



**Off-Base Drinking Water Sample Results,  
Combined Level 2 and Level 4 Laboratory Report,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Figure, SDG 1700550**

*Naval Air Warfare Center Trenton  
Trenton, New Jersey*

August 2019

N62376\_001206  
NAWC TRENTON, NJ  
SSIC 5000-33c

**LABORATORY DATA PACKAGE, 1700550, NAWC TRENTON NJ**  
06/19/2017  
VISTA ANALYTICAL LABORATORY

Approved for public release: distribution unlimited.



June 19, 2017

**Vista Work Order No. 1700550**

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

Dear Ms. Mang,

Enclosed are the amended results for the sample set received at Vista Analytical Laboratory on May 02, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'NAWC Trenton, NJ'. The SDG Number is WE08.

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

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

Sincerely,

A handwritten signature in cursive script that reads "Karen Lopez" followed by a small "for" and a line.

Martha Maier  
Laboratory Director



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

**SDG Number WE08**

**Vista Work Order No. 1700550**

**Case Narrative**

**Sample Condition on Receipt:**

Five drinking water samples and five blank water 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. The client confirmed that the sample ID for the FRB is "FRB09-20170501". As requested, this report was amended to include Vista's company logo to each individual sample analytical results page.

**Analytical Notes:**

**EPA Method 537**

The drinking water samples were extracted and analyzed for the UCMR list of six PFAS using EPA Method 537.

Holding Times

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

Quality Control

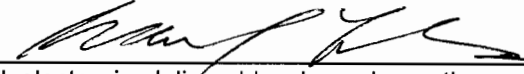
The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

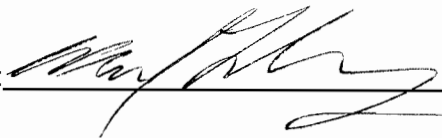
A Laboratory Fortified Blank (LFB) and Laboratory Reagent Blank (LRB) were extracted and analyzed with the preparation batch. No analytes were detected in the LRB above 1/2 the LOQ. The LFB recoveries were within the method acceptance criteria.

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

A Laboratory Fortified Sample Matrix (LFSM) and Laboratory Fortified Sample Matrix Duplicate (LFSMD) was prepared and analyzed using sample "RW02-20170501".

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

 as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at ( 916 ) 673 -1520 If there are any questions or problems with the enclosed electronic deliverables.

Signature:  Title: Principal  
Acting QA Manager Date: 5/10/17

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# Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700550-01	RW02-20170501	MS/MSD	01-May-17 10:25	02-May-17 11:30	HDPE Bottle, 250 mL
		MS/MSD			HDPE Bottle, 250 mL
		MS/MSD			HDPE Bottle, 250 mL
		MS/MSD			HDPE Bottle, 250 mL
		MS/MSD			HDPE Bottle, 250 mL
		MS/MSD			HDPE Bottle, 250 mL
1700550-02	FRB02-20170501		01-May-17 10:20	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-03	RW12-20170501		01-May-17 11:45	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-04	FRB12-20170501		01-May-17 11:40	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-05	RW13-20170501		01-May-17 12:15	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-06	FRB13-20170501		01-May-17 12:10	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-07	RW13G-20170501		01-May-17 12:35	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-08	FRB13G-20170501		01-May-17 12:30	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-09	RW09-20170501		01-May-17 15:45	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1700550-10	FRB09-20170501		01-May-17 15:40	02-May-17 11:30	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

## **ANALYTICAL RESULTS**



**Sample ID: LRB** **EPA Method 537**

Matrix: Drinking Water	QC Batch: B7D0150	Lab Sample: B7D0150-BLK1
Sample Size: 0.250 L	Date Extracted: 03-May-2017 8:23	Date Analyzed: 08-May-17 13:06 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.51	10.0	20.0		SUR 13C2-PFHxA	103	70 - 130	
PFHpA	ND	3.20	10.0	20.0		SUR 13C2-PFDA	102	70 - 130	
PFHxS	ND	1.77	10.0	20.0					
PFOA	ND	4.27	10.0	20.0					
PFNA	ND	3.49	10.0	20.0					
PFOS	ND	1.96	10.0	20.0					

DL - Detection limit  
 RL - Reporting limit

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

**Sample ID: LFB**

**EPA Method 537**

Matrix: Drinking Water Sample Size: 0.250 L	QC Batch: B7D0150 Date Extracted: 03-May-2017 8:23	Lab Sample: B7D0150-BS1 Date Analyzed: 08-May-17 12:42 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	18.7	17.7	106	70 - 130	SUR 13C2-PFHxA	99.1	70 - 130
PFHpA	20.5	20.0	102	70 - 130	SUR 13C2-PFDA	101	70 - 130
PFHxS	18.1	18.2	99.1	70 - 130			
PFOA	21.7	20.0	109	70 - 130			
PFNA	20.1	20.0	100	70 - 130			
PFOS	22.3	18.5	121	70 - 130			

LCL-UCL - Lower control limit - upper control limit

**Sample ID: RW02-20170501** **EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-01	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.257 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 10:25			Date Analyzed:	08-May-17 13:19	Column:	BEH C18
Location:	Pressure Tank						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.44	9.72	19.4		SUR 13C2-PFHxA	115	70 - 130	
PFHpA	ND	3.11	9.72	19.4		SUR 13C2-PFDA	117	70 - 130	
PFHxS	2.04	1.72	9.72	19.4	J				
PFOA	9.15	4.15	9.72	19.4	J				
PFNA	ND	3.39	9.72	19.4					
PFOS	7.54	1.91	9.72	19.4	J				

DL - Detection limit  
 RL - Reporting limit

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

**LFSM Results**

**EPA Method 537**

Source Client ID: RW02-20170501	QC Batch: B7D0150	Lab Sample: B7D0150-MS1/B7D0150-MSD1
Source LabNumber: 1700550-01	Date Extracted: 03-May-2017 8:23	Date Analyzed: 10-May-17 09:11 Column: BEH C18
Matrix: Drinking Water		10-May-17 09:24 Column: BEH C18
Sample Size: 0.264/0.255 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	MSD RPD	MSD Qual.	%R Limit	%RPD Limit	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
PFBS	16.7	121		17.3	125	3.25		70 - 130	30	SUR 13C2-PFHxA	110		109	
PFHpA	18.9	93.7		19.6	89.5	4.59	J	70 - 130	30	SUR 13C2-PFDA	82.0		89.4	
PFHxS	17.3	123		17.9	126	2.41		70 - 130	30					
PFOA	18.9	78.5		19.6	73.6	6.44		70 - 130	30					
PFNA	18.9	90.0	J	19.6	87.6	2.70	J	70 - 130	30					
PFOS	17.5	101		18.1	98.0	3.02		70 - 130	30					

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.  
Only the linear isomer is reported for all other analytes.

**Sample ID: FRB02-20170501** **EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-02	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.258 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 10:20			Date Analyzed:	08-May-17 13:32	Column:	BEH C18
Location:	Pump Room						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.43	9.69	19.4		SUR 13C2-PFHxA	103	70 - 130	
PFHpA	ND	3.10	9.69	19.4		SUR 13C2-PFDA	106	70 - 130	
PFHxS	ND	1.72	9.69	19.4					
PFOA	ND	4.14	9.69	19.4					
PFNA	ND	3.38	9.69	19.4					
PFOS	ND	1.90	9.69	19.4					

DL - Detection limit  
 RL - Reporting limit

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

**Sample ID: RW12-20170501** **EPA Method 537**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Tetra Tech	Matrix: Drinking Water	Lab Sample: 1700550-03      Date Received: 02-May-2017 11:30
Project: NAWC Trenton, NJ	Sample Size: 0.263 L	QC Batch: B7D0150      Date Extracted: 03-May-2017 8:23
Date Collected: 01-May-2017 11:45		Date Analyzed: 08-May-17 13:45      Column: BEH C18
Location: Pressure Tank		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.39	9.51	19.0		SUR 13C2-PFHxA	109	70 - 130	
PFHpA	ND	3.04	9.51	19.0		SUR 13C2-PFDA	114	70 - 130	
PFHxS	7.16	1.68	9.51	19.0	J				
PFOA	4.13	4.06	9.51	19.0	J				
PFNA	5.08	3.32	9.51	19.0	J				
PFOS	11.0	1.86	9.51	19.0	J				

DL - Detection limit  
 RL - Reporting limit

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

**Sample ID: FRB12-20170501** **EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-04	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.265 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 11:40			Date Analyzed:	08-May-17 13:57	Column:	BEH C18
Location:	Pump Room						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.37	9.44	18.9		SUR 13C2-PFHxA	109	70 - 130	
PFHpA	ND	3.02	9.44	18.9		SUR 13C2-PFDA	108	70 - 130	
PFHxS	ND	1.67	9.44	18.9					
PFOA	ND	4.03	9.44	18.9					
PFNA	ND	3.30	9.44	18.9					
PFOS	ND	1.85	9.44	18.9					

DL - Detection limit  
 RL - Reporting limit

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

**Sample ID: RW13-20170501** **EPA Method 537**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-05	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.246 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 12:15			Date Analyzed:	08-May-17 14:09	Column:	BEH C18
Location:	Pressure Tank						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.56	10.2	20.4		SUR 13C2-PFHxA	96.4	70 - 130	
PFHpA	ND	3.26	10.2	20.4		SUR 13C2-PFDA	97.3	70 - 130	
PFHxS	ND	1.80	10.2	20.4					
PFOA	ND	4.35	10.2	20.4					
PFNA	ND	3.55	10.2	20.4					
PFOS	ND	2.00	10.2	20.4					

DL - Detection limit  
 RL - Reporting limit

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



**Sample ID: FRB13-20170501** **EPA Method 537**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Tetra Tech	Matrix: Blank Water	Lab Sample: 1700550-06      Date Received: 02-May-2017 11:30
Project: NAWC Trenton, NJ	Sample Size: 0.265 L	QC Batch: B7D0150      Date Extracted: 03-May-2017 8:23
Date Collected: 01-May-2017 12:10		Date Analyzed: 08-May-17 14:22      Column: BEH C18
Location: Pump Room		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.37	9.45	18.9		SUR 13C2-PFHxA	104	70 - 130	
PFHpA	ND	3.02	9.45	18.9		SUR 13C2-PFDA	104	70 - 130	
PFHxS	ND	1.67	9.45	18.9					
PFOA	ND	4.03	9.45	18.9					
PFNA	ND	3.30	9.45	18.9					
PFOS	ND	1.85	9.45	18.9					

DL - Detection limit  
 RL - Reporting limit

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

**Sample ID: RW13G-20170501**

**EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-07	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.260 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 12:35			Date Analyzed:	08-May-17 14:34	Column:	BEH C18
Location:	Pressure Tank						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.41	9.61	19.2		SUR 13C2-PFHxA	101	70 - 130	
PFHpA	3.71	3.08	9.61	19.2	J	SUR 13C2-PFDA	113	70 - 130	
PFHxS	13.3	1.70	9.61	19.2	J				
PFOA	9.16	4.10	9.61	19.2	J				
PFNA	4.85	3.35	9.61	19.2	J				
PFOS	14.9	1.88	9.61	19.2	J				

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FRB13G-20170501						EPA Method 537			
Client Data		Sample Data		Laboratory Data					
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-08	Date Received:	02-May-2017 11:30		
Project:	NAWC Trenton, NJ	Sample Size:	0.259 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23		
Date Collected:	01-May-2017 12:30			Date Analyzed:	08-May-17 14:47 Column: BEH C18				
Location:	Pump Room								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.42	9.66	19.3		SUR 13C2-PFHxA	106	70 - 130	
PFHpA	ND	3.09	9.66	19.3		SUR 13C2-PFDA	112	70 - 130	
PFHxS	ND	1.71	9.66	19.3					
PFOA	ND	4.12	9.66	19.3					
PFNA	ND	3.37	9.66	19.3					
PFOS	ND	1.89	9.66	19.3					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

**Sample ID: RW09-20170501** **EPA Method 537**

<b>Client Data</b> Name: Tetra Tech Project: NAWC Trenton, NJ Date Collected: 01-May-2017 15:45 Location: Pressure Tank	<b>Sample Data</b> Matrix: Drinking Water Sample Size: 0.266 L	<b>Laboratory Data</b> Lab Sample: 1700550-09      Date Received: 02-May-2017 11:30 QC Batch: B7D0150      Date Extracted: 03-May-2017 8:23 Date Analyzed: 08-May-17 15:02      Column: BEH C18
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Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	4.51	2.36	9.41	18.8	J	SUR 13C2-PFHxA	117	70 - 130	
PFHpA	ND	3.01	9.41	18.8		SUR 13C2-PFDA	121	70 - 130	
PFHxS	2.54	1.67	9.41	18.8	J				
PFOA	10.0	4.02	9.41	18.8	J				
PFNA	ND	3.28	9.41	18.8					
PFOS	5.96	1.84	9.41	18.8	J				

DL - Detection limit  
RL - Reporting limit

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

**Sample ID: FRB09-20170501** **EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-10	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.266 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 15:40			Date Analyzed:	08-May-17 15:15	Column:	BEH C18
Location:	Pump Room						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.36	9.41	18.8		SUR 13C2-PFHxA	117	70 - 130	
PFHpA	ND	3.01	9.41	18.8		SUR 13C2-PFDA	119	70 - 130	
PFHxS	ND	1.67	9.41	18.8					
PFOA	ND	4.02	9.41	18.8					
PFNA	ND	3.28	9.41	18.8					
PFOS	ND	1.84	9.41	18.8					

DL - Detection limit  
 RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit  
 Results reported to DL.  
 When reported, PFBS, 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>

**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
Nevada Division of Environmental Protection	CA004132017-1
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

## NELAP Accredited Test Methods

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

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

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

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

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



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



Submit by Email\*

FOR LABORATORY USE ONLY

Laboratory Project ID 1700550

Temp 5.0 °C

Storage ID WR-2

Storage Secured: Yes  No

# CHAIN OF CUSTODY RECORD

TAT: (Check One)

Standard  21 days

Rush (surcharge may apply)

14 days  7 days Specify:

Project I.D.: NANC Trenton

P.O. #: 1135710

Sampler: MK Bond

Invoice to: Name Accounts Payable Tetra Tech Company 661 Anderson Dr, Foster Plaza 7 Address Pittsburgh PA City 15220 State PA Zip 15220 Ph#  Fax #

Relinquished by: (Printed Name and Signature) Mary Kay Bond Date: 5/1/17 Time: 16:00 Received by: (Signature and Printed Name) Judith Koylton Date: 5/2/17 Time: 1148

Relinquished by: (Printed Name and Signature) Mary Kay Bond Date: 5/1/17 Time: 16:00 Received by: (Signature and Printed Name) Judith Koylton Date: 5/2/17 Time: 1148

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

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

Method of Shipment: Fed Ex

Add Analysis(es) Requested

ATTN: Sample Custodian

Tracking No.: 810981539130

Container(s)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDF	2378-TCDF/TCDF	2378-TCDF	TCDF/PCDF	2378-TCDF	2378-TCDF/TCDF	PCDF/PCDF	TOTALS	COPLANAR PCBs	HCB CONGENERS	PCDFs	PAH	WHO-29	EPA 537	DC MS/MSD	
RW02-20170501	5/1/17	10:25	Pressure Tank	6	P	DW																	
FRB02-20170501	5/1/17	10:20	Pump Room	2	P	BLK																	
RW12-20170501	5/1/17	11:45	Pressure Tank	2	P	DW																	
FRB12-20170501	5/1/17	11:40	Pump Room	2	P	BLK																	
RW13-20170501	5/1/17	12:15	Pressure Tank	2	P	DW																	
FRB13-20170501	5/1/17	12:10	Pump Room	2	P	BLK																	
RW136-20170501	5/1/17	12:35	Pressure Tank	2	P	DW																	
FRB136-20170501	5/1/17	12:30	Pump Room	2	P	BLK																	
RW09-20170501	5/1/17	15:45	Pressure Tank	2	P	DW																	
FRB09-20170501	5/1/17	15:40	Pump Room	2	P	BLK																	

Special Instructions/Comments:

SEND DOCUMENTATION AND RESULTS TO:

Name: Mary Mang  
Company: Tetra Tech  
Address: 234 Nail Blvd Suite 260  
City: King of Prussia State: PA Zip: 19406  
Phone: 610.382.1174 Fax: 610.491.9045  
Email: Mary.mang@tetratech.com  
Matrix Types: DW = Drinking Water, E = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other

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

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

**SAMPLE LOG-IN CHECKLIST**



Vista Project #: 1700550 TAT 7

<b>Samples Arrival:</b>	<b>Date/Time:</b> 5/2/17 1133	<b>Initials:</b> SR	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> N/A
<b>Logged In:</b>	<b>Date/Time:</b> 05/02/17 1310	<b>Initials:</b> WWS	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> E-6
<b>Delivered By:</b>	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
	<input type="radio"/> Other		
<b>Preservation:</b>	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
<b>Temp °C:</b> 4.7 (uncorrected)	<b>Time:</b> 1146	<b>Thermometer ID:</b> IR-1	
<b>Temp °C:</b> 5.0 (corrected)	<b>Probe used:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk #	8109 8153 9130		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?	✓		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	✓		
Preservation Documented:	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<input checked="" type="radio"/> Yes	<input type="radio"/> No
	Trizma COC		NA
Shipping Container	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input checked="" type="radio"/> Retain
		<input type="radio"/> Return	<input type="radio"/> Dispose

*Comments: sample labels:*

WWS 5/2/17 RW02 - 20170501 (6 bottles)

WWS 5/2/17 \*FRB-02 - 20170501 (2 bottles)

WWS 5/2/17 RW12 - 20170501 (2 bottles)

WWS 5/2/17 \*FRB-12 - 20170501 (2 bottles)

\*FRB12 - 20170501 (2 bottles)

RW13 - 20170501 (2 bottles)

\*FRB02 - 20170501 (2 bottles)

\*FRB13 - 20170501 (2 bottles)

RW13G - 20170501 (2 bottles)

\*FRB13G - 20170501 (2 bottles)

RW09 - 20170501 (2 bottles) (B bottle has color present)

\*FRB09 - 20170501 (2 bottles)

COC label: FRB09 - 20170501

\* no trizma

L:\QA\Forms\sample control\Sample LoginNov-2016 (IR-1) F11.1  
 L:\Controlled Forms\Sample LoginNov-2016 (IR-1) F11.1

# Chain of Custody Anomaly/Sample Acceptance Form



Client: Tetra Tech  
 Contact: Mary Mang  
 Email: mary.mang@tetratech.com  
 Phone: 610-382-1174

Workorder Number: 1700550  
 Date Received: 02-May-17 11:30  
 Documented by/date: B.Benedict 05/02/2017

Please review the following information and complete the Client Authorization section. To comply with NELAP regulations, we must receive authorization before proceeding with sample analysis.

Thank you,

Martha Maier  
 mmaier@vista-analytical.com  
 916-673-1520

**The following information or item is needed to proceed with analysis:**

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Complete Chain-of-Custody   | <input type="checkbox"/> Preservative                       | <input type="checkbox"/> Collector's Name |
| <input type="checkbox"/> Test Method Requested   | <input type="checkbox"/> Sample Identification              | <input type="checkbox"/> Sample Type      |
| <input type="checkbox"/> Analyte List Requested  | <input type="checkbox"/> Sample Collection Date and/or Time | <input type="checkbox"/> Sample Location  |
| <input checked="" type="checkbox"/> Other: Sample "RW09-20170501" received A/B bottle. One bottle of the two received for this sample has color present. |   |   |

**The following anomalies were noted. Authorization is needed to proceed with analysis.**

- |   |   |     |    |        |
|---|---|-----|----|--------|
| <input type="checkbox"/> Temperature outside < 6°C Range                | Samples Affected: _____                             |     |    |        |
| Temperature _____ °C  | Ice Present?  | Yes | No | Melted |
| <input checked="" type="checkbox"/> Sample ID Discrepancy; See Comments | <input type="checkbox"/> Insufficient Sample Size   |     |    |        |
| <input type="checkbox"/> Sample Holding Time Missed                     | <input type="checkbox"/> Sample Container(s) Broken |     |    |        |
| <input type="checkbox"/> Custody Seals Broken                           | <input type="checkbox"/> Incorrect Container Type   |     |    |        |

**Comments:**

COC ID: **FBB09-20170501**      Label ID: **FRB09-20170501**

**Client Authorization**

Proceed with Analysis:  YES     NO      Signature and Date: Rahen Jazzy 5-4-2017

Client Comments/Instructions: Per client email, analyze clear bottle first for sample RW09-20170501. The FRB sample ID is FRB09-20170501.

## **EXTRACTION INFORMATION**

Process Sheet  
 Workorder: **1700550**



Prep Expiration: 2017-May-15  
 Client: Tetra Tech

Workorder Due: 08-May-17 00:00

TAT: 6

Method: 537 PFAS DW DoD Unmodified  
 Matrix: Drinking Water

Prep Batch: B7D0150

Prep Data Entered: BP S.4.17  
Date and Initials

Initial Sequence: STE0012

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700550-01	<input checked="" type="checkbox"/>	RW02-20170501	02-May-17 11:30	WR-2 E-6	MS/MSD
1700550-02	<input checked="" type="checkbox"/>	FRB02-20170501	02-May-17 11:30	WR-2 E-6	
1700550-03	<input checked="" type="checkbox"/>	RW12-20170501	02-May-17 11:30	WR-2 E-6	
1700550-04	<input checked="" type="checkbox"/>	FRB12-20170501	02-May-17 11:30	WR-2 E-6	
1700550-05	<input checked="" type="checkbox"/>	RW13-20170501	02-May-17 11:30	WR-2 E-6	
1700550-06	<input checked="" type="checkbox"/>	FRB13-20170501	02-May-17 11:30	WR-2 E-6	
1700550-07	<input checked="" type="checkbox"/>	RW13G-20170501	02-May-17 11:30	WR-2 E-6	
1700550-08	<input checked="" type="checkbox"/>	FRB13G-20170501	02-May-17 11:30	WR-2 E-6	
1700550-09	<input checked="" type="checkbox"/>	RW09-20170501	02-May-17 11:30	WR-2 E-6	
1700550-10	<input checked="" type="checkbox"/>	FBB09-20170501	02-May-17 11:30	WR-2 E-6	

WO Comments: **QSM 5.0**  
 Attach balance check doc.

Vista PM: Martha Maier

Vial Box ID: Presently Surpiced

Sample Reconciled By: HP 5/3/17

Batch: B7D0150

Matrix: Drinking Water

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1700529-01	0.25	NA	NA	1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-01	0.25719 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-02	0.25799 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-03	0.26282 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-04	0.26475 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-05	0.24554 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-06	0.26467 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-07	0.26009 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-08	0.25888 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-09	0.26564 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-10	0.26575 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
B7D0150-BLK1	0.25 ✓			1000	03-May-17 08:23	BAP				QC
B7D0150-BS1	0.25 ✓			1000	03-May-17 08:23	BAP	17D1901 ✓	20 ✓		QC
B7D0150-BS2	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	10 ✓		QC
B7D0150-BS3	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	20 ✓		QC
B7D0150-BS4	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	20 ✓		QC
B7D0150-BS5	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	20 ✓		QC
B7D0150-MS1	0.26389 ✓			1000	03-May-17 08:23	BAP	17D190 ✓	20 ✓		QC
B7D0150-MSD1	0.25542 ✓			1000	03-May-17 08:23	BAP	17D1901 ✓	20 ✓		QC

BP S.4.17

PREPARATION BENCH SHEET

Matrix: Drinking Water

Method: 537 PFAS DW DoD Unmodified

B7D0150

Chemist: BP

Prep Date/Time: 03-May-17 08:23

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	1700550-08	285.46	26.58	0.25888	BP 4/5/17	BP S.3.17	BP 4/5/17
<input type="checkbox"/>	1700550-09	292.29	26.65	0.26564	↓	↓	↓
<input type="checkbox"/>	1700550-10	293.51	27.76	0.26575	↓	↓	↓

IS Name <u>17D1701, 50uL</u> (03)	NS Name <u>(A) 17D1901, 20uL</u> <u>(B) 17E0224, 10uL</u> <u>(C) 17E0224, 20uL</u>	RS Name <u>17D1706, 50uL</u> (03)	SPE Chem: <u>strata-X 33um 500mg/6uL</u>	Check Out: <u>5/2/17-HB</u>
			Ele SOLV: <u>MeOH</u>	Check In: <u>NA</u>
			Final Volume(s) <u>1mL</u>	Balance ID: <u>HRMSB</u>

Comments: Assume 1 g = 1 mL



EZH

PREPARATION BENCH SHEET

Matrix: Drinking Water

Method: 537 PFAS DW DoD Unmodified

B7D0150

Chemist: BP

Prep Date/Time: 03-May-17 08:23

Prepared using: LCMS - SPE Extraction-LCMS

C7FOOIS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B7D0150-BLK1	NA	NA	(0.250)	BP 5/3/17	BP S. 3.17	BP 5/4/17
<input type="checkbox"/>	B7D0150-BS1						
<input type="checkbox"/>	B7D0150-BS2						
<input type="checkbox"/>	B7D0150-BS3						
<input type="checkbox"/>	B7D0150-BS4						
<input type="checkbox"/>	B7D0150-BS5						
<input type="checkbox"/>	B7D0150-MS1 1700529-01	291.98	28.09	0.26389			
<input type="checkbox"/>	B7D0150-MSD1 1700529-01	282.42	27.00	0.25542			
<input type="checkbox"/>	1700529-01						
<input type="checkbox"/>	1700550-01	284.22	27.03	0.25719	BP 5/3/17	BP S 3 17	BP 5/4/17
<input type="checkbox"/>	1700550-02	285.92	27.93	0.25799			
<input type="checkbox"/>	1700550-03	289.49	26.67	0.26282			
<input type="checkbox"/>	1700550-04	292.48	27.73	0.26475			
<input type="checkbox"/>	1700550-05	272.40	26.86	0.24554			
<input type="checkbox"/>	1700550-06	291.42	26.75	0.26467			
<input type="checkbox"/>	1700550-07	296.72	26.63	0.26009			

BP 5-3-17

IS Name 1701704, 30uL ③	NS Name ① 1701901, 20uL ② 17E0224, 10uL ③ 17E0224, 10uL	RS Name 17D1706, 30uL ③	SPE Chem: strata-X 33um 500um Ele SOLV: MeOH Final Volume(s) 1 mL	Check Out: 5/3/17 HB Chemist/Date: Check In: NA Chemist/Date: Balance ID: HRMS0
-------------------------------	--	-------------------------------	---	---

Comments: Assume 1 g = 1 mL

① Added approximately 0.625g of trizmo to QCS HB 5/3/17

BALANCE CALIBRATION CHECK

Weights # 22370 and 7718

Date	<input checked="" type="checkbox"/> for Weight # verification	Weight 1 1 g (0.9900 - 1.0100)	Weight 2 100 g (99.00 - 101.00)	Weight 3 2000 g (1980 - 2020)	Initials	Acceptable? (Y/N)
5/2/17	✓	1.00	100.00	2000.01	HC	Y
5/2/17	✓	1.00	100.00	2000.00	MT	Y
5/3/17	✓	1.00	100.00	2000.00	DBF	Y
5/3/17	✓	1.00	100.01	2000.01	HB	Y
5/4/17	✓	1.00	100.01	2000.00	HB	Y
5/5/17	✓	1.01	100.00	2000.05	KBF	Y
5/6/17	✓	1.01	99.98	2000.03	HC	Y
5/8/17	✓	1.00	99.98	2000.00	DBF	Y
① 5/8/17	✓	1.01	100.00	2000.01	KBF	Y
5/9/17	✓	1.00	100.00	1999.99	KBF	Y
5/10/17	✓	1.00	100.01	2000.03	MD	Y

Comments: ① Recalibrated - balance wasn't quite level

**SAMPLE DATA –EPA METHOD 537**

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-16.qld

Last Altered: Monday, May 08, 2017 14:01:21 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:01:52 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-BLK1 LRB 0.25, Description: LRB, Name: 170508G1\_16, Date: 08-May-2017, Time: 13:06:48

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		9.665e3		0.250			
2	2 PFHpA	363 > 318.9		6.142e3		0.250			
3	3 PFHxS	398.9 > 79.6		9.665e3		0.250			
4	4 PFOA	413 > 368.7		6.142e3		0.250			
5	5 PFOS	499 > 79.9		9.665e3		0.250			
6	6 PFNA	463 > 418.8		6.142e3		0.250			
7	7 13C2-PFHxA	315.0 > 269.8	2.537e3	6.142e3	0.401	0.250	3.28	41.2	103
8	8 13C2-PFDA	515.1 > 469.9	4.702e3	6.142e3	0.748	0.250	4.74	40.9	102
9	9 13C2-PFOA	414.9 > 369.7	6.142e3	6.142e3	1.000	0.250	4.14	40.0	100
10	10 13C4-PFOS	503.0 > 79.9	9.665e3	9.665e3	1.000	0.250	4.53	115	100

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-16.qld

Last Altered: Monday, May 08, 2017 14:01:21 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:01:52 Pacific Daylight Time

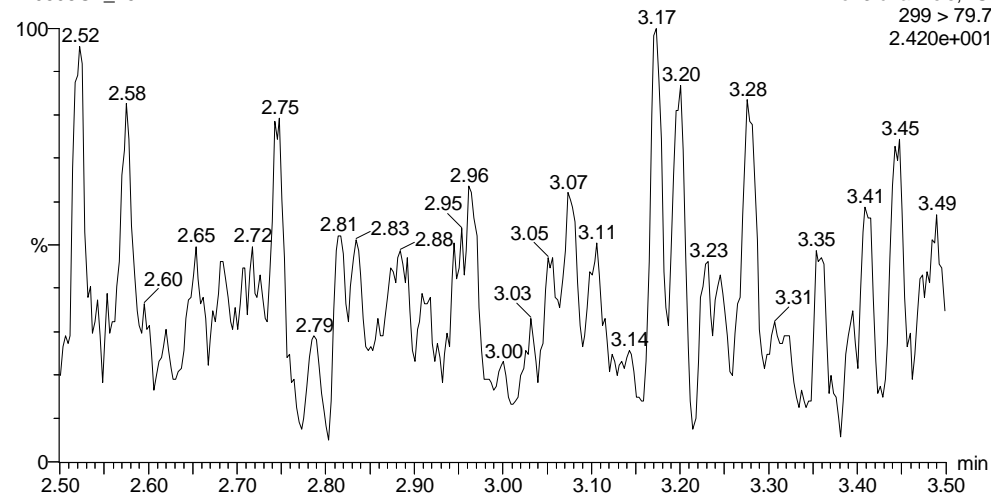
Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-BLK1 LRB 0.25, Description: LRB, Name: 170508G1\_16, Date: 08-May-2017, Time: 13:06:48, Instrument: , Lab: , User:

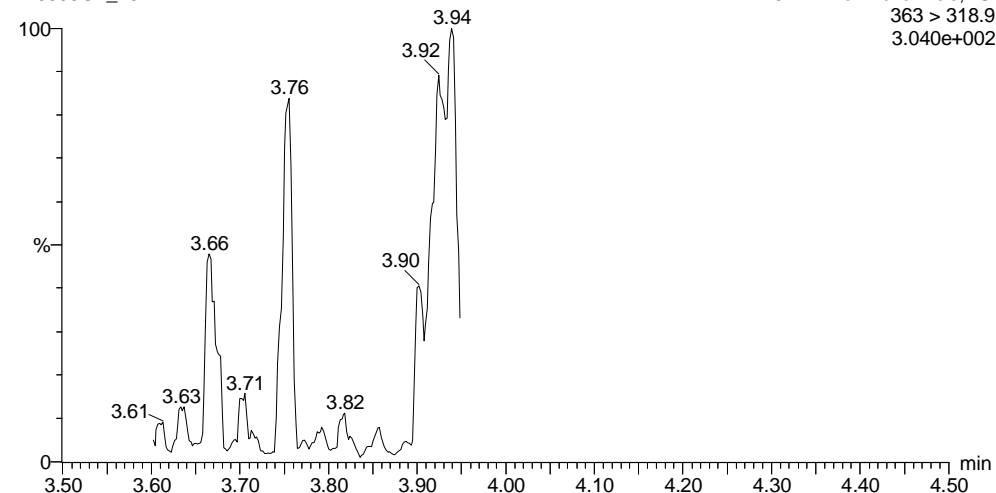
**PFBS**

170508G1\_16



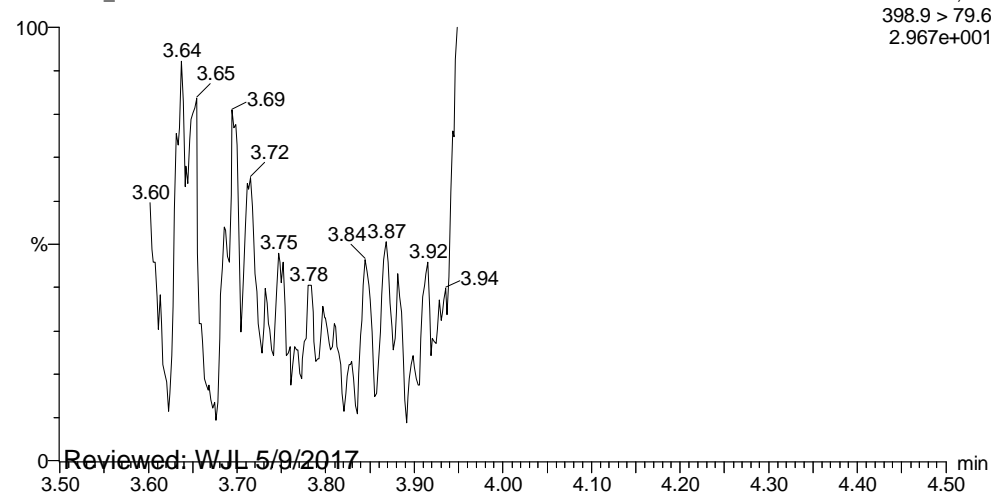
**PFHpA**

170508G1\_16



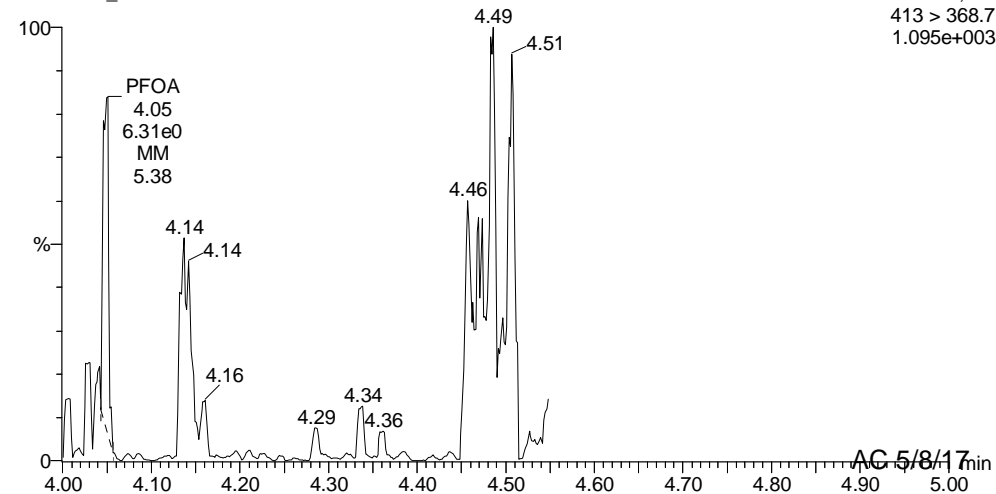
**PFHxS**

170508G1\_16



**PFOA**

170508G1\_16



Reviewed: WJL 5/9/2017

AC 5/8/17 min

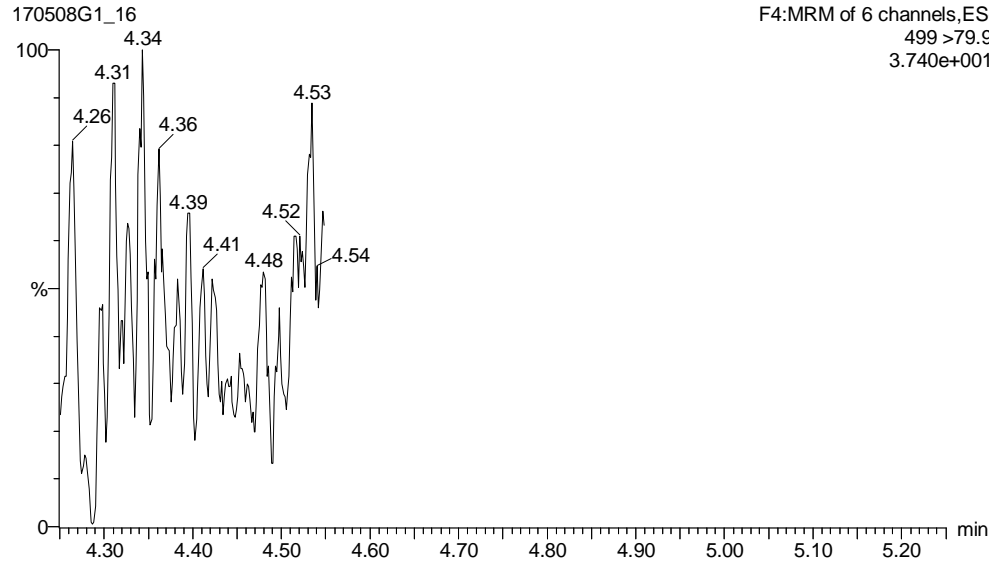
Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-16.qld

Last Altered: Monday, May 08, 2017 14:01:21 Pacific Daylight Time

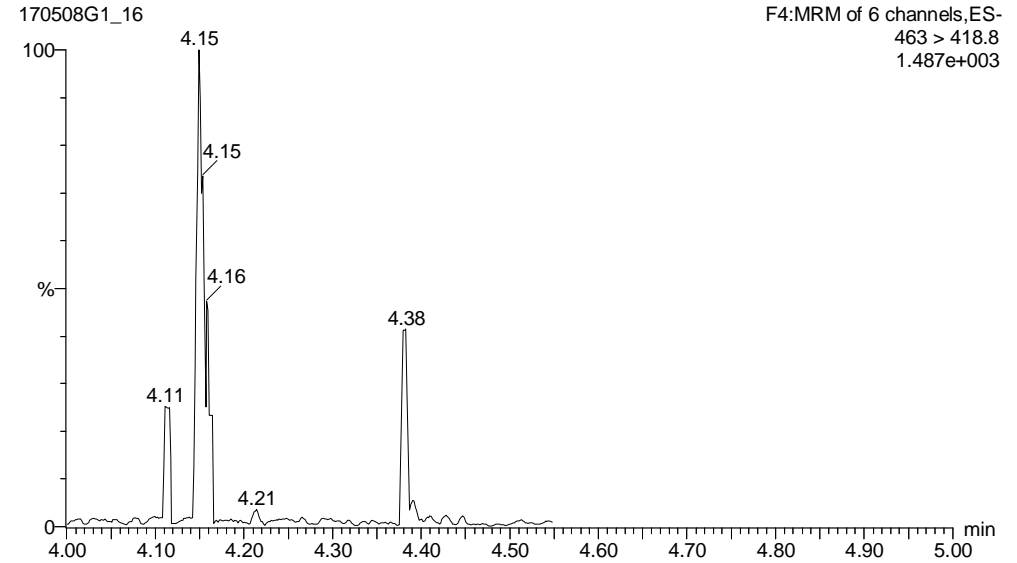
Printed: Monday, May 08, 2017 14:01:52 Pacific Daylight Time

ID: B7D0150-BLK1 LRB 0.25, Description: LRB, Name: 170508G1\_16, Date: 08-May-2017, Time: 13:06:48, Instrument: , Lab: , User:

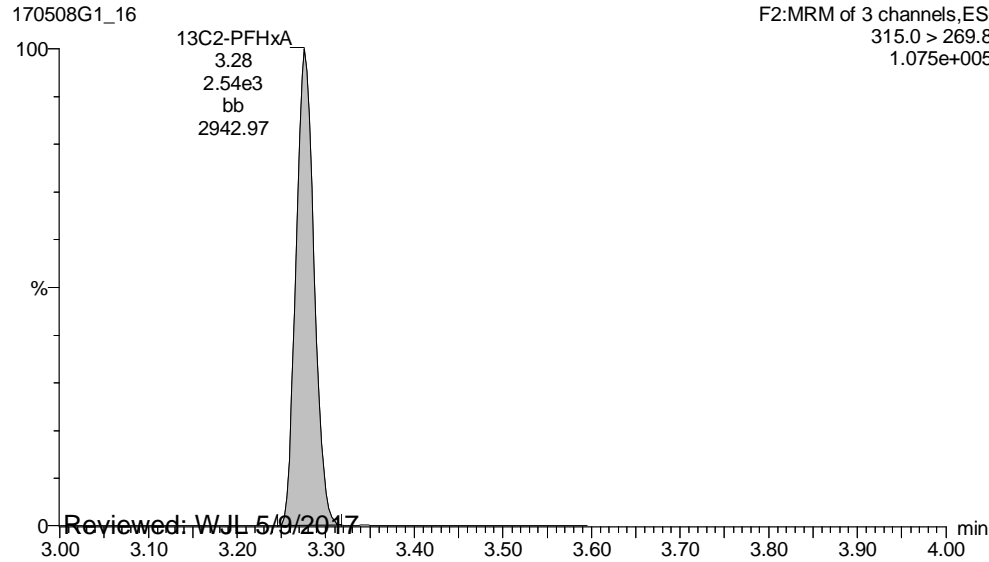
**PFOS**



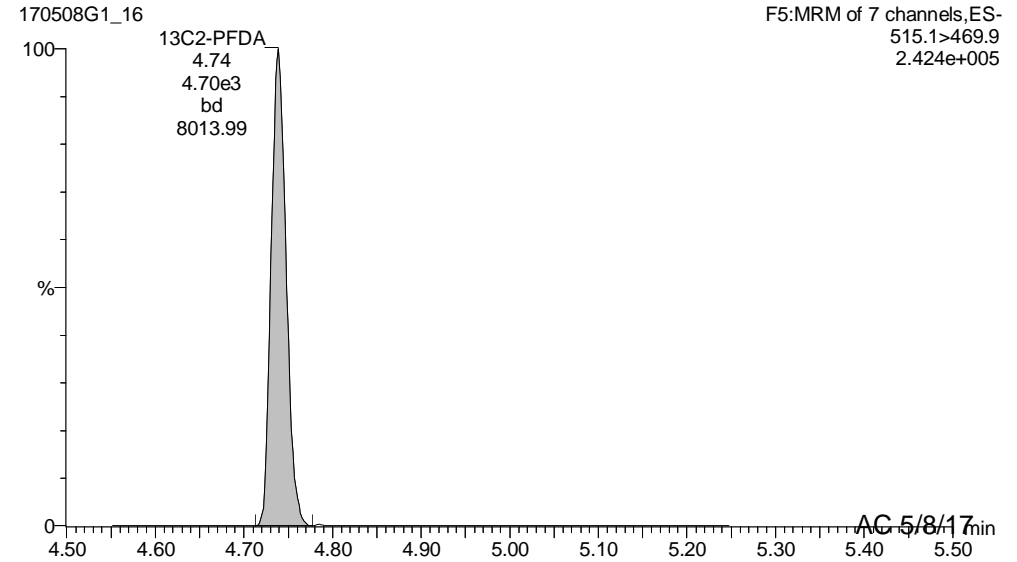
**PFNA**



**13C2-PFHxA**



**13C2-PFDA**



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-16.qld

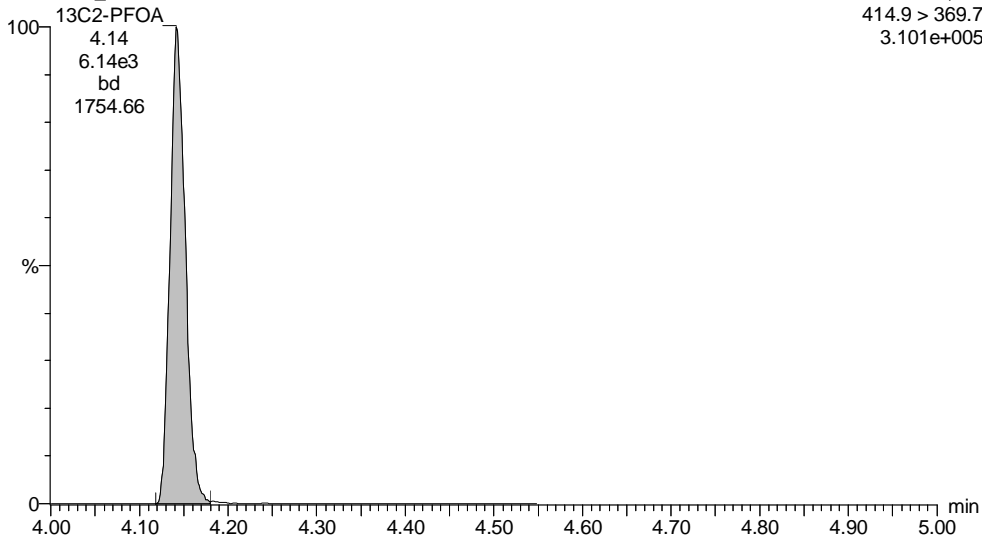
Last Altered: Monday, May 08, 2017 14:01:21 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:01:52 Pacific Daylight Time

ID: B7D0150-BLK1 LRB 0.25, Description: LRB, Name: 170508G1\_16, Date: 08-May-2017, Time: 13:06:48, Instrument: , Lab: , User:

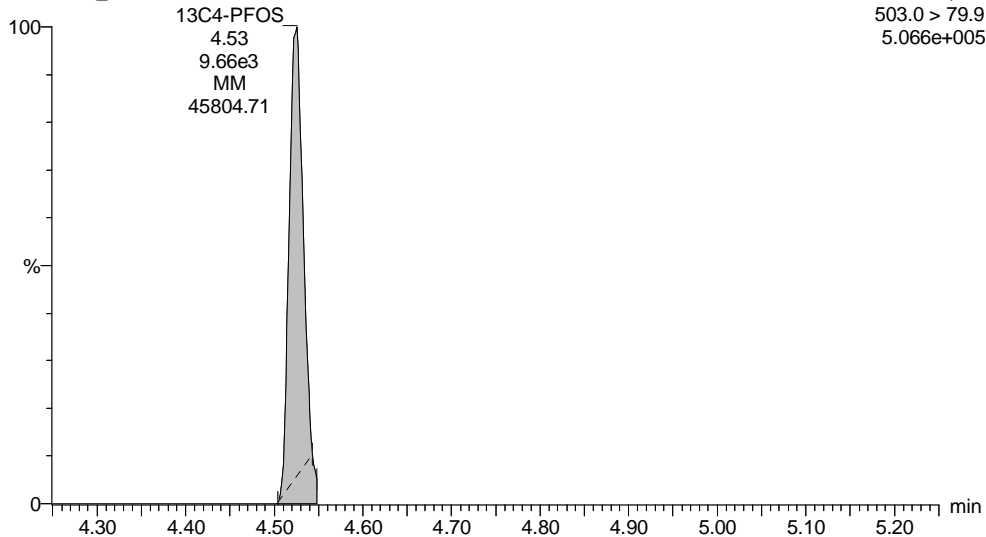
**13C2-PFOA**

170508G1\_16



**13C4-PFOS**

170508G1\_16



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-14.qld

Last Altered: Monday, May 08, 2017 13:55:40 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:57:11 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-BS1 LFB 0.25, Description: LFB, Name: 170508G1\_14, Date: 08-May-2017, Time: 12:42:00

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.345e3	8.077e3		0.250	2.92	18.7	106
2	2 PFHpA	363 > 318.9	3.029e3	5.566e3		0.250	3.76	20.5	102
3	3 PFHxS	398.9 > 79.6	1.533e3	8.077e3		0.250	3.87	18.1	99.1
4	4 PFOA	413 > 368.7	2.436e3	5.566e3		0.250	4.14	21.7	109
5	5 PFOS	499 > 79.9	5.509e2	8.077e3		0.250	4.52	22.3	120
6	6 PFNA	463 > 418.8	4.355e3	5.566e3		0.250	4.47	20.1	100
7	7 13C2-PFHxA	315.0 > 269.8	2.213e3	5.566e3	0.401	0.250	3.28	39.7	99.1
8	8 13C2-PFDA	515.1 > 469.9	4.215e3	5.566e3	0.748	0.250	4.74	40.5	101
9	9 13C2-PFOA	414.9 > 369.7	5.566e3	5.566e3	1.000	0.250	4.14	40.0	100
10	10 13C4-PFOS	503.0 > 79.9	8.077e3	8.077e3	1.000	0.250	4.53	115	100



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-14.qld

Last Altered: Monday, May 08, 2017 13:55:40 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:57:11 Pacific Daylight Time

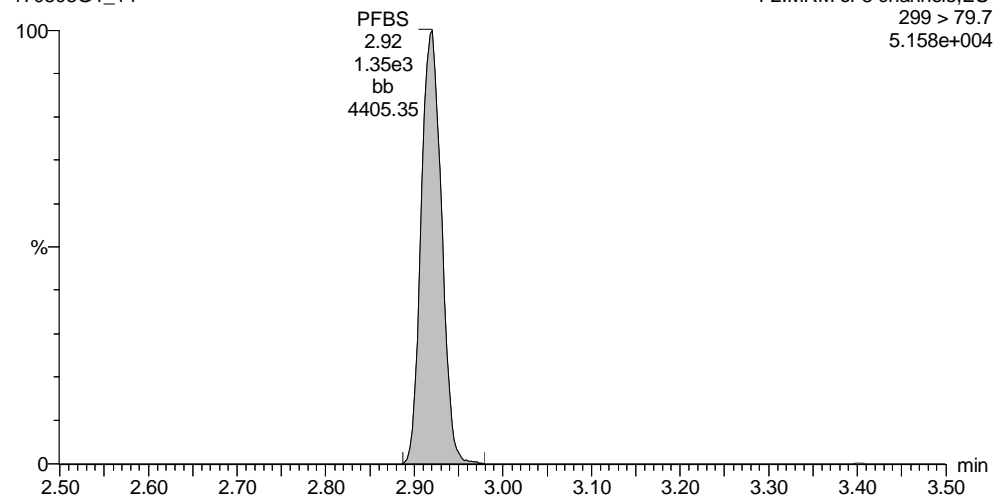
Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-BS1 LFB 0.25, Description: LFB, Name: 170508G1\_14, Date: 08-May-2017, Time: 12:42:00, Instrument: , Lab: , User:

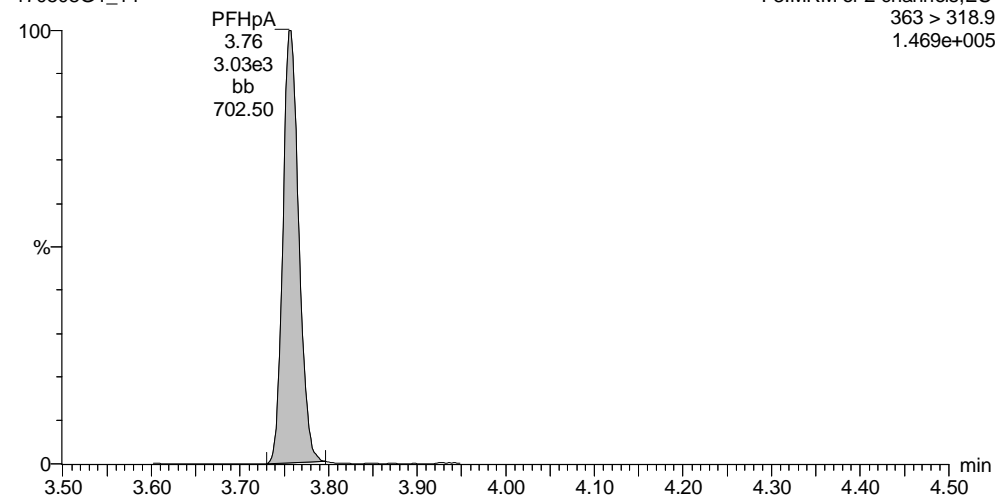
**PFBS**

170508G1\_14



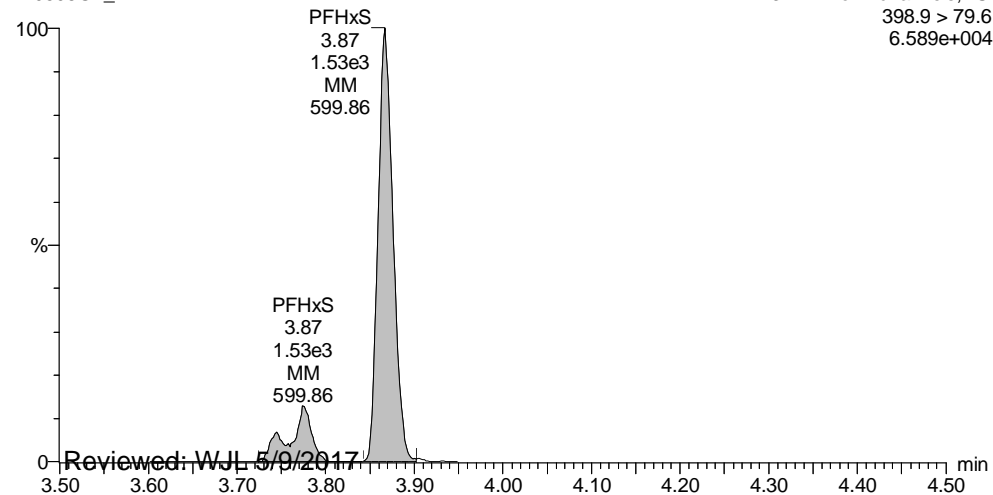
**PFHpA**

170508G1\_14



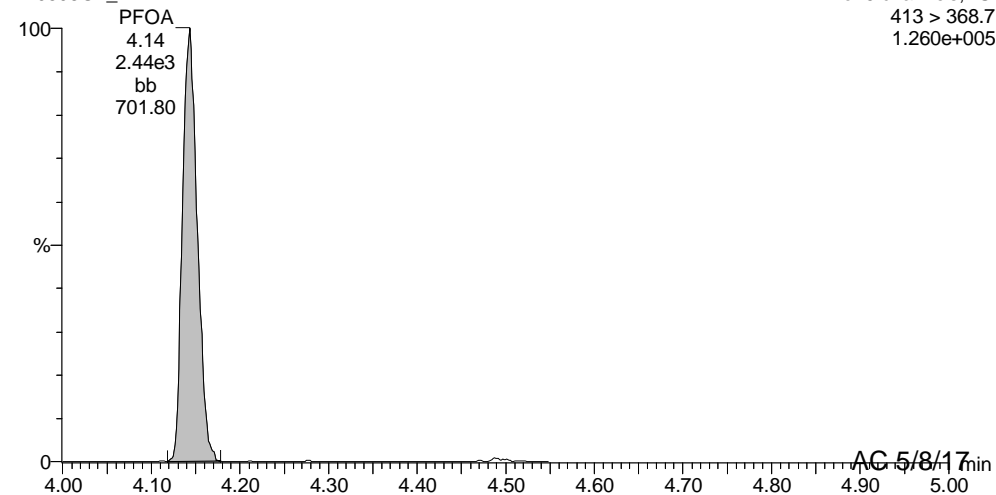
**PFHxS**

170508G1\_14



**PFOA**

170508G1\_14



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-14.qld

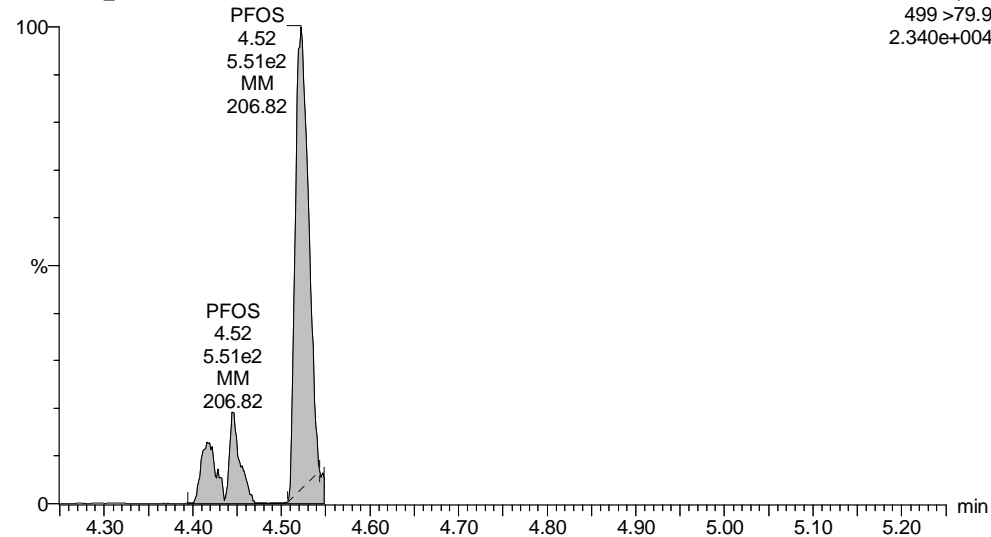
Last Altered: Monday, May 08, 2017 13:55:40 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:57:11 Pacific Daylight Time

ID: B7D0150-BS1 LFB 0.25, Description: LFB, Name: 170508G1\_14, Date: 08-May-2017, Time: 12:42:00, Instrument: , Lab: , User:

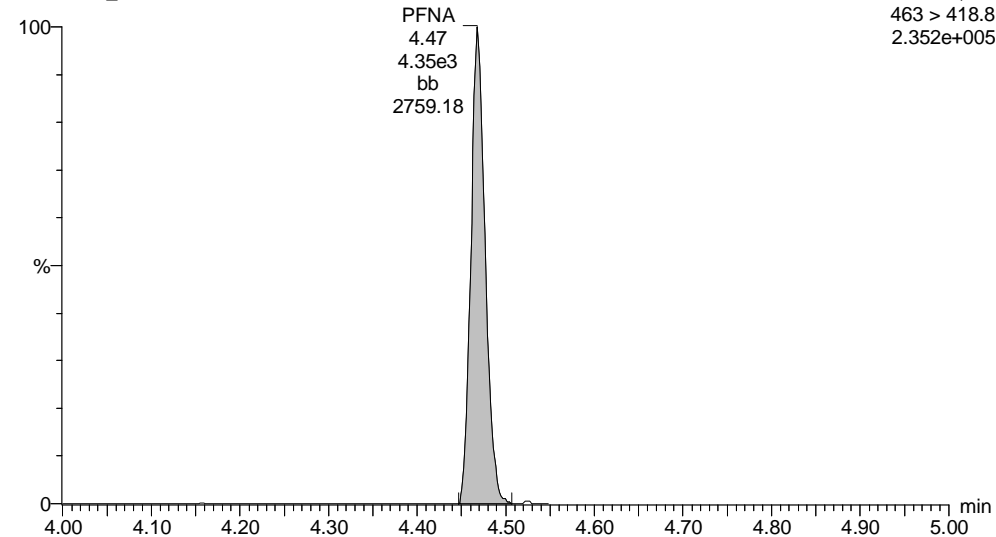
**PFOS**

170508G1\_14



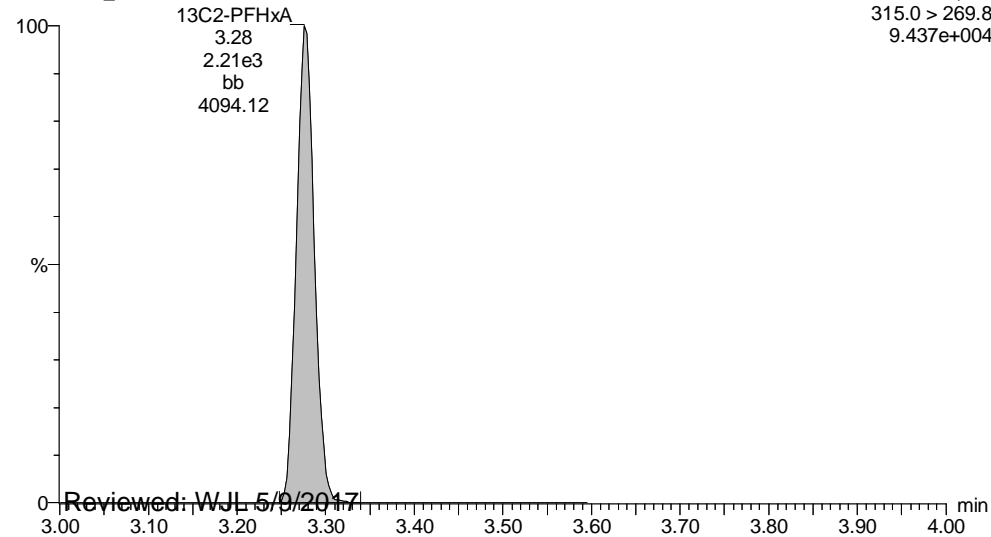
**PFNA**

170508G1\_14



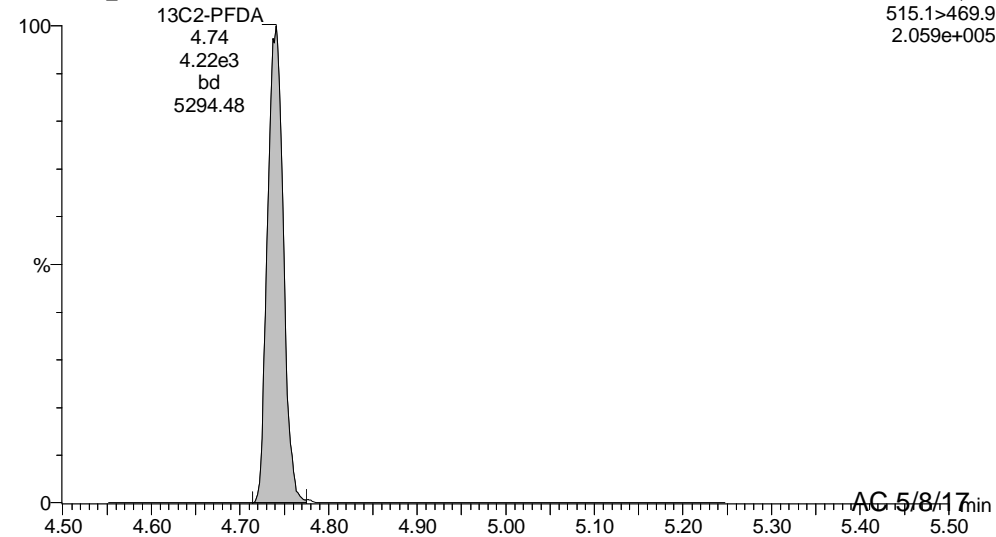
**13C2-PFHxA**

170508G1\_14



**13C2-PFDA**

170508G1\_14



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-14.qld

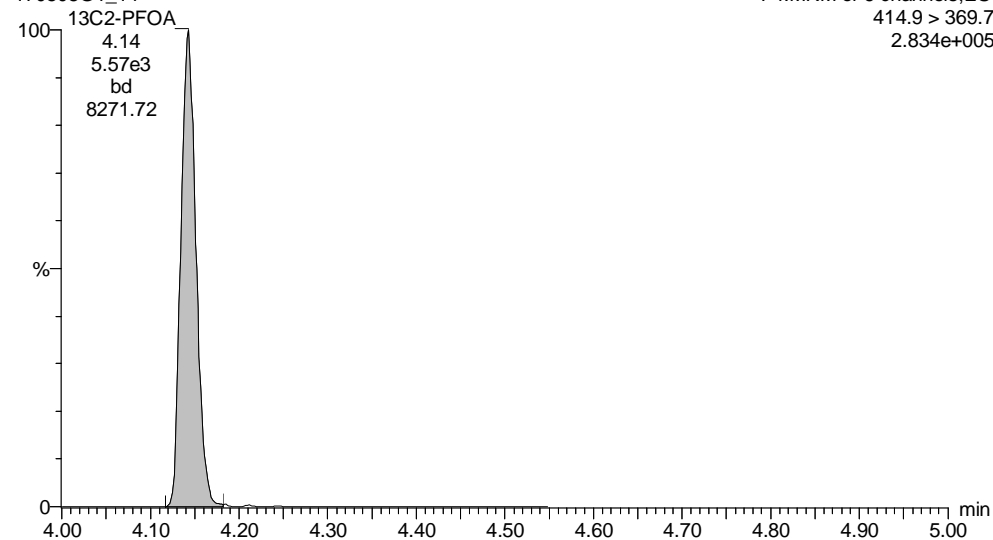
Last Altered: Monday, May 08, 2017 13:55:40 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:57:11 Pacific Daylight Time

ID: B7D0150-BS1 LFB 0.25, Description: LFB, Name: 170508G1\_14, Date: 08-May-2017, Time: 12:42:00, Instrument: , Lab: , User:

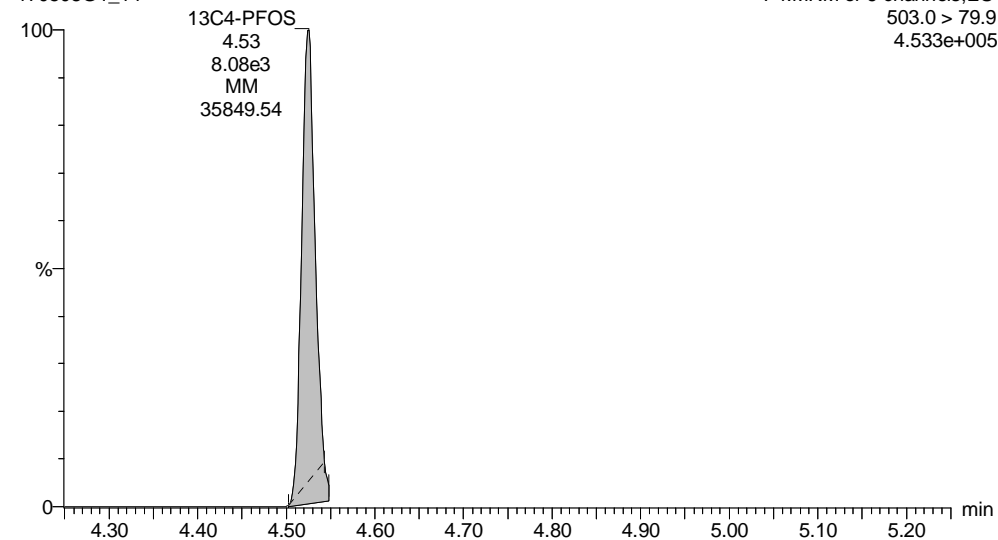
**13C2-PFOA**

170508G1\_14



**13C4-PFOS**

170508G1\_14



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-17.qld

Last Altered: Monday, May 08, 2017 14:17:50 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:18:18 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-01 RW02-20170501 0.25719, Description: RW02-20170501, Name: 170508G1\_17, Date: 08-May-2017, Time: 13:19:19

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.805e2	1.009e4		0.257	2.92	1.91	
2	2 PFHpA	363 > 318.9	2.706e2	5.936e3		0.257	3.76	1.63	
3	3 PFHxS	398.9 > 79.6	2.265e2	1.009e4		0.257	3.87	2.04	
4	4 PFOA	413 > 368.7	1.140e3	5.936e3		0.257	4.14	9.15	
5	5 PFOS	499 > 79.9	2.423e2	1.009e4		0.257	4.52	7.54	
6	6 PFNA	463 > 418.8	1.786e2	5.936e3		0.257	4.47	0.734	
7	7 13C2-PFHxA	315.0 > 269.8	2.729e3	5.936e3	0.401	0.257	3.28	44.6	115
8	8 13C2-PFDA	515.1 > 469.9	5.196e3	5.936e3	0.748	0.257	4.73	45.5	117
9	9 13C2-PFOA	414.9 > 369.7	5.936e3	5.936e3	1.000	0.257	4.14	38.9	100
10	10 13C4-PFOS	503.0 > 79.9	1.009e4	1.009e4	1.000	0.257	4.52	112	100

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-17.qld

Last Altered: Monday, May 08, 2017 14:17:50 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:18:18 Pacific Daylight Time

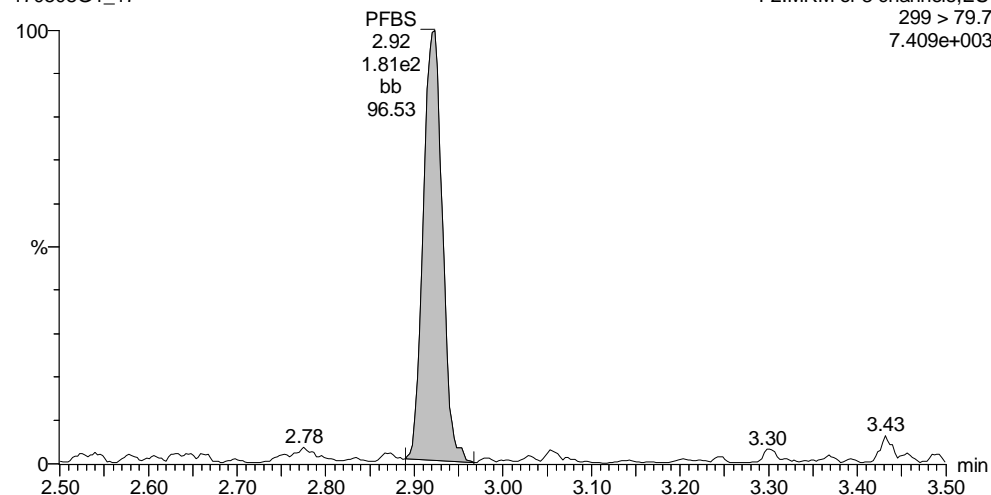
Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-01 RW02-20170501 0.25719, Description: RW02-20170501, Name: 170508G1\_17, Date: 08-May-2017, Time: 13:19:19, Instrument: , Lab: , User:

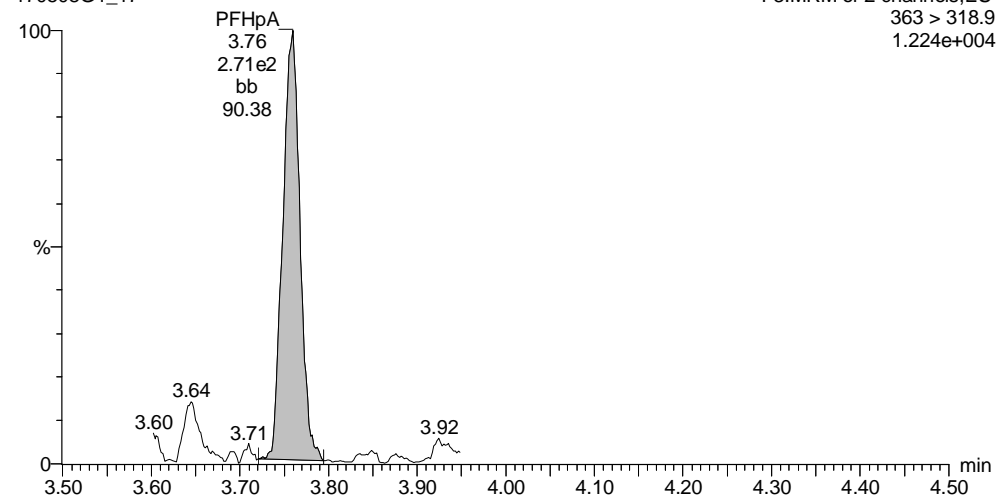
**PFBS**

170508G1\_17



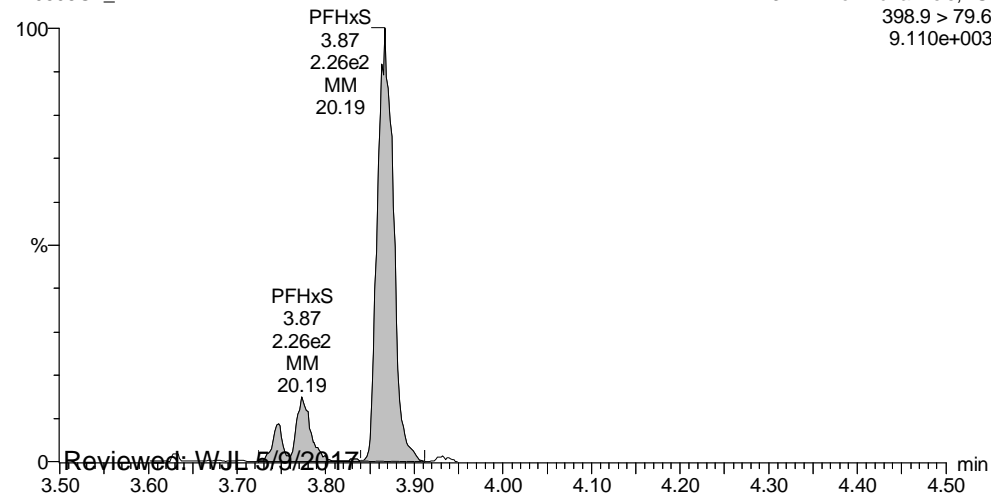
**PFHpA**

170508G1\_17



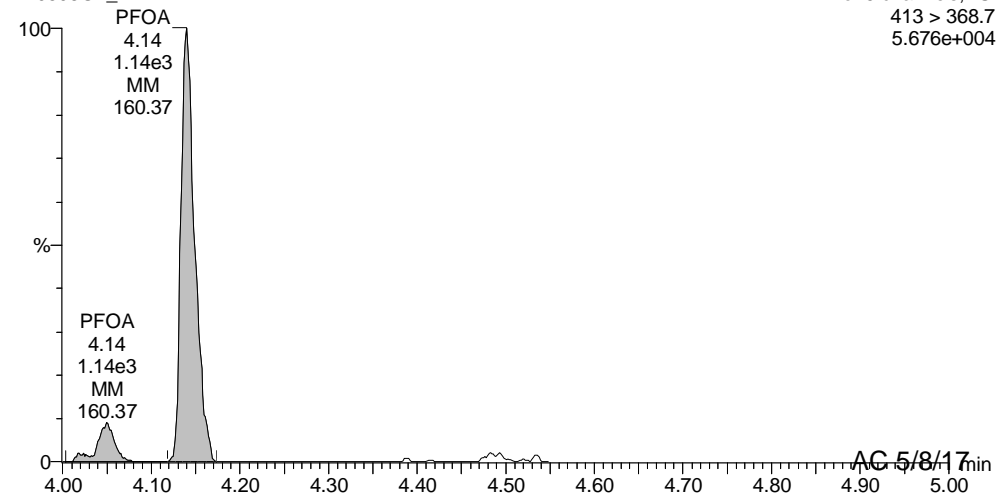
**PFHxS**

170508G1\_17



**PFOA**

170508G1\_17



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-17.qld

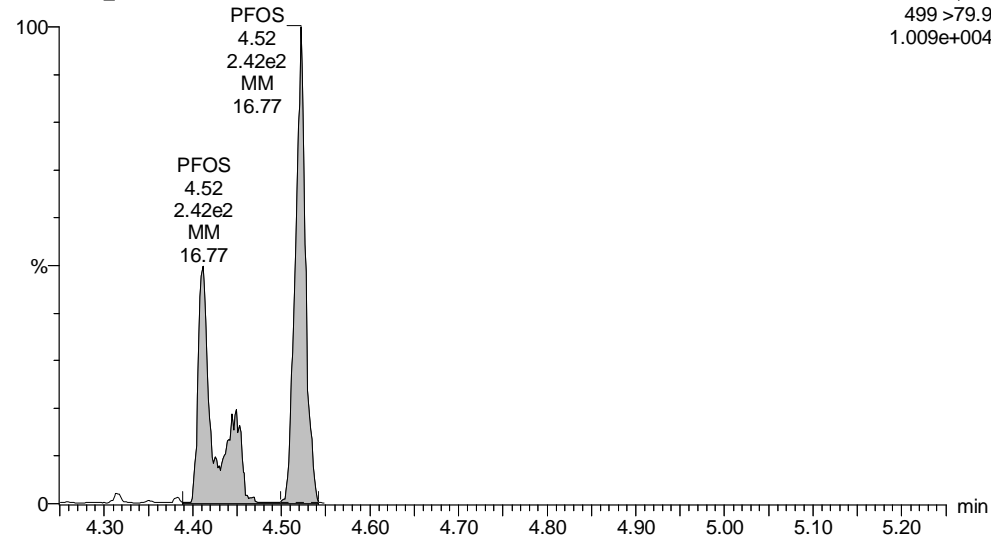
Last Altered: Monday, May 08, 2017 14:17:50 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:18:18 Pacific Daylight Time

ID: 1700550-01 RW02-20170501 0.25719, Description: RW02-20170501, Name: 170508G1\_17, Date: 08-May-2017, Time: 13:19:19, Instrument: , Lab: , User:

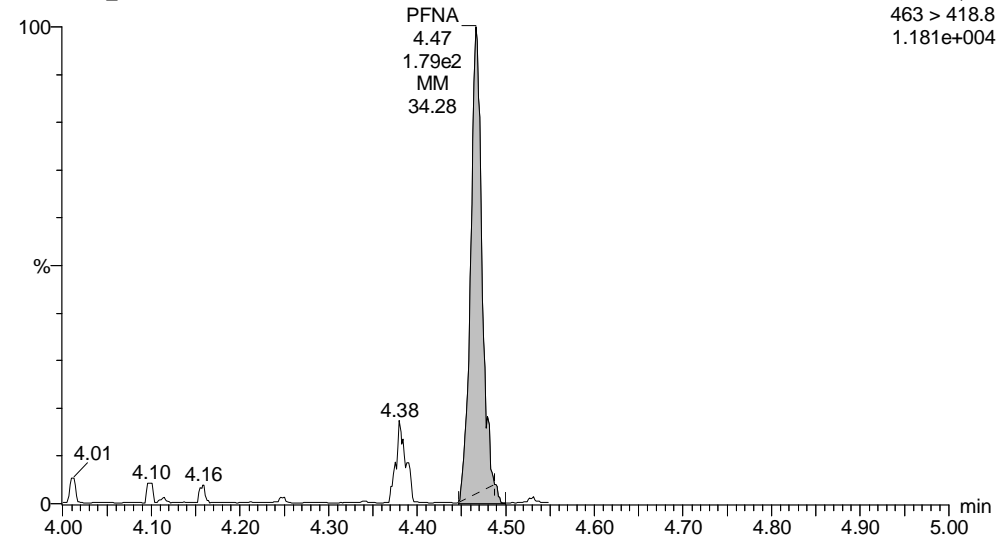
**PFOS**

170508G1\_17



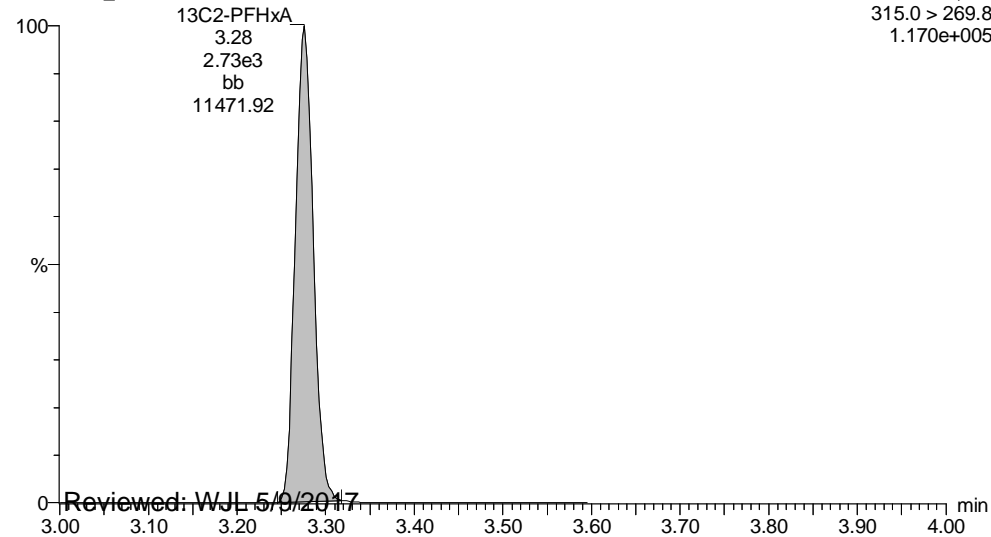
**PFNA**

170508G1\_17



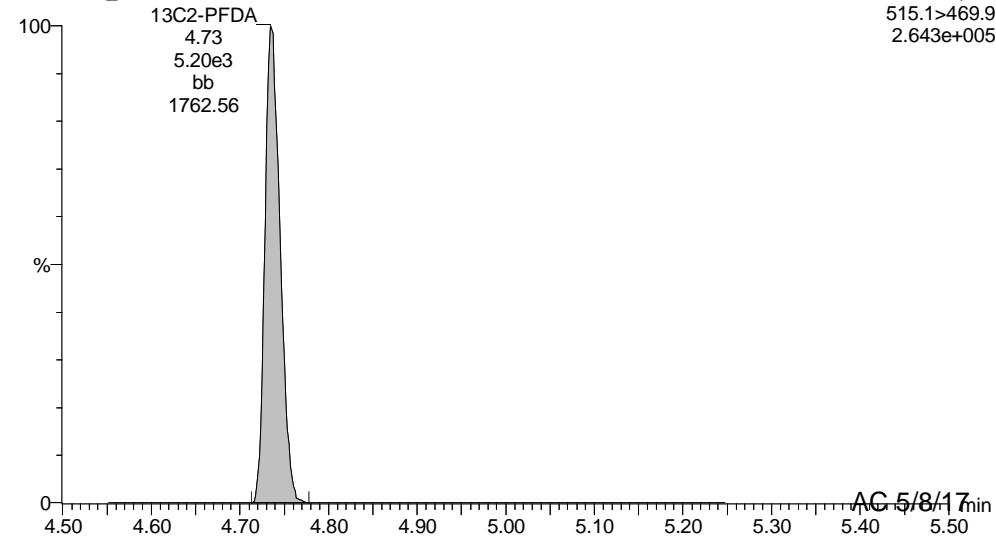
**13C2-PFHxA**

170508G1\_17



**13C2-PFDA**

170508G1\_17



Reviewed: WJL 5/9/2017

AC 5/8/17 min

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-17.qld

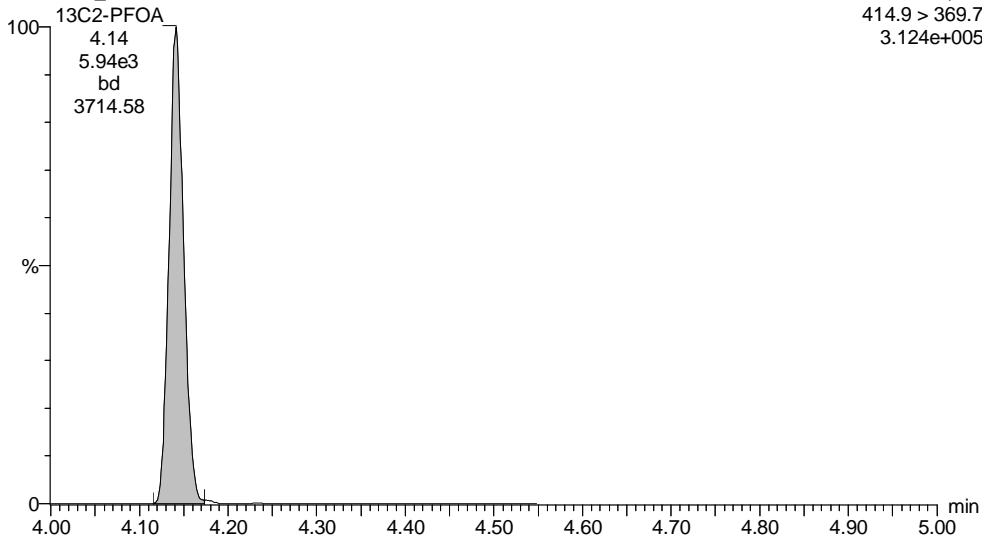
Last Altered: Monday, May 08, 2017 14:17:50 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:18:18 Pacific Daylight Time

ID: 1700550-01 RW02-20170501 0.25719, Description: RW02-20170501, Name: 170508G1\_17, Date: 08-May-2017, Time: 13:19:19, Instrument: , Lab: , User:

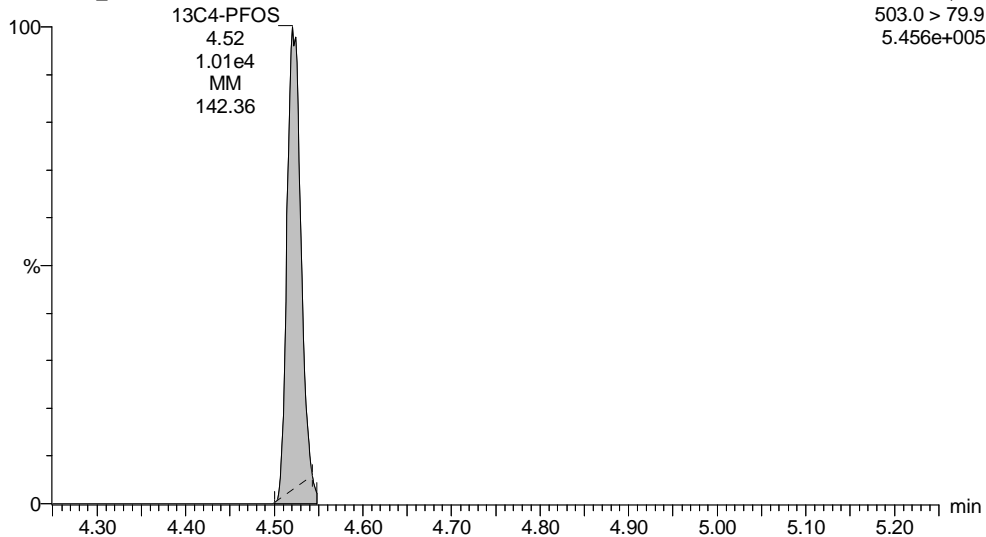
**13C2-PFOA**

170508G1\_17



**13C4-PFOS**

170508G1\_17



Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-4.qld

Last Altered: Wednesday, May 10, 2017 10:20:26 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:21:12 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-MS1 LFSM 0.26389, Description: LFSM, Name: 170510G1\_4, Date: 10-May-2017, Time: 09:11:44

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	2.058e3	9.931e3		0.264	2.91	22.1	
2	2 PFHpA	363 > 318.9	4.466e3	8.228e3		0.264	3.77	19.3	
3	3 PFHxS	398.9 > 79.6	2.551e3	9.931e3		0.264	3.89	23.3	
4	4 PFOA	413 > 368.7	4.186e3	8.228e3		0.264	4.18	24.0	
5	5 PFOS	499 > 79.9	8.077e2	9.931e3		0.264	4.58	25.3	
6	6 PFNA	463 > 418.8	6.009e3	8.228e3		0.264	4.52	17.7	
7	7 13C2-PFHxA	315.0 > 269.8	3.615e3	8.228e3	0.401	0.264	3.28	41.5	110
8	8 13C2-PFDA	515.1 > 469.9	5.048e3	8.228e3	0.748	0.264	4.80	31.1	82.0
9	9 13C2-PFOA	414.9 > 369.7	8.228e3	8.228e3	1.000	0.264	4.18	37.9	100
10	10 13C4-PFOS	503.0 > 79.9	9.931e3	9.931e3	1.000	0.264	4.58	109	100



Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-4.qld

Last Altered: Wednesday, May 10, 2017 10:20:26 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:21:12 AM Pacific Daylight Time

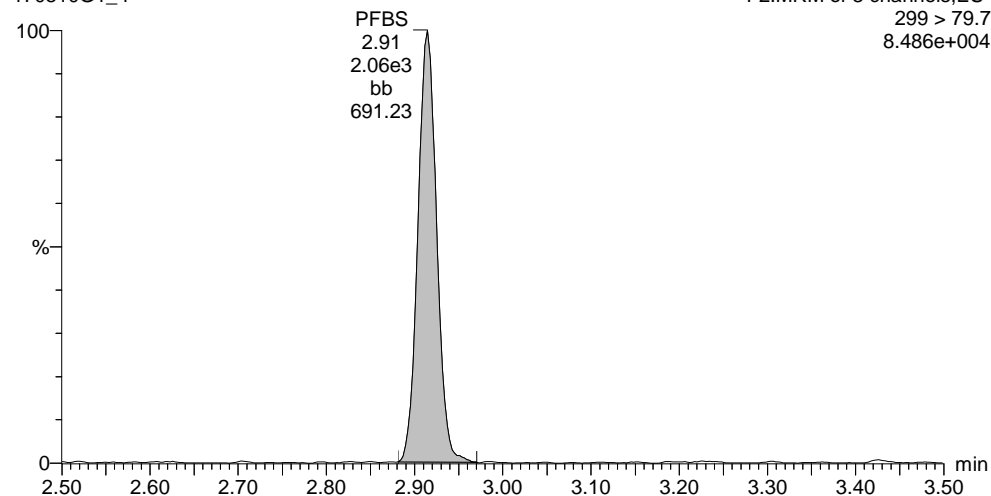
Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-MS1 LFSM 0.26389, Description: LFSM, Name: 170510G1\_4, Date: 10-May-2017, Time: 09:11:44, Instrument: , Lab: , User:

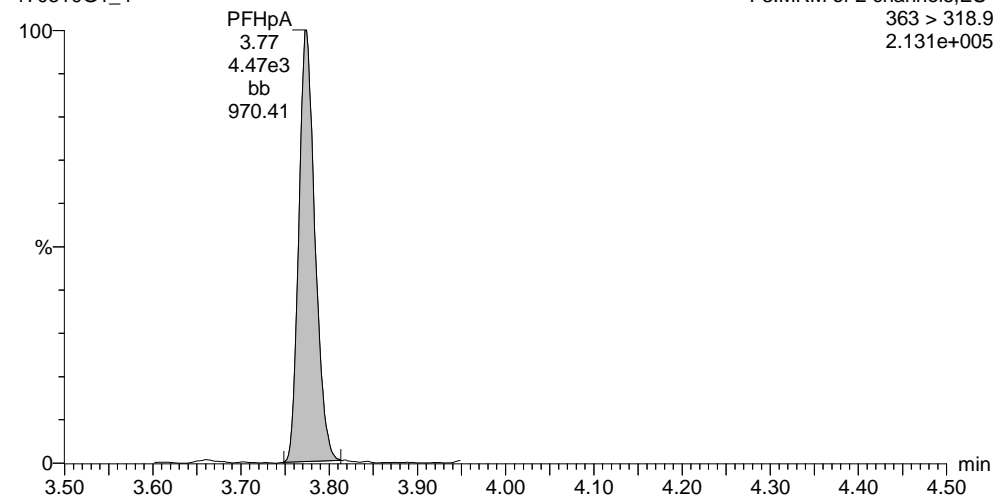
**PFBS**

170510G1\_4



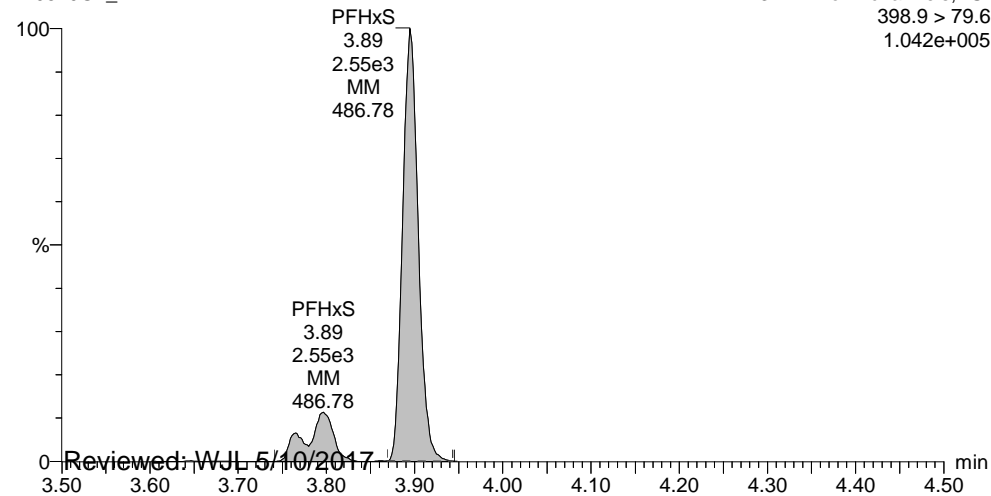
**PFHpA**

170510G1\_4



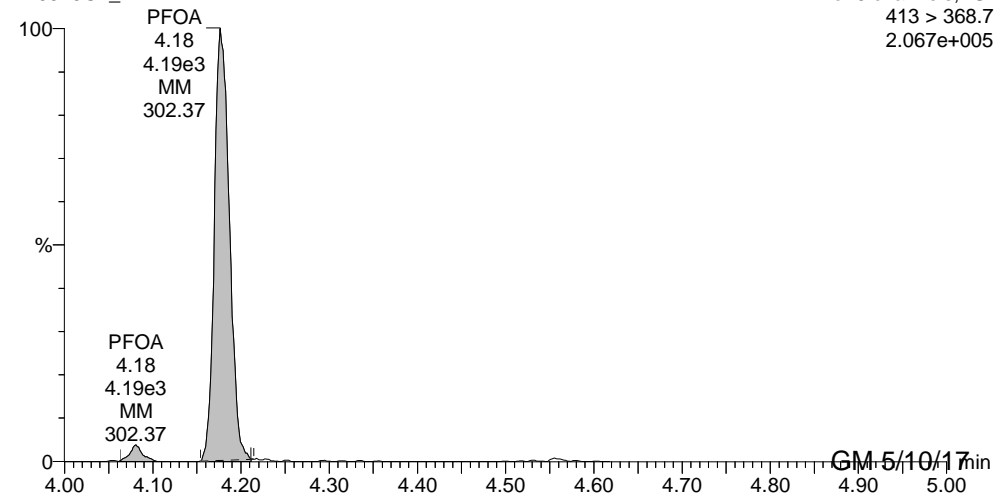
**PFHxS**

170510G1\_4



**PFOA**

170510G1\_4



Reviewed: WJL 5/10/2017

GM 5/10/17 min

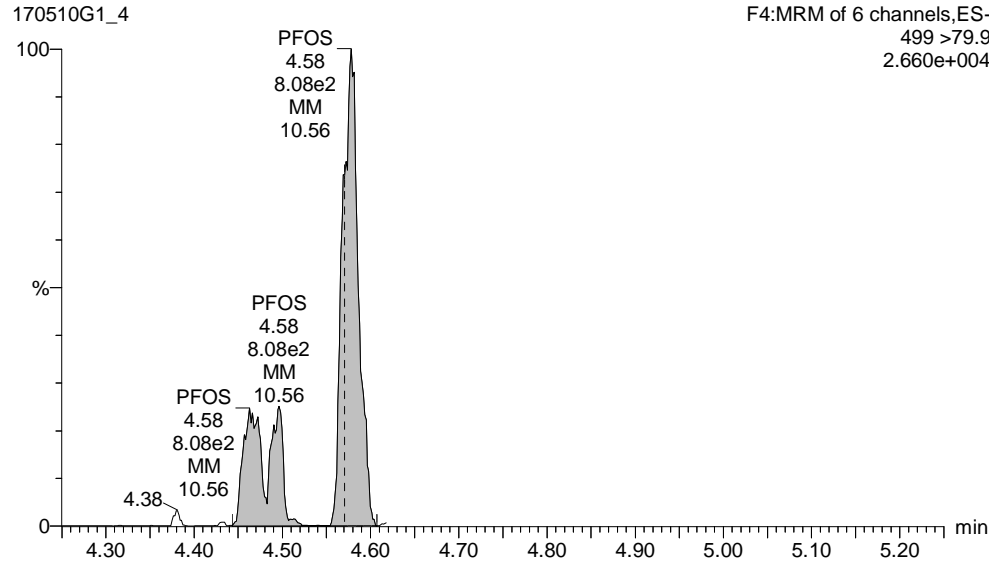
Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-4.qld

Last Altered: Wednesday, May 10, 2017 10:20:26 AM Pacific Daylight Time

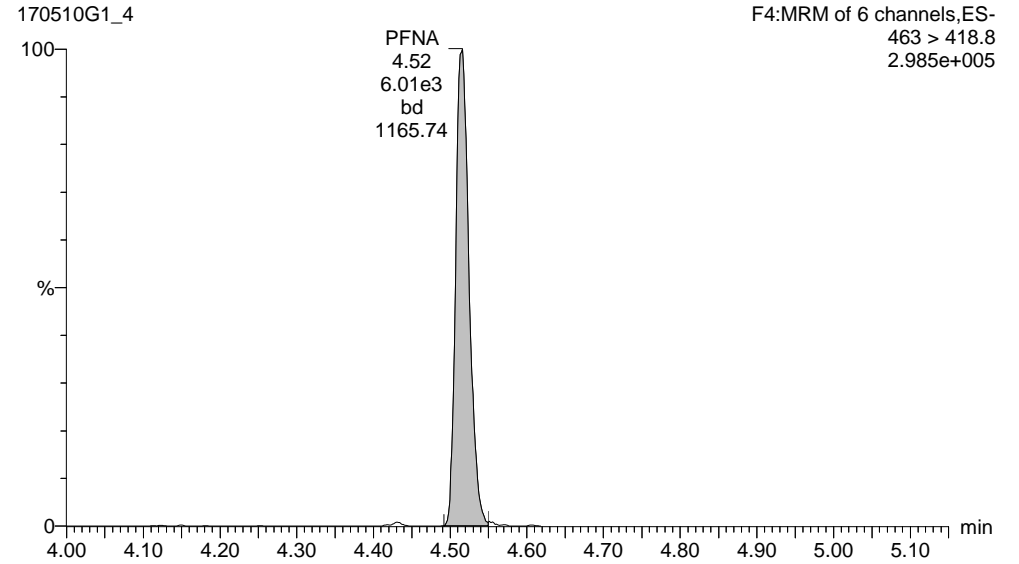
Printed: Wednesday, May 10, 2017 10:21:12 AM Pacific Daylight Time

ID: B7D0150-MS1 LFSM 0.26389, Description: LFSM, Name: 170510G1\_4, Date: 10-May-2017, Time: 09:11:44, Instrument: , Lab: , User:

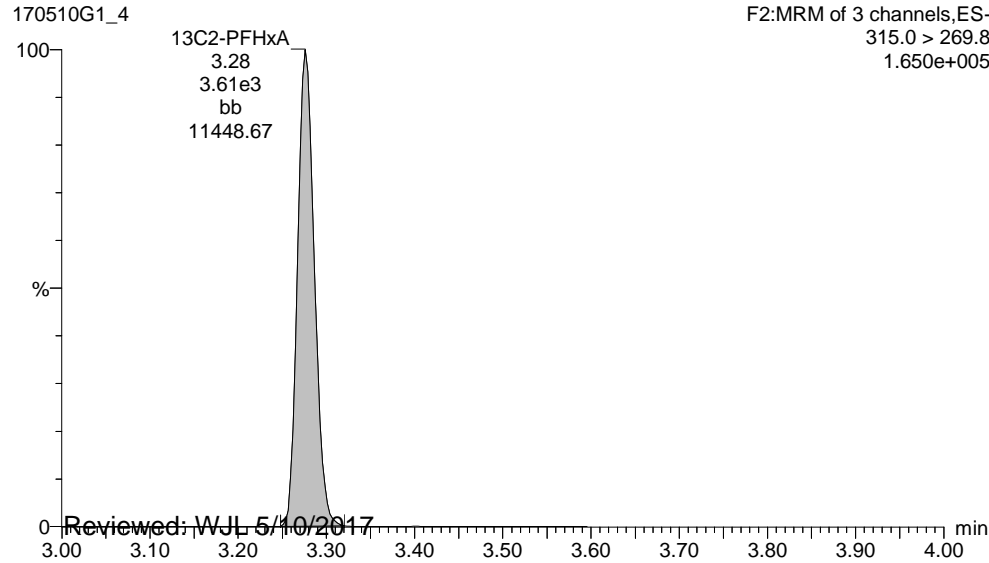
**PFOS**



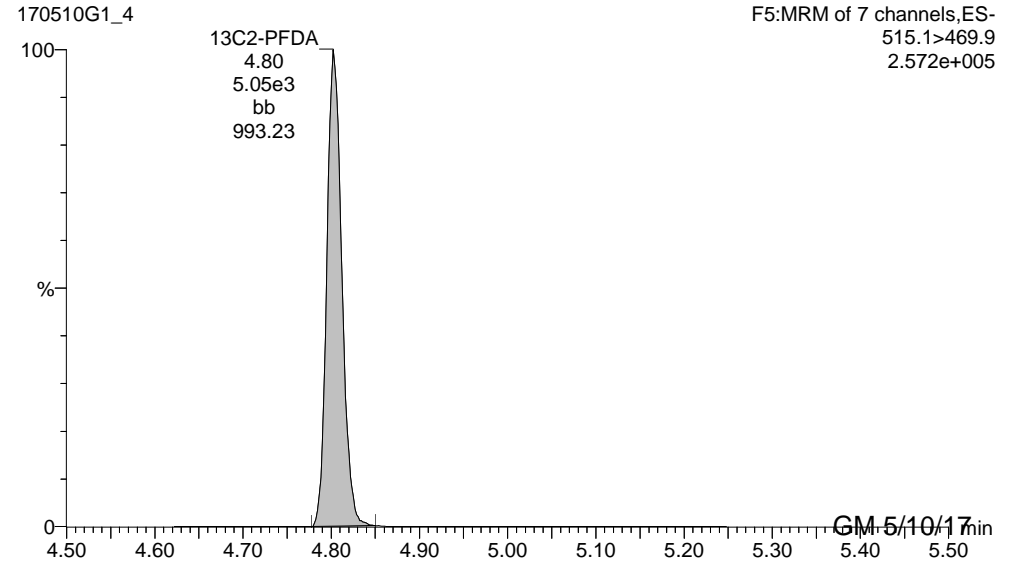
**PFNA**



**13C2-PFHxA**



**13C2-PFDA**



Reviewed: WJL 5/10/2017

GM 5/10/17

Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-4.qld

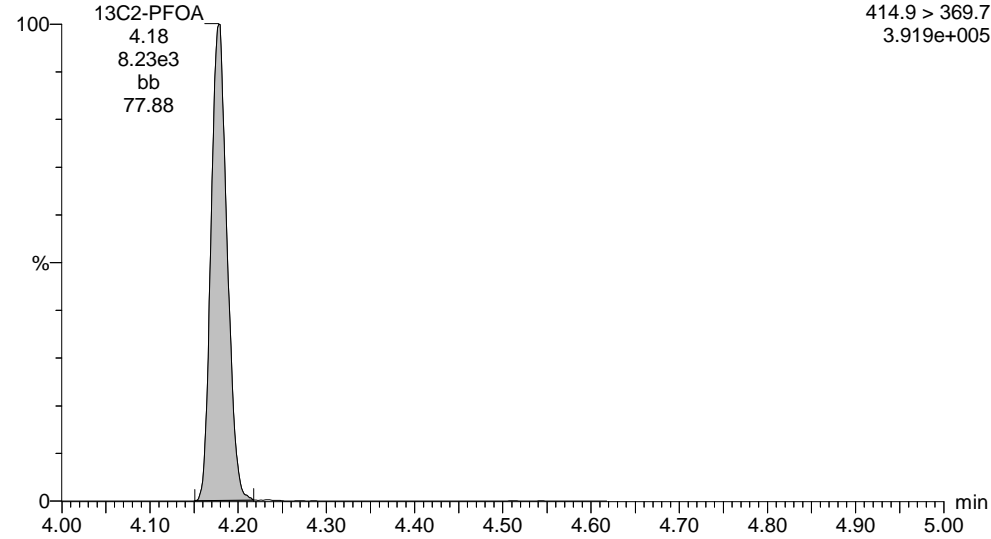
Last Altered: Wednesday, May 10, 2017 10:20:26 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:21:12 AM Pacific Daylight Time

ID: B7D0150-MS1 LFSM 0.26389, Description: LFSM, Name: 170510G1\_4, Date: 10-May-2017, Time: 09:11:44, Instrument: , Lab: , User:

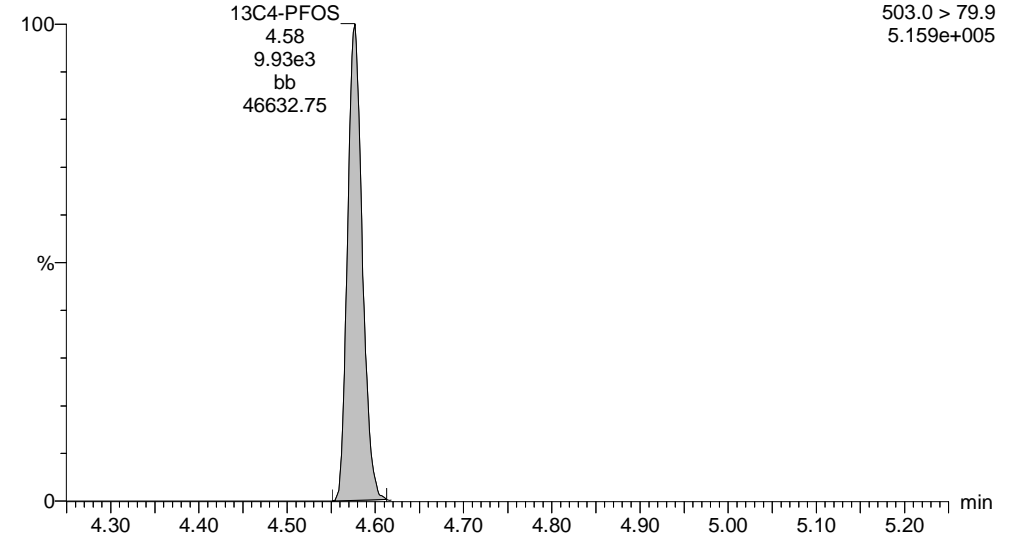
**13C2-PFOA**

170510G1\_4



**13C4-PFOS**

170510G1\_4



Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-5.qld

Last Altered: Wednesday, May 10, 2017 10:22:16 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:22:28 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-MSD1 LFSMD 0.25542, Description: LFSMD, Name: 170510G1\_5, Date: 10-May-2017, Time: 09:24:07

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.752e3	8.248e3		0.255	2.91	23.5	
2	2 PFHpA	363 > 318.9	3.680e3	7.055e3		0.255	3.77	19.2	
3	3 PFHxS	398.9 > 79.6	2.166e3	8.248e3		0.255	3.89	24.7	
4	4 PFOA	413 > 368.7	3.419e3	7.055e3		0.255	4.18	23.6	
5	5 PFOS	499 > 79.9	6.496e2	8.248e3		0.255	4.58	25.3	
6	6 PFNA	463 > 418.8	5.038e3	7.055e3		0.255	4.51	17.9	
7	7 13C2-PFHxA	315.0 > 269.8	3.083e3	7.055e3	0.401	0.255	3.27	42.6	109
8	8 13C2-PFDA	515.1 > 469.9	4.721e3	7.055e3	0.748	0.255	4.80	35.0	89.4
9	9 13C2-PFOA	414.9 > 369.7	7.055e3	7.055e3	1.000	0.255	4.18	39.2	100
10	10 13C4-PFOS	503.0 > 79.9	8.248e3	8.248e3	1.000	0.255	4.57	112	100

Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-5.qld

Last Altered: Wednesday, May 10, 2017 10:22:16 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:22:28 AM Pacific Daylight Time

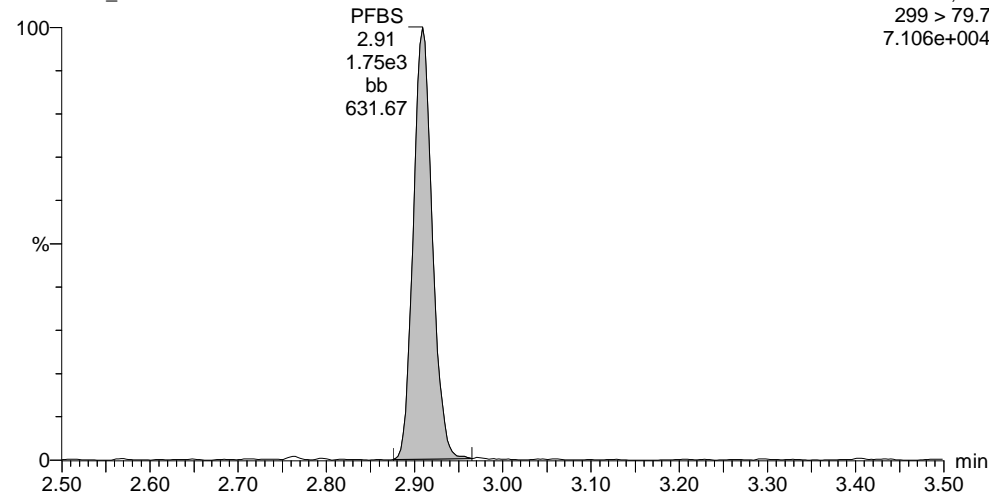
Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: B7D0150-MSD1 LFSMD 0.25542, Description: LFSMD, Name: 170510G1\_5, Date: 10-May-2017, Time: 09:24:07, Instrument: , Lab: , User:

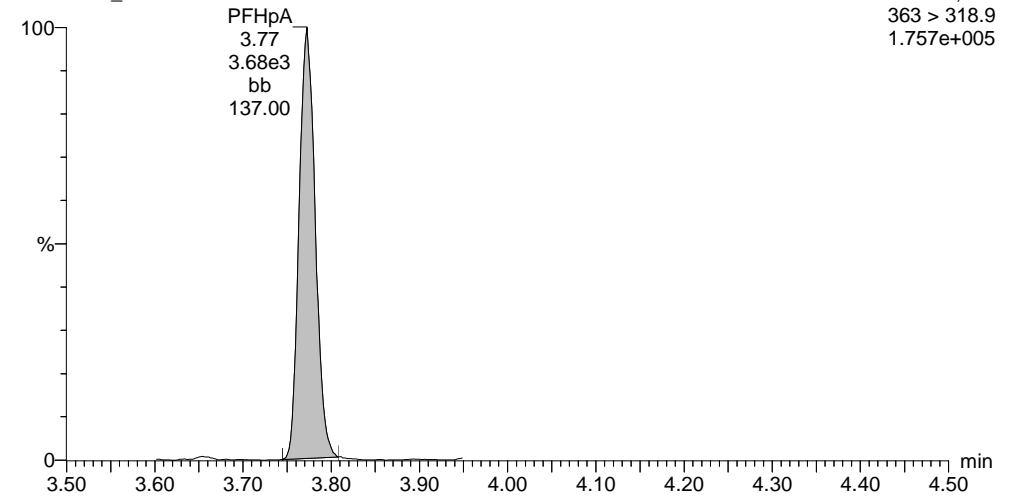
**PFBS**

170510G1\_5



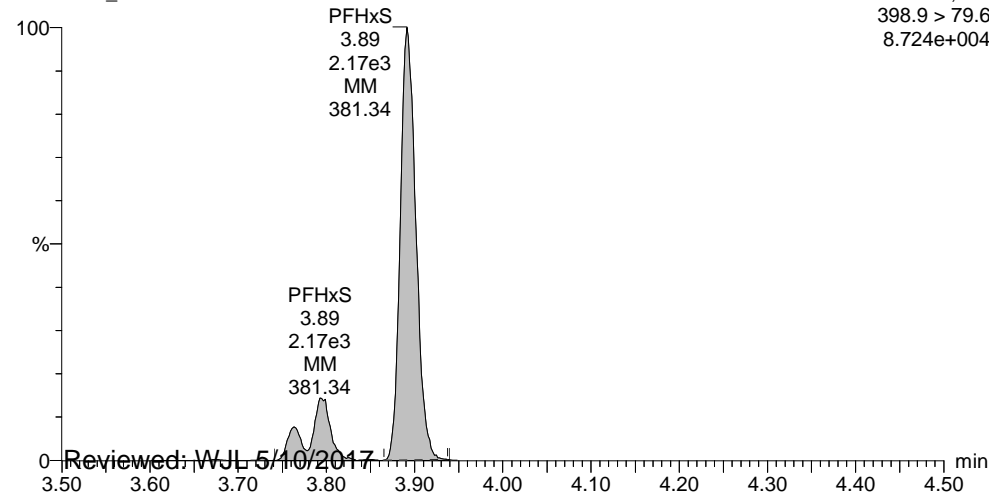
**PFHpA**

170510G1\_5



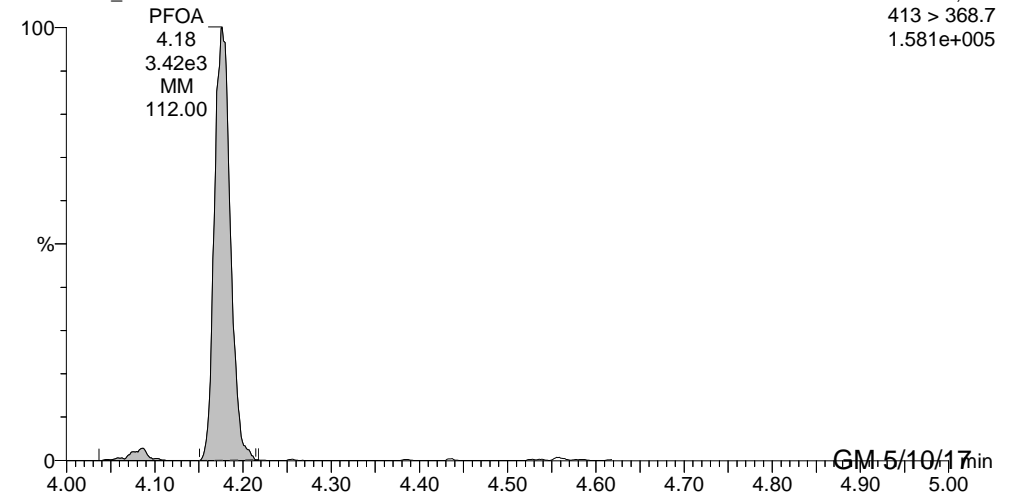
**PFHxS**

170510G1\_5



**PFOA**

170510G1\_5



Reviewed: WJL 5/10/2017

GM 5/10/17

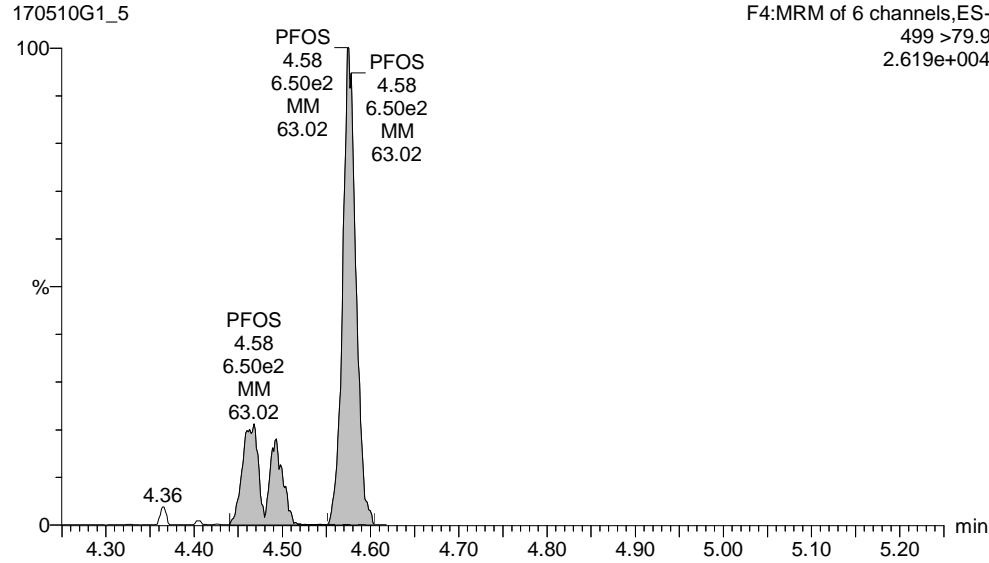
Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-5.qld

Last Altered: Wednesday, May 10, 2017 10:22:16 AM Pacific Daylight Time

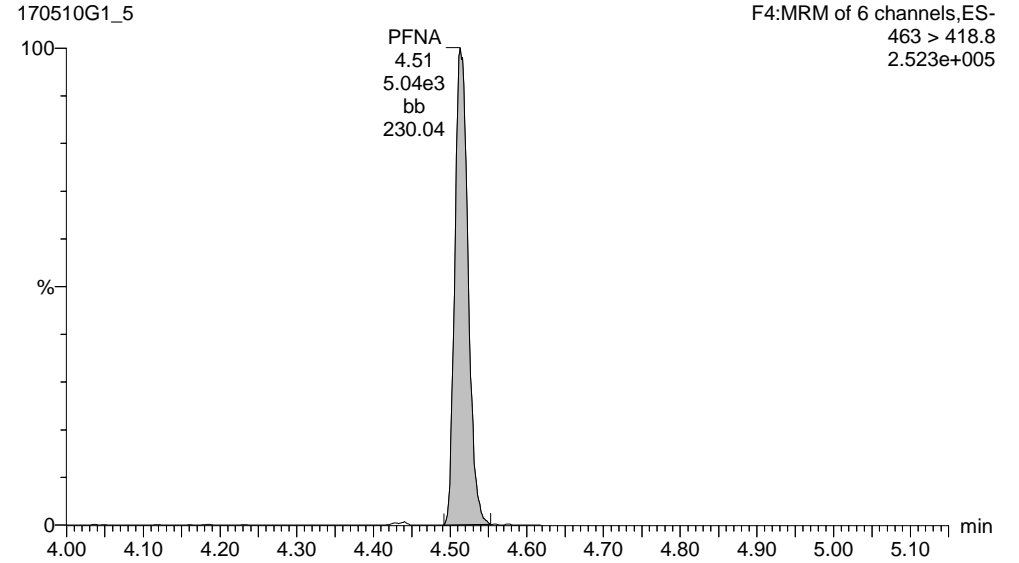
Printed: Wednesday, May 10, 2017 10:22:28 AM Pacific Daylight Time

ID: B7D0150-MSD1 LFSMD 0.25542, Description: LFSMD, Name: 170510G1\_5, Date: 10-May-2017, Time: 09:24:07, Instrument: , Lab: , User:

