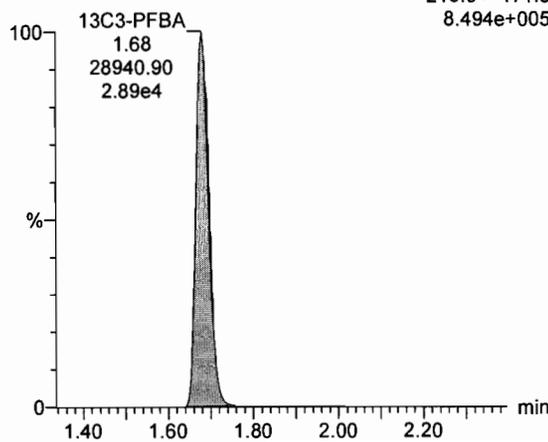


170925G2\_20 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
1.228e+005



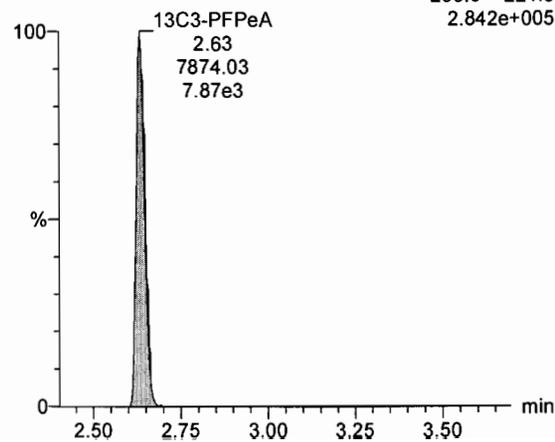
**13C3-PFBA**

170925G2\_20 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
8.494e+005



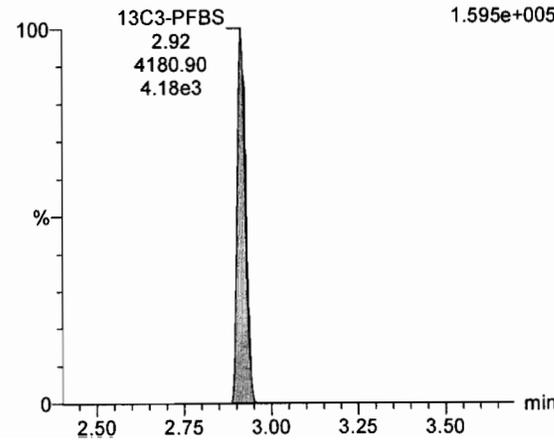
**13C3-PFPeA**

170925G2\_20 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
2.842e+005



**13C3-PFBS**

170925G2\_20 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
1.595e+005

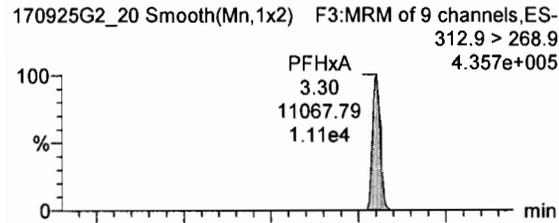


Dataset: U:\G1.PRO\Results\2017\New folder (2)\170925G2-20.qld

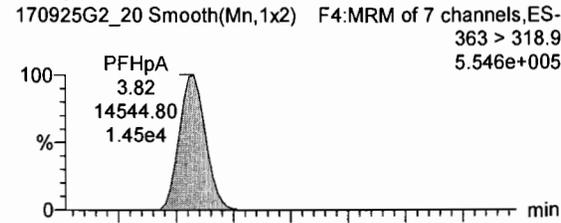
Last Altered: Tuesday, September 26, 2017 08:40:30 Pacific Daylight Time  
Printed: Tuesday, September 26, 2017 08:40:59 Pacific Daylight Time

Name: 170925G2\_20, Date: 25-Sep-2017, Time: 21:31:39, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

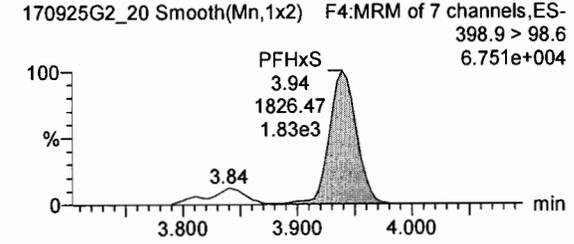
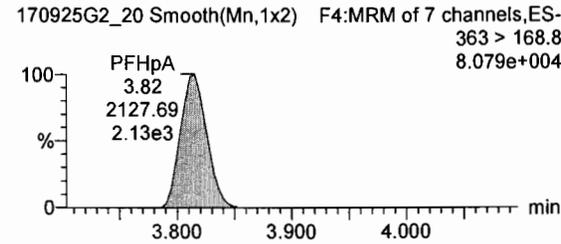
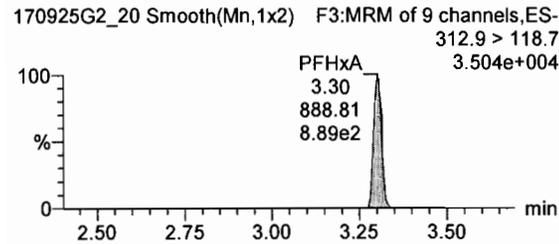
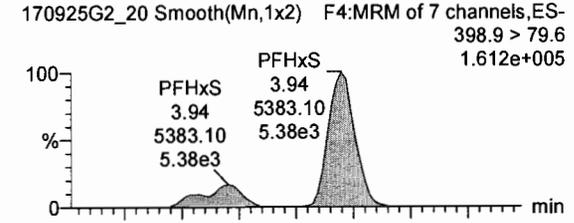
**PFHxA**



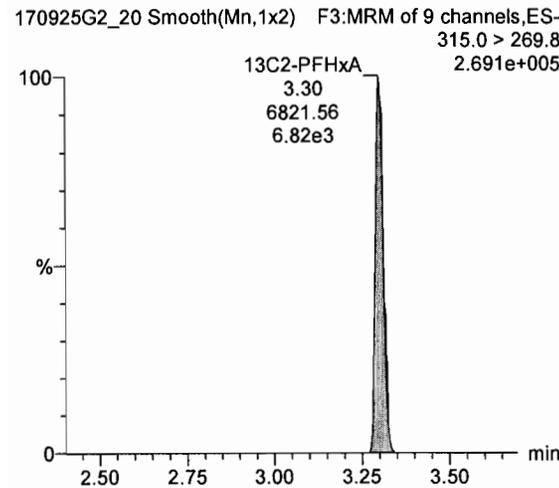
**PFHpA**



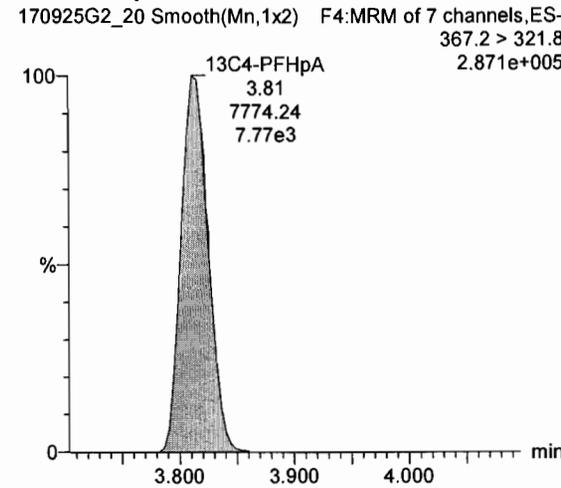
**Total PFHxS**



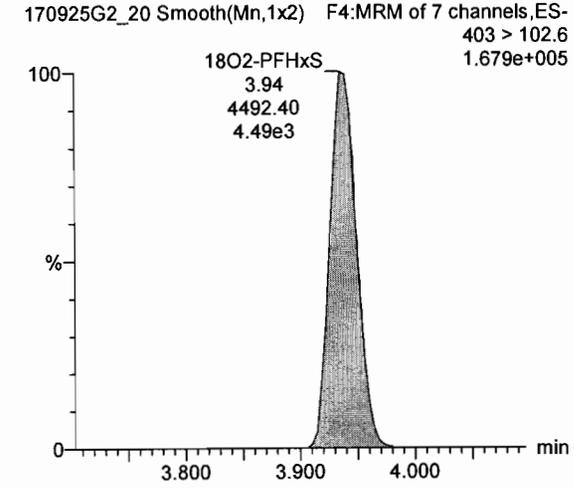
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\G1.PRO\Results\2017\New folder (2)\170925G2-20.qld

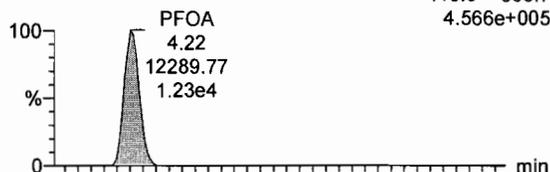
Last Altered: Tuesday, September 26, 2017 08:40:30 Pacific Daylight Time

Printed: Tuesday, September 26, 2017 08:40:59 Pacific Daylight Time

Name: 170925G2\_20, Date: 25-Sep-2017, Time: 21:31:39, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

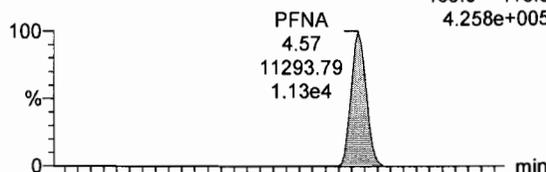
**Total PFOA**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
4.566e+005



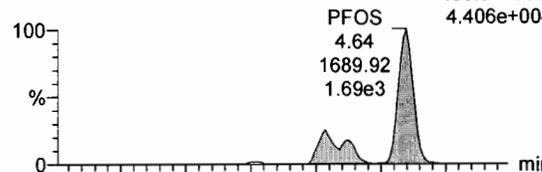
**PFNA**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
4.258e+005

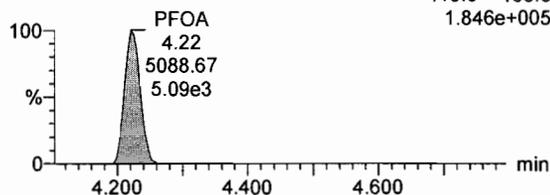


**Total PFOS**

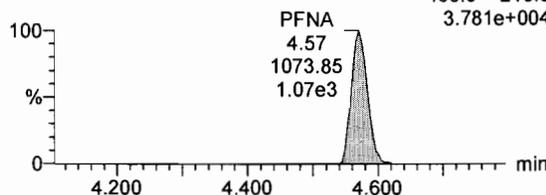
170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
4.406e+004



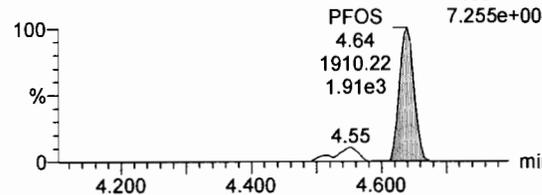
170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
1.846e+005



170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
3.781e+004

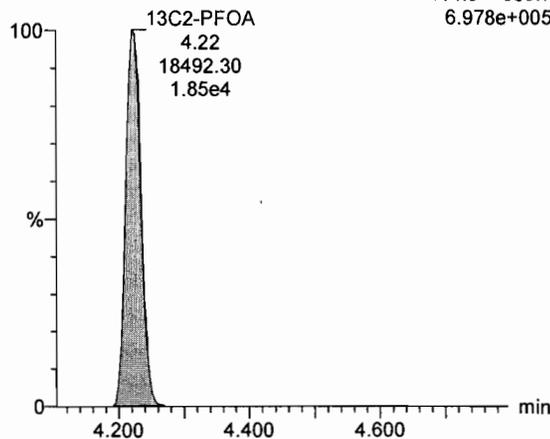


170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
7.255e+004



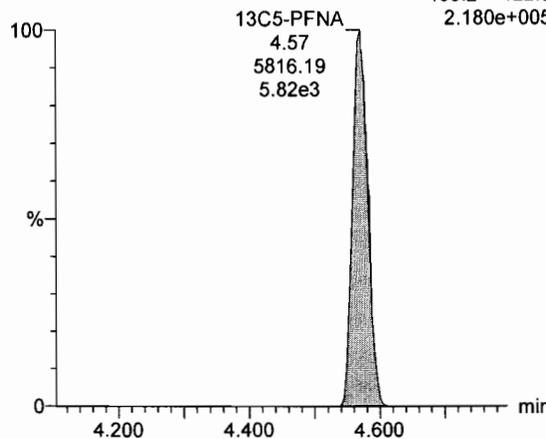
**13C2-PFOA**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
6.978e+005



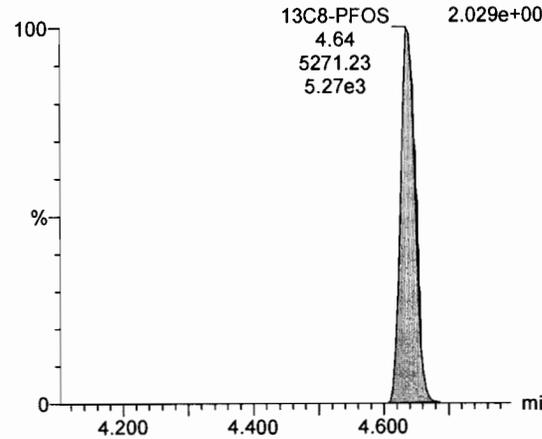
**13C5-PFNA**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.180e+005



**13C8-PFOS**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.029e+005





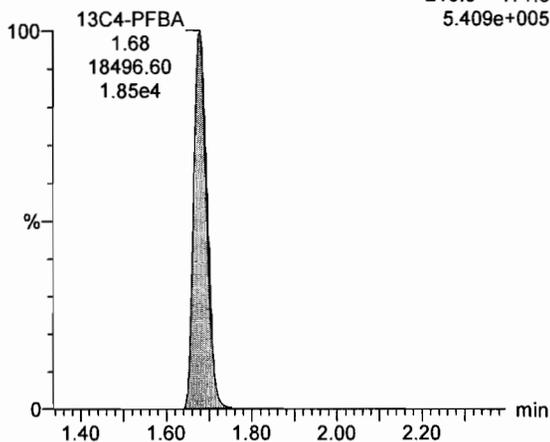
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Last Altered: Tuesday, September 26, 2017 08:40:30 Pacific Daylight Time  
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Name: 170925G2\_20, Date: 25-Sep-2017, Time: 21:31:39, ID: ST170925G2-2 PFC CS3 17I2002, Description: PFC CS3 17I2002

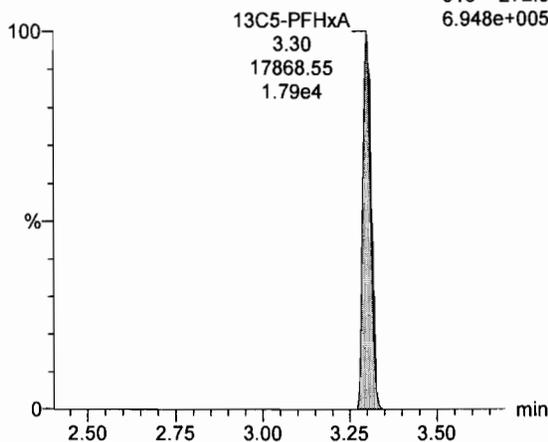
**13C4-PFBA**

170925G2\_20 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
5.409e+005



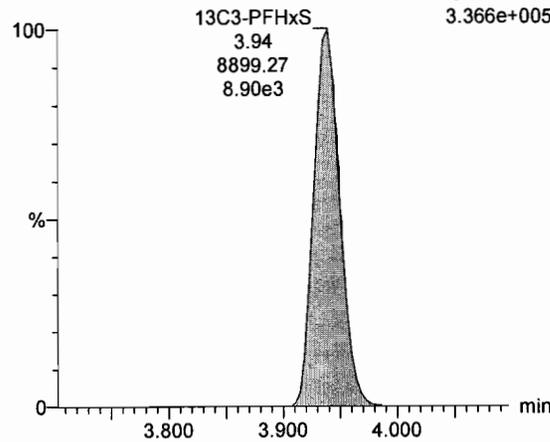
**13C5-PFHxA**

170925G2\_20 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.948e+005



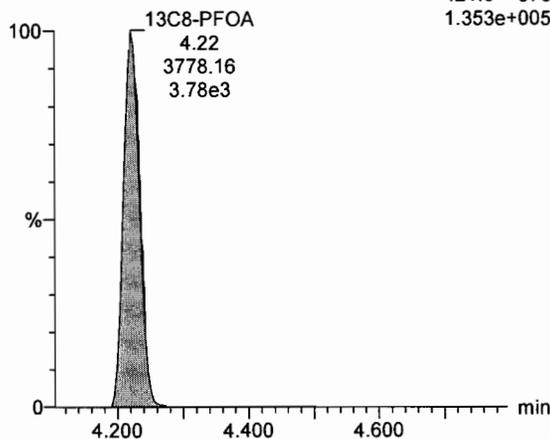
**13C3-PFHxS**

170925G2\_20 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
3.366e+005



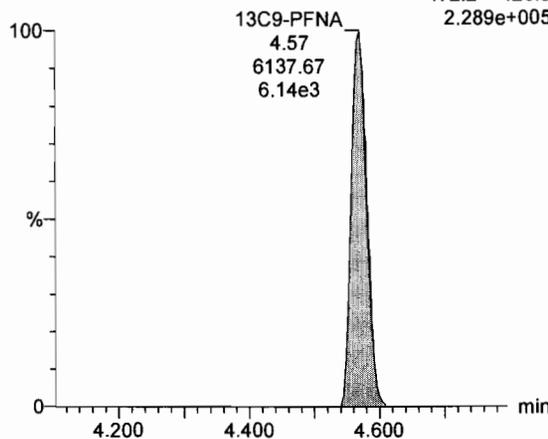
**13C8-PFOA**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.353e+005



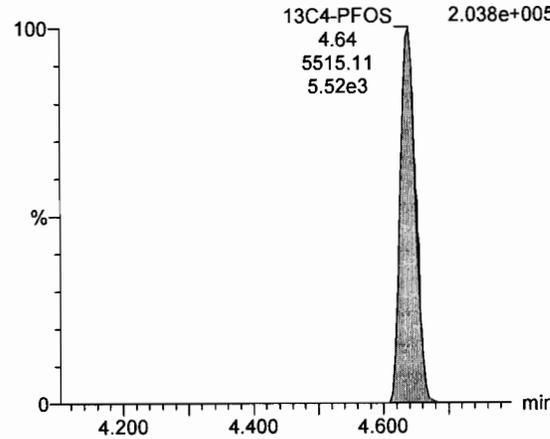
**13C9-PFNA**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.289e+005



**13C4-PFOS**

170925G2\_20 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.038e+005



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Method: U:\G1.PRO\MethDB\PFAS\_RS AREAS\_0809.mdb 19 Sep 2017 08:51:05

Calibration: 02 Oct 2017 09:48:25

Name: 170928G2\_2, Date: 28-Sep-2017, Time: 17:29:07, ID: ST170928G2-1 PFC CS3 1712819, Description: PFC CS3 1712819

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	5577.146	5577.146	NO	12.5	100.0
2	2 13C4-PFBA	216.9 > 171.8	1.68	20810.125	20810.125	NO	12.5	100.0
3	3 13C5-PFHxA	318.0 > 272.9	3.31	18829.551	18829.551	NO	12.5	100.0
4	4 13C3-PFHxS	401.9 > 79.9	3.94	10575.617	10575.617	NO	12.5	100.0
5	5 13C8-PFOA	421.3 > 376	4.23	5945.135	5945.135	NO	12.5	100.0
6	6 13C4-PFOS	503.0 > 79.9	4.64	7424.104	7424.104	NO	12.5	100.0
7	7 13C9-PFNA	472.2 > 426.9	4.57	7566.551	7566.551	NO	12.5	100.0
8	8 13C6-PFDA	519.1 > 473.7	4.88	5775.097	5775.097	NO	12.5	100.0

Name: 170928G2\_3, Date: 28-Sep-2017, Time: 17:41:40, 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: 170928G2\_4, Date: 28-Sep-2017, Time: 17:54:16, ID: 1701277-01 OW2E-MW09R-0917 0.11883, Description: OW2E-MW09R-0917

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	5169.261	5169.261	NO	97.5	92.7
2	2 13C4-PFBA	216.9 > 171.8	1.59	13729.158	13729.158	NO	69.4	66.0
3	3 13C5-PFHxA	318.0 > 272.9	3.31	16400.068	16400.068	NO	91.6	87.1
4	4 13C3-PFHxS	401.9 > 79.9	3.95	9065.977	9065.977	NO	90.2	85.7
5	5 13C8-PFOA	421.3 > 376	4.23	5210.857	5210.857	NO	92.2	87.6
6	6 13C4-PFOS	503.0 > 79.9	4.64	5952.761	5952.761	NO	84.3	80.2
7	7 13C9-PFNA	472.2 > 426.9	4.58	5939.638	5939.638	NO	82.6	78.5
8	8 13C6-PFDA	519.1 > 473.7	4.88	4526.893	4526.893	NO	82.5	78.4

Name: 170928G2\_5, Date: 28-Sep-2017, Time: 18:06:53, ID: 1701277-02 OW2C-MW05-0917 0.11734, Description: OW2C-MW05-0917

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.91	5866.168	5866.168	NO	112.0	105.2
2	2 13C4-PFBA	216.9 > 171.8	1.57	13407.206	13407.206	NO	68.6	64.4
3	3 13C5-PFHxA	318.0 > 272.9	3.30	17274.184	17274.184	NO	97.7	91.7
4	4 13C3-PFHxS	401.9 > 79.9	3.94	12084.951	12084.951	NO	121.7	114.3
5	5 13C8-PFOA	421.3 > 376	4.23	6169.572	6169.572	NO	110.5	103.8
6	6 13C4-PFOS	503.0 > 79.9	4.64	7840.563	7840.563	NO	112.5	105.6
7	7 13C9-PFNA	472.2 > 426.9	4.57	7189.474	7189.474	NO	101.2	95.0
8	8 13C6-PFDA	519.1 > 473.7	4.88	5850.907	5850.907	NO	107.9	101.3

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**Name: 170928G2\_6, Date: 28-Sep-2017, Time: 18:19:19, ID: 1701277-03 OW2C-MW05P-0917 0.10421, Description: OW2C-MW05P-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	4975.402	4975.402	NO	107.0	89.2
2	2 13C4-PFBA	216.9 > 171.8	1.60	13316.083	13316.083	NO	76.8	64.0
3	3 13C5-PFHxA	318.0 > 272.9	3.31	15508.041	15508.041	NO	98.8	82.4
4	4 13C3-PFHxS	401.9 > 79.9	3.95	10678.063	10678.063	NO	121.1	101.0
5	5 13C8-PFOA	421.3 > 376	4.23	4947.428	4947.428	NO	99.8	83.2
6	6 13C4-PFOS	503.0 > 79.9	4.64	4931.225	4931.225	NO	79.7	66.4
7	7 13C9-PFNA	472.2 > 426.9	4.58	5478.204	5478.204	NO	86.8	72.4
8	8 13C6-PFDA	519.1 > 473.7	4.88	3599.014	3599.014	NO	74.8	62.3

**Name: 170928G2\_7, Date: 28-Sep-2017, Time: 18:31:52, ID: 1701277-04 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	4954.747	4954.747	NO	108.8	88.8
2	2 13C4-PFBA	216.9 > 171.8	1.60	14063.919	14063.919	NO	82.8	67.6
3	3 13C5-PFHxA	318.0 > 272.9	3.31	11176.578	11176.578	NO	72.7	59.4
4	4 13C3-PFHxS	401.9 > 79.9	3.94	7280.492	7280.492	NO	84.3	68.8
5	5 13C8-PFOA	421.3 > 376	4.23	4788.859	4788.859	NO	98.6	80.6
6	6 13C4-PFOS	503.0 > 79.9	4.64	2215.486	2215.486	YES	36.5	29.8
7	7 13C9-PFNA	472.2 > 426.9	4.58	6099.861	6099.861	NO	98.7	80.6
8	8 13C6-PFDA	519.1 > 473.7	4.88	5361.874	5361.874	NO	113.7	92.8

**Name: 170928G2\_8, Date: 28-Sep-2017, Time: 18:44:26, 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: 170928G2\_9, Date: 28-Sep-2017, Time: 18:56:59, ID: 1701277-05 OW2C-MW19-0917 0.10774, Description: OW2C-MW19-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	5803.970	5803.970	NO	120.7	104.1
2	2 13C4-PFBA	216.9 > 171.8	1.59	16190.328	16190.328	NO	90.3	77.8
3	3 13C5-PFHxA	318.0 > 272.9	3.31	18416.162	18416.162	NO	113.5	97.8
4	4 13C3-PFHxS	401.9 > 79.9	3.95	11679.838	11679.838	NO	128.1	110.4
5	5 13C8-PFOA	421.3 > 376	4.23	6321.101	6321.101	NO	123.4	106.3
6	6 13C4-PFOS	503.0 > 79.9	4.64	8756.340	8756.340	NO	136.8	117.9
7	7 13C9-PFNA	472.2 > 426.9	4.58	8116.172	8116.172	NO	124.4	107.3
8	8 13C6-PFDA	519.1 > 473.7	4.88	9324.941	9324.941	YES	187.3	161.5

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**Name: 170928G2\_10, Date: 28-Sep-2017, Time: 19:09:33, ID: 1701277-06 OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	5485.330	5485.330	NO	112.3	98.4
2	2 13C4-PFBA	216.9 > 171.8	1.59	14437.707	14437.707	NO	79.2	69.4
3	3 13C5-PFHxA	318.0 > 272.9	3.31	16649.531	16649.531	NO	101.0	88.4
4	4 13C3-PFHxS	401.9 > 79.9	3.95	11578.065	11578.065	NO	125.1	109.5
5	5 13C8-PFOA	421.3 > 376	4.23	4583.514	4583.514	NO	88.1	77.1
6	6 13C4-PFOS	503.0 > 79.9	4.64	6630.837	6630.837	NO	102.0	89.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	7487.772	7487.772	NO	113.0	99.0
8	8 13C6-PFDA	519.1 > 473.7	4.88	5077.616	5077.616	NO	100.4	87.9

**Name: 170928G2\_11, Date: 28-Sep-2017, Time: 19:22:05, 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: 170928G2\_12, Date: 28-Sep-2017, Time: 19:34:37, ID: B7I0112-MS1 Matrix Spike 0.1171, Description: Matrix Spike**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	6068.089	6068.089	NO	116.1	108.8
2	2 13C4-PFBA	216.9 > 171.8	1.58	14615.334	14615.334	NO	75.0	70.2
3	3 13C5-PFHxA	318.0 > 272.9	3.31	18775.043	18775.043	NO	106.4	99.7
4	4 13C3-PFHxS	401.9 > 79.9	3.95	12862.274	12862.274	NO	129.8	121.6
5	5 13C8-PFOA	421.3 > 376	4.23	5235.302	5235.302	NO	94.0	88.1
6	6 13C4-PFOS	503.0 > 79.9	4.65	10775.839	10775.839	NO	154.9	145.1
7	7 13C9-PFNA	472.2 > 426.9	4.58	9370.262	9370.262	NO	132.2	123.8
8	8 13C6-PFDA	519.1 > 473.7	4.88	8034.800	8034.800	NO	148.5	139.1

**Name: 170928G2\_13, Date: 28-Sep-2017, Time: 19:47:12, ID: B7I0112-MSD1 Matrix Spike Dup 0.11523, Description: Matrix Spike Dup**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.92	5370.929	5370.929	NO	104.5	96.3
2	2 13C4-PFBA	216.9 > 171.8	1.56	13259.938	13259.938	NO	69.1	63.7
3	3 13C5-PFHxA	318.0 > 272.9	3.31	18147.377	18147.377	NO	104.5	96.4
4	4 13C3-PFHxS	401.9 > 79.9	3.95	12622.691	12622.691	NO	129.5	119.4
5	5 13C8-PFOA	421.3 > 376	4.23	4729.134	4729.134	NO	86.3	79.5
6	6 13C4-PFOS	503.0 > 79.9	4.65	10467.678	10467.678	NO	153.0	141.0
7	7 13C9-PFNA	472.2 > 426.9	4.58	8604.908	8604.908	NO	123.4	113.7
8	8 13C6-PFDA	519.1 > 473.7	4.88	8989.076	8989.076	YES	168.8	155.7

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**Name: 170928G2\_14, Date: 28-Sep-2017, Time: 19:59:40, 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: 170928G2\_15, Date: 28-Sep-2017, Time: 20:12:16, ID: 1701277-07 OW2C-EB-0917 0.11692, Description: OW2C-EB-0917**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	5810.635	5810.635	NO	111.4	104.2
2	2 13C4-PFBA	216.9 > 171.8	1.61	16310.413	16310.413	NO	83.8	78.4
3	3 13C5-PFHxA	318.0 > 272.9	3.32	17312.180	17312.180	NO	98.3	91.9
4	4 13C3-PFHxS	401.9 > 79.9	3.95	13186.998	13186.998	NO	133.3	124.7
5	5 13C8-PFOA	421.3 > 376	4.23	5726.931	5726.931	NO	103.0	96.3
6	6 13C4-PFOS	503.0 > 79.9	4.65	10196.126	10196.126	NO	146.8	137.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	8756.704	8756.704	NO	123.7	115.7
8	8 13C6-PFDA	519.1 > 473.7	4.88	9394.640	9394.640	YES	173.9	162.7

**Name: 170928G2\_16, Date: 28-Sep-2017, Time: 20:24:46, ID: 1701277-08 OW2C-FB-0917 0.11728, Description: OW2C-FB-0917**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	5437.042	5437.042	NO	103.9	97.5
2	2 13C4-PFBA	216.9 > 171.8	1.64	17320.797	17320.797	NO	88.7	83.2
3	3 13C5-PFHxA	318.0 > 272.9	3.31	16816.166	16816.166	NO	95.2	89.3
4	4 13C3-PFHxS	401.9 > 79.9	3.95	11177.816	11177.816	NO	112.7	105.7
5	5 13C8-PFOA	421.3 > 376	4.23	5370.753	5370.753	NO	96.3	90.3
6	6 13C4-PFOS	503.0 > 79.9	4.65	8705.733	8705.733	NO	125.0	117.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	7758.896	7758.896	NO	109.3	102.5
8	8 13C6-PFDA	519.1 > 473.7	4.88	8507.320	8507.320	NO	157.0	147.3

**Name: 170928G2\_17, Date: 28-Sep-2017, Time: 20:37:28, 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		

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**Name: 170928G2\_18, Date: 28-Sep-2017, Time: 20:50:04, ID: 1701277-06@10X OW2C-MW24-0917 0.10943, Description: OW2C-MW24-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	446.071	446.071	YES	9.1	8.0
2	2 13C4-PFBA	216.9 > 171.8	1.69	1918.954	1918.954	YES	10.5	9.2
3	3 13C5-PFHxA	318.0 > 272.9	3.32	1654.176	1654.176	YES	10.0	8.8
4	4 13C3-PFHxS	401.9 > 79.9	3.95	700.944	700.944	YES	7.6	6.6
5	5 13C8-PFOA	421.3 > 376	4.24	474.692	474.692	YES	9.1	8.0
6	6 13C4-PFOS	503.0 > 79.9	4.65	149.921	149.921	YES	2.3	2.0
7	7 13C9-PFNA	472.2 > 426.9	4.58	384.124	384.124	YES	5.8	5.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	73.780	73.780	YES	1.5	1.3

**Name: 170928G2\_19, Date: 28-Sep-2017, Time: 21:02:36, ID: B710112-MS1@10X Matrix Spike 0.1171, Description: Matrix Spike**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	654.910	654.910	YES	12.5	11.7
2	2 13C4-PFBA	216.9 > 171.8	1.68	2428.379	2428.379	YES	12.5	11.7
3	3 13C5-PFHxA	318.0 > 272.9	3.31	2488.412	2488.412	YES	14.1	13.2
4	4 13C3-PFHxS	401.9 > 79.9	3.96	1251.657	1251.657	YES	12.6	11.8
5	5 13C8-PFOA	421.3 > 376	4.23	522.002	522.002	YES	9.4	8.8
6	6 13C4-PFOS	503.0 > 79.9	4.65	362.884	362.884	YES	5.2	4.9
7	7 13C9-PFNA	472.2 > 426.9	4.58	554.283	554.283	YES	7.8	7.3
8	8 13C6-PFDA	519.1 > 473.7	4.88	209.511	209.511	YES	3.9	3.6

**Name: 170928G2\_20, Date: 28-Sep-2017, Time: 21:15:10, ID: B710112-MSD1@10X Matrix Spike Dup 0.11523, Description: Matrix Spike Dup**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	488.727	488.727	YES	9.5	8.8
2	2 13C4-PFBA	216.9 > 171.8	1.69	2188.002	2188.002	YES	11.4	10.5
3	3 13C5-PFHxA	318.0 > 272.9	3.32	2184.423	2184.423	YES	12.6	11.6
4	4 13C3-PFHxS	401.9 > 79.9	3.95	1197.594	1197.594	YES	12.3	11.3
5	5 13C8-PFOA	421.3 > 376	4.23	449.851	449.851	YES	8.2	7.6
6	6 13C4-PFOS	503.0 > 79.9	4.65	245.701	245.701	YES	3.6	3.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	481.571	481.571	YES	6.9	6.4
8	8 13C6-PFDA	519.1 > 473.7	4.88	147.613	147.613	YES	2.8	2.6

**Name: 170928G2\_21, Date: 28-Sep-2017, Time: 21:27:44, ID: 1701277-04@10X OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	472.526	472.526	YES	10.4	8.5
2	2 13C4-PFBA	216.9 > 171.8	1.69	1885.656	1885.656	YES	11.1	9.1
3	3 13C5-PFHxA	318.0 > 272.9	3.32	1801.646	1801.646	YES	11.7	9.6
4	4 13C3-PFHxS	401.9 > 79.9	3.95	842.278	842.278	YES	9.8	8.0
5	5 13C8-PFOA	421.3 > 376	4.24	435.738	435.738	YES	9.0	7.3
6	6 13C4-PFOS	503.0 > 79.9	4.65	93.388	93.388	YES	1.5	1.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	390.752	390.752	YES	6.3	5.2
8	8 13C6-PFDA	519.1 > 473.7	4.89	116.005	116.005	YES	2.5	2.0

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**Name: 170928G2\_22, Date: 28-Sep-2017, Time: 21:40:17, 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: 170928G2\_23, Date: 28-Sep-2017, Time: 21:52:49, ID: ST170928G2-2 PFC CS3 1712819, Description: PFC CS3 1712819**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	5806.455	5806.455	NO	13.0	104.1
2	2 13C4-PFBA	216.9 > 171.8	1.69	22845.137	22845.137	NO	13.7	109.8
3	3 13C5-PFHxA	318.0 > 272.9	3.32	22833.180	22833.180	NO	15.2	121.3
4	4 13C3-PFHxS	401.9 > 79.9	3.95	11507.772	11507.772	NO	13.6	108.8
5	5 13C8-PFOA	421.3 > 376	4.24	5910.544	5910.544	NO	12.4	99.4
6	6 13C4-PFOS	503.0 > 79.9	4.65	9679.986	9679.986	NO	16.3	130.4
7	7 13C9-PFNA	472.2 > 426.9	4.58	8900.862	8900.862	NO	14.7	117.6
8	8 13C6-PFDA	519.1 > 473.7	4.88	8140.642	8140.642	NO	17.6	141.0

**Name: 170928G2\_24, Date: 28-Sep-2017, Time: 22:05:19, 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: 170928G2\_25, Date: 28-Sep-2017, Time: 22:17:55, ID: B7I0147-BS1 OPR 0.125, Description: OPR**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	8534.577	8534.577	YES	153.0	153.0
2	2 13C4-PFBA	216.9 > 171.8	1.62	28569.818	28569.818	NO	137.3	137.3
3	3 13C5-PFHxA	318.0 > 272.9	3.32	31441.492	31441.492	YES	167.0	167.0
4	4 13C3-PFHxS	401.9 > 79.9	3.96	16773.951	16773.951	YES	158.6	158.6
5	5 13C8-PFOA	421.3 > 376	4.24	8326.826	8326.826	NO	140.1	140.1
6	6 13C4-PFOS	503.0 > 79.9	4.65	9023.733	9023.733	NO	121.5	121.5
7	7 13C9-PFNA	472.2 > 426.9	4.58	11182.861	11182.861	NO	147.8	147.8
8	8 13C6-PFDA	519.1 > 473.7	4.88	6358.442	6358.442	NO	110.1	110.1

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**Name: 170928G2\_26, Date: 28-Sep-2017, Time: 22:30:27, ID: B710141-BS1 OPR 1, Description: OPR**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3838.637	3838.637	NO	8.6	68.8
2	2 13C4-PFBA	216.9 > 171.8	1.61	11724.247	11724.247	NO	7.0	56.3
3	3 13C5-PFHxA	318.0 > 272.9	3.32	13229.548	13229.548	NO	8.8	70.3
4	4 13C3-PFHxS	401.9 > 79.9	3.95	7903.703	7903.703	NO	9.3	74.7
5	5 13C8-PFOA	421.3 > 376	4.24	3481.450	3481.450	NO	7.3	58.6
6	6 13C4-PFOS	503.0 > 79.9	4.65	3838.752	3838.752	NO	6.5	51.7
7	7 13C9-PFNA	472.2 > 426.9	4.58	4513.297	4513.297	NO	7.5	59.6
8	8 13C6-PFDA	519.1 > 473.7	4.88	2755.842	2755.842	YES	6.0	47.7

**Name: 170928G2\_27, Date: 28-Sep-2017, Time: 22:43:01, 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: 170928G2\_28, Date: 28-Sep-2017, Time: 22:55:37, ID: B710147-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	2.93	7740.023	7740.023	NO	138.8	138.8
2	2 13C4-PFBA	216.9 > 171.8	1.59	24976.955	24976.955	NO	120.0	120.0
3	3 13C5-PFHxA	318.0 > 272.9	3.32	29494.143	29494.143	YES	156.6	156.6
4	4 13C3-PFHxS	401.9 > 79.9	3.96	17285.471	17285.471	YES	163.4	163.4
5	5 13C8-PFOA	421.3 > 376	4.24	9235.142	9235.142	YES	155.3	155.3
6	6 13C4-PFOS	503.0 > 79.9	4.65	14141.878	14141.878	YES	190.5	190.5
7	7 13C9-PFNA	472.2 > 426.9	4.58	13528.834	13528.834	YES	178.8	178.8
8	8 13C6-PFDA	519.1 > 473.7	4.88	12659.797	12659.797	YES	219.2	219.2

**Name: 170928G2\_29, Date: 28-Sep-2017, Time: 23:08:06, ID: B710141-BLK1 Method Blank 1, Description: Method Blank**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3543.357	3543.357	NO	7.9	63.5
2	2 13C4-PFBA	216.9 > 171.8	1.62	8893.352	8893.352	YES	5.3	42.7
3	3 13C5-PFHxA	318.0 > 272.9	3.32	10409.973	10409.973	NO	6.9	55.3
4	4 13C3-PFHxS	401.9 > 79.9	3.96	7018.644	7018.644	NO	8.3	66.4
5	5 13C8-PFOA	421.3 > 376	4.24	2875.758	2875.758	YES	6.0	48.4
6	6 13C4-PFOS	503.0 > 79.9	4.65	4636.295	4636.295	NO	7.8	62.4
7	7 13C9-PFNA	472.2 > 426.9	4.58	3958.601	3958.601	NO	6.5	52.3
8	8 13C6-PFDA	519.1 > 473.7	4.88	2446.016	2446.016	YES	5.3	42.4



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**Name: 170928G2\_30, Date: 28-Sep-2017, Time: 23:20:40, ID: 1701265-44 S-SED-110 1, Description: S-SED-110**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3708.336	3708.336	NO	8.3	66.5
2	2 13C4-PFBA	216.9 > 171.8	1.58	8973.709	8973.709	YES	5.4	43.1
3	3 13C5-PFHxA	318.0 > 272.9	3.32	11169.483	11169.483	NO	7.4	59.3
4	4 13C3-PFHxS	401.9 > 79.9	3.95	9441.375	9441.375	NO	11.2	89.3
5	5 13C8-PFOA	421.3 > 376	4.24	4116.414	4116.414	NO	8.7	69.2
6	6 13C4-PFOS	503.0 > 79.9	4.65	6077.305	6077.305	NO	10.2	81.9
7	7 13C9-PFNA	472.2 > 426.9	4.58	5229.457	5229.457	NO	8.6	69.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	3435.473	3435.473	NO	7.4	59.5

**Name: 170928G2\_31, Date: 28-Sep-2017, Time: 23:33:13, ID: 1701265-45 S-SED-LR 1, Description: S-SED-LR**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4579.347	4579.347	NO	10.3	82.1
2	2 13C4-PFBA	216.9 > 171.8	1.58	9566.119	9566.119	YES	5.7	46.0
3	3 13C5-PFHxA	318.0 > 272.9	3.31	12029.177	12029.177	NO	8.0	63.9
4	4 13C3-PFHxS	401.9 > 79.9	3.95	8806.289	8806.289	NO	10.4	83.3
5	5 13C8-PFOA	421.3 > 376	4.24	2618.111	2618.111	YES	5.5	44.0
6	6 13C4-PFOS	503.0 > 79.9	4.65	2001.511	2001.511	YES	3.4	27.0
7	7 13C9-PFNA	472.2 > 426.9	4.58	1673.851	1673.851	YES	2.8	22.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	1122.779	1122.779	YES	2.4	19.4

**Name: 170928G2\_32, Date: 28-Sep-2017, Time: 23:45:47, ID: 1701265-46 S-SED-4 1, Description: S-SED-4**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3338.135	3338.135	NO	7.5	59.9
2	2 13C4-PFBA	216.9 > 171.8	1.59	8828.011	8828.011	YES	5.3	42.4
3	3 13C5-PFHxA	318.0 > 272.9	3.31	10853.468	10853.468	NO	7.2	57.6
4	4 13C3-PFHxS	401.9 > 79.9	3.95	7539.463	7539.463	NO	8.9	71.3
5	5 13C8-PFOA	421.3 > 376	4.24	2548.302	2548.302	YES	5.4	42.9
6	6 13C4-PFOS	503.0 > 79.9	4.65	1486.997	1486.997	YES	2.5	20.0
7	7 13C9-PFNA	472.2 > 426.9	4.58	1909.605	1909.605	YES	3.2	25.2
8	8 13C6-PFDA	519.1 > 473.7	4.88	906.603	906.603	YES	2.0	15.7

**Name: 170928G2\_33, Date: 28-Sep-2017, Time: 23:58:20, ID: 1701265-47 S-SED-BB2 1, Description: S-SED-BB2**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3868.255	3868.255	NO	8.7	69.4
2	2 13C4-PFBA	216.9 > 171.8	1.60	9370.991	9370.991	YES	5.6	45.0
3	3 13C5-PFHxA	318.0 > 272.9	3.31	12068.768	12068.768	NO	8.0	64.1
4	4 13C3-PFHxS	401.9 > 79.9	3.95	9467.783	9467.783	NO	11.2	89.5
5	5 13C8-PFOA	421.3 > 376	4.24	3843.524	3843.524	NO	8.1	64.6
6	6 13C4-PFOS	503.0 > 79.9	4.65	5535.393	5535.393	NO	9.3	74.6
7	7 13C9-PFNA	472.2 > 426.9	4.58	5080.358	5080.358	NO	8.4	67.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	3487.951	3487.951	NO	7.5	60.4

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**Name: 170928G2\_34, Date: 29-Sep-2017, Time: 00:10:53, ID: 1701265-48 S-SED-BB1 1, Description: S-SED-BB1**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3747.418	3747.418	NO	8.4	67.2
2	2 13C4-PFBA	216.9 > 171.8	1.60	10222.760	10222.760	YES	6.1	49.1
3	3 13C5-PFHxA	318.0 > 272.9	3.32	12355.396	12355.396	NO	8.2	65.6
4	4 13C3-PFHxS	401.9 > 79.9	3.96	6198.300	6198.300	NO	7.3	58.6
5	5 13C8-PFOA	421.3 > 376	4.24	1743.345	1743.345	YES	3.7	29.3
6	6 13C4-PFOS	503.0 > 79.9	4.65	1642.313	1642.313	YES	2.8	22.1
7	7 13C9-PFNA	472.2 > 426.9	4.58	1383.400	1383.400	YES	2.3	18.3
8	8 13C6-PFDA	519.1 > 473.7	4.88	895.669	895.669	YES	1.9	15.5

**Name: 170928G2\_35, Date: 29-Sep-2017, Time: 00:23:25, ID: 1701283-01 Middletown Sludge 1 1, Description: Middletown Sludge 1**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3753.717	3753.717	NO	8.5	67.3
2	2 13C4-PFBA	216.9 > 171.8	1.61	9297.329	9297.329	YES	5.6	44.7
3	3 13C5-PFHxA	318.0 > 272.9	3.31	10744.131	10744.131	NO	7.2	57.1
4	4 13C3-PFHxS	401.9 > 79.9	3.95	6968.547	6968.547	NO	8.3	65.9
5	5 13C8-PFOA	421.3 > 376	4.23	3078.765	3078.765	NO	6.5	51.8
6	6 13C4-PFOS	503.0 > 79.9	4.63	6724.220	6724.220	NO	11.4	90.6
7	7 13C9-PFNA	472.2 > 426.9	4.57	4292.416	4292.416	NO	7.2	56.7
8	8 13C6-PFDA	519.1 > 473.7	4.87	6375.372	6375.372	NO	13.9	110.4

**Name: 170928G2\_36, Date: 29-Sep-2017, Time: 00:35:56, ID: 1701283-02 Middletown Sludge 2 1, Description: Middletown Sludge 2**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	3880.678	3880.678	NO	8.5	69.6
2	2 13C4-PFBA	216.9 > 171.8	1.63	11803.118	11803.118	NO	7.0	56.7
3	3 13C5-PFHxA	318.0 > 272.9	3.31	12502.235	12502.235	NO	8.1	66.4
4	4 13C3-PFHxS	401.9 > 79.9	3.95	8817.186	8817.186	NO	10.2	83.4
5	5 13C8-PFOA	421.3 > 376	4.23	4290.027	4290.027	NO	8.8	72.2
6	6 13C4-PFOS	503.0 > 79.9	4.63	7394.105	7394.105	NO	12.2	99.6
7	7 13C9-PFNA	472.2 > 426.9	4.57	5680.428	5680.428	NO	9.2	75.1
8	8 13C6-PFDA	519.1 > 473.7	4.87	7313.762	7313.762	NO	15.5	126.6

**Name: 170928G2\_37, Date: 29-Sep-2017, Time: 00:48:33, ID: 1701283-03 Middletown Sludge 3 1, Description: Middletown Sludge 3**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4036.086	4036.086	NO	9.0	72.4
2	2 13C4-PFBA	216.9 > 171.8	1.59	10358.105	10358.105	YES	6.2	49.8
3	3 13C5-PFHxA	318.0 > 272.9	3.32	13747.690	13747.690	NO	9.1	73.0
4	4 13C3-PFHxS	401.9 > 79.9	3.95	8710.229	8710.229	NO	10.2	82.4
5	5 13C8-PFOA	421.3 > 376	4.23	3724.193	3724.193	NO	7.8	62.6
6	6 13C4-PFOS	503.0 > 79.9	4.64	5634.904	5634.904	NO	9.4	75.9
7	7 13C9-PFNA	472.2 > 426.9	4.57	4955.235	4955.235	NO	8.1	65.5
8	8 13C6-PFDA	519.1 > 473.7	4.87	6872.741	6872.741	NO	14.8	119.0

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**Name: 170928G2\_38, Date: 29-Sep-2017, Time: 01:01:02, ID: 1701277-04RE1 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	8556.784	8556.784	NO	19178.2	76.7
2	2 13C4-PFBA	216.9 > 171.8	1.63	27522.941	27522.941	NO	16532.2	66.1
3	3 13C5-PFHxA	318.0 > 272.9	3.33	32063.166	32063.166	NO	21285.1	85.1
4	4 13C3-PFHxS	401.9 > 79.9	3.96	15568.225	15568.225	NO	18401.1	73.6
5	5 13C8-PFOA	421.3 > 376	4.24	7596.898	7596.898	NO	15972.9	63.9
6	6 13C4-PFOS	503.0 > 79.9	4.65	8119.961	8119.961	NO	13671.6	54.7
7	7 13C9-PFNA	472.2 > 426.9	4.58	9369.712	9369.712	NO	15478.8	61.9
8	8 13C6-PFDA	519.1 > 473.7	4.89	5626.240	5626.240	YES	12177.8	48.7

**Name: 170928G2\_39, Date: 29-Sep-2017, Time: 01:13:34, 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: 170928G2\_40, Date: 29-Sep-2017, Time: 01:26:09, ID: ST170928G2-3 PFC CS3 1712819, Description: PFC CS3 1712819**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	5721.350	5721.350	NO	12.8	102.6
2	2 13C4-PFBA	216.9 > 171.8	1.70	21457.195	21457.195	NO	12.9	103.1
3	3 13C5-PFHxA	318.0 > 272.9	3.33	21423.826	21423.826	NO	14.2	113.8
4	4 13C3-PFHxS	401.9 > 79.9	3.96	11895.890	11895.890	NO	14.1	112.5
5	5 13C8-PFOA	421.3 > 376	4.24	5569.064	5569.064	NO	11.7	93.7
6	6 13C4-PFOS	503.0 > 79.9	4.65	8567.694	8567.694	NO	14.4	115.4
7	7 13C9-PFNA	472.2 > 426.9	4.58	7825.859	7825.859	NO	12.9	103.4
8	8 13C6-PFDA	519.1 > 473.7	4.89	6737.809	6737.809	NO	14.6	116.7

**Name: 170928G2\_41, Date: 29-Sep-2017, Time: 01:38:39, 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	1.75	6.670	6.670	YES	0.0	0.0
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: 170928G2\_42, Date: 29-Sep-2017, Time: 01:51:15, ID: B710146-BS1 OPR 0.125, Description: OPR**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4037.342	4037.342	NO	72.4	72.4
2	2 13C4-PFBA	216.9 > 171.8	1.64	13985.279	13985.279	NO	67.2	67.2
3	3 13C5-PFHxA	318.0 > 272.9	3.32	14569.624	14569.624	NO	77.4	77.4
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8021.762	8021.762	NO	75.9	75.9
5	5 13C8-PFOA	421.3 > 376	4.24	3831.473	3831.473	NO	64.4	64.4
6	6 13C4-PFOS	503.0 > 79.9	4.65	4472.304	4472.304	NO	60.2	60.2
7	7 13C9-PFNA	472.2 > 426.9	4.58	5231.664	5231.664	NO	69.1	69.1
8	8 13C6-PFDA	519.1 > 473.7	4.89	3611.524	3611.524	NO	62.5	62.5

**Name: 170928G2\_43, Date: 29-Sep-2017, Time: 02:03:46, 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: 170928G2\_44, Date: 29-Sep-2017, Time: 02:16:22, ID: B710146-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	2.94	4380.679	4380.679	NO	78.5	78.5
2	2 13C4-PFBA	216.9 > 171.8	1.63	14520.699	14520.699	NO	69.8	69.8
3	3 13C5-PFHxA	318.0 > 272.9	3.33	17521.658	17521.658	NO	93.1	93.1
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8668.692	8668.692	NO	82.0	82.0
5	5 13C8-PFOA	421.3 > 376	4.24	4155.856	4155.856	NO	69.9	69.9
6	6 13C4-PFOS	503.0 > 79.9	4.65	7055.737	7055.737	NO	95.0	95.0
7	7 13C9-PFNA	472.2 > 426.9	4.58	5247.417	5247.417	NO	69.4	69.4
8	8 13C6-PFDA	519.1 > 473.7	4.89	5797.380	5797.380	NO	100.4	100.4

**Name: 170928G2\_45, Date: 29-Sep-2017, Time: 02:28:54, ID: 1701306-01 UET-1 0.125, Description: UET-1**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4582.934	4582.934	NO	82.2	82.2
2	2 13C4-PFBA	216.9 > 171.8	1.66	12718.436	12718.436	NO	61.1	61.1
3	3 13C5-PFHxA	318.0 > 272.9	3.32	14774.498	14774.498	NO	78.5	78.5
4	4 13C3-PFHxS	401.9 > 79.9	3.96	9250.071	9250.071	NO	87.5	87.5
5	5 13C8-PFOA	421.3 > 376	4.24	4376.864	4376.864	NO	73.6	73.6
6	6 13C4-PFOS	503.0 > 79.9	4.65	5298.623	5298.623	NO	71.4	71.4
7	7 13C9-PFNA	472.2 > 426.9	4.58	5239.037	5239.037	NO	69.2	69.2
8	8 13C6-PFDA	519.1 > 473.7	4.88	4139.831	4139.831	NO	71.7	71.7

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**Name: 170928G2\_46, Date: 29-Sep-2017, Time: 02:41:32, ID: 1701306-02 UET-2 0.125, Description: UET-2**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4428.596	4428.596	NO	79.4	79.4
2	2 13C4-PFBA	216.9 > 171.8	1.65	13600.966	13600.966	NO	65.4	65.4
3	3 13C5-PFHxA	318.0 > 272.9	3.32	15072.884	15072.884	NO	80.0	80.0
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8872.353	8872.353	NO	83.9	83.9
5	5 13C8-PFOA	421.3 > 376	4.24	4083.839	4083.839	NO	68.7	68.7
6	6 13C4-PFOS	503.0 > 79.9	4.65	4651.470	4651.470	NO	62.7	62.7
7	7 13C9-PFNA	472.2 > 426.9	4.58	5381.150	5381.150	NO	71.1	71.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	3944.936	3944.936	NO	68.3	68.3

**Name: 170928G2\_47, Date: 29-Sep-2017, Time: 02:54:10, ID: 1701306-03 UET-3 0.125, Description: UET-3**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4410.970	4410.970	NO	79.1	79.1
2	2 13C4-PFBA	216.9 > 171.8	1.64	13780.839	13780.839	NO	66.2	66.2
3	3 13C5-PFHxA	318.0 > 272.9	3.32	15655.268	15655.268	NO	83.1	83.1
4	4 13C3-PFHxS	401.9 > 79.9	3.95	10466.550	10466.550	NO	99.0	99.0
5	5 13C8-PFOA	421.3 > 376	4.24	4352.609	4352.609	NO	73.2	73.2
6	6 13C4-PFOS	503.0 > 79.9	4.65	6261.801	6261.801	NO	84.3	84.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	5528.880	5528.880	NO	73.1	73.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	4694.324	4694.324	NO	81.3	81.3

**Name: 170928G2\_48, Date: 29-Sep-2017, Time: 03:06:39, ID: 1701306-04 Trip Blank 0.125, Description: Trip Blank**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4571.830	4571.830	NO	82.0	82.0
2	2 13C4-PFBA	216.9 > 171.8	1.63	14997.026	14997.026	NO	72.1	72.1
3	3 13C5-PFHxA	318.0 > 272.9	3.32	17252.314	17252.314	NO	91.6	91.6
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8560.393	8560.393	NO	80.9	80.9
5	5 13C8-PFOA	421.3 > 376	4.24	4657.467	4657.467	NO	78.3	78.3
6	6 13C4-PFOS	503.0 > 79.9	4.65	5205.403	5205.403	NO	70.1	70.1
7	7 13C9-PFNA	472.2 > 426.9	4.58	5345.938	5345.938	NO	70.7	70.7
8	8 13C6-PFDA	519.1 > 473.7	4.88	4241.313	4241.313	NO	73.4	73.4

**Name: 170928G2\_49, Date: 29-Sep-2017, Time: 03:19:12, ID: 1701307-01 PZ-2 0.125, Description: PZ-2**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4371.623	4371.623	NO	78.4	78.4
2	2 13C4-PFBA	216.9 > 171.8	1.63	15405.250	15405.250	NO	74.0	74.0
3	3 13C5-PFHxA	318.0 > 272.9	3.32	17092.693	17092.693	NO	90.8	90.8
4	4 13C3-PFHxS	401.9 > 79.9	3.95	9990.577	9990.577	NO	94.5	94.5
5	5 13C8-PFOA	421.3 > 376	4.24	4159.143	4159.143	NO	70.0	70.0
6	6 13C4-PFOS	503.0 > 79.9	4.65	5583.526	5583.526	NO	75.2	75.2
7	7 13C9-PFNA	472.2 > 426.9	4.58	5254.416	5254.416	NO	69.4	69.4
8	8 13C6-PFDA	519.1 > 473.7	4.88	4189.598	4189.598	NO	72.5	72.5

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**Name: 170928G2\_50, Date: 29-Sep-2017, Time: 03:31:45, ID: 1701307-02 PZ-7 0.125, Description: PZ-7**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4415.446	4415.446	NO	79.2	79.2
2	2 13C4-PFBA	216.9 > 171.8	1.65	14816.251	14816.251	NO	71.2	71.2
3	3 13C5-PFHxA	318.0 > 272.9	3.32	16404.266	16404.266	NO	87.1	87.1
4	4 13C3-PFHxS	401.9 > 79.9	3.95	9168.110	9168.110	NO	86.7	86.7
5	5 13C8-PFOA	421.3 > 376	4.24	3978.541	3978.541	NO	66.9	66.9
6	6 13C4-PFOS	503.0 > 79.9	4.65	4358.619	4358.619	NO	58.7	58.7
7	7 13C9-PFNA	472.2 > 426.9	4.58	5678.832	5678.832	NO	75.1	75.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	3458.192	3458.192	NO	59.9	59.9

**Name: 170928G2\_51, Date: 29-Sep-2017, Time: 03:44:18, ID: 1701307-03 PZ-8 0.125, Description: PZ-8**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4232.638	4232.638	NO	75.9	75.9
2	2 13C4-PFBA	216.9 > 171.8	1.64	14297.173	14297.173	NO	68.7	68.7
3	3 13C5-PFHxA	318.0 > 272.9	3.32	15989.896	15989.896	NO	84.9	84.9
4	4 13C3-PFHxS	401.9 > 79.9	3.96	9335.606	9335.606	NO	88.3	88.3
5	5 13C8-PFOA	421.3 > 376	4.24	4388.684	4388.684	NO	73.8	73.8
6	6 13C4-PFOS	503.0 > 79.9	4.65	6557.837	6557.837	NO	88.3	88.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	5476.094	5476.094	NO	72.4	72.4
8	8 13C6-PFDA	519.1 > 473.7	4.88	5428.785	5428.785	NO	94.0	94.0

**Name: 170928G2\_52, Date: 29-Sep-2017, Time: 03:56:51, ID: 1701308-01 6 Random Rd 0.125, Description: 6 Random Rd**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4085.417	4085.417	NO	73.3	73.3
2	2 13C4-PFBA	216.9 > 171.8	1.63	13177.595	13177.595	NO	63.3	63.3
3	3 13C5-PFHxA	318.0 > 272.9	3.32	14636.884	14636.884	NO	77.7	77.7
4	4 13C3-PFHxS	401.9 > 79.9	3.96	7973.435	7973.435	NO	75.4	75.4
5	5 13C8-PFOA	421.3 > 376	4.24	3470.834	3470.834	NO	58.4	58.4
6	6 13C4-PFOS	503.0 > 79.9	4.65	5933.401	5933.401	NO	79.9	79.9
7	7 13C9-PFNA	472.2 > 426.9	4.58	4880.160	4880.160	NO	64.5	64.5
8	8 13C6-PFDA	519.1 > 473.7	4.88	5209.654	5209.654	NO	90.2	90.2

**Name: 170928G2\_53, Date: 29-Sep-2017, Time: 04:09:25, ID: 1701308-02 296 Lafayette Rd 0.125, Description: 296 Lafayette Rd**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4257.846	4257.846	NO	76.3	76.3
2	2 13C4-PFBA	216.9 > 171.8	1.64	13701.078	13701.078	NO	65.8	65.8
3	3 13C5-PFHxA	318.0 > 272.9	3.32	14760.422	14760.422	NO	78.4	78.4
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8349.943	8349.943	NO	79.0	79.0
5	5 13C8-PFOA	421.3 > 376	4.24	3775.850	3775.850	NO	63.5	63.5
6	6 13C4-PFOS	503.0 > 79.9	4.65	5217.309	5217.309	NO	70.3	70.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	4961.391	4961.391	NO	65.6	65.6
8	8 13C6-PFDA	519.1 > 473.7	4.88	3793.119	3793.119	NO	65.7	65.7

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**Name: 170928G2\_54, Date: 29-Sep-2017, Time: 04:21:58, ID: 1701309-01 MW-1 0.125, Description: MW-1**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4221.201	4221.201	NO	75.7	75.7
2	2 13C4-PFBA	216.9 > 171.8	1.65	13973.678	13973.678	NO	67.1	67.1
3	3 13C5-PFHxA	318.0 > 272.9	3.32	14719.387	14719.387	NO	78.2	78.2
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8390.783	8390.783	NO	79.3	79.3
5	5 13C8-PFOA	421.3 > 376	4.24	3501.915	3501.915	NO	58.9	58.9
6	6 13C4-PFOS	503.0 > 79.9	4.65	4721.303	4721.303	NO	63.6	63.6
7	7 13C9-PFNA	472.2 > 426.9	4.58	5336.385	5336.385	NO	70.5	70.5
8	8 13C6-PFDA	519.1 > 473.7	4.88	3441.000	3441.000	NO	59.6	59.6

**Name: 170928G2\_55, Date: 29-Sep-2017, Time: 04:34:32, ID: 1701309-02 MW-3 0.125, Description: MW-3**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.93	4708.354	4708.354	NO	84.4	84.4
2	2 13C4-PFBA	216.9 > 171.8	1.63	13555.015	13555.015	NO	65.1	65.1
3	3 13C5-PFHxA	318.0 > 272.9	3.32	15800.884	15800.884	NO	83.9	83.9
4	4 13C3-PFHxS	401.9 > 79.9	3.95	9890.879	9890.879	NO	93.5	93.5
5	5 13C8-PFOA	421.3 > 376	4.24	4343.818	4343.818	NO	73.1	73.1
6	6 13C4-PFOS	503.0 > 79.9	4.65	5106.191	5106.191	NO	68.8	68.8
7	7 13C9-PFNA	472.2 > 426.9	4.58	5285.897	5285.897	NO	69.9	69.9
8	8 13C6-PFDA	519.1 > 473.7	4.88	4106.065	4106.065	NO	71.1	71.1

**Name: 170928G2\_56, Date: 29-Sep-2017, Time: 04:47:01, 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: 170928G2\_57, Date: 29-Sep-2017, Time: 04:59:36, ID: ST170928G2-4 PFC CS3 1712819, Description: PFC CS3 1712819**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	5563.238	5563.238	NO	12.5	99.8
2	2 13C4-PFBA	216.9 > 171.8	1.71	20007.775	20007.775	NO	12.0	96.1
3	3 13C5-PFHxA	318.0 > 272.9	3.33	20037.436	20037.436	NO	13.3	106.4
4	4 13C3-PFHxS	401.9 > 79.9	3.96	11298.054	11298.054	NO	13.4	106.8
5	5 13C8-PFOA	421.3 > 376	4.24	5543.625	5543.625	NO	11.7	93.2
6	6 13C4-PFOS	503.0 > 79.9	4.65	7705.428	7705.428	NO	13.0	103.8
7	7 13C9-PFNA	472.2 > 426.9	4.58	8167.927	8167.927	NO	13.5	107.9
8	8 13C6-PFDA	519.1 > 473.7	4.89	5518.904	5518.904	NO	11.9	95.6

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**Name: 170928G2\_58, Date: 29-Sep-2017, Time: 05:12:07, 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		

**Name: 170928G2\_59, Date: 29-Sep-2017, Time: 05:24:43, ID: 1701309-03 MW-6 0.125, Description: MW-6**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4429.704	4429.704	NO	79.4	79.4
2	2 13C4-PFBA	216.9 > 171.8	1.65	13633.234	13633.234	NO	65.5	65.5
3	3 13C5-PFHxA	318.0 > 272.9	3.33	15428.710	15428.710	NO	81.9	81.9
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8887.455	8887.455	NO	84.0	84.0
5	5 13C8-PFOA	421.3 > 376	4.24	3969.889	3969.889	NO	66.8	66.8
6	6 13C4-PFOS	503.0 > 79.9	4.65	5683.556	5683.556	NO	76.6	76.6
7	7 13C9-PFNA	472.2 > 426.9	4.58	5157.941	5157.941	NO	68.2	68.2
8	8 13C6-PFDA	519.1 > 473.7	4.88	4201.671	4201.671	NO	72.8	72.8

**Name: 170928G2\_60, Date: 29-Sep-2017, Time: 05:37:12, ID: 1701309-04 MW-101 0.125, Description: MW-101**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4319.281	4319.281	NO	77.4	77.4
2	2 13C4-PFBA	216.9 > 171.8	1.65	11952.213	11952.213	NO	57.4	57.4
3	3 13C5-PFHxA	318.0 > 272.9	3.32	13501.225	13501.225	NO	71.7	71.7
4	4 13C3-PFHxS	401.9 > 79.9	3.96	6781.274	6781.274	NO	64.1	64.1
5	5 13C8-PFOA	421.3 > 376	4.24	2972.805	2972.805	NO	50.0	50.0
6	6 13C4-PFOS	503.0 > 79.9	4.65	1803.117	1803.117	YES	24.3	24.3
7	7 13C9-PFNA	472.2 > 426.9	4.58	2448.753	2448.753	YES	32.4	32.4
8	8 13C6-PFDA	519.1 > 473.7	4.88	1141.269	1141.269	YES	19.8	19.8

**Name: 170928G2\_61, Date: 29-Sep-2017, Time: 05:49:46, ID: 1701309-05 MW-102 0.125, Description: MW-102**

#	Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4435.965	4435.965	NO	79.5	79.5
2	2 13C4-PFBA	216.9 > 171.8	1.64	14885.207	14885.207	NO	71.5	71.5
3	3 13C5-PFHxA	318.0 > 272.9	3.32	15818.361	15818.361	NO	84.0	84.0
4	4 13C3-PFHxS	401.9 > 79.9	3.96	9656.635	9656.635	NO	91.3	91.3
5	5 13C8-PFOA	421.3 > 376	4.24	4360.379	4360.379	NO	73.3	73.3
6	6 13C4-PFOS	503.0 > 79.9	4.65	7189.142	7189.142	NO	96.8	96.8
7	7 13C9-PFNA	472.2 > 426.9	4.58	6320.101	6320.101	NO	83.5	83.5
8	8 13C6-PFDA	519.1 > 473.7	4.88	5923.063	5923.063	NO	102.6	102.6



Dataset: Untitled

Last Altered: Monday, October 02, 2017 09:48:25 Pacific Daylight Time

Printed: Monday, October 02, 2017 09:48:57 Pacific Daylight Time

**Name: 170928G2\_62, Date: 29-Sep-2017, Time: 06:02:19, ID: 1701309-06 TW 15-74 0.125, Description: TW 15-74**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	4525.197	4525.197	NO	81.1	81.1
2	2 13C4-PFBA	216.9 > 171.8	1.64	14059.776	14059.776	NO	67.6	67.6
3	3 13C5-PFHxA	318.0 > 272.9	3.32	15426.396	15426.396	NO	81.9	81.9
4	4 13C3-PFHxS	401.9 > 79.9	3.96	9613.134	9613.134	NO	90.9	90.9
5	5 13C8-PFOA	421.3 > 376	4.24	4264.531	4264.531	NO	71.7	71.7
6	6 13C4-PFOS	503.0 > 79.9	4.65	6891.181	6891.181	NO	92.8	92.8
7	7 13C9-PFNA	472.2 > 426.9	4.58	5783.153	5783.153	NO	76.4	76.4
8	8 13C6-PFDA	519.1 > 473.7	4.88	5341.076	5341.076	NO	92.5	92.5

**Name: 170928G2\_63, Date: 29-Sep-2017, Time: 06:14:52, ID: 1701309-07 Trip Blank 0.125, Description: Trip Blank**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	3990.602	3990.602	NO	71.6	71.6
2	2 13C4-PFBA	216.9 > 171.8	1.65	14070.193	14070.193	NO	67.6	67.6
3	3 13C5-PFHxA	318.0 > 272.9	3.33	15436.479	15436.479	NO	82.0	82.0
4	4 13C3-PFHxS	401.9 > 79.9	3.96	8108.997	8108.997	NO	76.7	76.7
5	5 13C8-PFOA	421.3 > 376	4.24	3749.595	3749.595	NO	63.1	63.1
6	6 13C4-PFOS	503.0 > 79.9	4.65	5775.178	5775.178	NO	77.8	77.8
7	7 13C9-PFNA	472.2 > 426.9	4.58	4929.195	4929.195	NO	65.1	65.1
8	8 13C6-PFDA	519.1 > 473.7	4.88	4418.417	4418.417	NO	76.5	76.5

**Name: 170928G2\_64, Date: 29-Sep-2017, Time: 06:27:33, 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: 170928G2\_65, Date: 29-Sep-2017, Time: 06:40:02, ID: ST170928G2-5 PFC CS3 1712819, Description: PFC CS3 1712819**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.94	5597.265	5597.265	NO	12.5	100.4
2	2 13C4-PFBA	216.9 > 171.8	1.72	20275.289	20275.289	NO	12.2	97.4
3	3 13C5-PFHxA	318.0 > 272.9	3.33	21147.465	21147.465	NO	14.0	112.3
4	4 13C3-PFHxS	401.9 > 79.9	3.96	10836.507	10836.507	NO	12.8	102.5
5	5 13C8-PFOA	421.3 > 376	4.24	4930.283	4930.283	NO	10.4	82.9
6	6 13C4-PFOS	503.0 > 79.9	4.65	7044.330	7044.330	NO	11.9	94.9
7	7 13C9-PFNA	472.2 > 426.9	4.59	7425.267	7425.267	NO	12.3	98.1
8	8 13C6-PFDA	519.1 > 473.7	4.89	4150.311	4150.311	NO	9.0	71.9

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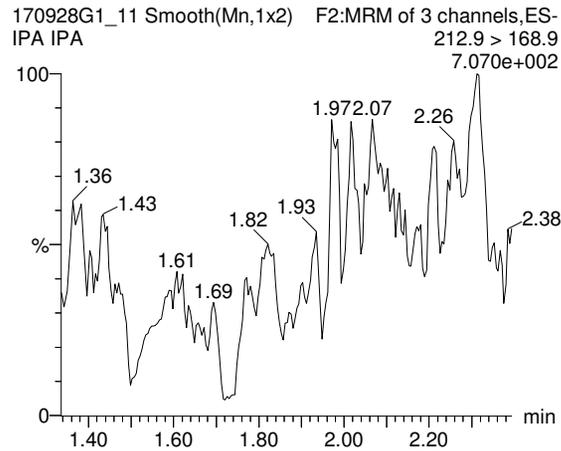
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Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

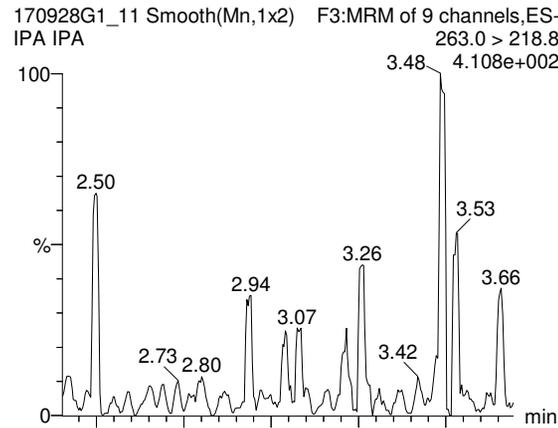
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Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1\_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

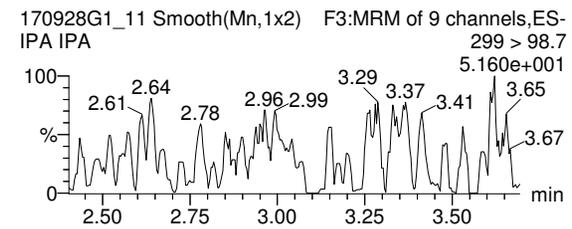
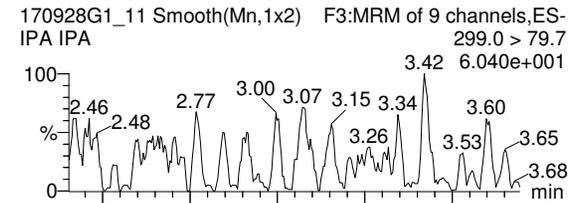
**PFBA**



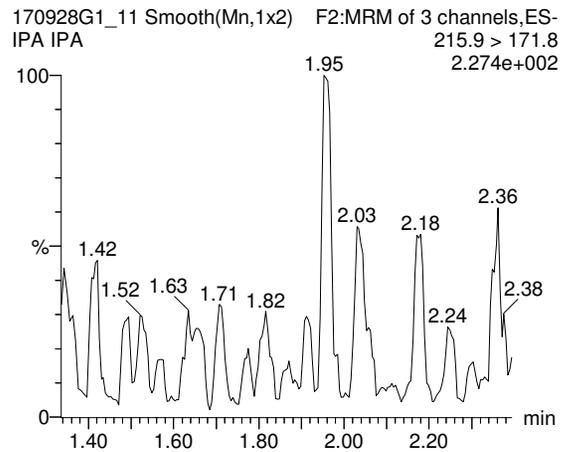
**PFPeA**



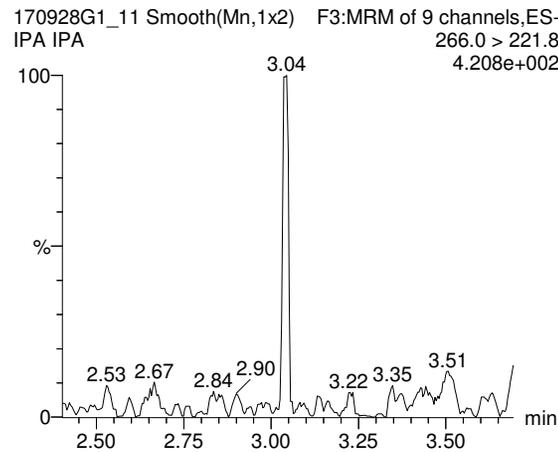
**PFBS**



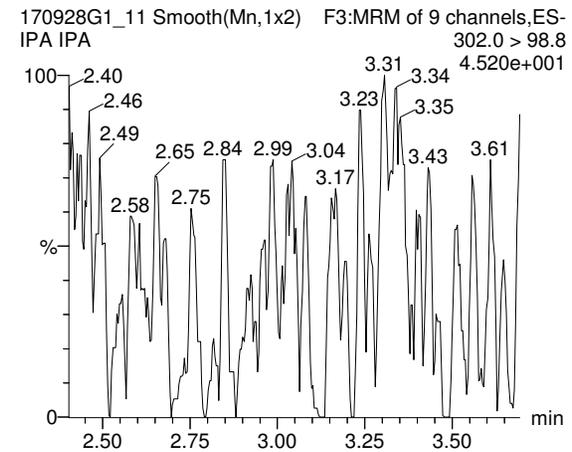
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**



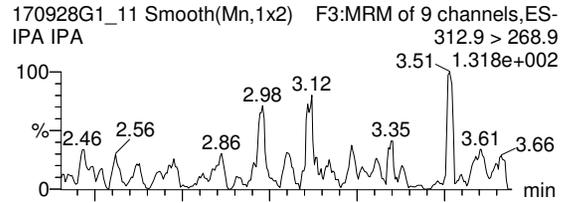
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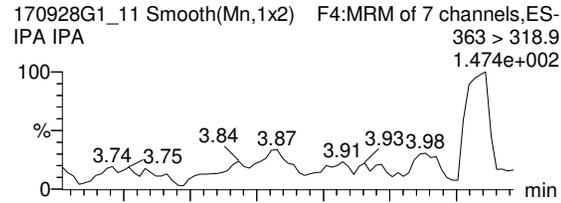
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Name: 170928G1\_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

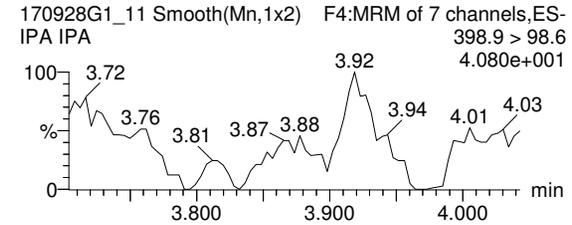
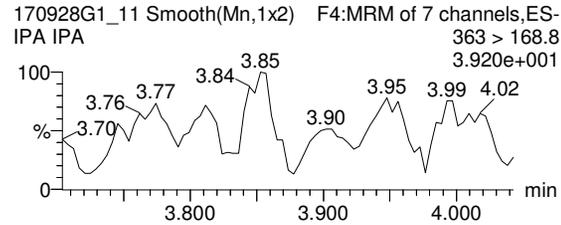
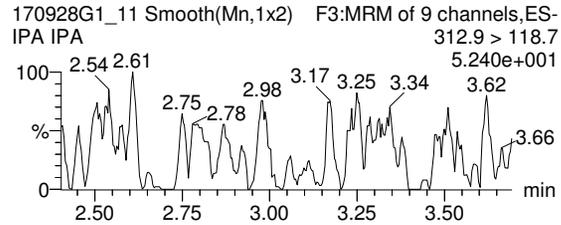
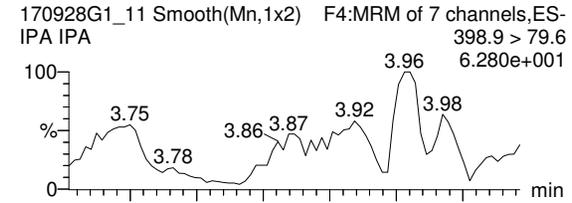
**PFHxA**



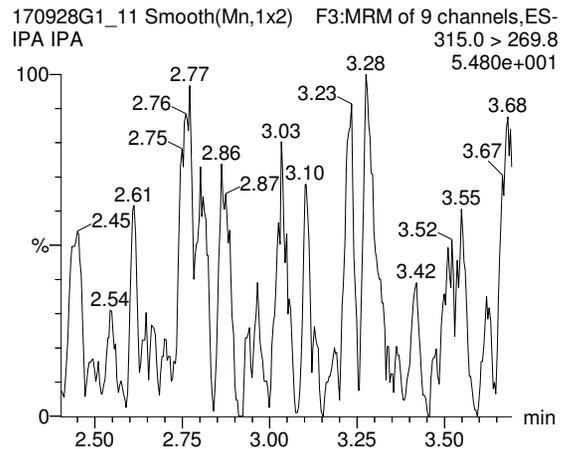
**PFHpA**



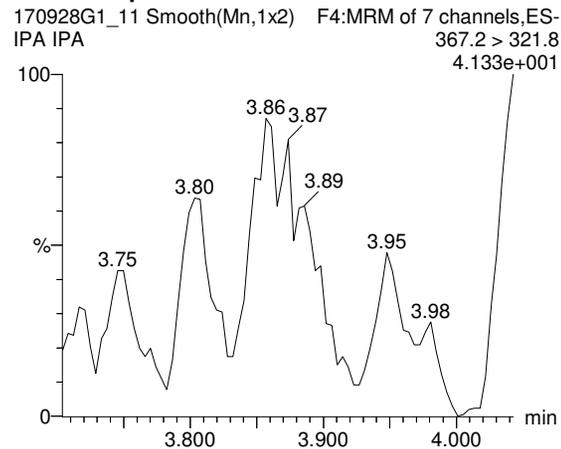
**PFHxS**



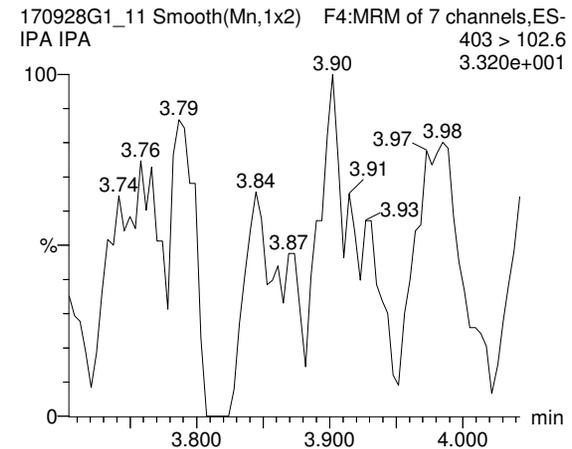
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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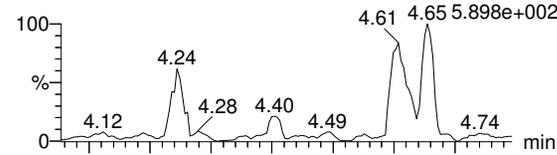
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Name: 170928G1\_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

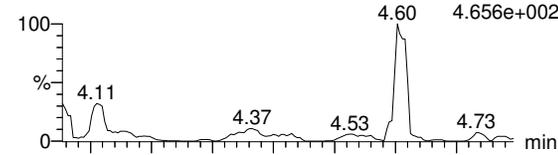
**PFOA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 368.7



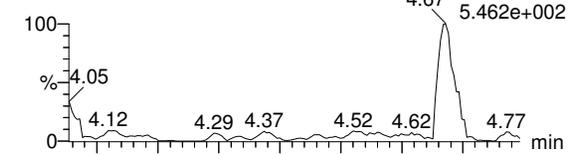
**PFNA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 418.8

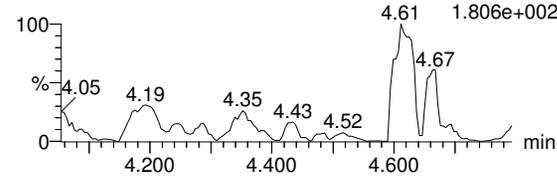


**PFOS**

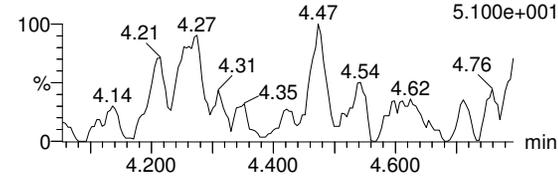
170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499.0 > 79.9



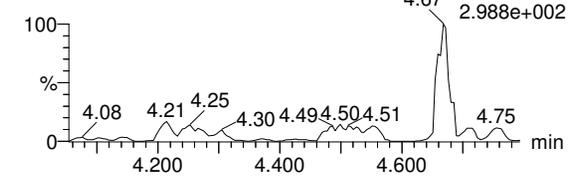
170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 168.8



170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 219.0

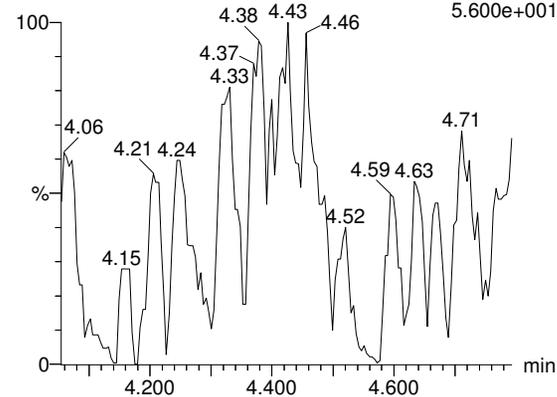


170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499 > 98.8



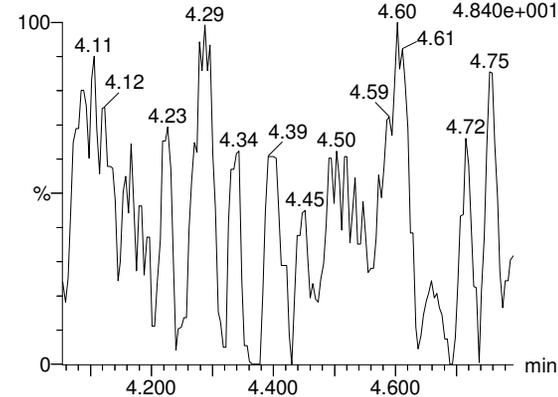
**13C2-PFOA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 414.9 > 369.7



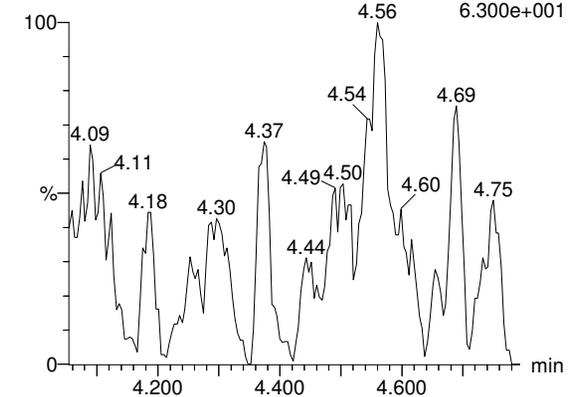
**13C5-PFNA**

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

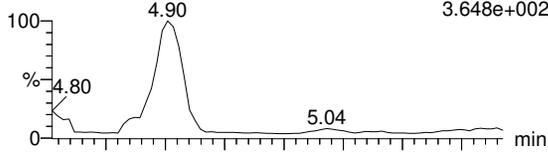
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Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

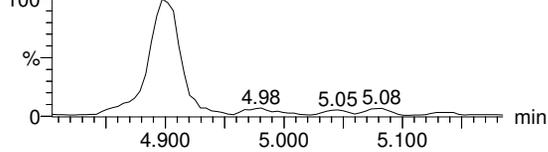
Name: 170928G1\_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

**PFDA**

170928G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 219.0 3.648e+002

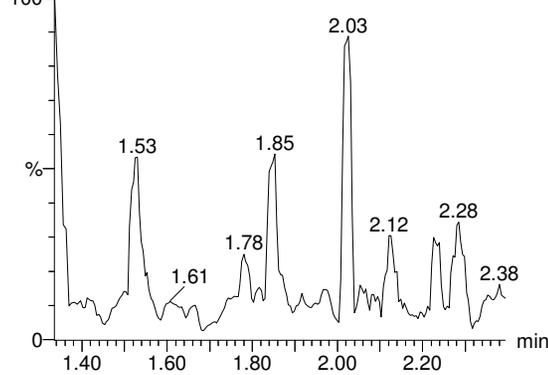


170928G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 468.7 1.871e+003



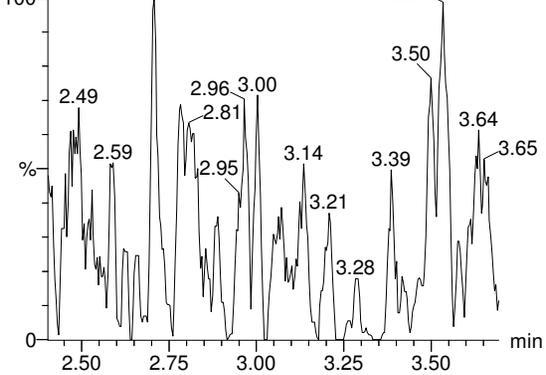
**13C4-PFBA**

170928G1\_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 216.9 > 171.8 1.350e+002



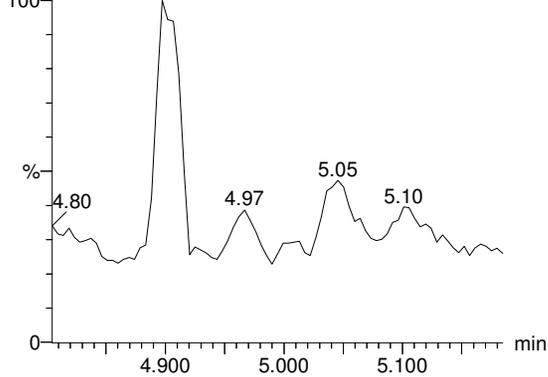
**13C5-PFHxA**

170928G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 318 > 272.9 5.840e+001



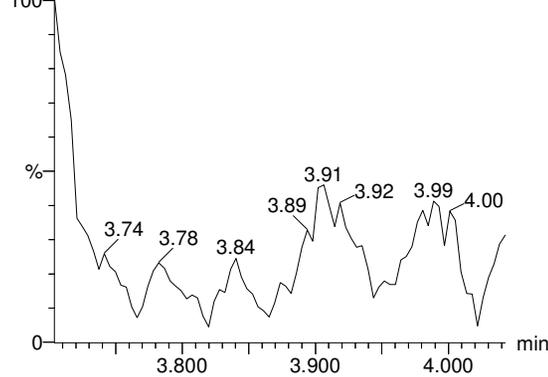
**13C2-PFDA**

170928G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 514.8 > 469.7 7.180e+001



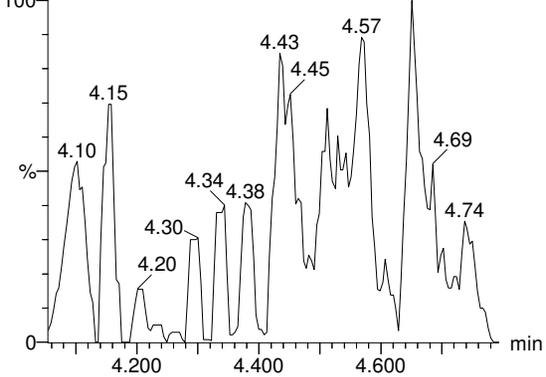
**13C3-PFHxA**

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



Dataset: Untitled

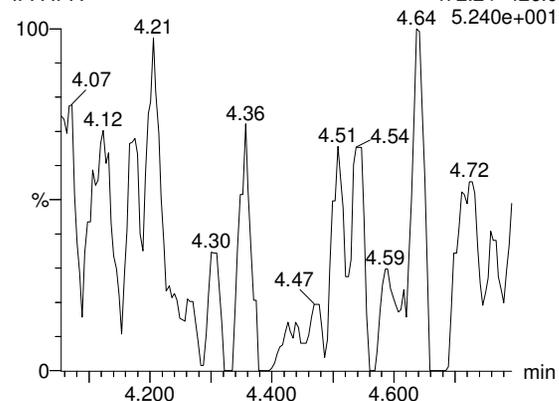
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Name: 170928G1\_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

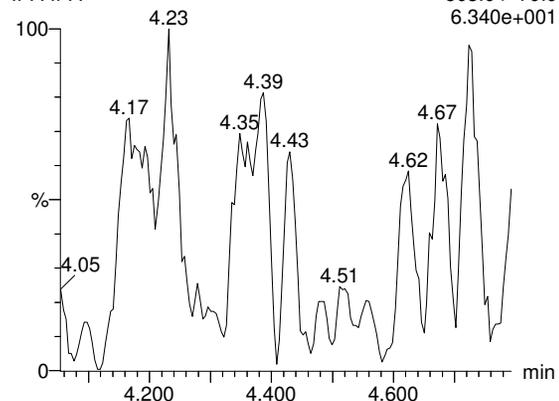
**13C9-PFNA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 472.2 > 426.9



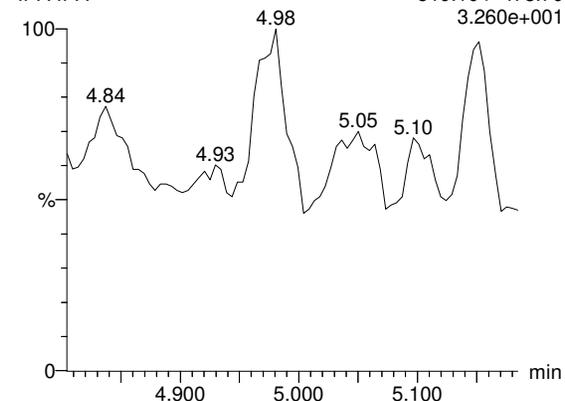
**13C4-PFOS**

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



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-2.qld

Last Altered: Friday, September 29, 2017 12:39:51 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:42:25 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: 170928G2\_2, Date: 28-Sep-2017, Time: 17:29:07, ID: ST170928G2-1 PFC CS3 1712819, Description: PFC CS3 1712819

	# Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.68	16359.216	25187.662	8.119	10.8	108.4
2	2 PFPeA	263.0 > 218.8	2.64	8811.740	9390.535	11.730	9.6	96.0
3	3 PFBS	299.0 > 79.7	2.92	6756.550	5577.146	15.143	9.1	90.5
4	4 PFHxA	312.9 > 268.9	3.31	11444.895	7348.728	19.467	9.8	98.3
5	5 PFHpA	363 > 318.9	3.82	14993.651	8608.509	21.772	9.2	92.4
6	6 PFHxS	398.9 > 79.6	3.95	6317.035	4493.095	17.574	9.2	91.9
7	7 PFOA	413.0 > 368.7	4.23	12698.225	17010.113	9.331	9.6	96.4
8	8 PFNA	463.0 > 418.8	4.57	12406.884	6560.738	23.639	8.6	86.0
9	9 PFOS	499.0 > 79.9	4.64	2840.689	6874.129	5.166	10.4	103.5
10	11 13C3-PFBA	215.9 > 171.8	1.68	25187.662	20810.125	15.129	11.0	88.1
11	12 13C3-PFBS	302.0 > 98.8	2.92	5577.146	18829.551	3.702	15.7	125.6
12	13 13C3-PFPeA	266.0 > 221.8	2.64	9390.535	18829.551	6.234	12.5	100.2
13	14 13C2-PFHxA	315.0 > 269.8	3.31	7348.728	18829.551	4.878	12.9	103.0
14	15 13C4-PFHpA	367.2 > 321.8	3.82	8608.509	18829.551	5.715	12.8	102.3
15	16 18O2-PFHxS	403 > 102.6	3.94	4493.095	10575.617	5.311	12.2	97.3
16	17 13C2-PFOA	414.9 > 369.7	4.23	17010.113	5945.135	35.765	9.6	77.0
17	18 13C5-PFNA	468.2 > 422.9	4.57	6560.738	7566.551	10.838	12.2	97.9
18	20 13C8-PFOS	507.0 > 79.9	4.64	6874.129	7424.104	11.574	12.3	98.1
19	21 13C4-PFBA	216.9 > 171.8	1.68	20810.125	20810.125	12.500	12.5	100.0
20	22 13C5-PFHxA	318 > 272.9	3.31	18829.551	18829.551	12.500	12.5	100.0
21	23 13C3-PFHxS	401.9 > 79.9	3.94	10575.617	10575.617	12.500	12.5	100.0
22	24 13C8-PFOA	421.3 > 376	4.23	5945.135	5945.135	12.500	12.5	100.0
23	25 13C9-PFNA	472.2 > 426.9	4.57	7566.551	7566.551	12.500	12.5	100.0
24	26 13C4-PFOS	503.0 > 79.9	4.64	7424.104	7424.104	12.500	12.5	100.0

70-130

for 9/29/17

50-150

Dataset: Untitled

Last Altered: Friday, September 29, 2017 12:22:28 Pacific Daylight Time  
 Printed: Friday, September 29, 2017 12:29:29 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	170928G2_1	IPA	28-Sep-17	17:16:46
2	170928G2_2	ST170928G2-1 PFC CS3 17I2819	28-Sep-17	17:29:07
3	170928G2_3	IPA	28-Sep-17	17:41:40
4	170928G2_4	1701277-01 OW2E-MW09R-0917 0.11883	28-Sep-17	17:54:16
5	170928G2_5	1701277-02 OW2C-MW05-0917 0.11734	28-Sep-17	18:06:53
6	170928G2_6	1701277-03 OW2C-MW05P-0917 0.10421	28-Sep-17	18:19:19
7	170928G2_7	1701277-04 OW2C-MW25-0917 0.10208	28-Sep-17	18:31:52
8	170928G2_8	IPA	28-Sep-17	18:44:26
9	170928G2_9	1701277-05 OW2C-MW19-0917 0.10774	28-Sep-17	18:56:59
10	170928G2_10	1701277-06 OW2C-MW24-0917 0.10943	28-Sep-17	19:09:33
11	170928G2_11	IPA	28-Sep-17	19:22:05
12	170928G2_12	B7I0112-MS1 Matrix Spike 0.1171	28-Sep-17	19:34:37
13	170928G2_13	B7I0112-MSD1 Matrix Spike Dup 0.11523	28-Sep-17	19:47:12
14	170928G2_14	IPA	28-Sep-17	19:59:40
15	170928G2_15	1701277-07 OW2C-EB-0917 0.11692	28-Sep-17	20:12:16
16	170928G2_16	1701277-08 OW2C-FB-0917 0.11728	28-Sep-17	20:24:46
17	170928G2_17	IPA	28-Sep-17	20:37:28
18	170928G2_18	1701277-06@10X OW2C-MW24-0917 0.10943	28-Sep-17	20:50:04
19	170928G2_19	B7I0112-MS1@10X Matrix Spike 0.1171	28-Sep-17	21:02:36
20	170928G2_20	B7I0112-MSD1@10X Matrix Spike Dup 0.11523	28-Sep-17	21:15:10
21	170928G2_21	1701277-04@10X OW2C-MW25-0917 0.10208	28-Sep-17	21:27:44
22	170928G2_22	IPA	28-Sep-17	21:40:17
23	170928G2_23	ST170928G2-2 PFC CS3 17I2819	28-Sep-17	21:52:49
24	170928G2_24	IPA	28-Sep-17	22:05:19
25	170928G2_25	B7I0147-BS1 OPR 0.125	28-Sep-17	22:17:55
26	170928G2_26	B7I0141-BS1 OPR 1	28-Sep-17	22:30:27
27	170928G2_27	IPA	28-Sep-17	22:43:01
28	170928G2_28	B7I0147-BLK1 Method Blank 0.125	28-Sep-17	22:55:37
29	170928G2_29	B7I0141-BLK1 Method Blank 1	28-Sep-17	23:08:06
30	170928G2_30	1701265-44 S-SED-110 1	28-Sep-17	23:20:40
31	170928G2_31	1701265-45 S-SED-LR 1	28-Sep-17	23:33:13

Ⓐ NOT USED. NEEDS ISC.