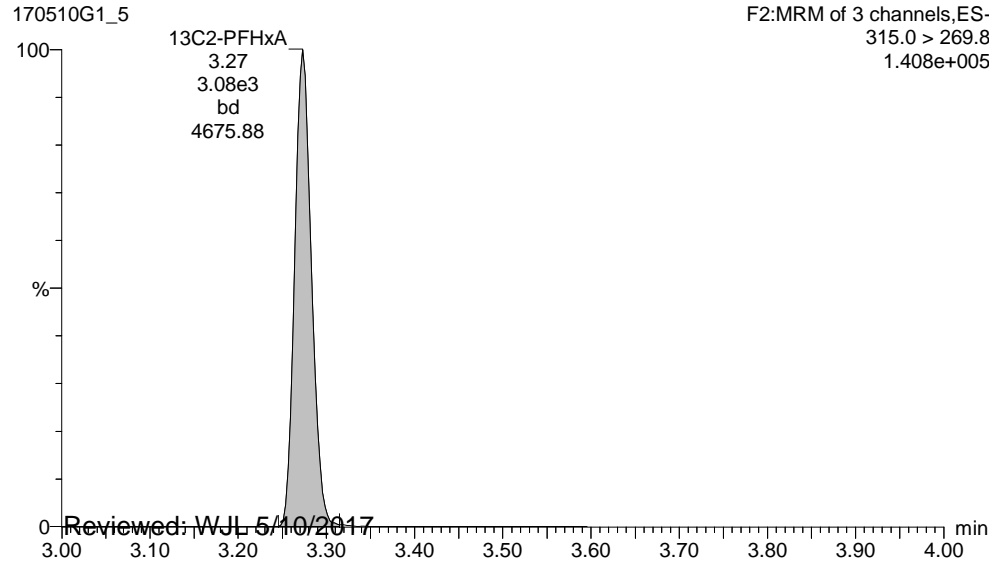
**PFOS**



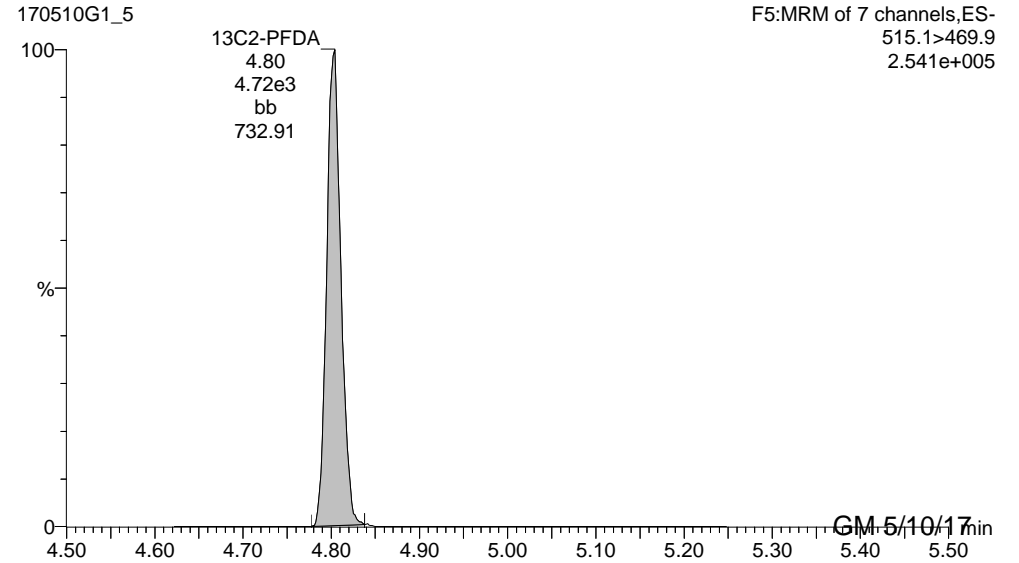
**PFNA**



**13C2-PFHxA**



**13C2-PFDA**



Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-5.qld

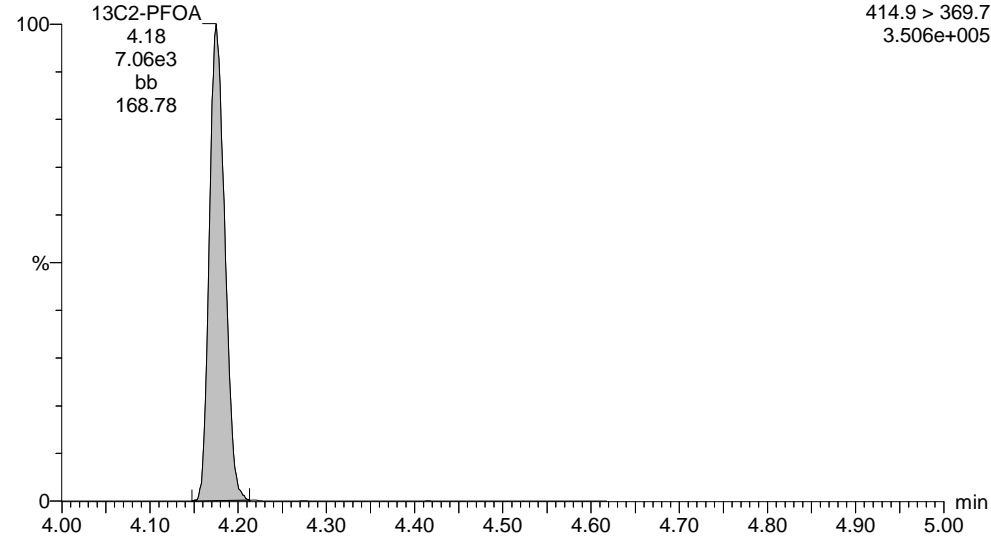
Last Altered: Wednesday, May 10, 2017 10:22:16 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:22:28 AM Pacific Daylight Time

ID: B7D0150-MSD1 LFSMD 0.25542, Description: LFSMD, Name: 170510G1\_5, Date: 10-May-2017, Time: 09:24:07, Instrument: , Lab: , User:

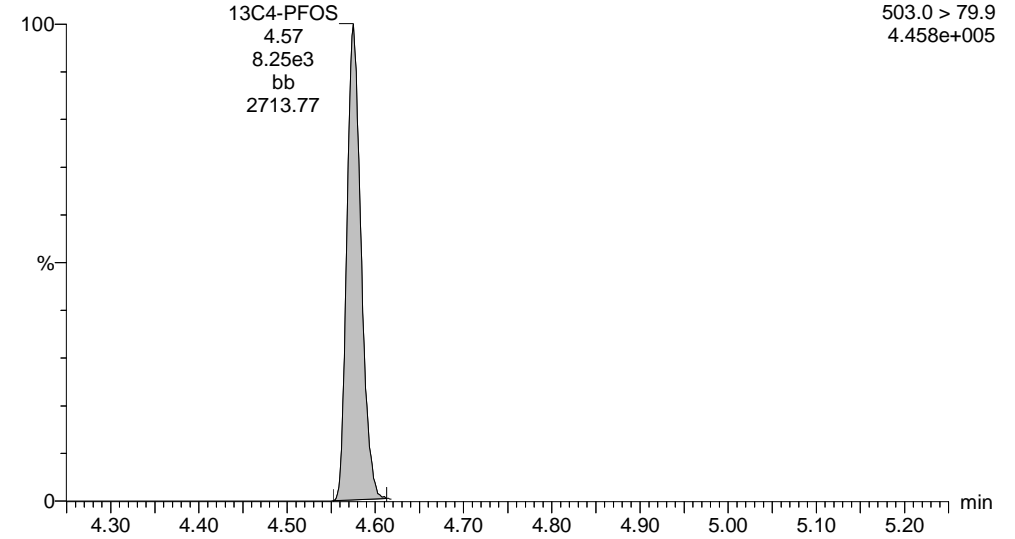
**13C2-PFOA**

170510G1\_5



**13C4-PFOS**

170510G1\_5



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-18.qld

Last Altered: Monday, May 08, 2017 14:21:58 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:23:04 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-02 FRB02-20170501 0.25799, Description: FRB02-20170501, Name: 170508G1\_18, Date: 08-May-2017, Time: 13:32:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		9.440e3		0.258			
2	2 PFHpA	363 > 318.9		6.277e3		0.258			
3	3 PFHxS	398.9 > 79.6		9.440e3		0.258			
4	4 PFOA	413 > 368.7	1.184e1	6.277e3		0.258	4.14	0.0888	
5	5 PFOS	499 > 79.9		9.440e3		0.258			
6	6 PFNA	463 > 418.8		6.277e3		0.258			
7	7 13C2-PFHxA	315.0 > 269.8	2.595e3	6.277e3	0.401	0.258	3.28	40.0	103
8	8 13C2-PFDA	515.1 > 469.9	4.999e3	6.277e3	0.748	0.258	4.74	41.2	106
9	9 13C2-PFOA	414.9 > 369.7	6.277e3	6.277e3	1.000	0.258	4.14	38.8	100
10	10 13C4-PFOS	503.0 > 79.9	9.440e3	9.440e3	1.000	0.258	4.52	111	100



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-18.qld

Last Altered: Monday, May 08, 2017 14:21:58 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:23:04 Pacific Daylight Time

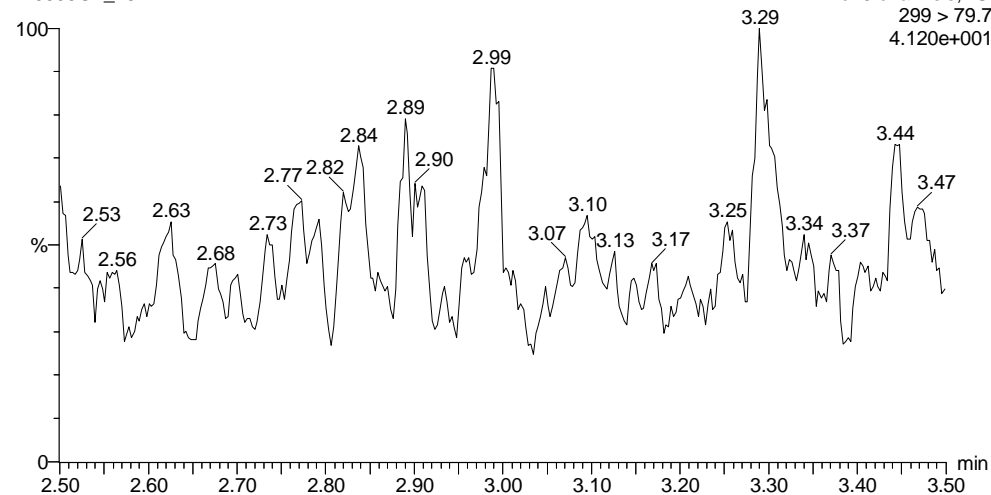
Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-02 FRB02-20170501 0.25799, Description: FRB02-20170501, Name: 170508G1\_18, Date: 08-May-2017, Time: 13:32:37, Instrument: , Lab: , User:

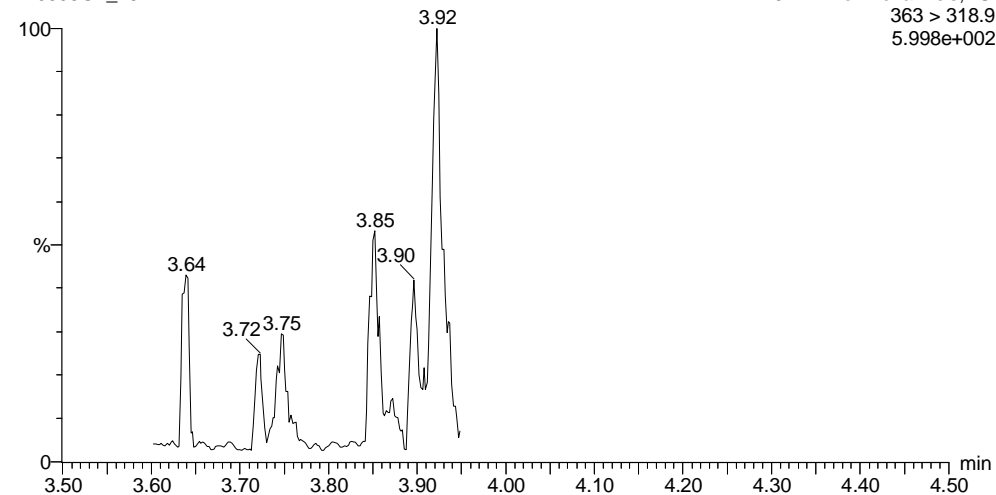
**PFBS**

170508G1\_18



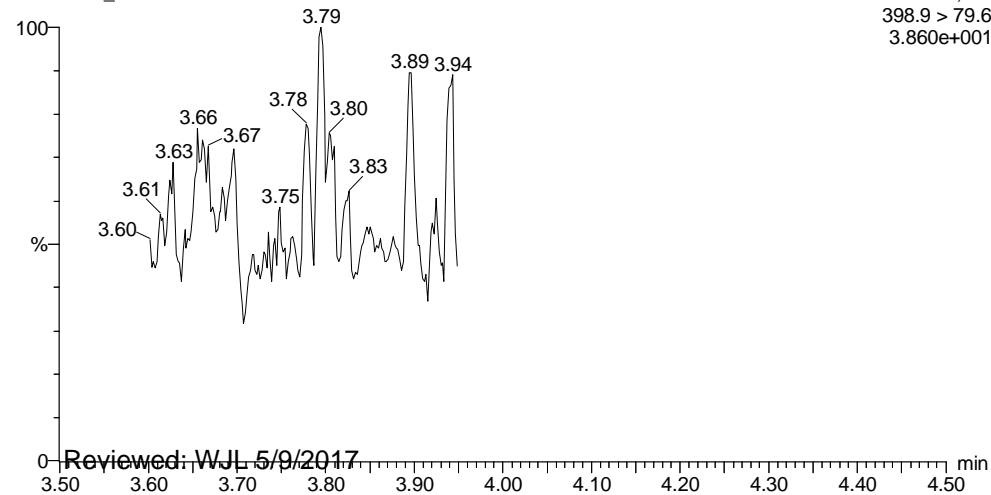
**PFHpA**

170508G1\_18



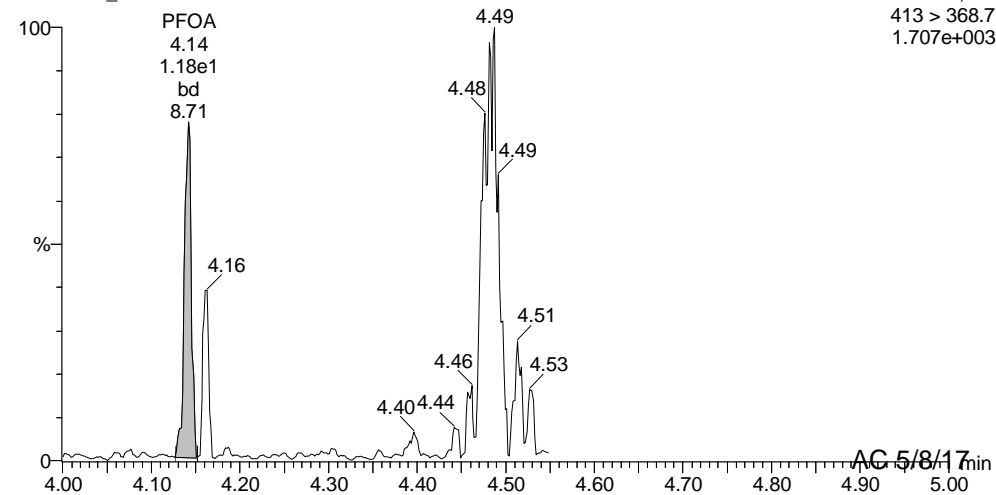
**PFHxS**

170508G1\_18



**PFOA**

170508G1\_18



Reviewed: WJL 5/9/2017

AC 5/8/17 min

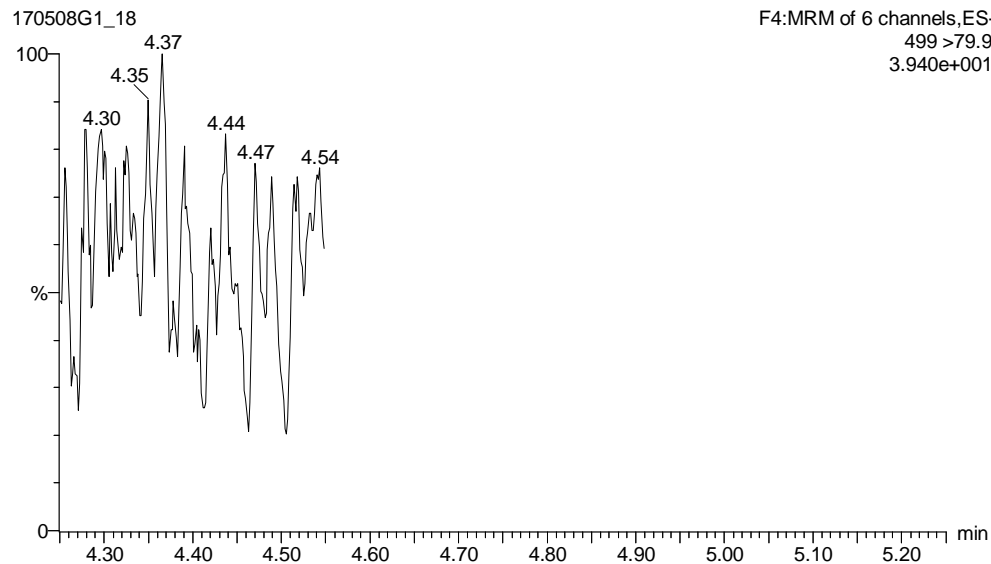
Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-18.qld

Last Altered: Monday, May 08, 2017 14:21:58 Pacific Daylight Time

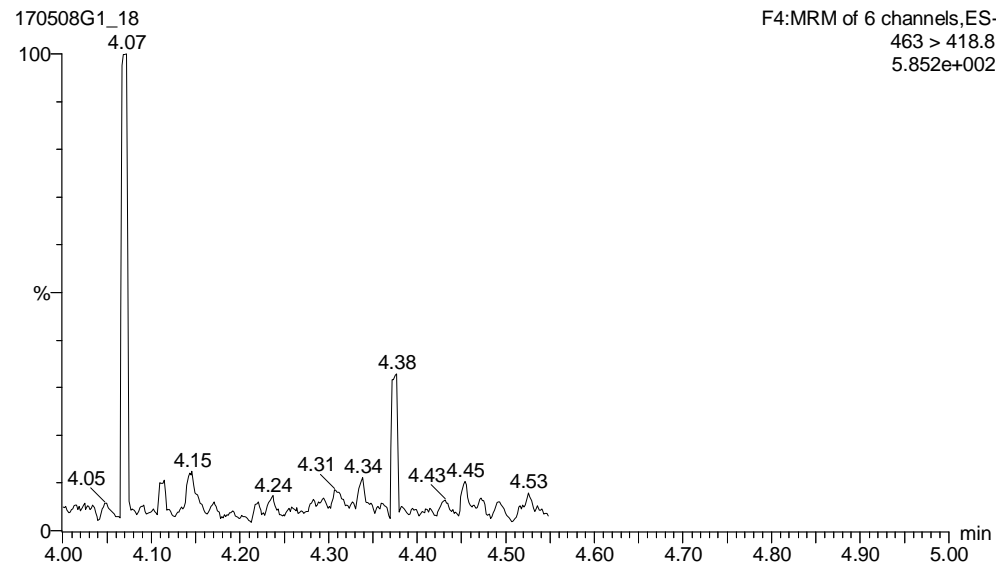
Printed: Monday, May 08, 2017 14:23:04 Pacific Daylight Time

ID: 1700550-02 FRB02-20170501 0.25799, Description: FRB02-20170501, Name: 170508G1\_18, Date: 08-May-2017, Time: 13:32:37, Instrument: , Lab: , User:

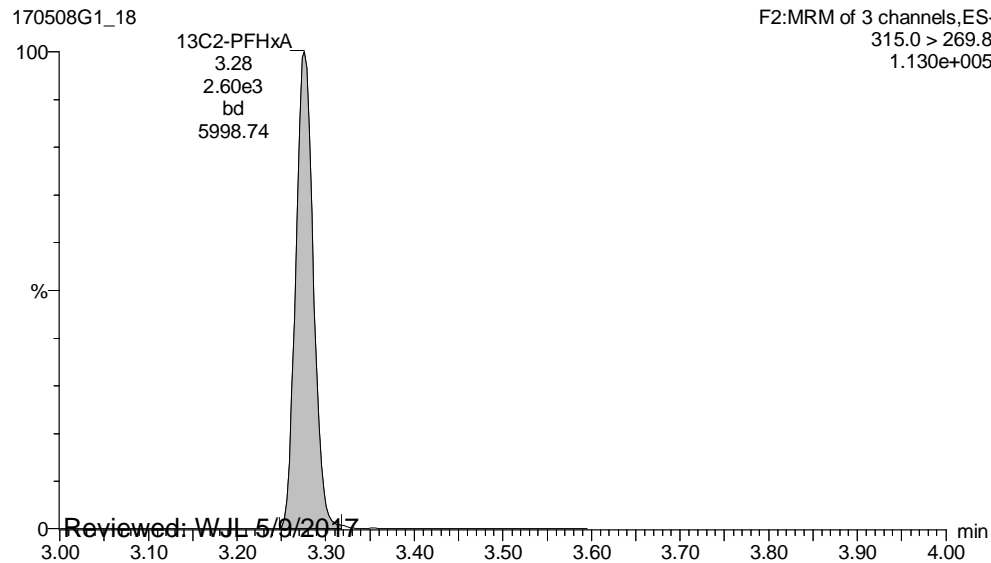
**PFOS**



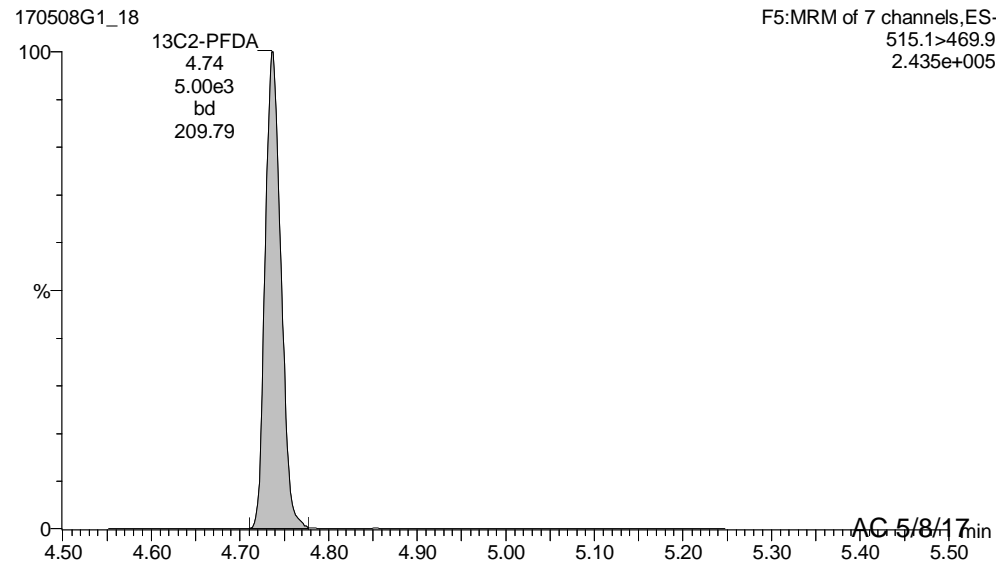
**PFNA**



**13C2-PFHxA**



**13C2-PFDA**



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-18.qld

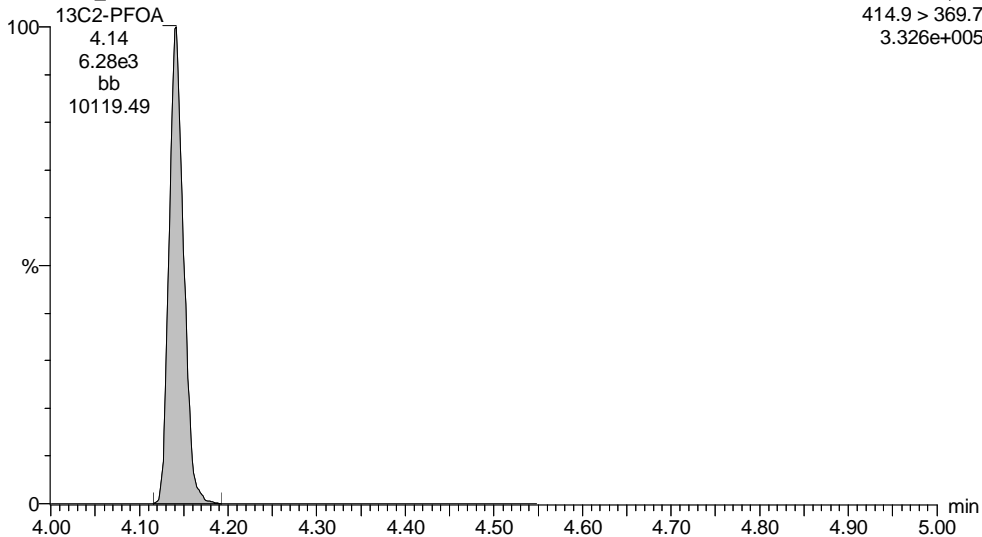
Last Altered: Monday, May 08, 2017 14:21:58 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:23:04 Pacific Daylight Time

ID: 1700550-02 FRB02-20170501 0.25799, Description: FRB02-20170501, Name: 170508G1\_18, Date: 08-May-2017, Time: 13:32:37, Instrument: , Lab: , User:

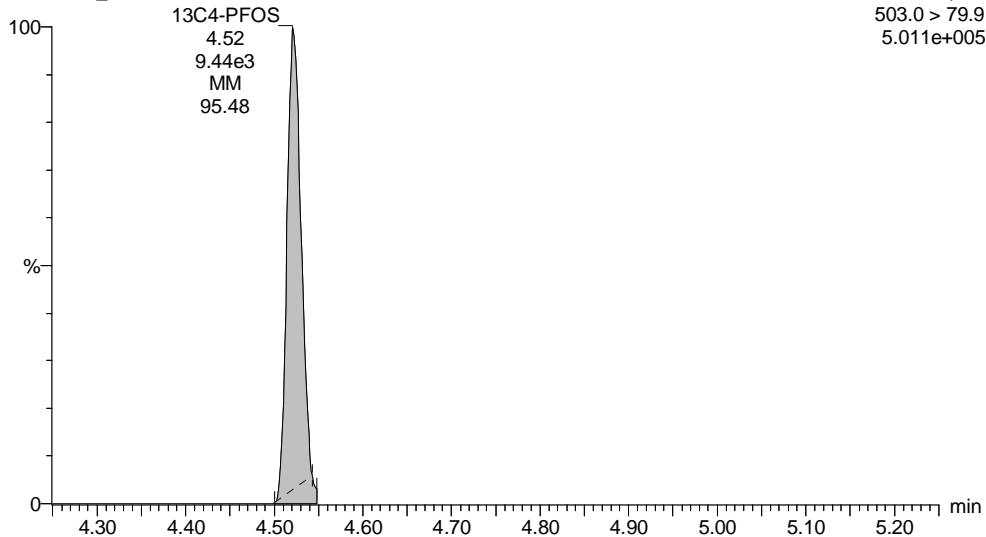
**13C2-PFOA**

170508G1\_18



**13C4-PFOS**

170508G1\_18



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-19.qld

Last Altered: Monday, May 08, 2017 14:26:07 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:26:37 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-03 RW12-20170501 0.26282, Description: RW12-20170501, Name: 170508G1\_19, Date: 08-May-2017, Time: 13:45:02

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.177e2	9.814e3		0.263	2.92	1.25	
2	2 PFHpA	363 > 318.9	3.388e2	6.106e3		0.263	3.76	1.94	
3	3 PFHxS	398.9 > 79.6	7.850e2	9.814e3		0.263	3.86	7.16	
4	4 PFOA	413 > 368.7	5.436e2	6.106e3		0.263	4.14	4.13	
5	5 PFOS	499 > 79.9	3.490e2	9.814e3		0.263	4.52	11.0	
6	6 PFNA	463 > 418.8	1.292e3	6.106e3		0.263	4.47	5.08	
7	7 13C2-PFHxA	315.0 > 269.8	2.660e3	6.106e3	0.401	0.263	3.28	41.3	109
8	8 13C2-PFDA	515.1 > 469.9	5.216e3	6.106e3	0.748	0.263	4.74	43.4	114
9	9 13C2-PFOA	414.9 > 369.7	6.106e3	6.106e3	1.000	0.263	4.14	38.0	100
10	10 13C4-PFOS	503.0 > 79.9	9.814e3	9.814e3	1.000	0.263	4.52	109	100

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-19.qld

Last Altered: Monday, May 08, 2017 14:26:07 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:26:37 Pacific Daylight Time

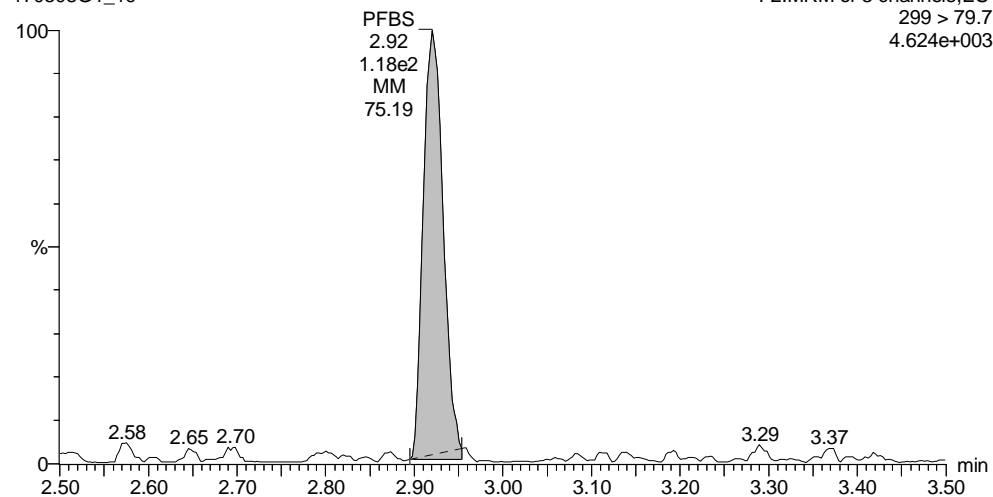
Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-03 RW12-20170501 0.26282, Description: RW12-20170501, Name: 170508G1\_19, Date: 08-May-2017, Time: 13:45:02, Instrument: , Lab: , User:

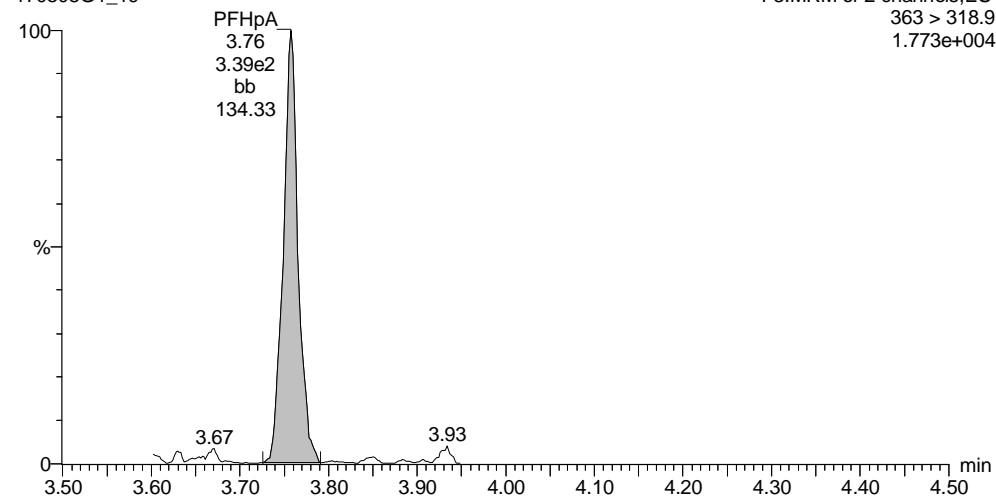
**PFBS**

170508G1\_19



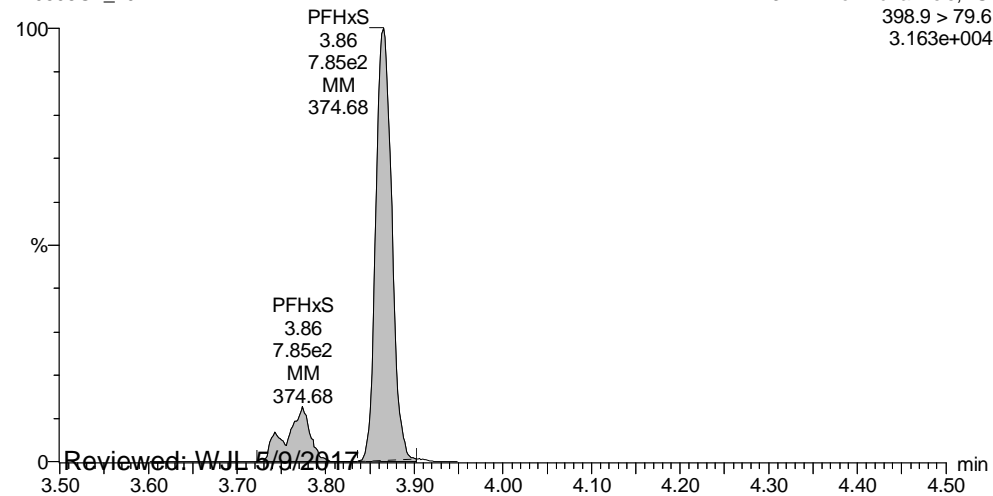
**PFHpA**

170508G1\_19



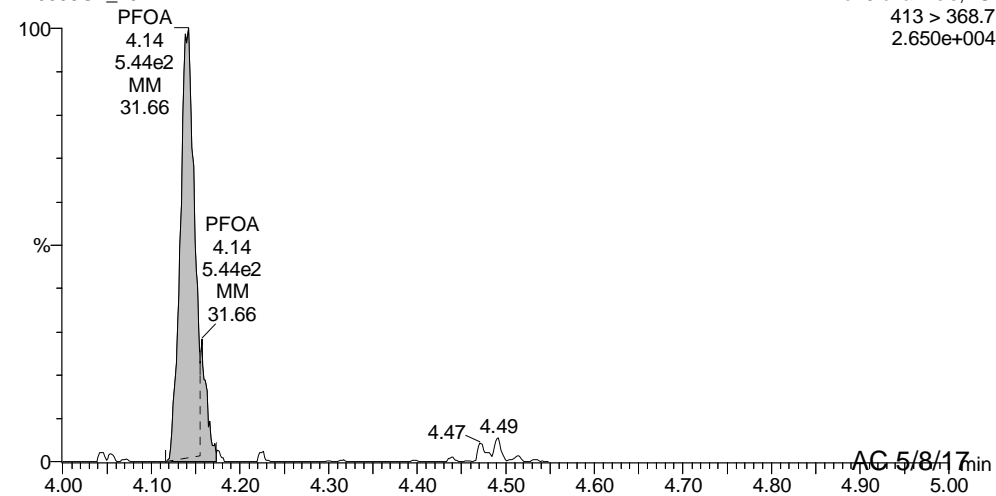
**PFHxS**

170508G1\_19



**PFOA**

170508G1\_19



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-19.qld

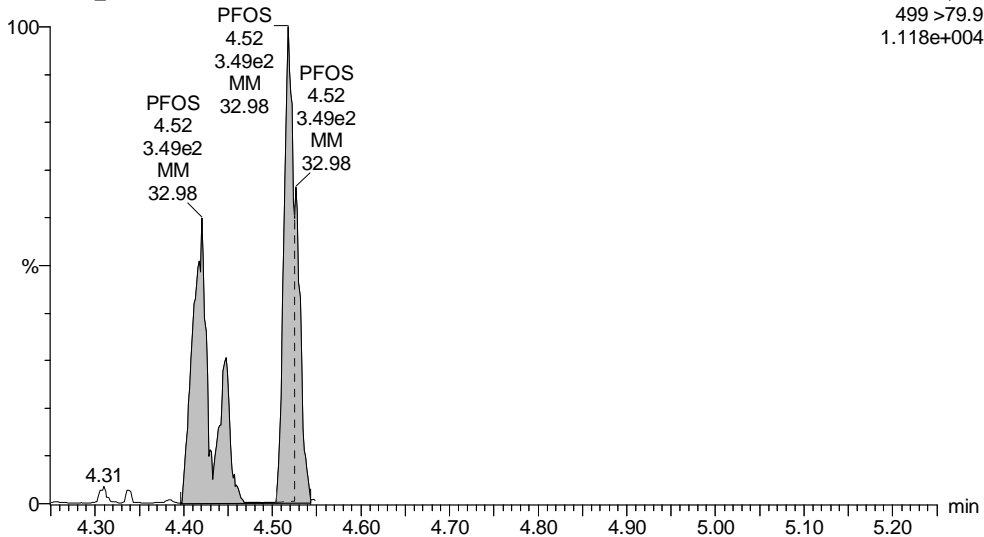
Last Altered: Monday, May 08, 2017 14:26:07 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:26:37 Pacific Daylight Time

ID: 1700550-03 RW12-20170501 0.26282, Description: RW12-20170501, Name: 170508G1\_19, Date: 08-May-2017, Time: 13:45:02, Instrument: , Lab: , User:

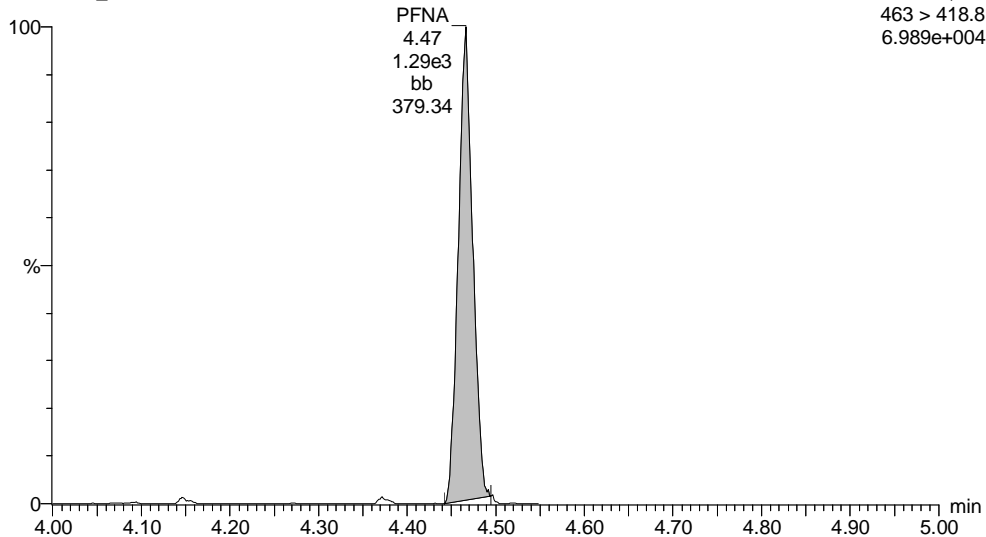
**PFOS**

170508G1\_19



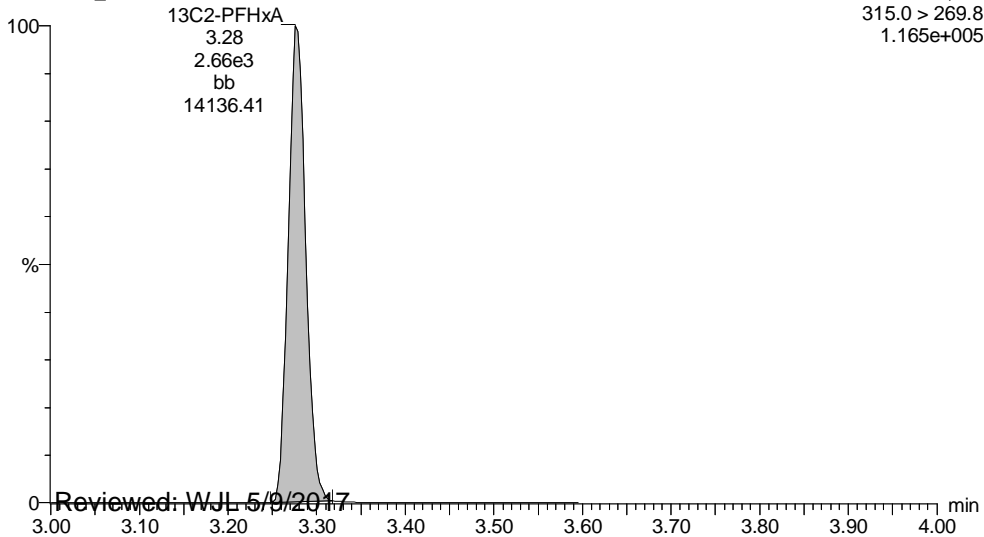
**PFNA**

170508G1\_19



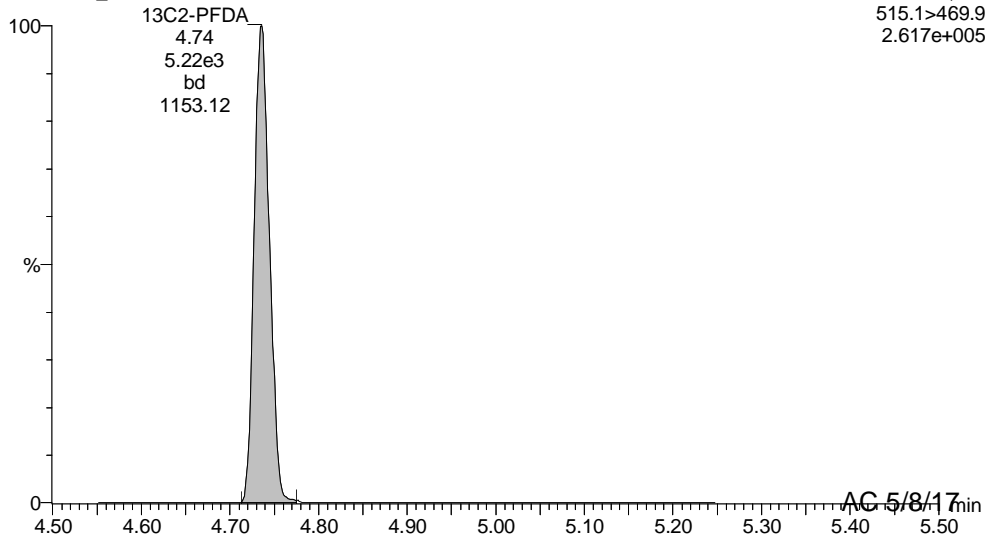
**13C2-PFHxA**

170508G1\_19



**13C2-PFDA**

170508G1\_19



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-19.qld

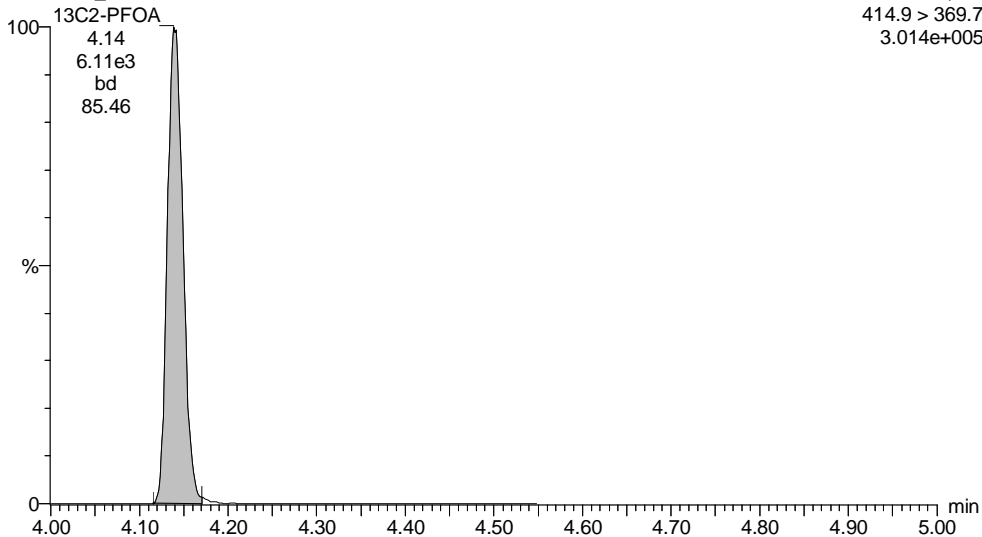
Last Altered: Monday, May 08, 2017 14:26:07 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:26:37 Pacific Daylight Time

ID: 1700550-03 RW12-20170501 0.26282, Description: RW12-20170501, Name: 170508G1\_19, Date: 08-May-2017, Time: 13:45:02, Instrument: , Lab: , User:

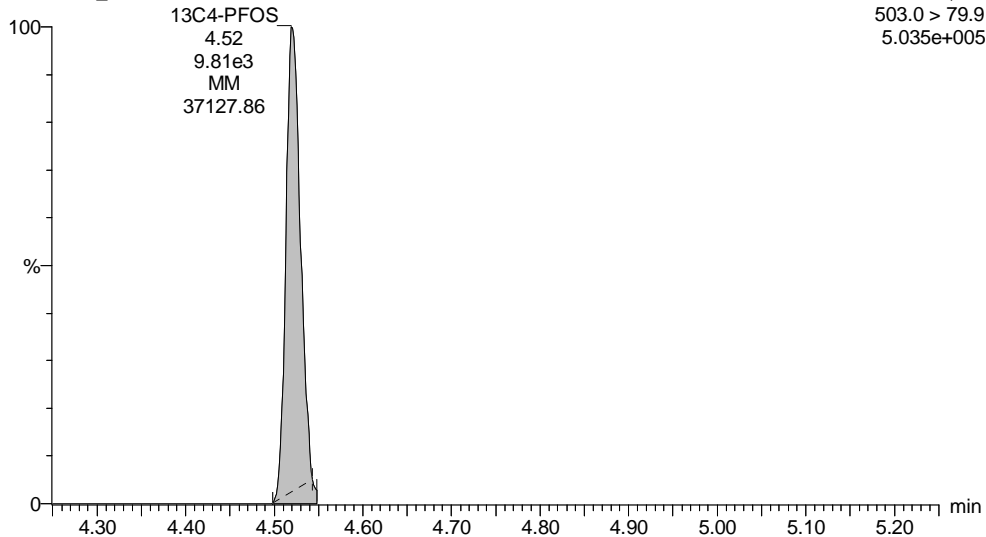
**13C2-PFOA**

170508G1\_19



**13C4-PFOS**

170508G1\_19



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-20.qld

Last Altered: Monday, May 08, 2017 14:29:10 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:29:43 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-04 FRB12-20170501 0.26475, Description: FRB12-20170501, Name: 170508G1\_20, Date: 08-May-2017, Time: 13:57:27

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		8.996e3		0.265			
2	2 PFHpA	363 > 318.9		5.912e3		0.265			
3	3 PFHxS	398.9 > 79.6		8.996e3		0.265			
4	4 PFOA	413 > 368.7	3.192e1	5.912e3		0.265	4.14	0.248	
5	5 PFOS	499 > 79.9		8.996e3		0.265			
6	6 PFNA	463 > 418.8		5.912e3		0.265			
7	7 13C2-PFHxA	315.0 > 269.8	2.593e3	5.912e3	0.401	0.265	3.28	41.3	109
8	8 13C2-PFDA	515.1 > 469.9	4.762e3	5.912e3	0.748	0.265	4.73	40.6	108
9	9 13C2-PFOA	414.9 > 369.7	5.912e3	5.912e3	1.000	0.265	4.14	37.8	100
10	10 13C4-PFOS	503.0 > 79.9	8.996e3	8.996e3	1.000	0.265	4.52	108	100



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-20.qld

Last Altered: Monday, May 08, 2017 14:29:10 Pacific Daylight Time

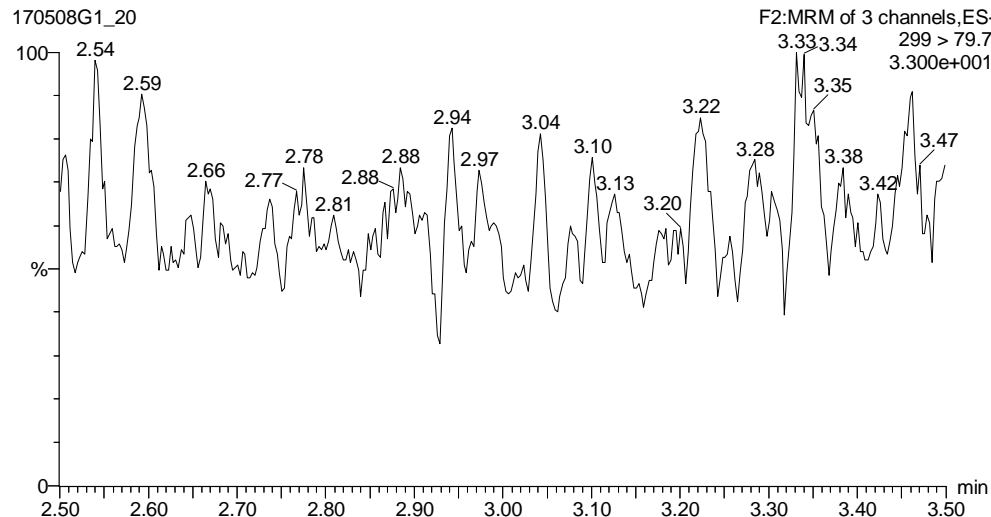
Printed: Monday, May 08, 2017 14:29:43 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

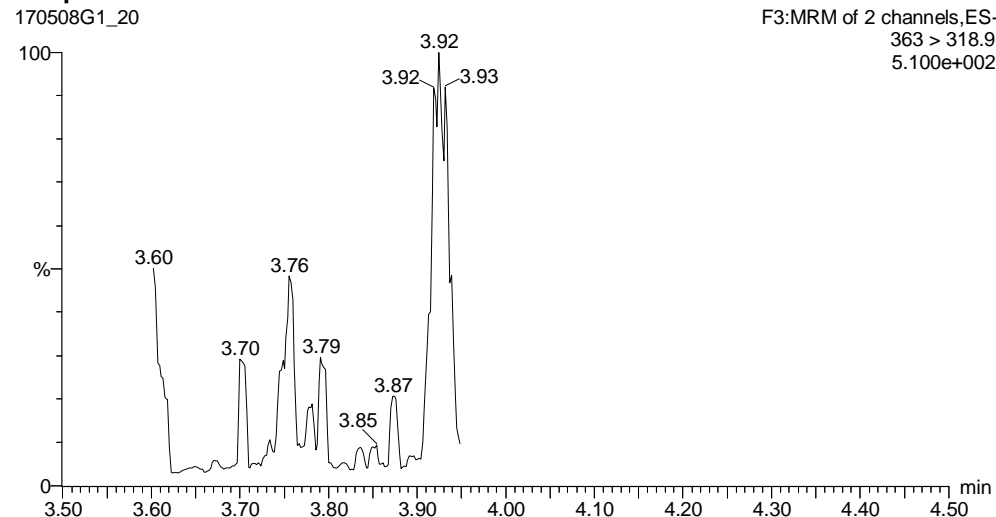
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-04 FRB12-20170501 0.26475, Description: FRB12-20170501, Name: 170508G1\_20, Date: 08-May-2017, Time: 13:57:27, Instrument: , Lab: , User:

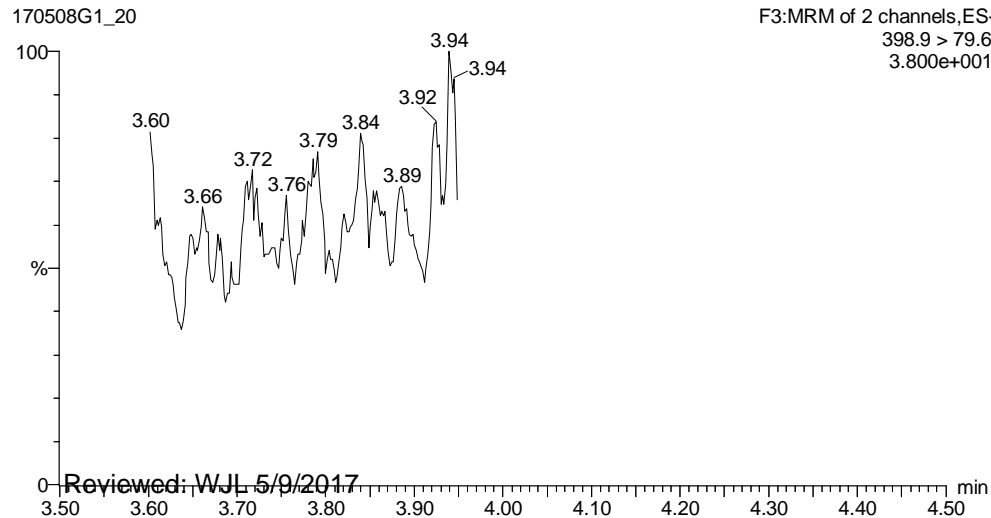
**PFBS**



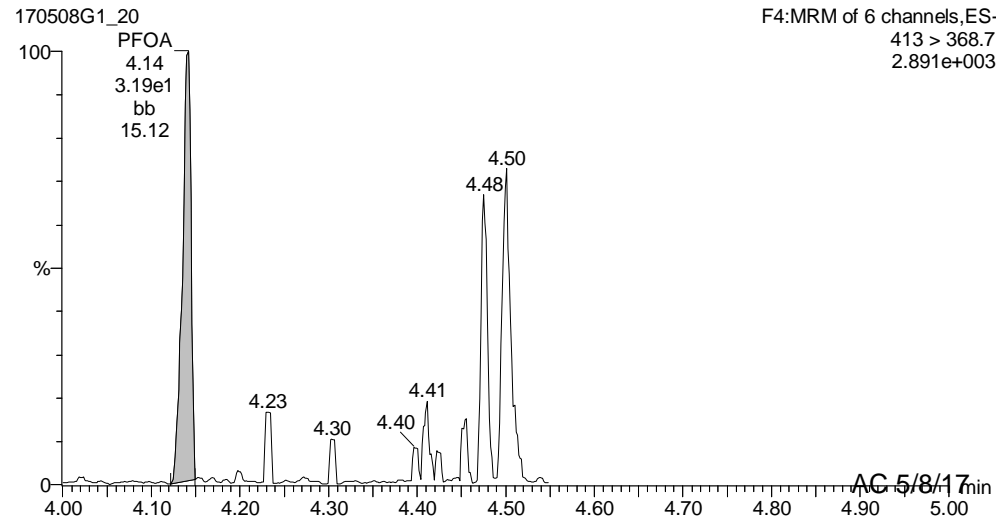
**PFHpA**



**PFHxS**



**PFOA**



Reviewed: WJL 5/9/2017

AC 5/8/17 min

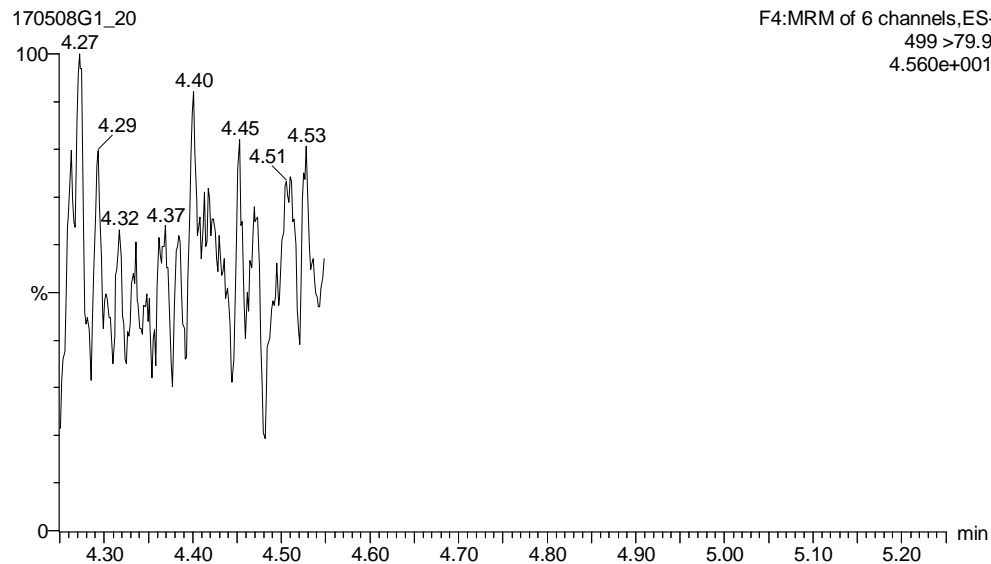
Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-20.qld

Last Altered: Monday, May 08, 2017 14:29:10 Pacific Daylight Time

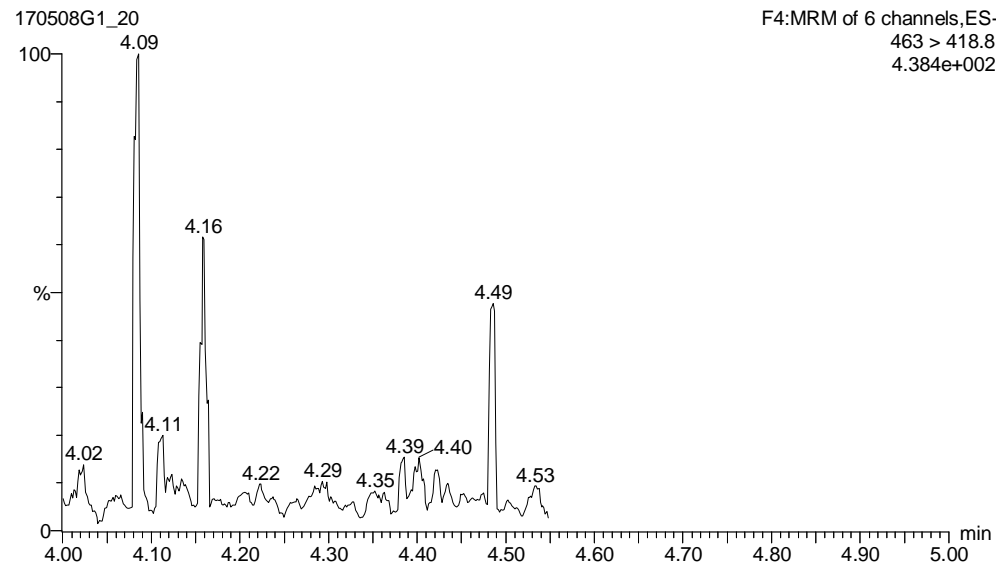
Printed: Monday, May 08, 2017 14:29:43 Pacific Daylight Time

ID: 1700550-04 FRB12-20170501 0.26475, Description: FRB12-20170501, Name: 170508G1\_20, Date: 08-May-2017, Time: 13:57:27, Instrument: , Lab: , User:

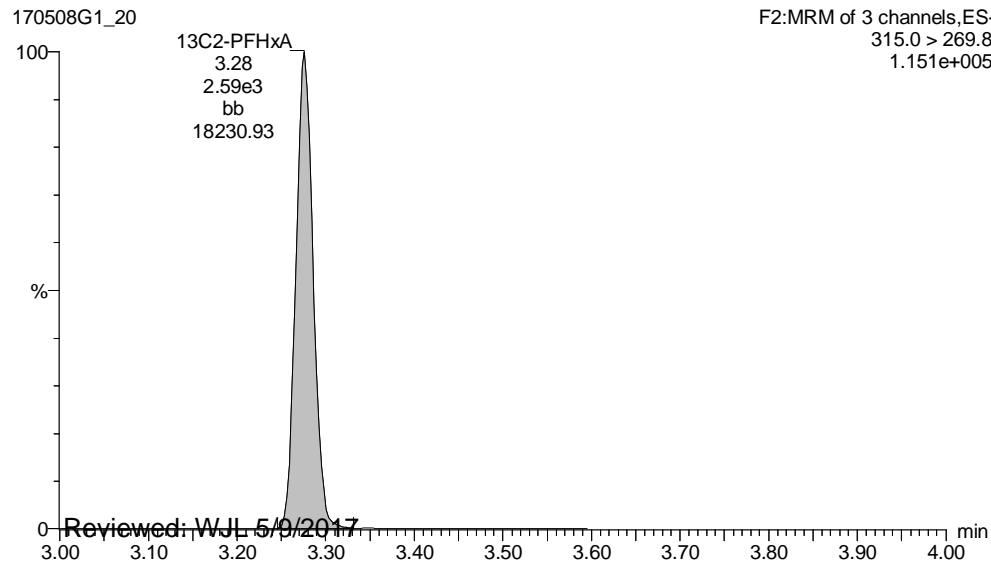
**PFOS**



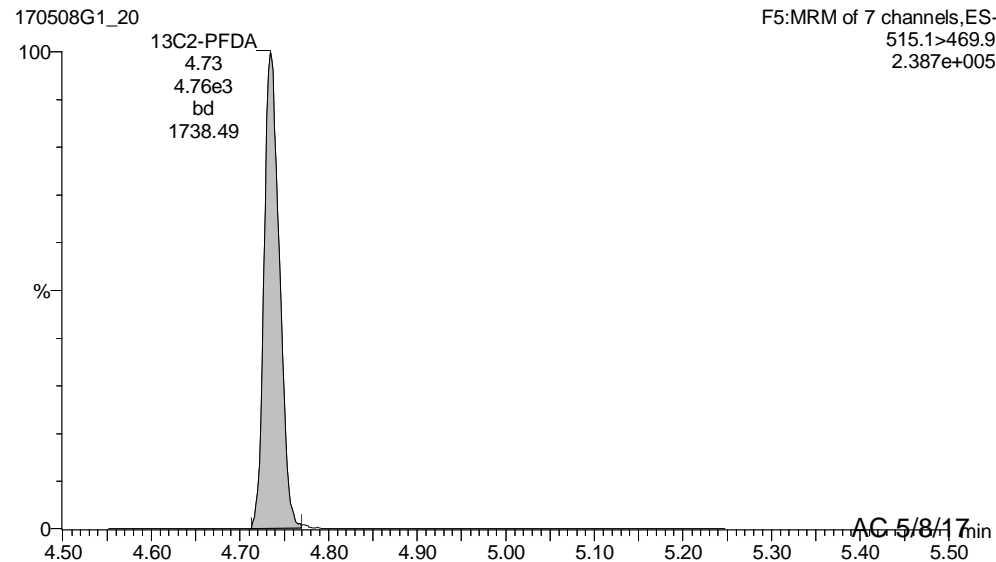
**PFNA**



**13C2-PFHxA**



**13C2-PFDA**



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-20.qld

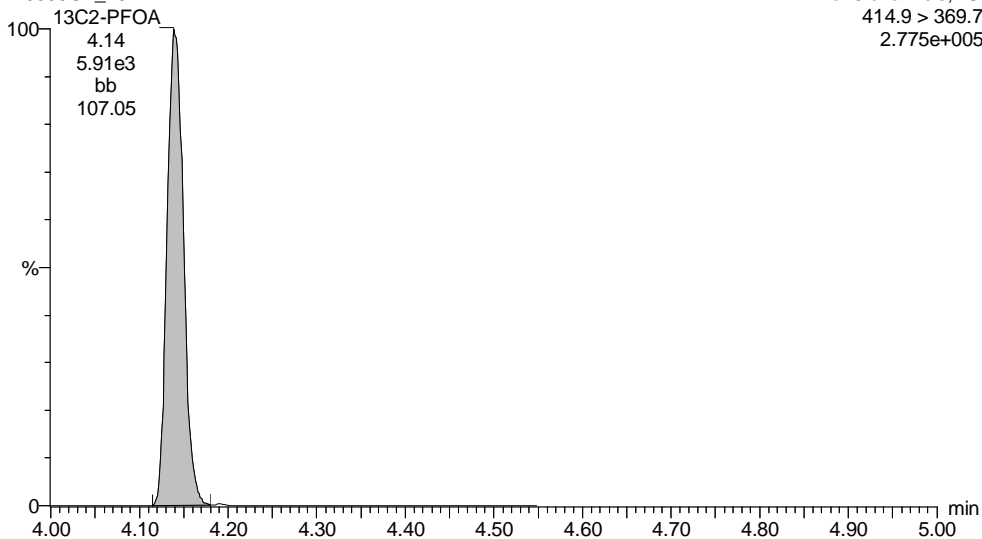
Last Altered: Monday, May 08, 2017 14:29:10 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:29:43 Pacific Daylight Time

ID: 1700550-04 FRB12-20170501 0.26475, Description: FRB12-20170501, Name: 170508G1\_20, Date: 08-May-2017, Time: 13:57:27, Instrument: , Lab: , User:

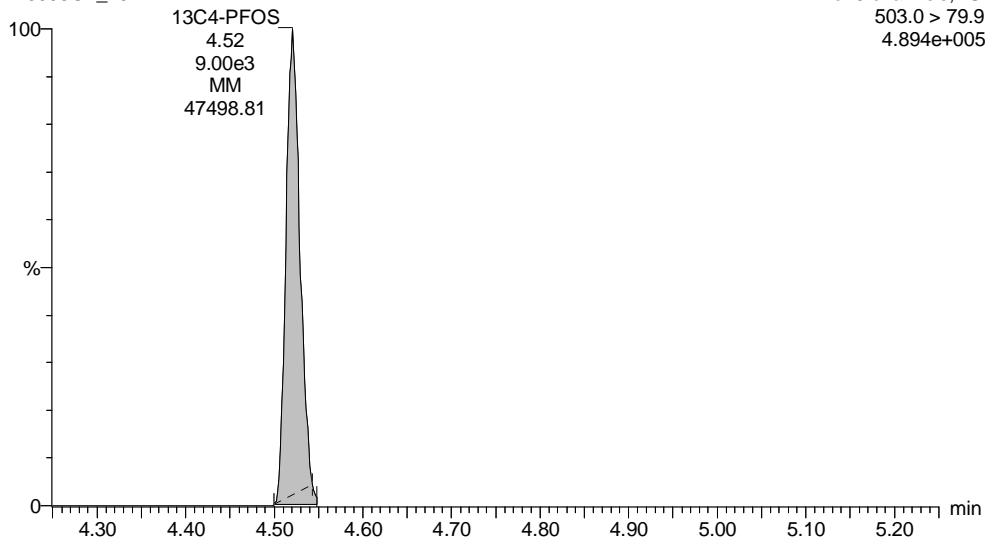
**13C2-PFOA**

170508G1\_20



**13C4-PFOS**

170508G1\_20



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-21.qld

Last Altered: Monday, May 08, 2017 14:38:44 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:39:18 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-05 RW13-20170501 0.24554, Description: RW13-20170501, Name: 170508G1\_21, Date: 08-May-2017, Time: 14:09:53

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		9.695e3		0.246			
2	2 PFHpA	363 > 318.9	2.056e1	6.543e3		0.246	3.75	0.117	
3	3 PFHxS	398.9 > 79.6	3.120e1	9.695e3		0.246	3.86	0.306	
4	4 PFOA	413 > 368.7	7.442e1	6.543e3		0.246	4.14	0.563	
5	5 PFOS	499 > 79.9	3.152e0	9.695e3		0.246	4.53	0.106	
6	6 PFNA	463 > 418.8	2.096e1	6.543e3		0.246	4.47	0.0819	
7	7 13C2-PFHxA	315.0 > 269.8	2.530e3	6.543e3	0.401	0.246	3.28	39.3	96.4
8	8 13C2-PFDA	515.1 > 469.9	4.763e3	6.543e3	0.748	0.246	4.74	39.6	97.3
9	9 13C2-PFOA	414.9 > 369.7	6.543e3	6.543e3	1.000	0.246	4.14	40.7	100
10	10 13C4-PFOS	503.0 > 79.9	9.695e3	9.695e3	1.000	0.246	4.52	117	100

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-21.qld

Last Altered: Monday, May 08, 2017 14:38:44 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:39:18 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

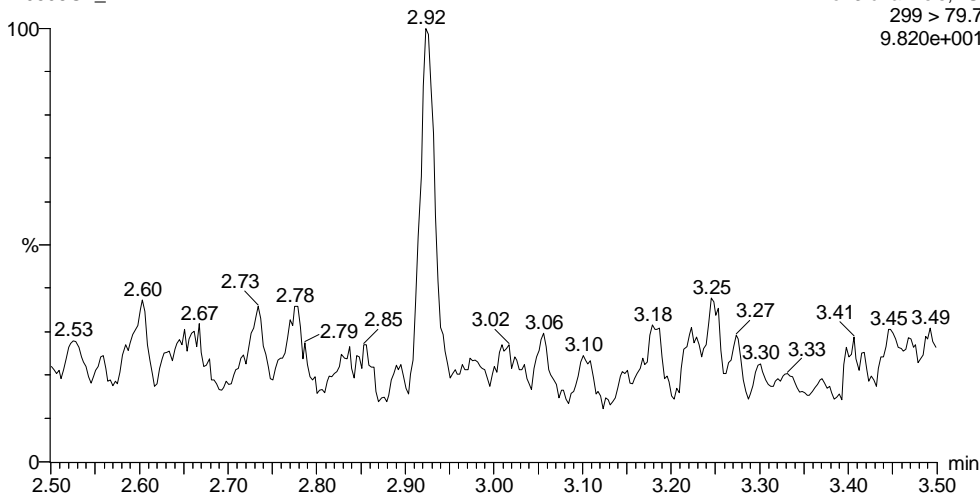
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-05 RW13-20170501 0.24554, Description: RW13-20170501, Name: 170508G1\_21, Date: 08-May-2017, Time: 14:09:53, Instrument: , Lab: , User:

**PFBS**

170508G1\_21

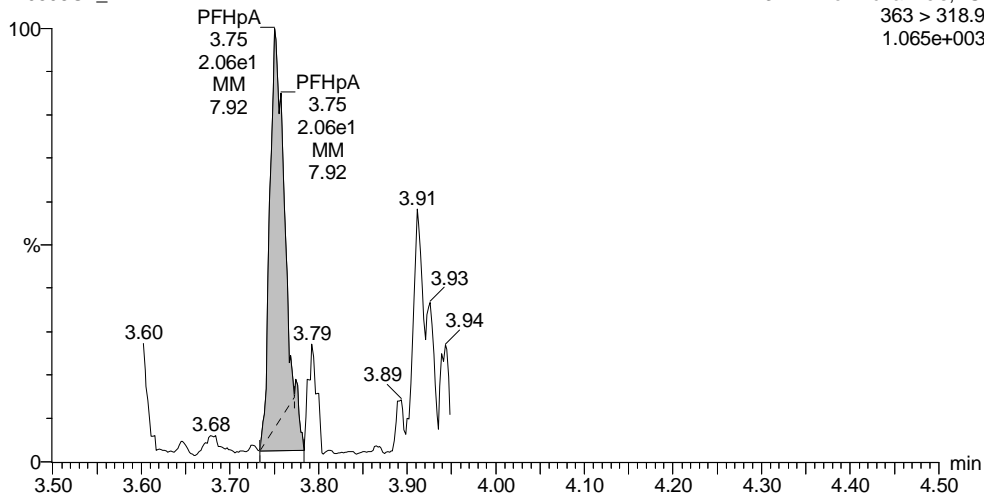
F2:MRM of 3 channels,ES-  
299 > 79.7  
9.820e+001



**PFHpA**

170508G1\_21

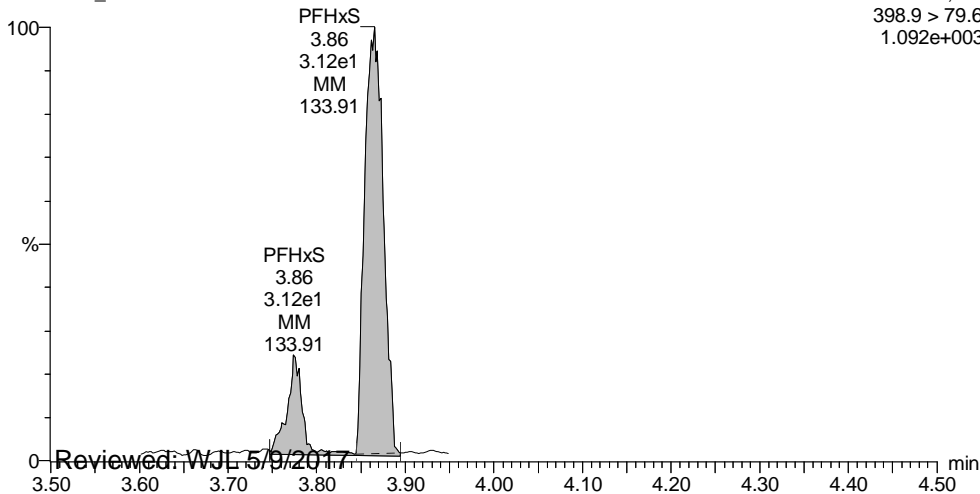
F3:MRM of 2 channels,ES-  
363 > 318.9  
1.065e+003



**PFHxS**

170508G1\_21

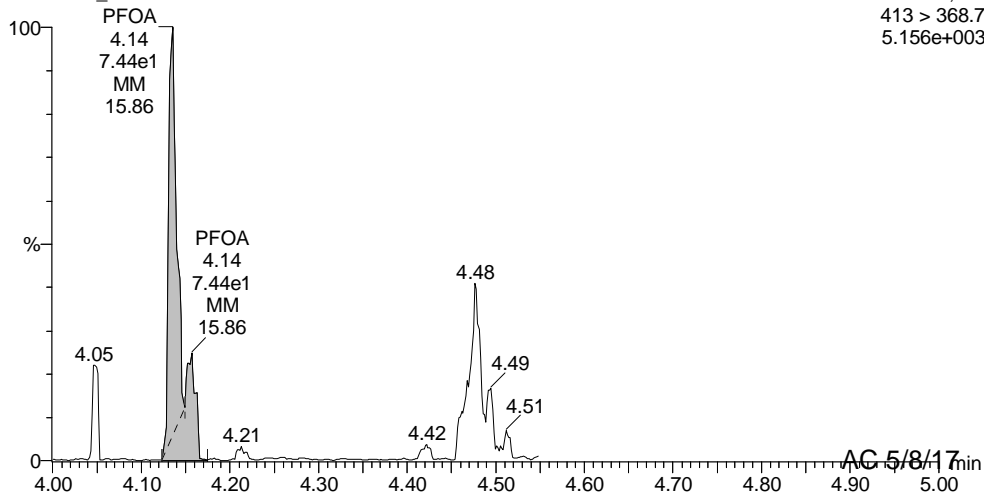
F3:MRM of 2 channels,ES-  
398.9 > 79.6  
1.092e+003



**PFOA**

170508G1\_21

F4:MRM of 6 channels,ES-  
413 > 368.7  
5.156e+003



Reviewed: WJL 5/9/2017

AC 5/8/17 min

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-21.qld

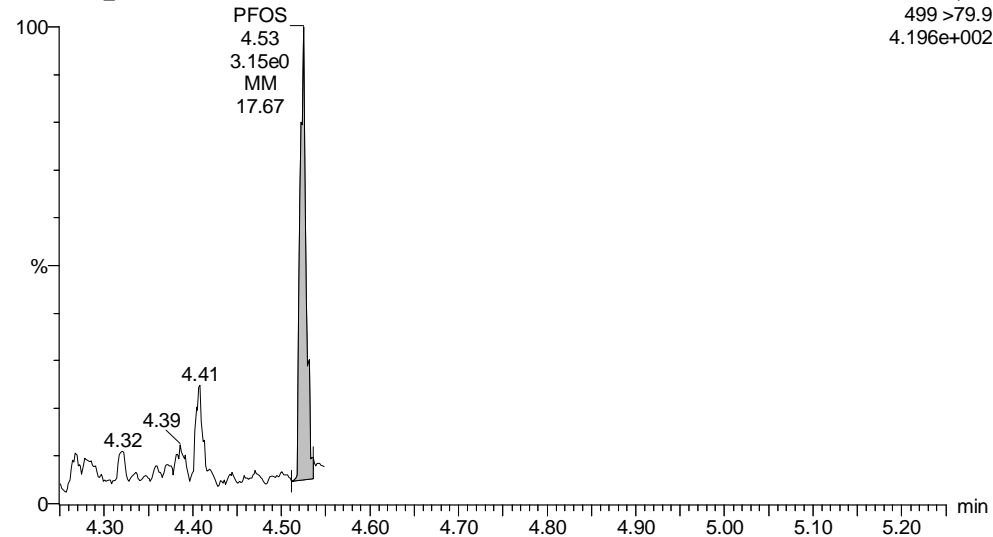
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Printed: Monday, May 08, 2017 14:39:18 Pacific Daylight Time

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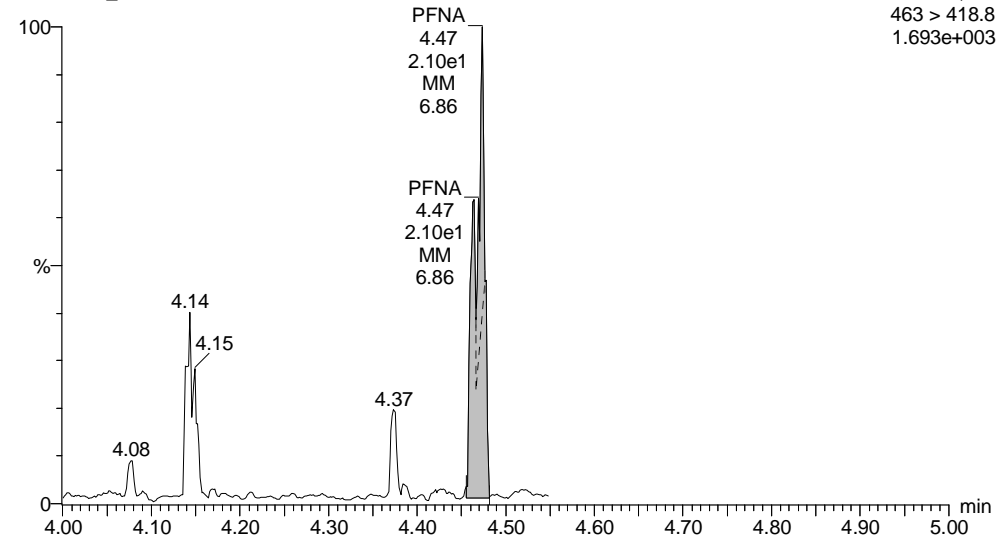
**PFOS**

170508G1\_21



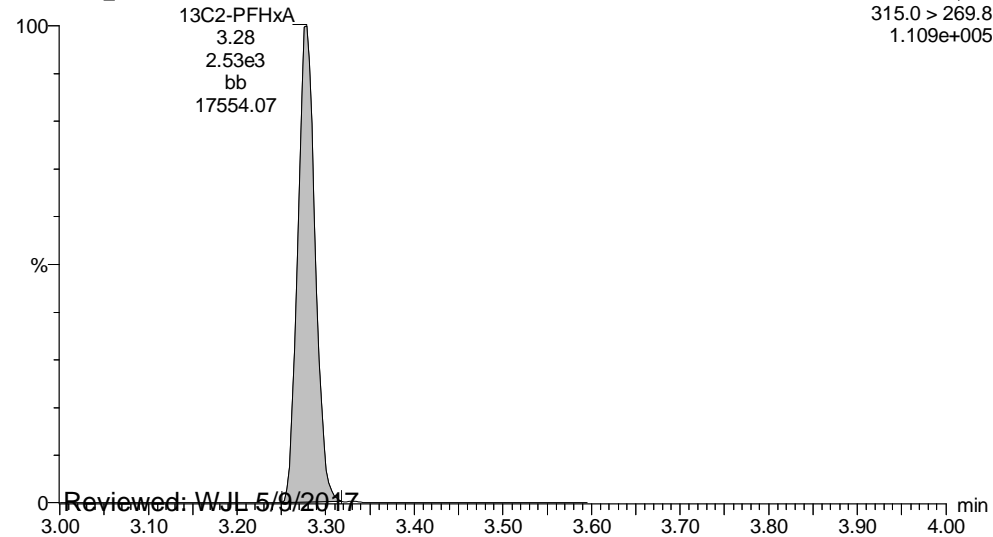
**PFNA**

170508G1\_21



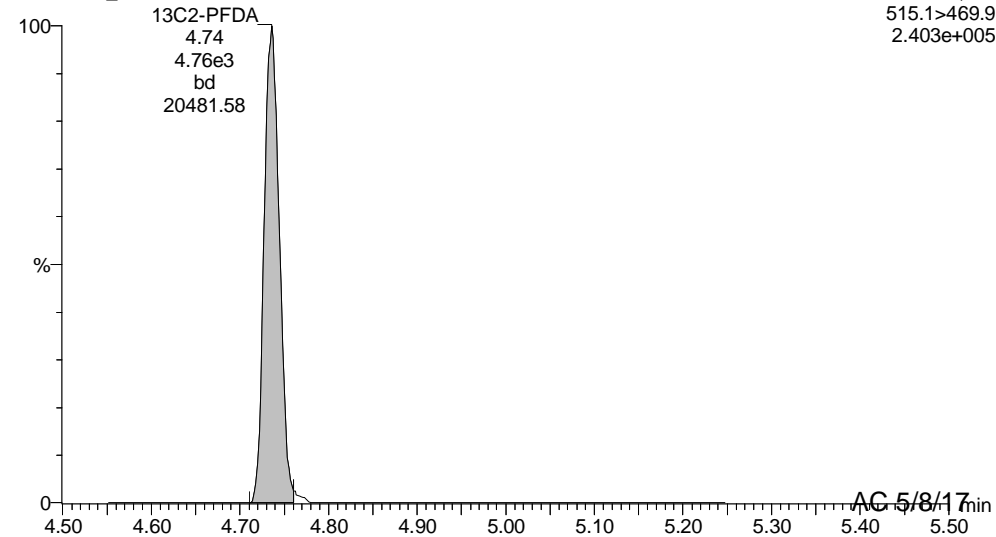
**13C2-PFHxA**

170508G1\_21



**13C2-PFDA**

170508G1\_21



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-21.qld

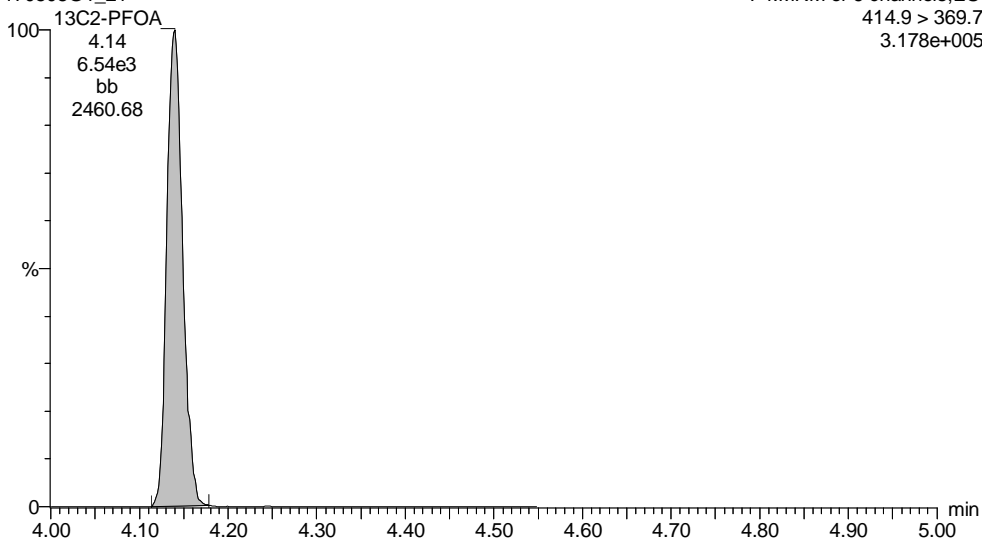
Last Altered: Monday, May 08, 2017 14:38:44 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:39:18 Pacific Daylight Time

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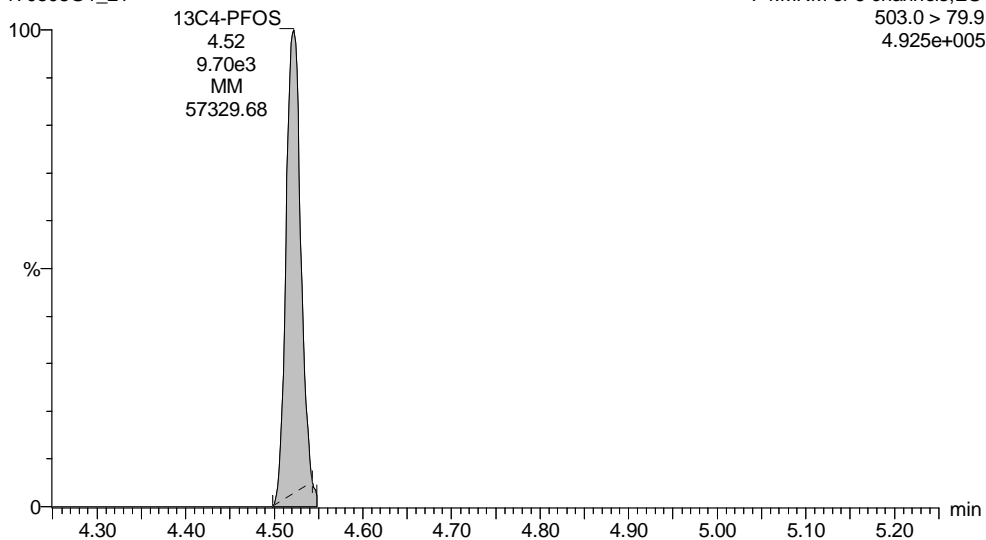
**13C2-PFOA**

170508G1\_21



**13C4-PFOS**

170508G1\_21



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-22.qld

Last Altered: Monday, May 08, 2017 14:50:13 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:50:41 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-06 FRB13-20170501 0.26467, Description: FRB13-20170501, Name: 170508G1\_22, Date: 08-May-2017, Time: 14:22:15

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		9.419e3		0.265			
2	2 PFHpA	363 > 318.9		5.856e3		0.265			
3	3 PFHxS	398.9 > 79.6		9.419e3		0.265			
4	4 PFOA	413 > 368.7	1.875e1	5.856e3		0.265	4.15	0.147	
5	5 PFOS	499 > 79.9		9.419e3		0.265			
6	6 PFNA	463 > 418.8		5.856e3		0.265			
7	7 13C2-PFHxA	315.0 > 269.8	2.451e3	5.856e3	0.401	0.265	3.28	39.4	104
8	8 13C2-PFDA	515.1 > 469.9	4.563e3	5.856e3	0.748	0.265	4.74	39.3	104
9	9 13C2-PFOA	414.9 > 369.7	5.856e3	5.856e3	1.000	0.265	4.14	37.8	100
10	10 13C4-PFOS	503.0 > 79.9	9.419e3	9.419e3	1.000	0.265	4.52	108	100



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-22.qld

Last Altered: Monday, May 08, 2017 14:50:13 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:50:41 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

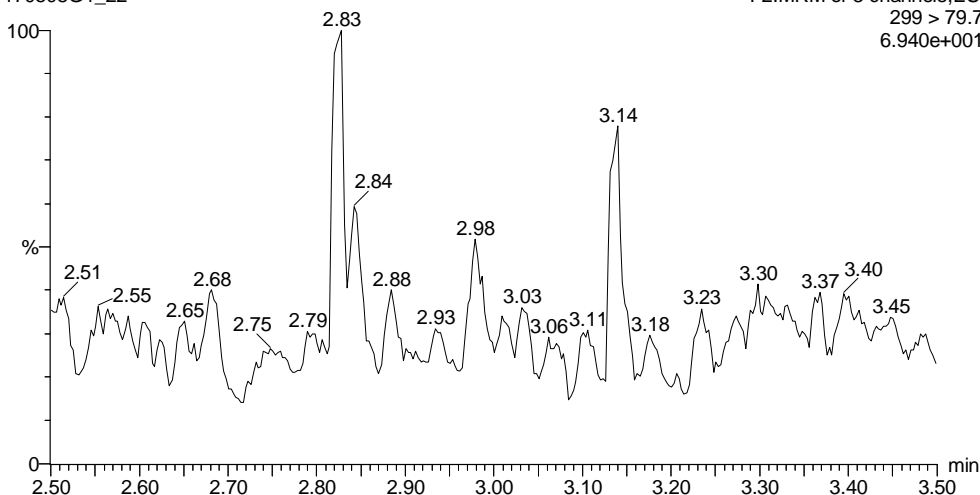
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-06 FRB13-20170501 0.26467, Description: FRB13-20170501, Name: 170508G1\_22, Date: 08-May-2017, Time: 14:22:15, Instrument: , Lab: , User:

**PFBS**

170508G1\_22

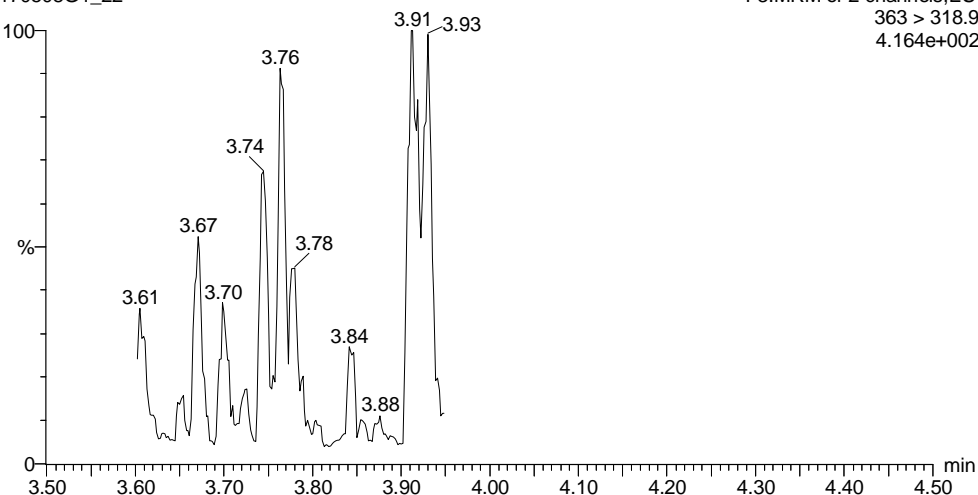
F2:MRM of 3 channels,ES-  
299 > 79.7  
6.940e+001



**PFHpA**

170508G1\_22

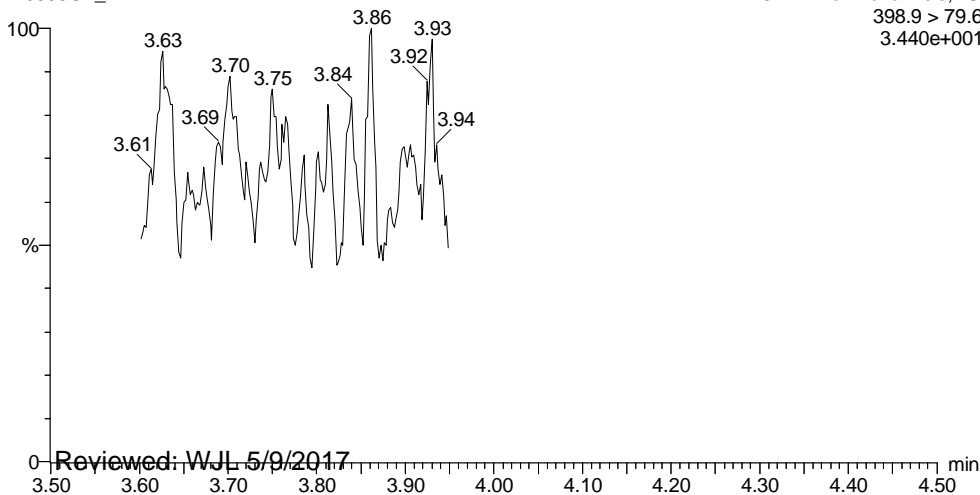
F3:MRM of 2 channels,ES-  
363 > 318.9  
4.164e+002



**PFHxS**

170508G1\_22

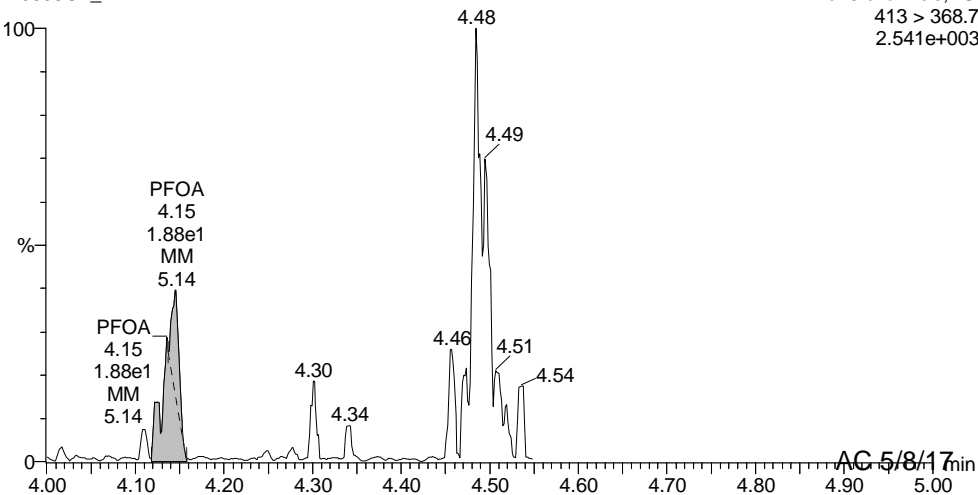
F3:MRM of 2 channels,ES-  
398.9 > 79.6  
3.440e+001



**PFOA**

170508G1\_22

F4:MRM of 6 channels,ES-  
413 > 368.7  
2.541e+003



Reviewed: WJL 5/9/2017

AC 5/8/17 min

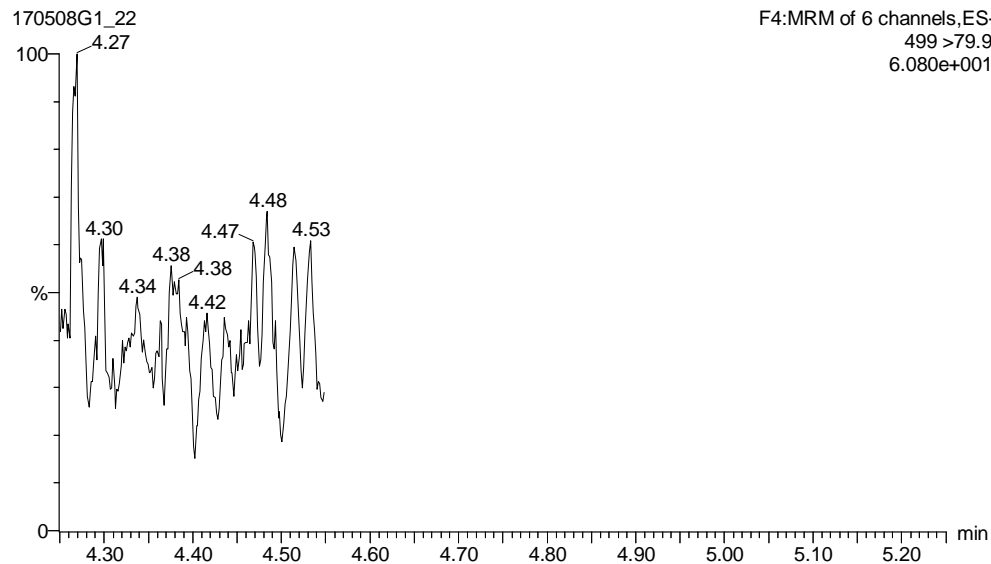
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Last Altered: Monday, May 08, 2017 14:50:13 Pacific Daylight Time

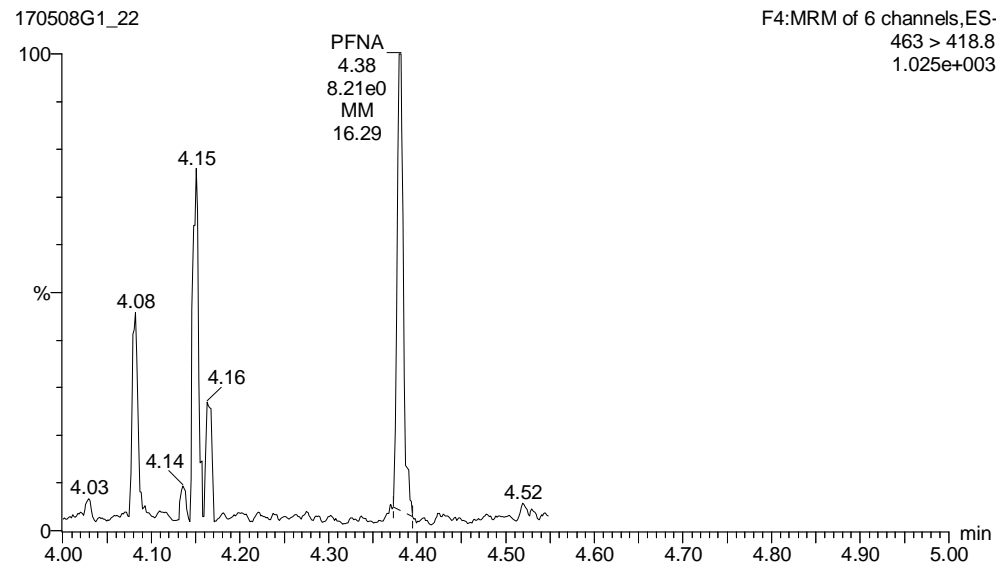
Printed: Monday, May 08, 2017 14:50:41 Pacific Daylight Time

ID: 1700550-06 FRB13-20170501 0.26467, Description: FRB13-20170501, Name: 170508G1\_22, Date: 08-May-2017, Time: 14:22:15, Instrument: , Lab: , User:

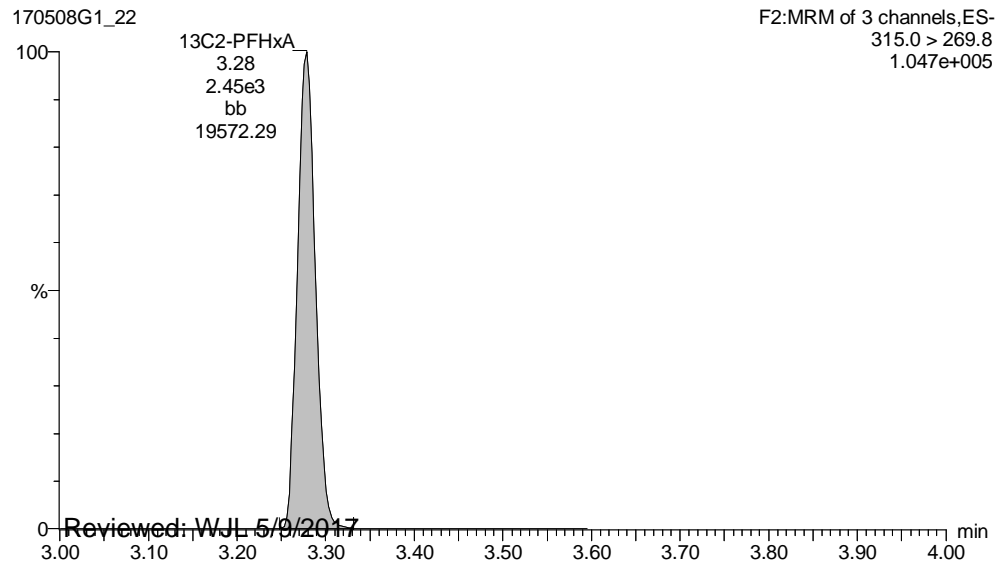
**PFOS**



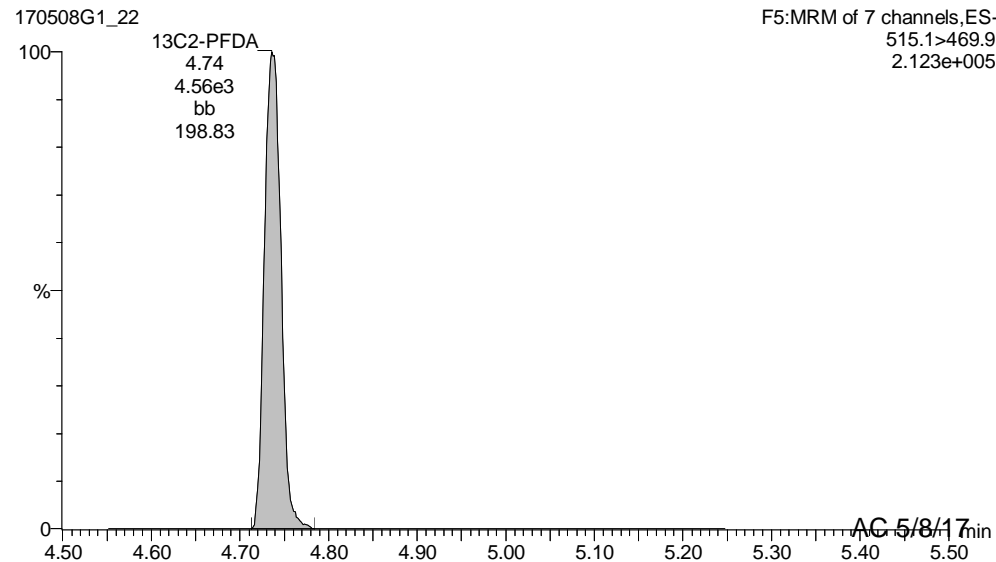
**PFNA**



**13C2-PFHxA**



**13C2-PFDA**



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-22.qld

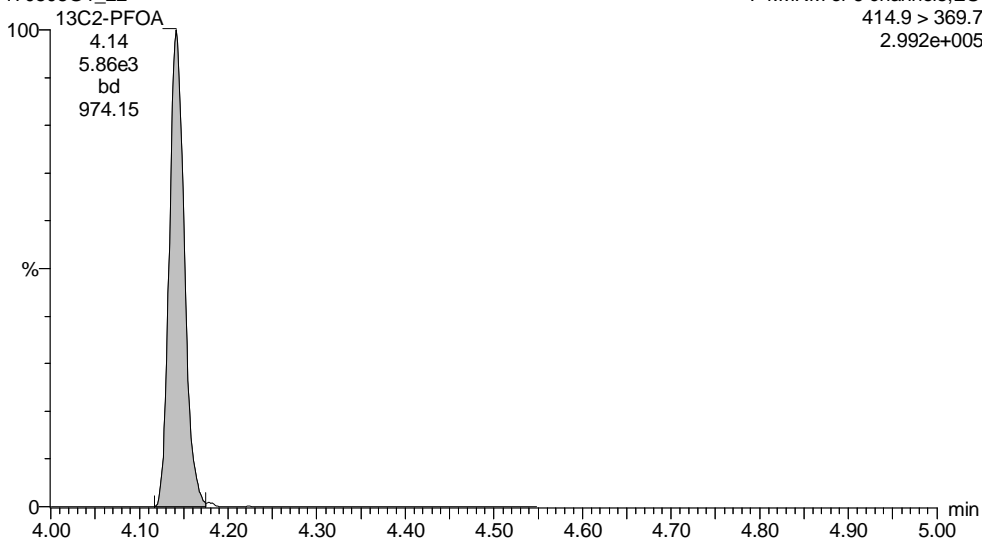
Last Altered: Monday, May 08, 2017 14:50:13 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:50:41 Pacific Daylight Time

ID: 1700550-06 FRB13-20170501 0.26467, Description: FRB13-20170501, Name: 170508G1\_22, Date: 08-May-2017, Time: 14:22:15, Instrument: , Lab: , User:

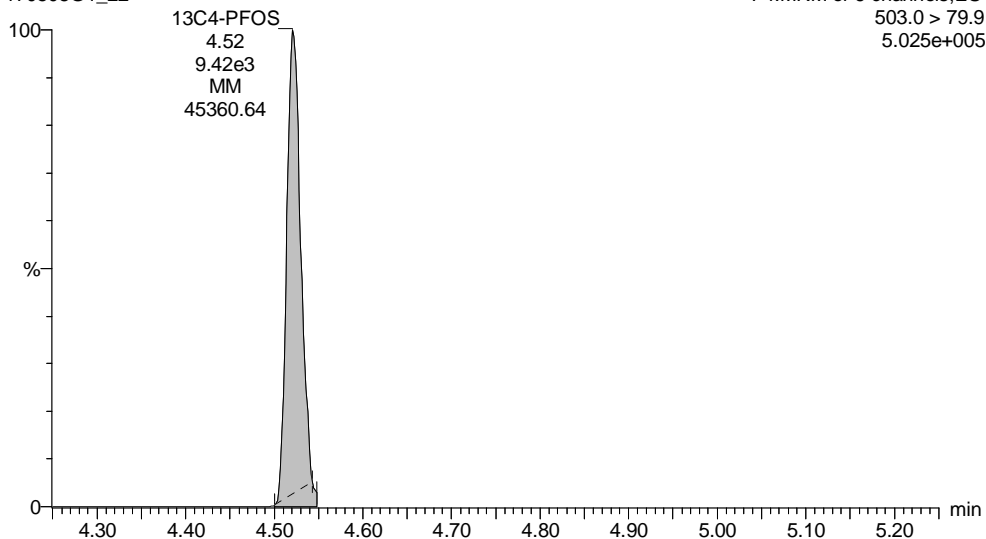
**13C2-PFOA**

170508G1\_22



**13C4-PFOS**

170508G1\_22



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-23.qld

Last Altered: Monday, May 08, 2017 15:03:33 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:04:22 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-07 RW13G-20170501 0.26009, Description: RW13G-20170501, Name: 170508G1\_23, Date: 08-May-2017, Time: 14:34:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	2.049e2	1.008e4		0.260	2.92	2.14	
2	2 PFHpA	363 > 318.9	6.447e2	6.164e3		0.260	3.76	3.71	
3	3 PFHxS	398.9 > 79.6	1.471e3	1.008e4		0.260	3.86	13.3	
4	4 PFOA	413 > 368.7	1.198e3	6.164e3		0.260	4.14	9.16	
5	5 PFOS	499 > 79.9	4.794e2	1.008e4		0.260	4.52	14.9	
6	6 PFNA	463 > 418.8	1.232e3	6.164e3		0.260	4.46	4.85	
7	7 13C2-PFHxA	315.0 > 269.8	2.493e3	6.164e3	0.401	0.260	3.28	38.8	101
8	8 13C2-PFDA	515.1 > 469.9	5.192e3	6.164e3	0.748	0.260	4.74	43.3	113
9	9 13C2-PFOA	414.9 > 369.7	6.164e3	6.164e3	1.000	0.260	4.14	38.4	100
10	10 13C4-PFOS	503.0 > 79.9	1.008e4	1.008e4	1.000	0.260	4.52	110	100

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-23.qld

Last Altered: Monday, May 08, 2017 15:03:33 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:04:22 Pacific Daylight Time

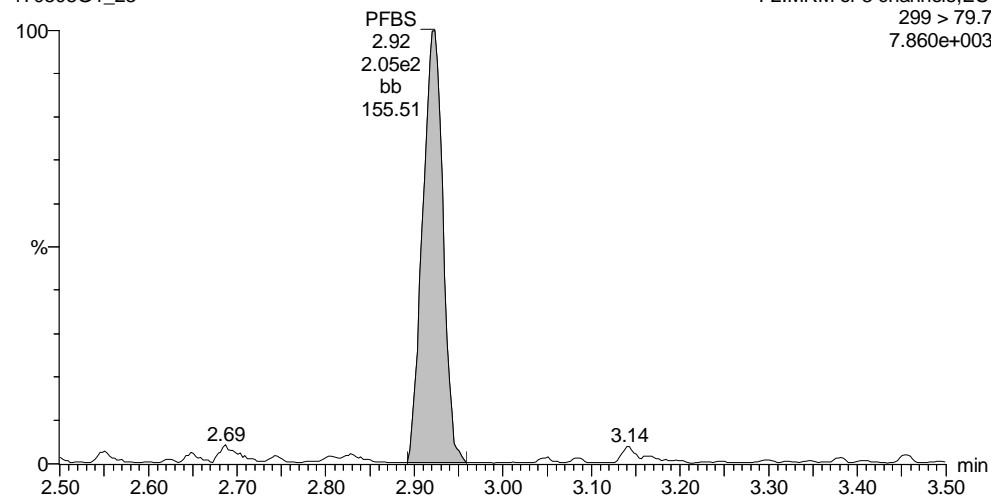
Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-07 RW13G-20170501 0.26009, Description: RW13G-20170501, Name: 170508G1\_23, Date: 08-May-2017, Time: 14:34:37, Instrument: , Lab: , User:

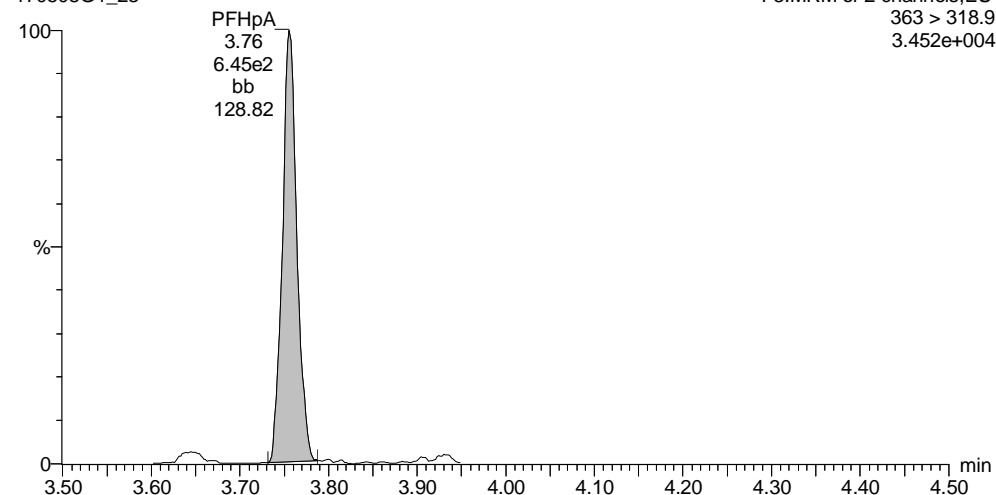
**PFBS**

170508G1\_23



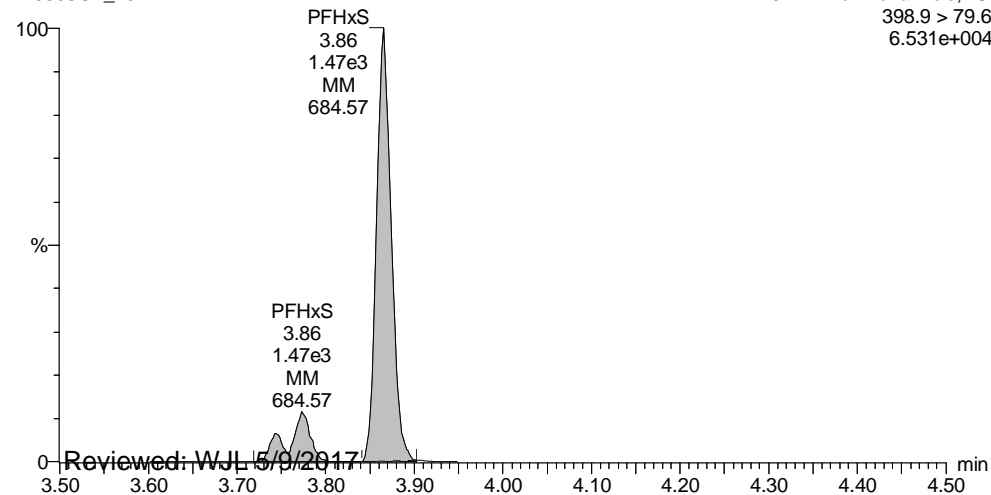
**PFHpA**

170508G1\_23



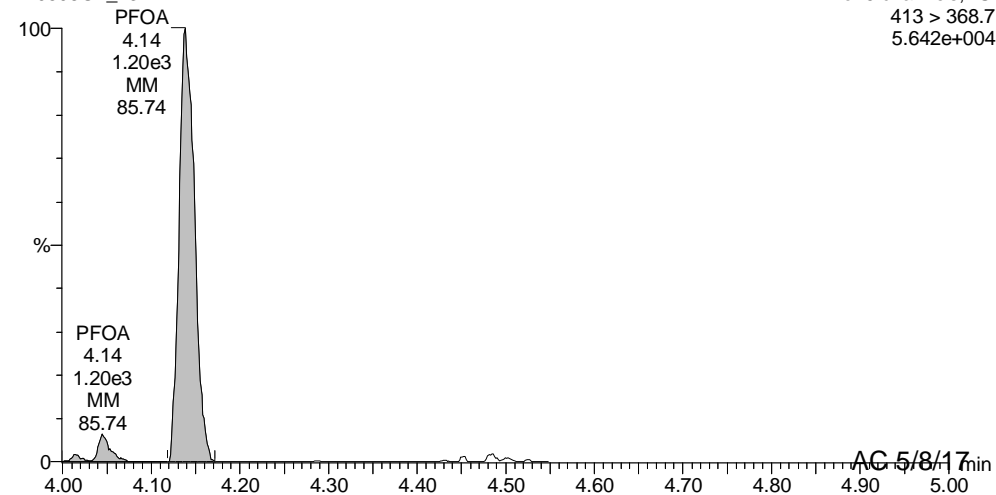
**PFHxS**

170508G1\_23



**PFOA**

170508G1\_23



Reviewed: WJL 5/9/2017

AC 5/8/17 min

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-23.qld

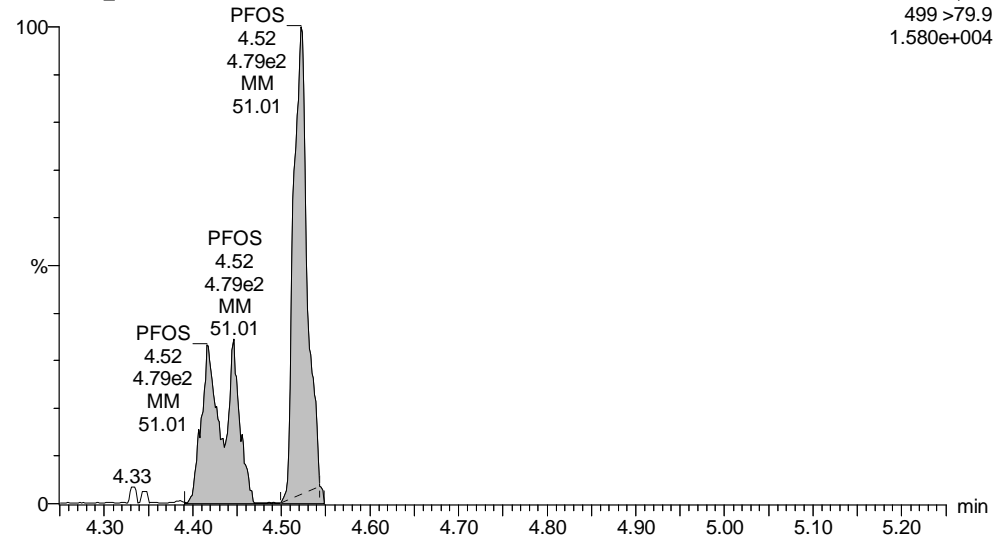
Last Altered: Monday, May 08, 2017 15:03:33 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:04:22 Pacific Daylight Time

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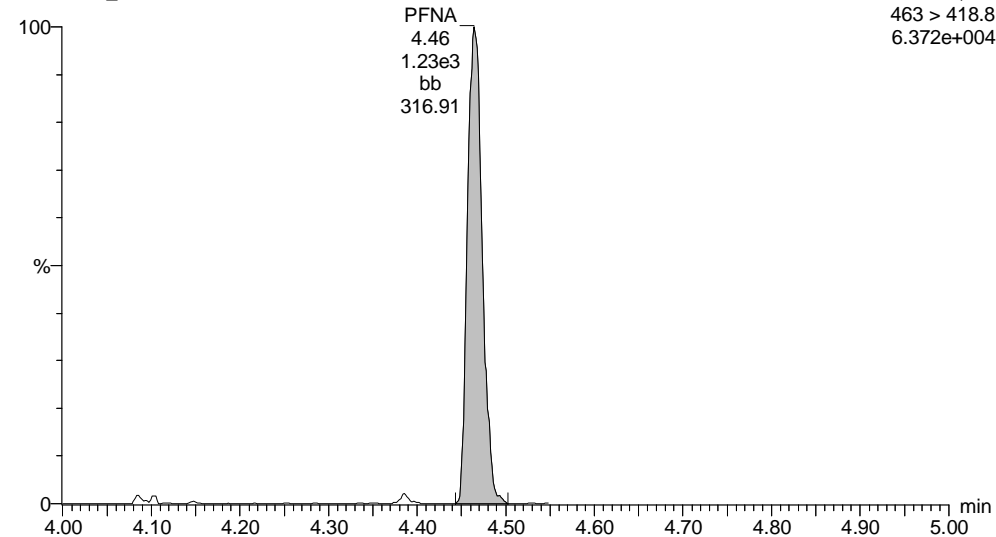
**PFOS**

170508G1\_23



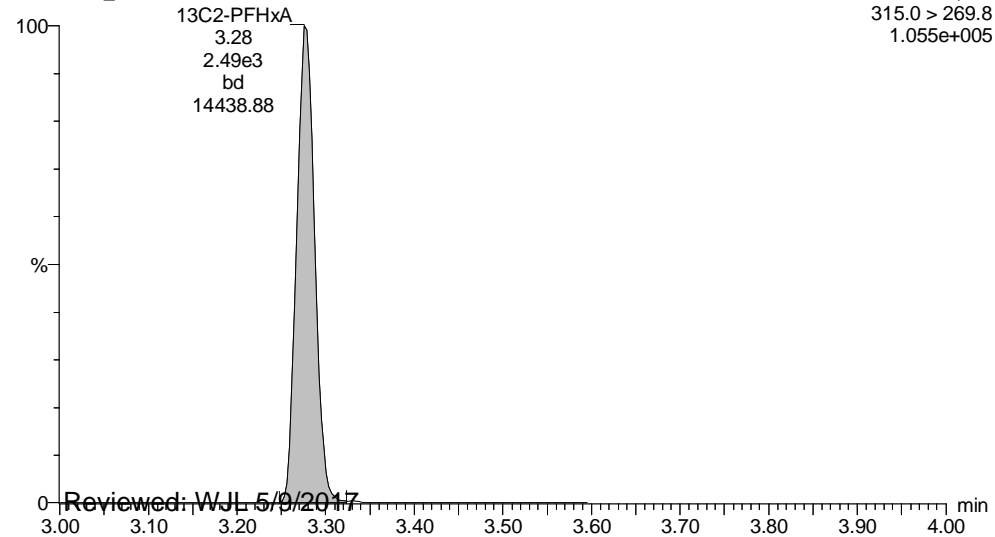
**PFNA**

170508G1\_23



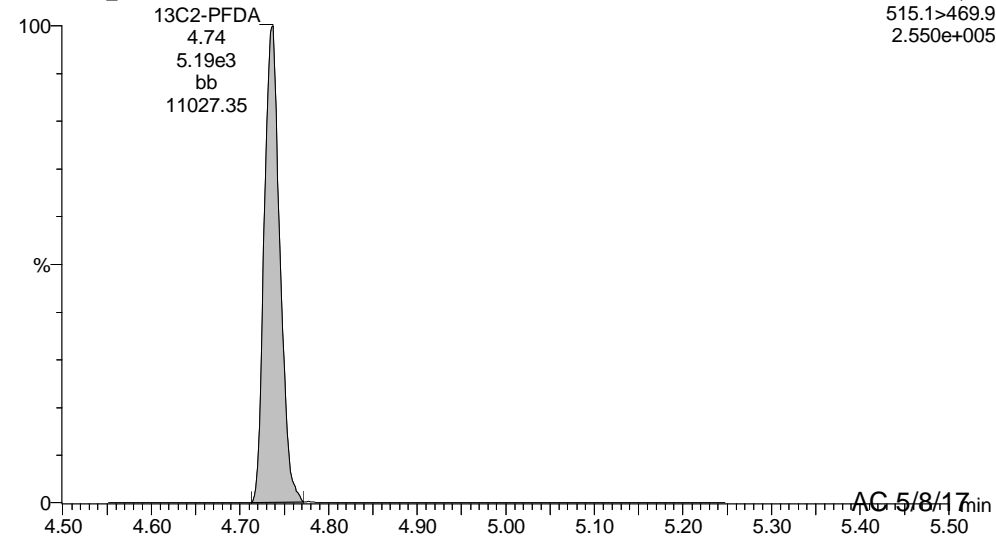
**13C2-PFHxA**

170508G1\_23



**13C2-PFDA**

170508G1\_23



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-23.qld

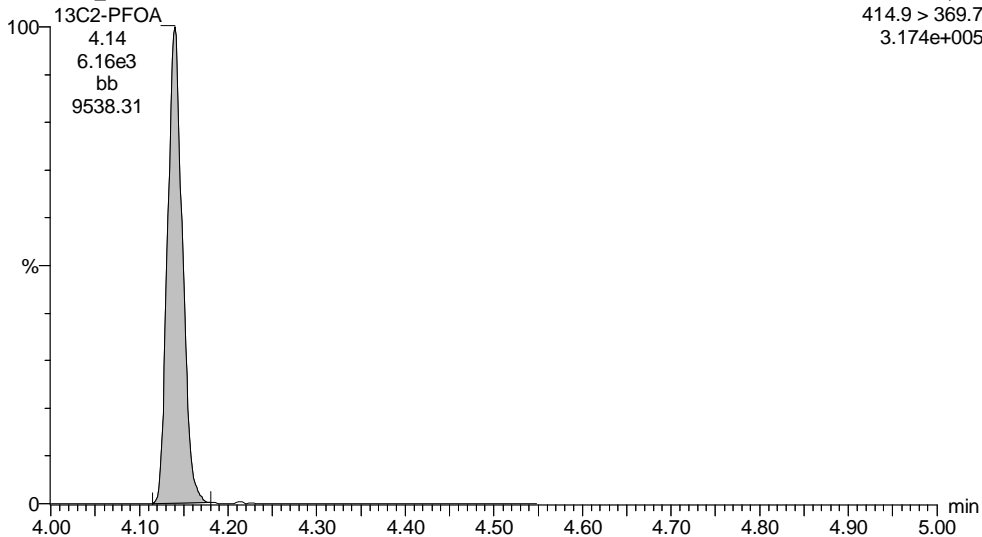
Last Altered: Monday, May 08, 2017 15:03:33 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:04:22 Pacific Daylight Time

ID: 1700550-07 RW13G-20170501 0.26009, Description: RW13G-20170501, Name: 170508G1\_23, Date: 08-May-2017, Time: 14:34:37, Instrument: , Lab: , User:

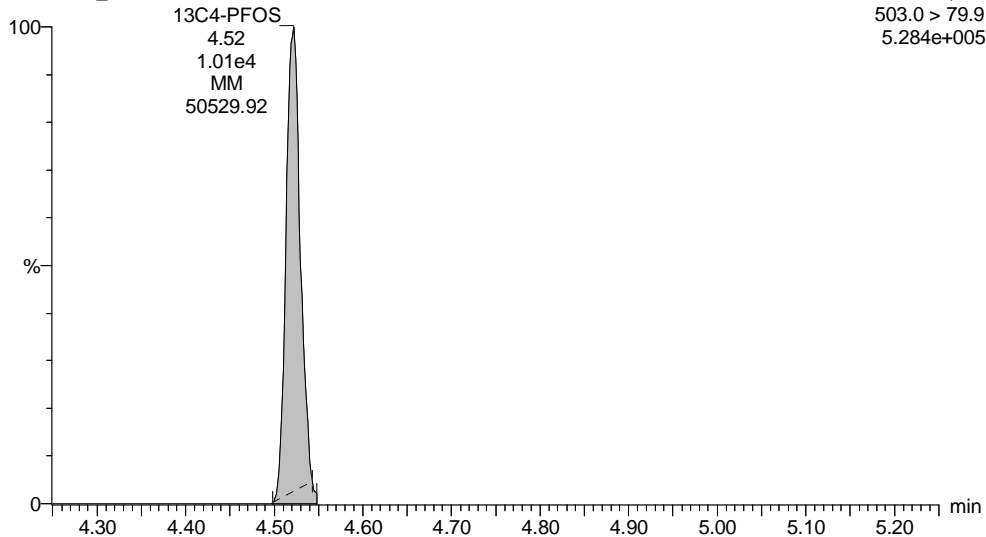
**13C2-PFOA**

170508G1\_23



**13C4-PFOS**

170508G1\_23



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-24.qld

Last Altered: Monday, May 08, 2017 15:13:11 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:14:17 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-08 FRB13G-20170501 0.25888, Description: FRB13G-20170501, Name: 170508G1\_24, Date: 08-May-2017, Time: 14:47:00

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		1.023e4		0.259			
2	2 PFHpA	363 > 318.9		5.910e3		0.259			
3	3 PFHxS	398.9 > 79.6		1.023e4		0.259			
4	4 PFOA	413 > 368.7	1.912e1	5.910e3		0.259	4.11	0.152	
5	5 PFOS	499 > 79.9		1.023e4		0.259			
6	6 PFNA	463 > 418.8		5.910e3		0.259			
7	7 13C2-PFHxA	315.0 > 269.8	2.511e3	5.910e3	0.401	0.259	3.24	40.9	106
8	8 13C2-PFDA	515.1 > 469.9	4.949e3	5.910e3	0.748	0.259	4.71	43.2	112
9	9 13C2-PFOA	414.9 > 369.7	5.910e3	5.910e3	1.000	0.259	4.11	38.6	100
10	10 13C4-PFOS	503.0 > 79.9	1.023e4	1.023e4	1.000	0.259	4.50	111	100



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-24.qld

Last Altered: Monday, May 08, 2017 15:13:11 Pacific Daylight Time

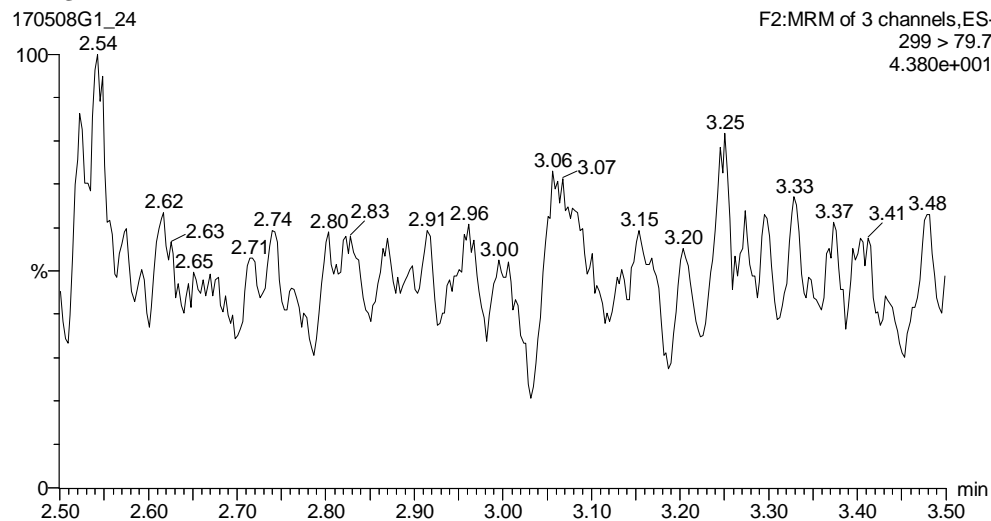
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Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

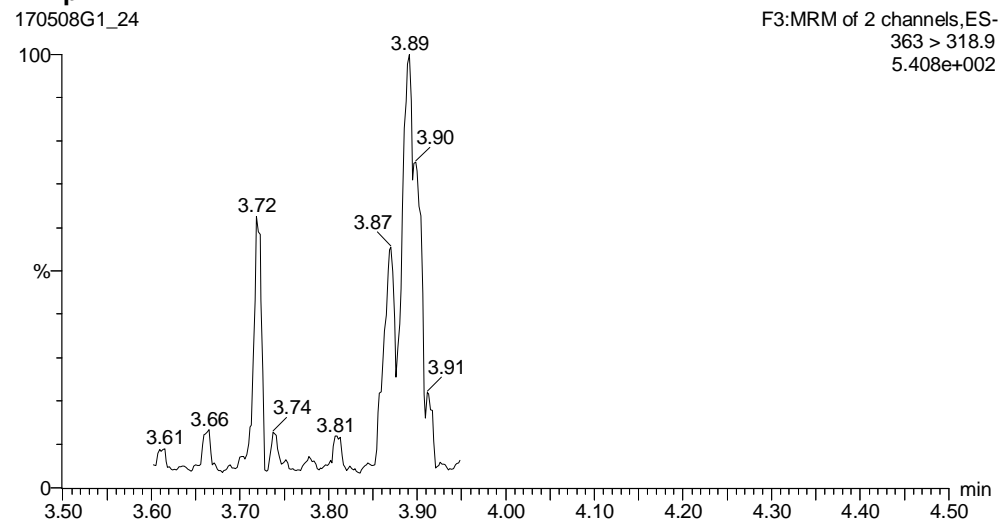
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-08 FRB13G-20170501 0.25888, Description: FRB13G-20170501, Name: 170508G1\_24, Date: 08-May-2017, Time: 14:47:00, Instrument: , Lab: , User:

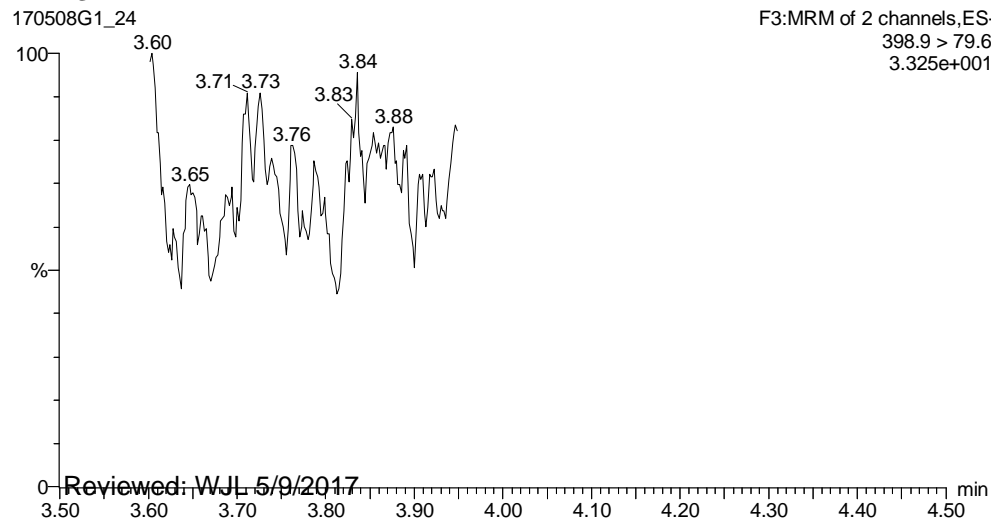
**PFBS**



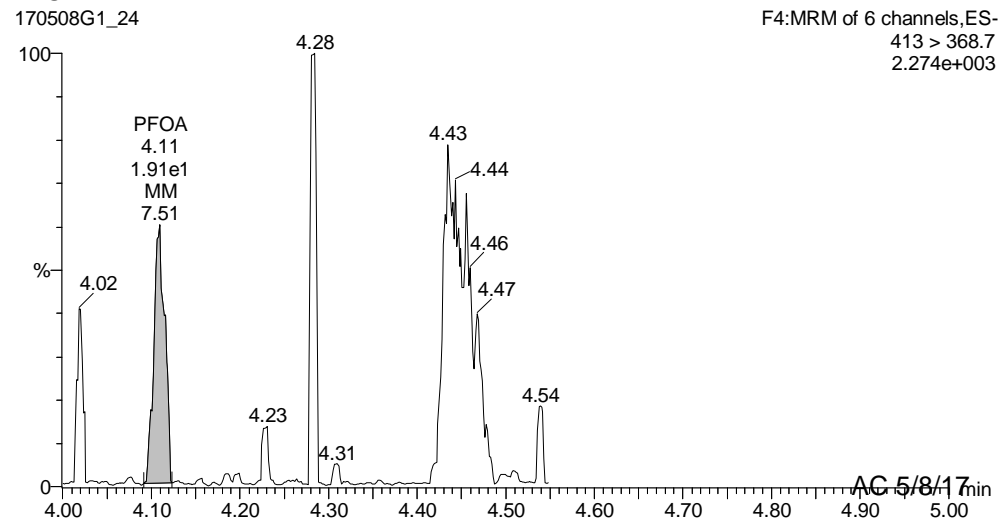
**PFHpA**



**PFHxS**



**PFOA**



Reviewed: WJL 5/9/2017

AC 5/8/17 min

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-24.qld

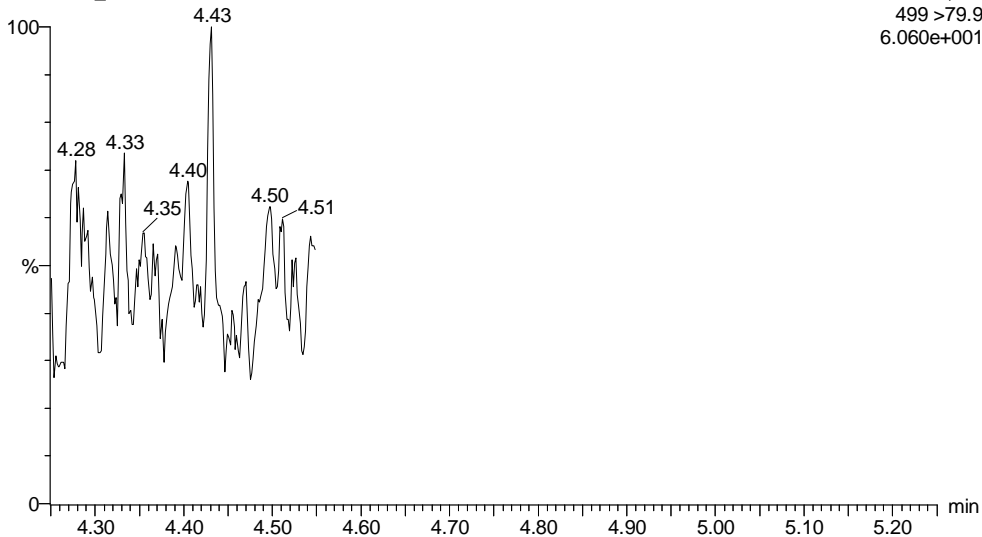
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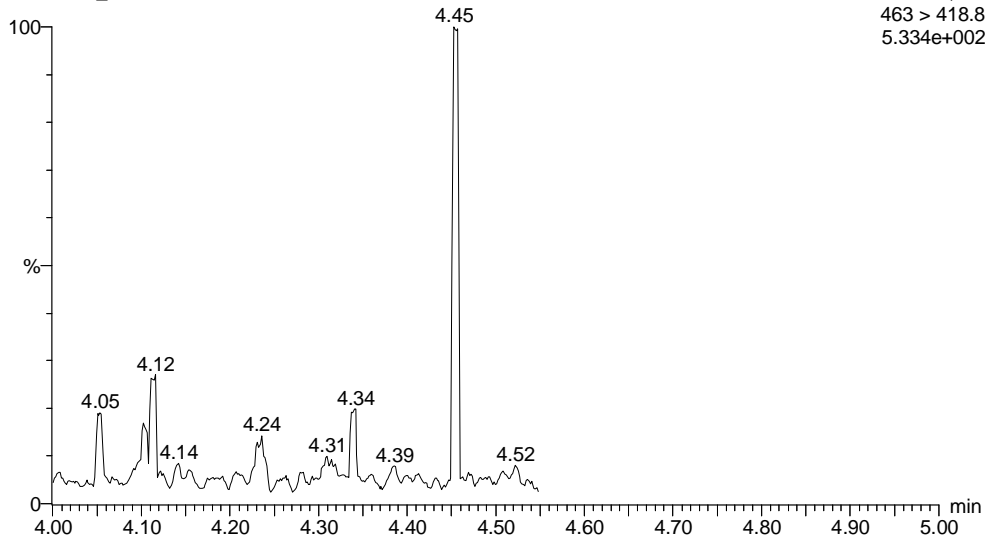
**PFOS**

170508G1\_24



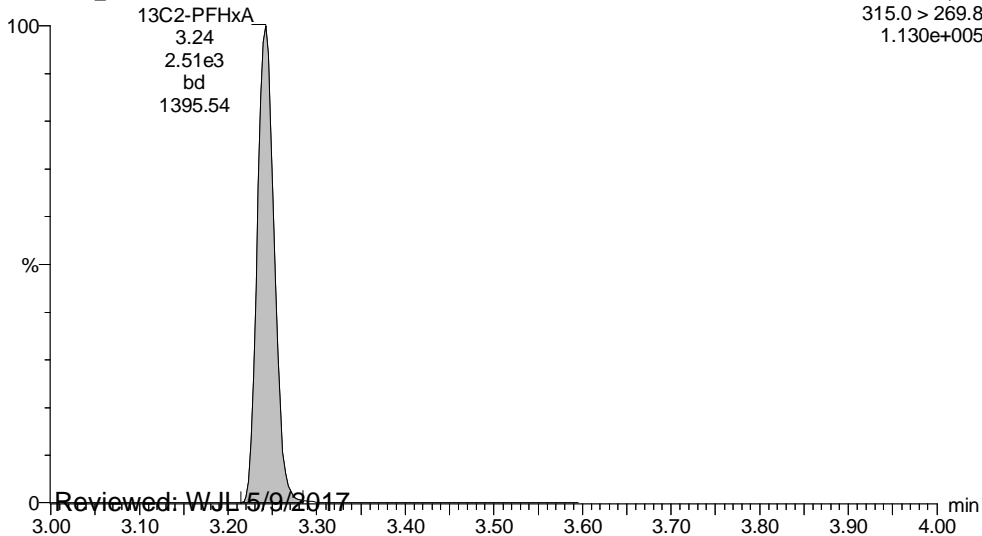
**PFNA**

170508G1\_24



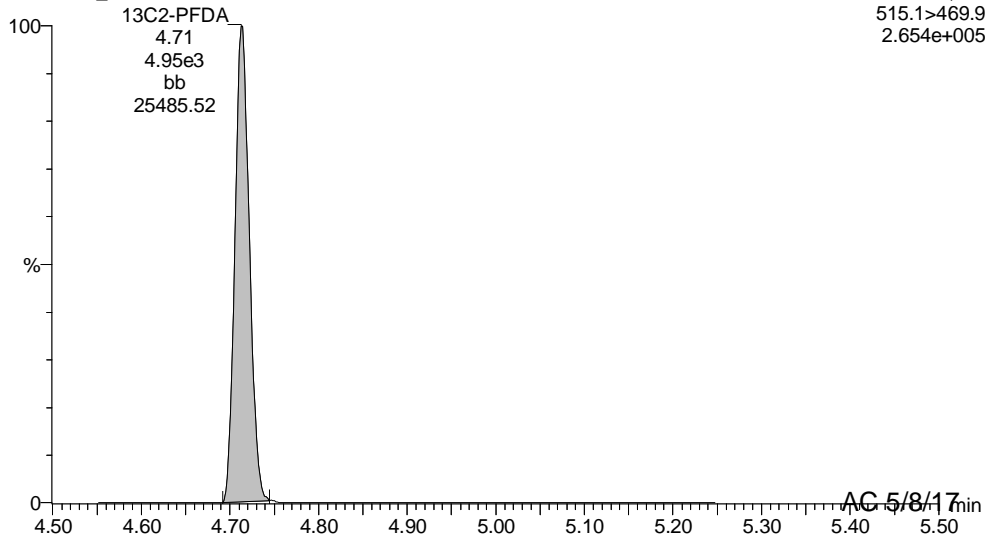
**13C2-PFHxA**

170508G1\_24



**13C2-PFDA**

170508G1\_24



Reviewed: WJL 5/9/2017

AC 5/8/17

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-24.qld

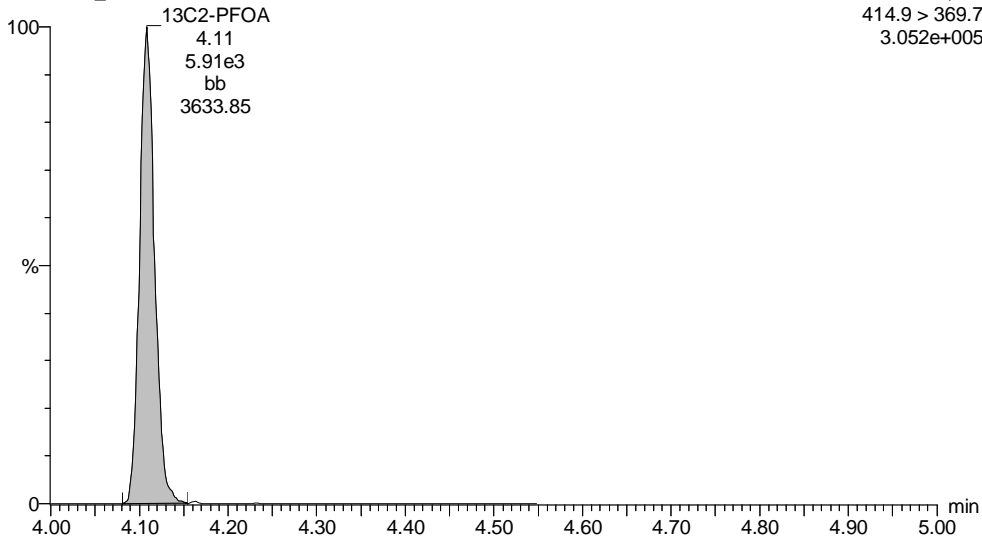
Last Altered: Monday, May 08, 2017 15:13:11 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:14:17 Pacific Daylight Time

ID: 1700550-08 FRB13G-20170501 0.25888, Description: FRB13G-20170501, Name: 170508G1\_24, Date: 08-May-2017, Time: 14:47:00, Instrument: , Lab: , User:

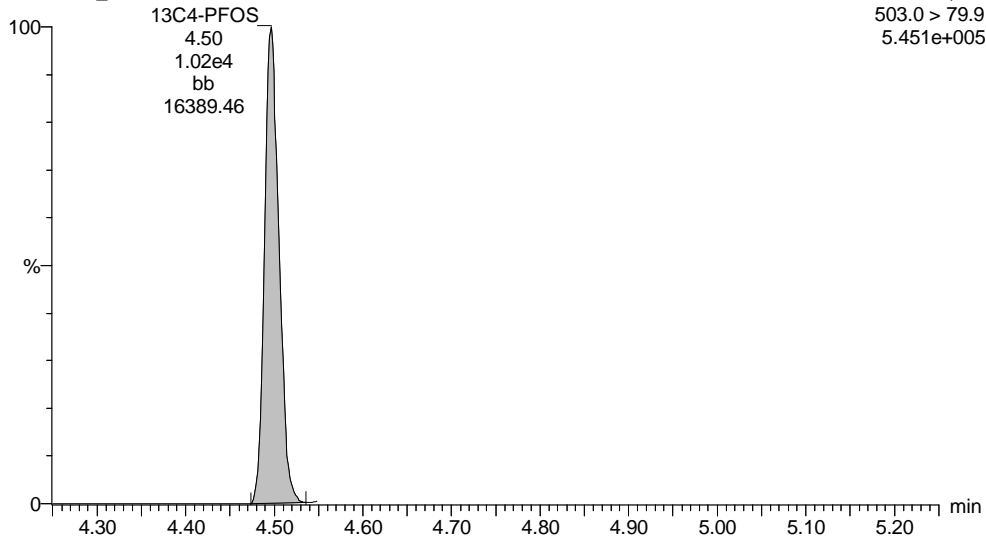
**13C2-PFOA**

170508G1\_24



**13C4-PFOS**

170508G1\_24



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-25.qld

Last Altered: Monday, May 08, 2017 15:20:34 Pacific Daylight Time

Printed: Tuesday, May 09, 2017 09:06:51 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-09 RW09-20170501 0.26564, Description: RW09-20170501, Name: 170508G1\_25, Date: 08-May-2017, Time: 15:02:50

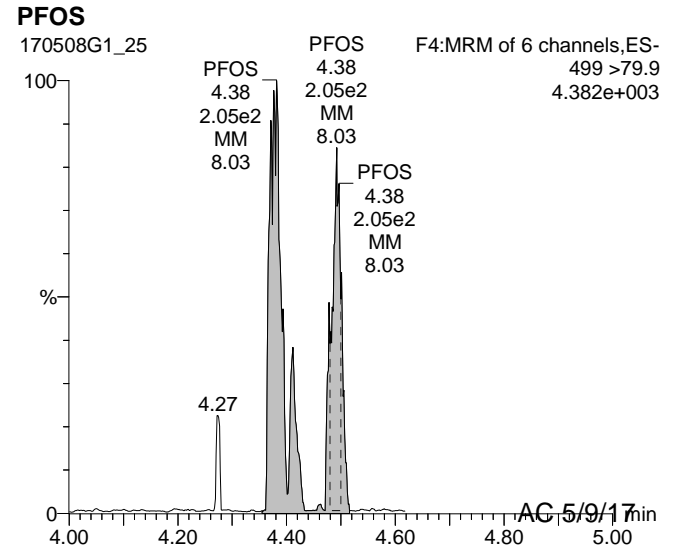
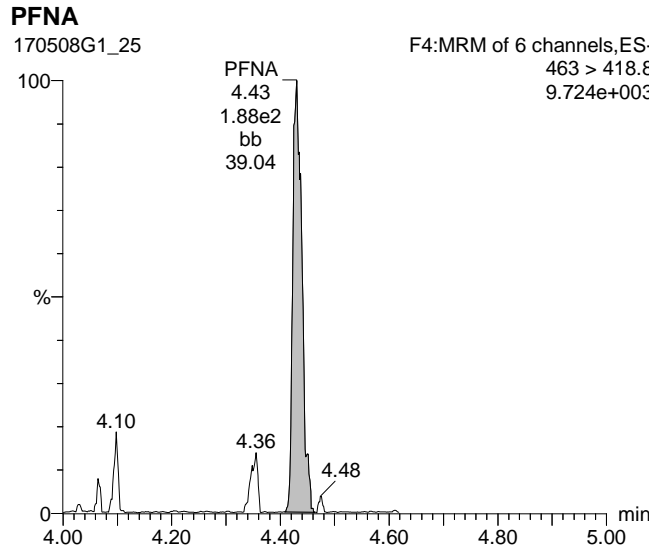
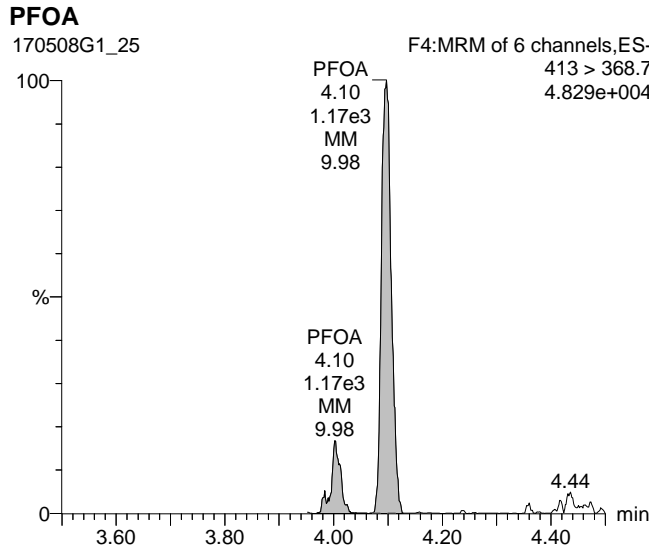
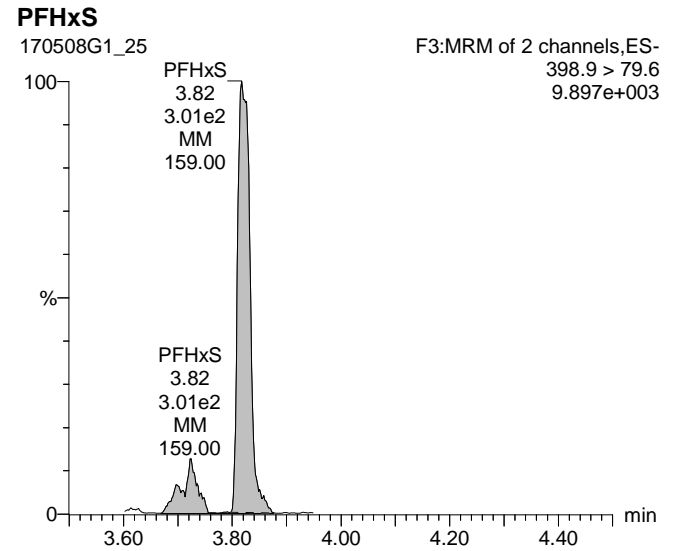
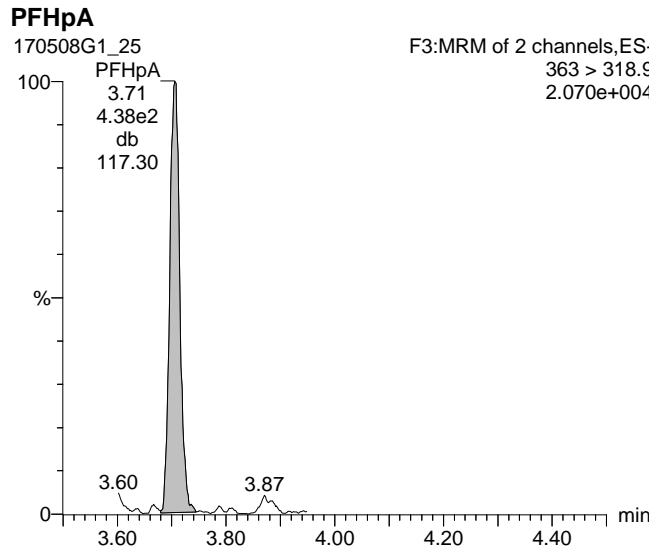
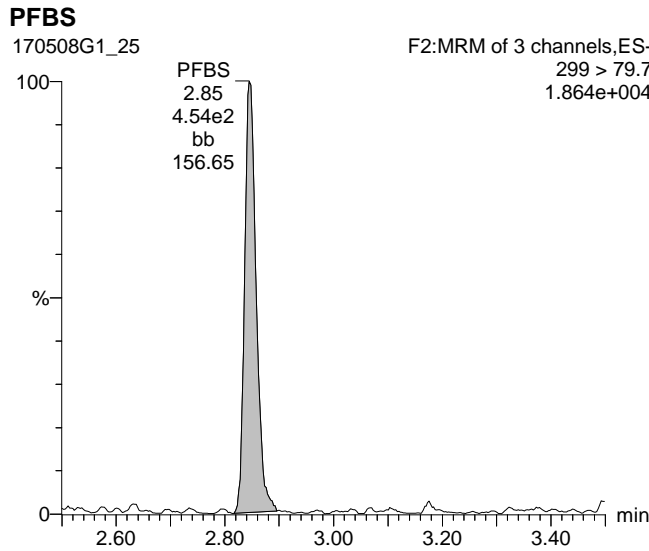
	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.537e2	1.042e4		0.266	2.85	4.51	
2	2 PFHpA	363 > 318.9	4.379e2	5.397e3		0.266	3.71	2.81	
3	3 PFHxS	398.9 > 79.6	3.007e2	1.042e4		0.266	3.82	2.54	
4	4 PFOA	413 > 368.7	1.170e3	5.397e3		0.266	4.10	10.0	
5	5 PFOS	499 > 79.9	2.046e2	1.042e4		0.266	4.38	5.96	
6	6 PFNA	463 > 418.8	1.879e2	5.397e3		0.266	4.43	0.823	
7	7 13C2-PFHxA	315.0 > 269.8	2.529e3	5.397e3	0.401	0.266	3.21	44.0	117
8	8 13C2-PFDA	515.1 > 469.9	4.888e3	5.397e3	0.748	0.266	4.71	45.6	121
9	9 13C2-PFOA	414.9 > 369.7	5.397e3	5.397e3	1.000	0.266	4.10	37.6	100
10	10 13C4-PFOS	503.0 > 79.9	1.042e4	1.042e4	1.000	0.266	4.49	108	100

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-25.qld

Last Altered: Monday, May 08, 2017 15:20:34 Pacific Daylight Time  
Printed: Tuesday, May 09, 2017 09:06:51 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-09 RW09-20170501 0.26564, Description: RW09-20170501, Name: 170508G1\_25, Date: 08-May-2017, Time: 15:02:50, Instrument: , Lab: , User:

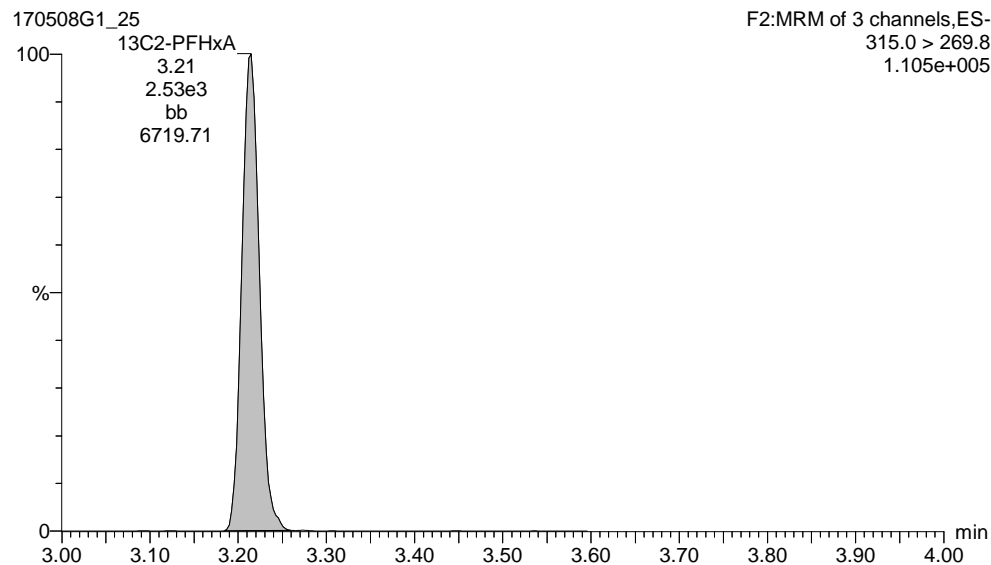


Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-25.qld

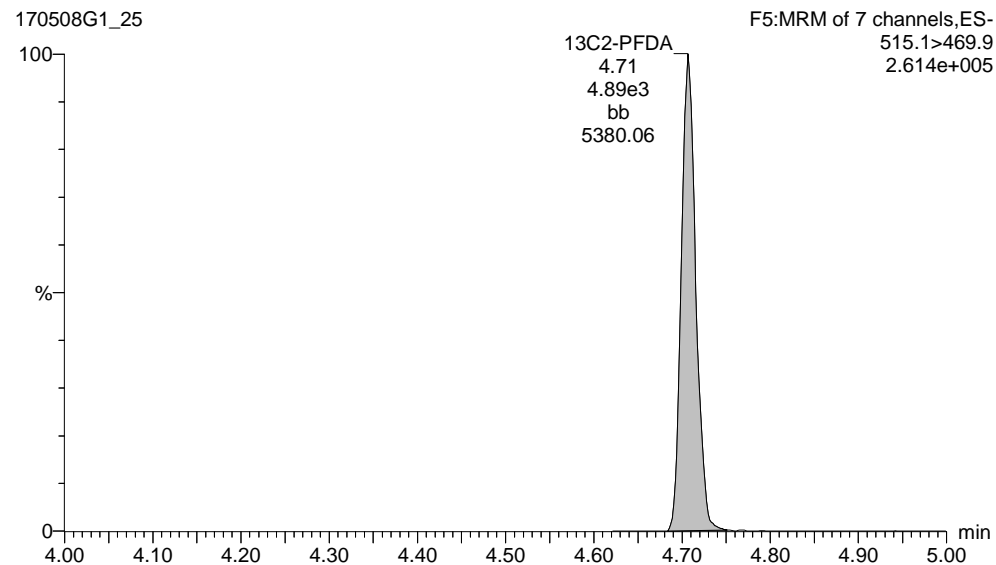
Last Altered: Monday, May 08, 2017 15:20:34 Pacific Daylight Time  
Printed: Tuesday, May 09, 2017 09:06:51 Pacific Daylight Time

ID: 1700550-09 RW09-20170501 0.26564, Description: RW09-20170501, Name: 170508G1\_25, Date: 08-May-2017, Time: 15:02:50, Instrument: , Lab: , User:

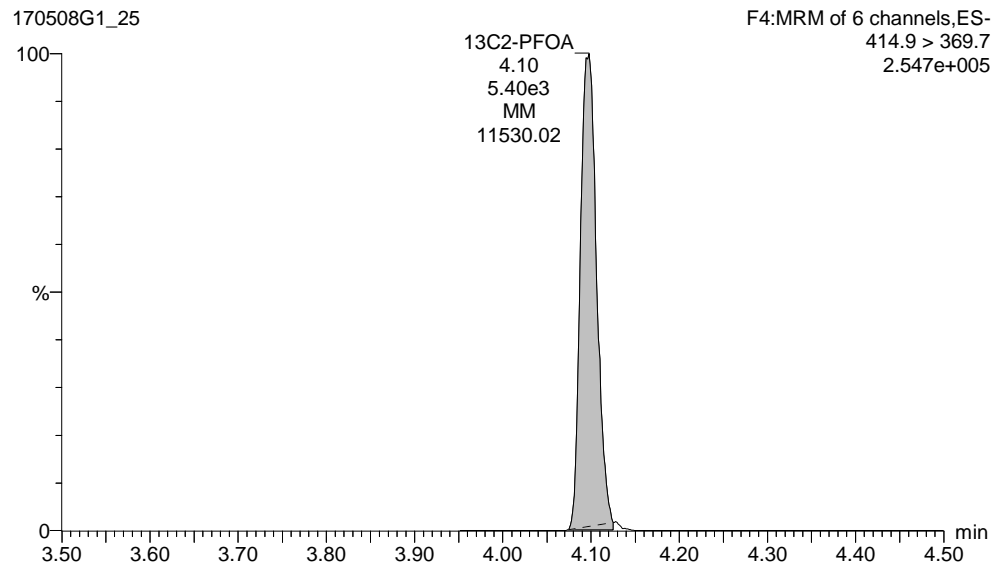
**13C2-PFHxA**



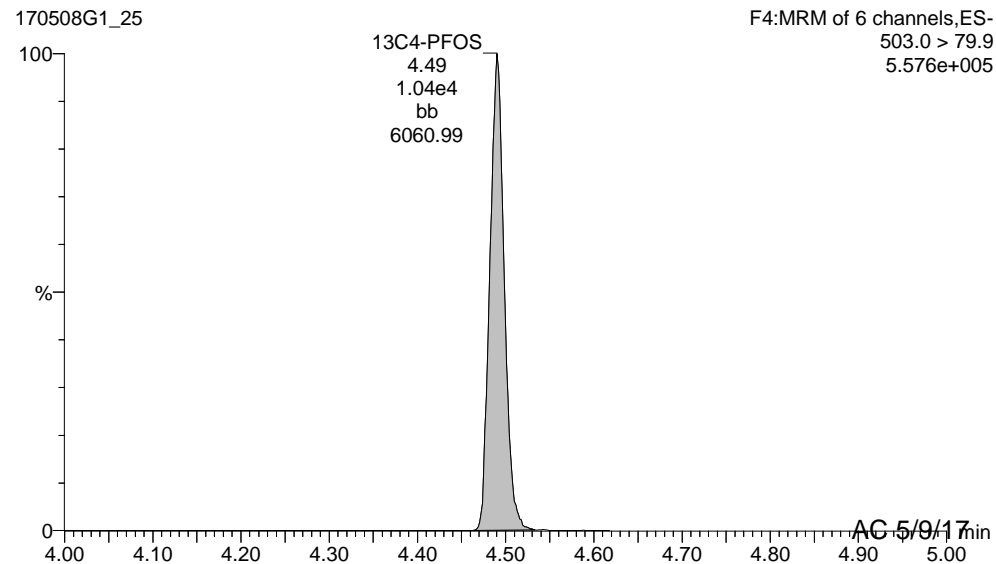
**13C2-PFDA**



**13C2-PFOA**



**13C4-PFOS**



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-26.qld

Last Altered: Monday, May 08, 2017 15:39:03 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:39:51 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-10 FBB09-20170501 0.26575, Description: FBB09-20170501, Name: 170508G1\_26, Date: 08-May-2017, Time: 15:15:19

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		8.968e3		0.266			
2	2 PFHpA	363 > 318.9		5.206e3		0.266			
3	3 PFHxS	398.9 > 79.6		8.968e3		0.266			
4	4 PFOA	413 > 368.7	2.312e1	5.206e3		0.266	4.11	0.203	
5	5 PFOS	499 > 79.9		8.968e3		0.266			
6	6 PFNA	463 > 418.8		5.206e3		0.266			
7	7 13C2-PFHxA	315.0 > 269.8	2.449e3	5.206e3	0.401	0.266	3.22	44.1	117
8	8 13C2-PFDA	515.1 > 469.9	4.625e3	5.206e3	0.748	0.266	4.71	44.7	119
9	9 13C2-PFOA	414.9 > 369.7	5.206e3	5.206e3	1.000	0.266	4.10	37.6	100
10	10 13C4-PFOS	503.0 > 79.9	8.968e3	8.968e3	1.000	0.266	4.49	108	100

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-26.qld

Last Altered: Monday, May 08, 2017 15:39:03 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:39:51 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

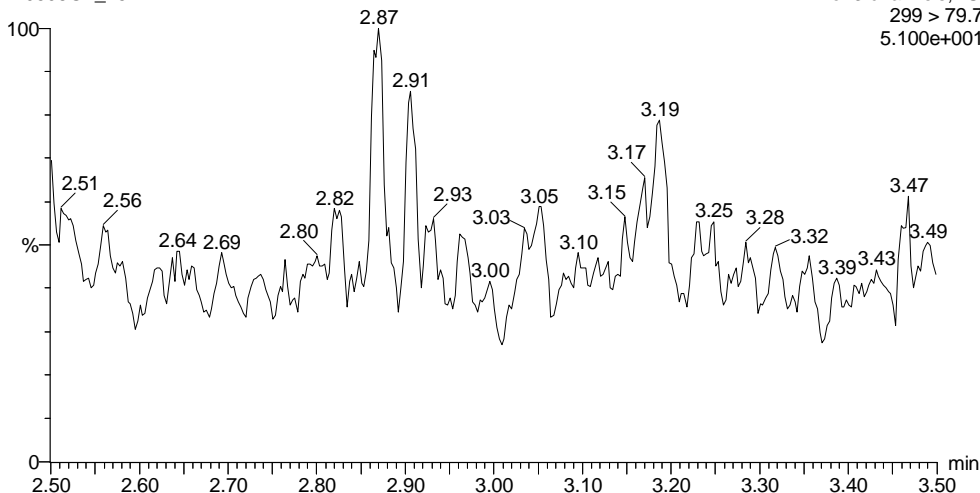
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-10 FBB09-20170501 0.26575, Description: FBB09-20170501, Name: 170508G1\_26, Date: 08-May-2017, Time: 15:15:19, Instrument: , Lab: , User:

**PFBS**

170508G1\_26

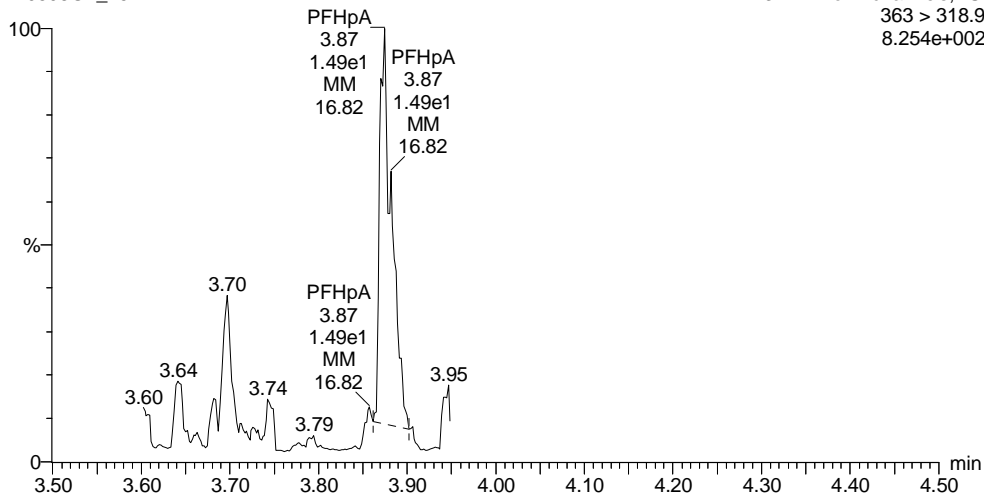
F2:MRM of 3 channels,ES-  
299 > 79.7  
5.100e+001



**PFHpA**

170508G1\_26

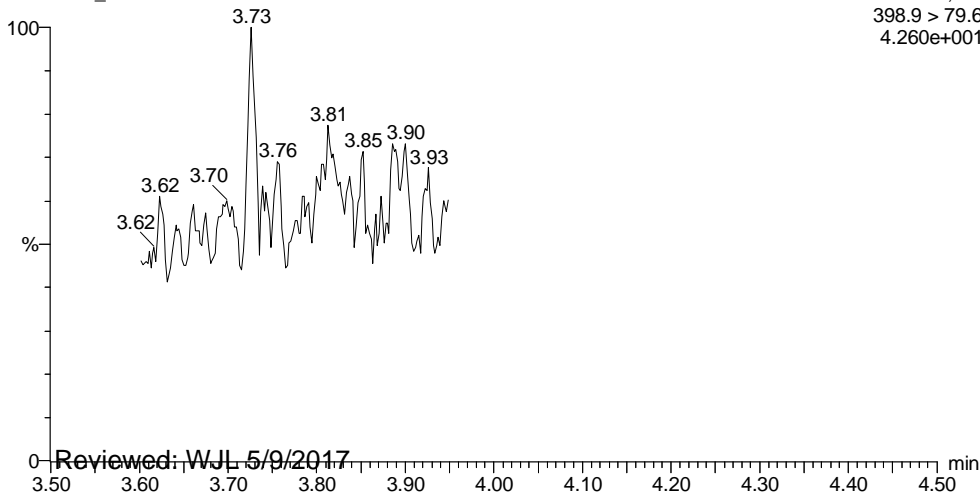
F3:MRM of 2 channels,ES-  
363 > 318.9  
8.254e+002



**PFHxS**

170508G1\_26

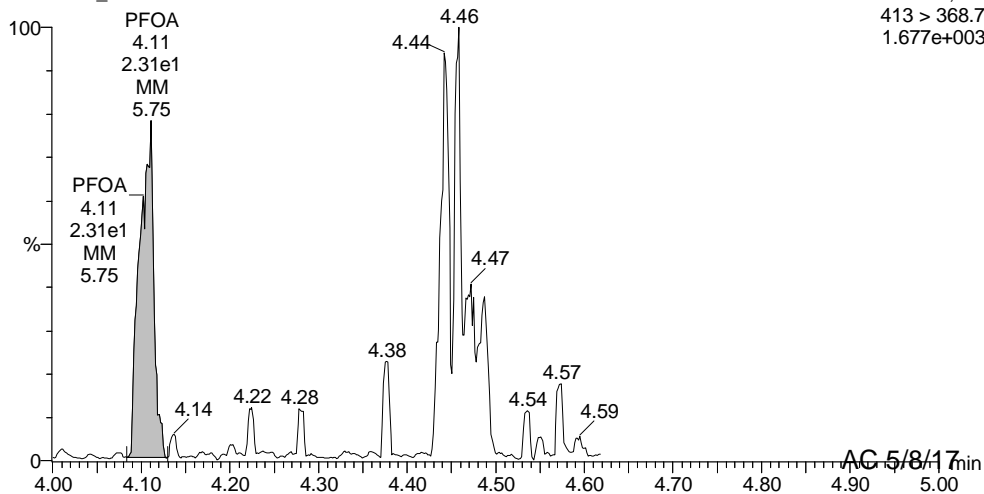
F3:MRM of 2 channels,ES-  
398.9 > 79.6  
4.260e+001



**PFOA**

170508G1\_26

F4:MRM of 6 channels,ES-  
413 > 368.7  
1.677e+003



Reviewed: WJL 5/9/2017

AC 5/8/17 min



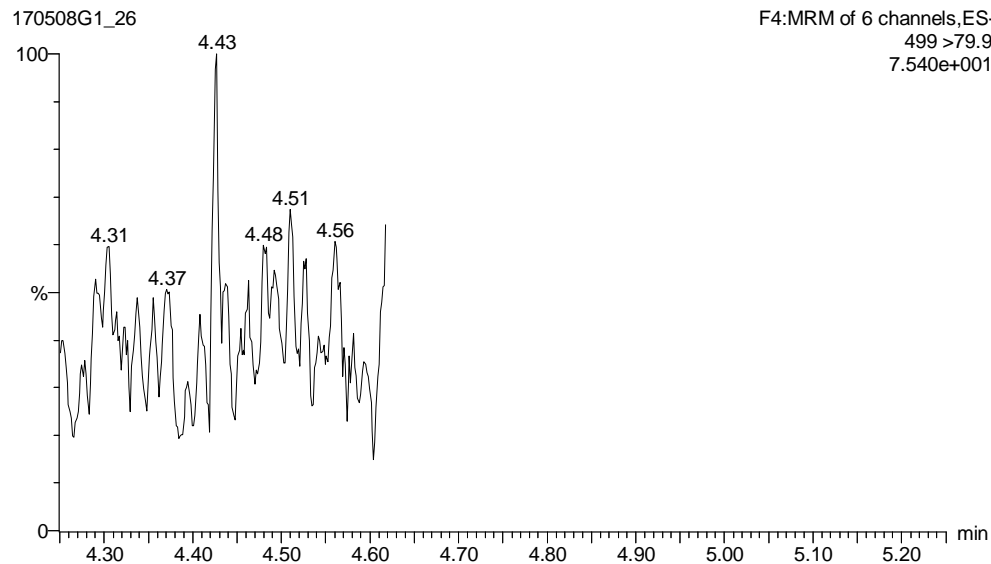
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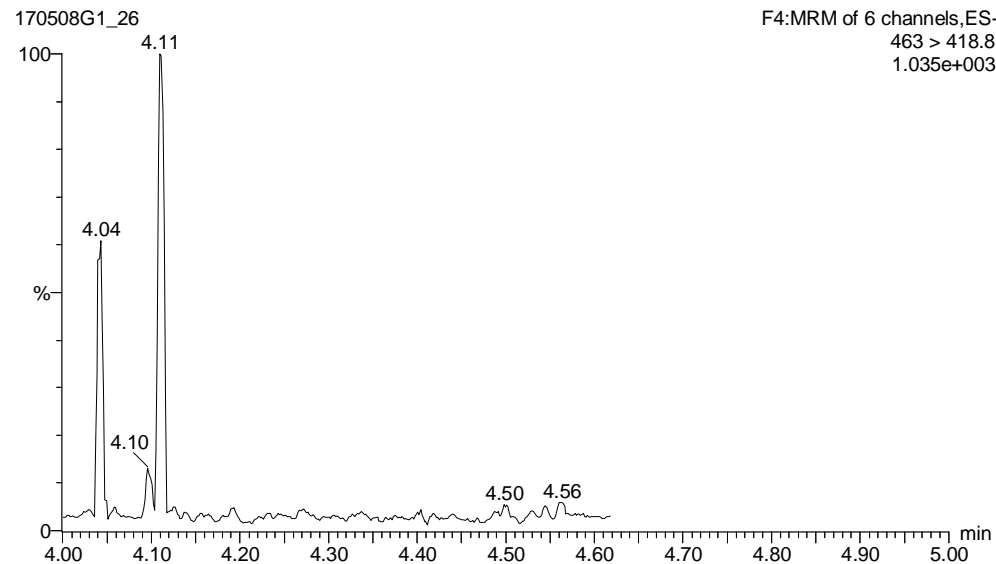
Printed: Monday, May 08, 2017 15:39:51 Pacific Daylight Time

ID: 1700550-10 FBB09-20170501 0.26575, Description: FBB09-20170501, Name: 170508G1\_26, Date: 08-May-2017, Time: 15:15:19, Instrument: , Lab: , User:

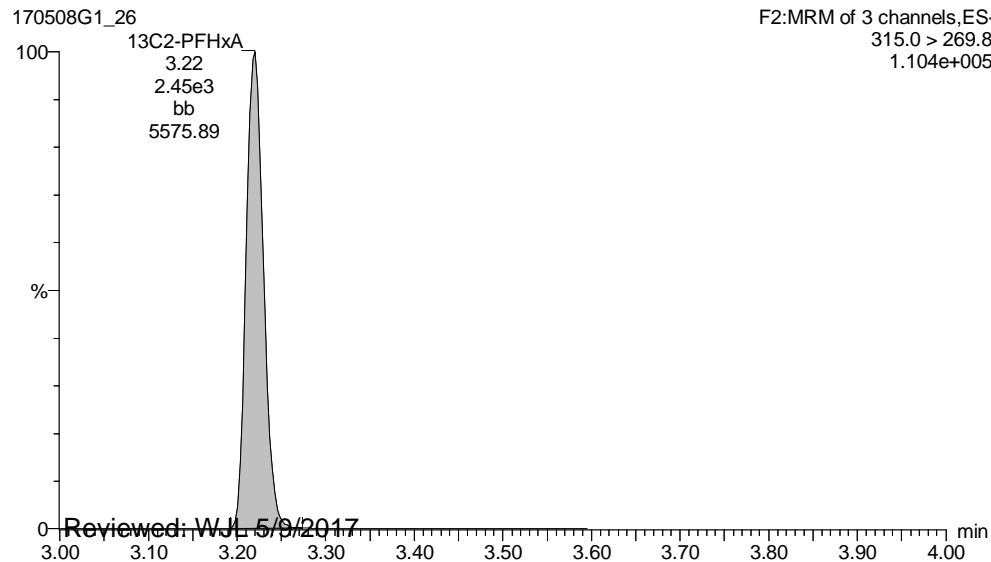
**PFOS**



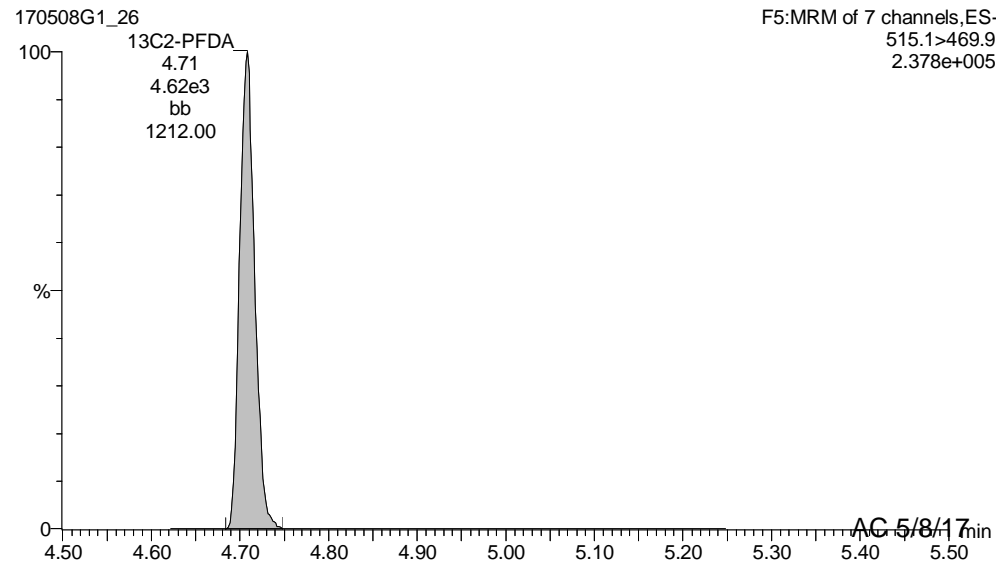
**PFNA**



**13C2-PFHxA**



**13C2-PFDA**



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-26.qld

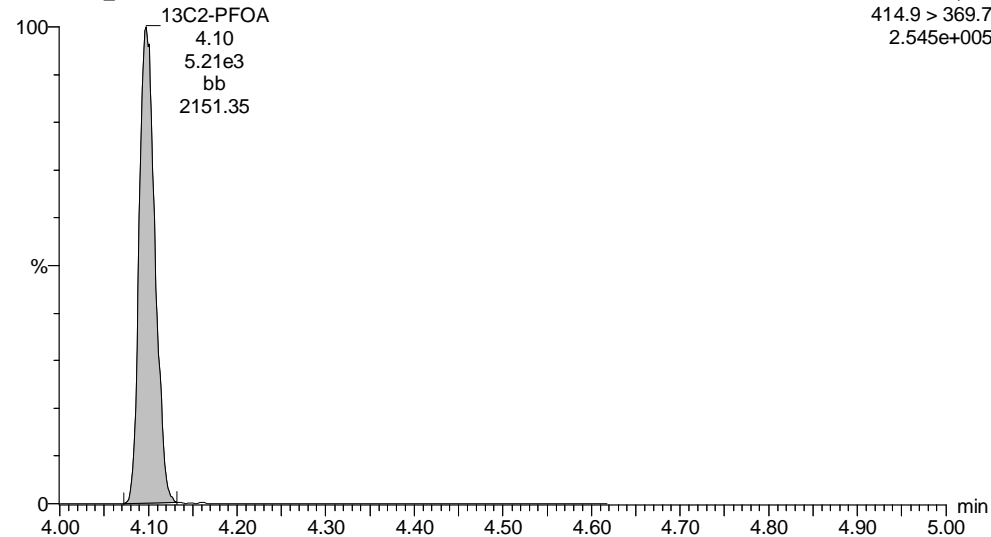
Last Altered: Monday, May 08, 2017 15:39:03 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:39:51 Pacific Daylight Time

ID: 1700550-10 FBB09-20170501 0.26575, Description: FBB09-20170501, Name: 170508G1\_26, Date: 08-May-2017, Time: 15:15:19, Instrument: , Lab: , User:

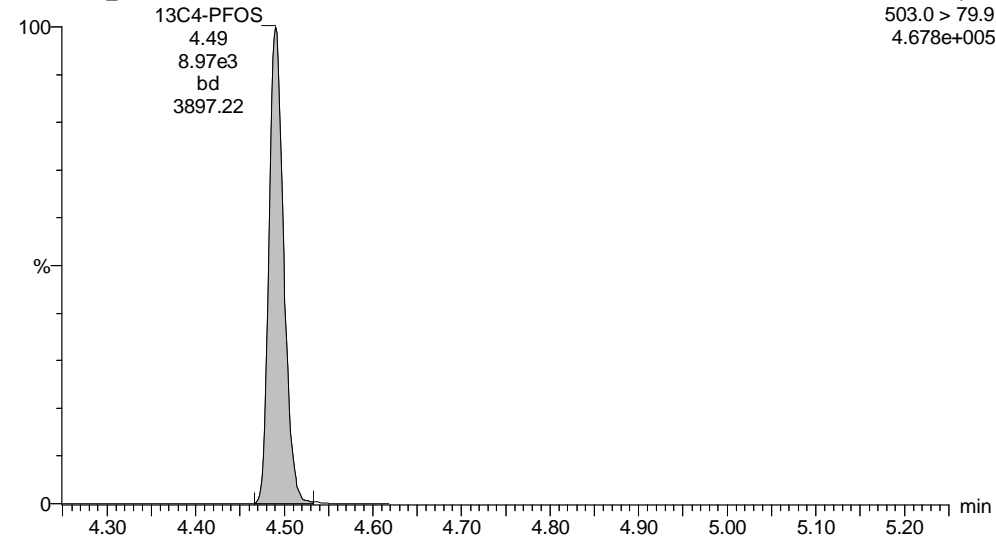
**13C2-PFOA**

170508G1\_26



**13C4-PFOS**

170508G1\_26



## **CONTINUING CALIBRATION**

Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1.qld

Last Altered: Wednesday, May 10, 2017 9:23:24 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:24:52 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Name: 170510G1\_2, Date: 10-May-2017, Time: 08:46:55, ID: ST170510G1-1 PFC CS-2 17E0420, Description: PFC CS2 17E0420

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	3.81e2	9.72e3		1.000	2.91	1.08	121.8
2	2 PFHpA	363 > 318.9	9.26e2	9.34e3		1.000	3.78	0.913	91.3
3	3 PFHxS	398.9 > 79.6	3.68e2	9.72e3		1.000	3.90	0.886	97.4
4	4 PFOA	413 > 368.7	5.42e2	9.34e3		1.000	4.18	0.707	70.7
5	5 PFOS	499 > 79.9	9.26e1	9.72e3		1.000	4.58	0.766	82.4
6	6 PFNA	463 > 418.8	1.12e3	9.34e3		1.000	4.52	0.754	75.4
7	7 13C2-PFHxA	315.0 > 269.8	3.68e3	9.34e3	0.401	1.000	3.28	9.82	98.2
8	8 13C2-PFDA	515.1 > 469.9	5.36e3	9.34e3	0.748	1.000	4.81	7.66	76.6
9	9 13C2-PFOA	414.9 > 369.7	9.34e3	9.34e3	1.000	1.000	4.18	10.0	100.0
10	10 13C4-PFOS	503.0 > 79.9	9.72e3	9.72e3	1.000	1.000	4.58	28.7	100.0

70-130  
↓  
70-136  
↓

DM  
5/10/17  
wpc  
5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 10:24:02 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 10:25:32 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170510G1_1	IPA	10-May-17	08:34:31
2	170510G1_2	ST170510G1-1 PFC CS-2 17E0420	10-May-17	08:46:55
3	170510G1_3	IPA	10-May-17	08:59:17
4	170510G1_4	B7D0150-MS1 LFSM 0.26389	10-May-17	09:11:44
5	170510G1_5	B7D0150-MSD1 LFSMD 0.25542	10-May-17	09:24:07
6	170510G1_6	IPA	10-May-17	09:36:31
7	170510G1_7	ST170510G1-2 PFC CS3 17E0802	10-May-17	09:48:56
8	170510G1_8	IPA	10-May-17	10:01:20

# LC Calibration Standards Review Checklist

Q1

Calibration ID:	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
ST17051061 -1 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">LMH</span>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<del>NA</del> <input type="checkbox"/>
↓ -2 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">LMH</span>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
508 510 _____ <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">LMH</span>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____ <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">LMH</span>	<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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_____ <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">LMH</span>	<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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_____ <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">LMH</span>	<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: [Signature] 5/10/17  
Initials/Date

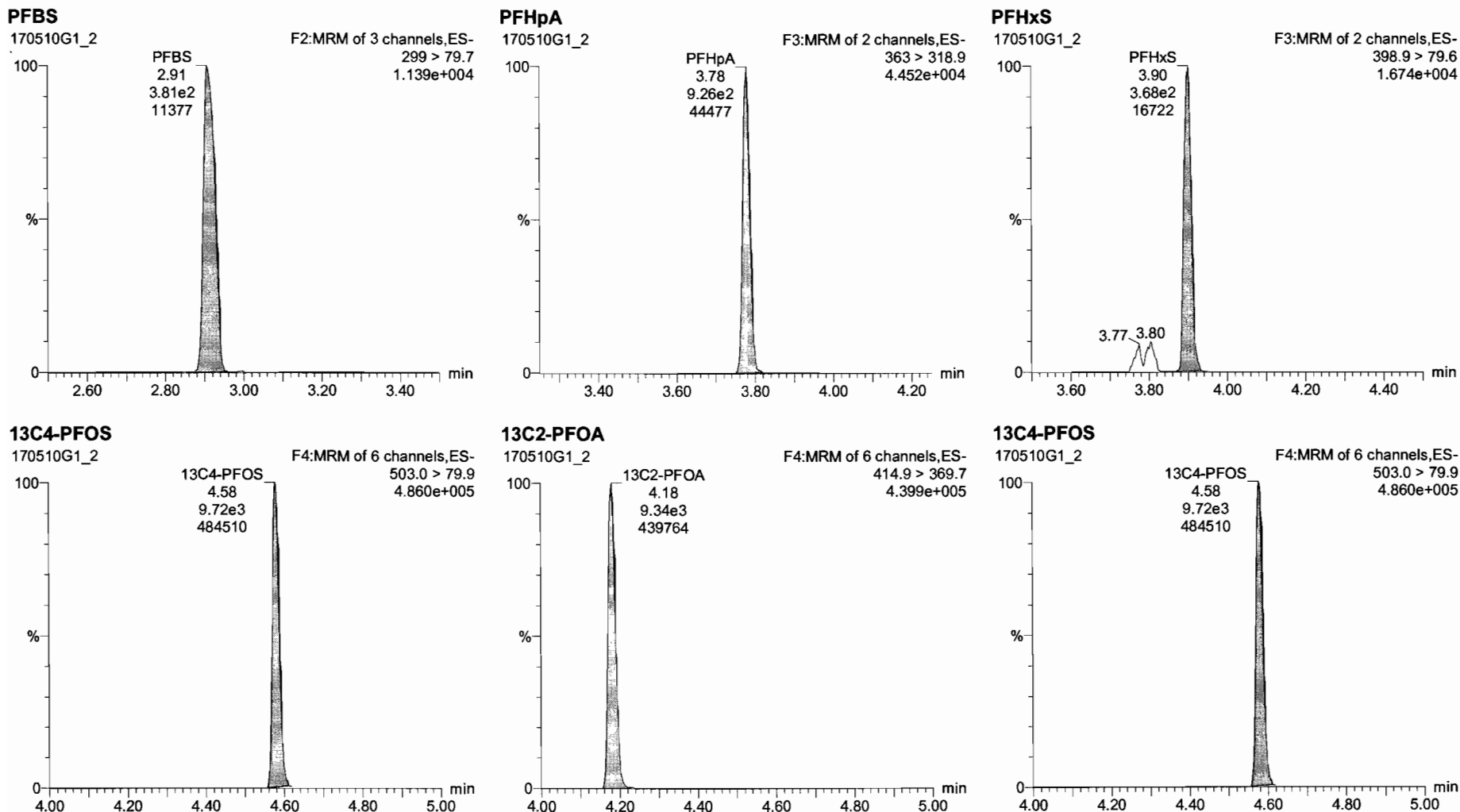
**Comments:**  
DW - L6

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:25:16 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:25:37 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Name: 170510G1\_2, Date: 10-May-2017, Time: 08:46:55, ID: ST170510G1-1 PFC CS-2 17E0420, Description: PFC CS2 17E0420

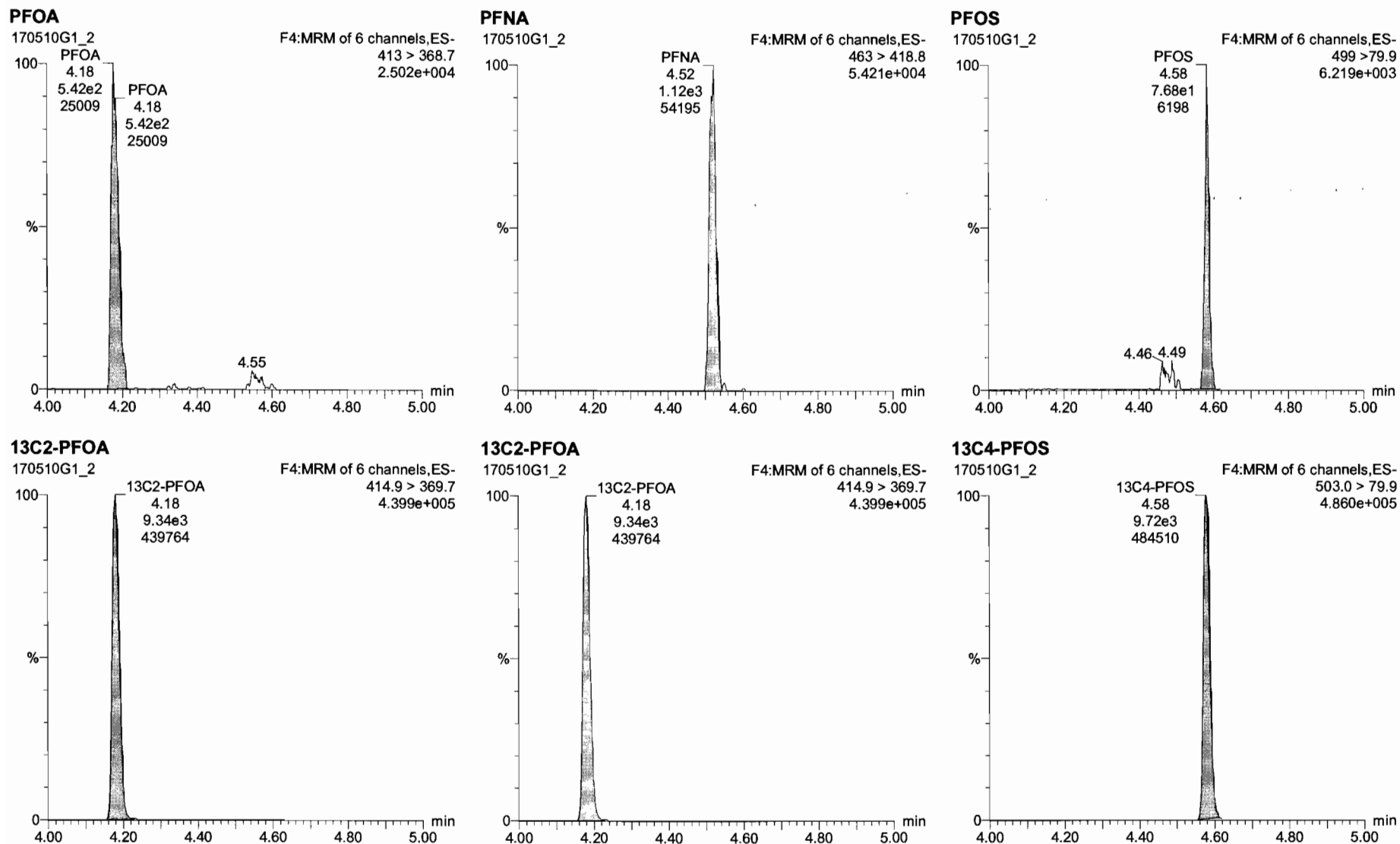


Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:25:16 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:25:37 AM Pacific Daylight Time

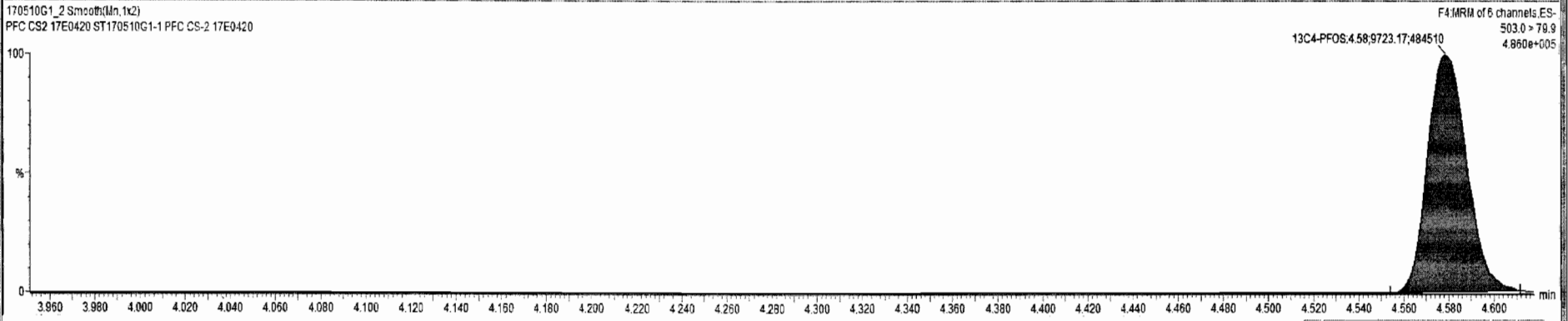
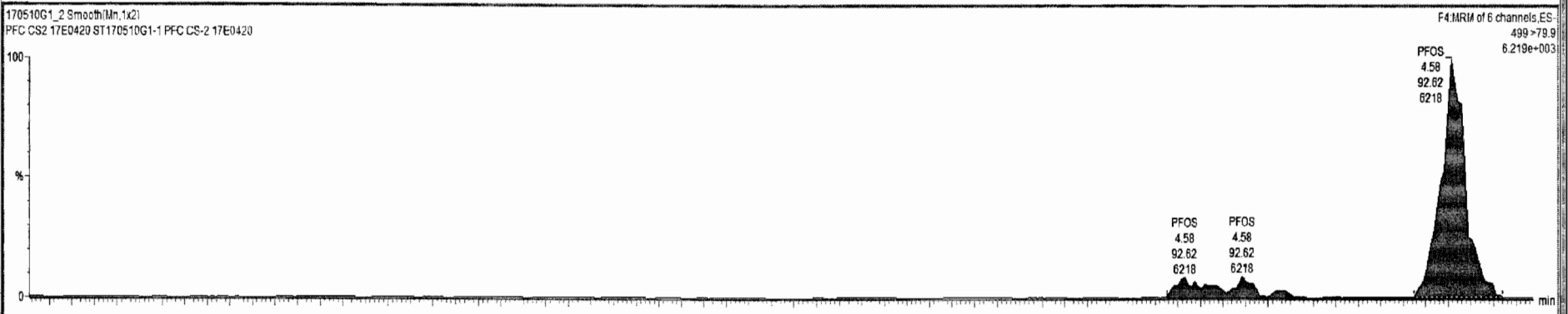
Name: 170510G1\_2, Date: 10-May-2017, Time: 08:46:55, ID: ST170510G1-1 PFC CS-2 17E0420, Description: PFC CS2 17E0420





170510G1\_2 - ST170510G1-1 PFC CS-2 17E0420 - PFC CS2 17E0420

Name	Trace	Area	RRF	WtVol	Pred. RT	RT	Conc.	>MDL	%Rec	DL	
1	PFBS	290 > 79.7	3.81e2	1.000	2.91	2.91	1.08	NO	121.8	0.0035671	
2	PFHpA	365 > 318.9	9.25e2	1.000	3.90	3.78	0.913	NO	91.3	0.0037658	
3	PFnDS	398.9 > 79.6	3.68e2	1.000	3.92	3.90	0.886	NO	97.4	0.0005356	
4	PFOA	413 > 368.7	5.42e2	1.000	4.18	4.18	0.707	NO	70.7	0.0227683	
5	PFDS	499 > 79.9	8.25e1	1.000	4.61	4.58	0.786	NO	82.4	0.0594461	
6	PFNA	463 > 418.6	1.12e3	1.000	4.55	4.52	0.754	NO	75.4	0.0293910	
7	13C2-PFHxA	515.0 > 269.8	3.66e3	0.401	1.000	3.28	3.28	9.32	NO	98.2	0.0028248
8	13C2-PFOA	518.1 > 469.9	5.35e3	0.748	1.000	4.85	4.81	7.68	NO	76.6	0.0161753
9	13C2-PFOA	614.9 > 369.7	9.34e3	1.00	1.000	4.22	4.18	10.0	NO	100.0	0.1193486
10	13C4-PFOS	503.0 > 79.9	8.72e3	1.00	1.000	4.61	4.58	28.7	NO	100.0	0.0015137



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:25:16 AM Pacific Daylight Time

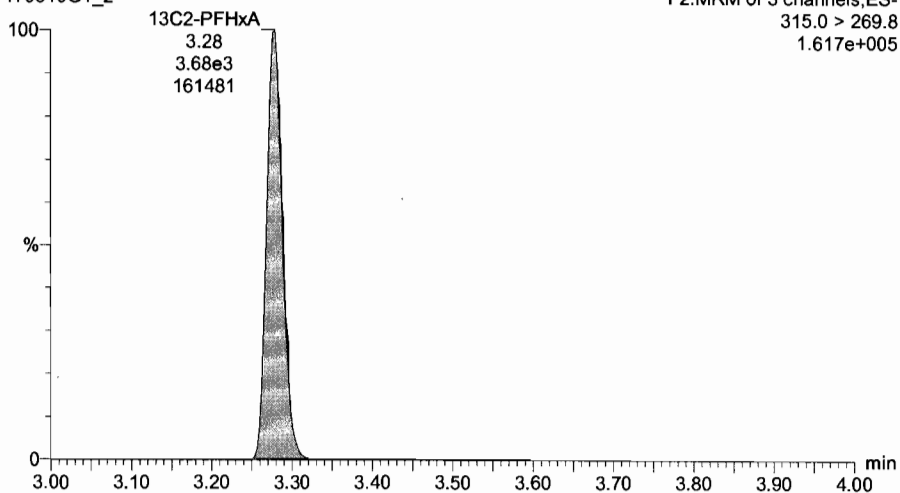
Printed: Wednesday, May 10, 2017 9:25:37 AM Pacific Daylight Time

Name: 170510G1\_2, Date: 10-May-2017, Time: 08:46:55, ID: ST170510G1-1 PFC CS-2 17E0420, Description: PFC CS2 17E0420

**13C2-PFHxA**

170510G1\_2

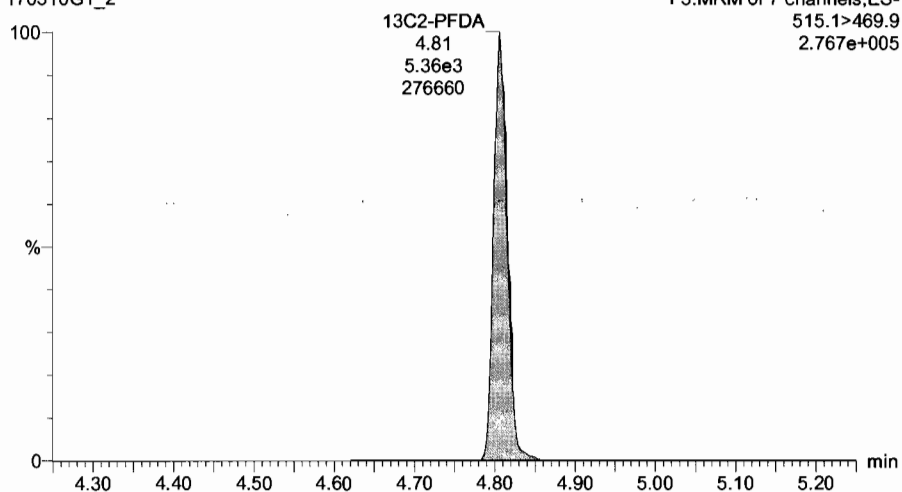
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315.0 > 269.8  
1.617e+005



**13C2-PFDA**

170510G1\_2

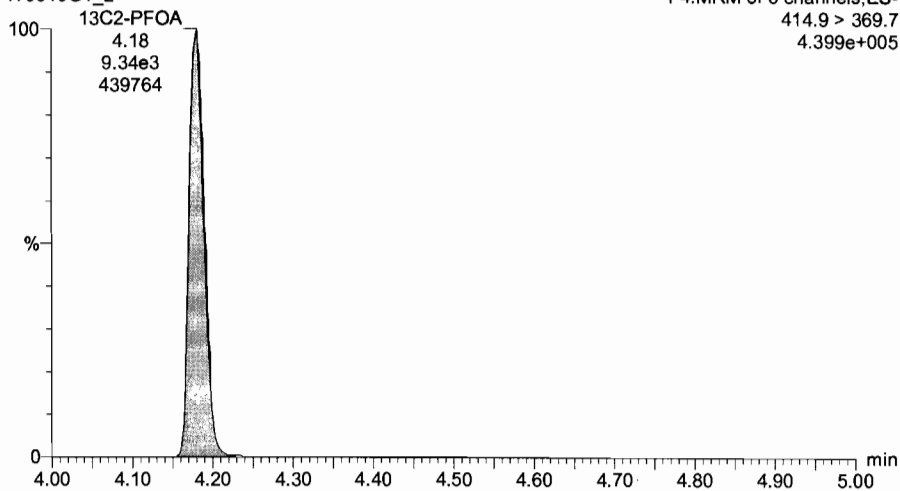
F5:MRM of 7 channels,ES-  
515.1>469.9  
2.767e+005



**13C2-PFOA**

170510G1\_2

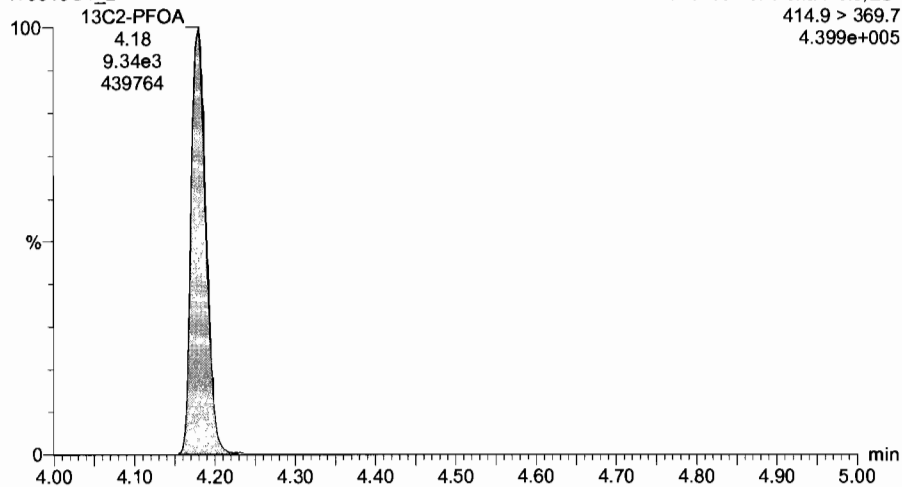
F4:MRM of 6 channels,ES-  
414.9 > 369.7  
4.399e+005



**13C2-PFOA**

170510G1\_2

F4:MRM of 6 channels,ES-  
414.9 > 369.7  
4.399e+005



Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1-7.qld

Last Altered: Wednesday, May 10, 2017 10:15:17 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:16:35 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Name: 170510G1\_7, Date: 10-May-2017, Time: 09:48:56, ID: ST170510G1-2 PFC CS3 17E0802, Description: PFC CS3 17E0802

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	7.08e3	9.58e3		1.000	2.91	23.0	129.7
2	2 PFHpA	363 > 318.9	1.59e4	8.94e3		1.000	3.78	17.8	88.9
3	3 PFHxS	398.9 > 79.6	8.14e3	9.58e3		1.000	3.89	22.0	120.7
4	4 PFOA	413 > 368.7	1.05e4	8.94e3		1.000	4.18	15.2	76.0
5	5 PFOS	499 > 79.9	2.06e3	9.58e3		1.000	4.58	18.3	98.7
6	6 PFNA	463 > 418.8	2.22e4	8.94e3		1.000	4.52	16.8	84.1
7	7 13C2-PFHxA	315.0 > 269.8	4.07e3	8.94e3	0.401	1.000	3.28	11.4	113.5
8	8 13C2-PFDA	515.1 > 469.9	6.23e3	8.94e3	0.748	1.000	4.81	9.31	93.1
9	9 13C2-PFOA	414.9 > 369.7	8.94e3	8.94e3	1.000	1.000	4.18	10.0	100.0
10	10 13C4-PFOS	503.0 > 79.9	9.58e3	9.58e3	1.000	1.000	4.58	28.7	100.0

70-130  
↓

DM  
5/10/17  
[Signature]

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 10:24:02 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 10:25:32 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Compound name: PFBS

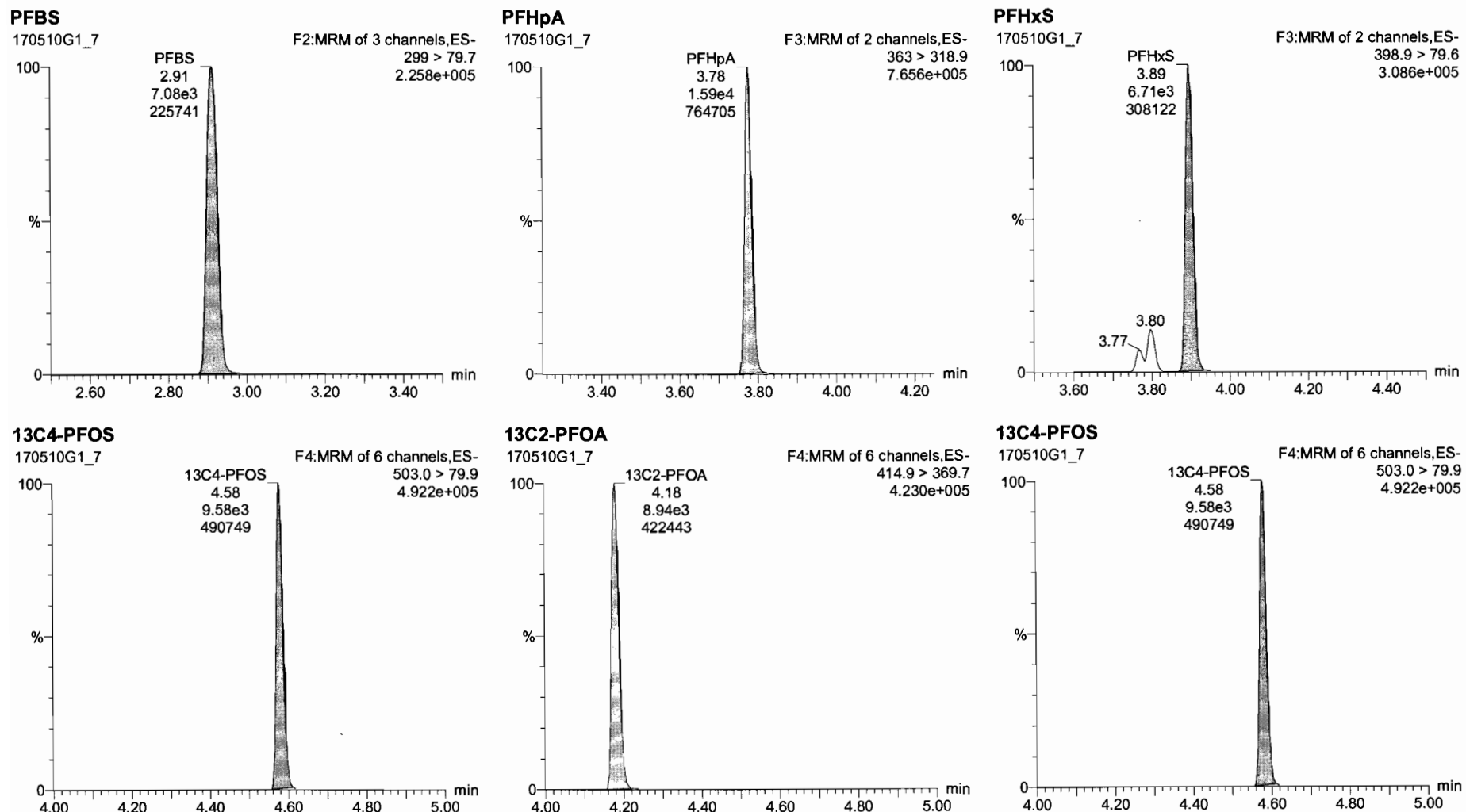
	Name	ID	Acq.Date	Acq.Time
1	170510G1_1	IPA	10-May-17	08:34:31
2	170510G1_2	ST170510G1-1 PFC CS-2 17E0420	10-May-17	08:46:55
3	170510G1_3	IPA	10-May-17	08:59:17
4	170510G1_4	B7D0150-MS1 LFSM 0.26389	10-May-17	09:11:44
5	170510G1_5	B7D0150-MSD1 LFSMD 0.25542	10-May-17	09:24:07
6	170510G1_6	IPA	10-May-17	09:36:31
7	170510G1_7	ST170510G1-2 PFC CS3 17E0802	10-May-17	09:48:56
8	170510G1_8	IPA	10-May-17	10:01:20

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 10:16:41 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 10:18:43 AM Pacific Daylight Time

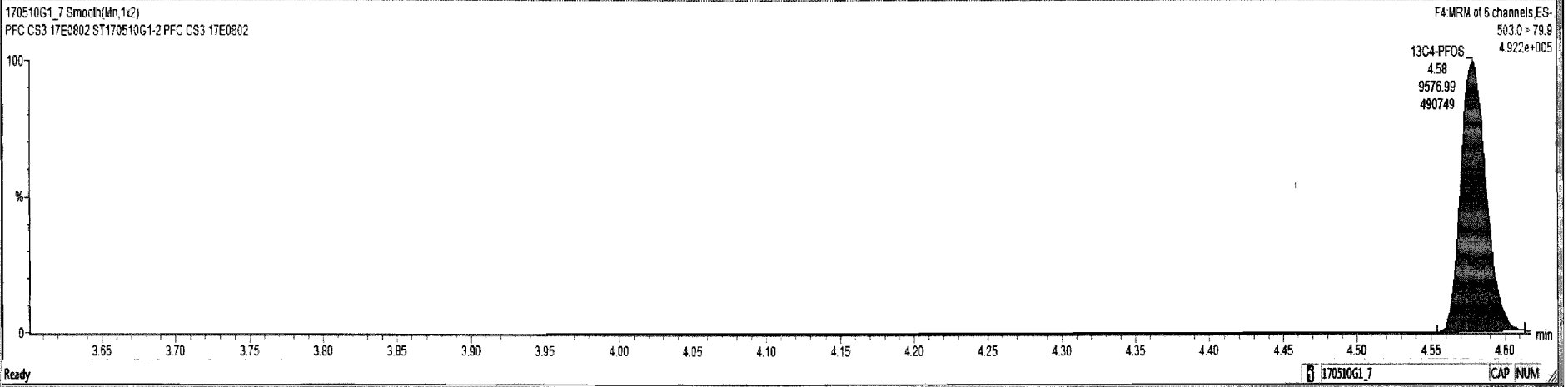
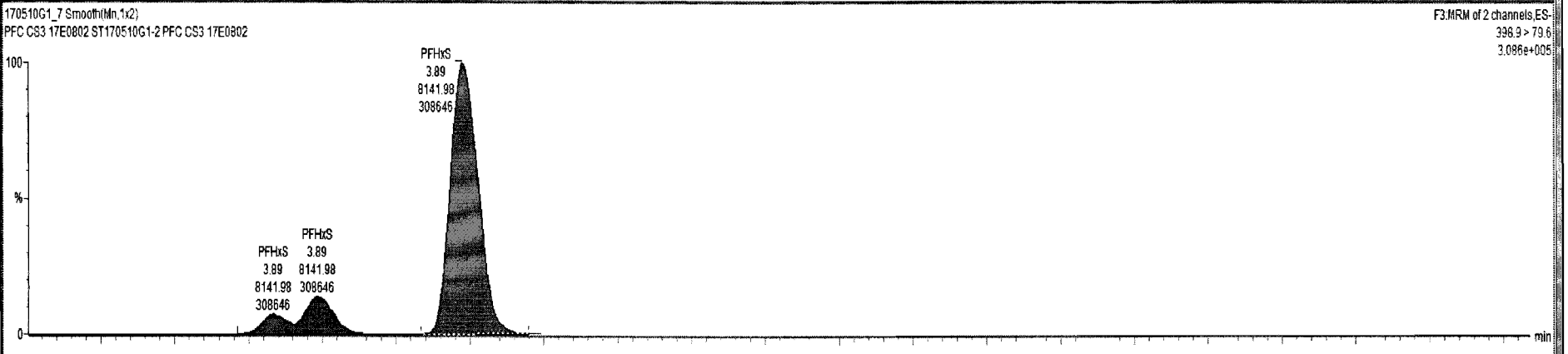
Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Name: 170510G1\_7, Date: 10-May-2017, Time: 09:48:56, ID: ST170510G1-2 PFC CS3 17E0802, Description: PFC CS3 17E0802



170510G1\_7 - ST170510G1-2.PFC CS3 17E0802 - PFC CS3 17E0802

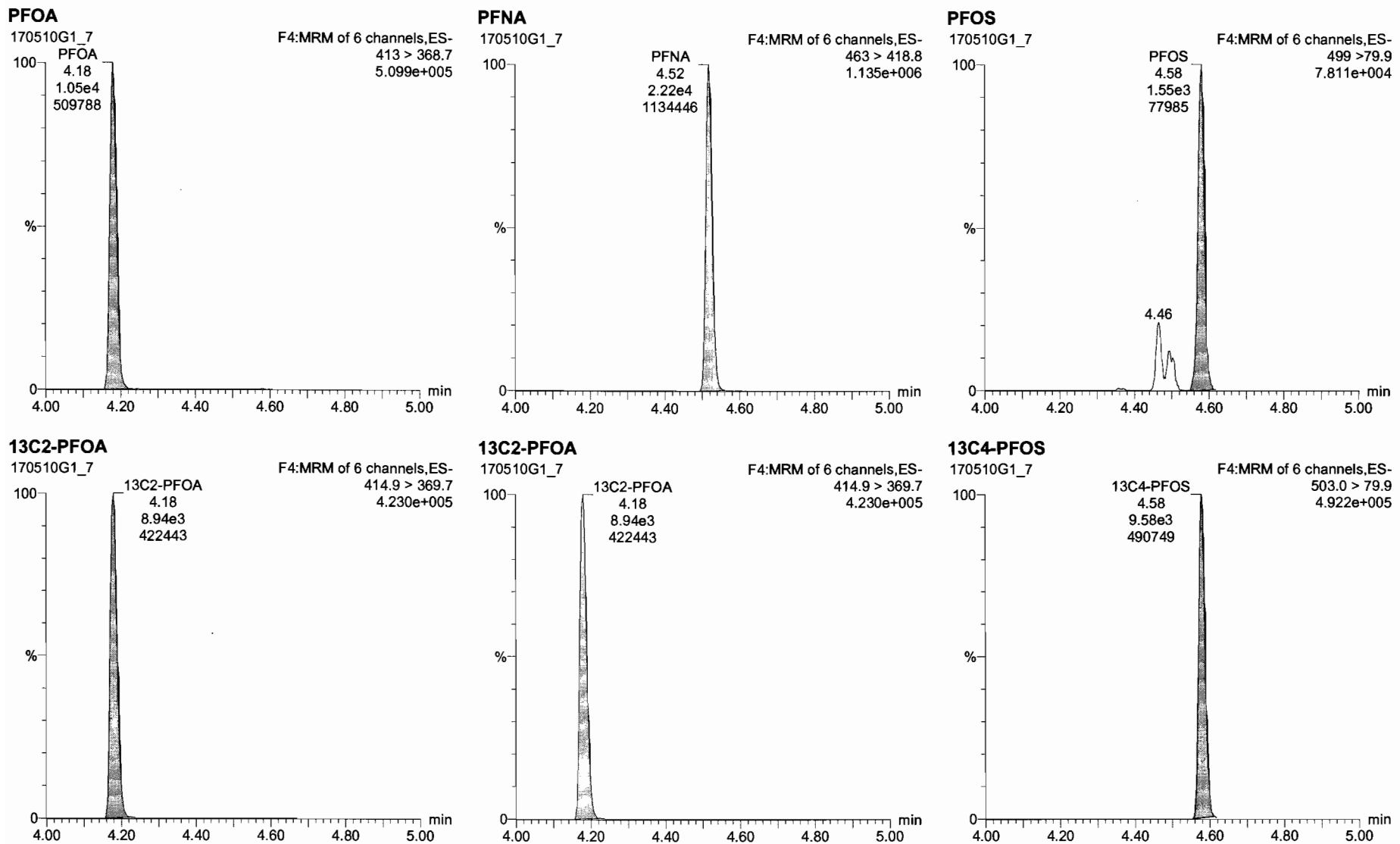
Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1* Chr.Noise	ID	Sample Text	Factor1	SW1	Cal File	>HDL
1 PFBS	22.964933	0.00361	129.7		7.081e3		2.91	1	10			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
2 PFHpA	17.787599	0.0107	88.9		1.588e4		3.78	2	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
3 PFHxS	21.989909	0.00487	120.7		8.142e3		3.89	3	10			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
4 PFOA	15.195632	0.00891	76.0		1.054e4		4.18	4	9			1.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
5 PFOS	18.349550	0.0233	98.7		2.059e3		4.58	5	10			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
6 PFNA	16.828874	0.00148	84.1		2.217e4		4.52	6	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
7 13C2-PFHxA	11.351053	0.00573	113.5		4.073e3	0.401	3.28	7	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO
8 13C2-PFDA	9.3101790	0.00855	93.1		6.233e3	0.748	4.81	8	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO
9 13C2-PFOA	10.000000	0.00548	100.0		8.944e3	1.000	4.16	9	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO
10 13C4-PFOS	28.700000	0.00152	100.0		9.577e3	1.000	4.58	10	10			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO



Dataset: Untitled

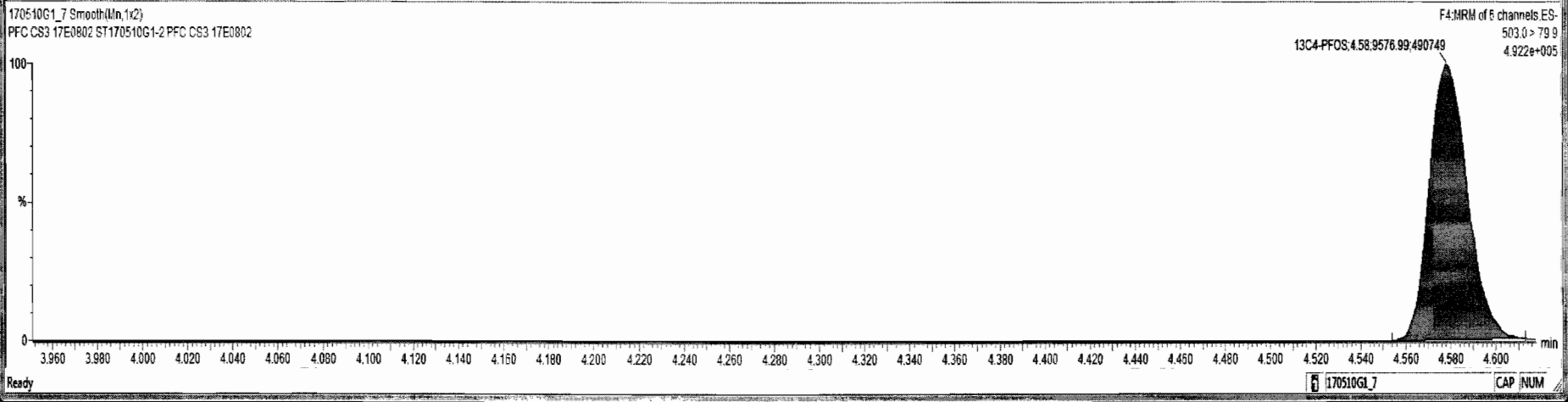
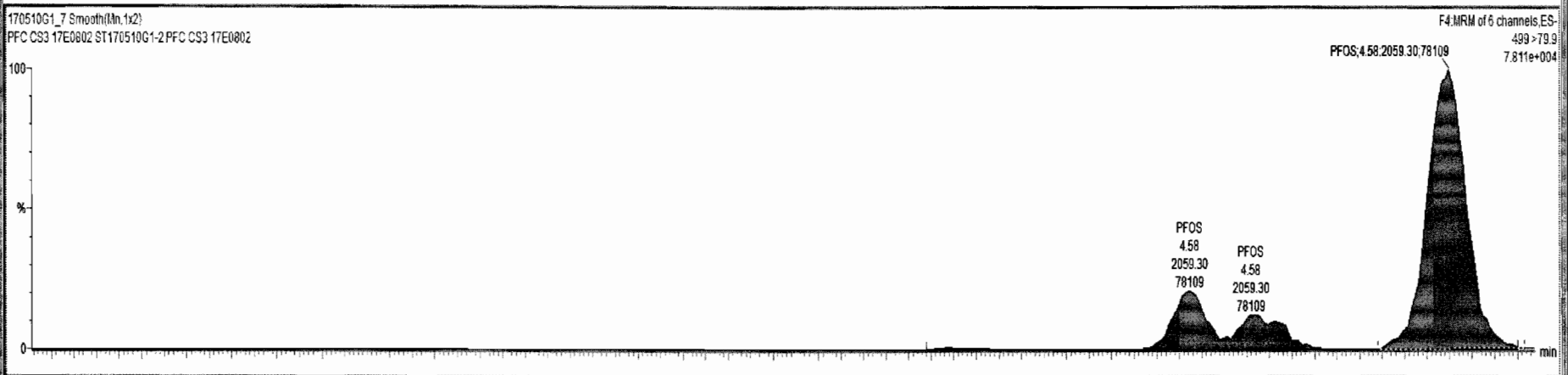
Last Altered: Wednesday, May 10, 2017 10:16:41 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 10:18:43 AM Pacific Daylight Time

Name: 170510G1\_7, Date: 10-May-2017, Time: 09:48:56, ID: ST170510G1-2 PFC CS3 17E0802, Description: PFC CS3 17E0802



170510G1\_7 - ST170510G1-2 PFC CS3 17E0802 - PFC CS3 17E0802

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq Date	Acq Time	1 <sup>st</sup> Chr.Noise	D	Sample Text	Factor1	SWI	Cal File	>IDL
1 PFBS	22.964933	0.00361	129.7		7.081e3	2.91	1	10				0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
2 PFHpA	17.787599	0.0107	88.9		1.588e4	3.78	2	9				0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
3 PFHxS	21.969909	0.00167	120.7		8.142e3	3.89	3	10				0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
4 PFDA	15.195632	0.00891	76.0		1.054e4	4.18	4	9				1.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
5 PFOS	18.349550	0.0233	98.7		2.059e3	4.38	5	10				0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
6 PFNA	16.828874	0.00148	84.1		2.217e4	4.52	6	9				0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	YES
7 13C2-PFHxA	11.351053	0.00573	113.5		4.073e3	0.401	3.28	7	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO
8 13C2-PFDA	9.3101790	0.00855	93.1		6.233e3	0.748	4.81	8	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO
9 13C2-PFDA	10.000000	0.00548	100.0		8.944e3	1.000	4.18	9	9			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO
10 13C4-PFOS	28.700000	0.00152	100.0		9.577e3	1.000	4.58	10	10			0.000	10-May-17	09:48:56		ST170510G...	PFC CS3 17E0802	1.0	1.00	C18_V...	NO





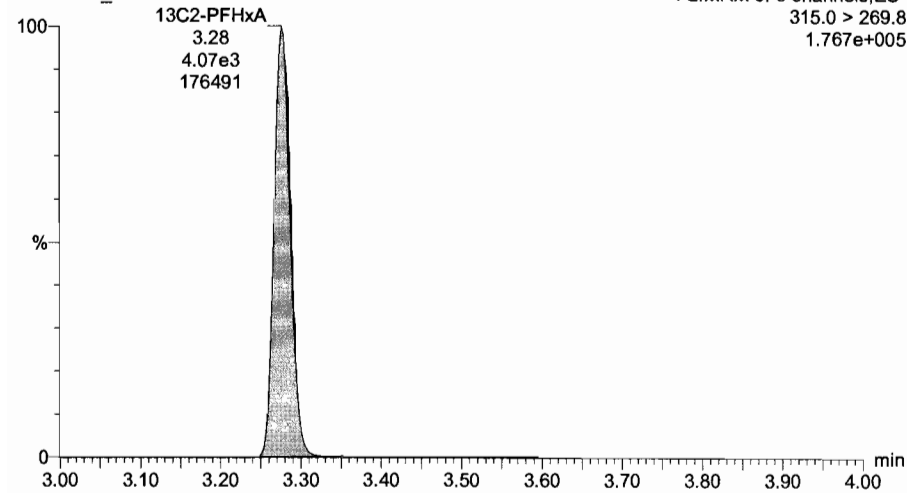
Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 10:16:41 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 10:18:43 AM Pacific Daylight Time

Name: 170510G1\_7, Date: 10-May-2017, Time: 09:48:56, ID: ST170510G1-2 PFC CS3 17E0802, Description: PFC CS3 17E0802

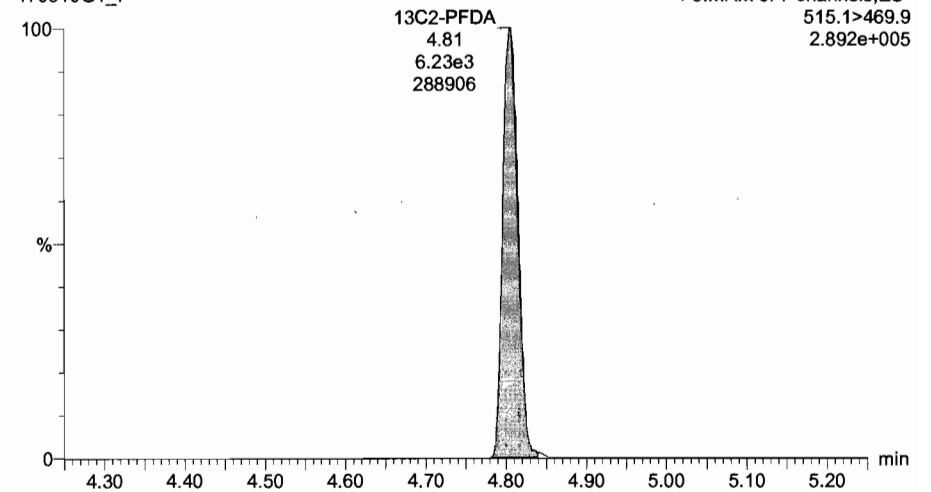
**13C2-PFHxA**

170510G1\_7



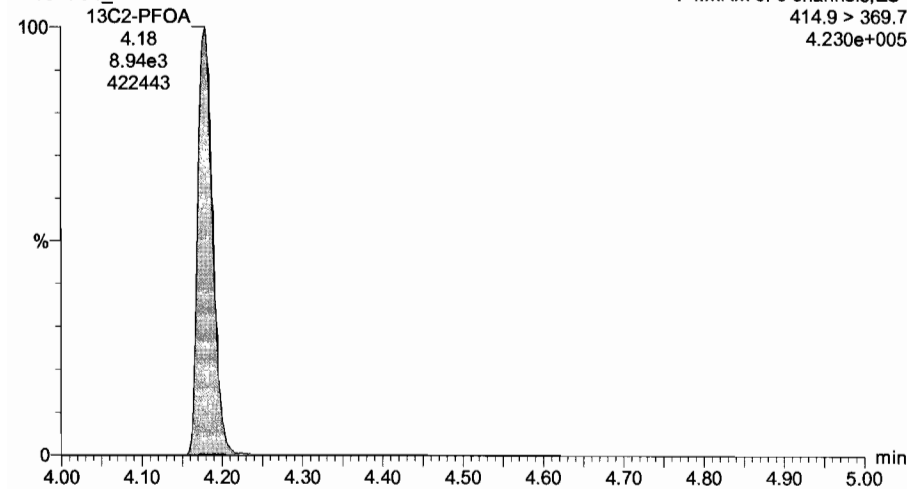
**13C2-PFDA**

170510G1\_7



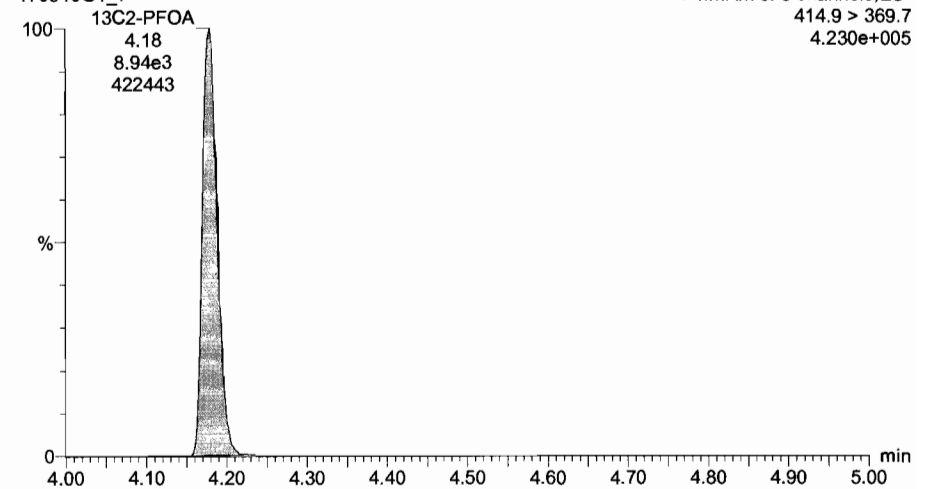
**13C2-PFOA**

170510G1\_7



**13C2-PFOA**

170510G1\_7



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-2.qld

Last Altered: Tuesday, May 09, 2017 12:39:07 PM Pacific Daylight Time

Printed: Tuesday, May 09, 2017 12:41:22 PM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_2, Date: 09-May-2017, Time: 10:09:47, ID: ST170509G1-1 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBS	298.8 > 79.7	1.68e4	6.10e3		1.000	2.85	12.2	121.9
2	2 PFHpA	363 > 318.9	2.04e4	1.09e4		1.000	3.70	12.1	121.0
3	3 PFHxS	398.8 > 79.8	1.35e4	6.40e3		1.000	3.81	10.9	109.5
4	4 PFOA	412.8 > 369.0	1.88e4	2.26e4		1.000	4.09	10.6	106.1
5	5 PFNA	462.8 > 418.8	2.33e4	9.18e3		1.000	4.42	10.3	102.9
6	6 PFOS	498.7 > 79.8	3.31e3	1.28e4		1.000	4.48	8.69	86.9
7	7 13C3-PFBS	302.0 > 98.8	6.10e3	1.31e4	0.453	1.000	2.85	12.8	102.5
8	8 13C4-PFHpA	367.2 > 321.8	1.09e4	1.31e4	0.857	1.000	3.70	12.1	96.6
9	9 18O2-PFHxS	403 > 102.6	6.40e3	1.31e4	0.440	1.000	3.81	13.8	110.8
10	10 13C2-PFOA	414.9 > 369.7	2.26e4	7.07e3	3.366	1.000	4.09	11.9	95.1
11	11 13C5-PFNA	468.2 > 422.9	9.18e3	9.60e3	0.909	1.000	4.42	13.2	105.3
12	12 13C8-PFOS	506.7 > 79.6	1.28e4	8.91e3	1.304	1.000	4.48	13.8	110.4
13	13 13C5-PFHxA	318 > 272.9	2.01e4	2.01e4	1.000	1.000	3.20	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.31e4	1.31e4	1.000	1.000	3.81	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	7.07e3	7.07e3	1.000	1.000	4.09	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	9.60e3	9.60e3	1.000	1.000	4.42	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	8.91e3	8.91e3	1.000	1.000	4.48	12.5	100.0

75-125  
↓  
60-150  
↓  
50-150  
60-150

OK  
5/19/17  
5/19/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work Order 170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

# LC Calibration Standards Review Checklist

Q1

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
<u>ST170509G1-1</u>	<u>LMH</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>                  -2</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>                  -3</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>                  -4</u>	<u>LMH</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>                  -5</u>	<u>LMH</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>                  -6</u>	<u>LMH</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>                          </u>	<u>LMH</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>                          </u>	<u>LMH</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>                          </u>	<u>LMH</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>                          </u>	<u>LMH</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NA

↓

Full Mass Cal. Date: 4/5/17

Run Log Present:

# of Samples per Sequence Checked:

Reviewed By: [Signature] 5/10/17  
Initials/Date

**Comments:**  
 U6 - 2 trans

Dataset: Untitled

Last Altered: Tuesday, May 09, 2017 12:38:22 PM Pacific Daylight Time

Printed: Tuesday, May 09, 2017 12:38:44 PM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

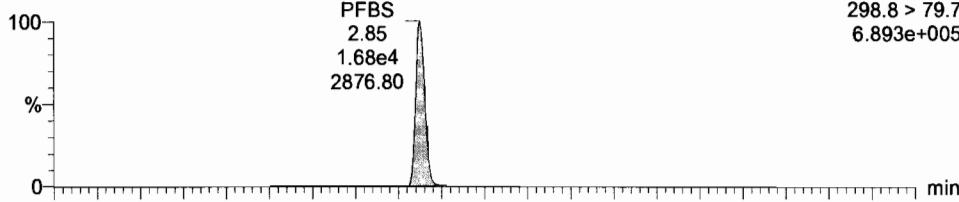
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_2, Date: 09-May-2017, Time: 10:09:47, ID: ST170509G1-1 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFBS**

170509G1\_2

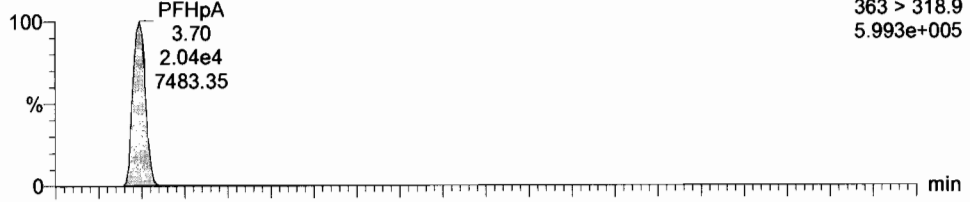
F2:MRM of 3 channels,ES-  
298.8 > 79.7  
6.893e+005



**PFHpA**

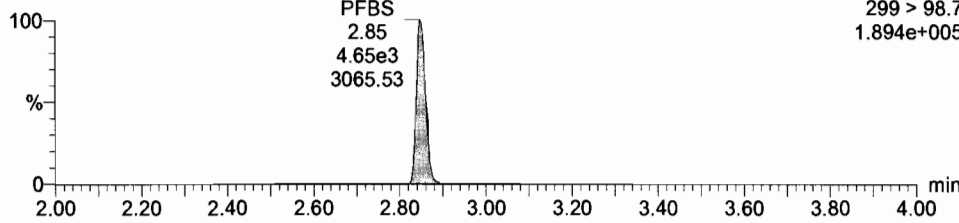
170509G1\_2

F4:MRM of 7 channels,ES-  
363 > 318.9  
5.993e+005



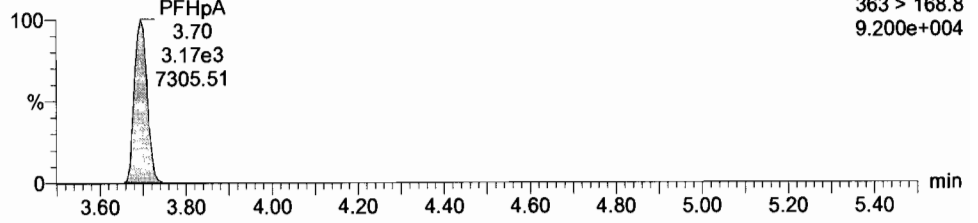
170509G1\_2

F2:MRM of 3 channels,ES-  
299 > 98.7  
1.894e+005



170509G1\_2

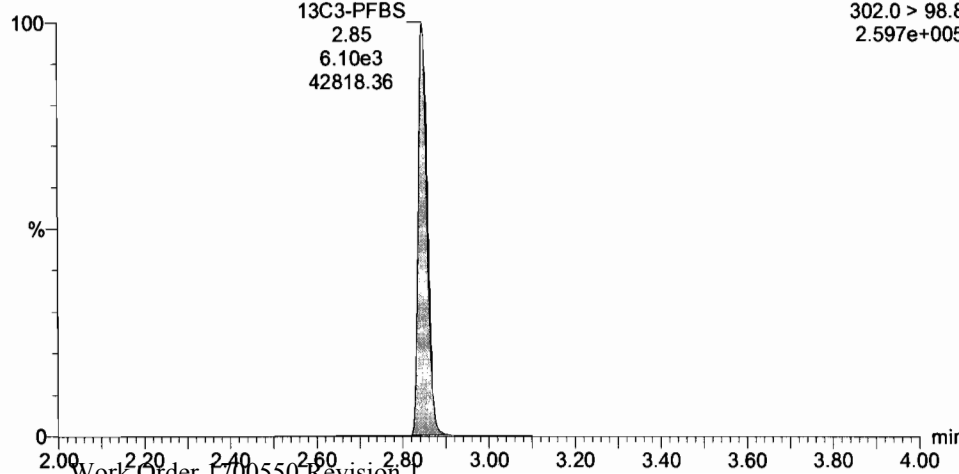
F4:MRM of 7 channels,ES-  
363 > 168.8  
9.200e+004



**13C3-PFBS**

170509G1\_2

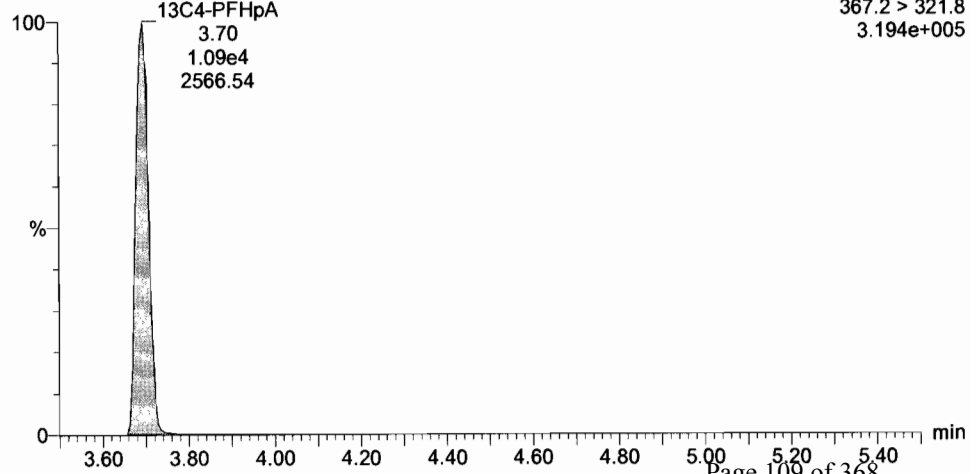
F2:MRM of 3 channels,ES-  
302.0 > 98.8  
2.597e+005



**13C4-PFHpA**

170509G1\_2

F4:MRM of 7 channels,ES-  
367.2 > 321.8  
3.194e+005

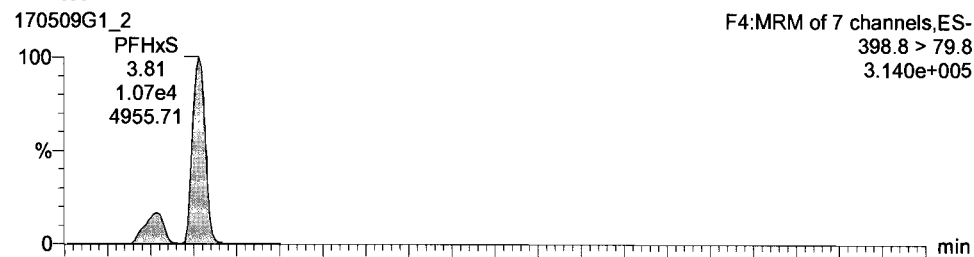


Dataset: Untitled

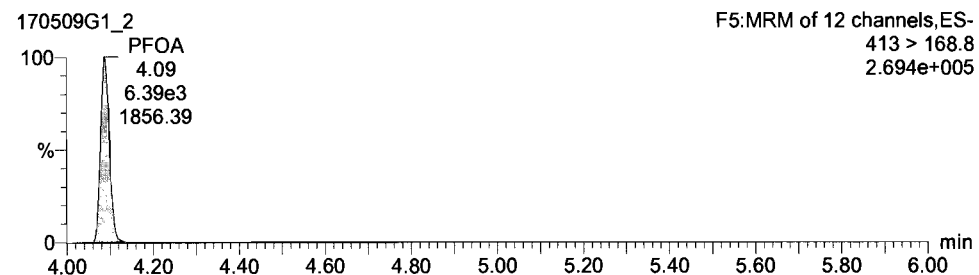
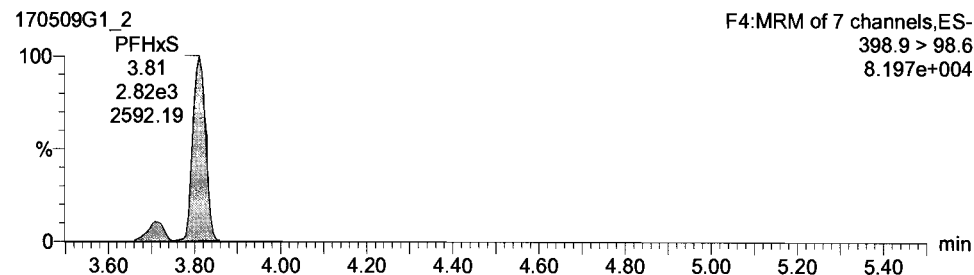
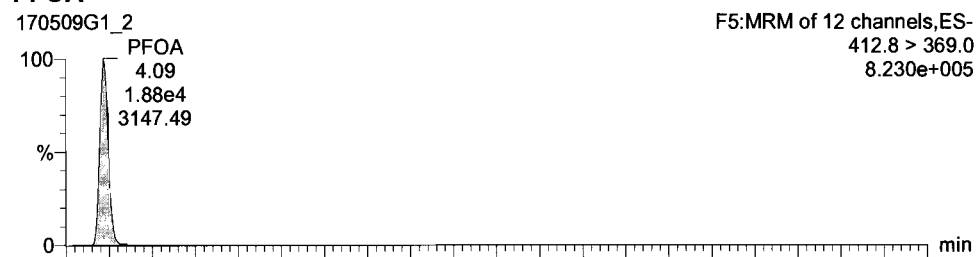
Last Altered: Tuesday, May 09, 2017 12:38:22 PM Pacific Daylight Time  
Printed: Tuesday, May 09, 2017 12:38:44 PM Pacific Daylight Time

Name: 170509G1\_2, Date: 09-May-2017, Time: 10:09:47, ID: ST170509G1-1 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