LA 9/29/17



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Friday, September 29, 2017 12:22:28 Pacific Daylight Time

Printed: Friday, September 29, 2017 12:29:25 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170928G2_32	<sup>Ⓐ</sup> 1701265-46 S-SED-4 1	28-Sep-17	23:45:47
33	170928G2_33	1701265-47 S-SED-BB2 1	28-Sep-17	23:58:20
34	170928G2_34	1701265-48 S-SED-BB1 1	29-Sep-17	00:10:53
35	170928G2_35	1701283-01 Middletown Sludge 1 1	29-Sep-17	00:23:25
36	170928G2_36	1701283-02 Middletown Sludge 2 1	29-Sep-17	00:35:56
37	170928G2_37	1701283-03 Middletown Sludge 3 1	29-Sep-17	00:48:33
38	170928G2_38	<sup>Ⓐ</sup> <del>1701277-04 RE1-OW2C-MW25-0917-0.10208</del>	29-Sep-17	01:01:02
39	170928G2_39	IPA	29-Sep-17	01:13:34
40	170928G2_40	ST170928G2-3 PFC CS3 17I2819	29-Sep-17	01:26:09
41	170928G2_41	IPA	29-Sep-17	01:38:39
42	170928G2_42	B7I0146-BS1 OPR 0.125	29-Sep-17	01:51:15
43	170928G2_43	IPA	29-Sep-17	02:03:46
44	170928G2_44	B7I0146-BLK1 Method Blank 0.125	29-Sep-17	02:16:22
45	170928G2_45	1701306-01 UET-1 0.125	29-Sep-17	02:28:54
46	170928G2_46	1701306-02 UET-2 0.125	29-Sep-17	02:41:32
47	170928G2_47	1701306-03 UET-3 0.125	29-Sep-17	02:54:10
48	170928G2_48	1701306-04 Trip Blank 0.125	29-Sep-17	03:06:39
49	170928G2_49	1701307-01 PZ-2 0.125	29-Sep-17	03:19:12
50	170928G2_50	1701307-02 PZ-7 0.125	29-Sep-17	03:31:45
51	170928G2_51	1701307-03 PZ-8 0.125	29-Sep-17	03:44:18
52	170928G2_52	1701308-01 6 Random Rd 0.125	29-Sep-17	03:56:51
53	170928G2_53	1701308-02 296 Lafayette Rd 0.125	29-Sep-17	04:09:25
54	170928G2_54	1701309-01 MW-1 0.125	29-Sep-17	04:21:58
55	170928G2_55	1701309-02 MW-3 0.125	29-Sep-17	04:34:32
56	170928G2_56	IPA	29-Sep-17	04:47:01
57	170928G2_57	ST170928G2-4 PFC CS3 17I2819	29-Sep-17	04:59:36
58	170928G2_58	IPA	29-Sep-17	05:12:07
59	170928G2_59	1701309-03 MW-6 0.125	29-Sep-17	05:24:43
60	170928G2_60	1701309-04 MW-101 0.125	29-Sep-17	05:37:12
61	170928G2_61	1701309-05 MW-102 0.125	29-Sep-17	05:49:46
62	170928G2_62	1701309-06 TW 15-74 0.125	29-Sep-17	06:02:19
63	170928G2_63	1701309-07 Trip Blank 0.125	29-Sep-17	06:14:52
64	170928G2_64	IPA	29-Sep-17	06:27:33
65	170928G2_65	ST170928G2-5 PFC CS3 17I2819	29-Sep-17	06:40:02

<sup>Ⓐ</sup> NOT USED. NEEDS ISC. CA 9129117

Dataset: Untitled

Last Altered: Friday, September 29, 2017 12:22:28 Pacific Daylight Time

Printed: Friday, September 29, 2017 12:29:29 Pacific Daylight Time

**Compound name: PFBA**

	Name	ID	Acq.Date	Acq.Time
66	170928G2_66	IPA	29-Sep-17	06:52:37

LC Calibration Standards Review Checklist

Q1

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
<u>ST17092892 - 1</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"/>	<u>NA</u>
<u>- 2</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>- 3</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>- 4</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>- 5</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>LMH</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>LMH</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>LMH</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>LMH</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>LMH</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"/>

Full Mass Cal. Date: 4/5/17

Run Log Present:

# of Samples per Sequence Checked:

Reviewed By: AM 9/29/17  
 Initials/Date

Comments:  
L9\_2Trans - A

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-2.qld

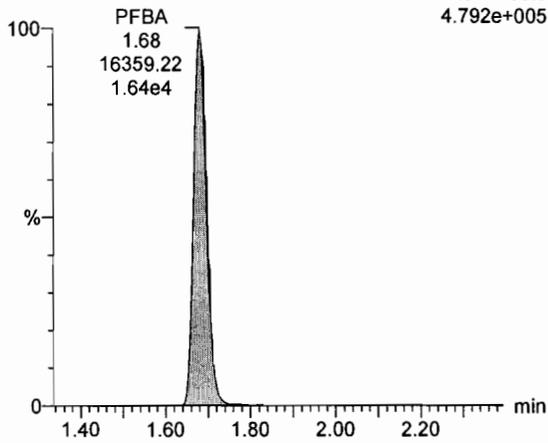
Last Altered: Friday, September 29, 2017 12:39:51 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:41:01 Pacific Daylight Time

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: 170928G2\_2, Date: 28-Sep-2017, Time: 17:29:07, ID: ST170928G2-1 PFC CS3 1712819, Description: PFC CS3 1712819

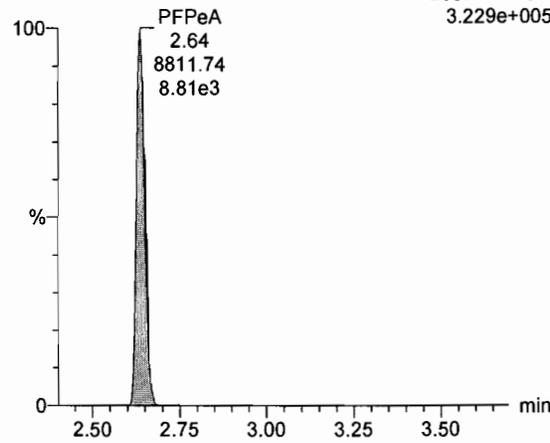
**PFBA**

170928G2\_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
4.792e+005



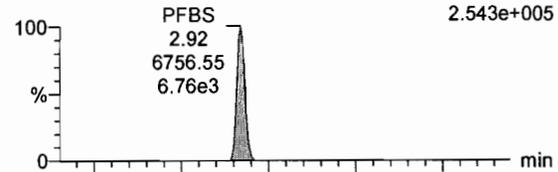
**PFPeA**

170928G2\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
3.229e+005

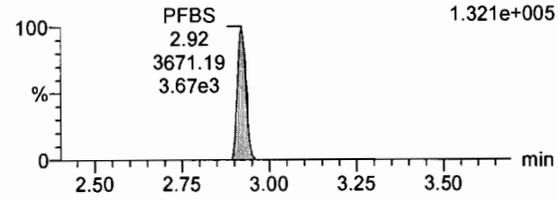


**PFBS**

170928G2\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
2.543e+005

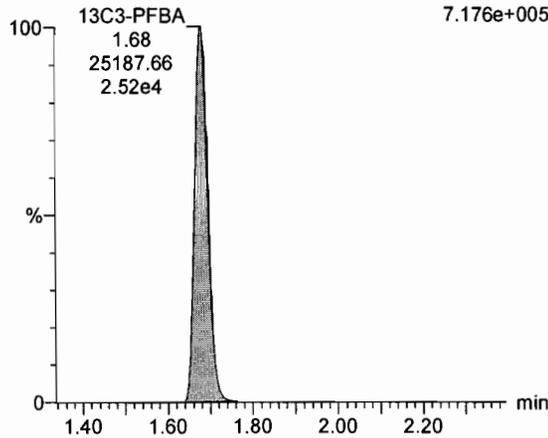


170928G2\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
1.321e+005



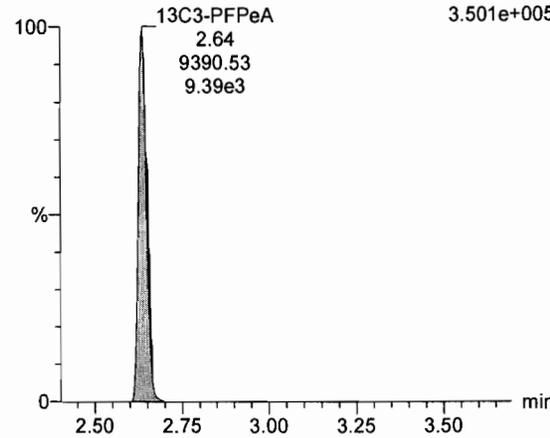
**13C3-PFBA**

170928G2\_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
7.176e+005



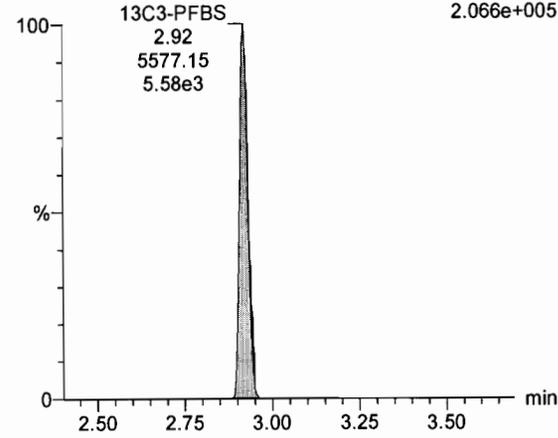
**13C3-PFPeA**

170928G2\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
3.501e+005



**13C3-PFBS**

170928G2\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
2.066e+005

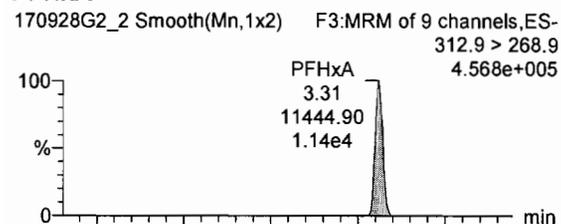


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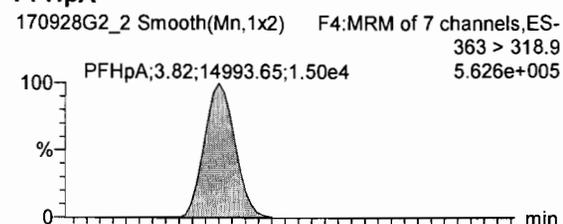
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Name: 170928G2\_2, Date: 28-Sep-2017, Time: 17:29:07, ID: ST170928G2-1 PFC CS3 1712819, Description: PFC CS3 1712819

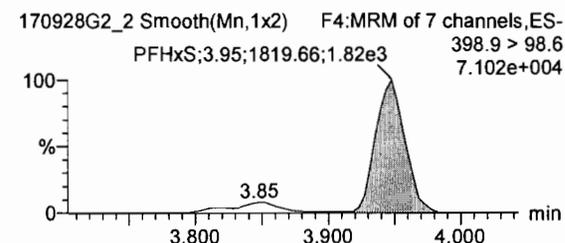
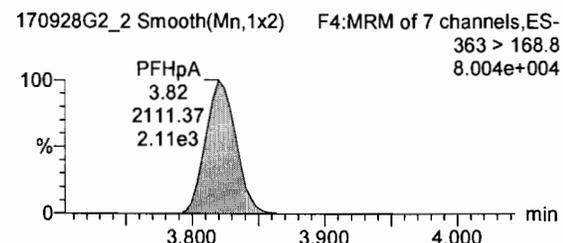
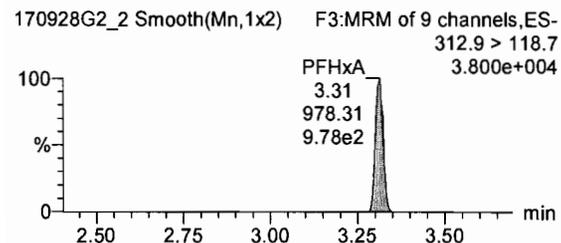
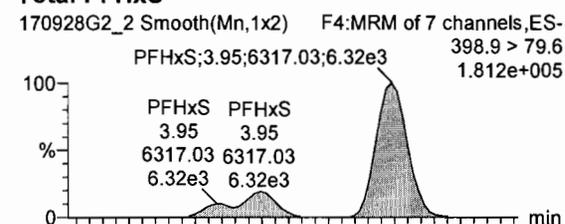
**PFHxA**



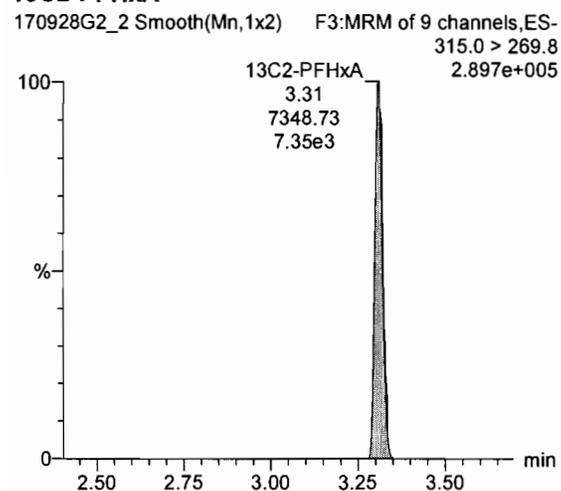
**PFHpA**



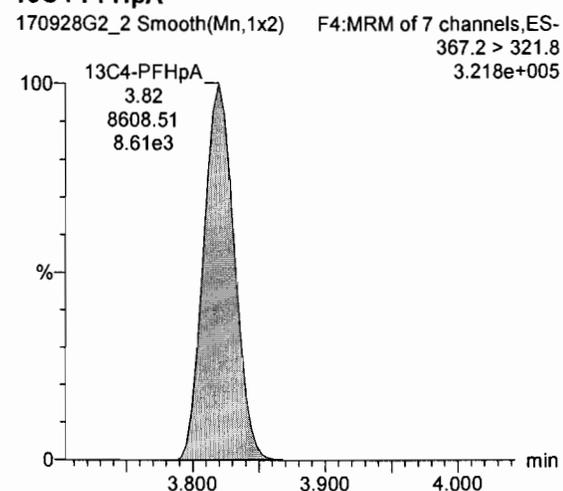
**Total PFHxS**



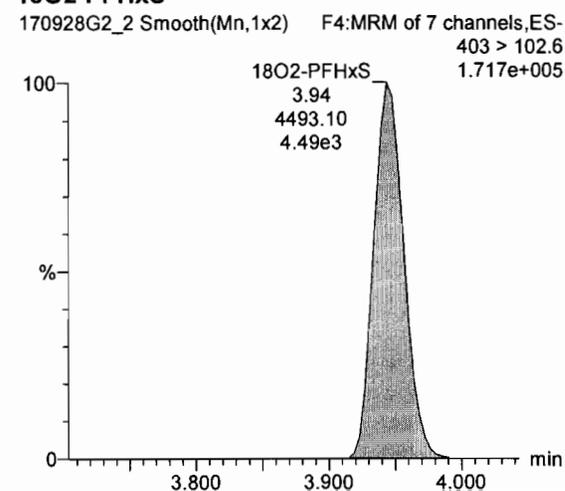
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



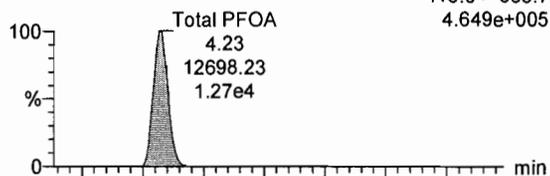
Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-2.qld

Last Altered: Friday, September 29, 2017 12:39:51 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:41:01 Pacific Daylight Time

Name: 170928G2\_2, Date: 28-Sep-2017, Time: 17:29:07, ID: ST170928G2-1 PFC CS3 1712819, Description: PFC CS3 1712819

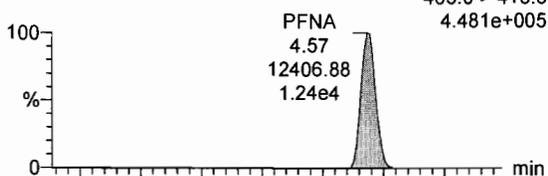
**Total PFOA**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7  
4.649e+005



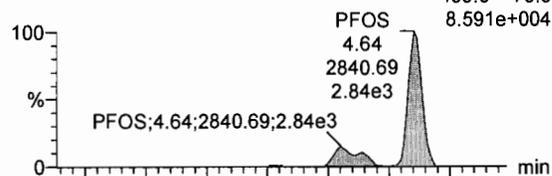
**PFNA**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8  
4.481e+005

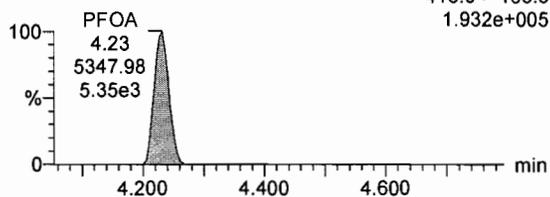


**Total PFOS**

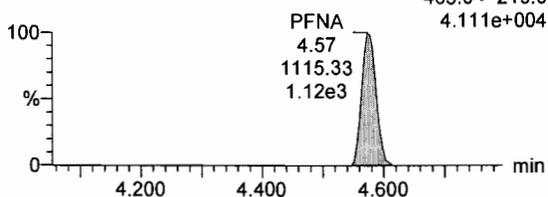
170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9  
8.591e+004



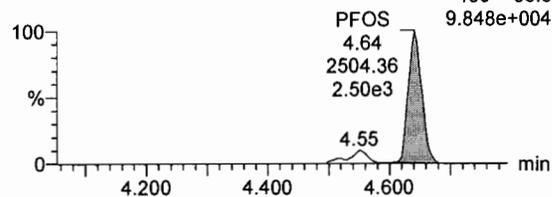
170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8  
1.932e+005



170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0  
4.111e+004

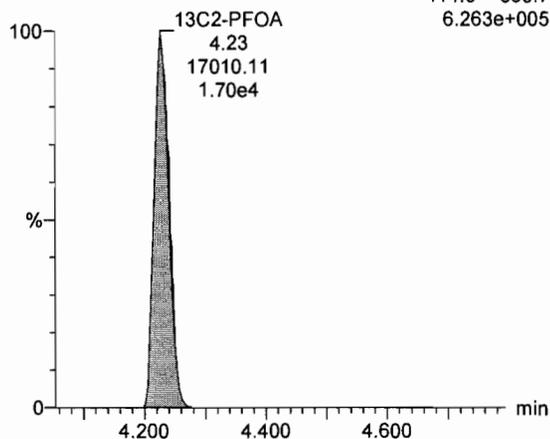


170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8  
9.848e+004



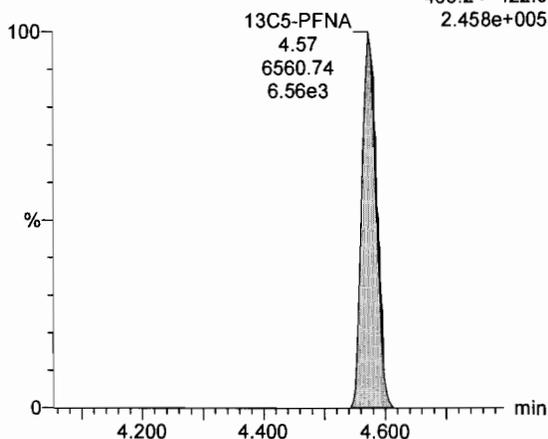
**13C2-PFOA**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7  
6.263e+005



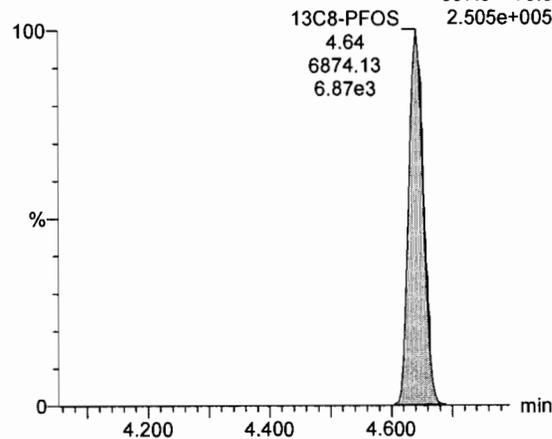
**13C5-PFNA**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9  
2.458e+005



**13C8-PFOS**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9  
2.505e+005



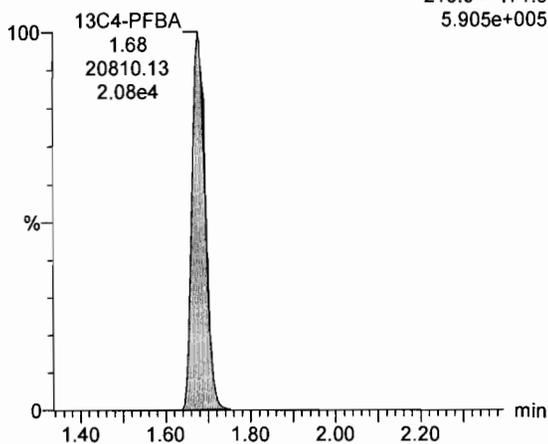
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Last Altered: Friday, September 29, 2017 12:39:51 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:41:01 Pacific Daylight Time

Name: 170928G2\_2, Date: 28-Sep-2017, Time: 17:29:07, ID: ST170928G2-1 PFC CS3 1712819, Description: PFC CS3 1712819

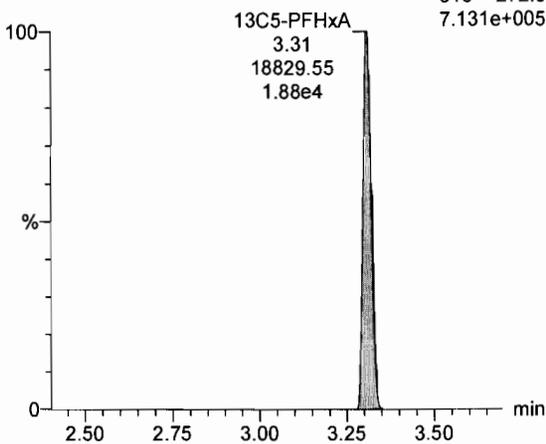
**13C4-PFBA**

170928G2\_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
5.905e+005



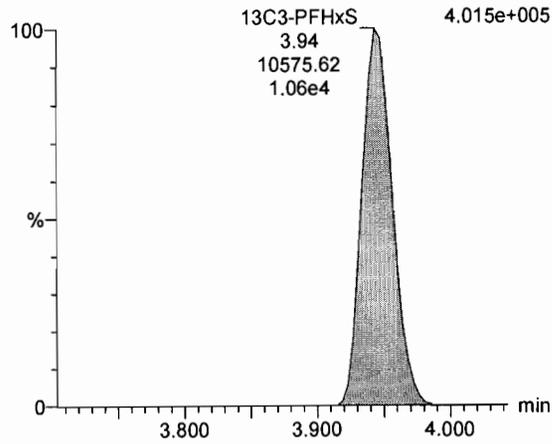
**13C5-PFHxA**

170928G2\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
7.131e+005



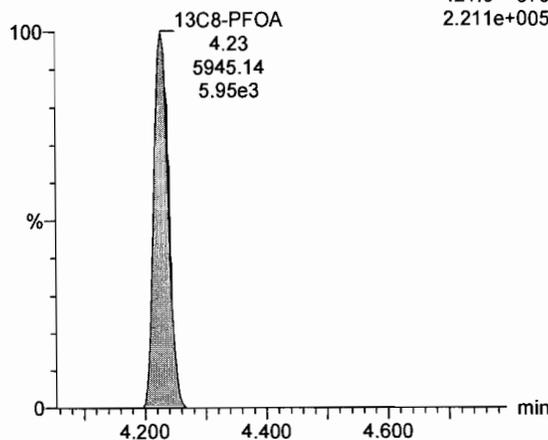
**13C3-PFHxS**

170928G2\_2 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.015e+005



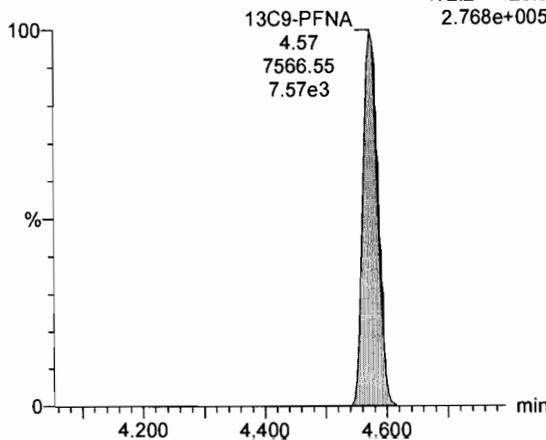
**13C8-PFOA**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
2.211e+005



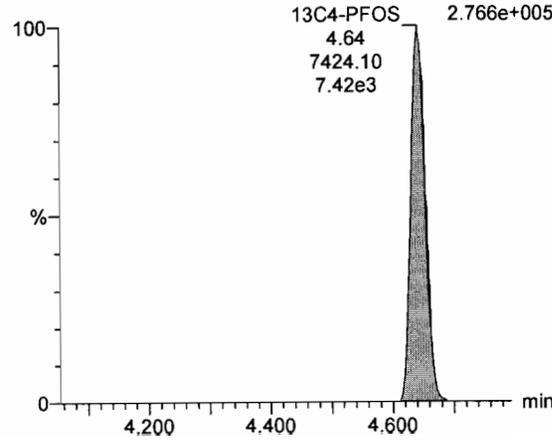
**13C9-PFNA**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.768e+005



**13C4-PFOS**

170928G2\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.766e+005



Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-23.qld

Last Altered: Friday, September 29, 2017 12:47:08 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:47:30 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: 170928G2\_23, Date: 28-Sep-2017, Time: 21:52:49, ID: ST170928G2-2 PFC CS3 17I2819, Description: PFC CS3 17I2819

#	Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.69	16692.090	30304.666	6.885	9.2	92.0
2	2 PFPeA	263.0 > 218.8	2.65	9550.807	9834.306	12.140	9.9	99.4
3	3 PFBS	299.0 > 79.7	2.93	6997.335	5806.455	15.064	9.0	90.0
4	4 PFHxA	312.9 > 268.9	3.32	13307.091	8875.786	18.741	9.5	94.6
5	5 PFHpA	363 > 318.9	3.83	17423.717	9846.519	22.119	9.4	93.9
6	6 PFHxS	398.9 > 79.6	3.96	7781.144	5345.016	18.197	9.5	95.1
7	7 PFOA	413.0 > 368.7	4.24	15501.380	20217.510	9.584	9.9	99.1
8	8 PFNA	463.0 > 418.8	4.58	17321.023	8304.900	26.070	9.5	94.9
9	9 PFOS	499.0 > 79.9	4.65	3373.319	8818.954	4.781	9.6	95.8
10	11 13C3-PFBA	215.9 > 171.8	1.69	30304.666	22845.137	16.582	12.1	96.6
11	12 13C3-PFBS	302.0 > 98.8	2.93	5806.455	22833.180	3.179	13.5	107.8
12	13 13C3-PFPeA	266.0 > 221.8	2.65	9834.306	22833.180	5.384	10.8	86.5
13	14 13C2-PFHxA	315.0 > 269.8	3.32	8875.786	22833.180	4.859	12.8	102.6
14	15 13C4-PFHpA	367.2 > 321.8	3.83	9846.519	22833.180	5.390	12.1	96.5
15	16 18O2-PFHxS	403 > 102.6	3.95	5345.016	11507.772	5.806	13.3	106.4
16	17 13C2-PFOA	414.9 > 369.7	4.24	20217.510	5910.544	42.757	11.5	92.1
17	18 13C5-PFNA	468.2 > 422.9	4.58	8304.900	8900.862	11.663	13.2	105.3
18	20 13C8-PFOS	507.0 > 79.9	4.65	8818.954	9679.986	11.388	12.1	96.6
19	21 13C4-PFBA	216.9 > 171.8	1.69	22845.137	22845.137	12.500	12.5	100.0
20	22 13C5-PFHxA	318>272.9	3.32	22833.180	22833.180	12.500	12.5	100.0
21	23 13C3-PFHxS	401.9 > 79.9	3.95	11507.772	11507.772	12.500	12.5	100.0
22	24 13C8-PFOA	421.3 > 376	4.24	5910.544	5910.544	12.500	12.5	100.0
23	25 13C9-PFNA	472.2 > 426.9	4.58	8900.862	8900.862	12.500	12.5	100.0
24	26 13C4-PFOS	503.0 > 79.9	4.65	9679.986	9679.986	12.500	12.5	100.0

70-130  
↓  
50-150  
↓

see 9/29/17



Dataset: Untitled

Last Altered: Friday, September 29, 2017 12:22:28 Pacific Daylight Time

Printed: Friday, September 29, 2017 12:29:29 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	170928G2_1	IPA	28-Sep-17	17:16:46
2	170928G2_2	ST170928G2-1 PFC CS3 17I2819	28-Sep-17	17:29:07
3	170928G2_3	IPA	28-Sep-17	17:41:40
4	170928G2_4	1701277-01 OW2E-MW09R-0917 0.11883	28-Sep-17	17:54:16
5	170928G2_5	1701277-02 OW2C-MW05-0917 0.11734	28-Sep-17	18:06:53
6	170928G2_6	1701277-03 OW2C-MW05P-0917 0.10421	28-Sep-17	18:19:19
7	170928G2_7	1701277-04 OW2C-MW25-0917 0.10208	28-Sep-17	18:31:52
8	170928G2_8	IPA	28-Sep-17	18:44:26
9	170928G2_9	1701277-05 OW2C-MW19-0917 0.10774	28-Sep-17	18:56:59
10	170928G2_10	1701277-06 OW2C-MW24-0917 0.10943	28-Sep-17	19:09:33
11	170928G2_11	IPA	28-Sep-17	19:22:05
12	170928G2_12	B7I0112-MS1 Matrix Spike 0.1171	28-Sep-17	19:34:37
13	170928G2_13	B7I0112-MSD1 Matrix Spike Dup 0.11523	28-Sep-17	19:47:12
14	170928G2_14	IPA	28-Sep-17	19:59:40
15	170928G2_15	1701277-07 OW2C-EB-0917 0.11692	28-Sep-17	20:12:16
16	170928G2_16	1701277-08 OW2C-FB-0917 0.11728	28-Sep-17	20:24:46
17	170928G2_17	IPA	28-Sep-17	20:37:28
18	170928G2_18	1701277-06@10X OW2C-MW24-0917 0.10943	28-Sep-17	20:50:04
19	170928G2_19	B7I0112-MS1@10X Matrix Spike 0.1171	28-Sep-17	21:02:36
20	170928G2_20	B7I0112-MSD1@10X Matrix Spike Dup 0.11523	28-Sep-17	21:15:10
21	170928G2_21	1701277-04@10X OW2C-MW25-0917 0.10208	28-Sep-17	21:27:44
22	170928G2_22	IPA	28-Sep-17	21:40:17
23	170928G2_23	ST170928G2-2 PFC CS3 17I2819	28-Sep-17	21:52:49
24	170928G2_24	IPA	28-Sep-17	22:05:19
25	170928G2_25	B7I0147-BS1 OPR 0.125	28-Sep-17	22:17:55
26	170928G2_26	B7I0141-BS1 OPR 1	28-Sep-17	22:30:27
27	170928G2_27	IPA	28-Sep-17	22:43:01
28	170928G2_28	B7I0147-BLK1 Method Blank 0.125	28-Sep-17	22:55:37
29	170928G2_29	B7I0141-BLK1 Method Blank 1	28-Sep-17	23:08:06
30	170928G2_30	1701265-44 S-SED-110 1	28-Sep-17	23:20:40
31	170928G2_31	1701265-45 S-SED-LR 1	28-Sep-17	23:33:13

Ⓐ NOT USED. NEEDS ISC.

LA 9/21/17

Dataset: Untitled

Last Altered: Friday, September 29, 2017 12:22:28 Pacific Daylight Time

Printed: Friday, September 29, 2017 12:29:25 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170928G2_32	<sup>Ⓐ</sup> <del>1701265-46 S-SED-4 1</del>	28-Sep-17	23:45:47
33	170928G2_33	1701265-47 S-SED-BB2 1	28-Sep-17	23:58:20
34	170928G2_34	1701265-48 S-SED-BB4 1	29-Sep-17	00:10:53
35	170928G2_35	1701283-01 Middletown Sludge 1 1	29-Sep-17	00:23:25
36	170928G2_36	1701283-02 Middletown Sludge 2 1	29-Sep-17	00:35:56
37	170928G2_37	1701283-03 Middletown Sludge 3 1	29-Sep-17	00:48:33
38	170928G2_38	<sup>Ⓐ</sup> <del>1701277-04RE1-OW20-MW25-0917-0-10208</del>	29-Sep-17	01:01:02
39	170928G2_39	IPA	29-Sep-17	01:13:34
40	170928G2_40	ST170928G2-3 PFC CS3 17I2819	29-Sep-17	01:26:09
41	170928G2_41	IPA	29-Sep-17	01:38:39
42	170928G2_42	B7I0146-BS1 OPR 0.125	29-Sep-17	01:51:15
43	170928G2_43	IPA	29-Sep-17	02:03:46
44	170928G2_44	B7I0146-BLK1 Method Blank 0.125	29-Sep-17	02:16:22
45	170928G2_45	1701306-01 UET-1 0.125	29-Sep-17	02:28:54
46	170928G2_46	1701306-02 UET-2 0.125	29-Sep-17	02:41:32
47	170928G2_47	1701306-03 UET-3 0.125	29-Sep-17	02:54:10
48	170928G2_48	1701306-04 Trip Blank 0.125	29-Sep-17	03:06:39
49	170928G2_49	1701307-01 PZ-2 0.125	29-Sep-17	03:19:12
50	170928G2_50	1701307-02 PZ-7 0.125	29-Sep-17	03:31:45
51	170928G2_51	1701307-03 PZ-8 0.125	29-Sep-17	03:44:18
52	170928G2_52	1701308-01 6 Random Rd 0.125	29-Sep-17	03:56:51
53	170928G2_53	1701308-02 296 Lafayette Rd 0.125	29-Sep-17	04:09:25
54	170928G2_54	1701309-01 MW-1 0.125	29-Sep-17	04:21:58
55	170928G2_55	1701309-02 MW-3 0.125	29-Sep-17	04:34:32
56	170928G2_56	IPA	29-Sep-17	04:47:01
57	170928G2_57	ST170928G2-4 PFC CS3 17I2819	29-Sep-17	04:59:36
58	170928G2_58	IPA	29-Sep-17	05:12:07
59	170928G2_59	1701309-03 MW-6 0.125	29-Sep-17	05:24:43
60	170928G2_60	1701309-04 MW-101 0.125	29-Sep-17	05:37:12
61	170928G2_61	1701309-05 MW-102 0.125	29-Sep-17	05:49:46
62	170928G2_62	1701309-06 TW 15-74 0.125	29-Sep-17	06:02:19
63	170928G2_63	1701309-07 Trip Blank 0.125	29-Sep-17	06:14:52
64	170928G2_64	IPA	29-Sep-17	06:27:33
65	170928G2_65	ST170928G2-5 PFC CS3 17I2819	29-Sep-17	06:40:02

<sup>Ⓐ</sup> NOT USED. NEEDS ISC. CA 9129117

Dataset: Untitled

Last Altered: Friday, September 29, 2017 12:22:28 Pacific Daylight Time

Printed: Friday, September 29, 2017 12:29:29 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	170928G2_66	IPA	29-Sep-17	06:52:37

Dataset: U:\G1.PRO\Results\2017\170928G2\170928G2-23.qld

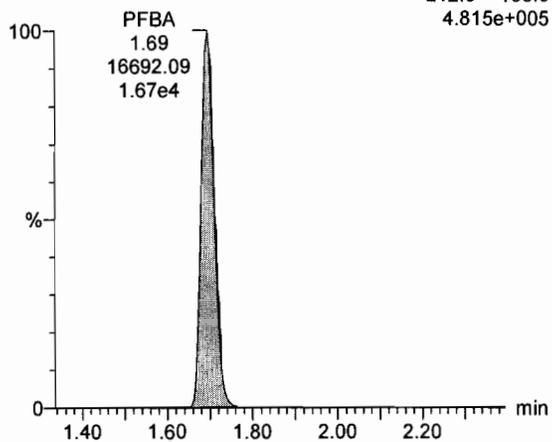
Last Altered: Friday, September 29, 2017 12:47:08 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:47:46 Pacific Daylight Time

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: 170928G2\_23, Date: 28-Sep-2017, Time: 21:52:49, ID: ST170928G2-2 PFC CS3 17I2819, Description: PFC CS3 17I2819

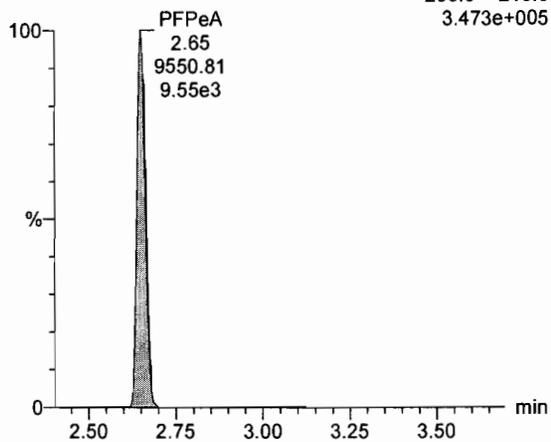
**PFBA**

170928G2\_23 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
4.815e+005



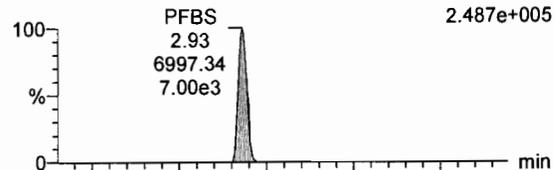
**PFPeA**

170928G2\_23 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
3.473e+005

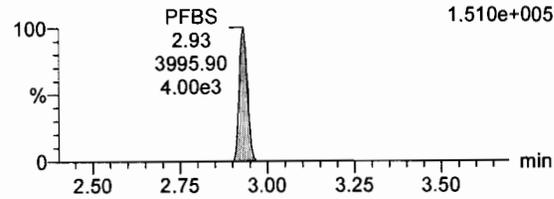


**PFBS**

170928G2\_23 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
2.487e+005

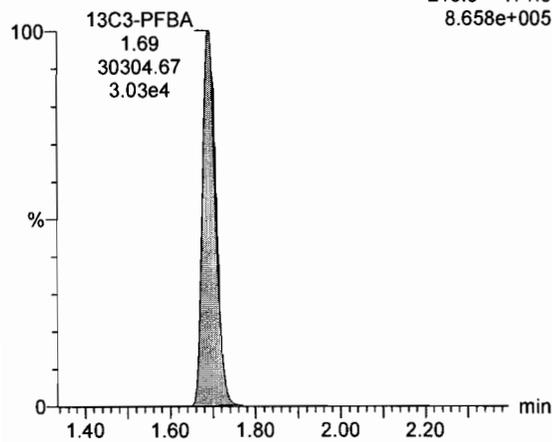


170928G2\_23 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
1.510e+005



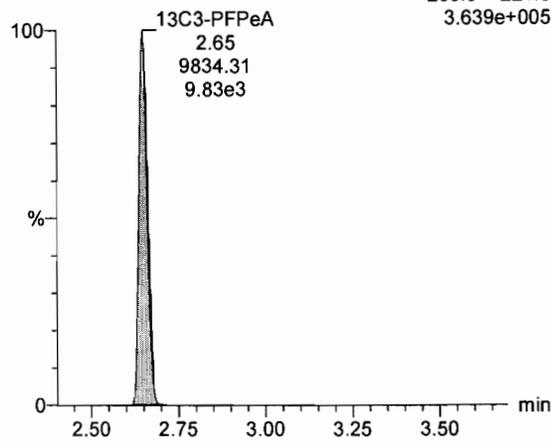
**13C3-PFBA**

170928G2\_23 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
8.658e+005



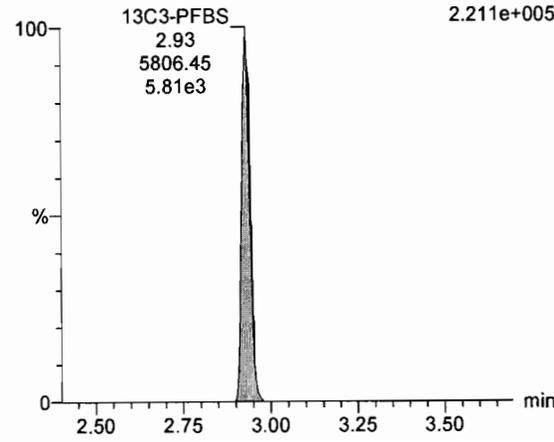
**13C3-PFPeA**

170928G2\_23 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
3.639e+005



**13C3-PFBS**

170928G2\_23 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
2.211e+005

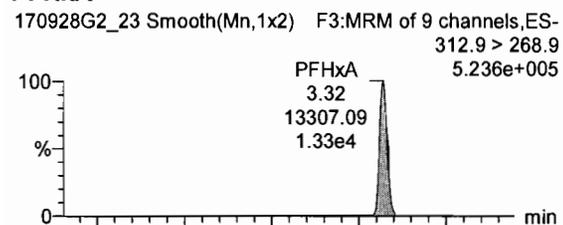


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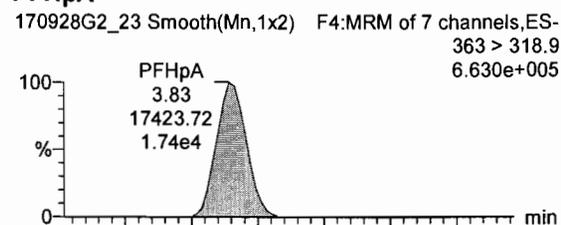
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Printed: Friday, September 29, 2017 12:47:46 Pacific Daylight Time

Name: 170928G2\_23, Date: 28-Sep-2017, Time: 21:52:49, ID: ST170928G2-2 PFC CS3 17I2819, Description: PFC CS3 17I2819

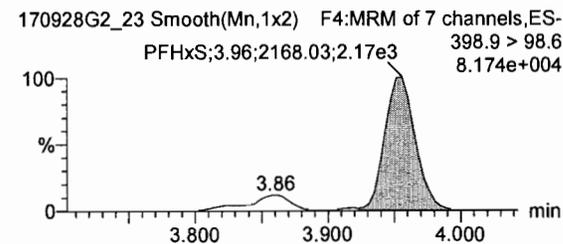
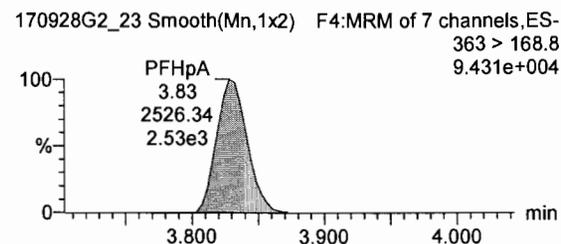
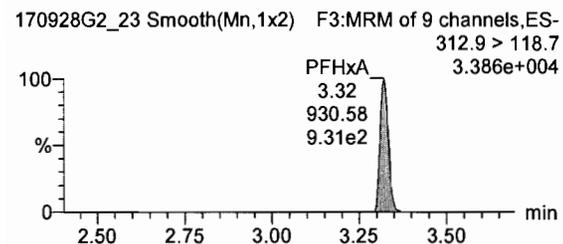
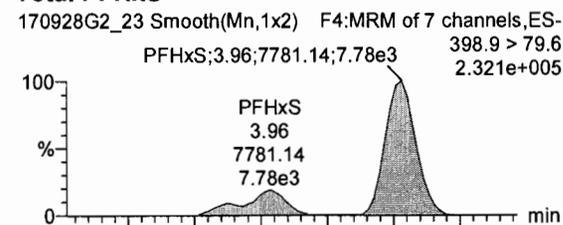
**PFHxA**



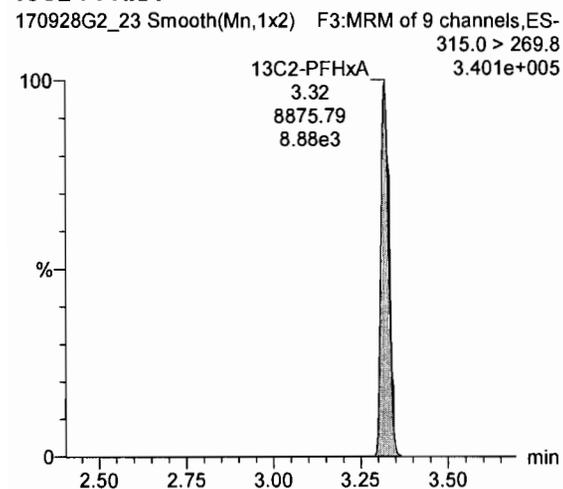
**PFHpA**



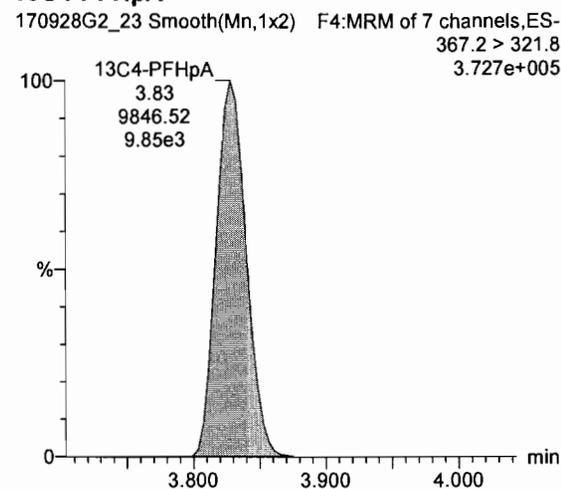
**Total PFHxS**



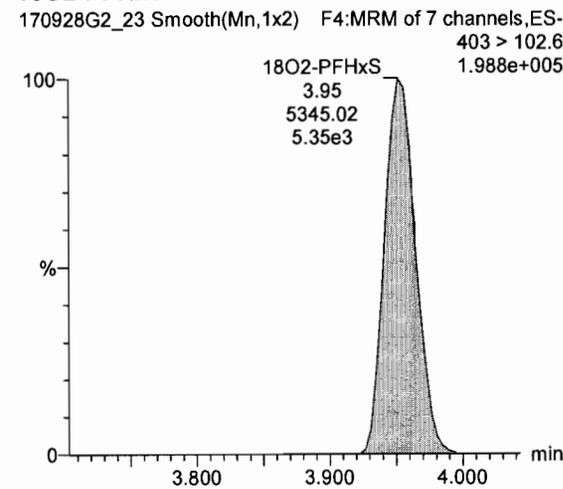
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



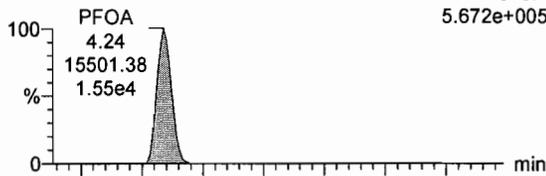
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Last Altered: Friday, September 29, 2017 12:47:08 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:47:46 Pacific Daylight Time

Name: 170928G2\_23, Date: 28-Sep-2017, Time: 21:52:49, ID: ST170928G2-2 PFC CS3 1712819, Description: PFC CS3 1712819

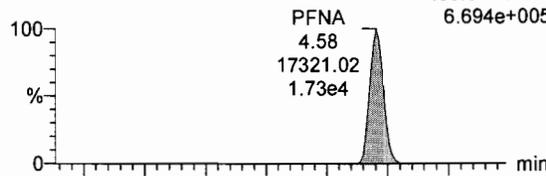
**Total PFOA**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7  
5.672e+005



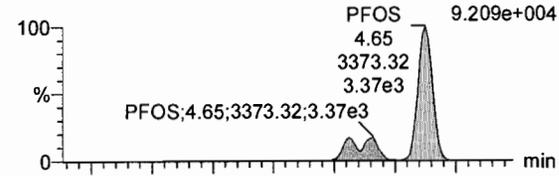
**PFNA**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8  
6.694e+005

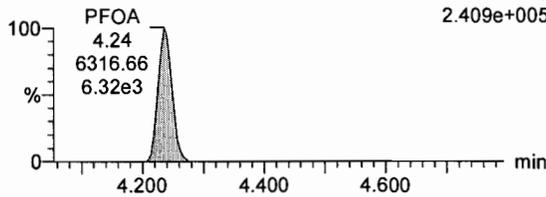


**Total PFOS**

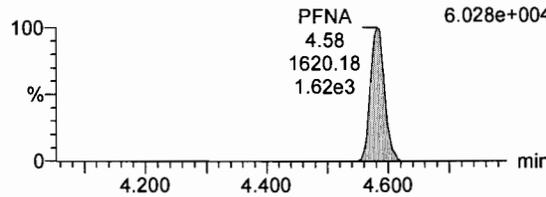
170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9  
9.209e+004



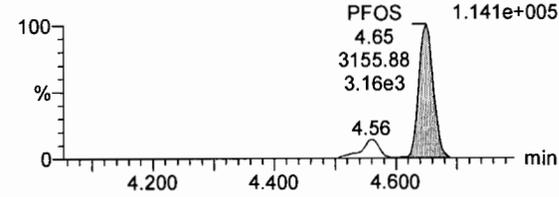
170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8  
2.409e+005



170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0  
6.028e+004

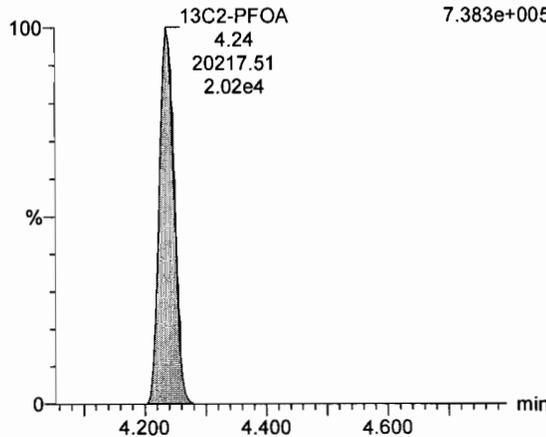


170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8  
1.141e+005



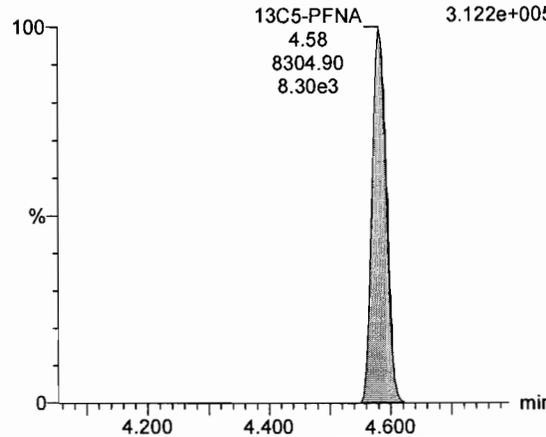
**13C2-PFOA**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7  
7.383e+005



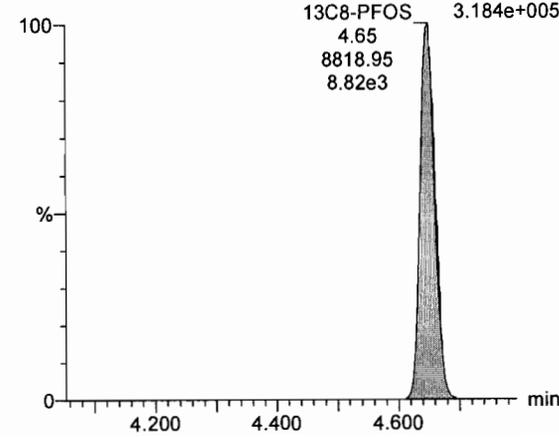
**13C5-PFNA**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9  
3.122e+005



**13C8-PFOS**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9  
3.184e+005



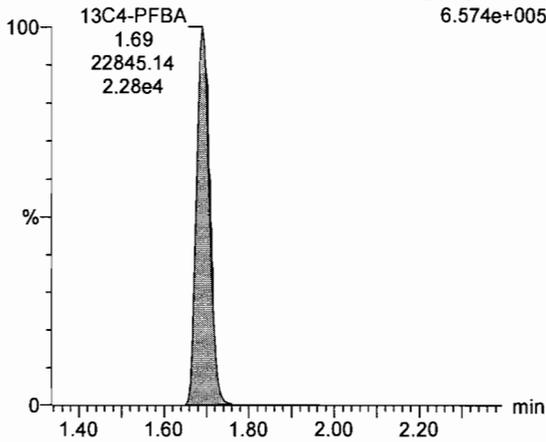
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Last Altered: Friday, September 29, 2017 12:47:08 Pacific Daylight Time  
Printed: Friday, September 29, 2017 12:47:46 Pacific Daylight Time

Name: 170928G2\_23, Date: 28-Sep-2017, Time: 21:52:49, ID: ST170928G2-2 PFC CS3 1712819, Description: PFC CS3 1712819

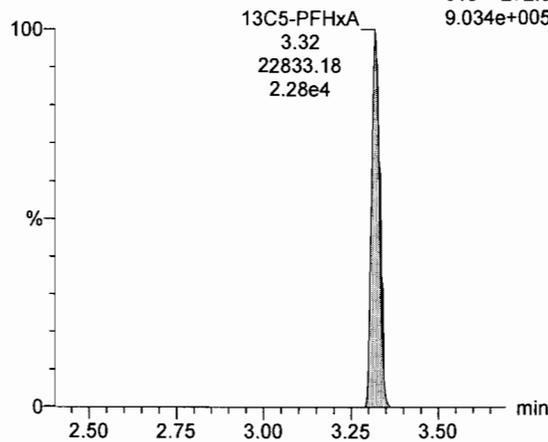
**13C4-PFBA**

170928G2\_23 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
6.574e+005



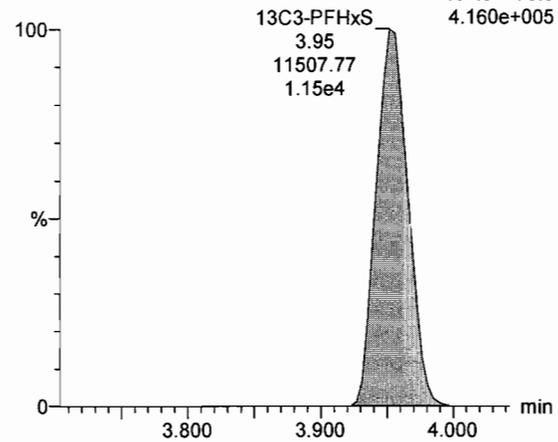
**13C5-PFHxA**

170928G2\_23 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
9.034e+005



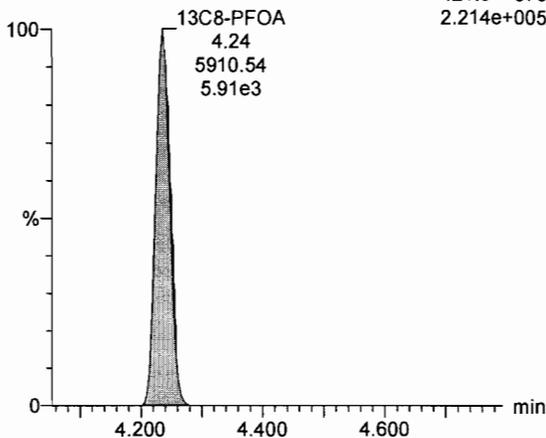
**13C3-PFHxS**

170928G2\_23 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.160e+005



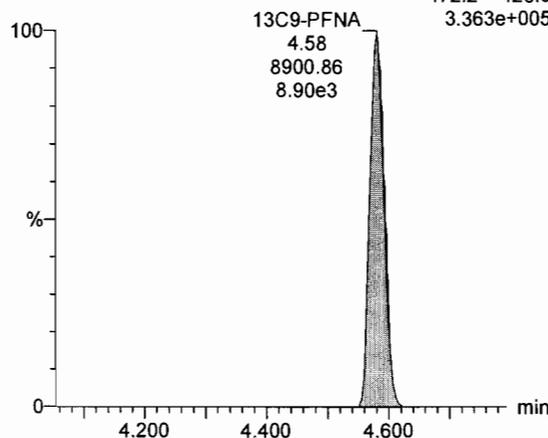
**13C8-PFOA**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
2.214e+005



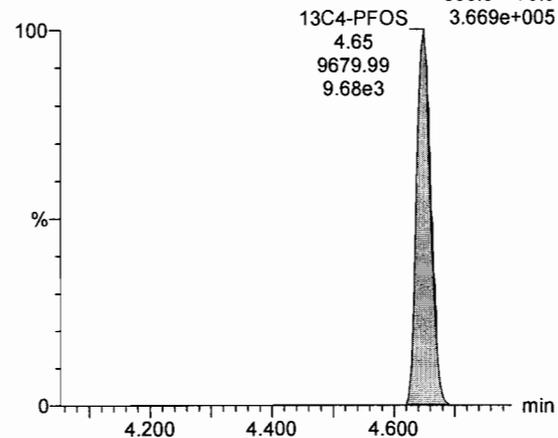
**13C9-PFNA**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
3.363e+005



**13C4-PFOS**

170928G2\_23 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
3.669e+005



Dataset: Untitled

Last Altered: Monday, October 02, 2017 15:44:39 Pacific Daylight Time

Printed: Monday, October 02, 2017 15:44:56 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_RS AREAS\_0809.mdb 19 Sep 2017 08:51:05

Calibration: 02 Oct 2017 15:44:39

Name: 170929G3\_2, Date: 29-Sep-2017, Time: 13:30:50, ID: ST170929G3-1 PFC CS0 1712905, Description: PFC CS0 1712905

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	4940.555	4940.555	NO	12.5	100.0
2	2 13C4-PFBA	216.9 > 171.8	1.75	18048.547	18048.547	NO	12.5	100.0
3	3 13C5-PFHxA	318.0 > 272.9	3.34	17021.580	17021.580	NO	12.5	100.0
4	4 13C3-PFHxS	401.9 > 79.9	3.97	9321.471	9321.471	NO	12.5	100.0
5	5 13C8-PFOA	421.3 > 376	4.25	5005.974	5005.974	NO	12.5	100.0
6	6 13C4-PFOS	503.0 > 79.9	4.66	5902.597	5902.597	NO	12.5	100.0
7	7 13C9-PFNA	472.2 > 426.9	4.60	5370.599	5370.599	NO	12.5	100.0
8	8 13C6-PFDA	519.1 > 473.7	4.90	4516.984	4516.984	NO	12.5	100.0

Name: 170929G3\_3, Date: 29-Sep-2017, Time: 13:43:26, 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: 170929G3\_4, Date: 29-Sep-2017, Time: 13:56:00, ID: B710147-BS1 OPR 0.125, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	8141.821	8141.821	NO	164.8	82.4
2	2 13C4-PFBA	216.9 > 171.8	1.68	26380.406	26380.406	NO	146.2	73.1
3	3 13C5-PFHxA	318.0 > 272.9	3.34	27282.680	27282.680	NO	160.3	80.1
4	4 13C3-PFHxS	401.9 > 79.9	3.97	13849.507	13849.507	NO	148.6	74.3
5	5 13C8-PFOA	421.3 > 376	4.25	8271.646	8271.646	NO	165.2	82.6
6	6 13C4-PFOS	503.0 > 79.9	4.66	6983.498	6983.498	NO	118.3	59.2
7	7 13C9-PFNA	472.2 > 426.9	4.59	9272.436	9272.436	NO	172.7	86.3
8	8 13C6-PFDA	519.1 > 473.7	4.90	4552.611	4552.611	NO	100.8	50.4

Name: 170929G3\_5, Date: 29-Sep-2017, Time: 14:08:30, ID: B710141-BS1 OPR 1, Description: OPR

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3711.460	3711.460	NO	9.4	75.1
2	2 13C4-PFBA	216.9 > 171.8	1.67	10493.388	10493.388	NO	7.3	58.1
3	3 13C5-PFHxA	318.0 > 272.9	3.34	12107.177	12107.177	NO	8.9	71.1
4	4 13C3-PFHxS	401.9 > 79.9	3.97	6570.811	6570.811	NO	8.8	70.5
5	5 13C8-PFOA	421.3 > 376	4.25	3750.141	3750.141	NO	9.4	74.9
6	6 13C4-PFOS	503.0 > 79.9	4.66	3478.836	3478.836	NO	7.4	58.9
7	7 13C9-PFNA	472.2 > 426.9	4.59	3988.665	3988.665	NO	9.3	74.3
8	8 13C6-PFDA	519.1 > 473.7	4.89	2015.542	2015.542	YES	5.6	44.6



Dataset: Untitled

Last Altered: Monday, October 02, 2017 15:44:39 Pacific Daylight Time

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**Name: 170929G3\_6, Date: 29-Sep-2017, Time: 14:21:04, 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: 170929G3\_7, Date: 29-Sep-2017, Time: 14:38:05, ID: B710147-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	8272.314	8272.314	NO	167.4	83.7
2	2 13C4-PFBA	216.9 > 171.8	1.80	28388.781	28388.781	NO	157.3	78.6
3	3 13C5-PFHxA	318.0 > 272.9	3.33	27965.992	27965.992	NO	164.3	82.1
4	4 13C3-PFHxS	401.9 > 79.9	3.97	17183.215	17183.215	NO	184.3	92.2
5	5 13C8-PFOA	421.3 > 376	4.25	9265.218	9265.218	NO	185.1	92.5
6	6 13C4-PFOS	503.0 > 79.9	4.66	12440.512	12440.512	NO	210.8	105.4
7	7 13C9-PFNA	472.2 > 426.9	4.59	12223.761	12223.761	NO	227.6	113.8
8	8 13C6-PFDA	519.1 > 473.7	4.89	10422.207	10422.207	NO	230.7	115.4

**Name: 170929G3\_8, Date: 29-Sep-2017, Time: 14:50:16, ID: B710141-BLK1 Method Blank 1, Description: Method Blank**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3225.537	3225.537	NO	8.2	65.3
2	2 13C4-PFBA	216.9 > 171.8	1.67	8619.788	8619.788	YES	6.0	47.8
3	3 13C5-PFHxA	318.0 > 272.9	3.34	9425.133	9425.133	NO	6.9	55.4
4	4 13C3-PFHxS	401.9 > 79.9	3.97	6616.603	6616.603	NO	8.9	71.0
5	5 13C8-PFOA	421.3 > 376	4.25	3139.949	3139.949	NO	7.8	62.7
6	6 13C4-PFOS	503.0 > 79.9	4.66	3389.625	3389.625	NO	7.2	57.4
7	7 13C9-PFNA	472.2 > 426.9	4.59	3048.653	3048.653	NO	7.1	56.8
8	8 13C6-PFDA	519.1 > 473.7	4.89	2031.289	2031.289	YES	5.6	45.0

**Name: 170929G3\_9, Date: 29-Sep-2017, Time: 15:05:37, ID: 1701265-44 S-SED-110 1, Description: S-SED-110**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.95	3456.390	3456.390	NO	8.7	70.0
2	2 13C4-PFBA	216.9 > 171.8	1.77	10629.385	10629.385	NO	7.4	58.9
3	3 13C5-PFHxA	318.0 > 272.9	3.33	10398.592	10398.592	NO	7.6	61.1
4	4 13C3-PFHxS	401.9 > 79.9	3.97	9629.255	9629.255	NO	12.9	103.3
5	5 13C8-PFOA	421.3 > 376	4.25	4069.356	4069.356	NO	10.2	81.3
6	6 13C4-PFOS	503.0 > 79.9	4.66	5335.728	5335.728	NO	11.3	90.4
7	7 13C9-PFNA	472.2 > 426.9	4.59	4627.609	4627.609	NO	10.8	86.2
8	8 13C6-PFDA	519.1 > 473.7	4.89	3056.074	3056.074	NO	8.5	67.7

Dataset: Untitled

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**Name: 170929G3\_10, Date: 29-Sep-2017, Time: 15:18:14, ID: 1701265-45 S-SED-LR 1, Description: S-SED-LR**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	4000.281	4000.281	NO	10.1	81.0
2	2 13C4-PFBA	216.9 > 171.8	1.66	9920.047	9920.047	NO	6.9	55.0
3	3 13C5-PFHxA	318.0 > 272.9	3.34	11558.344	11558.344	NO	8.5	67.9
4	4 13C3-PFHxS	401.9 > 79.9	3.97	8666.147	8666.147	NO	11.6	93.0
5	5 13C8-PFOA	421.3 > 376	4.25	2527.902	2527.902	NO	6.3	50.5
6	6 13C4-PFOS	503.0 > 79.9	4.66	1462.117	1462.117	YES	3.1	24.8
7	7 13C9-PFNA	472.2 > 426.9	4.59	1433.103	1433.103	YES	3.3	26.7
8	8 13C6-PFDA	519.1 > 473.7	4.89	742.668	742.668	YES	2.1	16.4

**Name: 170929G3\_11, Date: 29-Sep-2017, Time: 15:37:44, ID: 1701265-46 S-SED-4 1, Description: S-SED-4**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3256.487	3256.487	NO	8.2	65.9
2	2 13C4-PFBA	216.9 > 171.8	1.78	10465.896	10465.896	NO	7.2	58.0
3	3 13C5-PFHxA	318.0 > 272.9	3.34	10680.336	10680.336	NO	7.8	62.7
4	4 13C3-PFHxS	401.9 > 79.9	3.98	7430.766	7430.766	NO	10.0	79.7
5	5 13C8-PFOA	421.3 > 376	4.26	2310.837	2310.837	YES	5.8	46.2
6	6 13C4-PFOS	503.0 > 79.9	4.67	1431.101	1431.101	YES	3.0	24.2
7	7 13C9-PFNA	472.2 > 426.9	4.60	1721.578	1721.578	YES	4.0	32.1
8	8 13C6-PFDA	519.1 > 473.7	4.90	795.798	795.798	YES	2.2	17.6

**Name: 170929G3\_12, Date: 29-Sep-2017, Time: 15:49:58, ID: 1701265-47 S-SED-BB2 1, Description: S-SED-BB2**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3591.980	3591.980	NO	9.1	72.7
2	2 13C4-PFBA	216.9 > 171.8	1.66	9030.294	9030.294	NO	6.3	50.0
3	3 13C5-PFHxA	318.0 > 272.9	3.34	10883.478	10883.478	NO	8.0	63.9
4	4 13C3-PFHxS	401.9 > 79.9	3.97	9772.734	9772.734	NO	13.1	104.8
5	5 13C8-PFOA	421.3 > 376	4.25	3776.565	3776.565	NO	9.4	75.4
6	6 13C4-PFOS	503.0 > 79.9	4.66	5473.308	5473.308	NO	11.6	92.7
7	7 13C9-PFNA	472.2 > 426.9	4.59	4084.263	4084.263	NO	9.5	76.0
8	8 13C6-PFDA	519.1 > 473.7	4.89	2969.759	2969.759	NO	8.2	65.7

**Name: 170929G3\_13, Date: 29-Sep-2017, Time: 16:02:30, ID: 1701265-48 S-SED-BB1 1, Description: S-SED-BB1**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	3787.145	3787.145	NO	9.6	76.7
2	2 13C4-PFBA	216.9 > 171.8	1.67	9868.781	9868.781	NO	6.8	54.7
3	3 13C5-PFHxA	318.0 > 272.9	3.34	11788.282	11788.282	NO	8.7	69.3
4	4 13C3-PFHxS	401.9 > 79.9	3.97	5372.230	5372.230	NO	7.2	57.6
5	5 13C8-PFOA	421.3 > 376	4.25	1942.952	1942.952	YES	4.9	38.8
6	6 13C4-PFOS	503.0 > 79.9	4.66	986.088	986.088	YES	2.1	16.7
7	7 13C9-PFNA	472.2 > 426.9	4.59	868.039	868.039	YES	2.0	16.2
8	8 13C6-PFDA	519.1 > 473.7	4.89	371.308	371.308	YES	1.0	8.2

Dataset: Untitled

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**Name: 170929G3\_14, Date: 29-Sep-2017, Time: 16:15:00, ID: 1701277-04RE1 OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.96	7389.181	7389.181	NO	17976.2	74.8
2	2 13C4-PFBA	216.9 > 171.8	1.69	27499.201	27499.201	NO	18312.8	76.2
3	3 13C5-PFHxA	318.0 > 272.9	3.34	28130.291	28130.291	NO	19863.3	82.6
4	4 13C3-PFHxS	401.9 > 79.9	3.97	14259.495	14259.495	NO	18386.4	76.5
5	5 13C8-PFOA	421.3 > 376	4.25	8081.301	8081.301	NO	19403.0	80.7
6	6 13C4-PFOS	503.0 > 79.9	4.66	5669.049	5669.049	YES	11543.7	48.0
7	7 13C9-PFNA	472.2 > 426.9	4.59	8542.096	8542.096	NO	19116.9	79.5
8	8 13C6-PFDA	519.1 > 473.7	4.89	4228.388	4228.388	YES	11251.3	46.8

**Name: 170929G3\_15, Date: 29-Sep-2017, Time: 16:27:35, 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: 170929G3\_16, Date: 29-Sep-2017, Time: 16:40:07, ID: 1701277-04@10X OW2C-MW25-0917 0.10208, Description: OW2C-MW25-0917**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.98	195.922	195.922	YES	4.9	4.0
2	2 13C4-PFBA	216.9 > 171.8	1.78	546.842	546.842	YES	3.7	3.0
3	3 13C5-PFHxA	318.0 > 272.9	3.35	619.576	619.576	YES	4.5	3.6
4	4 13C3-PFHxS	401.9 > 79.9	3.98	173.410	173.410	YES	2.3	1.9
5	5 13C8-PFOA	421.3 > 376	4.25	62.201	62.201	YES	1.5	1.2
6	6 13C4-PFOS	503.0 > 79.9				NO		
7	7 13C9-PFNA	472.2 > 426.9	4.59	34.490	34.490	YES	0.8	0.6
8	8 13C6-PFDA	519.1 > 473.7				NO		

**Name: 170929G3\_17, Date: 29-Sep-2017, Time: 16:52:38, 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: Untitled

Last Altered: Monday, October 02, 2017 15:44:39 Pacific Daylight Time

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**Name: 170929G3\_18, Date: 29-Sep-2017, Time: 17:05:12, ID: ST170929G3-2 PFC CS4 1712628, Description: PFC CS4 1712628**

	# Name	Trace	RT	Area	Response	Recovery Flag	Conc.	%Rec
1	1 13C3-PFBS	302.0 > 98.8	2.90	5943.986	5943.986	NO	15.0	120.3
2	2 13C4-PFBA	216.9 > 171.8	1.72	23179.596	23179.596	NO	16.1	128.4
3	3 13C5-PFHxA	318.0 > 272.9	3.28	23417.316	23417.316	NO	17.2	137.6
4	4 13C3-PFHxS	401.9 > 79.9	3.91	13295.021	13295.021	NO	17.8	142.6
5	5 13C8-PFOA	421.3 > 376	4.18	7802.654	7802.654	YES	19.5	155.9
6	6 13C4-PFOS	503.0 > 79.9	4.59	8746.366	8746.366	NO	18.5	148.2
7	7 13C9-PFNA	472.2 > 426.9	4.52	9877.578	9877.578	YES	23.0	183.9
8	8 13C6-PFDA	519.1 > 473.7	4.83	5996.736	5996.736	NO	16.6	132.8

Dataset: Untitled

Last Altered: Monday, October 02, 2017 11:21:01 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:21:05 Pacific Daylight Time

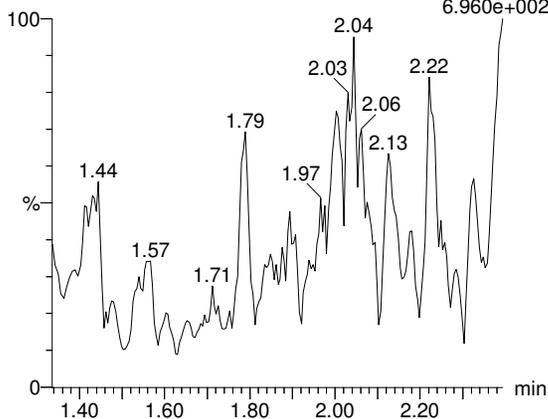
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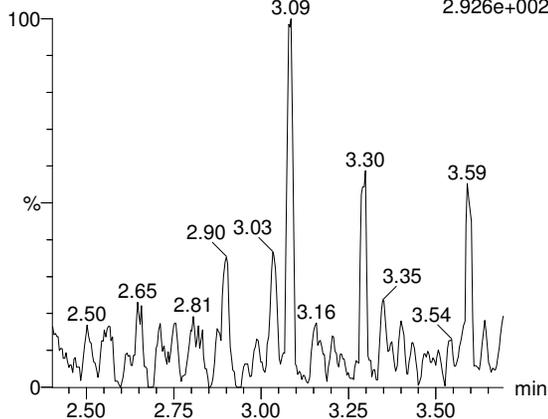
**PFBA**

170929G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 212.9 > 168.9 6.960e+002



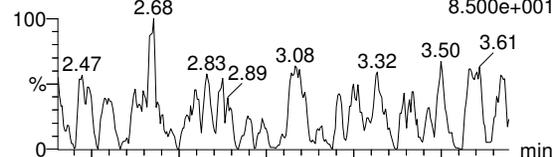
**PFPeA**

170929G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 263.0 > 218.8 2.926e+002

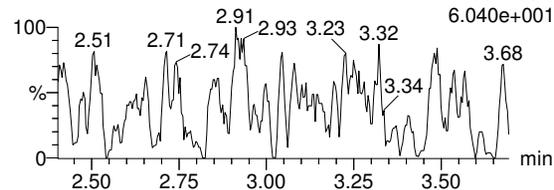


**PFBS**

170929G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299.0 > 79.7 8.500e+001

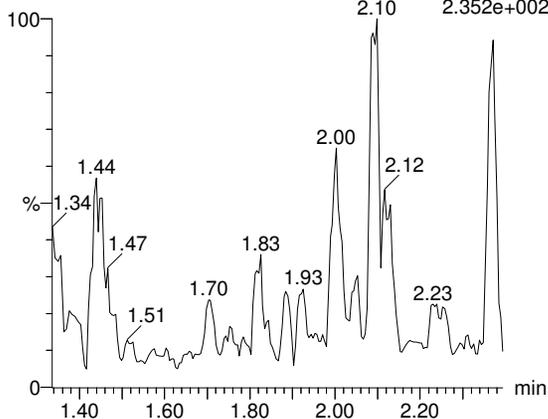


170929G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299 > 98.7 6.040e+001



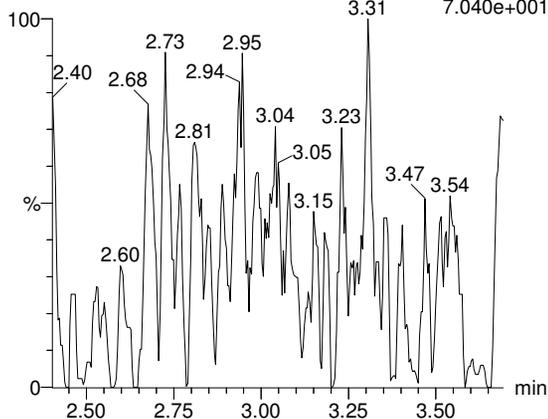
**13C3-PFBA**

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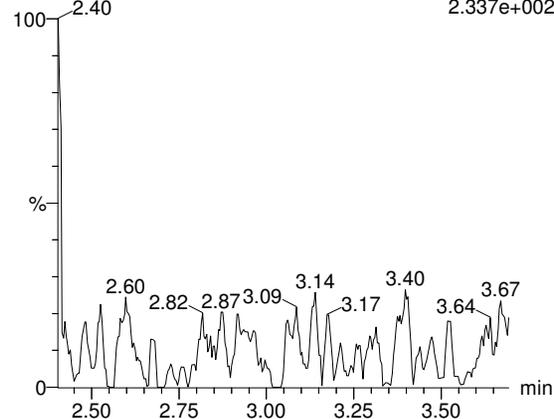
**13C3-PFPeA**

170929G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 266.0 > 221.8 7.040e+001



**13C3-PFBS**

170929G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 302.0 > 98.8 2.337e+002



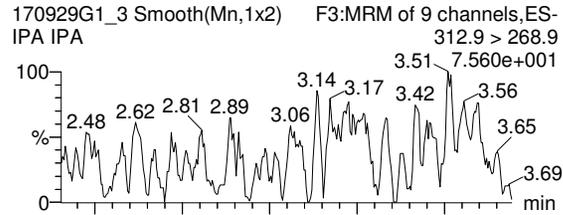
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Last Altered: Monday, October 02, 2017 11:21:01 Pacific Daylight Time

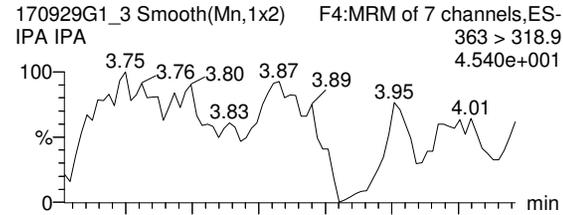
Printed: Monday, October 02, 2017 11:21:05 Pacific Daylight Time

Name: 170929G1\_3, Date: 29-Sep-2017, Time: 09:59:25, ID: IPA, Description: IPA

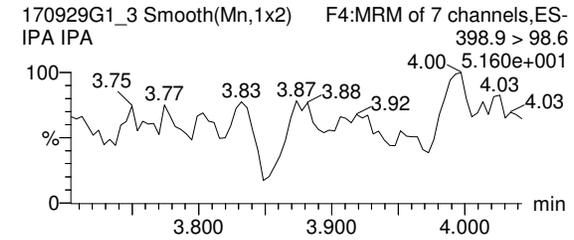
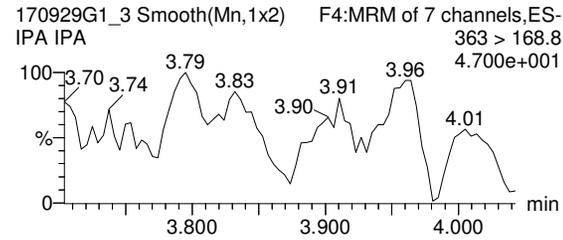
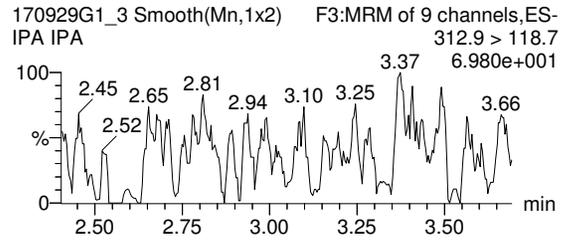
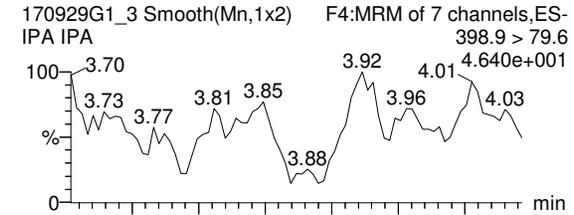
**PFHxA**



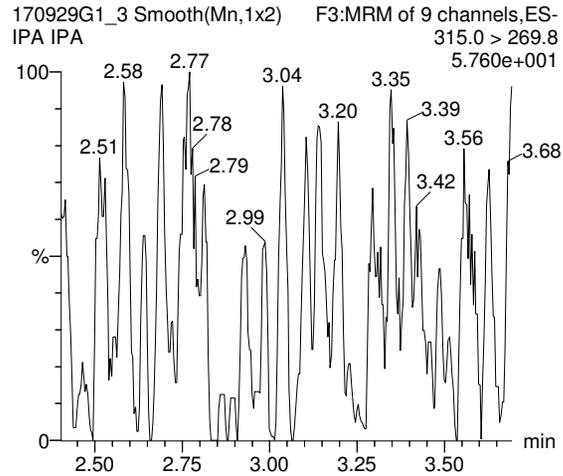
**PFHpA**



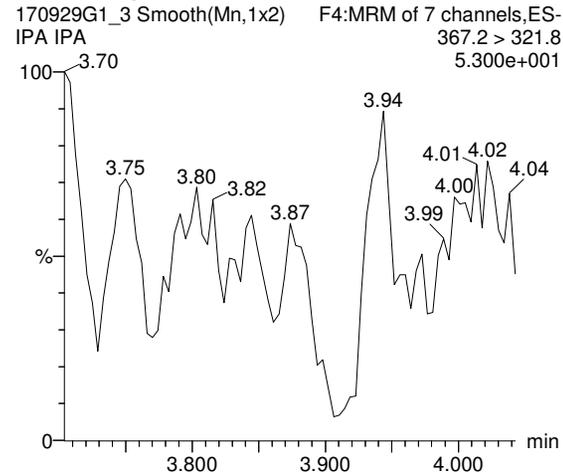
**Total PFHxS**



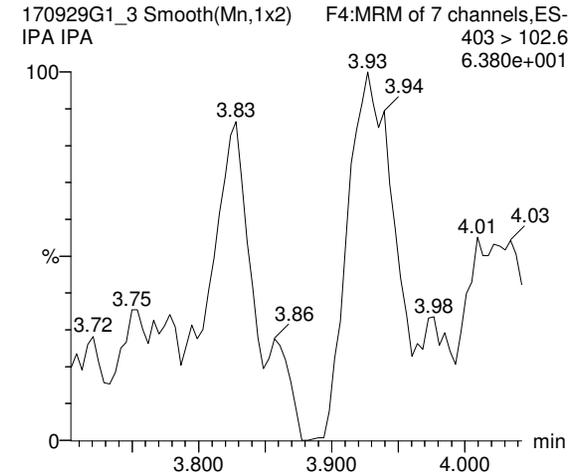
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: Untitled

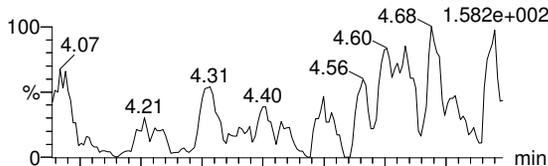
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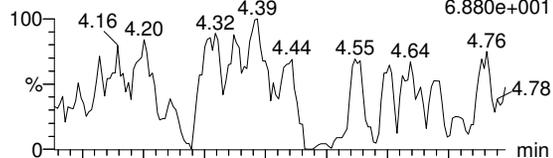
**Total PFOA**

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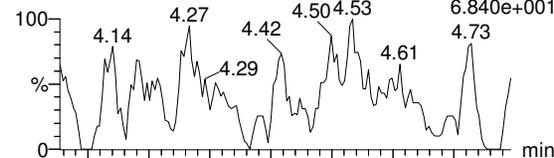
**PFNA**

170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 418.8 6.880e+001

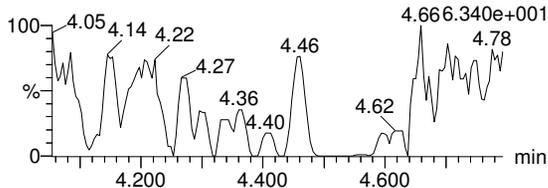


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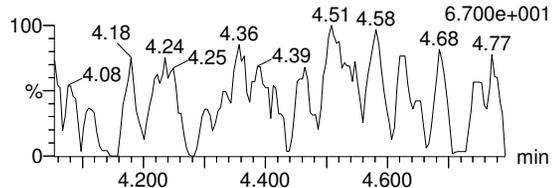
170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499.0 > 79.9 6.840e+001



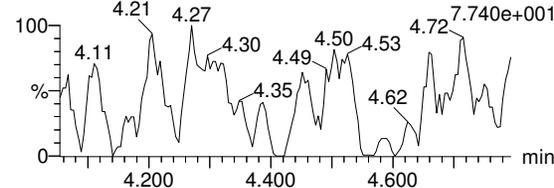
170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 168.8 4.666.340e+001



170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 219.0 6.700e+001

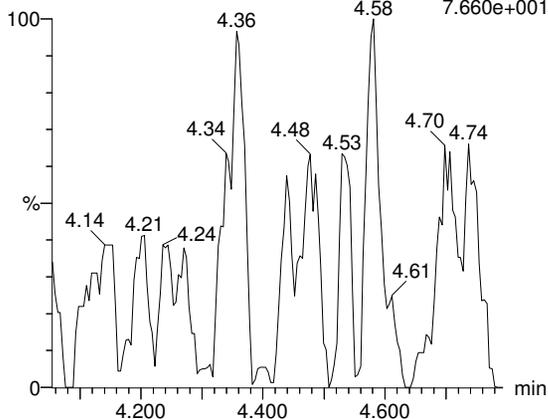


170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499 > 98.8 7.740e+001



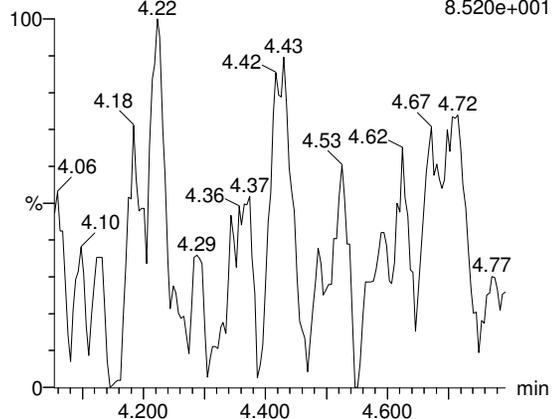
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170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 414.9 > 369.7 7.660e+001



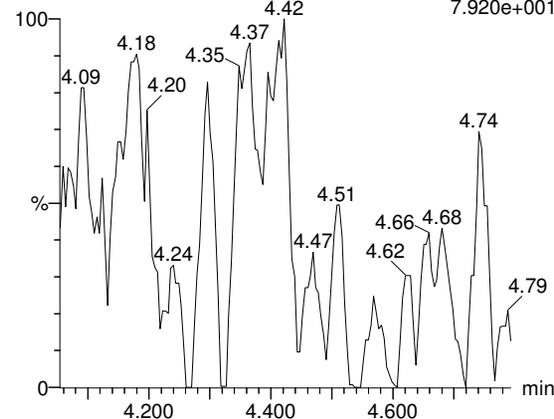
**13C5-PFNA**

170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 468.2 > 422.9 8.520e+001



**13C8-PFOS**

170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 507.0 > 79.9 7.920e+001



Dataset: Untitled

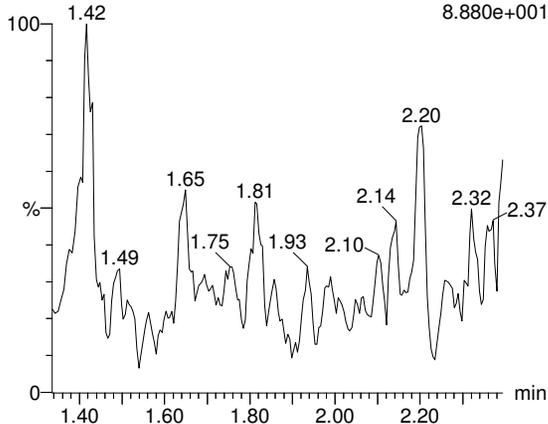
Last Altered: Monday, October 02, 2017 11:21:01 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:21:05 Pacific Daylight Time

Name: 170929G1\_3, Date: 29-Sep-2017, Time: 09:59:25, ID: IPA, Description: IPA

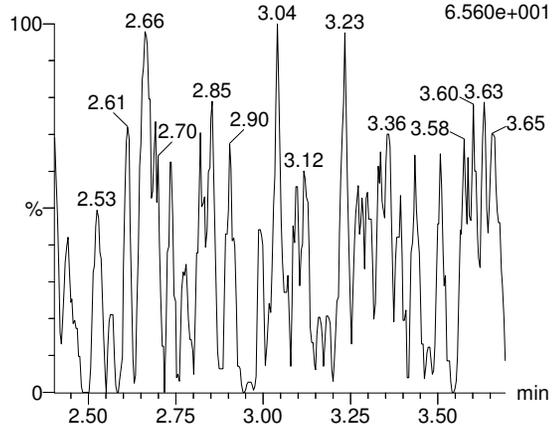
**13C4-PFBA**

170929G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
IPA IPA 216.9 > 171.8  
8.880e+001



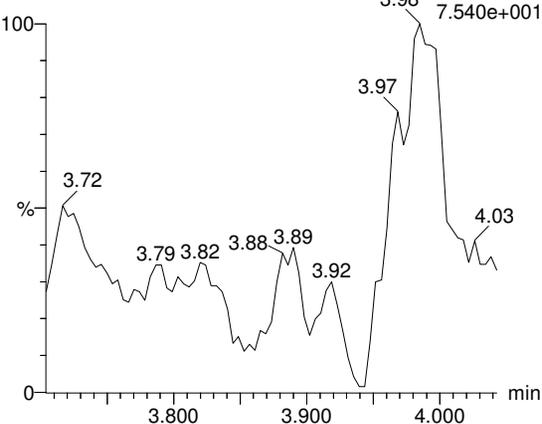
**13C5-PFHxA**

170929G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
IPA IPA 318 > 272.9  
6.560e+001



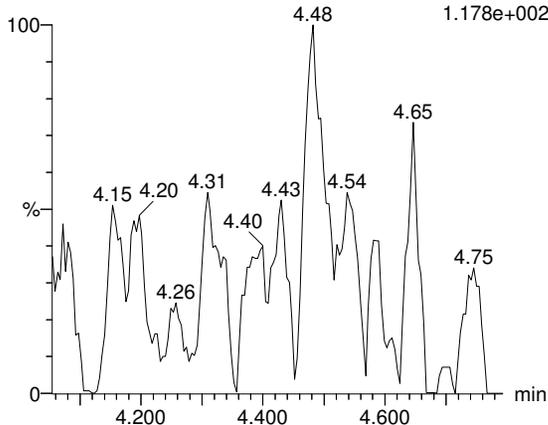
**13C3-PFHxS**

170929G1\_3 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
IPA IPA 401.9 > 79.9  
7.540e+001



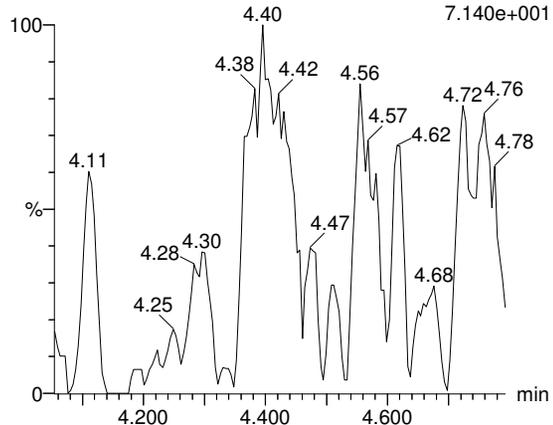
**13C8-PFOA**

170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
IPA IPA 421.3 > 376  
1.178e+002



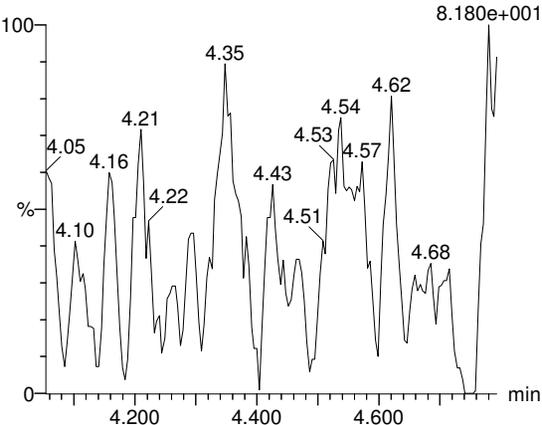
**13C9-PFNA**

170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
IPA IPA 472.2 > 426.9  
7.140e+001



**13C4-PFOS**

170929G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
IPA IPA 503.0 > 79.9  
8.180e+001





Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-2.qld

Last Altered: Monday, October 02, 2017 10:46:12 Pacific Daylight Time

Printed: Monday, October 02, 2017 10:54:56 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: 170929G3\_2, Date: 29-Sep-2017, Time: 13:30:50, ID: ST170929G3-1 PFC CS0 1712905, Description: PFC CS0 1712905

#	Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.76	1510.129	20255.469	0.932	1.3	128.5
2	2 PFPeA	263.0 > 218.8	2.69	741.554	7876.217	1.177	1.0	95.6
3	3 PFBS	299.0 > 79.7	2.97	640.010	4940.555	1.619	0.9	94.8
4	4 PFHxA	312.9 > 268.9	3.34	1029.504	5913.970	2.176	1.0	97.8
5	5 PFHpA	363 > 318.9	3.85	1358.860	7741.568	2.194	0.9	88.6
6	6 PFHxS	398.9 > 79.6	3.98	648.084	3949.259	2.051	1.1	105.9
7	7 PFOA	413.0 > 368.7	4.26	1518.521	15661.889	1.212	0.9	93.8
8	8 PFNA	463.0 > 418.8	4.60	889.765	4591.931	2.422	0.9	86.9
9	9 PFOS	499.0 > 79.9	4.66	217.503	5358.530	0.507	1.0	97.7
10	11 13C3-PFBA	215.9 > 171.8	1.76	20255.469	18048.547	14.028	10.2	81.7
11	12 13C3-PFBS	302.0 > 98.8	2.96	4940.555	17021.580	3.628	15.4	123.1
12	13 13C3-PFPeA	266.0 > 221.8	2.69	7876.217	17021.580	5.784	11.6	92.9
13	14 13C2-PFHxA	315.0 > 269.8	3.34	5913.970	17021.580	4.343	11.5	91.7
14	15 13C4-PFHpA	367.2 > 321.8	3.85	7741.568	17021.580	5.685	12.7	101.8
15	16 18O2-PFHxS	403 > 102.6	3.97	3949.259	9321.471	5.296	12.1	97.1
16	17 13C2-PFOA	414.9 > 369.7	4.25	15661.889	5005.974	39.108	10.5	84.2
17	18 13C5-PFNA	468.2 > 422.9	4.60	4591.931	5370.599	10.688	12.1	96.5
18	20 13C8-PFOS	507.0 > 79.9	4.66	5358.530	5902.597	11.348	12.0	96.2
19	21 13C4-PFBA	216.9 > 171.8	1.75	18048.547	18048.547	12.500	12.5	100.0
20	22 13C5-PFHxA	318 > 272.9	3.34	17021.580	17021.580	12.500	12.5	100.0
21	23 13C3-PFHxS	401.9 > 79.9	3.97	9321.471	9321.471	12.500	12.5	100.0
22	24 13C8-PFOA	421.3 > 376	4.25	5005.974	5005.974	12.500	12.5	100.0
23	25 13C9-PFNA	472.2 > 426.9	4.60	5370.599	5370.599	12.500	12.5	100.0
24	26 13C4-PFOS	503.0 > 79.9	4.66	5902.597	5902.597	12.500	12.5	100.0