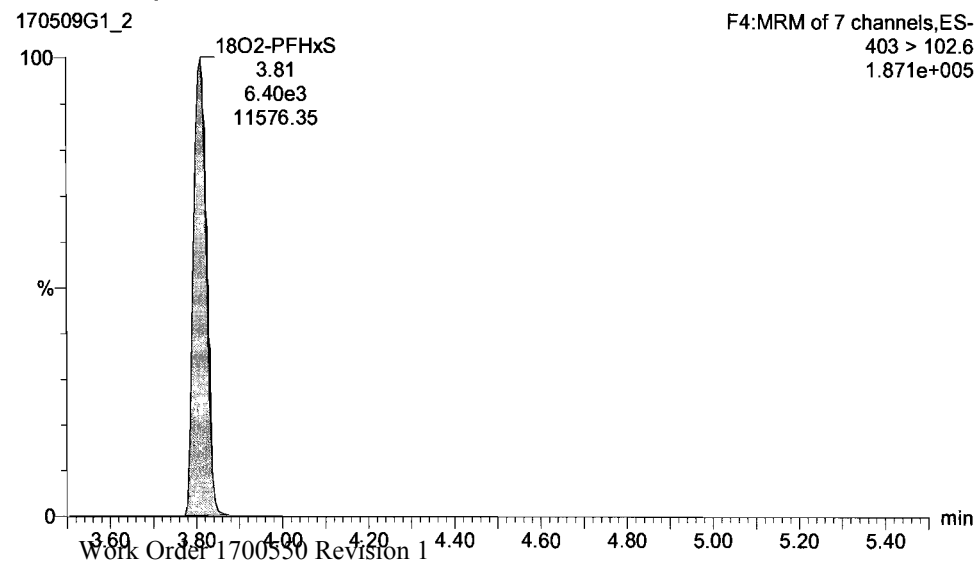
**PFHxS**



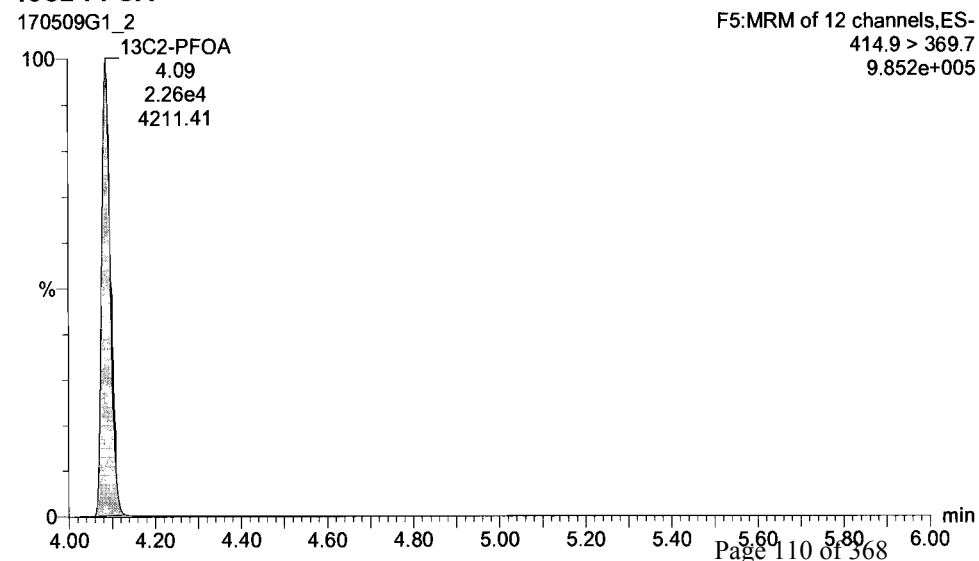
**PFOA**



**18O2-PFHxS**



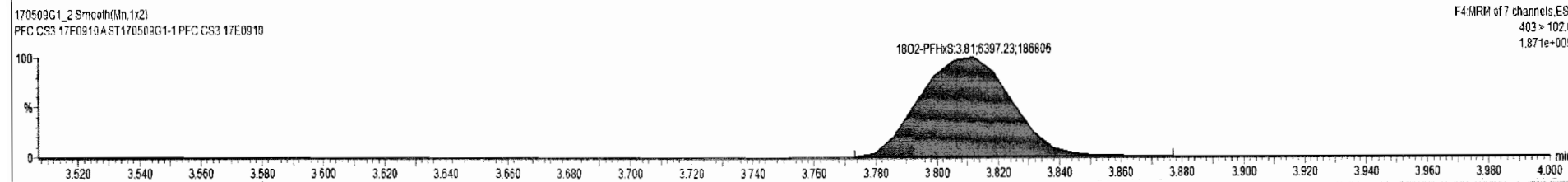
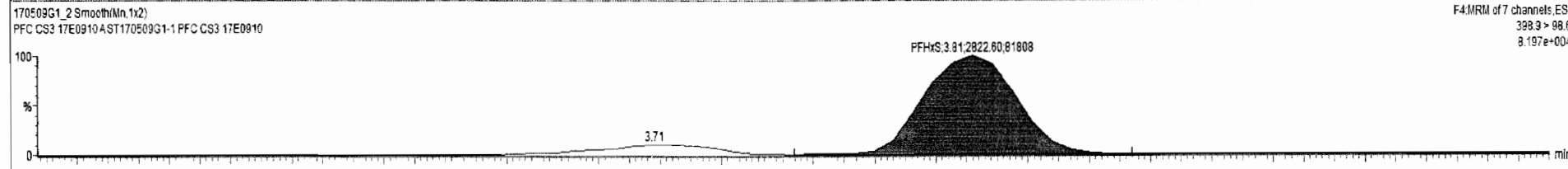
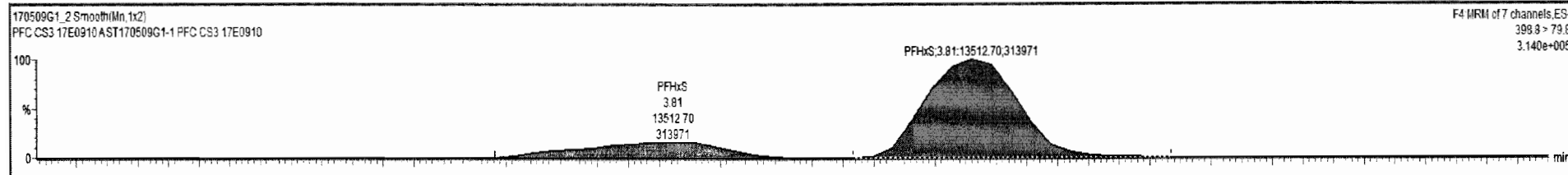
**13C2-PFOA**





170509G1\_2 - ST170509G1-1 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	Response	RRF	Wt/Vol	RT	Conc	%Rec	DL	%RSD	Coeff. Of D...
1	PFBS	298.8 > 79.7	1.68e4	34.395	3.439	1.000	2.85	12.2	121.9	0.0101929	0.9996
2	PFHpA	363 > 318.9	2.04e4	23.424	2.342	1.000	3.70	12.1	121.0	0.0000000	0.9981
3	PFHxS	396.8 > 79.8	1.35e4	26.403	2.640	1.000	3.81	10.9	109.5	0.0000000	0.9980
4	PFOA	412.8 > 369.0	1.88e4	10.375	1.037	1.000	4.09	10.6	106.1	0.0000000	0.9993
5	PFNA	462.8 > 418.8	2.33e4	31.708	3.171	1.000	4.42	10.3	102.9	0.0000000	0.9968
6	PFOS	498.7 > 79.8	3.31e3	3.227	0.323	1.000	4.48	8.69	86.9	0.1188994	0.9995
7	13C3-PFBS	302.0 > 98.8	6.10e3	5.799	0.464	1.000	2.85	12.8	102.5	0.0010912	3.87
8	13C4-PFHpA	367.2 > 321.8	1.09e4	10.344	0.828	1.000	3.70	12.1	96.6	0.0118369	4.31
9	18O2-PFHxS	403 > 102.6	6.40e3	6.086	0.467	1.000	3.81	13.8	110.8	0.0029945	4.28
10	13C2-PFOA	414.9 > 369.7	2.26e4	40.026	3.202	1.000	4.09	11.9	95.1	0.0069132	4.64
11	13C5-PFNA	466.2 > 422.9	9.18e3	11.954	0.956	1.000	4.42	13.2	105.3	0.0020732	7.66
12	13C8-PFOS	506.7 > 79.6	1.28e4	18.000	1.440	1.000	4.48	13.8	110.4	0.0085397	3.13
13	13C5-PFHxA	318 > 272.9	2.01e4	12.500	1.000	1.000	3.20	12.5	100.0	0.0094916	0.000
14	13C3-PFHxS	401.9 > 79.9	1.31e4	12.500	1.000	1.000	3.81	12.5	100.0	0.0034022	0.000
15	13C8-PFOA	421.3 > 376	7.07e3	12.500	1.000	1.000	4.09	12.5	100.0	0.0196904	0.000
16	13C9-PFNA	472.2 > 426.9	9.60e3	12.500	1.000	1.000	4.42	12.5	100.0	0.0145993	0.000
17	13C4-PFOS	503.0 > 79.9	8.91e3	12.500	1.000	1.000	4.48	12.5	100.0	0.0073285	0.000
18	Total PFBS	298.8 > 79.7	1.68e4	34.408		1.000	12.2				0.0000
19	Total PFHxS	396.8 > 79.8	1.62e4	31.597		1.000	13.1				0.0000
20	Total PFOA	412.8 > 369.0	1.88e4	10.375		1.000	10.6				0.0000
21	Total PFOS	498.7 > 79.8	3.74e3	3.648		1.000	9.97			0.1188994	0.0000



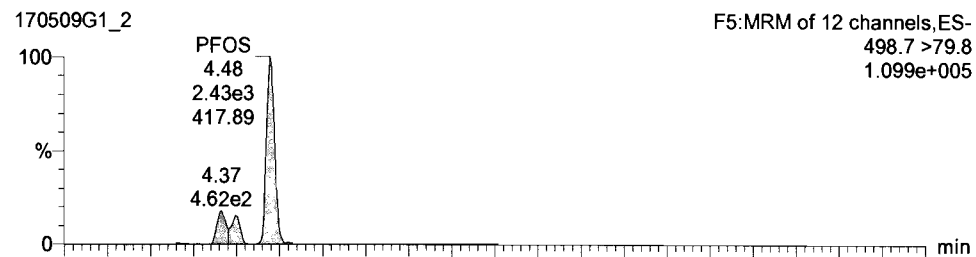
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Last Altered: Tuesday, May 09, 2017 12:38:22 PM Pacific Daylight Time

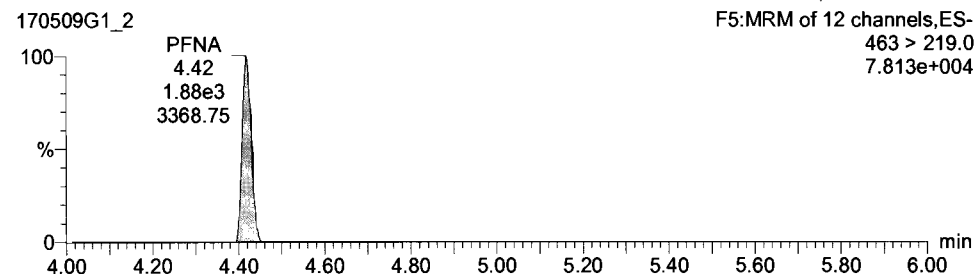
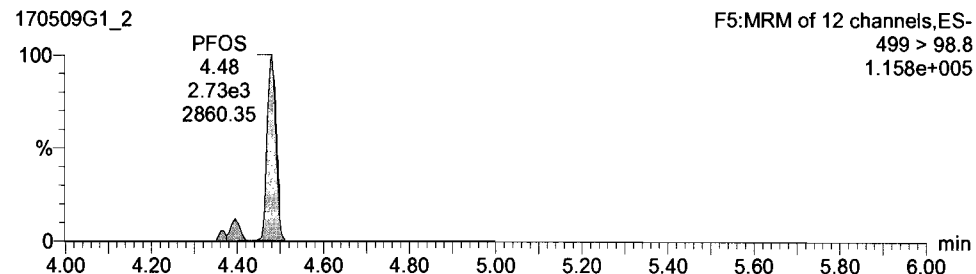
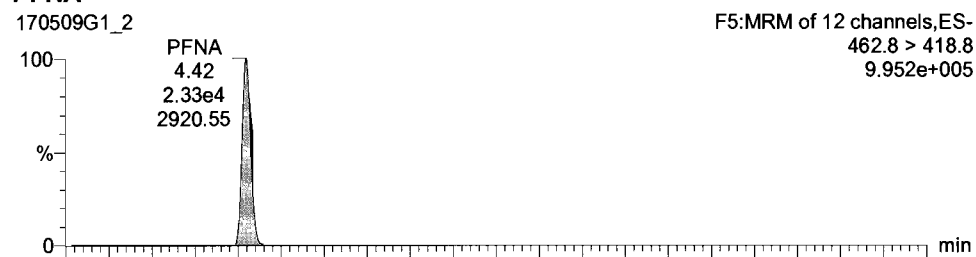
Printed: Tuesday, May 09, 2017 12:38:44 PM Pacific Daylight Time

Name: 170509G1\_2, Date: 09-May-2017, Time: 10:09:47, ID: ST170509G1-1 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

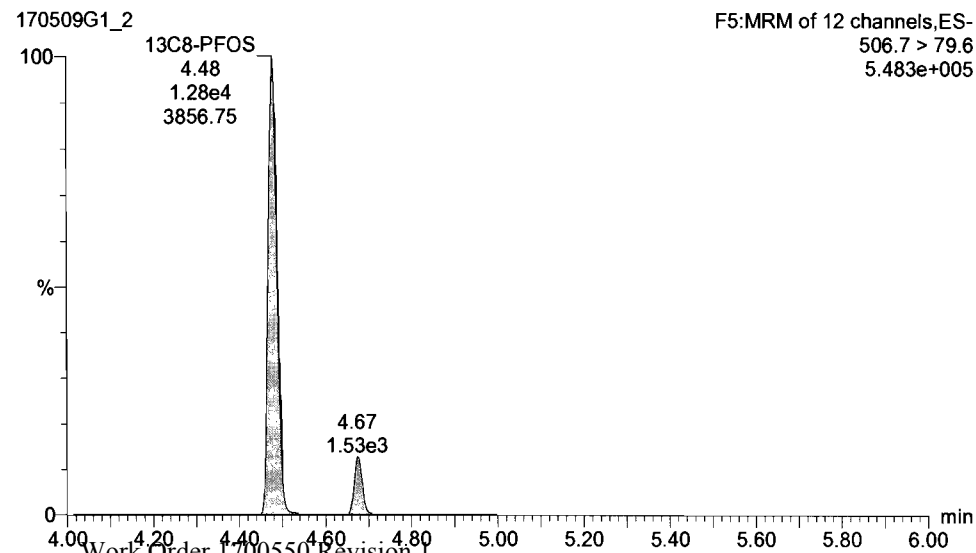
**PFOS**



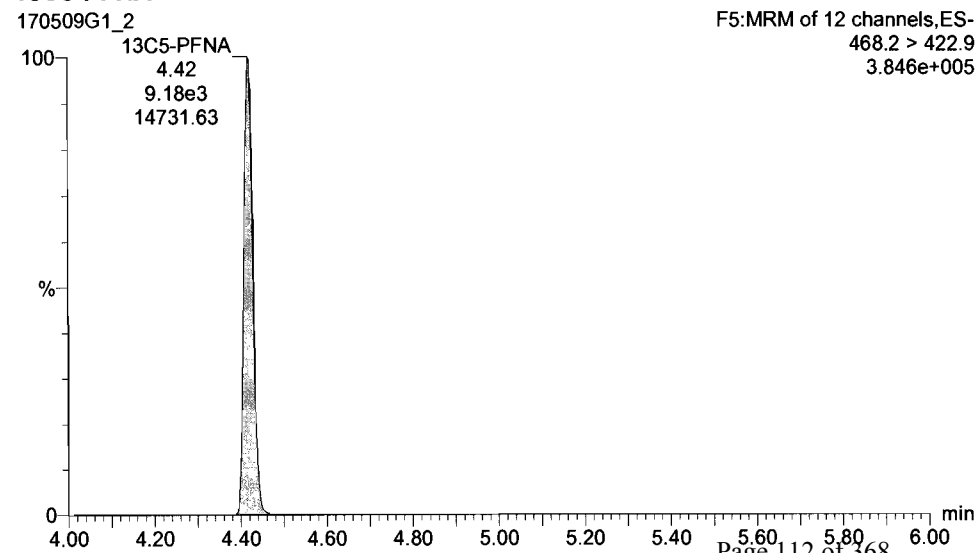
**PFNA**



**13C8-PFOS**

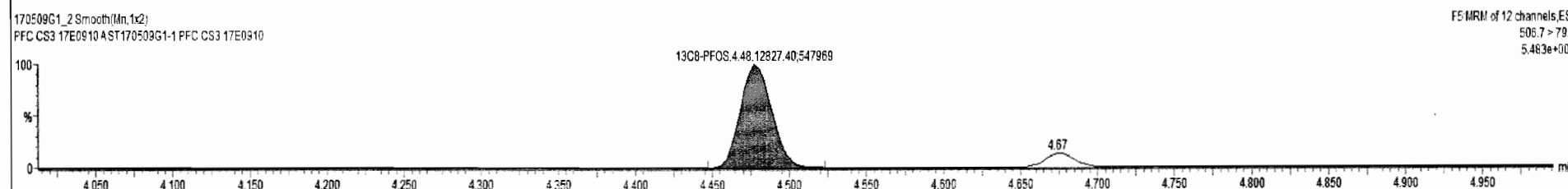
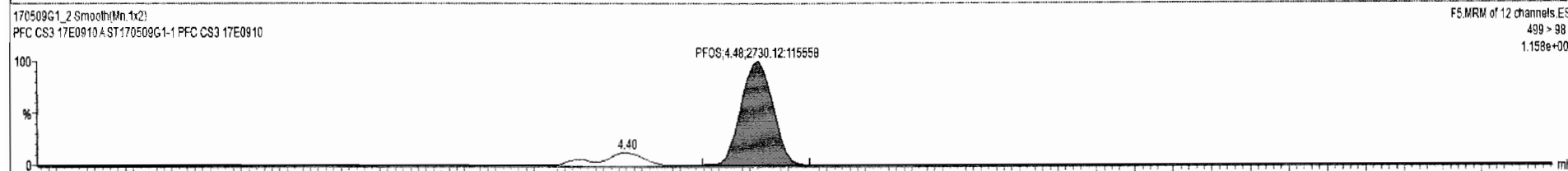
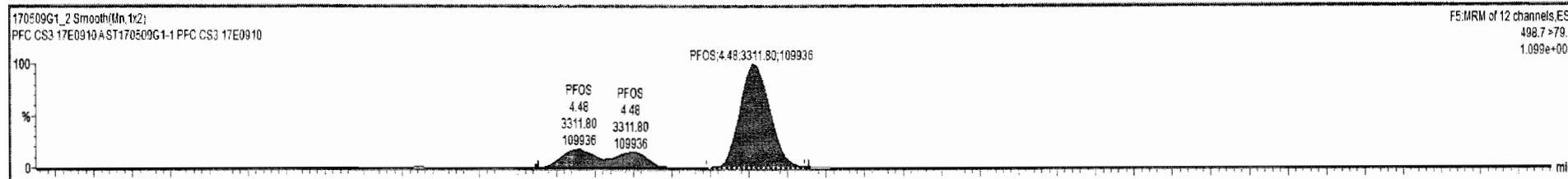


**13C5-PFNA**



170509G1\_2 - ST170509G1-1 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	Response	RRF	WtVol	RT	Conc.	%Rec	DL	%RSD	Coeff. OfD...
1	PFBS	298.8 > 79.7	1.68e4	34.395	3.439	1.000	2.85	12.2	121.9	0.0101829	0.9996
2	PFHpA	363 > 318.9	2.04e4	23.424	2.342	1.000	3.70	12.1	121.0	0.0000000	0.9981
3	PFHxS	398.8 > 79.8	1.35e4	26.403	2.640	1.000	3.81	10.9	109.5	0.0000000	0.9980
4	PFOA	412.8 > 369.0	1.88e4	10.375	1.037	1.000	4.09	10.6	105.1	0.0000000	0.9993
5	PFNA	462.8 > 418.8	2.33e4	31.708	3.171	1.000	4.42	10.3	102.9	0.0000000	0.9968
6	PFOS	498.7 > 79.8	3.31e3	3.227	3.323	1.000	4.48	8.69	86.9	0.1188994	0.9995
7	13C3-PFBS	302.0 > 98.8	6.10e3	5.799	0.454	1.000	2.85	12.8	102.5	0.0101812	3.87
8	13C4-PFHpA	367.2 > 321.8	1.09e4	10.344	0.828	1.000	3.70	12.1	96.6	0.0118369	4.31
9	18O2-PFHxS	403 > 102.6	6.40e3	6.086	0.487	1.000	3.81	13.5	110.8	0.0229945	4.28
10	13C2-PFOA	414.9 > 369.7	2.26e4	40.828	3.202	1.000	4.09	11.9	95.1	0.0369132	4.64
11	13C5-PFNA	468.2 > 422.9	9.18e3	11.954	0.956	1.000	4.42	13.2	105.3	0.020732	7.68
12	13C8-PFOS	506.7 > 79.6	1.28e4	18.000	1.440	1.000	4.48	13.8	110.4	0.0385397	3.13
13	13C5-PFHpA	318 > 272.9	2.01e4	12.500	1.000	1.000	3.20	12.5	100.0	0.0294916	0.000
14	13C3-PFHxS	401.9 > 79.9	1.31e4	12.500	1.000	1.000	3.81	12.5	100.0	0.034022	0.000
15	13C8-PFOA	421.3 > 376	7.07e3	12.500	1.000	1.000	4.09	12.5	100.0	0.0198904	0.000
16	13C9-PFNA	472.2 > 426.9	9.60e3	12.500	1.000	1.000	4.42	12.5	100.0	0.0145993	0.000
17	13C4-PFOS	503.0 > 79.9	8.91e3	12.500	1.000	1.000	4.48	12.5	100.0	0.0073285	0.000
18	Total PFBS	298.8 > 79.7	1.68e4	34.408		1.000		12.2			0.0000
19	Total PFHxS	398.8 > 79.8	1.62e4	31.597		1.000		13.1			0.0000
20	Total PFOA	412.8 > 369.0	1.88e4	10.375		1.000		10.6			0.0000
21	Total PFOS	498.7 > 79.8	3.74e3	3.640		1.000		9.97		0.1188994	0.0000



Dataset: Untitled

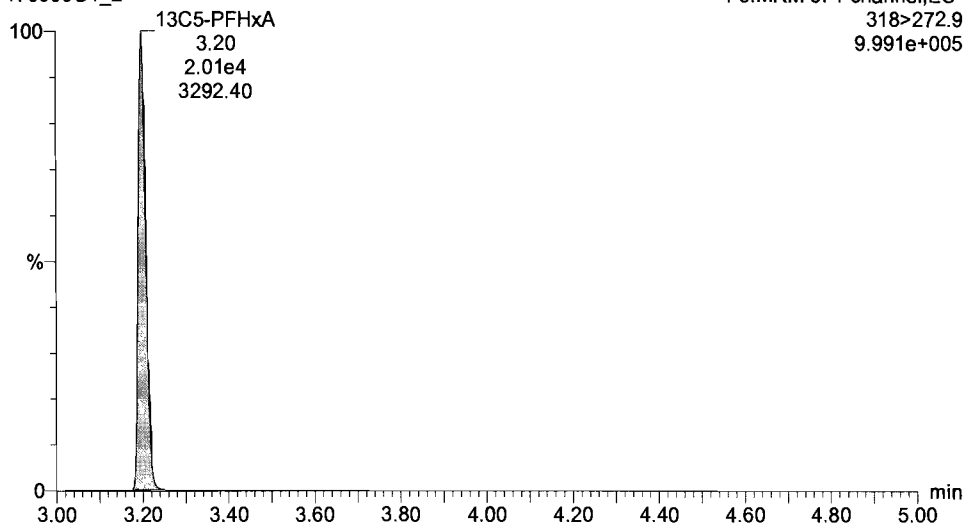
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Printed: Tuesday, May 09, 2017 12:38:44 PM Pacific Daylight Time

Name: 170509G1\_2, Date: 09-May-2017, Time: 10:09:47, ID: ST170509G1-1 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**13C5-PFHxA**

170509G1\_2

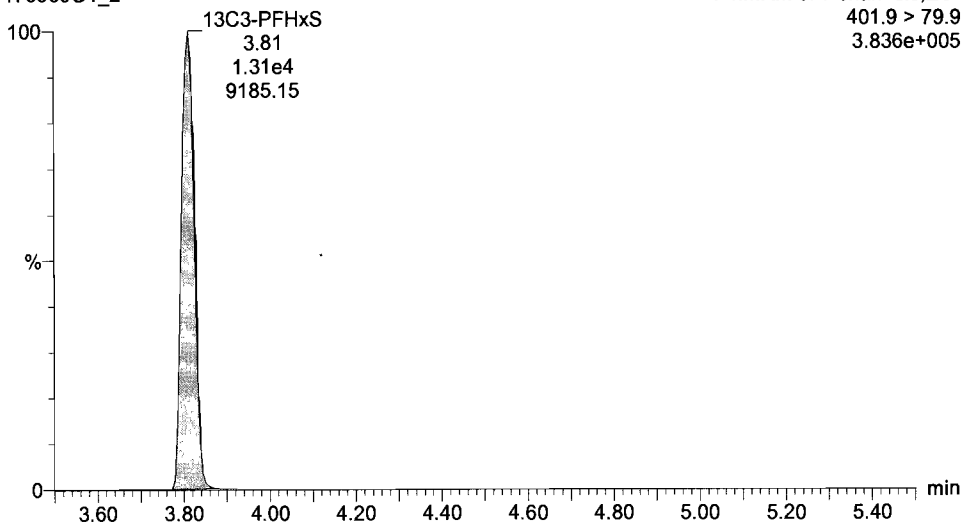
F3:MRM of 1 channel,ES-  
318>272.9  
9.991e+005



**13C3-PFHxS**

170509G1\_2

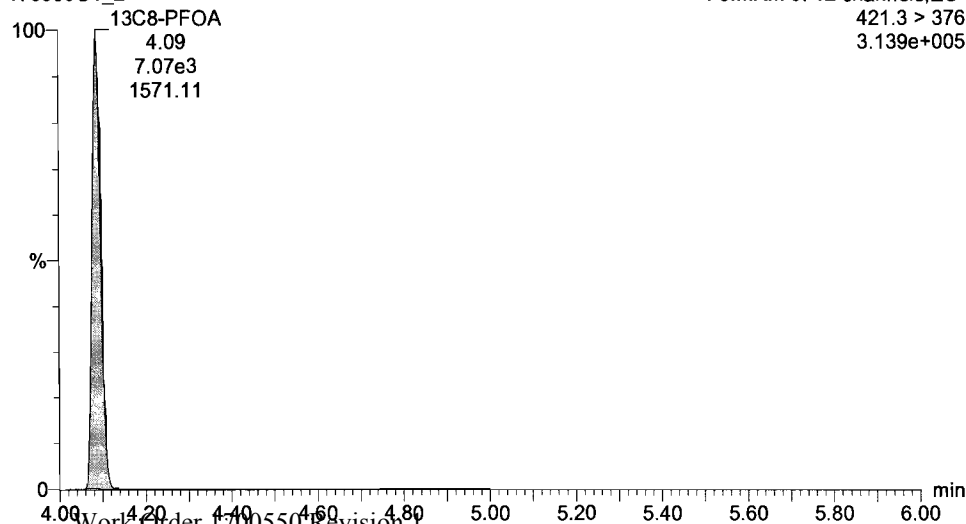
F4:MRM of 7 channels,ES-  
401.9 > 79.9  
3.836e+005



**13C8-PFOA**

170509G1\_2

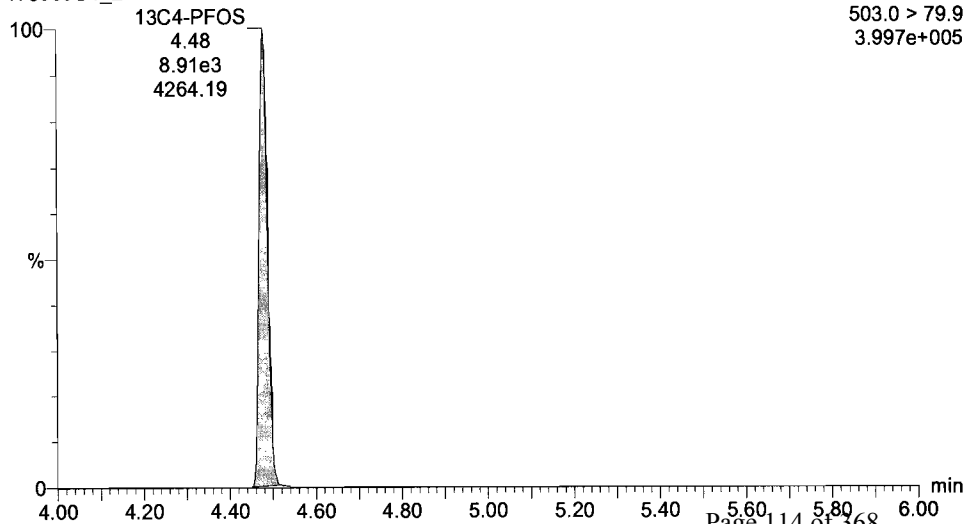
F5:MRM of 12 channels,ES-  
421.3 > 376  
3.139e+005



**13C4-PFOS**

170509G1\_2

F5:MRM of 12 channels,ES-  
503.0 > 79.9  
3.997e+005



Dataset: Untitled

Last Altered: Tuesday, May 09, 2017 12:38:22 PM Pacific Daylight Time

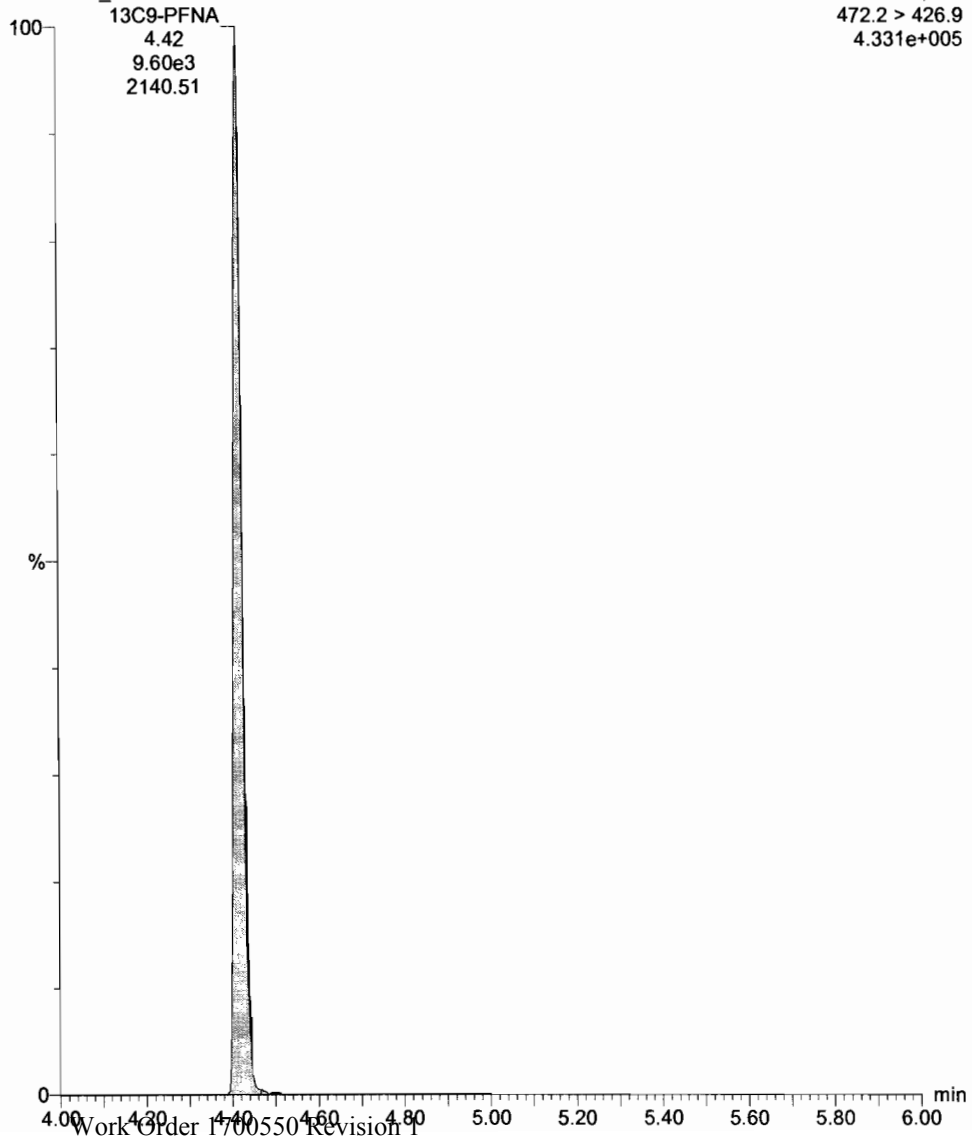
Printed: Tuesday, May 09, 2017 12:38:44 PM Pacific Daylight Time

Name: 170509G1\_2, Date: 09-May-2017, Time: 10:09:47, ID: ST170509G1-1 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

13C9-PFNA

170509G1\_2

F5:MRM of 12 channels,ES-  
472.2 > 426.9  
4.331e+005



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-22.qld

Last Altered: Tuesday, May 09, 2017 3:48:22 PM Pacific Daylight Time  
Printed: Tuesday, May 09, 2017 3:48:53 PM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_22, Date: 09-May-2017, Time: 14:22:04, ID: ST170509G1-2 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.64e4	6.53e3		1.000	2.86	11.1	111.4
2	2 PFHpA	363 > 318.9	2.14e4	1.18e4		1.000	3.70	11.7	117.3
3	3 PFHxS	398.8 > 79.8	1.45e4	6.32e3		1.000	3.81	11.9	119.0
4	4 PFOA	412.8 > 369.0	1.94e4	2.39e4		1.000	4.09	10.4	103.8
5	5 PFNA	462.8 > 418.8	2.25e4	1.08e4		1.000	4.42	8.42	84.2
6	6 PFOS	498.7 > 79.8	3.41e3	1.20e4		1.000	4.48	9.54	95.4
7	7 13C3-PFBS	302.0 > 98.8	6.53e3	1.37e4	0.453	1.000	2.85	13.1	105.0
8	8 13C4-PFHpA	367.2 > 321.8	1.18e4	1.37e4	0.857	1.000	3.70	12.5	100.2
9	9 18O2-PFHxS	403 > 102.6	6.32e3	1.37e4	0.440	1.000	3.81	13.1	104.6
10	10 13C2-PFOA	414.9 > 369.7	2.39e4	8.11e3	3.366	1.000	4.09	10.9	87.5
11	11 13C5-PFNA	468.2 > 422.9	1.08e4	1.14e4	0.909	1.000	4.42	13.1	104.6
12	12 13C8-PFOS	506.7 > 79.6	1.20e4	1.03e4	1.304	1.000	4.48	11.2	89.4
13	13 13C5-PFHxA	318 > 272.9	2.00e4	2.00e4	1.000	1.000	3.20	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.37e4	1.37e4	1.000	1.000	3.81	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	8.11e3	8.11e3	1.000	1.000	4.09	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.14e4	1.14e4	1.000	1.000	4.42	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.03e4	1.03e4	1.000	1.000	4.48	12.5	100.0

Handwritten notes in the right margin of the table:  
 75-125 (with arrow pointing to row 1)  
 10-150 (with arrow pointing to row 7)  
 50-150 (with arrow pointing to row 10)  
 10-150 (with arrow pointing to row 12)

Handwritten signature and date:  
 DM  
 5/9/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work Order 170548-15 15 0.24597	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

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Last Altered: Tuesday, May 09, 2017 3:47:33 PM Pacific Daylight Time

Printed: Tuesday, May 09, 2017 3:47:48 PM Pacific Daylight Time

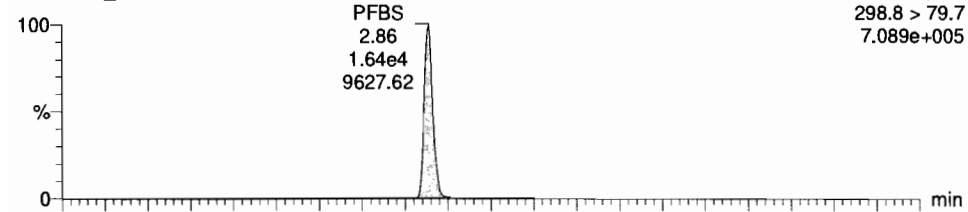
Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_22, Date: 09-May-2017, Time: 14:22:04, ID: ST170509G1-2 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

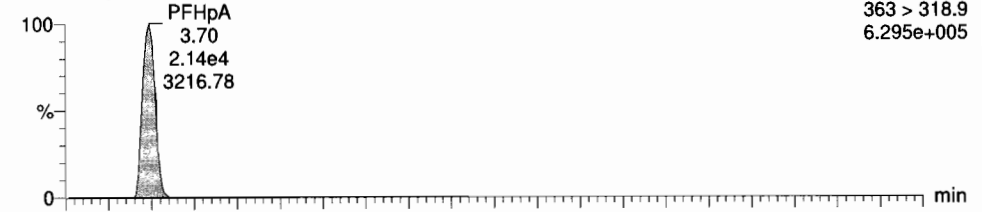
**PFBS**

170509G1\_22

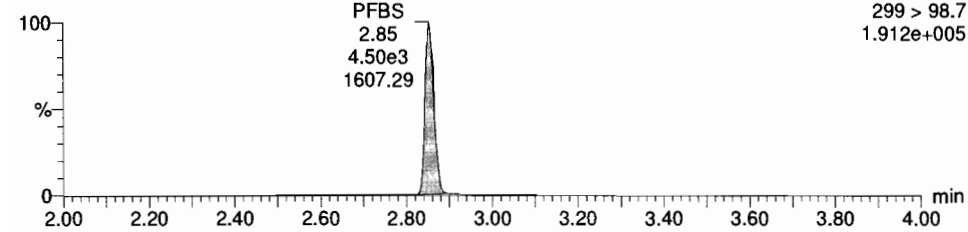


**PFHpA**

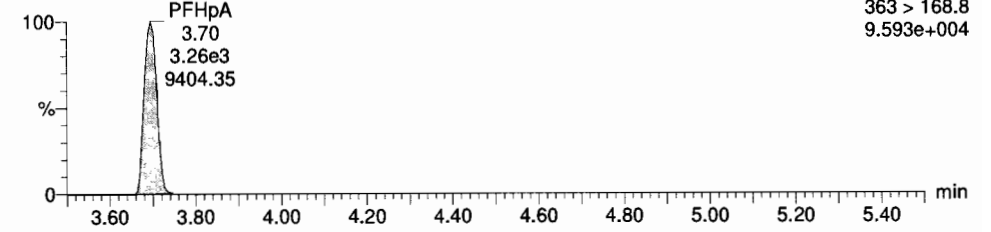
170509G1\_22



170509G1\_22

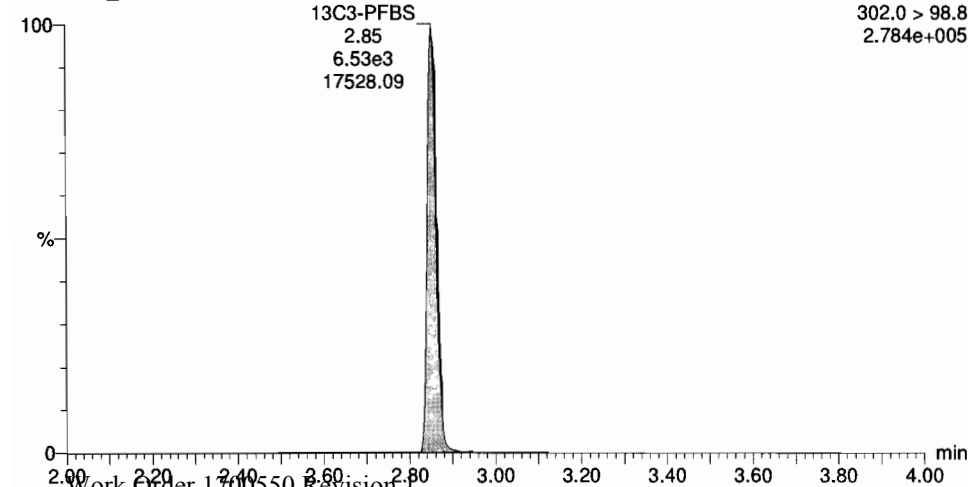


170509G1\_22



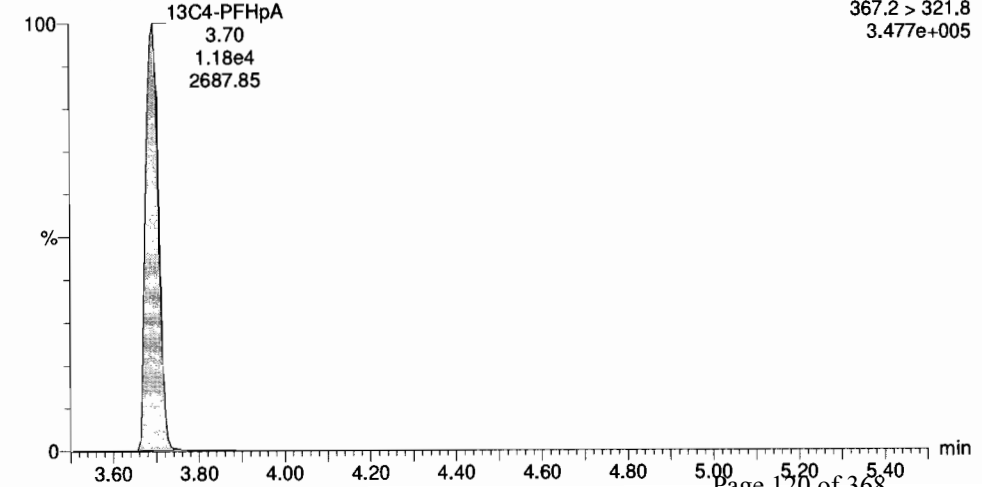
**13C3-PFBS**

170509G1\_22



**13C4-PFHpA**

170509G1\_22



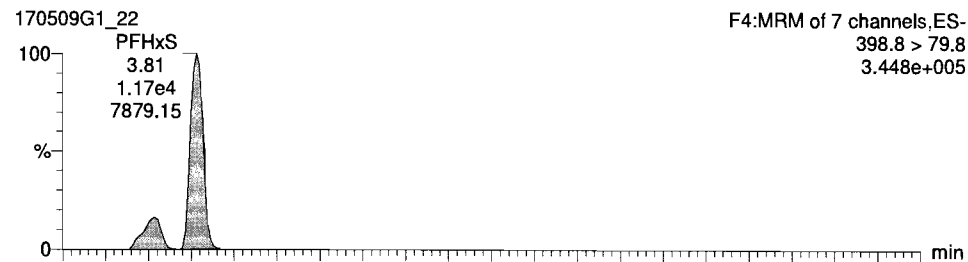
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Last Altered: Tuesday, May 09, 2017 3:47:33 PM Pacific Daylight Time

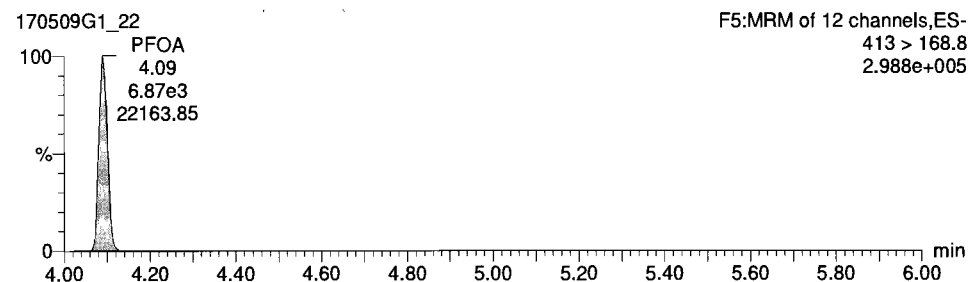
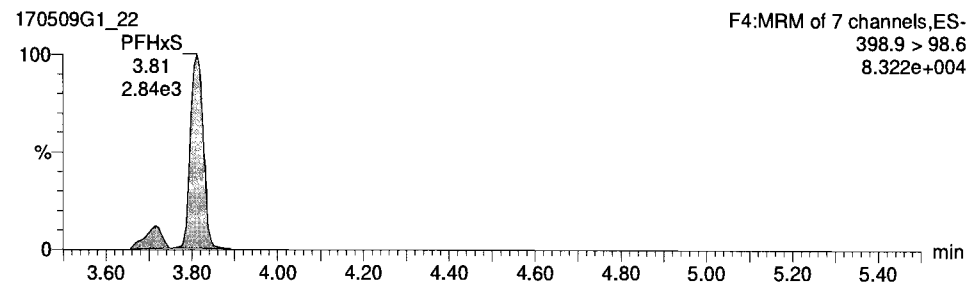
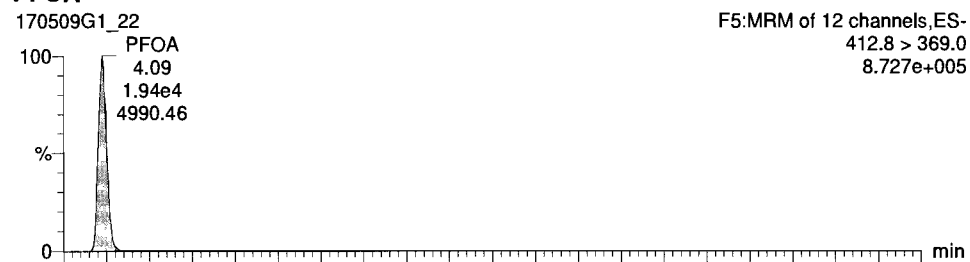
Printed: Tuesday, May 09, 2017 3:47:48 PM Pacific Daylight Time

Name: 170509G1\_22, Date: 09-May-2017, Time: 14:22:04, ID: ST170509G1-2 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

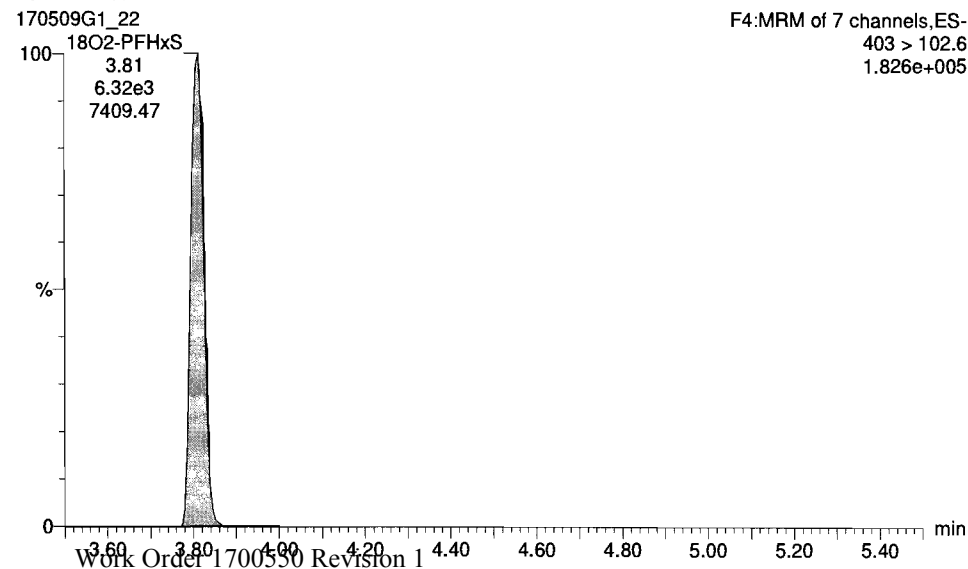
**PFHxS**



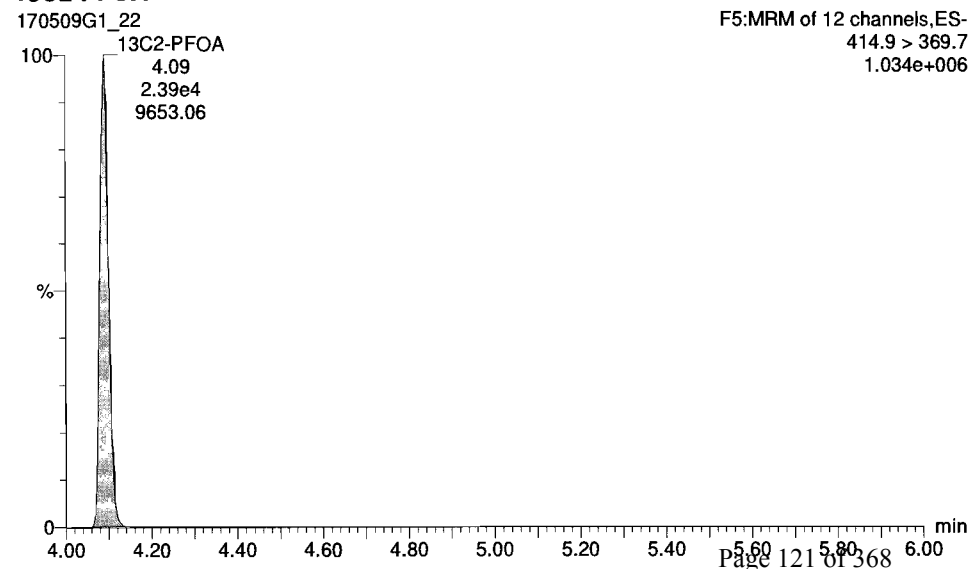
**PFOA**



**18O2-PFHxS**

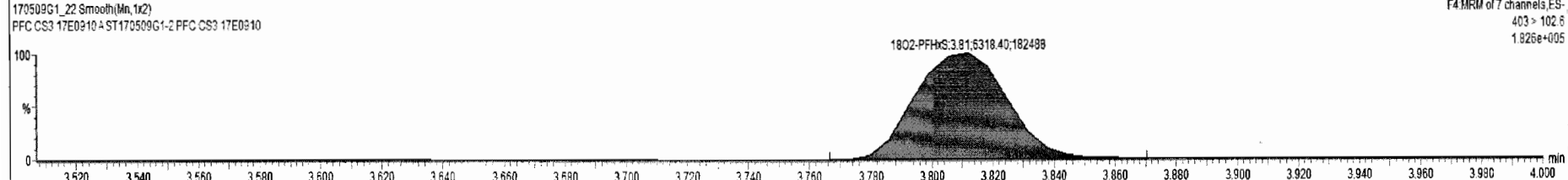
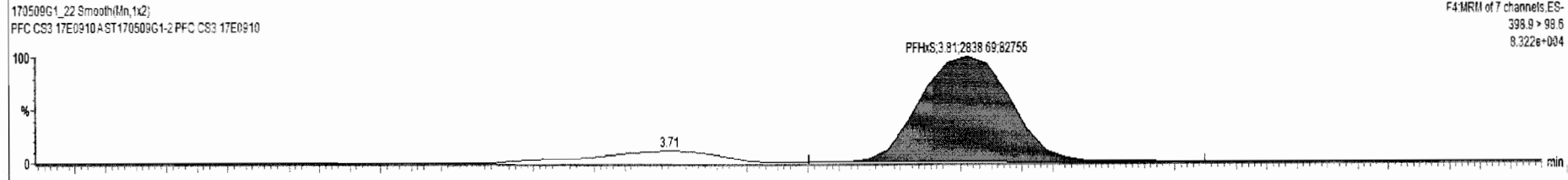
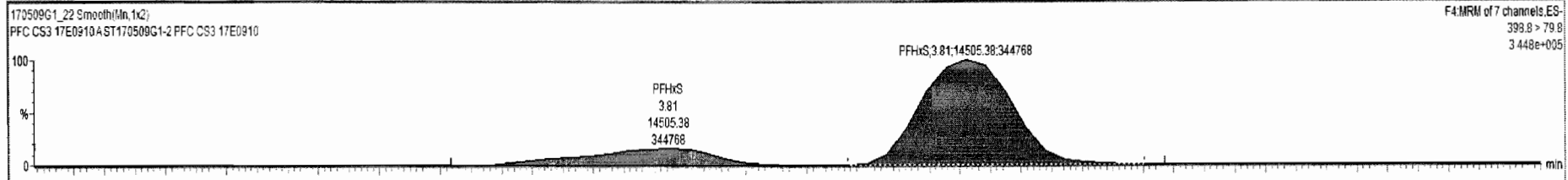


**13C2-PFOA**



170509G1\_22 - ST170509G1-2 PFC CS3 17E0910 - PFC CS3 17E0910A

Name	Trace	Area	RPF	Wt%Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL	
1	PFBS	298.8 > 79.7	1.64e4		1.000	2.85	2.85	11.1	YES	111.4	0.0028974
2	PFHpA	363 > 318.9	2.14e4		1.000	3.70	3.70	11.7	YES	117.3	0.0000000
3	PFHxS	398.8 > 79.8	1.45e4		1.000	3.81	3.81	11.9	YES	119.0	0.0000000
4	PFOA	412.8 > 369.0	1.94e4		1.000	4.09	4.09	10.4	YES	103.8	0.0000000
5	PFNA	462.8 > 418.8	2.25e4		1.000	4.42	4.42	8.42	YES	84.2	0.0000000
6	PFOS	498.7 > 79.8	3.41e3		1.000	4.49	4.48	9.54	YES	95.4	0.0891368
7	13C3-PFBS	302.0 > 96.8	6.53e3	0.453	1.000	2.84	2.85	13.1	NO	105.0	0.0027194
8	13CA-PFHpA	367.2 > 321.8	1.18e4	0.857	1.000	3.70	3.70	12.5	NO	100.2	0.0116796
9	18O2-PFHxS	403 > 102.6	6.32e3	0.440	1.000	3.81	3.81	13.1	NO	104.6	0.0043431
10	13C2-PFOA	414.9 > 369.7	2.39e4	3.37	1.000	4.09	4.09	10.9	NO	87.5	0.0027474
11	13C5-PFNA	468.2 > 422.9	1.08e4	0.909	1.000	4.42	4.42	13.1	NO	104.6	0.0032394
12	13C8-PFOS	506.7 > 79.6	1.20e4	1.30	1.000	4.48	4.48	11.2	NO	89.4	0.0080818
13	13C5-PFHxA	318 > 272.9	2.00e4	1.00	1.000	3.29	3.20	12.5	NO	100.0	0.0045929
14	13C3-PFHxS	401.9 > 79.9	1.37e4	1.00	1.000	3.94	3.81	12.5	NO	100.0	0.0091721
15	13C8-PFOA	421.3 > 376	6.11e3	1.00	1.000	4.22	4.09	12.5	NO	100.0	0.0224953
16	13C9-PFNA	472.2 > 426.9	1.14e4	1.00	1.000	4.56	4.42	12.5	NO	100.0	0.0013076
17	13CA-PFOS	503.0 > 79.9	1.03e4	1.00	1.000	4.67	4.48	12.5	NO	100.0	0.0049480
18	Total PFBS	298.8 > 79.7	1.64e4		1.000	3.11		11.1	NO		
19	Total PFHxS	398.8 > 79.8	1.72e4		1.000	4.09		14.1	NO		
20	Total PFOA	412.8 > 369.0	1.94e4		1.000	4.22		10.4	NO		
21	Total PFOS	498.7 > 79.8	4.28e3		1.000	4.61		12.1	NO		0.0891368



Dataset: Untitled

Last Altered: Tuesday, May 09, 2017 3:47:33 PM Pacific Daylight Time

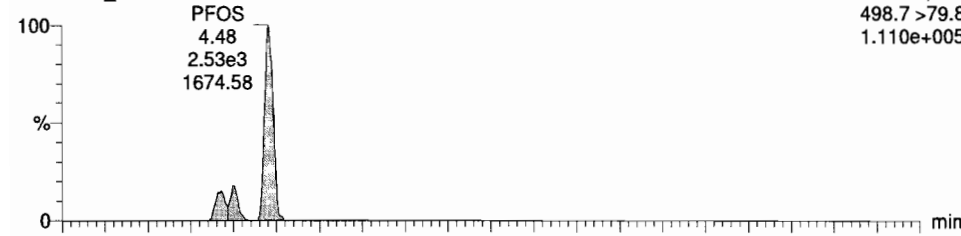
Printed: Tuesday, May 09, 2017 3:47:48 PM Pacific Daylight Time

Name: 170509G1\_22, Date: 09-May-2017, Time: 14:22:04, ID: ST170509G1-2 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFOS**

170509G1\_22

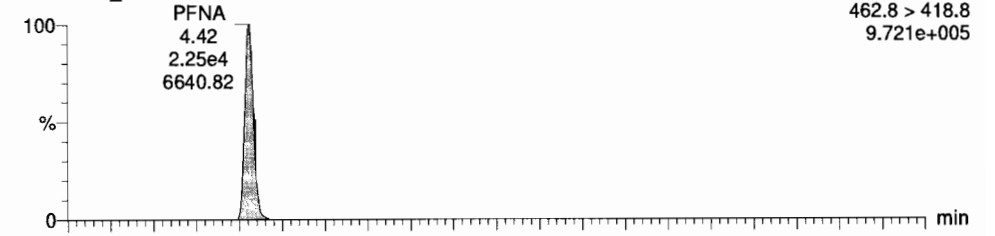
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498.7 > 79.8  
1.110e+005



**PFNA**

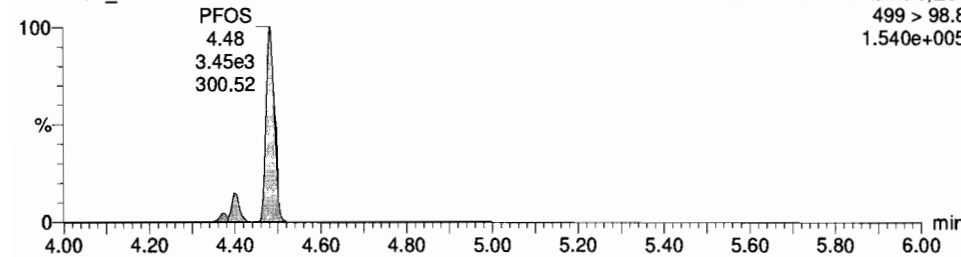
170509G1\_22

F5:MRM of 12 channels,ES-  
462.8 > 418.8  
9.721e+005



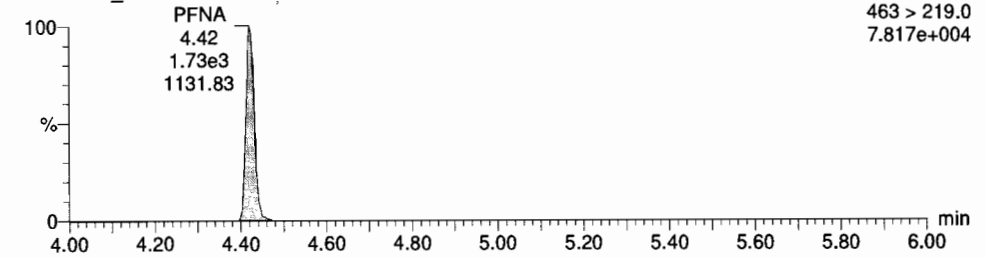
170509G1\_22

F5:MRM of 12 channels,ES-  
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1.540e+005



170509G1\_22

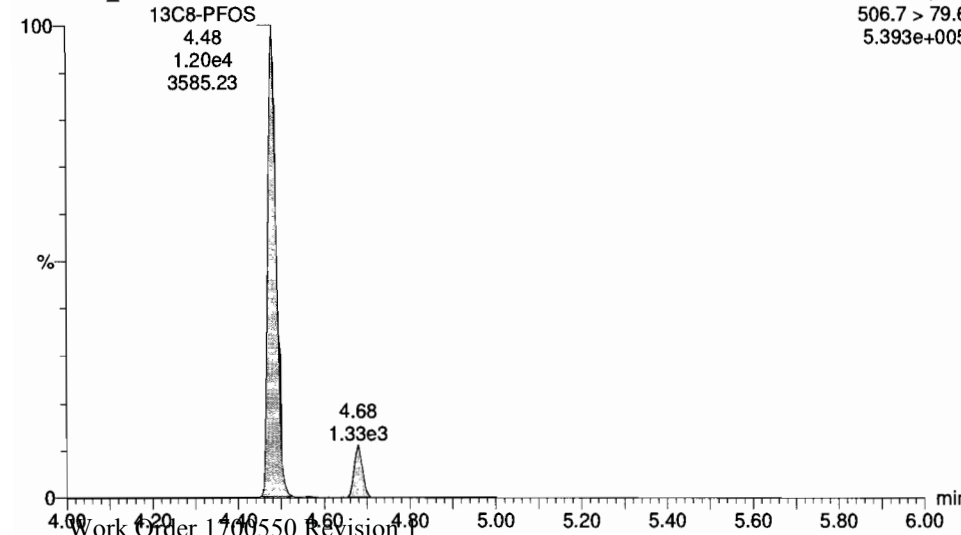
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7.817e+004



**13C8-PFOS**

170509G1\_22

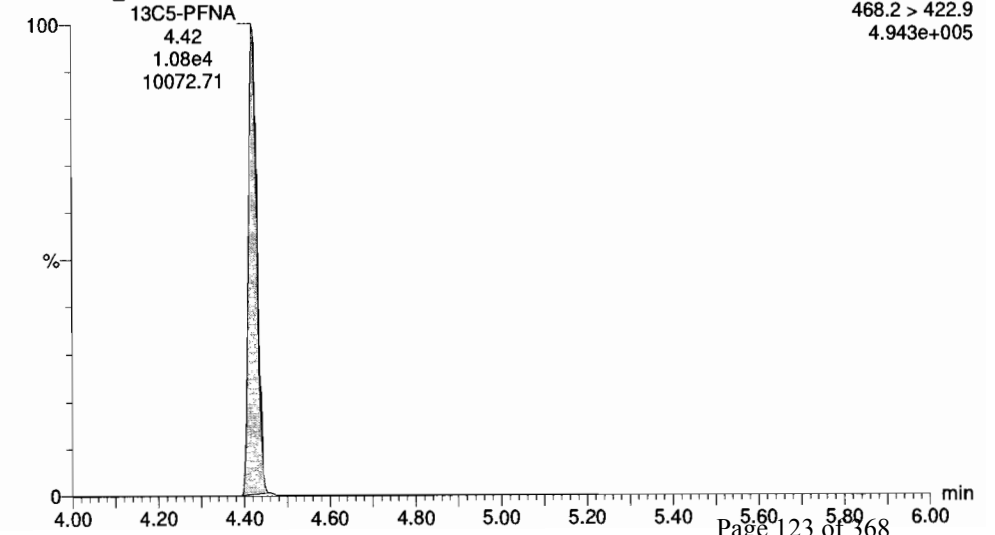
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506.7 > 79.6  
5.393e+005



**13C5-PFNA**

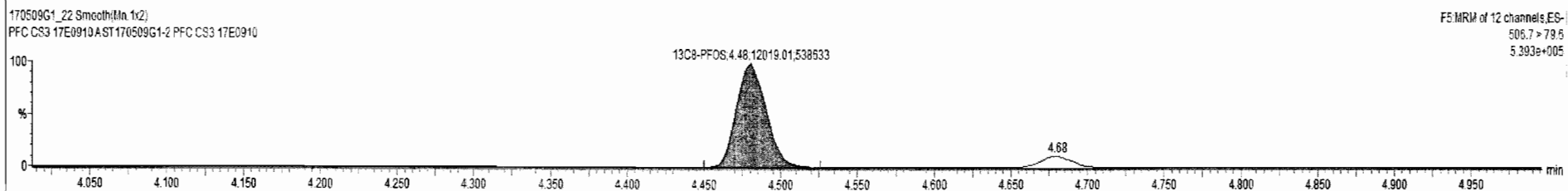
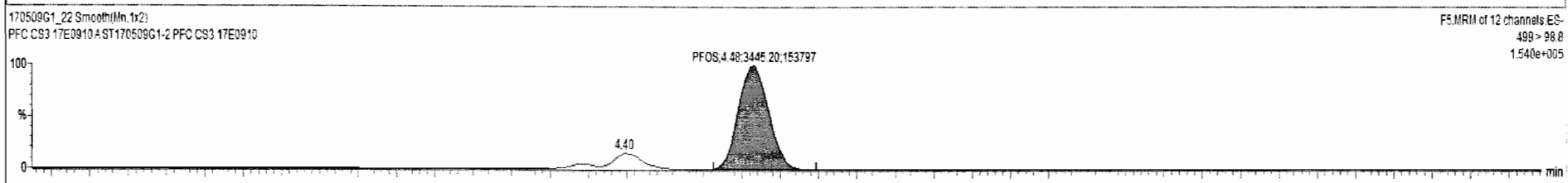
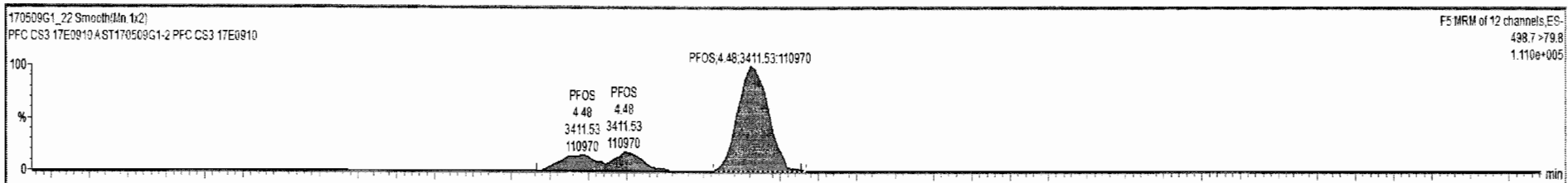
170509G1\_22

F5:MRM of 12 channels,ES-  
468.2 > 422.9  
4.943e+005



170509G1\_22 - ST170509G1-2 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	RRF	WtVol	Pred.RT	RT	Conc.	>MDL	%Rec	DL	
1	PFBS	298.8 > 79.7	1.84e4	1.000	2.85	2.86	11.1	YES	111.4	0.0026974	
2	PFHpA	363 > 318.9	2.14e4	1.000	3.70	3.70	11.7	YES	117.3	0.0000060	
3	PFHxS	398.8 > 79.8	1.45e4	1.000	3.81	3.81	11.9	YES	118.0	0.0000000	
4	PFOA	412.8 > 369.0	1.94e4	1.000	4.09	4.09	10.4	YES	103.8	0.0000000	
5	PFNA	462.8 > 418.5	2.25e4	1.000	4.42	4.42	8.42	YES	84.2	0.0000000	
6	PFOS	498.7 > 79.8	3.41e3	1.000	4.49	4.48	8.54	YES	95.4	0.0891368	
7	13C3-PFBS	362.0 > 96.8	6.53e3	0.453	1.000	2.84	2.85	13.1	NO	105.0	0.0027194
8	13C4-PFHpA	367.2 > 321.8	1.18e4	0.857	1.000	3.70	3.70	12.5	NO	100.2	0.0116796
9	13C2-PFHxS	403 > 102.6	6.32e3	0.440	1.000	3.81	3.81	13.1	NO	104.6	0.0043431
10	13C2-PFOA	414.9 > 369.7	2.39e4	3.37	1.000	4.09	4.09	10.9	NO	87.5	0.0027474
11	13C5-PFNA	468.2 > 422.9	1.88e4	0.809	1.000	4.42	4.42	13.1	NO	104.6	0.0032394
12	13C8-PFOS	506.7 > 79.6	1.20e4	1.30	1.000	4.48	4.48	11.2	NO	89.4	0.0080818
13	13C5-PFHxA	318 > 272.9	2.00e4	1.00	1.000	3.29	3.29	12.5	NO	100.0	0.0045929
14	13C3-PFHxS	401.9 > 79.9	1.37e4	1.00	1.000	3.94	3.81	12.5	NO	100.0	0.0091721
15	13C8-PFOA	421.3 > 376	8.11e3	1.00	1.000	4.22	4.09	12.5	NO	100.0	0.0224953
16	13C9-PFNA	472.2 > 428.9	1.14e4	1.00	1.000	4.56	4.42	12.5	NO	100.0	0.0013076
17	13C4-PFOS	505.6 > 79.9	1.03e4	1.00	1.000	4.67	4.48	12.5	NO	100.0	0.0049480
18	Total PFBS	298.8 > 79.7	1.84e4		1.000	3.11		11.1	NO		
19	Total PFHxS	398.8 > 79.8	1.72e4		1.000	4.09		14.1	NO		
20	Total PFOA	412.8 > 369.0	1.94e4		1.000	4.22		10.4	NO		
21	Total PFOS	498.7 > 79.6	4.28e3		1.000	4.61		12.1	NO		0.0891368



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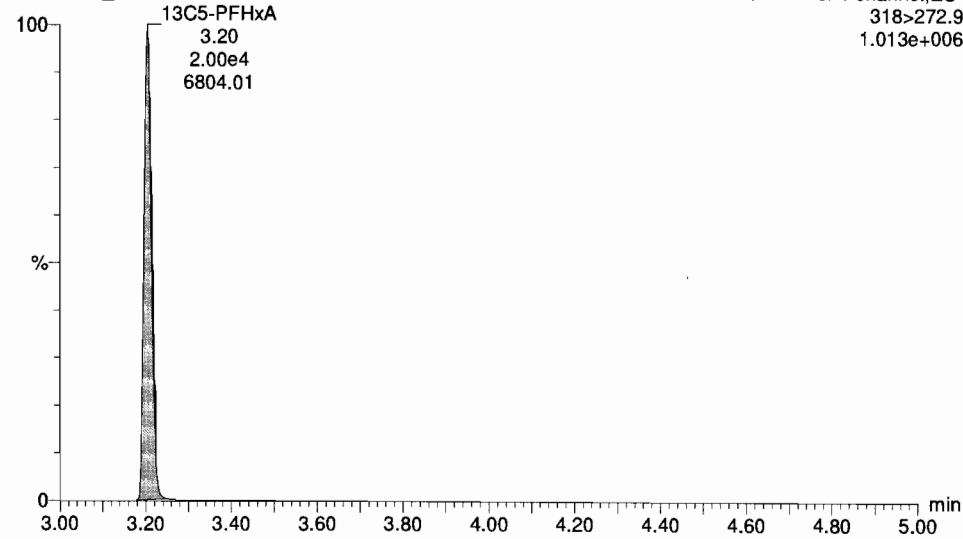
Last Altered: Tuesday, May 09, 2017 3:47:33 PM Pacific Daylight Time

Printed: Tuesday, May 09, 2017 3:47:48 PM Pacific Daylight Time

Name: 170509G1\_22, Date: 09-May-2017, Time: 14:22:04, ID: ST170509G1-2 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

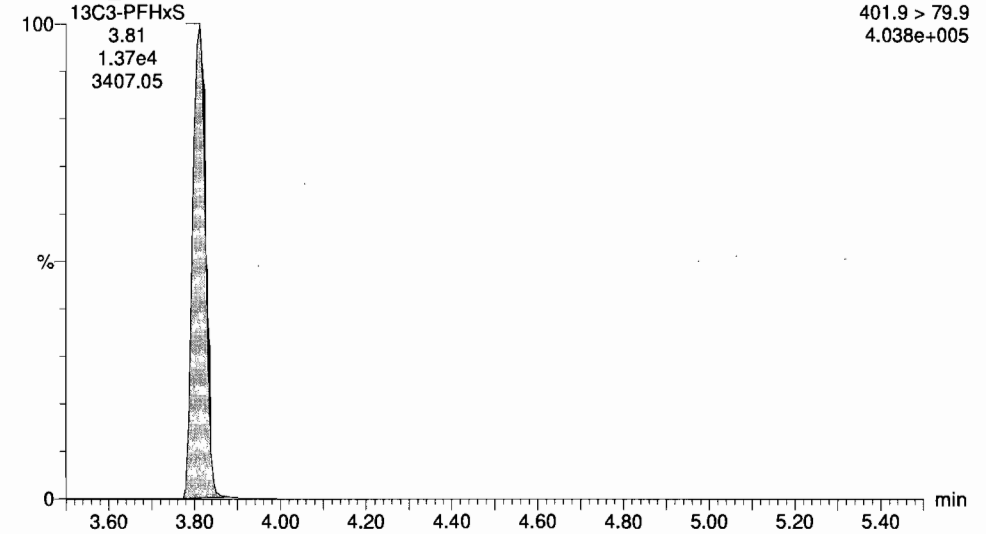
**13C5-PFHxA**

170509G1\_22



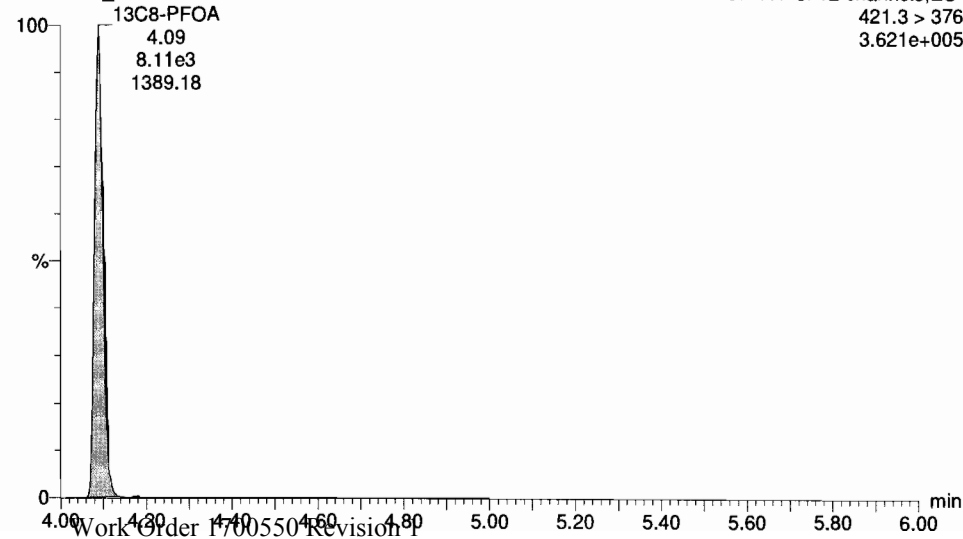
**13C3-PFHxS**

170509G1\_22



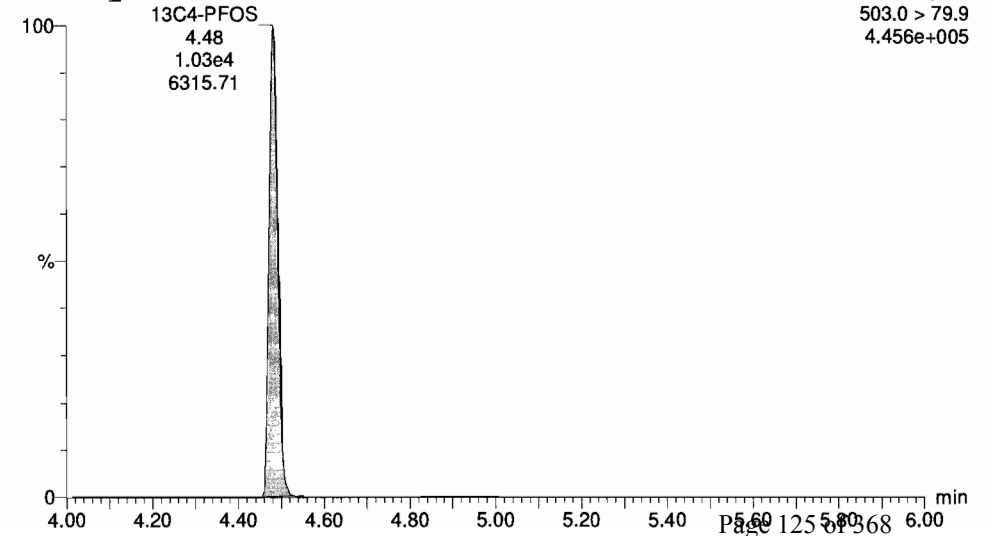
**13C8-PFOA**

170509G1\_22



**13C4-PFOS**

170509G1\_22



Dataset: Untitled

Last Altered: Tuesday, May 09, 2017 3:47:33 PM Pacific Daylight Time

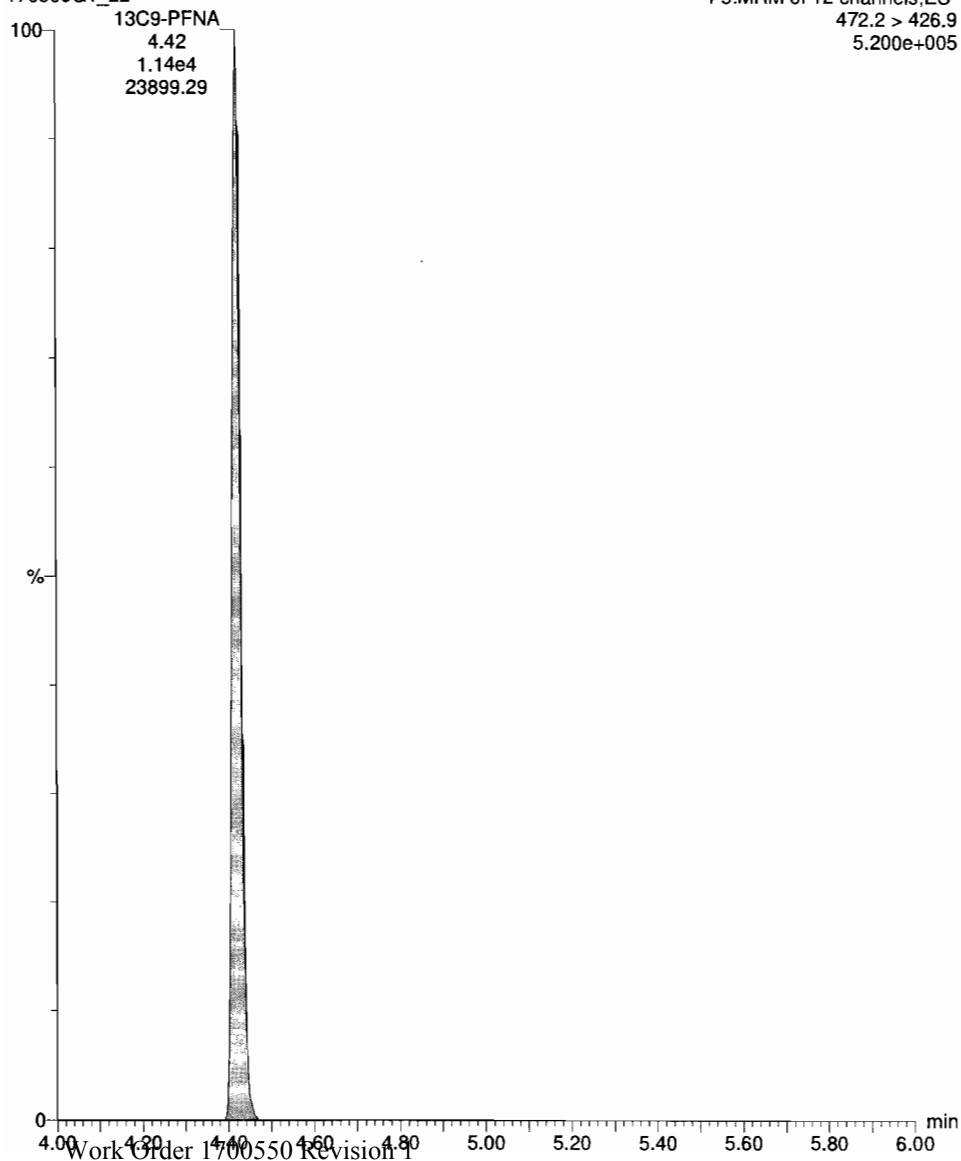
Printed: Tuesday, May 09, 2017 3:47:48 PM Pacific Daylight Time

Name: 170509G1\_22, Date: 09-May-2017, Time: 14:22:04, ID: ST170509G1-2 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

13C9-PFNA

170509G1\_22

F5:MRM of 12 channels,ES-  
472.2 > 426.9  
5.200e+005





Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-35.qld

Last Altered: Wednesday, May 10, 2017 09:11:13 Pacific Daylight Time

Printed: Wednesday, May 10, 2017 09:11:23 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\IC18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_35, Date: 09-May-2017, Time: 17:06:19, ID: ST170509G1-3 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.75e4	6.69e3	1.000	2.89	11.6	116.2	116.2
2	2 PFHpA	363 > 318.9	2.33e4	1.23e4	1.000	3.77	12.2	122.1	122.1
3	3 PFHxS	398.8 > 79.8	1.34e4	6.75e3	1.000	3.88	10.3	103.2	103.2
4	4 PFOA	412.8 > 369.0	1.83e4	2.60e4	1.000	4.17	8.98	89.8	89.8
5	5 PFNA	462.8 > 418.8	2.55e4	1.07e4	1.000	4.51	9.70	97.0	97.0
6	6 PFOS	498.7 > 79.8	3.10e3	1.38e4	1.000	4.57	7.58	75.8	75.8
7	7 13C3-PFBS	302.0 > 98.8	6.69e3	1.43e4	0.453	1.000	2.89	13.0	103.6
8	8 13C4-PFHpA	367.2 > 321.8	1.23e4	1.43e4	0.857	1.000	3.77	12.6	100.8
9	9 18O2-PFHxS	403 > 102.6	6.75e3	1.43e4	0.440	1.000	3.88	13.5	107.6
10	10 13C2-PFOA	414.9 > 369.7	2.60e4	9.23e3	3.366	1.000	4.17	10.5	83.6
11	11 13C5-PFNA	468.2 > 422.9	1.07e4	1.20e4	0.909	1.000	4.51	12.3	98.1
12	12 13C8-PFOS	506.7 > 79.6	1.38e4	9.98e3	1.304	1.000	4.57	13.2	105.7
13	13 13C5-PFHxA	318 > 272.9	2.10e4	2.10e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.43e4	1.43e4	1.000	1.000	3.88	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	9.23e3	9.23e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.20e4	1.20e4	1.000	1.000	4.50	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	9.98e3	9.98e3	1.000	1.000	4.57	12.5	100.0

75-125  
60-150  
50-150  
40-150

AM  
5/10/17  
W 5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work Order 170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-35.qld

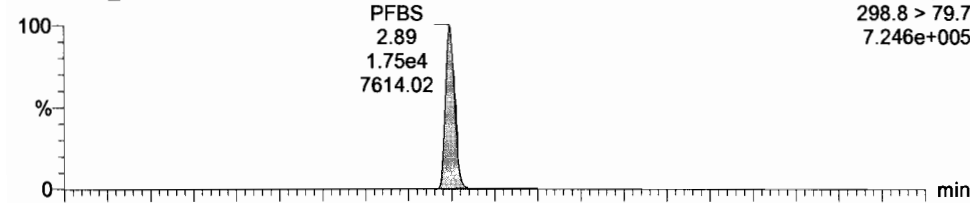
Last Altered: Wednesday, May 10, 2017 08:44:52 Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 09:10:21 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_35, Date: 09-May-2017, Time: 17:06:19, ID: ST170509G1-3 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

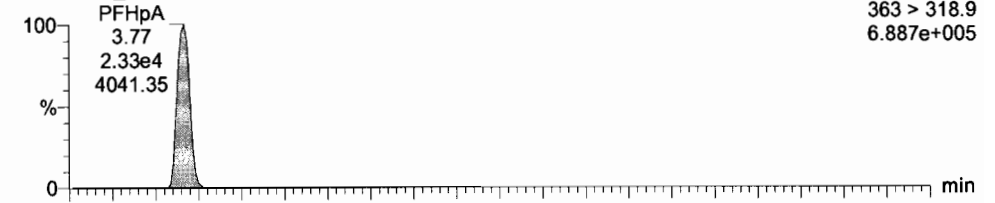
**PFBS**

170509G1\_35

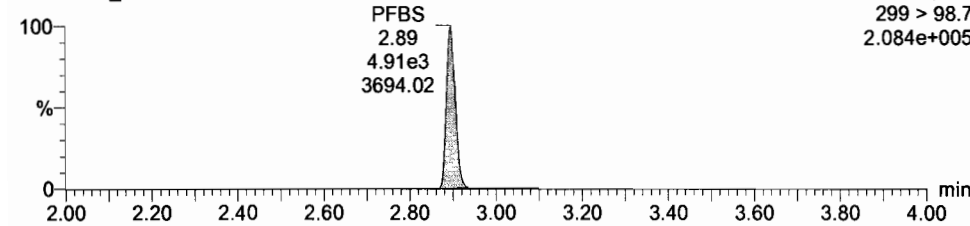


**PFHpA**

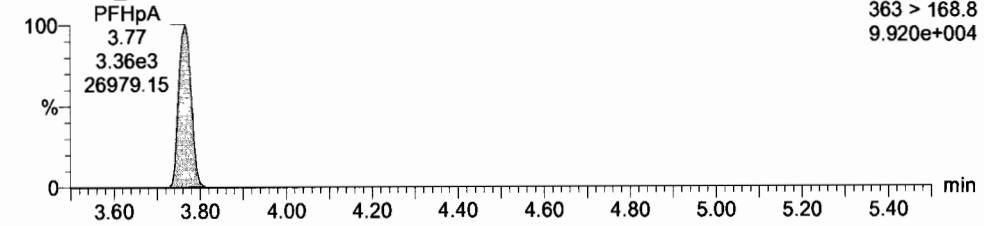
170509G1\_35



170509G1\_35

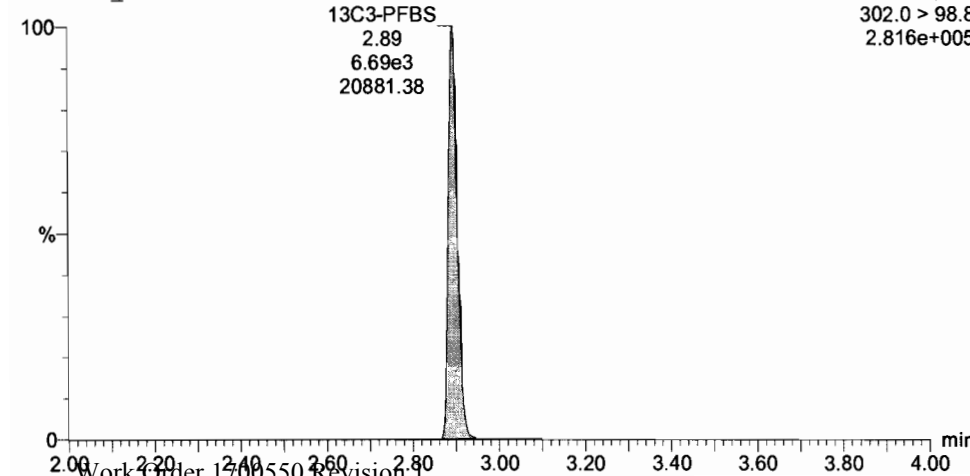


170509G1\_35



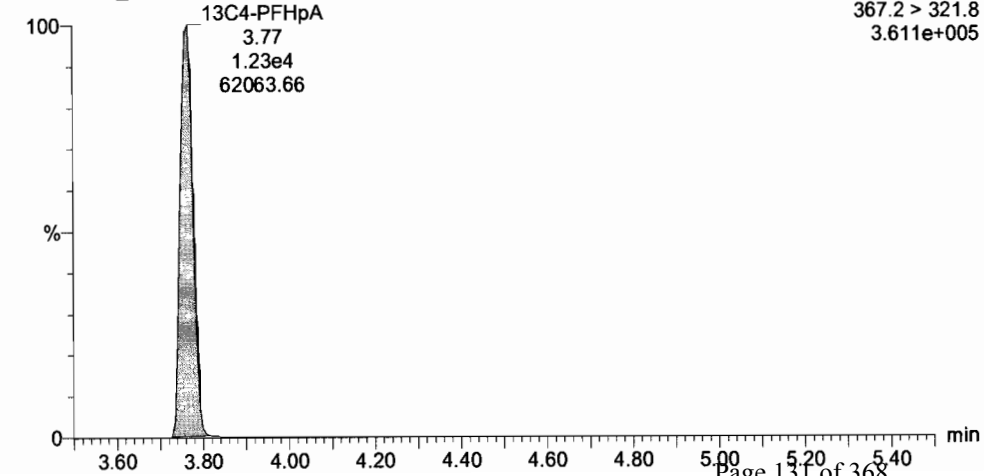
**13C3-PFBS**

170509G1\_35



**13C4-PFHpA**

170509G1\_35

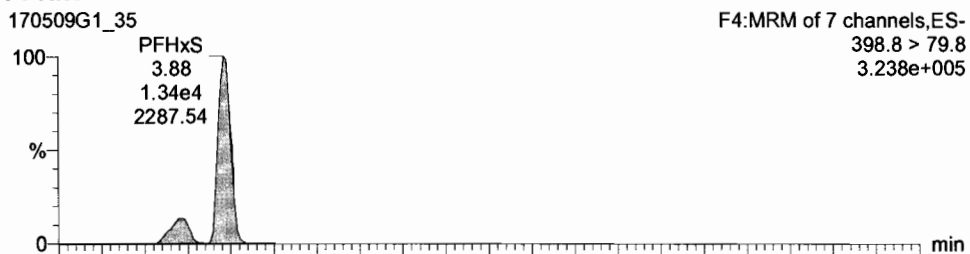


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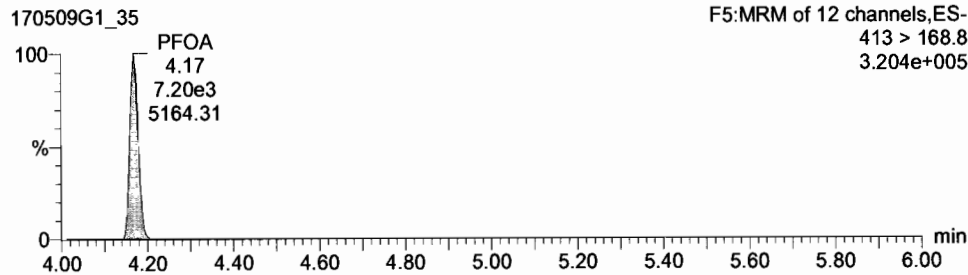
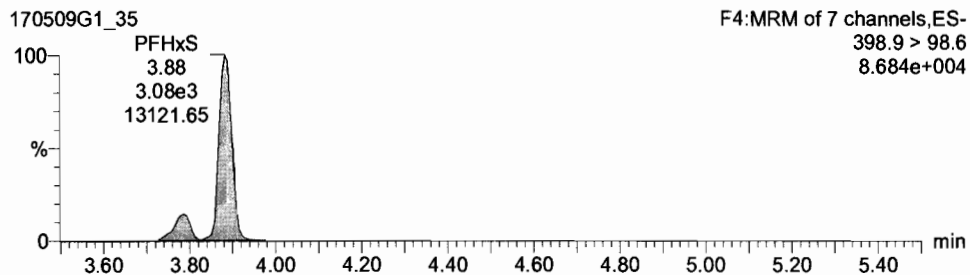
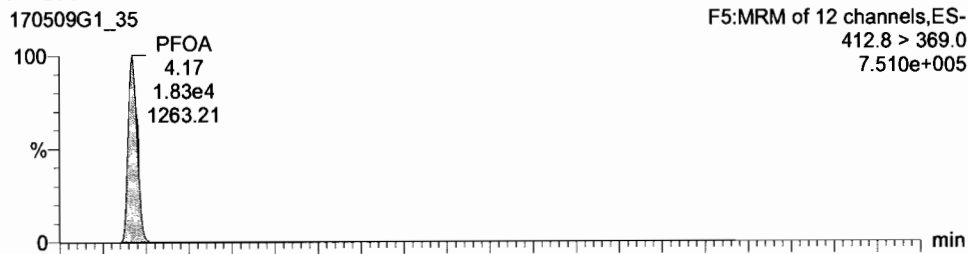
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Printed: Wednesday, May 10, 2017 09:10:21 Pacific Daylight Time

Name: 170509G1\_35, Date: 09-May-2017, Time: 17:06:19, ID: ST170509G1-3 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

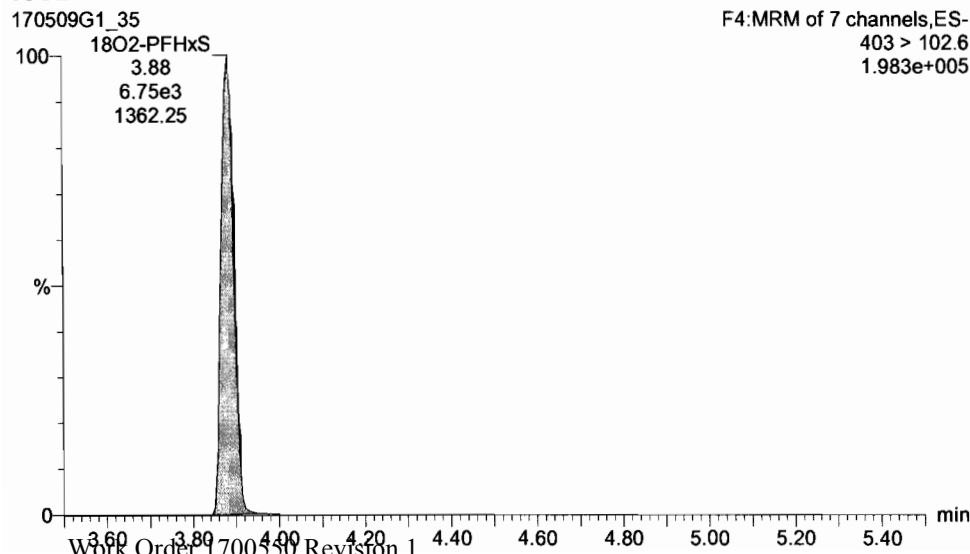
**PFHxS**



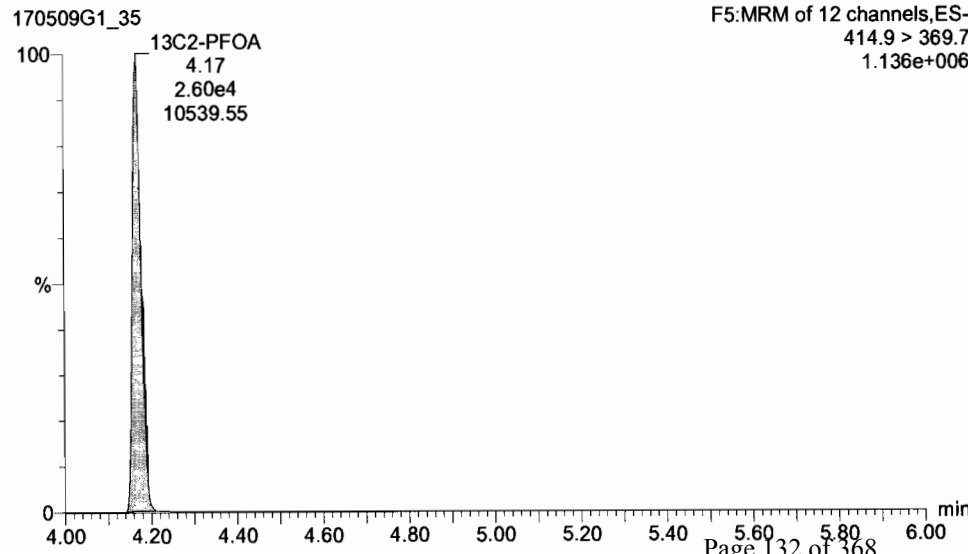
**PFOA**



**18O2-PFHxS**

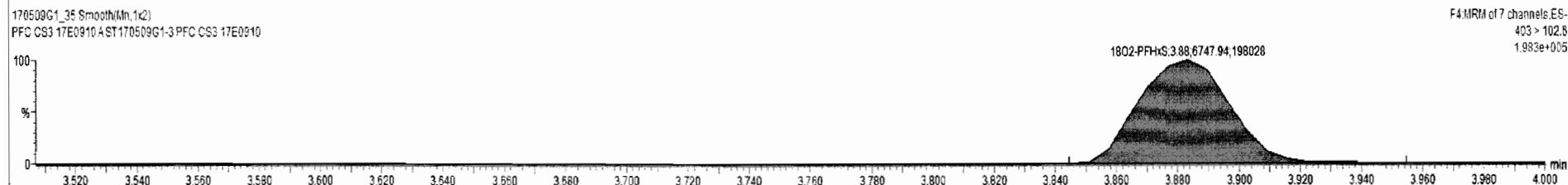
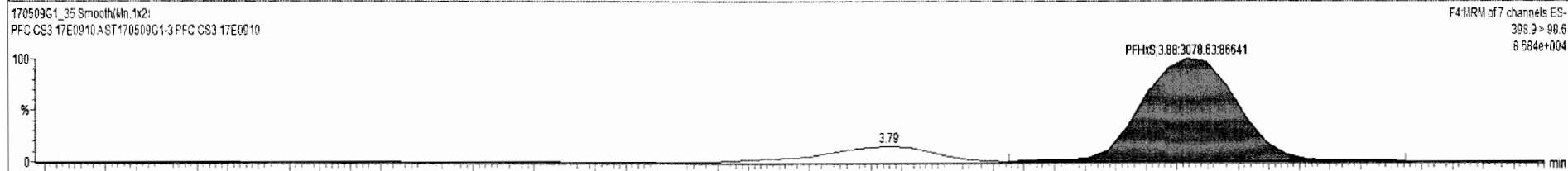
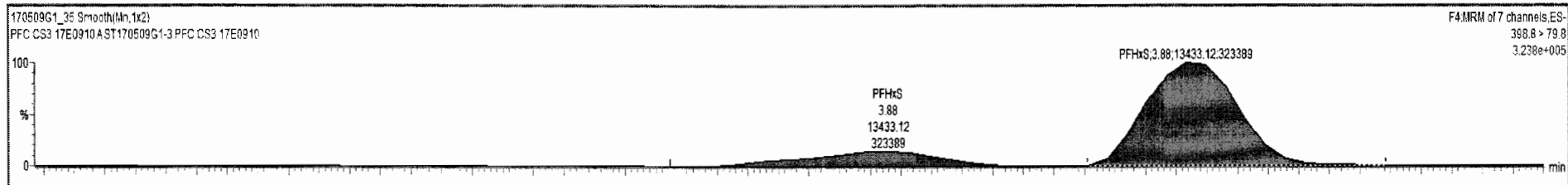


**13C2-PFOA**



170509G1\_35 - ST170509G1-3 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	Response	RRF	Wt/Vol	RT	Conc	%Rec	DL	%RSD	Coeff. Of D...
1	PFBS	298.8 > 79.7	1.75e4	32.774	3.277	1.000	2.89	11.6	116.2	0.0037159	0.9996
2	PFHpA	383 > 318.9	2.33e4	23.631	2.363	1.000	3.77	12.2	122.1	0.0000000	0.9981
3	PFHxS	388.8 > 79.8	1.34e4	24.884	2.488	1.000	3.88	10.3	103.2	0.0000000	0.9980
4	PFOA	412.8 > 369.0	1.83e4	8.795	0.879	1.000	4.17	8.98	89.8	0.0000000	0.9993
5	PFNA	462.8 > 418.8	2.55e4	29.895	2.990	1.000	4.50	9.70	97.0	0.0000000	0.9968
6	PFOS	498.7 > 79.8	3.10e3	2.814	0.281	1.000	4.57	7.58	75.8	0.2746464	0.9995
7	13C3-PFBS	302.0 > 98.8	6.69e3	5.864	0.469	1.000	2.89	13.0	103.6	0.0022198	3.87
8	13C4-PFHpA	367.2 > 321.8	1.23e4	10.792	0.863	1.000	3.77	12.6	100.8	0.0005048	4.31
9	18O2-PFHxS	403 > 102.6	6.75e3	5.914	0.473	1.000	3.68	13.5	107.6	0.0248612	4.28
10	13C2-PFOA	414.9 > 369.7	2.60e4	35.177	2.814	1.000	4.17	10.5	83.6	0.0024284	4.64
11	13C5-PFNA	468.2 > 422.9	1.07e4	11.138	0.891	1.000	4.50	12.3	98.1	0.0038672	7.68
12	13C8-PFOS	506.7 > 79.6	1.38e4	17.239	1.379	1.000	4.57	13.2	105.7	0.0044836	3.13
13	13C5-PFHxA	318 > 272.9	2.10e4	12.500	1.000	1.000	3.26	12.5	100.0	0.0052511	0.000
14	13C3-PFHxS	401.9 > 79.9	1.43e4	12.500	1.000	1.000	3.88	12.5	100.0	0.0095736	0.000
15	13C8-PFOA	421.3 > 376	9.23e3	12.500	1.000	1.000	4.17	12.5	100.0	0.0014401	0.000
16	13C9-PFNA	472.2 > 426.9	1.20e4	12.500	1.000	1.000	4.50	12.5	100.0	0.0029311	0.000
17	13C4-PFOS	503.0 > 79.9	9.98e3	12.500	1.000	1.000	4.57	12.5	100.0	0.0279436	0.000
18	Total PFBS	298.8 > 78.7	1.75e4	32.774		1.000		11.6			0.0000
19	Total PFHxS	388.8 > 79.8	1.57e4	29.947		1.000		12.0			0.0000
20	Total PFOA	412.8 > 369.0	1.84e4	8.795		1.000		8.98			0.0000
21	Total PFOS	498.7 > 79.8	4.01e3	3.638		1.000		10.0		0.2746464	0.0000



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-35.qld

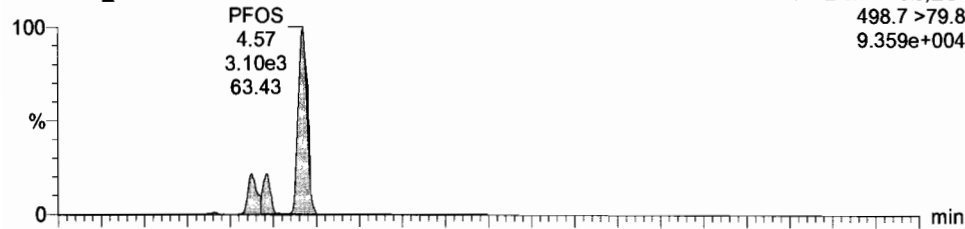
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Printed: Wednesday, May 10, 2017 09:10:21 Pacific Daylight Time

Name: 170509G1\_35, Date: 09-May-2017, Time: 17:06:19, ID: ST170509G1-3 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFOS**

170509G1\_35

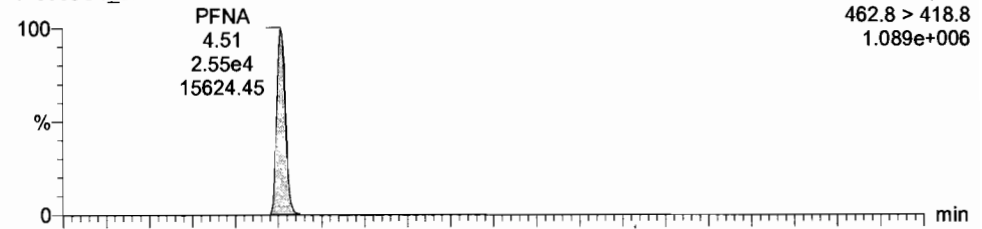
F5:MRM of 12 channels,ES-  
498.7 >79.8  
9.359e+004



**PFNA**

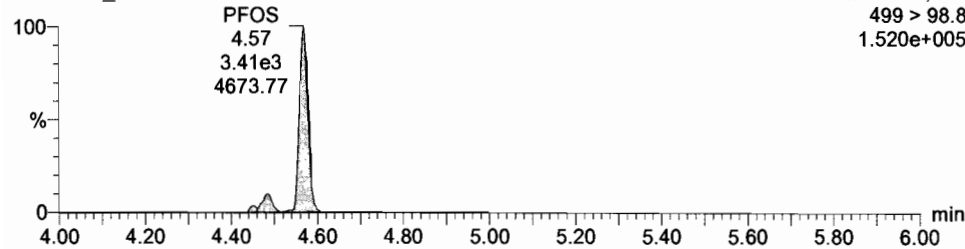
170509G1\_35

F5:MRM of 12 channels,ES-  
462.8 > 418.8  
1.089e+006



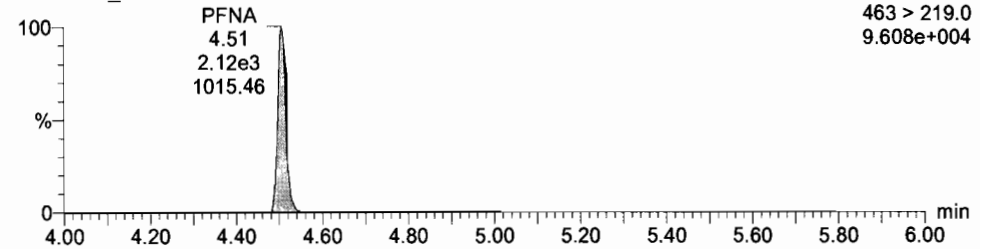
170509G1\_35

F5:MRM of 12 channels,ES-  
499 > 98.8  
1.520e+005



170509G1\_35

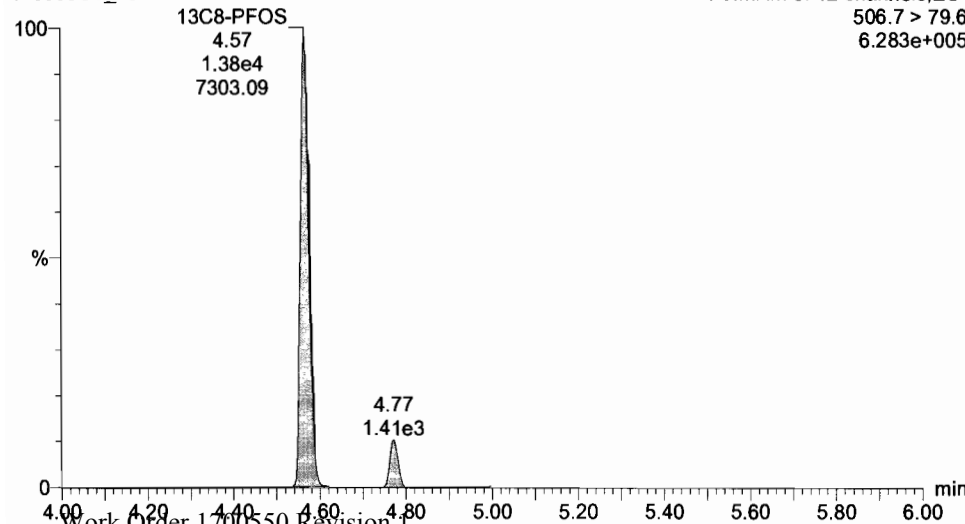
F5:MRM of 12 channels,ES-  
463 > 219.0  
9.608e+004



**13C8-PFOS**

170509G1\_35

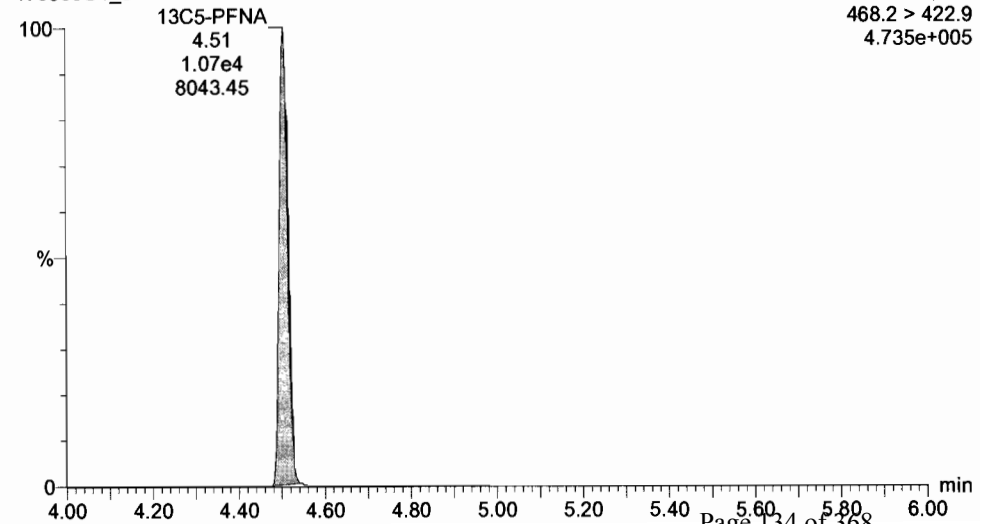
F5:MRM of 12 channels,ES-  
506.7 > 79.6  
6.283e+005



**13C5-PFNA**

170509G1\_35

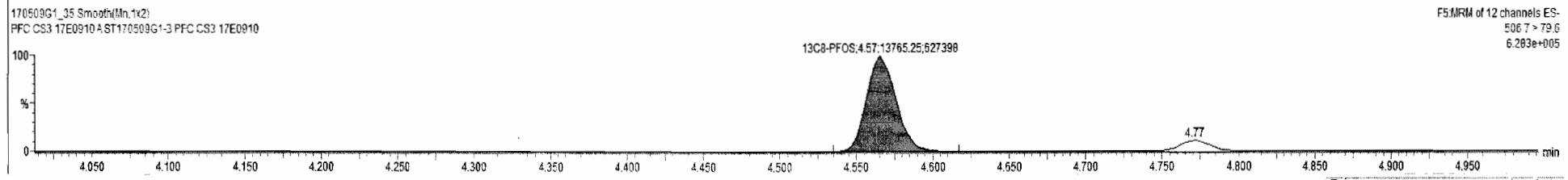
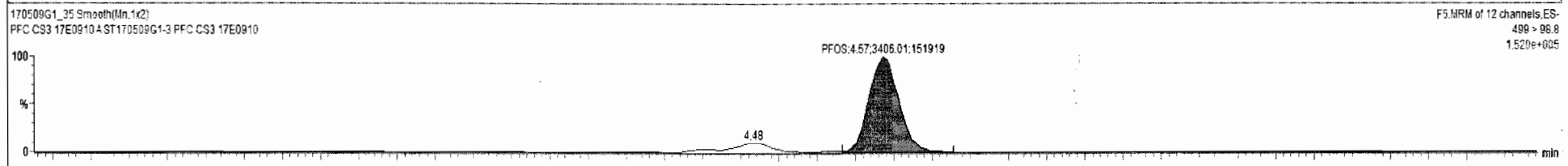
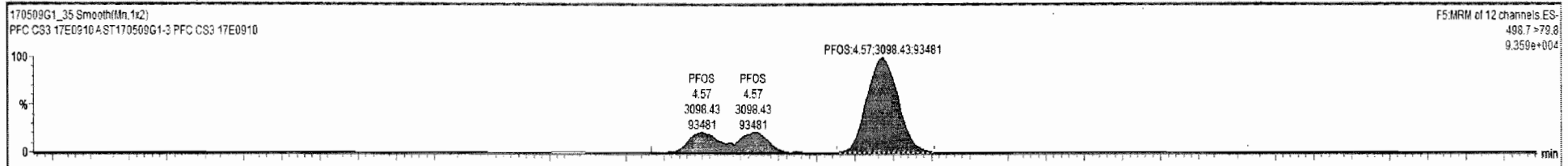
F5:MRM of 12 channels,ES-  
468.2 > 422.9  
4.735e+005





170509G1\_35 - ST170509G1.3 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	Response	RRF	Wt/Vol	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBS	298.8 > 79.7	1.75e4	32.774	3.277	1.000	2.89	11.6	115.2	0.0037159	0.9996
2	PFHpA	363 > 318.8	2.33e4	23.631	2.363	1.000	3.77	12.2	122.1	0.0000000	0.9981
3	PFHxS	398.8 > 79.8	1.34e4	24.884	2.488	1.000	3.88	10.3	103.2	0.0000000	0.9980
4	PFOA	412.8 > 369.0	1.83e4	8.795	0.879	1.000	4.17	8.96	89.8	0.0000000	0.9993
5	PFNA	462.8 > 418.8	2.55e4	29.895	2.990	1.000	4.50	9.70	97.0	0.0000000	0.9968
6	PFOS	498.7 > 79.8	3.10e3	2.814	0.281	1.000	4.57	7.58	75.8	0.2746464	0.9995
7	13C3-PFBS	302.0 > 96.8	6.69e3	5.864	0.469	1.000	2.89	13.0	103.6	0.0022198	3.87
8	13C4-PFHpA	367.2 > 321.8	1.23e4	10.792	0.863	1.000	3.77	12.6	100.8	0.0005048	4.31
9	18O2-PFHxS	403 > 102.6	6.75e3	5.914	0.473	1.000	3.88	13.5	107.6	0.0246612	4.28
10	13C2-PFOA	414.8 > 369.7	2.60e4	35.177	2.814	1.000	4.17	10.5	83.6	0.0024284	4.64
11	13C5-PFNA	468.2 > 422.9	1.07e4	11.138	0.891	1.000	4.50	12.3	98.1	0.0038672	7.68
12	13C8-PFOS	506.7 > 79.8	1.38e4	17.239	1.379	1.000	4.57	13.2	105.7	0.0044636	3.13
13	13C5-PFHxA	318 > 272.9	2.10e4	12.500	1.000	1.000	3.26	12.5	100.0	0.0052511	0.000
14	13C3-PFHxS	401.9 > 79.9	1.43e4	12.500	1.000	1.000	3.88	12.5	100.0	0.0005736	0.000
15	13C8-PFOA	421.3 > 376	9.23e3	12.500	1.000	1.000	4.17	12.5	100.0	0.0014401	0.000
16	13C9-PFNA	472.2 > 426.9	1.20e4	12.500	1.000	1.000	4.50	12.5	100.0	0.0029311	0.000
17	13C4-PFOS	503.0 > 79.9	9.98e3	12.500	1.000	1.000	4.57	12.5	100.0	0.0279436	0.000
18	Total PFBS	298.8 > 79.7	1.75e4	32.774		1.000		11.6			0.0000
19	Total PFHxS	398.8 > 79.8	1.57e4	29.047		1.000		12.0			0.0000
20	Total PFOA	412.8 > 369.0	1.84e4	8.795		1.000		8.96			0.0000
21	Total PFOS	498.7 > 79.8	4.01e3	3.638		1.000		10.0		0.2746464	0.0000



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-35.qld

Last Altered: Wednesday, May 10, 2017 08:44:52 Pacific Daylight Time

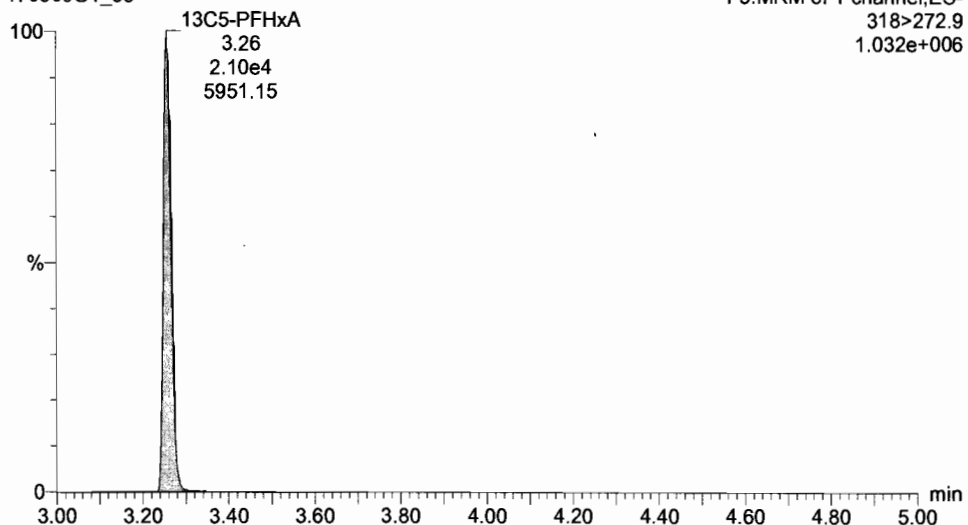
Printed: Wednesday, May 10, 2017 09:10:21 Pacific Daylight Time

Name: 170509G1\_35, Date: 09-May-2017, Time: 17:06:19, ID: ST170509G1-3 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**13C5-PFHxA**

170509G1\_35

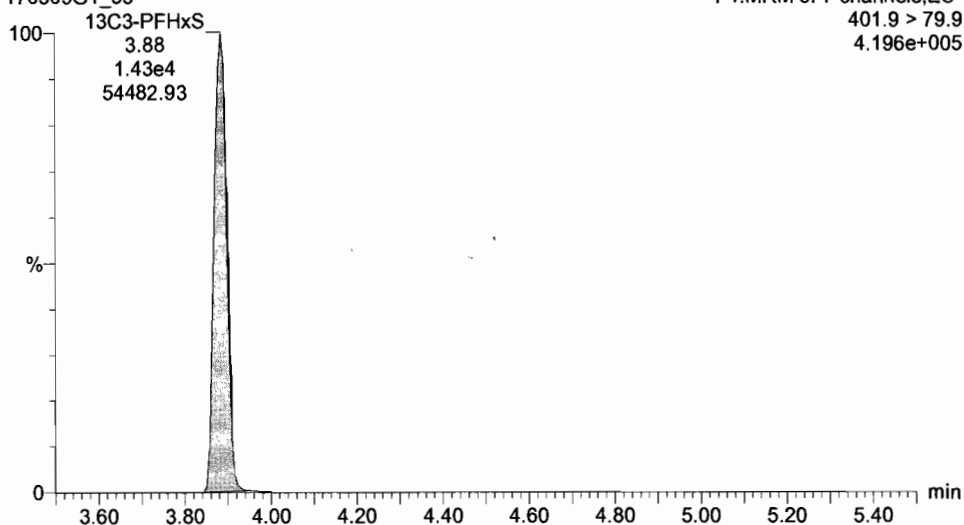
F3:MRM of 1 channel,ES-  
318>272.9  
1.032e+006



**13C3-PFHxS**

170509G1\_35

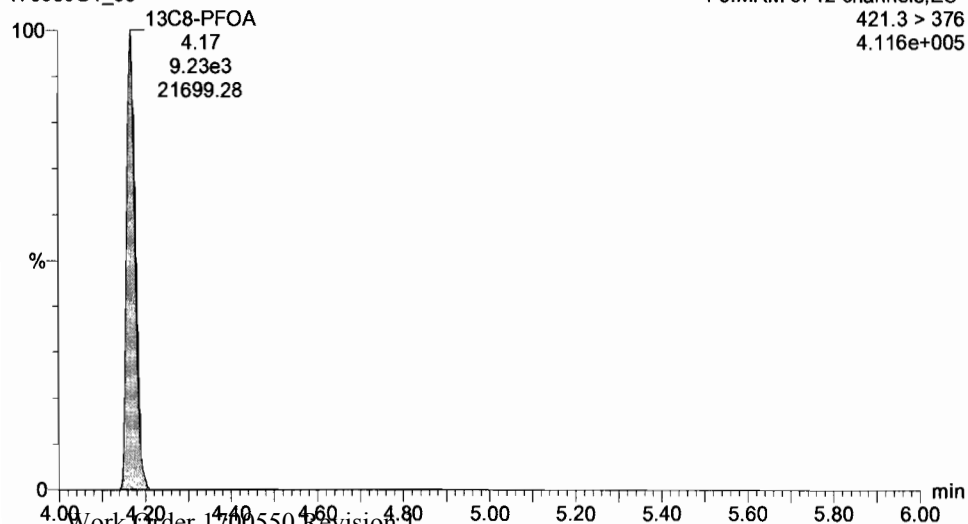
F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.196e+005



**13C8-PFOA**

170509G1\_35

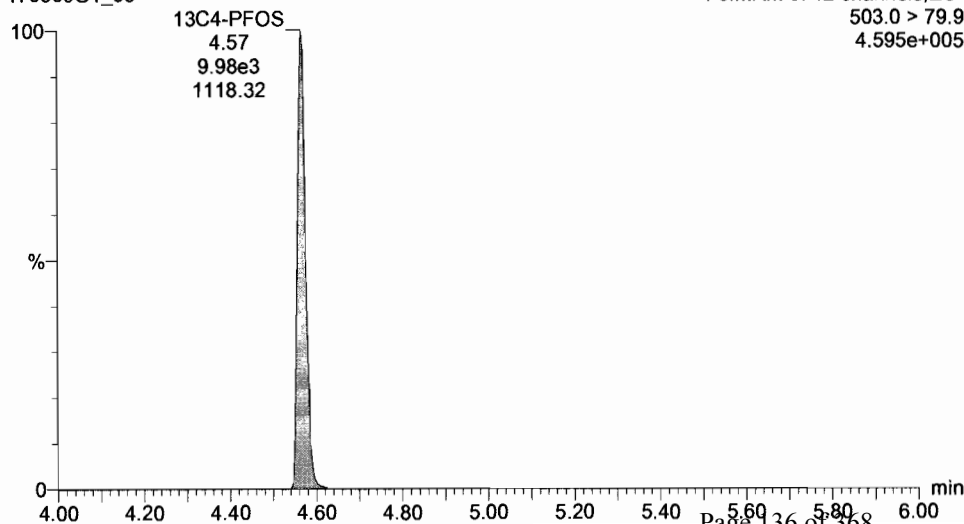
F5:MRM of 12 channels,ES-  
421.3 > 376  
4.116e+005



**13C4-PFOS**

170509G1\_35

F5:MRM of 12 channels,ES-  
503.0 > 79.9  
4.595e+005



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-35.qld

Last Altered: Wednesday, May 10, 2017 08:44:52 Pacific Daylight Time

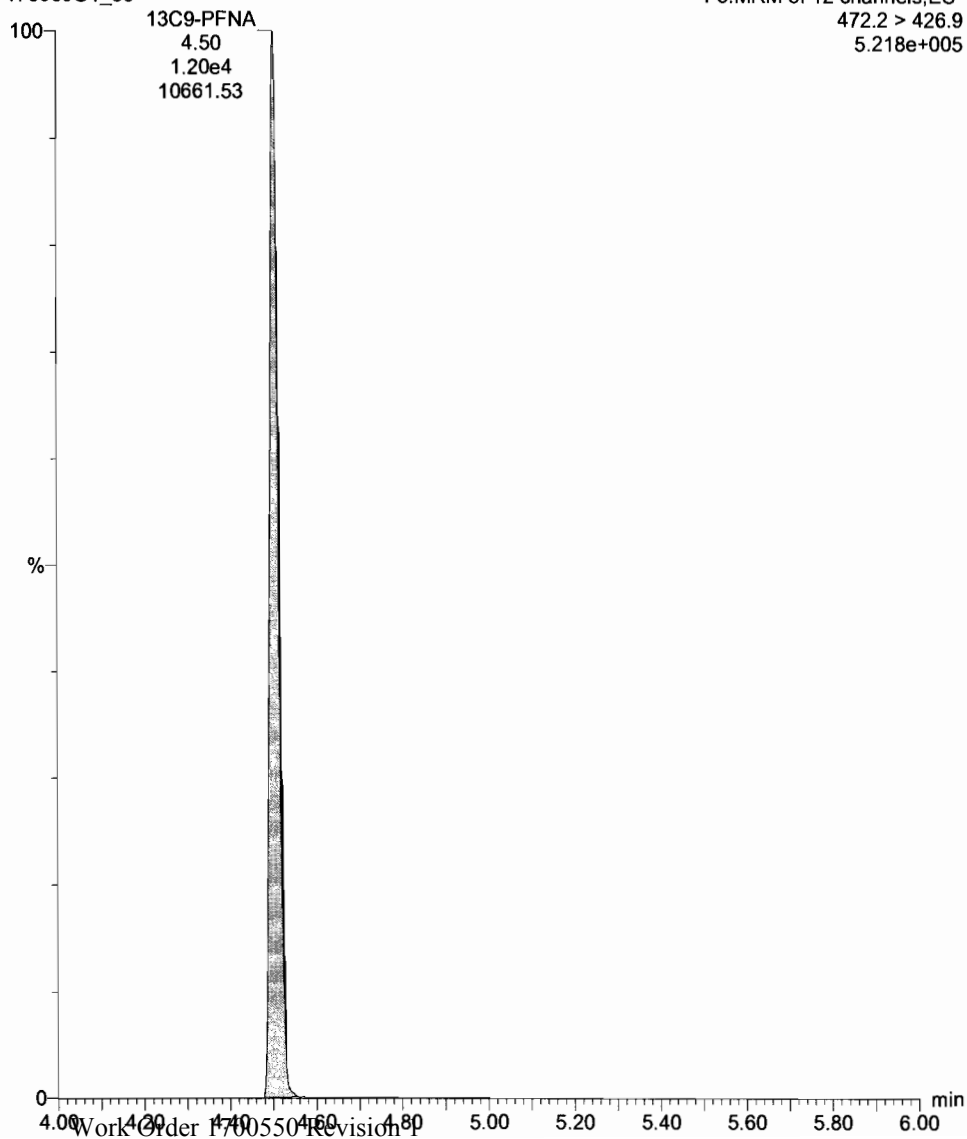
Printed: Wednesday, May 10, 2017 09:10:21 Pacific Daylight Time

Name: 170509G1\_35, Date: 09-May-2017, Time: 17:06:19, ID: ST170509G1-3 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

13C9-PFNA

170509G1\_35

F5:MRM of 12 channels,ES-  
472.2 > 426.9  
5.218e+005



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-48.qld

Last Altered: Wednesday, May 10, 2017 9:14:06 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:15:05 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_48, Date: 09-May-2017, Time: 19:50:48, ID: ST170509G1-4 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.75e4	6.91e3		1.000	2.90	11.2	112.5
2	2 PFHpA	363 > 318.9	2.34e4	1.31e4		1.000	3.77	11.6	115.7
3	3 PFHxS	398.8 > 79.8	1.47e4	7.00e3		1.000	3.89	10.9	108.8
4	4 PFOA	412.8 > 369.0	2.01e4	2.80e4		1.000	4.17	9.16	91.6
5	5 PFNA	462.8 > 418.8	2.68e4	1.06e4		1.000	4.50	10.3	103.0
6	6 PFOS	498.7 > 79.8	3.03e3	1.27e4		1.000	4.57	8.03	80.3
7	7 13C3-PFBS	302.0 > 98.8	6.91e3	1.40e4	0.453	1.000	2.89	13.7	109.3
8	8 13C4-PFHpA	367.2 > 321.8	1.31e4	1.40e4	0.857	1.000	3.77	13.6	109.0
9	9 18O2-PFHxS	403 > 102.6	7.00e3	1.40e4	0.440	1.000	3.88	14.2	113.9
10	10 13C2-PFOA	414.9 > 369.7	2.80e4	8.76e3	3.366	1.000	4.17	11.9	95.0
11	11 13C5-PFNA	468.2 > 422.9	1.06e4	1.12e4	0.909	1.000	4.50	13.0	104.1
12	12 13C8-PFOS	506.7 > 79.6	1.27e4	9.42e3	1.304	1.000	4.57	12.9	103.5
13	13 13C5-PFHxA	318 > 272.9	2.16e4	2.16e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.40e4	1.40e4	1.000	1.000	3.88	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	8.76e3	8.76e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.12e4	1.12e4	1.000	1.000	4.50	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	9.42e3	9.42e3	1.000	1.000	4.57	12.5	100.0

Handwritten notes in the table area:  
 75-125 (next to row 1)  
 100-150 (next to row 7)  
 100-150 (next to row 12)

Handwritten signature and date:  
 DM  
 5/10/17  
 Wt  
 5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: Untitled

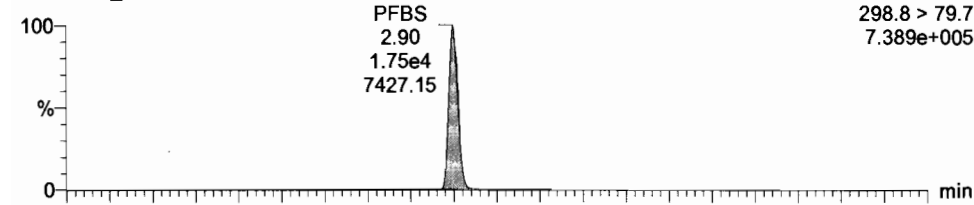
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Printed: Wednesday, May 10, 2017 9:13:45 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_48, Date: 09-May-2017, Time: 19:50:48, ID: ST170509G1-4 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

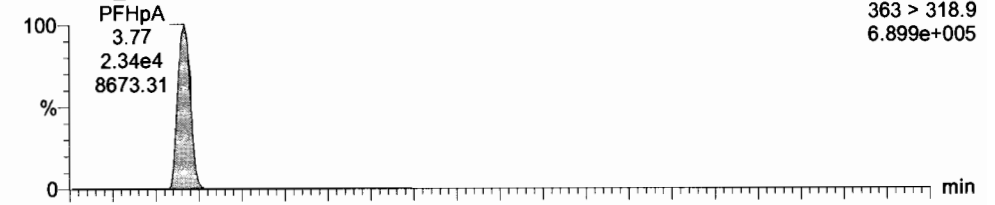
**PFBS**

170509G1\_48

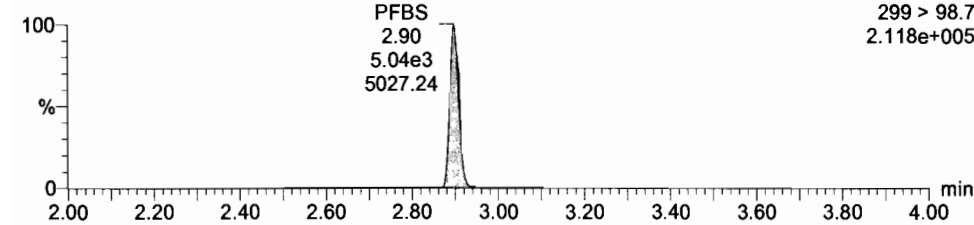


**PFHpA**

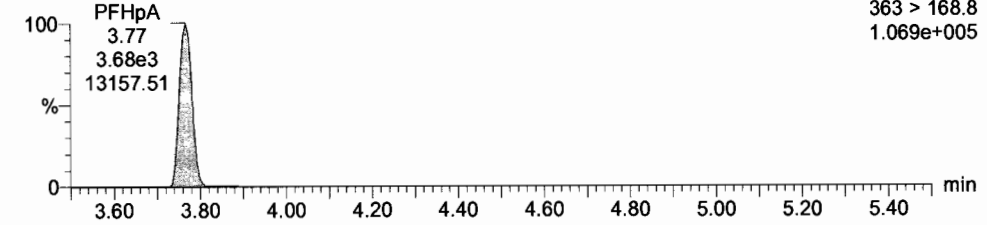
170509G1\_48



170509G1\_48

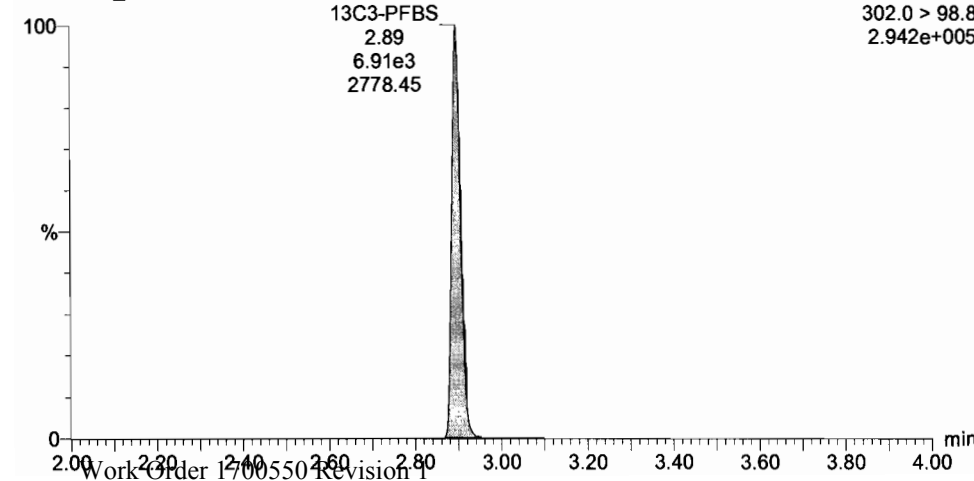


170509G1\_48



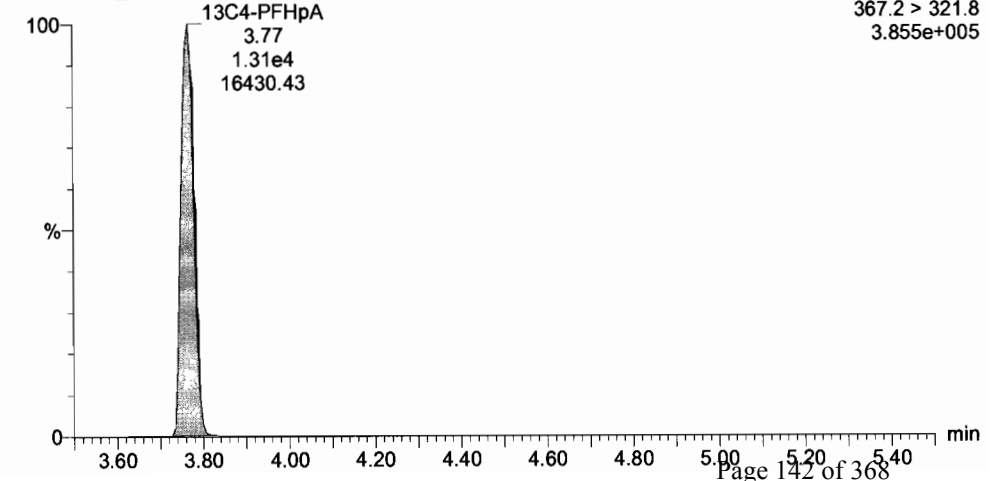
**13C3-PFBS**

170509G1\_48



**13C4-PFHpa**

170509G1\_48





Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:13:16 AM Pacific Daylight Time

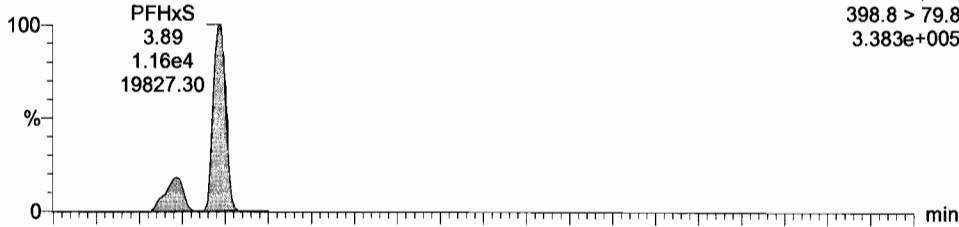
Printed: Wednesday, May 10, 2017 9:13:45 AM Pacific Daylight Time

Name: 170509G1\_48, Date: 09-May-2017, Time: 19:50:48, ID: ST170509G1-4 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFHxS**

170509G1\_48

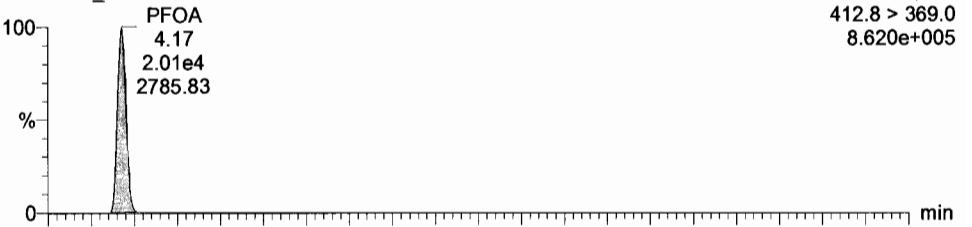
F4:MRM of 7 channels,ES-  
398.8 > 79.8  
3.383e+005



**PFOA**

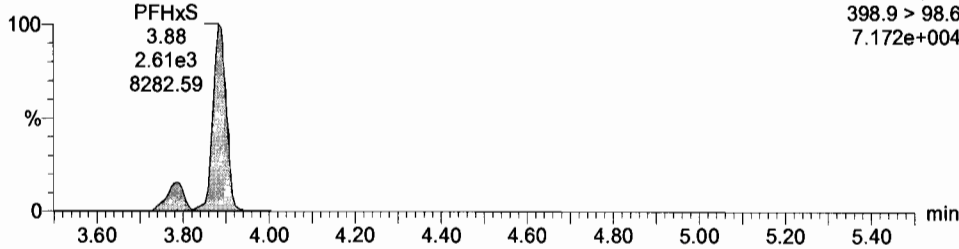
170509G1\_48

F5:MRM of 12 channels,ES-  
412.8 > 369.0  
8.620e+005



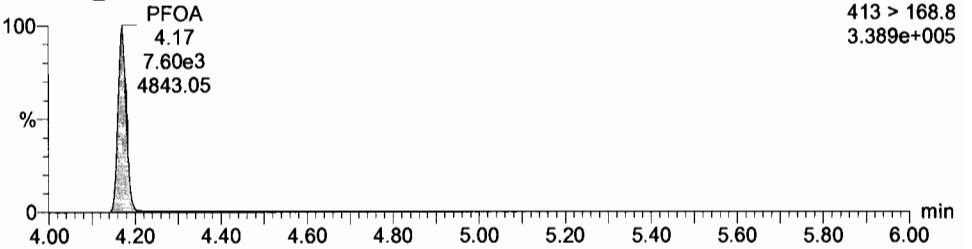
170509G1\_48

F4:MRM of 7 channels,ES-  
398.9 > 98.6  
7.172e+004



170509G1\_48

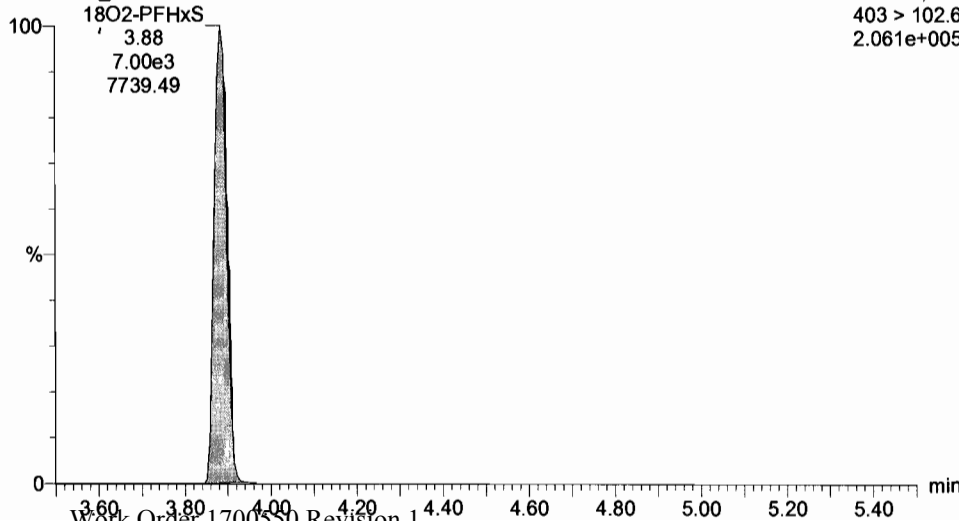
F5:MRM of 12 channels,ES-  
413 > 168.8  
3.389e+005



**18O2-PFHxS**

170509G1\_48

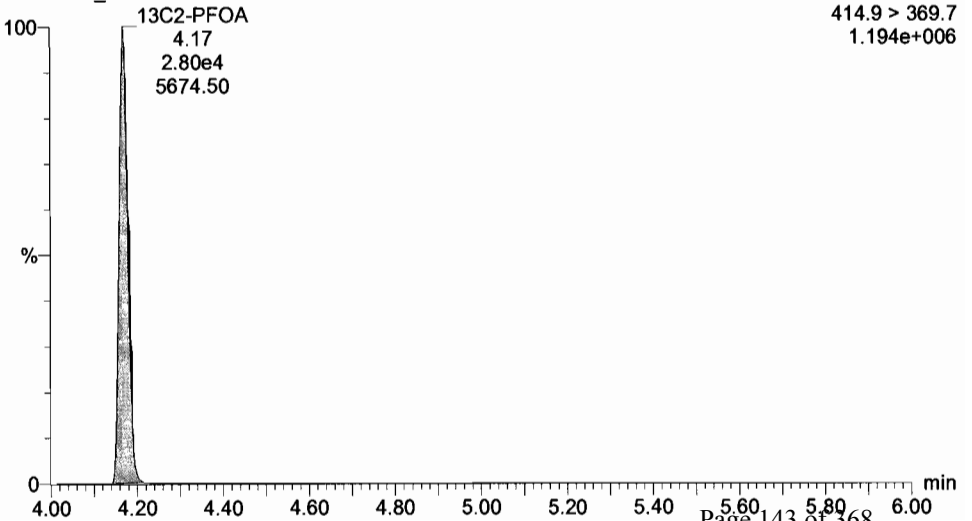
F4:MRM of 7 channels,ES-  
403 > 102.6  
2.061e+005



**13C2-PFOA**

170509G1\_48

F5:MRM of 12 channels,ES-  
414.9 > 369.7  
1.194e+006

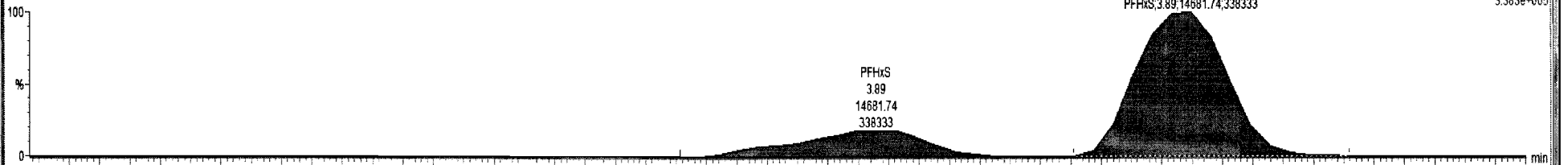


170509G1\_48 - ST170509G1-4 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	Response	RRF	WV%L	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBS	298.8 > 79.7	1.75e4	31.725	3.172	1.000	2.90	112.5	0.0037124		0.9996
2	PFHpA	363 > 316.9	2.34e4	22.395	2.239	1.000	3.77	115.7	0.0000000		0.9981
3	PFHxS	398.8 > 79.8	1.47e4	26.236	2.624	1.000	3.88	109.8	0.0000000		0.9980
4	PFDA	412.8 > 369.0	2.01e4	8.969	0.897	1.000	4.17	91.6	0.0000000		0.9993
5	PFNA	462.8 > 418.8	2.68e4	31.720	3.172	1.000	4.50	103.0	0.0000000		0.9968
6	PFOS	498.7 > 79.8	3.03e3	2.982	0.298	1.000	4.57	80.3	0.0688972		0.9995
7	13C3-PFBS	302.0 > 98.8	6.91e3	6.185	0.495	1.000	2.89	109.3	0.0179972	3.87	
8	13C4-PFHpA	367.2 > 321.8	1.31e4	11.679	0.934	1.000	3.77	109.0	0.0021041	4.31	
9	18O2-PFHxS	403 > 102.6	7.00e3	6.258	0.501	1.000	3.88	113.9	0.0046578	4.28	
10	13C2-PFDA	414.9 > 369.7	2.80e4	39.956	3.197	1.000	4.17	95.0	0.0052070	4.64	
11	13C5-PFNA	468.2 > 422.9	1.06e4	11.825	0.946	1.000	4.50	104.1	0.0017595	7.68	
12	13C8-PFOS	506.7 > 79.6	1.27e4	16.870	1.350	1.000	4.57	103.5	0.0015343	3.13	
13	13C5-PFHxA	318 > 272.9	2.16e4	12.500	1.000	1.000	3.26	100.0	0.0048598	0.000	
14	13C3-PFHxS	401.9 > 79.9	1.40e4	12.500	1.000	1.000	3.88	100.0	0.0088691	0.000	

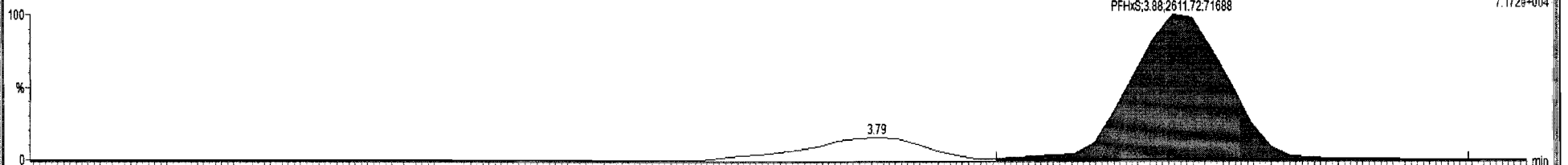
170509G1\_48 Smooth(Mn,1x2)  
PFC CS3 17E0910 AST170509G1-4 PFC CS3 17E0910

F4:MRM of 7 channels,ES-  
398.8 > 79.8  
3.383e+005



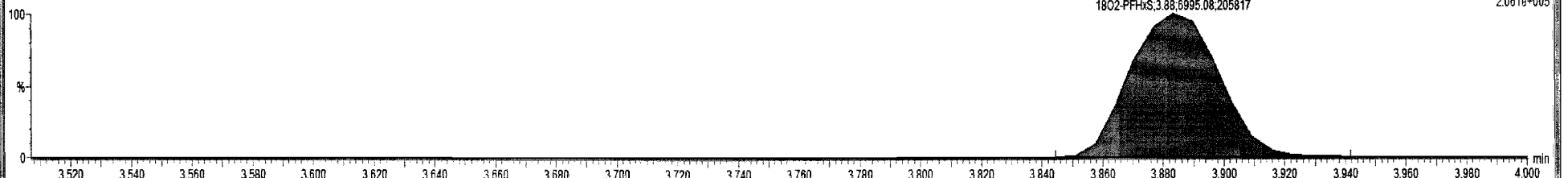
170509G1\_48 Smooth(Mn,1x2)  
PFC CS3 17E0910 AST170509G1-4 PFC CS3 17E0910

F4:MRM of 7 channels,ES-  
398.0 > 98.6  
7.172e+004



170509G1\_48 Smooth(Mn,1x2)  
PFC CS3 17E0910 AST170509G1-4 PFC CS3 17E0910

F4:MRM of 7 channels,ES-  
403 > 102.6  
2.061e+005



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:13:16 AM Pacific Daylight Time

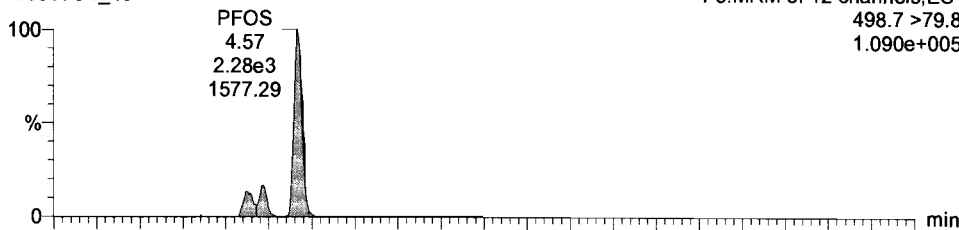
Printed: Wednesday, May 10, 2017 9:13:45 AM Pacific Daylight Time

Name: 170509G1\_48, Date: 09-May-2017, Time: 19:50:48, ID: ST170509G1-4 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFOS**

170509G1\_48

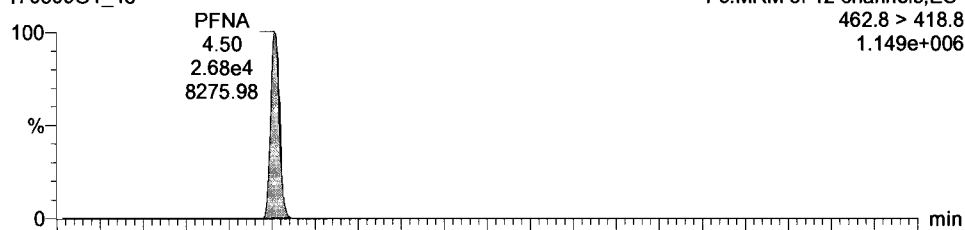
F5:MRM of 12 channels,ES-  
498.7 >79.8  
1.090e+005



**PFNA**

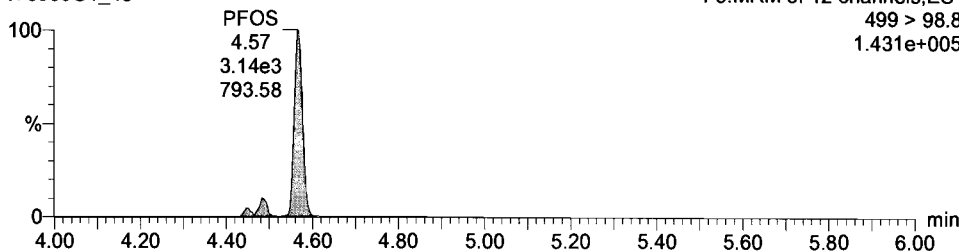
170509G1\_48

F5:MRM of 12 channels,ES-  
462.8 > 418.8  
1.149e+006



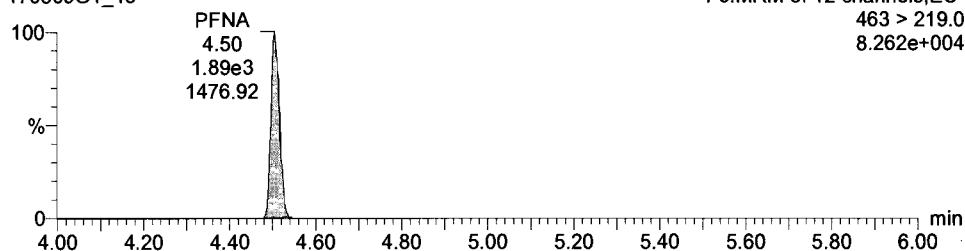
170509G1\_48

F5:MRM of 12 channels,ES-  
499 > 98.8  
1.431e+005



170509G1\_48

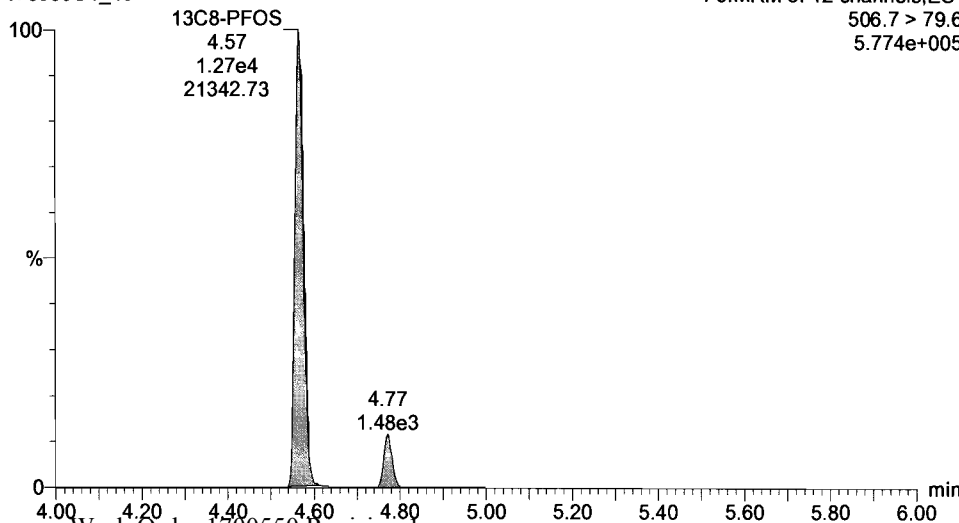
F5:MRM of 12 channels,ES-  
463 > 219.0  
8.262e+004



**13C8-PFOS**

170509G1\_48

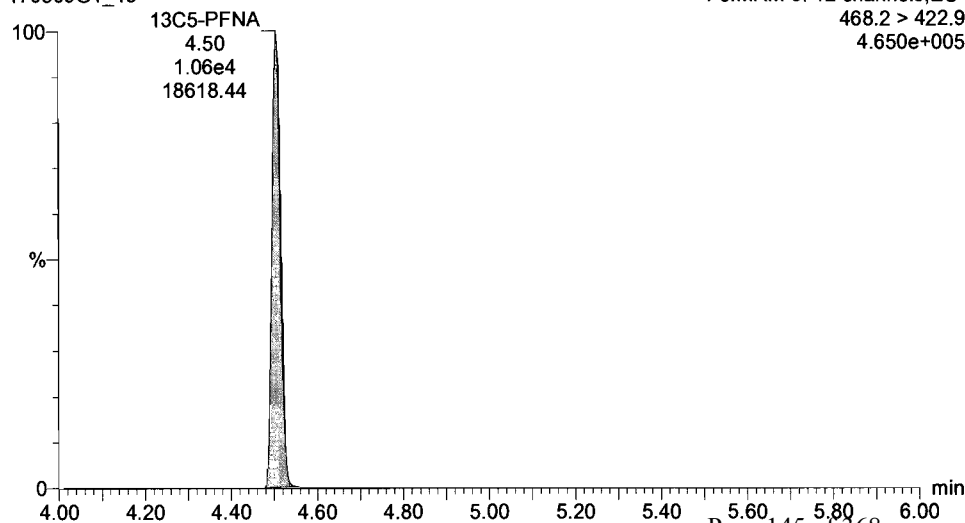
F5:MRM of 12 channels,ES-  
506.7 > 79.6  
5.774e+005

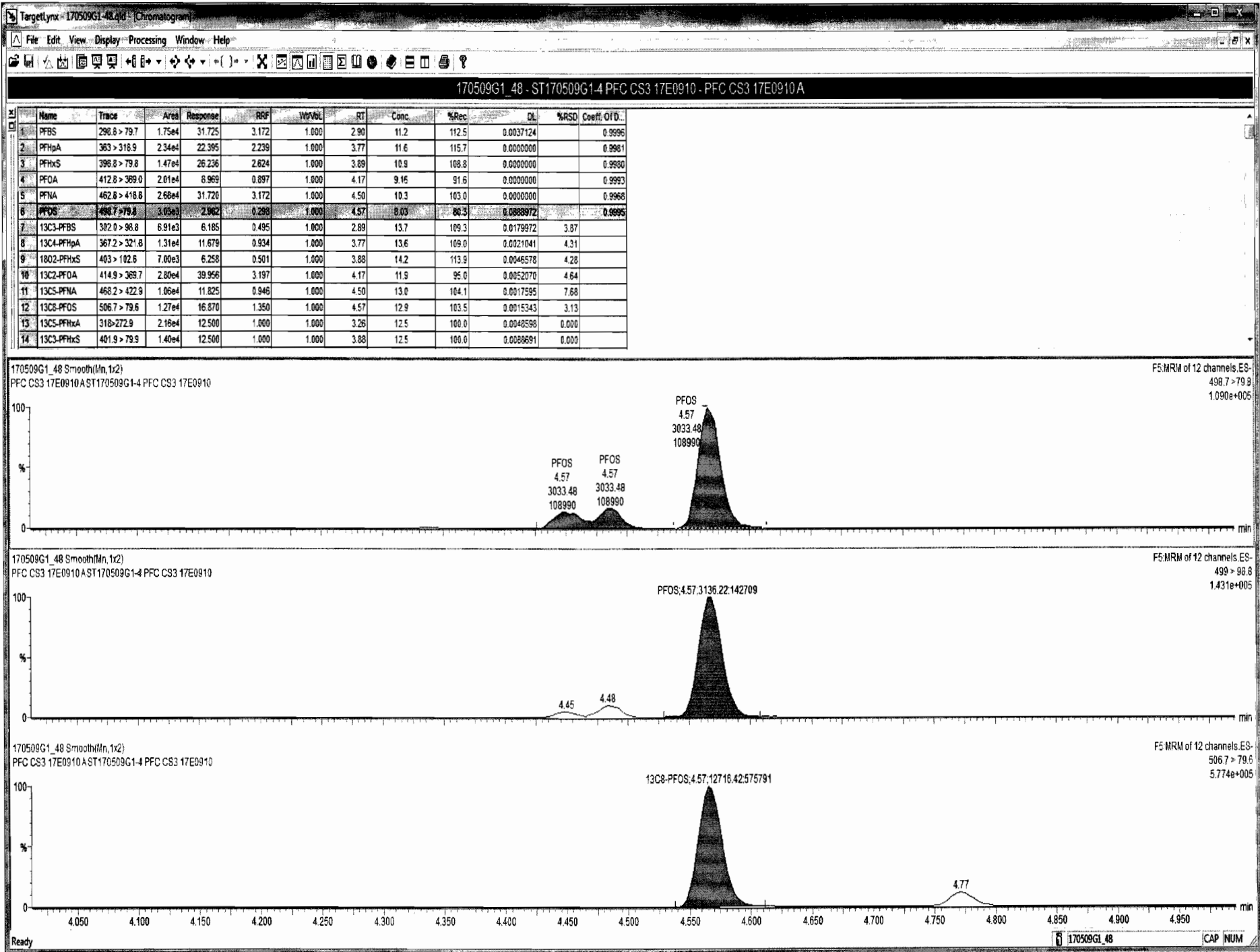


**13C5-PFNA**

170509G1\_48

F5:MRM of 12 channels,ES-  
468.2 > 422.9  
4.650e+005





Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:13:16 AM Pacific Daylight Time

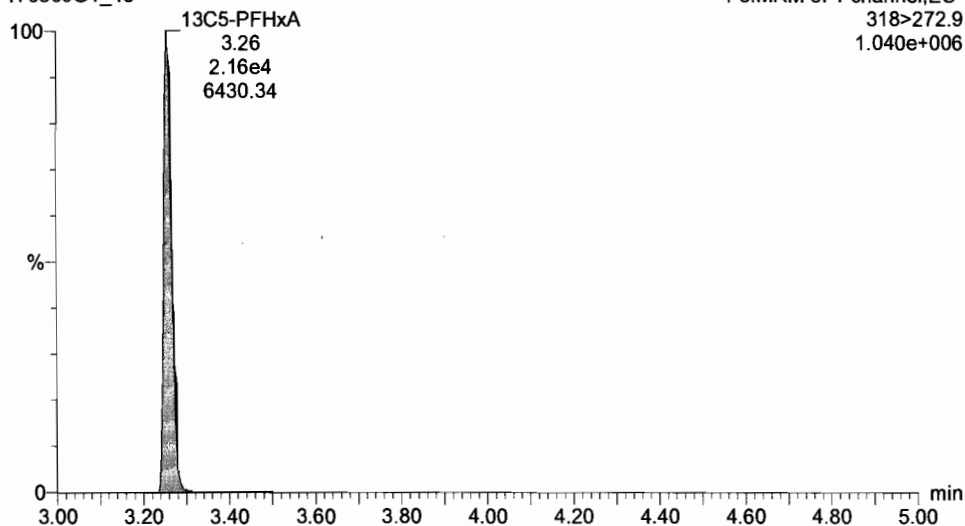
Printed: Wednesday, May 10, 2017 9:13:45 AM Pacific Daylight Time

Name: 170509G1\_48, Date: 09-May-2017, Time: 19:50:48, ID: ST170509G1-4 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**13C5-PFHxA**

170509G1\_48

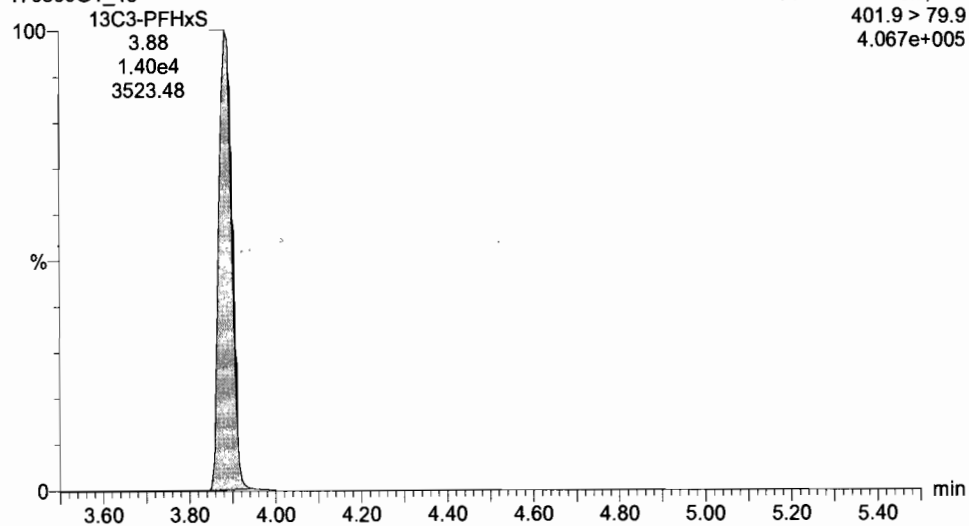
F3:MRM of 1 channel,ES-  
318>272.9  
1.040e+006



**13C3-PFHxS**

170509G1\_48

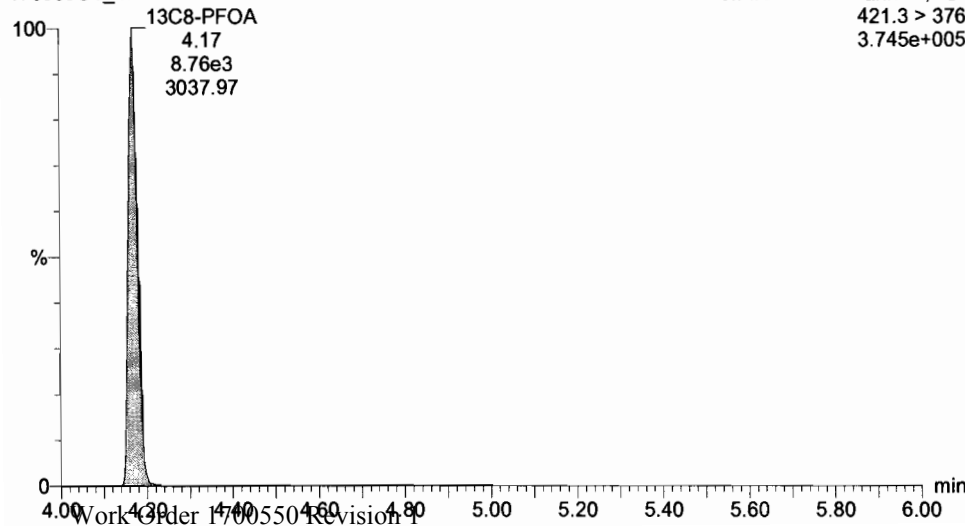
F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.067e+005



**13C8-PFOA**

170509G1\_48

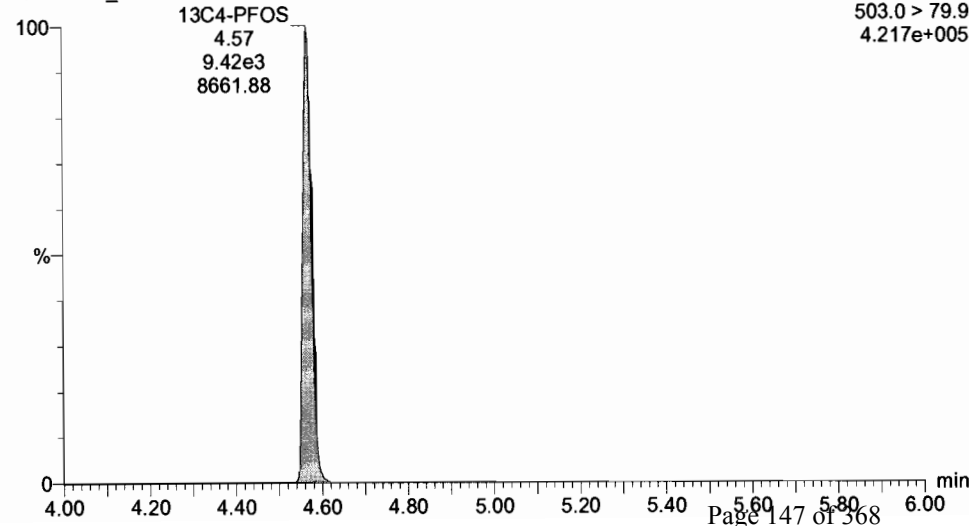
F5:MRM of 12 channels,ES-  
421.3 > 376  
3.745e+005



**13C4-PFOS**

170509G1\_48

F5:MRM of 12 channels,ES-  
503.0 > 79.9  
4.217e+005



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:13:16 AM Pacific Daylight Time

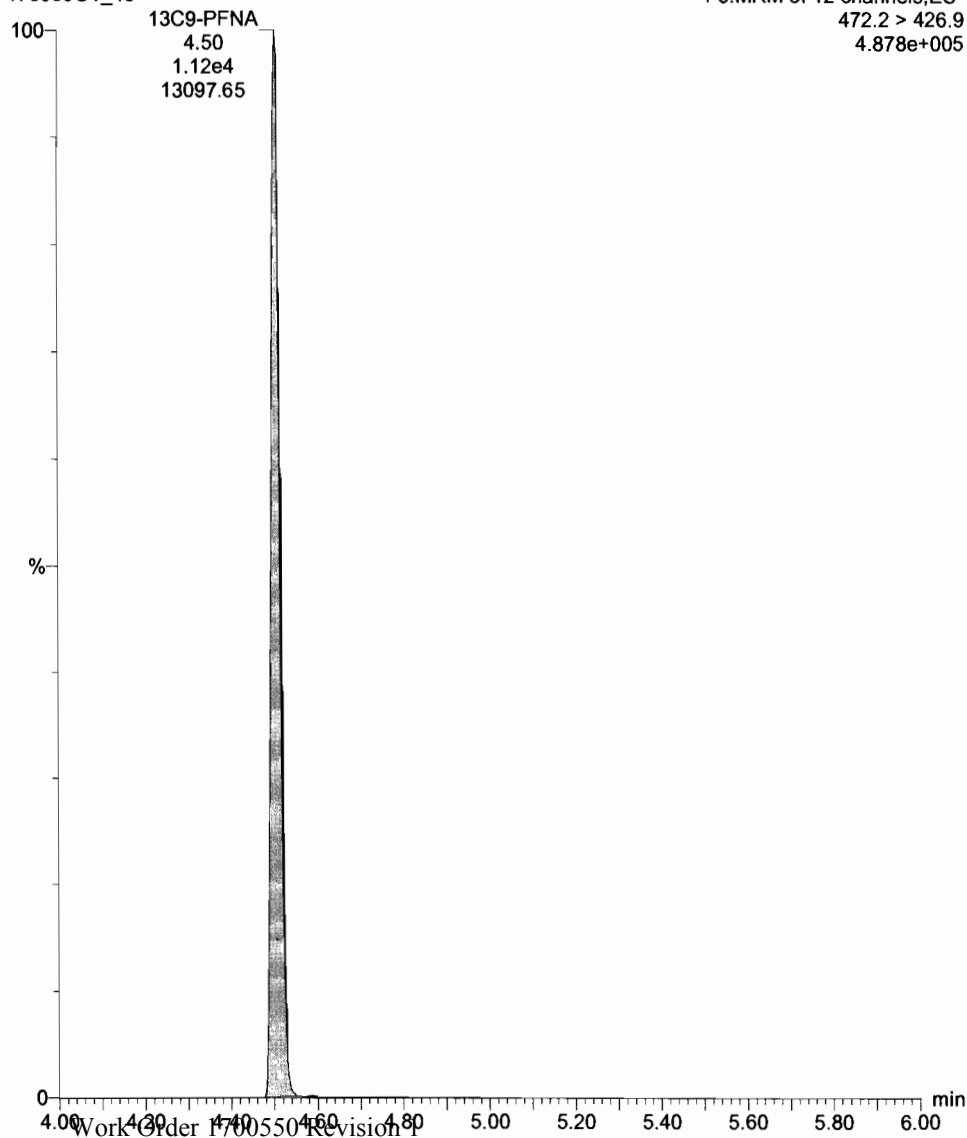
Printed: Wednesday, May 10, 2017 9:13:45 AM Pacific Daylight Time

Name: 170509G1\_48, Date: 09-May-2017, Time: 19:50:48, ID: ST170509G1-4 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

13C9-PFNA

170509G1\_48

F5:MRM of 12 channels,ES-  
472.2 > 426.9  
4.878e+005



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-61.qld

Last Altered: Wednesday, May 10, 2017 9:16:07 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:18:08 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_61, Date: 09-May-2017, Time: 22:35:02, ID: ST170509G1-5 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.75e4	7.11e3		1.000	2.90	10.9	108.8
2	2 PFHpA	363 > 318.9	2.36e4	1.33e4		1.000	3.77	11.4	114.4
3	3 PFHxS	398.8 > 79.8	1.39e4	7.07e3		1.000	3.89	10.2	102.2
4	4 PFOA	412.8 > 369.0	1.95e4	2.78e4		1.000	4.17	8.93	89.3
5	5 PFNA	462.8 > 418.8	2.58e4	1.09e4		1.000	4.50	9.61	96.1
6	6 PFOS	498.7 > 79.8	2.74e3	1.17e4		1.000	4.57	7.86	78.6
7	7 13C3-PFBS	302.0 > 98.8	7.11e3	1.45e4	0.453	1.000	2.90	13.6	108.4
8	8 13C4-PFHpA	367.2 > 321.8	1.33e4	1.45e4	0.857	1.000	3.77	13.4	107.1
9	9 18O2-PFHxS	403 > 102.6	7.07e3	1.45e4	0.440	1.000	3.88	13.9	111.0
10	10 13C2-PFOA	414.9 > 369.7	2.78e4	8.52e3	3.366	1.000	4.17	12.1	97.0
11	11 13C5-PFNA	468.2 > 422.9	1.09e4	1.08e4	0.909	1.000	4.50	13.9	110.9
12	12 13C8-PFOS	506.7 > 79.6	1.17e4	8.80e3	1.304	1.000	4.57	12.8	102.2
13	13 13C5-PFHxA	318 > 272.9	2.18e4	2.18e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.45e4	1.45e4	1.000	1.000	3.88	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	8.52e3	8.52e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.08e4	1.08e4	1.000	1.000	4.50	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	8.80e3	8.80e3	1.000	1.000	4.57	12.5	100.0

Handwritten notes in the table area:  
 25-125  
 5/10/17  
 60% - 12  
 50-100  
 80-150

Handwritten signatures and dates:  
 DM  
 5/10/17  
 W  
 5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work Order 170509-30 Review	1700548-15 15 0.24597	09-May-17	16:15:34



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

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Last Altered: Wednesday, May 10, 2017 9:15:18 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:15:29 AM Pacific Daylight Time

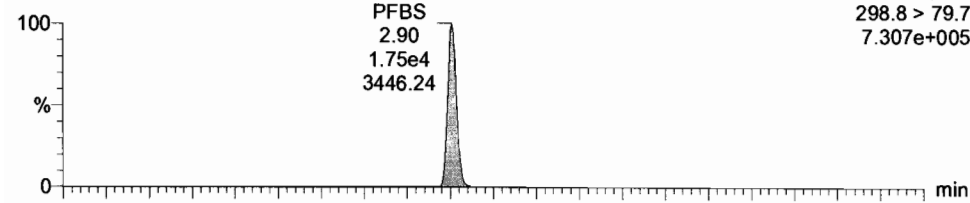
Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_61, Date: 09-May-2017, Time: 22:35:02, ID: ST170509G1-5 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

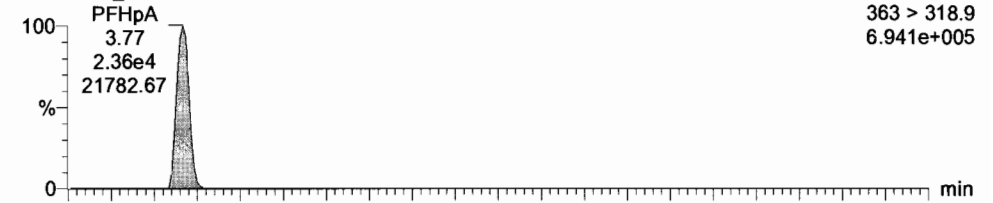
**PFBS**

170509G1\_61

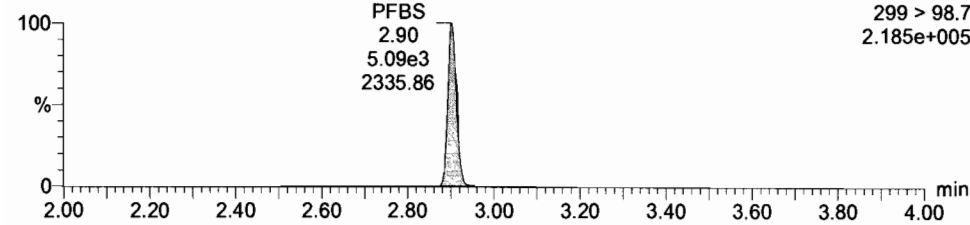


**PFHpA**

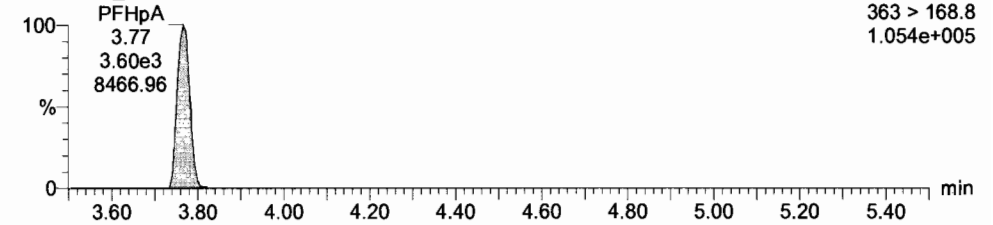
170509G1\_61



170509G1\_61

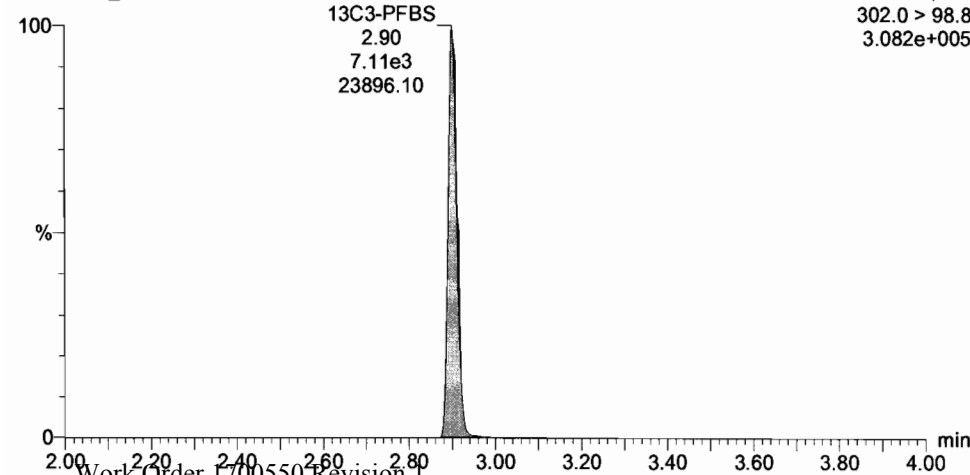


170509G1\_61



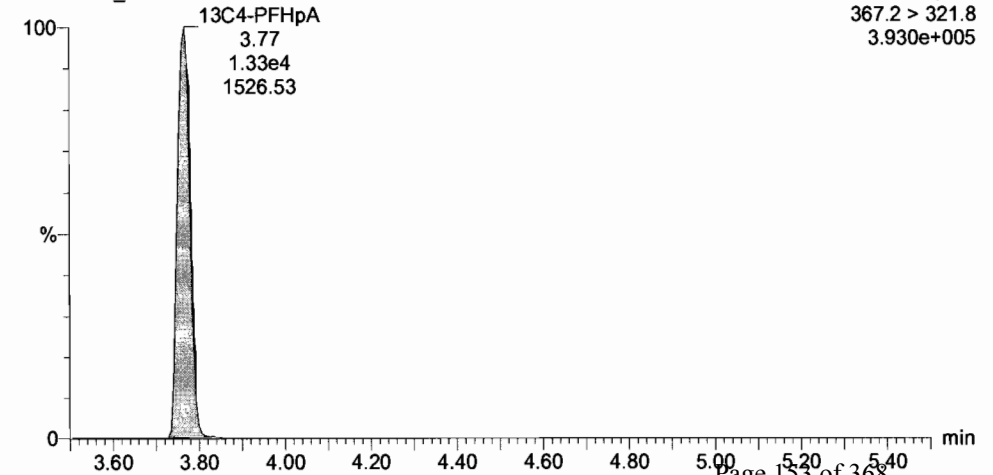
**13C3-PFBS**

170509G1\_61



**13C4-PFHpA**

170509G1\_61



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:15:18 AM Pacific Daylight Time

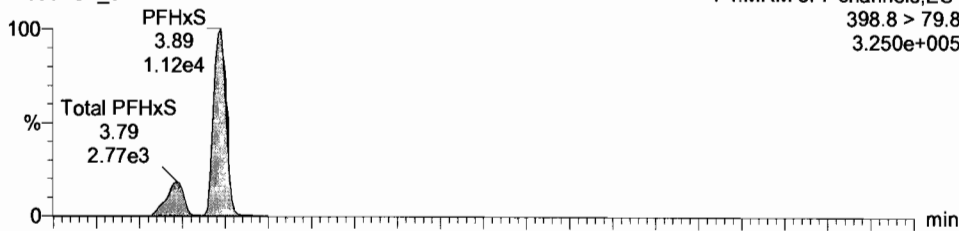
Printed: Wednesday, May 10, 2017 9:15:29 AM Pacific Daylight Time

Name: 170509G1\_61, Date: 09-May-2017, Time: 22:35:02, ID: ST170509G1-5 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFHxS**

170509G1\_61

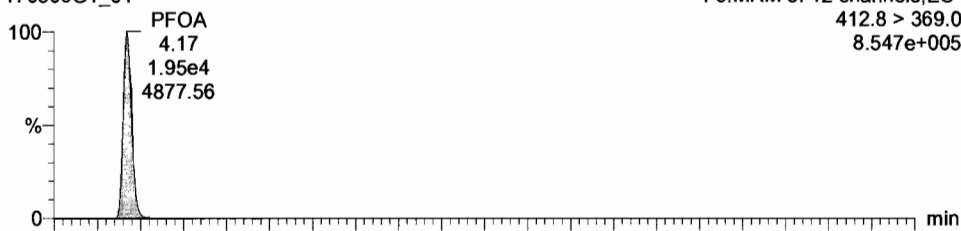
F4:MRM of 7 channels,ES-  
398.8 > 79.8  
3.250e+005



**PFOA**

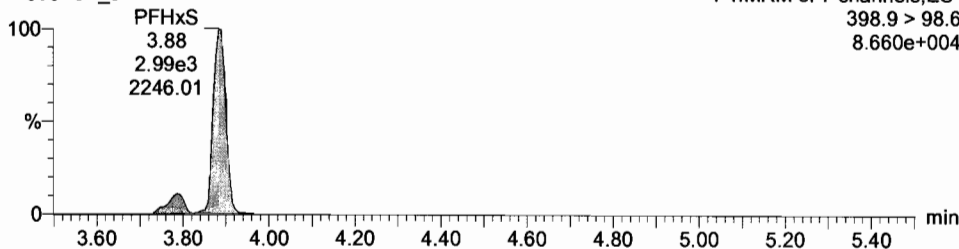
170509G1\_61

F5:MRM of 12 channels,ES-  
412.8 > 369.0  
8.547e+005



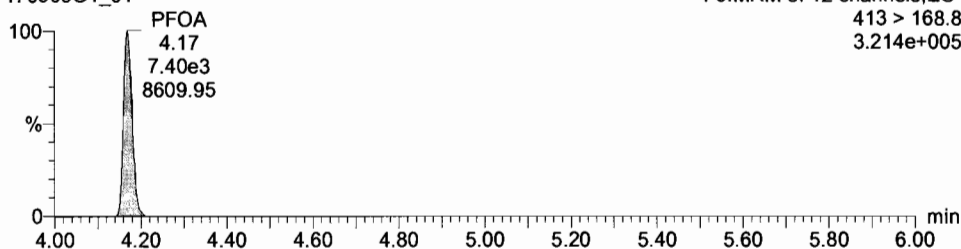
170509G1\_61

F4:MRM of 7 channels,ES-  
398.9 > 98.6  
8.660e+004



170509G1\_61

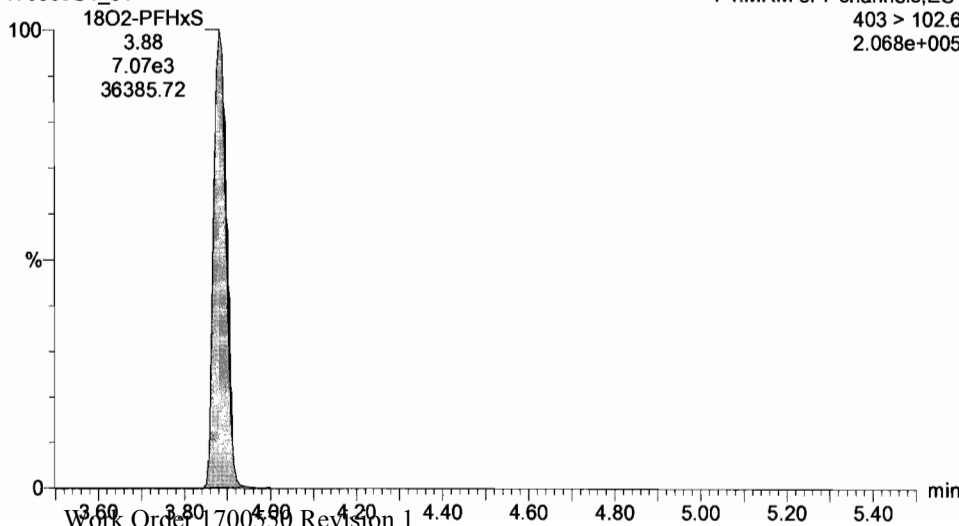
F5:MRM of 12 channels,ES-  
413 > 168.8  
3.214e+005



**18O2-PFHxS**

170509G1\_61

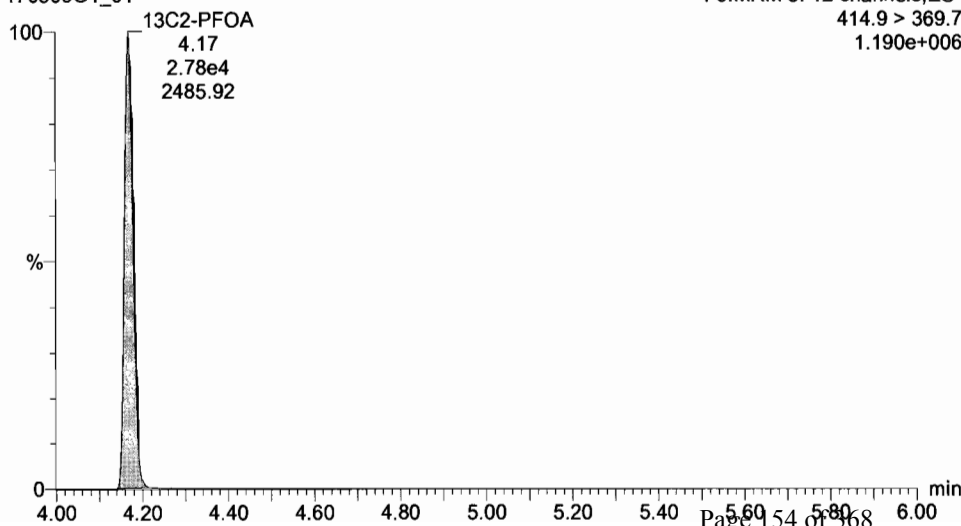
F4:MRM of 7 channels,ES-  
403 > 102.6  
2.068e+005

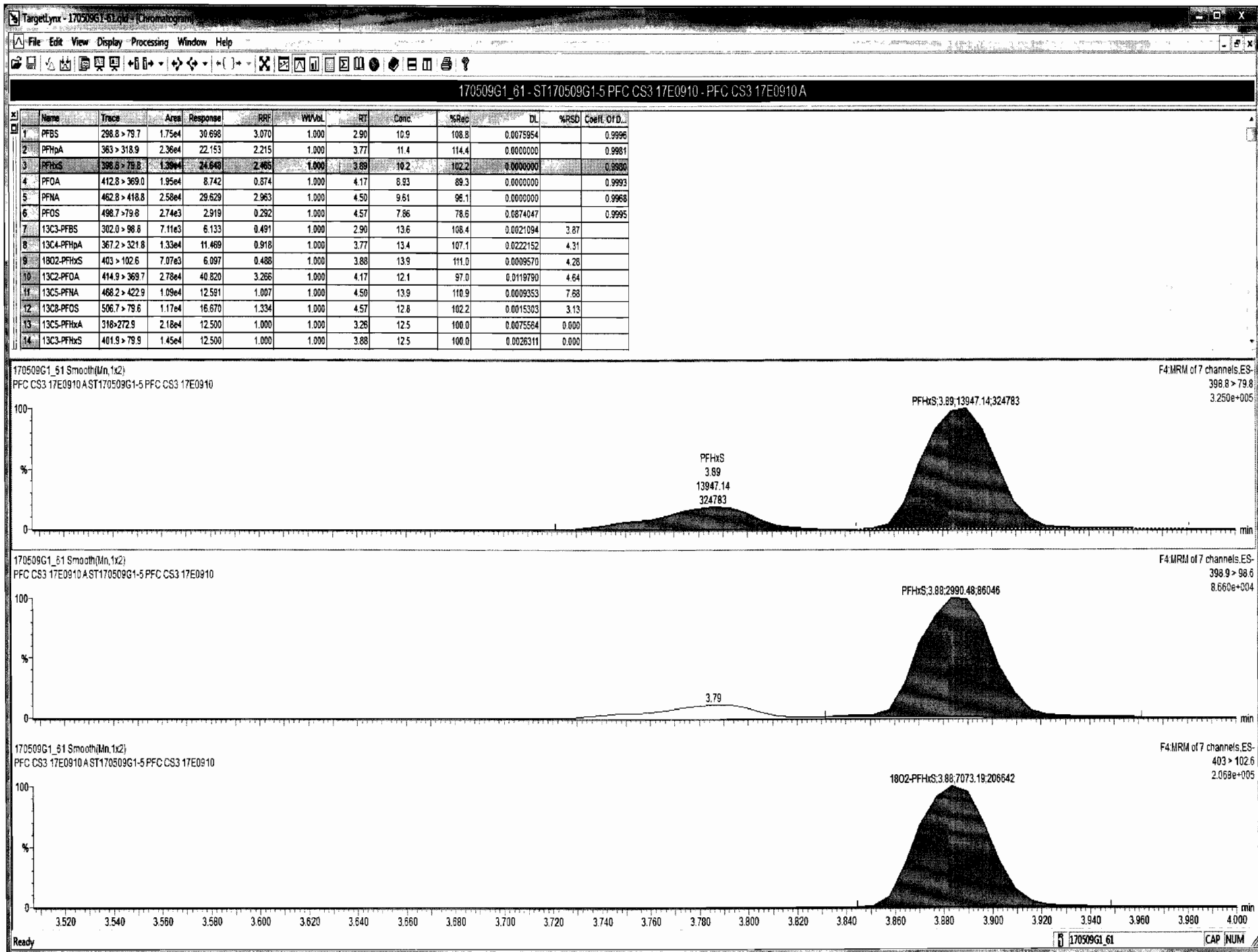


**13C2-PFOA**

170509G1\_61

F5:MRM of 12 channels,ES-  
414.9 > 369.7  
1.190e+006





Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:15:18 AM Pacific Daylight Time

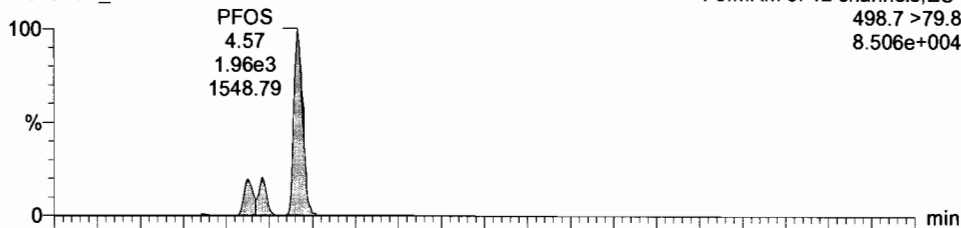
Printed: Wednesday, May 10, 2017 9:15:29 AM Pacific Daylight Time

Name: 170509G1\_61, Date: 09-May-2017, Time: 22:35:02, ID: ST170509G1-5 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFOS**

170509G1\_61

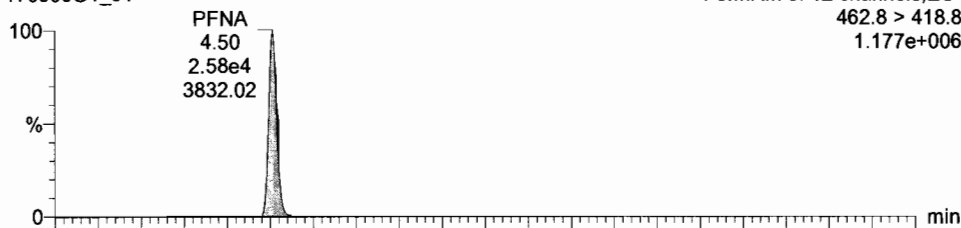
F5:MRM of 12 channels,ES-  
498.7 > 79.8  
8.506e+004



**PFNA**

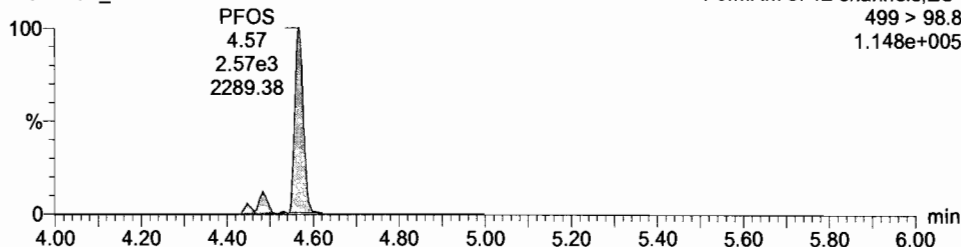
170509G1\_61

F5:MRM of 12 channels,ES-  
462.8 > 418.8  
1.177e+006



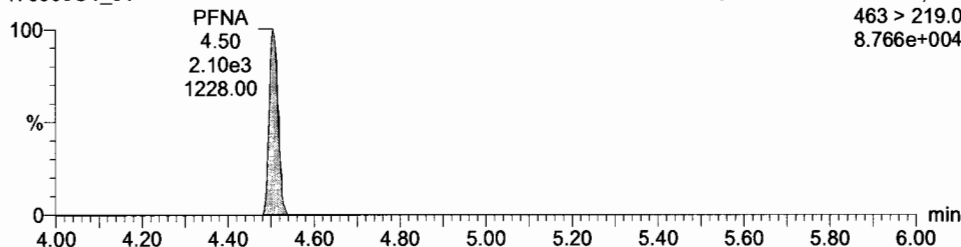
170509G1\_61

F5:MRM of 12 channels,ES-  
499 > 98.8  
1.148e+005



170509G1\_61

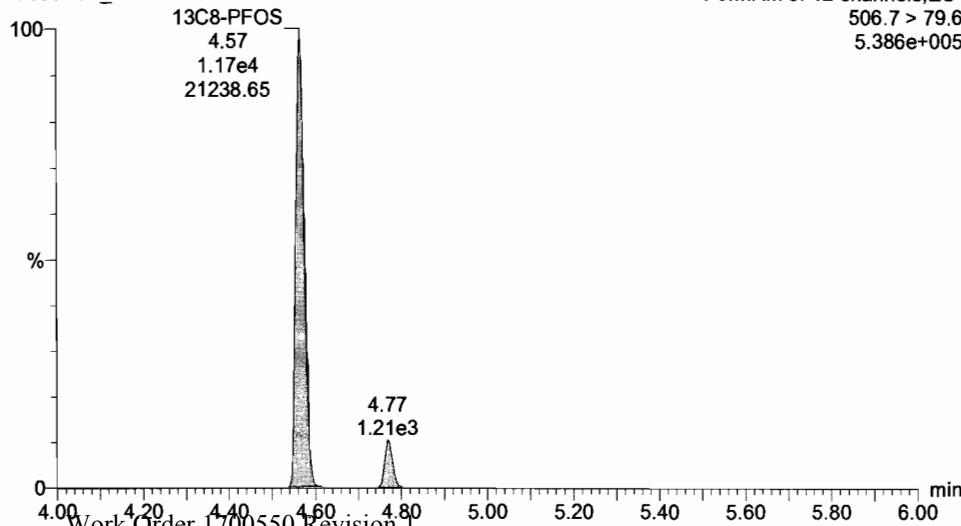
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463 > 219.0  
8.766e+004



**13C8-PFOS**

170509G1\_61

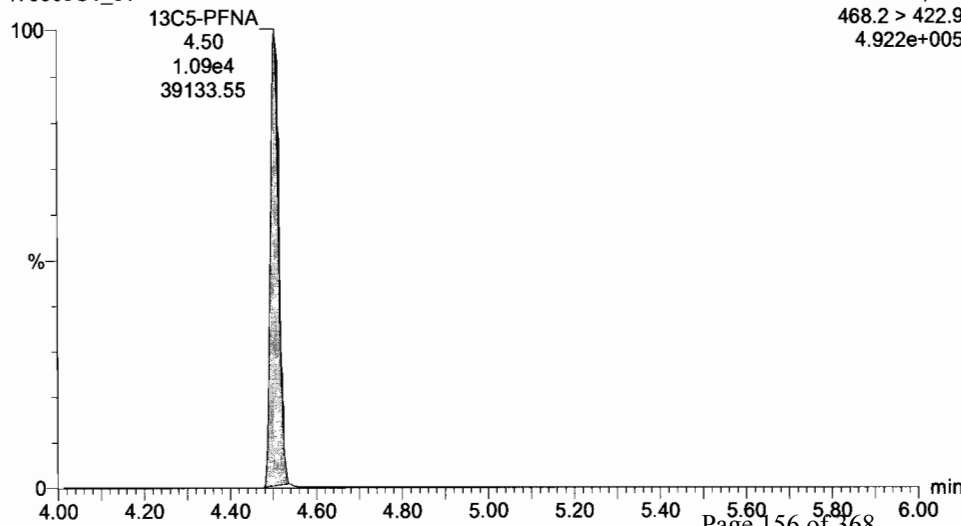
F5:MRM of 12 channels,ES-  
506.7 > 79.6  
5.386e+005



**13C5-PFNA**

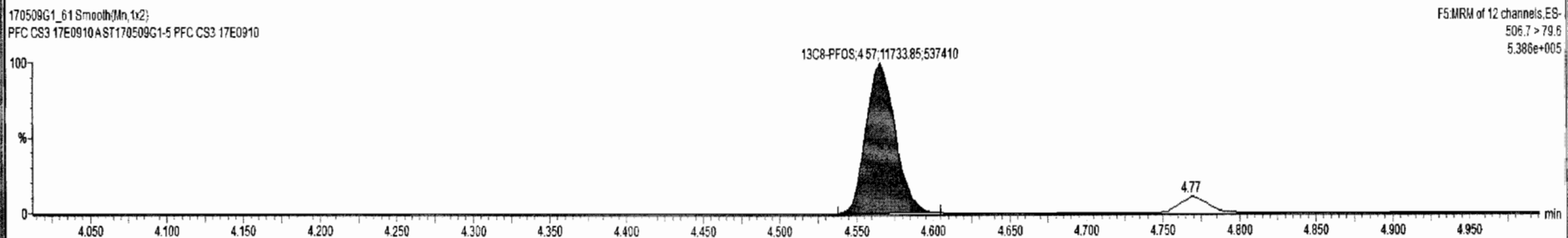
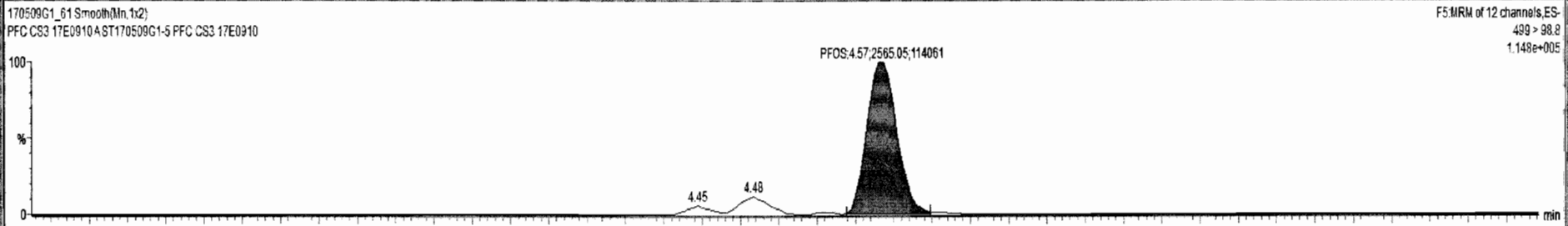
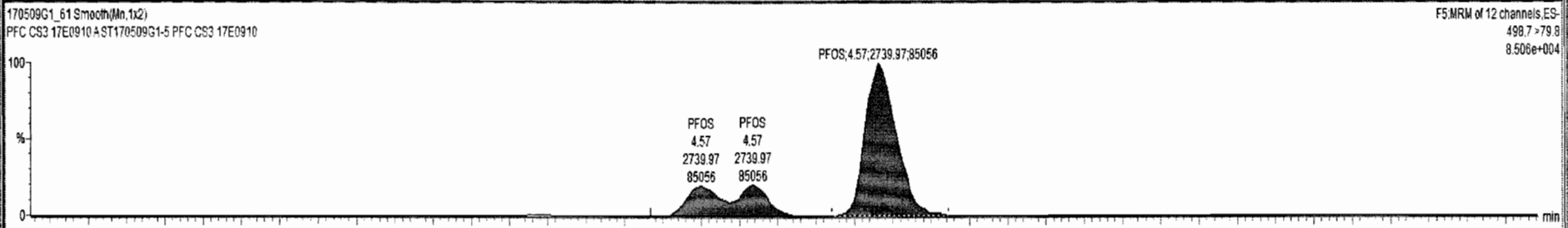
170509G1\_61

F5:MRM of 12 channels,ES-  
468.2 > 422.9  
4.922e+005



170509G1\_61 - ST170509G1-5 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	Response	RRF	WtVol	RT	Conc	%Rec	DL	%RSD	Coeff. Of D.
1	PFBS	298.8 > 79.7	1.75e4	30.698	3.070	1.000	2.90	10.9	108.8	0.0075954	0.9996
2	PFHpA	363 > 318.9	2.36e4	22.153	2.215	1.000	3.77	11.4	114.4	0.0000000	0.9981
3	PFHxS	389.8 > 75.8	1.39e4	24.648	2.465	1.000	3.89	10.2	102.2	0.0000000	0.9980
4	PFOA	412.8 > 369.0	1.95e4	8.742	0.874	1.000	4.17	8.93	89.3	0.0000000	0.9993
5	PFNA	462.8 > 418.8	2.58e4	29.629	2.963	1.000	4.50	9.61	96.1	0.0000000	0.9968
6	PFOS	498.7 > 79.8	2.74e3	2.919	0.292	1.000	4.57	7.86	78.6	0.0874047	0.9985
7	13C3-PFBS	302.0 > 98.8	7.11e3	6.133	0.491	1.000	2.90	13.6	108.4	0.0021094	3.87
8	13C4-PFHpA	367.2 > 321.8	1.33e4	11.469	0.918	1.000	3.77	13.4	107.1	0.0222152	4.31
9	18O2-PFHxS	403 > 102.6	7.07e3	6.097	0.488	1.000	3.88	13.9	111.0	0.0009570	4.28
10	13C2-PFOA	414.9 > 369.7	2.78e4	48.820	3.266	1.000	4.17	12.1	97.0	0.0119790	4.64
11	13C5-PFNA	468.2 > 422.9	1.09e4	12.591	1.007	1.000	4.50	13.9	110.9	0.0009353	7.68
12	13C8-PFOS	506.7 > 79.6	1.17e4	16.670	1.334	1.000	4.57	12.8	102.2	0.0015303	3.13
13	13C3-PFHxS	318 > 272.9	2.18e4	12.500	1.000	1.000	3.26	12.5	100.0	0.0075584	0.000
14	13C3-PFHxS	401.9 > 79.9	1.45e4	12.500	1.000	1.000	3.88	12.5	100.0	0.0026311	0.000



Dataset: Untitled

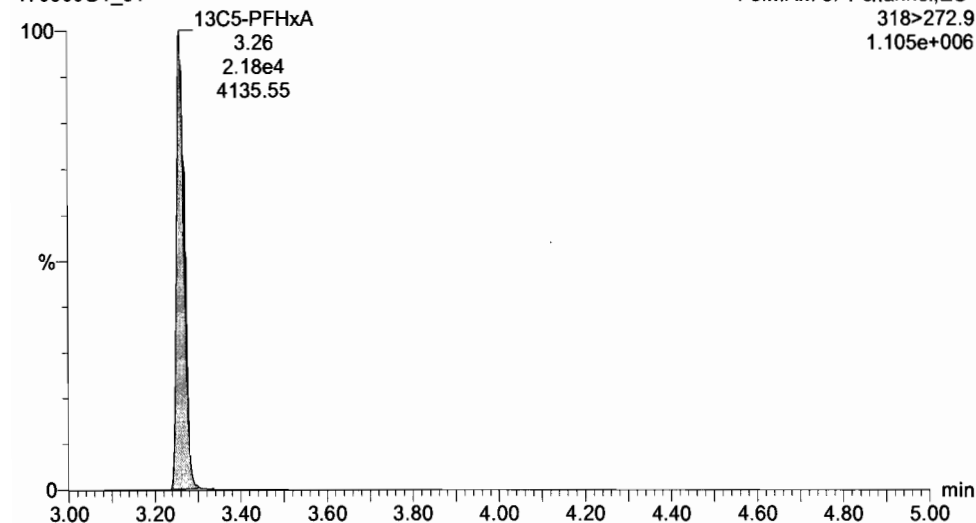
Last Altered: Wednesday, May 10, 2017 9:15:18 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:15:29 AM Pacific Daylight Time

Name: 170509G1\_61, Date: 09-May-2017, Time: 22:35:02, ID: ST170509G1-5 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

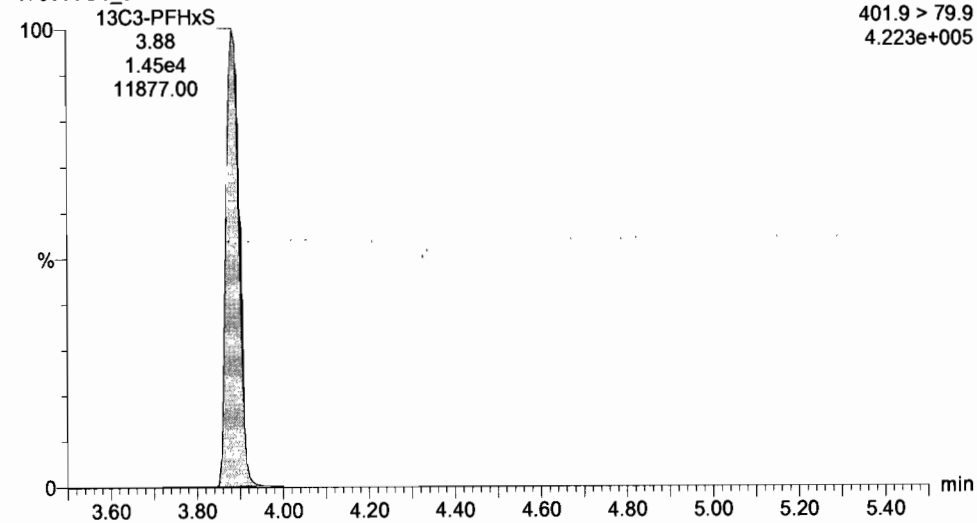
**13C5-PFHxA**

170509G1\_61



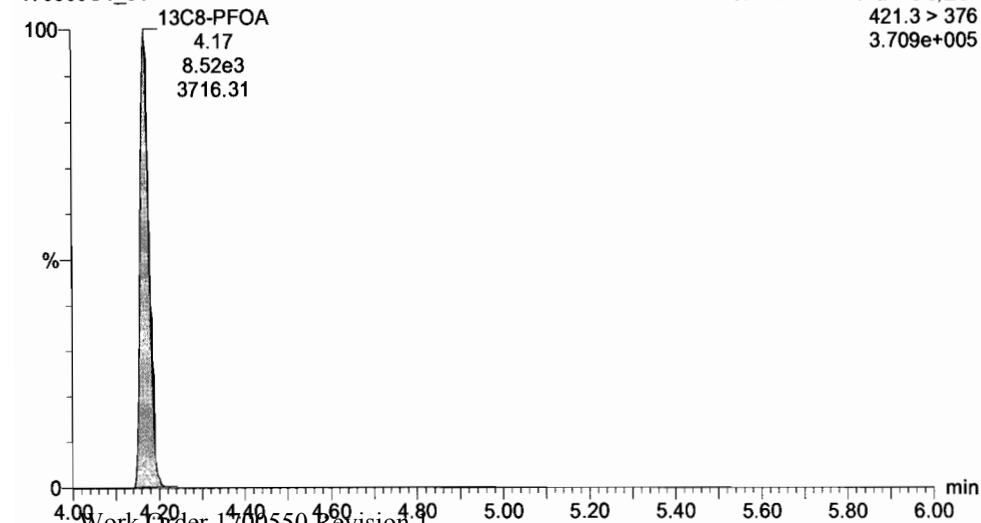
**13C3-PFHxS**

170509G1\_61



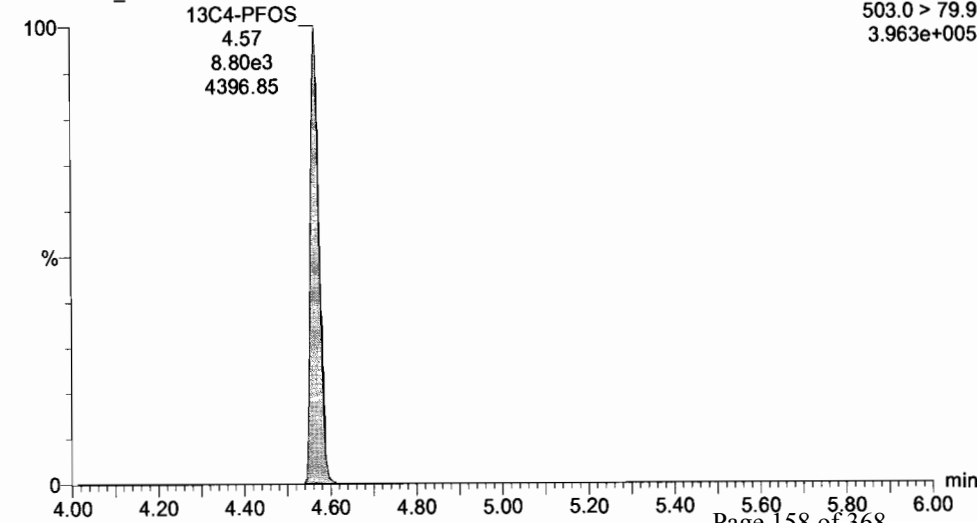
**13C8-PFOA**

170509G1\_61



**13C4-PFOS**

170509G1\_61





Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:15:18 AM Pacific Daylight Time

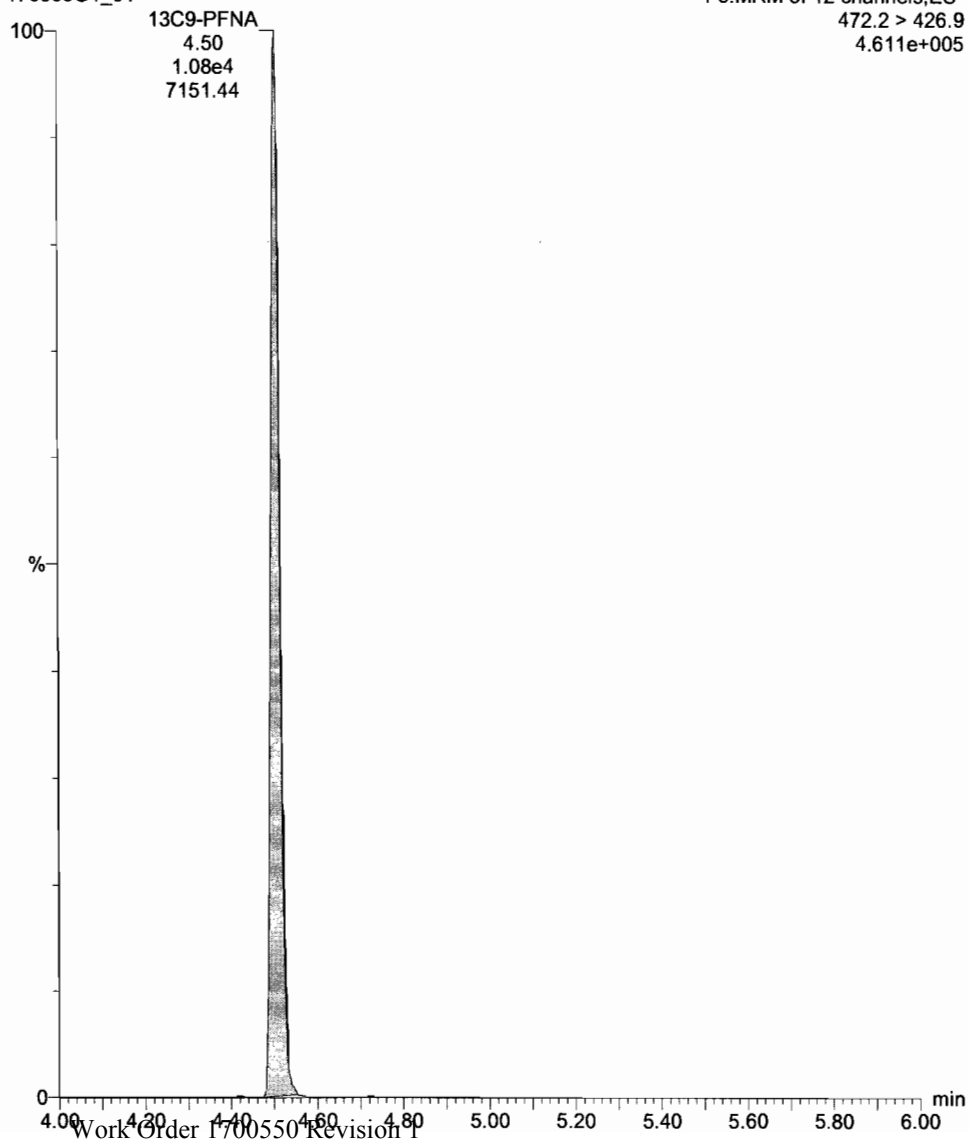
Printed: Wednesday, May 10, 2017 9:15:29 AM Pacific Daylight Time

Name: 170509G1\_61, Date: 09-May-2017, Time: 22:35:02, ID: ST170509G1-5 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

13C9-PFNA

170509G1\_61

F5:MRM of 12 channels,ES-  
472.2 > 426.9  
4.611e+005



Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-66.qld

Last Altered: Wednesday, May 10, 2017 9:18:49 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:19:58 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_66, Date: 09-May-2017, Time: 23:38:08, ID: ST170509G1-6 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBS	298.8 > 79.7	1.84e4	6.88e3		1.000	2.91	11.9	118.8
2	2 PFHpA	363 > 318.9	2.46e4	1.28e4		1.000	3.77	12.4	124.4
3	3 PFHxS	398.8 > 79.8	1.44e4	6.60e3		1.000	3.89	11.3	112.8
4	4 PFOA	412.8 > 369.0	1.84e4	2.63e4		1.000	4.17	8.93	89.3
5	5 PFNA	462.8 > 418.8	2.33e4	9.31e3		1.000	4.51	10.2	101.6
6	6 PFOS	498.7 > 79.8	2.33e3	1.03e4		1.000	4.57	7.64	76.4
7	7 13C3-PFBS	302.0 > 98.8	6.88e3	1.42e4	0.453	1.000	2.90	13.4	107.2
8	8 13C4-PFHpA	367.2 > 321.8	1.28e4	1.42e4	0.857	1.000	3.77	13.1	105.1
9	9 18O2-PFHxS	403 > 102.6	6.60e3	1.42e4	0.440	1.000	3.89	13.2	105.9
10	10 13C2-PFOA	414.9 > 369.7	2.63e4	7.71e3	3.366	1.000	4.17	12.7	101.3
11	11 13C5-PFNA	468.2 > 422.9	9.31e3	9.65e3	0.909	1.000	4.51	13.3	106.2
12	12 13C8-PFOS	506.7 > 79.6	1.03e4	7.41e3	1.304	1.000	4.57	13.3	106.5
13	13 13C5-PFHxA	318 > 272.9	2.26e4	2.26e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.42e4	1.42e4	1.000	1.000	3.89	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	7.71e3	7.71e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	9.65e3	9.65e3	1.000	1.000	4.51	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	7.41e3	7.41e3	1.000	1.000	4.57	12.5	100.0

75-125  
60-156  
50-156  
40-150

Ok  
5/10/17  
W  
5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq_Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: Untitled

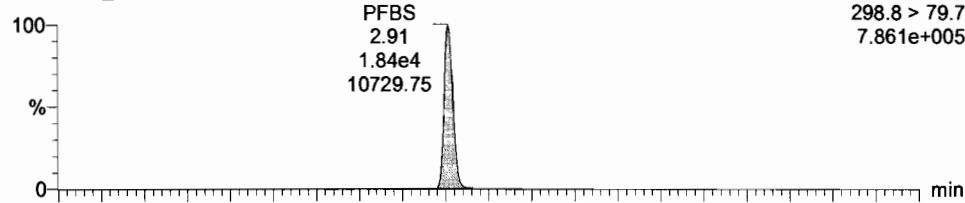
Last Altered: Wednesday, May 10, 2017 9:18:17 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:18:30 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_66, Date: 09-May-2017, Time: 23:38:08, ID: ST170509G1-6 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

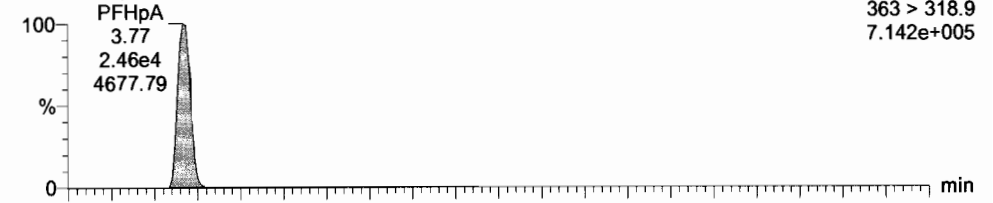
**PFBS**

170509G1\_66

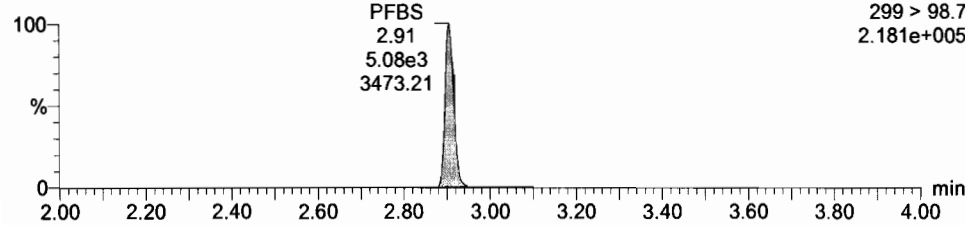


**PFHpA**

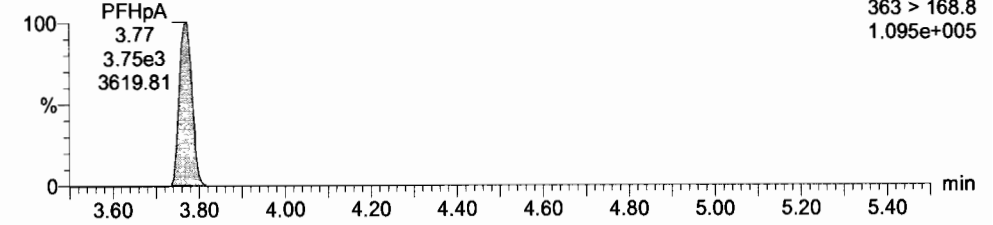
170509G1\_66



170509G1\_66

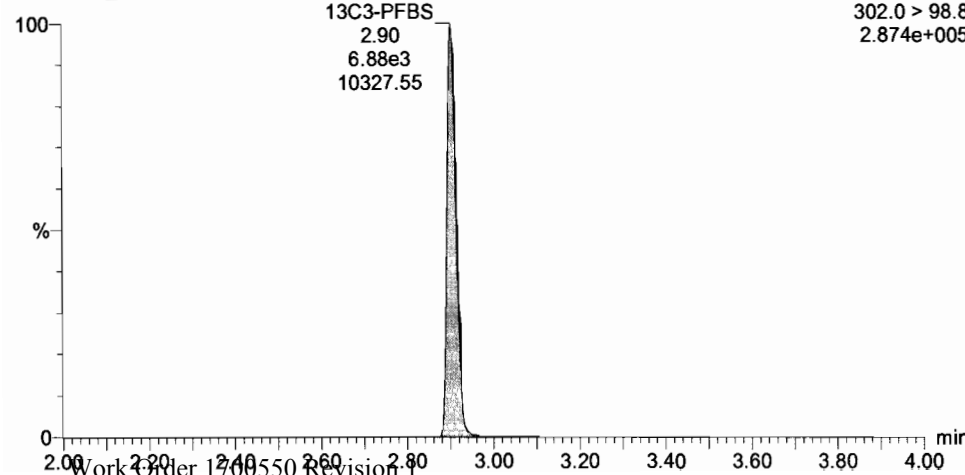


170509G1\_66



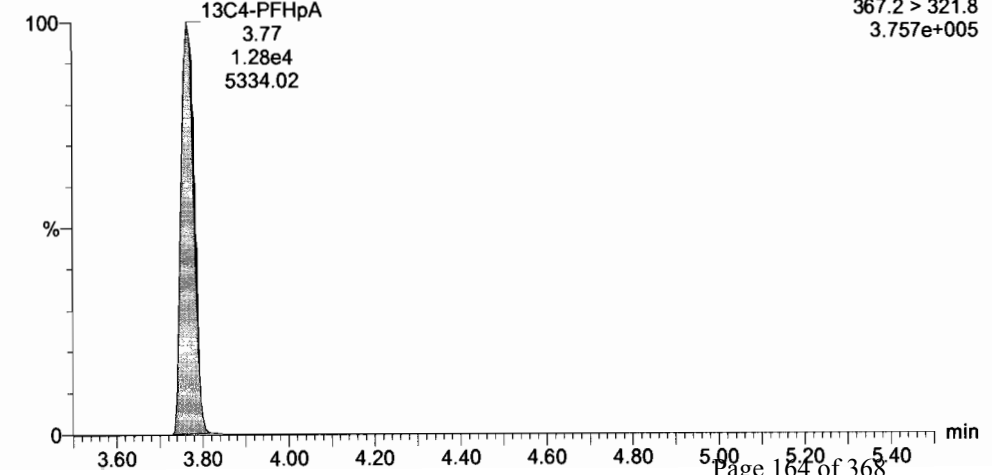
**13C3-PFBS**

170509G1\_66



**13C4-PFHpA**

170509G1\_66



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:18:17 AM Pacific Daylight Time

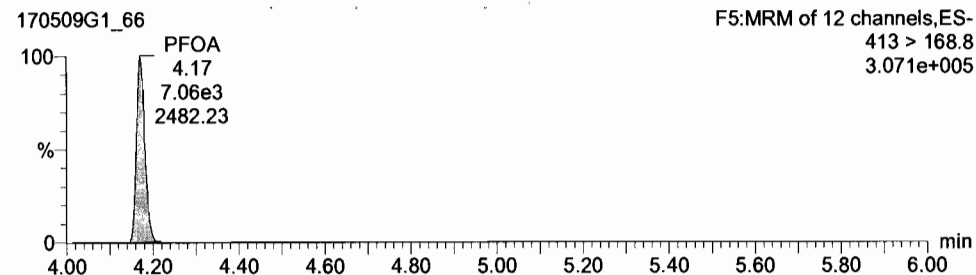
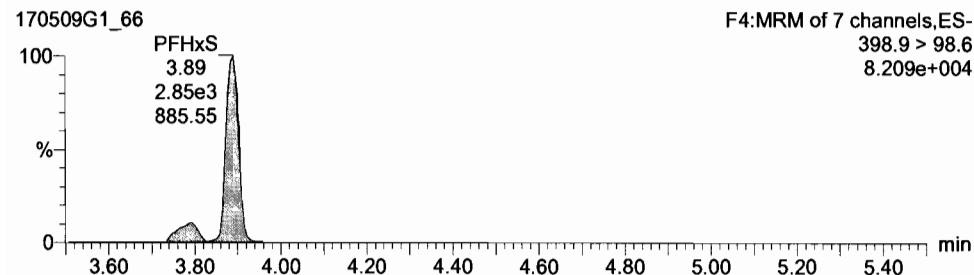
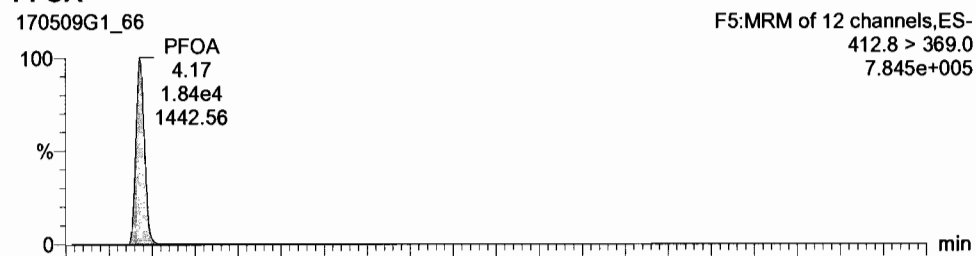
Printed: Wednesday, May 10, 2017 9:18:30 AM Pacific Daylight Time

Name: 170509G1\_66, Date: 09-May-2017, Time: 23:38:08, ID: ST170509G1-6 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

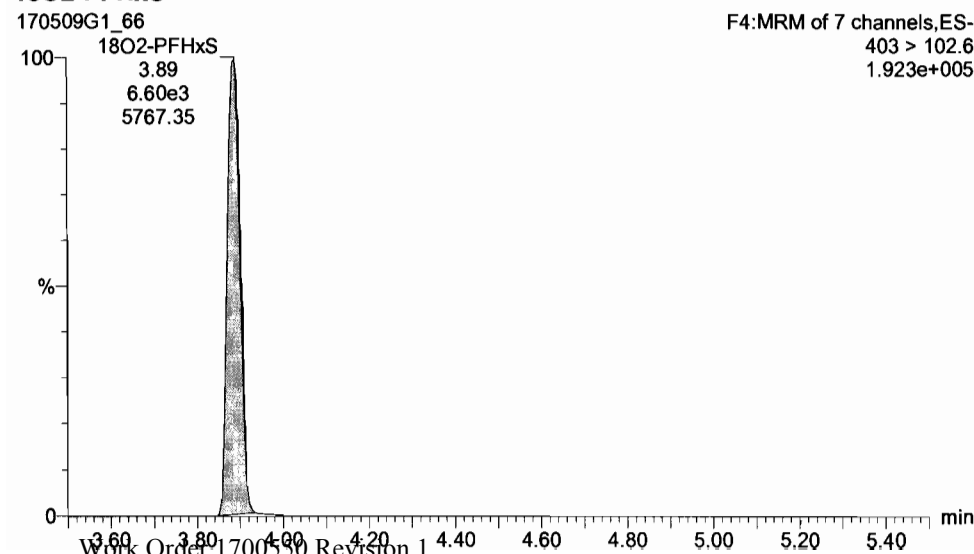
**PFHxS**



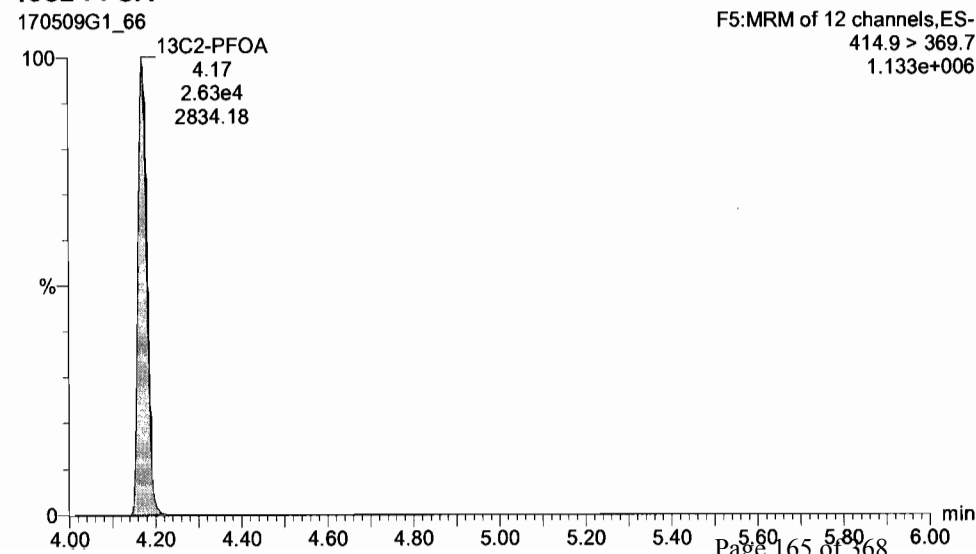
**PFOA**



**18O2-PFHxS**

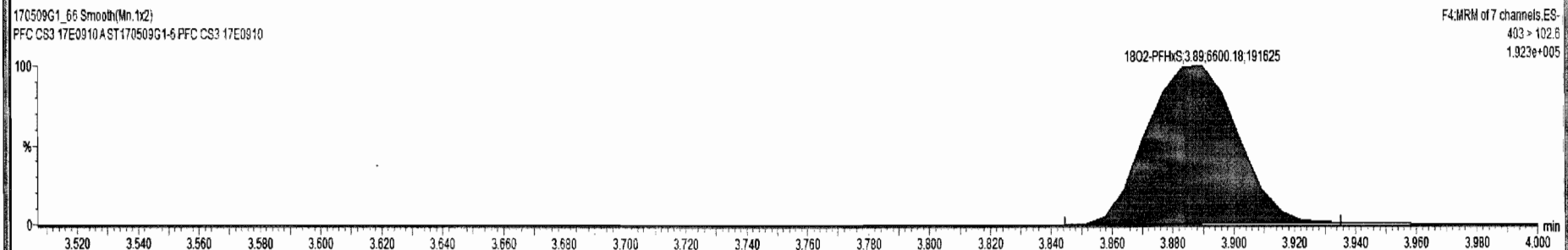
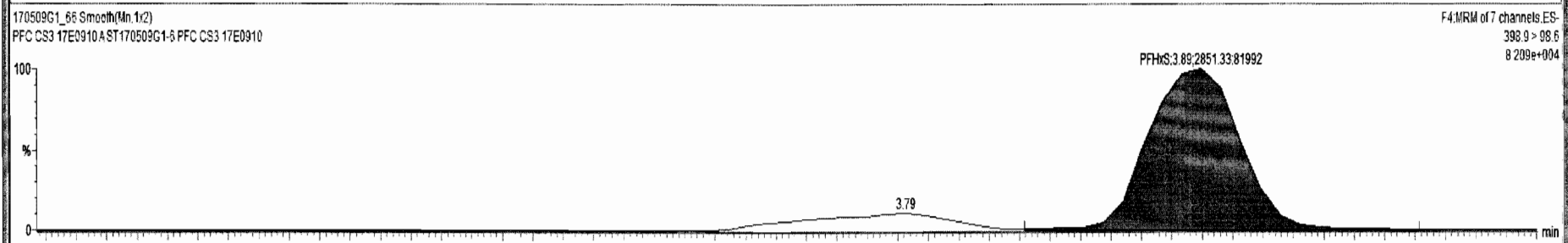
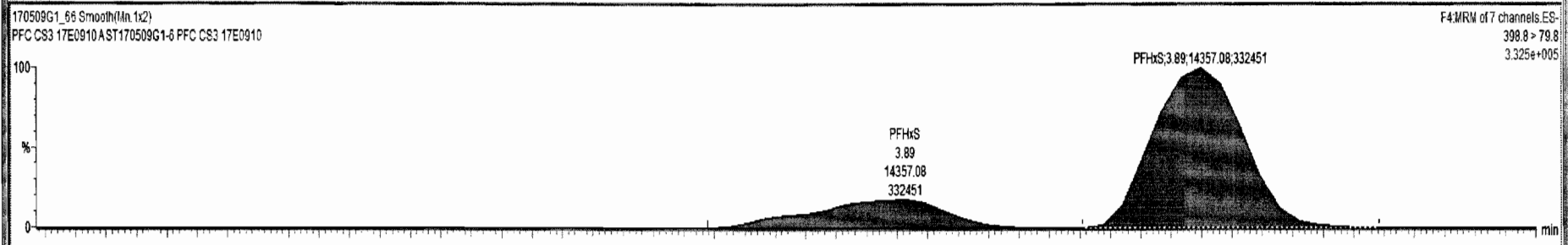


**13C2-PFOA**



170509G1\_66 - ST170509G1-6 PFC CS3 17E0910 - PFC CS3 17E0910 A

Name	Trace	Area	Response	RRF	Vol	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D.
1	PFBS	296.8 > 79.7	1.84e4	33.499	3.350	1.000	2.91	11.8	118.8	0.0027905	0.9996
2	PFHpA	363 > 318.9	2.46e4	24.065	2.407	1.000	3.77	12.4	124.4	0.0000000	0.9981
3	PFHxS	398.8 > 79.8	1.44e4	27.191	2.719	1.000	3.89	11.3	112.8	0.0000000	0.9980
4	PFDA	412.8 > 369.0	1.84e4	8.741	0.874	1.000	4.17	8.93	89.3	0.0000000	0.9993
5	PFNA	462.8 > 418.8	2.33e4	31.314	3.131	1.000	4.51	10.2	101.6	0.0000000	0.9968
6	PFOS	498.7 > 79.8	2.33e3	2.834	0.283	1.000	4.57	7.64	76.4	0.1428962	0.9895
7	13C3-PFBS	302.0 > 98.8	6.88e3	6.085	0.485	1.000	2.90	13.4	107.2	0.0046268	3.87
8	13C4-PFHpA	367.2 > 321.8	1.28e4	11.257	0.901	1.000	3.77	13.1	105.1	0.0061732	4.31
9	18O2-PFHxS	403 > 102.6	6.60e3	5.816	0.465	1.000	3.89	13.2	105.9	0.0056878	4.28
10	13C2-PFOA	414.9 > 369.7	2.63e4	42.631	3.410	1.000	4.17	12.7	101.3	0.0118235	4.64
11	13C5-PFNA	488.2 > 422.9	9.31e3	12.059	0.965	1.000	4.51	13.3	106.2	0.0057035	7.68
12	13C8-PFOS	506.7 > 79.6	1.03e4	17.359	1.389	1.000	4.57	13.3	106.5	0.0048493	3.13
13	13C5-PFHxA	318 > 272.9	2.26e4	12.500	1.000	1.000	3.26	12.5	100.0	0.0123519	0.000
14	13C3-PFHxS	401.9 > 79.9	1.42e4	12.500	1.000	1.000	3.89	12.5	100.0	0.0026784	0.000





Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:18:17 AM Pacific Daylight Time

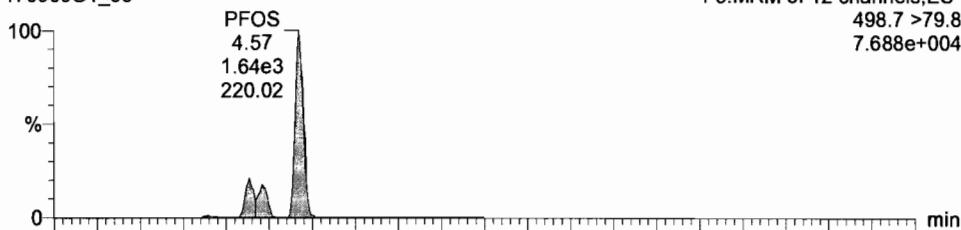
Printed: Wednesday, May 10, 2017 9:18:30 AM Pacific Daylight Time

Name: 170509G1\_66, Date: 09-May-2017, Time: 23:38:08, ID: ST170509G1-6 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**PFOS**

170509G1\_66

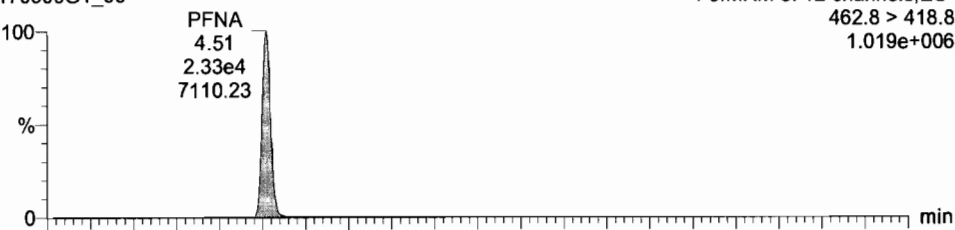
F5:MRM of 12 channels,ES-  
498.7 >79.8  
7.688e+004



**PFNA**

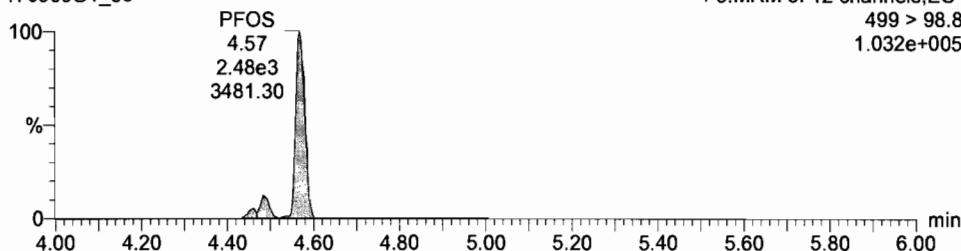
170509G1\_66

F5:MRM of 12 channels,ES-  
462.8 > 418.8  
1.019e+006



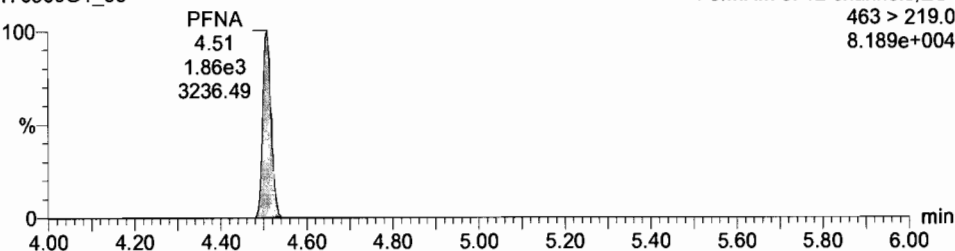
170509G1\_66

F5:MRM of 12 channels,ES-  
499 > 98.8  
1.032e+005



170509G1\_66

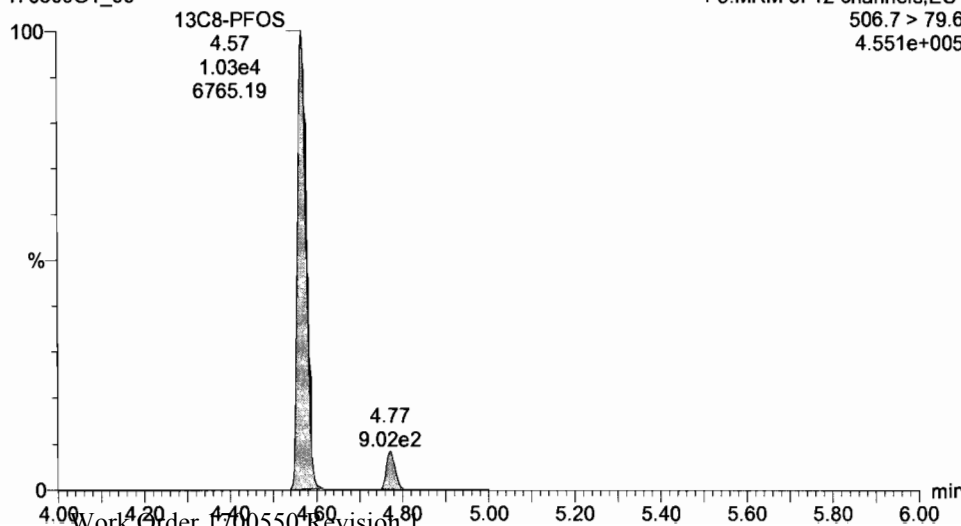
F5:MRM of 12 channels,ES-  
463 > 219.0  
8.189e+004



**13C8-PFOS**

170509G1\_66

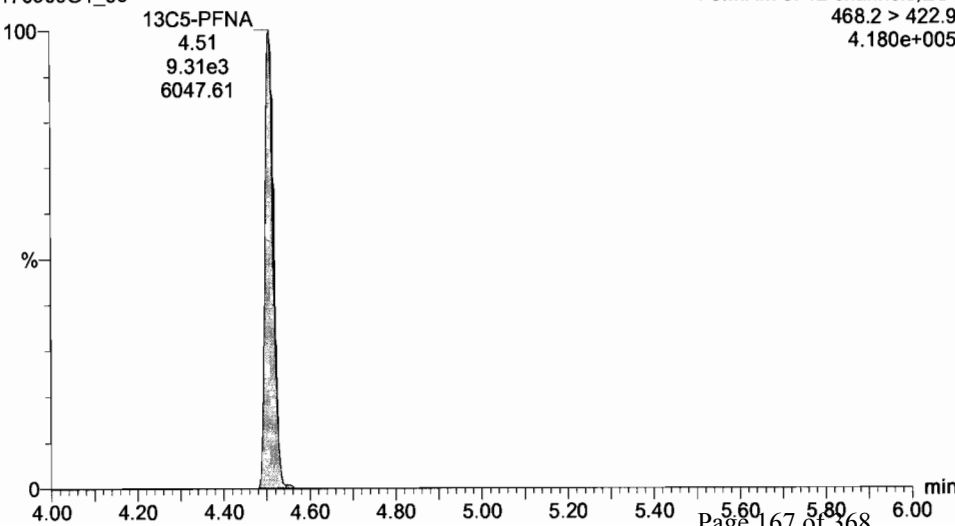
F5:MRM of 12 channels,ES-  
506.7 > 79.6  
4.551e+005

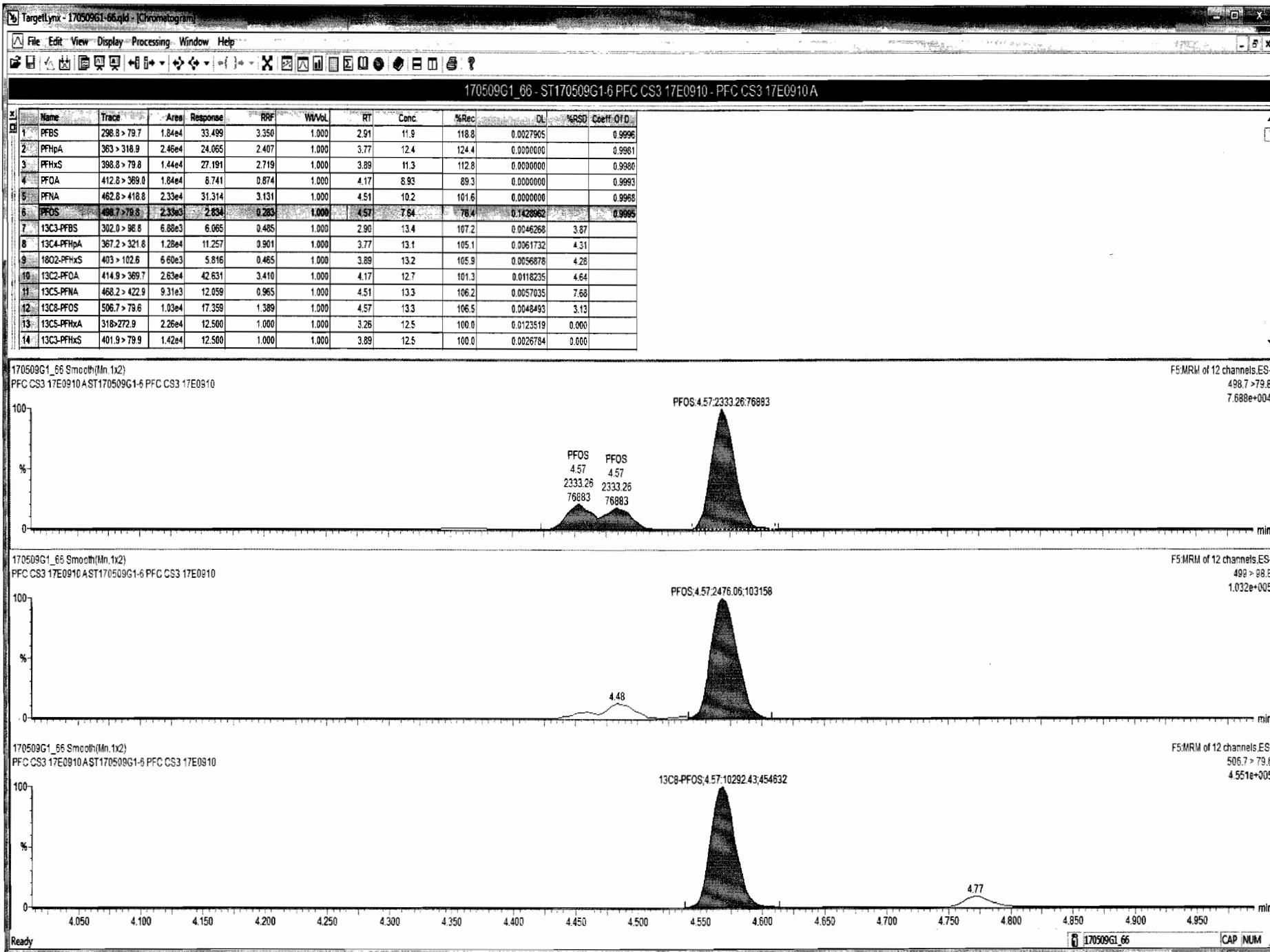


**13C5-PFNA**

170509G1\_66

F5:MRM of 12 channels,ES-  
468.2 > 422.9  
4.180e+005





Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:18:17 AM Pacific Daylight Time