70-130  
↓  
50-150  
↓

YJA 10/2/17  
YJA 10/02/2017

Dataset: Untitled

Last Altered: Monday, October 02, 2017 11:05:06 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:05:43 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

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170929G3_1	IPA	29-Sep-17	13:18:36
2	170929G3_2	ST170929G3-1 PFC CS0 17I2905	29-Sep-17	13:30:50
3	170929G3_3	IPA	29-Sep-17	13:43:26
4	170929G3_4	B7I0147-BS1 OPR 0.125	29-Sep-17	13:56:00
5	170929G3_5	B7I0141-BS1 OPR 1	29-Sep-17	14:08:30
6	170929G3_6	IPA	29-Sep-17	14:21:04
7	170929G3_7	B7I0147-BLK1 Method Blank 0.125	29-Sep-17	14:38:05
8	170929G3_8	B7I0141-BLK1 Method Blank 1	29-Sep-17	14:50:16
9	170929G3_9	1701265-44 S-SED-110 1	29-Sep-17	15:05:37
10	170929G3_10	1701265-45 S-SED-LR 1	29-Sep-17	15:18:14
11	170929G3_11	1701265-46 S-SED-4 1	29-Sep-17	15:37:44
12	170929G3_12	1701265-47 S-SED-BB2 1	29-Sep-17	15:49:58
13	170929G3_13	1701265-48 S-SED-BB1 1	29-Sep-17	16:02:30
14	170929G3_14	1701277-04RE1 OW2C-MW25-0917 0.10208	29-Sep-17	16:15:00
15	170929G3_15	IPA	29-Sep-17	16:27:35
16	170929G3_16	1701277-04@10X OW2C-MW25-0917 0.10208	29-Sep-17	16:40:07
17	170929G3_17	IPA	29-Sep-17	16:52:38
18	170929G3_18	ST170929G3-2 PFC CS4 17I2628	29-Sep-17	17:05:12
19	170929G3_19	IPA	29-Sep-17	17:17:45

LC Calibration Standards Review Checklist Q1

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
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<u>↓ -2</u>	LMH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
_____	LMH	<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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Full Mass Cal. Date: 4/6/17

Run Log Present:

# of Samples per Sequence Checked:

Reviewed By: JA, 10/02/2017  
Initials/Date

Comments:

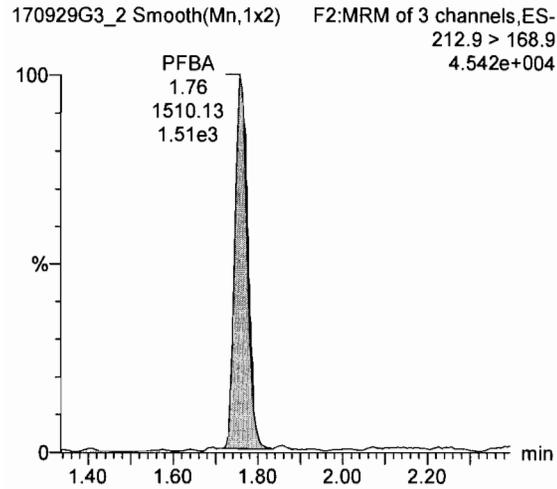
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Last Altered: Monday, October 02, 2017 10:46:12 Pacific Daylight Time  
Printed: Monday, October 02, 2017 10:46:45 Pacific Daylight Time

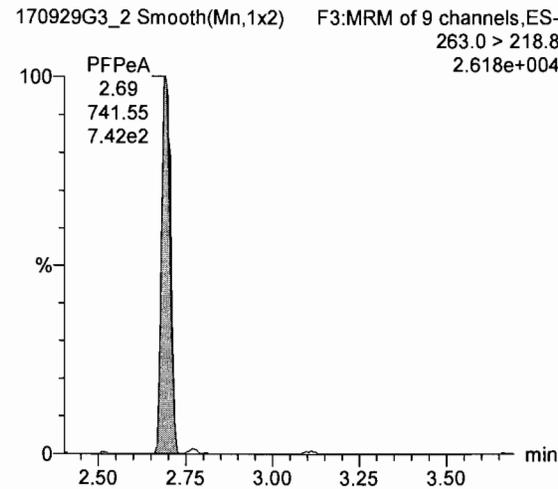
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170929G3\_2, Date: 29-Sep-2017, Time: 13:30:50, ID: ST170929G3-1 PFC CS0 1712905, Description: PFC CS0 1712905

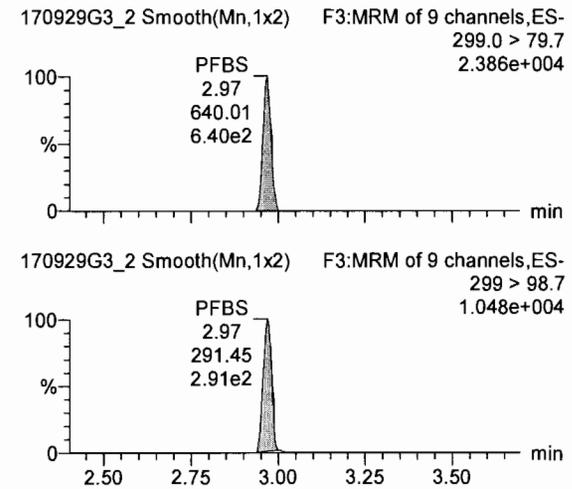
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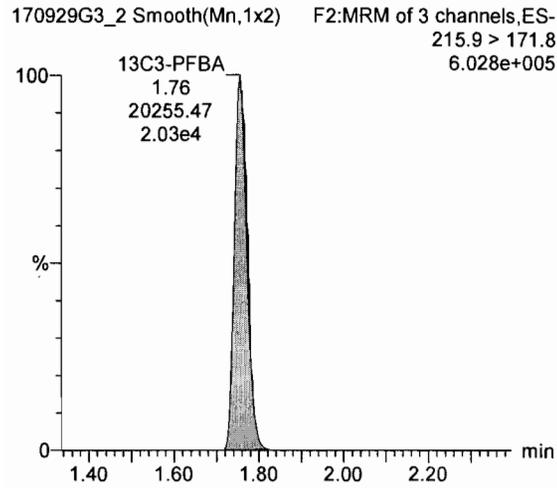
**PFPeA**



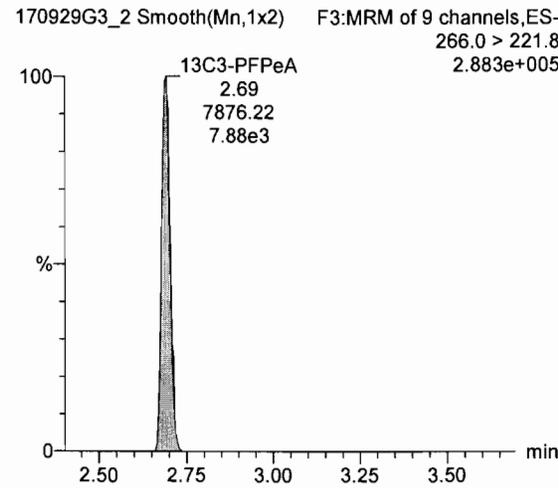
**PFBS**



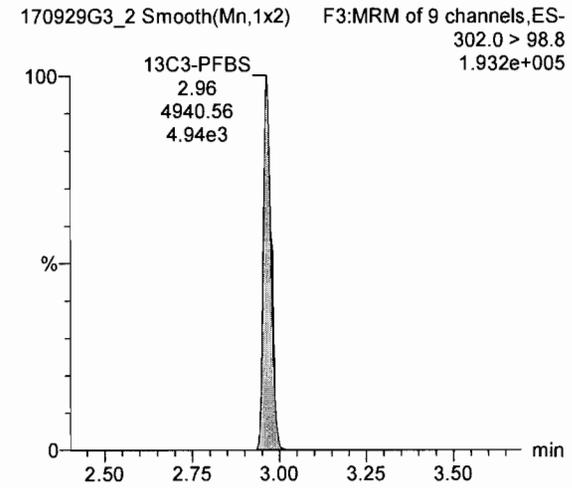
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

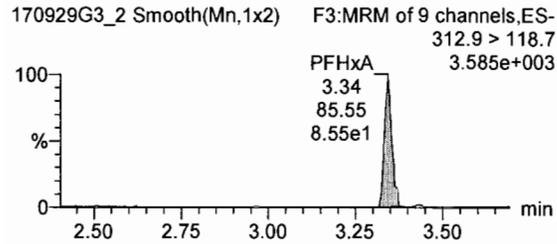
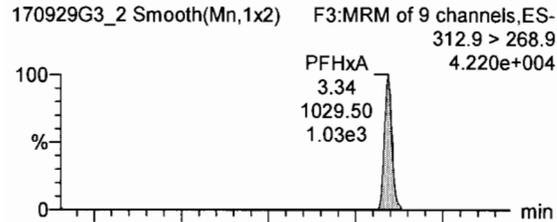


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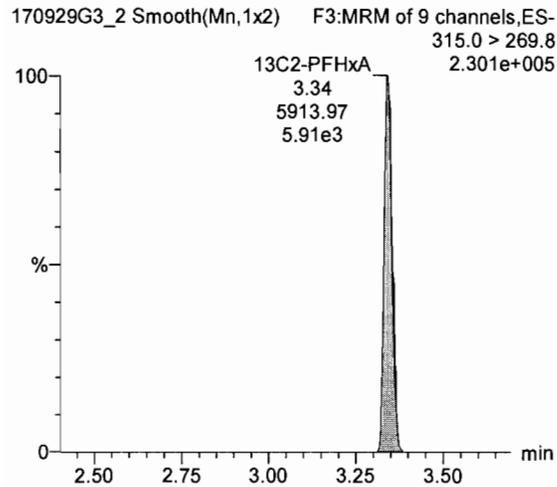
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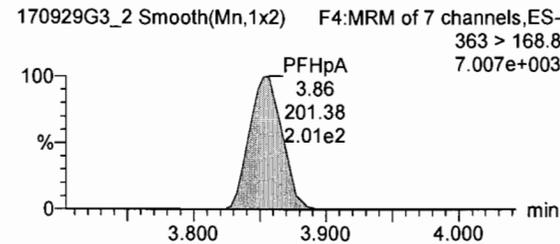
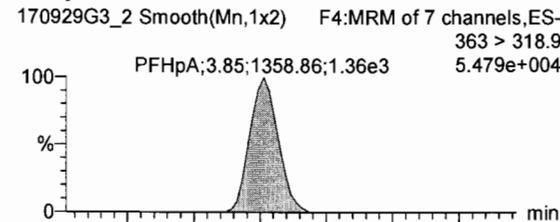
**PFHxA**



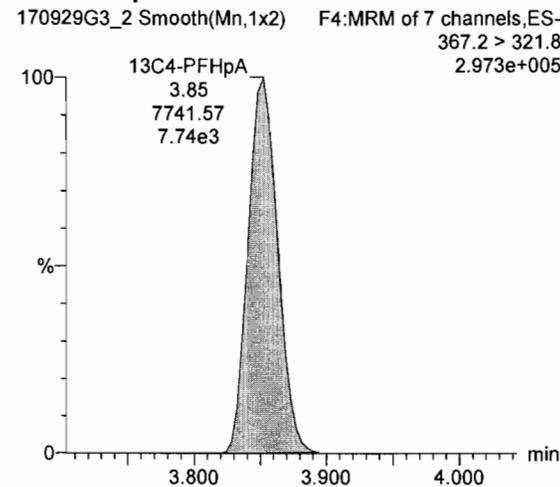
**13C2-PFHxA**



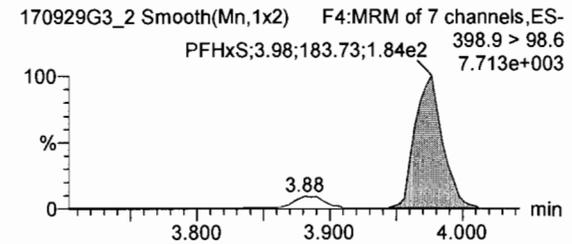
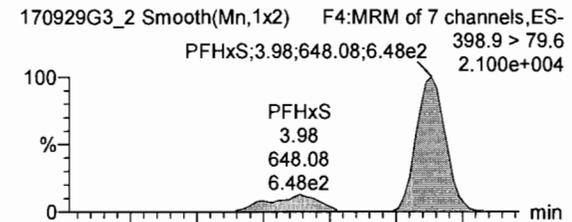
**PFHpA**



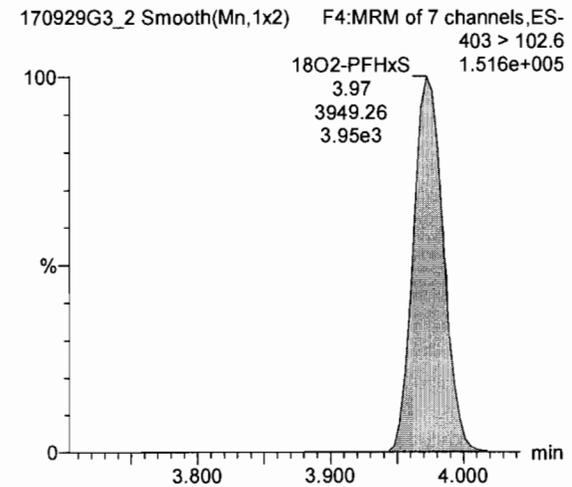
**13C4-PFHpA**



**Total PFHxS**



**18O2-PFHxS**



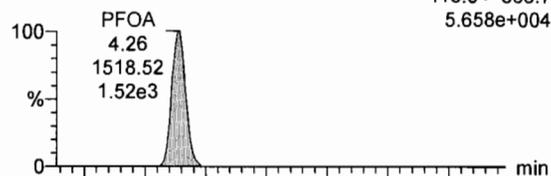
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-2.qld

Last Altered: Monday, October 02, 2017 10:46:12 Pacific Daylight Time  
Printed: Monday, October 02, 2017 10:46:45 Pacific Daylight Time

Name: 170929G3\_2, Date: 29-Sep-2017, Time: 13:30:50, ID: ST170929G3-1 PFC CS0 1712905, Description: PFC CS0 1712905

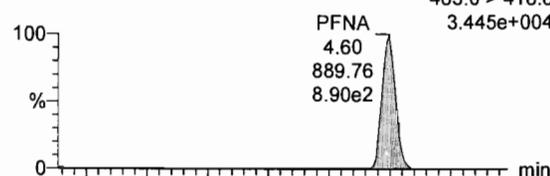
**Total PFOA**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
5.658e+004



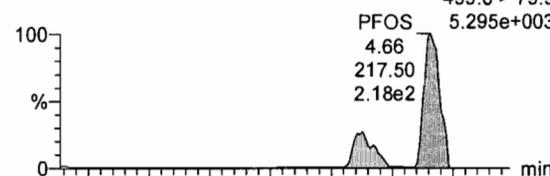
**PFNA**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
3.445e+004

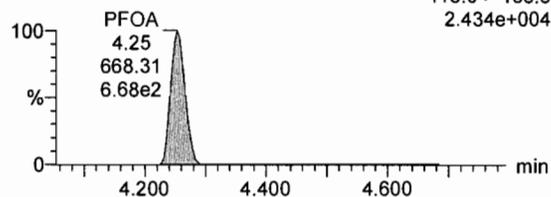


**Total PFOS**

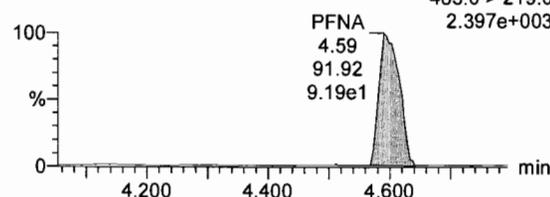
170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
5.295e+003



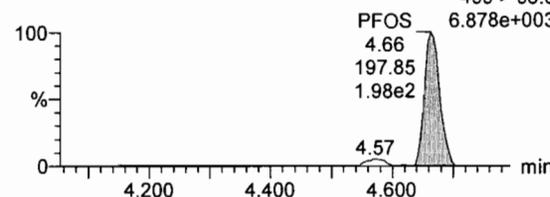
170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
2.434e+004



170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
2.397e+003

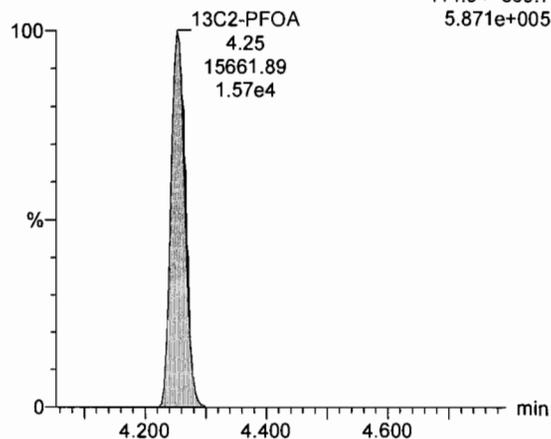


170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
6.878e+003



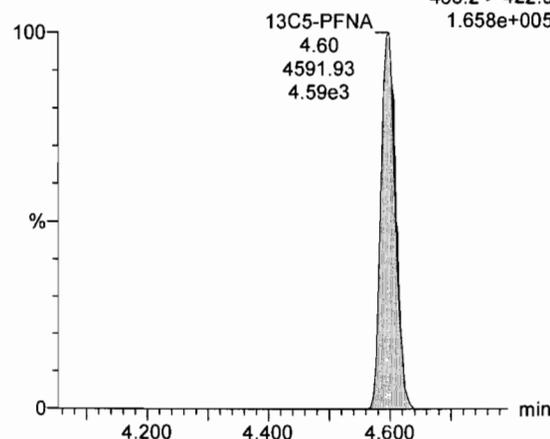
**13C2-PFOA**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
5.871e+005



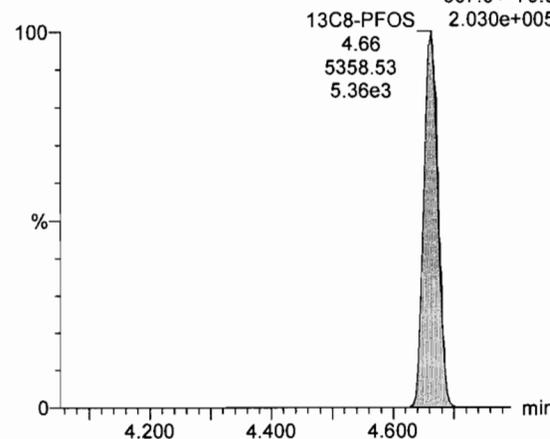
**13C5-PFNA**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
1.658e+005



**13C8-PFOS**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.030e+005



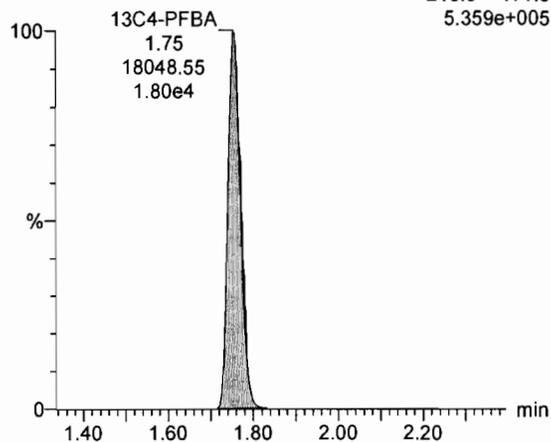
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-2.qld

Last Altered: Monday, October 02, 2017 10:46:12 Pacific Daylight Time  
Printed: Monday, October 02, 2017 10:46:45 Pacific Daylight Time

Name: 170929G3\_2, Date: 29-Sep-2017, Time: 13:30:50, ID: ST170929G3-1 PFC CS0 1712905, Description: PFC CS0 1712905

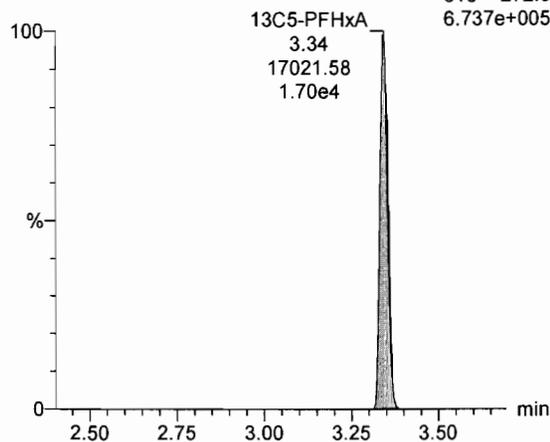
**13C4-PFBA**

170929G3\_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
5.359e+005



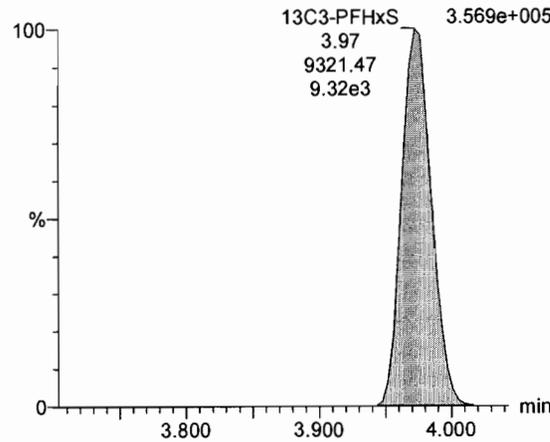
**13C5-PFHxA**

170929G3\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.737e+005



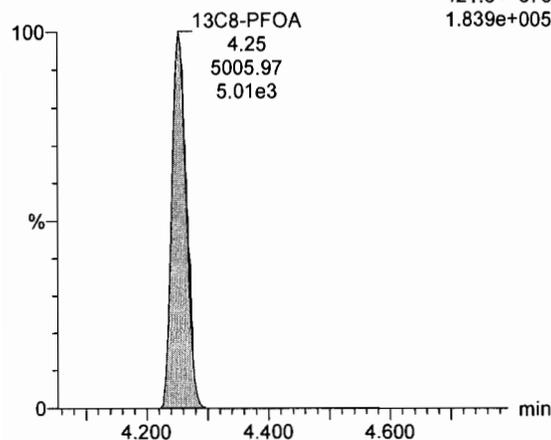
**13C3-PFHxS**

170929G3\_2 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
3.569e+005



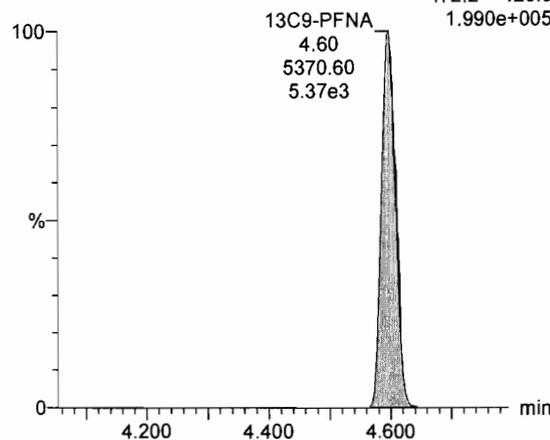
**13C8-PFOA**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
1.839e+005



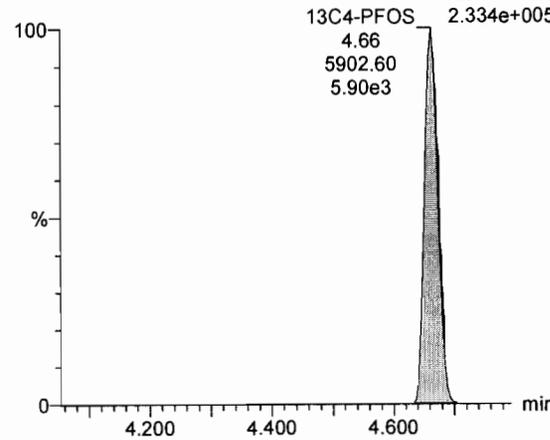
**13C9-PFNA**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
1.990e+005



**13C4-PFOS**

170929G3\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.334e+005



Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-18.qld

Last Altered: Monday, October 02, 2017 11:00:50 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:01:20 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: 170929G3\_18, Date: 29-Sep-2017, Time: 17:05:12, ID: ST170929G3-2 PFC CS4 17I2628, Description: PFC CS4 17I2628

	# Name	Trace	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.73	90130.867	27589.203	40.836	54.3	108.6
2	2 PFPeA	263.0 > 218.8	2.63	49200.609	9582.198	64.182	52.6	105.2
3	3 PFBS	299.0 > 79.7	2.90	44838.625	5943.986	94.294	56.5	112.9
4	4 PFHxA	312.9 > 268.9	3.28	69431.727	8685.818	99.921	51.0	102.0
5	5 PFHpA	363 > 318.9	3.78	112601.945	11132.615	126.432	53.9	107.8
6	6 PFHxS	398.9 > 79.6	3.91	47003.461	5839.920	100.608	52.7	105.3
7	7 PFOA	413.0 > 368.7	4.18	95347.938	23934.711	49.796	53.0	106.1
8	8 PFNA	463.0 > 418.8	4.52	98736.617	7599.580	162.405	59.2	118.4
9	9 PFOS	499.0 > 79.9	4.59	15977.038	6834.031	29.223	58.8	117.6
10	11 13C3-PFBA	215.9 > 171.8	1.73	27589.203	23179.596	14.878	10.8	86.7
11	12 13C3-PFBS	302.0 > 98.8	2.90	5943.986	23417.316	3.173	13.5	107.6
12	13 13C3-PFPeA	266.0 > 221.8	2.63	9582.198	23417.316	5.115	10.3	82.2
13	14 13C2-PFHxA	315.0 > 269.8	3.28	8685.818	23417.316	4.636	12.2	97.9
14	15 13C4-PFHpA	367.2 > 321.8	3.78	11132.615	23417.316	5.943	13.3	106.4
15	16 18O2-PFHxS	403 > 102.6	3.90	5839.920	13295.021	5.491	12.6	100.6
16	17 13C2-PFOA	414.9 > 369.7	4.18	23934.711	7802.654	38.344	10.3	82.6
17	18 13C5-PFNA	468.2 > 422.9	4.52	7599.580	9877.578	9.617	10.9	86.8
18	20 13C8-PFOS	507.0 > 79.9	4.59	6834.031	8746.366	9.767	10.4	82.8
19	21 13C4-PFBA	216.9 > 171.8	1.72	23179.596	23179.596	12.500	12.5	100.0
20	22 13C5-PFHxA	318 > 272.9	3.28	23417.316	23417.316	12.500	12.5	100.0
21	23 13C3-PFHxS	401.9 > 79.9	3.91	13295.021	13295.021	12.500	12.5	100.0
22	24 13C8-PFOA	421.3 > 376	4.18	7802.654	7802.654	12.500	12.5	100.0
23	25 13C9-PFNA	472.2 > 426.9	4.52	9877.578	9877.578	12.500	12.5	100.0
24	26 13C4-PFOS	503.0 > 79.9	4.59	8746.366	8746.366	12.500	12.5	100.0

70-130

50-150

for 10/2/17

✓ JA.  
10/02/2017



Dataset: Untitled

Last Altered: Monday, October 02, 2017 11:05:06 Pacific Daylight Time

Printed: Monday, October 02, 2017 11:05:43 Pacific Daylight Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time
1	170929G3_1	IPA	29-Sep-17	13:18:36
2	170929G3_2	ST170929G3-1 PFC CS0 17I2905	29-Sep-17	13:30:50
3	170929G3_3	IPA	29-Sep-17	13:43:26
4	170929G3_4	B7I0147-BS1 OPR 0.125	29-Sep-17	13:56:00
5	170929G3_5	B7I0141-BS1 OPR 1	29-Sep-17	14:08:30
6	170929G3_6	IPA	29-Sep-17	14:21:04
7	170929G3_7	B7I0147-BLK1 Method Blank 0.125	29-Sep-17	14:38:05
8	170929G3_8	B7I0141-BLK1 Method Blank 1	29-Sep-17	14:50:16
9	170929G3_9	1701265-44 S-SED-110 1	29-Sep-17	15:05:37
10	170929G3_10	1701265-45 S-SED-LR 1	29-Sep-17	15:18:14
11	170929G3_11	1701265-46 S-SED-4 1	29-Sep-17	15:37:44
12	170929G3_12	1701265-47 S-SED-BB2 1	29-Sep-17	15:49:58
13	170929G3_13	1701265-48 S-SED-BB1 1	29-Sep-17	16:02:30
14	170929G3_14	1701277-04RE1 OW2C-MW25-0917 0.10208	29-Sep-17	16:15:00
15	170929G3_15	IPA	29-Sep-17	16:27:35
16	170929G3_16	1701277-04@10X OW2C-MW25-0917 0.10208	29-Sep-17	16:40:07
17	170929G3_17	IPA	29-Sep-17	16:52:38
18	170929G3_18	ST170929G3-2 PFC CS4 17I2628	29-Sep-17	17:05:12
19	170929G3_19	IPA	29-Sep-17	17:17:45

Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-18.qld

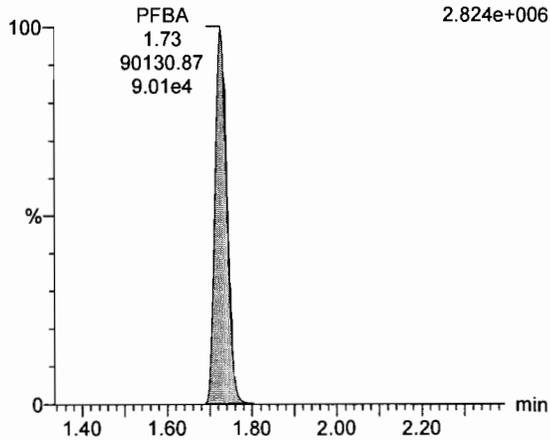
Last Altered: Monday, October 02, 2017 11:00:50 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:01:29 Pacific Daylight Time

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: 170929G3\_18, Date: 29-Sep-2017, Time: 17:05:12, ID: ST170929G3-2 PFC CS4 1712628, Description: PFC CS4 1712628

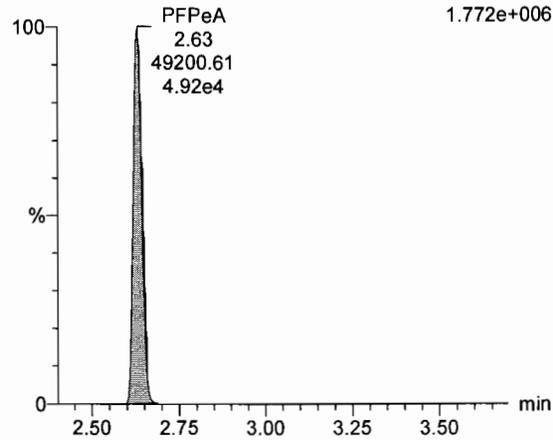
**PFBA**

170929G3\_18 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
2.824e+006



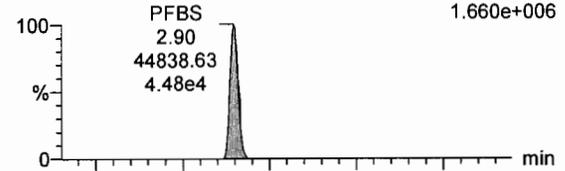
**PFPeA**

170929G3\_18 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
1.772e+006

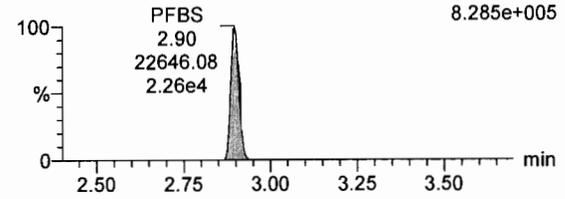


**PFBS**

170929G3\_18 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.660e+006

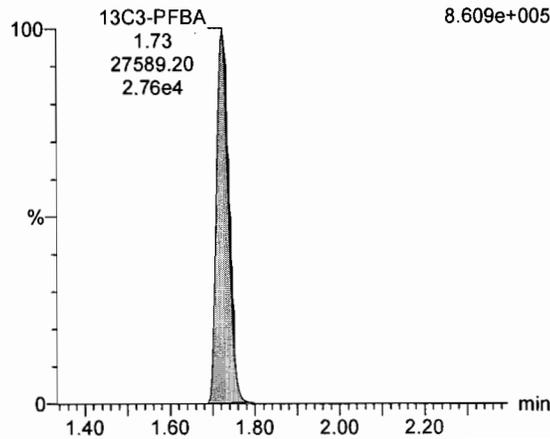


170929G3\_18 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
8.285e+005



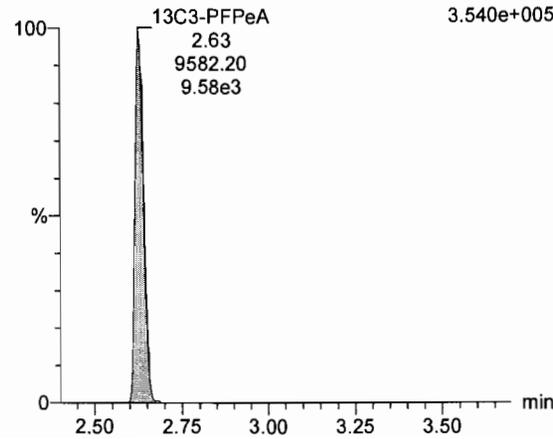
**13C3-PFBA**

170929G3\_18 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
8.609e+005



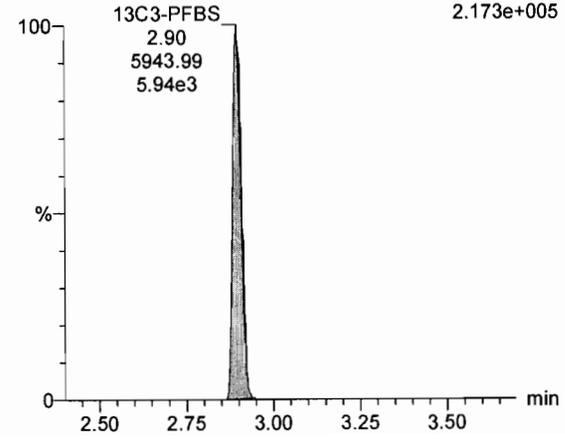
**13C3-PFPeA**

170929G3\_18 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
3.540e+005



**13C3-PFBS**

170929G3\_18 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
2.173e+005

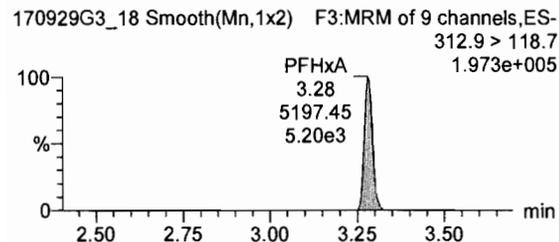
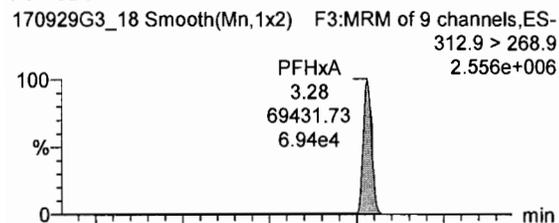


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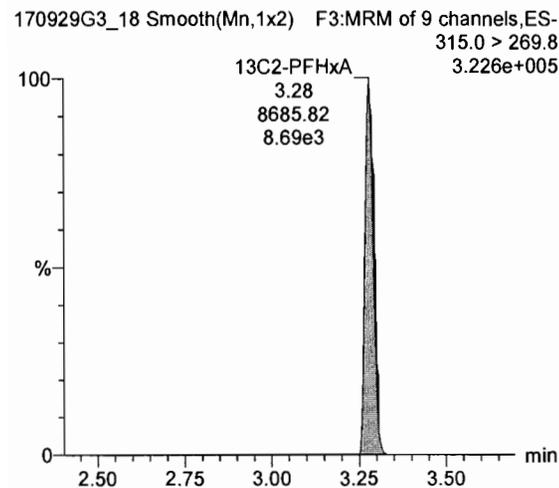
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Printed: Monday, October 02, 2017 11:01:29 Pacific Daylight Time

Name: 170929G3\_18, Date: 29-Sep-2017, Time: 17:05:12, ID: ST170929G3-2 PFC CS4 17I2628, Description: PFC CS4 17I2628

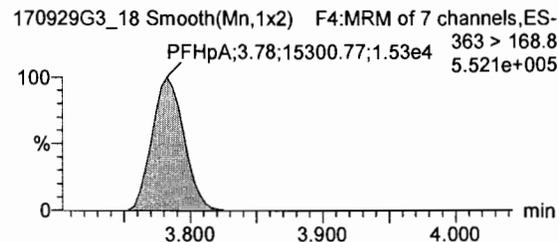
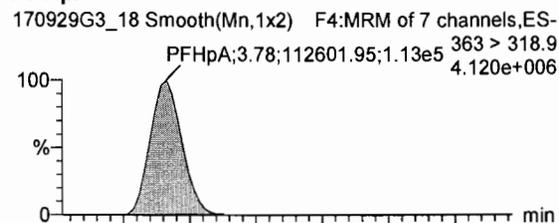
**PFHxA**



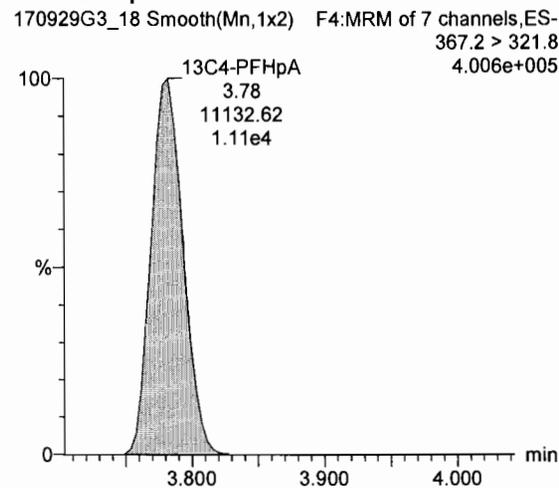
**13C2-PFHxA**



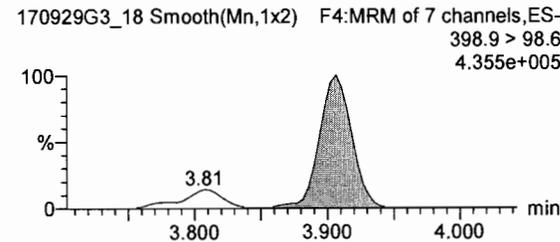
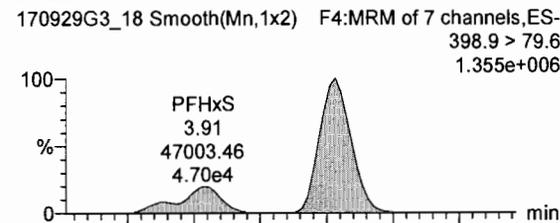
**PFHpA**



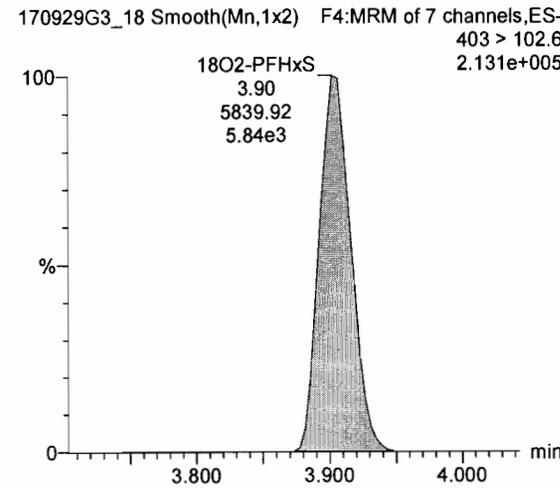
**13C4-PFHpA**



**Total PFHxS**



**18O2-PFHxS**



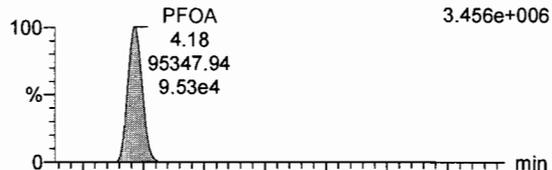
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-18.qld

Last Altered: Monday, October 02, 2017 11:00:50 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:01:29 Pacific Daylight Time

Name: 170929G3\_18, Date: 29-Sep-2017, Time: 17:05:12, ID: ST170929G3-2 PFC CS4 17I2628, Description: PFC CS4 17I2628

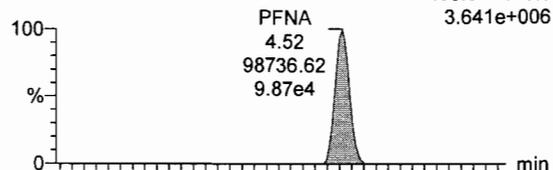
**Total PFOA**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
3.456e+006



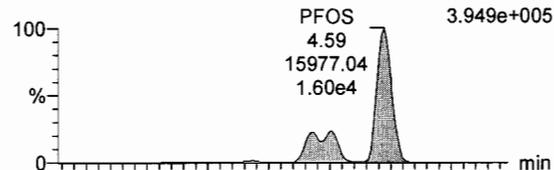
**PFNA**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
3.641e+006

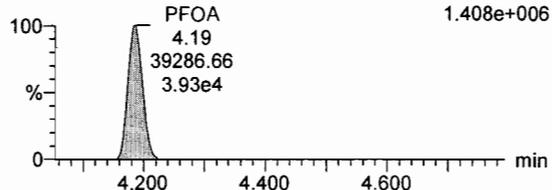


**Total PFOS**

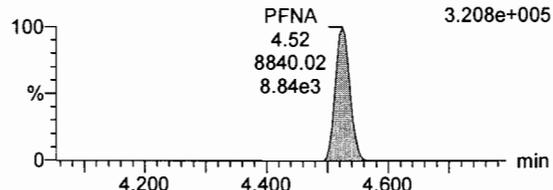
170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
3.949e+005



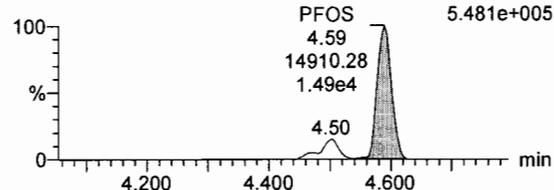
170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
1.408e+006



170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
3.208e+005

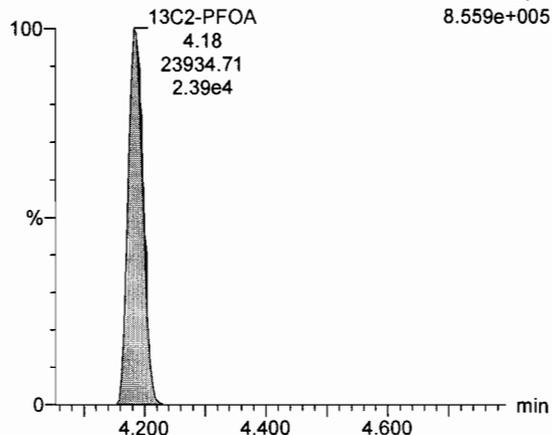


170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
5.481e+005



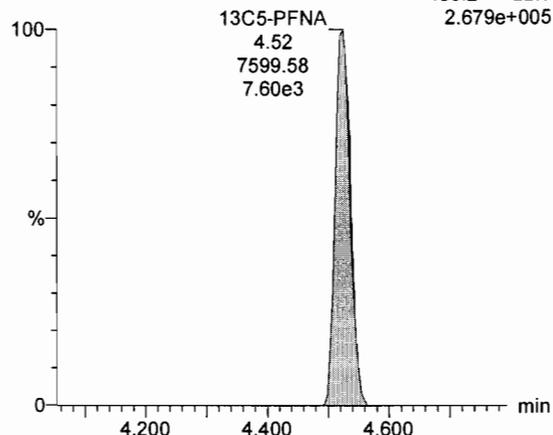
**13C2-PFOA**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
8.559e+005



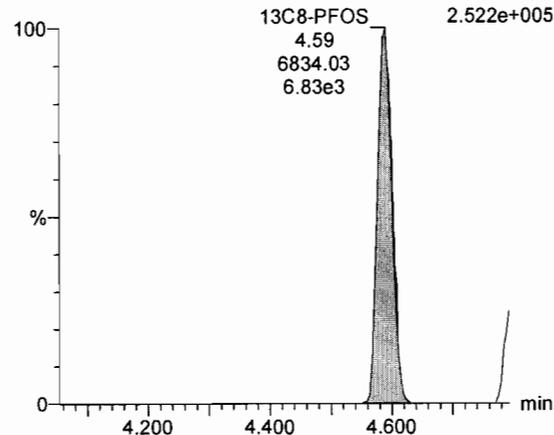
**13C5-PFNA**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.679e+005



**13C8-PFOS**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.522e+005



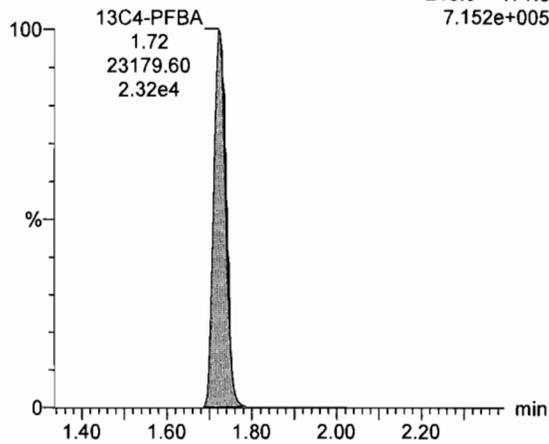
Dataset: U:\G1.PRO\Results\2017\170929G3\170929G3-18.qld

Last Altered: Monday, October 02, 2017 11:00:50 Pacific Daylight Time  
Printed: Monday, October 02, 2017 11:01:29 Pacific Daylight Time

Name: 170929G3\_18, Date: 29-Sep-2017, Time: 17:05:12, ID: ST170929G3-2 PFC CS4 17I2628, Description: PFC CS4 17I2628

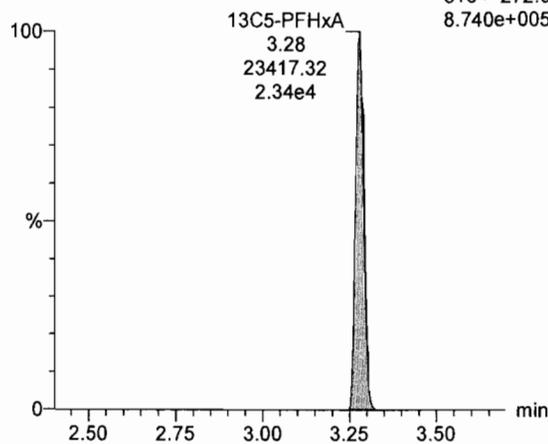
**13C4-PFBA**

170929G3\_18 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
7.152e+005



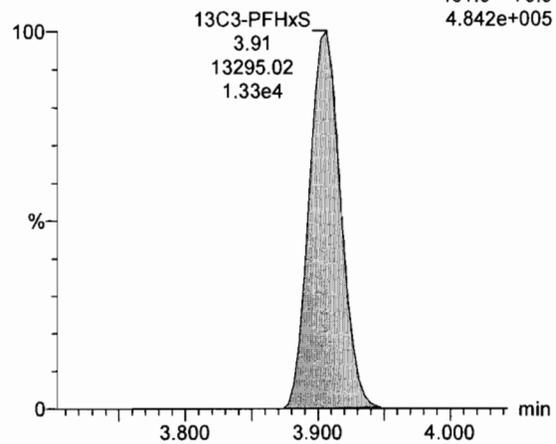
**13C5-PFHxA**

170929G3\_18 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
8.740e+005



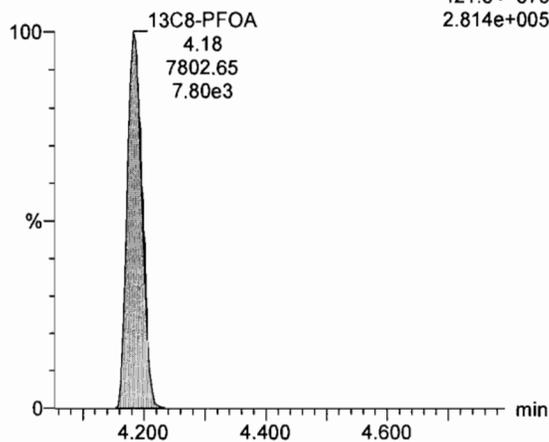
**13C3-PFHxS**

170929G3\_18 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.842e+005



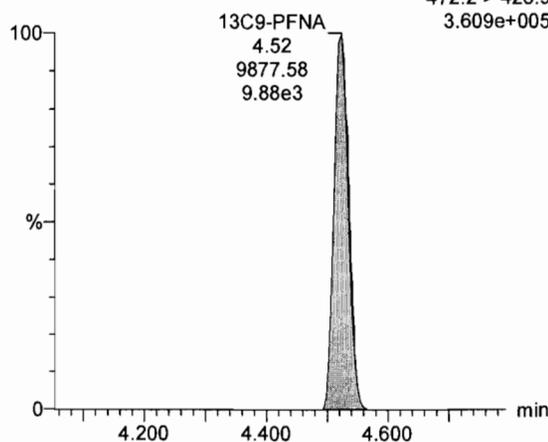
**13C8-PFOA**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
2.814e+005



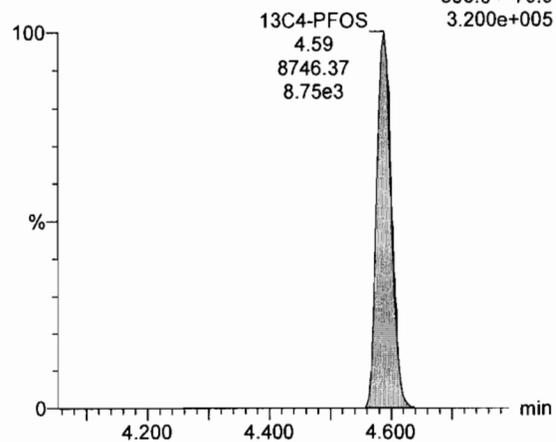
**13C9-PFNA**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
3.609e+005



**13C4-PFOS**

170929G3\_18 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
3.200e+005



**INITIAL CALIBRATION (ICAL)**  
**INCLUDING ASSOCIATED**  
**INITIAL CALIBRATION VERIFICATION (ICV) AND INSTRUMENT BLANK (IB)**

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
 Printed: Sunday, September 17, 2017 20:02:09 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0712.mdb 15 Sep 2017 15:40:05  
 Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 15 Sep 2017 15:53:33

**Compound name: PFBA**

Correlation coefficient:  $r = 0.999454$ ,  $r^2 = 0.998908$

Calibration curve:  $0.827433 * x + 0.0228168$

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

*DM  
9/17/17*

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	1.77	163.930	8910.953	0.230	MM	0.3	0.1
2	2 170915G1_3	Standard	0.500	1.76	371.958	9714.986	0.479	bb	0.6	10.2
3	3 170915G1_4	Standard	1.000	1.77	650.398	10065.732	0.808	MM	0.9	-5.1
4	4 170915G1_5	Standard	2.000	1.76	1232.736	9276.772	1.661	bb	2.0	-1.0
5	5 170915G1_6	Standard	5.000	1.76	2589.842	8233.896	3.932	MM	4.7	-5.5
6	6 170915G1_7	Standard	10.000	1.76	6206.296	9487.165	8.177	MM	9.9	-1.4
7	7 170915G1_8	Standard	50.000	1.76	26354.018	7597.585	43.359	MM	52.4	4.7
8	8 170915G1_9	Standard	100.000	1.76	48995.805	7545.572	81.166	MM	98.1	-1.9

*✓ AC  
9/18/17*

**Compound name: PFPeA**

Correlation coefficient:  $r = 0.997838$ ,  $r^2 = 0.995681$

Calibration curve:  $1.175 * x + 0.0563794$

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	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	2.73	67.833	2653.960	0.319	bd	0.2	-10.4
2	2 170915G1_3	Standard	0.500	2.72	178.338	3141.281	0.710	MM	0.6	11.2
3	3 170915G1_4	Standard	1.000	2.73	298.307	3079.076	1.211	bb	1.0	-1.7
4	4 170915G1_5	Standard	2.000	2.72	547.817	2932.656	2.335	bb	1.9	-3.0
5	5 170915G1_6	Standard	5.000	2.72	1214.579	2940.850	5.163	bb	4.3	-13.1
6	6 170915G1_7	Standard	10.000	2.72	3166.104	2769.576	14.290	MM	12.1	21.1
7	7 170915G1_8	Standard	50.000	2.72	11044.612	2477.831	55.717	bb	47.4	-5.3
8	8 170915G1_9	Standard	100.000	2.71	19354.262	2033.206	118.989	bb	101.2	1.2

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Sunday, September 17, 2017 20:04:51 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:05:18 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0712.mdb 15 Sep 2017 15:40:05

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

**Compound name: PFBS**

Correlation coefficient:  $r = 0.998429$ ,  $r^2 = 0.996861$

Calibration curve:  $1.76193 * x + -0.120527$

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	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	3.00	69.644	2702.687	0.322	bb	0.3	0.5
2	2 170915G1_3	Standard	0.500	2.99	203.996	2842.520	0.897	bb	0.6	15.5
3	3 170915G1_4	Standard	1.000	3.00	392.806	3127.865	1.570	bb	1.0	-4.1
4	4 170915G1_5	Standard	2.000	3.00	834.465	2725.247	3.827	bb	2.2	12.0
5	5 170915G1_6	Standard	5.000	2.99	1664.996	2653.396	7.844	bb	4.5	-9.6
6	6 170915G1_7	Standard	10.000	2.99	3567.296	2961.225	15.058	bb	8.6	-13.9
7	7 170915G1_8	Standard	50.000	2.99	14486.665	2148.999	84.264	bb	47.9	-4.2
8	8 170915G1_9	Standard	100.000	2.99	26214.523	1794.733	182.580	bb	103.7	3.7

**Compound name: PFHxA**

Correlation coefficient:  $r = 0.998955$ ,  $r^2 = 0.997911$

Calibration curve:  $1.73725 * x + -0.22075$

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	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	3.37	128.424	2539.106	0.632	MMX	0.5	96.4
2	2 170915G1_3	Standard	0.500	3.37	209.704	3487.174	0.752	bb	0.6	12.0
3	3 170915G1_4	Standard	1.000	3.37	412.894	2916.888	1.769	bb	1.1	14.6
4	4 170915G1_5	Standard	2.000	3.37	721.123	2833.650	3.181	bb	2.0	-2.1
5	5 170915G1_6	Standard	5.000	3.37	1419.212	2536.003	6.995	bb	4.2	-16.9
6	6 170915G1_7	Standard	10.000	3.37	3892.736	3179.576	15.304	bb	8.9	-10.6
7	7 170915G1_8	Standard	50.000	3.37	17152.699	2407.191	89.070	bb	51.4	2.8
8	8 170915G1_9	Standard	100.000	3.36	28032.811	2012.579	174.110	bb	100.3	0.3



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
 Printed: Sunday, September 17, 2017 20:02:09 Pacific Daylight Time

**Compound name: PFHpA**

Correlation coefficient:  $r = 0.999208$ ,  $r^2 = 0.998417$

Calibration curve:  $2.17412 * x + 0.0265335$

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	Primar...	Conc.	%Dev
1	170915G1_2	Standard	0.250	3.89	169.171	3660.511	0.578	bb	0.3	1.4
2	170915G1_3	Standard	0.500	3.89	404.342	4252.031	1.189	bb	0.5	6.9
3	170915G1_4	Standard	1.000	3.89	728.334	4292.922	2.121	bb	1.0	-3.7
4	170915G1_5	Standard	2.000	3.89	1334.490	3826.457	4.359	bb	2.0	-0.4
5	170915G1_6	Standard	5.000	3.89	2880.335	3341.809	10.774	bb	4.9	-1.1
6	170915G1_7	Standard	10.000	3.89	6614.581	4071.546	20.307	bb	9.3	-6.7
7	170915G1_8	Standard	50.000	3.89	27477.105	2989.259	114.899	bb	52.8	5.7
8	170915G1_9	Standard	100.000	3.89	48139.563	2826.841	212.868	bb	97.9	-2.1

**Compound name: PFHxS**

Correlation coefficient:  $r = 0.998072$ ,  $r^2 = 0.996148$

Calibration curve:  $1.75782 * x + -0.0202688$

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	Primar...	Conc.	%Dev
1	170915G1_2	Standard	0.250	4.01	111.864	2672.958	0.523	MM	0.3	23.7
2	170915G1_3	Standard	0.500	4.01	170.148	3344.654	0.636	MM	0.4	-25.3
3	170915G1_4	Standard	1.000	4.01	468.048	3065.490	1.909	MM	1.1	9.7
4	170915G1_5	Standard	2.000	4.01	878.286	2956.915	3.713	MM	2.1	6.2
5	170915G1_6	Standard	5.000	4.01	1625.828	2644.677	7.684	MM	4.4	-12.3
6	170915G1_7	Standard	10.000	4.01	4489.782	3142.291	17.860	MM	10.2	1.7
7	170915G1_8	Standard	50.000	4.01	16036.316	2473.990	81.025	MM	46.1	-7.8
8	170915G1_9	Standard	100.000	4.01	31060.486	2120.218	183.121	MM	104.2	4.2

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:02:09 Pacific Daylight Time

**Compound name: PFOA**

Correlation coefficient:  $r = 0.997421$ ,  $r^2 = 0.994848$

Calibration curve:  $0.967985 * x + 0.00749121$

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	Primar	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	4.29	269.358	7058.992	0.477	bbX	0.5	94.0
2	2 170915G1_3	Standard	0.500	4.29	369.564	8657.324	0.534	bd	0.5	8.7
3	3 170915G1_4	Standard	1.000	4.29	681.813	8319.190	1.024	bb	1.1	5.1
4	4 170915G1_5	Standard	2.000	4.29	1261.054	7587.950	2.077	bb	2.1	6.9
5	5 170915G1_6	Standard	5.000	4.29	2101.928	6559.867	4.005	bb	4.1	-17.4
6	6 170915G1_7	Standard	10.000	4.29	5803.356	8284.097	8.757	bb	9.0	-9.6
7	7 170915G1_8	Standard	50.000	4.29	25156.201	5934.239	52.990	bb	54.7	9.5
8	8 170915G1_9	Standard	100.000	4.29	46804.680	6239.229	93.771	bb	96.9	-3.1

**Compound name: PFNA**

Correlation coefficient:  $r = 0.999391$ ,  $r^2 = 0.998782$

Calibration curve:  $2.16911 * x + 0.163642$

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	Primar	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	4.64	129.631	2839.979	0.571	MMX	0.2	-25.0
2	2 170915G1_3	Standard	0.500	4.64	377.010	3127.476	1.507	bb	0.6	23.8
3	3 170915G1_4	Standard	1.000	4.64	418.425	3027.807	1.727	bb	0.7	-27.9
4	4 170915G1_5	Standard	2.000	4.64	1015.259	2907.585	4.365	bb	1.9	-3.2
5	5 170915G1_6	Standard	5.000	4.64	2232.471	2426.382	11.501	bb	5.2	4.5
6	6 170915G1_7	Standard	10.000	4.64	5697.777	3117.296	22.847	bb	10.5	4.6
7	7 170915G1_8	Standard	50.000	4.64	25482.535	3018.842	105.515	bb	48.6	-2.9
8	8 170915G1_9	Standard	100.000	4.64	51700.059	2948.523	219.178	bb	101.0	1.0

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
 Printed: Sunday, September 17, 2017 20:02:09 Pacific Daylight Time

**Compound name: PFOS**

Correlation coefficient:  $r = 0.997594$ ,  $r^2 = 0.995193$

Calibration curve:  $0.480073 * x + -0.0917254$

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	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	4.70	1.975	3092.888	0.008	MM	0.2	-16.9
2	2 170915G1_3	Standard	0.500	4.71	63.018	4159.045	0.189	MM	0.6	17.1
3	3 170915G1_4	Standard	1.000	4.70	157.273	4326.068	0.454	MM	1.1	13.8
4	4 170915G1_5	Standard	2.000	4.70	285.313	3994.509	0.893	MM	2.1	2.5
5	5 170915G1_6	Standard	5.000	4.70	453.500	3241.471	1.749	MM	3.8	-23.3
6	6 170915G1_7	Standard	10.000	4.70	1812.870	4718.807	4.802	MM	10.2	1.9
7	7 170915G1_8	Standard	50.000	4.70	7355.403	3550.161	25.898	MM	54.1	8.3
8	8 170915G1_9	Standard	100.000	4.70	17516.398	4730.611	46.285	MM	96.6	-3.4

**Compound name: PFDA**

Correlation coefficient:  $r = 0.999580$ ,  $r^2 = 0.999160$

Calibration curve:  $0.178859 * x + -0.00989088$

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	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	0.250	4.94	30.438	4562.922	0.083	MM!X	0.5	108.6
2	2 170915G1_3	Standard	0.500	4.95	37.213	5901.082	0.079	bb	0.5	-0.8
3	3 170915G1_4	Standard	1.000	4.94	80.936	5928.139	0.171	bb	1.0	0.9
4	4 170915G1_5	Standard	2.000	4.94	155.894	6083.948	0.320	bb	1.8	-7.7
5	5 170915G1_6	Standard	5.000	4.94	313.366	4504.418	0.870	bb	4.9	-1.7
6	6 170915G1_7	Standard	10.000	4.94	1109.787	7051.390	1.967	bb	11.1	10.5
7	7 170915G1_8	Standard	50.000	4.94	3866.160	5467.086	8.840	bb	49.5	-1.0
8	8 170915G1_9	Standard	100.000	4.94	9884.872	6932.996	17.822	bb	99.7	-0.3

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:09 Pacific Daylight Time

**Compound name: 13C3-PFBA**

Response Factor: 1.23234

RRF SD: 0.0351787, Relative SD: 2.85463

Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	1.76	8910.953	6867.332	16.220	bd	13.2	5.3
2	2 170915G1_3	Standard	12.500	1.76	9714.986	8120.798	14.954	bd	12.1	-2.9
3	3 170915G1_4	Standard	12.500	1.76	10065.732	8153.634	15.431	bd	12.5	0.2
4	4 170915G1_5	Standard	12.500	1.76	9276.772	7484.246	15.494	bb	12.6	0.6
5	5 170915G1_6	Standard	12.500	1.75	8233.896	6689.330	15.386	bb	12.5	-0.1
6	6 170915G1_7	Standard	12.500	1.76	9487.165	7636.301	15.530	bb	12.6	0.8
7	7 170915G1_8	Standard	12.500	1.75	7597.585	6447.080	14.731	bb	12.0	-4.4
8	8 170915G1_9	Standard	12.500	1.76	7545.572	6089.844	15.488	bb	12.6	0.5

**Compound name: 13C3-PFBS**

Response Factor: 0.391041

RRF SD: 0.0260056, Relative SD: 6.65034

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	3.00	2702.687	6702.518	5.040	bb	12.9	3.1
2	2 170915G1_3	Standard	12.500	3.00	2842.520	7988.833	4.448	bb	11.4	-9.0
3	3 170915G1_4	Standard	12.500	3.00	3127.865	7567.800	5.166	bb	13.2	5.7
4	4 170915G1_5	Standard	12.500	3.00	2725.247	6875.438	4.955	bb	12.7	1.4
5	5 170915G1_6	Standard	12.500	2.99	2653.396	6230.583	5.323	bb	13.6	8.9
6	6 170915G1_7	Standard	12.500	2.99	2961.225	7318.983	5.057	bb	12.9	3.5
7	7 170915G1_8	Standard	12.500	2.99	2148.999	5948.093	4.516	bb	11.5	-7.6
8	8 170915G1_9	Standard	12.500	2.99	1794.733	4879.105	4.598	bb	11.8	-5.9

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
 Printed: Sunday, September 17, 2017 20:02:09 Pacific Daylight Time

**Compound name: 13C3-PFPeA**

Response Factor: 0.413286

RRF SD: 0.0283009, Relative SD: 6.84778

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	2.72	2653.960	6702.518	4.950	bb	12.0	-4.2
2	2 170915G1_3	Standard	12.500	2.72	3141.281	7988.833	4.915	bb	11.9	-4.9
3	3 170915G1_4	Standard	12.500	2.72	3079.076	7567.800	5.086	bb	12.3	-1.6
4	4 170915G1_5	Standard	12.500	2.72	2932.656	6875.438	5.332	bb	12.9	3.2
5	5 170915G1_6	Standard	12.500	2.72	2940.850	6230.583	5.900	bb	14.3	14.2
6	6 170915G1_7	Standard	12.500	2.72	2769.576	7318.983	4.730	bb	11.4	-8.4
7	7 170915G1_8	Standard	12.500	2.72	2477.831	5948.093	5.207	bb	12.6	0.8
8	8 170915G1_9	Standard	12.500	2.71	2033.206	4879.105	5.209	bb	12.6	0.8

**Compound name: 13C2-PFHxA**

Response Factor: 0.408944

RRF SD: 0.0204005, Relative SD: 4.98859

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	3.37	2539.106	6702.518	4.735	bb	11.6	-7.4
2	2 170915G1_3	Standard	12.500	3.37	3487.174	7988.833	5.456	bb	13.3	6.7
3	3 170915G1_4	Standard	12.500	3.37	2916.888	7567.800	4.818	bb	11.8	-5.7
4	4 170915G1_5	Standard	12.500	3.37	2833.650	6875.438	5.152	bb	12.6	0.8
5	5 170915G1_6	Standard	12.500	3.37	2536.003	6230.583	5.088	bb	12.4	-0.5
6	6 170915G1_7	Standard	12.500	3.37	3179.576	7318.983	5.430	bb	13.3	6.2
7	7 170915G1_8	Standard	12.500	3.36	2407.191	5948.093	5.059	bb	12.4	-1.0
8	8 170915G1_9	Standard	12.500	3.36	2012.579	4879.105	5.156	bb	12.6	0.9

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

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**Compound name: 13C4-PFHpA**

Response Factor: 0.547097

RRF SD: 0.0237338, Relative SD: 4.33813

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	3.89	3660.511	6702.518	6.827	bb	12.5	-0.2
2	2 170915G1_3	Standard	12.500	3.89	4252.031	7988.833	6.653	bb	12.2	-2.7
3	3 170915G1_4	Standard	12.500	3.89	4292.922	7567.800	7.091	bb	13.0	3.7
4	4 170915G1_5	Standard	12.500	3.89	3826.457	6875.438	6.957	bb	12.7	1.7
5	5 170915G1_6	Standard	12.500	3.89	3341.809	6230.583	6.704	bb	12.3	-2.0
6	6 170915G1_7	Standard	12.500	3.89	4071.546	7318.983	6.954	bb	12.7	1.7
7	7 170915G1_8	Standard	12.500	3.88	2989.259	5948.093	6.282	bb	11.5	-8.1
8	8 170915G1_9	Standard	12.500	3.88	2826.841	4879.105	7.242	bb	13.2	5.9

**Compound name: 18O2-PFHxS**

Response Factor: 0.495311

RRF SD: 0.0252654, Relative SD: 5.10091

Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	4.01	2672.958	5245.087	6.370	bb	12.9	2.9
2	2 170915G1_3	Standard	12.500	4.01	3344.654	6341.771	6.593	bb	13.3	6.5
3	3 170915G1_4	Standard	12.500	4.01	3065.490	6353.543	6.031	bb	12.2	-2.6
4	4 170915G1_5	Standard	12.500	4.01	2956.915	5728.324	6.452	bb	13.0	4.2
5	5 170915G1_6	Standard	12.500	4.01	2644.677	5316.193	6.218	bb	12.6	0.4
6	6 170915G1_7	Standard	12.500	4.01	3142.291	7073.602	5.553	bb	11.2	-10.3
7	7 170915G1_8	Standard	12.500	4.01	2473.990	5008.166	6.175	bb	12.5	-0.3
8	8 170915G1_9	Standard	12.500	4.01	2120.218	4317.233	6.139	bb	12.4	-0.8

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

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**Compound name: 13C2-PFOA**

Response Factor: 3.31963

RRF SD: 0.389226, Relative SD: 11.725

Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	4.29	7058.992	2243.560	39.329	bb	11.8	-5.2
2	2 170915G1_3	Standard	12.500	4.29	8657.324	2391.203	45.256	bb	13.6	9.1
3	3 170915G1_4	Standard	12.500	4.29	8319.190	2172.407	47.869	bb	14.4	15.4
4	4 170915G1_5	Standard	12.500	4.29	7587.950	1968.411	48.186	bb	14.5	16.1
5	5 170915G1_6	Standard	12.500	4.29	6559.867	2076.420	39.490	bb	11.9	-4.8
6	6 170915G1_7	Standard	12.500	4.29	8284.097	2725.582	37.992	bb	11.4	-8.4
7	7 170915G1_8	Standard	12.500	4.29	5934.239	2081.968	35.629	bb	10.7	-14.1
8	8 170915G1_9	Standard	12.500	4.29	6239.229	2040.965	38.212	bb	11.5	-7.9

**Compound name: 13C5-PFNA**

Response Factor: 1.05198

RRF SD: 0.115761, Relative SD: 11.004

Response type: Internal Std ( Ref 25 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	4.64	2839.979	2343.928	15.145	bb	14.4	15.2
2	2 170915G1_3	Standard	12.500	4.64	3127.476	3294.523	11.866	bb	11.3	-9.8
3	3 170915G1_4	Standard	12.500	4.64	3027.807	2947.302	12.841	bb	12.2	-2.3
4	4 170915G1_5	Standard	12.500	4.64	2907.585	2476.663	14.675	bb	13.9	11.6
5	5 170915G1_6	Standard	12.500	4.64	2426.382	2183.381	13.891	bb	13.2	5.6
6	6 170915G1_7	Standard	12.500	4.64	3117.296	3603.984	10.812	bb	10.3	-17.8
7	7 170915G1_8	Standard	12.500	4.64	3018.842	2795.008	13.501	bb	12.8	2.7
8	8 170915G1_9	Standard	12.500	4.64	2948.523	2956.513	12.466	bb	11.9	-5.2

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

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**Compound name: 13C2-PFDA**

Response Factor: 2.28264

RRF SD: 0.128121, Relative SD: 5.61283

Response type: Internal Std ( Ref 27 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	4.94	4562.922	1928.671	29.573	bb	13.0	3.6
2	2 170915G1_3	Standard	12.500	4.94	5901.082	2728.222	27.037	bb	11.8	-5.2
3	3 170915G1_4	Standard	12.500	4.94	5928.139	2793.414	26.527	bb	11.6	-7.0
4	4 170915G1_5	Standard	12.500	4.94	6083.948	2671.769	28.464	bb	12.5	-0.2
5	5 170915G1_6	Standard	12.500	4.94	4504.418	1887.853	29.825	bb	13.1	4.5
6	6 170915G1_7	Standard	12.500	4.94	7051.390	3066.494	28.744	bb	12.6	0.7
7	7 170915G1_8	Standard	12.500	4.94	5467.086	2530.884	27.002	bb	11.8	-5.4
8	8 170915G1_9	Standard	12.500	4.94	6932.996	2787.277	31.092	bb	13.6	9.0

**Compound name: 13C8-PFOS**

Response Factor: 0.978828

RRF SD: 0.0411598, Relative SD: 4.20501

Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	4.71	3092.888	3093.504	12.498	bb	12.8	2.1
2	2 170915G1_3	Standard	12.500	4.70	4159.045	4528.971	11.479	bb	11.7	-6.2
3	3 170915G1_4	Standard	12.500	4.70	4326.068	4191.155	12.902	bb	13.2	5.5
4	4 170915G1_5	Standard	12.500	4.70	3994.509	4100.410	12.177	bb	12.4	-0.5
5	5 170915G1_6	Standard	12.500	4.70	3241.471	3421.438	11.843	bb	12.1	-3.2
6	6 170915G1_7	Standard	12.500	4.70	4718.807	4927.049	11.972	bb	12.2	-2.2
7	7 170915G1_8	Standard	12.500	4.70	3550.161	3678.798	12.063	bb	12.3	-1.4
8	8 170915G1_9	Standard	12.500	4.70	4730.611	4566.339	12.950	bb	13.2	5.8



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

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**Compound name: 13C4-PFBA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	1.76	6867.332	6867.332	12.500	bb	12.5	0.0
2	2 170915G1_3	Standard	12.500	1.76	8120.798	8120.798	12.500	bb	12.5	0.0
3	3 170915G1_4	Standard	12.500	1.76	8153.634	8153.634	12.500	bb	12.5	0.0
4	4 170915G1_5	Standard	12.500	1.76	7484.246	7484.246	12.500	bd	12.5	0.0
5	5 170915G1_6	Standard	12.500	1.76	6689.330	6689.330	12.500	bb	12.5	0.0
6	6 170915G1_7	Standard	12.500	1.75	7636.301	7636.301	12.500	bb	12.5	0.0
7	7 170915G1_8	Standard	12.500	1.75	6447.080	6447.080	12.500	bd	12.5	0.0
8	8 170915G1_9	Standard	12.500	1.75	6089.844	6089.844	12.500	bb	12.5	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	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	3.37	6702.518	6702.518	12.500	bb	12.5	0.0
2	2 170915G1_3	Standard	12.500	3.37	7988.833	7988.833	12.500	bb	12.5	0.0
3	3 170915G1_4	Standard	12.500	3.37	7567.800	7567.800	12.500	bb	12.5	0.0
4	4 170915G1_5	Standard	12.500	3.37	6875.438	6875.438	12.500	bb	12.5	0.0
5	5 170915G1_6	Standard	12.500	3.36	6230.583	6230.583	12.500	bb	12.5	0.0
6	6 170915G1_7	Standard	12.500	3.36	7318.983	7318.983	12.500	bb	12.5	0.0
7	7 170915G1_8	Standard	12.500	3.36	5948.093	5948.093	12.500	bb	12.5	0.0
8	8 170915G1_9	Standard	12.500	3.36	4879.105	4879.105	12.500	bb	12.5	0.0

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

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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	Primar...	Conc	%Dev
1	1 170915G1_2	Standard	12.500	4.01	5245.087	5245.087	12.500	bb	12.5	0.0
2	2 170915G1_3	Standard	12.500	4.01	6341.771	6341.771	12.500	bb	12.5	0.0
3	3 170915G1_4	Standard	12.500	4.01	6353.543	6353.543	12.500	bb	12.5	0.0
4	4 170915G1_5	Standard	12.500	4.01	5728.324	5728.324	12.500	bb	12.5	0.0
5	5 170915G1_6	Standard	12.500	4.01	5316.193	5316.193	12.500	bb	12.5	0.0
6	6 170915G1_7	Standard	12.500	4.01	7073.602	7073.602	12.500	bb	12.5	0.0
7	7 170915G1_8	Standard	12.500	4.01	5008.166	5008.166	12.500	bb	12.5	0.0
8	8 170915G1_9	Standard	12.500	4.01	4317.233	4317.233	12.500	bb	12.5	0.0

**Compound name: 13C8-PFOA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc	%Dev
1	1 170915G1_2	Standard	12.500	4.29	2243.560	2243.560	12.500	bb	12.5	0.0
2	2 170915G1_3	Standard	12.500	4.29	2391.203	2391.203	12.500	bb	12.5	0.0
3	3 170915G1_4	Standard	12.500	4.29	2172.407	2172.407	12.500	bb	12.5	0.0
4	4 170915G1_5	Standard	12.500	4.29	1968.411	1968.411	12.500	bb	12.5	0.0
5	5 170915G1_6	Standard	12.500	4.29	2076.420	2076.420	12.500	bb	12.5	0.0
6	6 170915G1_7	Standard	12.500	4.29	2725.582	2725.582	12.500	bb	12.5	0.0
7	7 170915G1_8	Standard	12.500	4.29	2081.968	2081.968	12.500	bb	12.5	0.0
8	8 170915G1_9	Standard	12.500	4.29	2040.965	2040.965	12.500	bb	12.5	0.0

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

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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	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	4.64	2343.928	2343.928	12.500	bb	12.5	0.0
2	2 170915G1_3	Standard	12.500	4.64	3294.523	3294.523	12.500	bb	12.5	0.0
3	3 170915G1_4	Standard	12.500	4.64	2947.302	2947.302	12.500	bb	12.5	0.0
4	4 170915G1_5	Standard	12.500	4.64	2476.663	2476.663	12.500	bb	12.5	0.0
5	5 170915G1_6	Standard	12.500	4.64	2183.381	2183.381	12.500	bb	12.5	0.0
6	6 170915G1_7	Standard	12.500	4.64	3603.984	3603.984	12.500	bb	12.5	0.0
7	7 170915G1_8	Standard	12.500	4.64	2795.008	2795.008	12.500	bb	12.5	0.0
8	8 170915G1_9	Standard	12.500	4.64	2956.513	2956.513	12.500	bb	12.5	0.0

**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	Conc.	%Dev
1	1 170915G1_2	Standard	12.500	4.70	3093.504	3093.504	12.500	bb	12.5	0.0
2	2 170915G1_3	Standard	12.500	4.70	4528.971	4528.971	12.500	bb	12.5	0.0
3	3 170915G1_4	Standard	12.500	4.70	4191.155	4191.155	12.500	bb	12.5	0.0
4	4 170915G1_5	Standard	12.500	4.70	4100.410	4100.410	12.500	bb	12.5	0.0
5	5 170915G1_6	Standard	12.500	4.70	3421.438	3421.438	12.500	bb	12.5	0.0
6	6 170915G1_7	Standard	12.500	4.70	4927.049	4927.049	12.500	bb	12.5	0.0
7	7 170915G1_8	Standard	12.500	4.70	3678.798	3678.798	12.500	bb	12.5	0.0
8	8 170915G1_9	Standard	12.500	4.70	4566.339	4566.339	12.500	bb	12.5	0.0

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-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	Primar	Conc.	%Dev
1	170915G1_2	Standard	12.500	4.94	1928.671	1928.671	12.500	bb	12.5	0.0
2	170915G1_3	Standard	12.500	4.94	2728.222	2728.222	12.500	bb	12.5	0.0
3	170915G1_4	Standard	12.500	4.94	2793.414	2793.414	12.500	bb	12.5	0.0
4	170915G1_5	Standard	12.500	4.94	2671.769	2671.769	12.500	bb	12.5	0.0
5	170915G1_6	Standard	12.500	4.94	1887.853	1887.853	12.500	bb	12.5	0.0
6	170915G1_7	Standard	12.500	4.94	3066.494	3066.494	12.500	bb	12.5	0.0
7	170915G1_8	Standard	12.500	4.93	2530.884	2530.884	12.500	bb	12.5	0.0
8	170915G1_9	Standard	12.500	4.93	2787.277	2787.277	12.500	bb	12.5	0.0

Dataset: Untitled

Last Altered: Monday, September 18, 2017 13:53:50 Pacific Daylight Time

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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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Compound name: PFBA

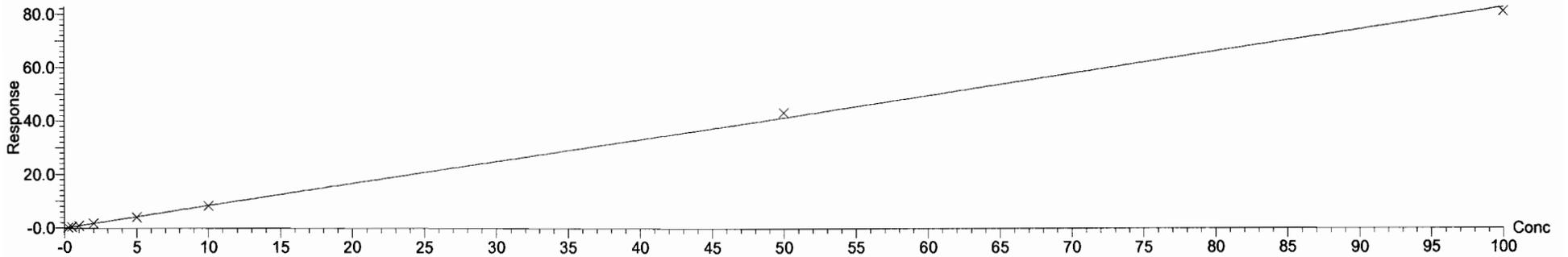
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3	170915G1_3	ST170915G1-2 PFC CS-1 17I1506	15-Sep-17	12:12:29
4	170915G1_4	ST170915G1-3 PFC CS0 17I1507	15-Sep-17	12:25:02
5	170915G1_5	ST170915G1-4 PFC CS1 17I1508	15-Sep-17	12:37:35
6	170915G1_6	ST170915G1-5 PFC CS2 17I1509	15-Sep-17	12:50:09
7	170915G1_7	ST170915G1-6 PFC CS3 17I1510	15-Sep-17	13:02:42
8	170915G1_8	ST170915G1-7 PFC CS4 17I1511	15-Sep-17	13:15:15
9	170915G1_9	ST170915G1-8 PFC CS5 17I1512	15-Sep-17	13:27:49
10	170915G1_10	IPA	15-Sep-17	13:40:23
11	170915G1_11	ICV170915G1-1 PFC ICV 15I1504	15-Sep-17	13:52:53
12	170915G1_12	IPA	15-Sep-17	14:05:23

Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

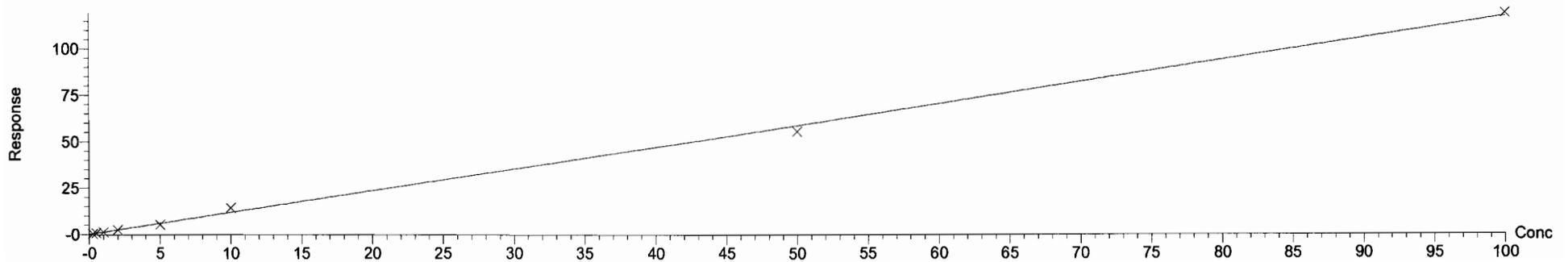
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Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 15 Sep 2017 15:53:33

Compound name: PFBA  
Correlation coefficient:  $r = 0.999454$ ,  $r^2 = 0.998908$   
Calibration curve:  $0.827433 * x + 0.0228168$   
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:  $r = 0.997838$ ,  $r^2 = 0.995681$   
Calibration curve:  $1.175 * x + 0.0563794$   
Response type: Internal Std ( Ref 13 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Sunday, September 17, 2017 20:04:51 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:05:18 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0712.mdb 15 Sep 2017 15:40:05

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

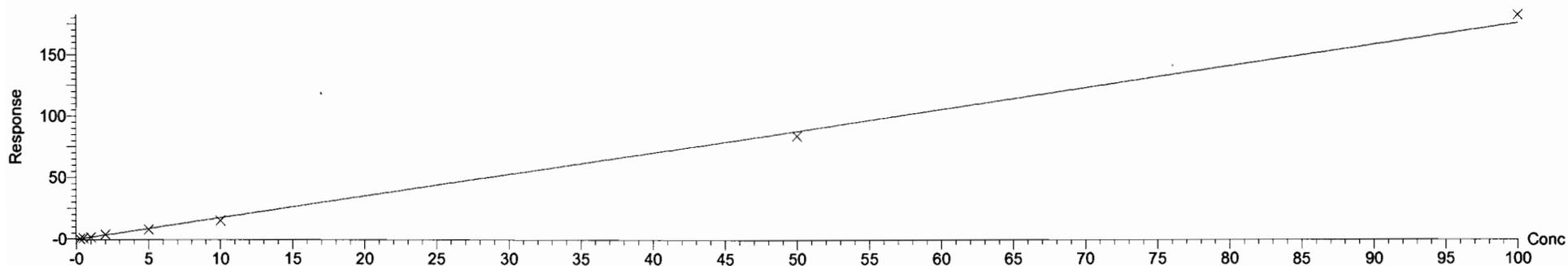
Compound name: PFBS

Correlation coefficient:  $r = 0.998429$ ,  $r^2 = 0.996861$

Calibration curve:  $1.76193 * x + -0.120527$

Response type: Internal Std ( Ref 12 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



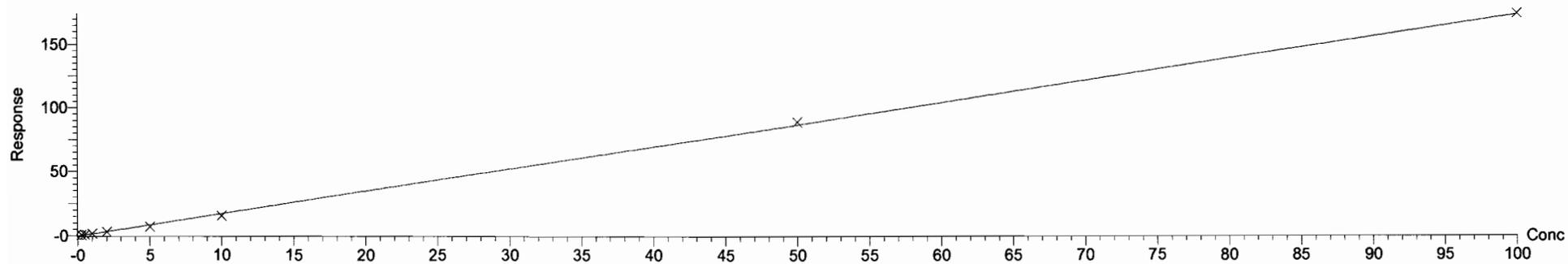
Compound name: PFHxA

Correlation coefficient:  $r = 0.998955$ ,  $r^2 = 0.997911$

Calibration curve:  $1.73725 * x + -0.22075$

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

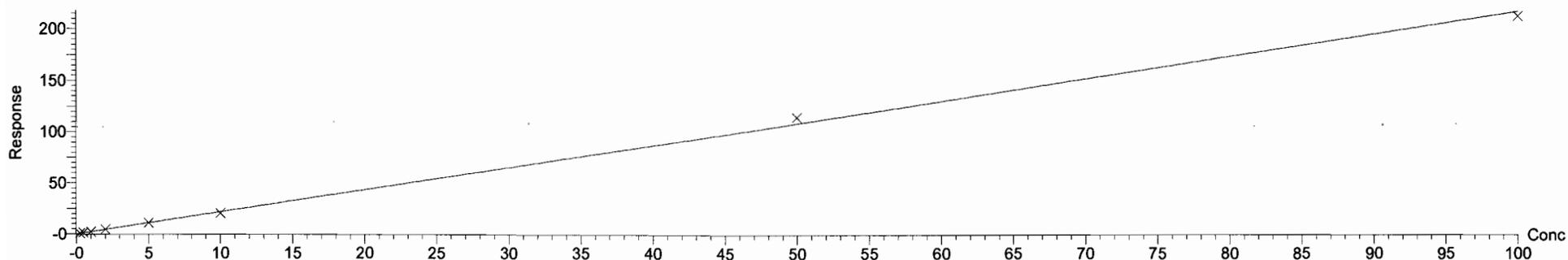
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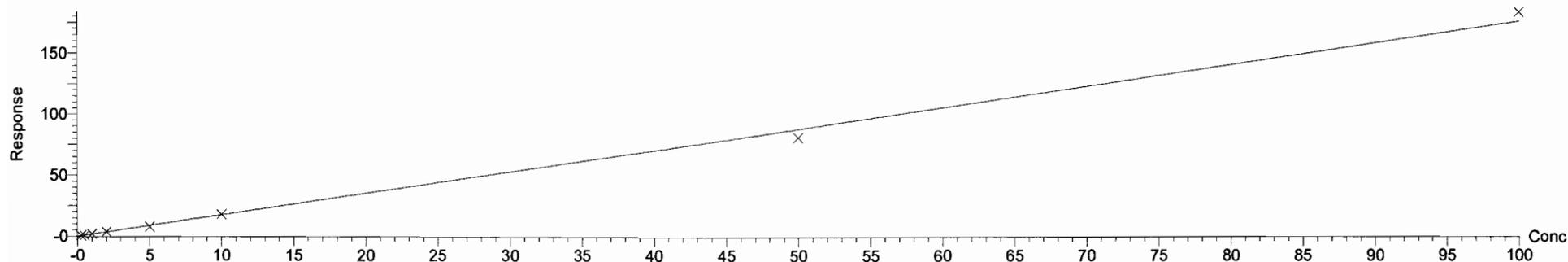
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:27 Pacific Daylight Time

Compound name: PFHpA  
Correlation coefficient:  $r = 0.999208$ ,  $r^2 = 0.998417$   
Calibration curve:  $2.17412 * x + 0.0265335$   
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:  $r = 0.998072$ ,  $r^2 = 0.996148$   
Calibration curve:  $1.75782 * x + -0.0202688$   
Response type: Internal Std ( Ref 16 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

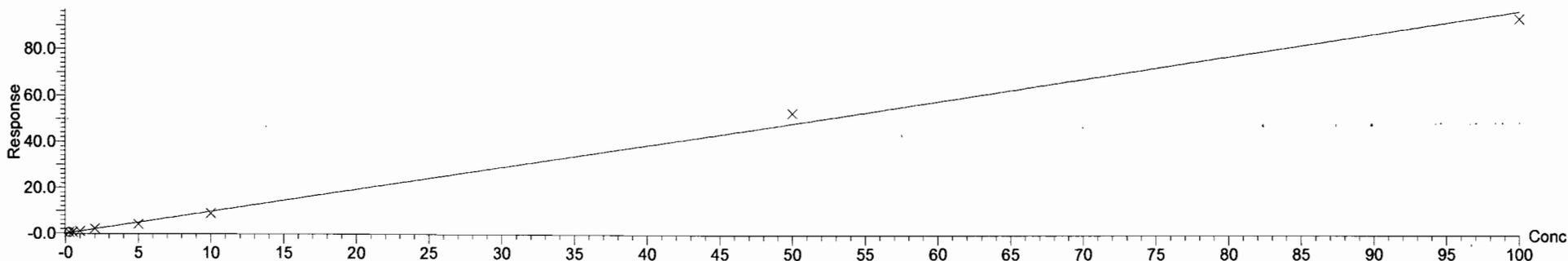




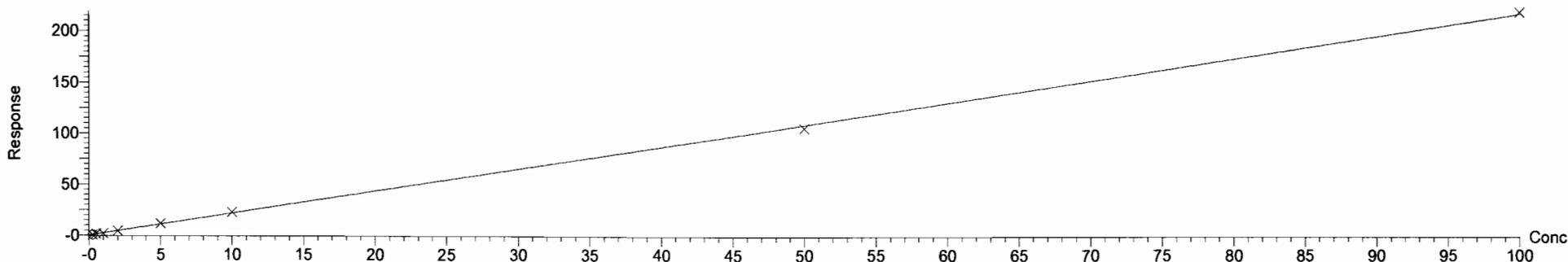
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:27 Pacific Daylight Time

Compound name: PFOA  
Correlation coefficient:  $r = 0.997421$ ,  $r^2 = 0.994848$   
Calibration curve:  $0.967985 * x + 0.00749121$   
Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



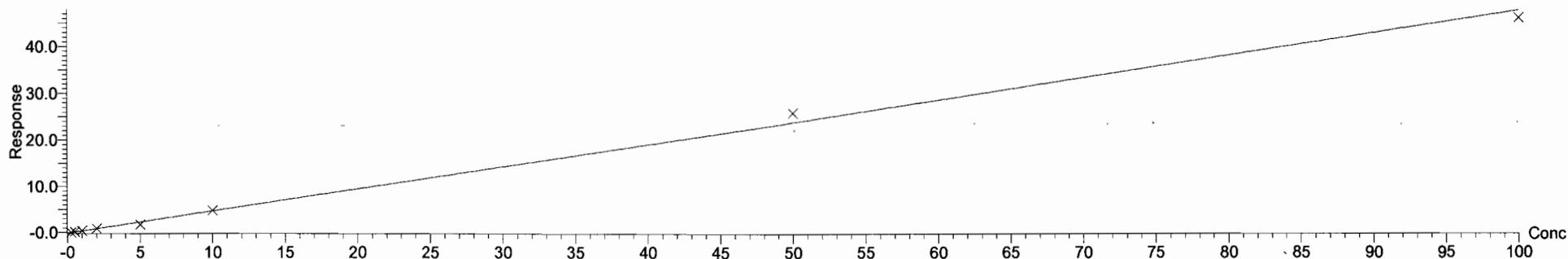
Compound name: PFNA  
Correlation coefficient:  $r = 0.999391$ ,  $r^2 = 0.998782$   
Calibration curve:  $2.16911 * x + 0.163642$   
Response type: Internal Std ( Ref 18 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



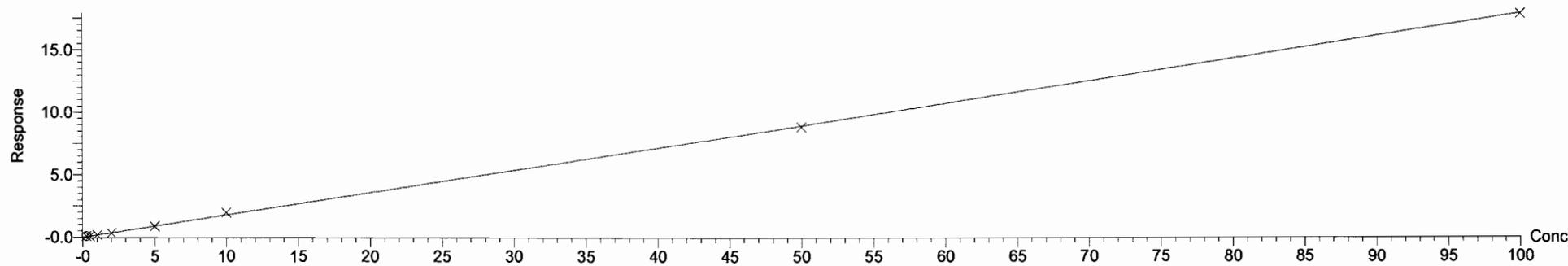
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:27 Pacific Daylight Time

Compound name: PFOS  
Correlation coefficient:  $r = 0.997594$ ,  $r^2 = 0.995193$   
Calibration curve:  $0.480073 * x + -0.0917254$   
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:  $r = 0.999580$ ,  $r^2 = 0.999160$   
Calibration curve:  $0.178859 * x + -0.00989088$   
Response type: Internal Std ( Ref 19 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

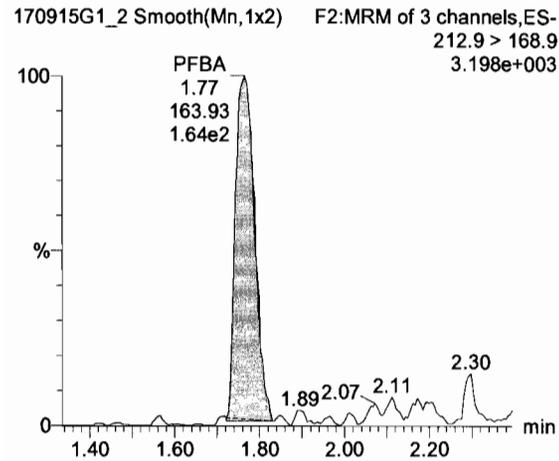
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