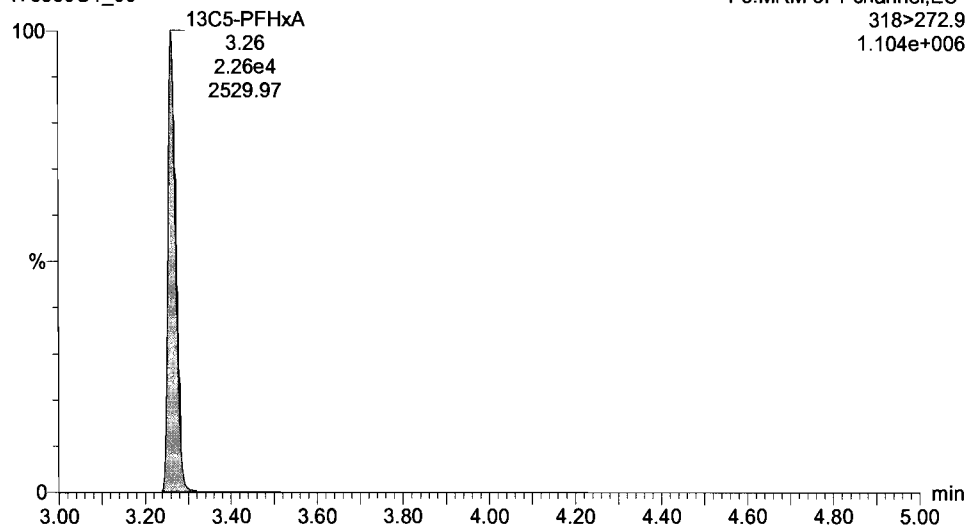
Printed: Wednesday, May 10, 2017 9:18:30 AM Pacific Daylight Time

Name: 170509G1\_66, Date: 09-May-2017, Time: 23:38:08, ID: ST170509G1-6 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

**13C5-PFHxA**

170509G1\_66

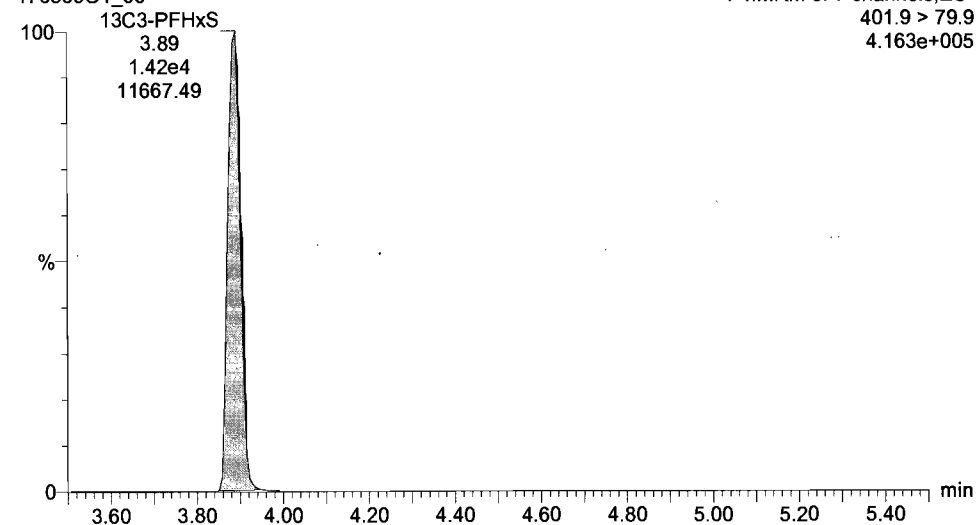
F3:MRM of 1 channel,ES-  
318>272.9  
1.104e+006



**13C3-PFHxS**

170509G1\_66

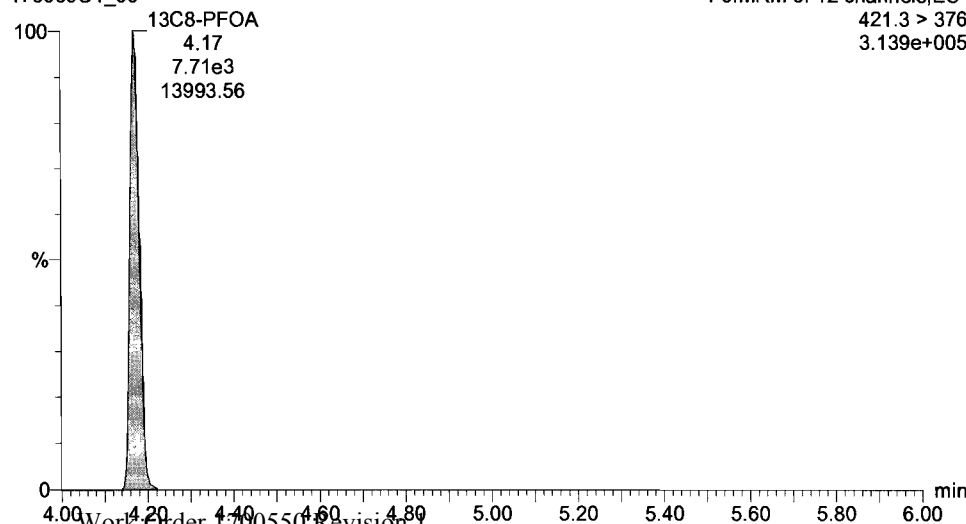
F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.163e+005



**13C8-PFOA**

170509G1\_66

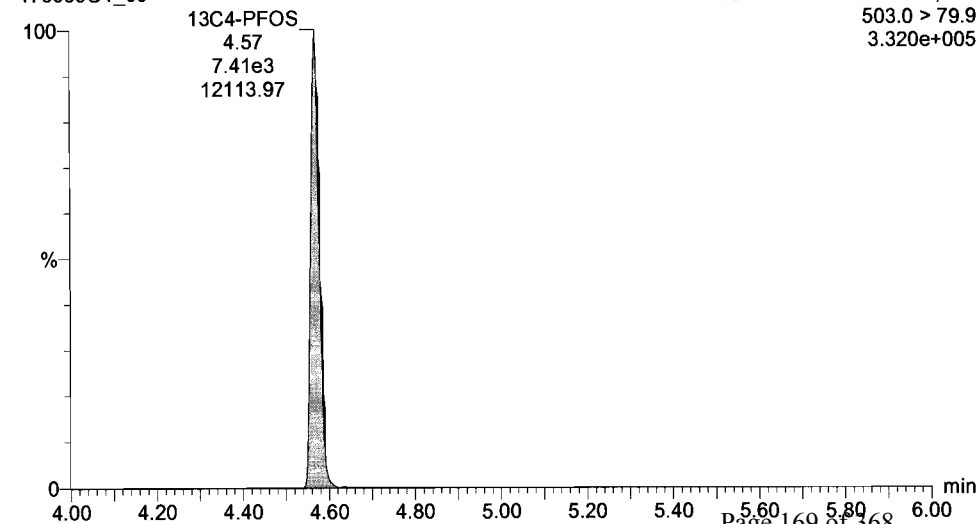
F5:MRM of 12 channels,ES-  
421.3 > 376  
3.139e+005



**13C4-PFOS**

170509G1\_66

F5:MRM of 12 channels,ES-  
503.0 > 79.9  
3.320e+005



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:18:17 AM Pacific Daylight Time

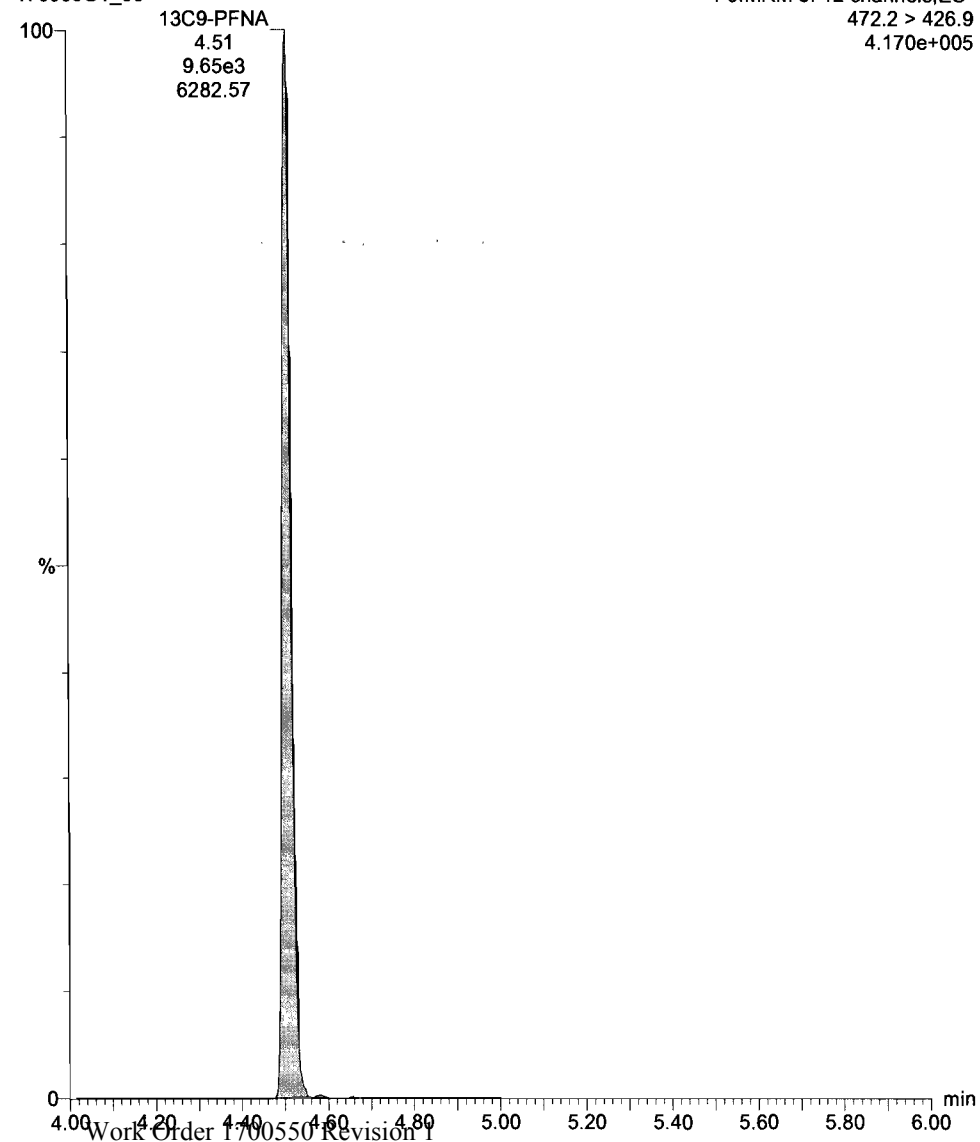
Printed: Wednesday, May 10, 2017 9:18:30 AM Pacific Daylight Time

Name: 170509G1\_66, Date: 09-May-2017, Time: 23:38:08, ID: ST170509G1-6 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

13C9-PFNA

170509G1\_66

F5:MRM of 12 channels,ES-  
472.2 > 426.9  
4.170e+005



## **INITIAL CALIBRATION**

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

**Compound name: PFBS**

Coefficient of Determination:  $R^2 = 0.996165$   
Calibration curve:  $-0.00549123 * x^2 + 1.05017 * x$   
Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

*CP 5/8/17*

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.442	2.92	1.35e2	1.08e4	0.344	-22.1	0.816
2	2 170508G1_3	0.885	2.91	3.43e2	1.18e4	0.795	-10.2	0.939
3	3 170508G1_4	1.77	2.91	7.05e2	1.14e4	1.71	-3.3	1.01
4	4 170508G1_5	4.42	2.92	1.65e3	1.19e4	3.87	-12.5	0.901
5	5 170508G1_6	8.85	2.91	3.92e3	1.11e4	10.2	15.4	1.15
6	6 170508G1_7	13.3	2.91	5.44e3	1.21e4	13.2	-0.7	0.971
7	7 170508G1_8	17.7	2.92	6.74e3	1.16e4	17.5	-1.0	0.944
8	8 170508G1_9	22.1	2.91	8.69e3	1.23e4	21.8	-1.5	0.916
9	9 170508G1_10	44.2	2.91	1.57e4	1.26e4	44.2	0.1	0.808

*✓ AC 5/9/17*

**Compound name: PFHpA**

Coefficient of Determination:  $R^2 = 0.995895$   
Calibration curve:  $-0.00514951 * x^2 + 1.09006 * x$   
Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.500	3.76	3.18e2	7.92e3	0.369	-26.3	0.803
2	2 170508G1_3	1.00	3.75	8.90e2	8.58e3	0.956	-4.4	1.04
3	3 170508G1_4	2.00	3.75	1.60e3	8.29e3	1.79	-10.7	0.965
4	4 170508G1_5	5.00	3.75	4.00e3	8.33e3	4.49	-10.1	0.959
5	5 170508G1_6	10.0	3.75	8.93e3	7.49e3	11.6	15.8	1.19
6	6 170508G1_7	15.0	3.75	1.28e4	8.73e3	14.4	-3.8	0.978
7	7 170508G1_8	20.0	3.75	1.62e4	8.08e3	20.3	1.4	1.00
8	8 170508G1_9	25.0	3.75	2.08e4	8.77e3	24.7	-1.3	0.951
9	9 170508G1_10	50.0	3.75	3.61e4	8.68e3	49.9	-0.2	0.832

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

**Compound name: PFHxS**

Coefficient of Determination: R<sup>2</sup> = 0.997755

Calibration curve: -0.0054302 \* x<sup>2</sup> + 1.22989 \* x

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.456	3.86	2.14e2	1.08e4	0.465	2.0	1.25
2	2 170508G1_3	0.910	3.86	4.22e2	1.18e4	0.836	-8.2	1.13
3	3 170508G1_4	1.82	3.86	8.20e2	1.14e4	1.70	-6.7	1.14
4	4 170508G1_5	4.56	3.86	2.09e3	1.19e4	4.19	-8.2	1.11
5	5 170508G1_6	9.12	3.86	4.64e3	1.11e4	10.3	12.4	1.32
6	6 170508G1_7	13.7	3.86	6.57e3	1.21e4	13.5	-1.6	1.14
7	7 170508G1_8	18.2	3.86	8.28e3	1.16e4	18.2	-0.2	1.13
8	8 170508G1_9	22.8	3.86	1.06e4	1.23e4	22.4	-1.8	1.09
9	9 170508G1_10	45.6	3.86	1.97e4	1.26e4	45.7	0.3	0.984

**Compound name: PFOA**

Coefficient of Determination: R<sup>2</sup> = 0.995856

Calibration curve: -0.00317929 \* x<sup>2</sup> + 0.82363 \* x

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.500	4.14	2.71e2	7.92e3	0.416	-16.8	0.684
2	2 170508G1_3	1.00	4.14	6.84e2	8.58e3	0.972	-2.8	0.797
3	3 170508G1_4	2.00	4.14	1.22e3	8.29e3	1.80	-10.2	0.735
4	4 170508G1_5	5.00	4.14	3.06e3	8.33e3	4.54	-9.1	0.735
5	5 170508G1_6	10.0	4.14	6.91e3	7.49e3	11.7	17.3	0.923
6	6 170508G1_7	15.0	4.14	9.77e3	8.73e3	14.4	-4.1	0.746
7	7 170508G1_8	20.0	4.14	1.22e4	8.08e3	19.8	-1.1	0.752
8	8 170508G1_9	25.0	4.14	1.62e4	8.77e3	24.8	-0.8	0.739
9	9 170508G1_10	50.0	4.14	2.89e4	8.68e3	50.1	0.2	0.666

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

**Compound name: PFOS**

Coefficient of Determination:  $R^2 = 0.993048$

Calibration curve:  $-0.0011599 * x^2 + 0.357599 * x$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.464	4.52	4.95e1	1.08e4	0.370	-20.3	0.285
2	2 170508G1_3	0.930	4.52	1.31e2	1.18e4	0.888	-4.5	0.340
3	3 170508G1_4	1.86	4.51	2.00e2	1.14e4	1.42	-23.7	0.272
4	4 170508G1_5	4.64	4.52	5.56e2	1.19e4	3.80	-18.1	0.289
5	5 170508G1_6	9.26	4.52	1.45e3	1.11e4	10.9	17.4	0.405
6	6 170508G1_7	13.9	4.52	1.94e3	1.21e4	13.4	-3.6	0.330
7	7 170508G1_8	18.6	4.52	2.66e3	1.16e4	19.7	5.9	0.354
8	8 170508G1_9	23.1	4.52	3.23e3	1.23e4	22.7	-1.8	0.325
9	9 170508G1_10	46.3	4.52	6.13e3	1.26e4	45.9	-0.8	0.302

**Compound name: PFNA**

Coefficient of Determination:  $R^2 = 0.995585$

Calibration curve:  $-0.00717833 * x^2 + 1.59366 * x$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.500	4.46	4.50e2	7.92e3	0.357	-28.6	1.14
2	2 170508G1_3	1.00	4.46	1.15e3	8.58e3	0.846	-15.4	1.34
3	3 170508G1_4	2.00	4.46	2.50e3	8.29e3	1.91	-4.5	1.51
4	4 170508G1_5	5.00	4.46	6.08e3	8.33e3	4.68	-6.4	1.46
5	5 170508G1_6	10.0	4.46	1.31e4	7.49e3	11.6	16.2	1.75
6	6 170508G1_7	15.0	4.46	1.82e4	8.73e3	14.0	-6.8	1.39
7	7 170508G1_8	20.0	4.47	2.39e4	8.08e3	20.4	2.0	1.48
8	8 170508G1_9	25.0	4.46	3.07e4	8.77e3	24.8	-1.0	1.40
9	9 170508G1_10	50.0	4.46	5.35e4	8.68e3	50.0	-0.1	1.23



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

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**Compound name: 13C2-PFHxA**

Response Factor: 0.401178

RRF SD: 0.0288217, Relative SD: 7.18426

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	10.0	3.28	3.14e3	7.92e3	9.90	-1.0	0.397
2	2 170508G1_3	10.0	3.28	3.27e3	8.58e3	9.49	-5.1	0.381
3	3 170508G1_4	10.0	3.27	3.21e3	8.29e3	9.64	-3.6	0.387
4	4 170508G1_5	10.0	3.27	3.19e3	8.33e3	9.53	-4.7	0.382
5	5 170508G1_6	10.0	3.28	3.47e3	7.49e3	11.6	15.5	0.464
6	6 170508G1_7	10.0	3.27	3.38e3	8.73e3	9.64	-3.6	0.387
7	7 170508G1_8	10.0	3.27	3.51e3	8.08e3	10.8	8.4	0.435
8	8 170508G1_9	10.0	3.27	3.49e3	8.77e3	9.92	-0.8	0.398
9	9 170508G1_10	10.0	3.27	3.31e3	8.68e3	9.50	-5.0	0.381

**Compound name: 13C2-PFDA**

Response Factor: 0.748479

RRF SD: 0.0466575, Relative SD: 6.23364

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	10.0	4.73	5.97e3	7.92e3	10.1	0.6	0.753
2	2 170508G1_3	10.0	4.73	5.88e3	8.58e3	9.16	-8.4	0.686
3	3 170508G1_4	10.0	4.73	5.80e3	8.29e3	9.34	-6.6	0.699
4	4 170508G1_5	10.0	4.73	6.39e3	8.33e3	10.2	2.4	0.766
5	5 170508G1_6	10.0	4.73	6.26e3	7.49e3	11.2	11.6	0.835
6	6 170508G1_7	10.0	4.73	6.34e3	8.73e3	9.71	-2.9	0.726
7	7 170508G1_8	10.0	4.74	6.25e3	8.08e3	10.3	3.3	0.773
8	8 170508G1_9	10.0	4.73	6.84e3	8.77e3	10.4	4.3	0.781
9	9 170508G1_10	10.0	4.74	6.22e3	8.68e3	9.58	-4.2	0.717

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

**Compound name: 13C2-PFOA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	10.0	4.14	7.92e3	7.92e3	10.0	0.0	1.00
2	2 170508G1_3	10.0	4.14	8.58e3	8.58e3	10.0	0.0	1.00
3	3 170508G1_4	10.0	4.14	8.29e3	8.29e3	10.0	0.0	1.00
4	4 170508G1_5	10.0	4.14	8.33e3	8.33e3	10.0	0.0	1.00
5	5 170508G1_6	10.0	4.14	7.49e3	7.49e3	10.0	0.0	1.00
6	6 170508G1_7	10.0	4.14	8.73e3	8.73e3	10.0	0.0	1.00
7	7 170508G1_8	10.0	4.14	8.08e3	8.08e3	10.0	0.0	1.00
8	8 170508G1_9	10.0	4.14	8.77e3	8.77e3	10.0	0.0	1.00
9	9 170508G1_10	10.0	4.14	8.68e3	8.68e3	10.0	0.0	1.00

**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	28.7	4.52	1.08e4	1.08e4	28.7	0.0	1.00
2	2 170508G1_3	28.7	4.52	1.18e4	1.18e4	28.7	0.0	1.00
3	3 170508G1_4	28.7	4.52	1.14e4	1.14e4	28.7	0.0	1.00
4	4 170508G1_5	28.7	4.52	1.19e4	1.19e4	28.7	0.0	1.00
5	5 170508G1_6	28.7	4.52	1.11e4	1.11e4	28.7	0.0	1.00
6	6 170508G1_7	28.7	4.52	1.21e4	1.21e4	28.7	0.0	1.00
7	7 170508G1_8	28.7	4.52	1.16e4	1.16e4	28.7	0.0	1.00
8	8 170508G1_9	28.7	4.52	1.23e4	1.23e4	28.7	0.0	1.00
9	9 170508G1_10	28.7	4.52	1.26e4	1.26e4	28.7	0.0	1.00

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 13:40:38 Pacific Daylight Time

Printed: Wednesday, May 10, 2017 13:42:41 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170508G1_1	IPA	08-May-17	10:00:39
2	170508G1_2	ST170508G1-1 PFC CS-3 17E0421	08-May-17	10:13:04
3	170508G1_3	ST170508G1-2 PFC CS-2 17E0420	08-May-17	10:25:26
4	170508G1_4	ST170508G1-3 PFC CS-1 17E0419	08-May-17	10:37:49
5	170508G1_5	ST170508G1-4 PFC CS0 17E0417	08-May-17	10:50:15
6	170508G1_6	ST170508G1-5 PFC CS1 17E0801	08-May-17	11:02:39
7	170508G1_7	ST170508G1-6 PFC CS2 17E0413	08-May-17	11:15:06
8	170508G1_8	ST170508G1-7 PFC CS3 17E0802	08-May-17	11:27:31
9	170508G1_9	ST170508G1-8 PFC CS4 17E0411	08-May-17	11:39:57
10	170508G1_10	ST170508G1-9 PFC CS5 17E0410	08-May-17	11:52:23
11	170508G1_11	IPA	08-May-17	12:04:46
12	170508G1_12	SS170508G1-1 PFC SSS 17E0409	08-May-17	12:17:11
13	170508G1_13	IPA	08-May-17	12:29:34
14	170508G1_14	B7D0150-BS1 LFB 0.25	08-May-17	12:42:00
15	170508G1_15	IPA	08-May-17	12:54:23
16	170508G1_16	B7D0150-BLK1 LRB 0.25	08-May-17	13:06:48
17	170508G1_17	1700550-01 RW02-20170501 0.25719	08-May-17	13:19:19
18	170508G1_18	1700550-02 FRB02-20170501 0.25799	08-May-17	13:32:37
19	170508G1_19	1700550-03 RW12-20170501 0.26282	08-May-17	13:45:02
20	170508G1_20	1700550-04 FRB12-20170501 0.26475	08-May-17	13:57:27
21	170508G1_21	1700550-05 RW13-20170501 0.24554	08-May-17	14:09:53
22	170508G1_22	1700550-06 FRB13-20170501 0.26467	08-May-17	14:22:15
23	170508G1_23	1700550-07 RW13G-20170501 0.26009	08-May-17	14:34:37
24	170508G1_24	1700550-08 FRB13G-20170501 0.25888	08-May-17	14:47:00
25	170508G1_25	1700550-09 RW09-20170501 0.26564	08-May-17	15:02:50
26	170508G1_26	1700550-10 FBB09-20170501 0.26575	08-May-17	15:15:19
27	170508G1_27	B7D0150-MS1 LFSM 0.26389	08-May-17	15:27:43
28	170508G1_28	B7D0150-MSD1 LFSMD 0.25542	08-May-17	15:40:08
29	170508G1_29	B7D0150-BS2 LFB 0.25	08-May-17	15:52:33
30	170508G1_30	B7D0150-BS3 LFB 0.25	08-May-17	16:05:02
31	170508G1_31	B7D0150-BS4 LFB 0.25	08-May-17	16:17:29

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 13:40:38 Pacific Daylight Time

Printed: Wednesday, May 10, 2017 13:42:41 Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170508G1_32	B7D0150-BS5 LFB 0.25	08-May-17	16:29:52
33	170508G1_33	IPA	08-May-17	16:42:15
34	<del>170508G1_34</del>	<del>ST170508G1-10 PFC CS2 17E0413</del>	<del>08-May-17</del>	<del>16:54:40</del>
35	170508G1_35	IPA	08-May-17	17:07:06

SEE 517050961-1

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

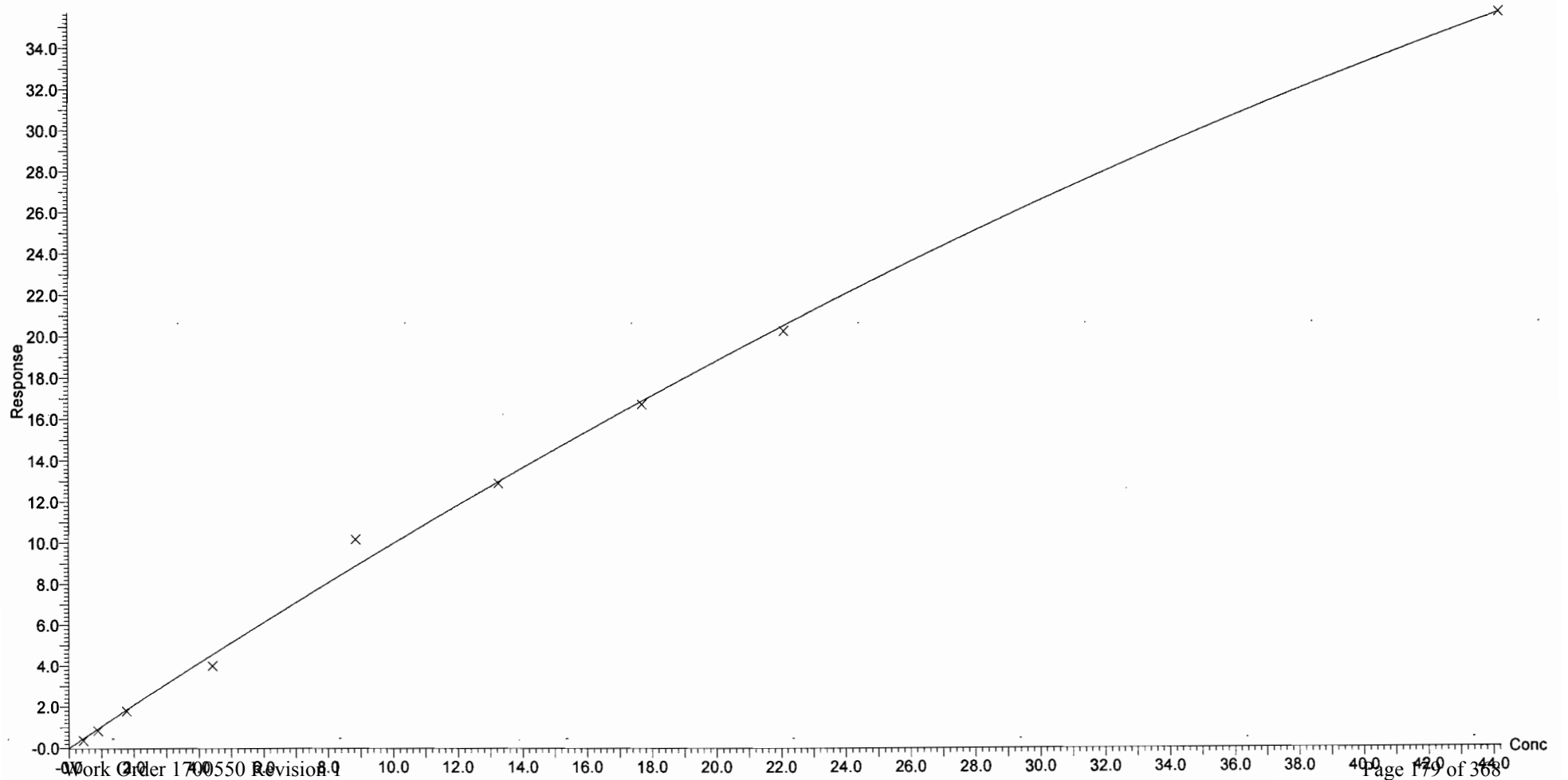
Compound name: PFBS

Coefficient of Determination:  $R^2 = 0.996165$

Calibration curve:  $-0.00549123 * x^2 + 1.05017 * x$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

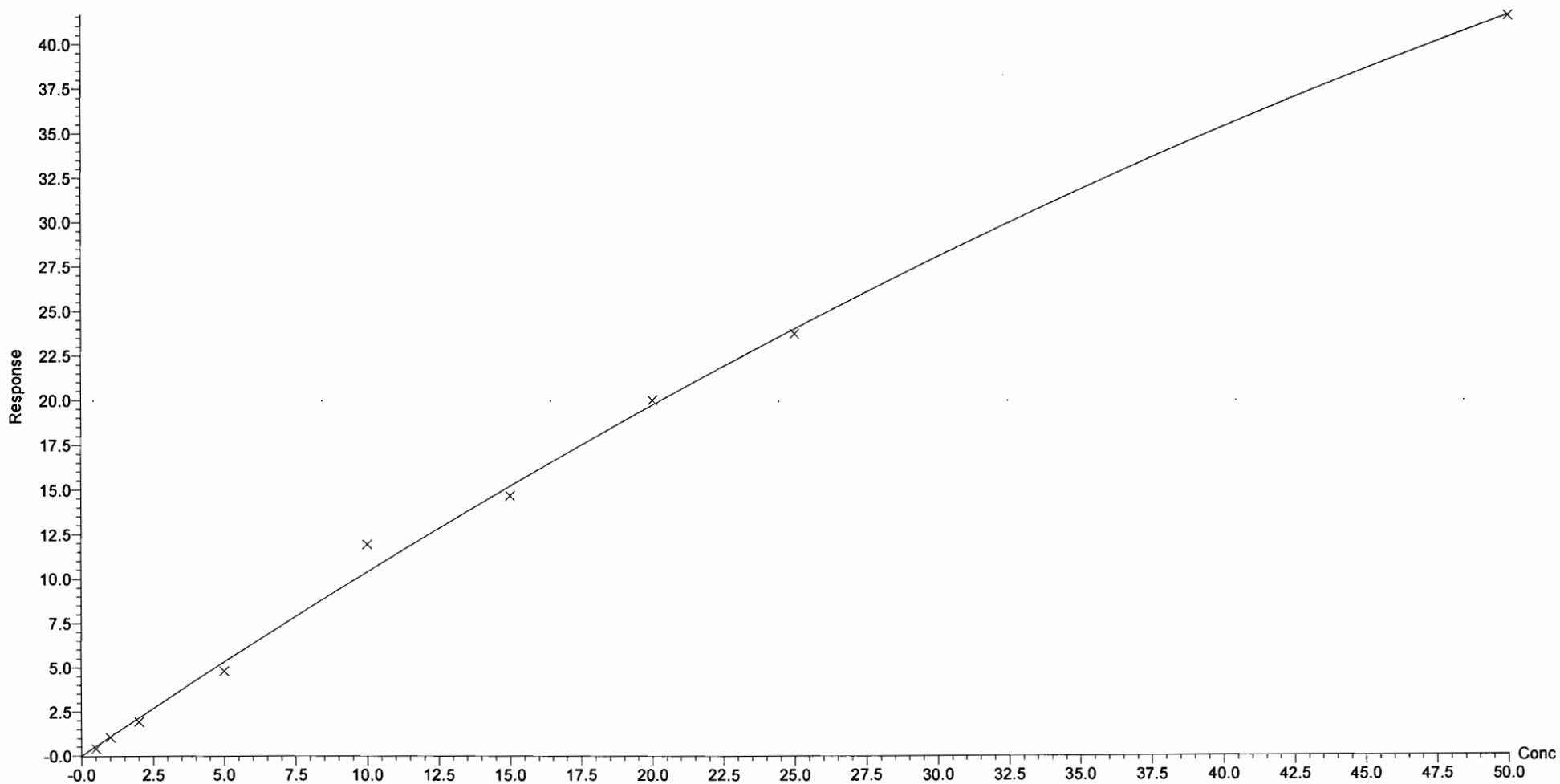
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

Compound name: PFHpA  
Coefficient of Determination:  $R^2 = 0.995895$   
Calibration curve:  $-0.00514951 * x^2 + 1.09006 * x$   
Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

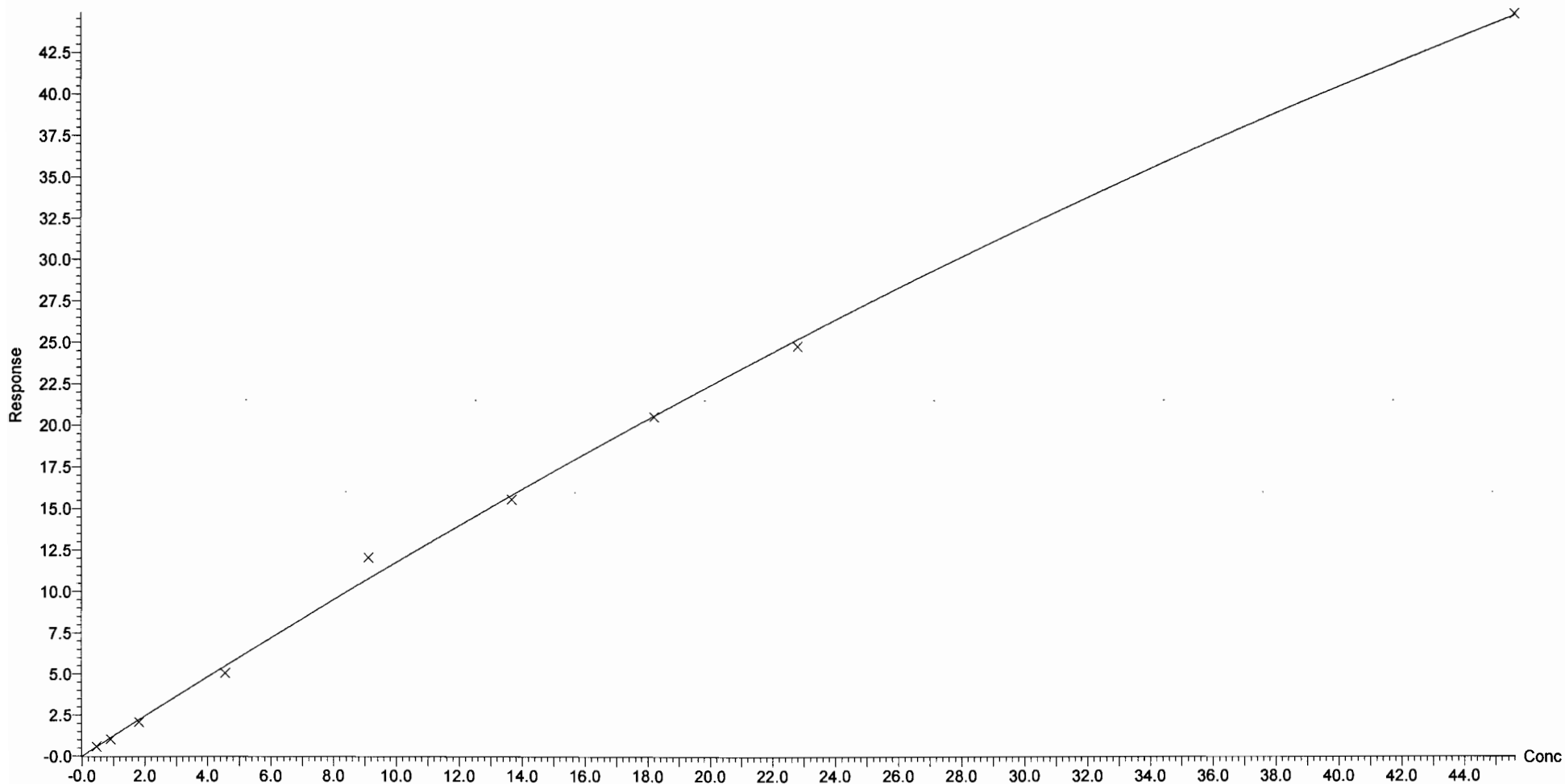
Compound name: PFHxS

Coefficient of Determination:  $R^2 = 0.997755$

Calibration curve:  $-0.0054302 * x^2 + 1.22989 * x$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

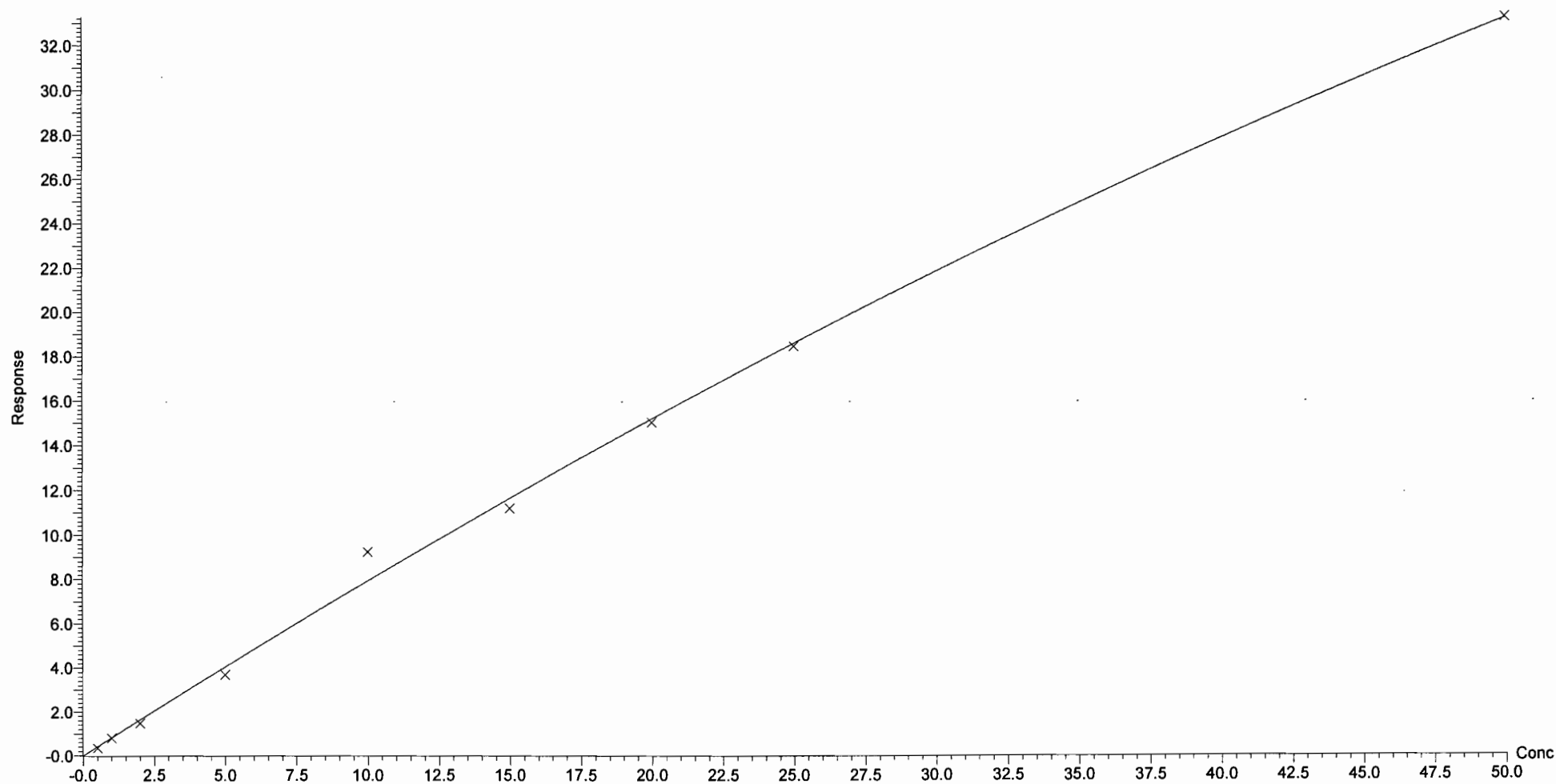
Compound name: PFOA

Coefficient of Determination:  $R^2 = 0.995856$

Calibration curve:  $-0.00317929 * x^2 + 0.82363 * x$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None





Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

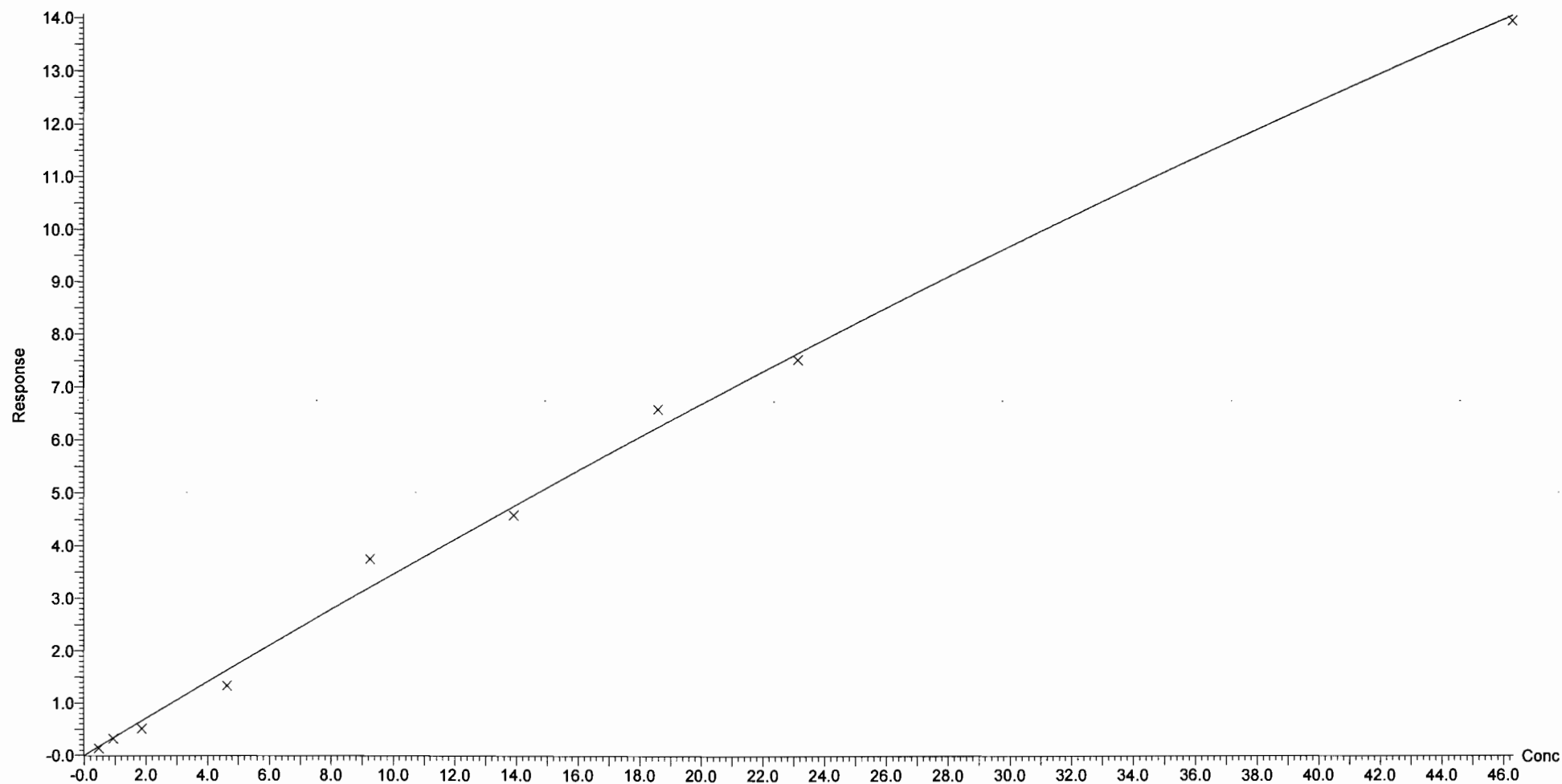
Compound name: PFOS

Coefficient of Determination:  $R^2 = 0.993048$

Calibration curve:  $-0.0011599 * x^2 + 0.357599 * x$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

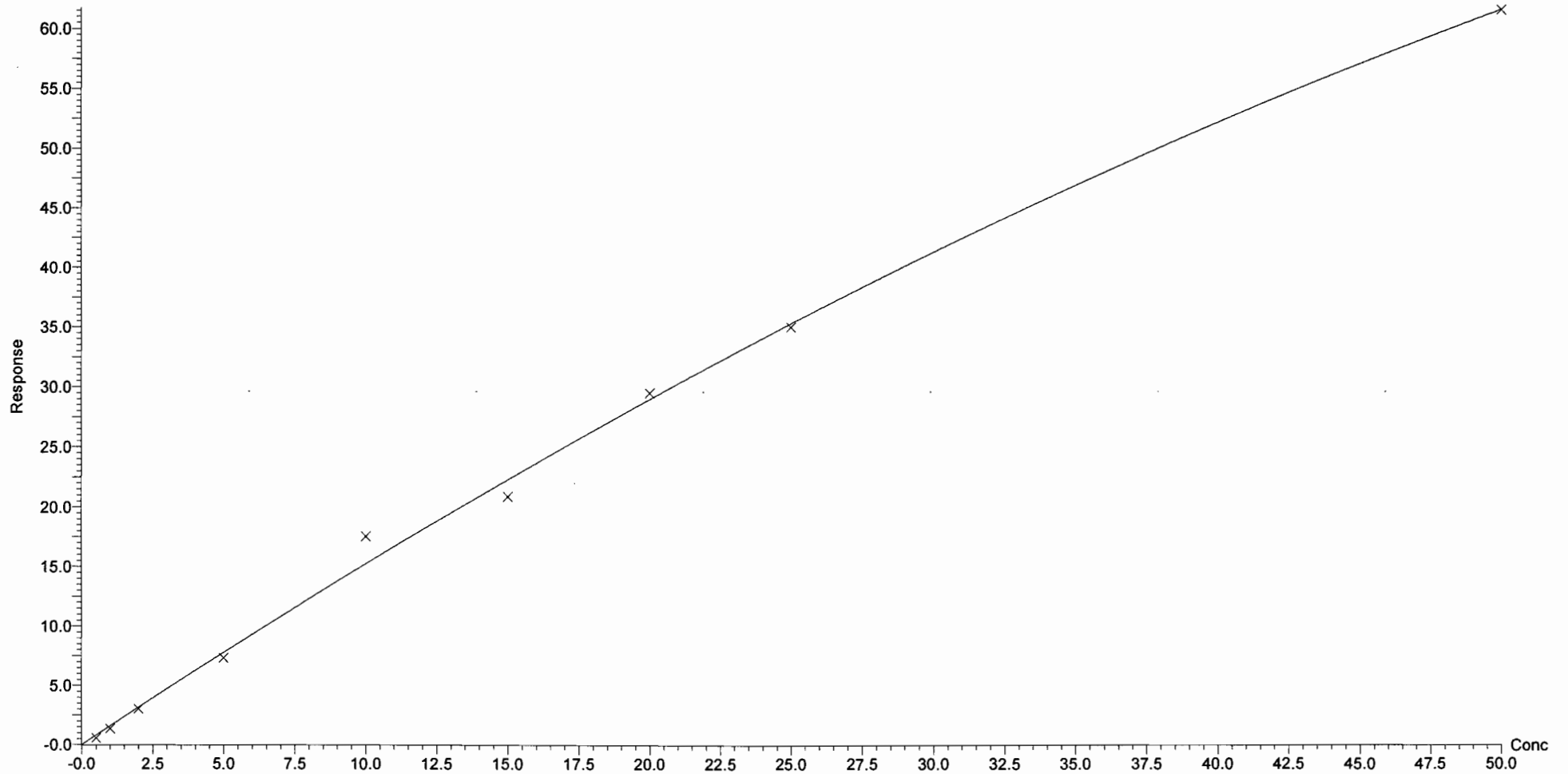


Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

Compound name: PFNA  
Coefficient of Determination:  $R^2 = 0.995585$   
Calibration curve:  $-0.00717833 * x^2 + 1.59366 * x$   
Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Quantify Compound Summary Report

Printed Mon May 08 13:50:34 2017

Compound 9: 13C2-PFOA

#	Name	Type	Std. Con	RT	Area	IS Area	Respos	Primary	Conc.	%Dev	Acq.Date	Acq.Time	Cal.Date	%Rec	RRF	Divisor1
1	170508G1_2	Standard	10	4.14	7921.7	7921.7	10	bd	10	0	8-May-17	10:13:04	8-May-17	100	1	1
2	170508G1_3	Standard	10	4.14	8578.9	8578.9	10	bb	10	0	8-May-17	10:25:26	8-May-17	100	1	1
3	170508G1_4	Standard	10	4.14	8293.8	8293.8	10	bb	10	0	8-May-17	10:37:49	8-May-17	100	1	1
4	170508G1_5	Standard	10	4.14	8334.8	8334.8	10	bb	10	0	8-May-17	10:50:15	8-May-17	100	1	1
5	170508G1_6	Standard	10	4.14	7487.5	7487.5	10	bb	10	0	8-May-17	11:02:39	8-May-17	100	1	1
6	170508G1_7	Standard	10	4.14	8730.7	8730.7	10	bd	10	0	8-May-17	11:15:06	8-May-17	100	1	1
7	170508G1_8	Standard	10	4.14	8081.1	8081.1	10	bd	10	0	8-May-17	11:27:31	8-May-17	100	1	1
8	170508G1_9	Standard	10	4.14	8769.2	8769.2	10	bd	10	0	8-May-17	11:39:57	8-May-17	100	1	1
9	170508G1_10	Standard	10	4.14	8678.1	8678.1	10	bd	10	0	8-May-17	11:52:23	8-May-17	100	1	1

Compound 9: 13C2-PFOA

RPD	HIGH AREA	8769
	LOW AREA	7488
	RPD %	15.8

INSTRUCTIONS: IN TARGETLYNX, VERIFY YOU ARE USING THE LIST14 DW LAYOUT. RIGHT CLICK ON THE SUMMARY BOX AND SELECT "LIST BY COMPOUND". SELECT 13C2-PFOA, 13C4-PFOA OR D3-NMEFOSAA. CLICK ON EDIT. SELECT COPY CURRENT SUMMARY. PASTE IN CELL A1.

Quantify Compound Summary Report

Printed Mon May 08 13:47:34 2017

Compound 10: 13C4-PFOS

#	Name	Type	Std. Con	RT	Area	IS Area	Respons	Primary	Conc.	%Dev	Acq.Date	Acq.Time	Cal.Date	%Rec	RRF	Divisor1
1	170508G1_2	Standard	28.7	4.52	10752	10752	28.7	MM	28.7	0	8-May-17	10:13:04	8-May-17	100	1	1
2	170508G1_3	Standard	28.7	4.52	11832	11832	28.7	MM	28.7	0	8-May-17	10:25:26	8-May-17	100	1	1
3	170508G1_4	Standard	28.7	4.52	11360	11360	28.7	MM	28.7	0	8-May-17	10:37:49	8-May-17	100	1	1
4	170508G1_5	Standard	28.7	4.52	11899	11899	28.7	MM	28.7	0	8-May-17	10:50:15	8-May-17	100	1	1
5	170508G1_6	Standard	28.7	4.52	11071	11071	28.7	MM	28.7	0	8-May-17	11:02:39	8-May-17	100	1	1
6	170508G1_7	Standard	28.7	4.52	12118	12118	28.7	MM	28.7	0	8-May-17	11:15:06	8-May-17	100	1	1
7	170508G1_8	Standard	28.7	4.52	11563	11563	28.7	MM	28.7	0	8-May-17	11:27:31	8-May-17	100	1	1
8	170508G1_9	Standard	28.7	4.52	12314	12314	28.7	MM	28.7	0	8-May-17	11:39:57	8-May-17	100	1	1
9	170508G1_10	Standard	28.7	4.52	12585	12585	28.7	MM	28.7	0	8-May-17	11:52:23	8-May-17	100	1	1

Compound 10: 13C4-PFOS

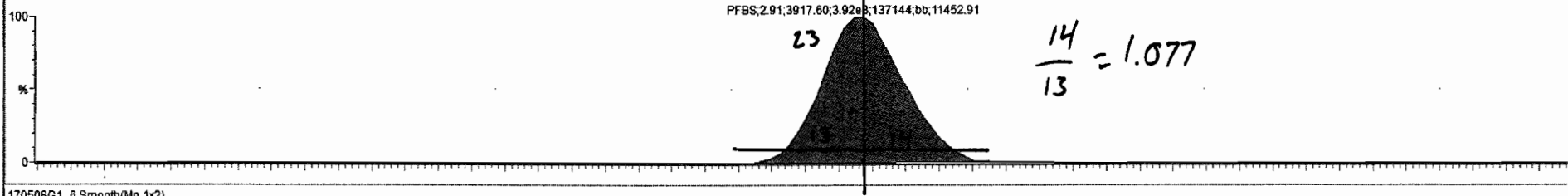
RPD	HIGH AREA	12585
	LOW AREA	10752
	RPD %	15.7

INSTRUCTIONS: IN TARGETLIXX, VERIFY YOU ARE USING THE LIST14 DW LAYOUT. RIGHT CLICK ON THE SUMMARY BOX AND SELECT "LIST BY COMPOUND". SELECT 13C2-PFOA, 13C4-PFOS OR D3-NMFOQA. CLICK ON EDIT. SELECT COPY CURRENT SUMMARY. PASTE IN CELL A1.

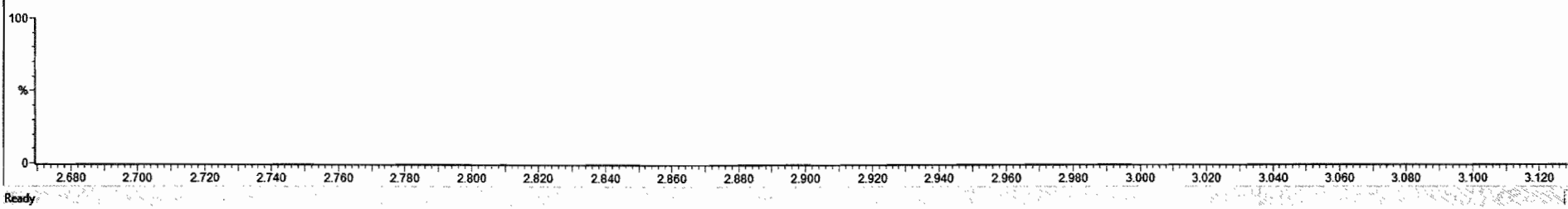
170508G1\_6 - ST170508G1-5 PFC CS1 17E0801 - PFC CS1 17E0801

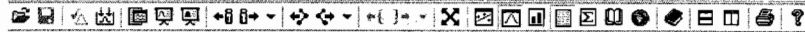
Name	Resp	RRF	wt/vol	RT	RA	n/y	Conc	%Rec	DL	EMPC
1 PFBS	3.92e3		1.000	2.91			10.2	115	0.00141	
2 PFHpA	8.93e3		1.000	3.75			11.6	116	0.00681	
3 PFHxS	4.64e3		1.000	3.86			10.3	112	0.00863	
4 PFOA	6.91e3		1.000	4.14			11.7	117	0.00445	
5 PFOS	1.45e3		1.000	4.52			10.9	117	0.348	
6 PFNA	1.31e4		1.000	4.46			11.6	116	0.00554	
7 13C2-PFHxA	3.47e3	0.40	1.000	3.28			11.6	116	0.00616	
8 13C2-PFDA	6.26e3	0.75	1.000	4.73			11.2	112	0.000896	
9 13C2-PFOA	7.49e3	1.00	1.000	4.14			10.0	100	0.0405	
10 13C4-PFOS	1.11e4	1.00	1.000	4.52			28.7	100	0.00109	

170508G1\_6 Smooth(Mn,1x2)  
PFC CS1 17E0801 ST170508G1-5 PFC CS1 17E0801



170508G1\_6 Smooth(Mn,1x2)  
PFC CS1 17E0801 ST170508G1-5 PFC CS1 17E0801

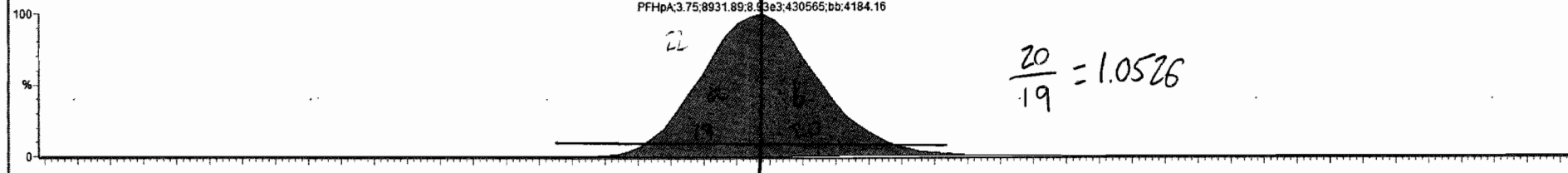




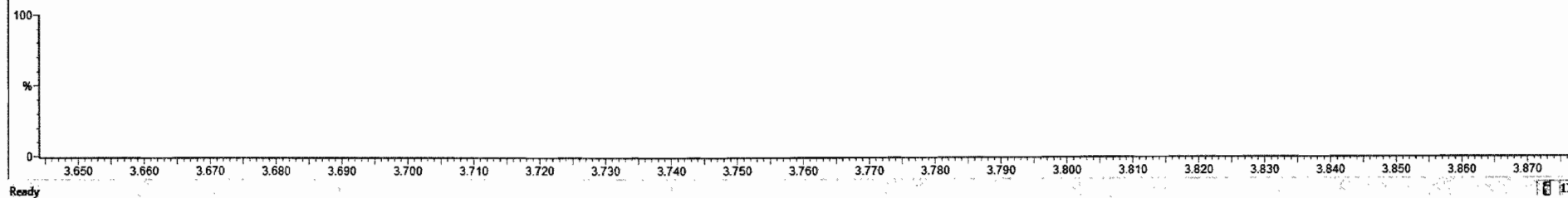
170508G1\_6 - ST170508G1-5 PFC CS1 17E0801 - PFC CS1 17E0801

Name	Resp	RRF	wi/vol	RT	RA	AY	Conc.	%Rec	DL	EMPC
1 PFBS	3.92e3		1.000	2.91			10.2	115		0.00141
2 PFHpA	8.32e5		1.000	3.75			11.6	118		0.00681
3 PFHxS	4.64e3		1.000	3.86			10.3	112		0.00863
4 PFOA	6.91e3		1.000	4.14			11.7	117		0.00445
5 PFOS	1.45e3		1.000	4.52			10.9	117		0.348
6 PFNA	1.31e4		1.000	4.46			11.6	116		0.00554
7 13C2-PFHxA	3.47e3	0.40	1.000	3.28			11.6	116		0.00618
8 13C2-PFDA	6.26e3	0.75	1.000	4.73			11.2	112		0.000896
9 13C2-PFOA	7.49e3	1.00	1.000	4.14			10.0	100		0.0405
10 13C4-PFOS	1.11e4	1.00	1.000	4.52			28.7	100		0.00109

170508G1\_6 Smooth(Mn, 1x2)  
PFC CS1 17E0801 ST170508G1-5 PFC CS1 17E0801



170508G1\_6 Smooth(Mn, 1x2)  
PFC CS1 17E0801 ST170508G1-5 PFC CS1 17E0801

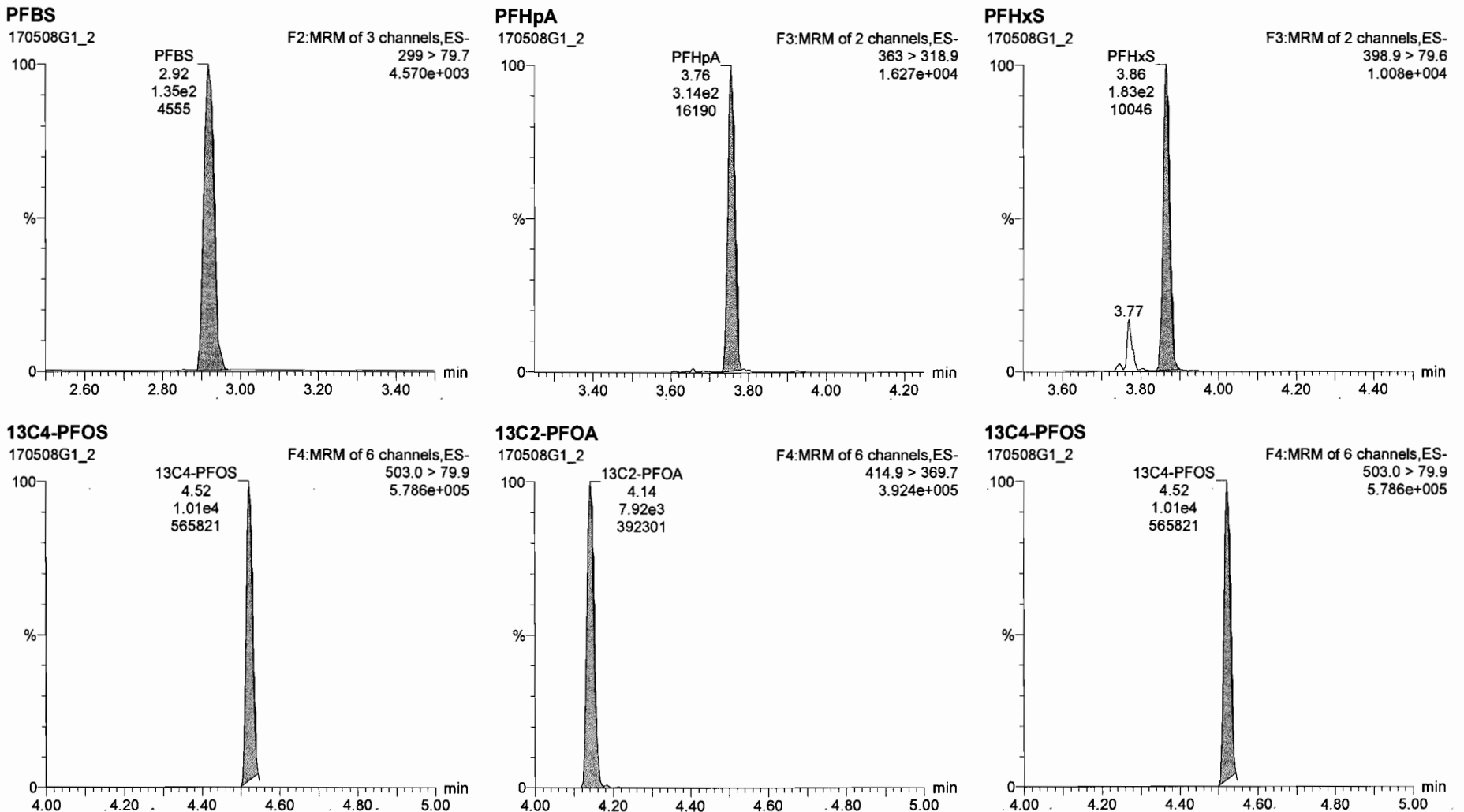


Dataset: Untitled

Last Altered: Monday, May 08, 2017 13:07:58 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

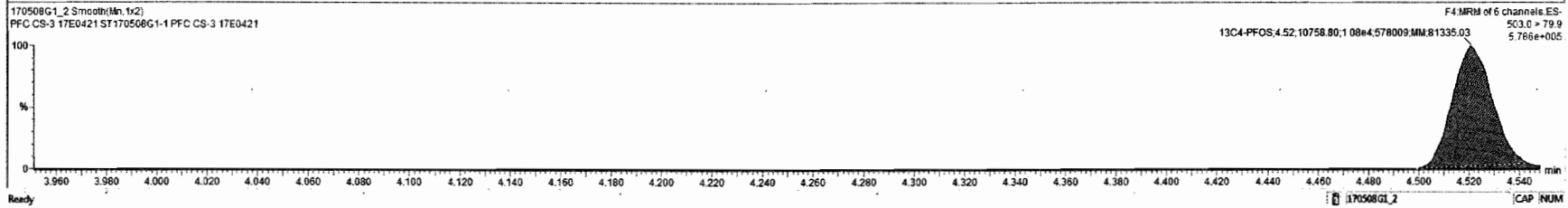
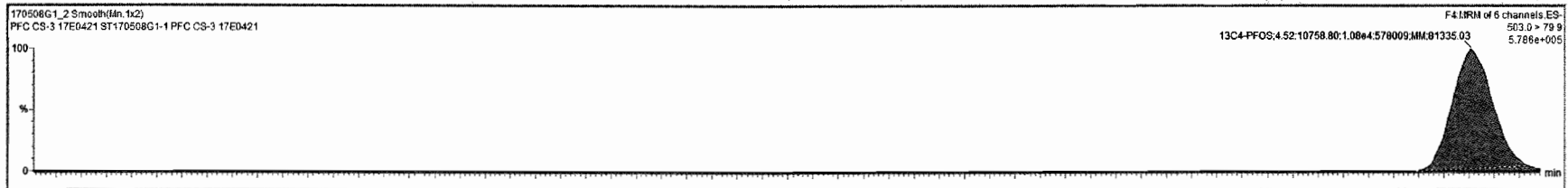
Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: 08 May 2017 13:07:58

Name: 170508G1\_2, Date: 08-May-2017, Time: 10:13:04, ID: ST170508G1-1 PFC CS-3 17E0421, Description: PFC CS-3 17E0421



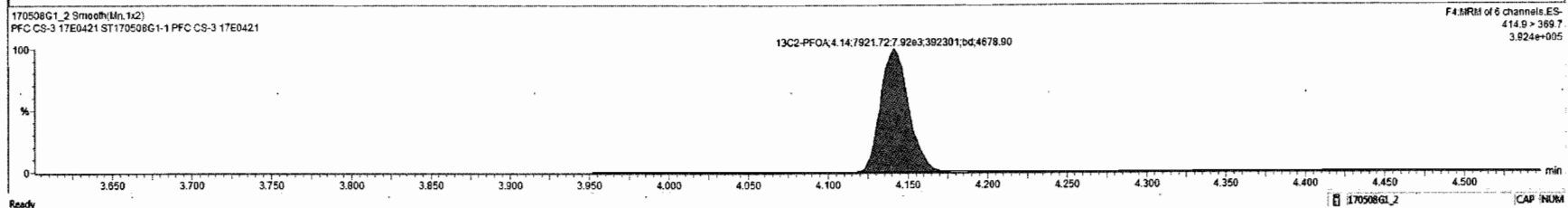
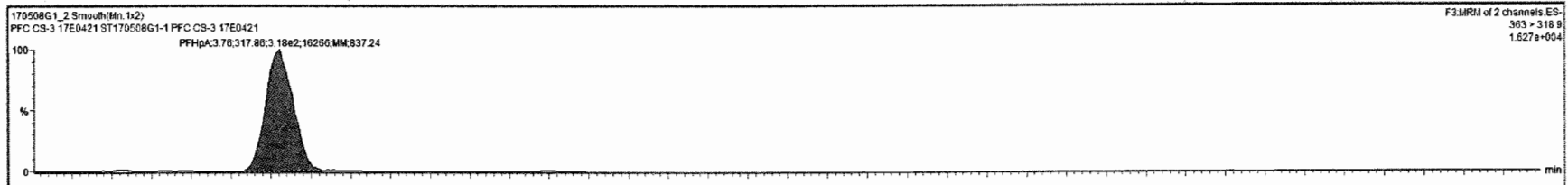
170508G1\_2 - ST170508G1-1 PFC CS-3 17E0421 - PFC CS-3 17E0421

DL	Name	Resp	RRF	wt/wsk	RT	RA	WY	Cont.	%Res	DL	EMPC
1	PfBS	1.35e2		1.000	2.92			0.325	73.6	0.000515	
2	PfHpA	3.18e2		1.000	3.76			0.369	73.7	0.00114	
3	PfTxS	1.83e2		1.000	3.86			0.456	99.3	0.00559	
4	PfOA	2.71e2		1.000	4.14			0.416	83.2	0.0247	
5	PfOS	4.46e1		1.000	4.52			0.459	86.8	0.0119	
6	PfNA	4.37e2		1.000	4.46			0.347	69.4	0.00387	
7	13C2-PfTxA	3.14e3	0.40	1.000	3.28			9.90	96.0	0.00845	
8	13C2-PfDA	5.97e3	0.75	1.000	4.73			10.1	101	0.00225	
9	13C2-PfOA	7.92e3	1.00	1.000	4.14			10.0	100	0.00534	
10	13C2-PfOS	1.00e4	1.00	1.000	4.52			20.7	110	0.00682	

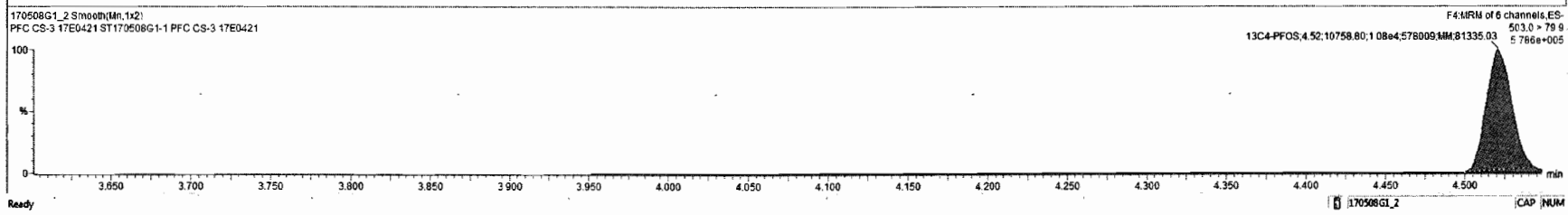
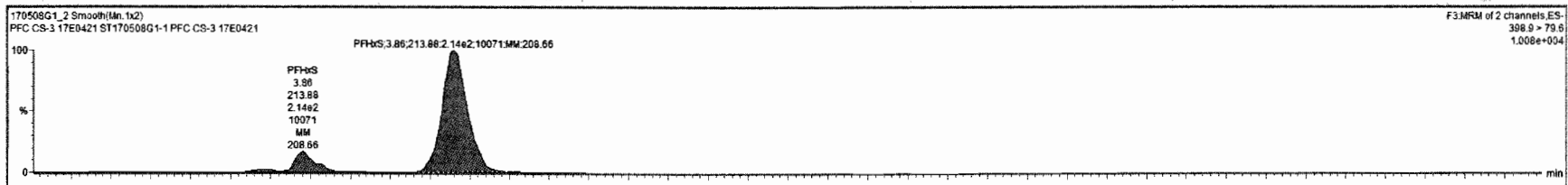




Name	Retp	RRF	WtPct	RT	RA	rvy	Conc.	%Rec	DL	EMPC
1 PFBS	1.35e2		1.000	2.92			0.345	78.0	0.000526	
2 PFHpA	3.16e2		1.000	3.78			0.369	73.7	0.00114	
3 PFHpS	1.63e2		1.000	3.86			0.483	106	0.00570	
4 PFQA	2.71e2		1.000	4.14			0.416	83.2	0.0247	
5 PFOS	4.46e1		1.000	4.52			0.496	105	0.0122	
6 PFNA	4.37e2		1.000	4.46			0.347	69.4	0.00367	
7 13C2-PFHpA	3.14e3	0.40	1.000	3.28			9.90	99.0	0.00845	
8 13C2-PFDA	5.97e3	0.75	1.000	4.73			10.1	101	0.00225	
9 13C2-PFOA	7.92e3	1.00	1.000	4.14			10.0	100	0.00534	
10 13C4-PFOS	1.01e4	1.00	1.000	4.52			28.7	100	0.000901	



Name	Resp	RFR	injVol	RT	RA	inj	Conc.	%Rec	DL	EMPC
1 PFBS	1.35e2		1.000	2.92			0.325	73.6	0.000515	
2 PFHpA	3.18e2		1.000	3.76			0.399	73.7	0.00114	
3 PFHxS	2.14e2		1.000	3.99			0.532	117	0.00557	
4 PFDA	2.71e2		1.000	4.14			0.416	83.2	0.0247	
5 PFOS	4.46e1		1.000	4.52			0.459	88.8	0.0119	
6 PFNA	4.37e2		1.000	4.46			0.347	69.4	0.00387	
7 13C2-PFHxA	3.14e3	0.40	1.000	3.26			9.90	99.0	0.00845	
8 13C2-PFDA	5.97e3	0.75	1.000	4.73			10.1	101	0.00225	
9 13C2-PFOA	7.92e3	1.00	1.000	4.14			10.0	100	0.00534	
10 13C4-PFOS	1.08e4	1.00	1.000	4.52			28.7	100	0.000882	



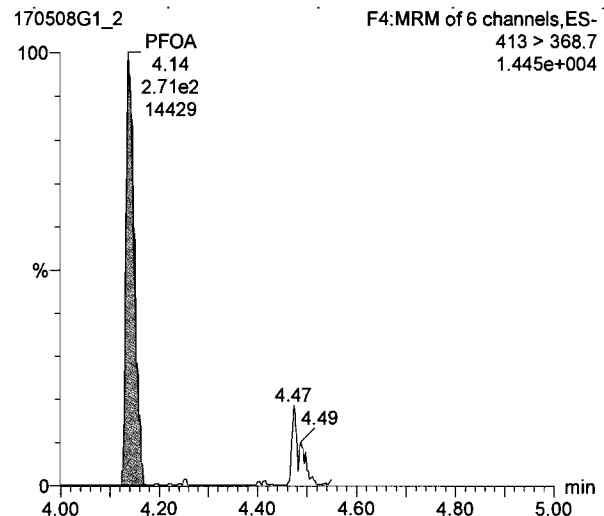
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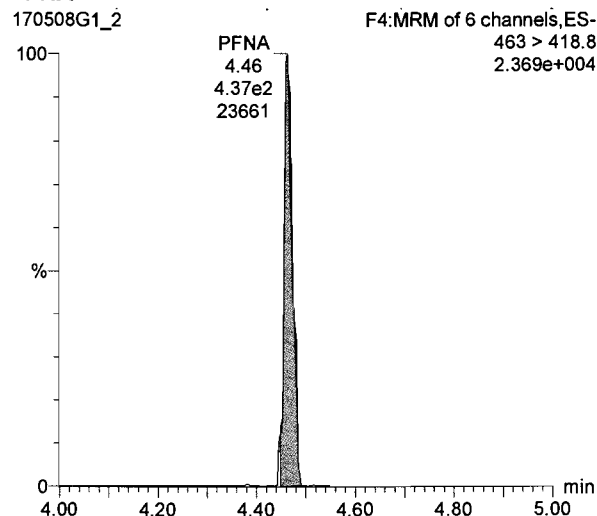
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Name: 170508G1\_2, Date: 08-May-2017, Time: 10:13:04, ID: ST170508G1-1 PFC CS-3 17E0421, Description: PFC CS-3 17E0421

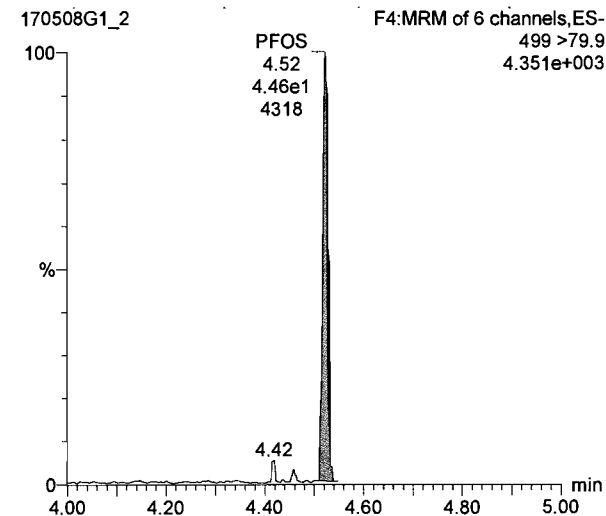
**PFOA**



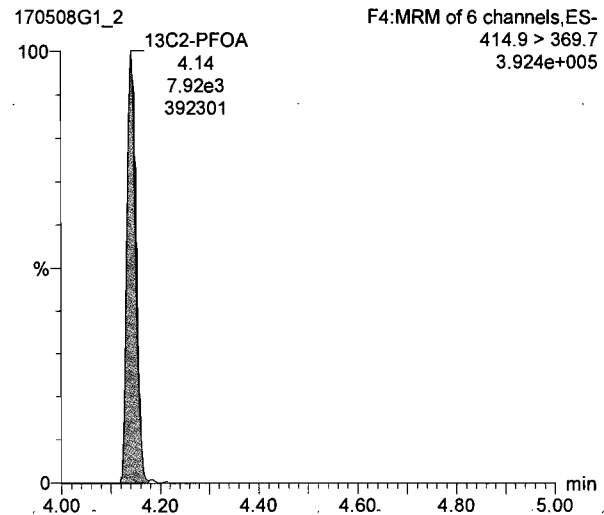
**PFNA**



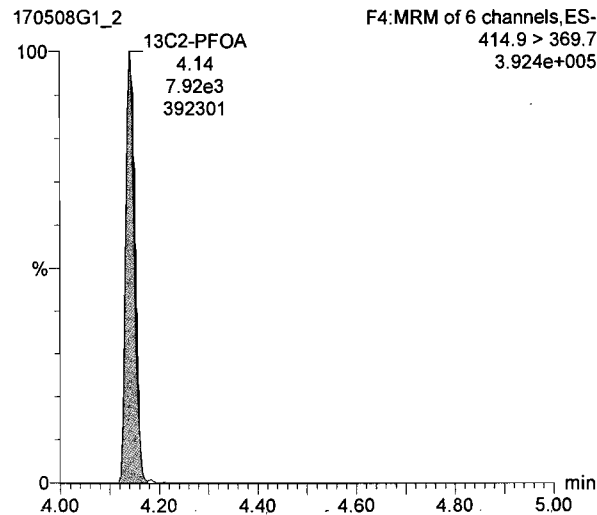
**PFOS**



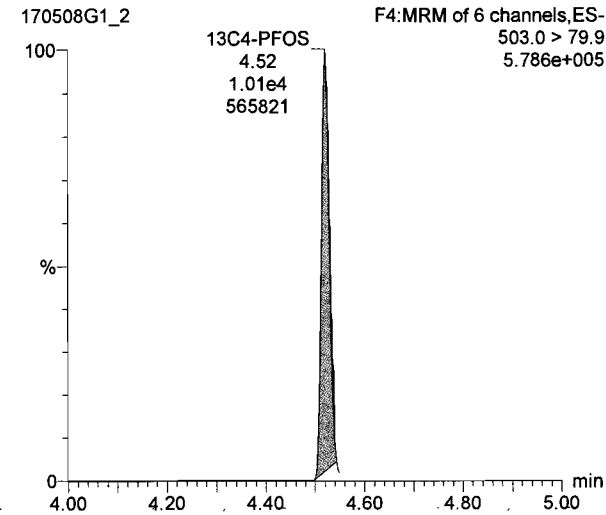
**13C2-PFOA**



**13C2-PFOA**

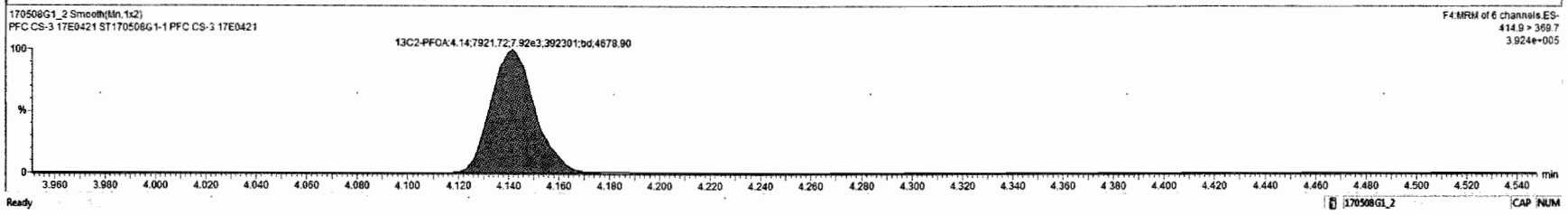
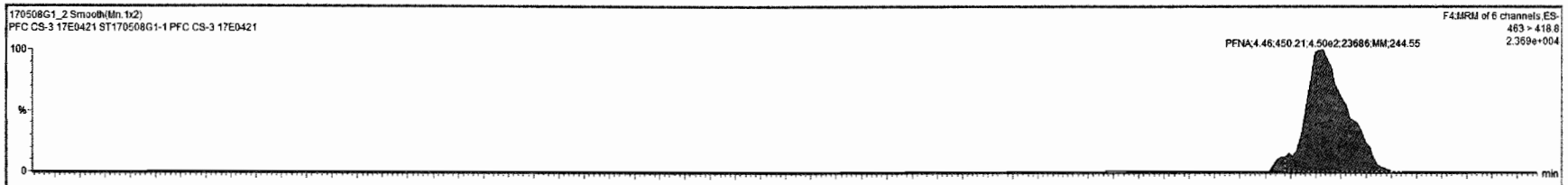


**13C4-PFOS**

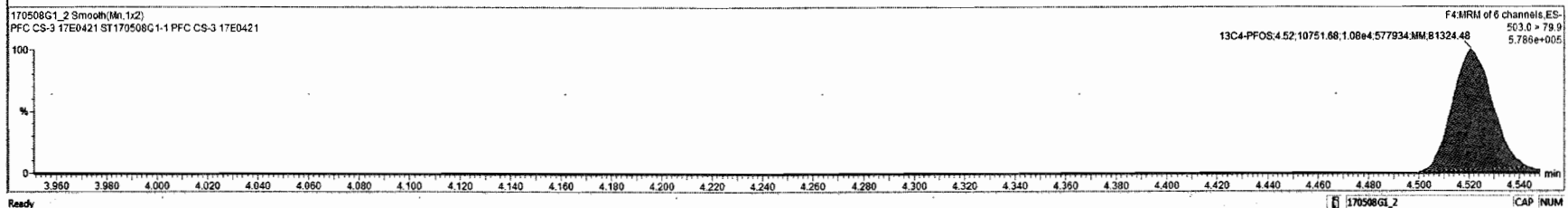
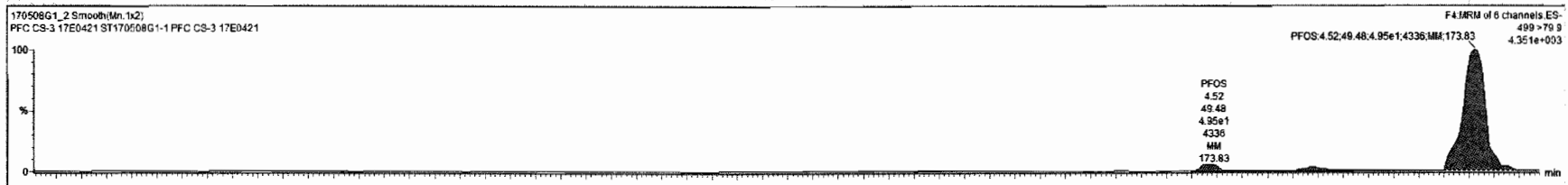


170508G1\_2 - ST170508G1-1 PFC CS-3 17E0421 - PFC CS-3 17E0421

Name	Resp	RRF	wt/vol	RT	RA	nty	Conc.	%Rec	DI	EMPC
1 PFBS	1.35e2		1.000	2.92			0.325	73.6	0.000515	
2 PFHpA	3.16e2		1.000	3.76			0.369	73.7	0.00114	
3 PFHxS	2.14e2		1.000	3.86			0.532	117	0.00557	
4 PFOA	2.71e2		1.000	4.14			0.416	83.2	0.0247	
5 PFOS	4.95e1		1.000	4.52			0.508	109	0.0119	
6 PFNA	4.59e2		1.000	4.65			0.357	71.4	0.00362	
7 13C2-PFHxA	3.14e3	8.48	1.000	3.28			9.90	99.0	0.00845	
8 13C2-PFDA	5.97e3	8.75	1.000	4.73			10.1	101	0.00225	
9 13C2-PFOA	7.92e3	1.08	1.000	4.14			10.0	100	0.00534	
10 13C4-PFOS	1.96e4	1.00	1.000	4.52			28.7	100	0.000882	



Sl	Name	Resp	RRE	wtVal	RT	RA	nly	Cont.	%Rec	DL	EMPC
1	PFBS	1.35e2		1.000	2.92			0.328	74.2	0.000519	
2	PFHpA	3.18e2		1.000	3.76			0.369	73.7	0.00114	
3	PFhS	2.14e2		1.000	3.86			0.534	117	0.00559	
4	PFOA	2.71e2		1.000	4.14			0.416	83.2	0.0247	
5	PFOS	4.95e1		1.000	4.52			0.475	102	0.0111	
6	PFNA	4.58e2		1.000	4.46			0.357	71.4	0.00387	
7	13C2-PFHxA	3.14e3	0.40	1.000	3.26			9.90	99.0	0.00845	
8	13C2-PFDA	5.97e3	0.75	1.000	4.73			10.1	101	0.00225	
9	13C2-PFOA	7.92e3	1.00	1.000	4.14			10.0	100	0.00534	
10	13C4-PFOS	1.08e4	1.00	1.000	4.52			28.7	100	0.00082	



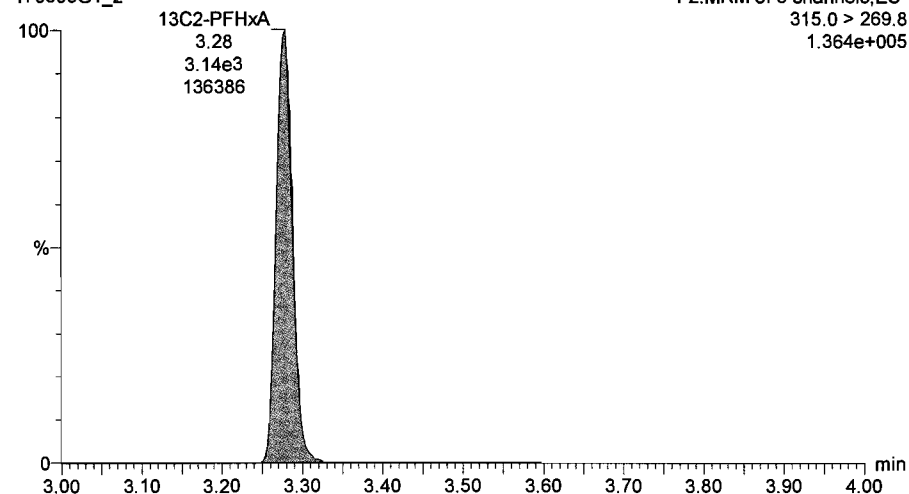
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Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_2, Date: 08-May-2017, Time: 10:13:04, ID: ST170508G1-1 PFC CS-3 17E0421, Description: PFC CS-3 17E0421

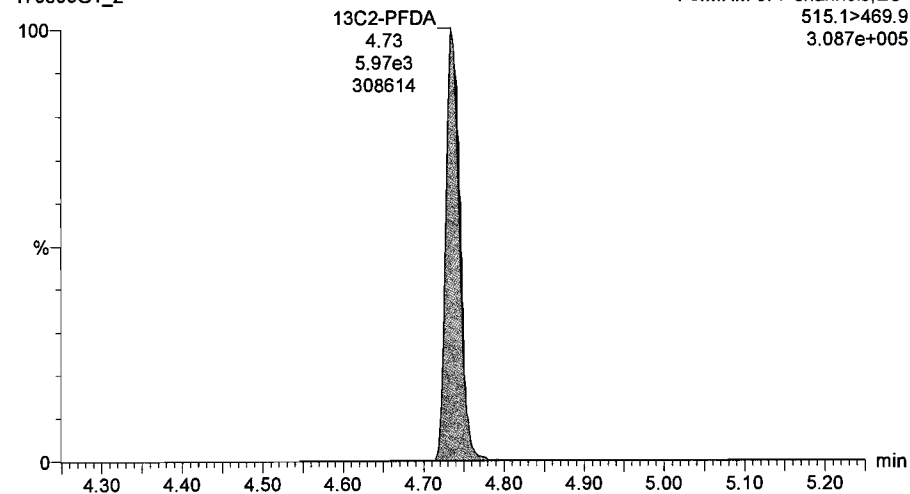
**13C2-PFHxA**

170508G1\_2



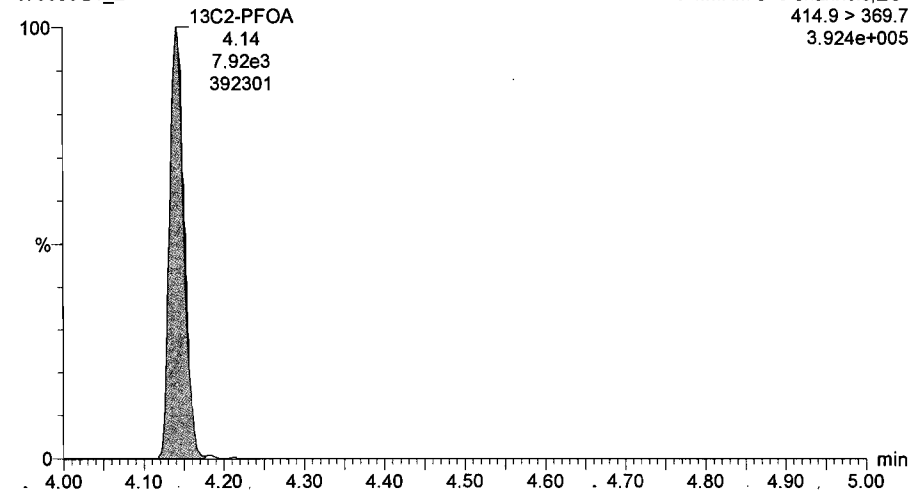
**13C2-PFDA**

170508G1\_2



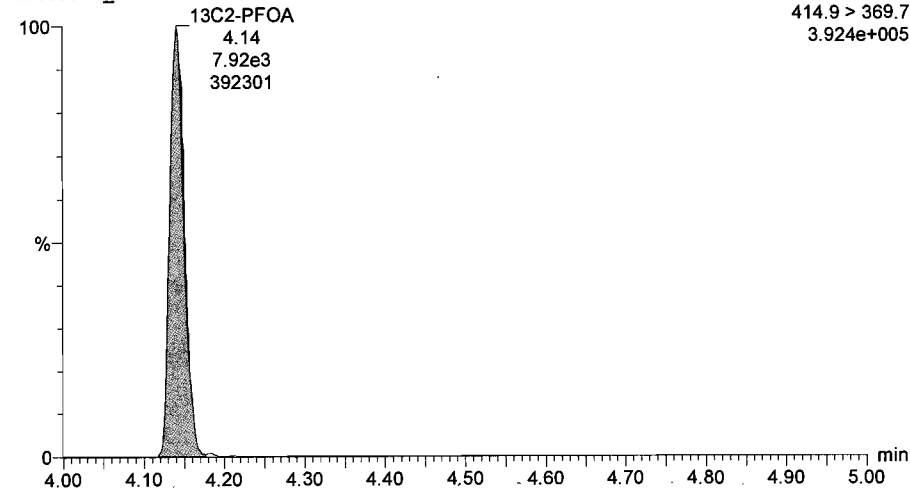
**13C2-PFOA**

170508G1\_2



**13C2-PFOA**

170508G1\_2

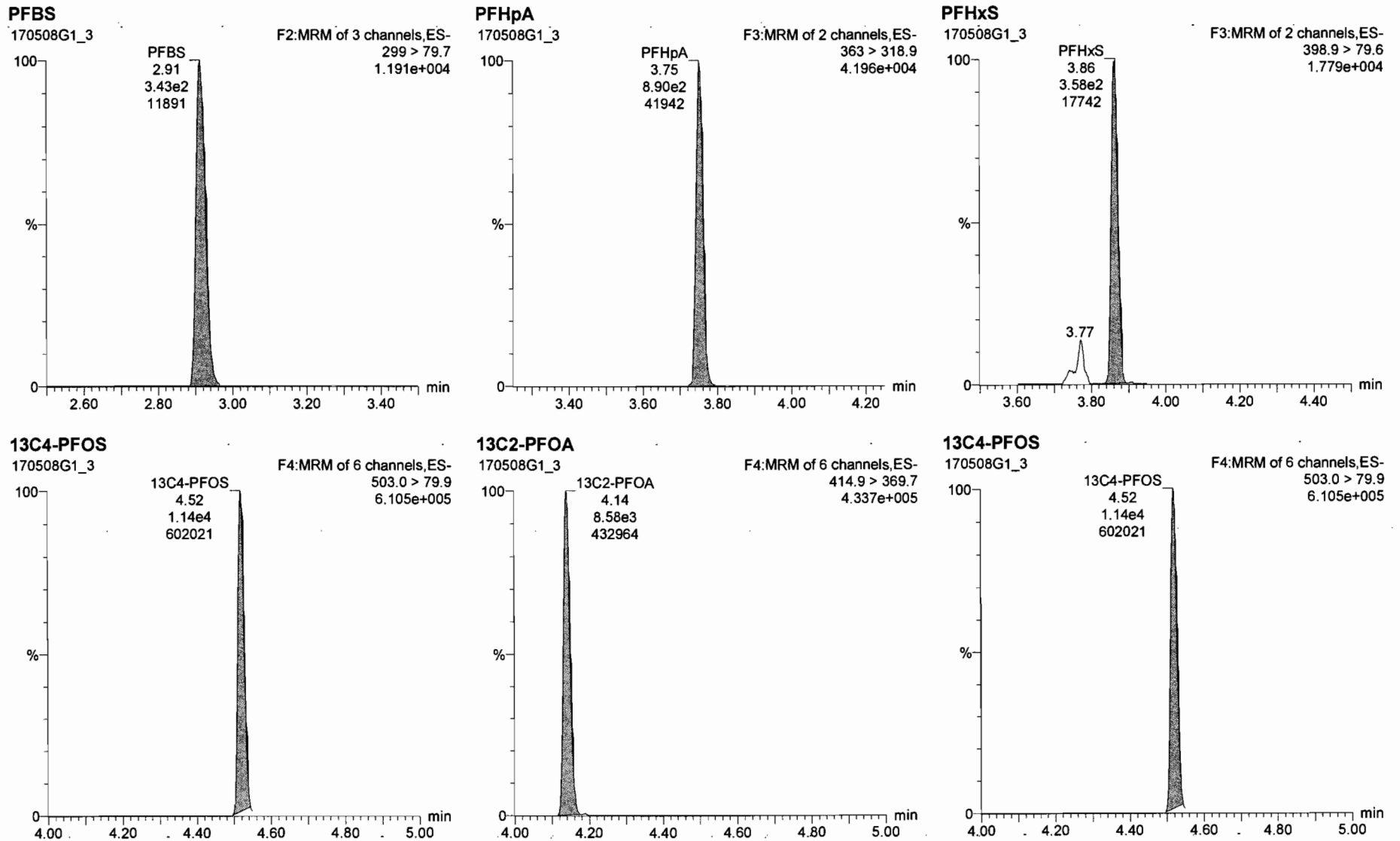


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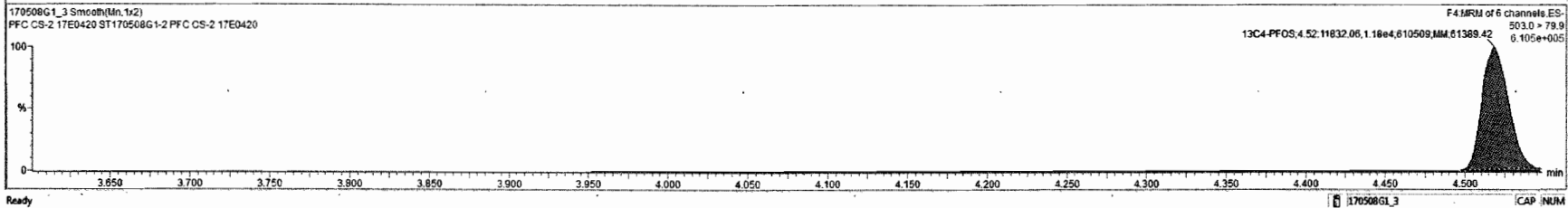
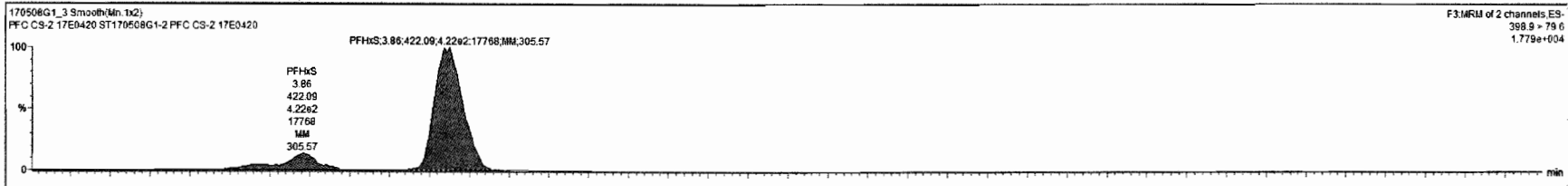
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Name: 170508G1\_3, Date: 08-May-2017, Time: 10:25:26, ID: ST170508G1-2 PFC CS-2 17E0420, Description: PFC CS-2 17E0420



170508G1 3 - ST170508G1-2 PFC CS-2 17E0420 - PFC CS-2 17E0420

1	Name	Resp	RRF	Wt/val	RT	RA	WV	Conc	%Rec	DL	EMPC
1	PFBS	3.43e2		1.000	2.91			0.757	85.6	0.000918	
2	PFHxA	8.90e2		1.000	3.75			0.956	95.6	0.000396	
3	PFHxS	4.22e2		1.000	3.86			0.990	100	0.00030	
4	PFOA	6.84e2		1.000	4.14			0.972	97.2	0.0524	
5	PFOS	1.31e2		1.000	4.52			1.14	123	0.134	
6	PFNA	1.15e3		1.000	4.46			0.846	84.6	0.09162	
7	13C2-PFHxA	3.27e3	0.48	1.000	3.28			3.49	94.9	0.00540	
8	13C2-PFOA	5.88e3	0.75	1.000	4.73			9.18	91.8	0.09570	
9	13C2-PFOA	8.58e3	1.08	1.000	4.14			10.0	100	0.0272	
10	13C4-PFOS	1.18e4	1.08	1.000	4.52			28.7	100	0.00117	



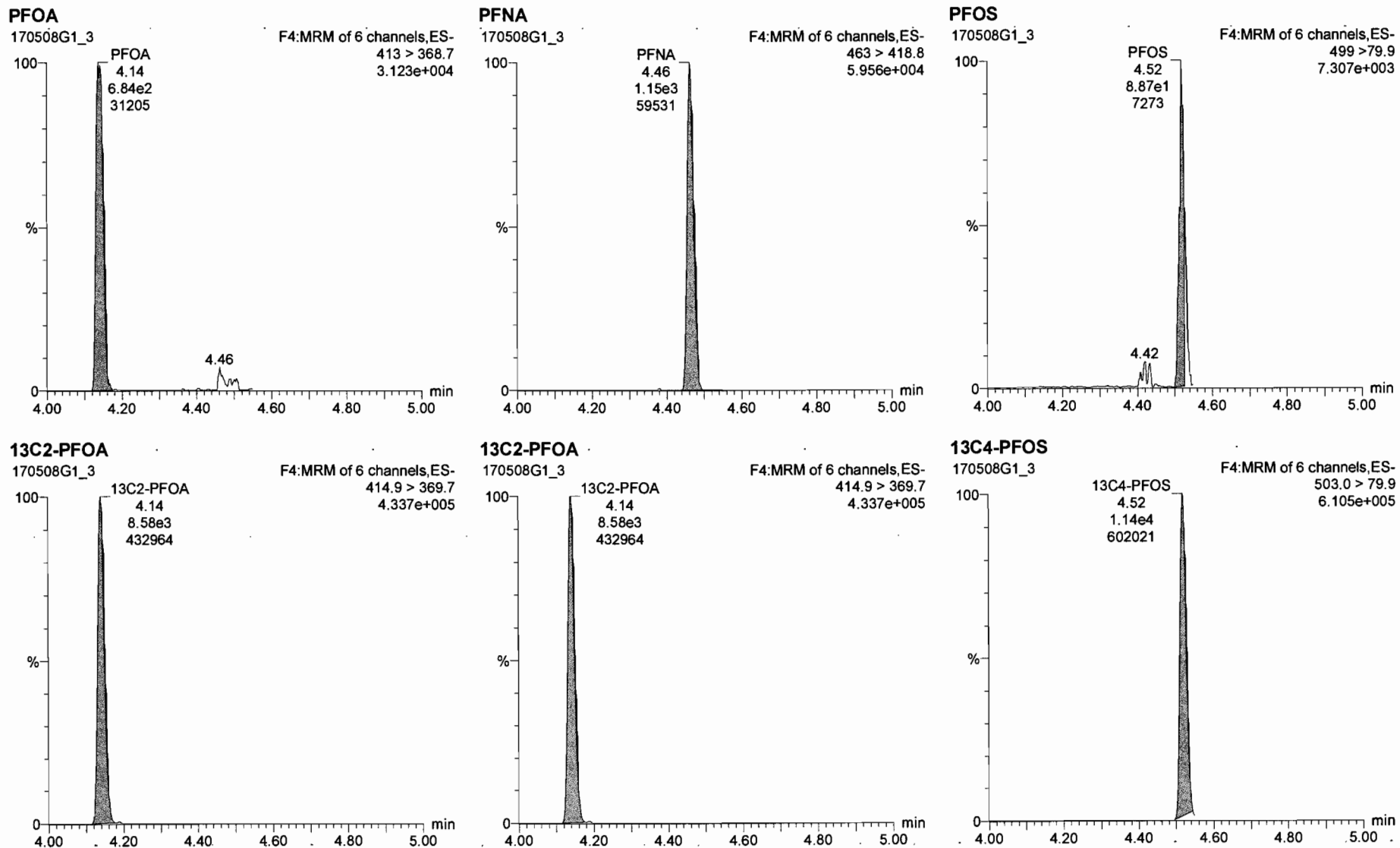


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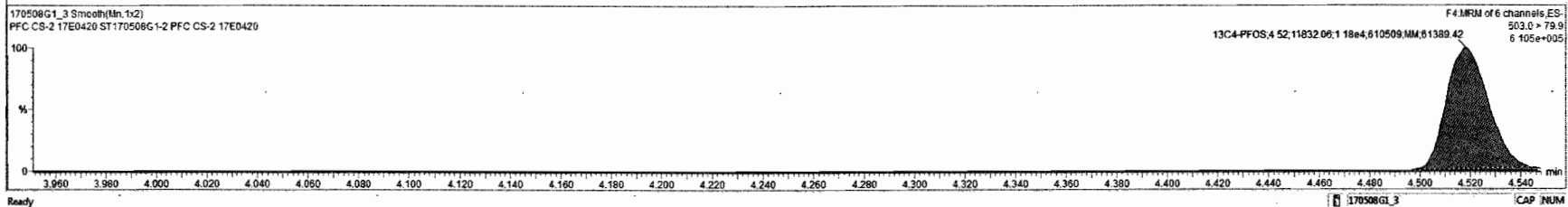
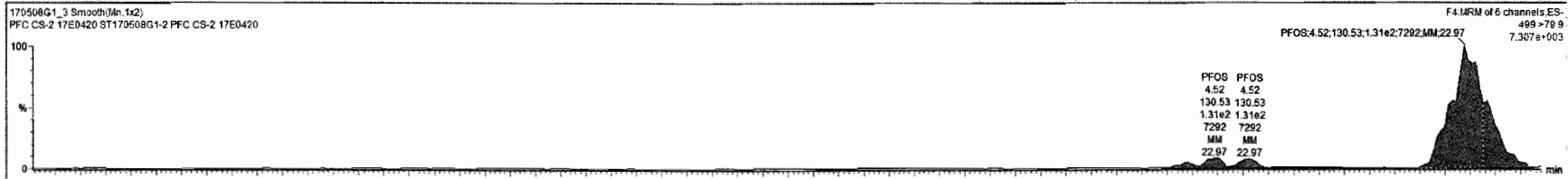
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Name: 170508G1\_3, Date: 08-May-2017, Time: 10:25:26, ID: ST170508G1-2 PFC CS-2 17E0420, Description: PFC CS-2 17E0420



170508G1\_3 - ST170508G1-2 PFC CS-2 17E0420 - PFC CS-2 17E0420

#	Name	Ret	RNF	WPeak	RT	RA	WV	Comp	%Rec	DL	EMPC
1	PFBS	3.43e2		1.000	2.91			0.757	85.6	0.000918	
2	PFHpA	8.90e2		1.000	3.75			0.856	85.6	0.000288	
3	PFHxS	4.22e2		1.000	3.86			0.960	100	0.00636	
4	PFOA	6.84e2		1.000	4.14			0.972	87.2	0.0024	
5	PFOS	1.31e2		1.000	4.52			1.314	122	0.0334	
6	PFNA	1.15e3		1.000	4.46			0.940	84.6	0.00152	
7	13C2-PFHxA	3.27e3	0.40	1.000	3.28			9.49	94.9	0.00540	
8	13C2-PFDA	5.68e3	0.75	1.000	4.73			9.18	91.8	0.00570	
9	13C2-PFOA	8.58e3	1.00	1.000	4.14			10.0	100	0.0272	
10	13C4-PFOS	1.18e4	1.00	1.000	4.52			28.7	100	0.00117	



Dataset: Untitled

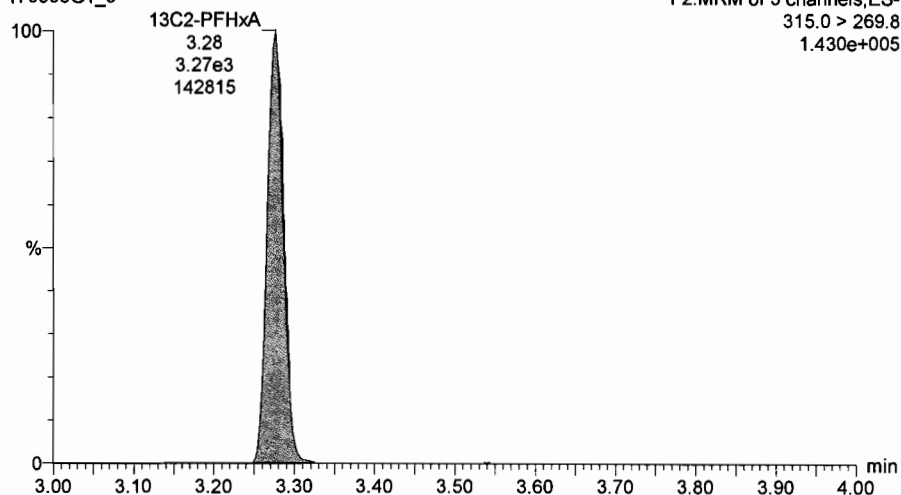
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Name: 170508G1\_3, Date: 08-May-2017, Time: 10:25:26, ID: ST170508G1-2 PFC CS-2 17E0420, Description: PFC CS-2 17E0420

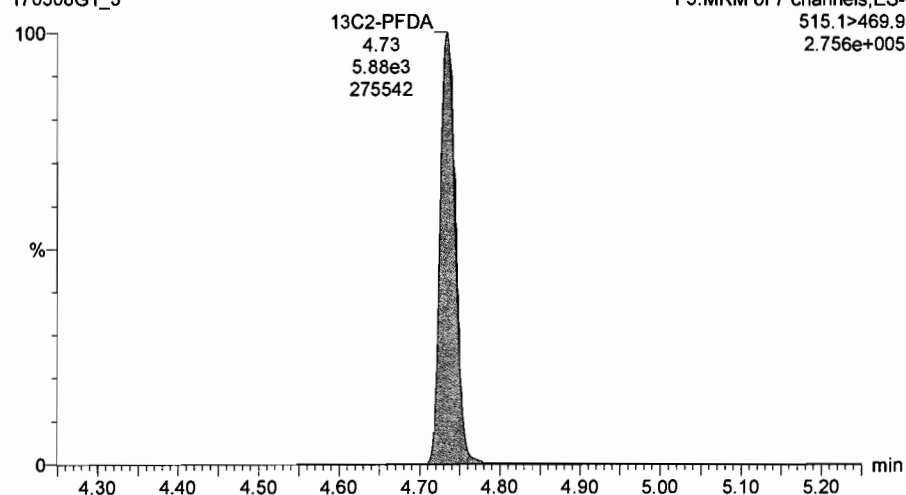
**13C2-PFHxA**

170508G1\_3



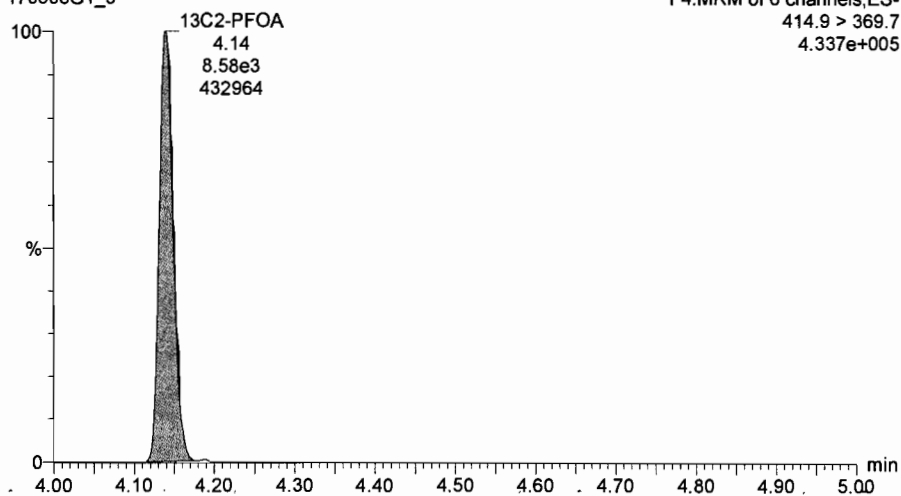
**13C2-PFDA**

170508G1\_3



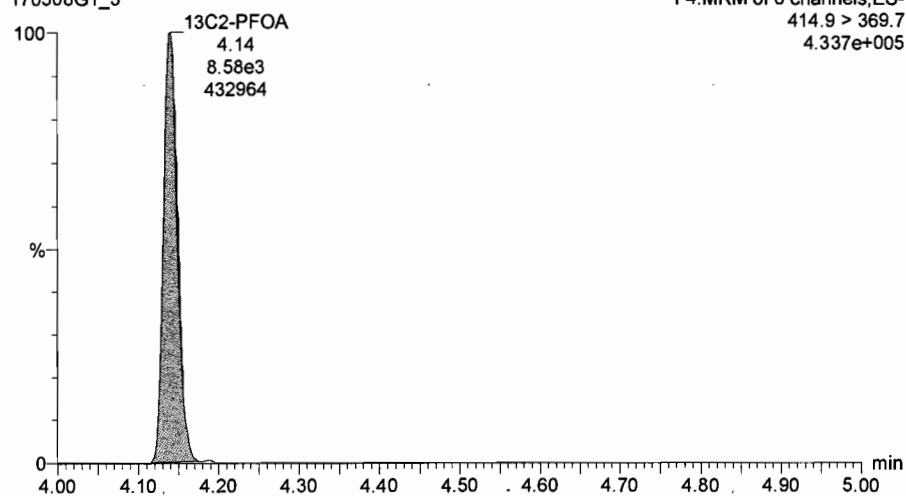
**13C2-PFOA**

170508G1\_3



**13C2-PFOA**

170508G1\_3

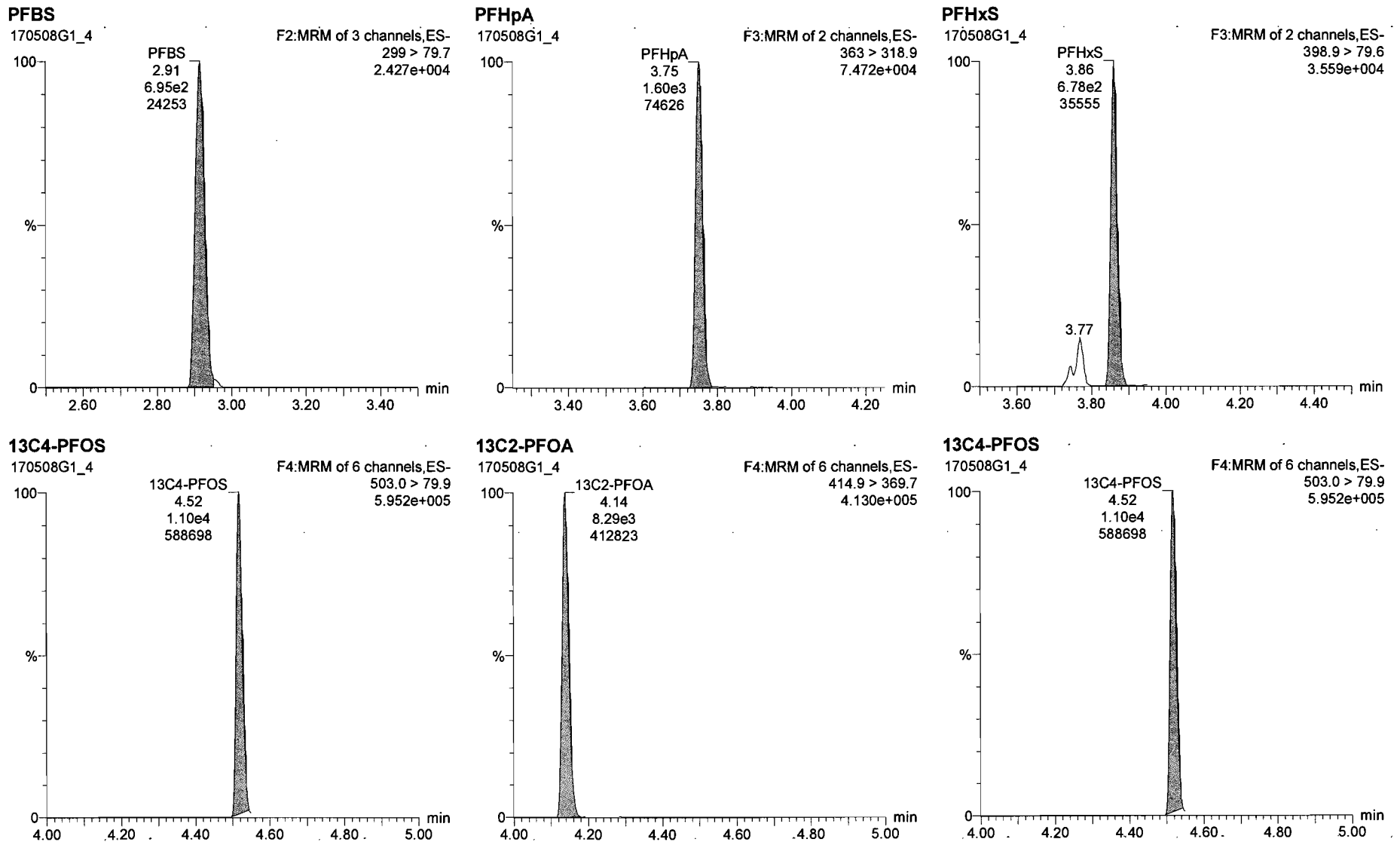


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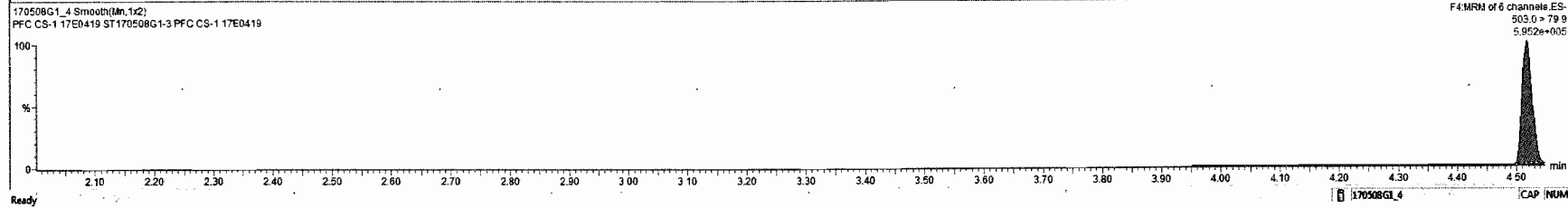
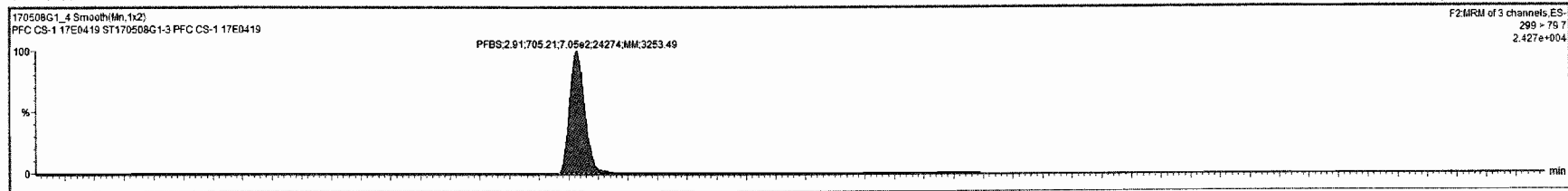
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Name: 170508G1\_4, Date: 08-May-2017, Time: 10:37:49, ID: ST170508G1-3 PFC CS-1 17E0419, Description: PFC CS-1 17E0419

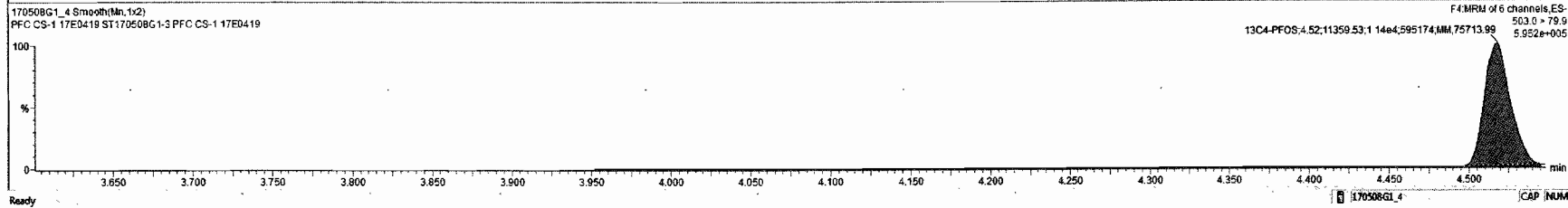
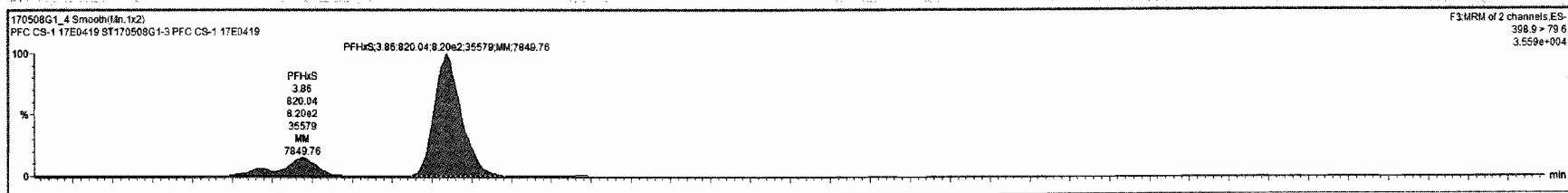


170508G1\_4 - ST170508G1-3 PFC CS-1 17E0419 - PFC CS-1 17E0419

Name	Mass	RRF	width	RT	RA	ply	Conc.	Nbr	IN	EMPC
1 PFBS	70521		0.600	2.91			1.63	32.3	0.000810	
2 PFHpA	16043		1.000	3.75			1.79	89.3	0.00161	
3 PFHxS	67842		1.000	3.86			1.61	88.6	0.000510	
4 PFDA	12243		1.000	4.14			1.80	89.8	0.0358	
5 PFOS	20042		1.000	4.51			1.83	88.3	0.0381	
6 PFNA	25043		1.000	4.46			1.91	95.5	0.00163	
7 13C2-PFHzA	32143	0.40	1.000	3.27			9.64	96.4	0.000883	
8 13C2-PFDA	58043	0.75	1.000	4.73			9.34	93.4	0.0124	
9 13C2-PFOA	82943	1.00	1.000	4.14			10.0	100	0.00611	
10 13C4-PFOS	11444	1.00	1.000	4.52			28.7	100	0.000948	