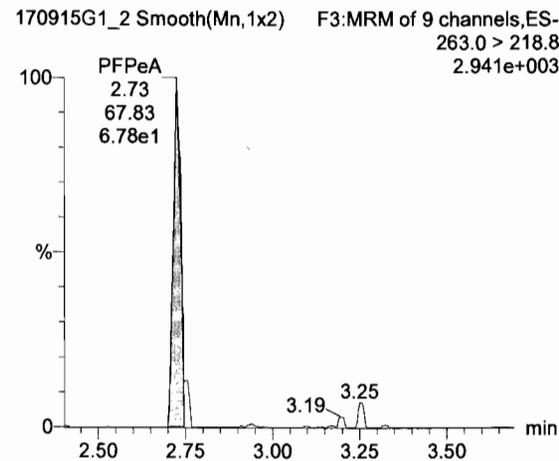
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Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 15 Sep 2017 15:53:33

Name: 170915G1\_2, Date: 15-Sep-2017, Time: 11:59:59, ID: ST170915G1-1 PFC CS-2 1711505, Description: PFC CS-2 1711505

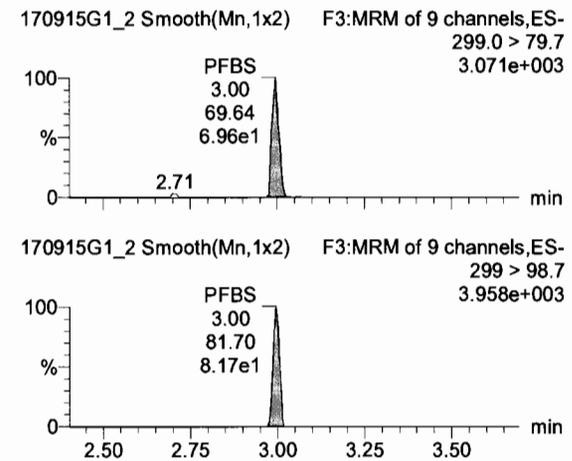
**PFBA**



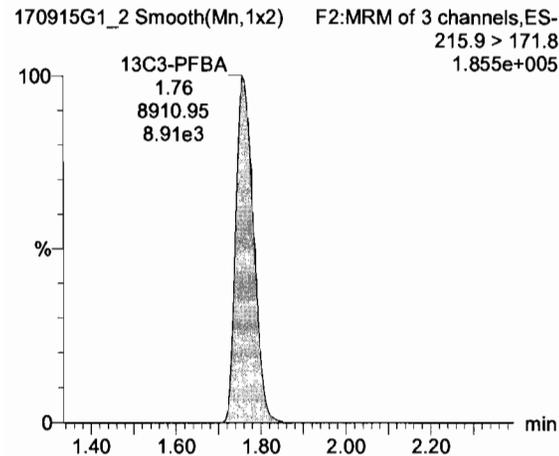
**PFPeA**



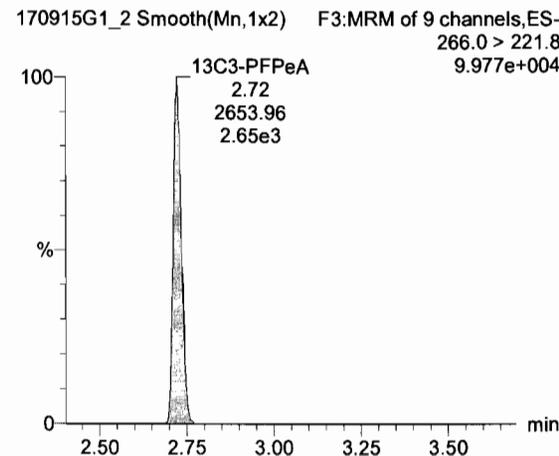
**PFBS**



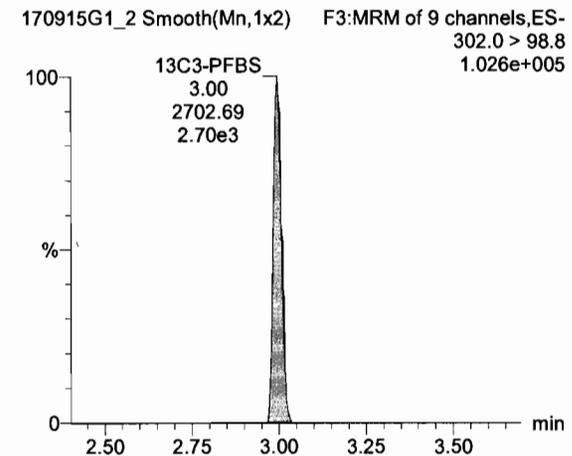
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

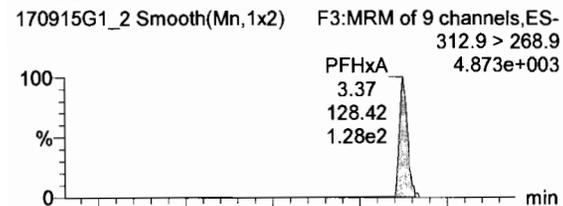


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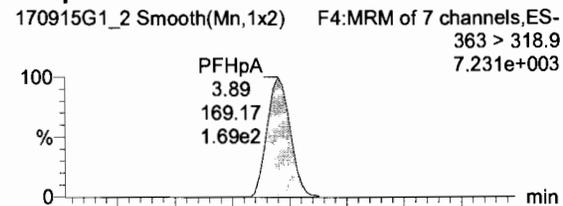
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 Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_2, Date: 15-Sep-2017, Time: 11:59:59, ID: ST170915G1-1 PFC CS-2 1711505, Description: PFC CS-2 1711505

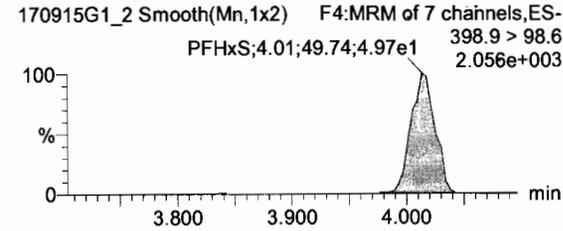
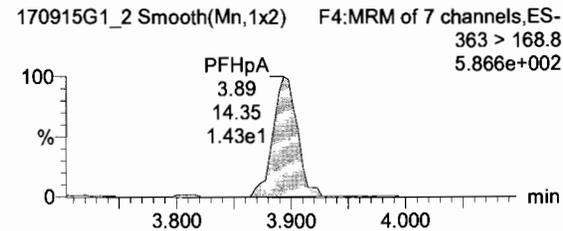
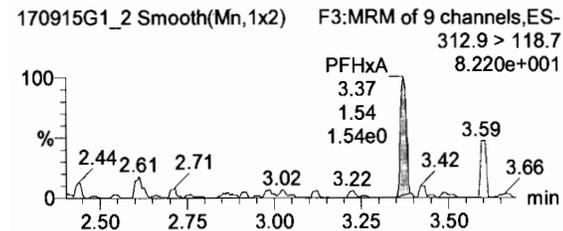
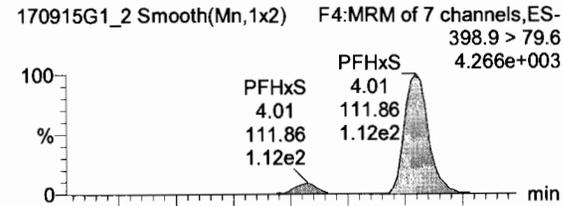
**PFHxA**



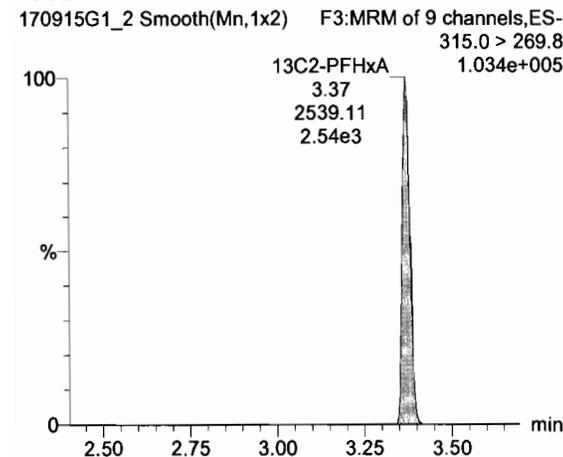
**PFHpA**



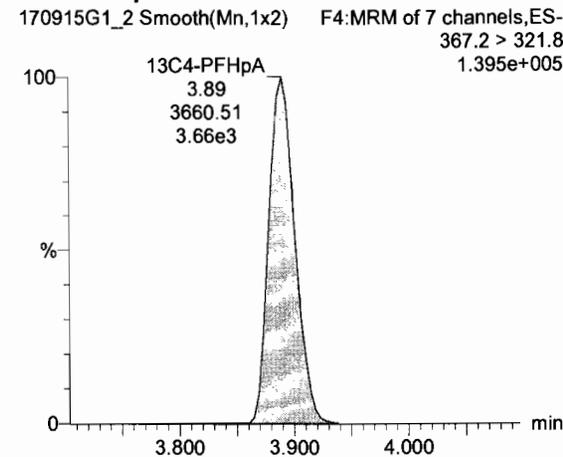
**PFHxS**



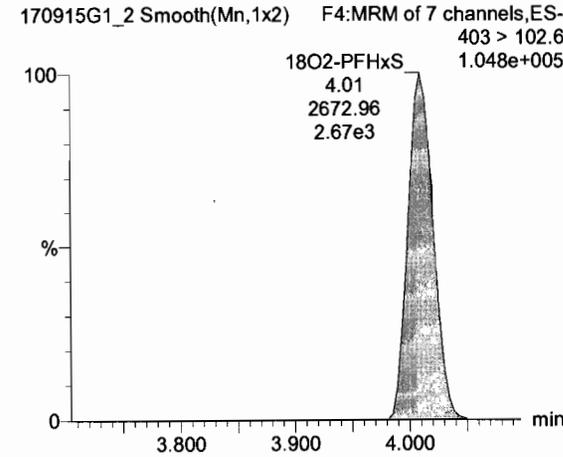
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

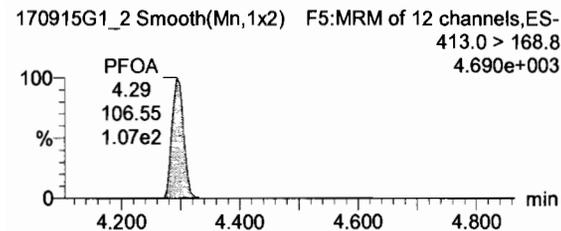
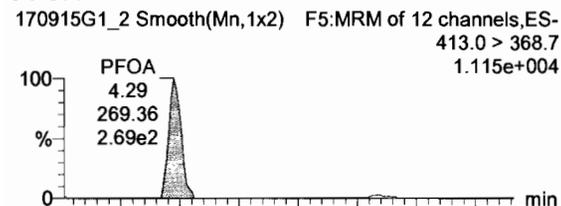


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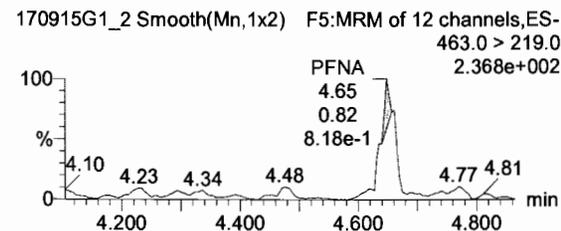
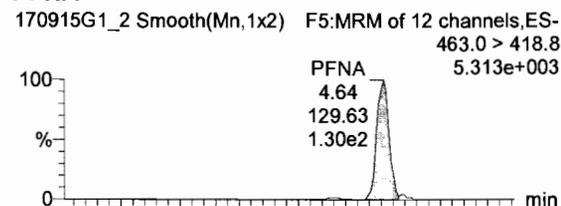
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Name: 170915G1\_2, Date: 15-Sep-2017, Time: 11:59:59, ID: ST170915G1-1 PFC CS-2 1711505, Description: PFC CS-2 1711505

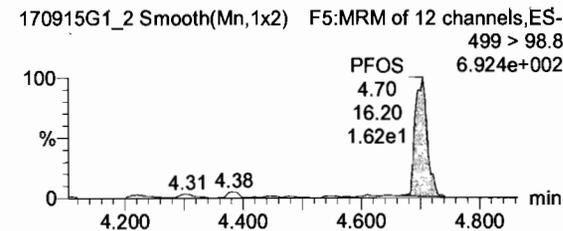
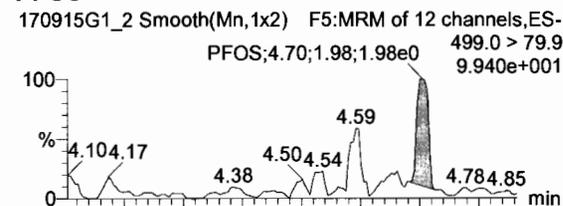
**PFOA**



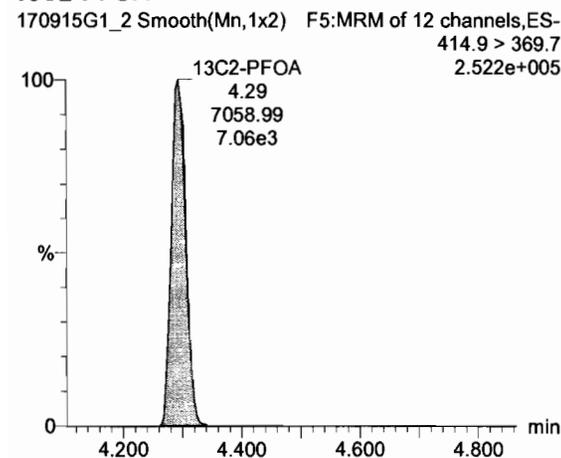
**PFNA**



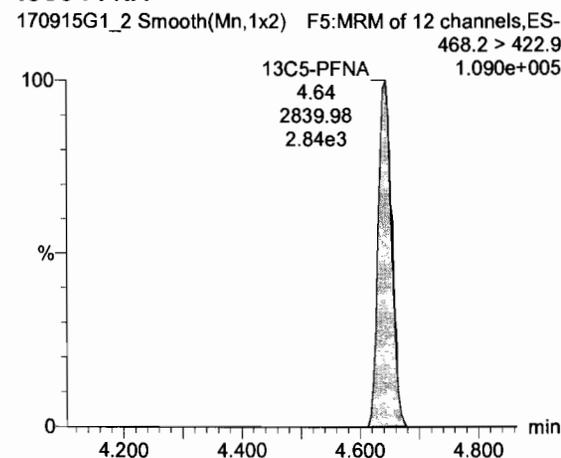
**PFOS**



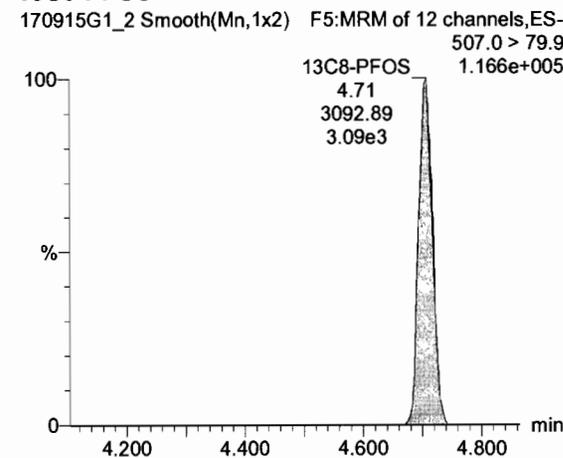
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



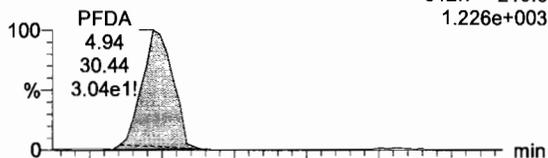
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

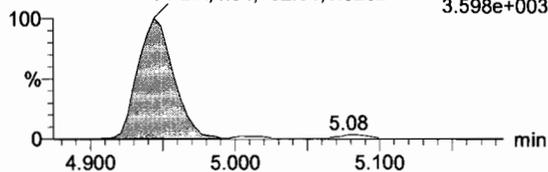
Name: 170915G1\_2, Date: 15-Sep-2017, Time: 11:59:59, ID: ST170915G1-1 PFC CS-2 1711505, Description: PFC CS-2 1711505

**PFDA**

170915G1\_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
1.226e+003

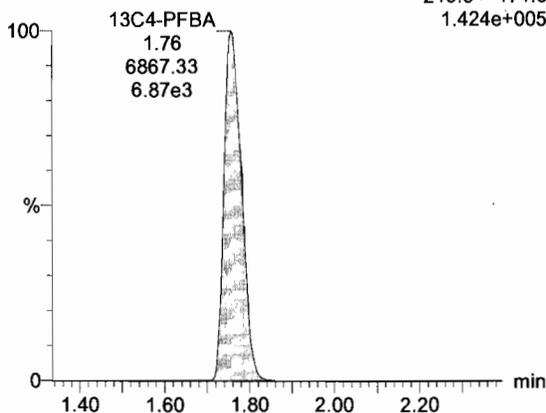


170915G1\_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
3.598e+003



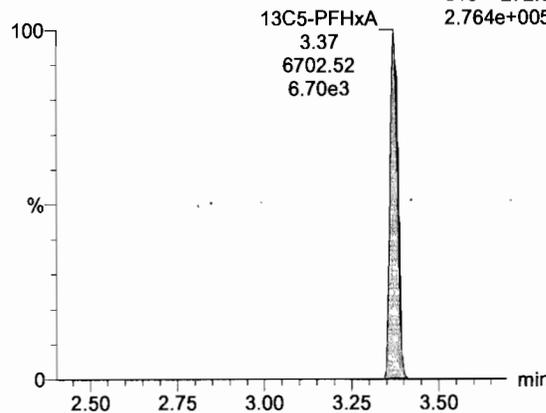
**13C4-PFBA**

170915G1\_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
1.424e+005



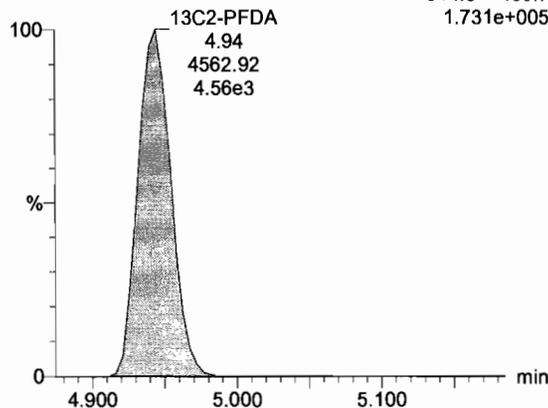
**13C5-PFHxA**

170915G1\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
2.764e+005



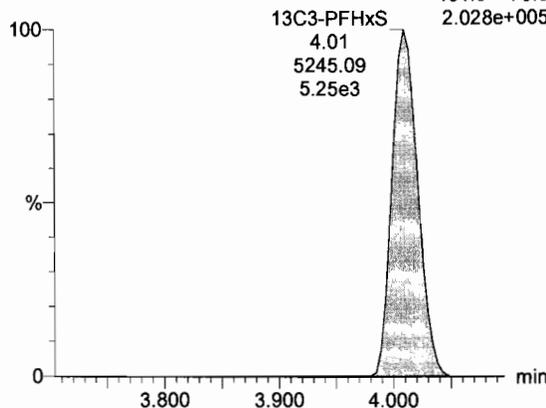
**13C2-PFDA**

170915G1\_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
1.731e+005



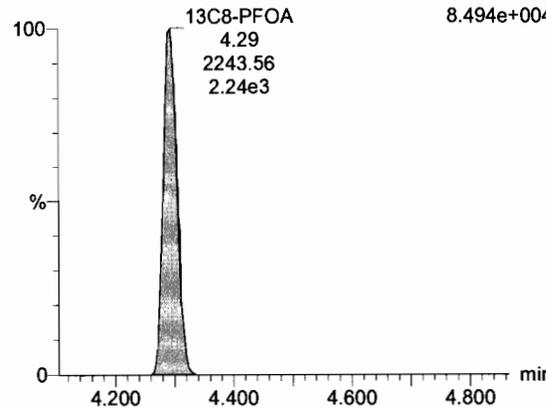
**13C3-PFHxS**

170915G1\_2 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
2.028e+005



**13C8-PFOA**

170915G1\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
8.494e+004



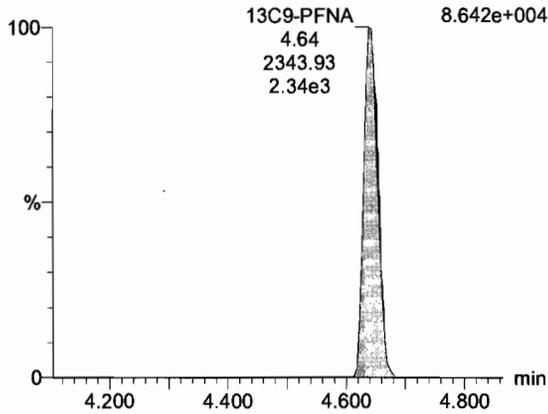
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
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Name: 170915G1\_2, Date: 15-Sep-2017, Time: 11:59:59, ID: ST170915G1-1 PFC CS-2 1711505, Description: PFC CS-2 1711505

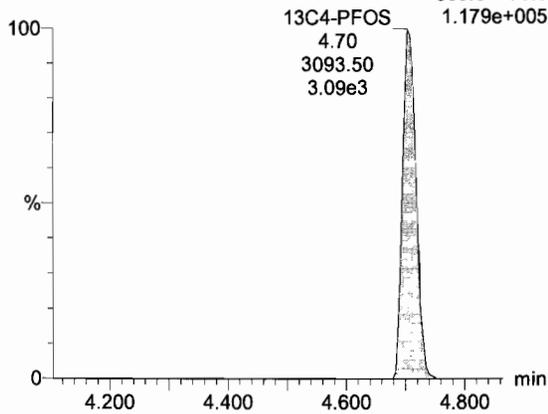
**13C9-PFNA**

170915G1\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
8.642e+004



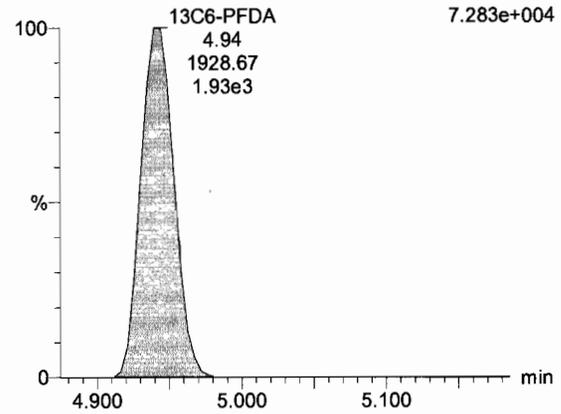
**13C4-PFOS**

170915G1\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.179e+005



**13C6-PFDA**

170915G1\_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
7.283e+004



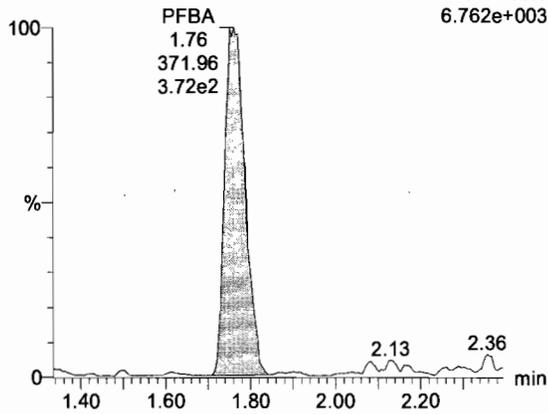
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Name: 170915G1\_3, Date: 15-Sep-2017, Time: 12:12:29, ID: ST170915G1-2 PFC CS-1 1711506, Description: PFC CS-1 1711506

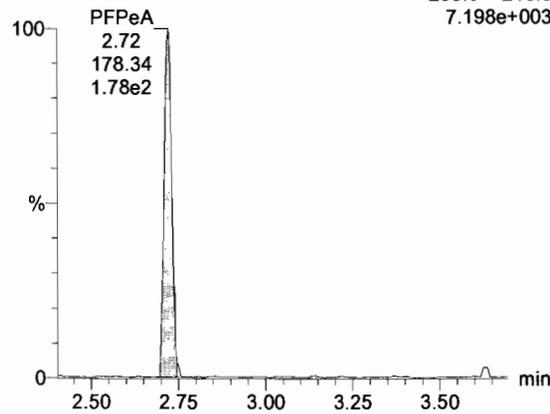
**PFBA**

170915G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
6.762e+003



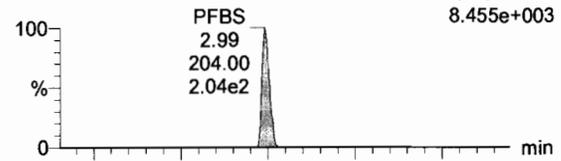
**PFPeA**

170915G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
7.198e+003

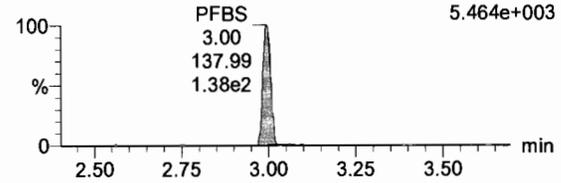


**PFBS**

170915G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
8.455e+003

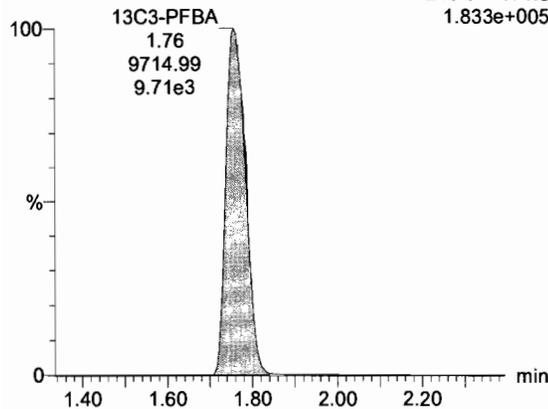


170915G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
5.464e+003



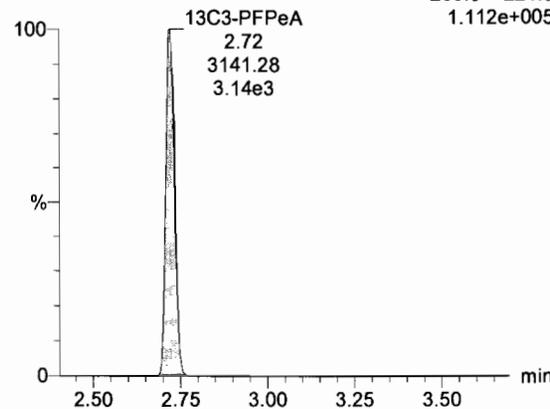
**13C3-PFBA**

170915G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
1.833e+005



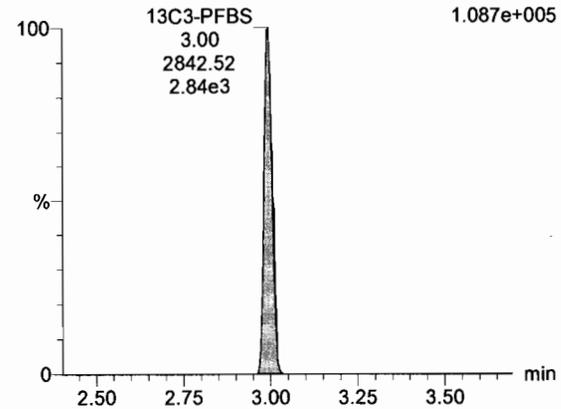
**13C3-PFPeA**

170915G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
1.112e+005



**13C3-PFBS**

170915G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
1.087e+005





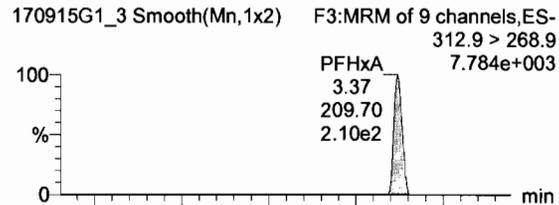
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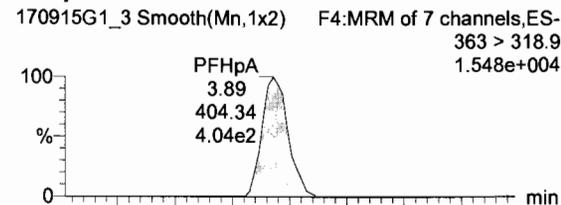
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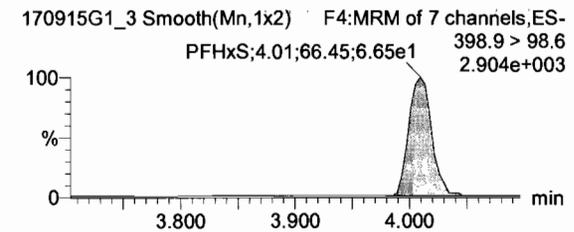
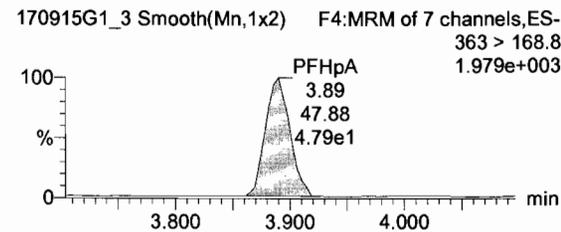
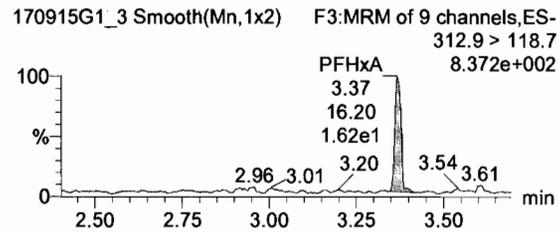
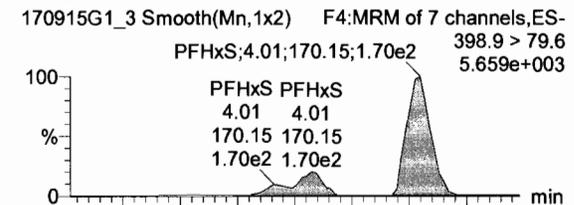
**PFHxA**



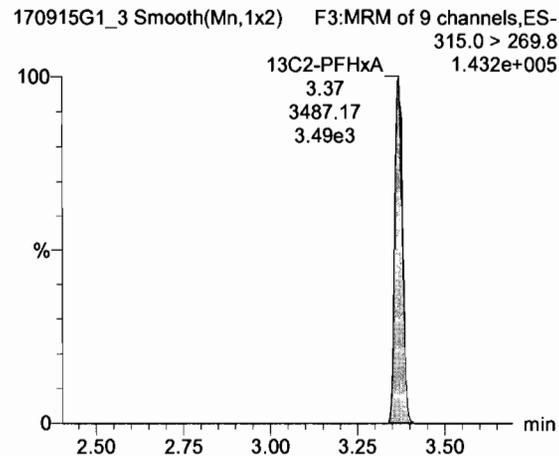
**PFHpA**



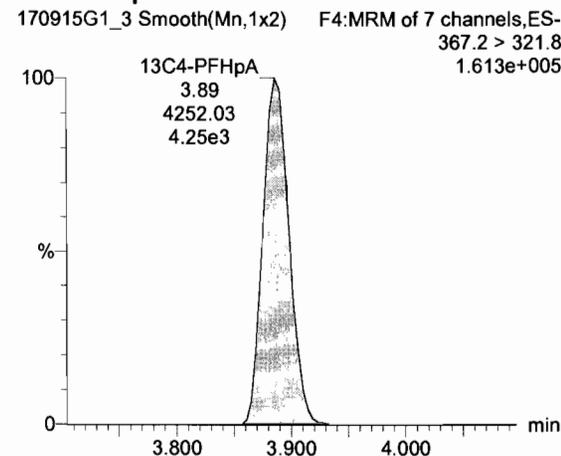
**PFHxS**



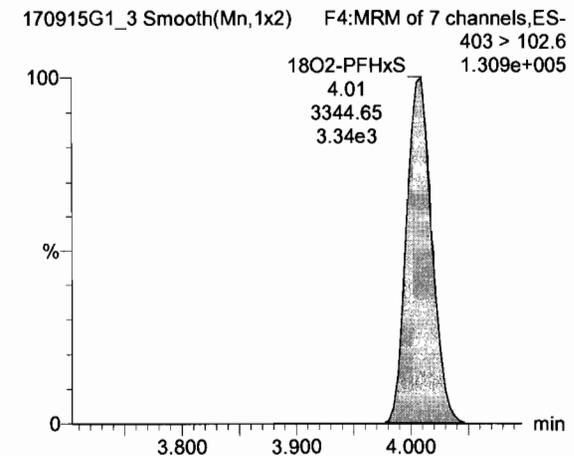
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

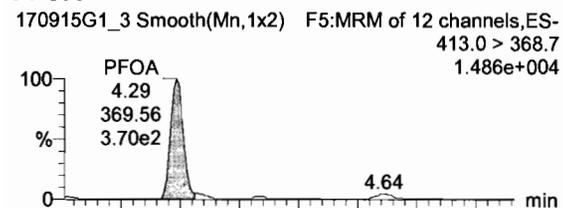


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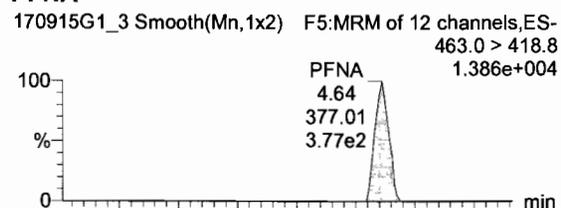
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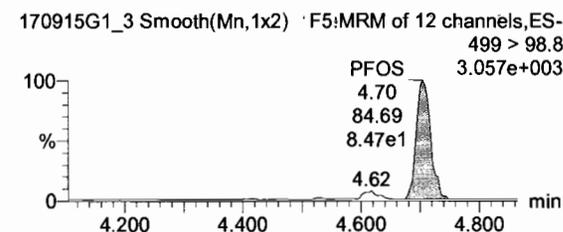
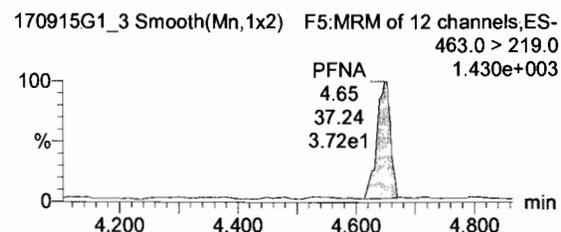
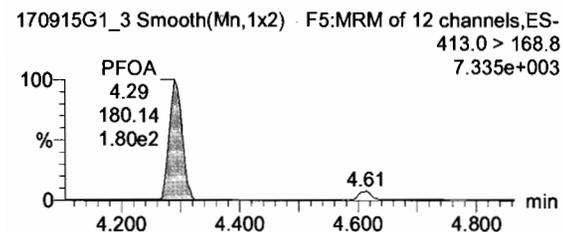
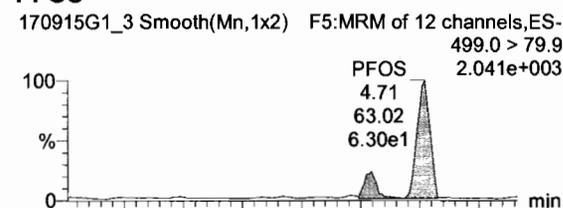
**PFOA**



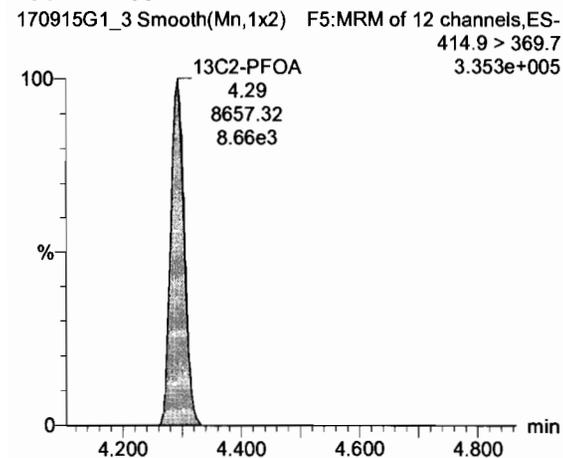
**PFNA**



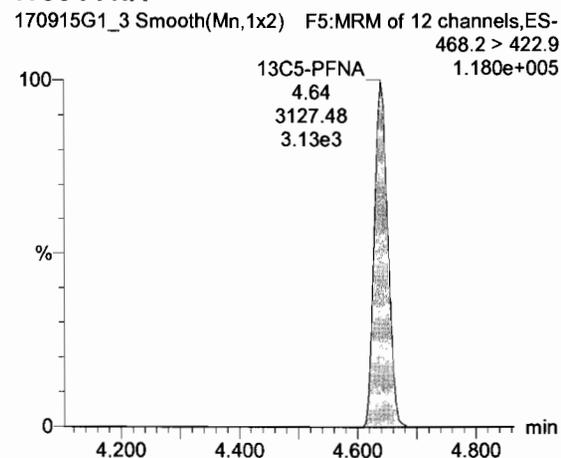
**PFOS**



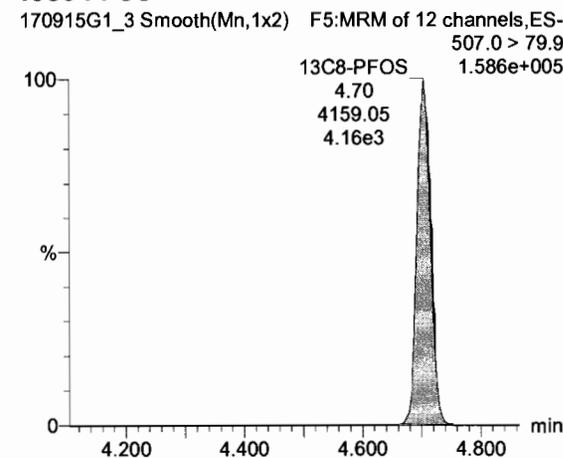
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



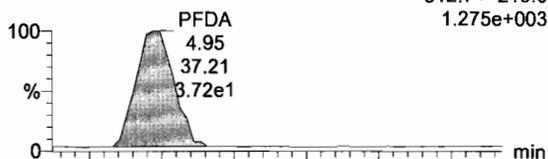
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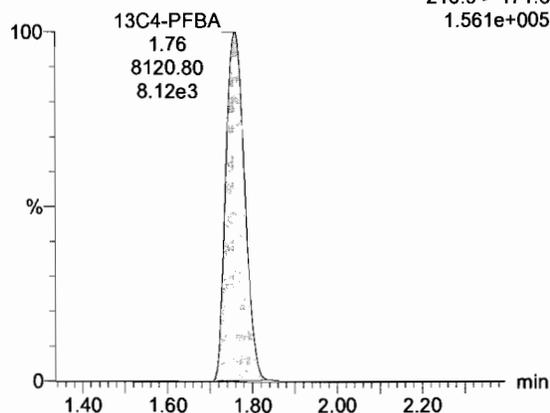
**PFDA**

170915G1\_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
1.275e+003



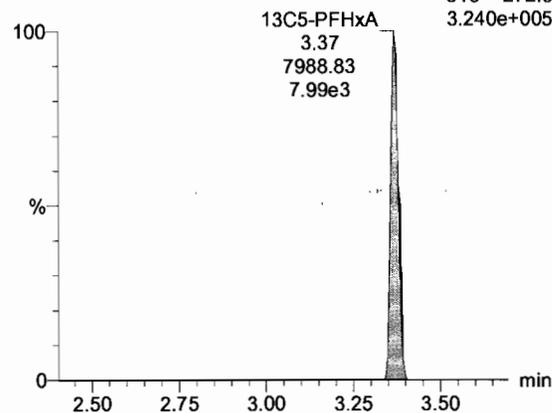
**13C4-PFBA**

170915G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
1.561e+005

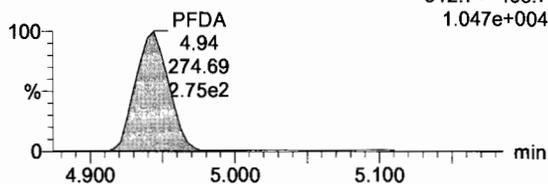


**13C5-PFHxA**

170915G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
3.240e+005

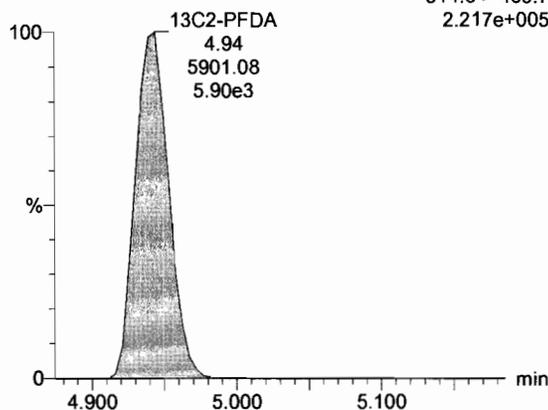


170915G1\_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
1.047e+004



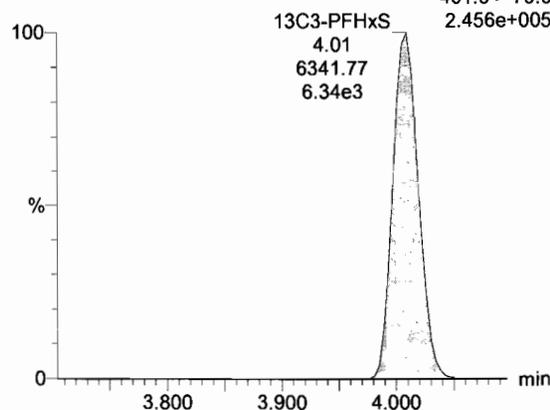
**13C2-PFDA**

170915G1\_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
2.217e+005



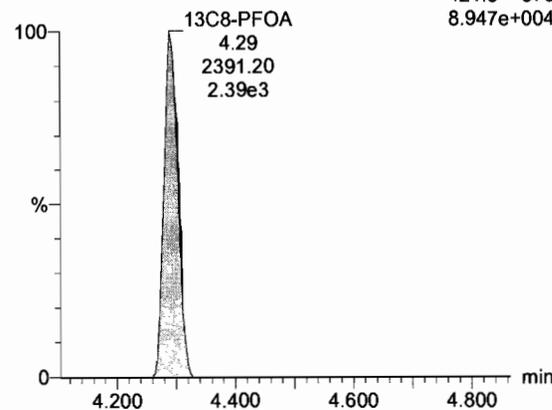
**13C3-PFHxS**

170915G1\_3 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
2.456e+005



**13C8-PFOA**

170915G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
8.947e+004



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

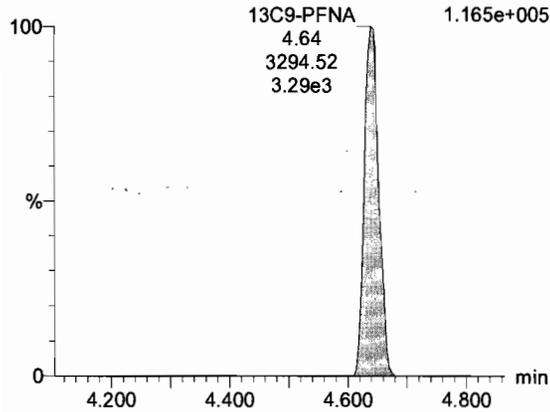
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Name: 170915G1\_3, Date: 15-Sep-2017, Time: 12:12:29, ID: ST170915G1-2 PFC CS-1 1711506, Description: PFC CS-1 1711506

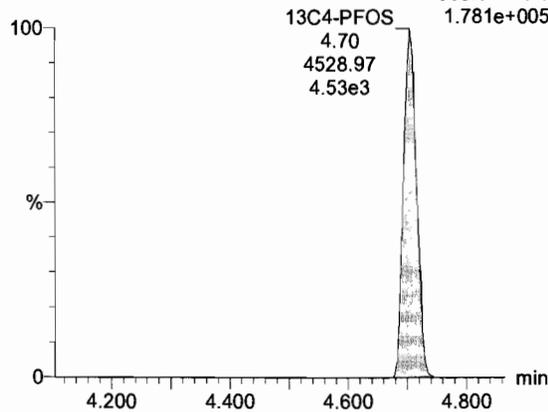
**13C9-PFNA**

170915G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
1.165e+005



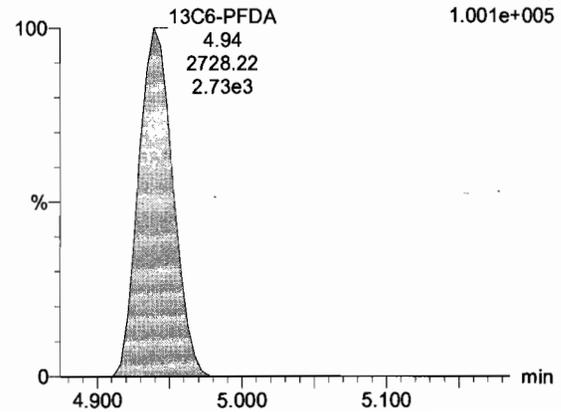
**13C4-PFOS**

170915G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.781e+005



**13C6-PFDA**

170915G1\_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
1.001e+005



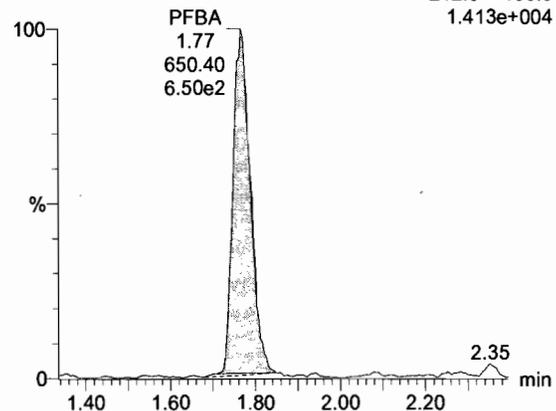
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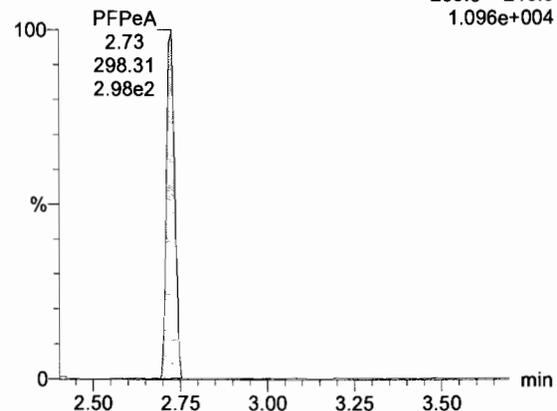
**PFBA**

170915G1\_4 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
1.413e+004



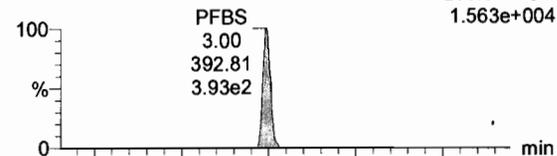
**PFPeA**

170915G1\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
1.096e+004

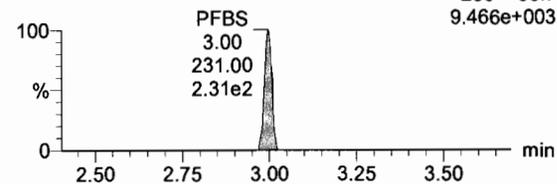


**PFBS**

170915G1\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.563e+004

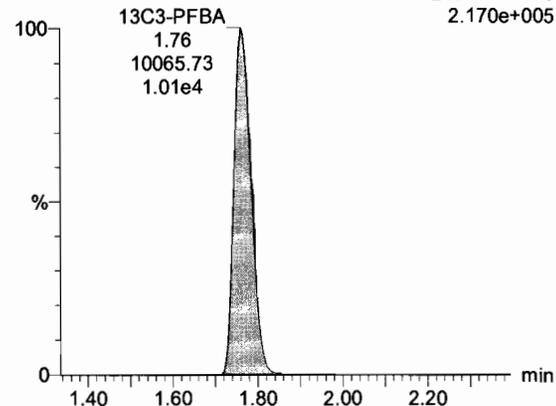


170915G1\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
9.466e+003



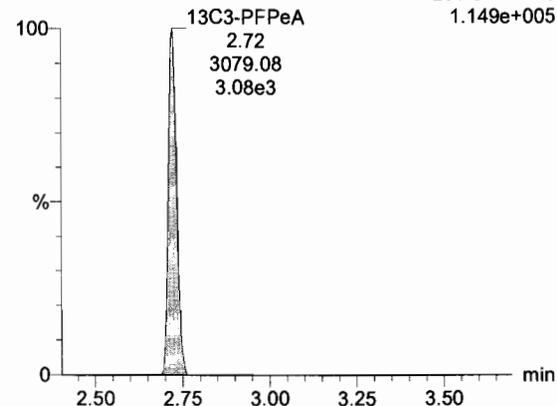
**13C3-PFBA**

170915G1\_4 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
2.170e+005



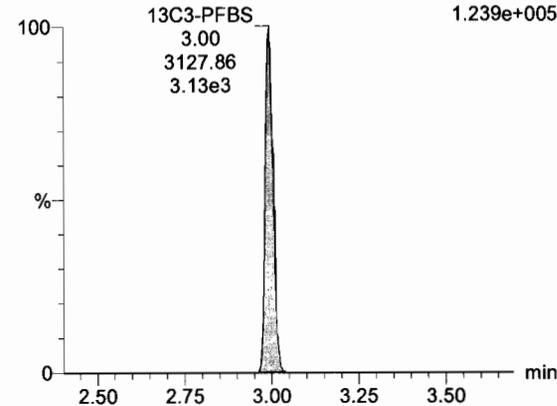
**13C3-PFPeA**

170915G1\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
1.149e+005



**13C3-PFBS**

170915G1\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
1.239e+005

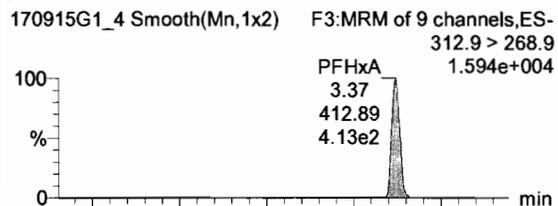


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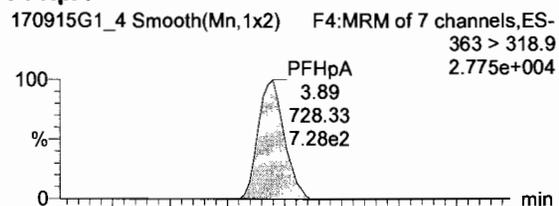
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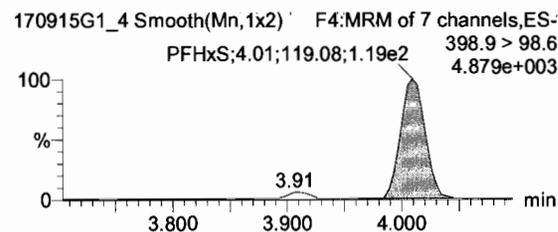
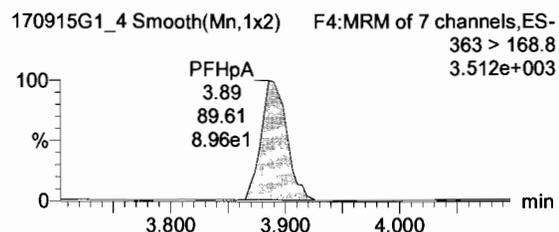
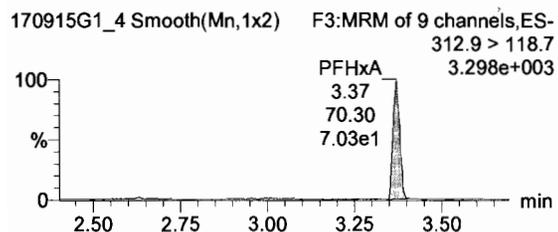
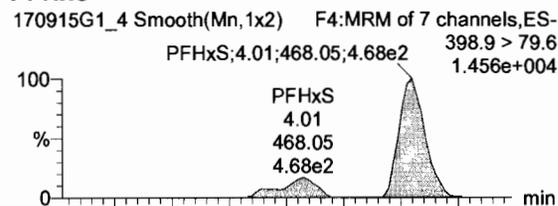
**PFHxA**



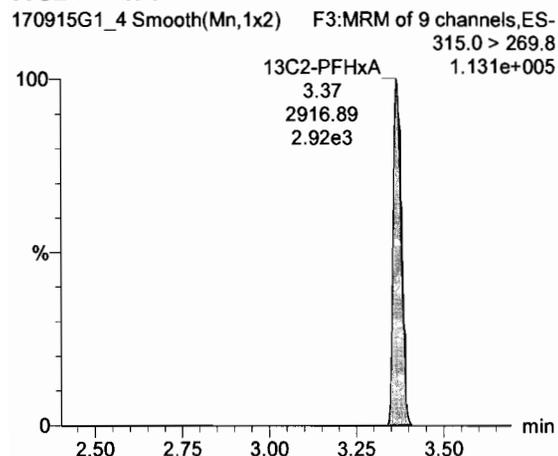
**PFHpA**



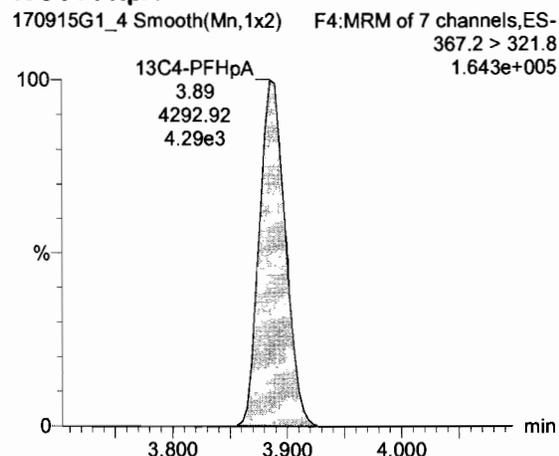
**PFHxS**



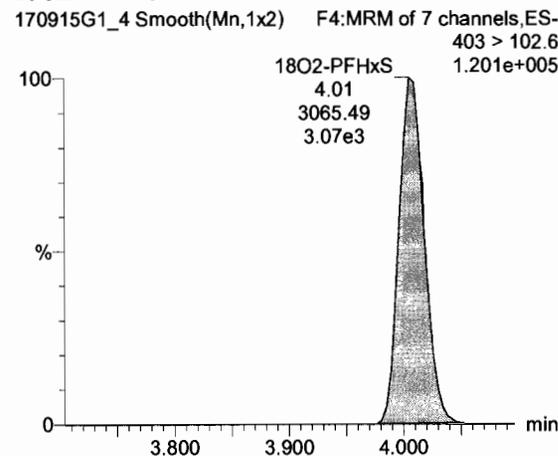
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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Name: 170915G1\_4, Date: 15-Sep-2017, Time: 12:25:02, ID: ST170915G1-3 PFC CS0 1711507, Description: PFC CS0 1711507

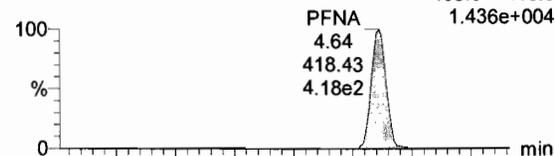
**PFOA**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7  
2.681e+004



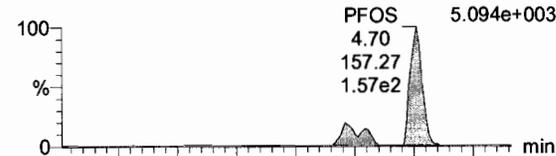
**PFNA**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8  
1.436e+004

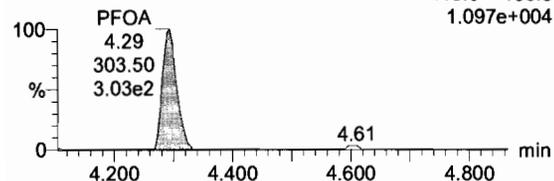


**PFOS**

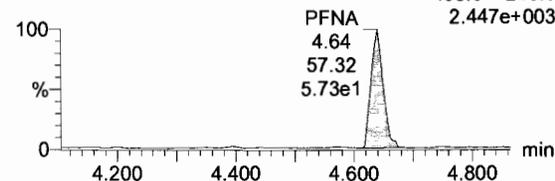
170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9  
5.094e+003



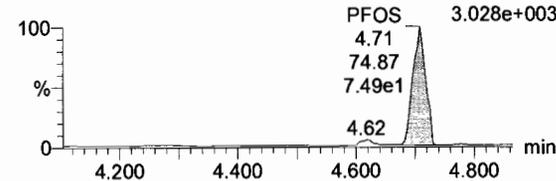
170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8  
1.097e+004



170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0  
2.447e+003

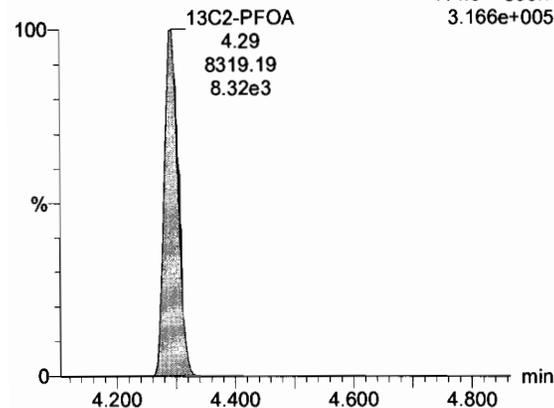


170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8  
3.028e+003



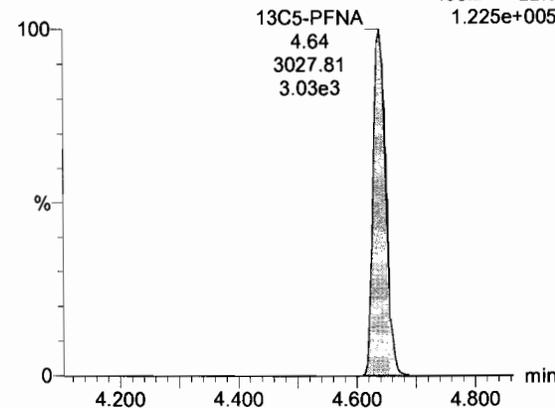
**13C2-PFOA**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7  
3.166e+005



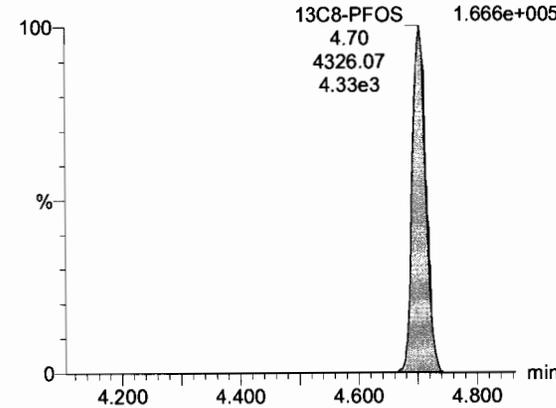
**13C5-PFNA**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-468.2 > 422.9  
1.225e+005



**13C8-PFOS**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-507.0 > 79.9  
1.666e+005



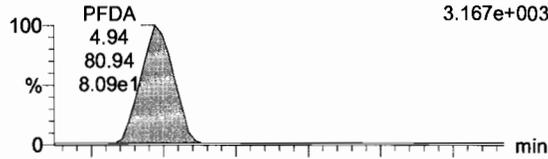
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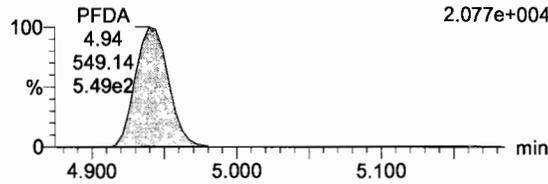
Name: 170915G1\_4, Date: 15-Sep-2017, Time: 12:25:02, ID: ST170915G1-3 PFC CS0 1711507, Description: PFC CS0 1711507

**PFDA**

170915G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
3.167e+003

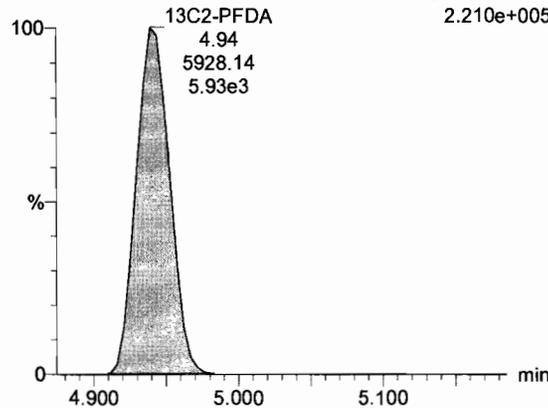


170915G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
2.077e+004



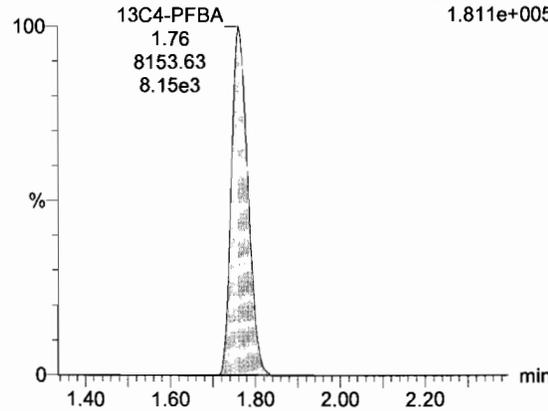
**13C2-PFDA**

170915G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
2.210e+005



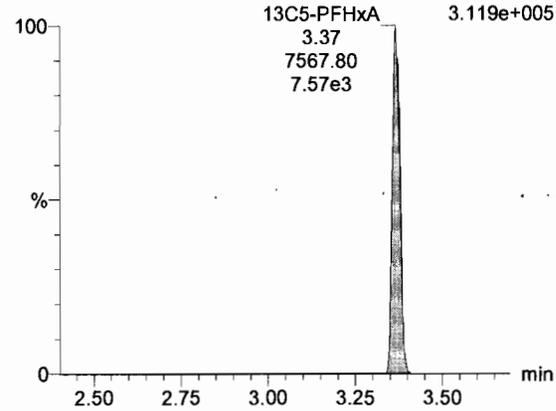
**13C4-PFBA**

170915G1\_4 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
1.811e+005



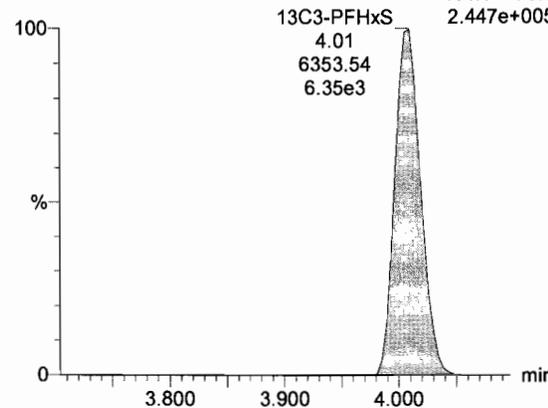
**13C5-PFHxA**

170915G1\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
3.119e+005



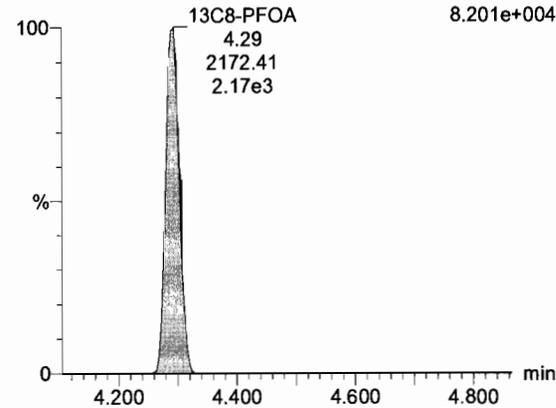
**13C3-PFHxS**

170915G1\_4 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
2.447e+005



**13C8-PFOA**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
8.201e+004





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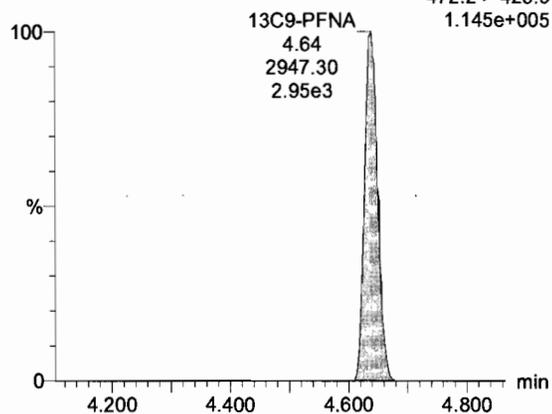
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_4, Date: 15-Sep-2017, Time: 12:25:02, ID: ST170915G1-3 PFC CS0 1711507, Description: PFC CS0 1711507

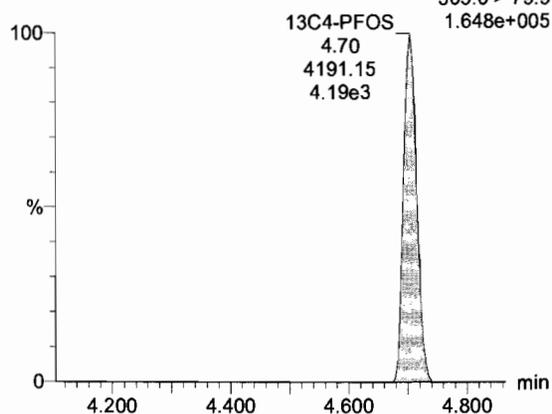
**13C9-PFNA**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
1.145e+005



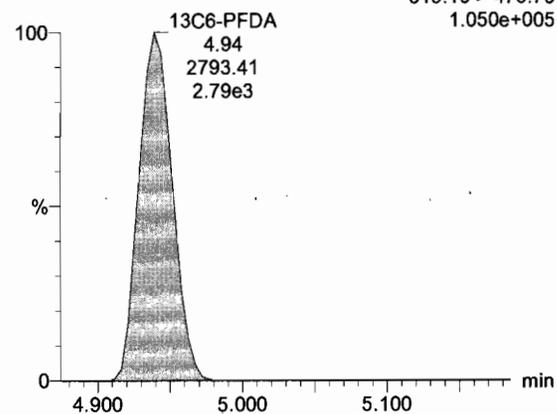
**13C4-PFOS**

170915G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.648e+005



**13C6-PFDA**

170915G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
1.050e+005



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

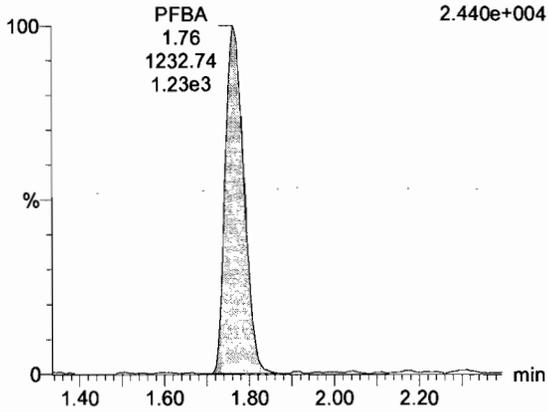
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_5, Date: 15-Sep-2017, Time: 12:37:35, ID: ST170915G1-4 PFC CS1 1711508, Description: PFC CS1 1711508

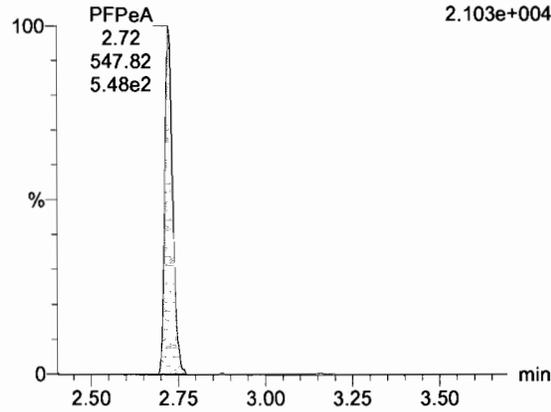
**PFBA**

170915G1\_5 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
2.440e+004



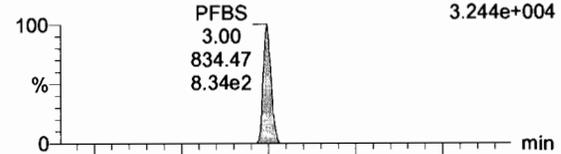
**PFPeA**

170915G1\_5 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
2.103e+004

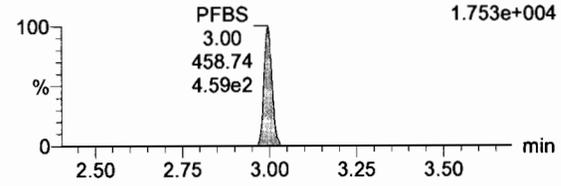


**PFBS**

170915G1\_5 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
3.244e+004

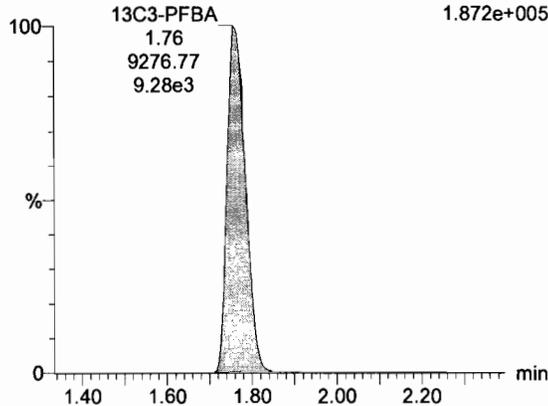


170915G1\_5 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
1.753e+004



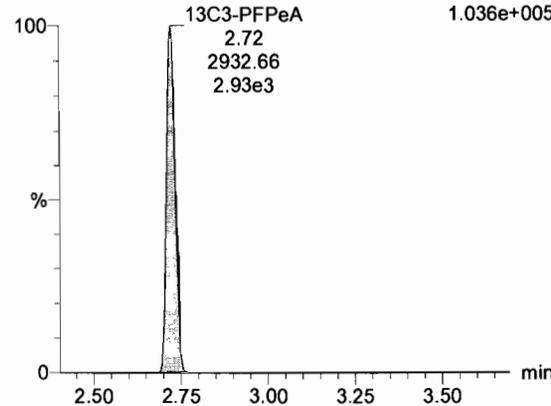
**13C3-PFBA**

170915G1\_5 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
1.872e+005



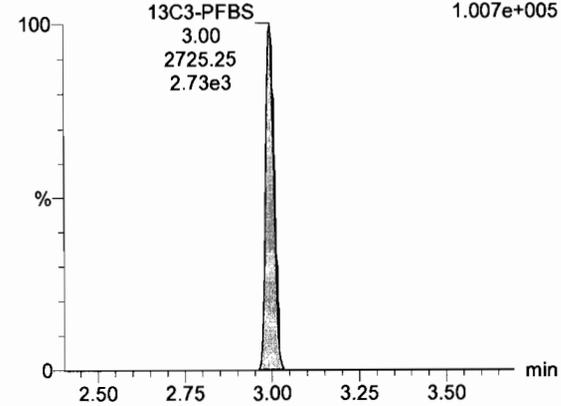
**13C3-PFPeA**

170915G1\_5 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
1.036e+005



**13C3-PFBS**

170915G1\_5 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
1.007e+005



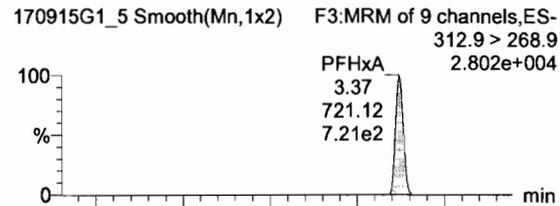
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time

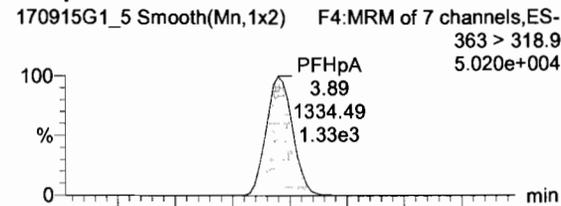
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Name: 170915G1\_5, Date: 15-Sep-2017, Time: 12:37:35, ID: ST170915G1-4 PFC CS1 1711508, Description: PFC CS1 1711508

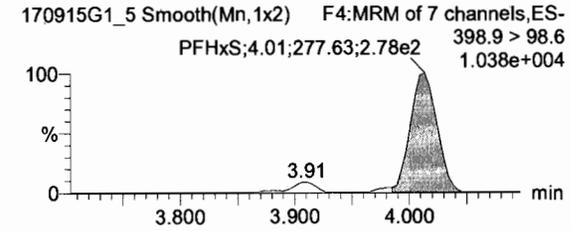
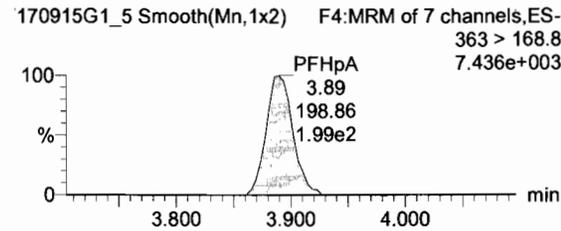
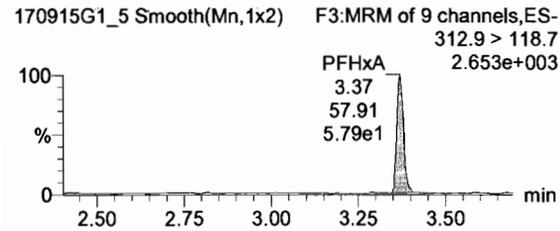
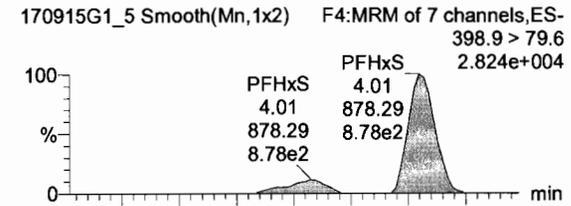
**PFHxA**



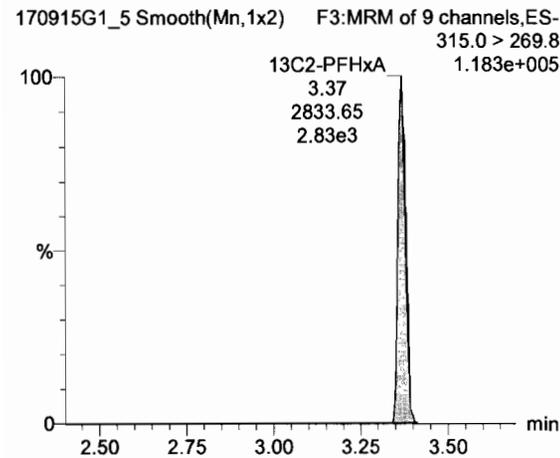
**PFHpA**



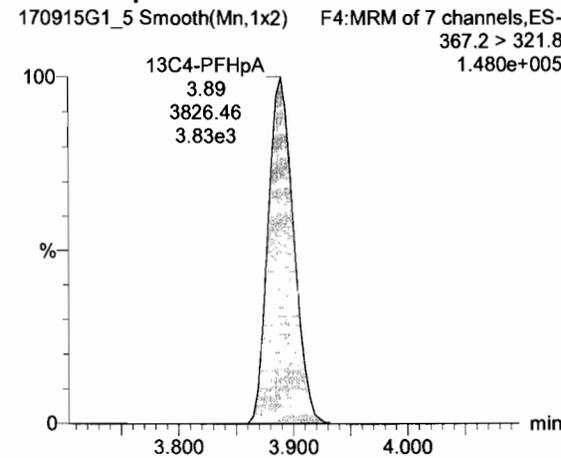
**PFHxS**



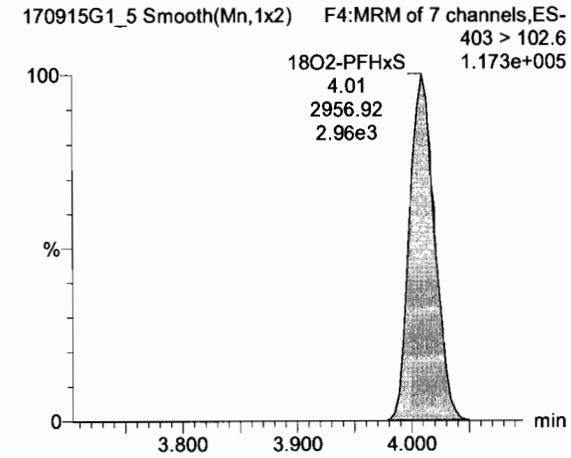
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

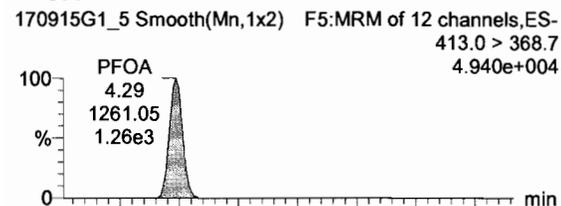


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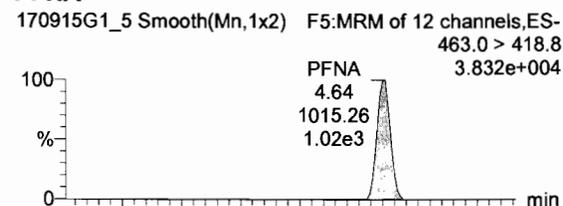
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_5, Date: 15-Sep-2017, Time: 12:37:35, ID: ST170915G1-4 PFC CS1 1711508, Description: PFC CS1 1711508

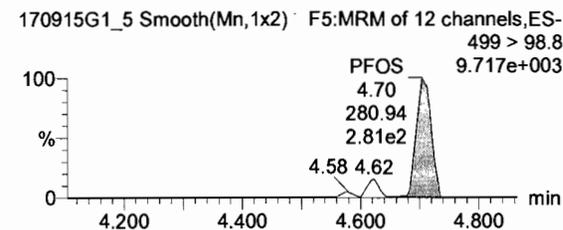
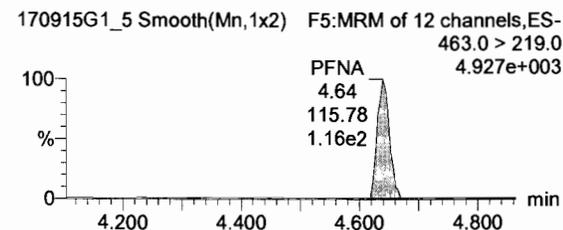
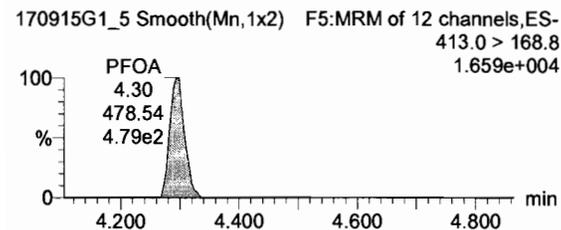
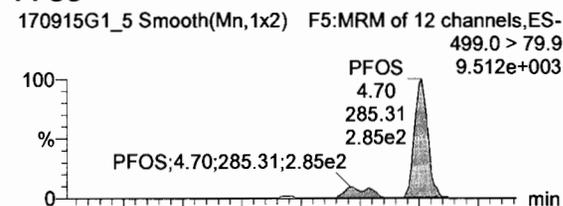
**PFOA**



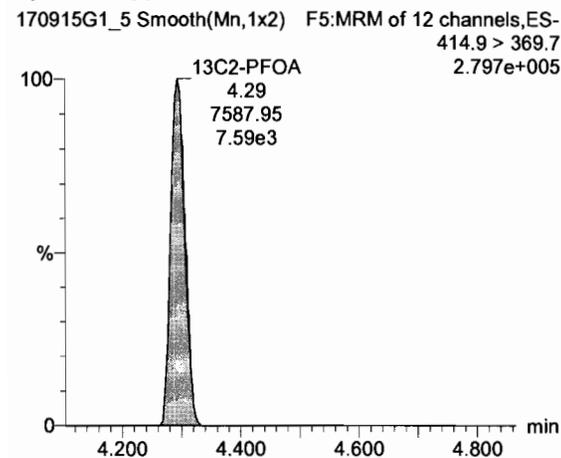
**PFNA**



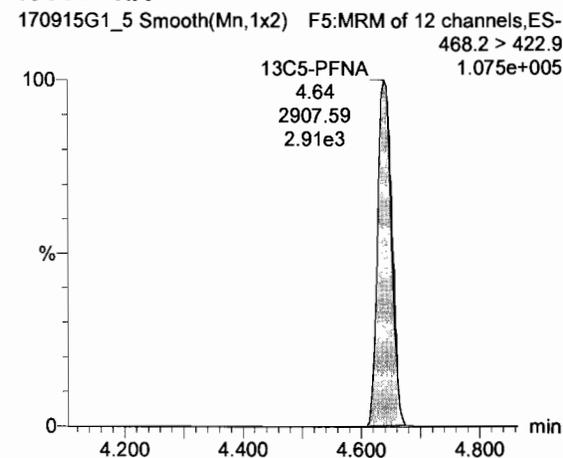
**PFOS**



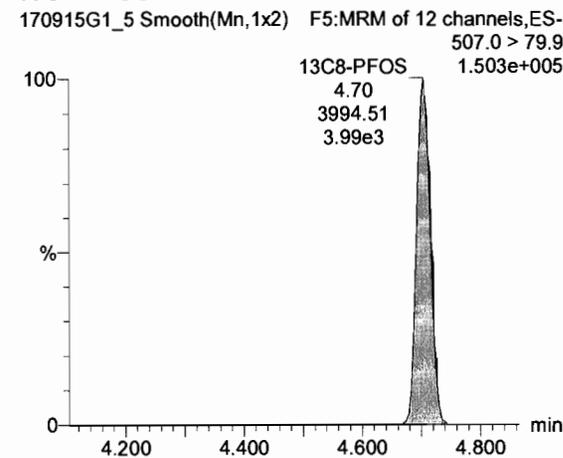
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**

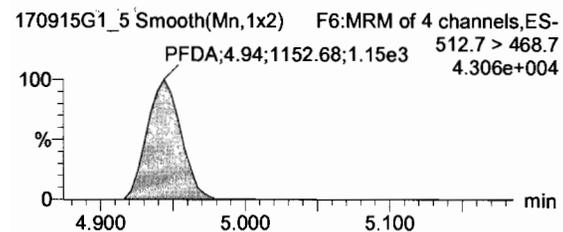
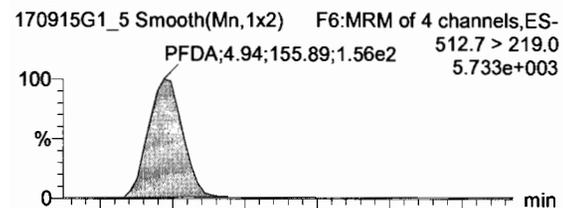


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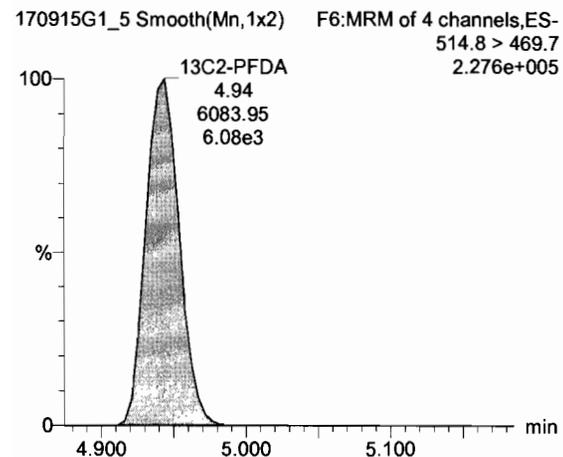
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_5, Date: 15-Sep-2017, Time: 12:37:35, ID: ST170915G1-4 PFC CS1 1711508, Description: PFC CS1 1711508

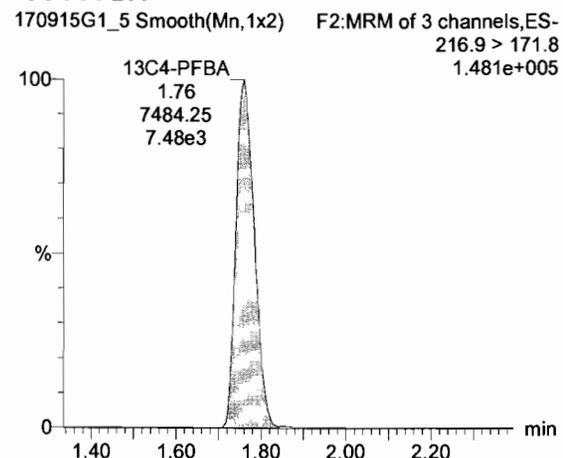
**PFDA**



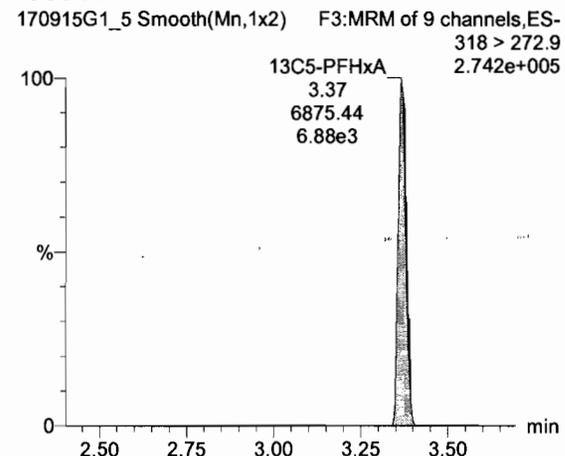
**13C2-PFDA**



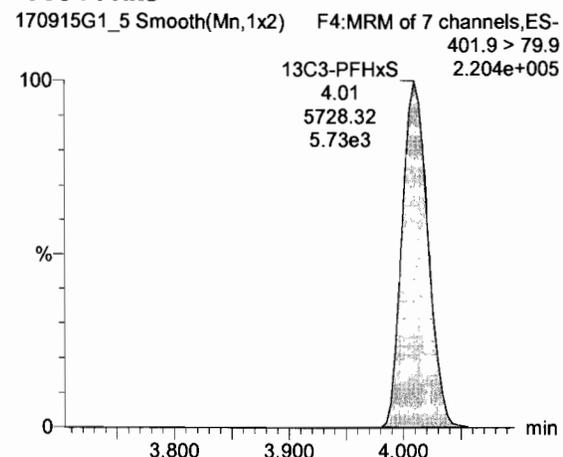
**13C4-PFBA**



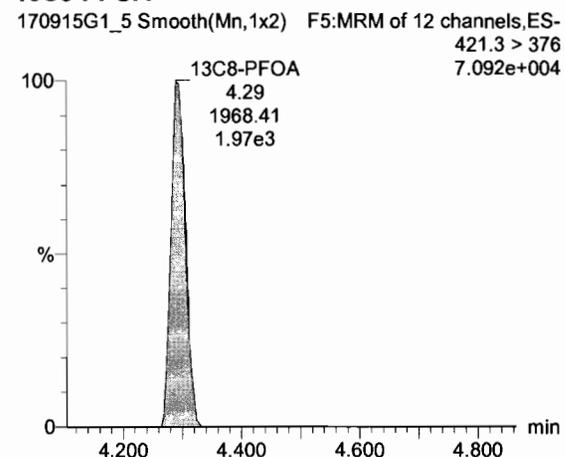
**13C5-PFHxA**



**13C3-PFHxS**



**13C8-PFOA**



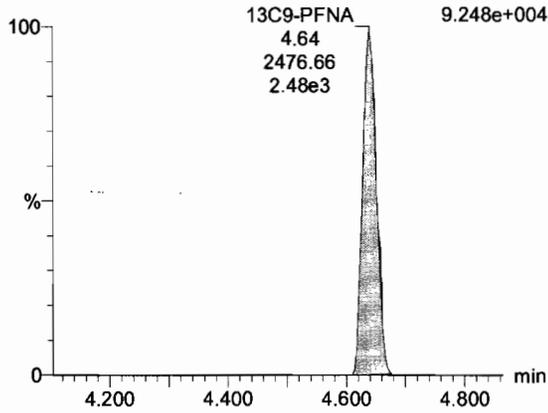
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_5, Date: 15-Sep-2017, Time: 12:37:35, ID: ST170915G1-4 PFC CS1 17I1508, Description: PFC CS1 17I1508

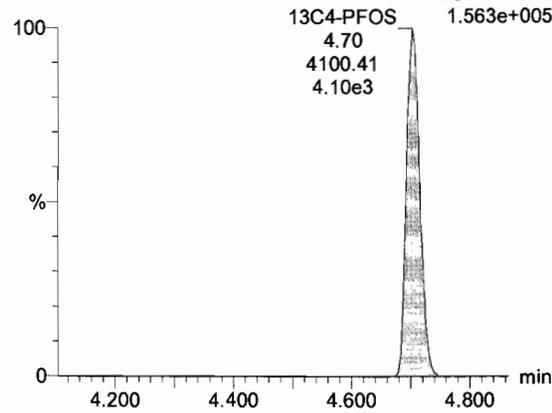
**13C9-PFNA**

170915G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
9.248e+004



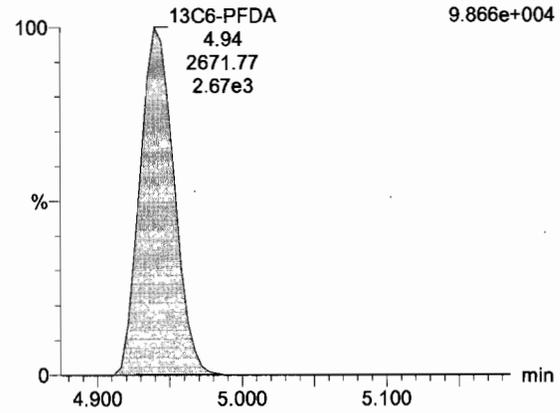
**13C4-PFOS**

170915G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.563e+005



**13C6-PFDA**

170915G1\_5 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
9.866e+004



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

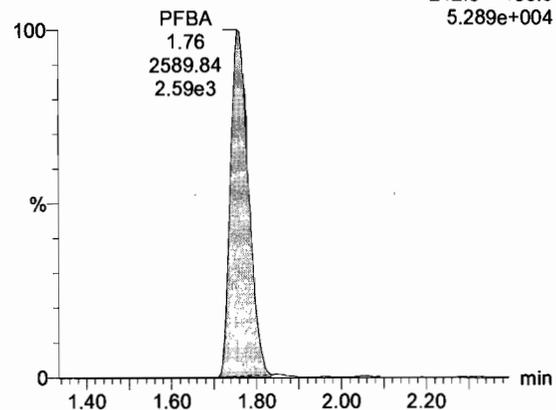
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_6, Date: 15-Sep-2017, Time: 12:50:09, ID: ST170915G1-5 PFC CS2 1711509, Description: PFC CS2 1711509

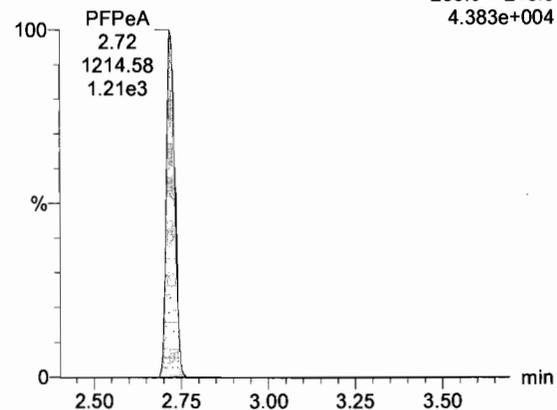
**PFBA**

170915G1\_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
5.289e+004



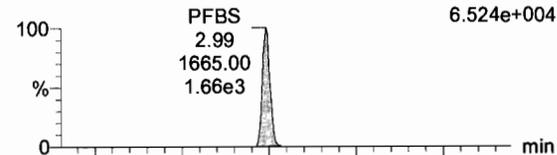
**PFPeA**

170915G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
4.383e+004

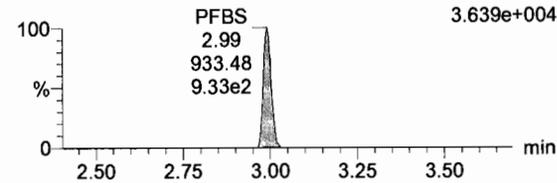


**PFBS**

170915G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
6.524e+004

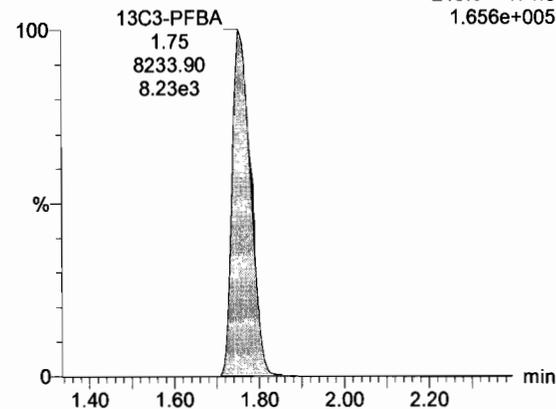


170915G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
3.639e+004



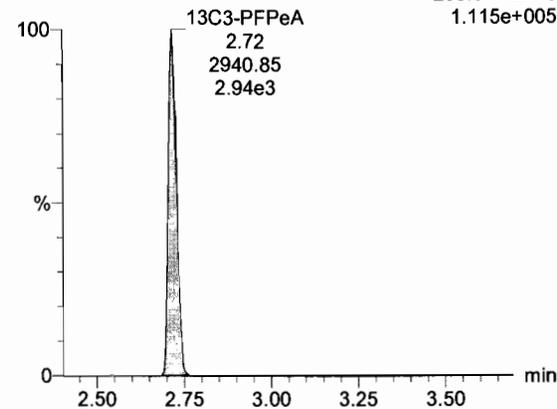
**13C3-PFBA**

170915G1\_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
1.656e+005



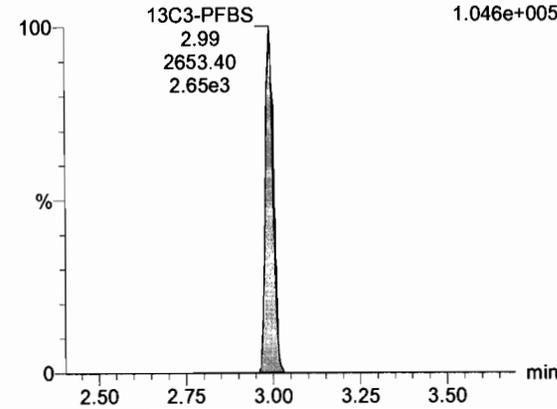
**13C3-PFPeA**

170915G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
1.115e+005



**13C3-PFBS**

170915G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
1.046e+005

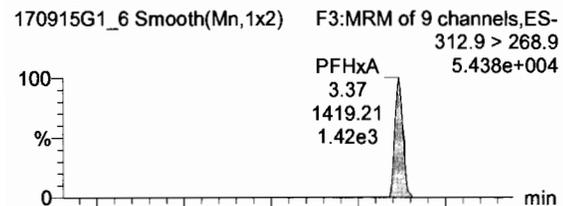


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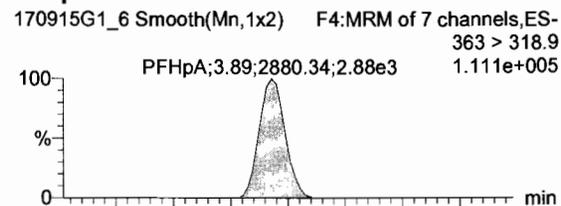
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_6, Date: 15-Sep-2017, Time: 12:50:09, ID: ST170915G1-5 PFC CS2 1711509, Description: PFC CS2 1711509

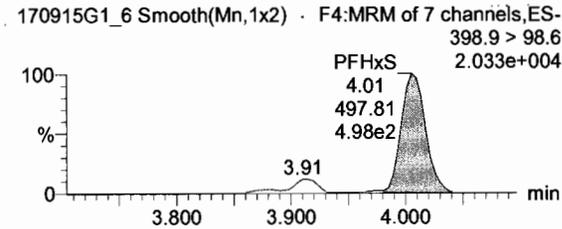
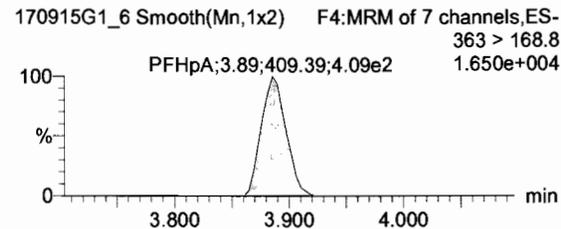
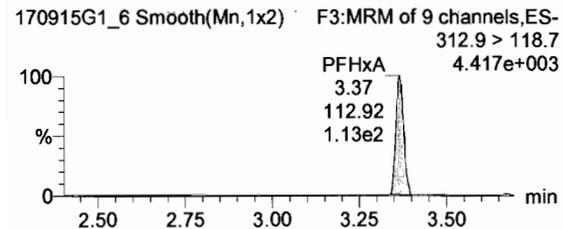
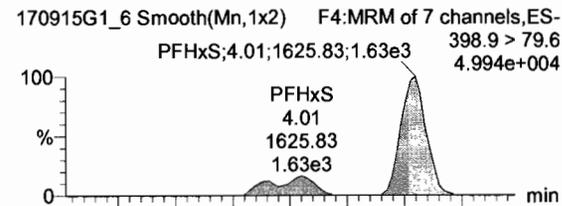
**PFHxA**



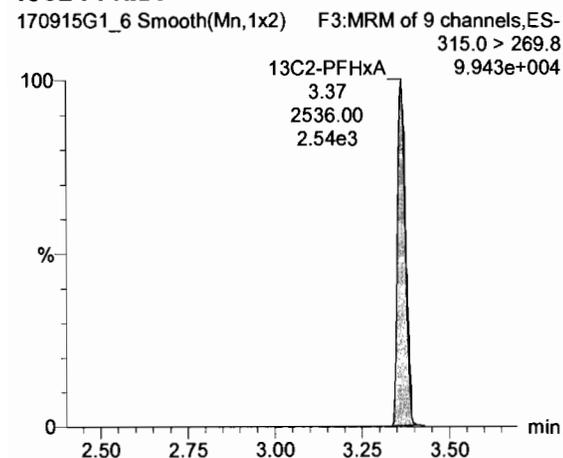
**PFHpA**



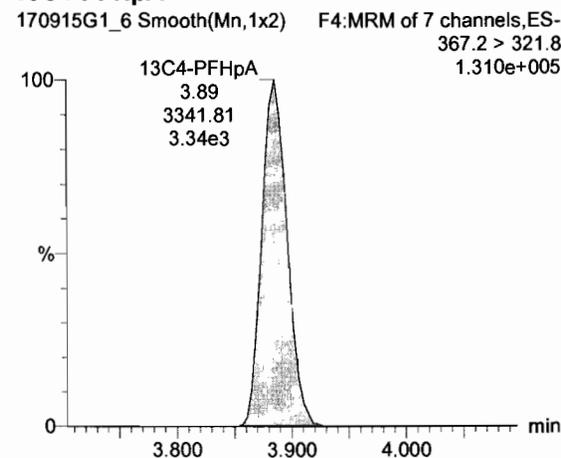
**PFHxS**



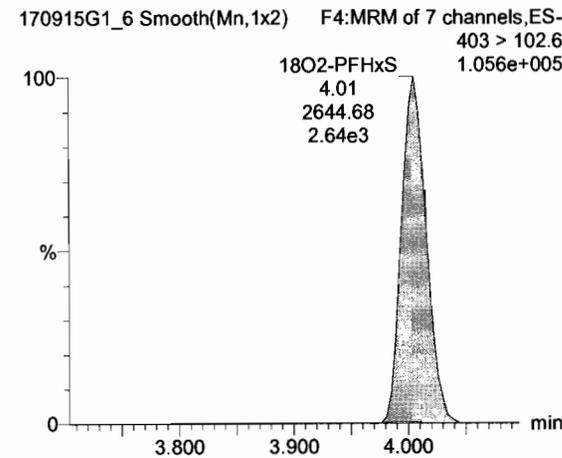
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



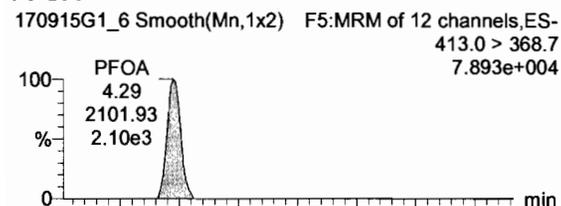


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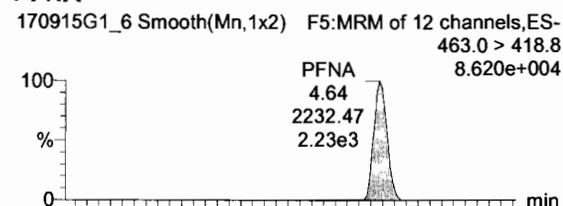
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_6, Date: 15-Sep-2017, Time: 12:50:09, ID: ST170915G1-5 PFC CS2 17I1509, Description: PFC CS2 17I1509

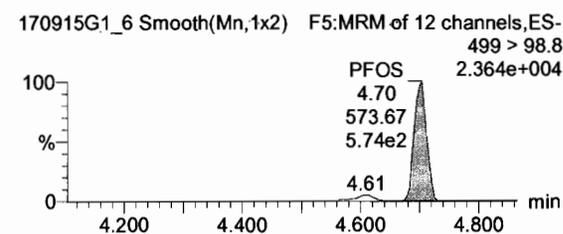
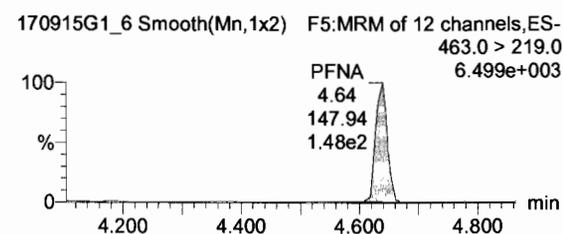
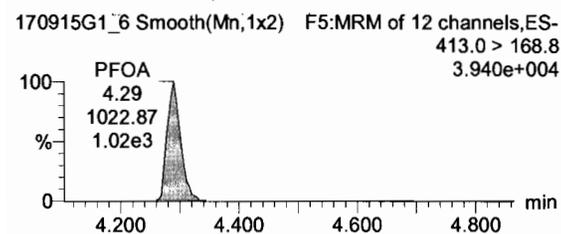
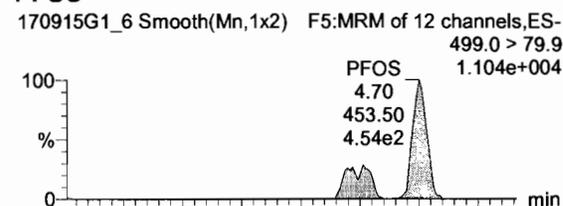
**PFOA**



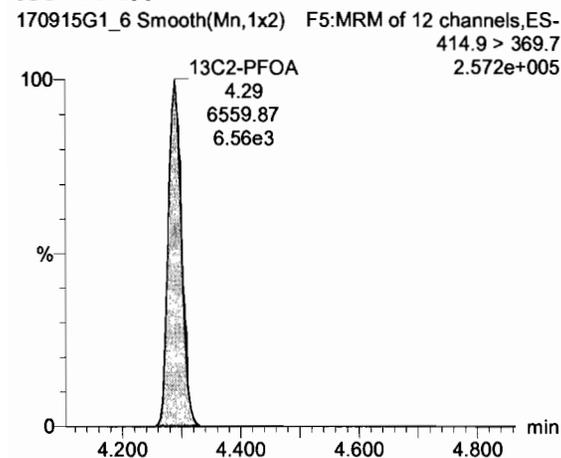
**PFNA**



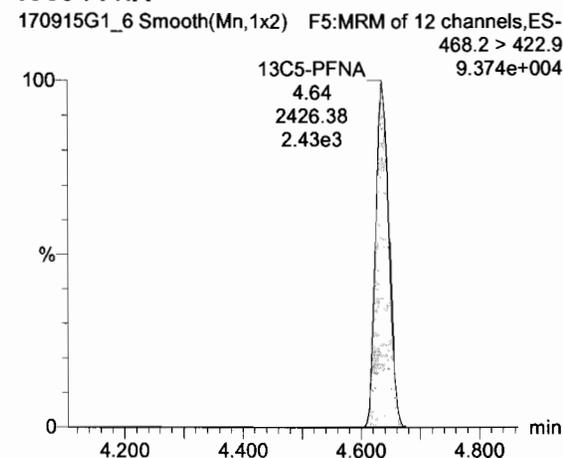
**PFOS**



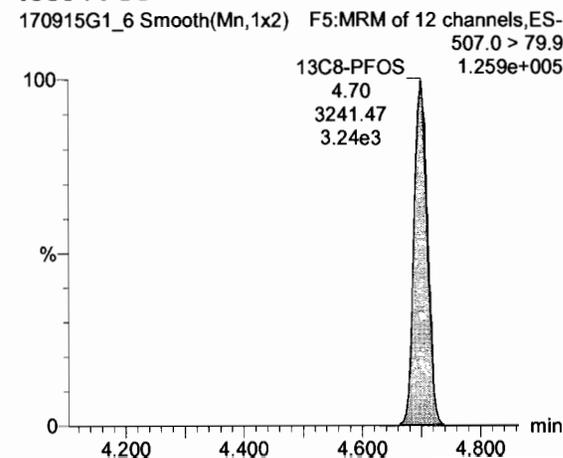
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

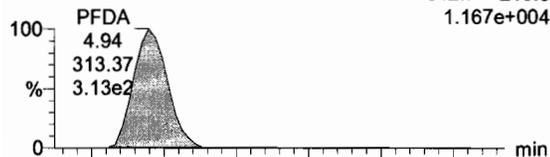
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

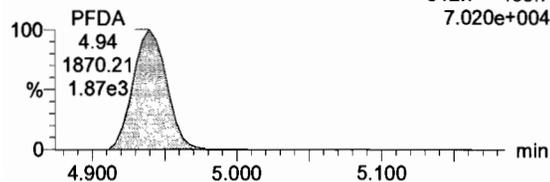
Name: 170915G1\_6, Date: 15-Sep-2017, Time: 12:50:09, ID: ST170915G1-5 PFC CS2 1711509, Description: PFC CS2 1711509

**PFDA**

170915G1\_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
1.167e+004

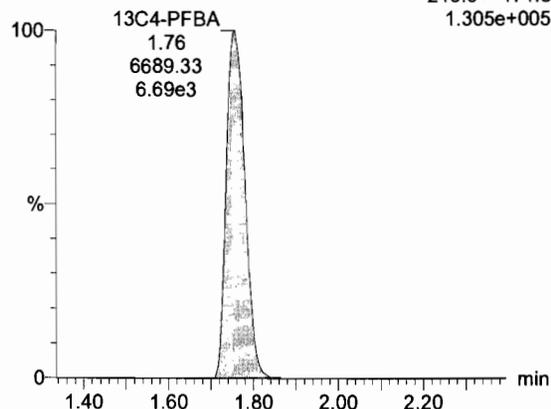


170915G1\_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
7.020e+004



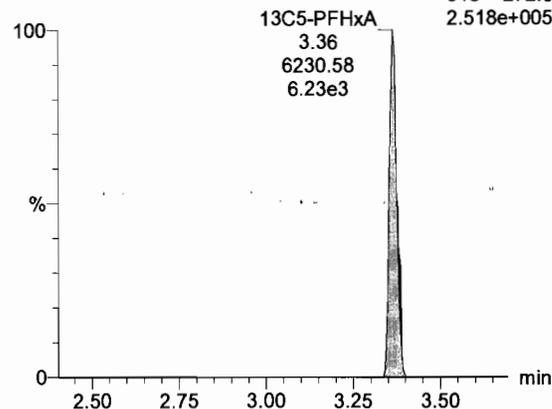
**13C4-PFBA**

170915G1\_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
1.305e+005



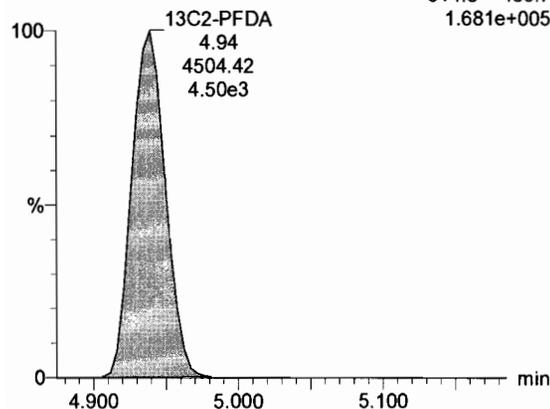
**13C5-PFHxA**

170915G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
2.518e+005



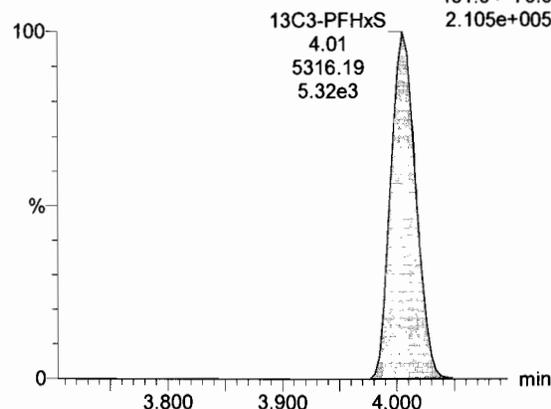
**13C2-PFDA**

170915G1\_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
1.681e+005



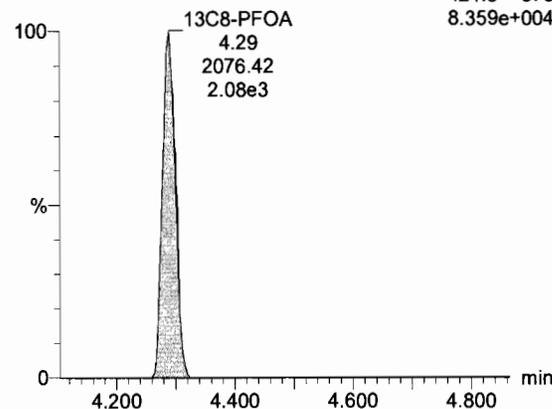
**13C3-PFHxS**

170915G1\_6 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
401.9 > 79.9  
2.105e+005



**13C8-PFOA**

170915G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
421.3 > 376  
8.359e+004



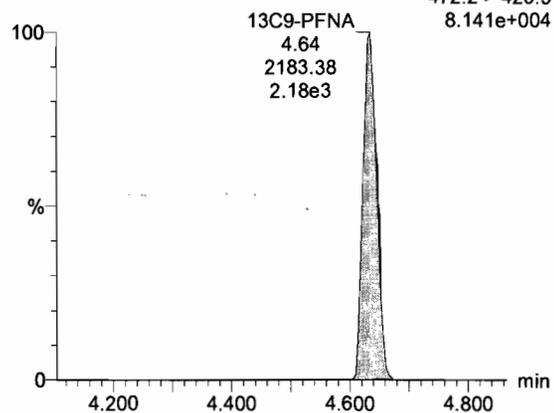
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_6, Date: 15-Sep-2017, Time: 12:50:09, ID: ST170915G1-5 PFC CS2 1711509, Description: PFC CS2 1711509

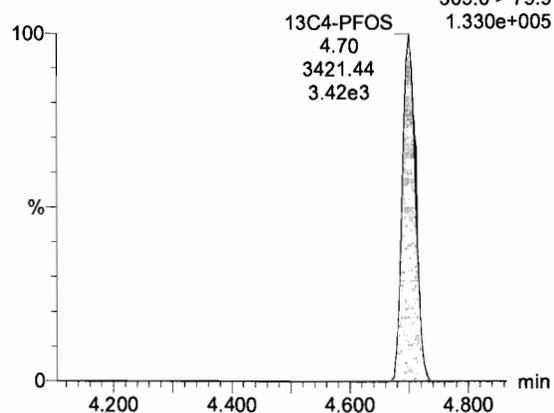
**13C9-PFNA**

170915G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
8.141e+004



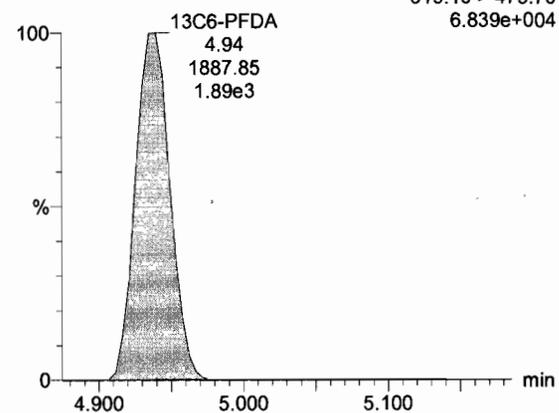
**13C4-PFOS**

170915G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.330e+005



**13C6-PFDA**

170915G1\_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
6.839e+004



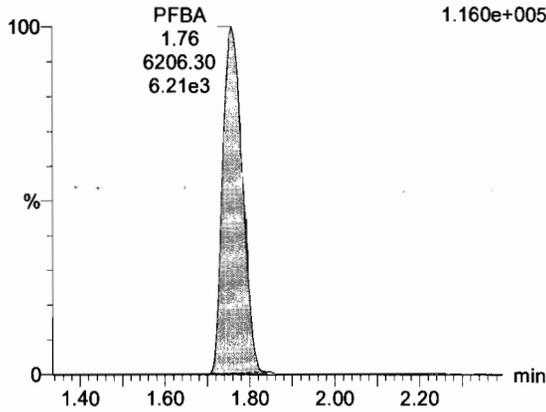
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_7, Date: 15-Sep-2017, Time: 13:02:42, ID: ST170915G1-6 PFC CS3 1711510, Description: PFC CS3 1711510

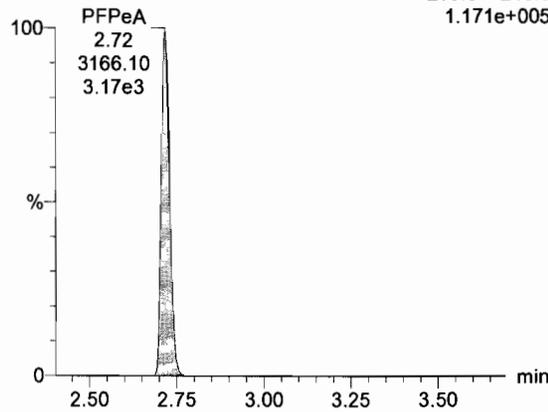
**PFBA**

170915G1\_7 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
1.160e+005



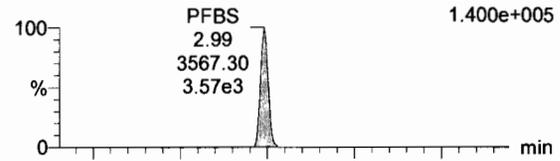
**PFPeA**

170915G1\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
1.171e+005

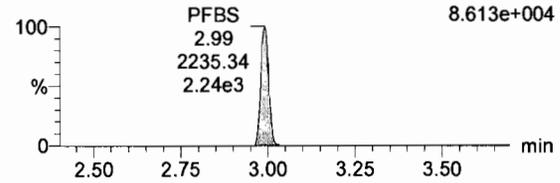


**PFBS**

170915G1\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.400e+005

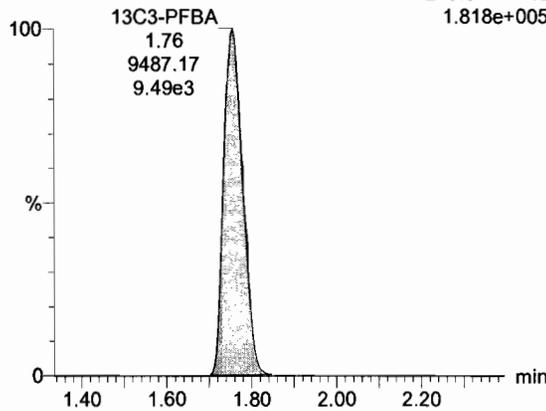


170915G1\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
8.613e+004



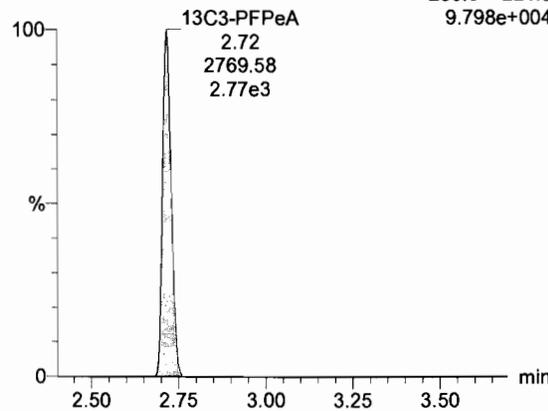
**13C3-PFBA**

170915G1\_7 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
1.818e+005



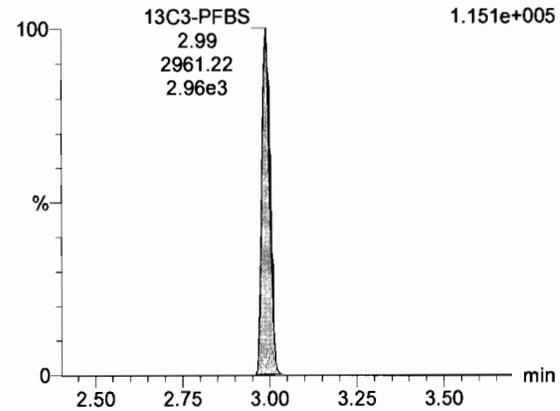
**13C3-PFPeA**

170915G1\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
9.798e+004



**13C3-PFBS**

170915G1\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
1.151e+005

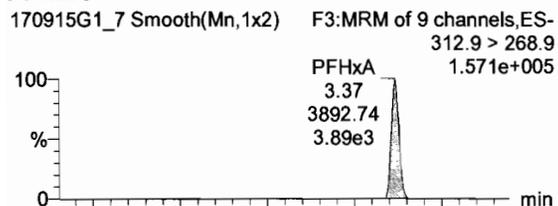


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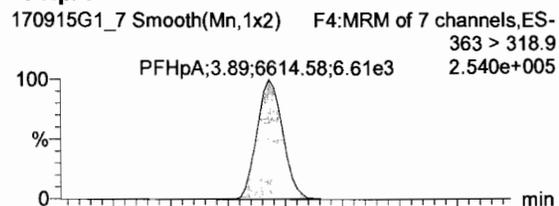
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Name: 170915G1\_7, Date: 15-Sep-2017, Time: 13:02:42, ID: ST170915G1-6 PFC CS3 1711510, Description: PFC CS3 1711510

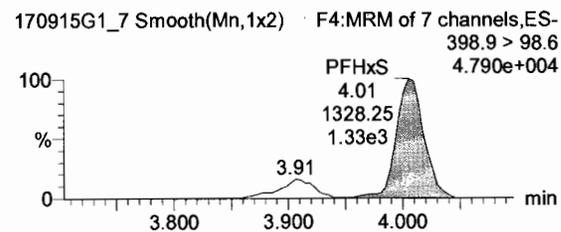
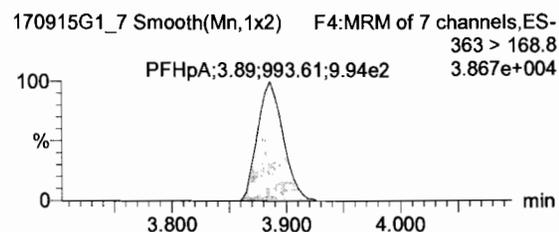
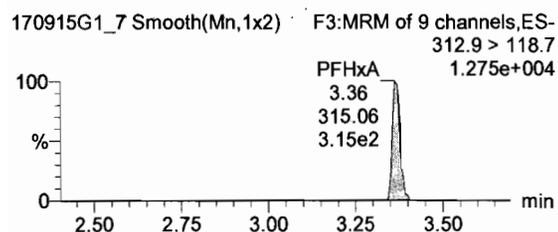
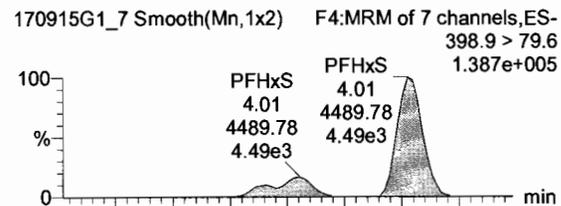
**PFHxA**



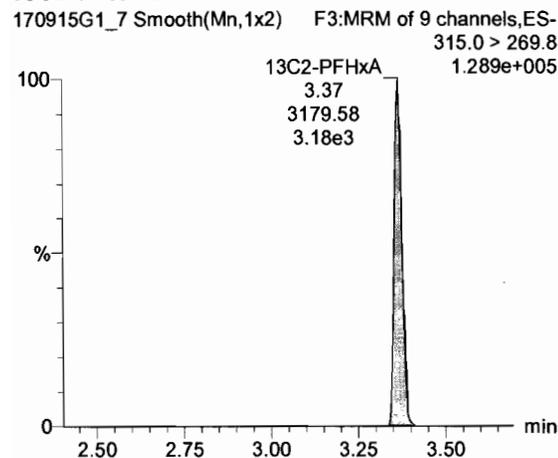
**PFHpA**



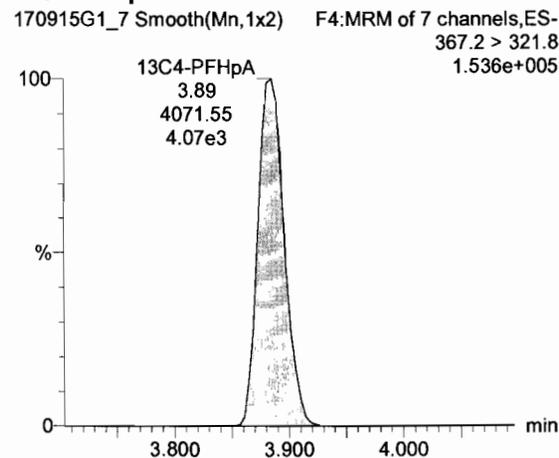
**PFHxS**



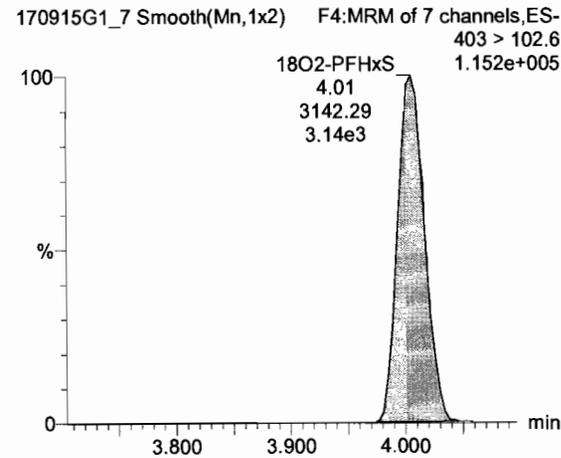
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



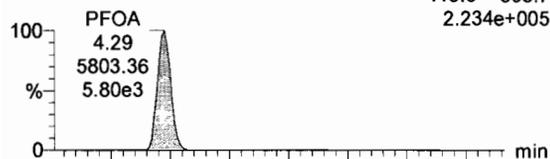
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_7, Date: 15-Sep-2017, Time: 13:02:42, ID: ST170915G1-6 PFC CS3 1711510, Description: PFC CS3 1711510

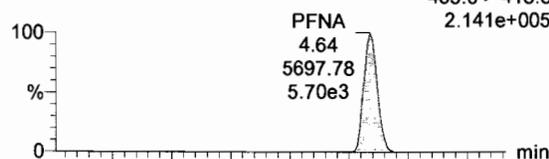
**PFOA**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
2.234e+005



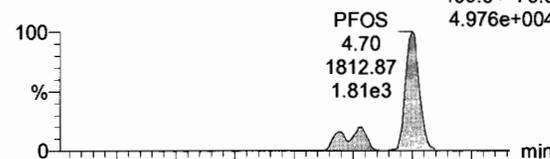
**PFNA**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
2.141e+005

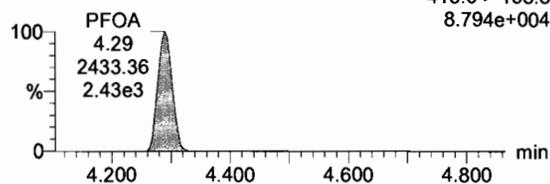


**PFOS**

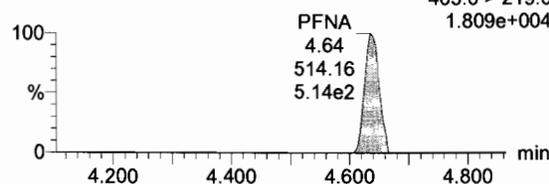
170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
4.976e+004



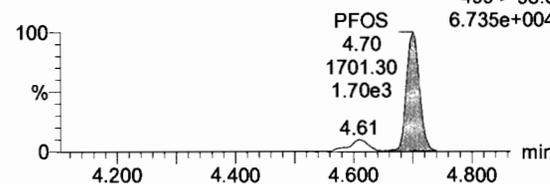
170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
8.794e+004



170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
1.809e+004

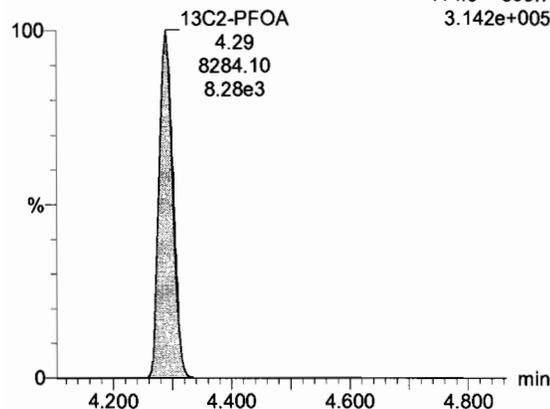


170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
6.735e+004



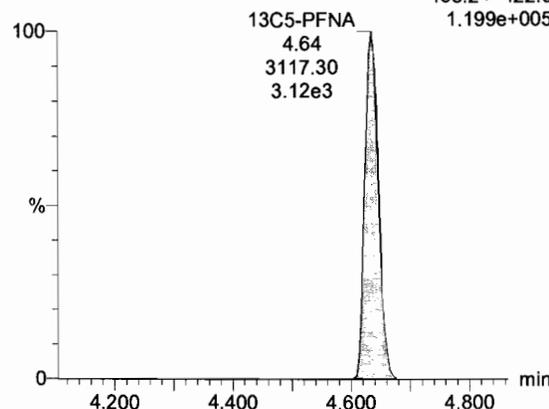
**13C2-PFOA**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
3.142e+005



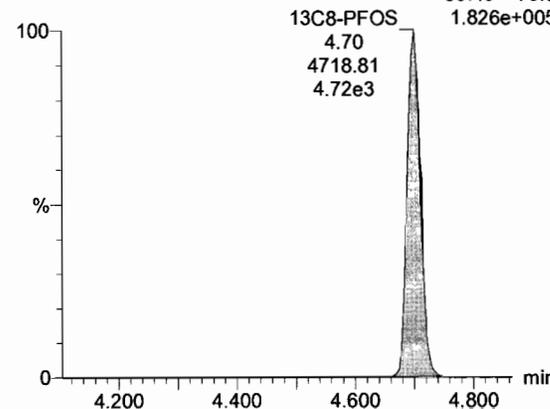
**13C5-PFNA**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
1.199e+005



**13C8-PFOS**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
1.826e+005



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

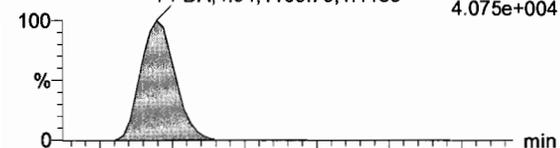
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

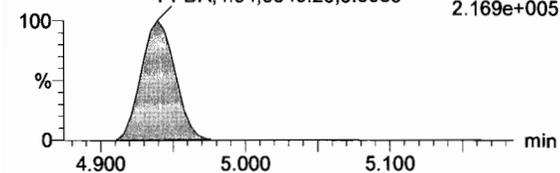
Name: 170915G1\_7, Date: 15-Sep-2017, Time: 13:02:42, ID: ST170915G1-6 PFC CS3 1711510, Description: PFC CS3 1711510

**PFDA**

170915G1\_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
PFDA;4.94;1109.79;1.11e3 512.7 > 219.0  
4.075e+004

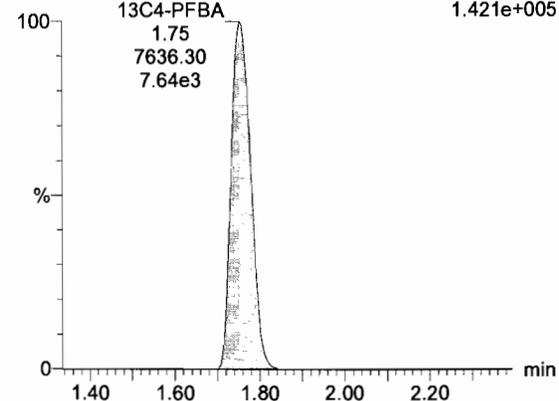


170915G1\_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
PFDA;4.94;5849.20;5.85e3 512.7 > 468.7  
2.169e+005



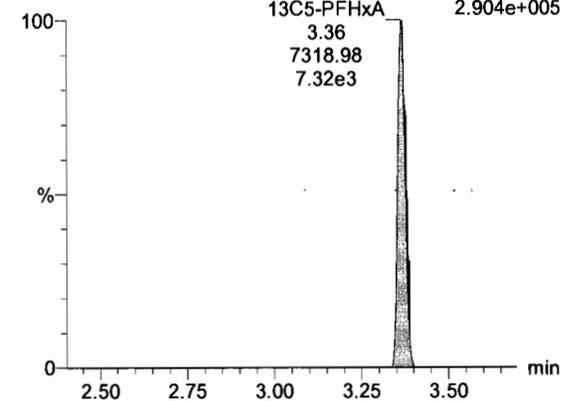
**13C4-PFBA**

170915G1\_7 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
13C4-PFBA 1.75 216.9 > 171.8  
7636.30 1.421e+005  
7.64e3



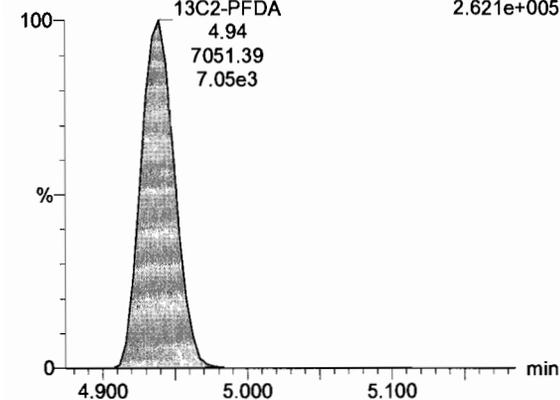
**13C5-PFHxA**

170915G1\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
13C5-PFHxA 3.36 318 > 272.9  
7318.98 2.904e+005  
7.32e3



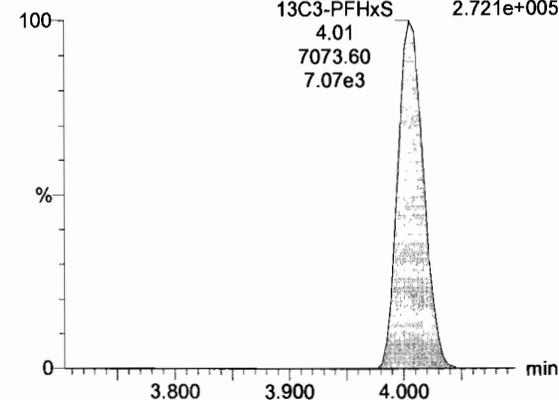
**13C2-PFDA**

170915G1\_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
13C2-PFDA 4.94 514.8 > 469.7  
7051.39 2.621e+005  
7.05e3



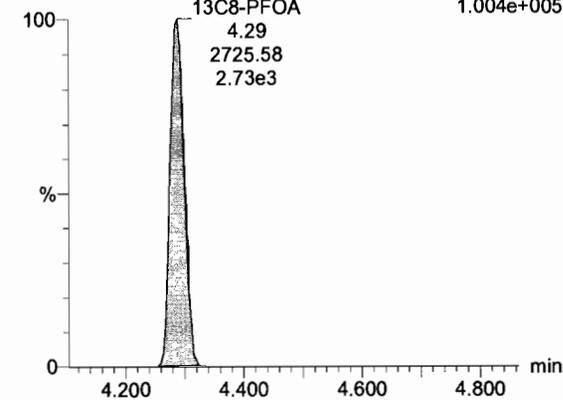
**13C3-PFHxS**

170915G1\_7 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
13C3-PFHxS 4.01 401.9 > 79.9  
7073.60 2.721e+005  
7.07e3



**13C8-PFOA**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
13C8-PFOA 4.29 421.3 > 376  
2725.58 1.004e+005  
2.73e3



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

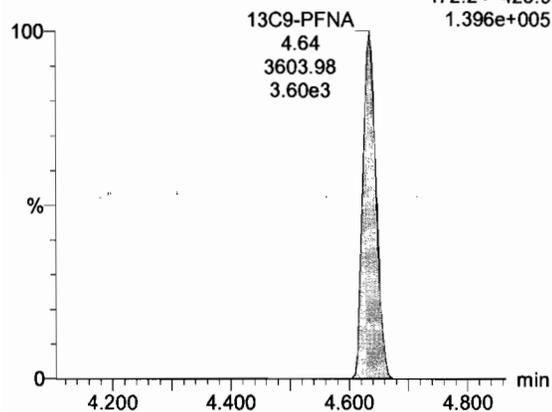
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_7, Date: 15-Sep-2017, Time: 13:02:42, ID: ST170915G1-6 PFC CS3 1711510, Description: PFC CS3 1711510

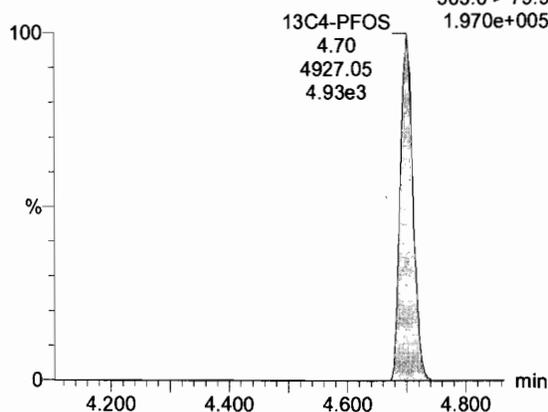
**13C9-PFNA**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
1.396e+005



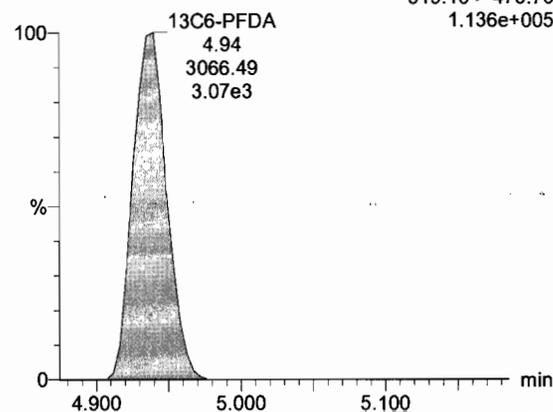
**13C4-PFOS**

170915G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.970e+005



**13C6-PFDA**

170915G1\_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
1.136e+005





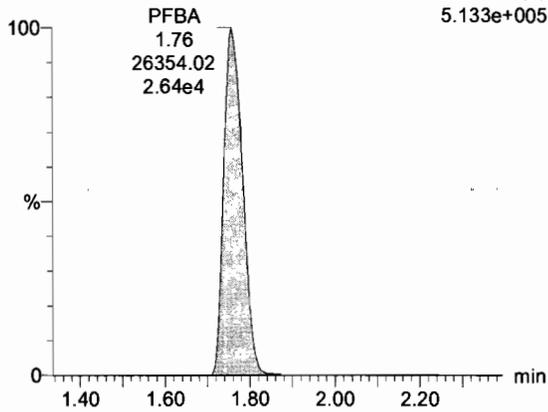
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Name: 170915G1\_8, Date: 15-Sep-2017, Time: 13:15:15, ID: ST170915G1-7 PFC CS4 1711511, Description: PFC CS4 1711511

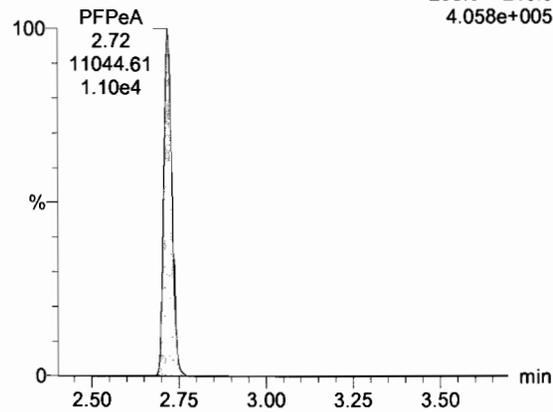
**PFBA**

170915G1\_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
5.133e+005



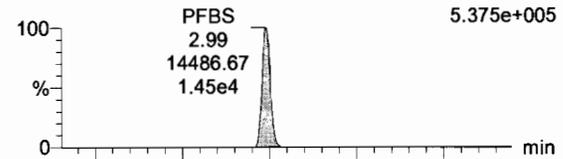
**PFPeA**

170915G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
4.058e+005

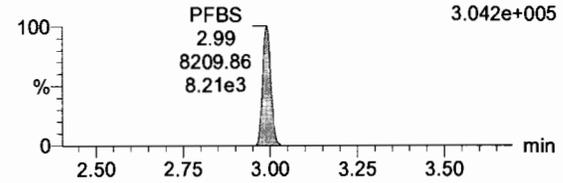


**PFBS**

170915G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
5.375e+005

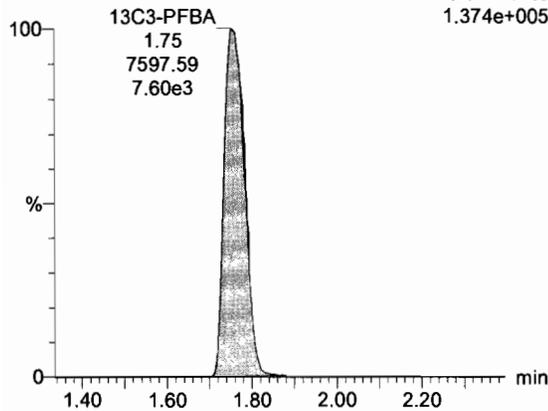


170915G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
3.042e+005



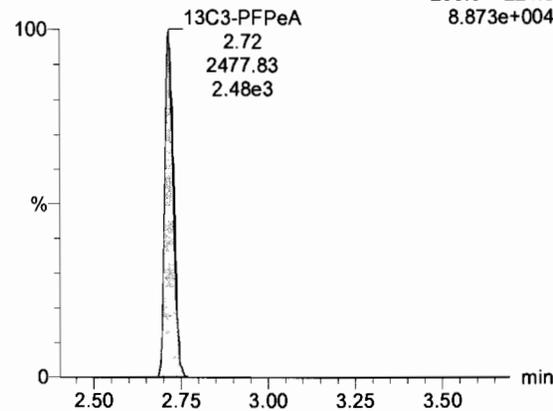
**13C3-PFBA**

170915G1\_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
1.374e+005



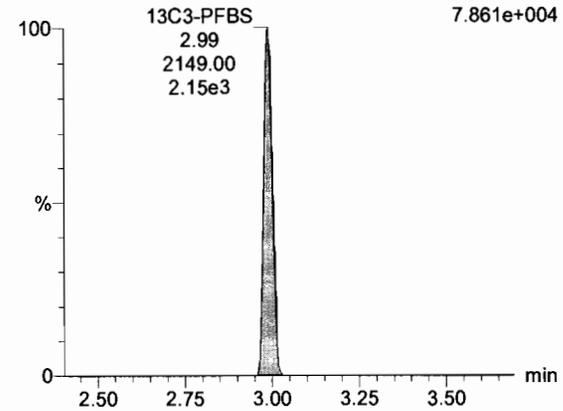
**13C3-PFPeA**

170915G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
8.873e+004



**13C3-PFBS**

170915G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
7.861e+004

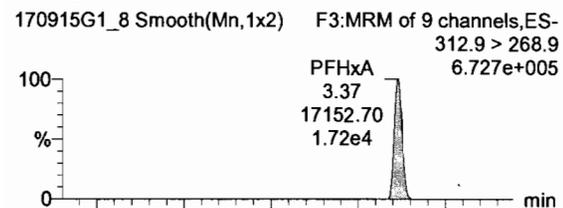


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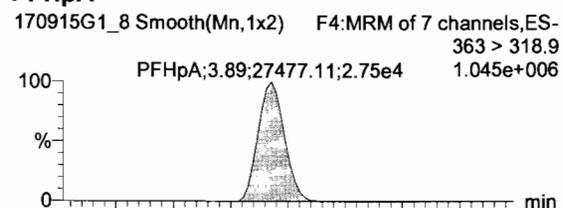
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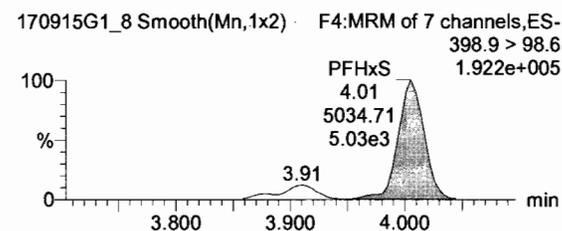
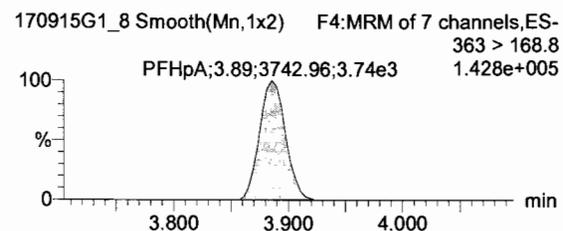
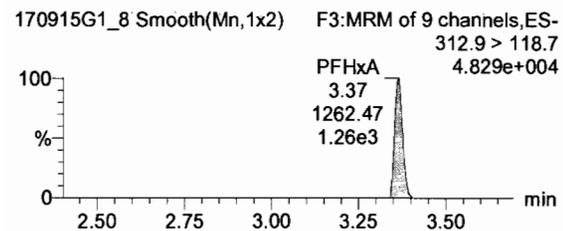
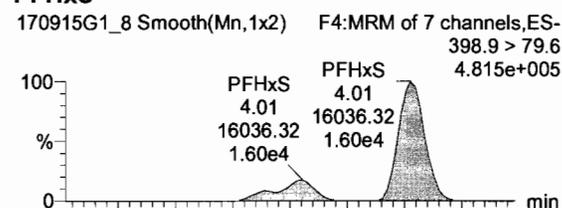
**PFHxA**



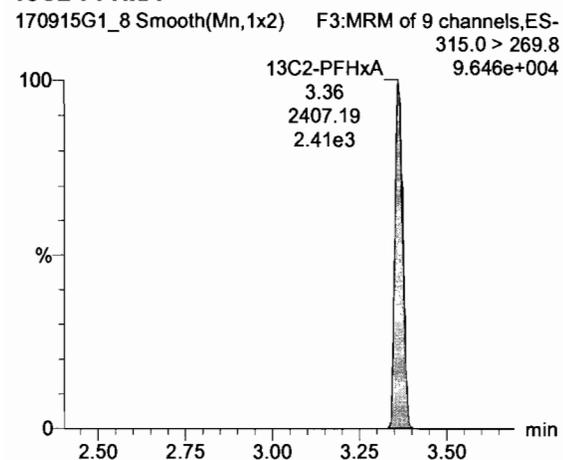
**PFHpA**



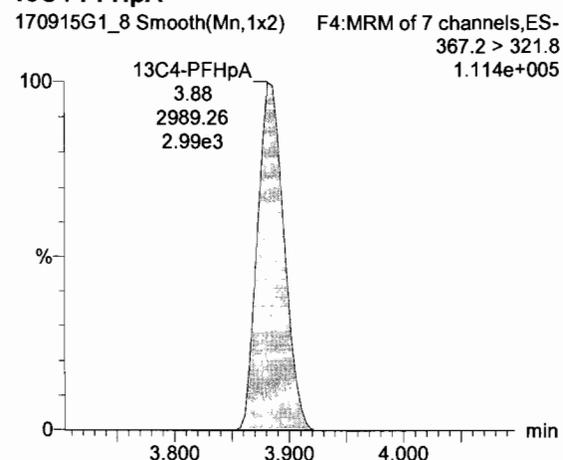
**PFHxS**



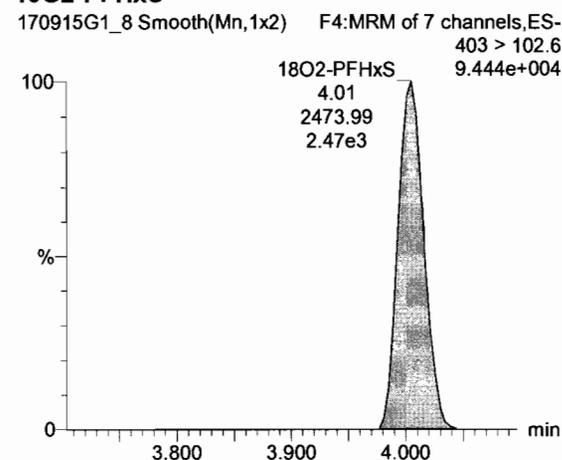
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

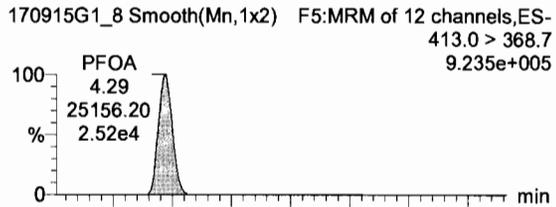


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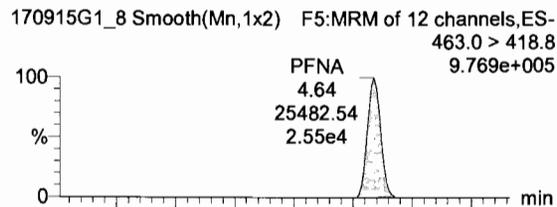
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Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_8, Date: 15-Sep-2017, Time: 13:15:15, ID: ST170915G1-7 PFC CS4 1711511, Description: PFC CS4 1711511

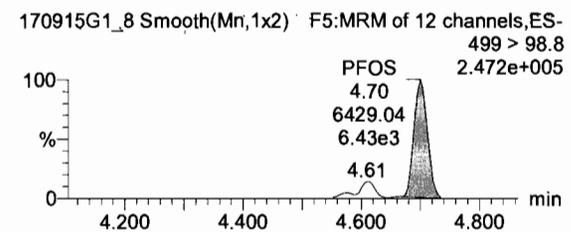
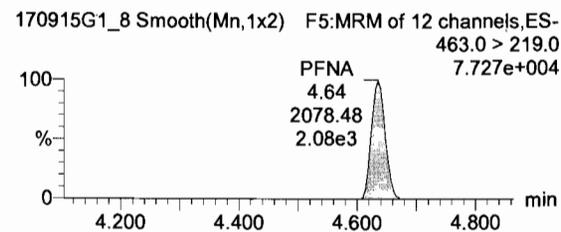
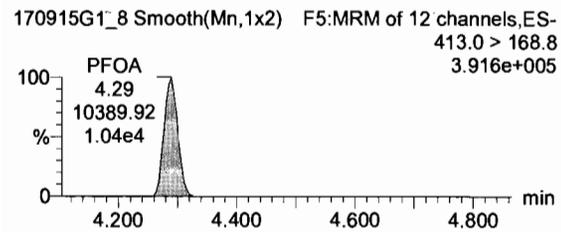
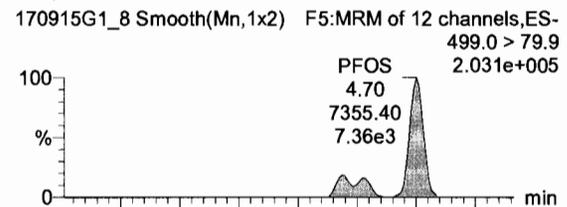
**PFOA**



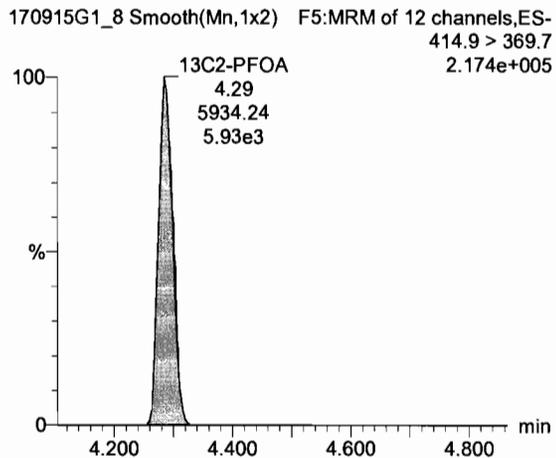
**PFNA**



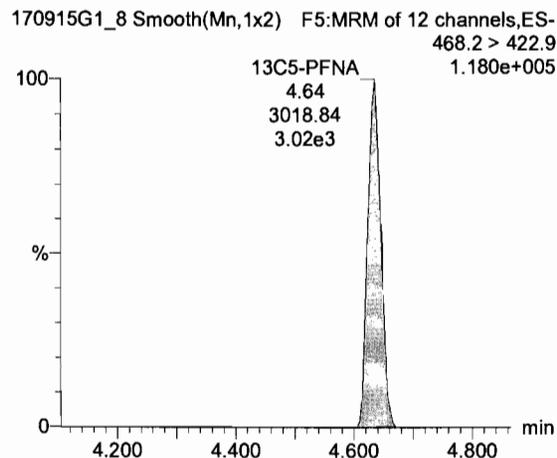
**PFOS**



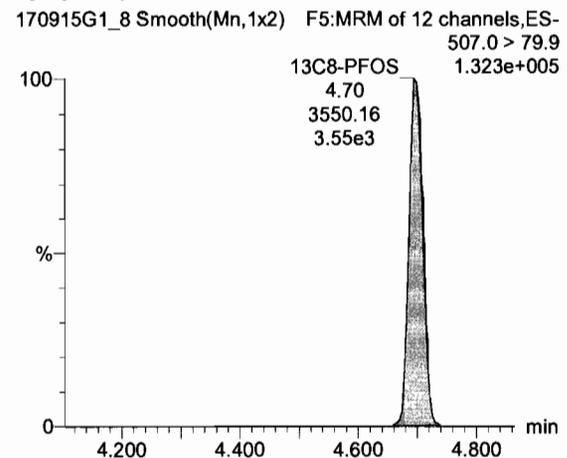
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**

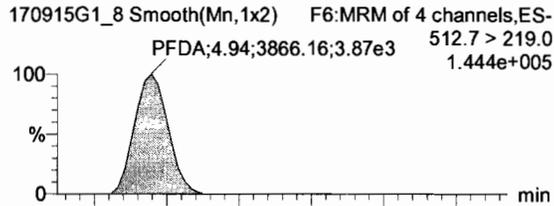


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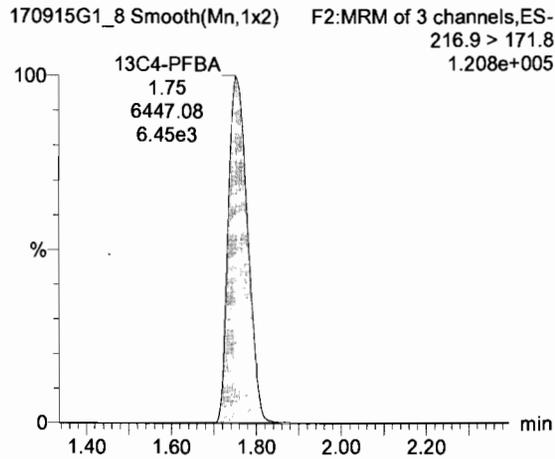
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_8, Date: 15-Sep-2017, Time: 13:15:15, ID: ST170915G1-7 PFC CS4 1711511, Description: PFC CS4 1711511

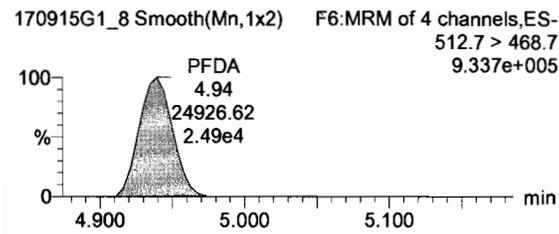
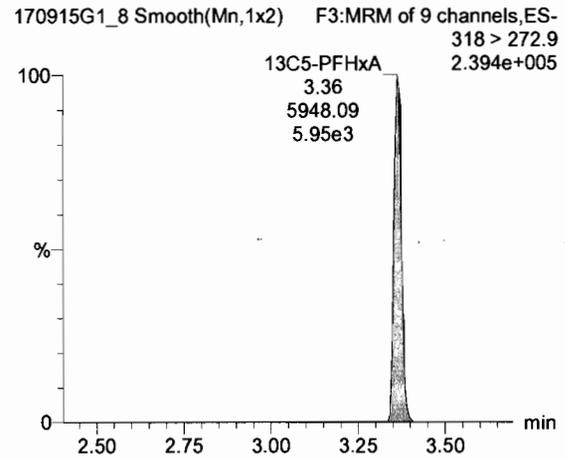
**PFDA**



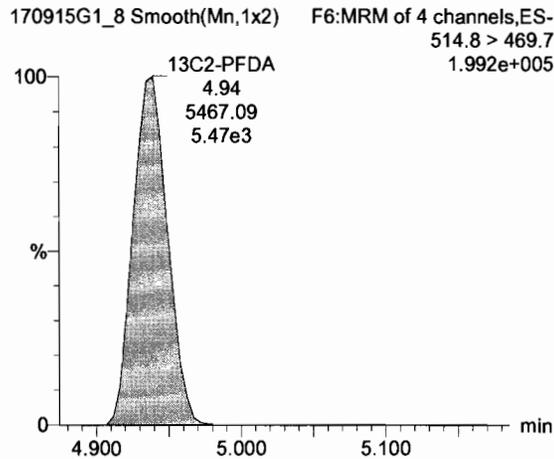
**13C4-PFBA**



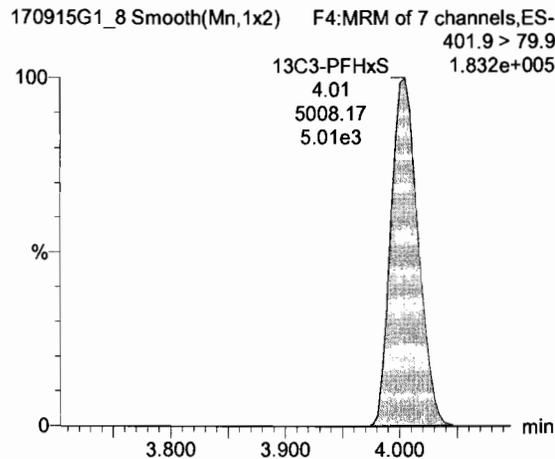
**13C5-PFHxA**



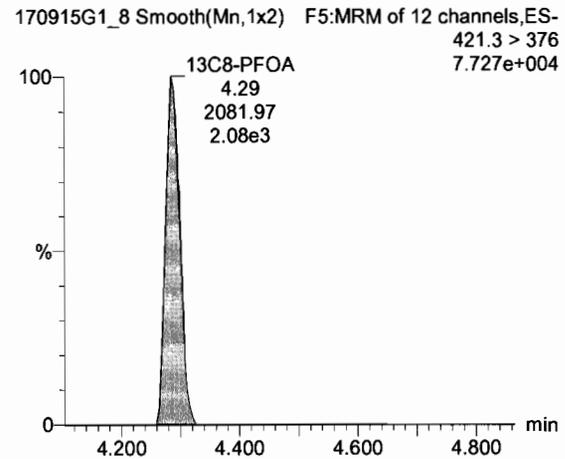
**13C2-PFDA**



**13C3-PFHxS**



**13C8-PFOA**



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

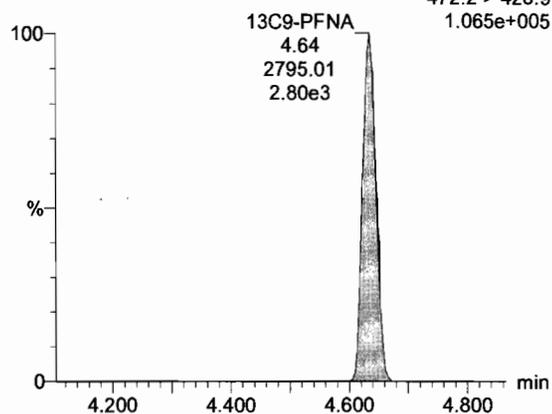
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_8, Date: 15-Sep-2017, Time: 13:15:15, ID: ST170915G1-7 PFC CS4 1711511, Description: PFC CS4 1711511

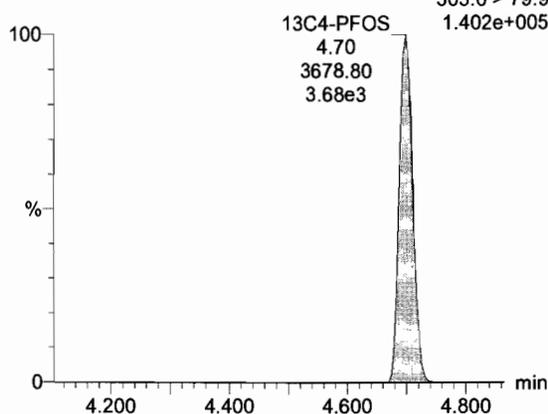
**13C9-PFNA**

170915G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
1.065e+005



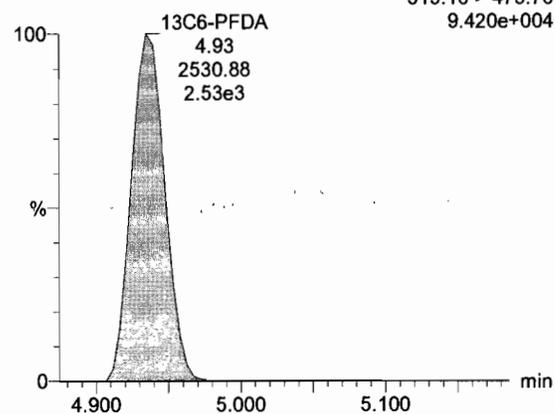
**13C4-PFOS**

170915G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.402e+005



**13C6-PFDA**

170915G1\_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
9.420e+004



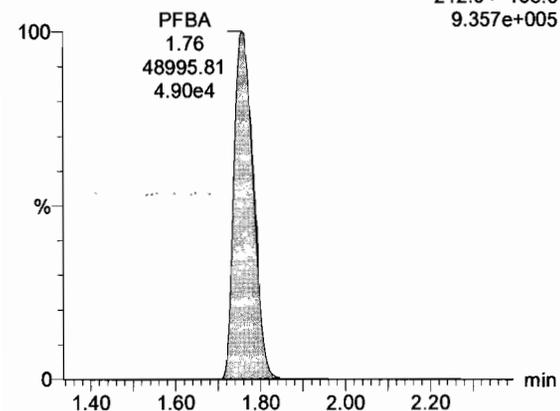
Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_9, Date: 15-Sep-2017, Time: 13:27:49, ID: ST170915G1-8 PFC CS5 1711512, Description: PFC CS5 1711512

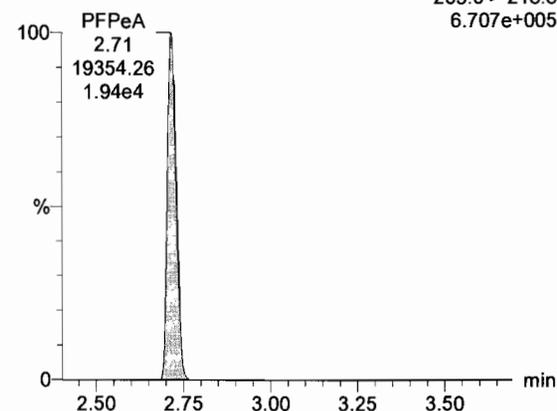
**PFBA**

170915G1\_9 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
9.357e+005



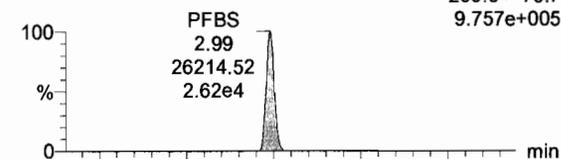
**PFPeA**

170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
6.707e+005

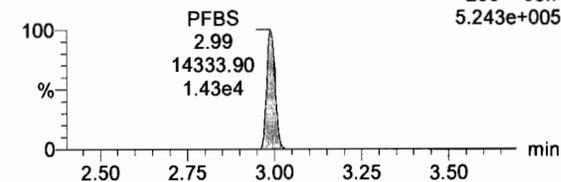


**PFBS**

170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
9.757e+005

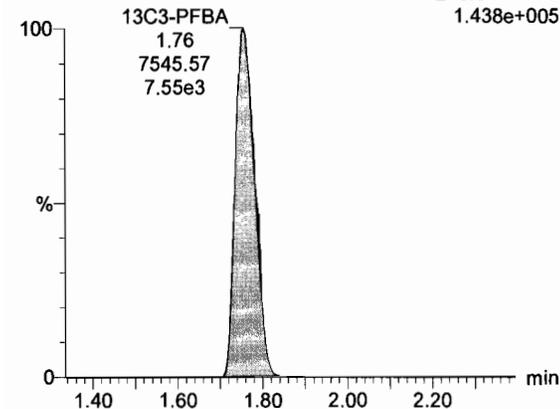


170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
5.243e+005



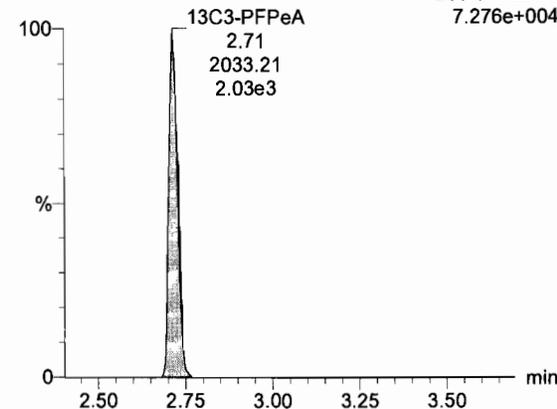
**13C3-PFBA**

170915G1\_9 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
1.438e+005



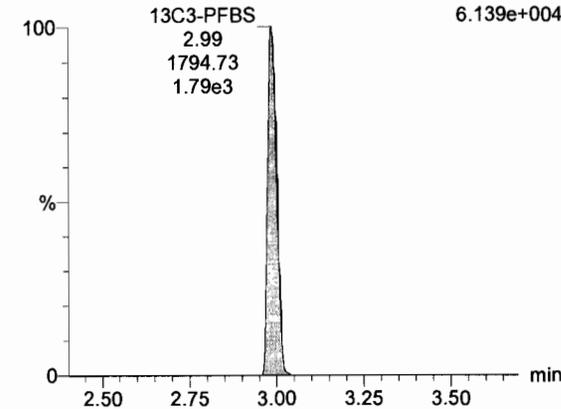
**13C3-PFPeA**

170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
266.0 > 221.8  
7.276e+004



**13C3-PFBS**

170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
302.0 > 98.8  
6.139e+004



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-CRV.qld

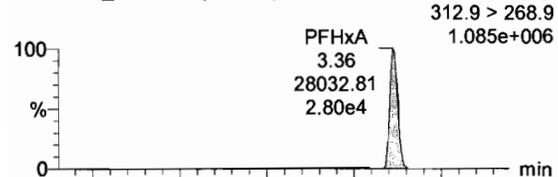
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_9, Date: 15-Sep-2017, Time: 13:27:49, ID: ST170915G1-8 PFC CS5 1711512, Description: PFC CS5 1711512

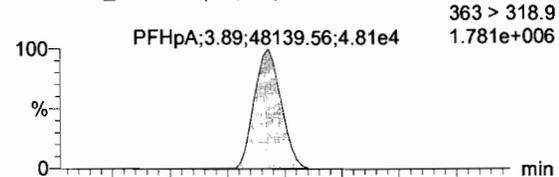
**PFHxA**

170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-312.9 > 268.9



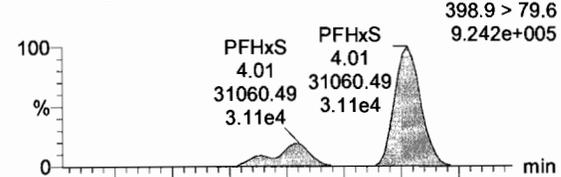
**PFHpA**

170915G1\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-363 > 318.9

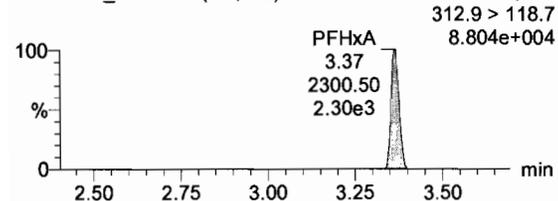


**PFHxS**

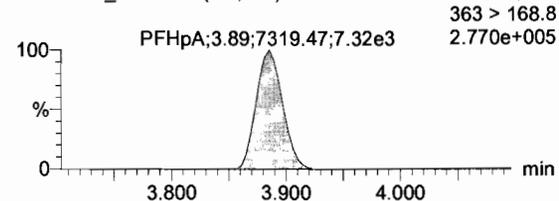
170915G1\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-398.9 > 79.6



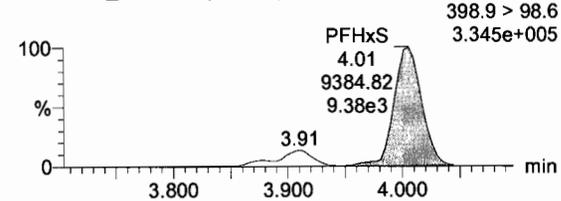
170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-312.9 > 118.7



170915G1\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-363 > 168.8

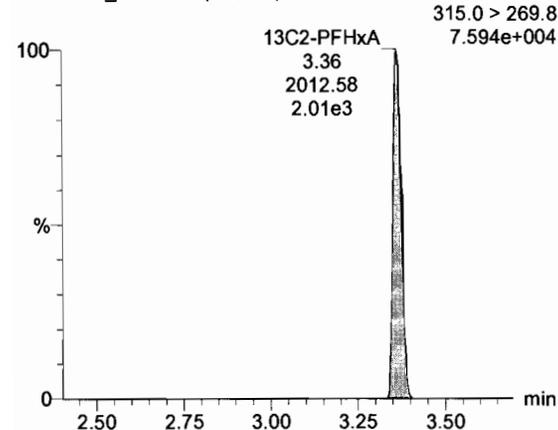


170915G1\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-398.9 > 98.6



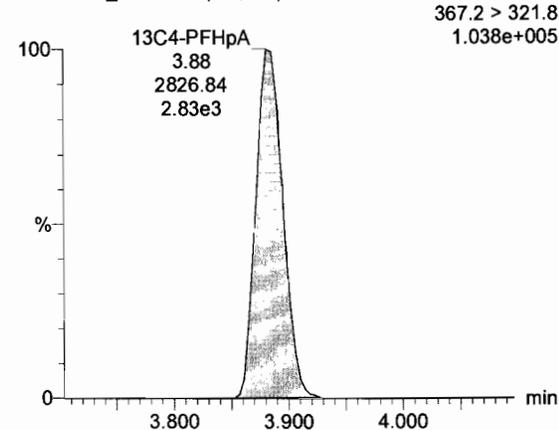
**13C2-PFHxA**

170915G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-315.0 > 269.8



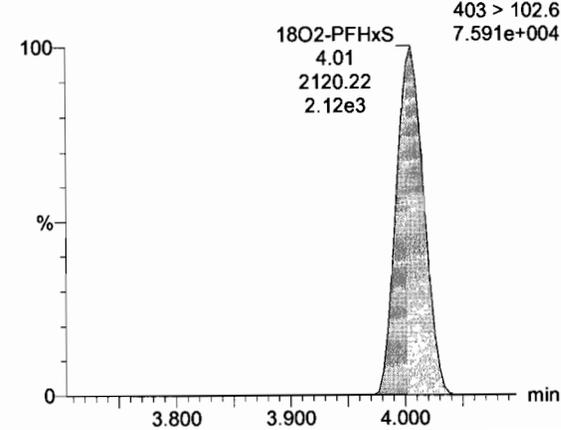
**13C4-PFHpA**

170915G1\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-367.2 > 321.8



**18O2-PFHxS**

170915G1\_9 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-403 > 102.6

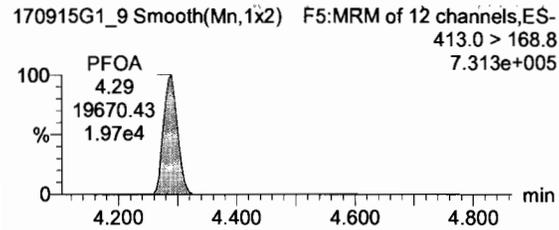
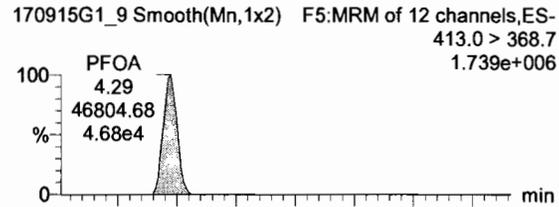


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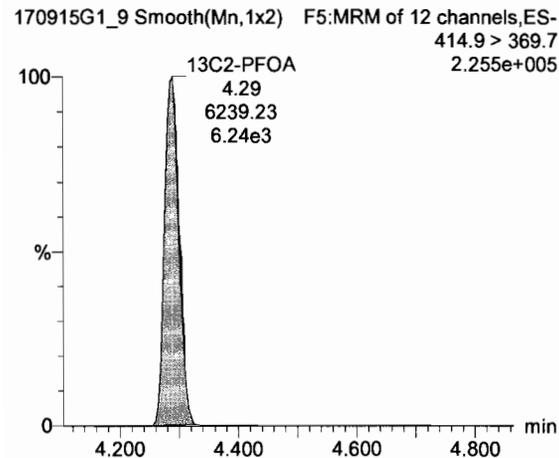
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_9, Date: 15-Sep-2017, Time: 13:27:49, ID: ST170915G1-8 PFC CS5 1711512, Description: PFC CS5 1711512

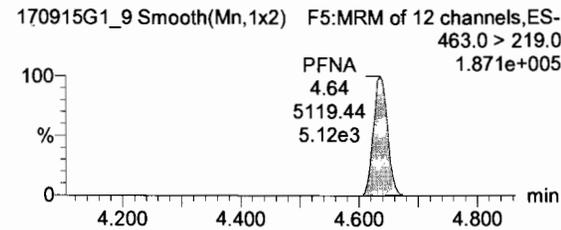
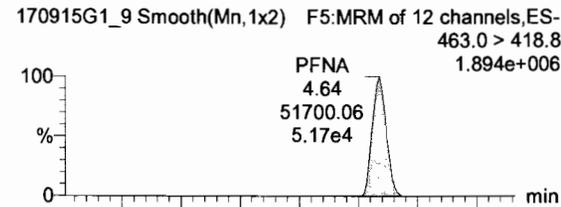
**PFOA**



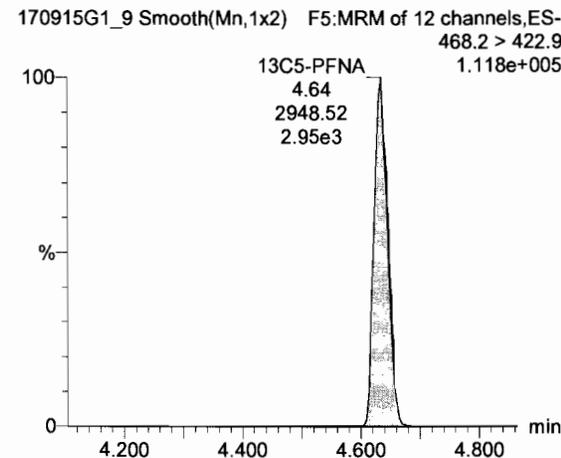
**13C2-PFOA**



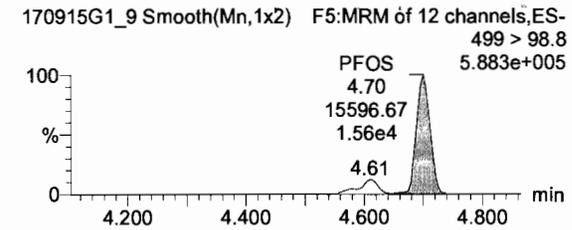
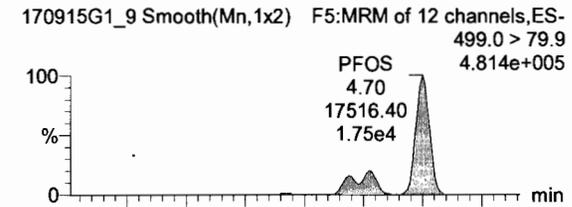
**PFNA**



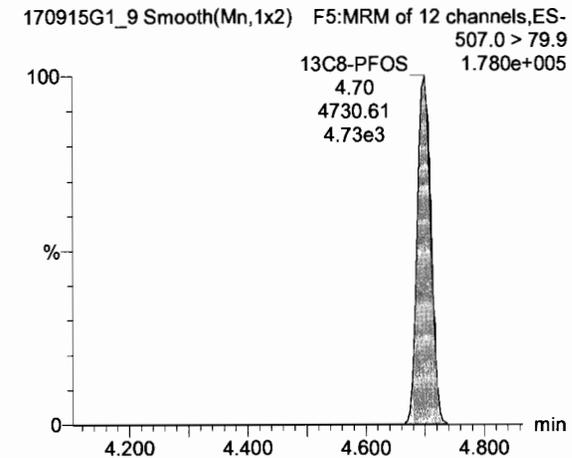
**13C5-PFNA**



**PFOS**



**13C8-PFOS**



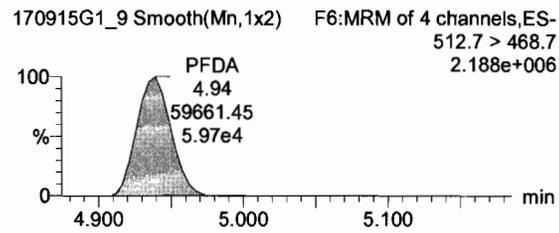
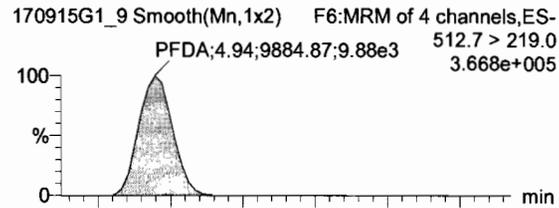


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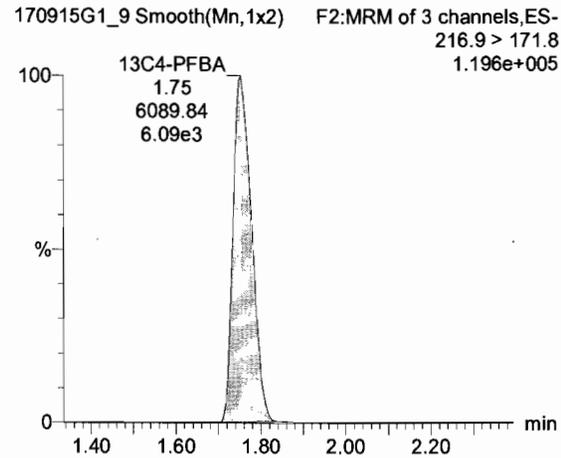
Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_9, Date: 15-Sep-2017, Time: 13:27:49, ID: ST170915G1-8 PFC CS5 1711512, Description: PFC CS5 1711512

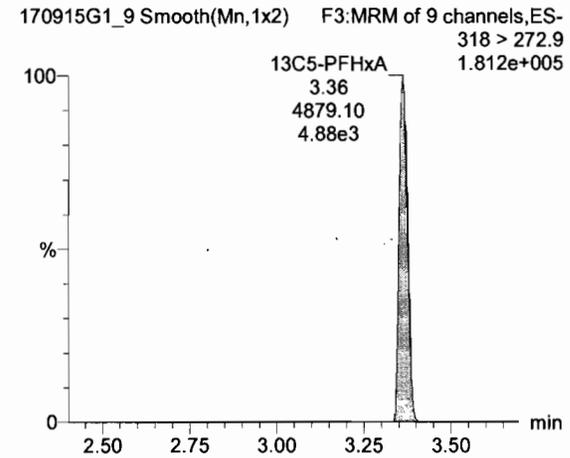
**PFDA**



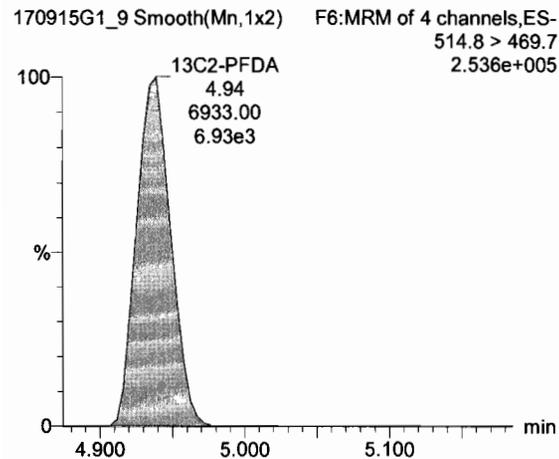
**13C4-PFBA**



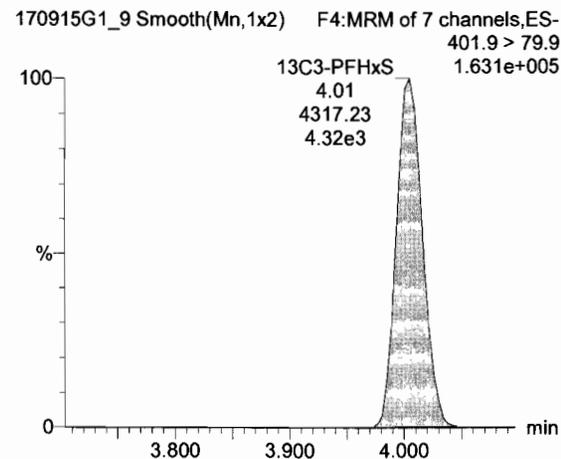
**13C5-PFHxA**



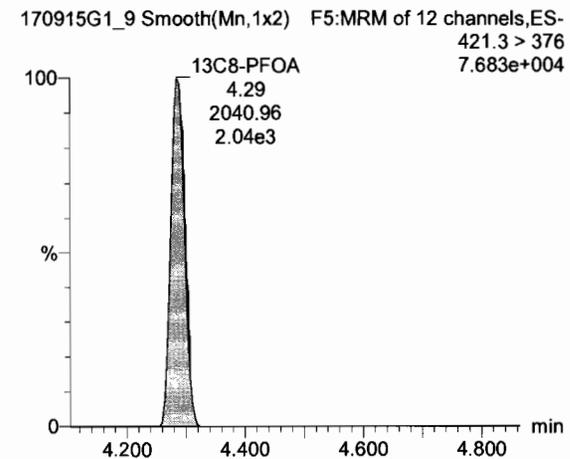
**13C2-PFDA**



**13C3-PFHxS**



**13C8-PFOA**



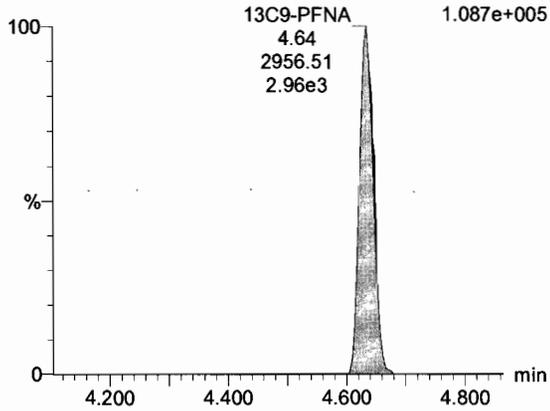
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Last Altered: Friday, September 15, 2017 15:53:33 Pacific Daylight Time  
Printed: Sunday, September 17, 2017 20:02:36 Pacific Daylight Time

Name: 170915G1\_9, Date: 15-Sep-2017, Time: 13:27:49, ID: ST170915G1-8 PFC CS5 1711512, Description: PFC CS5 1711512

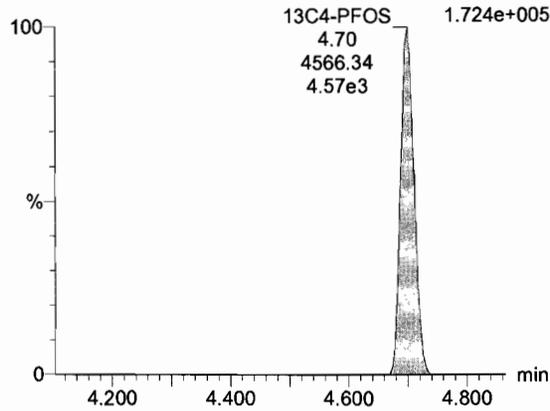
**13C9-PFNA**

170915G1\_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
1.087e+005



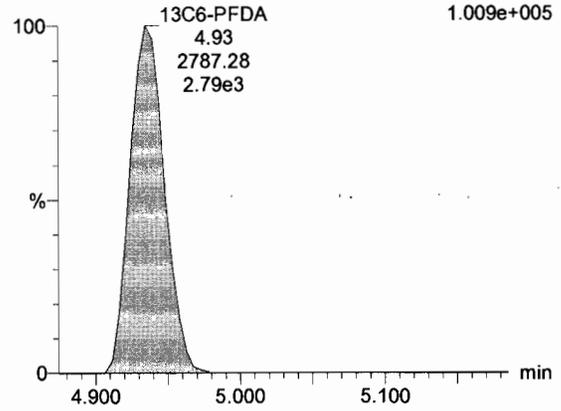
**13C4-PFOS**

170915G1\_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.724e+005



**13C6-PFDA**

170915G1\_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
1.009e+005



Dataset: U:\G1.PRO\Results\2017\170915G1\170915G1-11.qld

Last Altered: Sunday, September 17, 2017 20:21:26 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:21:46 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\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170915G1\_11, Date: 15-Sep-2017, Time: 13:52:53, ID: ICV170915G1-1 PFC ICV 15I1504, Description: PFC ICV 15I1504

	# Name	Trace	wt/vol	RT	Area	IS Area	Response	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.000	1.76	5895.804	8496.087	8.674	10.5	104.6
2	2 PFPeA	263.0 > 218.8	1.000	2.72	2501.299	2900.240	10.781	9.1	91.3
3	3 PFBS	299.0 > 79.7	1.000	2.99	2945.158	2661.462	13.832	7.9	79.2
4	4 PFHxA	312.9 > 268.9	1.000	3.37	3717.696	2433.045	19.100	11.1	111.2
5	5 PFHpA	363 > 318.9	1.000	3.89	6234.549	3660.355	21.291	9.8	97.8
6	6 PFHxS	398.9 > 79.6	1.000	4.01	3251.353	2692.650	15.094	8.6	86.0
7	7 PFOA	413.0 > 368.7	1.000	4.29	5166.061	6788.414	9.513	9.8	98.2
8	8 PFNA	463.0 > 418.8	1.000	4.64	4567.229	3041.355	18.771	8.6	85.8
9	9 PFOS	499.0 > 79.9	1.000	4.70	1225.855	3763.880	4.071	8.7	86.7
10	10 PFDA	512.7 > 219.0	1.000	4.94	747.835	4700.395	1.989	11.2	111.7
11	11 13C3-PFBA	215.9 > 171.8	1.000	1.75	8496.087	7189.708	14.771	12.0	95.9
12	12 13C3-PFBS	302.0 > 98.8	1.000	2.99	2661.462	6503.966	5.115	13.1	104.6
13	13 13C3-PFPeA	266.0 > 221.8	1.000	2.72	2900.240	6503.966	5.574	13.5	107.9
14	14 13C2-PFHxA	315.0 > 269.8	1.000	3.37	2433.045	6503.966	4.676	11.4	91.5
15	15 13C4-PFHxA	367.2 > 321.8	1.000	3.89	3660.355	6503.966	7.035	12.9	102.9
16	16 18O2-PFHxS	403 > 102.6	1.000	4.01	2692.650	5586.691	6.025	12.2	97.3
17	17 13C2-PFOA	414.9 > 369.7	1.000	4.29	6788.414	2149.651	39.474	11.9	95.1
18	18 13C5-PFNA	468.2 > 422.9	1.000	4.64	3041.355	3123.227	12.172	11.6	92.6
19	19 13C2-PFDA	514.8 > 469.7	1.000	4.94	4700.395	2233.913	26.301	11.5	92.2
20	20 13C8-PFOS	507.0 > 79.9	1.000	4.70	3763.880	3595.566	13.085	13.4	106.9
21	21 13C4-PFBA	216.9 > 171.8	1.000	1.75	7189.708	7189.708	12.500	12.5	100.0
22	22 13C5-PFHxA	318 > 272.9	1.000	3.37	6503.966	6503.966	12.500	12.5	100.0
23	23 13C3-PFHxS	401.9 > 79.9	1.000	4.01	5586.691	5586.691	12.500	12.5	100.0
24	24 13C8-PFOA	421.3 > 376	1.000	4.29	2149.651	2149.651	12.500	12.5	100.0
25	25 13C9-PFNA	472.2 > 426.9	1.000	4.64	3123.227	3123.227	12.500	12.5	100.0
26	26 13C4-PFOS	503.0 > 79.9	1.000	4.70	3595.566	3595.566	12.500	12.5	100.0
27	27 13C6-PFDA	519.10 > 473.70	1.000	4.93	2233.913	2233.913	12.500	12.5	100.0
28	28 Total PFHxS	398.9 > 79.6	1.000		3251.353	2692.650	15.094	8.6	

70-130

70-150

om  
9/15/17  
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9/17/17

om  
9/17/17

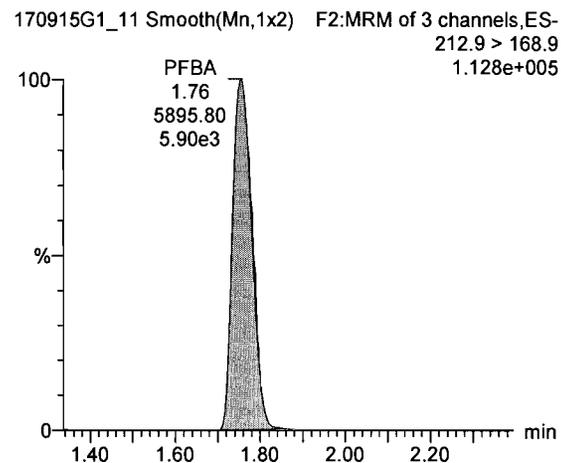
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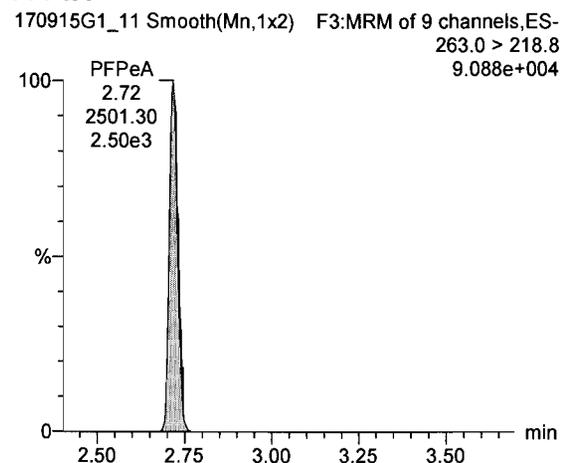
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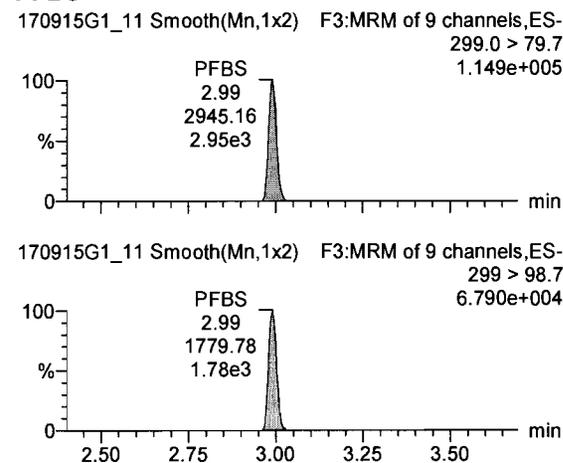
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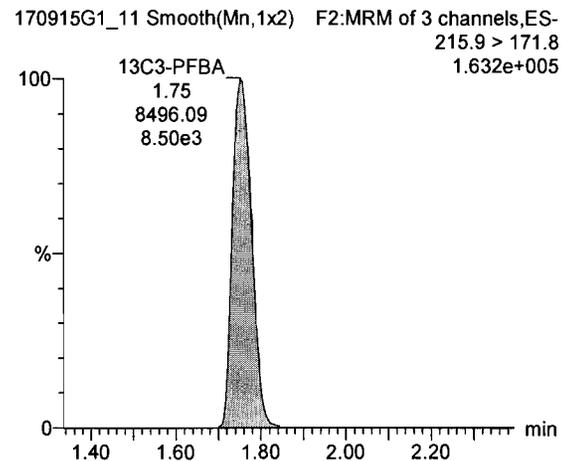
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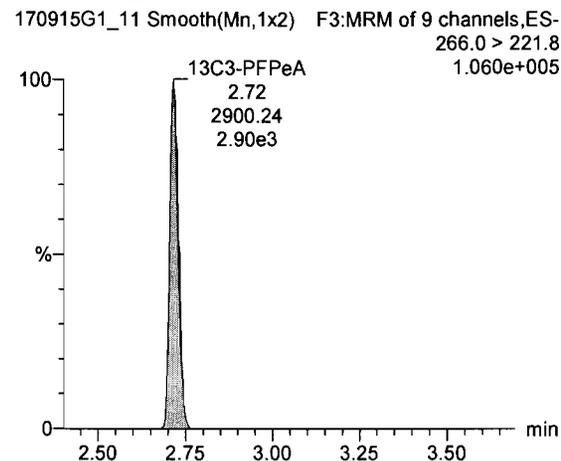
**PFBS**



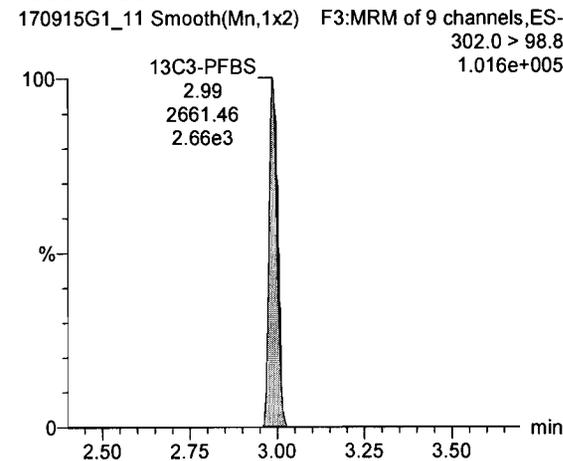
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