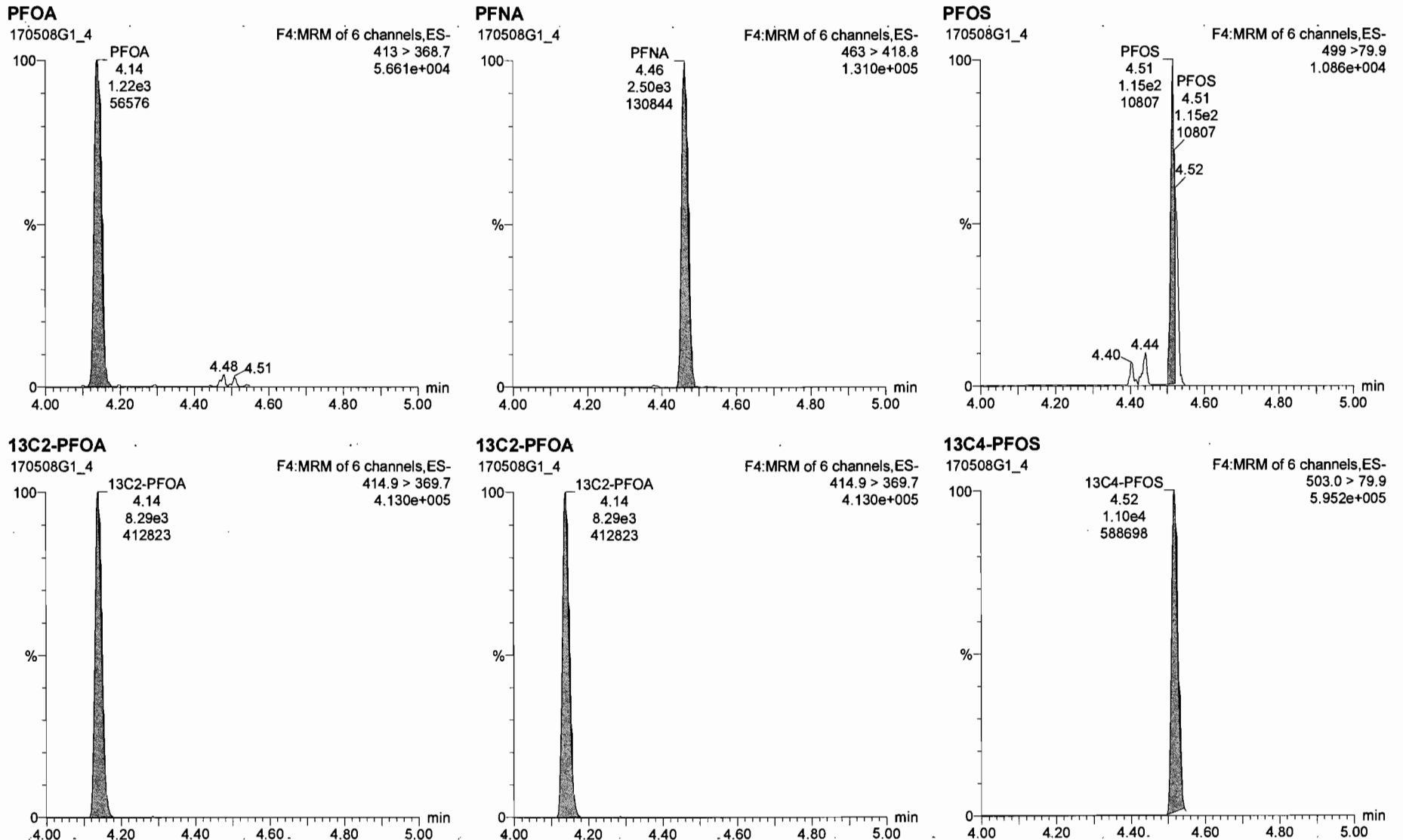
Name	Resp	RRF	WtVol	RF	RA	Wt	Conc	%Rec	DL	EMPC
PFBS	7.05e2		1.000	2.91			1.63	92.0		0.000816
PFHpA	1.60e3		1.000	3.75			1.79	69.3		0.00181
PFHxS	8.20e2		1.000	3.86			1.93	100		0.00252
PFOA	1.22e3		1.000	4.14			1.80	89.8		0.0258
PFOS	2.00e2		1.000	4.51			1.83	98.3		0.0381
PFNA	2.50e3		1.000	4.46			1.91	95.5		0.00163
13C2-PFHxA	3.21e3	0.40	1.000	3.27			9.64	96.4		0.00283
13C2-PFOA	5.80e3	0.75	1.000	4.75			9.34	93.4		0.0124
13C2-PFOA	8.29e3	1.00	1.000	4.14			10.0	100		0.00511
13C4-PFOS	1.14e4	1.00	1.000	4.52			28.7	100		0.000948



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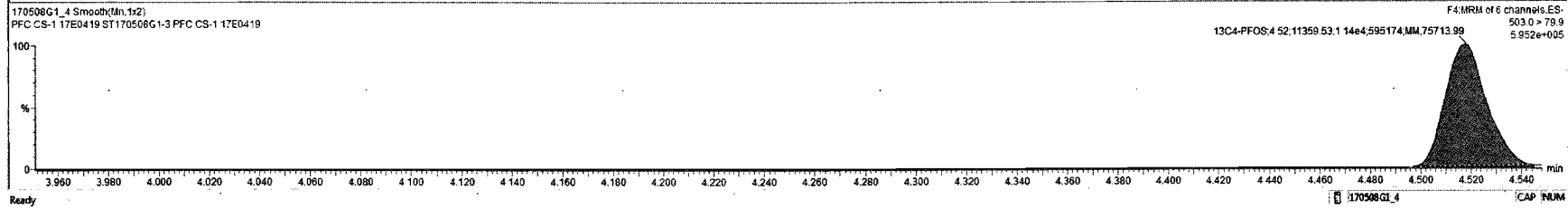
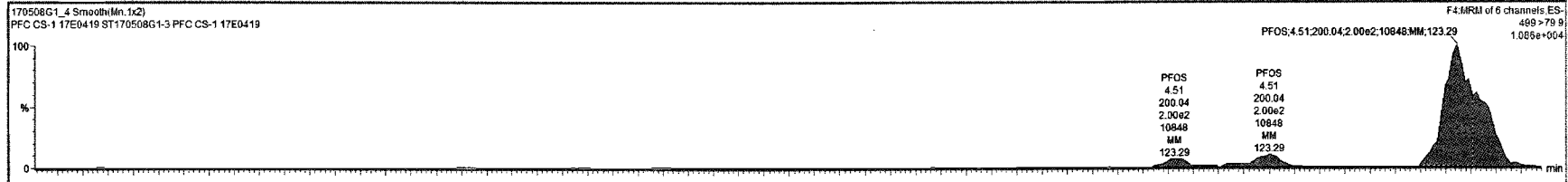
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Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_4, Date: 08-May-2017, Time: 10:37:49, ID: ST170508G1-3 PFC CS-1 17E0419, Description: PFC CS-1 17E0419



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Peak	Name	Resp	RRF	wtVal	RT	RA	ply	Conc	%Rec	DL	EMPC
1	PFBS	7.05e2		1.000	2.91			1.63	92.0	0.000816	
2	PFHpA	1.60e3		1.000	3.75			1.79	89.3	0.001611	
3	PFHxS	8.20e2		1.000	3.86			1.93	106	0.000504	
4	PFDA	1.22e3		1.000	4.14			1.89	89.8	0.0358	
5	PFOS	2.00e2		1.000	4.51			1.83	96.3	0.0361	
6	PFNA	2.50e3		1.000	4.46			1.91	95.5	0.00163	
7	13C2-PFHpA	3.21e3	0.40	1.000	3.27			9.64	96.4	0.000863	
8	13C2-PFDA	5.80e3	0.75	1.000	4.73			9.34	85.4	0.0124	
9	13C4-PFDA	8.29e3	1.00	1.000	4.14			10.0	100	0.00611	
10	13C4-PFOS	1.14e4	1.00	1.000	4.52			28.7	100	0.000948	





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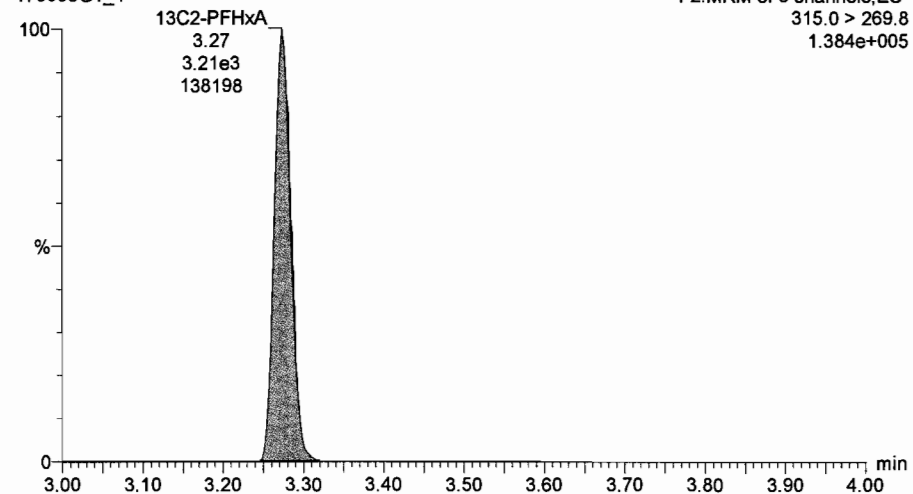
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Name: 170508G1\_4, Date: 08-May-2017, Time: 10:37:49, ID: ST170508G1-3 PFC CS-1 17E0419, Description: PFC CS-1 17E0419

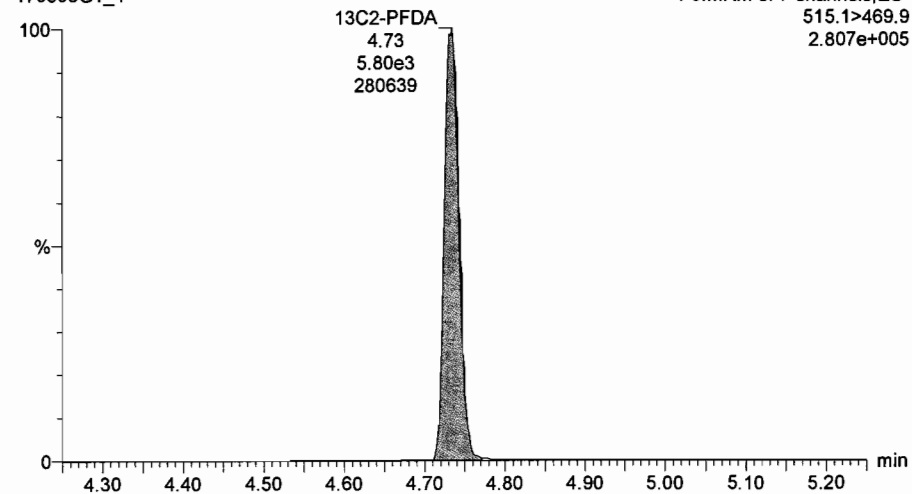
**13C2-PFHxA**

170508G1\_4



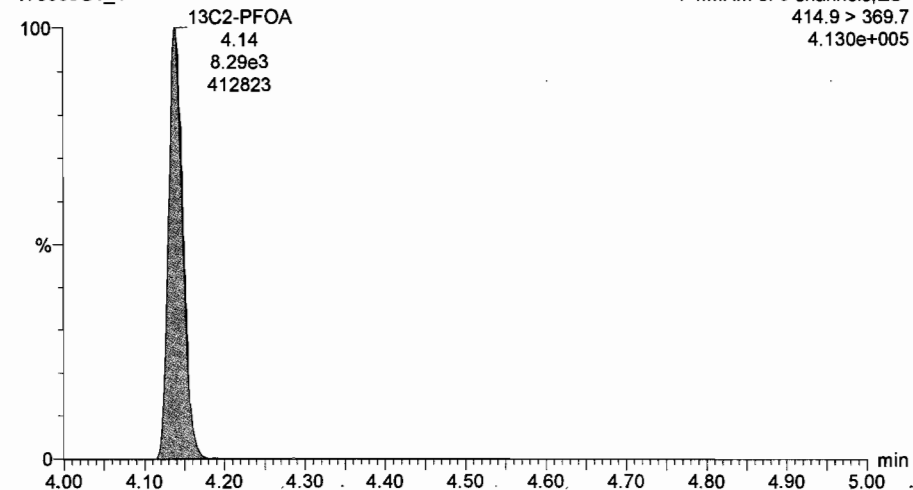
**13C2-PFDA**

170508G1\_4



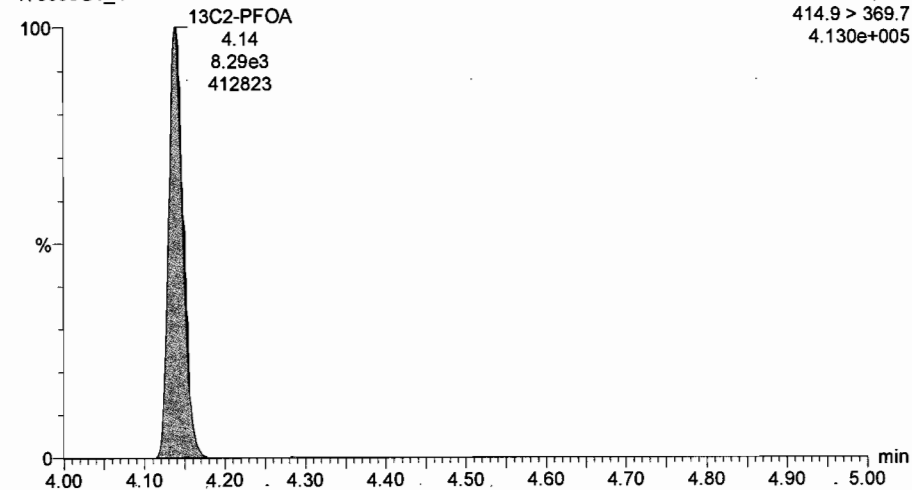
**13C2-PFOA**

170508G1\_4



**13C2-PFOA**

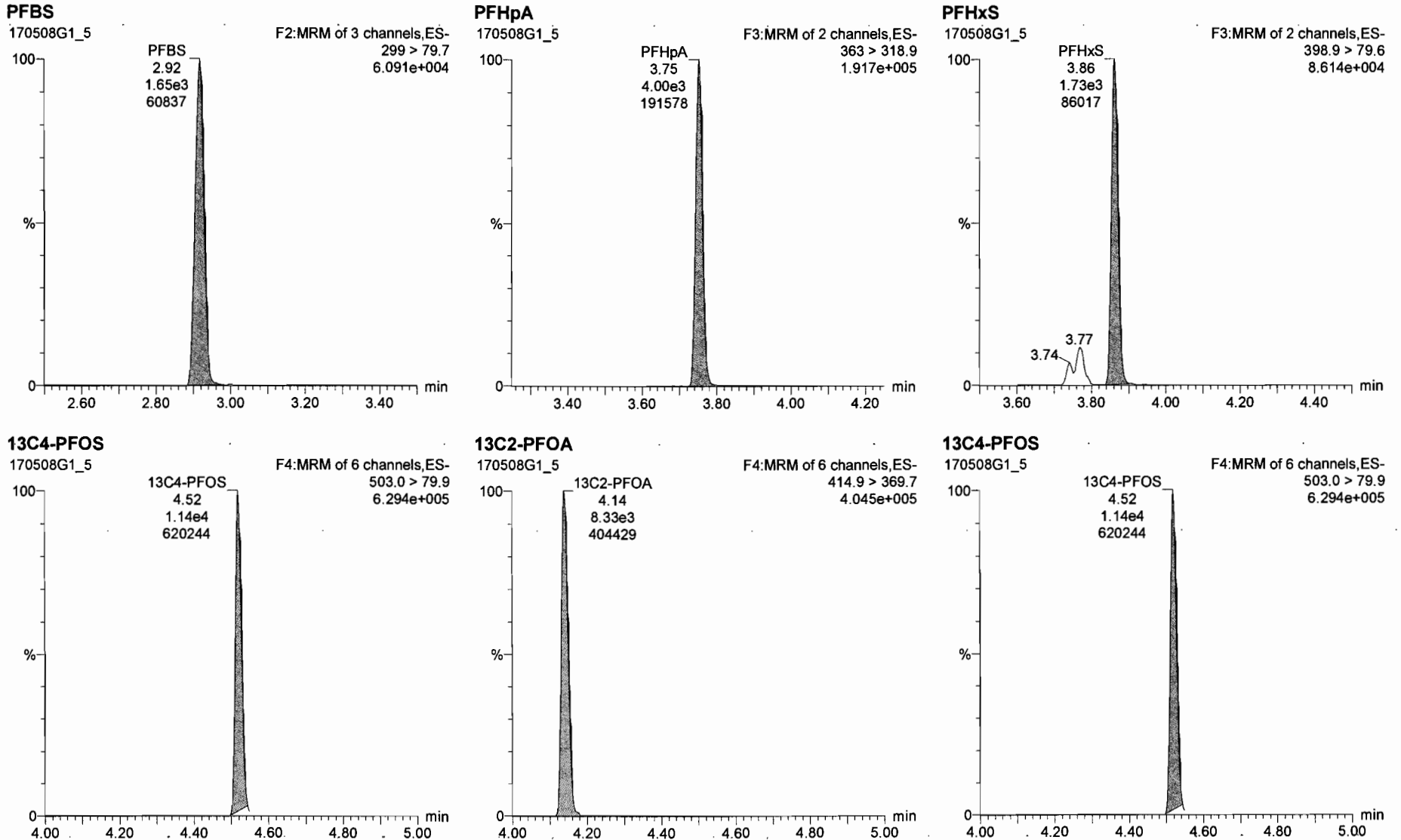
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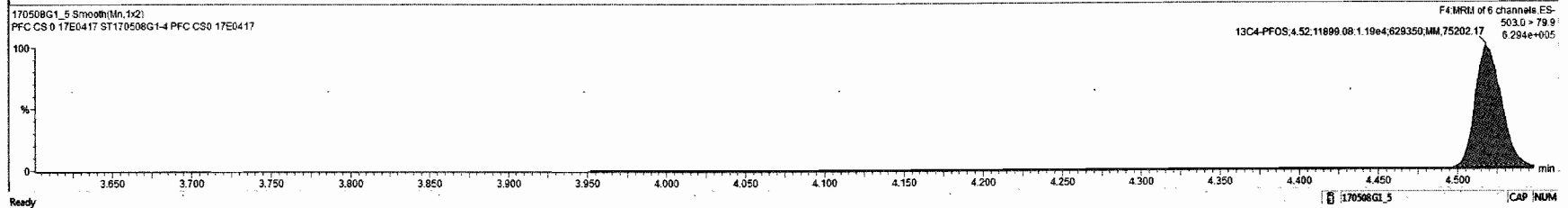
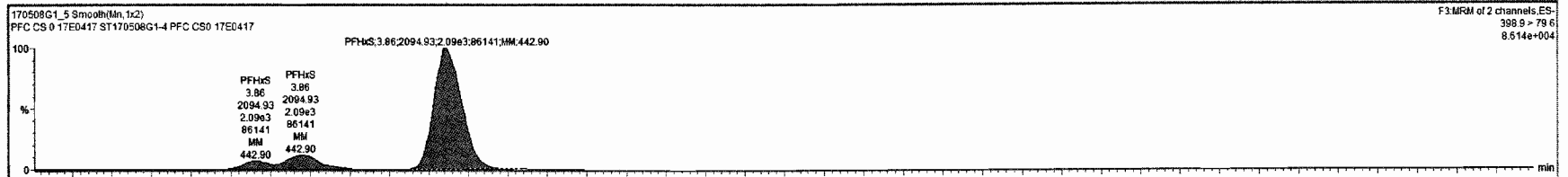
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Name: 170508G1\_5, Date: 08-May-2017, Time: 10:50:15, ID: ST170508G1-4 PFC CS0 17E0417, Description: PFC CS 0 17E0417



170508G1\_5 - ST170508G1-4 PFC CS0 17E0417 - PFC CS 0 17E0417

#	Name	Resp	RRF	IntVol	RT	RA	Qty	Calc	NRec	DI	EMPC
1	PFBS	1.85e3	1.000	2.92	3.68			83.2		0.00156	
2	PFHpA	4.00e1	1.000	3.75	4.49			89.9		0.00350	
3	PFOS	2.09e3	1.000	3.86	4.86			102		0.00200	
4	PFDA	3.06e3	1.000	4.14	4.54			90.9		0.0197	
5	PFOS	5.56e2	1.000	4.52	4.91			106		0.0648	
6	PFNA	6.08e3	1.000	4.46	4.68			93.6		0.107	
7	13C2-PFHxA	3.19e3	0.40	1.000	3.27			95.3		0.80843	
8	13C2-PFDA	6.29e3	0.75	1.000	4.73			102		0.0110	
9	13C2-PFOA	8.33e3	1.00	1.000	4.14			100		0.00385	
10	13C4-PFOS	1.19e4	1.00	1.000	4.52			28.7		0.000954	

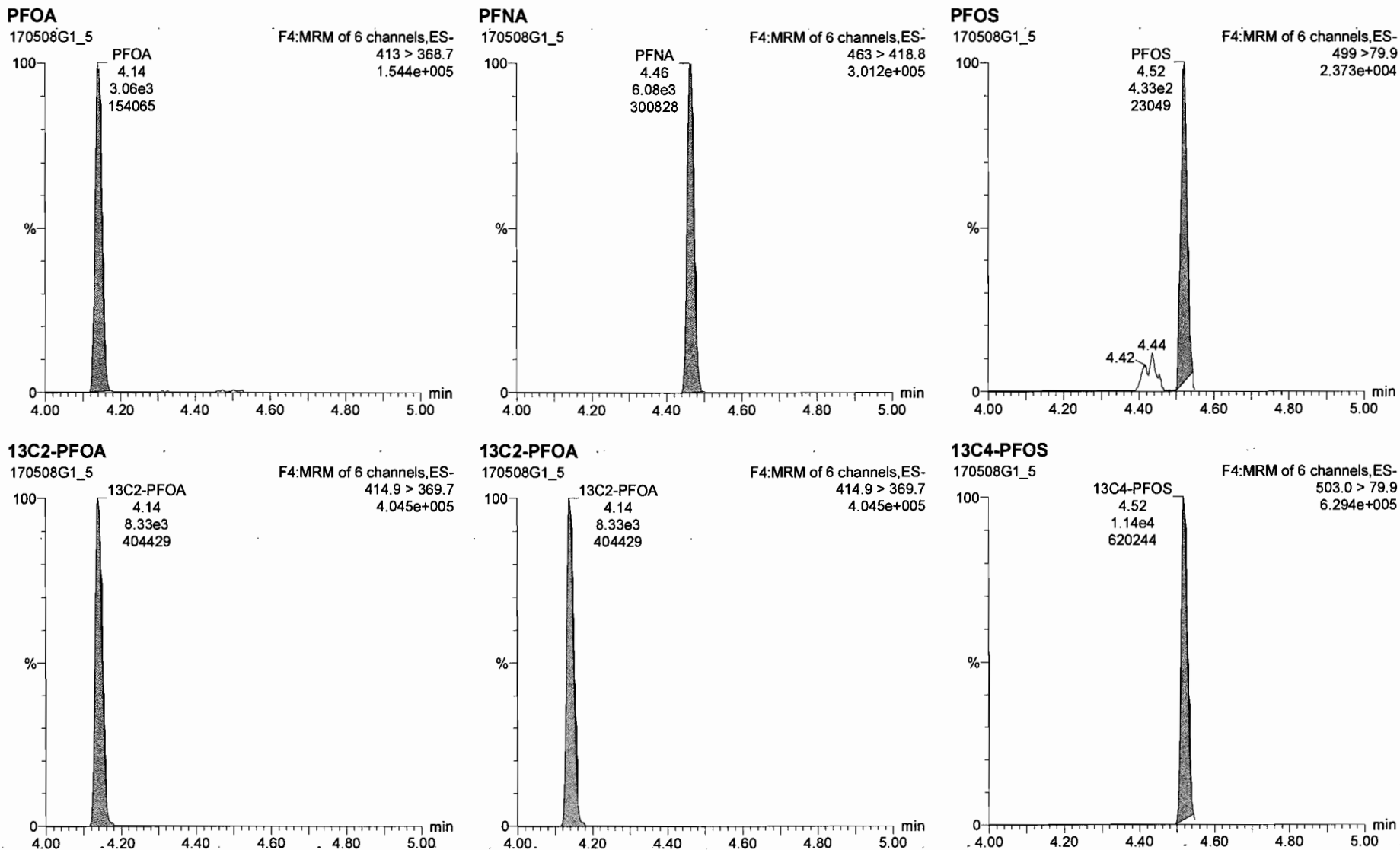


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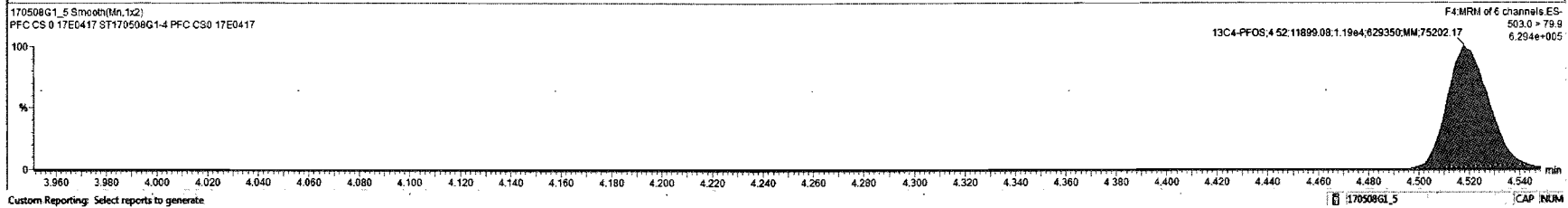
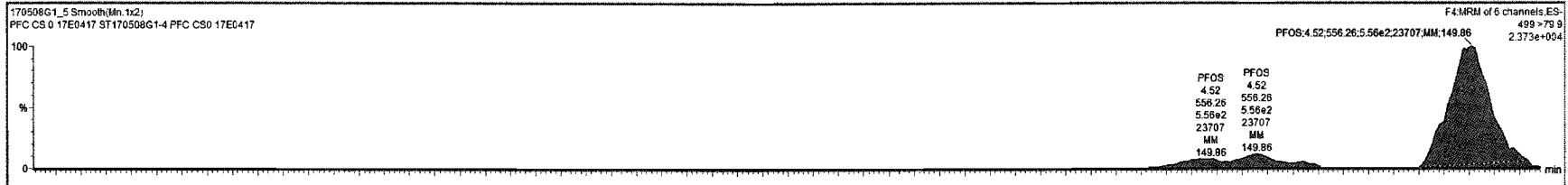
Last Altered: Monday, May 08, 2017 13:07:58 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_5, Date: 08-May-2017, Time: 10:50:15, ID: ST170508G1-4 PFC CS0 17E0417, Description: PFC CS 0 17E0417



Notes	Resp	NRF	WtVol	RT	RA	Rely	Conc	%Rec	DL	EMPC
1	PFBS	1.65e3		1.000	2.92		3.68	83.2	0.00158	
2	PFHpA	4.00e3		1.000	3.75		4.49	69.9	0.00350	
3	PFHxA	2.09e3		1.000	3.86		4.66	102	0.0260	
4	PFDA	3.06e3		1.000	4.14		4.54	90.8	0.01917	
5	PFOS	2.55e2		1.000	4.52		4.83	105	0.0526	
6	PFA	6.08e3		1.000	4.46		4.66	95.6	0.107	
7	13C2-PFHxA	3.19e3	0.40	1.000	3.27		9.53	95.3	0.00643	
8	13C2-PFDA	6.38e3	0.75	1.000	4.73		10.2	102	0.0110	
9	13C2-PFOA	8.33e3	1.00	1.000	4.14		10.0	100	0.00365	
10	13C4-PFOS	1.19e4	1.00	1.000	4.52		26.7	100	0.00054	



Custom Reporting: Select reports to generate

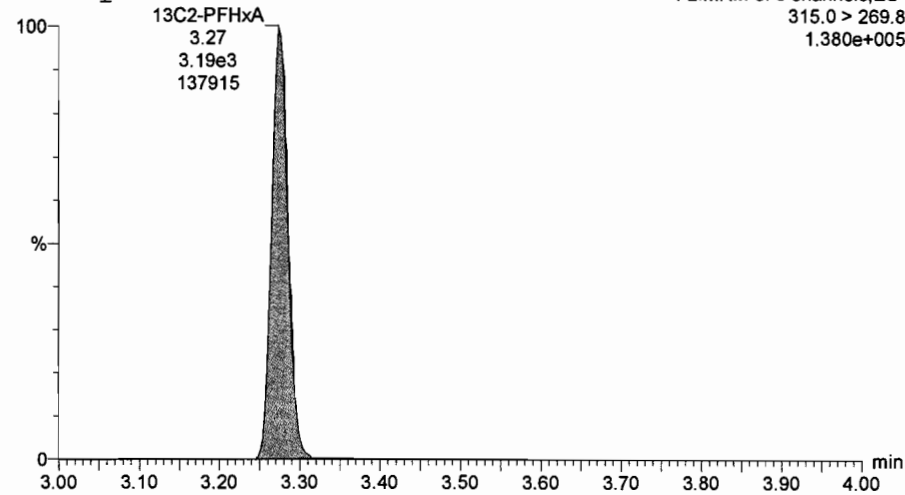
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Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_5, Date: 08-May-2017, Time: 10:50:15, ID: ST170508G1-4 PFC CS0 17E0417, Description: PFC CS 0 17E0417

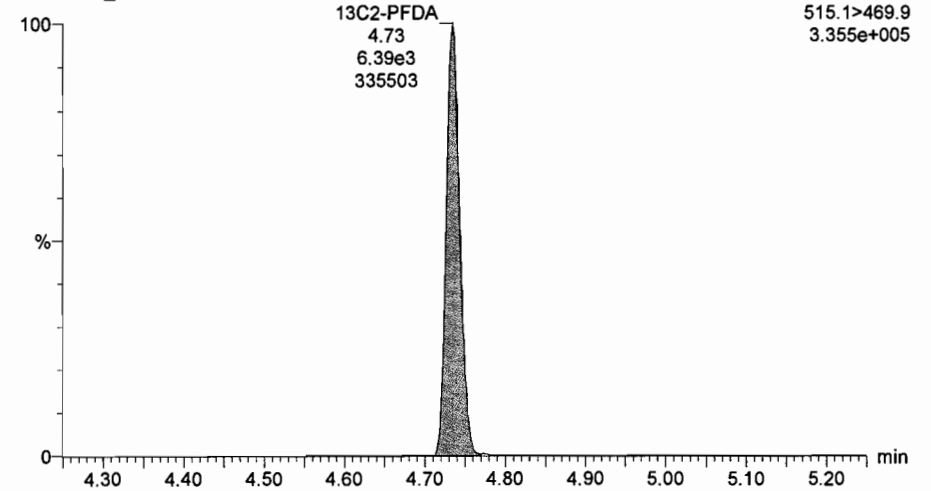
**13C2-PFHxA**

170508G1\_5



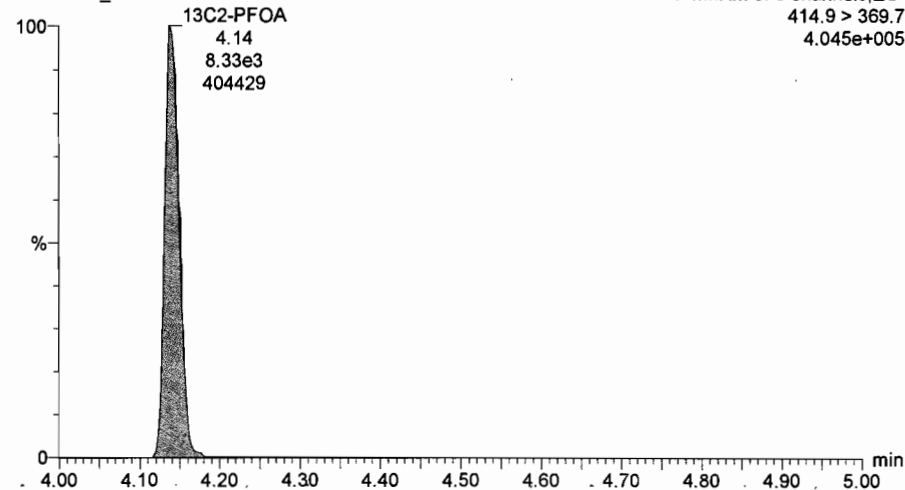
**13C2-PFDA**

170508G1\_5



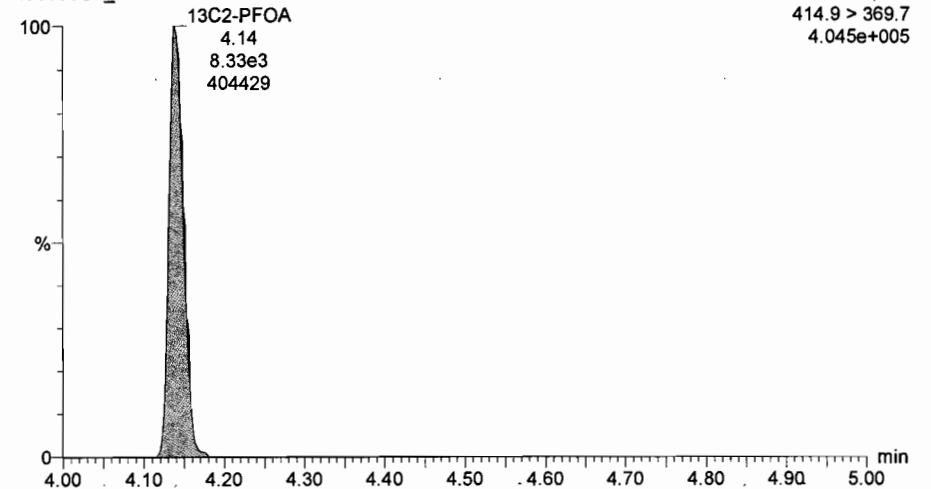
**13C2-PFOA**

170508G1\_5



**13C2-PFOA**

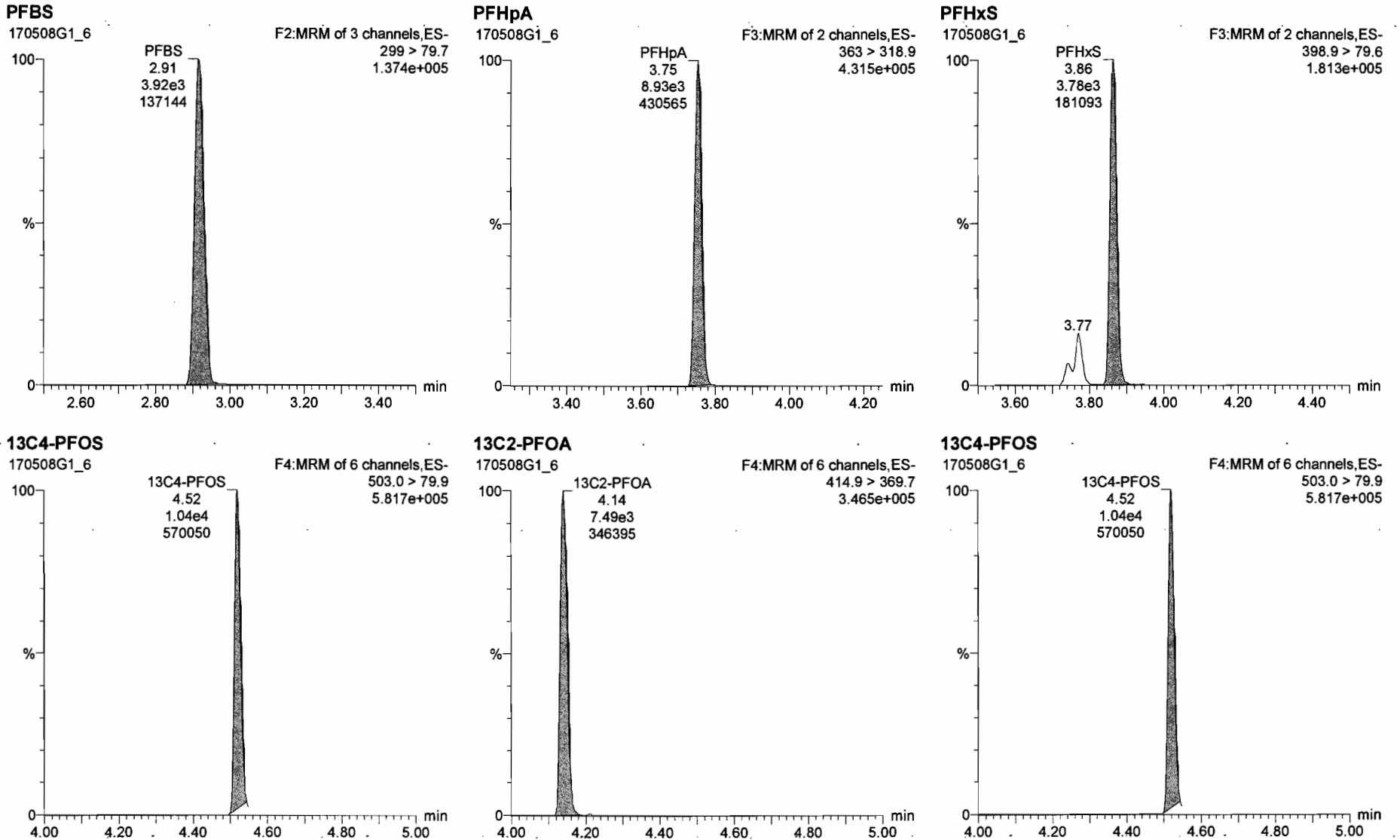
170508G1\_5



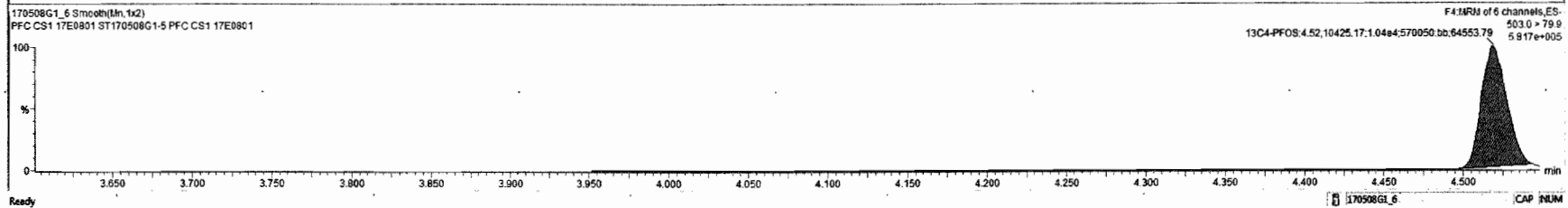
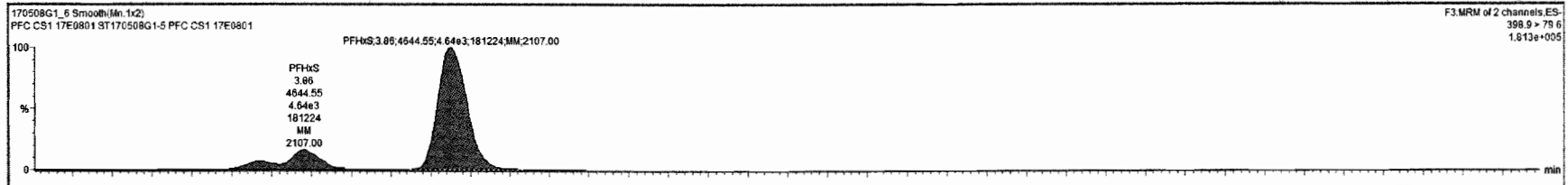
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Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_6, Date: 08-May-2017, Time: 11:02:39, ID: ST170508G1-5 PFC CS1 17E0801, Description: PFC CS1 17E0801



Name	Resp	RRF	wtvol	RT	RA	inj	Contc	WRec	DL	ENPC
1 PFBS	3.92e3		1.000	2.91			10.3	116	0.00137	
2 PFHpA	8.93e3		1.000	3.75			11.6	116	0.00681	
3 PFHxS	4.64e3		1.000	3.86			11.8	129	0.00821	
4 PFDA	6.91e3		1.000	4.14			11.7	117	0.00445	
5 PFOS	1.00e3		1.000	4.52			10.3	112	0.457	
6 PFNA	1.31e4		1.000	4.46			11.6	116	0.00554	
7 13C2-PFHxA	3.47e3	0.40	1.000	3.28			11.6	116	0.00616	
8 13C2-PFDA	6.28e3	0.75	1.000	4.73			11.2	112	0.00696	
9 13C2-PFOA	7.49e3	1.00	1.000	4.14			10.9	109	0.0405	
10 13C4-PFOS	1.04e4	1.00	1.000	4.52			28.7	100	0.00111	



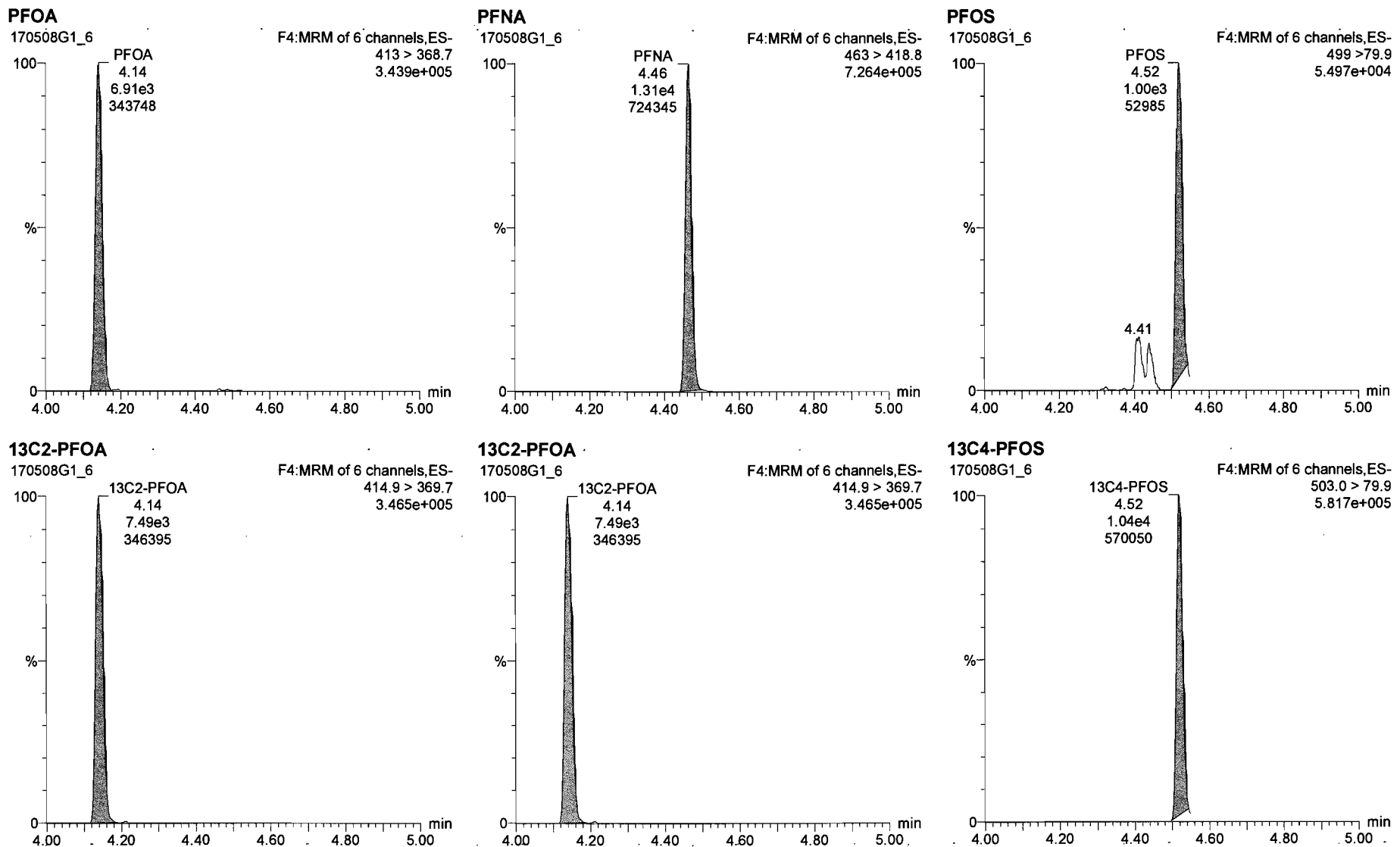


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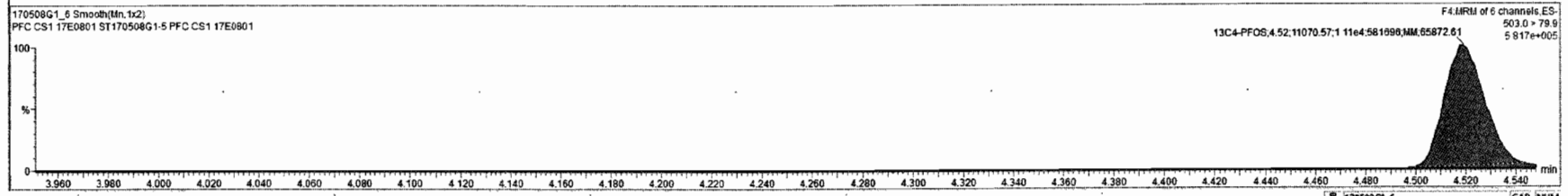
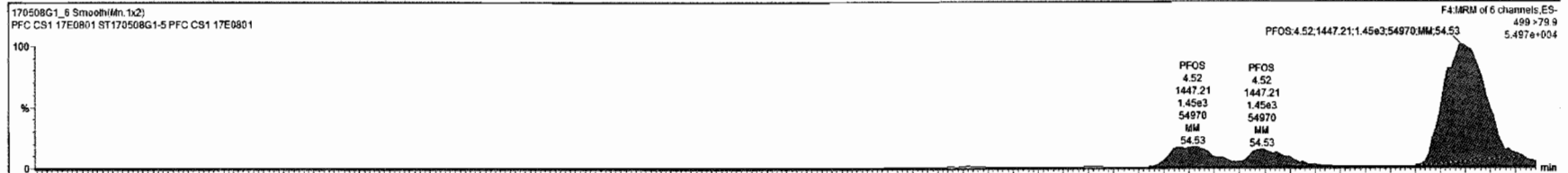
Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_6, Date: 08-May-2017, Time: 11:02:39, ID: ST170508G1-5 PFC CS1 17E0801, Description: PFC CS1 17E0801



170508G1\_6 - ST170508G1-5 PFC CS1 17E0801 - PFC CS1 17E0801

ID	Name	Resp	RRF	wt%Val	RT	RA	Qty	Conc	%Rec	DL	EMPC
1	PFBS	3.92e3	1.000	2.91	10.2	115		0.00141			
2	PFHpA	8.97e3	1.000	3.75	11.6	116		0.00821			
3	PFHxA	4.64e3	1.000	3.86	11.6	128		0.00946			
4	PFOA	6.91e3	1.000	4.14	11.7	117		0.00445			
5	PFOS	1.45e3	1.000	4.52	11.6	117		0.00134			
6	PFNA	1.31e4	1.000	4.46	11.6	116		0.00554			
7	13C2-PFHxA	3.47e3	0.40	1.000	3.28	116		0.00616			
8	13C2-PFOA	6.26e3	0.75	1.000	4.73	112		0.000598			
9	13C2-PFOA	7.49e3	1.00	1.000	4.14	100		0.0465			
10	13C4-PFOS	1.11e4	1.00	1.000	4.52	28.7	100	0.00169			



Custom Reporting: Select reports to generate

170508G1\_6 CAP NUM

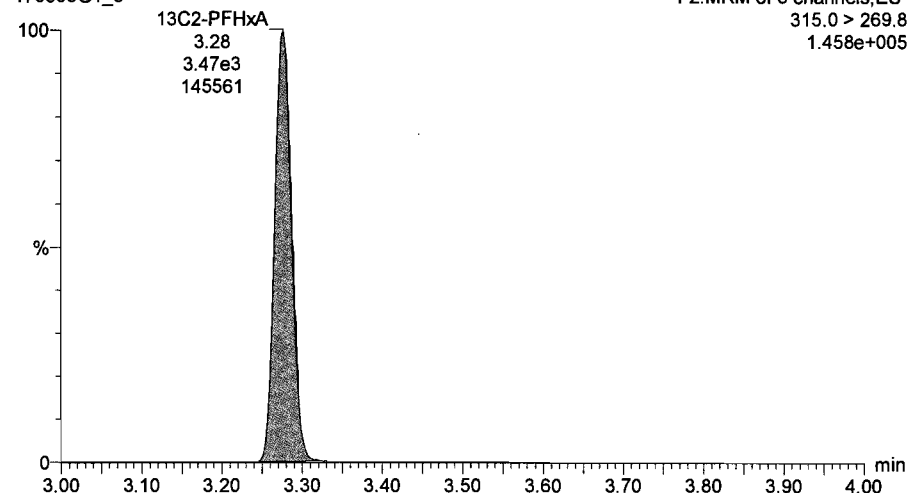
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Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_6, Date: 08-May-2017, Time: 11:02:39, ID: ST170508G1-5 PFC CS1 17E0801, Description: PFC CS1 17E0801

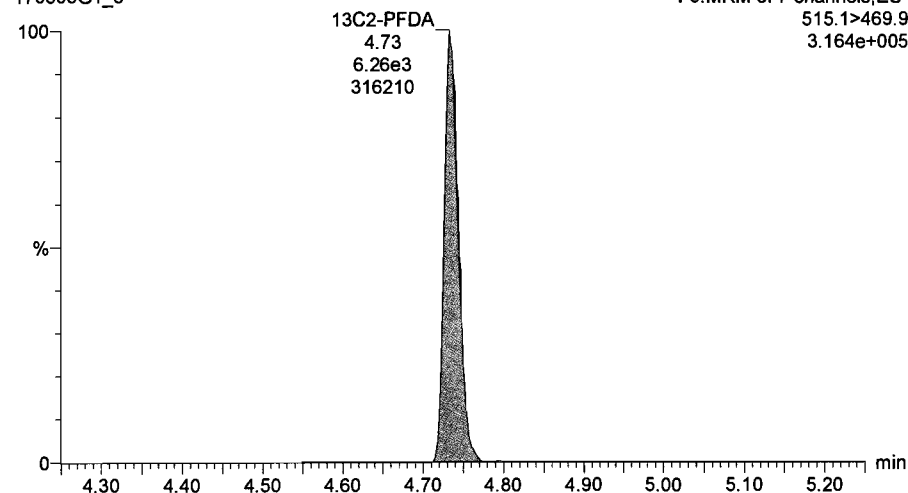
**13C2-PFHxA**

170508G1\_6



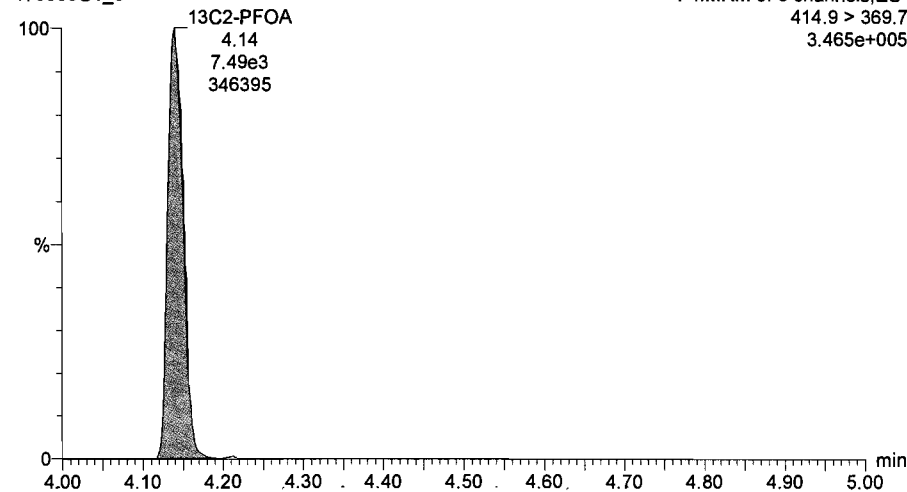
**13C2-PFDA**

170508G1\_6



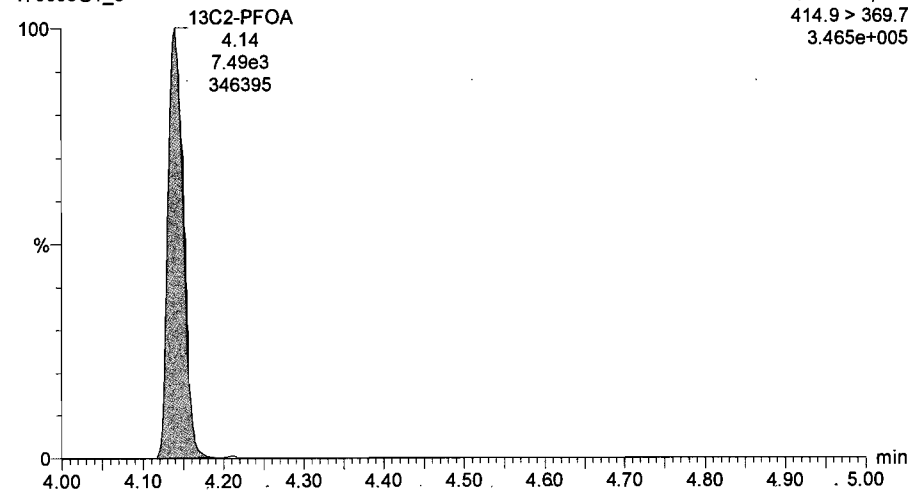
**13C2-PFOA**

170508G1\_6



**13C2-PFOA**

170508G1\_6

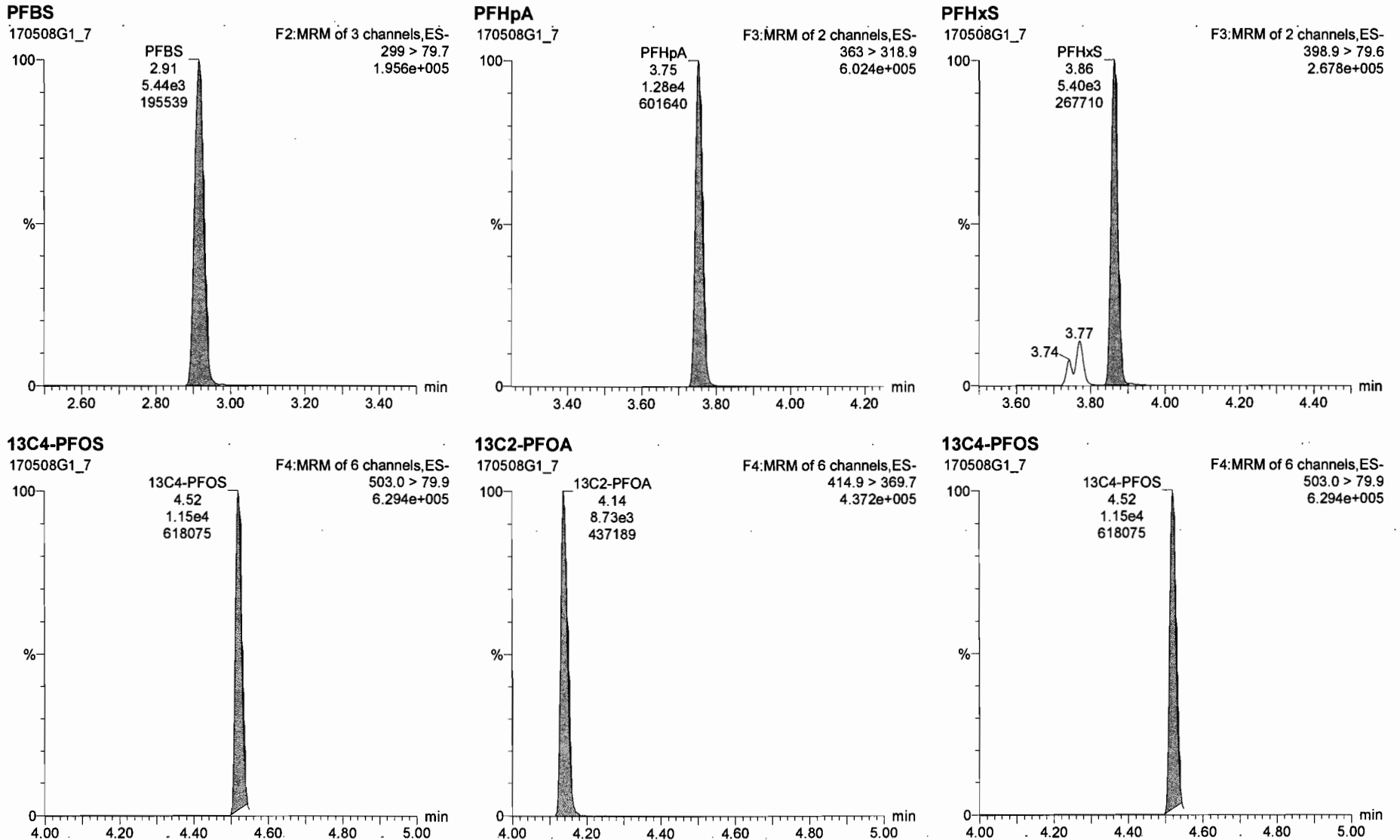


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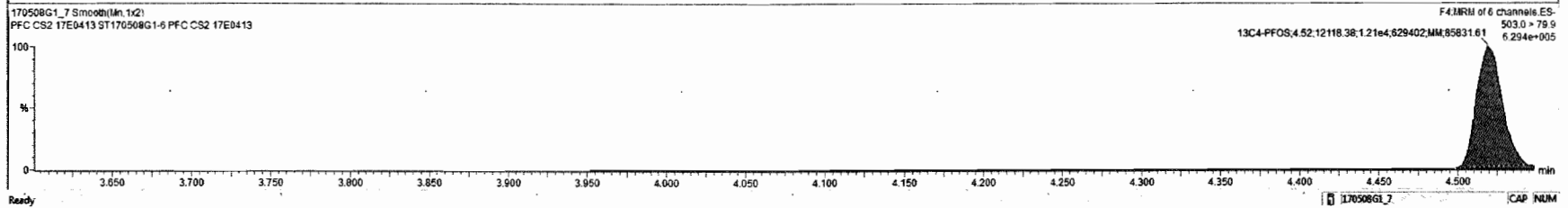
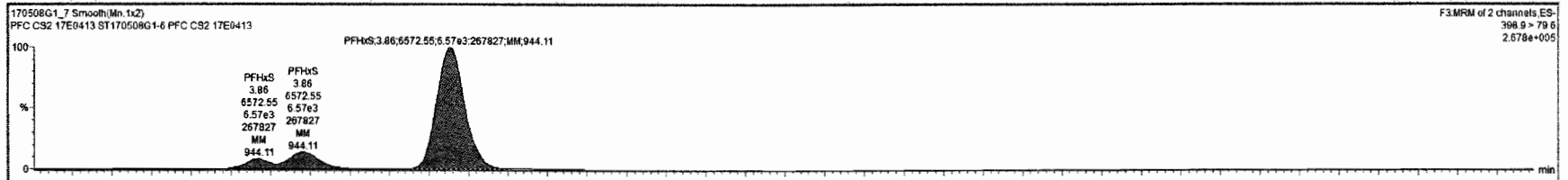
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Name: 170508G1\_7, Date: 08-May-2017, Time: 11:15:06, ID: ST170508G1-6 PFC CS2 17E0413, Description: PFC CS2 17E0413



170508G1\_7 - ST170508G1-6 PFC CS2 17E0413 - PFC CS2 17E0413

Name	Resp	RRF	width	RT	RA	Qty	Conc	%Rec	DL	EMPC
1 PFBS	5.44e3		1.000	2.91			13.2	99.3	0.00324	
2 PFHxA	1.28e4		1.000	3.75			14.4	96.2	0.00703	
3 PFHxS	6.57e3		1.000	3.86			14.3	100	0.0273	
4 PFDA	9.77e3		1.000	4.14			14.4	95.9	0.0247	
5 PFOS	1.84e3		1.000	4.52			13.4	95.4	0.0468	
6 PFNA	1.82e4		1.000	4.46			14.0	93.2	0.00106	
7 13C2-PFHxA	3.38e3	0.40	1.000	3.27			8.64	96.4	0.00106	
8 13C2-PFDA	8.34e3	0.75	1.000	4.73			8.71	97.1	0.00840	
9 13C2-PFOA	8.73e3	1.00	1.000	4.14			10.0	100	0.00750	
10 13C4-PFOS	1.21e4	1.00	1.000	4.52			28.7	100	0.00836	

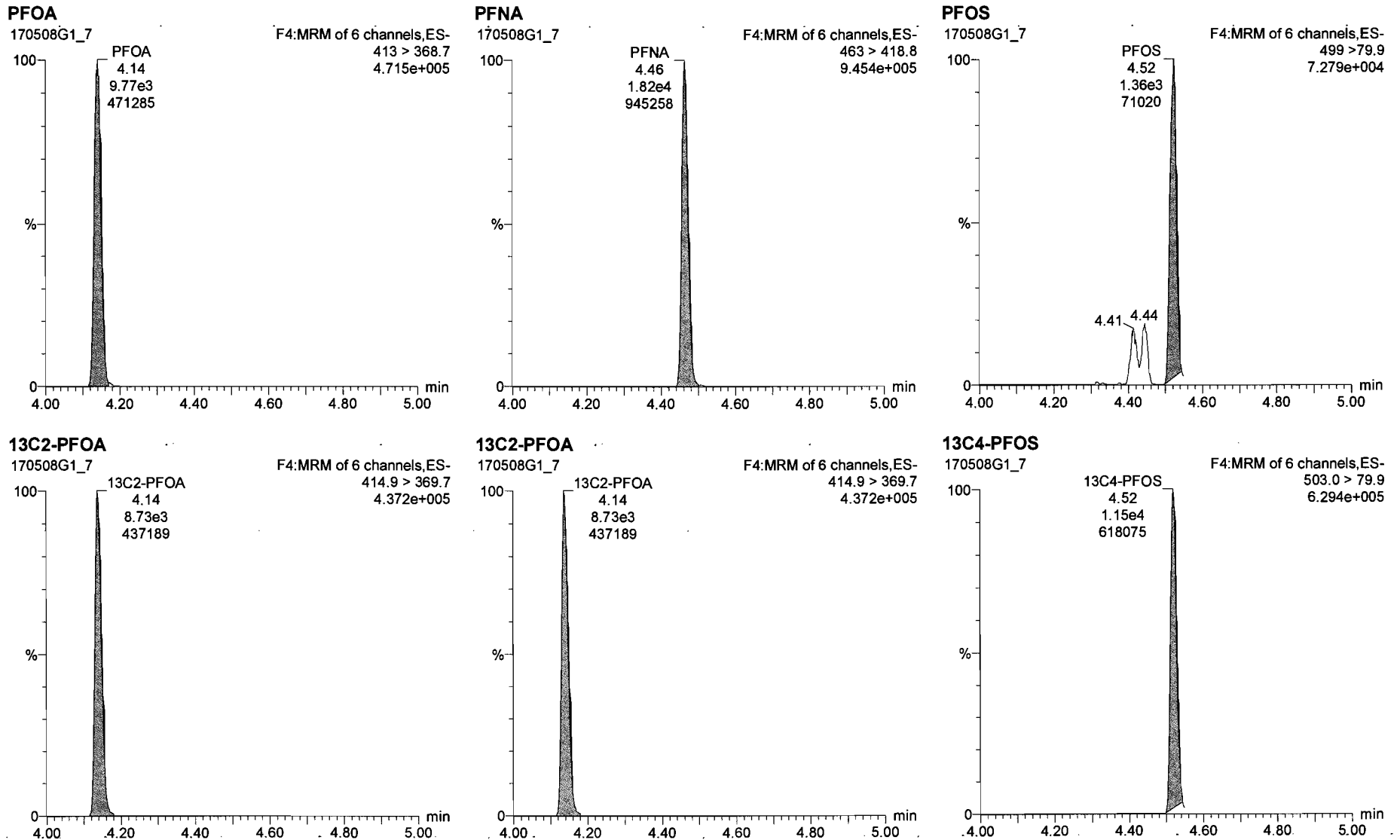


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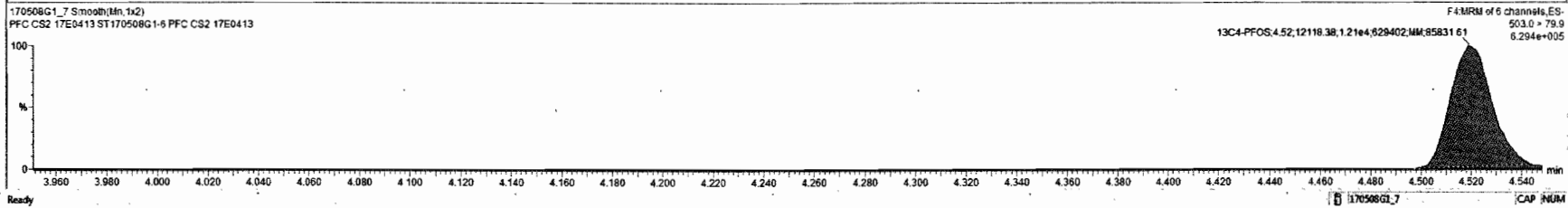
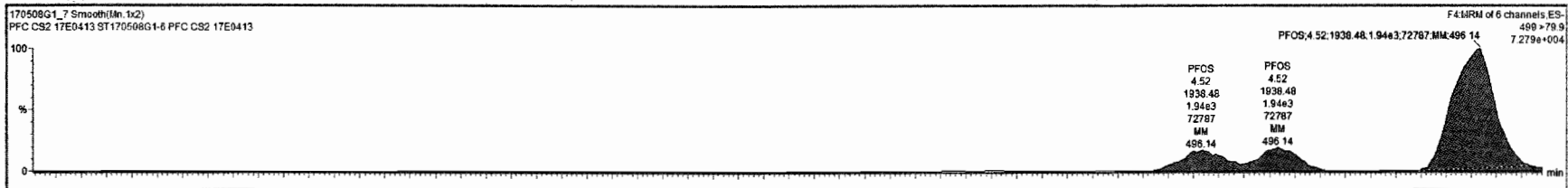
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Name: 170508G1\_7, Date: 08-May-2017, Time: 11:15:06, ID: ST170508G1-6 PFC CS2 17E0413, Description: PFC CS2 17E0413



170508G1\_7 - ST170508G1-6 PFC CS2 17E0413 - PFC CS2 17E0413

#	Name	Resp	RRF	wt/Vol	RT	RA	IV	Conc.	%Rec	DL	EMPC
1	PFBS	5.44e3		1.000	2.91			13.2	99.3	0.00324	
2	PFHpA	1.28e4		1.000	3.75			14.4	96.2	0.00703	
3	PFHxS	6.57e3		1.000	3.86			14.6	106	0.0273	
4	PFOA	9.77e3		1.000	4.14			14.4	95.9	0.0247	
5	PFOS	1.94e3		1.000	4.52			12.8	86.8	0.0466	
6	PFNA	1.82e4		1.000	4.46			14.0	93.2	0.00106	
7	13C2-PFHpA	3.38e3	0.40	1.000	3.27			9.64	96.4	0.00106	
8	13C2-PFOA	8.34e3	0.75	1.000	4.73			9.71	97.1	0.005940	
9	13C2-PFOA	8.73e3	1.00	1.000	4.14			10.0	100	0.00759	
10	13C4-PFOS	1.21e4	1.00	1.000	4.52			28.7	100	0.000836	



Dataset: Untitled

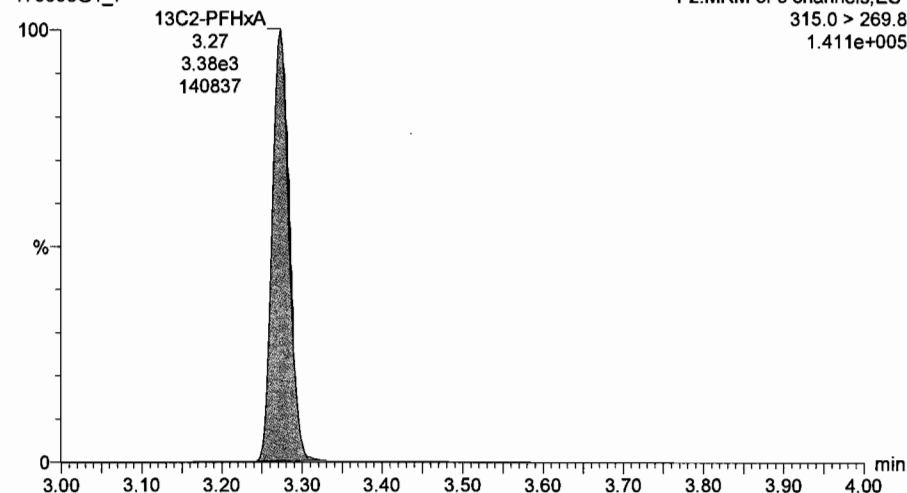
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Name: 170508G1\_7, Date: 08-May-2017, Time: 11:15:06, ID: ST170508G1-6 PFC CS2 17E0413, Description: PFC CS2 17E0413

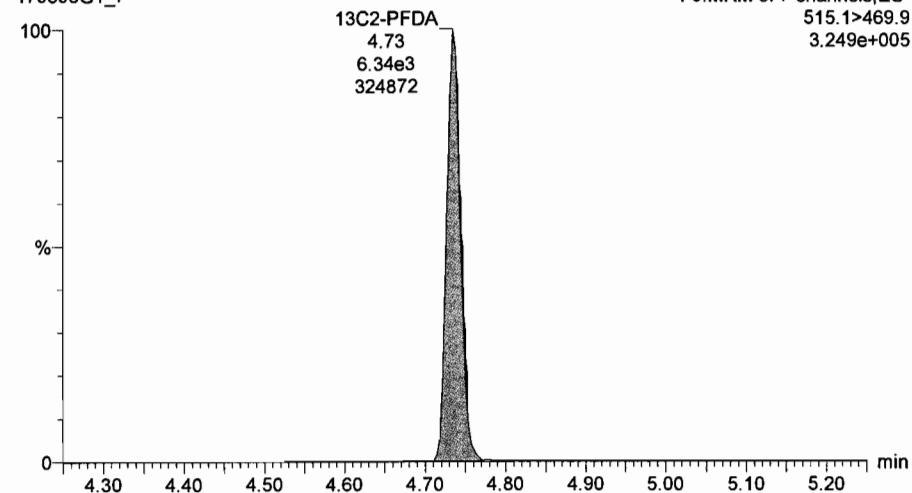
**13C2-PFHxA**

170508G1\_7



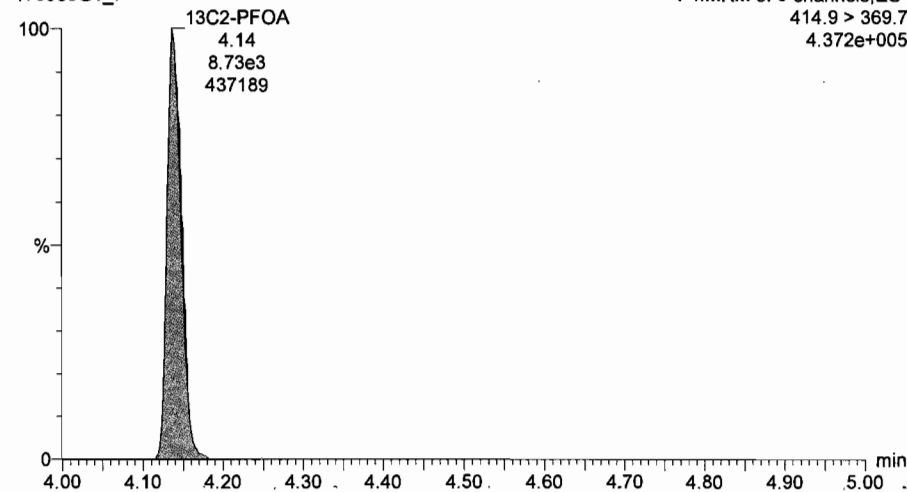
**13C2-PFDA**

170508G1\_7



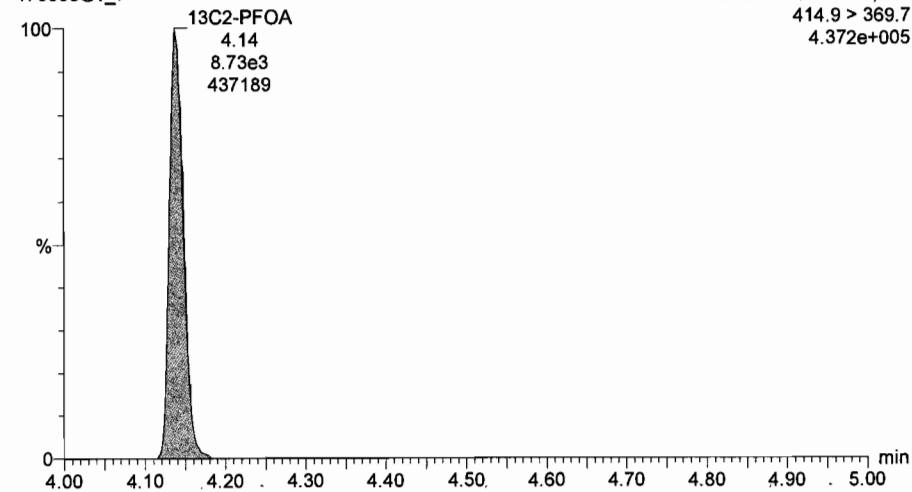
**13C2-PFOA**

170508G1\_7



**13C2-PFOA**

170508G1\_7



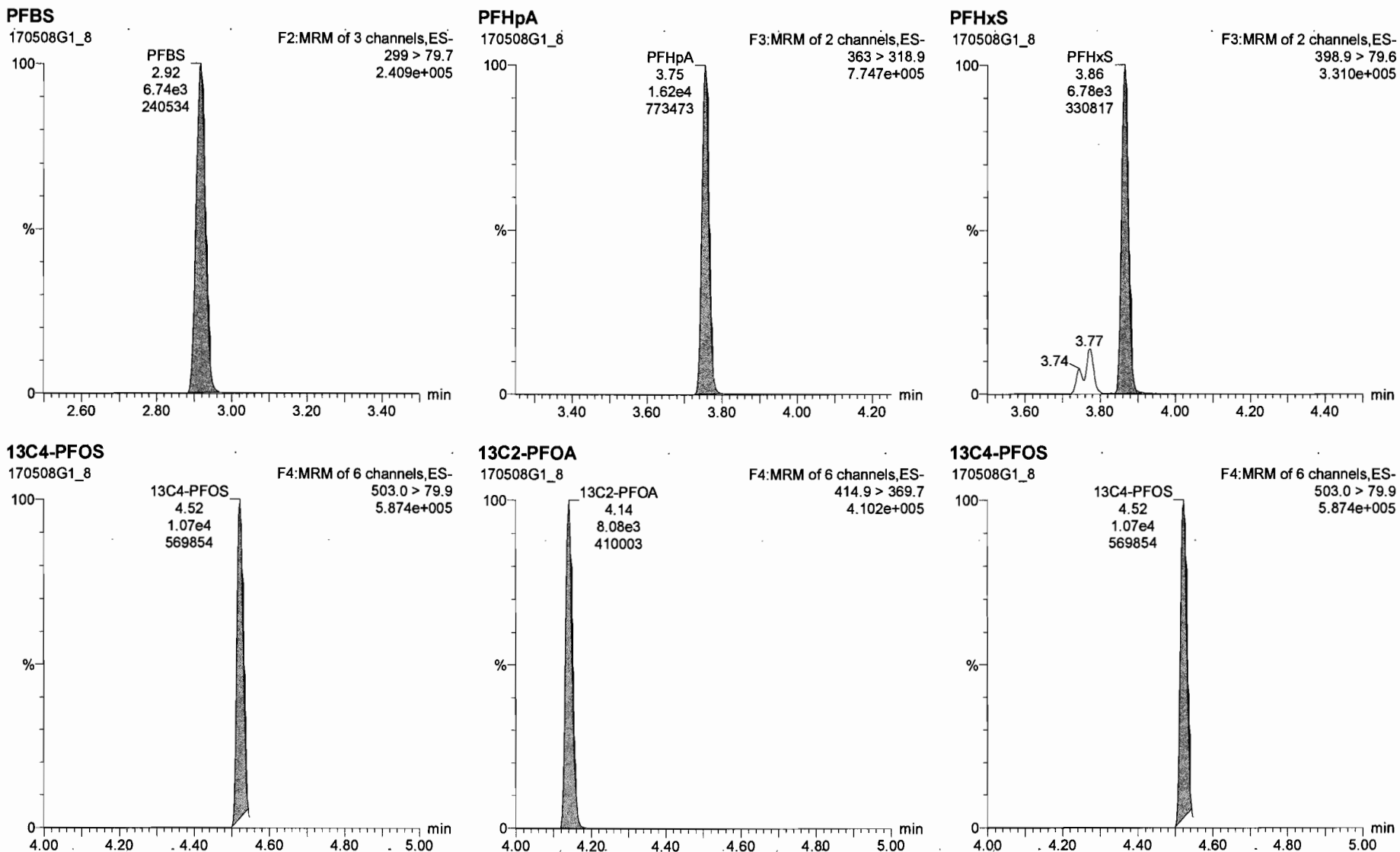


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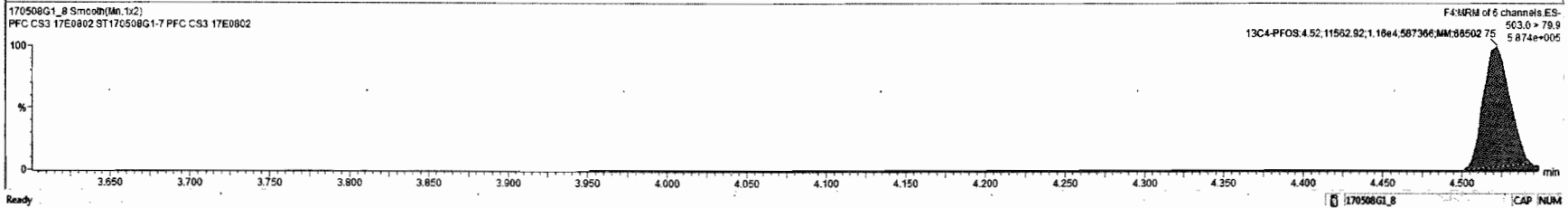
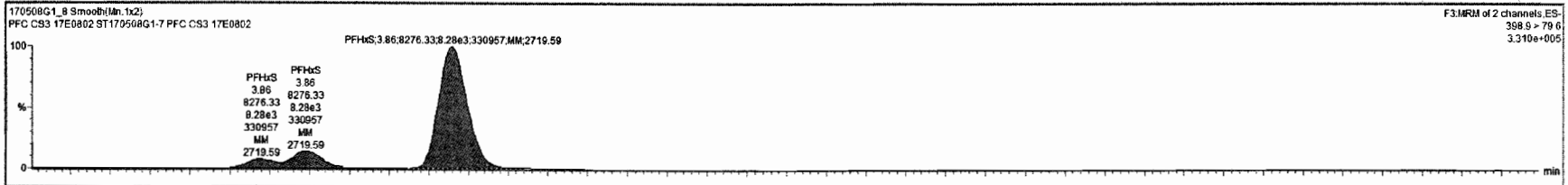
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Name: 170508G1\_8, Date: 08-May-2017, Time: 11:27:31, ID: ST170508G1-7 PFC CS3 17E0802, Description: PFC CS3 17E0802



Name	Area	Area%	Height	RT	NA	Qty	Clac.	Wt%	DL	EMPC
1 PFBS	6.74e3		1.000	2.92			17.5	99.0	0.00889	
2 PFHpA	1.62e4		1.000	3.75			20.3	101	0.00520	
3 PFHxS	8.29e3		1.000	3.86			19.6	107	0.0119	
4 PFDA	1.22e4		1.000	4.14			19.5	98.9	0.0251	
5 PFOS	2.66e3		1.000	4.52			16.7	106	0.0306	
6 PFNA	2.39e4		1.000	4.47			20.4	102	0.00736	
7 13C2-PFIsCA	3.51e3	0.40	1.000	3.27			10.8	106	0.00153	
8 13C2-PFDA	8.25e3	0.75	1.000	4.74			10.3	103	0.00597	
9 13C2-PFOA	8.08e3	1.00	1.000	4.14			10.0	100	0.0139	
10 13C4-PFOS	1.16e4	1.00	1.000	4.52			28.7	100	0.00108	

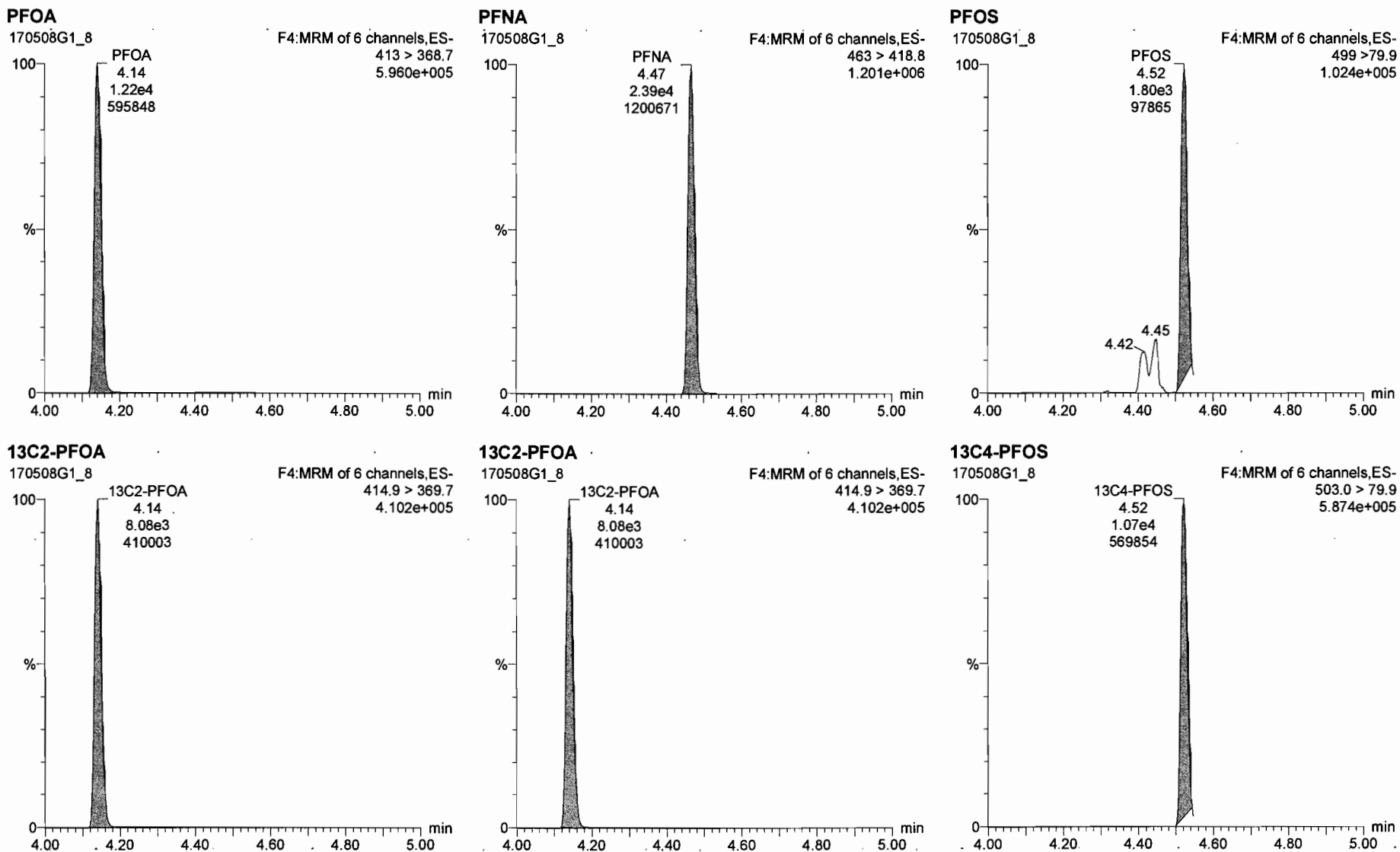


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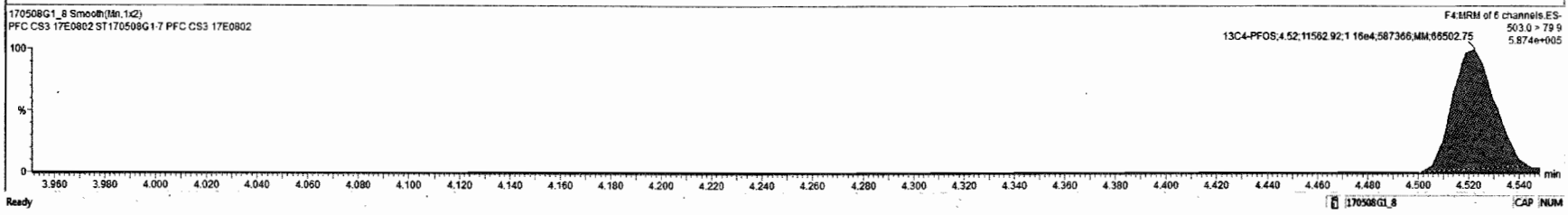
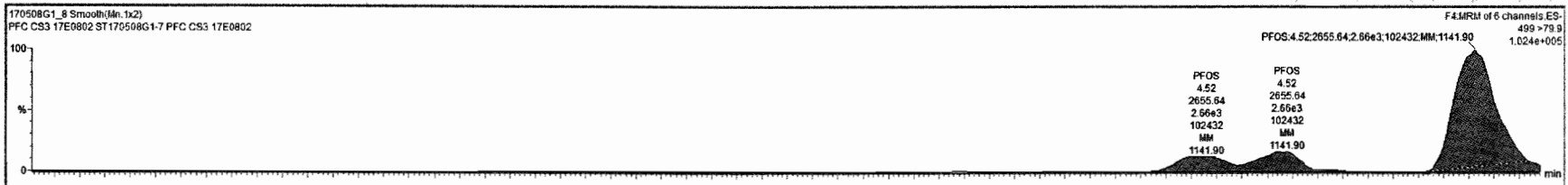
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Name: 170508G1\_8, Date: 08-May-2017, Time: 11:27:31, ID: ST170508G1-7 PFC CS3 17E0802, Description: PFC CS3 17E0802



170508G1 8 - ST170508G1-7 PFC CS3 17E0802 - PFC CS3 17E0802

Name	Resp	RRF	wtVol	RT	RA	ny	Conc.	%Rec	DL	EMPC
PFBS	6.74e3		1.000	2.92			17.5	99.0	0.00869	
PFHpA	1.62e4		1.000	3.75			20.3	101	0.00520	
PFhxD	8.28e3		1.500	3.86			19.6	107	0.0119	
PFDA	1.22e4		1.000	4.14			19.8	98.9	0.0251	
PFOS	2.66e3		1.000	4.52			16.7	106	0.0308	
PFNA	2.39e4		1.600	4.47			20.4	102	0.00736	
13C2-PFhxA	3.51e3	0.40	1.000	3.27			10.8	105	0.00153	
13C2-PFDA	6.25e3	0.75	1.600	4.74			10.3	103	0.00597	
13C2-PFOA	8.08e3	1.00	1.600	4.14			10.0	100	0.0138	
13C4-PFOS	1.16e4	1.00	1.000	4.52			28.7	100	0.00108	



Dataset: Untitled

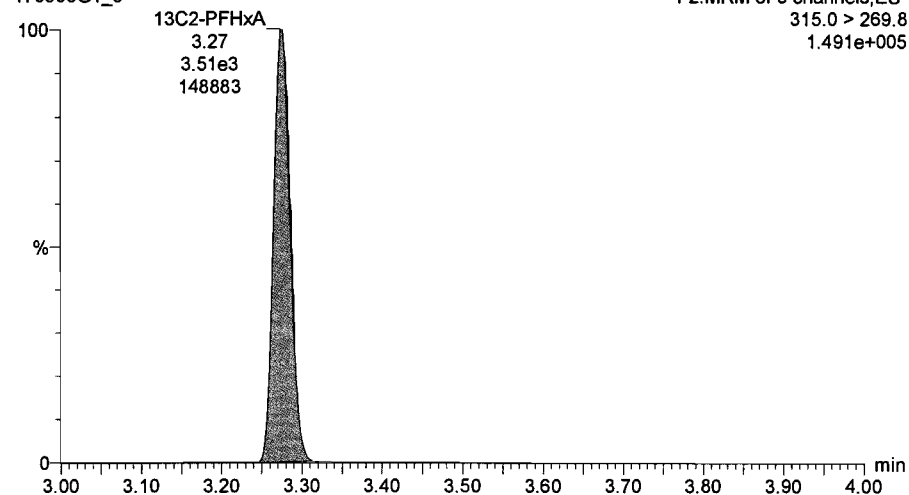
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Name: 170508G1\_8, Date: 08-May-2017, Time: 11:27:31, ID: ST170508G1-7 PFC CS3 17E0802, Description: PFC CS3 17E0802

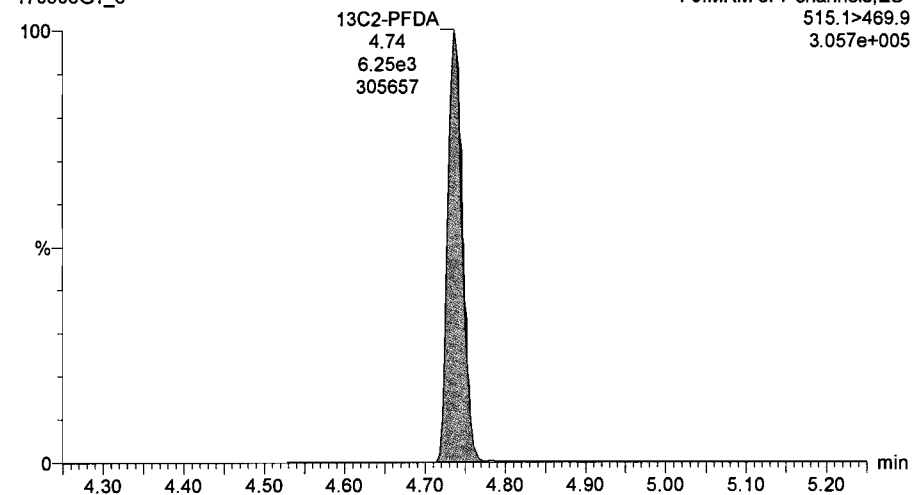
**13C2-PFHxA**

170508G1\_8



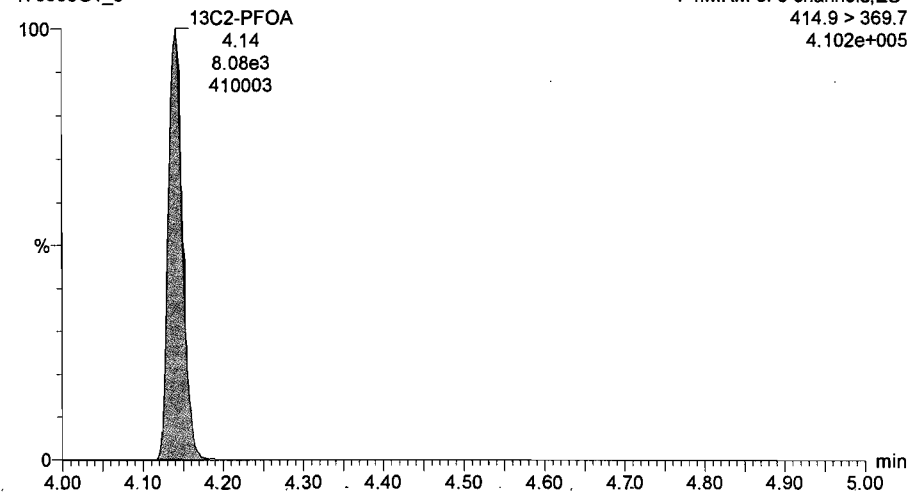
**13C2-PFDA**

170508G1\_8



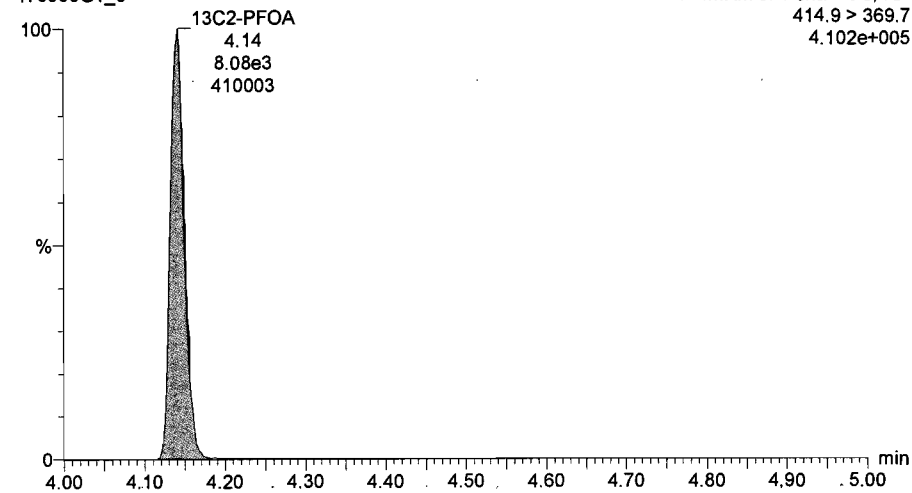
**13C2-PFOA**

170508G1\_8



**13C2-PFOA**

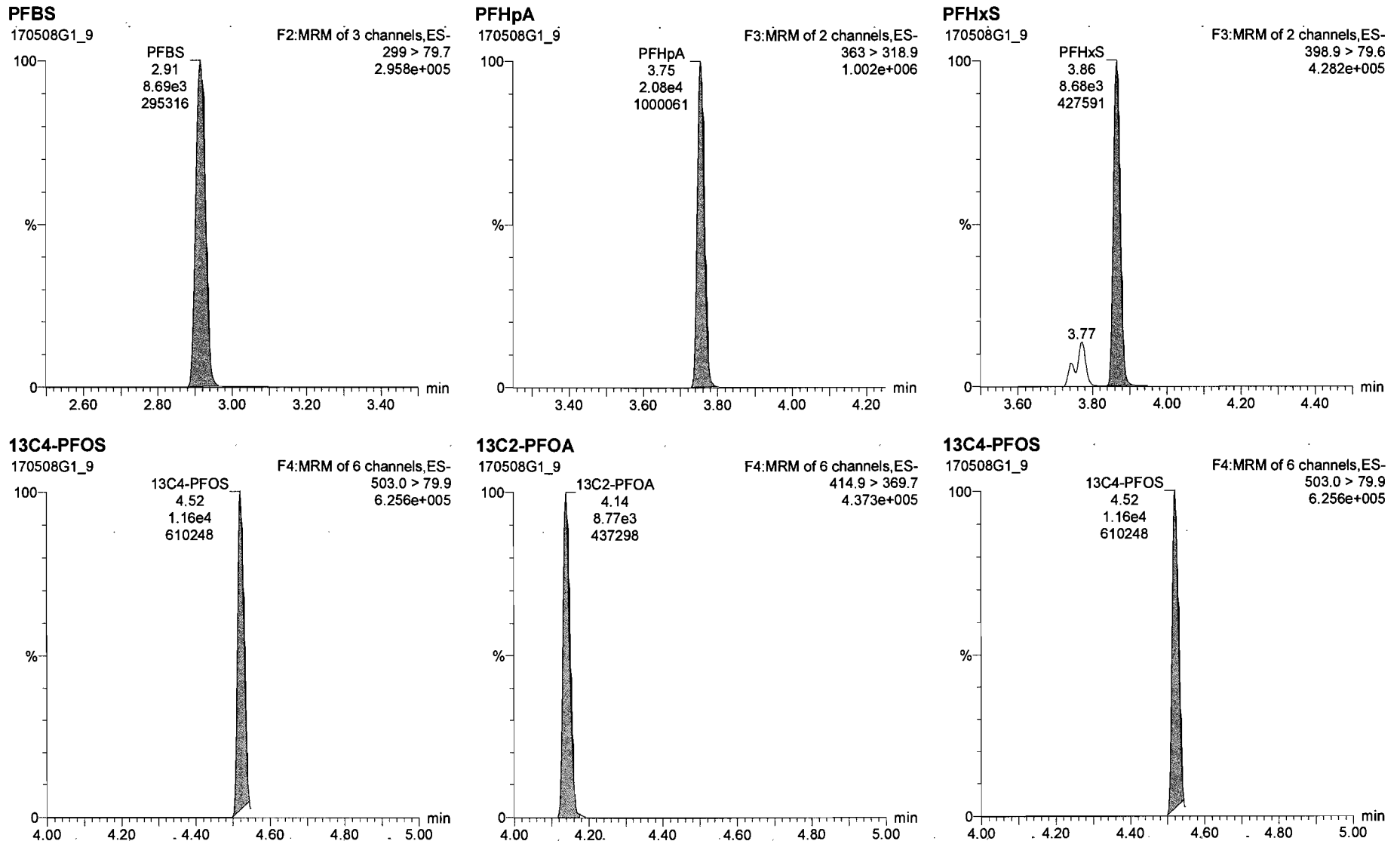
170508G1\_8



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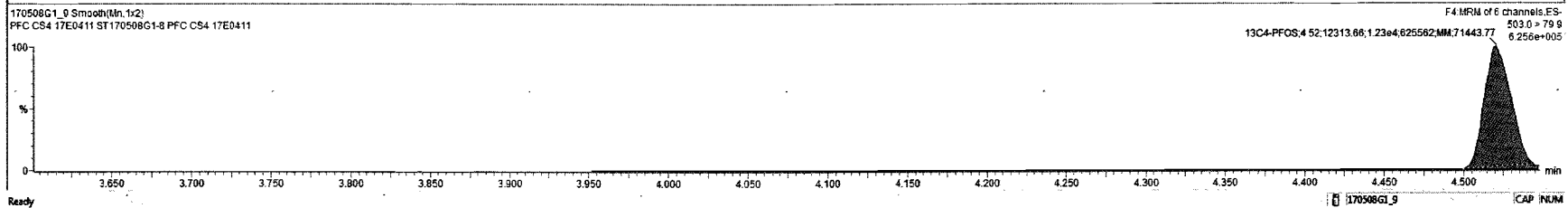
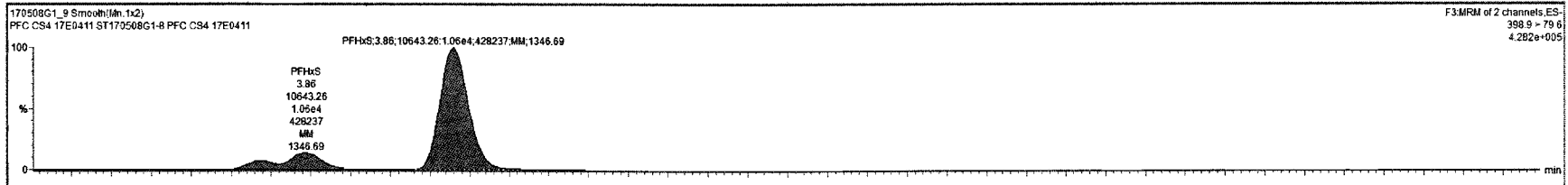
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Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_9, Date: 08-May-2017, Time: 11:39:57, ID: ST170508G1-8 PFC CS4 17E0411, Description: PFC CS4 17E0411



170508G1\_9 - ST170508G1-8 PFC CS4 17E0411 - PFC CS4 17E0411

Name	Resp	RRF	retVol	RT	RA	WY	Conc.	%Rec	DL	EMPC
1 PFBS	8.69e3		1.000	2.91			21.8	98.5	0.00276	
2 PFHpA	2.08e4		1.000	3.75			24.7	98.7	0.0114	
3 PFOS	1.05e4		1.000	3.86			22.8	103	0.0278	
4 PFOA	1.62e4		1.000	4.14			24.8	99.2	0.0935	
5 PFOS	3.23e3		1.000	4.52			22.7	98.2	0.0883	
6 PFHA	3.07e4		1.000	4.48			24.8	99.0	0.0140	
7 13C2-PFHxA	3.49e3	0.40	1.000	3.27			8.92	99.2	0.000756	
8 13C2-PFOA	8.54e3	0.75	1.000	4.73			10.4	104	0.0282	
9 13C2-PFOA	8.77e3	1.00	1.000	4.14			10.0	100	0.0194	
10 13C4-PFOS	1.23e4	1.00	1.000	4.52			26.7	100	0.00100	

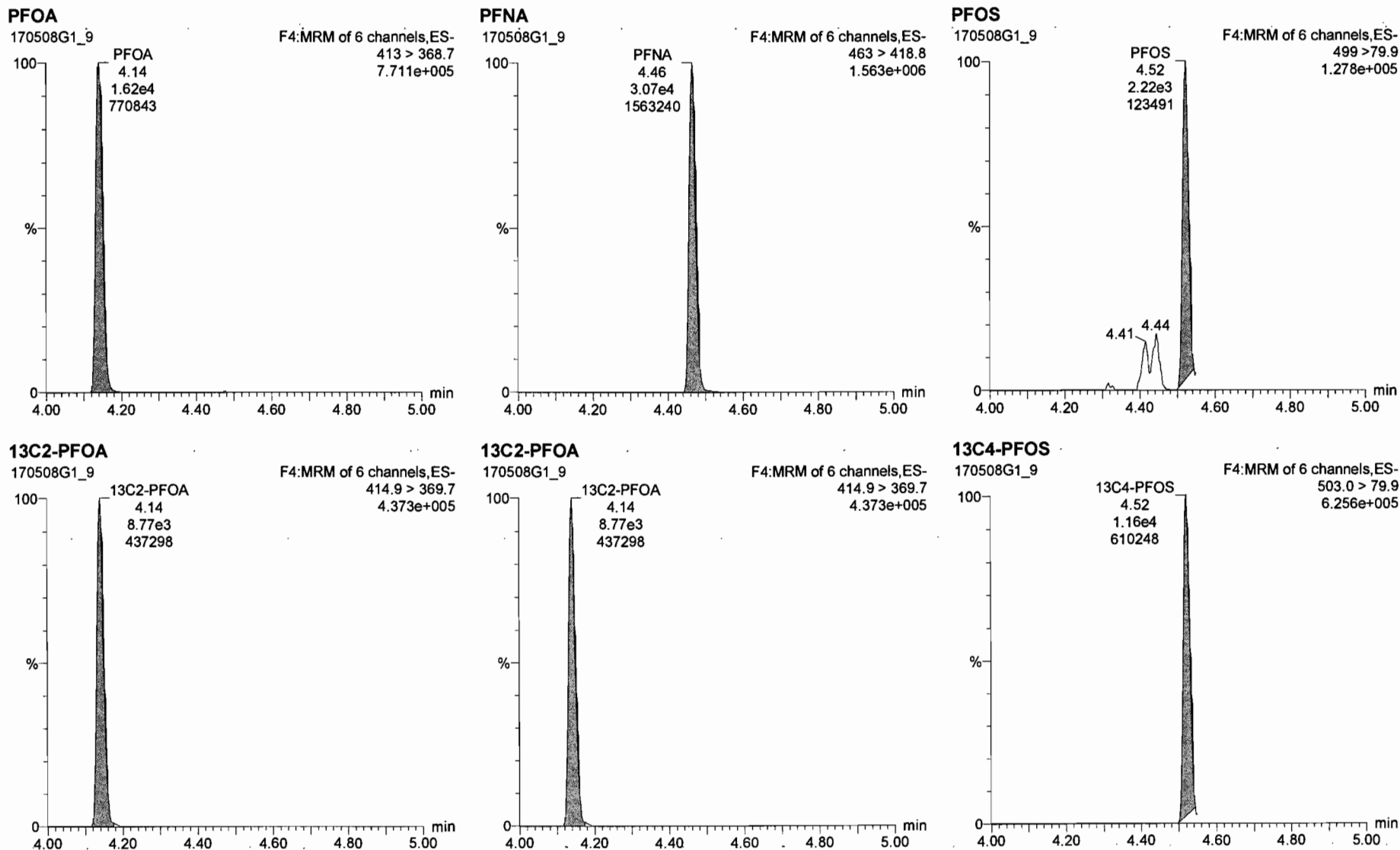


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Last Altered: Monday, May 08, 2017 13:07:58 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

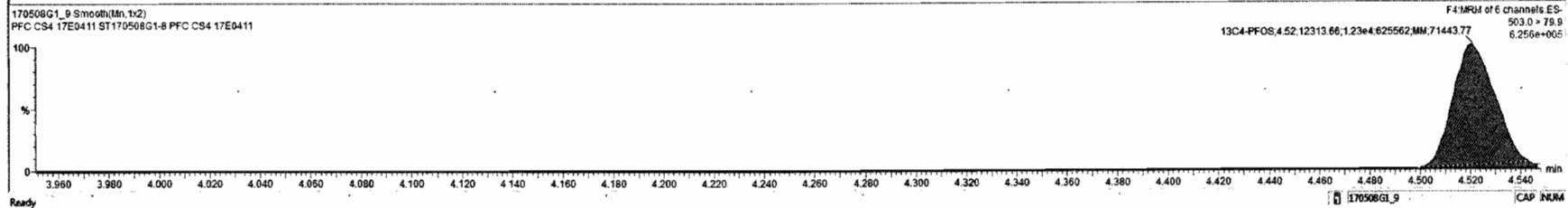
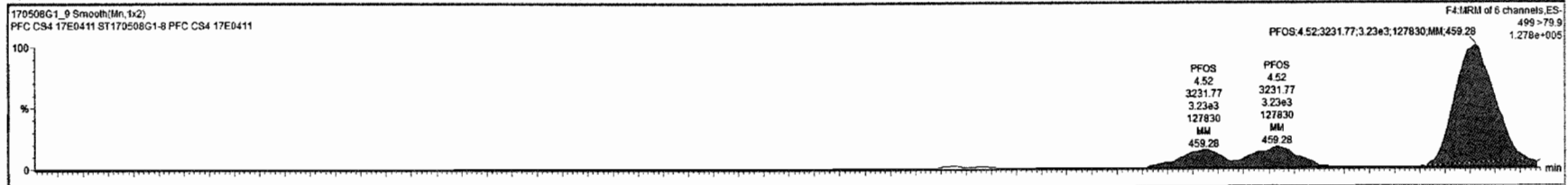
Name: 170508G1\_9, Date: 08-May-2017, Time: 11:39:57, ID: ST170508G1-8 PFC CS4 17E0411, Description: PFC CS4 17E0411





170508G1\_9 - ST170508G1-8 PFC CS4 17E0411 - PFC CS4 17E0411

#	Name	Resp	RNF	WtPct	RT	RA	WV	Conc	%Rec	DL	EMPC
1	PFBS	8.69e3		1.000	2.91			21.8	96.5	0.00276	
2	PFHpA	2.08e4		1.000	3.75			24.7	96.7	0.0114	
3	PFHxS	1.96e4		1.000	3.86			23.6	103	0.0278	
4	PFDA	1.62e4		1.000	4.14			24.8	99.2	0.0935	
5	PFOS	3.23e3		1.000	4.52			22.7	96.2	0.0663	
6	PFMA	3.07e4		1.000	4.46			24.8	99.0	0.0140	
7	13C2-PFHpA	3.49e3	0.40	1.000	3.27			9.92	99.2	0.000756	
8	13C2-PFDA	6.04e3	0.75	1.000	4.73			10.4	104	0.0282	
9	13C2-PFOA	8.77e3	1.00	1.000	4.14			10.0	100	0.0194	
10	13C4-PFOS	1.23e4	1.00	1.000	4.52			26.7	100	0.00100	



Dataset: Untitled

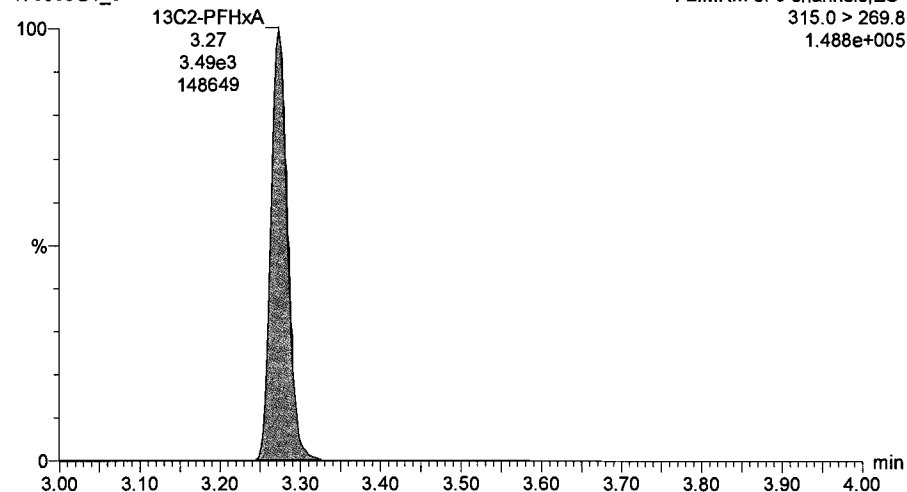
Last Altered: Monday, May 08, 2017 13:07:58 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_9, Date: 08-May-2017, Time: 11:39:57, ID: ST170508G1-8 PFC CS4 17E0411, Description: PFC CS4 17E0411

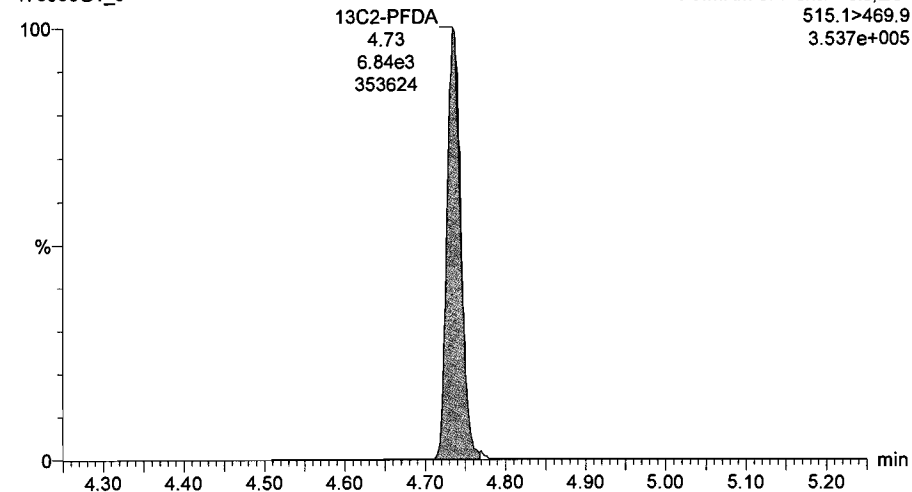
**13C2-PFHxA**

170508G1\_9



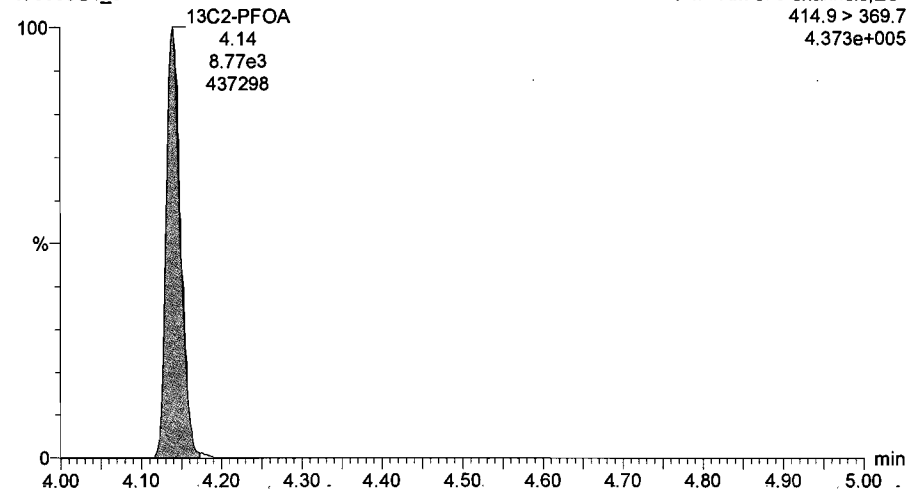
**13C2-PFDA**

170508G1\_9



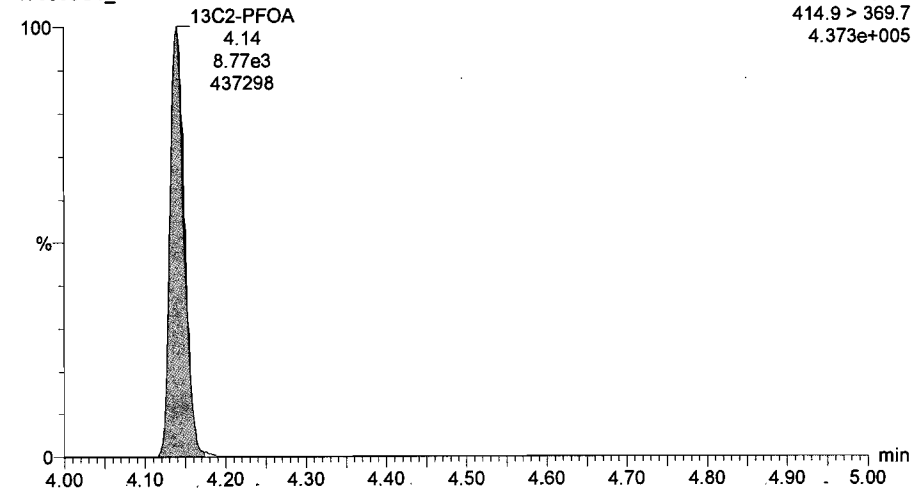
**13C2-PFOA**

170508G1\_9



**13C2-PFOA**

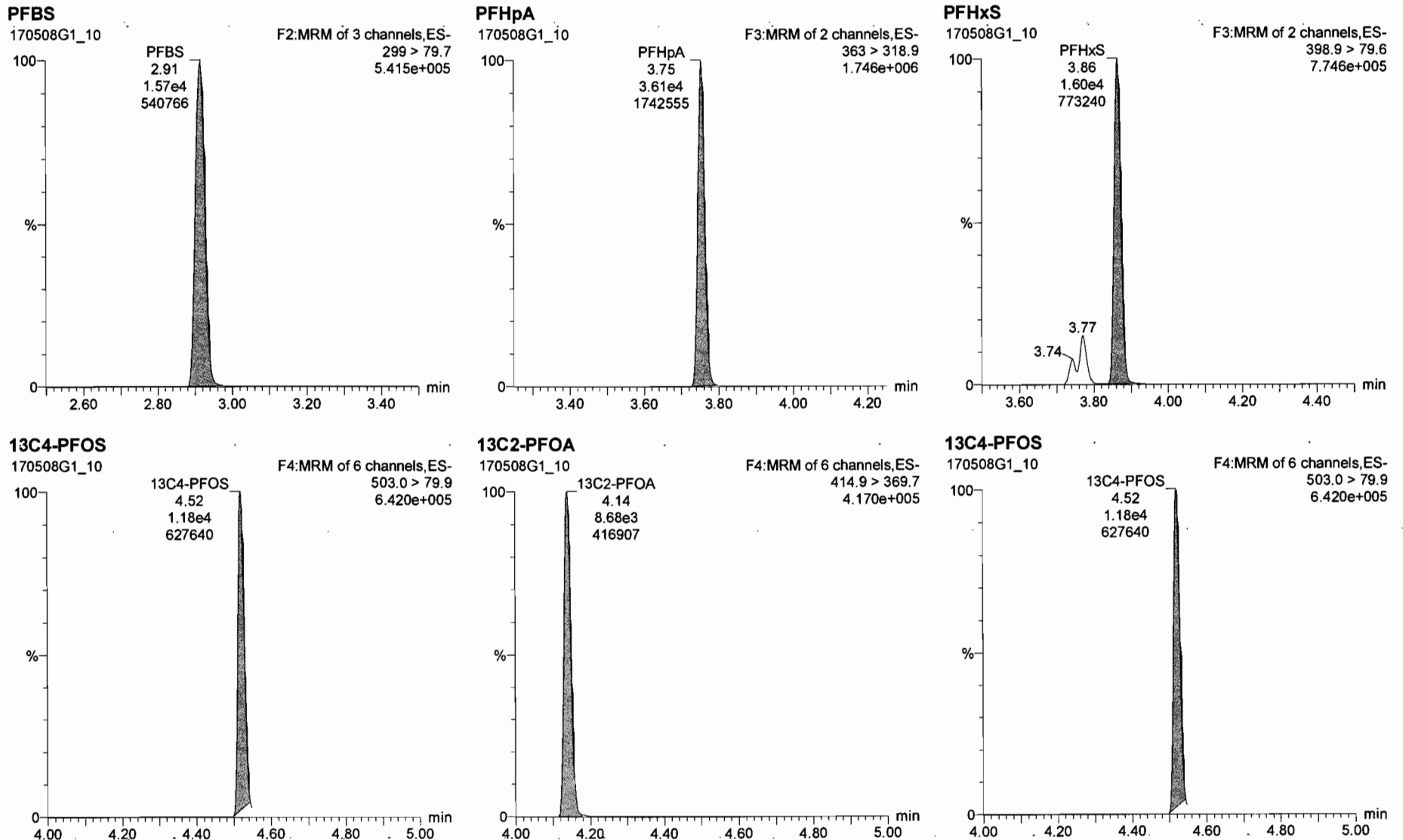
170508G1\_9



Dataset: Untitled

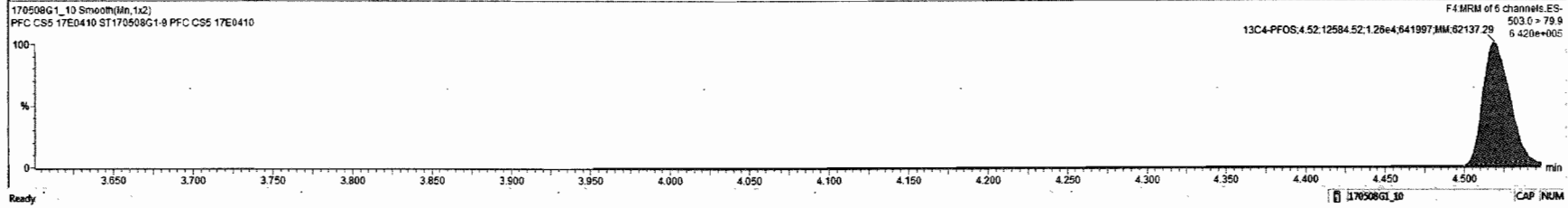
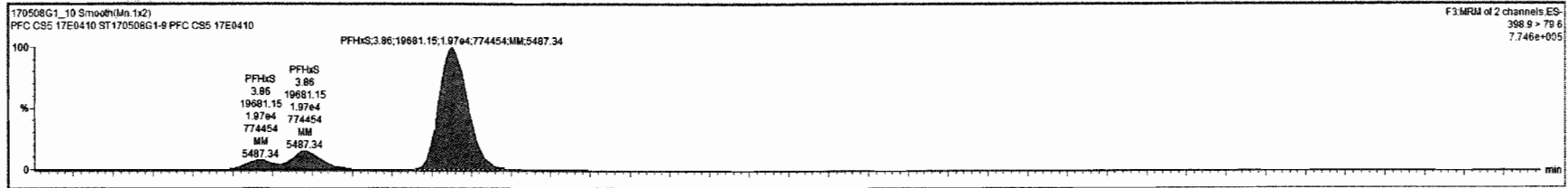
Last Altered: Monday, May 08, 2017 13:07:58 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_10, Date: 08-May-2017, Time: 11:52:23, ID: ST170508G1-9 PFC CS5 17E0410, Description: PFC CS5 17E0410