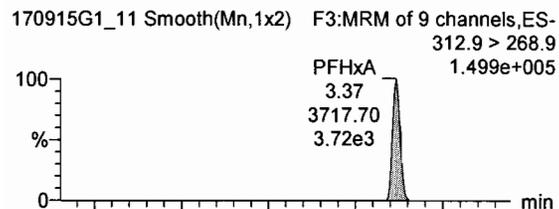


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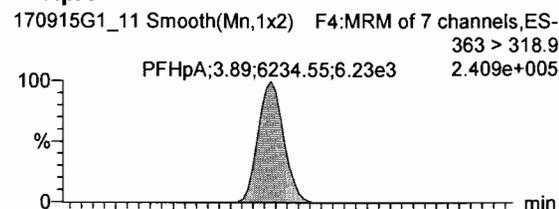
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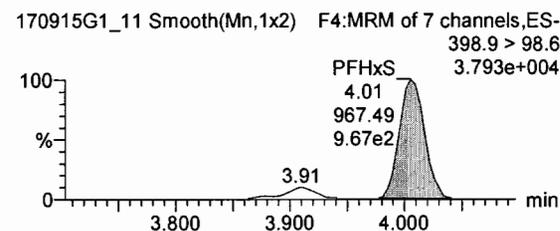
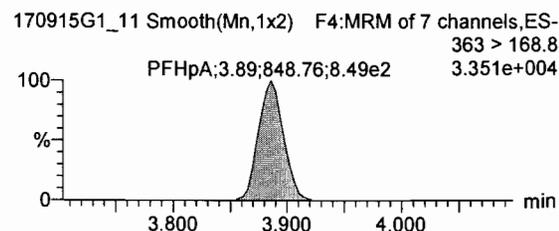
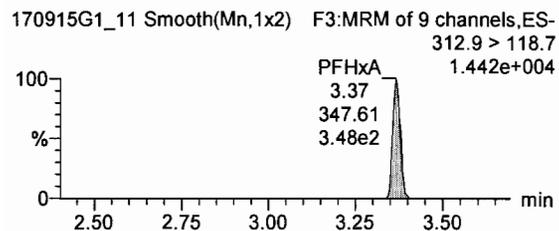
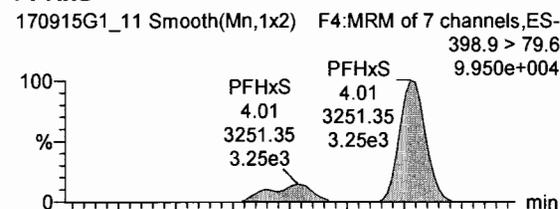
**PFHxA**



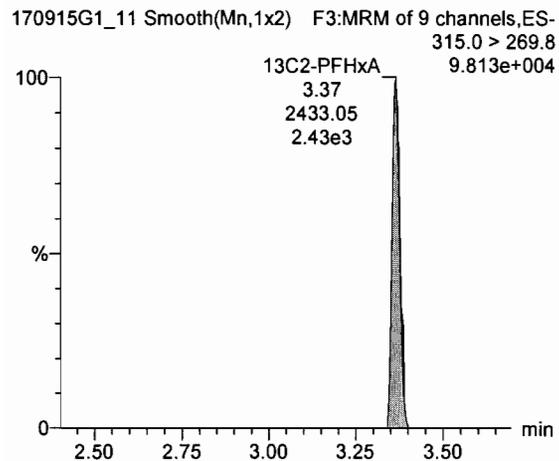
**PFHpA**



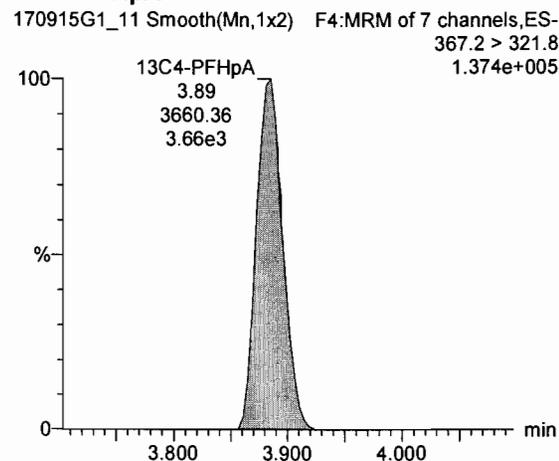
**PFHxS**



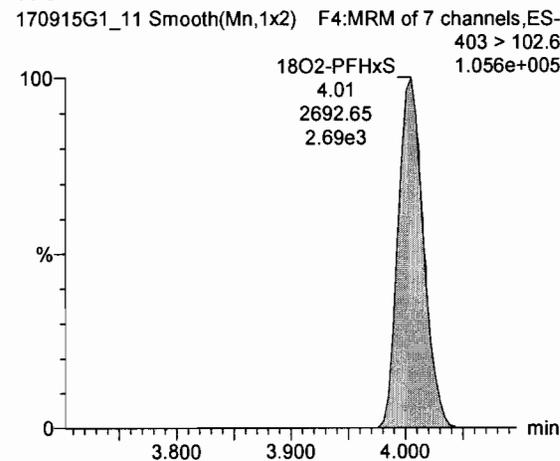
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



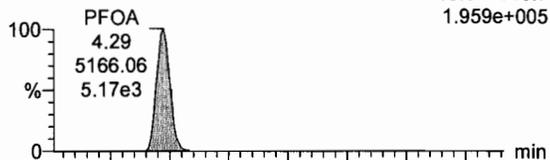
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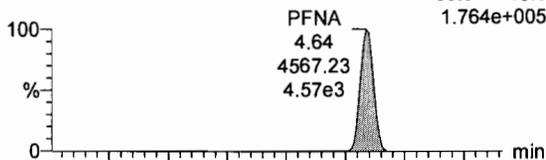
**PFOA**

170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
1.959e+005



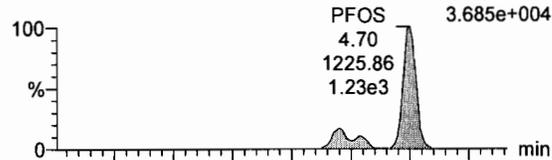
**PFNA**

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463.0 > 418.8  
1.764e+005

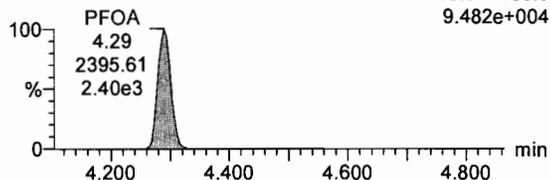


**PFOS**

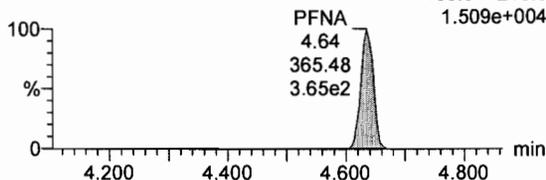
170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
3.685e+004



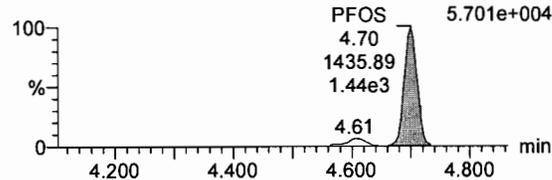
170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
9.482e+004



170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
1.509e+004

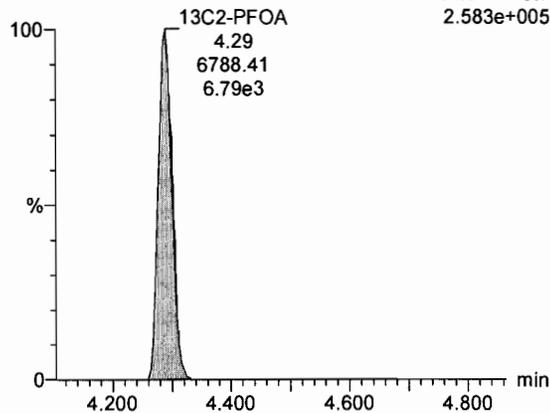


170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
5.701e+004



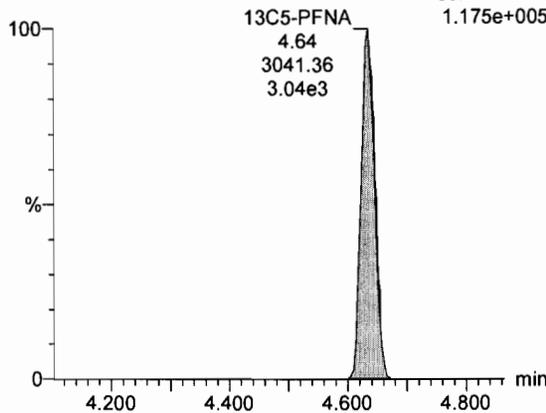
**13C2-PFOA**

170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
2.583e+005



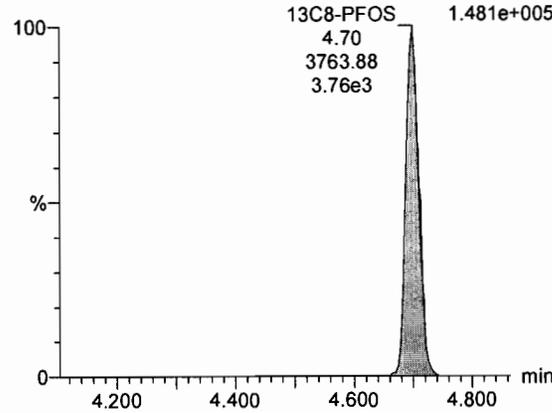
**13C5-PFNA**

170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
1.175e+005



**13C8-PFOS**

170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
1.481e+005



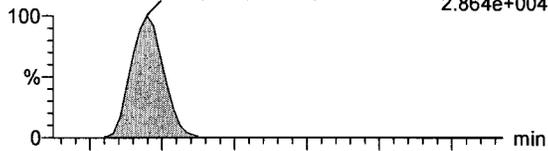
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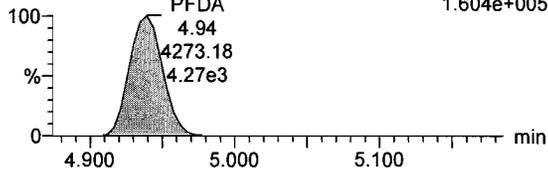
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**PFDA**

170915G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
PFDA;4.94;747.84;7.48e2 512.7 > 219.0  
2.864e+004

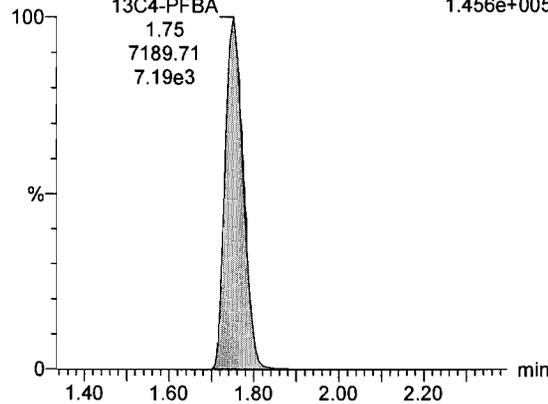


170915G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
PFDA 4.94 512.7 > 468.7  
1.604e+005



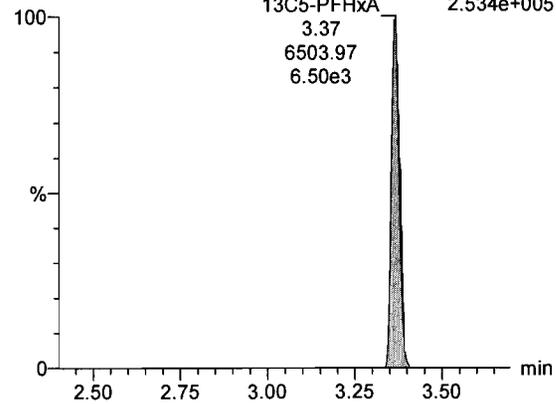
**13C4-PFBA**

170915G1\_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
13C4-PFBA 1.75 216.9 > 171.8  
7.19e3 1.456e+005



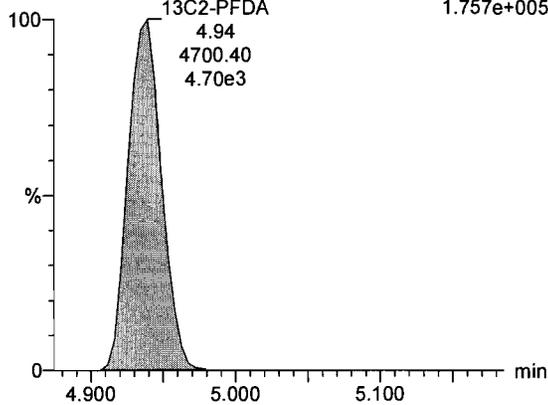
**13C5-PFHxA**

170915G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
13C5-PFHxA 3.37 318 > 272.9  
6503.97 2.534e+005  
6.50e3



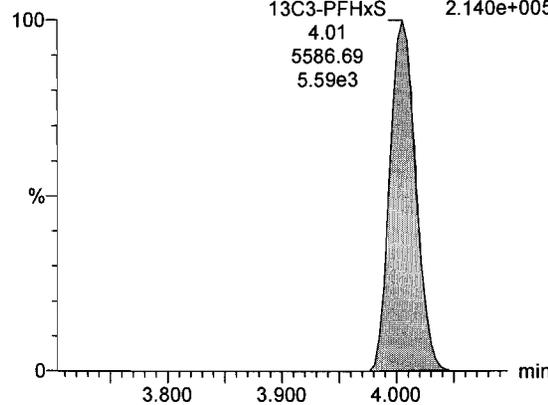
**13C2-PFDA**

170915G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
13C2-PFDA 4.94 514.8 > 469.7  
4700.40 1.757e+005  
4.70e3



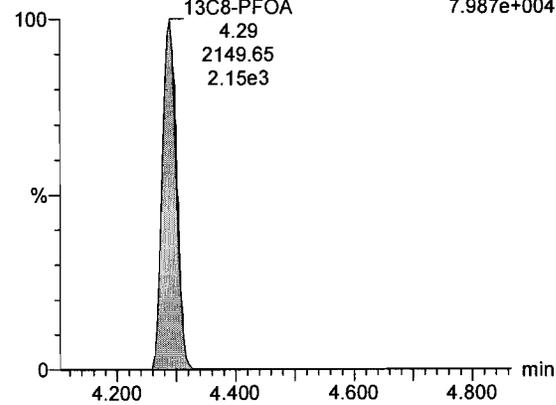
**13C3-PFHxS**

170915G1\_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-  
13C3-PFHxS 4.01 401.9 > 79.9  
5586.69 2.140e+005  
5.59e3



**13C8-PFOA**

170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
13C8-PFOA 4.29 421.3 > 376  
2149.65 7.987e+004  
2.15e3



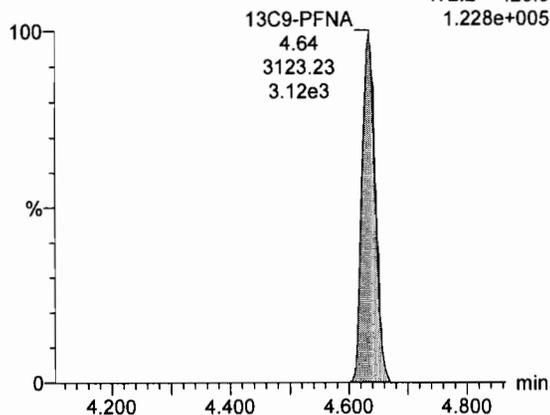
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Name: 170915G1\_11, Date: 15-Sep-2017, Time: 13:52:53, ID: ICV170915G1-1 PFC ICV 1511504, Description: PFC ICV 1511504

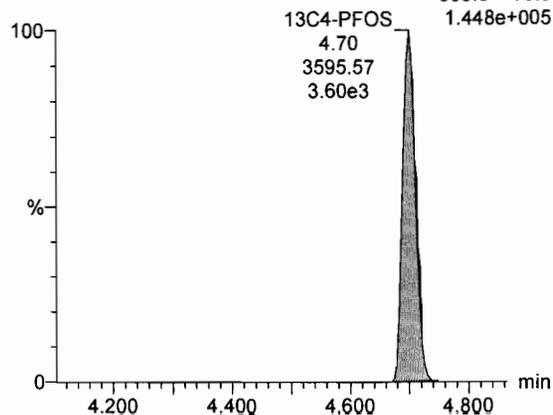
**13C9-PFNA**

170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
1.228e+005



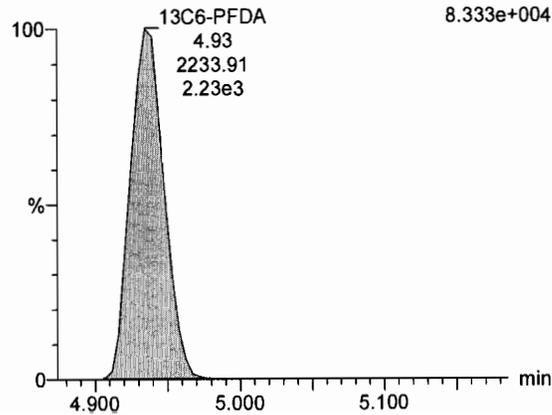
**13C4-PFOS**

170915G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
503.0 > 79.9  
1.448e+005



**13C6-PFDA**

170915G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
519.10 > 473.70  
8.333e+004





Dataset: Untitled

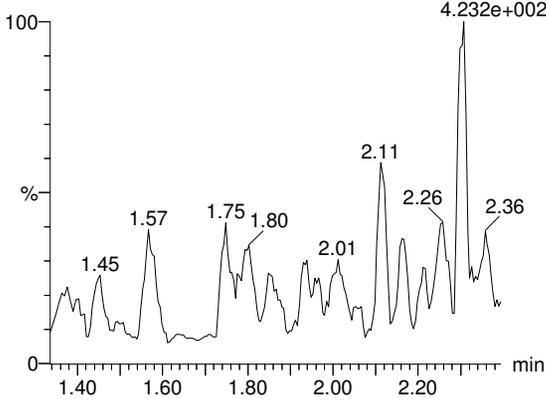
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Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-15-17\_A\_2Trans.cdb 17 Sep 2017 20:04:51

Name: 170915G1\_10, Date: 15-Sep-2017, Time: 13:40:23, ID: IPA, Description: IPA

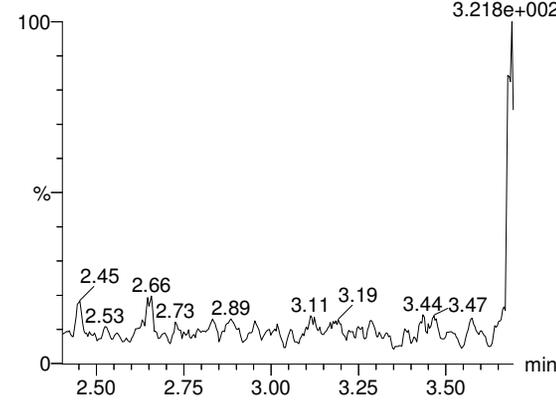
**PFBA**

170915G1\_10 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 212.9 > 168.9 4.232e+002



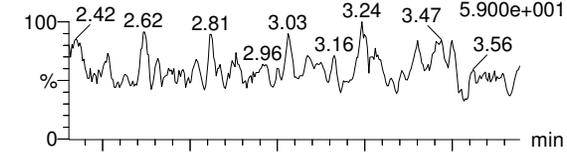
**PFPeA**

170915G1\_10 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 263.0 > 218.8 3.218e+002

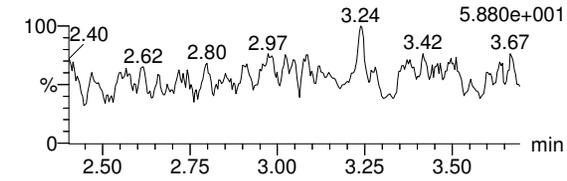


**PFBS**

170915G1\_10 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299.0 > 79.7 5.900e+001

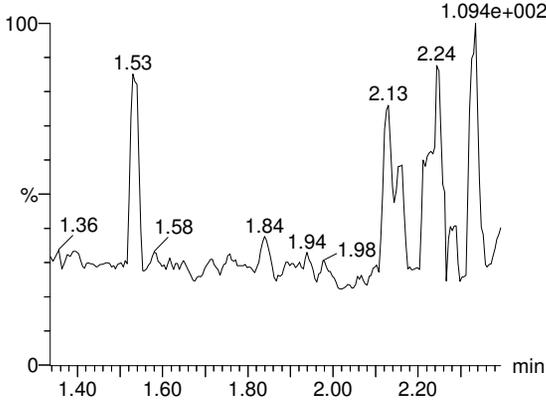


170915G1\_10 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299 > 98.7 5.880e+001



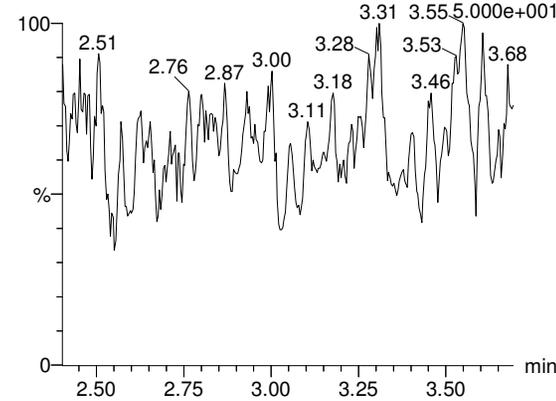
**13C3-PFBA**

170915G1\_10 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 215.9 > 171.8 1.094e+002



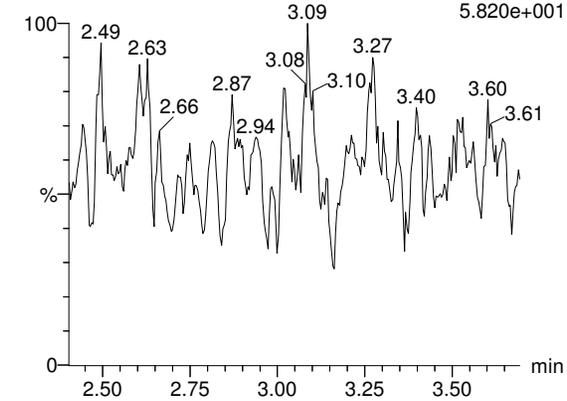
**13C3-PFPeA**

170915G1\_10 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 266.0 > 221.8 5.000e+001



**13C3-PFBS**

170915G1\_10 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 302.0 > 98.8 5.820e+001



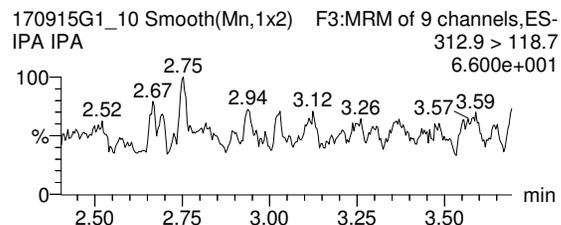
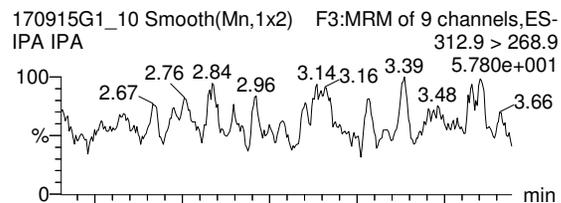
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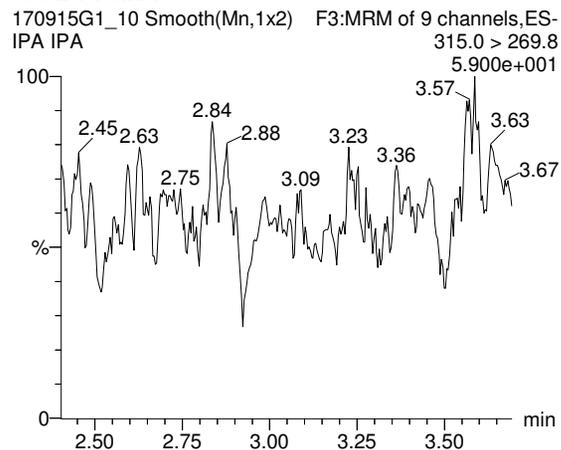
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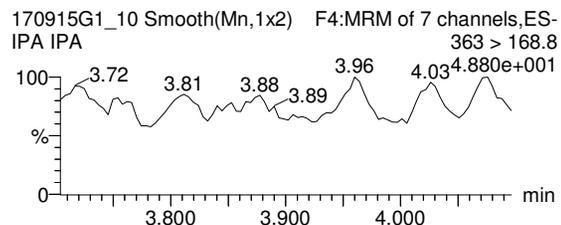
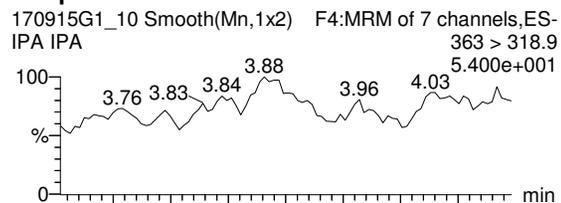
**PFHxA**



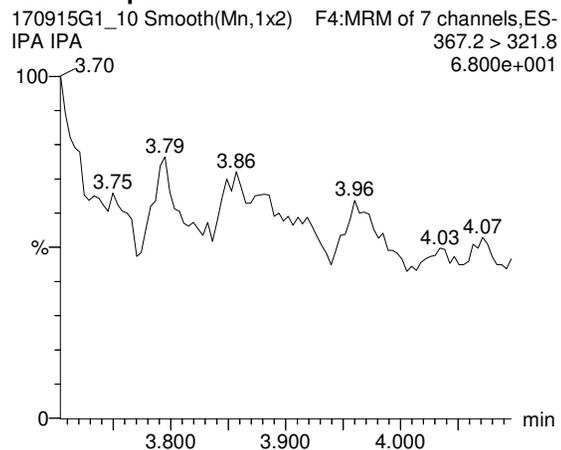
**13C2-PFHxA**



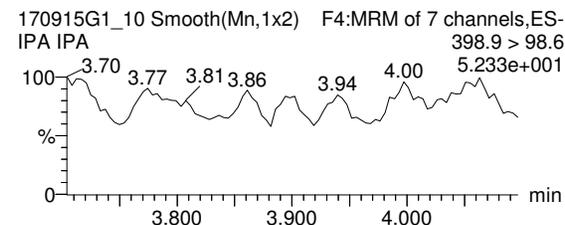
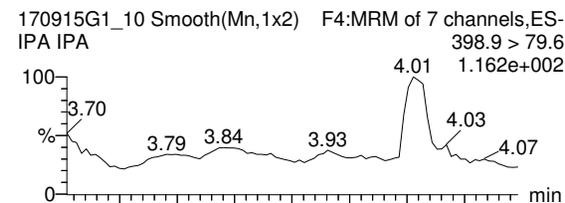
**PFHpA**



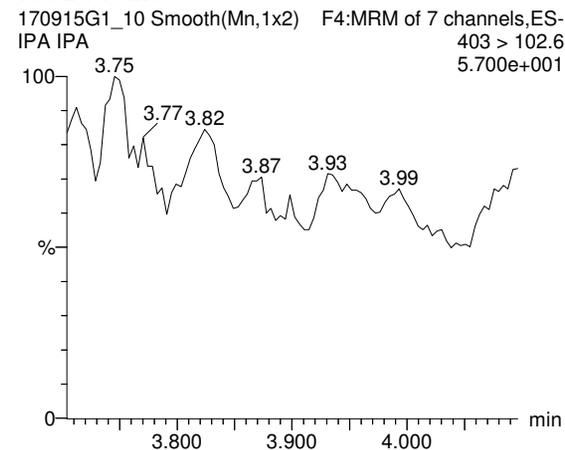
**13C4-PFHpA**



**PFHxS**



**18O2-PFHxS**



Dataset: Untitled

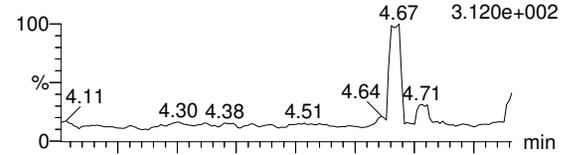
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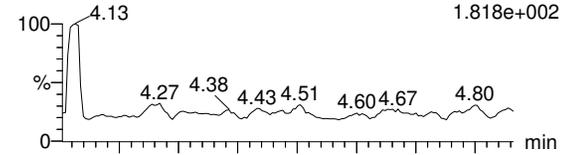
**PFOA**

170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 368.7



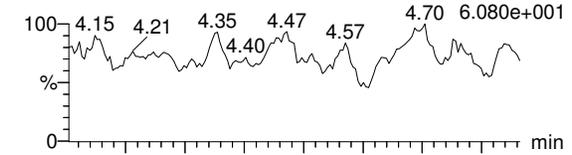
**PFNA**

170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 418.8

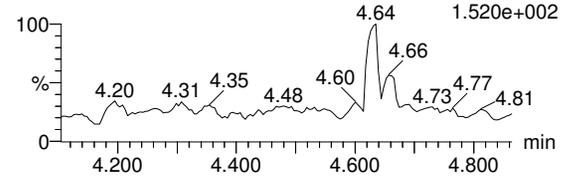


**PFOS**

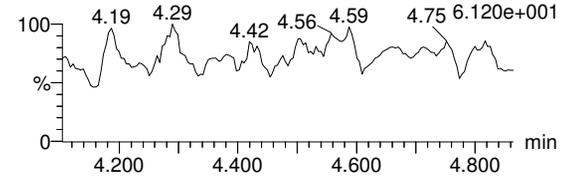
170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499.0 > 79.9



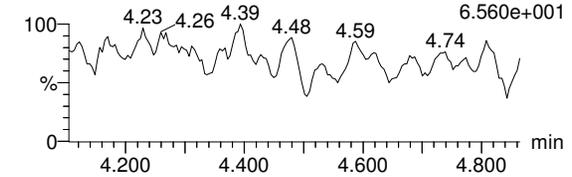
170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 168.8



170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 219.0

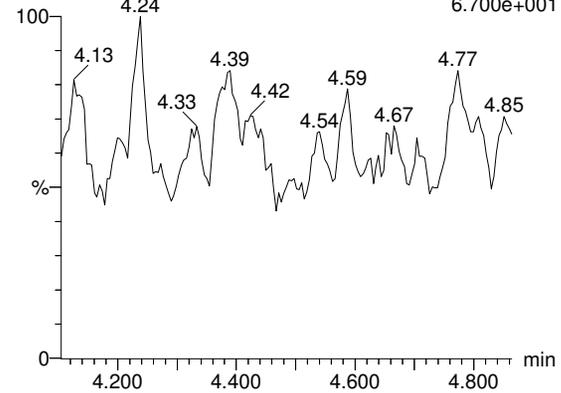


170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499 > 98.8



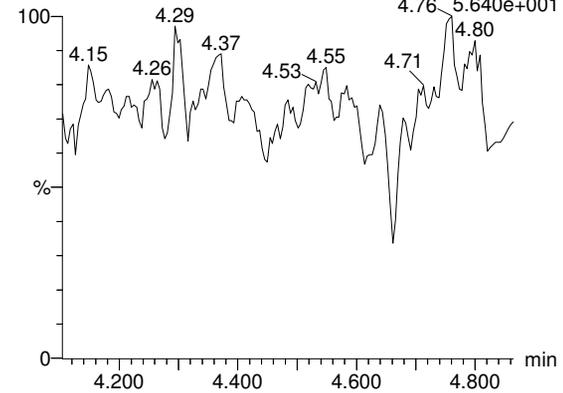
**13C2-PFOA**

170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 414.9 > 369.7



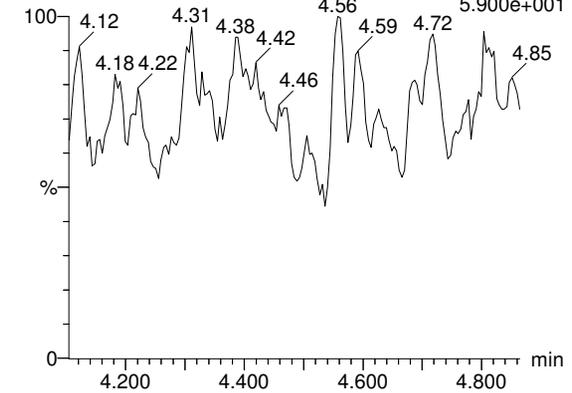
**13C5-PFNA**

170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 468.2 > 422.9



**13C8-PFOS**

170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 507.0 > 79.9



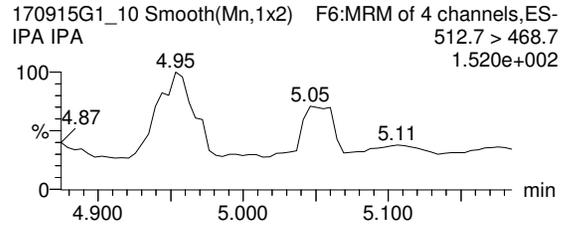
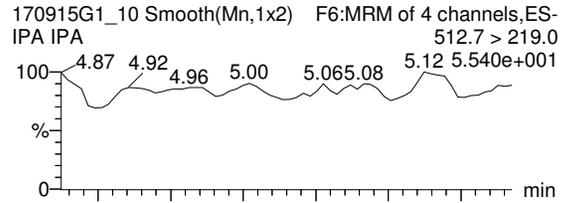
Dataset: Untitled

Last Altered: Sunday, September 17, 2017 20:21:54 Pacific Daylight Time

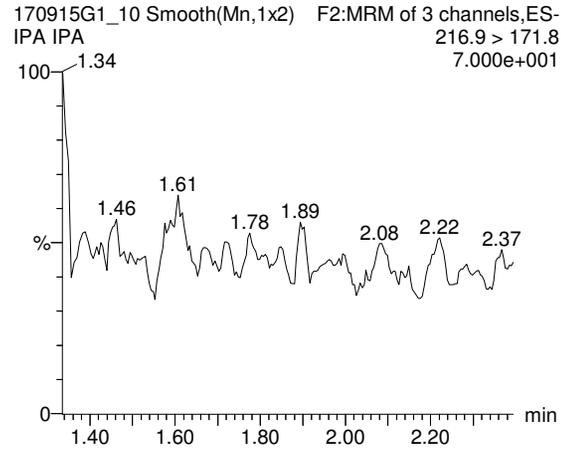
Printed: Sunday, September 17, 2017 20:22:11 Pacific Daylight Time

Name: 170915G1\_10, Date: 15-Sep-2017, Time: 13:40:23, ID: IPA, Description: IPA

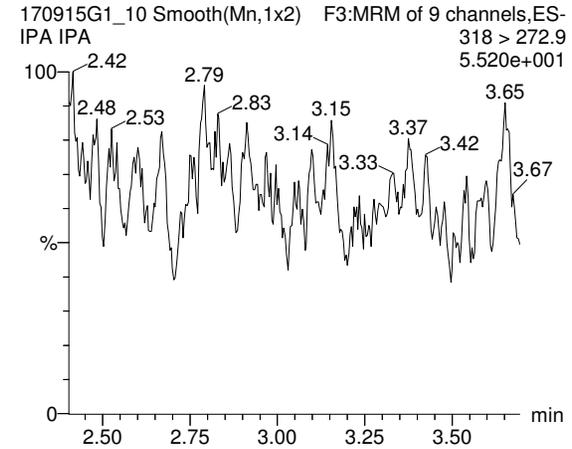
**PFDA**



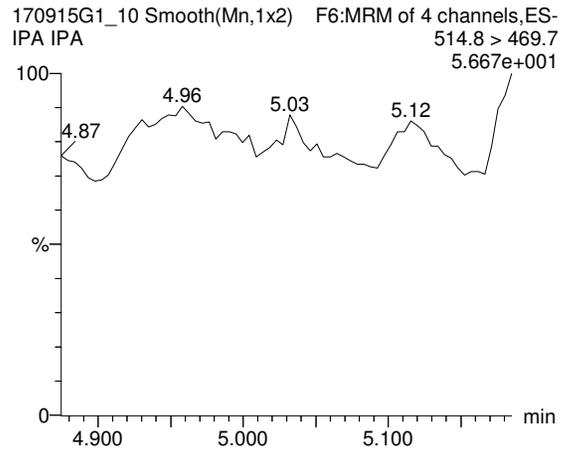
**13C4-PFBA**



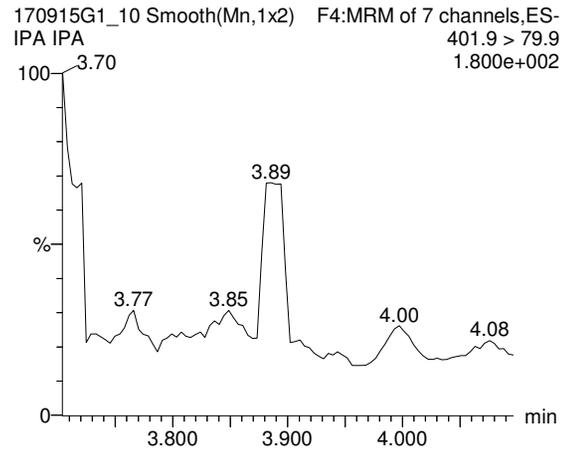
**13C5-PFHxA**



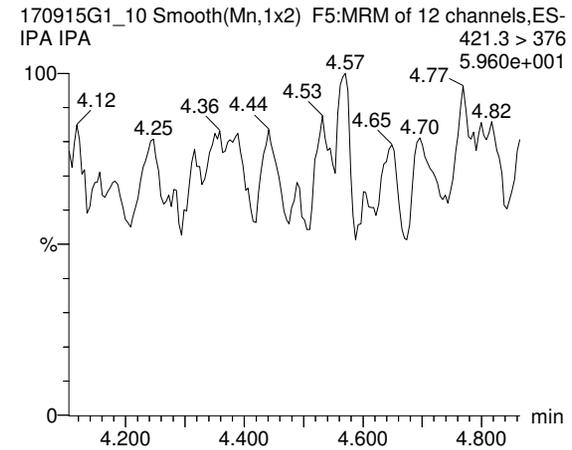
**13C2-PFDA**



**13C3-PFHxS**



**13C8-PFOA**



Dataset: Untitled

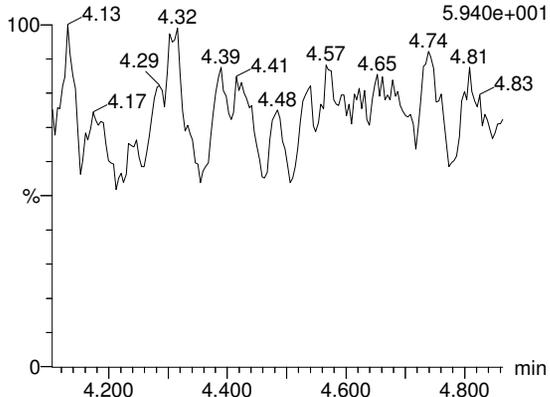
Last Altered: Sunday, September 17, 2017 20:21:54 Pacific Daylight Time

Printed: Sunday, September 17, 2017 20:22:11 Pacific Daylight Time

Name: 170915G1\_10, Date: 15-Sep-2017, Time: 13:40:23, ID: IPA, Description: IPA

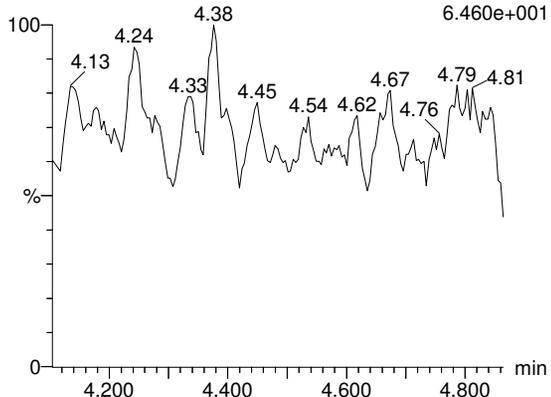
**13C9-PFNA**

170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA  
472.2 > 426.9  
5.940e+001



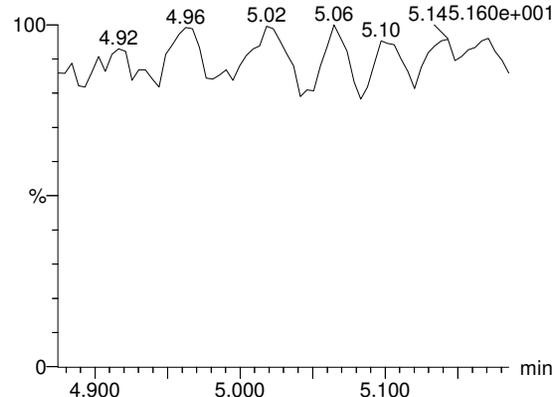
**13C4-PFOS**

170915G1\_10 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA  
503.0 > 79.9  
6.460e+001



**13C6-PFDA**

170915G1\_10 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA  
519.10 > 473.70  
5.145.160e+001



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

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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

#	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

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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



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

#	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

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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

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

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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

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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

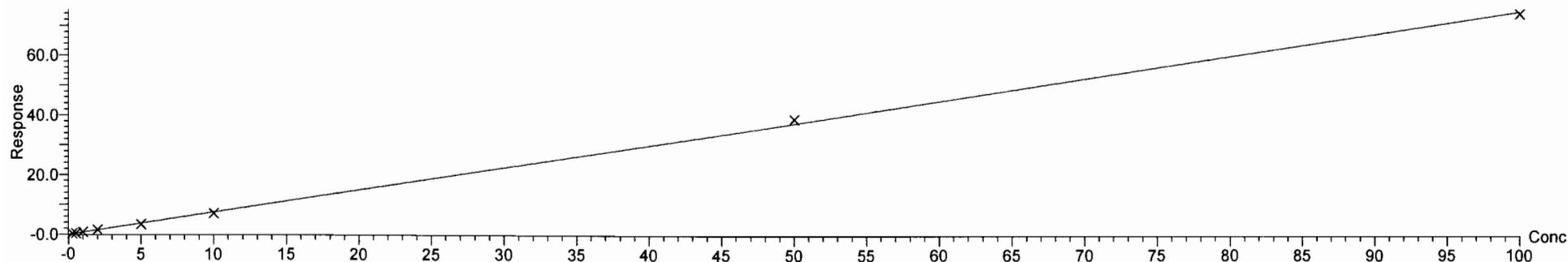
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1	170928G1_1	IPA	28-Sep-17	08:24:44
2	170928G1_2	ST170928G1-1 PFC CS-2 17I2622	28-Sep-17	08:37:06
3	170928G1_3	ST170928G1-2 PFC CS-1 17I2623	28-Sep-17	08:49:33
4	170928G1_4	ST170928G1-3 PFC CS0 17I2624	28-Sep-17	09:02:05
5	170928G1_5	ST170928G1-4 PFC 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

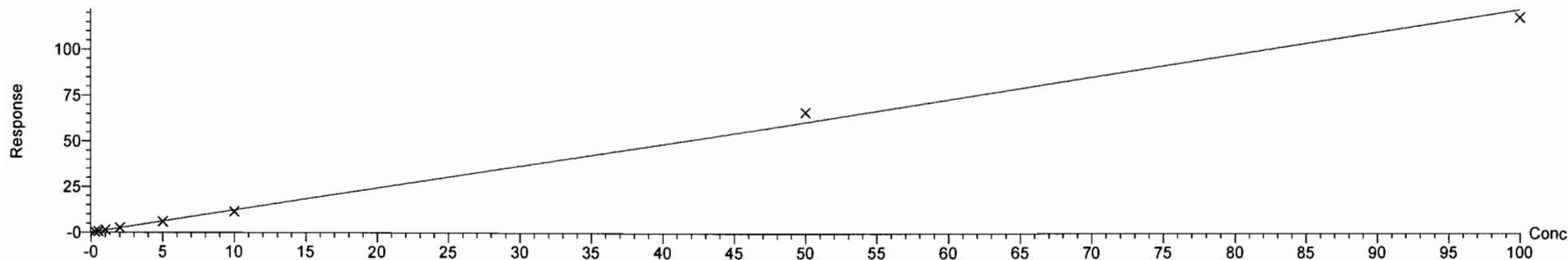
Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

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



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



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

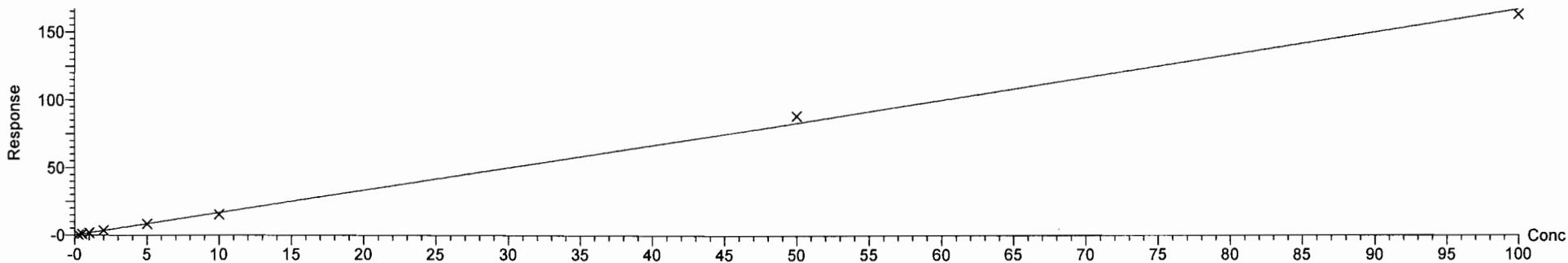
Compound name: PFBS

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



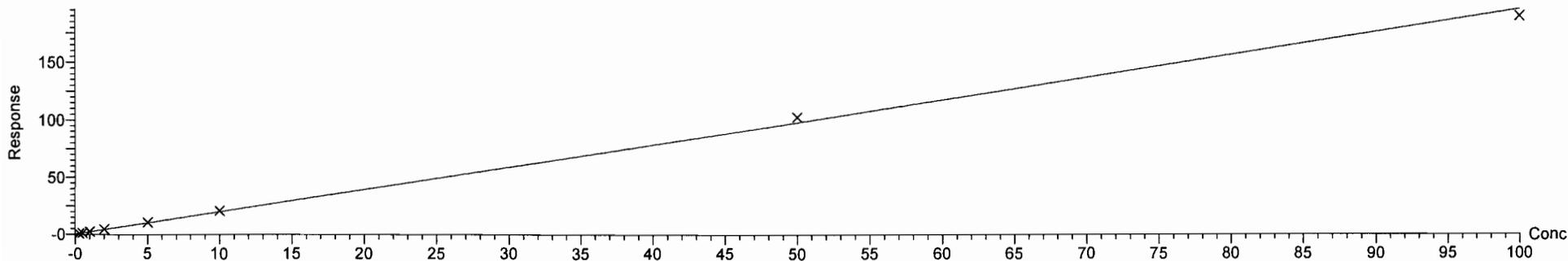
Compound name: PFHxA

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



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

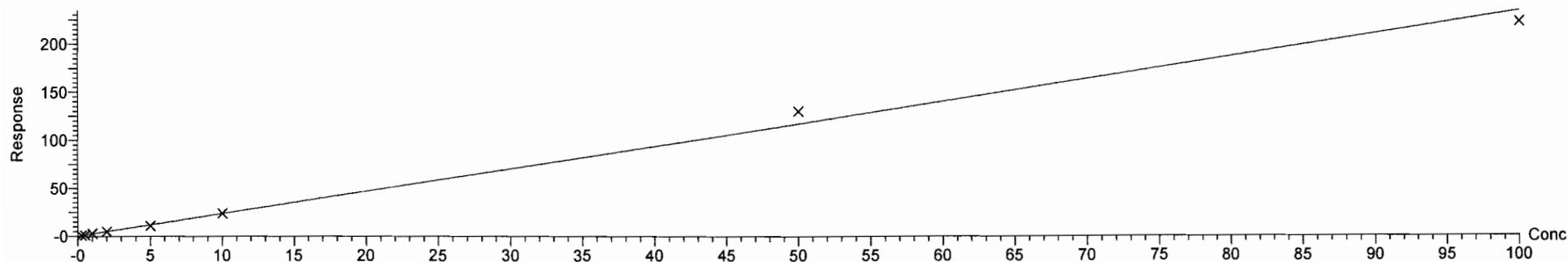
Compound name: PFHpA

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



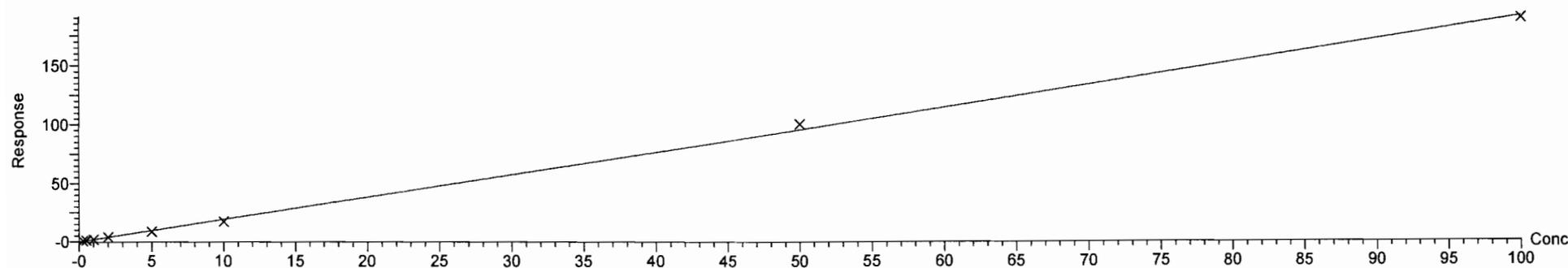
Compound name: PFHxS

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

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

Printed: Thursday, September 28, 2017 10:51:53 Pacific Daylight Time

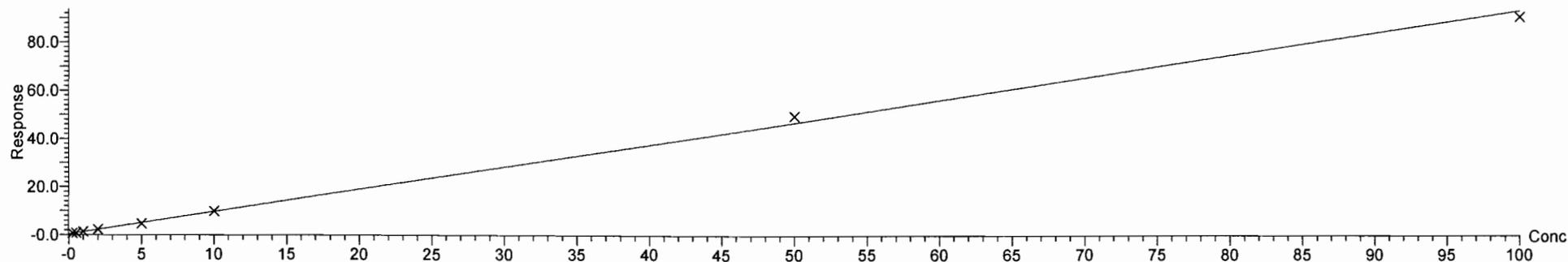
Compound name: PFOA

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



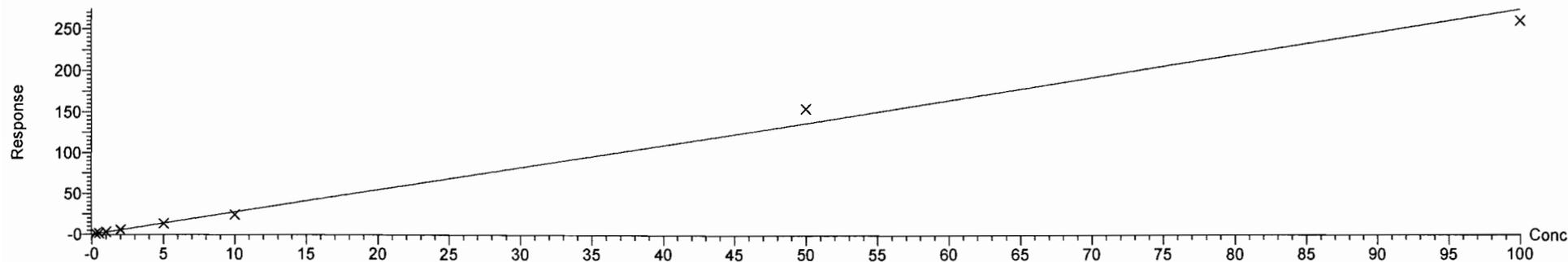
Compound name: PFNA

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



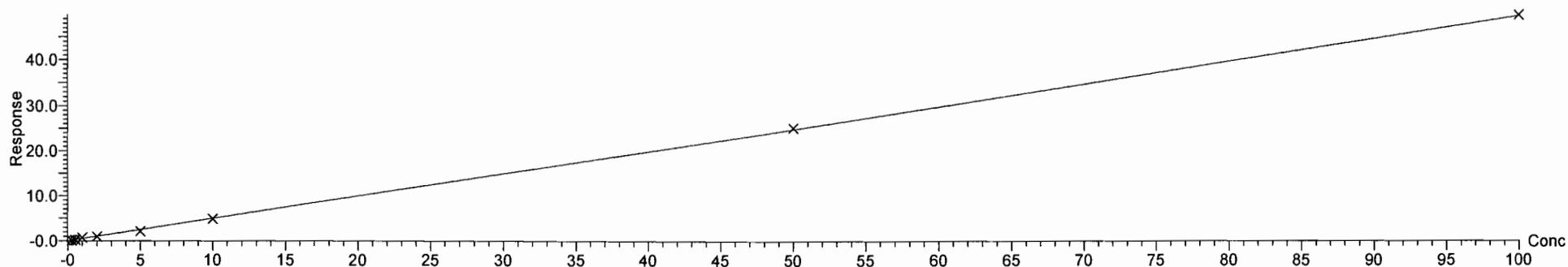


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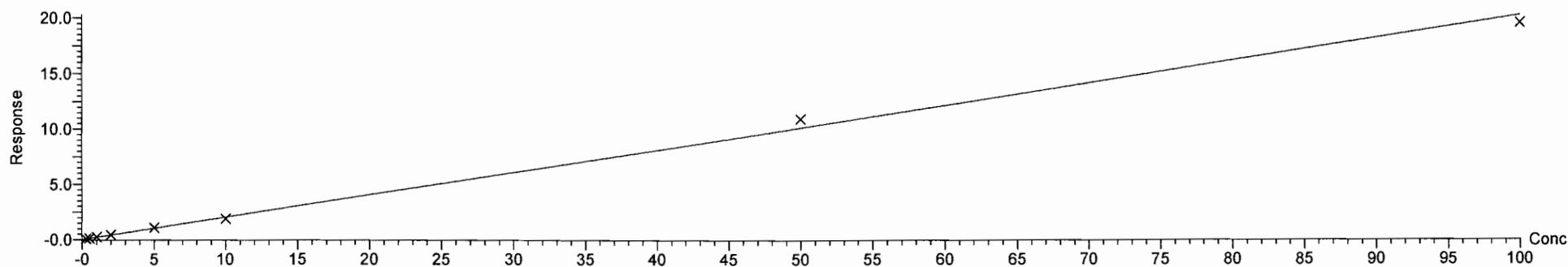
Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

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



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



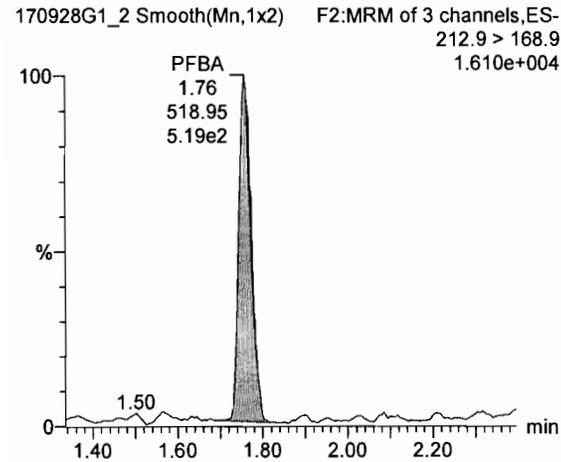
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

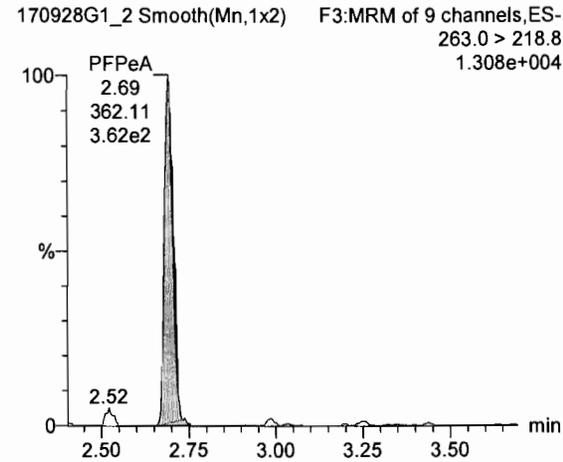
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1\_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 1712622, Description: PFC CS-2 1712622

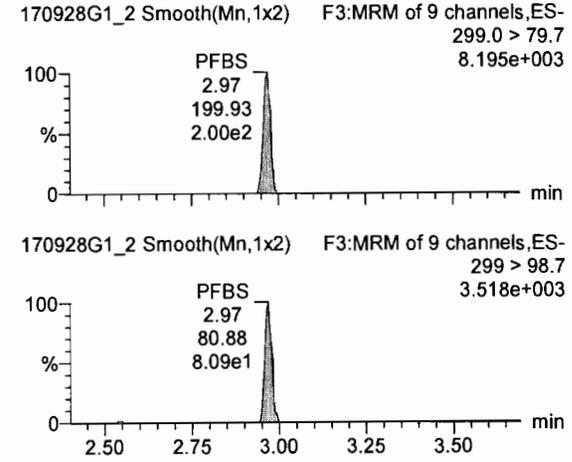
**PFBA**



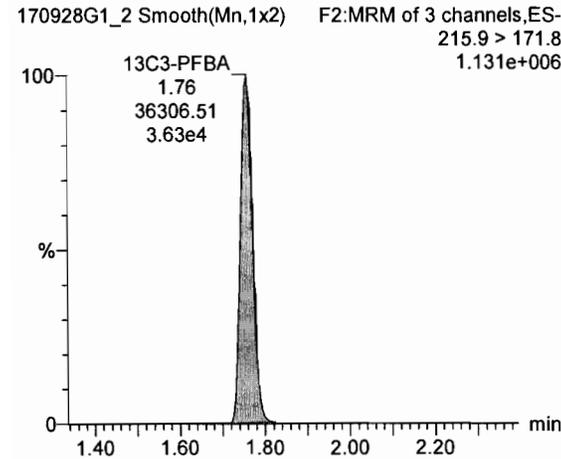
**PFPeA**



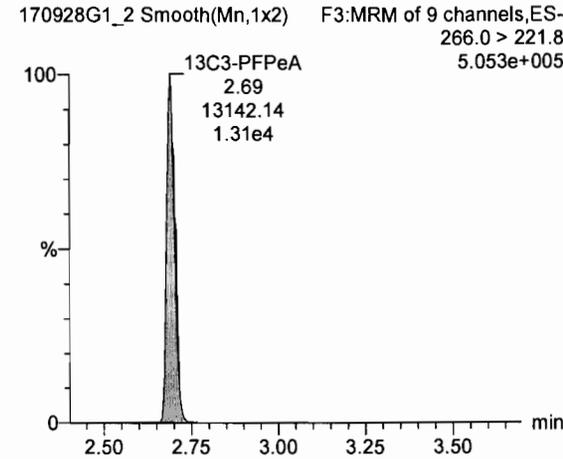
**PFBS**



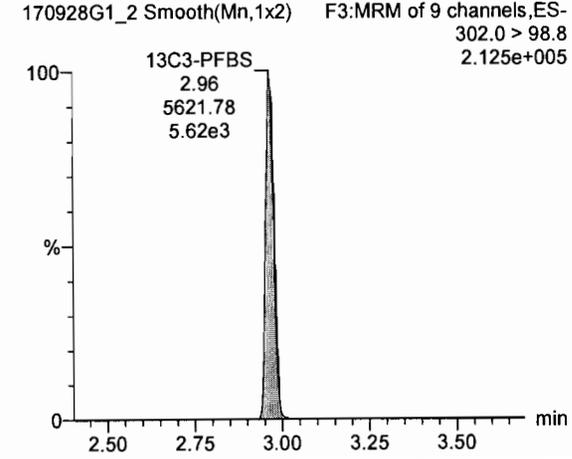
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

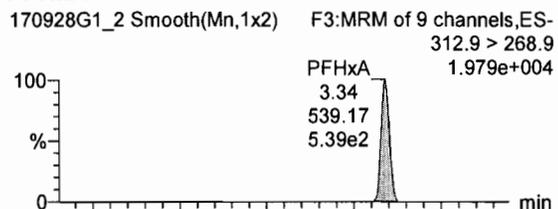


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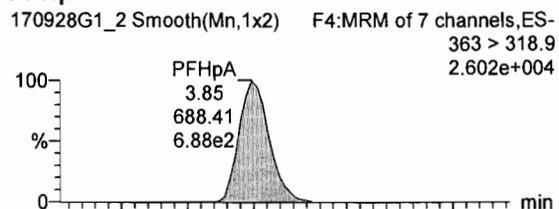
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 17I2622, Description: PFC CS-2 17I2622

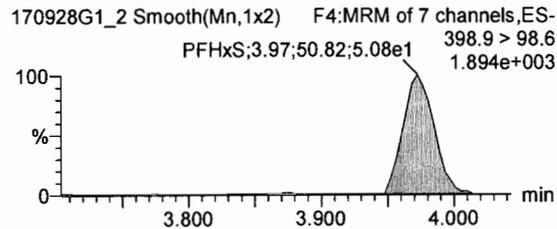
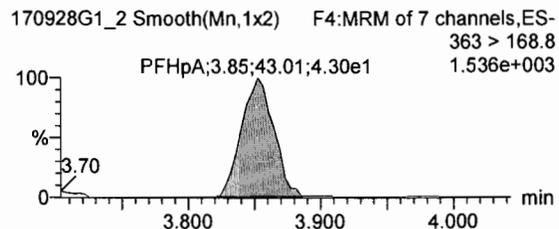
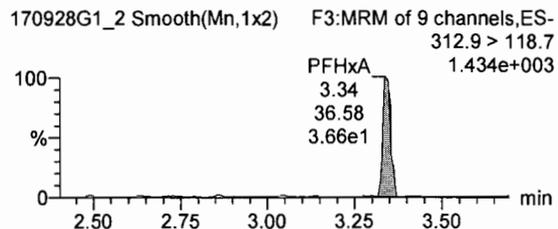
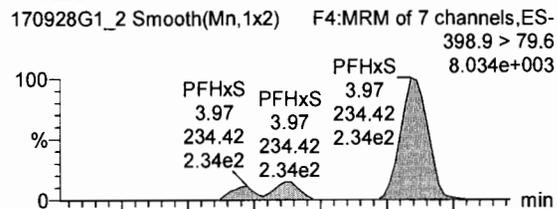
**PFHxA**



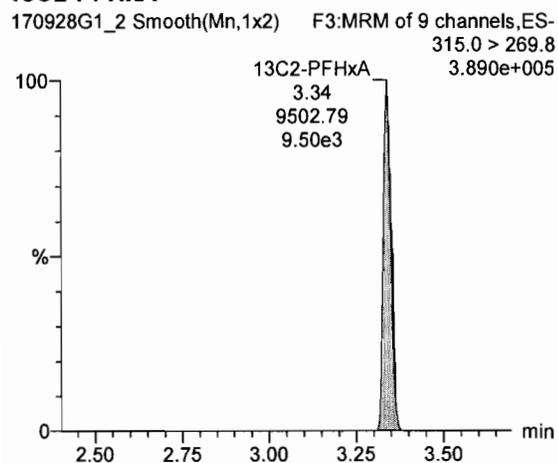
**PFHpA**



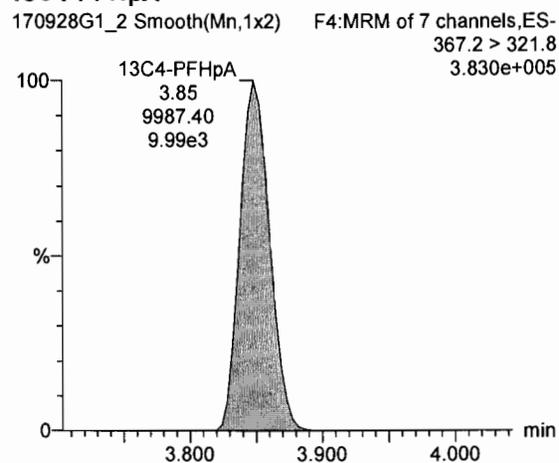
**PFHxS**



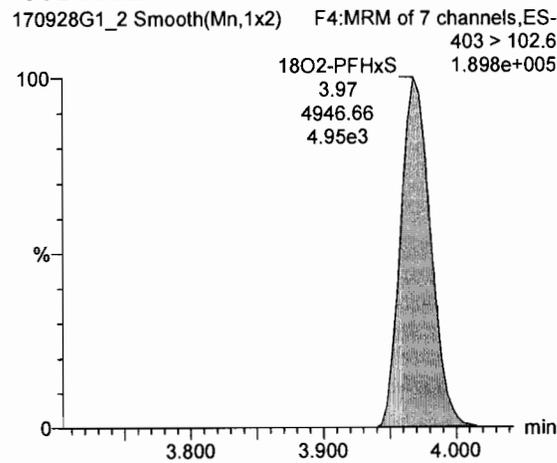
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

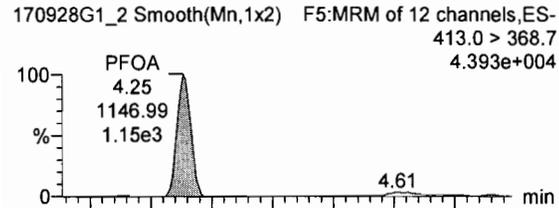


Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

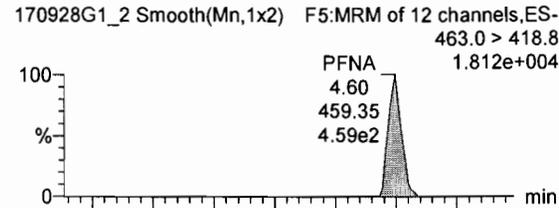
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 1712622, Description: PFC CS-2 1712622

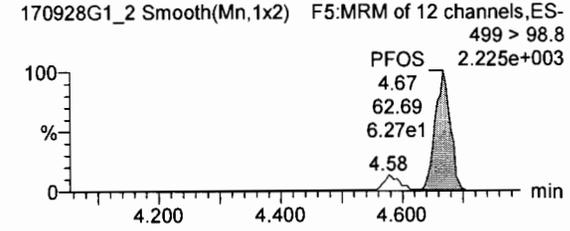
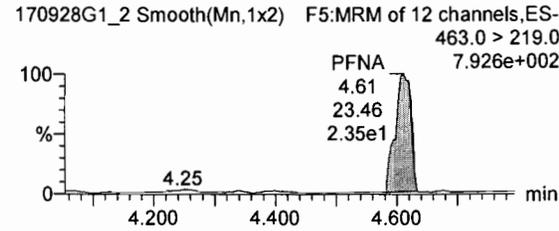
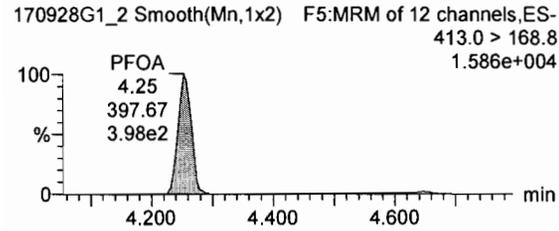
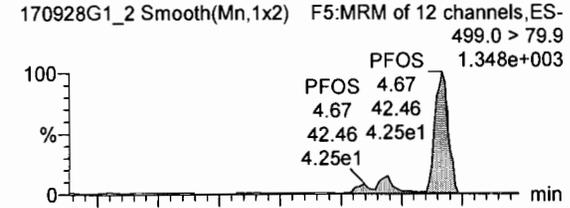
**PFOA**



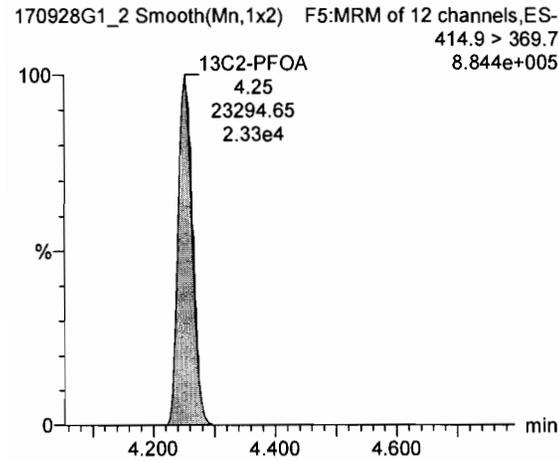
**PFNA**



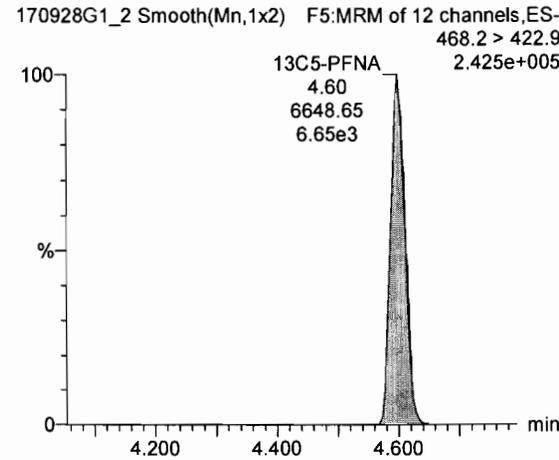
**PFOS**



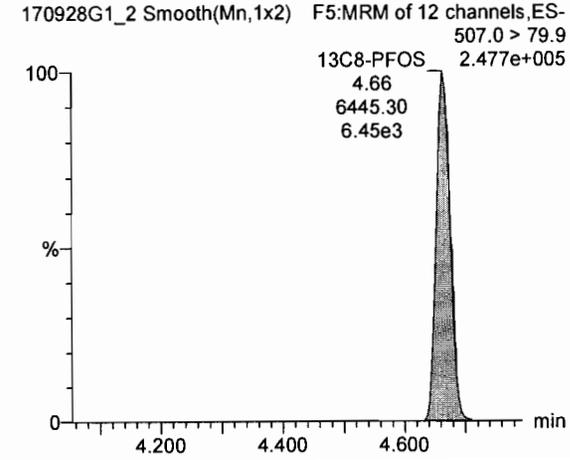
**13C2-PFOA**



**13C5-PFNA**



**13C8-PFOS**



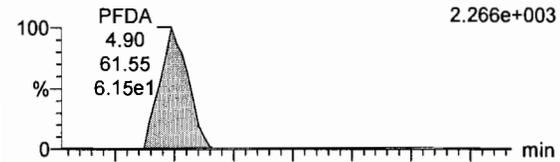
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

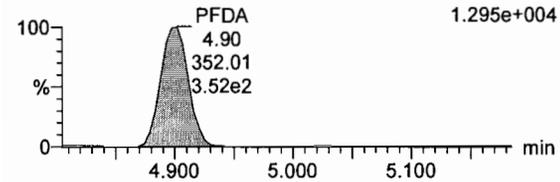
Name: 170928G1\_2, Date: 28-Sep-2017, Time: 08:37:06, ID: ST170928G1-1 PFC CS-2 17I2622, Description: PFC CS-2 17I2622

**PFDA**

170928G1\_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-512.7 > 219.0  
2.266e+003

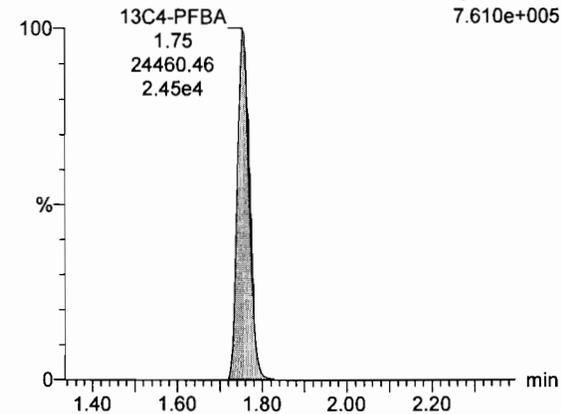


170928G1\_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-512.7 > 468.7  
1.295e+004



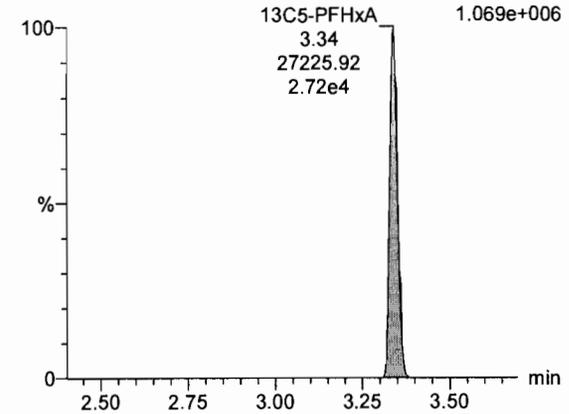
**13C4-PFBA**

170928G1\_2 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-216.9 > 171.8  
7.610e+005



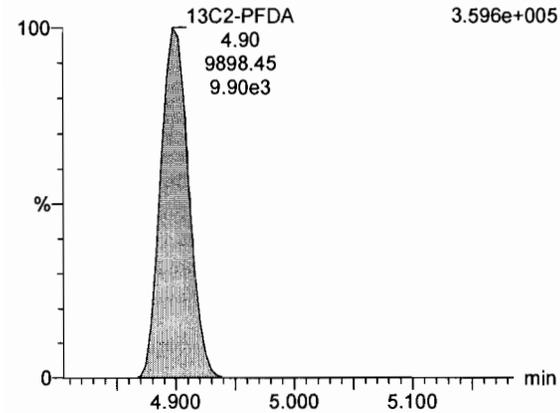
**13C5-PFHxA**

170928G1\_2 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-318 > 272.9  
1.069e+006



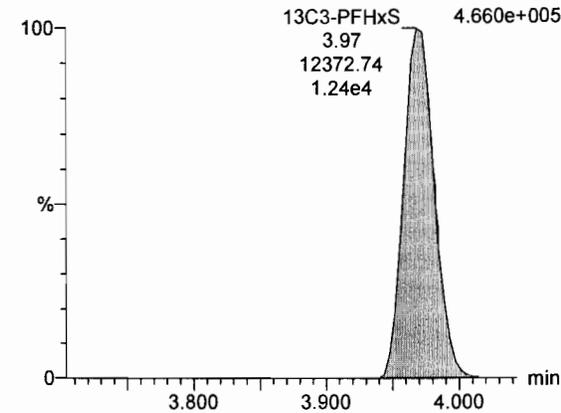
**13C2-PFDA**

170928G1\_2 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-514.8 > 469.7  
3.596e+005



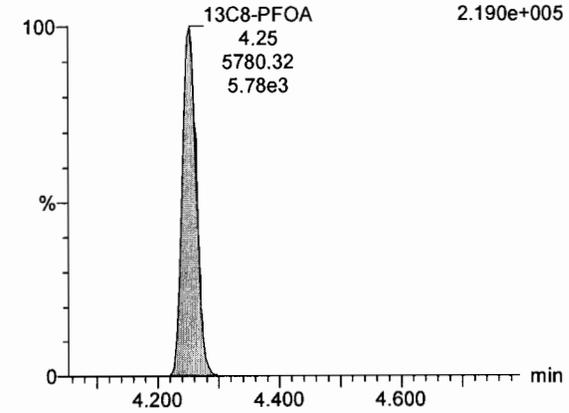
**13C3-PFHxS**

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

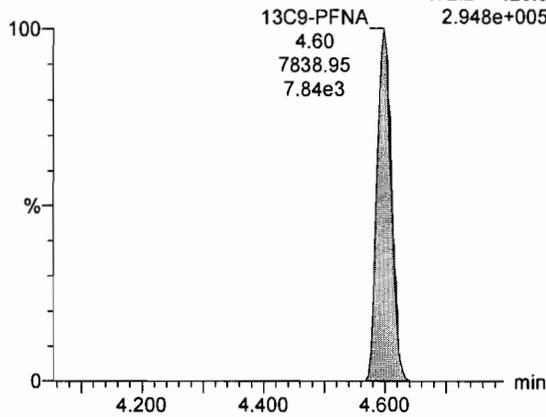
Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time

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

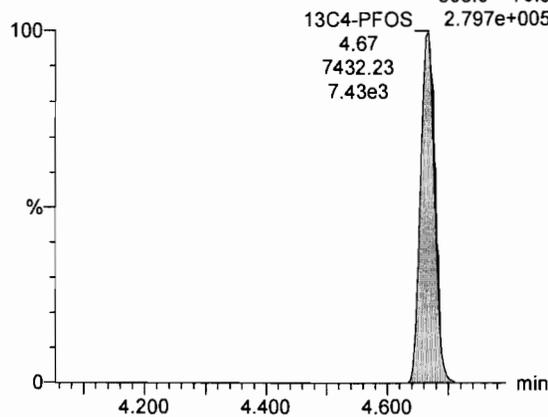
**13C9-PFNA**

170928G1\_2 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.948e+005



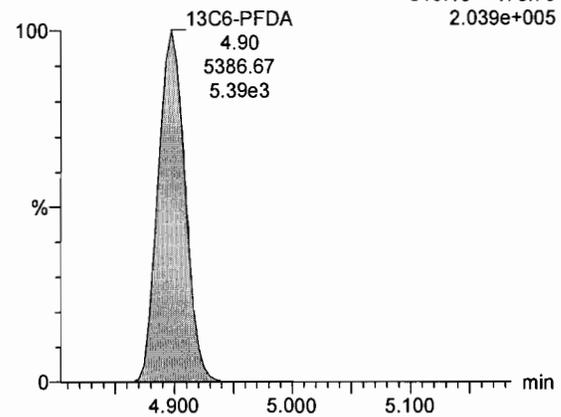
**13C4-PFOS**

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



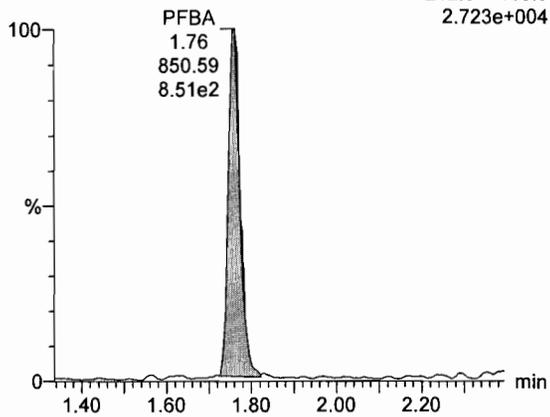
Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-CRV.qld

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

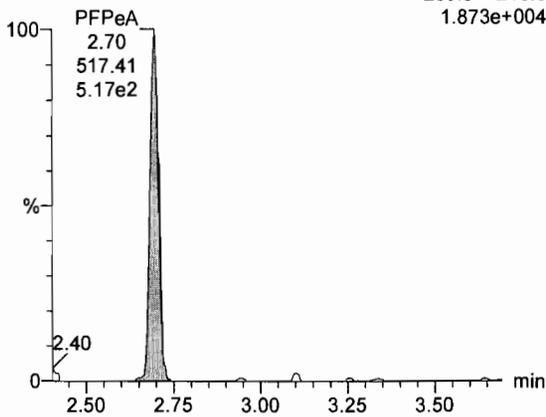
**PFBA**

170928G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
2.723e+004



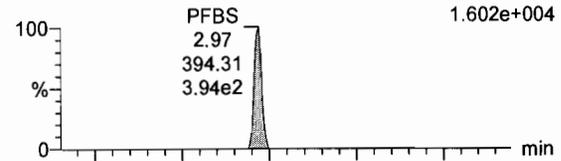
**PFPeA**

170928G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
1.873e+004

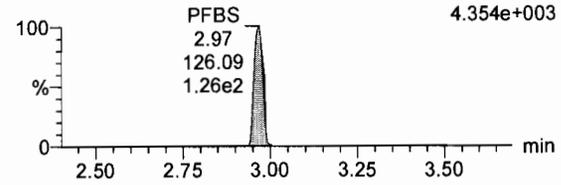


**PFBS**

170928G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.602e+004

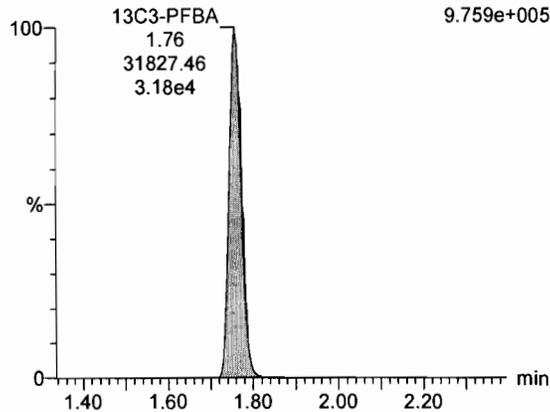


170928G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
4.354e+003



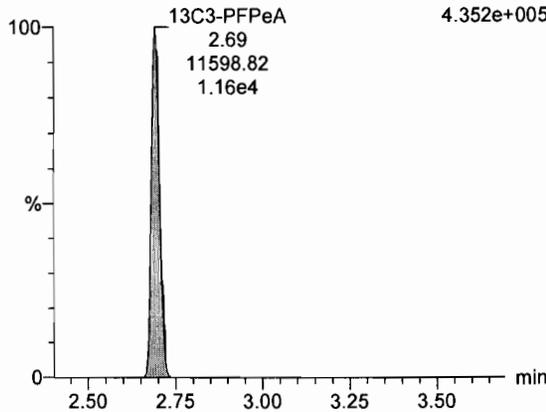
**13C3-PFBA**

170928G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
9.759e+005



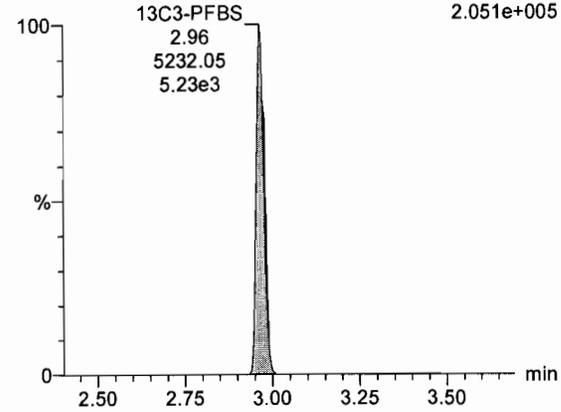
**13C3-PFPeA**

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

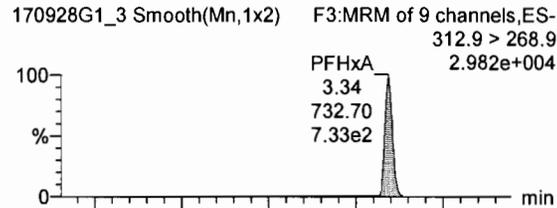


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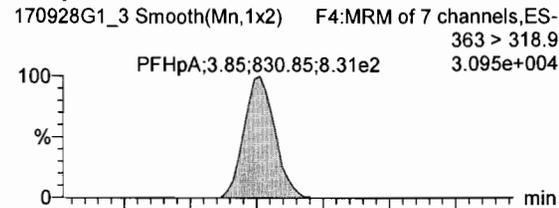
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Name: 170928G1\_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

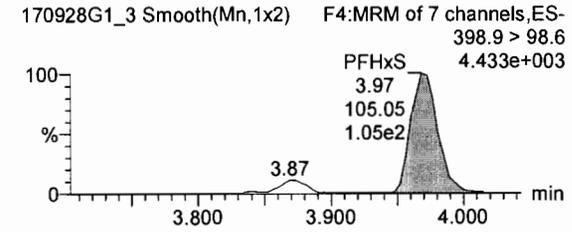
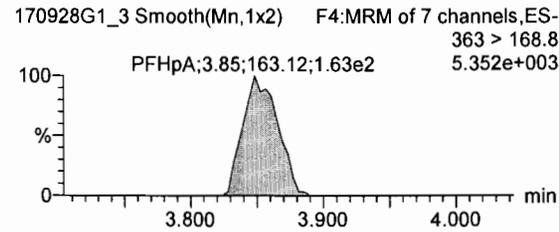
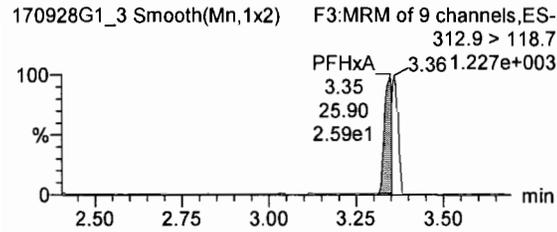
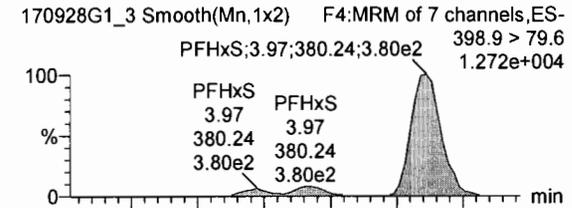
**PFHxA**



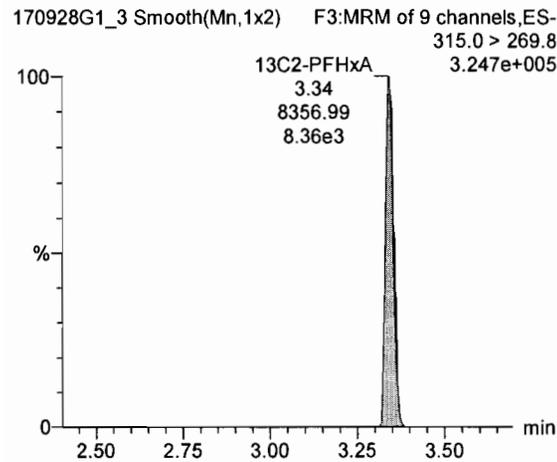
**PFHpA**



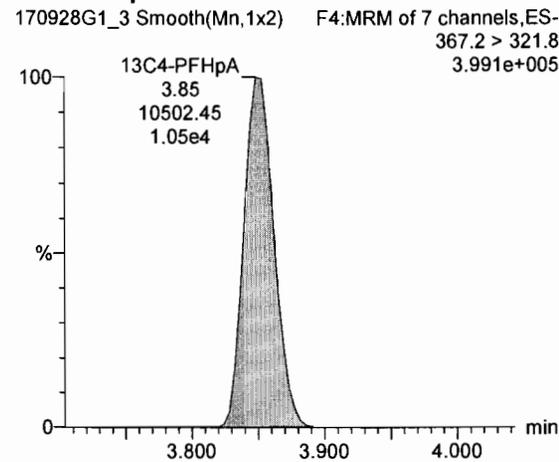
**PFHxS**



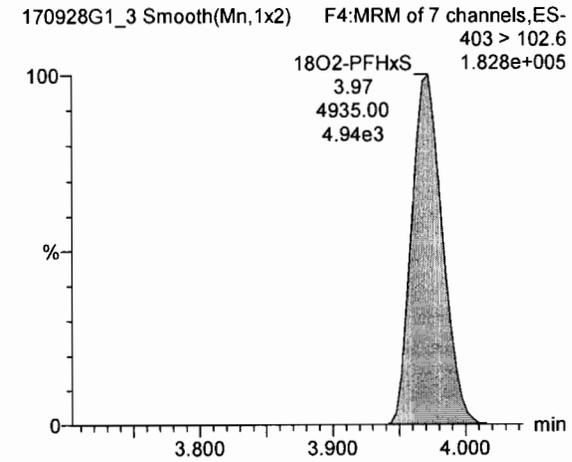
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



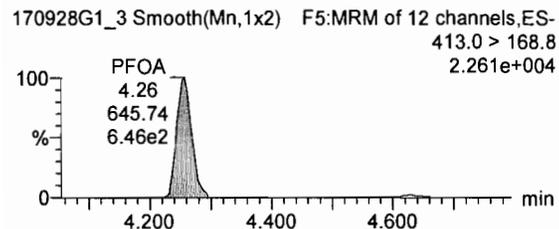
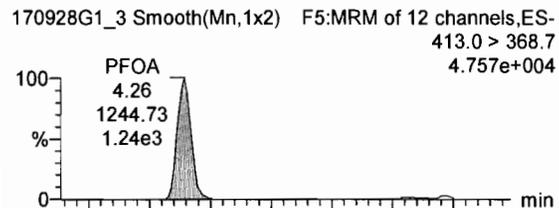


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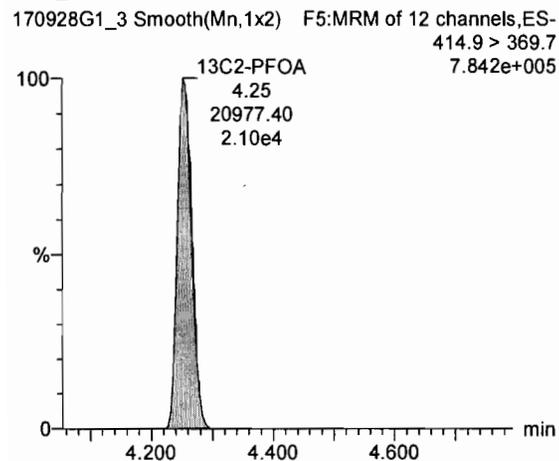
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

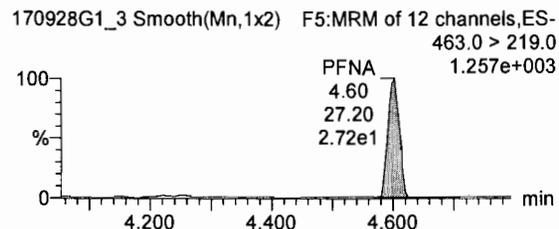
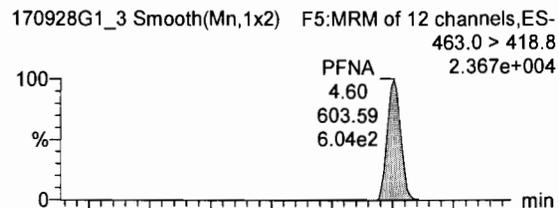
**PFOA**



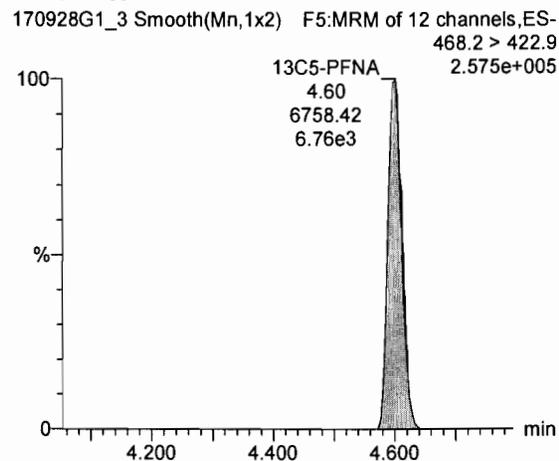
**13C2-PFOA**



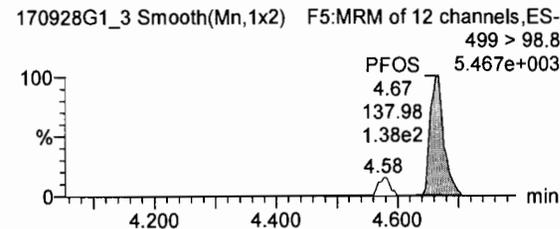
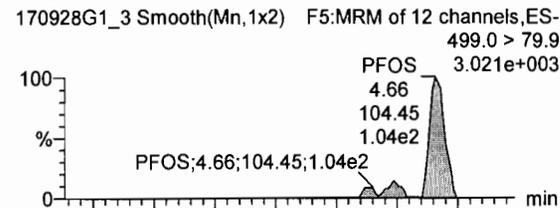
**PFNA**



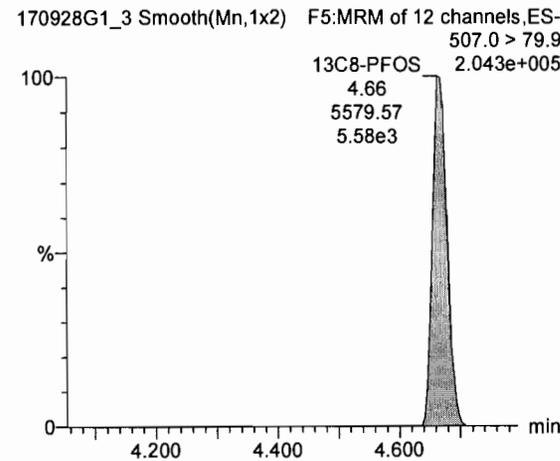
**13C5-PFNA**



**PFOS**



**13C8-PFOS**



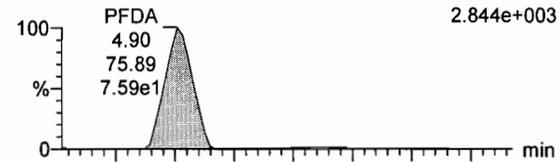
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
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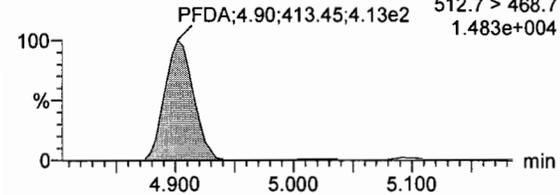
Name: 170928G1\_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 1712623, Description: PFC CS-1 1712623

**PFDA**

170928G1\_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
2.844e+003

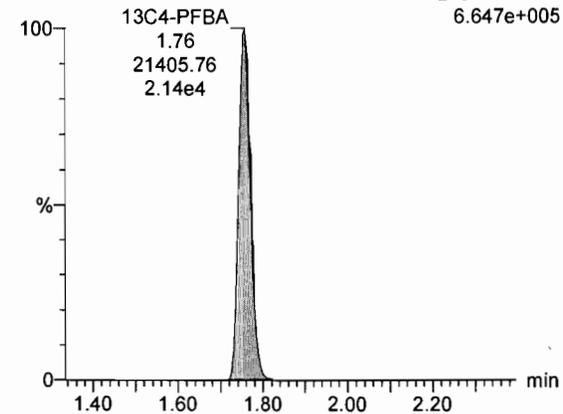


170928G1\_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
1.483e+004



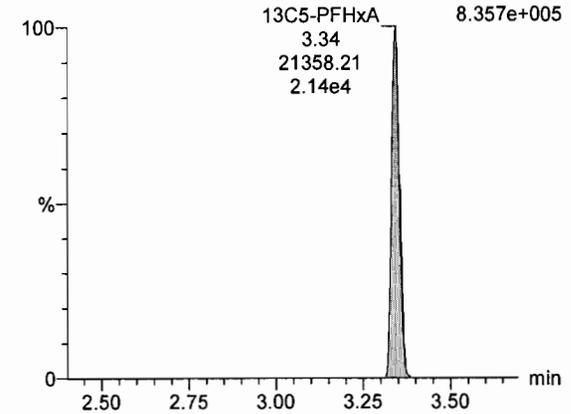
**13C4-PFBA**

170928G1\_3 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
6.647e+005



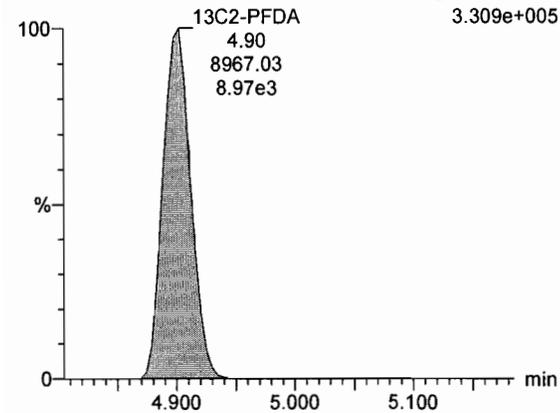
**13C5-PFHxA**

170928G1\_3 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
8.357e+005



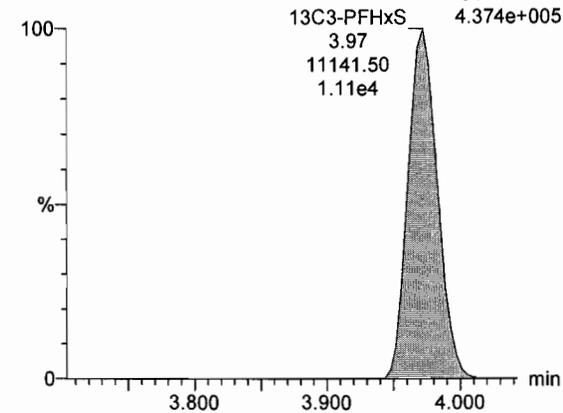
**13C2-PFDA**

170928G1\_3 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
3.309e+005



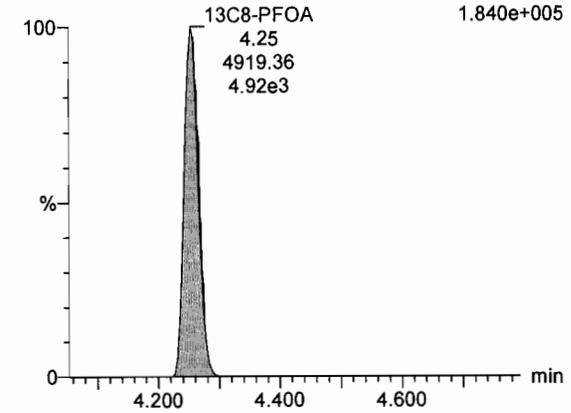
**13C3-PFHxS**

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

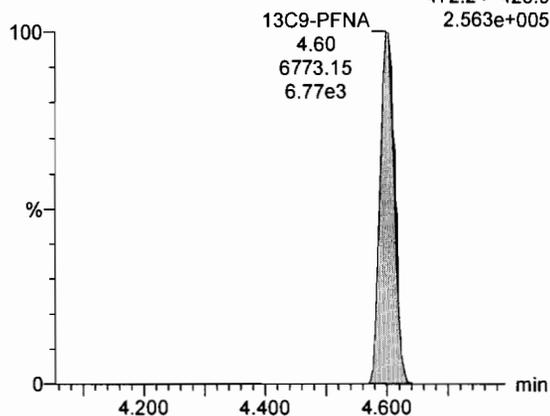
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Name: 170928G1\_3, Date: 28-Sep-2017, Time: 08:49:33, ID: ST170928G1-2 PFC CS-1 17I2623, Description: PFC CS-1 17I2623

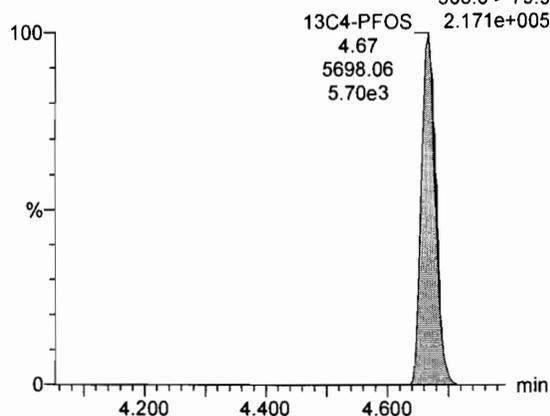
**13C9-PFNA**

170928G1\_3 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.563e+005



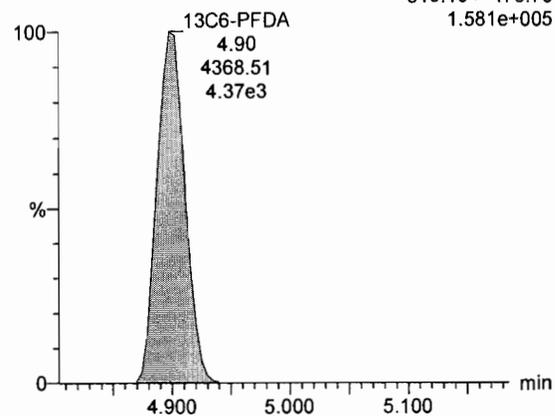
**13C4-PFOS**

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

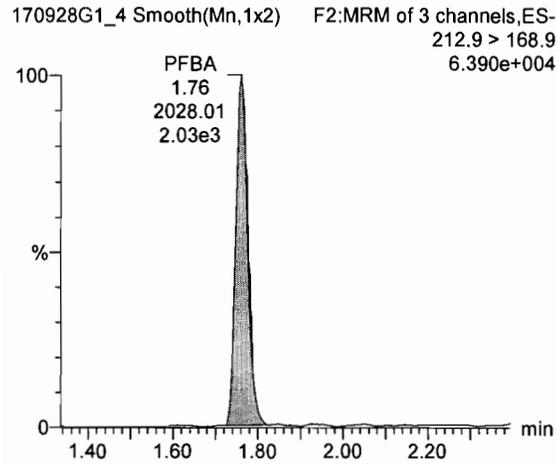


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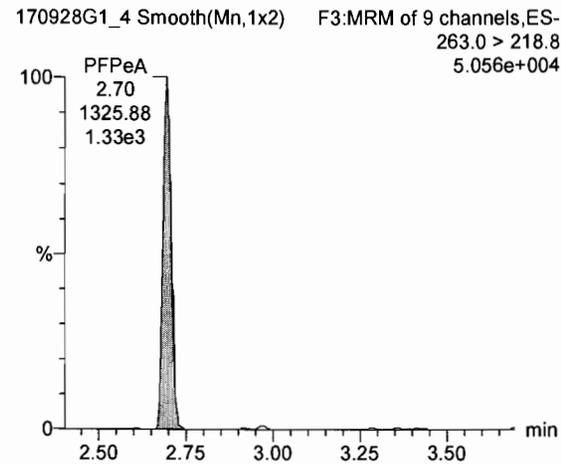
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_4, Date: 28-Sep-2017, Time: 09:02:05, ID: ST170928G1-3 PFC CS0 1712624, Description: PFC CS0 1712624

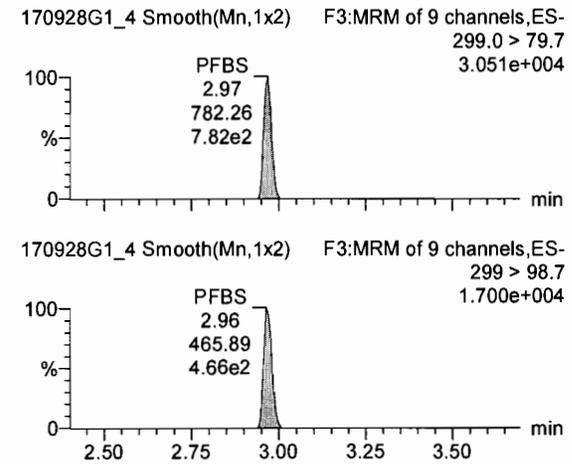
**PFBA**



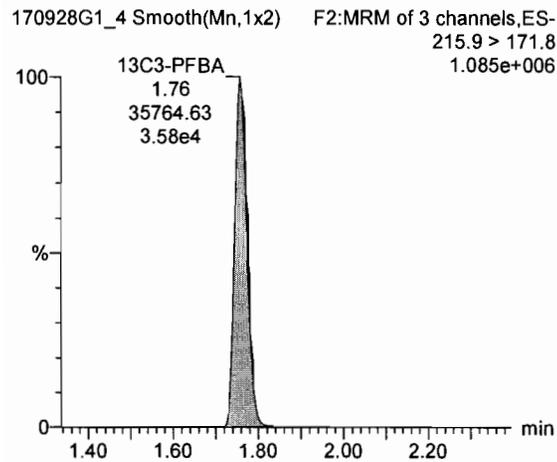
**PFPeA**



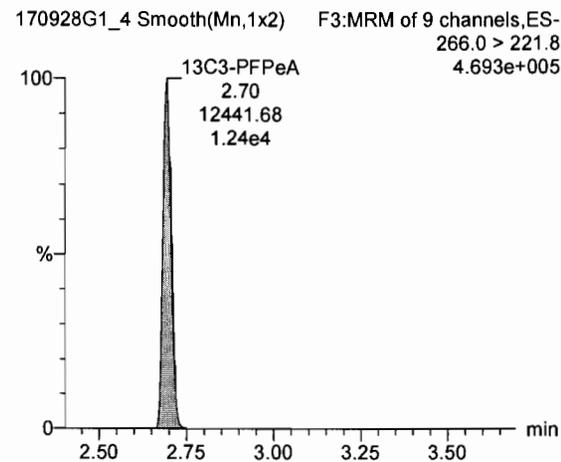
**PFBS**



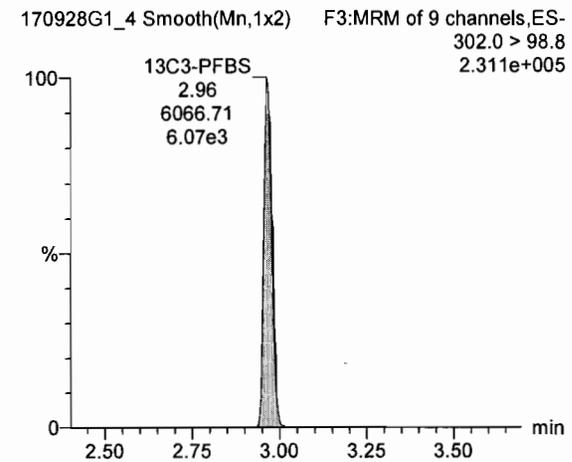
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

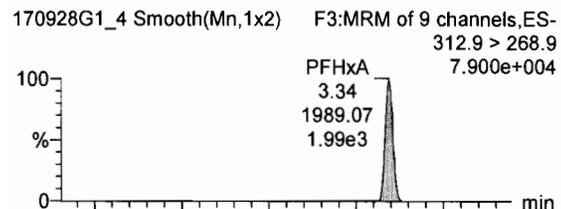


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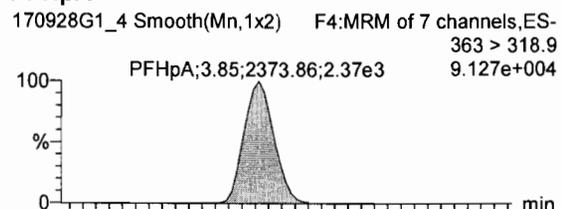
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Name: 170928G1\_4, Date: 28-Sep-2017, Time: 09:02:05, ID: ST170928G1-3 PFC CS0 1712624, Description: PFC CS0 1712624

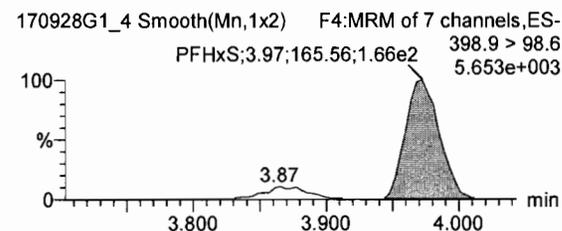
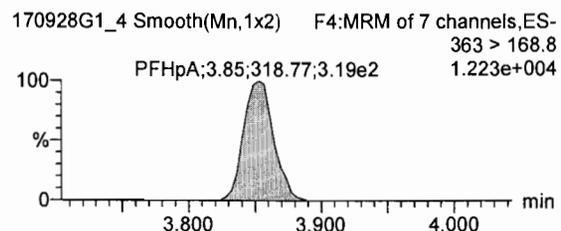
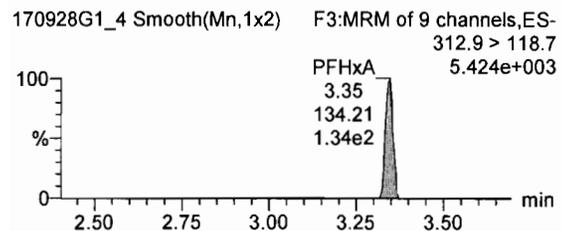
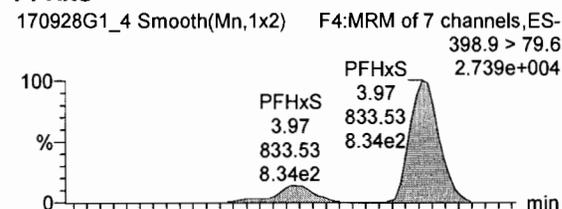
**PFHxA**



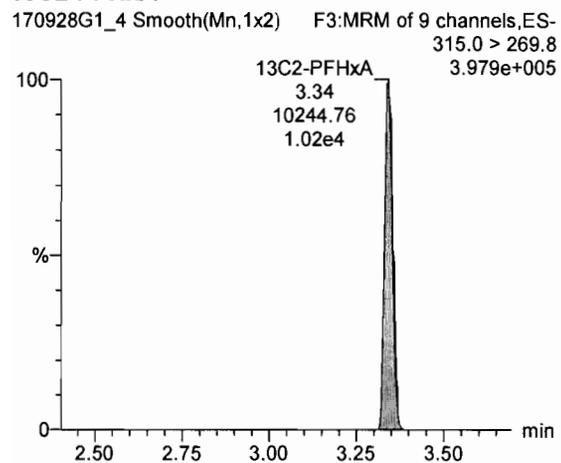
**PFHpA**



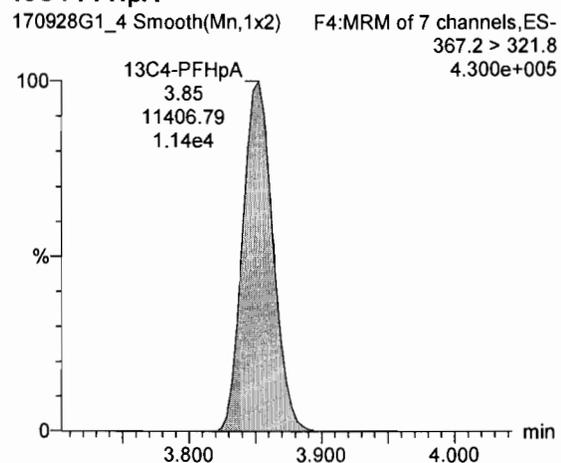
**PFHxS**



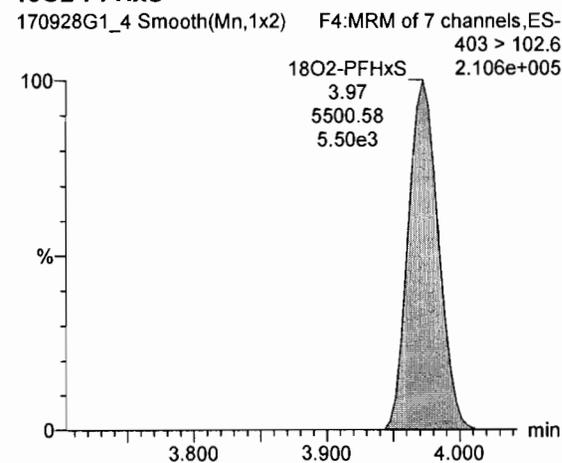
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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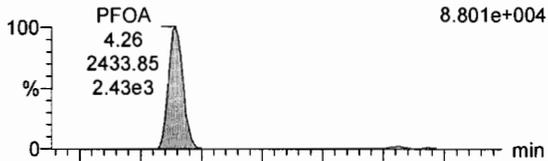
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

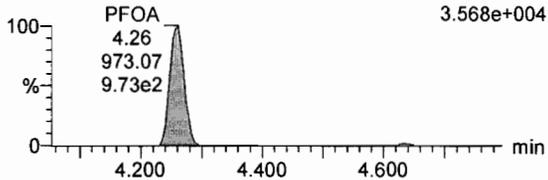
Name: 170928G1\_4, Date: 28-Sep-2017, Time: 09:02:05, ID: ST170928G1-3 PFC CS0 1712624, Description: PFC CS0 1712624

**PFOA**

170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7  
8.801e+004

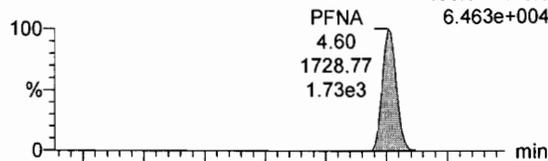


170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8  
3.568e+004

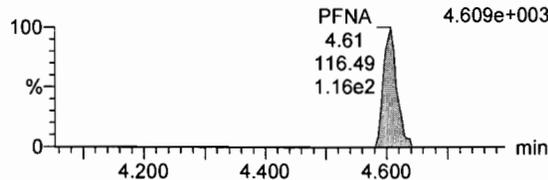


**PFNA**

170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8  
6.463e+004

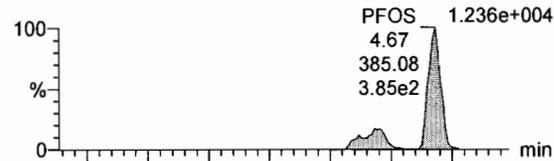


170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0  
4.609e+003

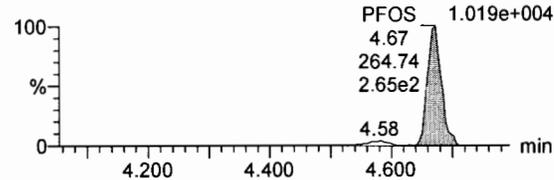


**PFOS**

170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9  
1.236e+004

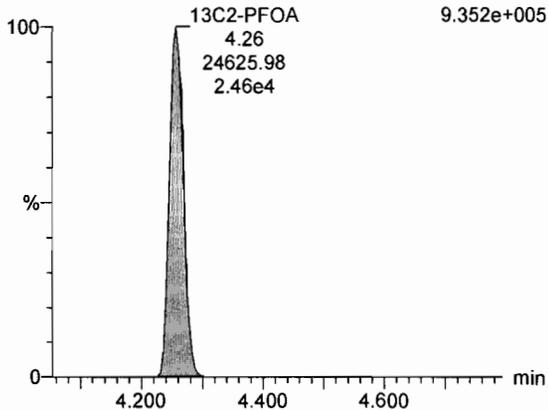


170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8  
1.019e+004



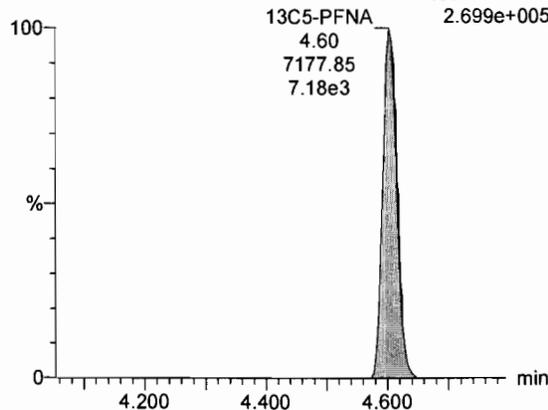
**13C2-PFOA**

170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7  
9.352e+005



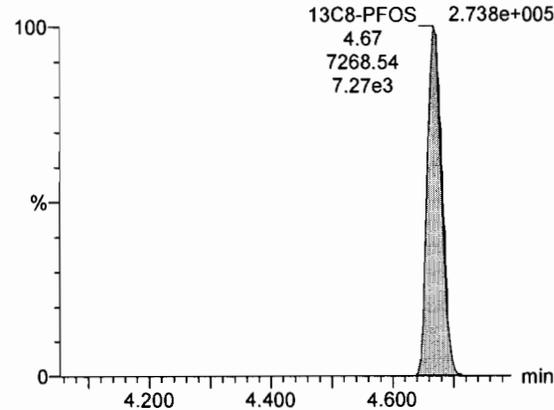
**13C5-PFNA**

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



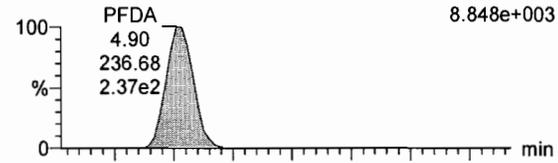
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

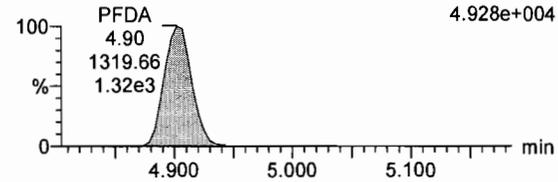
Name: 170928G1\_4, Date: 28-Sep-2017, Time: 09:02:05, ID: ST170928G1-3 PFC CS0 1712624, Description: PFC CS0 1712624

**PFDA**

170928G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
8.848e+003

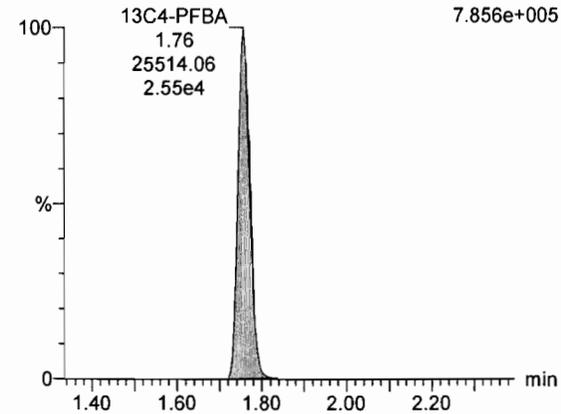


170928G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
4.928e+004



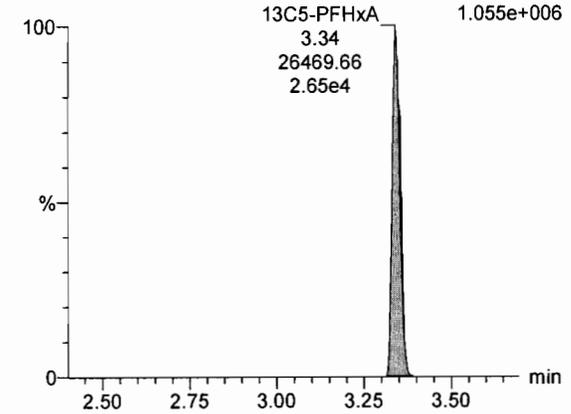
**13C4-PFBA**

170928G1\_4 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
7.856e+005



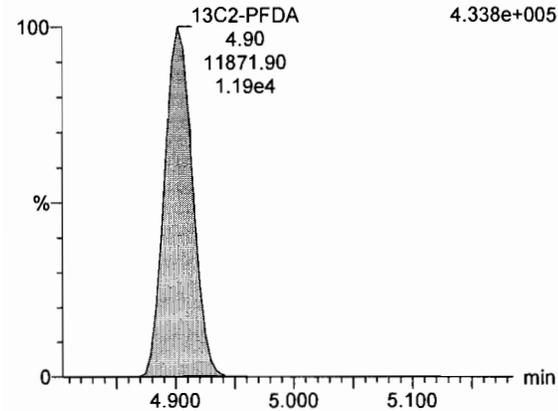
**13C5-PFHxA**

170928G1\_4 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
1.055e+006



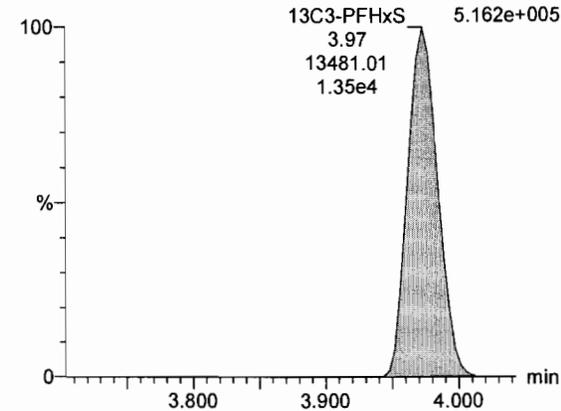
**13C2-PFDA**

170928G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
4.338e+005



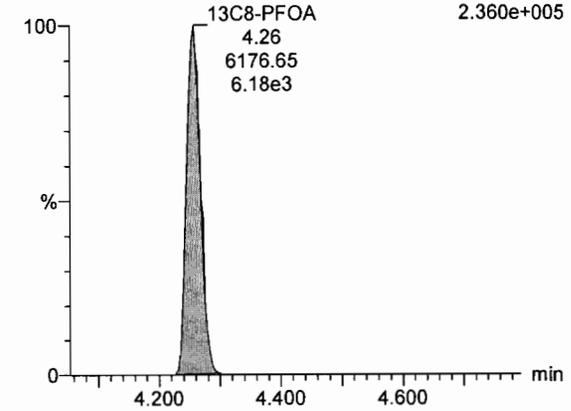
**13C3-PFHxS**

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

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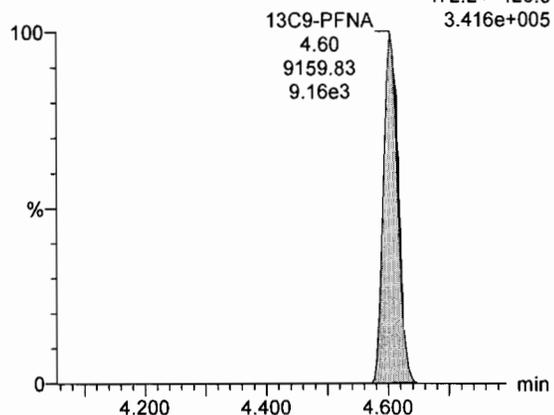
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**13C9-PFNA**

170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-

472.2 > 426.9

3.416e+005

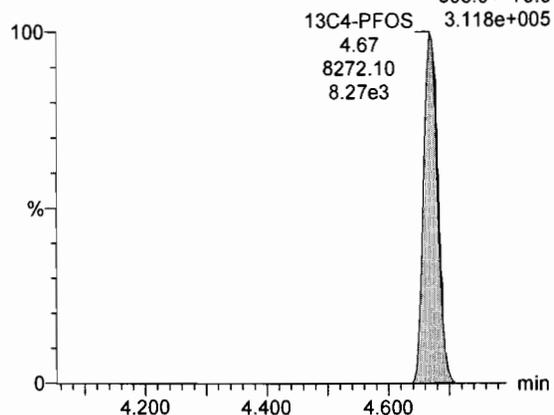


**13C4-PFOS**

170928G1\_4 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-

503.0 > 79.9

3.118e+005

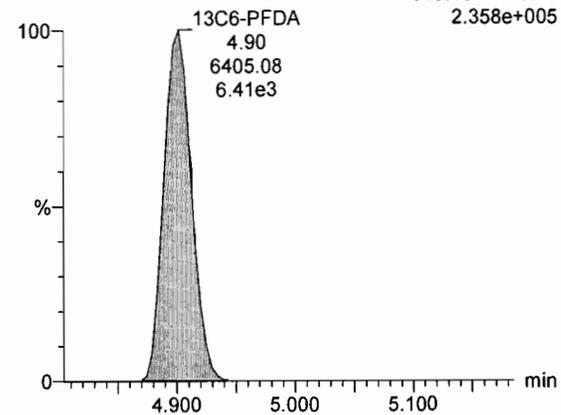


**13C6-PFDA**

170928G1\_4 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-

519.10 > 473.70

2.358e+005



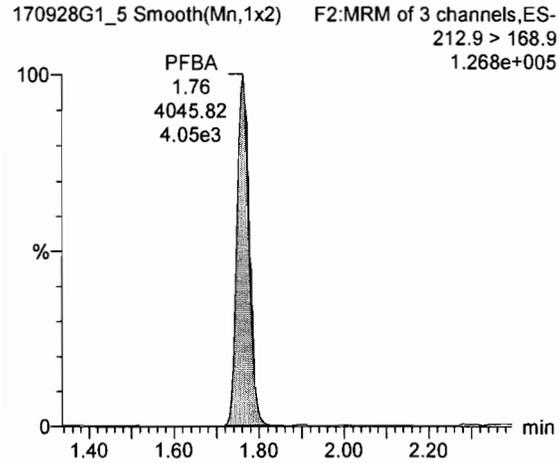


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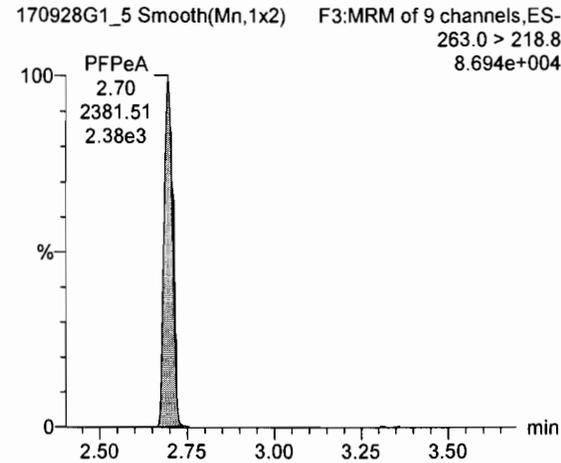
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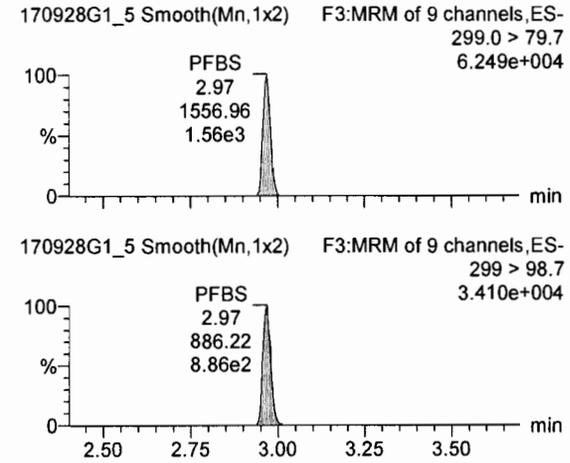
**PFBA**



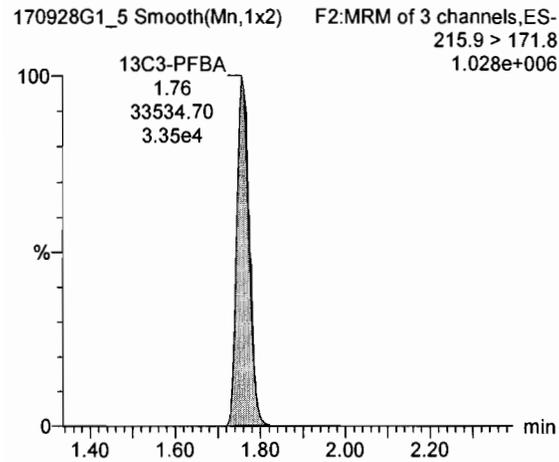
**PFPeA**



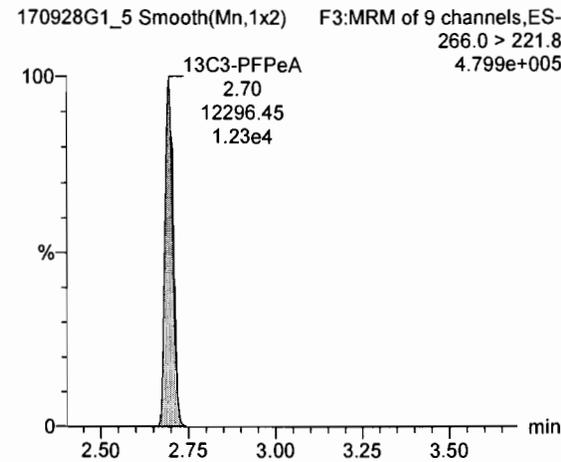
**PFBS**



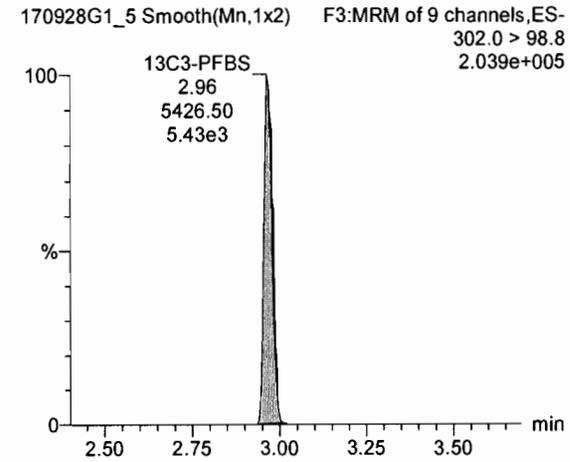
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

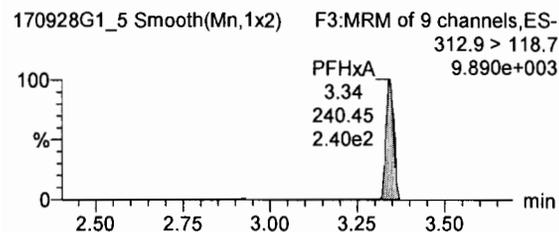
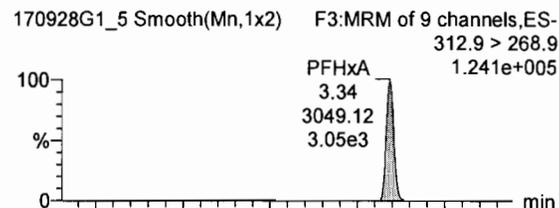


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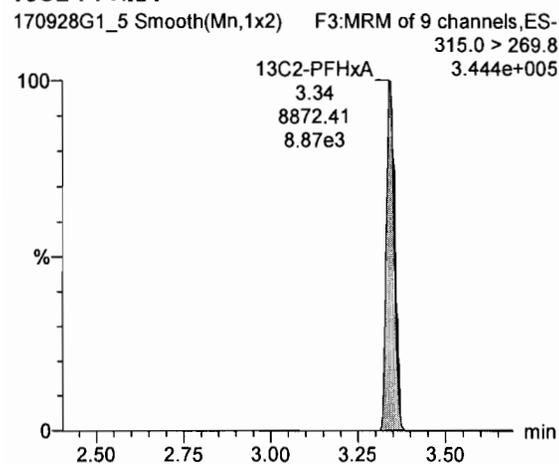
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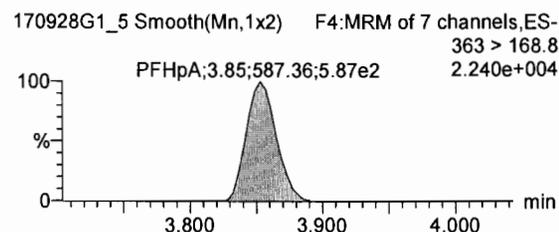
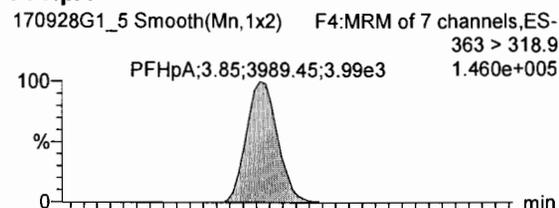
**PFHxA**



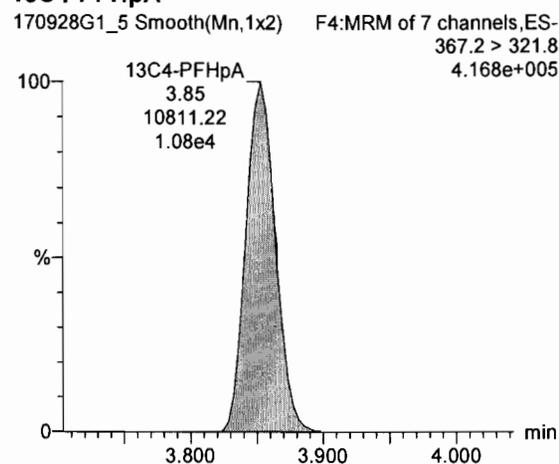
**13C2-PFHxA**



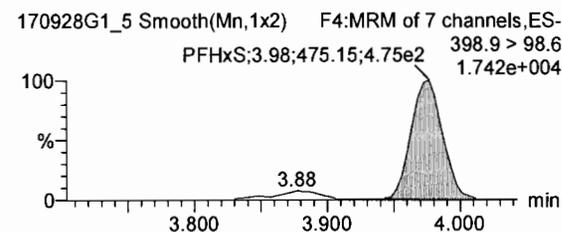
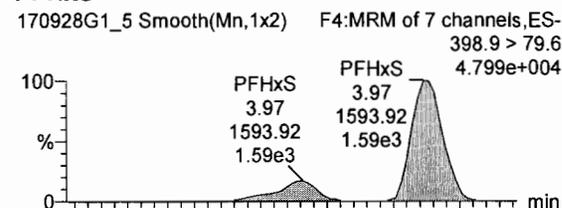
**PFHpA**



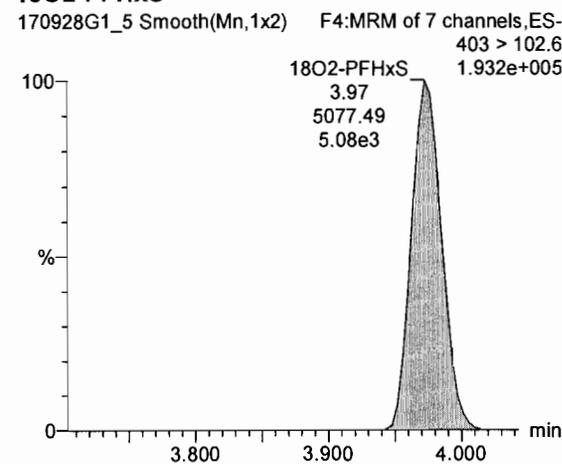
**13C4-PFHpA**



**PFHxS**



**18O2-PFHxS**



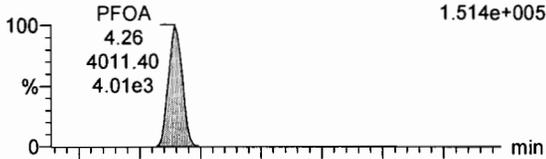
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

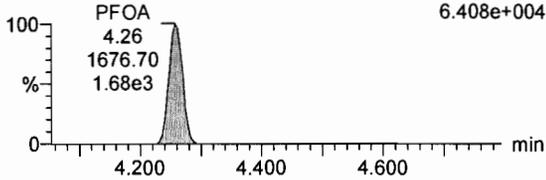
Name: 170928G1\_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

**PFOA**

170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7  
1.514e+005

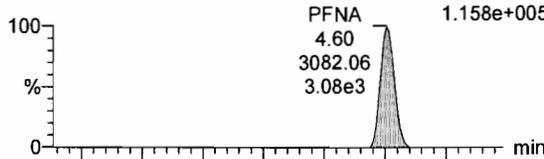


170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8  
6.408e+004

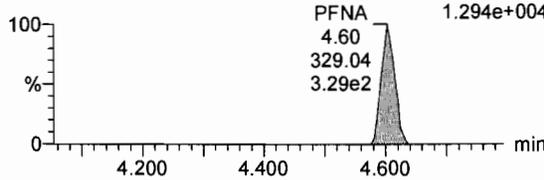


**PFNA**

170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8  
1.158e+005

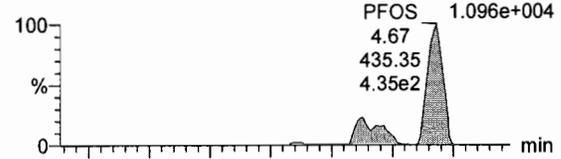


170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0  
1.294e+004

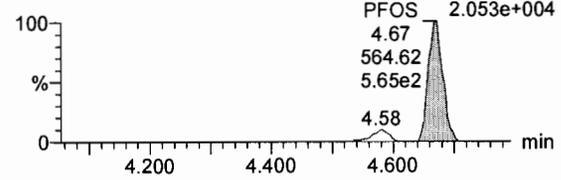


**PFOS**

170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9  
1.096e+004

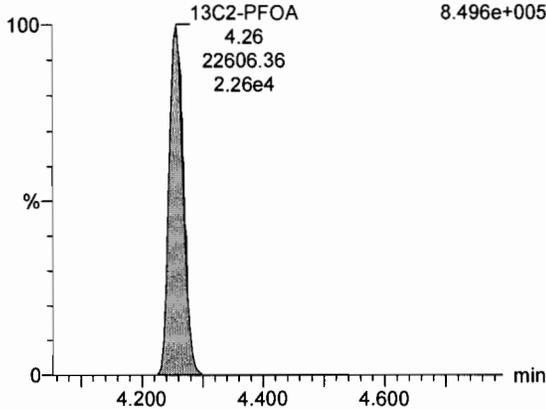


170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8  
2.053e+004



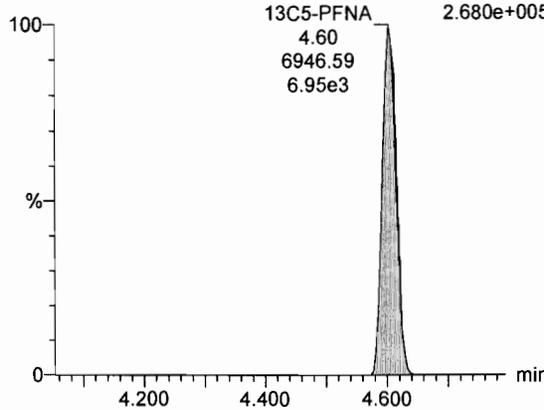
**13C2-PFOA**

170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7  
8.496e+005



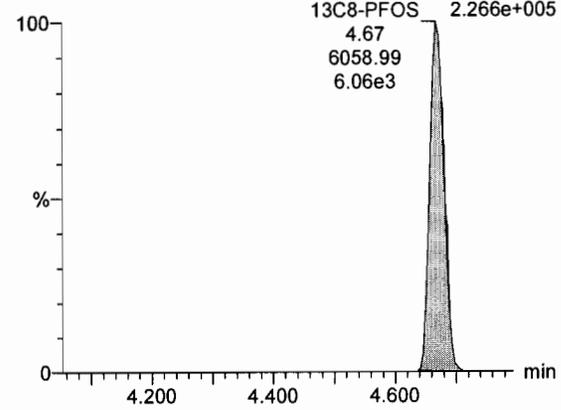
**13C5-PFNA**

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

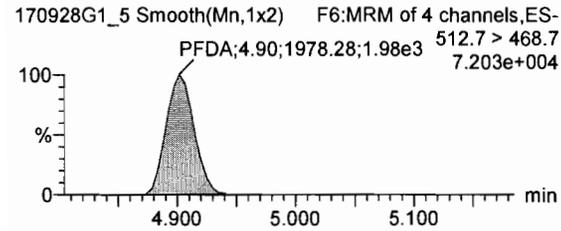
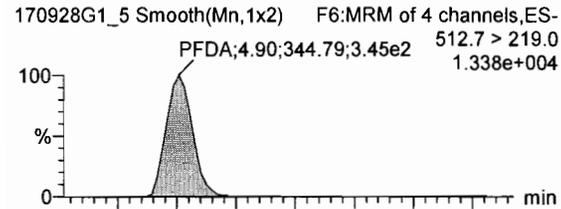


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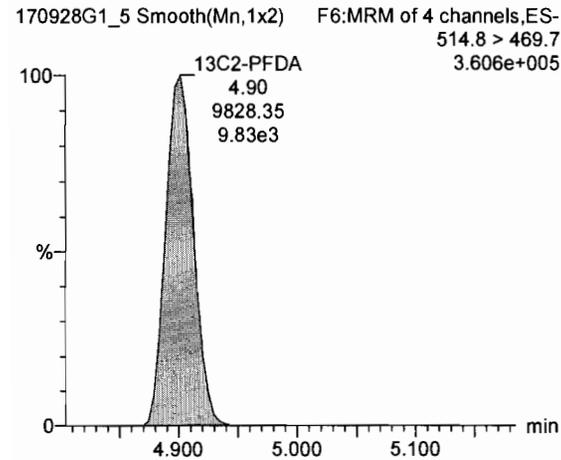
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

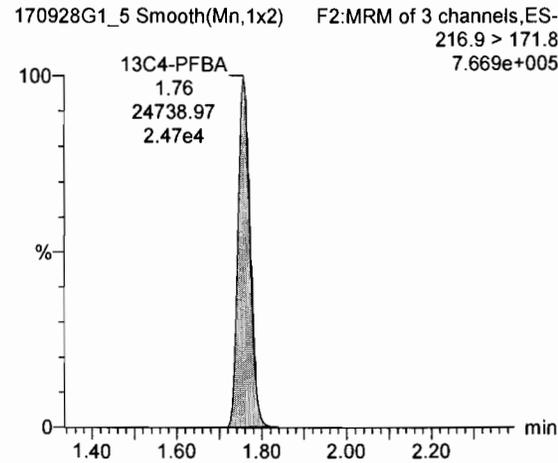
**PFDA**



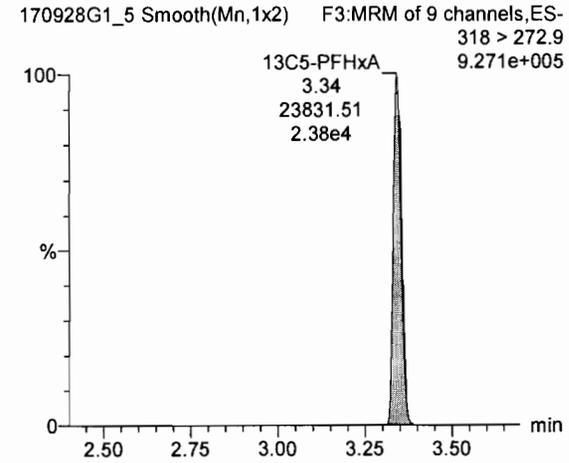
**13C2-PFDA**



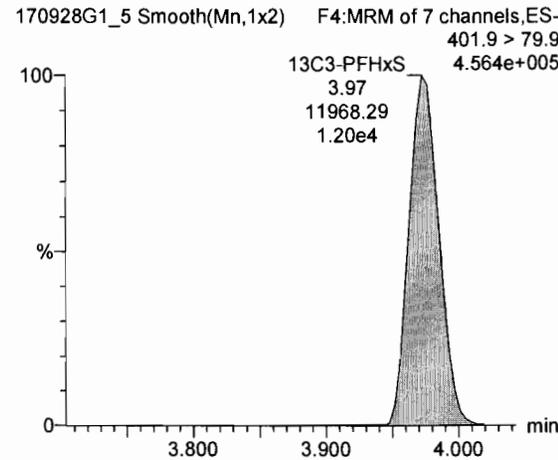
**13C4-PFBA**



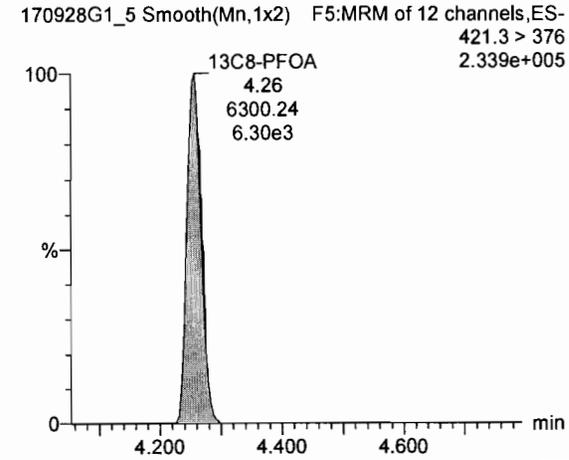
**13C5-PFHxA**



**13C3-PFHxS**



**13C8-PFOA**



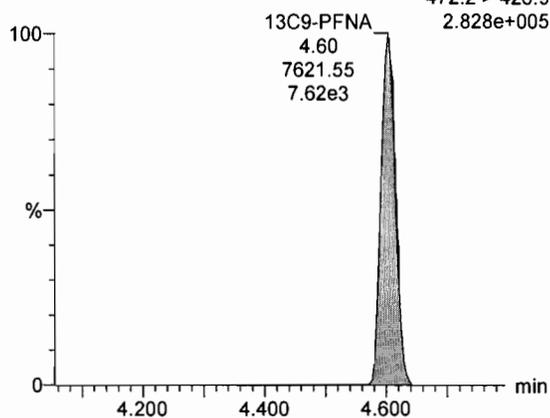
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Name: 170928G1\_5, Date: 28-Sep-2017, Time: 09:14:38, ID: ST170928G1-4 PFC CS1 1712625, Description: PFC CS1 1712625

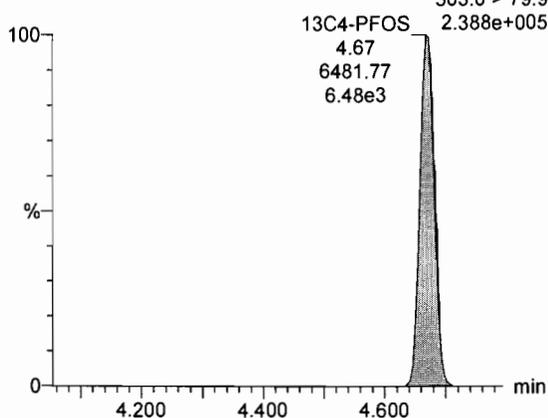
**13C9-PFNA**

170928G1\_5 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.828e+005



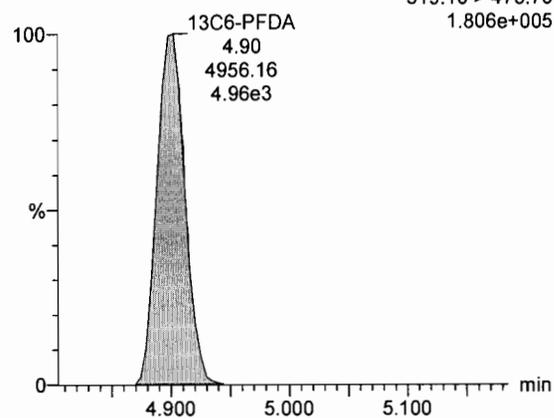
**13C4-PFOS**

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



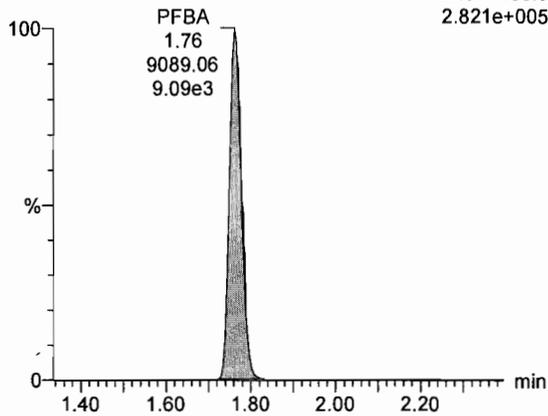
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Name: 170928G1\_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 17I2626, Description: PFC CS2 17I2626

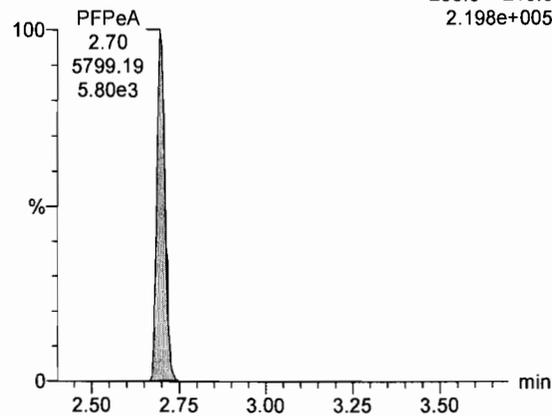
**PFBA**

170928G1\_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
2.821e+005



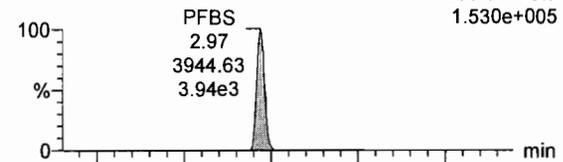
**PFPeA**

170928G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
2.198e+005

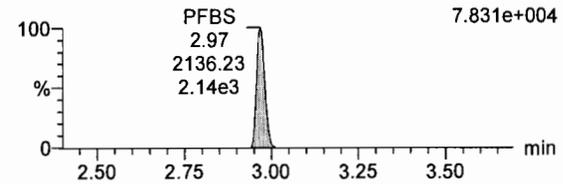


**PFBS**

170928G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.530e+005

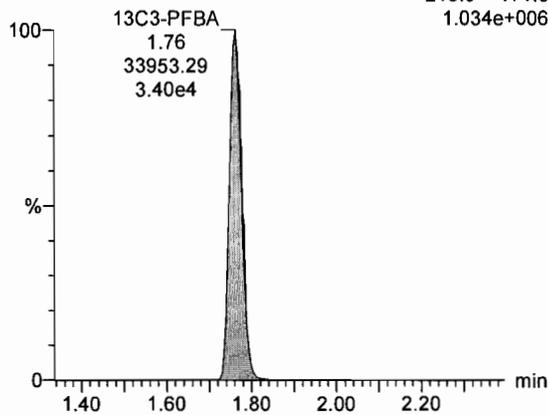


170928G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
7.831e+004



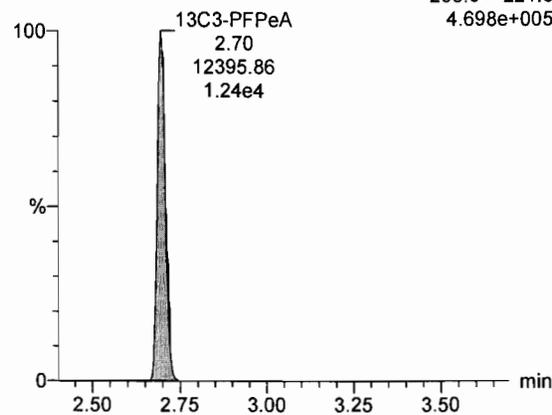
**13C3-PFBA**

170928G1\_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
1.034e+006



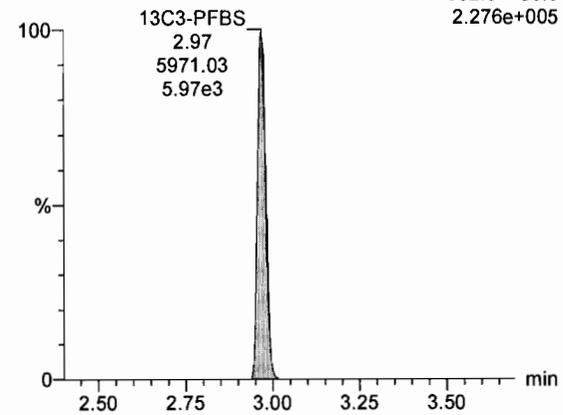
**13C3-PFPeA**

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

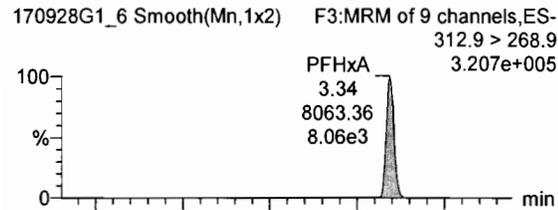


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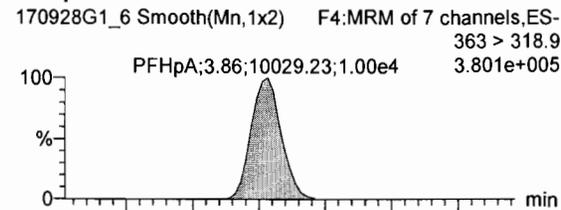
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Name: 170928G1\_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 17I2626, Description: PFC CS2 17I2626

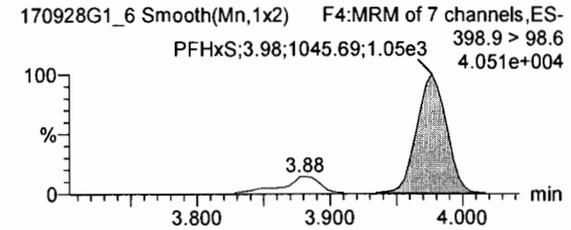
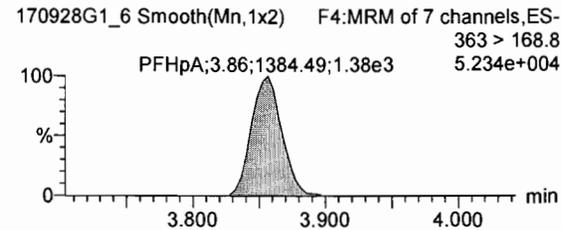
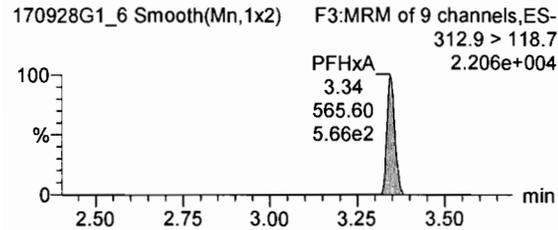
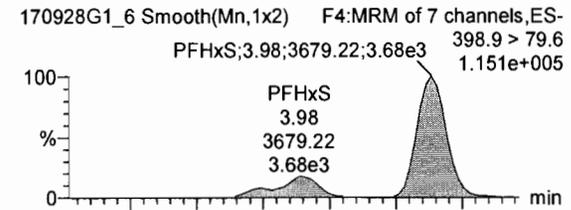
**PFHxA**



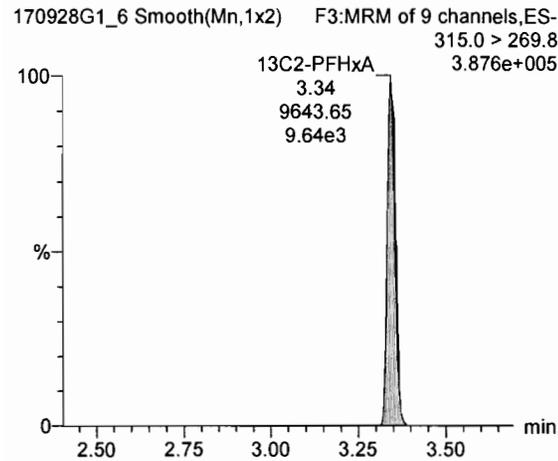
**PFHpA**



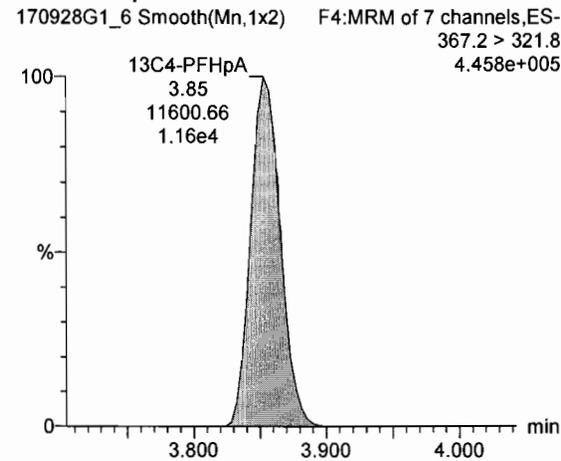
**PFHxS**



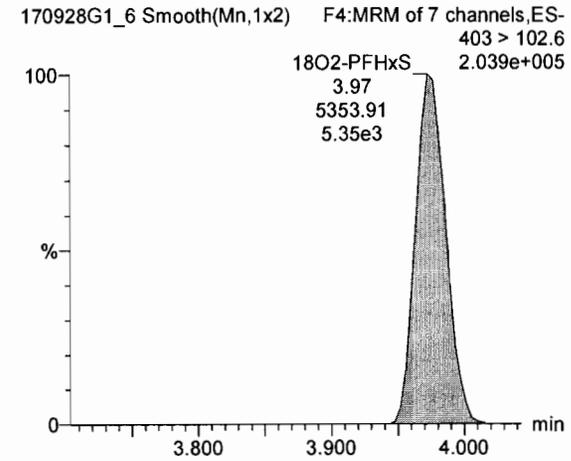
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



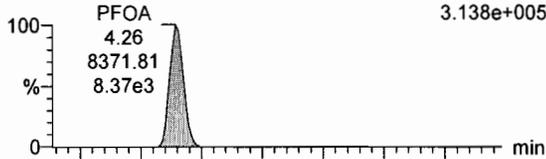
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 1712626, Description: PFC CS2 1712626

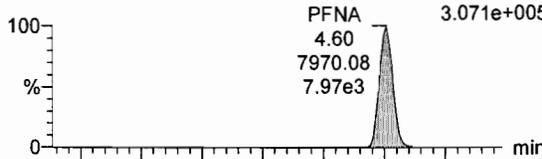
**PFOA**

170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 368.7  
3.138e+005



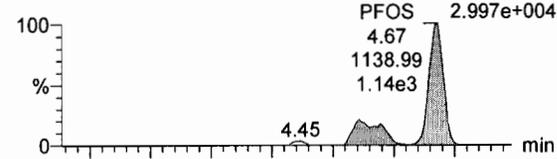
**PFNA**

170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 418.8  
3.071e+005

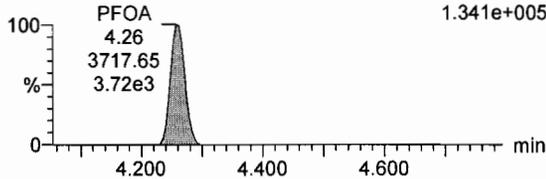


**PFOS**

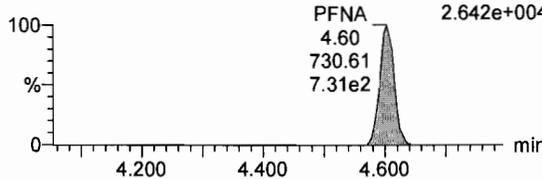
170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499.0 > 79.9  
2.997e+004



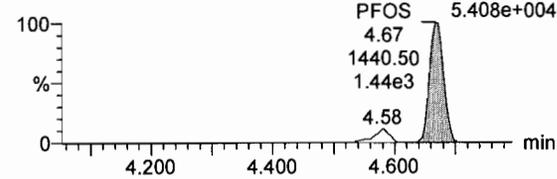
170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-413.0 > 168.8  
1.341e+005



170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-463.0 > 219.0  
2.642e+004

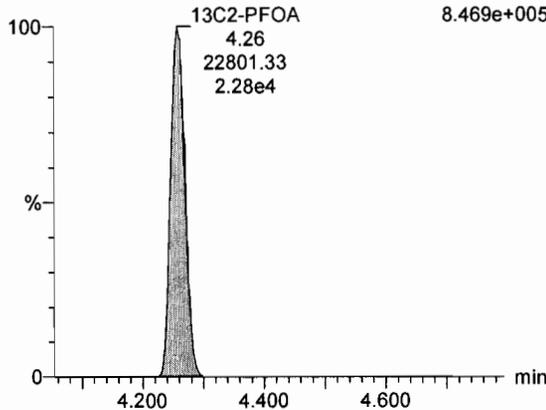


170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-499 > 98.8  
5.408e+004



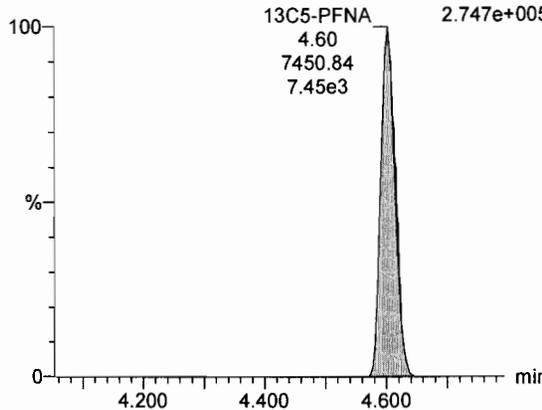
**13C2-PFOA**

170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-414.9 > 369.7  
8.469e+005



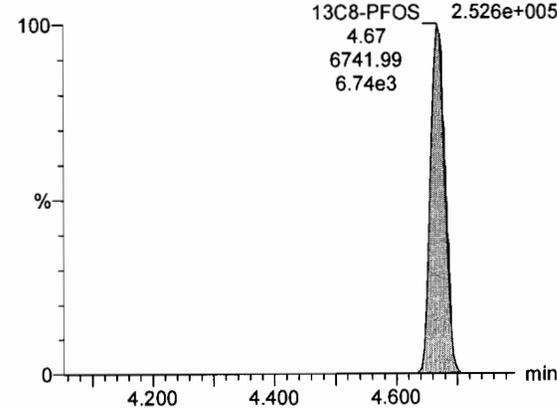
**13C5-PFNA**

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





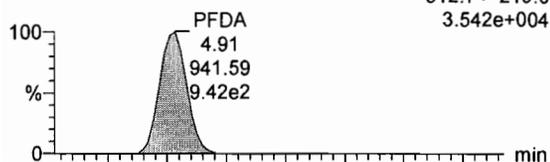
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

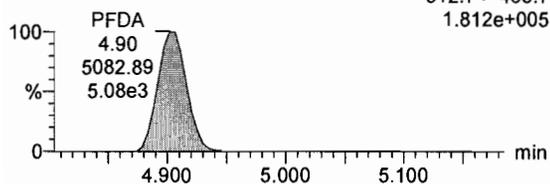
Name: 170928G1\_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 1712626, Description: PFC CS2 1712626

**PFDA**

170928G1\_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
3.542e+004

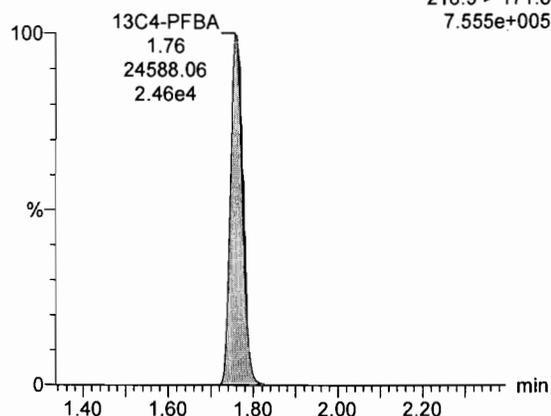


170928G1\_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
1.812e+005



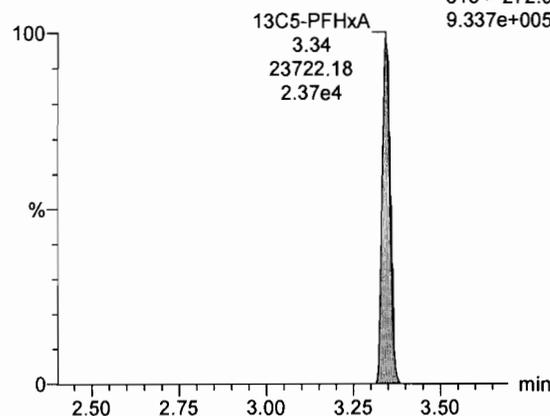
**13C4-PFBA**

170928G1\_6 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
7.555e+005



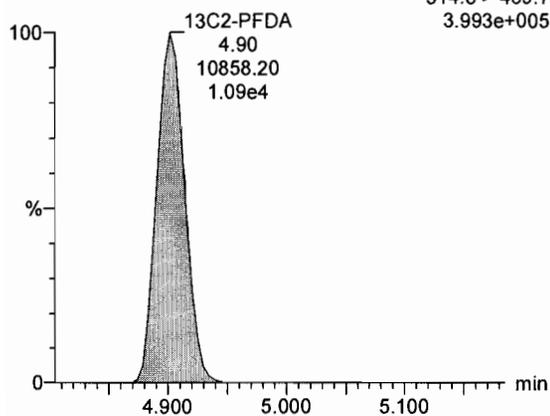
**13C5-PFHxA**

170928G1\_6 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
9.337e+005



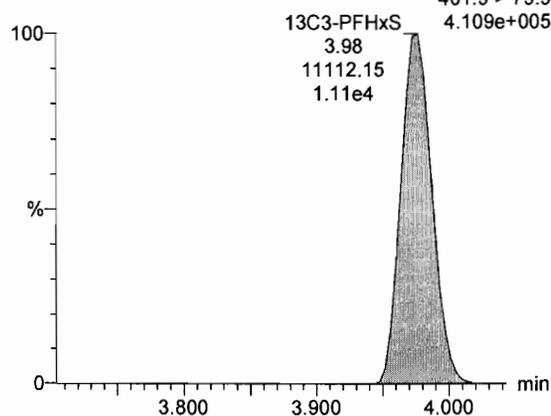
**13C2-PFDA**

170928G1\_6 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
3.993e+005



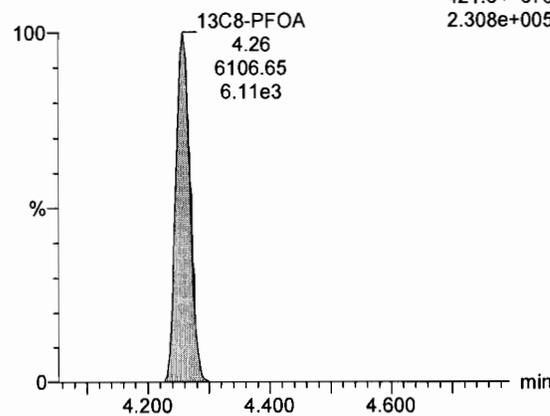
**13C3-PFHxS**

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



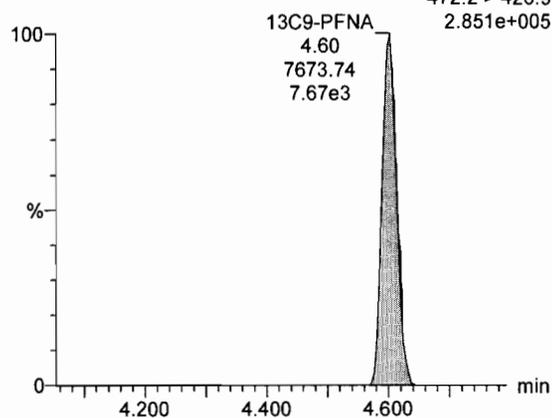
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_6, Date: 28-Sep-2017, Time: 09:27:12, ID: ST170928G1-5 PFC CS2 1712626, Description: PFC CS2 1712626

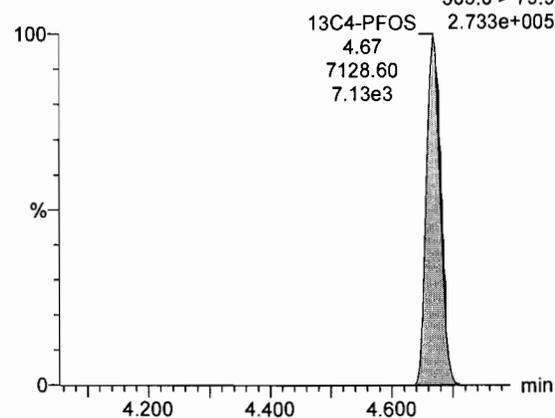
**13C9-PFNA**

170928G1\_6 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.851e+005



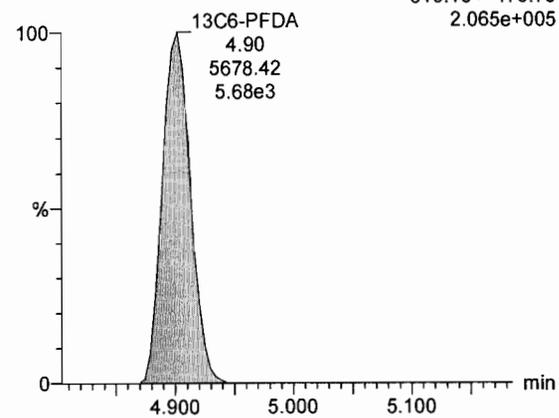
**13C4-PFOS**

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

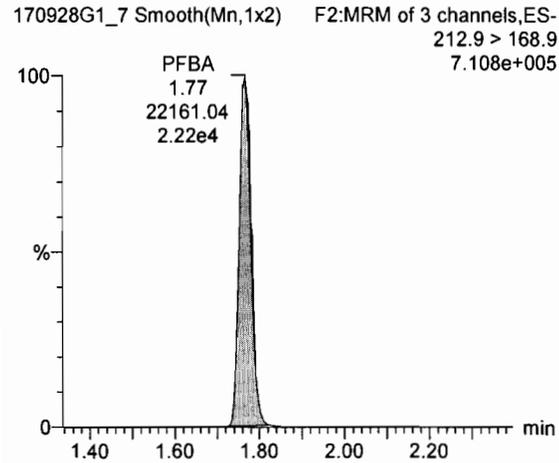


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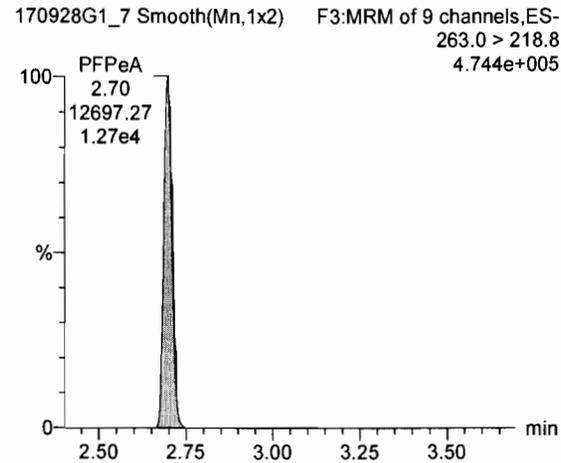
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627

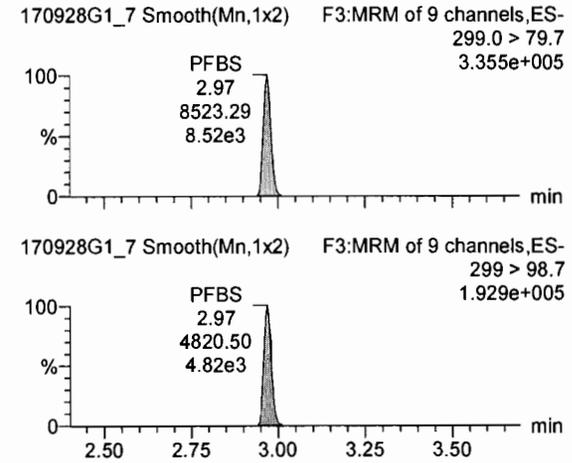
**PFBA**



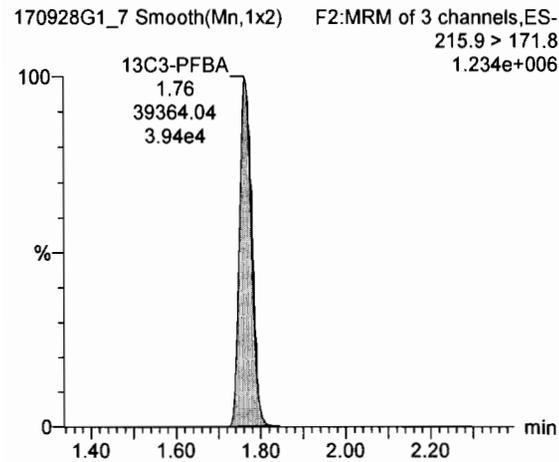
**PFPeA**



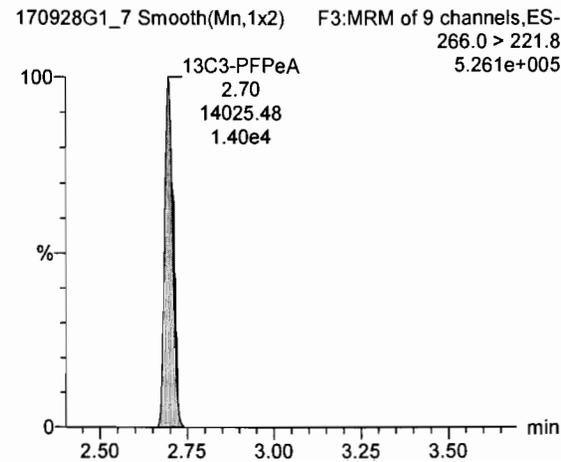
**PFBS**



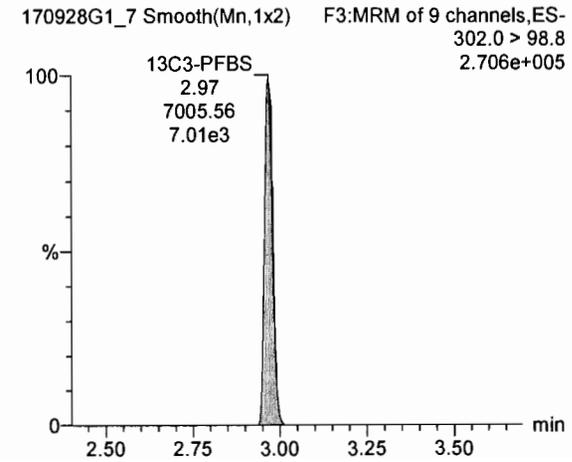
**13C3-PFBA**



**13C3-PFPeA**



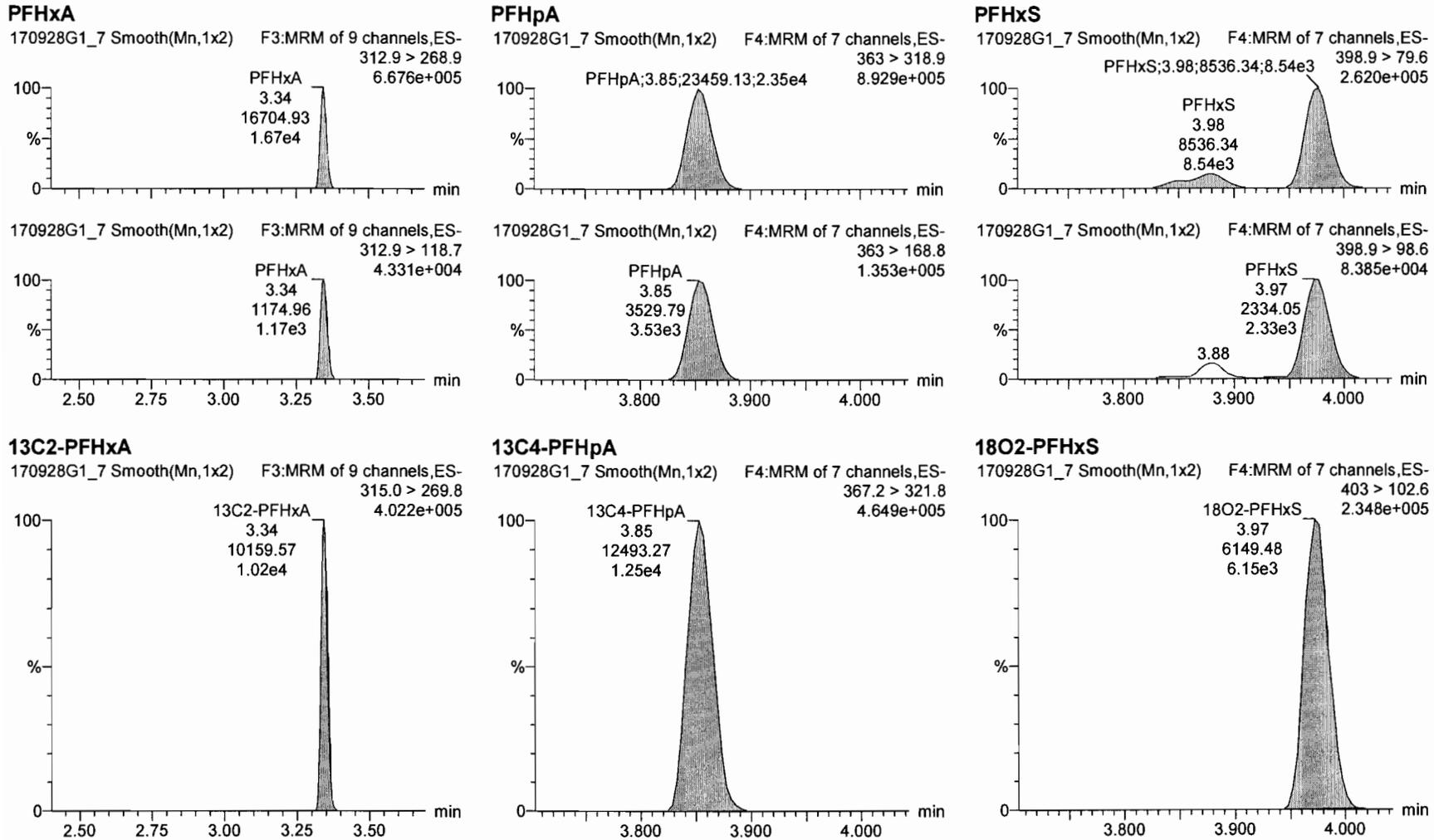
**13C3-PFBS**



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

Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
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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



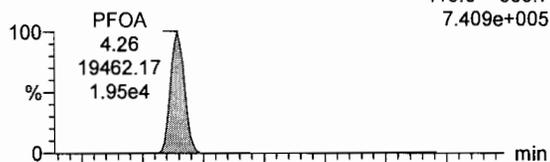
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
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Name: 170928G1\_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627

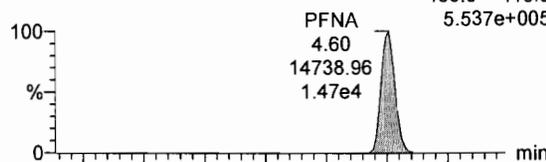
**PFOA**

170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
7.409e+005



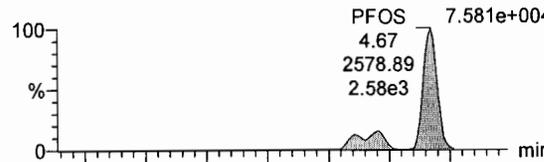
**PFNA**

170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
5.537e+005

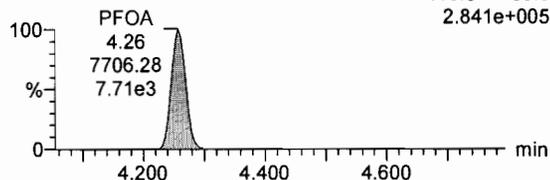


**PFOS**

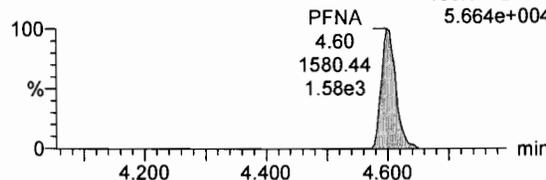
170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
7.581e+004



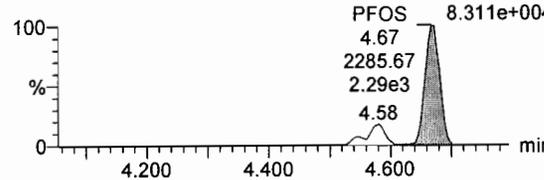
170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
2.841e+005



170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
5.664e+004

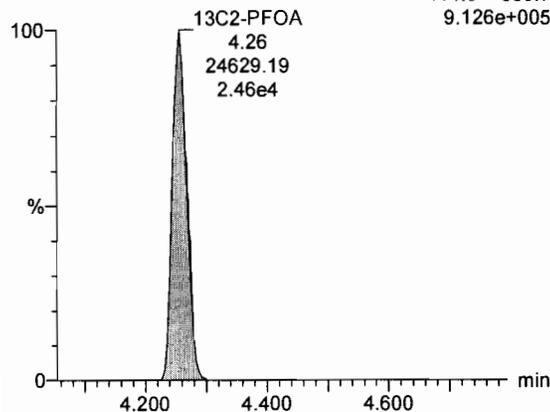


170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
8.311e+004



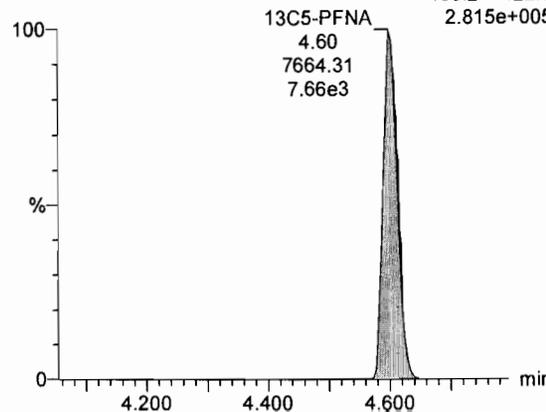
**13C2-PFOA**

170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
9.126e+005



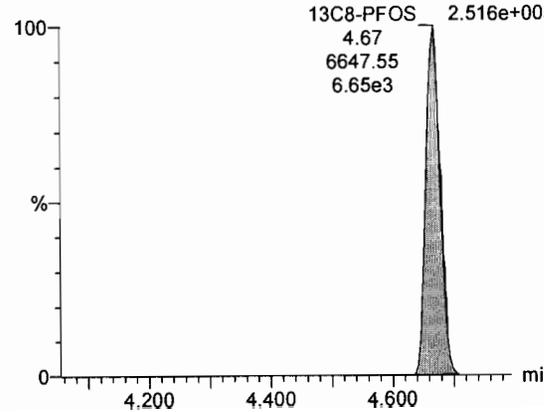
**13C5-PFNA**

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



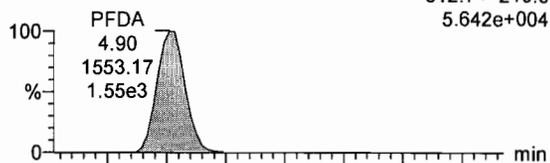
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

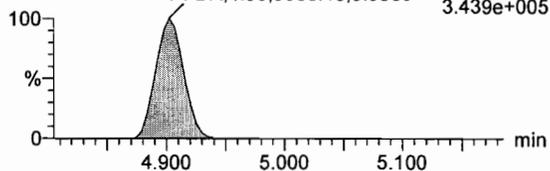
Name: 170928G1\_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627

**PFDA**

170928G1\_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
5.642e+004

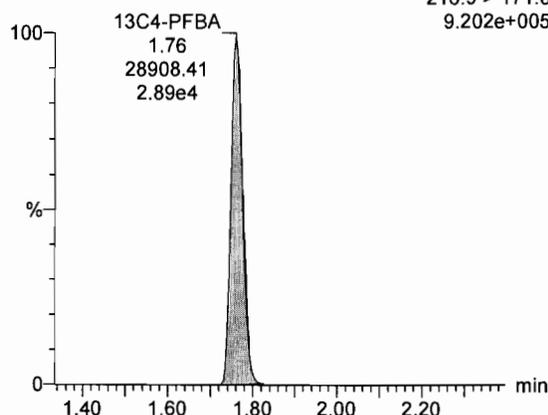


170928G1\_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
PFDA;4.90;9356.40;9.36e3 512.7 > 468.7  
3.439e+005



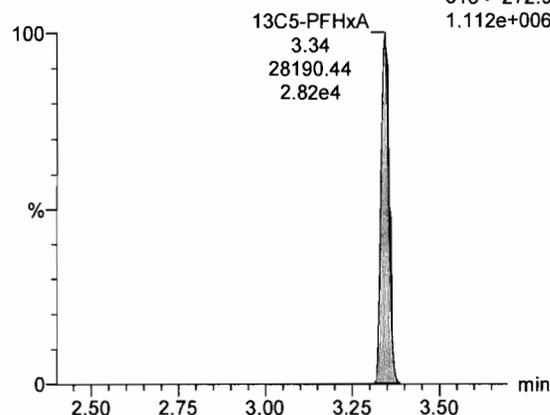
**13C4-PFBA**

170928G1\_7 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
9.202e+005



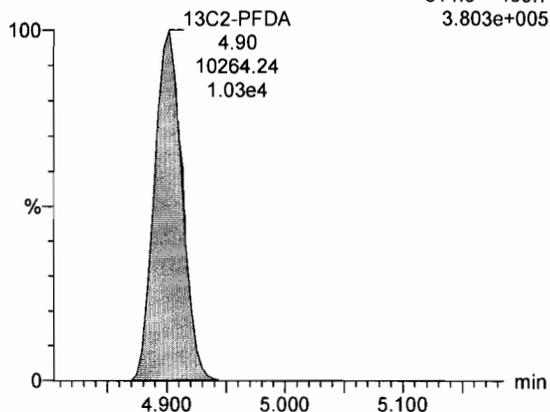
**13C5-PFHxA**

170928G1\_7 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
1.112e+006



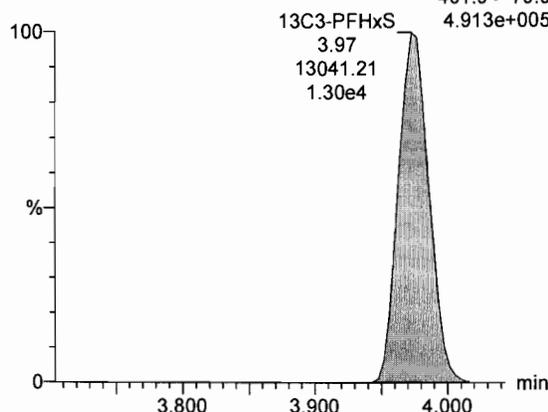
**13C2-PFDA**

170928G1\_7 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
3.803e+005



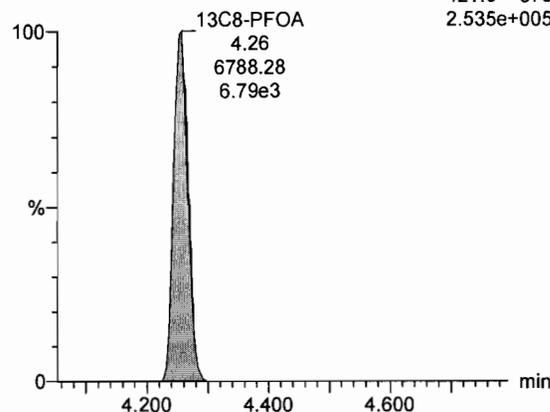
**13C3-PFHxS**

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



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

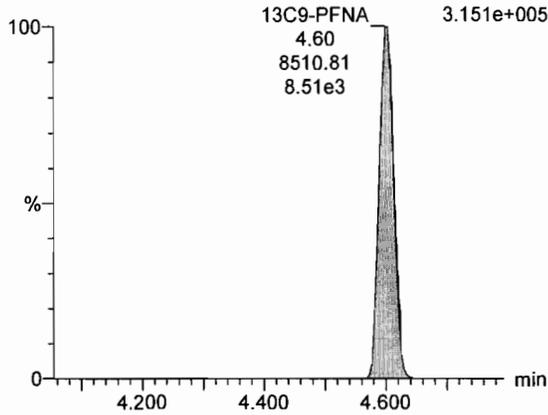
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_7, Date: 28-Sep-2017, Time: 09:39:45, ID: ST170928G1-6 PFC CS3 1712627, Description: PFC CS3 1712627

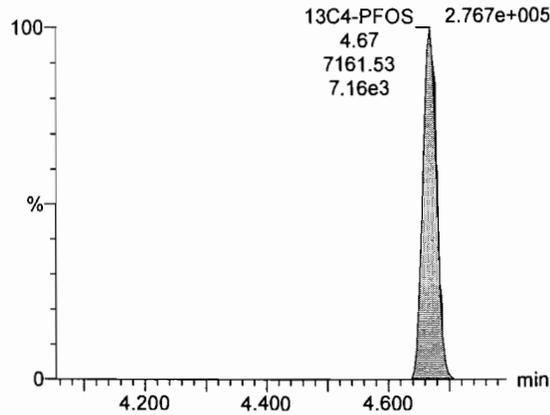
**13C9-PFNA**

170928G1\_7 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
3.151e+005



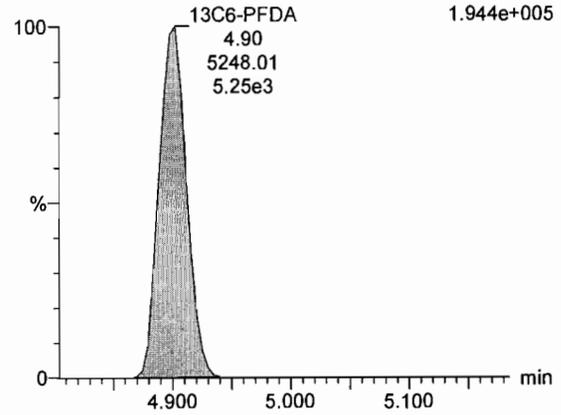
**13C4-PFOS**

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



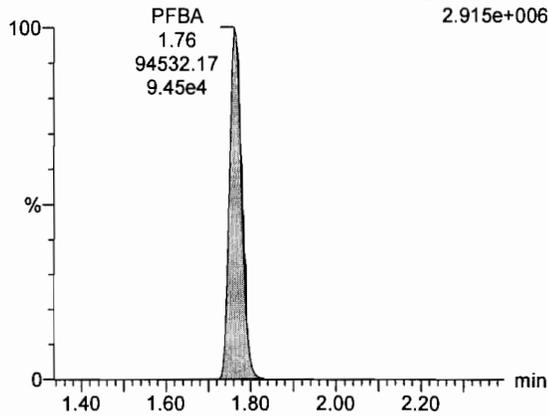
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Name: 170928G1\_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 1712628, Description: PFC CS4 1712628

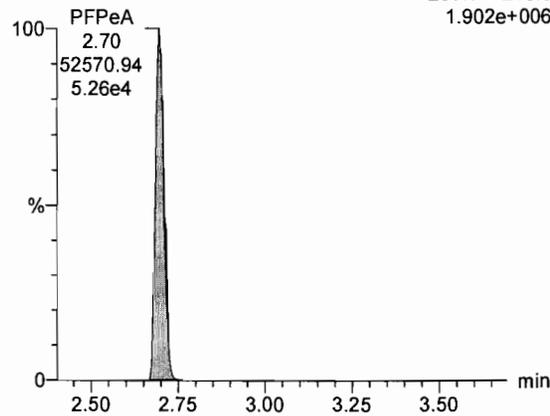
**PFBA**

170928G1\_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
2.915e+006



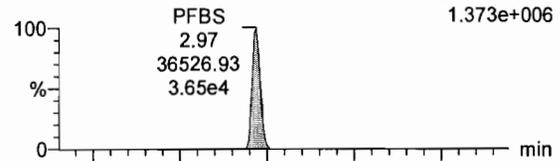
**PFPeA**

170928G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
1.902e+006

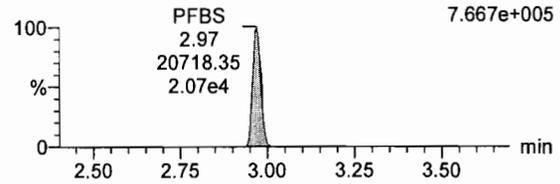


**PFBS**

170928G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
1.373e+006

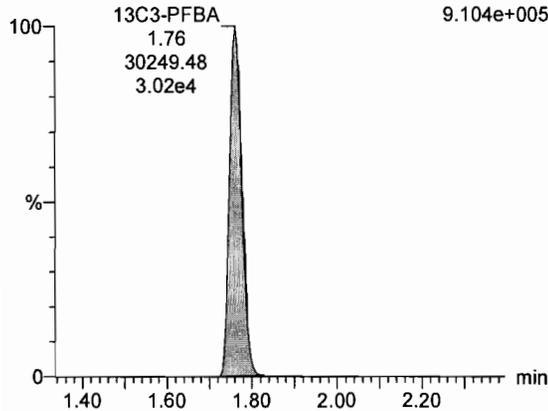


170928G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
7.667e+005



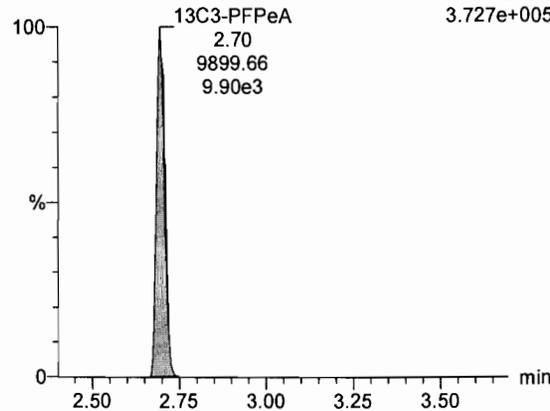
**13C3-PFBA**

170928G1\_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
9.104e+005



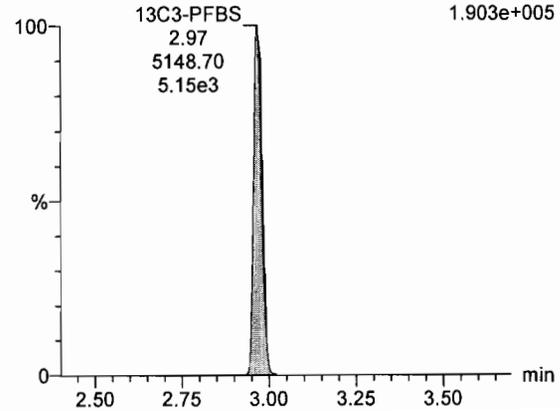
**13C3-PFPeA**

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



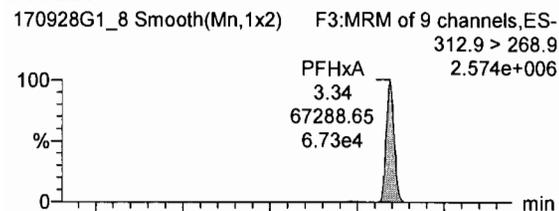


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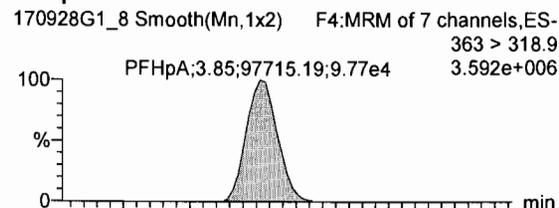
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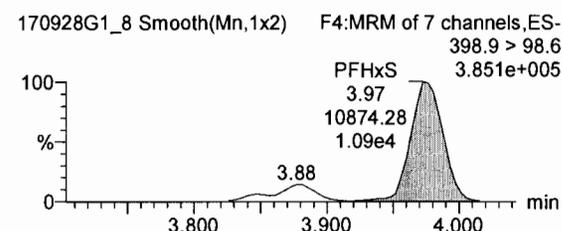
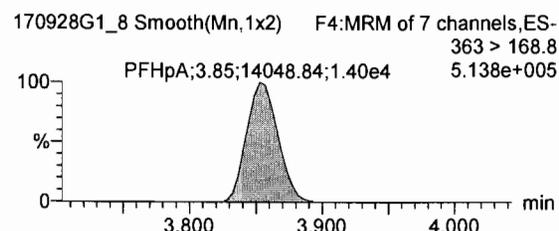
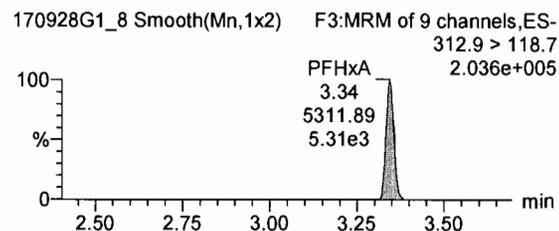
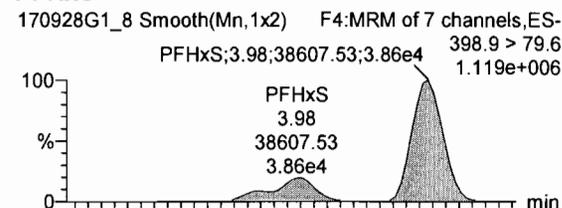
**PFHxA**



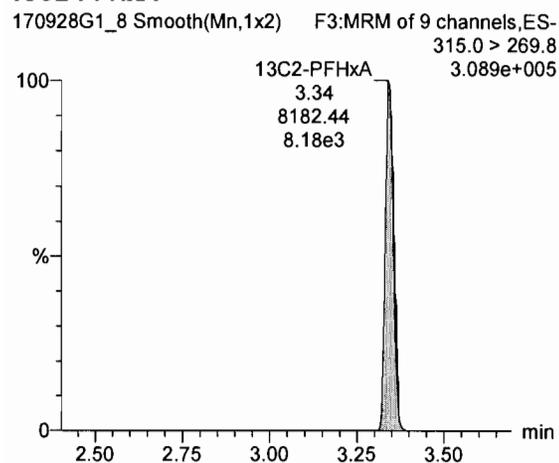
**PFHpA**



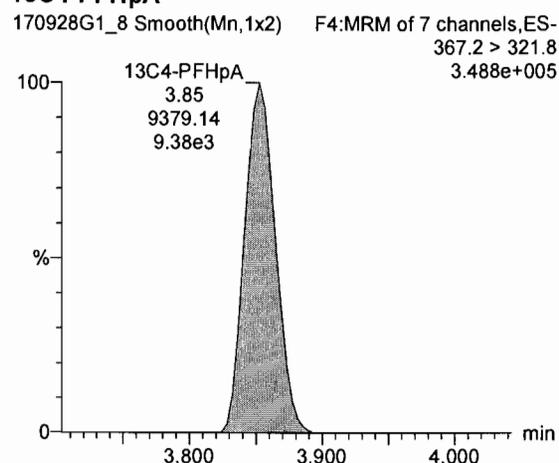
**PFHxS**



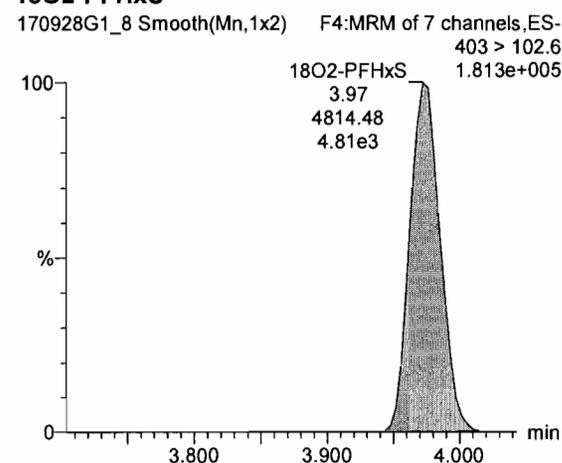
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



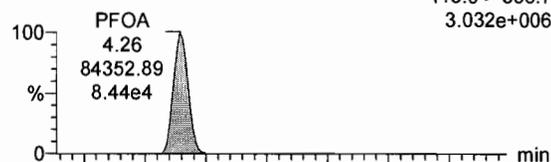
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

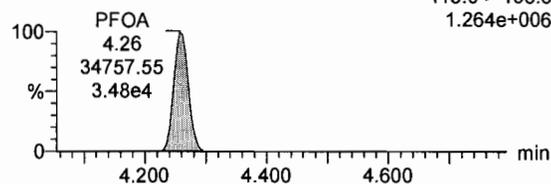
Name: 170928G1\_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 17I2628, Description: PFC CS4 17I2628

**PFOA**

170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
3.032e+006

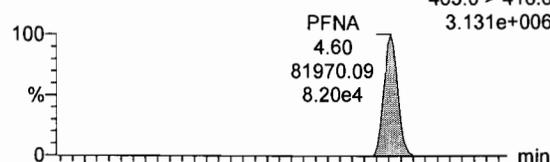


170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
1.264e+006

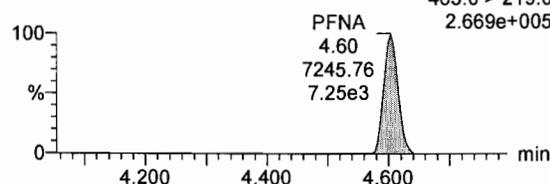


**PFNA**

170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
3.131e+006

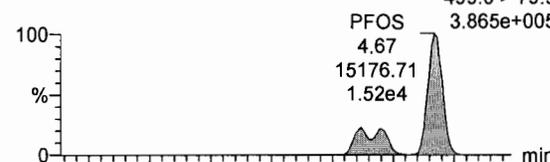


170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
2.669e+005

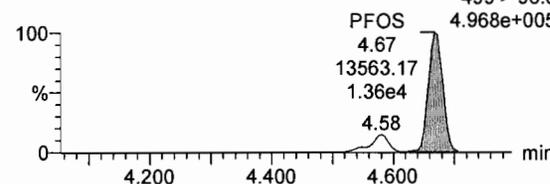


**PFOS**

170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
3.865e+005

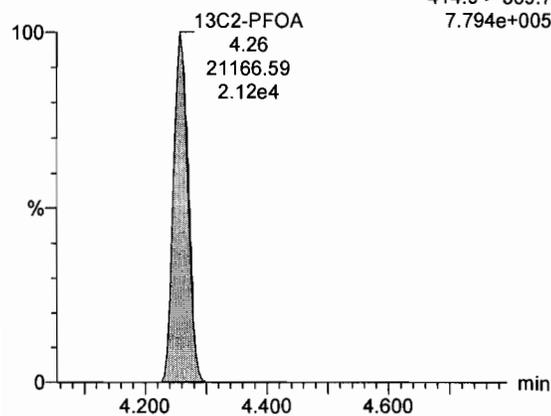


170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
4.968e+005



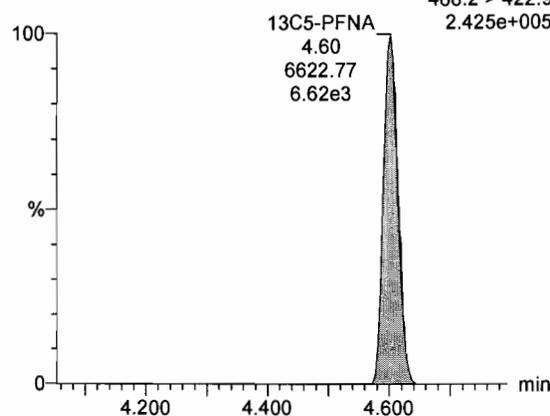
**13C2-PFOA**

170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
7.794e+005



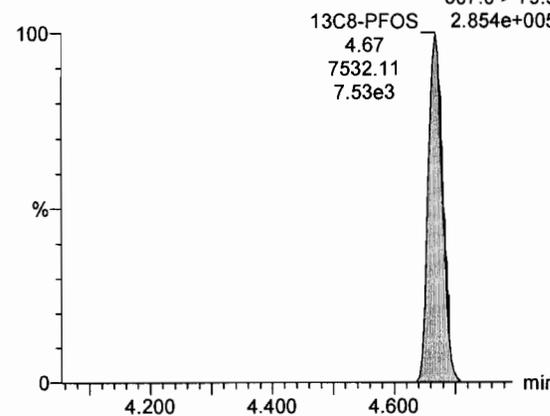
**13C5-PFNA**

170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.425e+005



**13C8-PFOS**

170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.854e+005



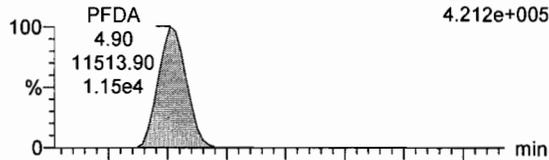
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

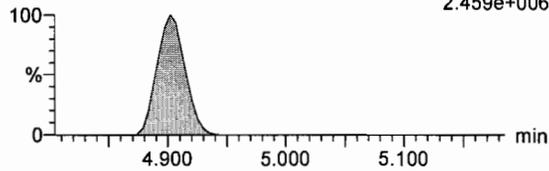
Name: 170928G1\_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 1712628, Description: PFC CS4 1712628

**PFDA**

170928G1\_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
4.212e+005

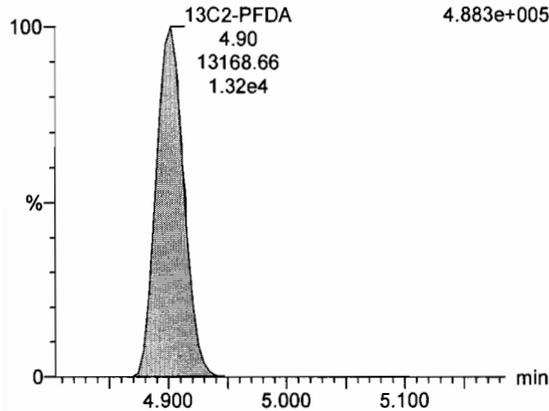


170928G1\_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
2.459e+006



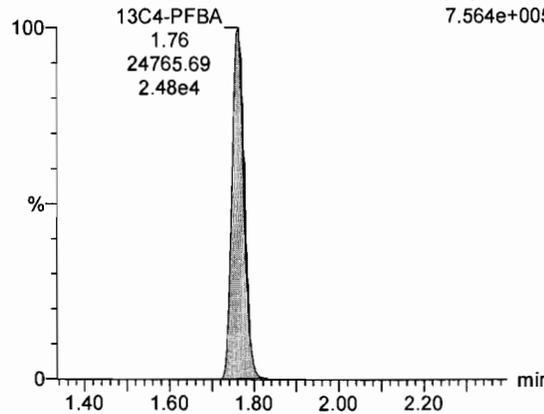
**13C2-PFDA**

170928G1\_8 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
4.883e+005



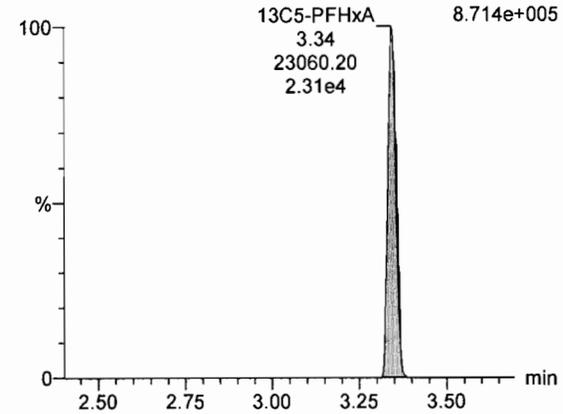
**13C4-PFBA**

170928G1\_8 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
7.564e+005



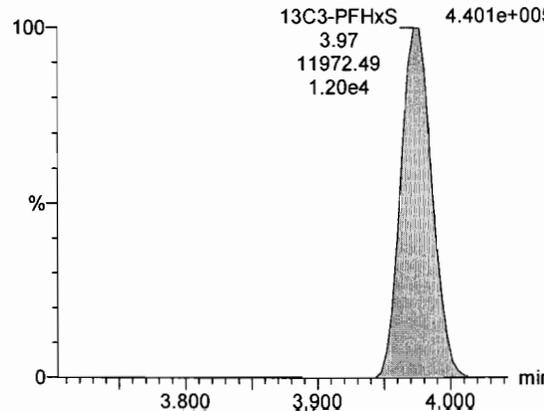
**13C5-PFHxA**

170928G1\_8 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
8.714e+005



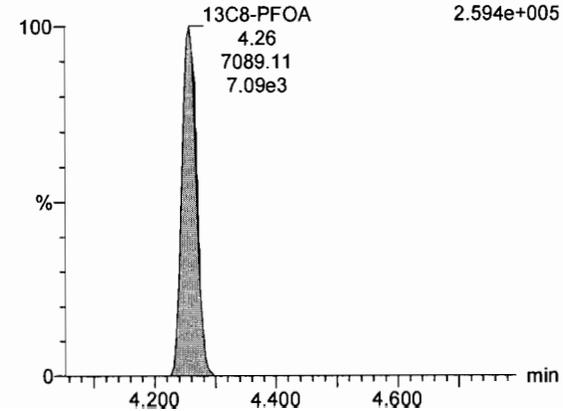
**13C3-PFHxS**

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



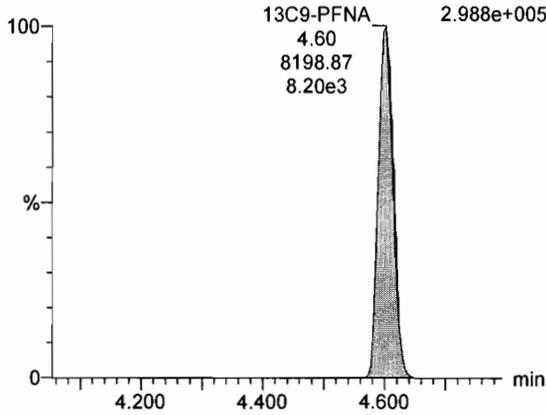
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_8, Date: 28-Sep-2017, Time: 09:52:18, ID: ST170928G1-7 PFC CS4 1712628, Description: PFC CS4 1712628

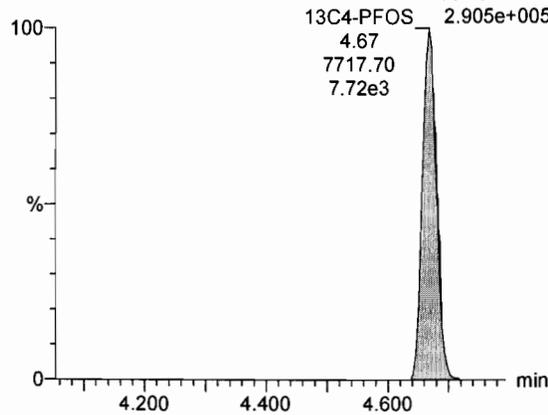
**13C9-PFNA**

170928G1\_8 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.988e+005



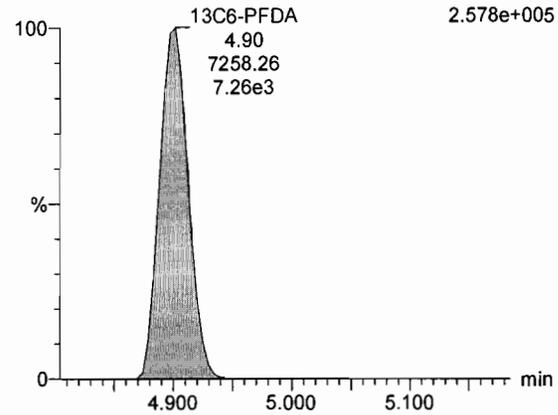
**13C4-PFOS**

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

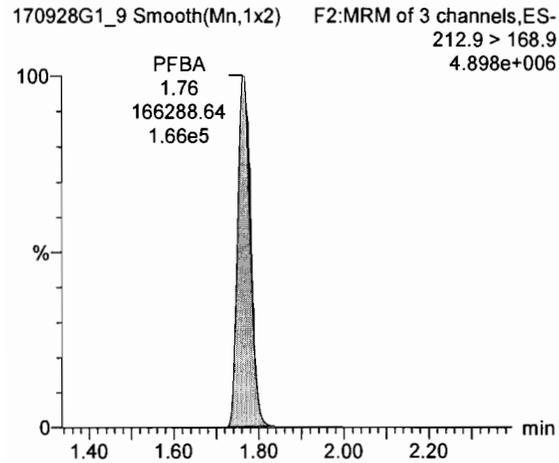


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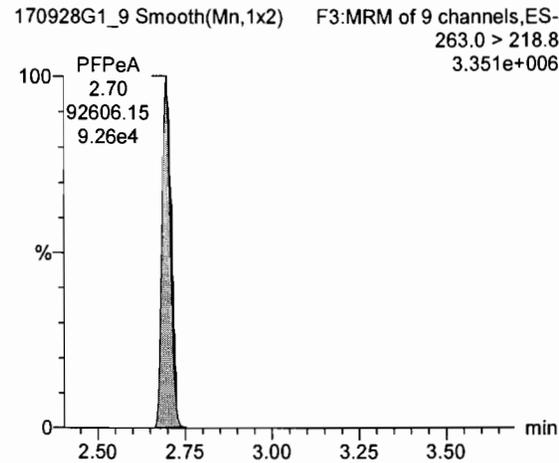
Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

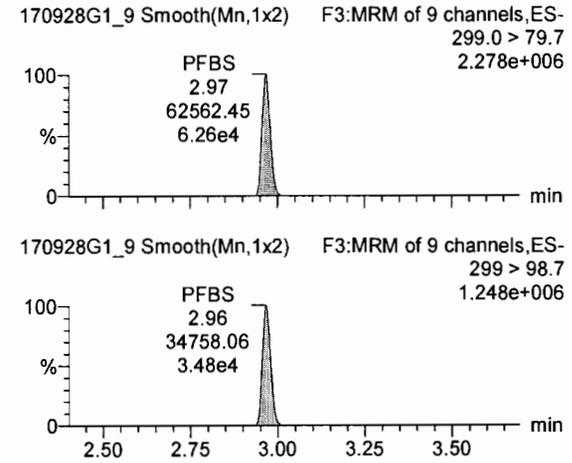
**PFBA**



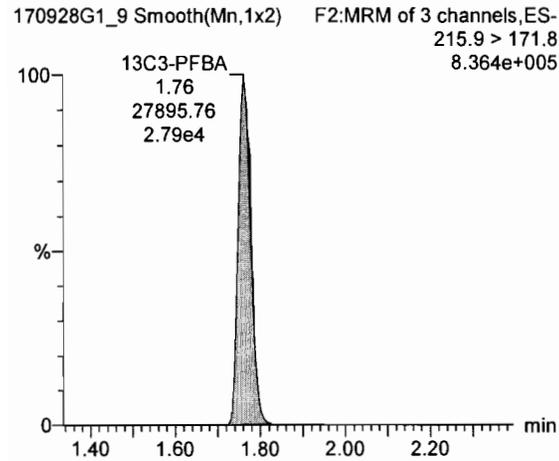
**PFPeA**



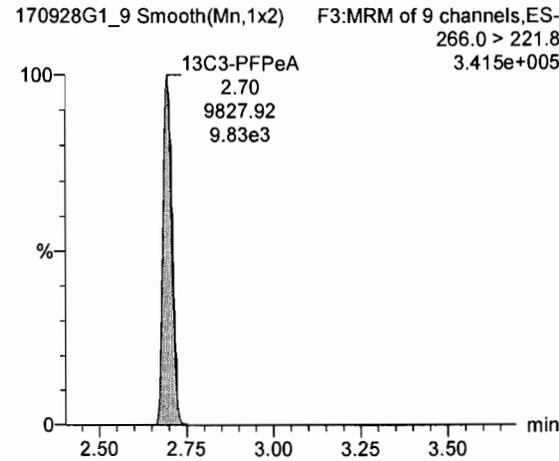
**PFBS**



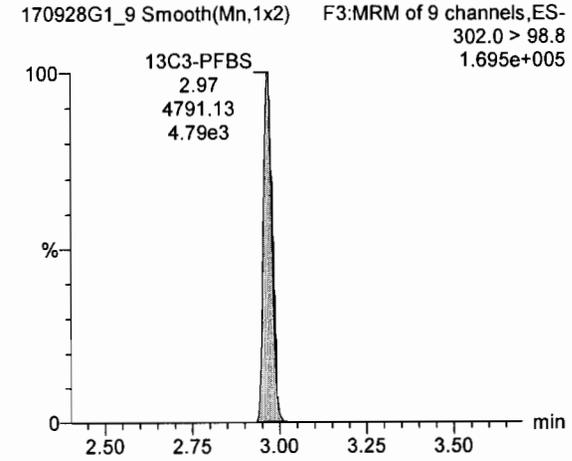
**13C3-PFBA**



**13C3-PFPeA**



**13C3-PFBS**

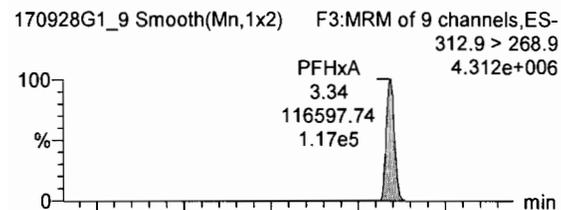


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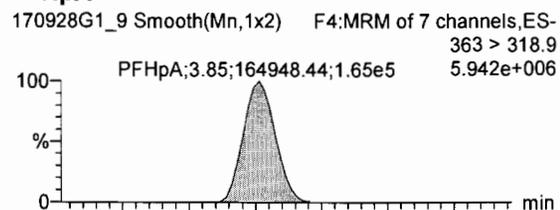
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Name: 170928G1\_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

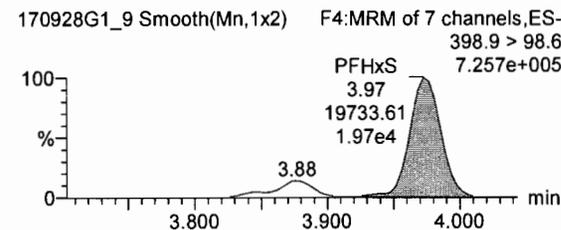
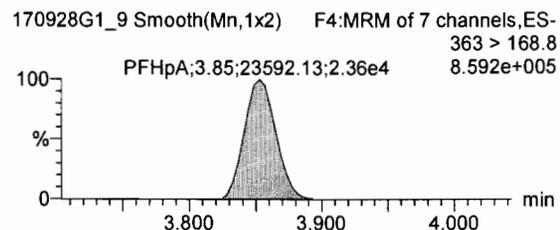
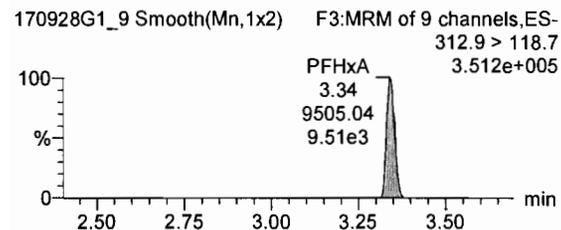
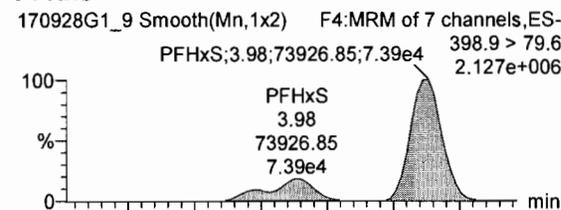
**PFHxA**



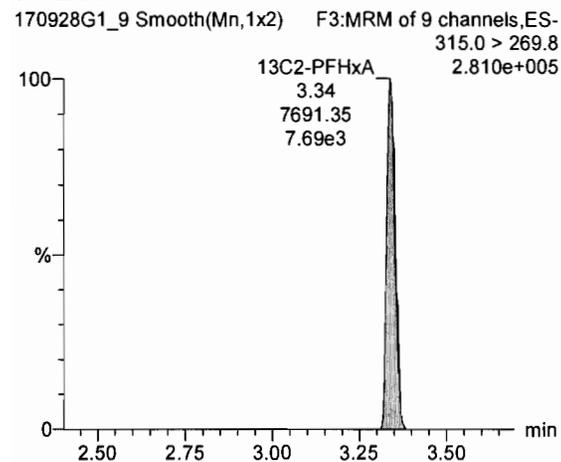
**PFHpA**



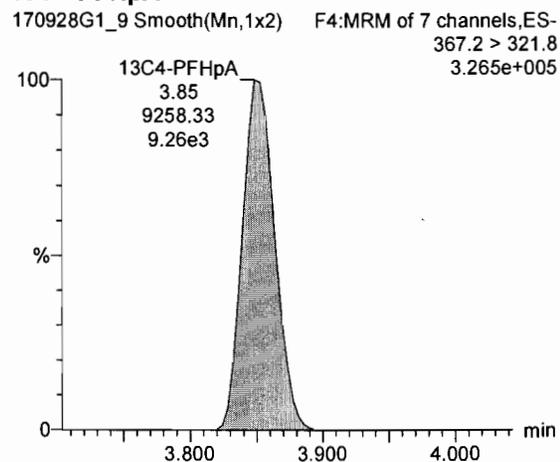
**PFHxS**



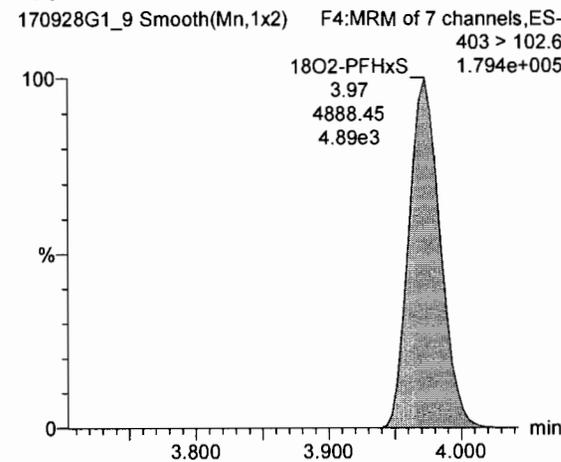
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

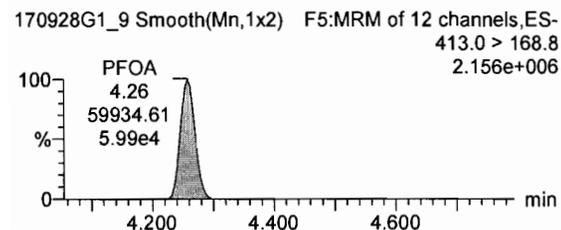
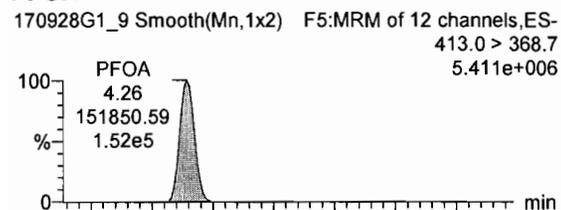


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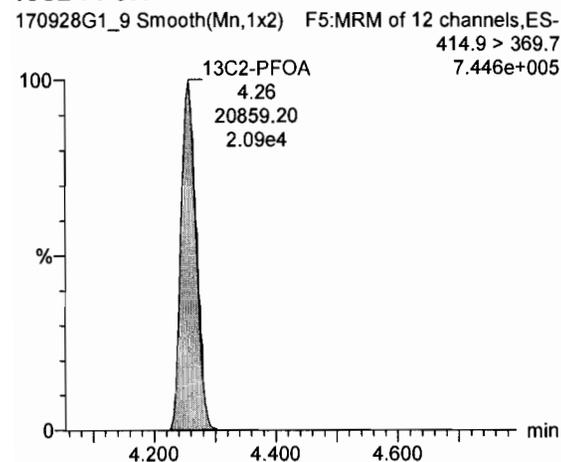
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Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

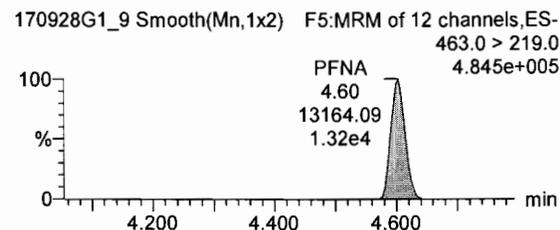
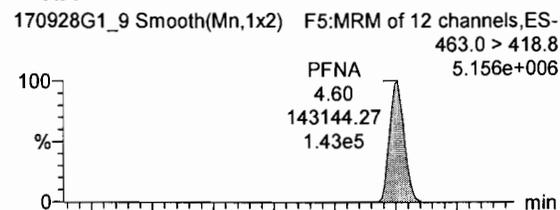
**PFOA**



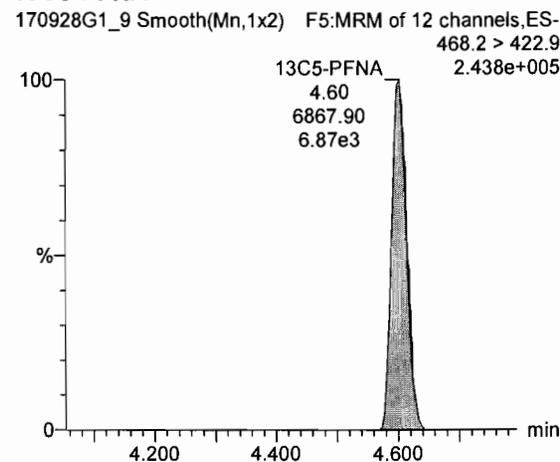
**13C2-PFOA**



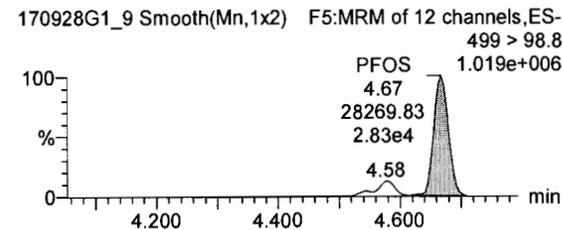
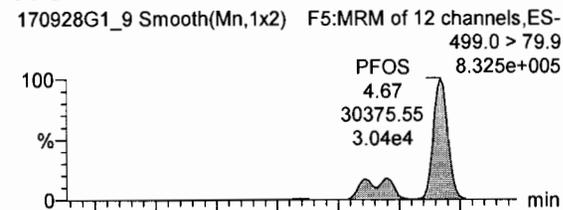
**PFNA**



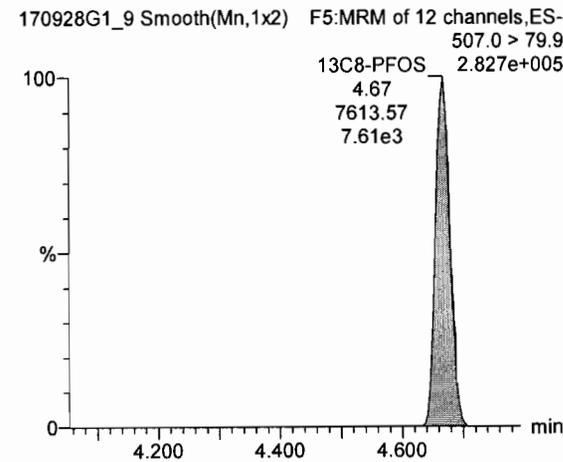
**13C5-PFNA**



**PFOS**



**13C8-PFOS**



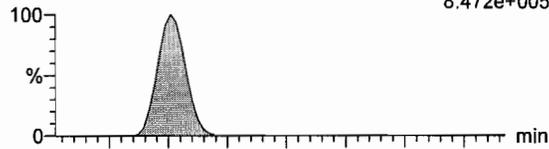
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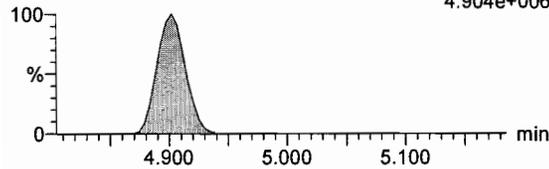
Name: 170928G1\_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

**PFDA**

170928G1\_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
8.472e+005

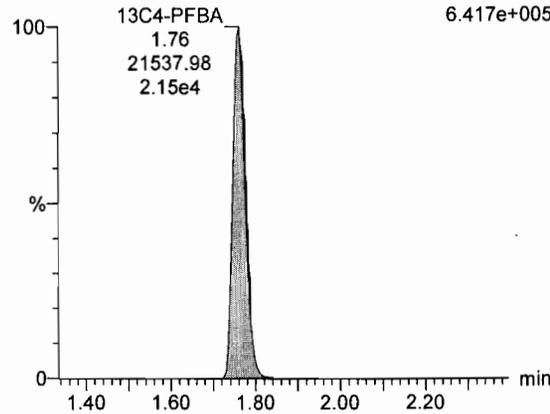


170928G1\_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
4.904e+006



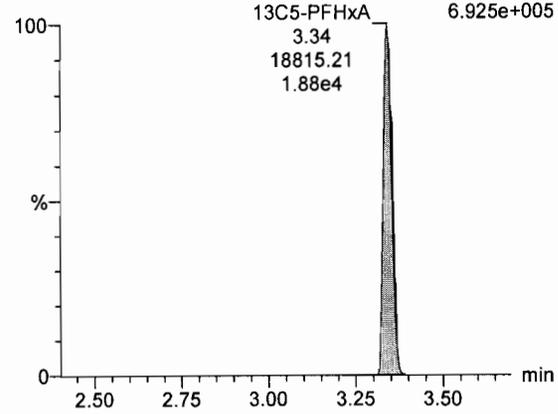
**13C4-PFBA**

170928G1\_9 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
6.417e+005



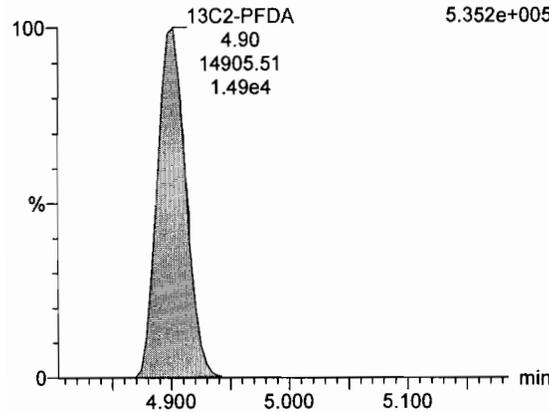
**13C5-PFHxA**

170928G1\_9 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
6.925e+005



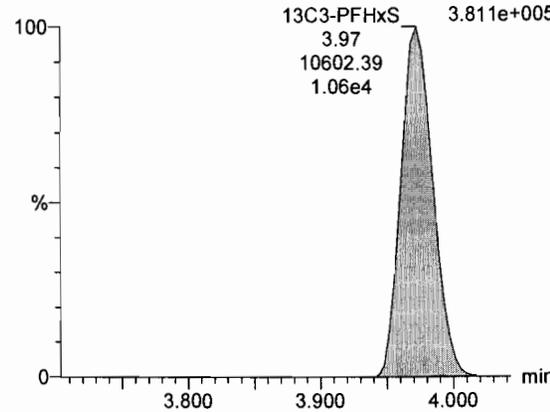
**13C2-PFDA**

170928G1\_9 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
5.352e+005



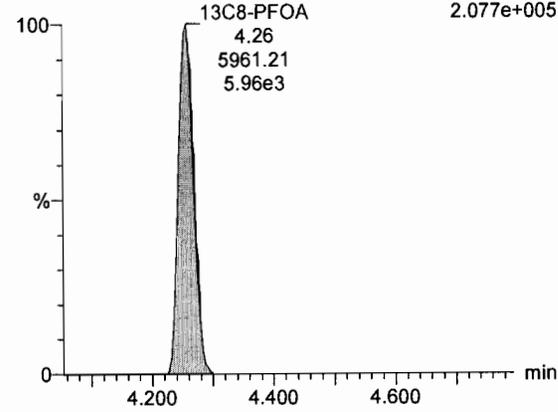
**13C3-PFHxS**

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





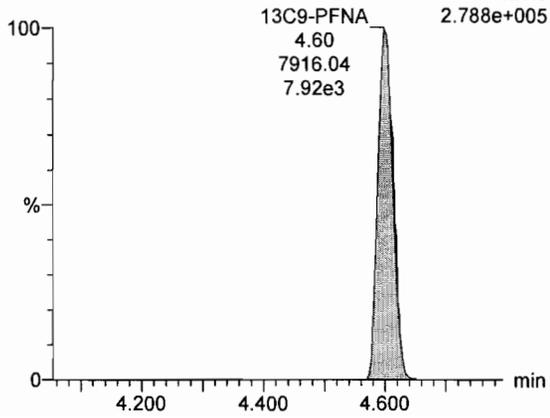
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Last Altered: Thursday, September 28, 2017 10:47:24 Pacific Daylight Time  
Printed: Thursday, September 28, 2017 10:48:38 Pacific Daylight Time

Name: 170928G1\_9, Date: 28-Sep-2017, Time: 10:04:52, ID: ST170928G1-8 PFC CS5 1712629, Description: PFC CS5 1712629

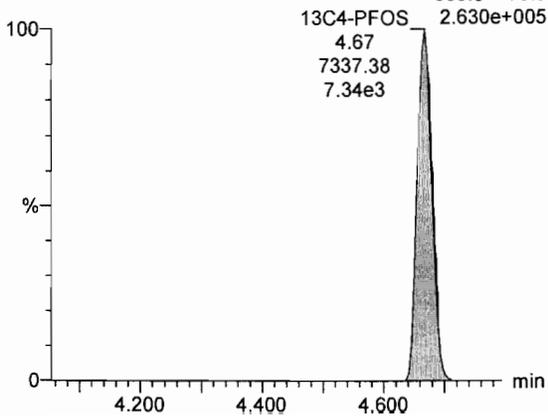
**13C9-PFNA**

170928G1\_9 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.788e+005



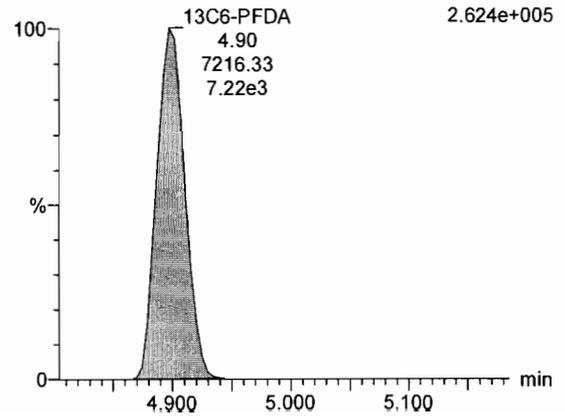
**13C4-PFOS**

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

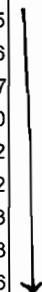
Method: U:\G1.PRO\MethDB\PFAS\_14or16\_2trans\_0915.mdb 15 Sep 2017 16:05:04

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

Dataset: U:\G1.PRO\Results\2017\170928G1\170928G1-12.qld

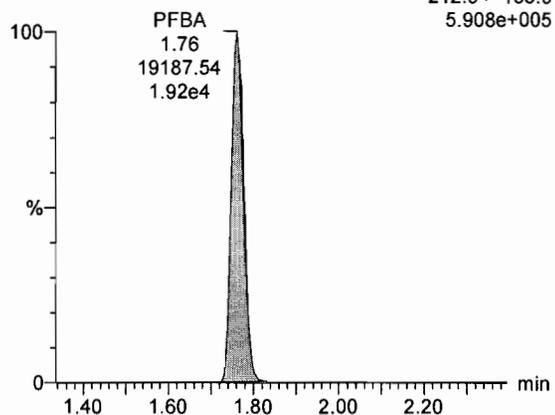
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Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_9-28-17\_A\_2Trans.cdb 28 Sep 2017 10:47:24

Name: 170928G1\_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

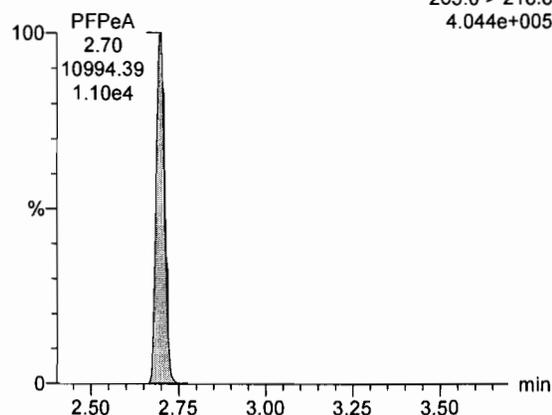
**PFBA**

170928G1\_12 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
212.9 > 168.9  
5.908e+005



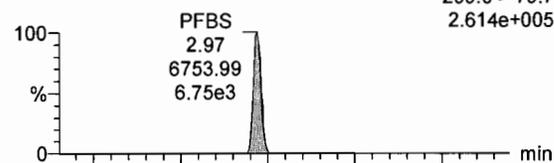
**PFPeA**

170928G1\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
263.0 > 218.8  
4.044e+005

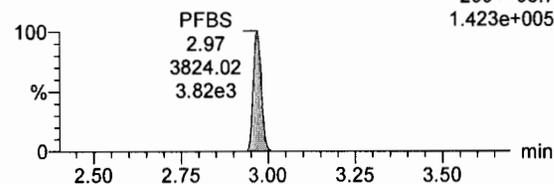


**PFBS**

170928G1\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299.0 > 79.7  
2.614e+005

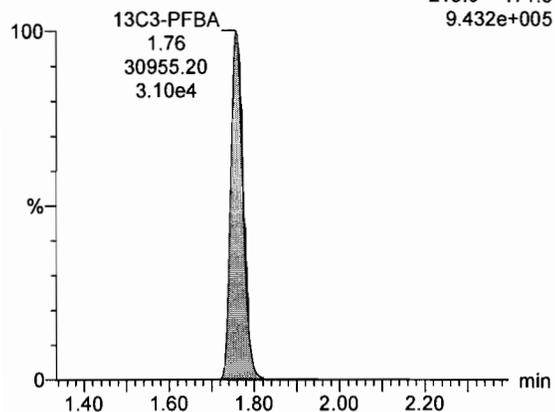


170928G1\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
299 > 98.7  
1.423e+005



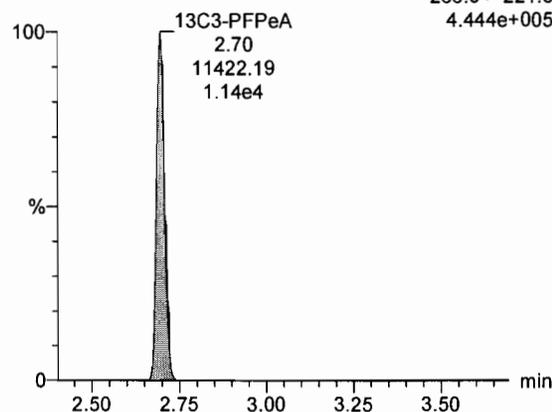
**13C3-PFBA**

170928G1\_12 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
215.9 > 171.8  
9.432e+005



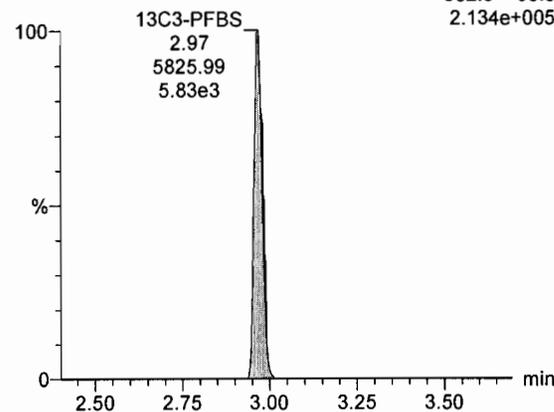
**13C3-PFPeA**

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

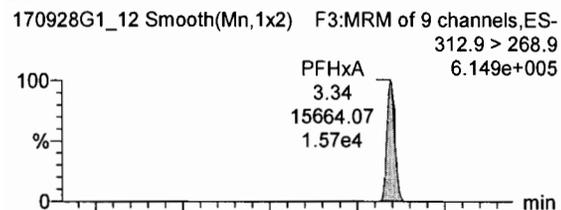


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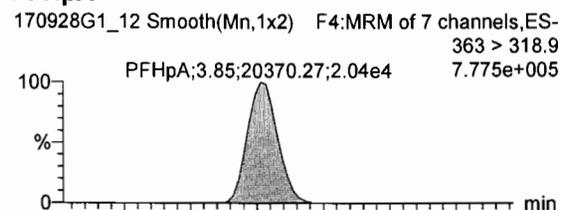
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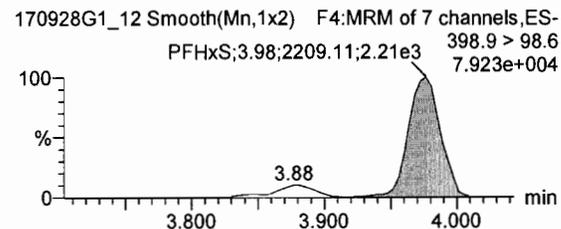
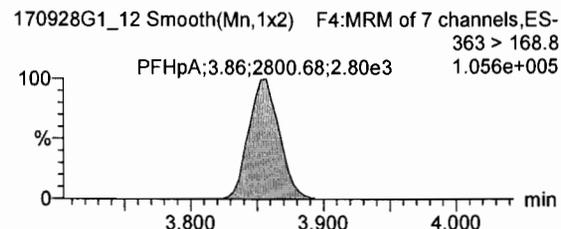
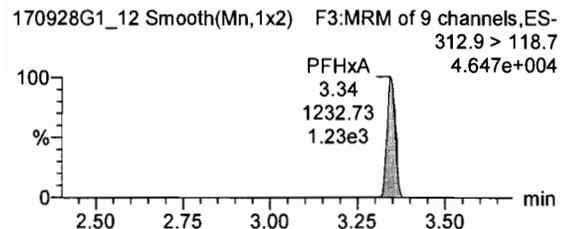
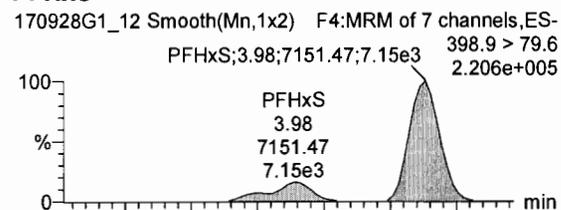
**PFHxA**



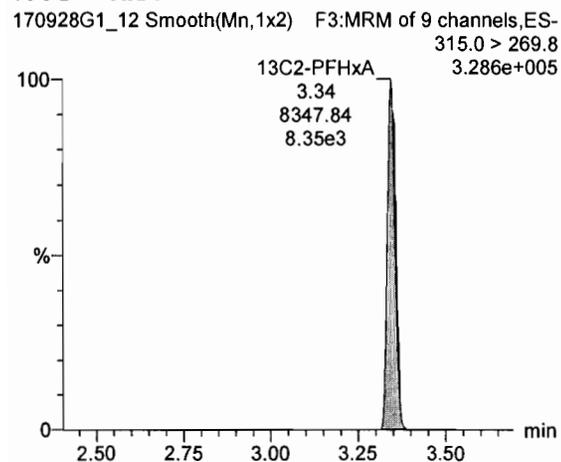
**PFHpA**



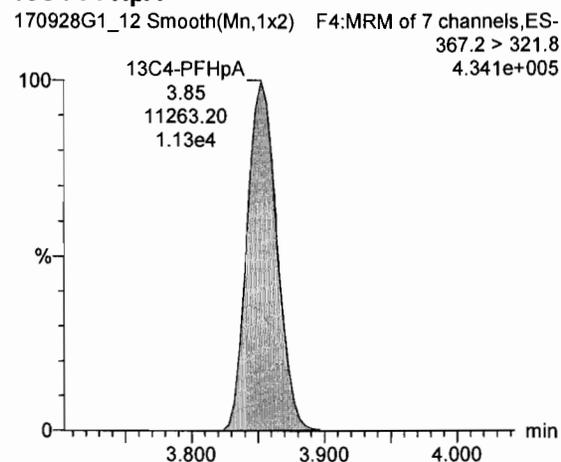
**PFHxS**



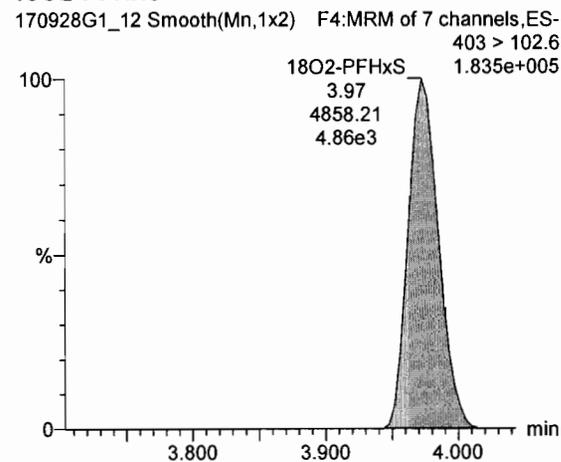
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



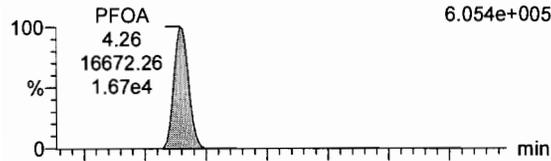
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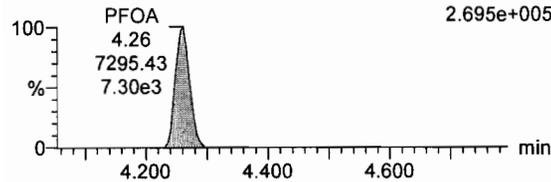
Name: 170928G1\_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

**PFOA**

170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 368.7  
6.054e+005

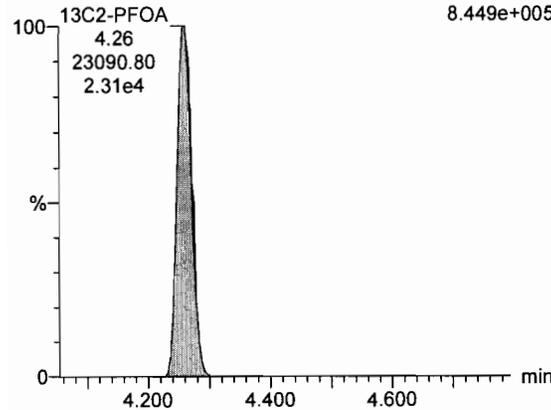


170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
413.0 > 168.8  
2.695e+005



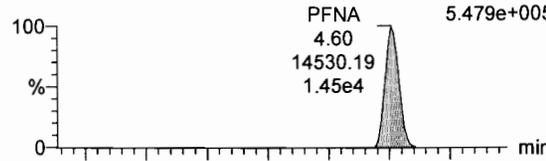
**13C2-PFOA**

170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
414.9 > 369.7  
8.449e+005

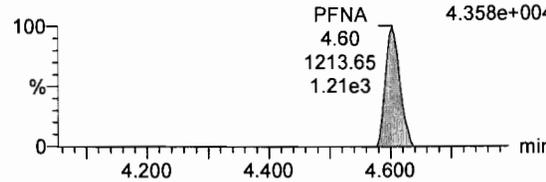


**PFNA**

170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 418.8  
5.479e+005

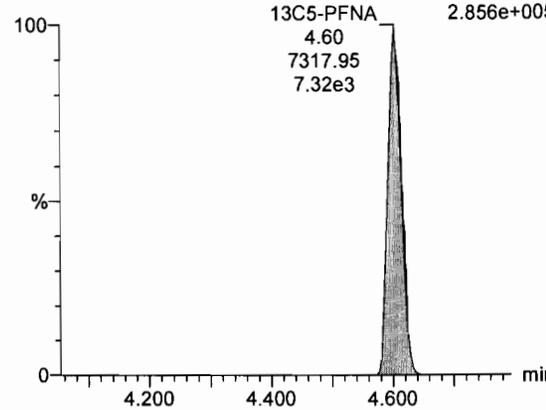


170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
463.0 > 219.0  
4.358e+004



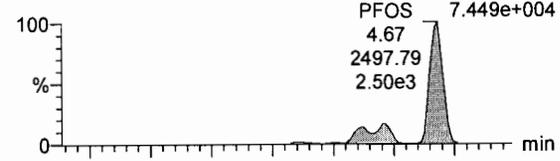
**13C5-PFNA**

170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
468.2 > 422.9  
2.856e+005

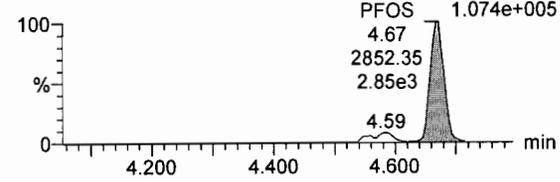


**PFOS**

170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499.0 > 79.9  
7.449e+004

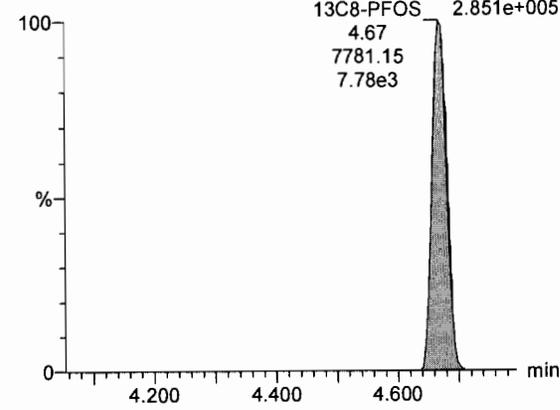


170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
499 > 98.8  
1.074e+005



**13C8-PFOS**

170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
507.0 > 79.9  
2.851e+005



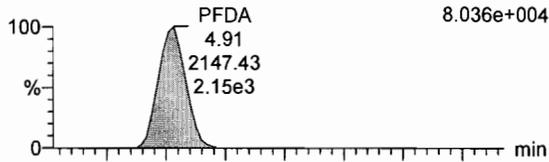
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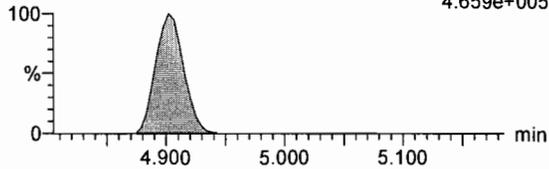
Name: 170928G1\_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 15I2621, Description: PFC ICV 15I2621

**PFDA**

170928G1\_12 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 219.0  
8.036e+004

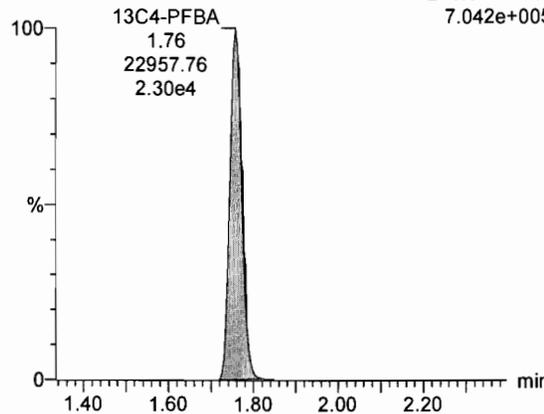


170928G1\_12 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
512.7 > 468.7  
4.659e+005



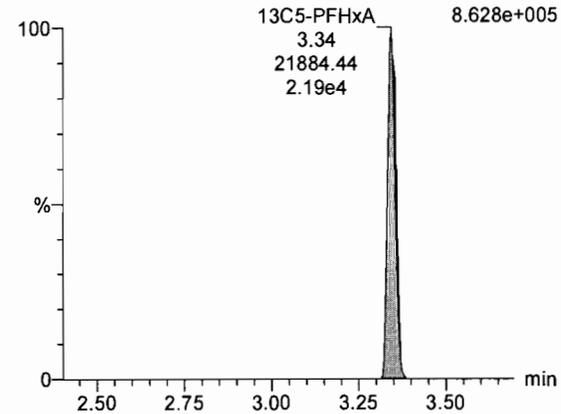
**13C4-PFBA**

170928G1\_12 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-  
216.9 > 171.8  
7.042e+005



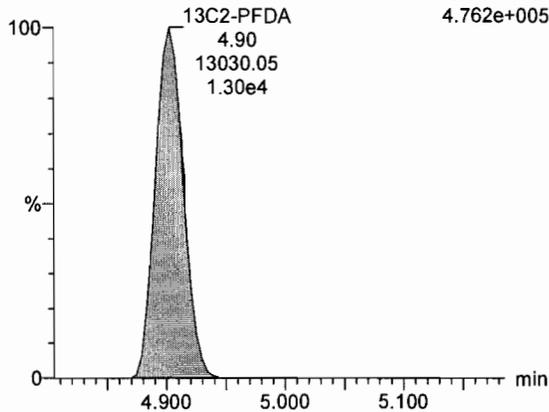
**13C5-PFHxA**

170928G1\_12 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-  
318 > 272.9  
8.628e+005



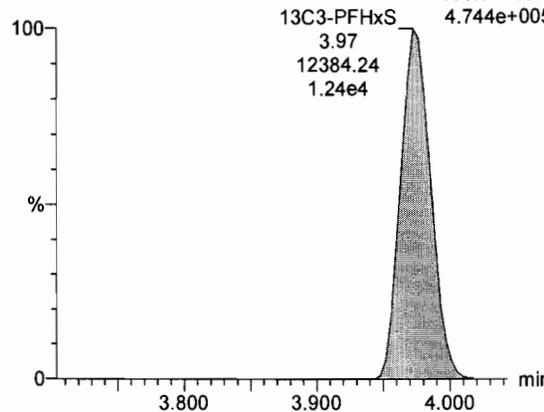
**13C2-PFDA**

170928G1\_12 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-  
514.8 > 469.7  
4.762e+005



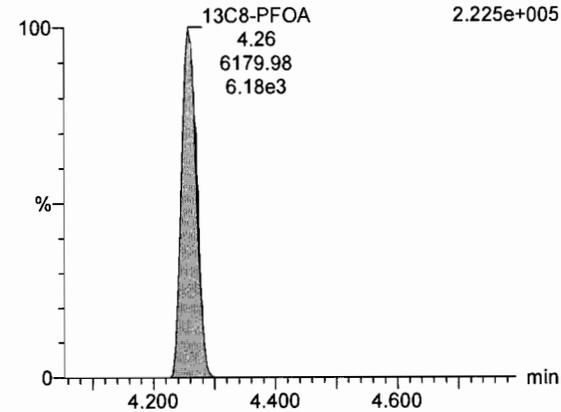
**13C3-PFHxS**

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



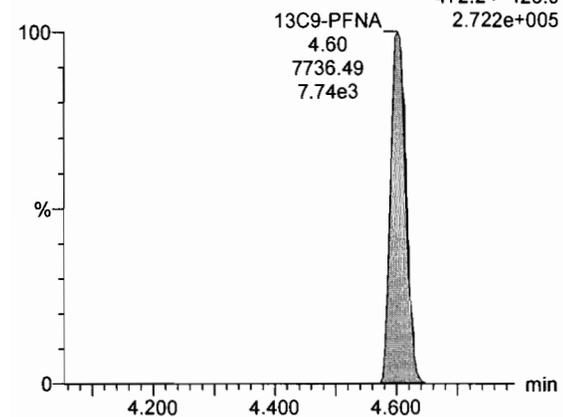
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Name: 170928G1\_12, Date: 28-Sep-2017, Time: 10:42:35, ID: ICV170928G1-1 PFC ICV 1512621, Description: PFC ICV 1512621

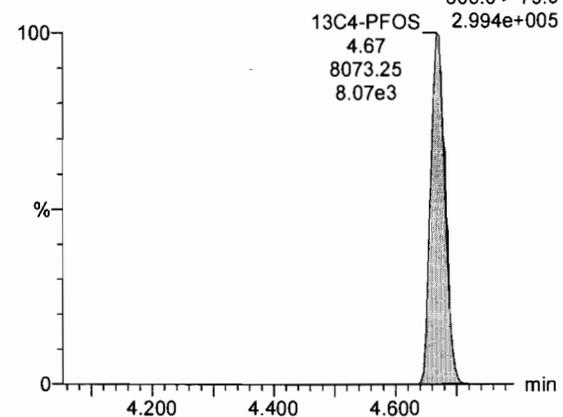
**13C9-PFNA**

170928G1\_12 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-  
472.2 > 426.9  
2.722e+005



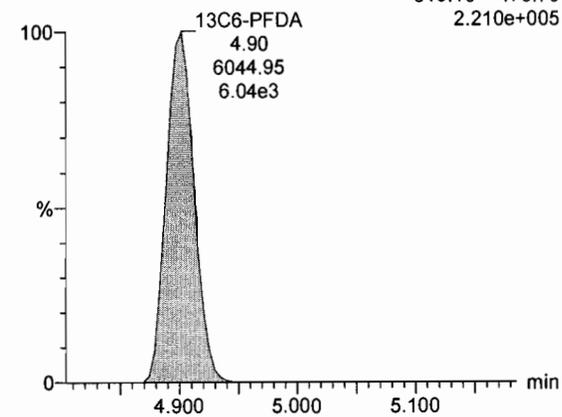
**13C4-PFOS**

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



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Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

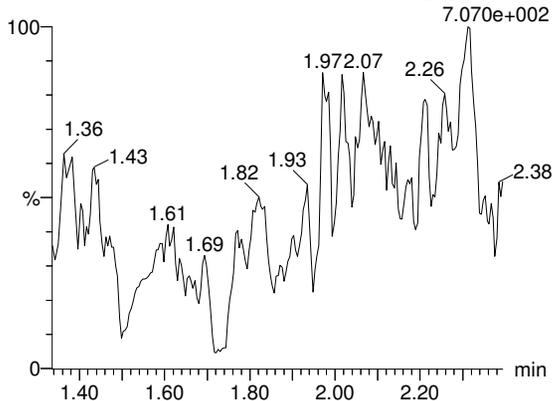
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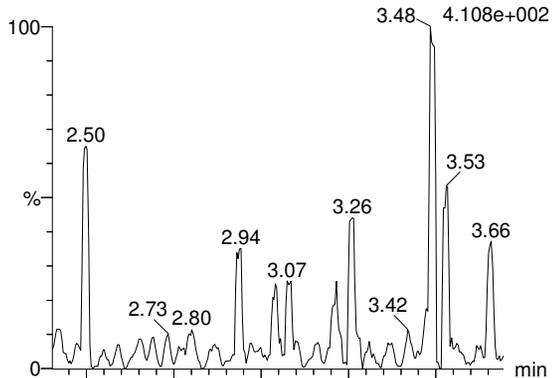
**PFBA**

170928G1\_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 212.9 > 168.9 7.070e+002



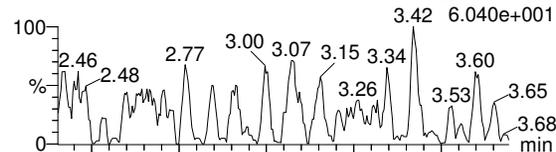
**PFPeA**

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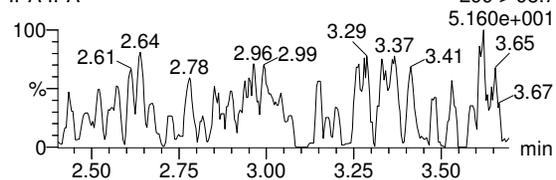


**PFBS**

170928G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299.0 > 79.7 6.040e+001

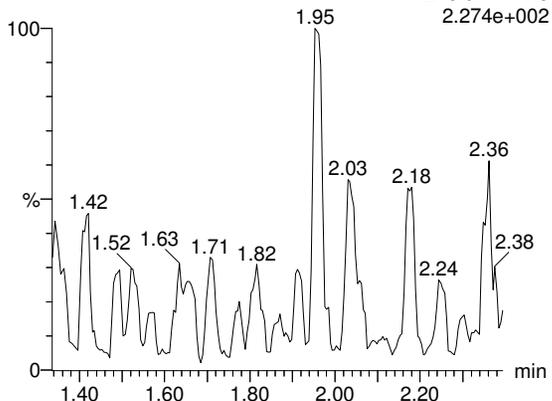


170928G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 299 > 98.7 5.160e+001



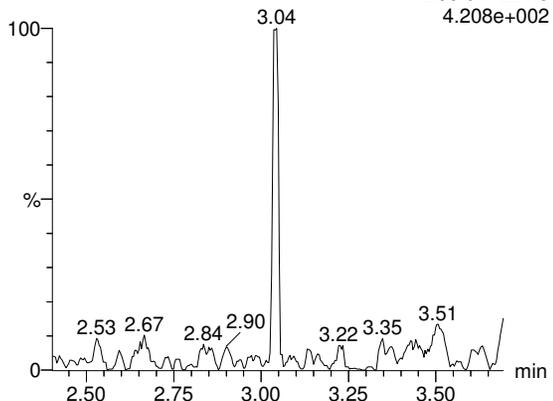
**13C3-PFBA**

170928G1\_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 215.9 > 171.8 2.274e+002



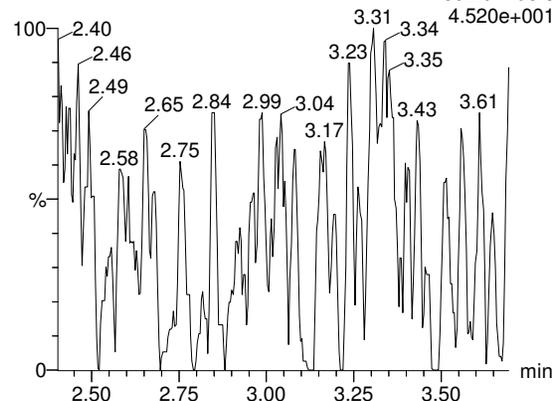
**13C3-PFPeA**

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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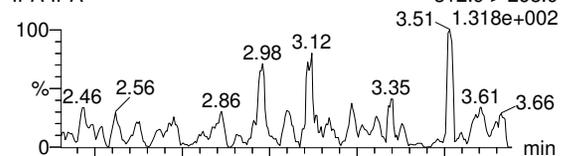
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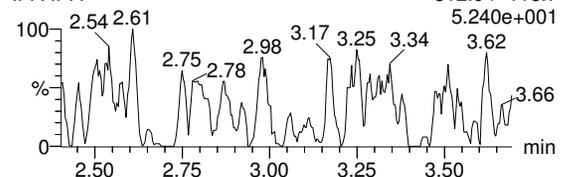
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**PFHxA**

170928G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 312.9 > 268.9

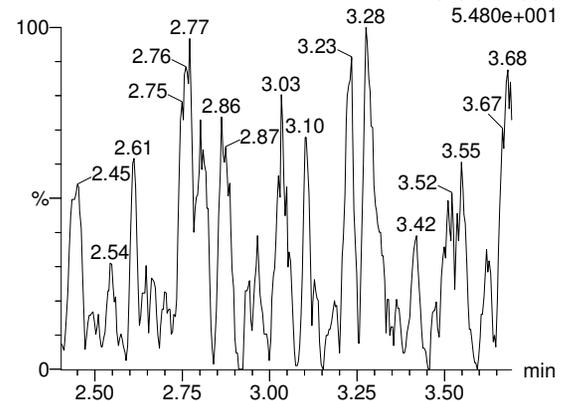


170928G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 312.9 > 118.7



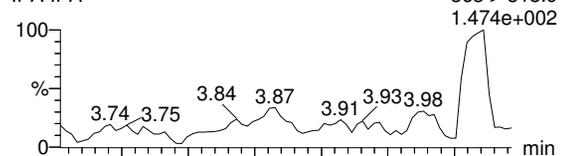
**13C2-PFHxA**

170928G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 315.0 > 269.8

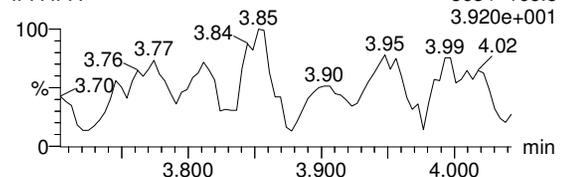


**PFHpA**

170928G1\_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 363 > 318.9

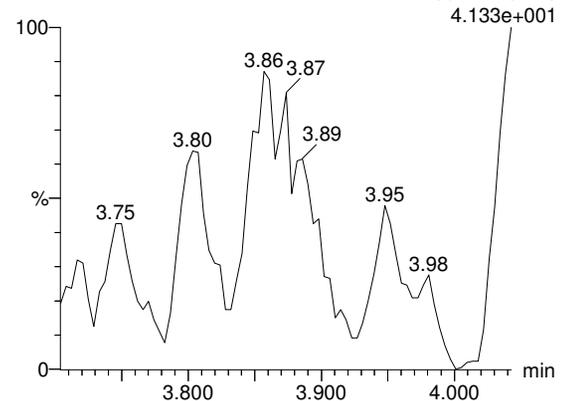


170928G1\_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 363 > 168.8



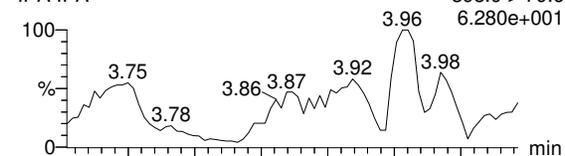
**13C4-PFHpA**

170928G1\_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 367.2 > 321.8

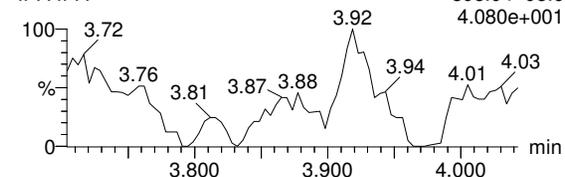


**PFHxS**

170928G1\_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 398.9 > 79.6

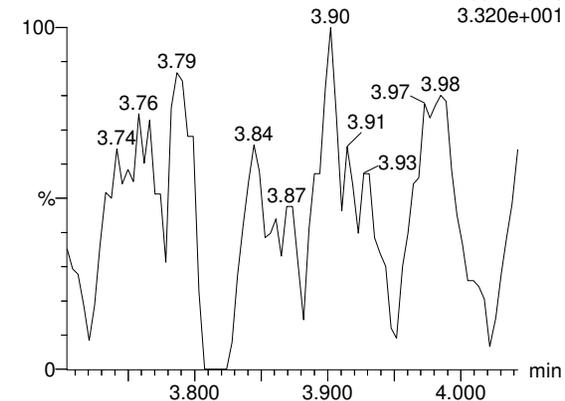


170928G1\_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 398.9 > 98.6



**18O2-PFHxS**

170928G1\_11 Smooth(Mn,1x2) F4:MRM of 7 channels,ES-IPA IPA 403 > 102.6



Dataset: Untitled

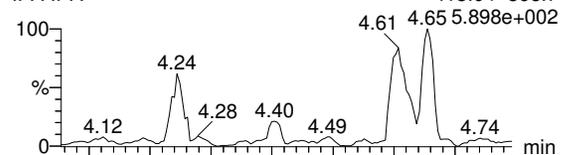
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Printed: Thursday, September 28, 2017 10:59:28 Pacific Daylight Time

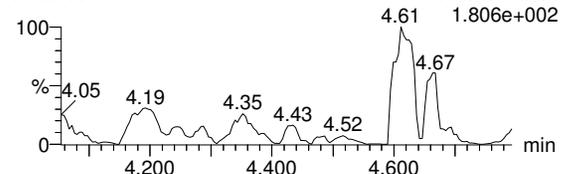
Name: 170928G1\_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

**PFOA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 368.7

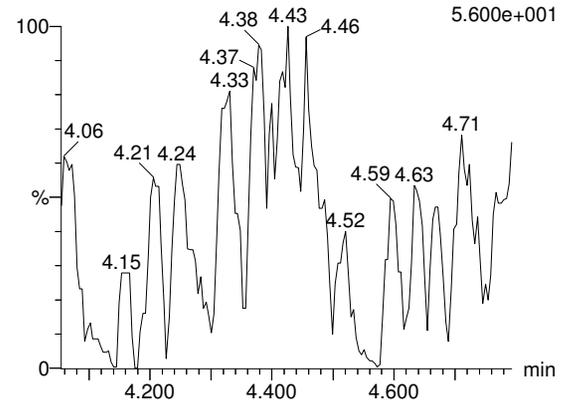


170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 413.0 > 168.8



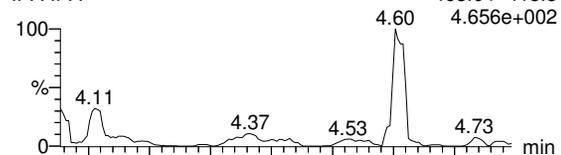
**13C2-PFOA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 414.9 > 369.7

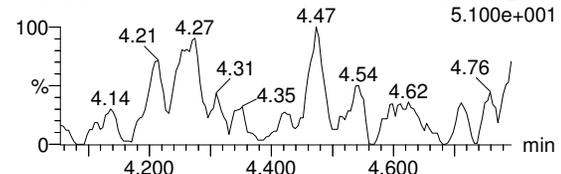


**PFNA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 418.8

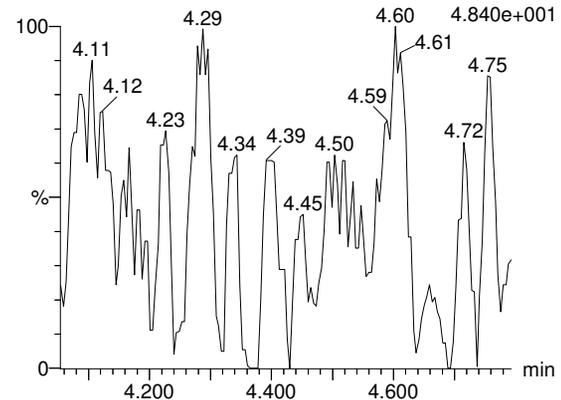


170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 463.0 > 219.0



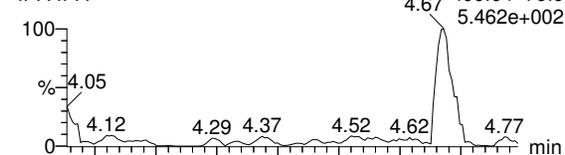
**13C5-PFNA**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 468.2 > 422.9

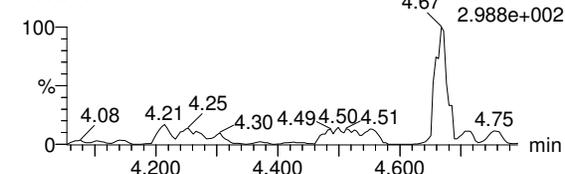


**PFOS**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499.0 > 79.9

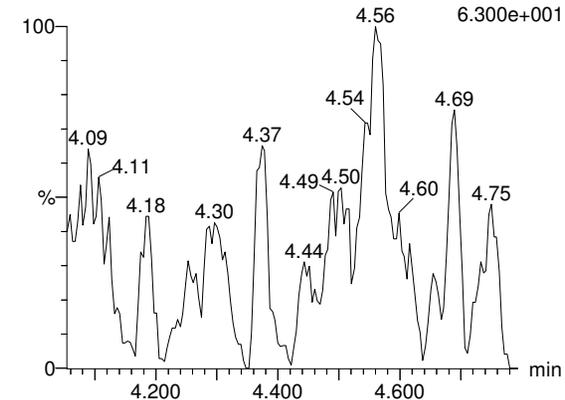


170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 499 > 98.8



**13C8-PFOS**

170928G1\_11 Smooth(Mn,1x2) F5:MRM of 12 channels,ES-IPA IPA 507.0 > 79.9



Dataset: Untitled

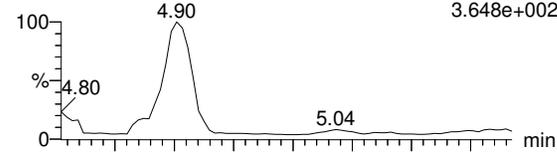
Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

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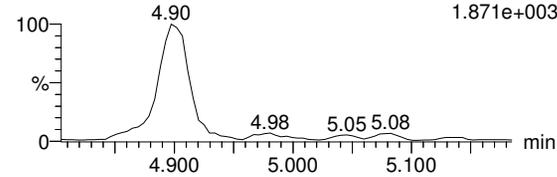
Name: 170928G1\_11, Date: 28-Sep-2017, Time: 10:30:00, ID: IPA, Description: IPA

**PFDA**

170928G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 219.0 3.648e+002

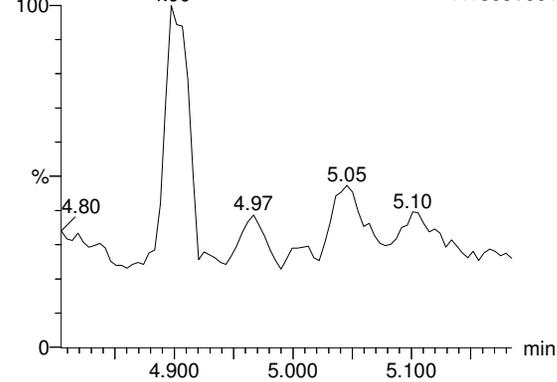


170928G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 512.7 > 468.7 1.871e+003



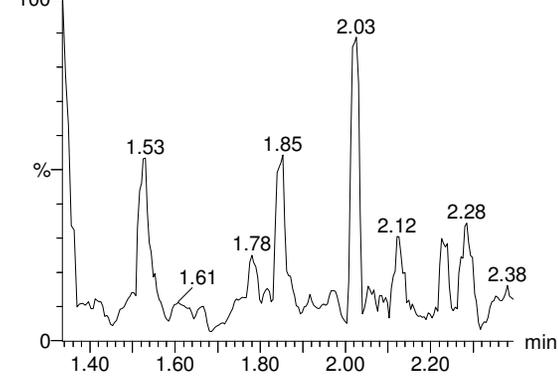
**13C2-PFDA**

170928G1\_11 Smooth(Mn,1x2) F6:MRM of 4 channels,ES-IPA IPA 514.8 > 469.7 7.180e+001



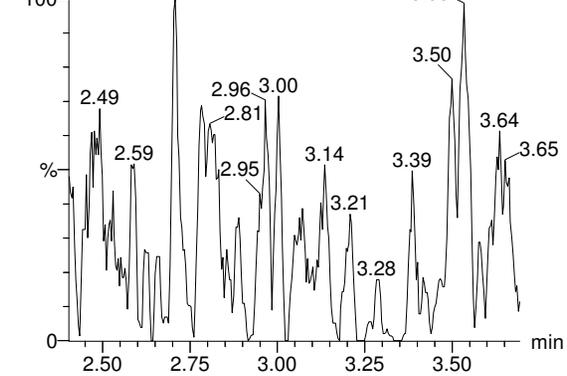
**13C4-PFBA**

170928G1\_11 Smooth(Mn,1x2) F2:MRM of 3 channels,ES-IPA IPA 216.9 > 171.8 1.350e+002



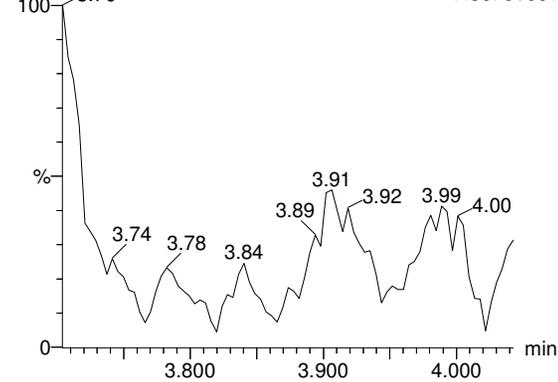
**13C5-PFHxA**

170928G1\_11 Smooth(Mn,1x2) F3:MRM of 9 channels,ES-IPA IPA 318 > 272.9 5.840e+001



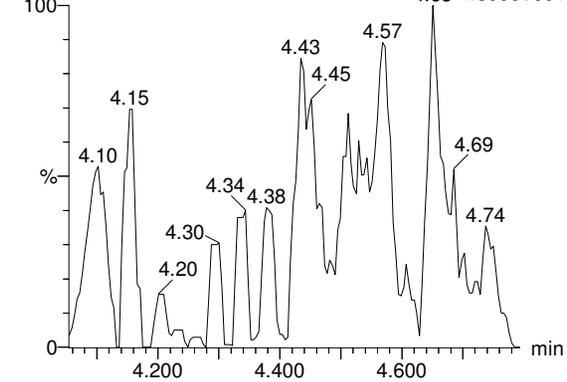
**13C3-PFHxS**

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



Dataset: Untitled

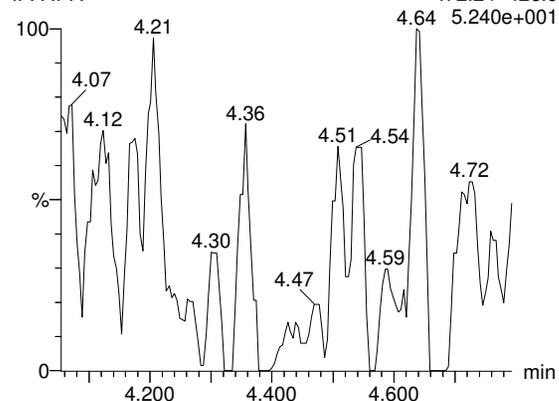
Last Altered: Thursday, September 28, 2017 10:59:08 Pacific Daylight Time

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

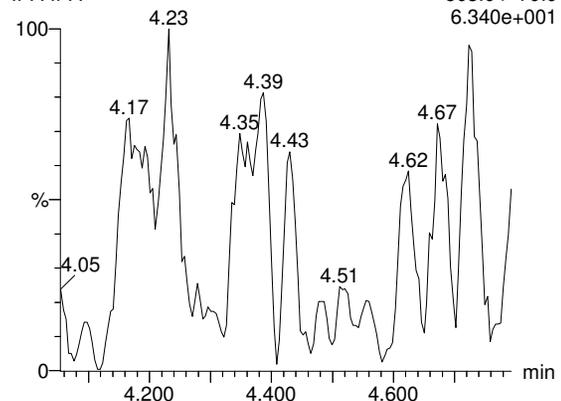
**13C9-PFNA**

170928G1\_11 Smooth(Mn,1x2) F5:MRRM of 12 channels,ES-IPA IPA 472.2 > 426.9



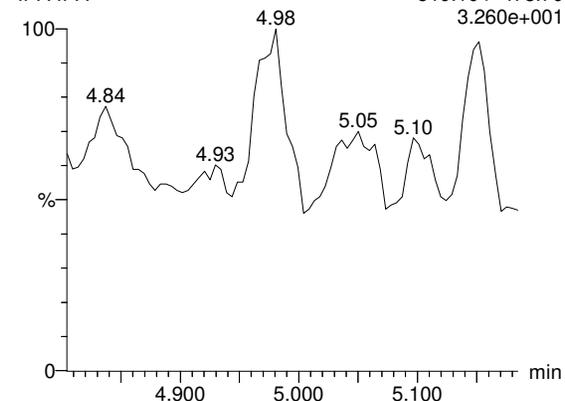
**13C4-PFOS**

170928G1\_11 Smooth(Mn,1x2) F5:MRRM of 12 channels,ES-IPA IPA 503.0 > 79.9



**13C6-PFDA**

170928G1\_11 Smooth(Mn,1x2) F6:MRRM of 4 channels,ES-IPA IPA 519.10 > 473.70





**DATA VALIDATION SUMMARY REPORT  
NAS OCEANA, VIRGINIA BEACH, VIRGINIA**

Client: CH2M HILL, Inc., Virginia Beach, Virginia  
 SDG: 1701277  
 Laboratory: Vista Analytical Laboratory, El Dorado Hills, California  
 Site: NAS Oceana, Virginia Beach, Virginia, CTO-WE14  
 Date: May 11, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	OW2E-MW09R-0917	1701277-01	Water
2	OW2C-MW05-0917	1701277-02	Water
3	OW2C-MW05P-0917	1701277-03	Water
4	OW2C-MW25-0917	1701277-04	Water
5	OW2C-MW19-0917	1701277-05	Water
6	OW2C-MW24-0917	1701277-06	Water
6MS	OW2C-MW24-0917MS	1701277-06MS	Water
6MSD	OW2C-MW24-0917MSD	1701277-06MSD	Water
7	OW2C-EB-0917	1701277-07	Water
8	OW2C-FB-0917	1701277-08	Water

A full data validation was performed on the analytical data for six water samples, one aqueous equipment blank sample, and one aqueous field blank sample collected on September 19, 2017 by CH2M HILL at the NAS Oceana site in Virginia Beach, Virginia. The samples were analyzed under the EPA Method “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”.

Specific method references are as follows:

Analysis  
PFCs

Method References  
USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM), Version 5.0 (July 2013) and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review,” January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

## ***Organics***

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Internal Standards
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

### **Data Usability Assessment**

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

### **Perfluorinated Compounds (PFCs)**

#### **Data Completeness, Case Narrative & Custody Documentation**

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

#### **Holding Times**

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

#### **Initial Calibration**

- All percent difference (%D) and/or correlation coefficients criteria were met.

#### **Continuing Calibration**

- All percent recovery (%R) criteria were met.

### Method Blank

- The method blanks exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
B7I0112-BLK1	PFOA	1.42	None	All ND or >10X

### Field QC Blank

- The field blank samples were free of contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
OW2C-EB-0917	None - ND	-	-	-
OW2C-FB-0917	None - ND	-	-	-

### Internal Standards

- According to the case narrative, the samples were re-injected because the internal standard response areas were outside of criteria. The sample results have been reported from the second injection which passed the area criteria. No action was taken on this basis.

### Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

MS/MSD Sample	Compound	MS %R/MSD %R/RPD	Qualifier	Affected Samples
6	PFOA	-5.86%/328%/207	None	4X Rule Applies
	PFOS	OK/OK/26.4	None	For RPD Alone

### Laboratory Control Sample (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R).

### Target Compound Identification

- All mass spectra and quantitation criteria were met.



### Compound Quantitation

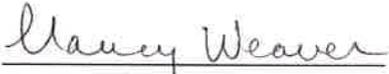
- EDS Sample 4 was analyzed at a 10X dilution for two compounds due to high concentrations. The reporting limits were adjusted accordingly. No action was required.

### Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

PFCs				
Compound	OW2C-MW05-0917 ng/L	OW2C-MW05D-0917 ng/L	RPD	Qualifier
PFBS	17.5	20.1	14%	None
PFHpA	45.4	46.9	3%	
PFHxS	115	108	6%	
PFOA	70.7	67.2	5%	
PFOS	221	227	3%	
PFNA	60.3	69.3	14%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:  Dated: 5/11/18  
Nancy Weaver  
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.



**Sample ID: OW2E-MW09R-0917**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Aqueous	Lab Sample: 1701277-01	Column: BEH C18
Project: CTO-WE14	Date Collected: 19-Sep-17 09:00	Date Received: 21-Sep-17 09:07	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
Labeled Standards	% Recovery		Limits							
PFBS	39.0	1.88	5.25	8.42		B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFHpA	30.1	0.622	5.25	8.42		B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFHxS	384	0.996	5.25	8.42		B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFOA	136	0.685	5.25	8.42		B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFOS	95.4	0.849	5.25	8.42		B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
PFNA	3.17	0.852	5.25	8.42	J	B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C3-PFBS	134		50 - 150			B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C4-PFHpA	116		50 - 150			B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
18O2-PFHxS	120		50 - 150			B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C2-PFOA	74.3		50 - 150			B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C8-PFOS	96.5		50 - 150			B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	1
13C5-PFNA	101		50 - 150			B710112	22-Sep-17	0.119 L	28-Sep-17 17:54	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.

new studies

**Sample ID: OW2C-MW05-0917**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Aqueous	Lab Sample: 1701277-02	Column: BEH C18
Project: CTO-WE14	Date Collected: 19-Sep-17 10:05	Date Received: 21-Sep-17 09:07	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	17.5	1.91	5.34	8.52		B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFHpA	45.4	0.630	5.34	8.52		B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFHxS	115	1.01	5.34	8.52		B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFOA	70.7	0.693	5.34	8.52		B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFOS	221	0.860	5.34	8.52		B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
PFNA	60.3	0.863	5.34	8.52		B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
<b>Labeled Standards</b>	<b>% Recovery</b>		<b>Limits</b>		<b>Qualifiers</b>	<b>Batch</b>	<b>Extracted</b>	<b>Samp Size</b>	<b>Analyzed</b>	<b>Dilution</b>
13C3-PFBS	144		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C4-PFHpA	120		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
18O2-PFHxS	104		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C2-PFOA	83.2		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C8-PFOS	106		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	1
13C5-PFNA	108		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 18:06	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.

new standard

**Sample ID: OW2C-MW05P-0917**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Aqueous	Lab Sample: 1701277-03	Column: BEH C18
Project: CTO-WE14	Date Collected: 19-Sep-17 10:10	Date Received: 21-Sep-17 09:07	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
	<b>% Recovery</b>		<b>Limits</b>							
PFBS	20.1	2.15	6.01	9.60		B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFHpA	46.9	0.709	6.01	9.60		B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFHxS	108	1.14	6.01	9.60		B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFOA	67.2	0.781	6.01	9.60		B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFOS	227	0.968	6.01	9.60		B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
PFNA	69.3	0.972	6.01	9.60		B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
<b>Labeled Standards</b>	<b>Type</b>				<b>Qualifiers</b>	<b>Batch</b>	<b>Extracted</b>	<b>Samp Size</b>	<b>Analyzed</b>	<b>Dilution</b>
13C3-PFBS	IS		50 - 150			B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C4-PFHpA	IS		50 - 150			B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
18O2-PFHxS	IS		50 - 150			B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C2-PFOA	IS		50 - 150			B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C8-PFOS	IS		50 - 150			B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	1
13C5-PFNA	IS		50 - 150			B710112	22-Sep-17	0.104 L	28-Sep-17 18:19	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.

new 5/11/18

**Sample ID: OW2C-MW25-0917**

**Modified EPA Method 537**

Client Data		Matrix:		Laboratory Data	
Name:	CH2M Hill	Aqueous		Lab Sample:	1701277-04
Project:	CTO-WE14	Date Collected:	19-Sep-17 11:30	Date Received:	21-Sep-17 09:07
		Column:			BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	102	21.9	61.3	98.0		B710112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
PFHpA	342	0.724	6.13	9.80		B710112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
PFHxS	2520	11.6	61.3	98.0		B710112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
PFOA	829	0.797	6.13	9.80		B710112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
PFOS	29500	97.0	601	962		B710147	27-Sep-17	0.00104 L	29-Sep-17 16:15	1
PFNA	122	0.992	6.13	9.80		B710112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
Labeled Standards	% Recovery	Limits		Qualifiers		Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	134	50 - 150				B710112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
13C4-PFHpA	143	50 - 150				B710112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
18O2-PFHxS	139	50 - 150				B710112	22-Sep-17	0.102 L	29-Sep-17 16:40	10
13C2-PFOA	84.0	50 - 150				B710112	22-Sep-17	0.102 L	28-Sep-17 18:31	1
13C8-PFOS	98.1	50 - 150				B710147	27-Sep-17	0.00104 L	29-Sep-17 16:15	1
13C5-PFNA	94.8	50 - 150				B710112	22-Sep-17	0.102 L	28-Sep-17 18:31	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.

new study

**Sample ID: OW2C-MW19-0917**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Aqueous	Lab Sample: 1701277-05	Column: BEH C18
Project: CTO-WE14	Date Collected: 19-Sep-17 12:45	Date Received: 21-Sep-17 09:07	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	74.3	2.08	5.79	9.28		B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I
PFHpA	49.9	0.686	5.79	9.28		B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I
PFHxS	381	1.10	5.79	9.28		B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I
PFOA	234	0.755	5.79	9.28	B	B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I
PFOS	790	0.936	5.79	9.28		B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I
PFNA	59.8	0.940	5.79	9.28		B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I
Labeled Standards	Type	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	50 - 150			B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I	
13C4-PFHpa	IS	50 - 150			B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I	
18O2-PFHxS	IS	50 - 150			B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I	
13C2-PFOA	IS	50 - 150			B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I	
13C8-PFOS	IS	50 - 150			B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I	
13C5-PFNA	IS	50 - 150			B710112	22-Sep-17	0.108 L	28-Sep-17 18:56	I	

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.

*new studies*



**Sample ID: OW2C-MW24-0917**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name:	CH2M Hill	Lab Sample:	1701277-06
Project:	CTO-WE14	Date Received:	21-Sep-17 09:07
Matrix:	Aqueous	Column:	BEH C18
Date Collected:	19-Sep-17 14:45		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	14.9	2.04	5.73	9.14		B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFHpA	36.7	0.675	5.73	9.14		B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFHxS	88.4	1.08	5.73	9.14		B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFOA	1520	0.744	5.73	9.14	P	B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFOS	91.3	0.922	5.73	9.14		B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
PFNA	5.63	0.925	5.73	9.14	J	B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
<b>Labeled Standards</b>	<b>% Recovery</b>		<b>Limits</b>		<b>Qualifiers</b>	<b>Batch</b>	<b>Extracted</b>	<b>Samp Size</b>	<b>Analyzed</b>	<b>Dilution</b>
13C3-PFBS	140		50 - 150			B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C4-PFHpA	121		50 - 150			B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
18O2-PFHxS	104		50 - 150			B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C2-PFOA	79.6		50 - 150			B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C8-PFOS	101		50 - 150			B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	1
13C5-PFNA	95.9		50 - 150			B710112	22-Sep-17	0.109 L	28-Sep-17 19:09	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.

see sl. 1.8

**Sample ID: OW2C-EB-0917**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Aqueous	Lab Sample: 1701277-07	Column: BEH C18
Project: CTO-WE14	Date Collected: 19-Sep-17 15:30	Date Received: 21-Sep-17 09:07	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.55		B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFHpA	ND	0.632	5.34	8.55		B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFHxS	ND	1.01	5.34	8.55		B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFOA	ND	0.696	5.34	8.55		B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFOS	ND	0.863	5.34	8.55		B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
PFNA	ND	0.866	5.34	8.55		B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
<b>Labeled Standards</b>	<b>% Recovery</b>		<b>Limits</b>		<b>Qualifiers</b>	<b>Batch</b>	<b>Extracted</b>	<b>Samp Size</b>	<b>Analyzed</b>	<b>Dilution</b>
13C3-PFBS	142		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C4-PFHpA	113		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
18O2-PFHxS	99.2		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C2-PFOA	75.2		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C8-PFOS	95.2		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	1
13C5-PFNA	82.5		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:12	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.

new studies

**Sample ID: OW2C-FB-0917**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Aqueous	Lab Sample: 1701277-08	Column: BEH C18
Project: CTO-WE14	Date Collected: 19-Sep-17 12:15	Date Received: 21-Sep-17 09:07	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
Labeled Standards	% Recovery		Limits			Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.53		B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFHpA	ND	0.630	5.34	8.53		B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFHxS	ND	1.01	5.34	8.53		B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFOA	ND	0.694	5.34	8.53		B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFOS	ND	0.860	5.34	8.53		B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
PFNA	ND	0.863	5.34	8.53		B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C3-PFBS	137		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C4-PFHpA	108		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
18O2-PFHxS	112		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C2-PFOA	76.7		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C8-PFOS	110		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	1
13C5-PFNA	86.2		50 - 150			B710112	22-Sep-17	0.117 L	28-Sep-17 20:24	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.

new studies