170508G1\_10 - ST170508G1-9 PFC CS5 17E0410 - PFC CS5 17E0410

Name	Resp	RRF	WtVol	RT	RA	My	Comp	%Rec	DL	EMPC
1 PFBS	1.57e4	1.000	2.91				44.2	100	0.00876	
2 PFHpA	3.61e4	1.000	3.75				49.9	99.8	0.00565	
3 PFHxS	1.97e4	1.000	3.86				45.2	100	0.0128	
4 PFDA	2.89e4	1.000	4.14				50.1	100	0.0457	
5 PFOS	6.13e3	1.000	4.52				45.9	99.2	1.20	
6 PFNA	5.35e4	1.000	4.46				50.0	99.9	0.0197	
7 13C2-PFHxA	3.31e3	0.40	1.000	3.27			9.59	95.0	0.00677	
8 13C2-PFDA	6.22e3	0.75	1.000	4.74			9.58	95.8	0.00510	
9 13C2-PFOA	6.68e3	1.00	1.000	4.14			10.0	100	0.00678	
10 13C4-PFOS	1.26e4	1.00	1.000	4.52			26.7	100	0.00115	



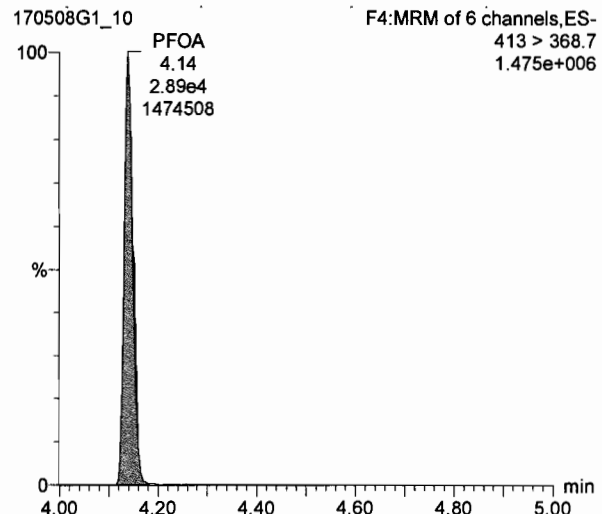
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Last Altered: Monday, May 08, 2017 13:07:58 Pacific Daylight Time

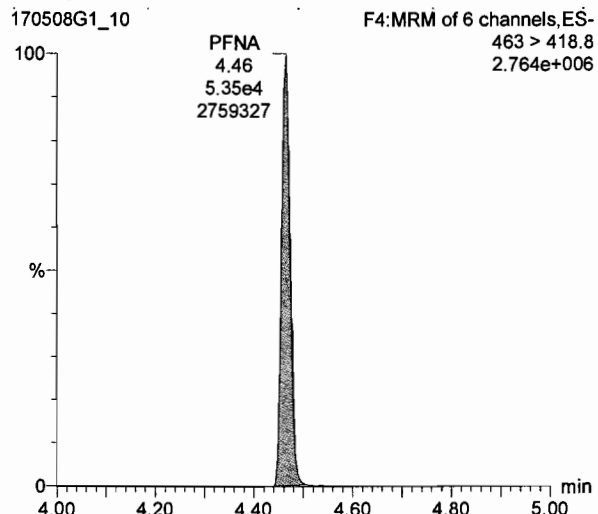
Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_10, Date: 08-May-2017, Time: 11:52:23, ID: ST170508G1-9 PFC CS5 17E0410, Description: PFC CS5 17E0410

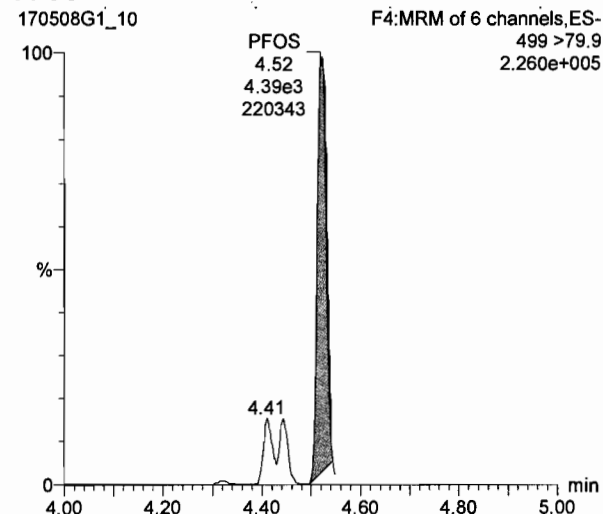
**PFOA**



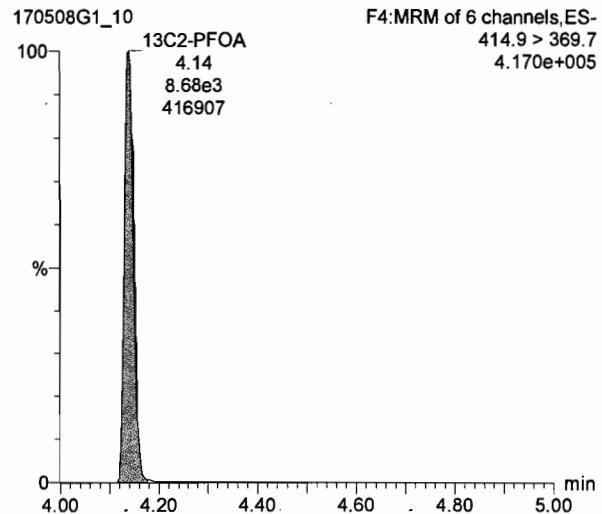
**PFNA**



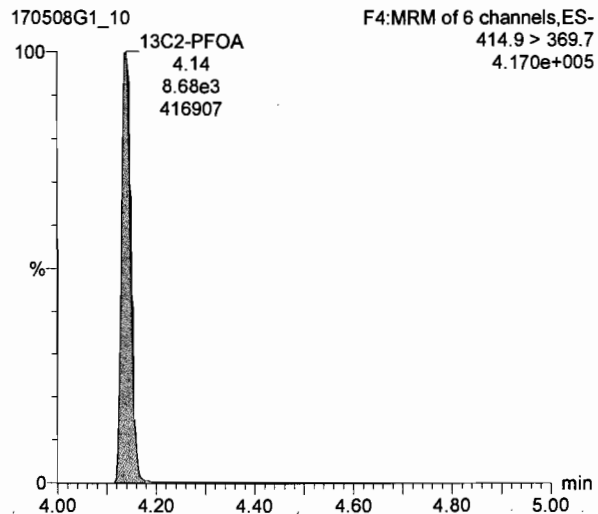
**PFOS**



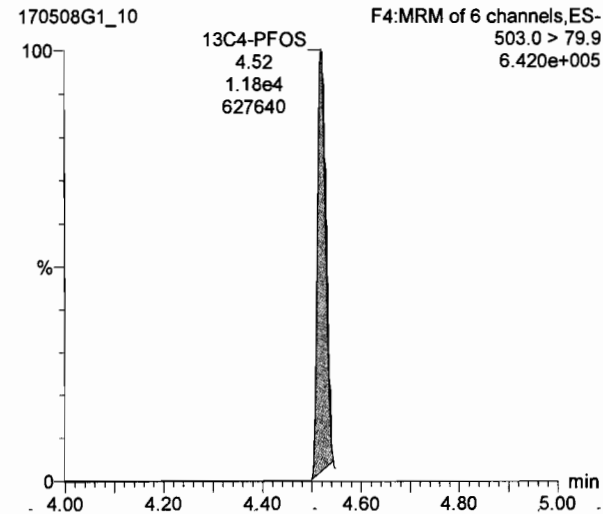
**13C2-PFOA**



**13C2-PFOA**

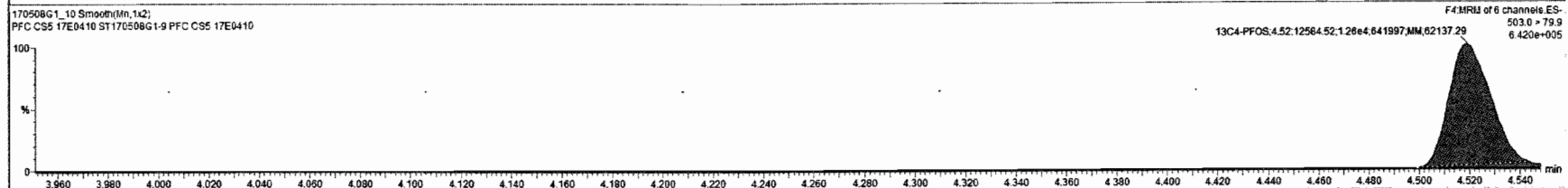
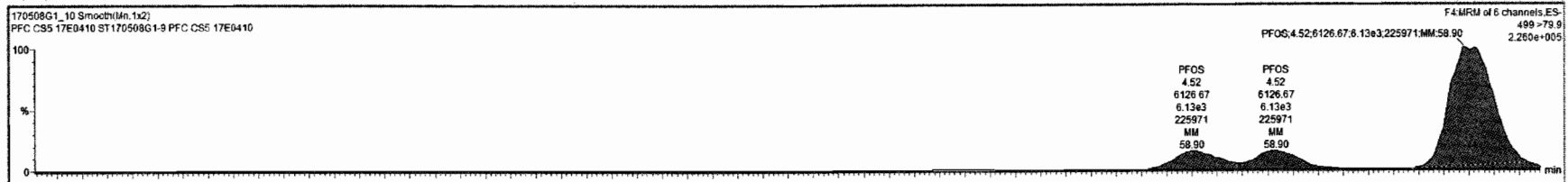


**13C4-PFOS**



170508G1\_10 - ST170508G1-9 PFC CS5 17E0410 - PFC CS5 17E0410

Name	Area	RRF	Method	RT	NA	NV	Conc.	NRep	DL	EMPC
1 PFBS	1.57e4	1.000	2.91				44.2	100	0.00876	
2 PFHpA	3.61e4	1.000	3.75				49.9	99.9	0.00565	
3 PFHzS	1.97e4	1.000	3.86				45.7	100	0.0128	
4 PFOA	2.89e4	1.000	4.14				50.1	100	0.0457	
5 PFOS	6.13e3	1.000	4.52				45.9	99.2	0.0120	
6 PFNA	5.35e4	1.000	4.46				50.0	99.9	0.0197	
7 13C2-PFHzA	3.31e3	0.40	1.000	3.27			9.50	95.0	0.00277	
8 13C2-PFDA	6.22e3	0.75	1.000	4.74			9.58	95.8	0.00510	
9 13C2-PFOA	8.68e3	1.00	1.000	4.14			10.0	100	0.00578	
10 13C4-PFOS	1.26e4	1.00	1.000	4.52			28.7	100	0.00115	



Custom Reporting: Select reports to generate

170508G1\_10 [CAP NUM]

Dataset: Untitled

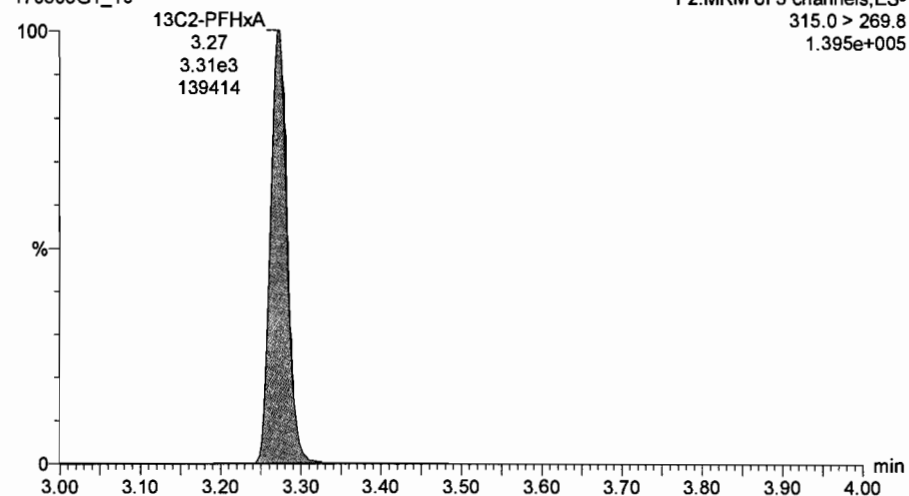
Last Altered: Monday, May 08, 2017 13:07:58 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:10:07 Pacific Daylight Time

Name: 170508G1\_10, Date: 08-May-2017, Time: 11:52:23, ID: ST170508G1-9 PFC CS5 17E0410, Description: PFC CS5 17E0410

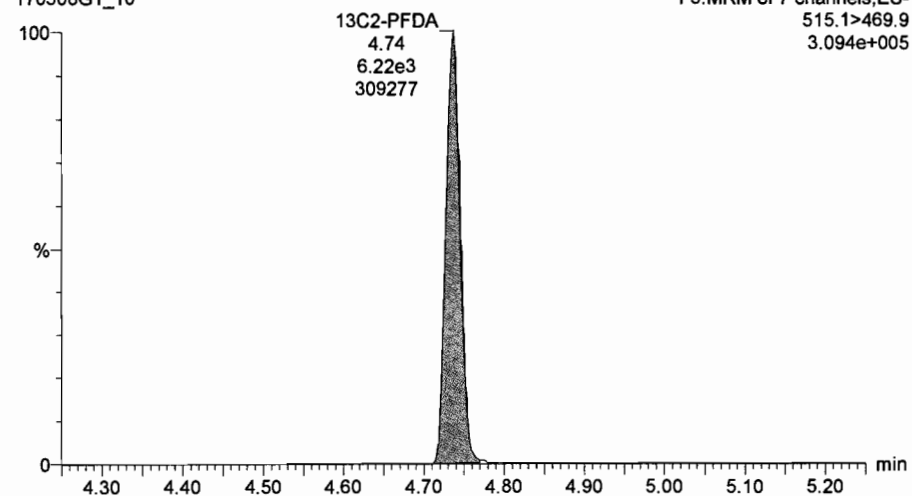
**13C2-PFHxA**

170508G1\_10



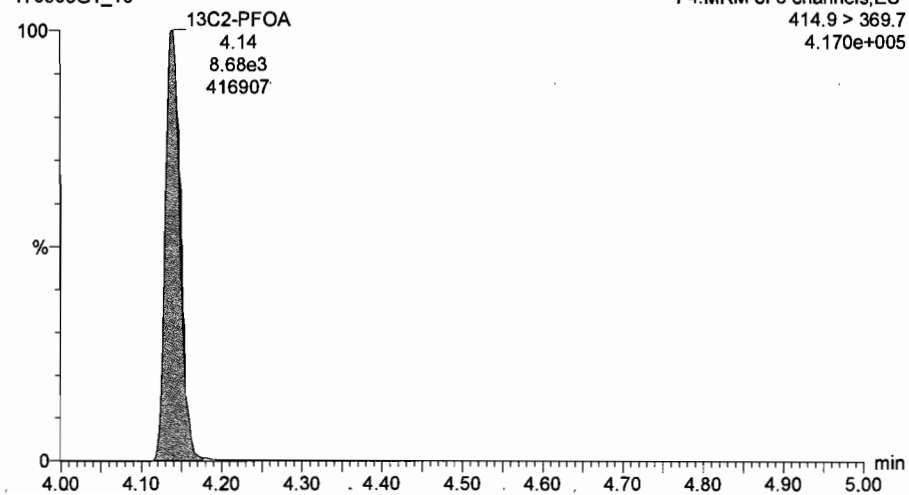
**13C2-PFDA**

170508G1\_10



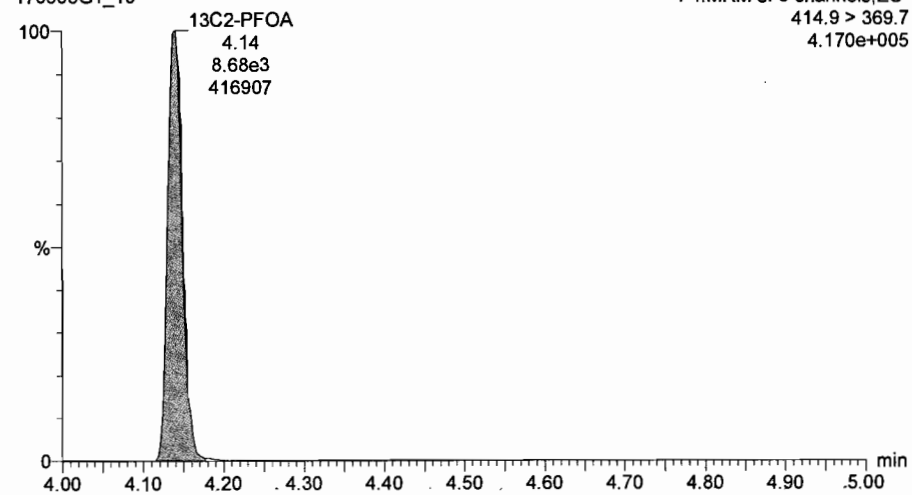
**13C2-PFOA**

170508G1\_10



**13C2-PFOA**

170508G1\_10



Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-12.qld

Last Altered: Monday, May 08, 2017 13:57:21 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:57:38 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Name: 170508G1\_12, Date: 08-May-2017, Time: 12:17:11, ID: SS170508G1-1 PFC SSS 17E0409, Description: PFC SSS 17E0409

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	3.94e3	1.10e4		1.000	2.92	10.3	103.3
2	2 PFHpA	363 > 318.9	7.83e3	8.30e3		1.000	3.76	9.05	90.5
3	3 PFHxS	398.9 > 79.6	4.24e3	1.10e4		1.000	3.87	9.36	93.6
4	4 PFOA	413 > 368.7	5.88e3	8.30e3		1.000	4.14	8.91	89.1
5	5 PFOS	499 > 79.9	1.32e3	1.10e4		1.000	4.53	9.90	99.0
6	6 PFNA	463 > 418.8	1.15e4	8.30e3		1.000	4.47	9.08	90.8
7	7 13C2-PFHxA	315.0 > 269.8	3.05e3	8.30e3	0.401	1.000	3.28	9.15	91.5
8	8 13C2-PFDA	515.1 > 469.9	5.64e3	8.30e3	0.748	1.000	4.74	9.08	90.8
9	9 13C2-PFOA	414.9 > 369.7	8.30e3	8.30e3	1.000	1.000	4.14	10.0	100.0
10	10 13C4-PFOS	503.0 > 79.9	1.10e4	1.10e4	1.000	1.000	4.52	28.7	100.0

70-120  
CP 5/8/17  
✓ AC 5/9/17



Dataset: Untitled

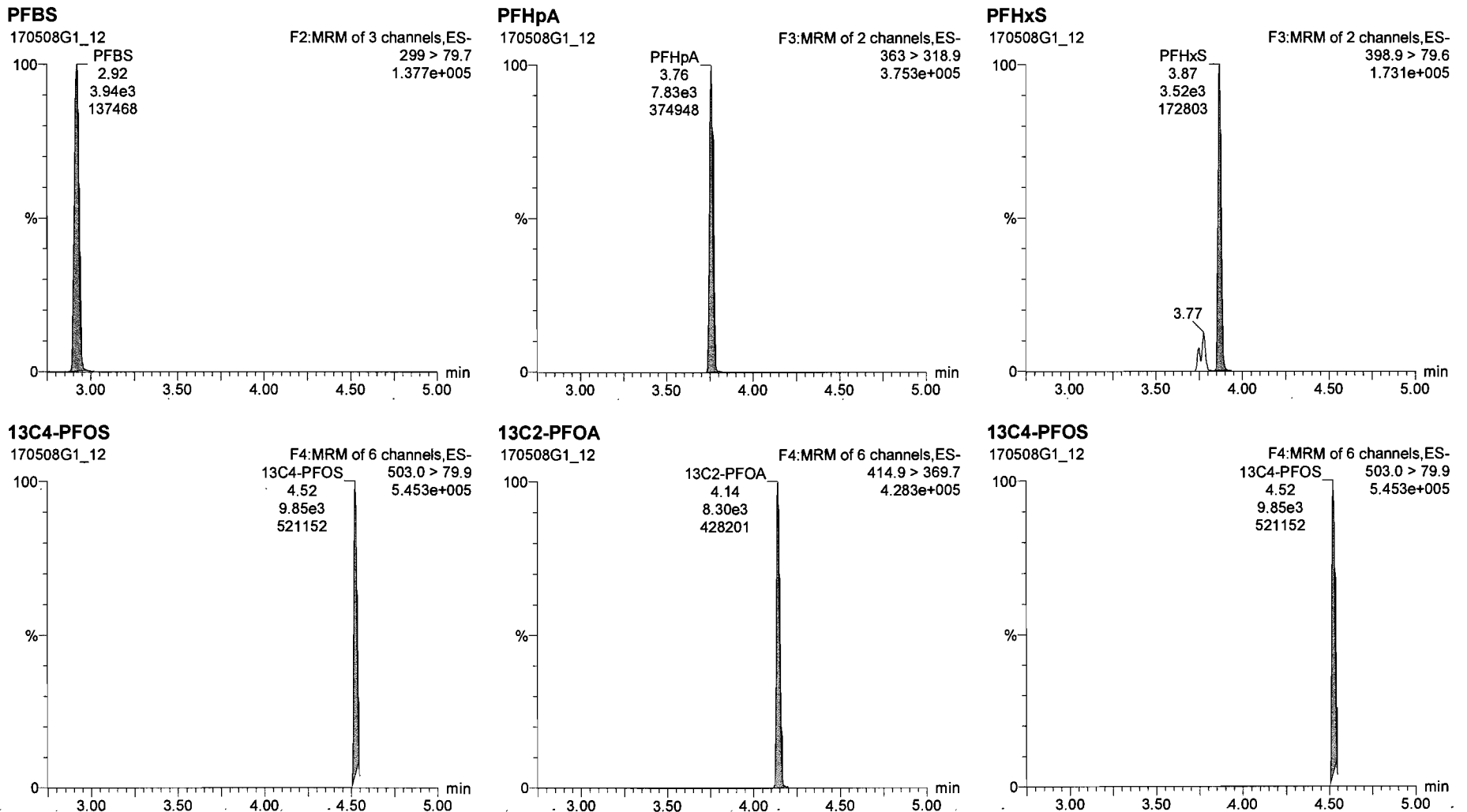
Last Altered: Monday, May 08, 2017 14:00:55 Pacific Daylight Time

Printed: Monday, May 08, 2017 14:00:57 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

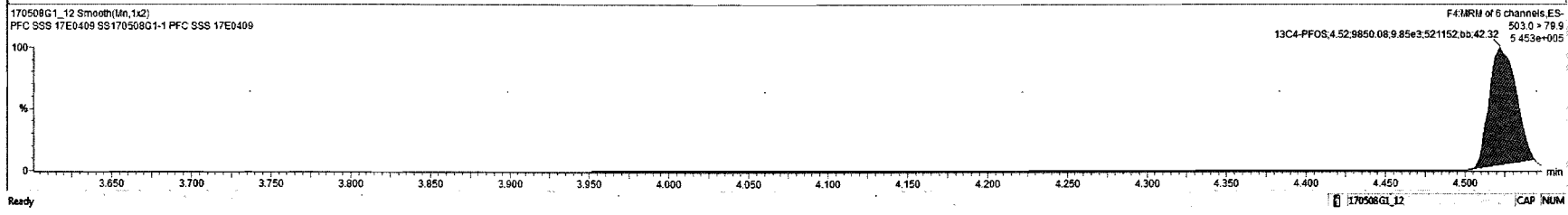
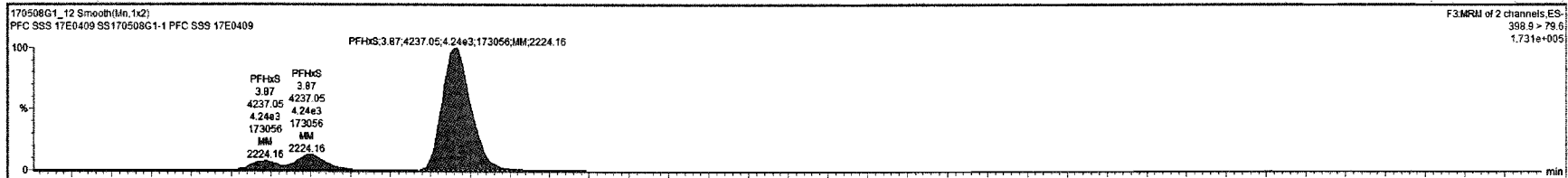
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Name: 170508G1\_12, Date: 08-May-2017, Time: 12:17:11, ID: SS170508G1-1 PFC SSS 17E0409, Description: PFC SSS 17E0409



170508G1\_12 - SS170508G1-1 PFC SSS 17E0409 - PFC SSS 17E0409

Name	Trace	Area	RRP	WAAVL	Pred.RT	RT	Cond	>MDL	%Rec	DL	
1	PFBS	299 > 79.7	3.94e3	1.000	2.91	2.92	11.6	YES	116.4	0.0656827	
2	PFHpA	363 > 316.9	7.83e3	1.000	3.80	3.76	9.05	YES	90.5	0.0073228	
3	PFHxS	388.9 > 79.9	4.24e3	1.000	3.92	3.87	10.3	YES	106.3	0.0007102	
4	PFOA	413 > 368.7	5.88e3	1.000	4.14	4.14	8.91	YES	89.1	0.0153765	
5	PFOS	496 > 79.9	9.51e2	1.000	4.61	4.53	7.96	YES	79.6	0.0341894	
6	PFNA	463 > 418.8	1.15e4	1.000	4.55	4.47	9.08	YES	90.8	0.0026892	
7	13C2-PFHzA	315.0 > 269.8	3.05e3	0.401	1.000	3.28	3.28	9.15	NO	91.5	0.0013674
8	13C2-PFOA	515.1 > 469.9	5.64e3	0.748	1.000	4.85	4.74	9.08	NO	90.8	0.0007102
9	13C2-PFOA	414.9 > 369.7	8.30e3	1.00	1.000	4.22	4.14	10.0	NO	100.0	0.0162350
10	13C4-PFOS	503.0 > 79.9	9.85e3	1.00	1.000	4.61	4.52	28.7	NO	100.0	1.6953291

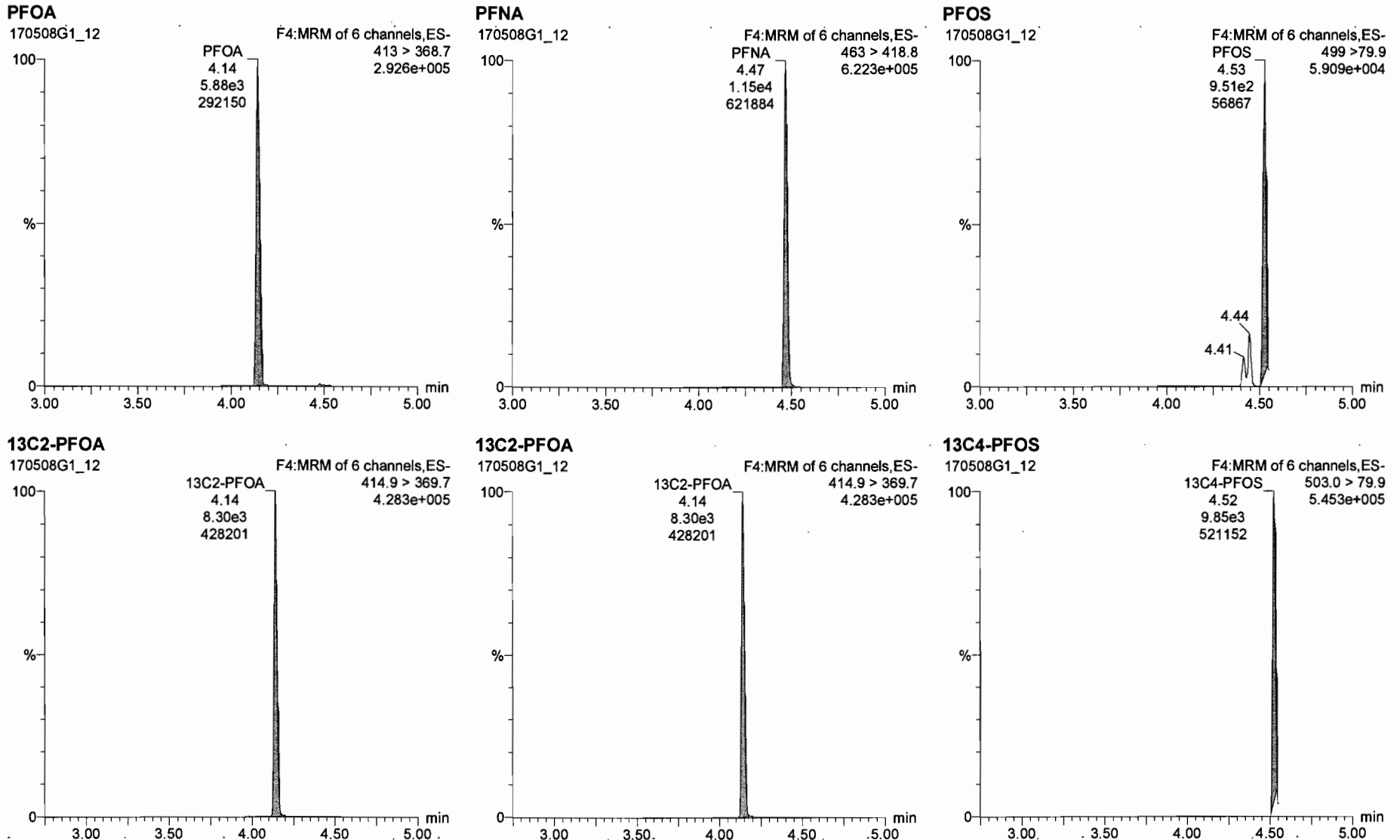


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Last Altered: Monday, May 08, 2017 14:00:55 Pacific Daylight Time

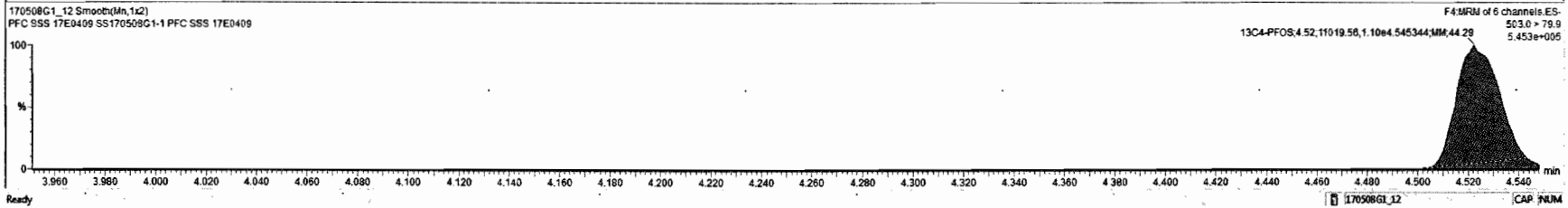
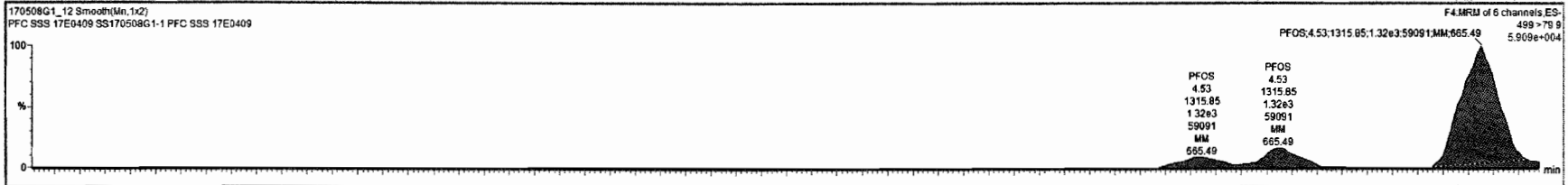
Printed: Monday, May 08, 2017 14:00:57 Pacific Daylight Time

Name: 170508G1\_12, Date: 08-May-2017, Time: 12:17:11, ID: SS170508G1-1 PFC SSS 17E0409, Description: PFC SSS 17E0409



170508G1\_12 - SS170508G1-1 PFC SSS 17E0409 - PFC SSS 17E0409

ID	Name	Time	Area	RRF	WVAL	ProdRT	RT	Conc	MDL	%Rec	DL
1	PFBS	289 > 79.7	3.94e3		1.000	2.91	2.92	10.3	YES	103.3	0.0627488
2	PFNA	383 > 318.0	7.83e3		1.000	3.80	3.78	9.05	YES	90.5	0.0073228
3	PFHxS	388.9 > 79.6	4.24e3		1.000	3.92	3.87	9.36	YES	93.6	0.0083238
4	PFDA	413 > 368.7	5.88e3		1.000	4.14	4.14	8.91	YES	88.1	0.0153785
5	PFOS	499 > 79.9	1.22e4		1.000	4.81	4.80	9.90	YES	99.0	0.0328728
6	PFNA	483 > 418.8	1.15e4		1.000	4.55	4.47	9.88	YES	98.8	0.0026892
7	13C2-PFHxA	315.0 > 289.8	3.05e3	0.401	1.000	3.28	3.28	9.15	NO	91.5	0.0013874
8	13C2-PFDA	515 > 469.8	5.84e3	0.748	1.000	4.85	4.74	9.88	NO	98.8	0.0087192
9	13C2-PFOA	414.9 > 369.7	8.30e3	1.00	1.000	4.22	4.14	10.0	NO	100.0	0.0162350
10	13C4-PFOS	503.0 > 79.9	1.10e4	1.00	1.000	4.61	4.52	28.7	NO	100.0	1.6201227



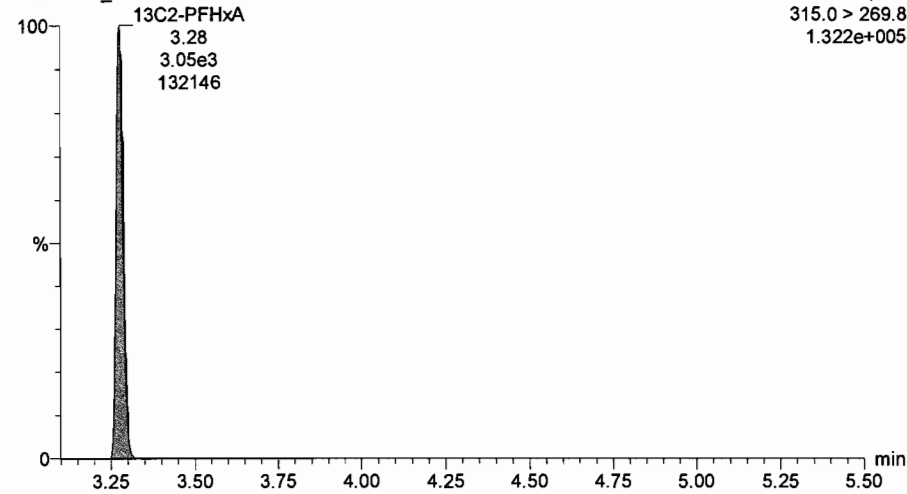
Dataset: Untitled

Last Altered: Monday, May 08, 2017 14:00:55 Pacific Daylight Time  
Printed: Monday, May 08, 2017 14:00:57 Pacific Daylight Time

Name: 170508G1\_12, Date: 08-May-2017, Time: 12:17:11, ID: SS170508G1-1 PFC SSS 17E0409, Description: PFC SSS 17E0409

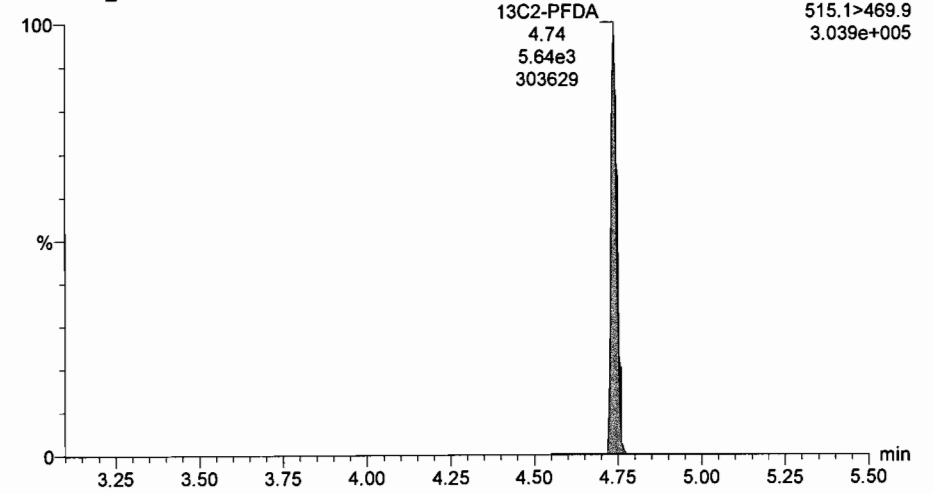
**13C2-PFHxA**

170508G1\_12



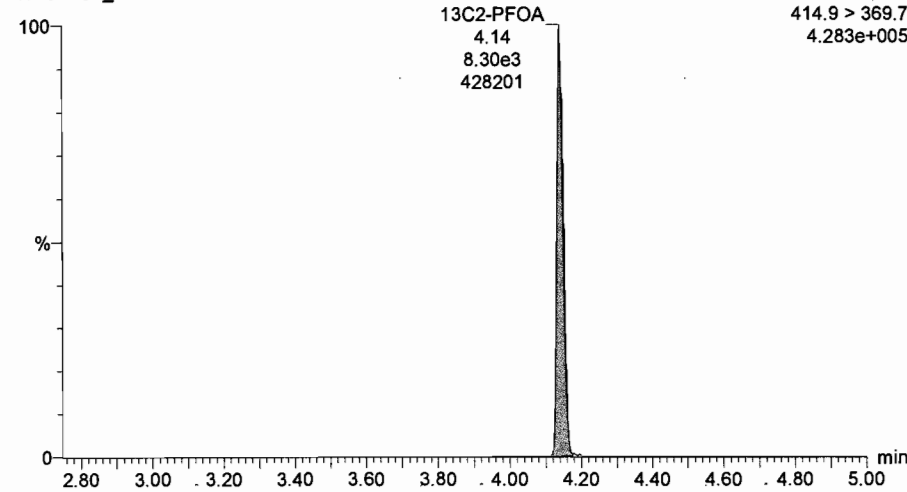
**13C2-PFDA**

170508G1\_12



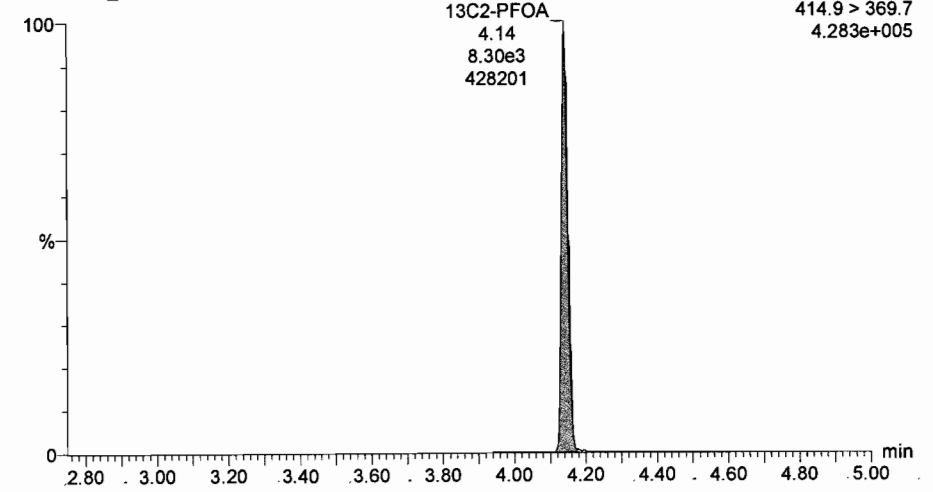
**13C2-PFOA**

170508G1\_12



**13C2-PFOA**

170508G1\_12



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time  
 Printed: Thursday, April 13, 2017 12:42:13 Pacific Daylight Time

Method: Untitled 13 Apr 2017 08:50:47

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_01.cdb 13 Apr 2017 12:34:50

New

21 4/13/17

Compound name: PFBS

Correlation coefficient:  $r = 0.999783$ ,  $r^2 = 0.999567$

Calibration curve:  $2.8207 * x + 8.02989e-005$

Response type: Internal Std ( Ref 7 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	170413G1_2	0.250	2.91	3.86e2	5.68e3	0.302	20.6	3.40
2	170413G1_3	0.500	2.91	6.77e2	6.83e3	0.439	-12.2	2.48
3	170413G1_4	1.00	2.91	1.47e3	6.78e3	0.964	-3.6	2.72
4	170413G1_5	2.00	2.89	2.88e3	6.61e3	1.93	-3.5	2.72
5	170413G1_6	5.00	2.91	8.03e3	7.49e3	4.75	-4.9	2.68
6	170413G1_7	10.0	2.91	1.42e4	6.01e3	10.4	4.4	2.95
7	170413G1_8	50.0	2.91	6.68e4	6.01e3	49.2	-1.5	2.78
8	170413G1_9	100	2.91	1.29e5	5.69e3	101	0.7	2.84

28 4/13/17

✓ AC 4/13/17

Compound name: PFHpA

Correlation coefficient:  $r = 0.999047$ ,  $r^2 = 0.998095$

Calibration curve:  $1.92754 * x + 0.0959906$

Response type: Internal Std ( Ref 8 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	170413G1_2	0.250	3.80	4.81e2	1.02e4	0.257	2.9	2.37
2	170413G1_3	0.500	3.80	9.84e2	1.19e4	0.485	-3.0	2.06
3	170413G1_4	1.00	3.80	2.10e3	1.32e4	0.977	-2.3	1.98
4	170413G1_5	2.00	3.80	3.82e3	1.28e4	1.88	-6.0	1.86
5	170413G1_6	5.00	3.80	1.07e4	1.43e4	4.80	-4.0	1.87
6	170413G1_7	10.0	3.80	1.92e4	1.07e4	11.5	15.3	2.23
7	170413G1_8	50.0	3.80	9.23e4	1.24e4	48.4	-3.3	1.87
8	170413G1_9	100	3.80	1.74e5	1.12e4	100	0.5	1.94

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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**Compound name: PFHxS**

Correlation coefficient:  $r = 0.998990$ ,  $r^2 = 0.997981$

Calibration curve:  $2.40269 * x + 0.0975035$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	3.92	2.83e2	5.24e3	0.241	-3.7	2.70
2	2 170413G1_3	0.500	3.92	6.53e2	6.49e3	0.483	-3.4	2.52
3	3 170413G1_4	1.00	3.92	1.31e3	6.68e3	0.982	-1.8	2.46
4	4 170413G1_5	2.00	3.92	2.29e3	6.33e3	1.84	-7.8	2.26
5	5 170413G1_6	5.00	3.92	6.93e3	6.81e3	5.25	5.0	2.54
6	6 170413G1_7	10.0	3.92	1.18e4	5.52e3	11.1	10.7	2.67
7	7 170413G1_8	50.0	3.92	6.21e4	6.21e3	52.0	4.1	2.50
8	8 170413G1_9	100	3.92	1.17e5	6.30e3	96.8	-3.2	2.33

**Compound name: PFOA**

Correlation coefficient:  $r = 0.999638$ ,  $r^2 = 0.999277$

Calibration curve:  $0.969815 * x + 0.0817292$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	4.21	5.56e2	2.05e4	0.266	6.4	1.36
2	2 170413G1_3	0.500	4.21	1.15e3	2.64e4	0.479	-4.3	1.09
3	3 170413G1_4	1.00	4.21	2.37e3	2.99e4	0.934	-6.6	0.988
4	4 170413G1_5	2.00	4.21	4.28e3	2.68e4	1.98	-1.1	1.00
5	5 170413G1_6	5.00	4.21	1.19e4	3.11e4	4.84	-3.3	0.954
6	6 170413G1_7	10.0	4.21	2.03e4	2.39e4	10.9	8.7	1.06
7	7 170413G1_8	50.0	4.21	1.07e5	2.72e4	50.7	1.4	0.985
8	8 170413G1_9	100	4.21	2.11e5	2.75e4	98.7	-1.3	0.958

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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**Compound name: PFNA**

Correlation coefficient:  $r = 0.998376$ ,  $r^2 = 0.996755$

Calibration curve:  $3.06565 * x + 0.157679$

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	4.56	3.58e2	4.50e3	0.273	9.1	3.97
2	2 170413G1_3	0.500	4.55	1.13e3	8.38e3	0.501	0.2	3.39
3	3 170413G1_4	1.00	4.55	2.15e3	9.20e3	0.900	-10.0	2.92
4	4 170413G1_5	2.00	4.56	3.73e3	8.28e3	1.79	-10.6	2.82
5	5 170413G1_6	5.00	4.56	1.11e4	9.37e3	4.76	-4.8	2.95
6	6 170413G1_7	10.0	4.56	2.14e4	7.60e3	11.4	14.4	3.52
7	7 170413G1_8	50.0	4.56	1.16e5	9.00e3	52.7	5.3	3.23
8	8 170413G1_9	100	4.56	2.33e5	9.85e3	96.4	-3.6	2.96

**Compound name: PFOS**

Correlation coefficient:  $r = 0.999733$ ,  $r^2 = 0.999466$

Calibration curve:  $0.374993 * x + -0.0295857$

Response type: Internal Std ( Ref 12 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	4.61	2.31e1	4.25e3	0.260	3.8	0.271
2	2 170413G1_3	0.500	4.62	9.10e1	7.96e3	0.460	-8.0	0.286
3	3 170413G1_4	1.00	4.62	2.98e2	1.06e4	1.02	1.5	0.351
4	4 170413G1_5	2.00	4.62	4.79e2	8.66e3	1.92	-4.0	0.345
5	5 170413G1_6	5.00	4.62	1.41e3	9.15e3	5.22	4.4	0.386
6	6 170413G1_7	10.0	4.62	2.81e3	9.37e3	10.1	0.9	0.376
7	7 170413G1_8	50.0	4.62	1.43e4	9.27e3	51.4	2.9	0.385
8	8 170413G1_9	100	4.62	3.52e4	1.19e4	98.3	-1.7	0.369



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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**Compound name: 13C3-PFBS**

Response Factor: 0.45258

RRF SD: 0.0175204, Relative SD: 3.87123

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	2.91	5.68e3	1.24e4	12.6	1.2	0.458
2	2 170413G1_3	12.5	2.90	6.83e3	1.46e4	12.9	3.4	0.468
3	3 170413G1_4	12.5	2.90	6.78e3	1.45e4	12.9	3.5	0.468
4	4 170413G1_5	12.5	2.89	6.61e3	1.48e4	12.3	-1.5	0.446
5	5 170413G1_6	12.5	2.91	7.49e3	1.61e4	12.9	3.0	0.466
6	6 170413G1_7	12.5	2.91	6.01e3	1.30e4	12.7	1.9	0.461
7	7 170413G1_8	12.5	2.90	6.01e3	1.41e4	11.8	-5.7	0.427
8	8 170413G1_9	12.5	2.91	5.69e3	1.33e4	11.8	-5.8	0.427

**Compound name: 13C4-PFHpA**

Response Factor: 0.85684

RRF SD: 0.0369584, Relative SD: 4.31333

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.80	1.02e4	1.24e4	12.0	-4.3	0.820
2	2 170413G1_3	12.5	3.80	1.19e4	1.46e4	11.9	-4.7	0.817
3	3 170413G1_4	12.5	3.80	1.32e4	1.45e4	13.3	6.7	0.915
4	4 170413G1_5	12.5	3.80	1.28e4	1.48e4	12.6	1.2	0.867
5	5 170413G1_6	12.5	3.79	1.43e4	1.61e4	13.0	4.3	0.894
6	6 170413G1_7	12.5	3.80	1.07e4	1.30e4	12.0	-3.9	0.823
7	7 170413G1_8	12.5	3.80	1.24e4	1.41e4	12.8	2.5	0.878
8	8 170413G1_9	12.5	3.80	1.12e4	1.33e4	12.3	-1.8	0.841

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**Compound name: 18O2-PFHxS**

Response Factor: 0.439536

RRF SD: 0.0188125, Relative SD: 4.28009

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.92	5.24e3	1.24e4	12.0	-3.9	0.422
2	2 170413G1_3	12.5	3.92	6.49e3	1.46e4	12.6	1.1	0.444
3	3 170413G1_4	12.5	3.92	6.68e3	1.45e4	13.1	4.9	0.461
4	4 170413G1_5	12.5	3.92	6.33e3	1.48e4	12.2	-2.8	0.427
5	5 170413G1_6	12.5	3.92	6.81e3	1.61e4	12.1	-3.4	0.424
6	6 170413G1_7	12.5	3.92	5.52e3	1.30e4	12.1	-3.6	0.424
7	7 170413G1_8	12.5	3.92	6.21e3	1.41e4	12.5	0.3	0.441
8	8 170413G1_9	12.5	3.92	6.30e3	1.33e4	13.4	7.4	0.472

**Compound name: 13C2-PFOA**

Response Factor: 3.36576

RRF SD: 0.156173, Relative SD: 4.64006

Response type: Internal Std ( Ref 15 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.21	2.05e4	6.21e3	12.2	-2.1	3.29
2	2 170413G1_3	12.5	4.21	2.64e4	7.91e3	12.4	-0.9	3.34
3	3 170413G1_4	12.5	4.21	2.99e4	8.27e3	13.4	7.6	3.62
4	4 170413G1_5	12.5	4.21	2.68e4	8.34e3	11.9	-4.6	3.21
5	5 170413G1_6	12.5	4.21	3.11e4	8.96e3	12.9	3.1	3.47
6	6 170413G1_7	12.5	4.21	2.39e4	6.78e3	13.1	4.6	3.52
7	7 170413G1_8	12.5	4.21	2.72e4	8.56e3	11.8	-5.7	3.17
8	8 170413G1_9	12.5	4.21	2.75e4	8.33e3	12.3	-1.9	3.30

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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**Compound name: 13C5-PFNA**

Response Factor: 0.908503

RRF SD: 0.0697745, Relative SD: 7.68015

Response type: Internal Std ( Ref 16 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.56	4.50e3	5.85e3	10.6	-15.3	0.769
2	2 170413G1_3	12.5	4.55	8.38e3	8.75e3	13.2	5.4	0.958
3	3 170413G1_4	12.5	4.55	9.20e3	9.33e3	13.6	8.5	0.985
4	4 170413G1_5	12.5	4.56	8.28e3	8.76e3	13.0	4.0	0.945
5	5 170413G1_6	12.5	4.55	9.37e3	1.02e4	12.6	0.7	0.915
6	6 170413G1_7	12.5	4.56	7.60e3	8.88e3	11.8	-5.8	0.856
7	7 170413G1_8	12.5	4.55	9.00e3	9.46e3	13.1	4.7	0.951
8	8 170413G1_9	12.5	4.55	9.85e3	1.11e4	12.2	-2.2	0.889

**Compound name: 13C8-PFOS**

Response Factor: 1.30448

RRF SD: 0.0408772, Relative SD: 3.13361

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.62	4.25e3	3.24e3	12.6	0.6	1.31
2	2 170413G1_3	12.5	4.61	7.96e3	5.92e3	12.9	3.1	1.34
3	3 170413G1_4	12.5	4.62	1.06e4	7.69e3	13.2	5.8	1.38
4	4 170413G1_5	12.5	4.62	8.66e3	6.74e3	12.3	-1.4	1.29
5	5 170413G1_6	12.5	4.62	9.15e3	7.06e3	12.4	-0.6	1.30
6	6 170413G1_7	12.5	4.62	9.37e3	7.43e3	12.1	-3.3	1.26
7	7 170413G1_8	12.5	4.62	9.27e3	7.17e3	12.4	-0.9	1.29
8	8 170413G1_9	12.5	4.62	1.19e4	9.46e3	12.1	-3.3	1.26

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**Compound name: 13C5-PFHxA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 13 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.28	2.06e4	2.06e4	12.5	0.0	1.00
2	2 170413G1_3	12.5	3.28	2.34e4	2.34e4	12.5	0.0	1.00
3	3 170413G1_4	12.5	3.28	2.38e4	2.38e4	12.5	0.0	1.00
4	4 170413G1_5	12.5	3.28	2.32e4	2.32e4	12.5	0.0	1.00
5	5 170413G1_6	12.5	3.28	2.53e4	2.53e4	12.5	0.0	1.00
6	6 170413G1_7	12.5	3.28	2.06e4	2.06e4	12.5	0.0	1.00
7	7 170413G1_8	12.5	3.28	2.16e4	2.16e4	12.5	0.0	1.00
8	8 170413G1_9	12.5	3.28	2.04e4	2.04e4	12.5	0.0	1.00

**Compound name: 13C3-PFHxS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.92	1.24e4	1.24e4	12.5	0.0	1.00
2	2 170413G1_3	12.5	3.92	1.46e4	1.46e4	12.5	0.0	1.00
3	3 170413G1_4	12.5	3.92	1.45e4	1.45e4	12.5	0.0	1.00
4	4 170413G1_5	12.5	3.92	1.48e4	1.48e4	12.5	0.0	1.00
5	5 170413G1_6	12.5	3.92	1.61e4	1.61e4	12.5	0.0	1.00
6	6 170413G1_7	12.5	3.92	1.30e4	1.30e4	12.5	0.0	1.00
7	7 170413G1_8	12.5	3.92	1.41e4	1.41e4	12.5	0.0	1.00
8	8 170413G1_9	12.5	3.92	1.33e4	1.33e4	12.5	0.0	1.00

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**Compound name: 13C8-PFOA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 15 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.21	6.21e3	6.21e3	12.5	0.0	1.00
2	2 170413G1_3	12.5	4.21	7.91e3	7.91e3	12.5	0.0	1.00
3	3 170413G1_4	12.5	4.21	8.27e3	8.27e3	12.5	0.0	1.00
4	4 170413G1_5	12.5	4.21	8.34e3	8.34e3	12.5	0.0	1.00
5	5 170413G1_6	12.5	4.21	8.96e3	8.96e3	12.5	0.0	1.00
6	6 170413G1_7	12.5	4.21	6.78e3	6.78e3	12.5	0.0	1.00
7	7 170413G1_8	12.5	4.21	8.56e3	8.56e3	12.5	0.0	1.00
8	8 170413G1_9	12.5	4.21	8.33e3	8.33e3	12.5	0.0	1.00

**Compound name: 13C9-PFNA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 16 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.56	5.85e3	5.85e3	12.5	0.0	1.00
2	2 170413G1_3	12.5	4.55	8.75e3	8.75e3	12.5	0.0	1.00
3	3 170413G1_4	12.5	4.55	9.33e3	9.33e3	12.5	0.0	1.00
4	4 170413G1_5	12.5	4.56	8.76e3	8.76e3	12.5	0.0	1.00
5	5 170413G1_6	12.5	4.55	1.02e4	1.02e4	12.5	0.0	1.00
6	6 170413G1_7	12.5	4.56	8.88e3	8.88e3	12.5	0.0	1.00
7	7 170413G1_8	12.5	4.55	9.46e3	9.46e3	12.5	0.0	1.00
8	8 170413G1_9	12.5	4.55	1.11e4	1.11e4	12.5	0.0	1.00

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**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc	%Dev	RRF
1	1 170413G1_2	12.5	4.62	3.24e3	3.24e3	12.5	0.0	1.00
2	2 170413G1_3	12.5	4.62	5.92e3	5.92e3	12.5	0.0	1.00
3	3 170413G1_4	12.5	4.62	7.69e3	7.69e3	12.5	0.0	1.00
4	4 170413G1_5	12.5	4.62	6.74e3	6.74e3	12.5	0.0	1.00
5	5 170413G1_6	12.5	4.62	7.06e3	7.06e3	12.5	0.0	1.00
6	6 170413G1_7	12.5	4.62	7.43e3	7.43e3	12.5	0.0	1.00
7	7 170413G1_8	12.5	4.62	7.17e3	7.17e3	12.5	0.0	1.00
8	8 170413G1_9	12.5	4.62	9.46e3	9.46e3	12.5	0.0	1.00

Dataset: Untitled

Last Altered: Thursday, April 13, 2017 13:53:17 Pacific Daylight Time

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Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 08:50:47

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170413G1_1	IPA	13-Apr-17	09:26:27
2	170413G1_2	ST170413G1-1 PFC CS-2 17D1301	13-Apr-17	09:39:06
3	170413G1_3	ST170413G1-2 PFC CS-1 17D1302	13-Apr-17	09:51:40
4	170413G1_4	ST170413G1-3 PFC CS0 17D1303	13-Apr-17	10:04:14
5	170413G1_5	ST170413G1-4 PFC CS1 17D1304	13-Apr-17	10:19:55
6	170413G1_6	ST170413G1-5 PFC CS2 17D1305	13-Apr-17	10:32:30
7	170413G1_7	ST170413G1-6 PFC CS3 17D1306	13-Apr-17	10:45:07
8	170413G1_8	ST170413G1-7 PFC CS4 17D1307	13-Apr-17	10:57:43
9	170413G1_9	ST170413G1-8 PFC CS5 17D1308	13-Apr-17	11:10:56
10	170413G1_10	IPA	13-Apr-17	11:23:39
11	170413G1_11	SS170413G1-1 PFC SSS 17D1309	13-Apr-17	11:36:16
12	170413G1_12	IPA	13-Apr-17	11:48:50
13	170413G1_13	B7D0041-BS1 OPR 0.25	13-Apr-17	12:01:27
14	170413G1_14	IPA	13-Apr-17	12:14:01
15	170413G1_15	B7D0041-BLK1 Method Blank 0.25	13-Apr-17	12:26:40
16	170413G1_16	1700428-01 Kitchen 0.26378	13-Apr-17	12:39:16
17	170413G1_17	IPA	13-Apr-17	12:51:52
18	170413G1_18	ST170413G1-9 PFC CS3 17D1306	13-Apr-17	13:04:29
19	170413G1_19	IPA	13-Apr-17	13:17:06

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:41:32 Pacific Daylight Time

Method: Untitled 13 Apr 2017 08:50:47

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_Old.cdb 13 Apr 2017 12:34:50

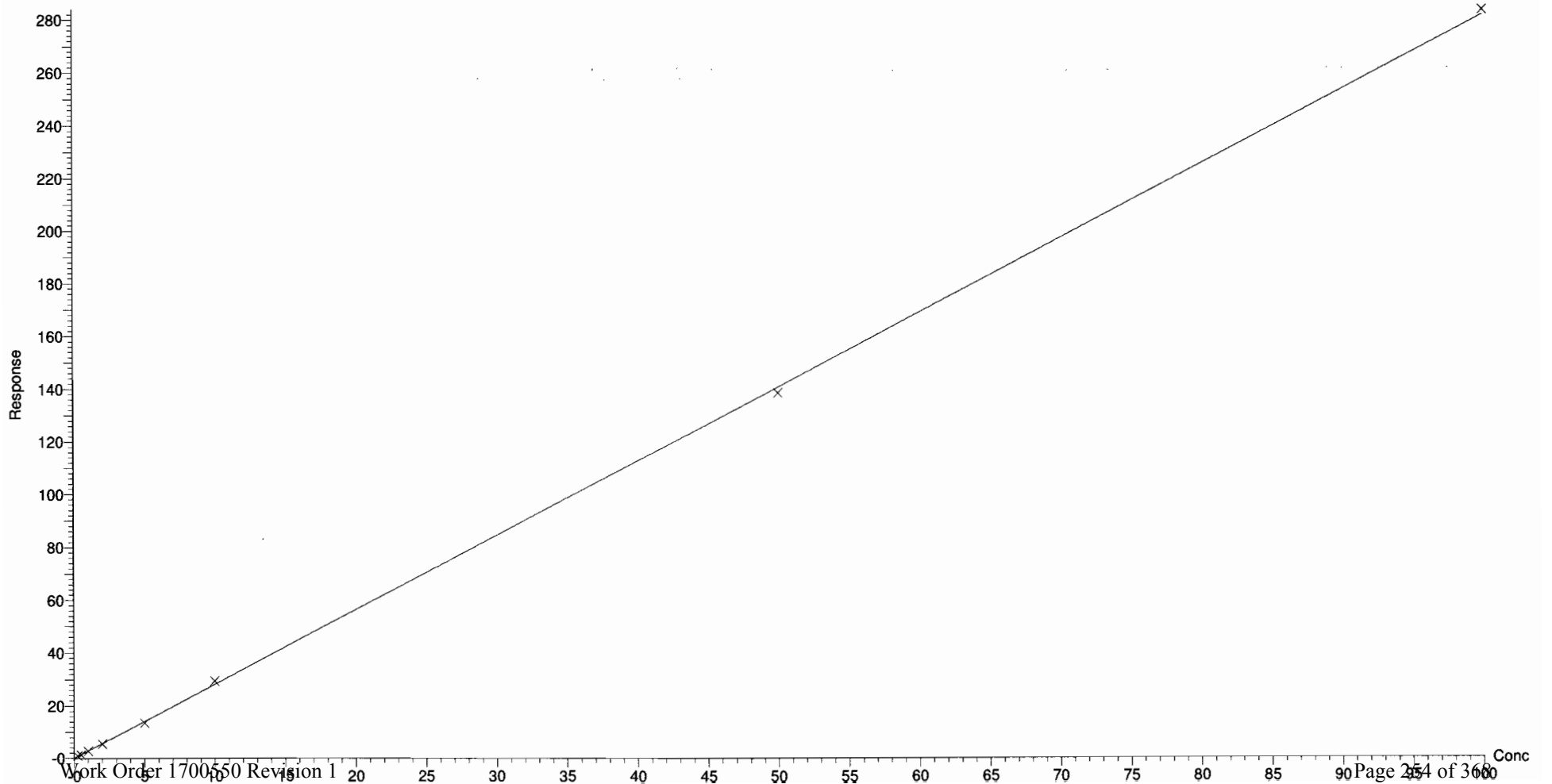
Compound name: PFBS

Correlation coefficient:  $r = 0.999783$ ,  $r^2 = 0.999567$

Calibration curve:  $2.8207 * x + 8.02989e-005$

Response type: Internal Std ( Ref 7 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None





Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:41:32 Pacific Daylight Time

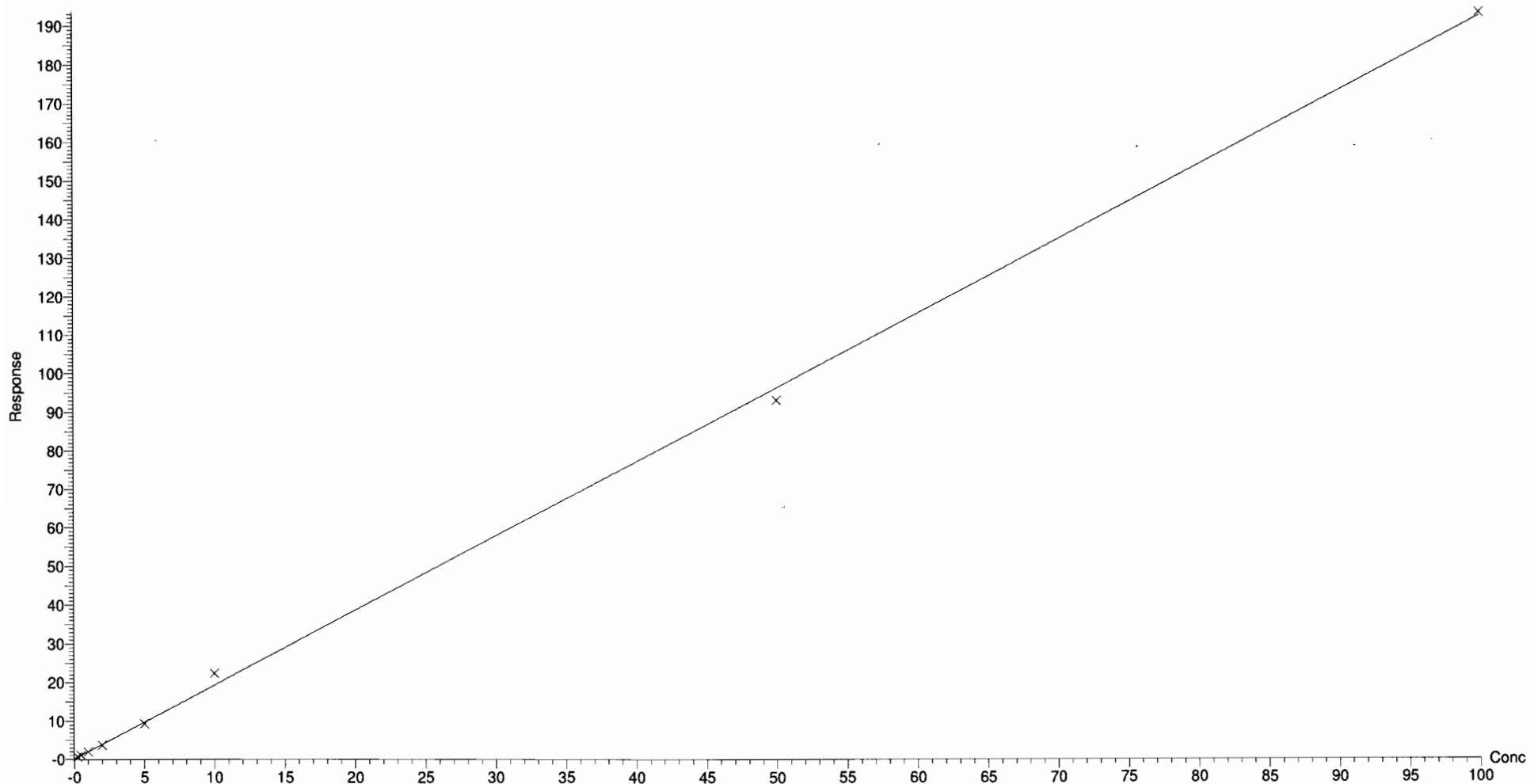
Compound name: PFHpA

Correlation coefficient:  $r = 0.999047$ ,  $r^2 = 0.998095$

Calibration curve:  $1.92754 * x + 0.0959906$

Response type: Internal Std ( Ref 8 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:41:32 Pacific Daylight Time

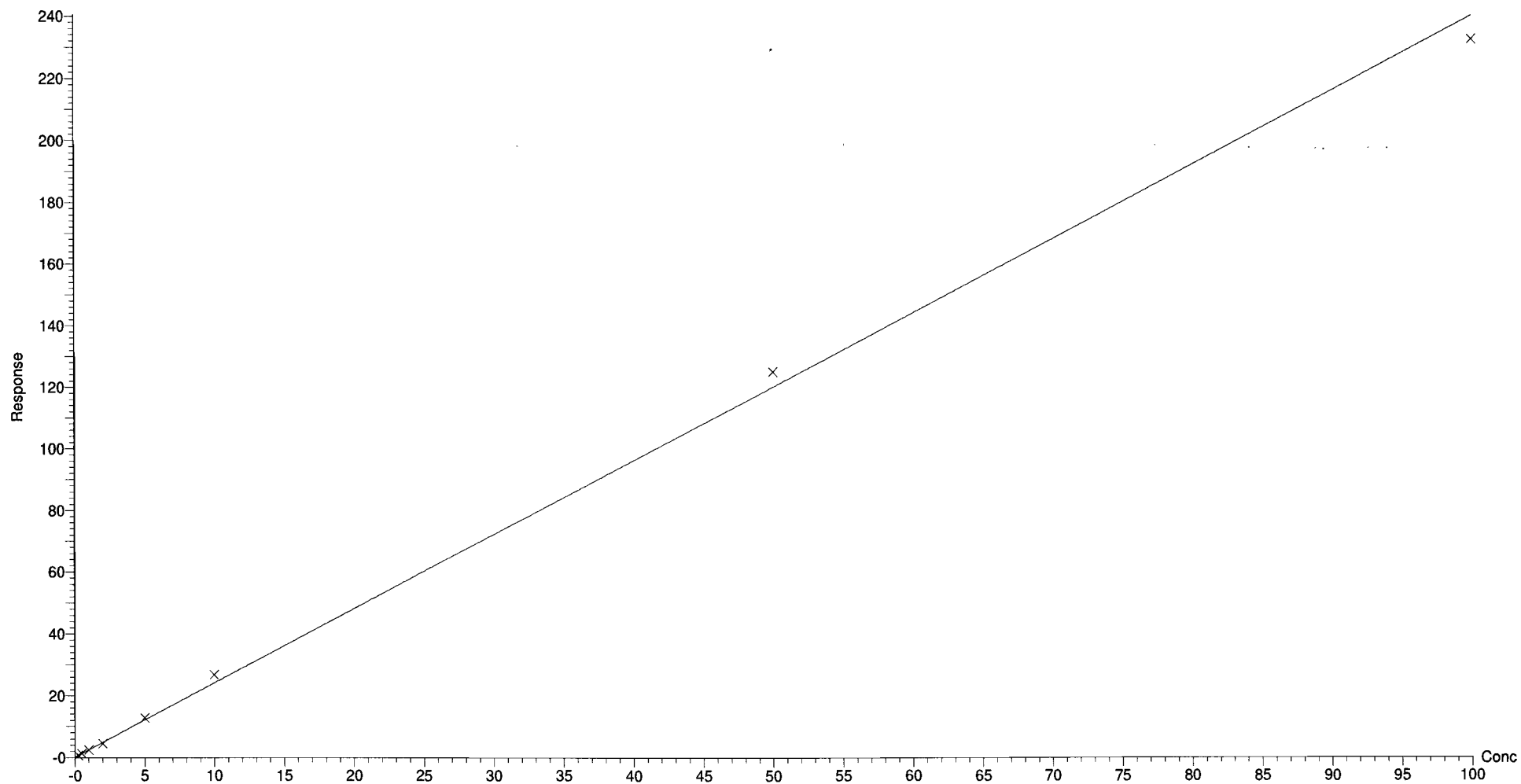
Compound name: PFHxS

Correlation coefficient:  $r = 0.998990$ ,  $r^2 = 0.997981$

Calibration curve:  $2.40269 * x + 0.0975035$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:41:32 Pacific Daylight Time

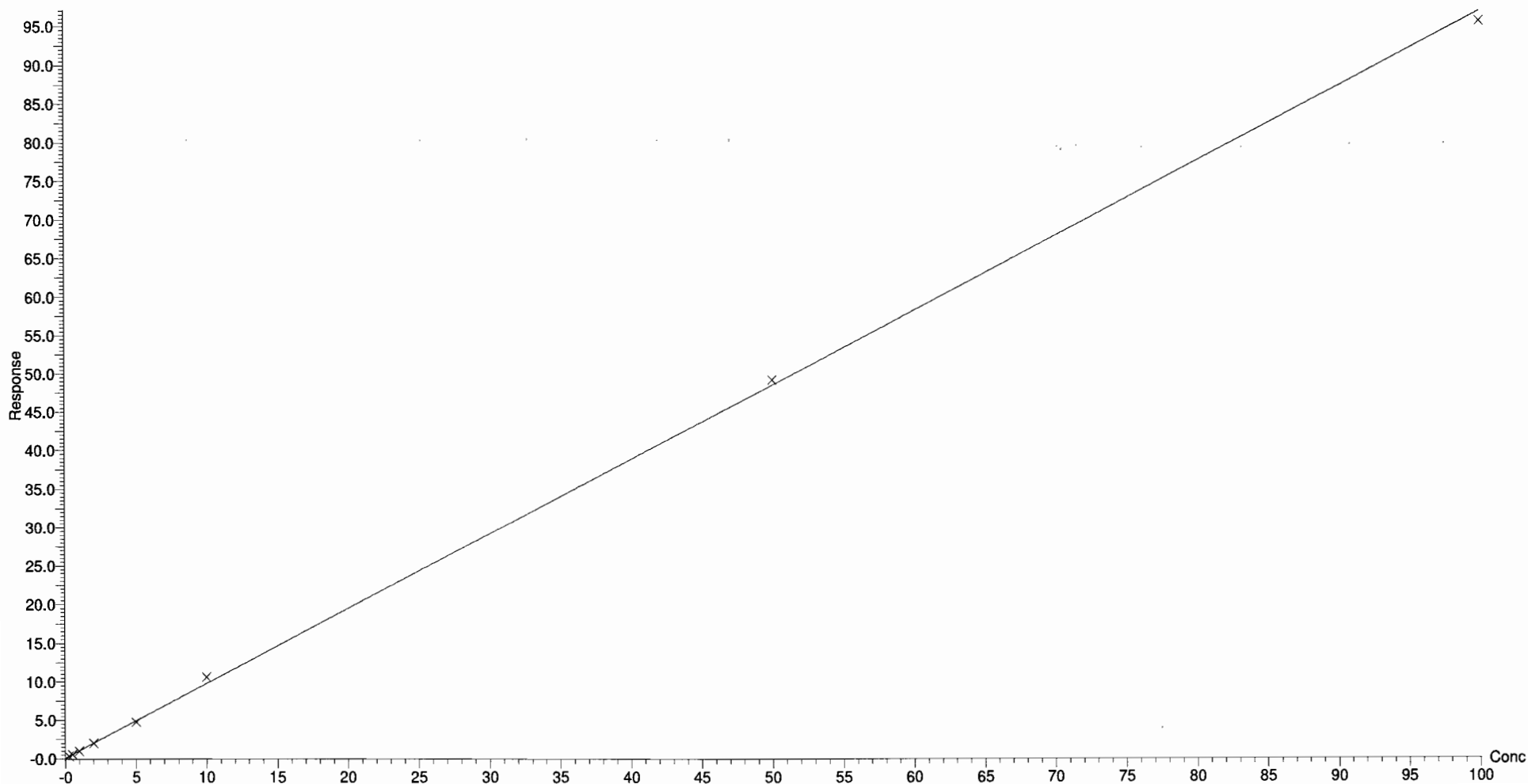
Compound name: PFOA

Correlation coefficient:  $r = 0.999638$ ,  $r^2 = 0.999277$

Calibration curve:  $0.969815 * x + 0.0817292$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:41:32 Pacific Daylight Time

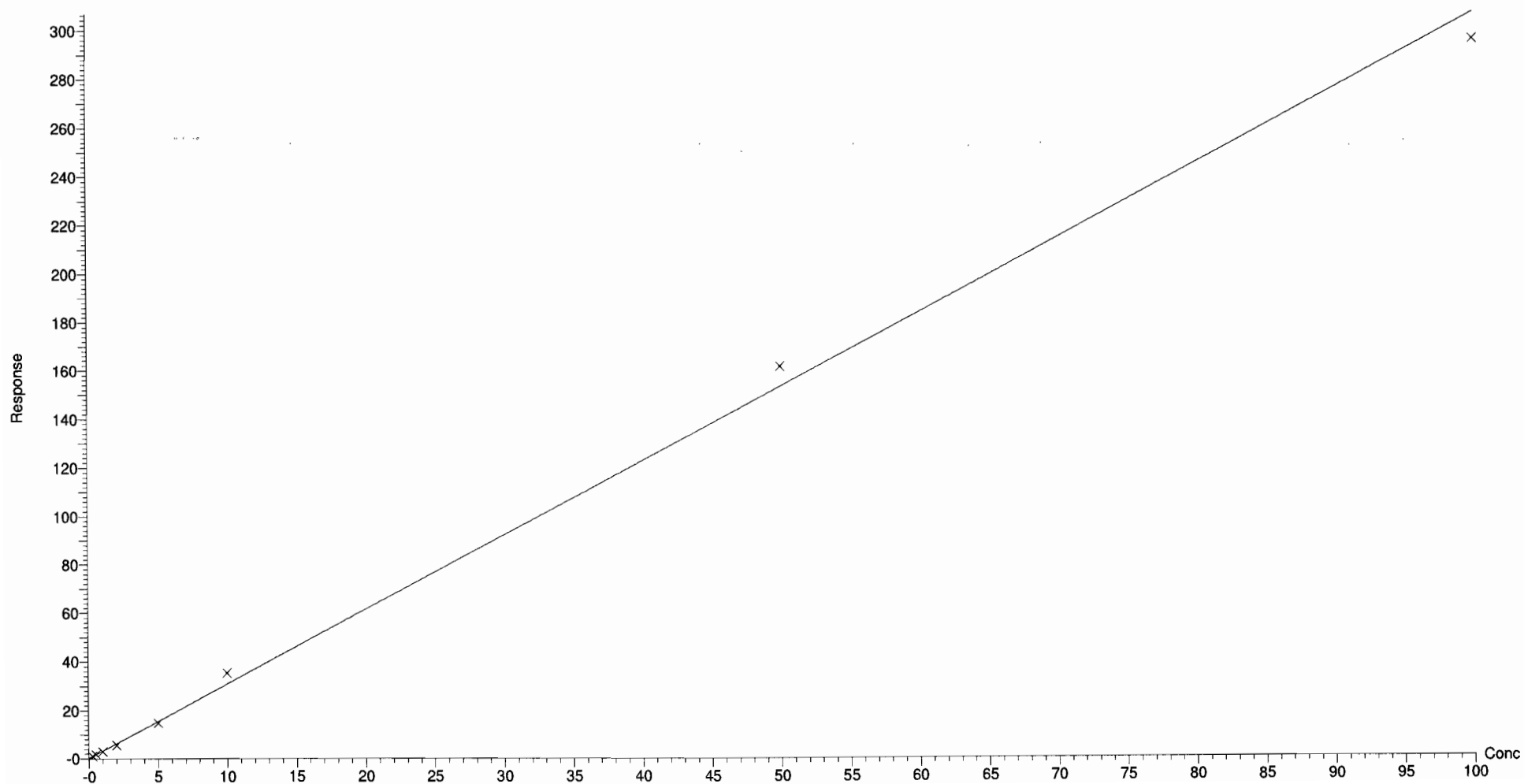
Compound name: PFNA

Correlation coefficient:  $r = 0.998376$ ,  $r^2 = 0.996755$

Calibration curve:  $3.06565 * x + 0.157679$

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:41:32 Pacific Daylight Time

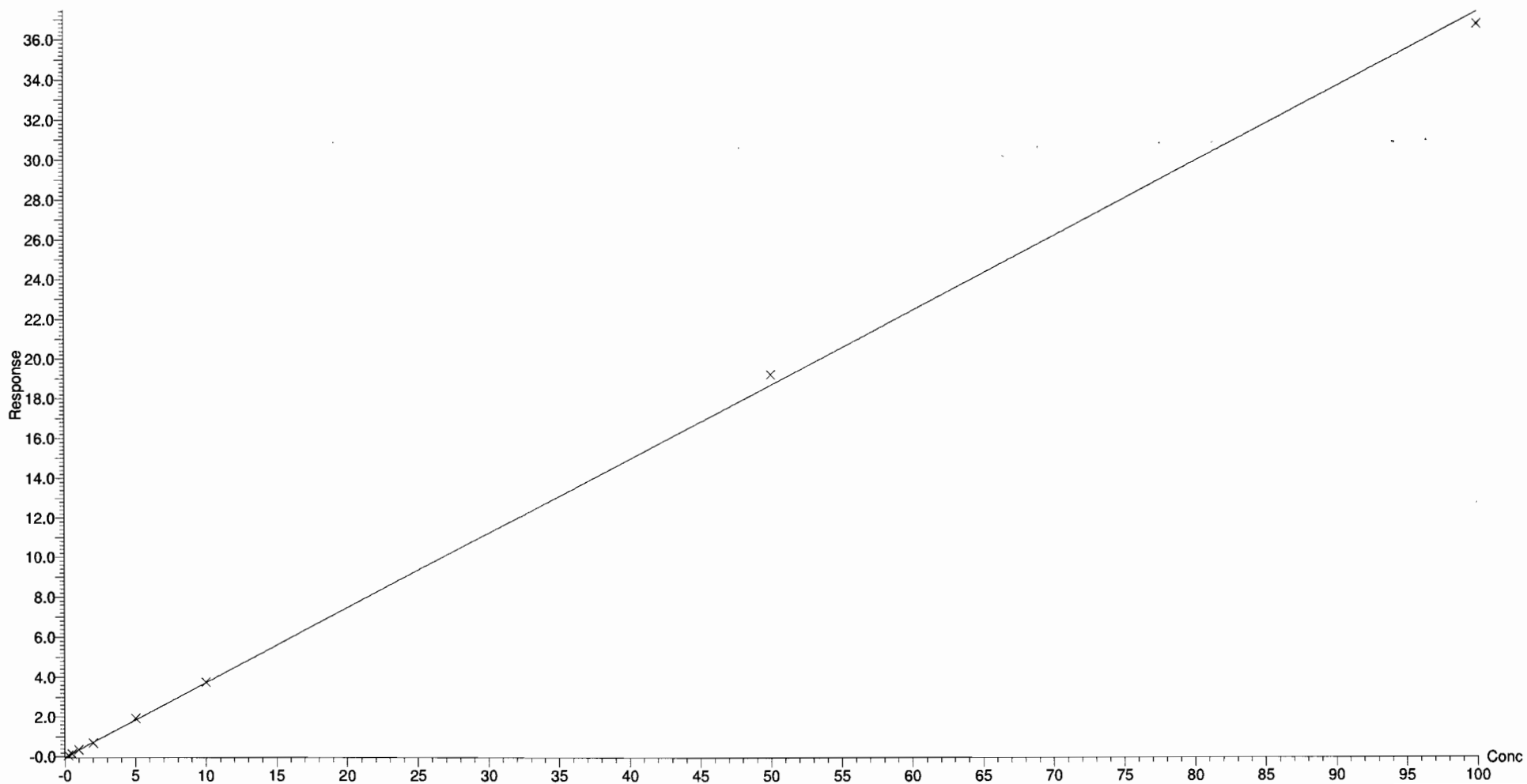
Compound name: PFOS

Correlation coefficient:  $r = 0.999733$ ,  $r^2 = 0.999466$

Calibration curve:  $0.374993 * x + -0.0295857$

Response type: Internal Std ( Ref 12 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: Untitled

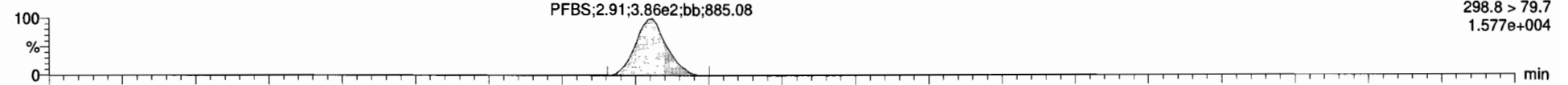
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 08:50:47  
Calibration: 13 Apr 2017 12:09:13

ID: ST170413G1-1 PFC CS-2 17D1301, Description: PFC CS-2 17D1301 A, Name: 170413G1\_2, Date: 13-Apr-2017, Time: 09:39:06, Instrument: , Lab: , User:

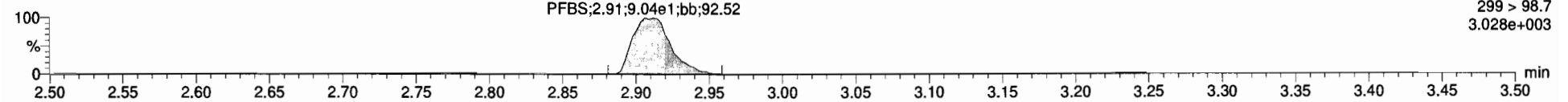
**Total PFBS**

170413G1\_2



F2:MRM of 3 channels,ES-  
298.8 > 79.7  
1.577e+004

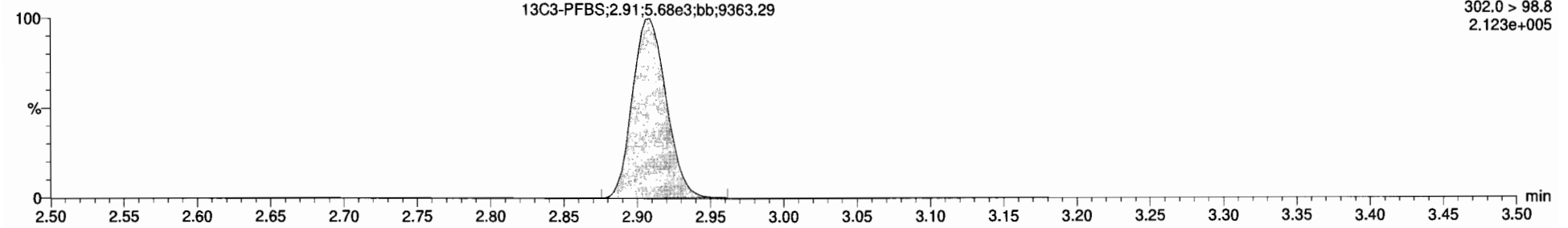
170413G1\_2



F2:MRM of 3 channels,ES-  
299 > 98.7  
3.028e+003

**13C3-PFBS**

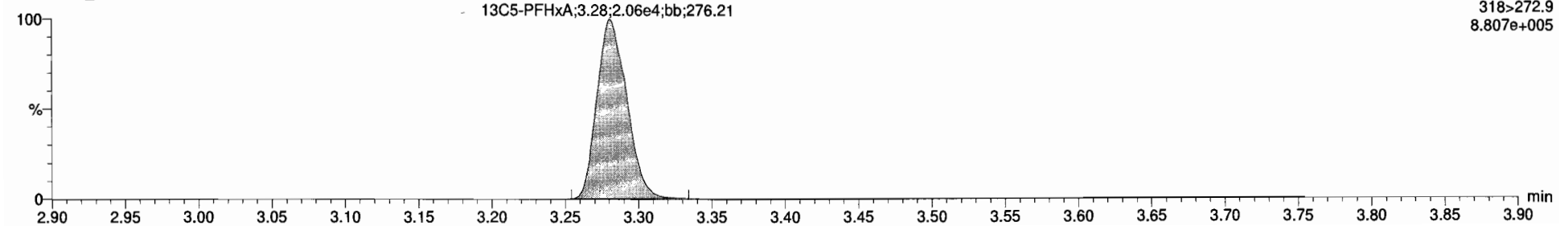
170413G1\_2



F2:MRM of 3 channels,ES-  
302.0 > 98.8  
2.123e+005

**13C5-PFHxA**

170413G1\_2



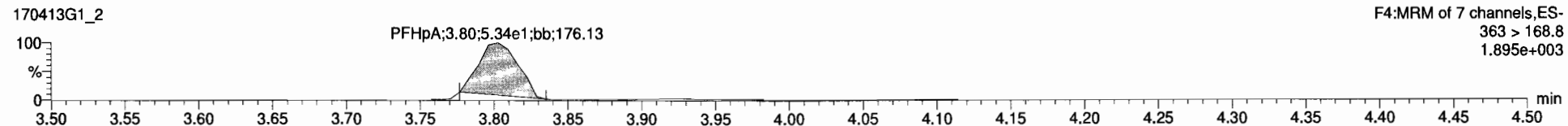
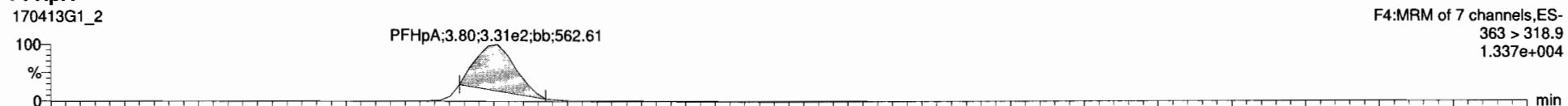
F3:MRM of 1 channel,ES-  
318>272.9  
8.807e+005

Dataset: Untitled

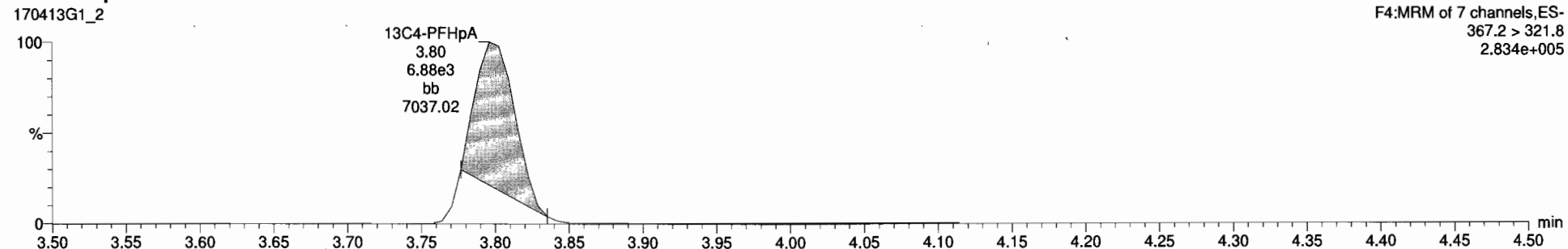
Last Altered: Thursday, April 13, 2017 12:09:13 Pacific Daylight Time  
Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

ID: ST170413G1-1 PFC CS-2 17D1301, Description: PFC CS-2 17D1301 A, Name: 170413G1\_2, Date: 13-Apr-2017, Time: 09:39:06, Instrument: , Lab: , User:

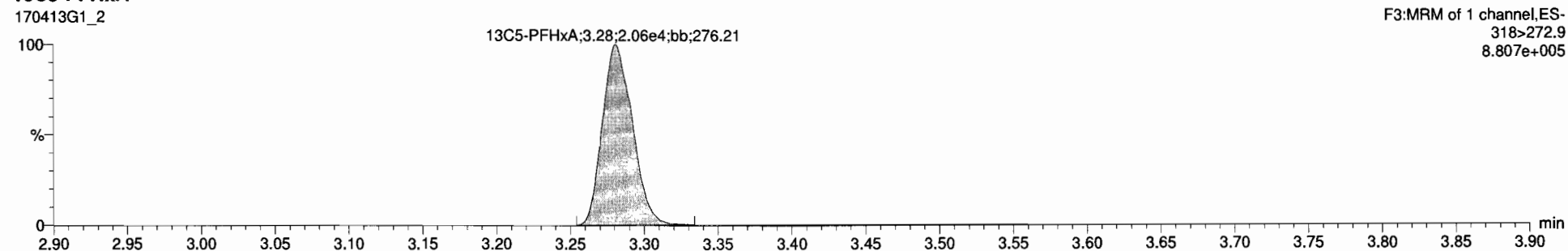
**PFHpA**



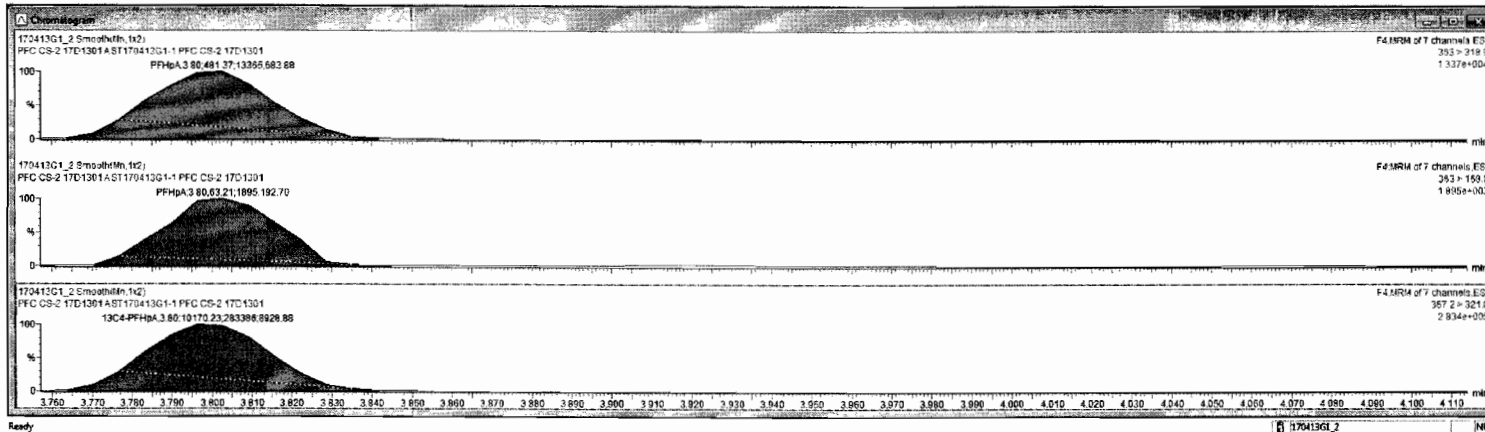
**13C4-PFHpA**



**13C5-PFHxA**

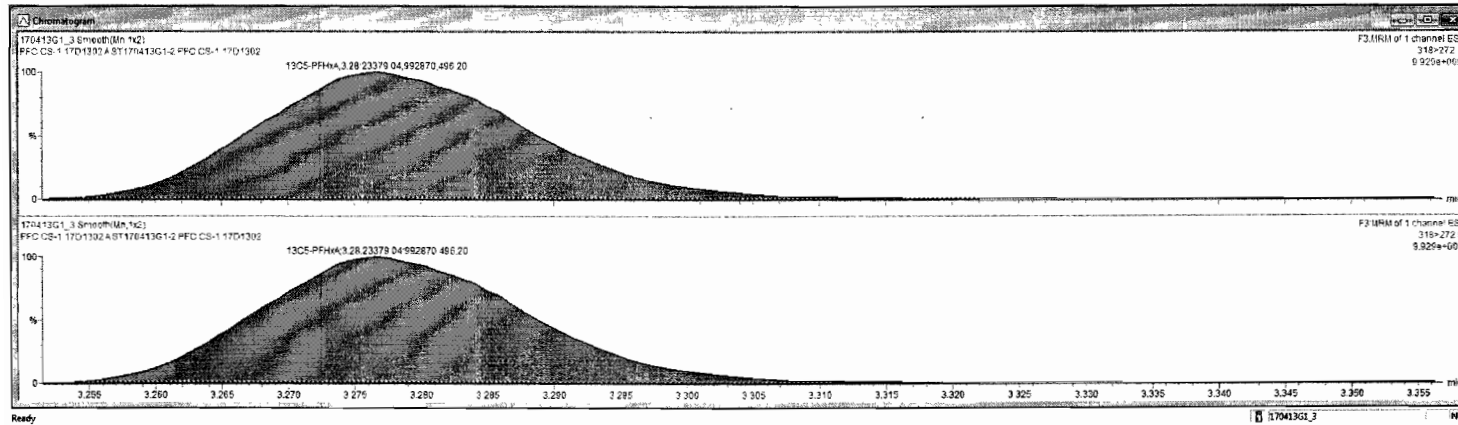


Item	Comp	Q1	Q3	ESPC	Abs. Spgr	RP	HT	#	SA	Y/N	RT	Acq. Date	Acq. Time	#	Chw. Name	ID	Sample Text	Factor1	Sw	Cal File	1-MQL
1	PFBS	0.3015800	0.009902	120.0	3.855e2		2.91	1	7	0.234	YES	13-Apr-17	09:39:06	32	609	ST1704130	PF-C5-2-17D131	1.0	1.00		NO
2	PFHxA	0.230718200		302.0	4.816e2		0.88	2	8			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
3	PFHxS	0.24096042		96.3	2.832e2		3.92	3	8			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
4	PFOA	0.26593891		106.4	5.557e2		4.21	4	10			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
5	PFNA	0.27267418		109.1	3.578e2		4.56	5	11			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
6	PFOS	0.23999109	0.0893	103.0	2.355e1		4.61	6	12			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
7	13C2-PFBS	12.5478171	0.60442	101.2	5.678e3	0.453	2.91	7	14			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
8	13C4-PFHxA	11.9648113	0.63327	95.7	1.6177e4	0.557	3.83	8	14			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
9	18O2-PFHxS	12.006416	0.60371	96.1	5.235e3	0.440	3.92	9	14			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
10	13C2-PFOA	12.233451	0.0115	97.9	2.045e4	3.386	4.21	10	15			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
11	13C5-PFNA	10.581445	0.62223	84.7	4.591e3	0.909	4.56	11	16			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
12	13C6-PFOS	12.572695	0.09771	100.0	4.252e3	1.204	4.62	12	17			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
13	13C5-PFHxA	12.500000	0.115	100.0	2.685e4	1.060	3.26	13	13			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
14	13C2-PFHxS	12.500000	0.0293	100.0	1.240e4	1.050	3.92	14	14			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
15	13C4-PFOA	12.500000	0.89416	100.0	6.208e3	1.000	4.21	15	15			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
16	13C5-PFNA	12.500000	0.0112	100.0	5.853e3	1.000	4.56	16	16			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.0109	100.0	3.240e3	1.000	4.62	17	17			13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
18	Total PFBS	0.3015800										13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
19	Total PFHxS	0.24096042										13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
20	Total PFOA	0.26593891										13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO
21	Total PFOS	0.23999109	0.0893									13-Apr-17	09:39:06			ST1704130	PF-C5-2-17D131	1.0	1.00		NO





170413G1_3_S1170413G1-2.PFC CS-1 17D1302-PFC CS-1 17D1302A														
Line	Name	Conc	DL	100%	EMPC	Ala Resp	RF	DF	DF	DF	DF	DF	DF	DF
1	PFBS	0.43915568	0.00542	87.8	6.776e2	2.81	1	7	0.282	YES	1.001	13-Apr-17	08:51:40	6.729
2	PPHpA	0.48594489	97.0		9.870e2	3.00	2	0			1.000	13-Apr-17	08:51:40	6.729
3	PFHxS	0.48295782	0.8205	96.6	6.527e2	3.82	3	9			1.000	13-Apr-17	08:51:40	6.729
4	PFOA	0.47270890	95.7		1.153e3	4.21	4	10			1.000	13-Apr-17	08:51:40	6.729
5	PFNA	0.59732175	103.2		1.125e2	4.55	5	11			1.000	13-Apr-17	08:51:40	6.729
6	PFOs	0.48012684	0.126	92.0	9.103e1	4.23	6	12			1.001	13-Apr-17	08:51:40	6.729
7	13C5-PFBS	12.9221301	0.8401	103.4	8.830e3	0.453	2.80	7	14		0.988	13-Apr-17	08:51:40	6.729
8	13C4-PPHpA	11.918343	0.00547	95.3	1.183e4	0.857	3.80	8	14		0.968	13-Apr-17	08:51:40	6.729
9	13C5-PFHxS	12.638480	0.00128	101.1	6.488e3	0.448	3.92	9	14		1.000	13-Apr-17	08:51:40	6.729
10	13C2-PFOA	12.390029	0.00706	99.1	2.640e4	3.265	4.21	10	15		1.000	13-Apr-17	08:51:40	6.729
11	13C5-PFNA	13.177990	0.8204	105.4	6.376e3	0.938	4.55	11	16		0.989	13-Apr-17	08:51:40	6.729
12	13C6-PFOs	12.886789	0.00378	103.1	7.802e3	1.354	4.81	12	17		0.996	13-Apr-17	08:51:40	6.729
13	13C5-PPHpA	12.880086	0.0630	109.0	2.338e4	1.008	3.28	13	13		0.900	13-Apr-17	08:51:40	6.729
14	13C3-PFHxS	12.500000	0.0105	100.0	1.460e4	1.000	3.82	14	14		0.900	13-Apr-17	08:51:40	6.729
15	13C6-PFOA	12.500000	0.00191	100.0	7.913e3	1.000	4.21	15	15		0.900	13-Apr-17	08:51:40	6.729
16	13C6-PFNA	12.500000	0.0261	100.0	8.748e3	1.000	4.55	16	16		0.900	13-Apr-17	08:51:40	6.729
17	13C4-PFOs	12.500000	0.00333	100.0	5.918e3	1.000	4.62	17	17		0.900	13-Apr-17	08:51:40	6.729
18	Total PFBS	0.43915568	0.00771				18					13-Apr-17	08:51:40	6.729
19	Total PPHpA	0.51282310	0.8285				19					13-Apr-17	08:51:40	6.729
20	Total PFOA	0.47270890					20					13-Apr-17	08:51:40	6.729
21	Total PFOs	0.81706724	0.126				21					13-Apr-17	08:51:40	6.729



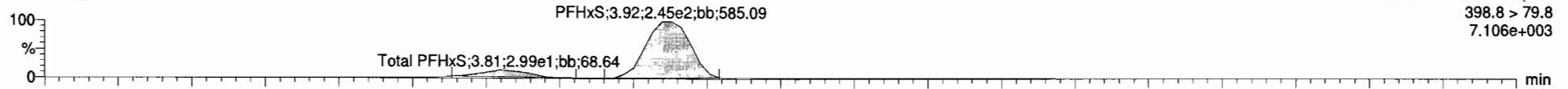
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

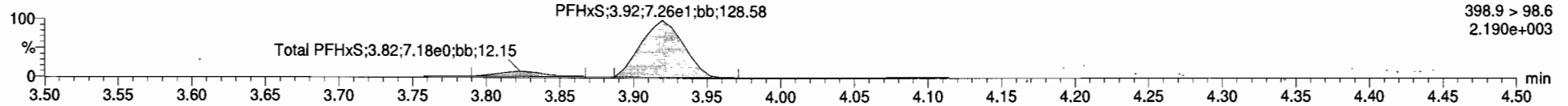
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**Total PFHxS**

170413G1\_2

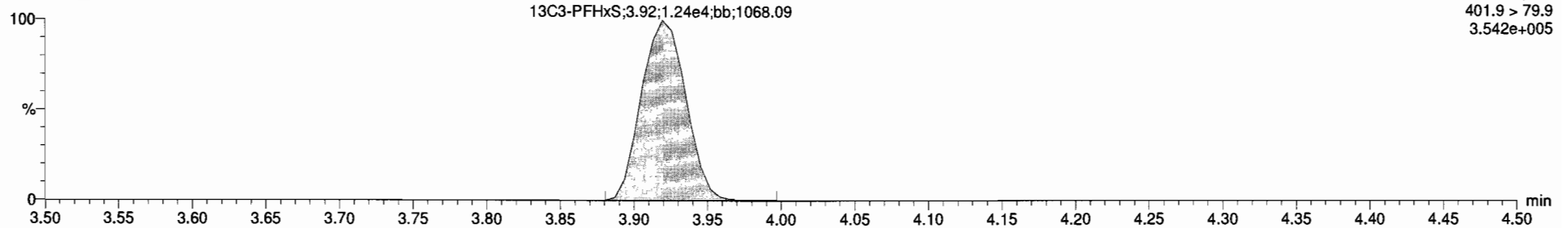


170413G1\_2



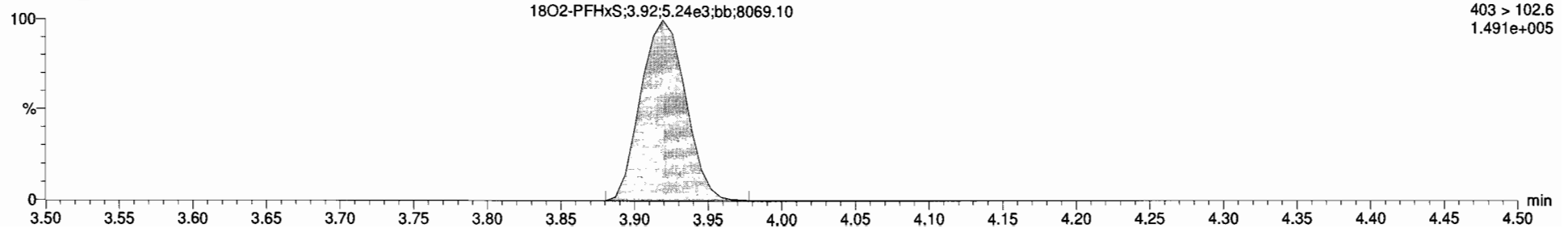
**13C3-PFHxS**

170413G1\_2

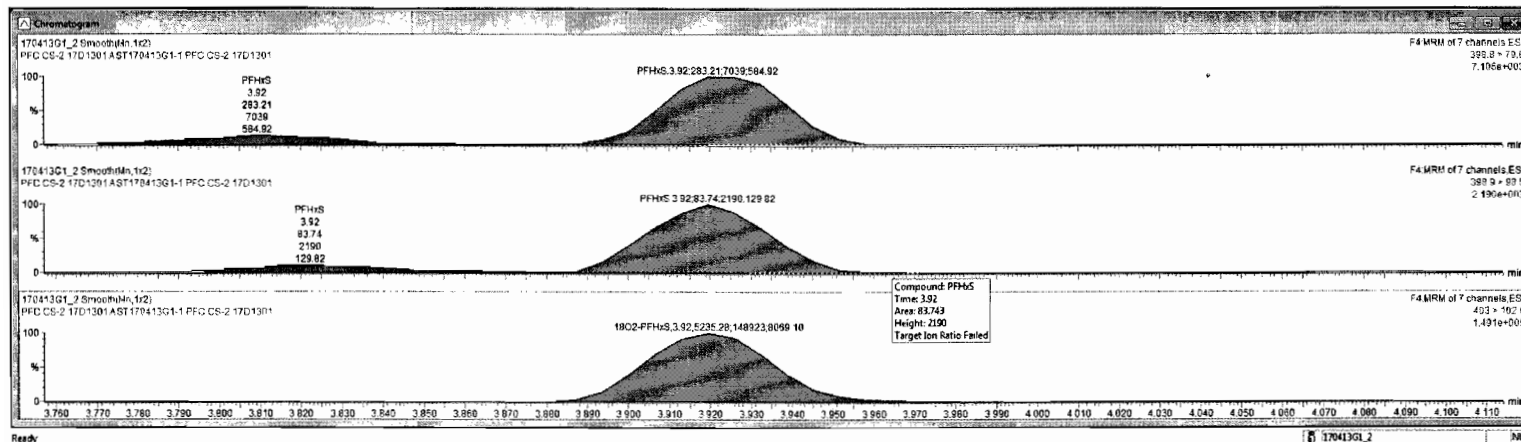


**18O2-PFHxS**

170413G1\_2



#	Name	Conc	DL	%Rec	EMPC	Abn Resp	RRF	RT	#	SA	RA	WN	RR1	Acq Date	Acq Time	IP	Chk/Notes	D	Sample Text	Factor1	SW1	Del File	MSDL
1	PFBS	0.30158980	0.005992	120.6		3.89562	2.91	1	7	0.234	YES	1.001	13-Apr-17	09:39:06	32	609	ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
2	PFHpA	0.25714035		102.9		4.81462	3.89	2	8			1.002	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
3	PFHxS	0.24058842		96.3		2.82842	3.92	3	9			1.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
4	PFOA	0.28593891		106.4		5.55762	4.21	4	10			1.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
5	PFNA	0.27267418		109.1		3.87862	4.56	5	11			1.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
6	PFO5	0.25959109	0.0893	103.8		2.30541	4.61	6	12			0.998	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
7	13Cl-PFBS	12.547517	0.00442	101.2		5.87963	2.91	7	14			0.887	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
8	13Cl-PFHpA	11.964613	0.05327	95.7		1.91764	0.857	8	14			0.906	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
9	18O2-PFHxS	12.066418	0.00371	96.1		5.23563	0.440	9	14			1.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
10	13Cl-PFOA	12.223451	0.0115	97.9		2.94564	3.368	10	15			1.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
11	13Cl-PFNA	10.584445	0.02225	84.7		4.59163	0.909	11	16			1.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
12	13Cl-PFO5	12.575895	0.0877	100.6		4.25263	1.364	12	17			1.001	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
13	13Cl-PFNA	12.500000	0.113	100.0		2.96564	1.000	13	13			0.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
14	13Cl-PFHxS	12.500000	0.0293	100.0		1.24064	1.000	14	14			0.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
15	13Cl-PFOA	12.500000	0.06416	100.0		6.20963	1.000	15	15			0.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
16	13Cl-PFNA	12.500000	0.0112	100.0		5.85363	1.000	16	16			0.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
17	13Cl-PFO5	12.500000	0.0109	100.0		3.24063	1.000	17	17			0.000	13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
18	Total PFBS	0.30158980						16					13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
19	Total PFHpS	0.24058842						19					13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
20	Total PFOA	0.28593891						20					13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	
21	Total PFO5	0.25959109	0.0893					21					13-Apr-17	09:39:06			ST170413G1	PFC CS-2 17D1301	1.0	1.00		NO	

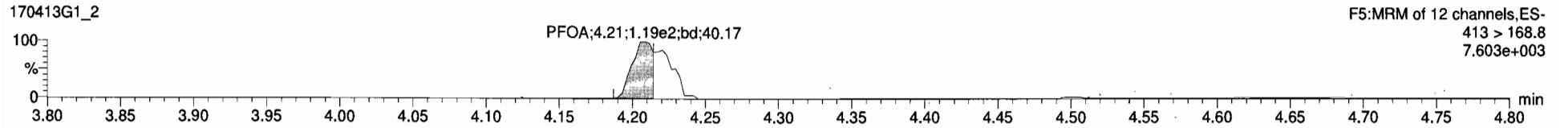
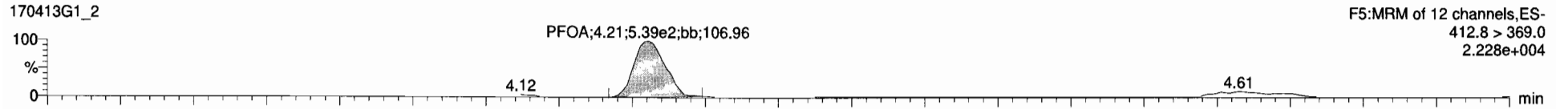


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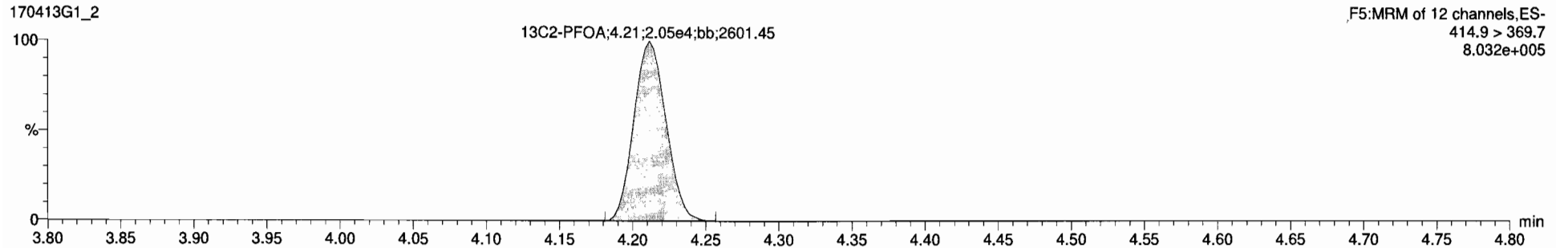
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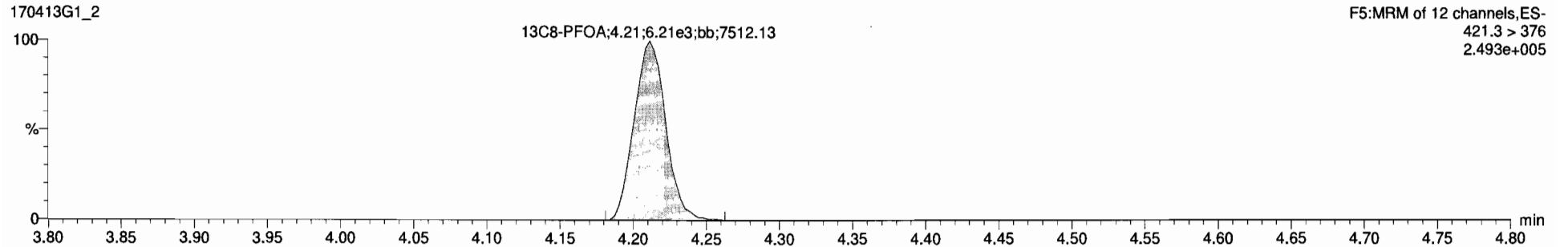
**Total PFOA**



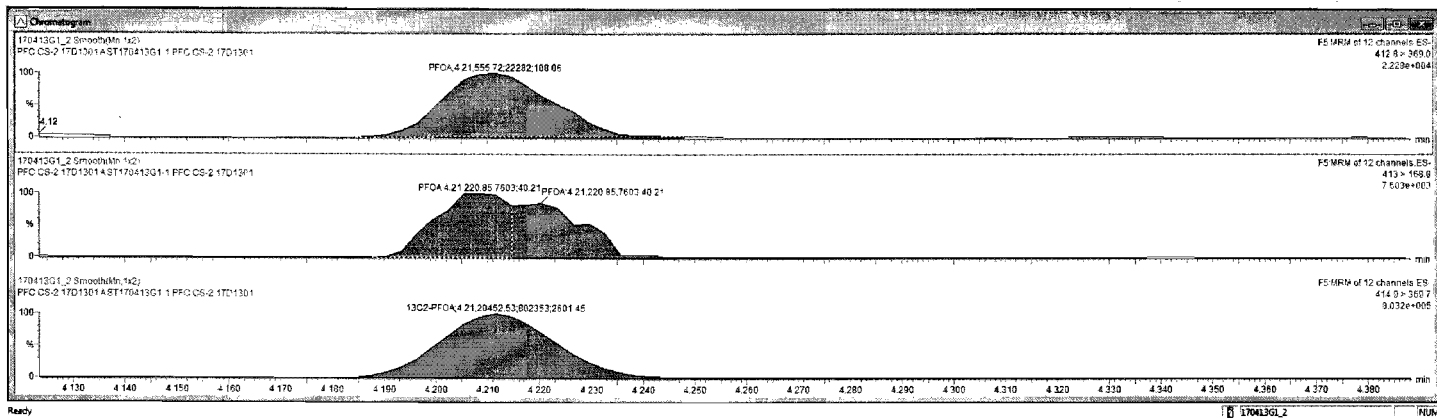
**13C2-PFOA**



**13C8-PFOA**



#	Name	Conc	DL	%Rec	ELPC	Abs Resp	RRF	RT	#	Std	RA	W	RST	Acq Date	Acq Time	# Ch	Notes	D	Sample Text	Factor	SWI	Cal File	WDL
1	PFBS	0.30159360	0.00097	120.5		3.85562		2.91	1	7	0.234	YES	1.001	13-Apr-17	09:39:08	32	666	ST1704130	PFC CS-2 17D13	1.0	1.00		NO
2	PFNA	0.25714025		102.9		4.81462		3.99	2	8			1.002	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
3	PFHxS	0.24886442		96.3		2.63262		3.35	3	9			1.003	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
4	PFDA	0.26593891		108.4		5.95762		4.21	4	10			1.004	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
5	PFNA	0.27267418		109.1		3.57642		4.58	5	11			1.005	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
6	PFOS	0.25959199	0.0393	103.0		2.30541		4.61	6	12			0.998	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
7	13C3-PFBS	12.847817	0.0142	101.2		5.67963	0.453	2.91	7	14			0.997	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
8	13C3-PFNA	11.264813	0.0022	95.7		1.01744	0.057	3.89	8	14			0.993	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
9	13C3-PFHxS	12.008418	0.00371	95.1		5.33563	0.440	3.22	9	14			1.002	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
10	13C3-PFDA	12.233451	0.0113	87.9		2.04544	0.268	4.21	10	15			1.003	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
11	13C3-PFNA	10.581445	0.00225	84.7		4.59162	0.909	4.58	11	16			1.003	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
12	13C3-PFOS	12.578895	0.0971	100.0		4.25242	1.384	4.62	12	17			1.001	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
13	13C3-PFNA	12.540000	0.113	100.0		2.98544	1.000	3.22	13	15			0.999	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
14	13C3-PFHxS	12.500000	0.0292	100.0		1.24044	1.000	3.92	14	14			0.999	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
15	13C3-PFDA	12.500000	0.00416	100.0		5.20963	1.000	4.21	15	15			0.999	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
16	13C3-PFNA	12.500000	0.0162	100.0		5.85343	1.000	4.58	16	16			0.999	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
17	13C3-PFOS	12.500000	0.0109	100.0		3.24043	1.000	4.62	17	17			0.999	13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
18	Total PFBS	0.30159360							18					13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
19	Total PFNA	0.24886442							19					13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
20	Total PFHxS	0.26593891							20					13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO
21	Total PFDA	0.25959199	0.0393						21					13-Apr-17	09:39:08			ST1704130	PFC CS-2 17D13	1.0	1.00		NO

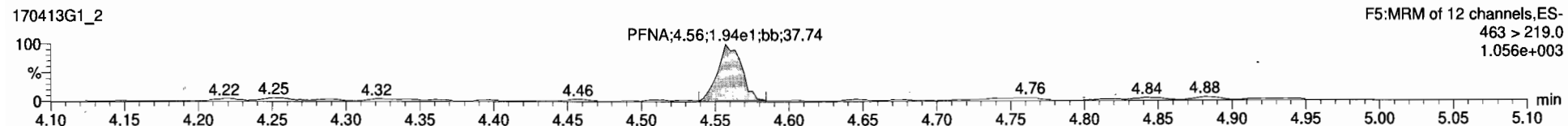
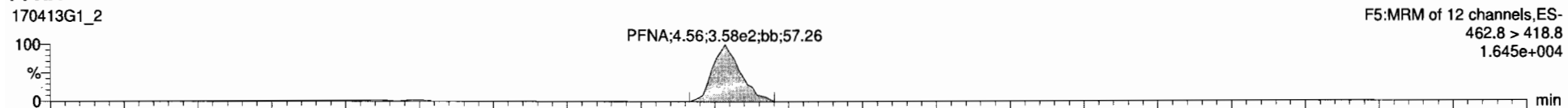


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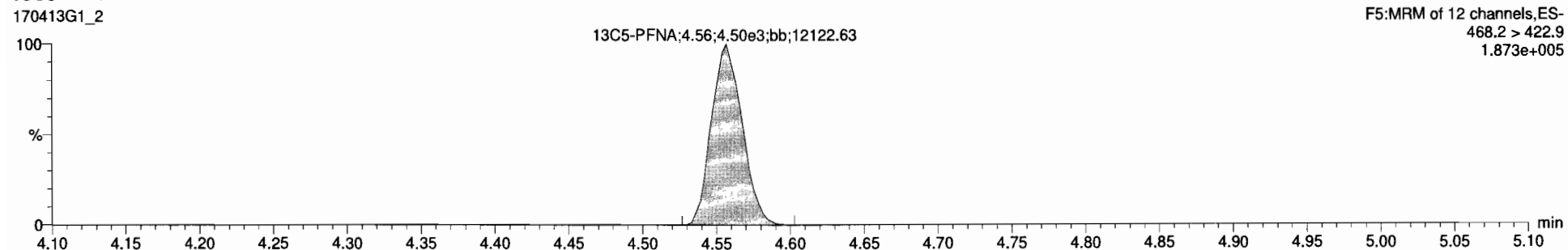
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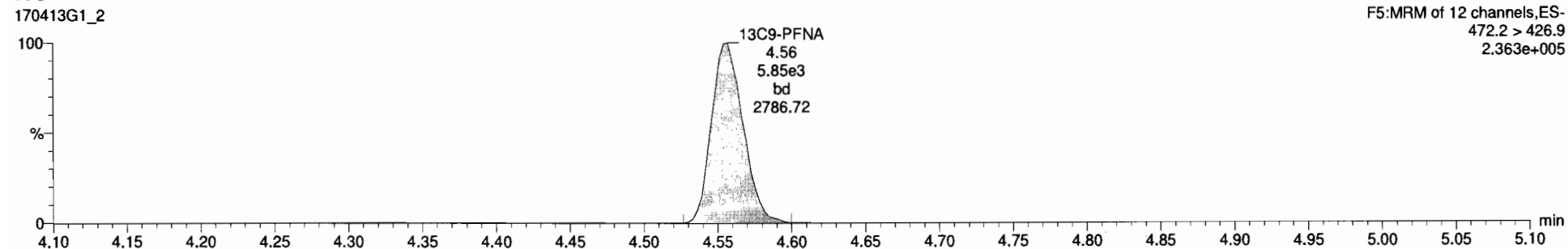
**PFNA**



**13C5-PFNA**



**13C9-PFNA**



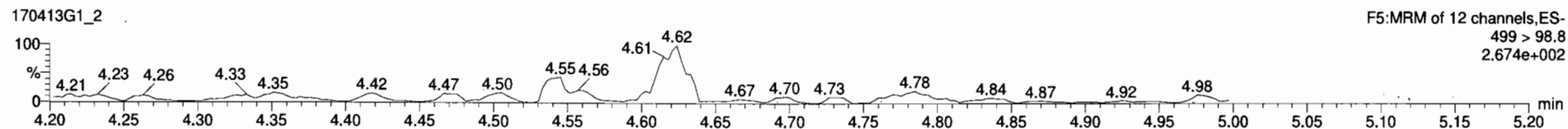
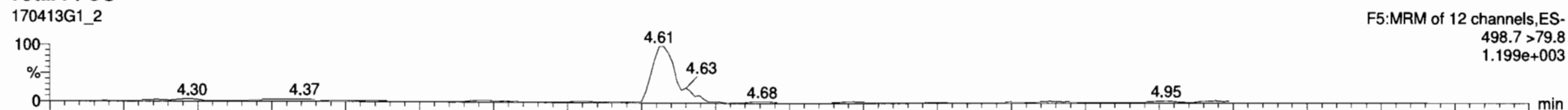
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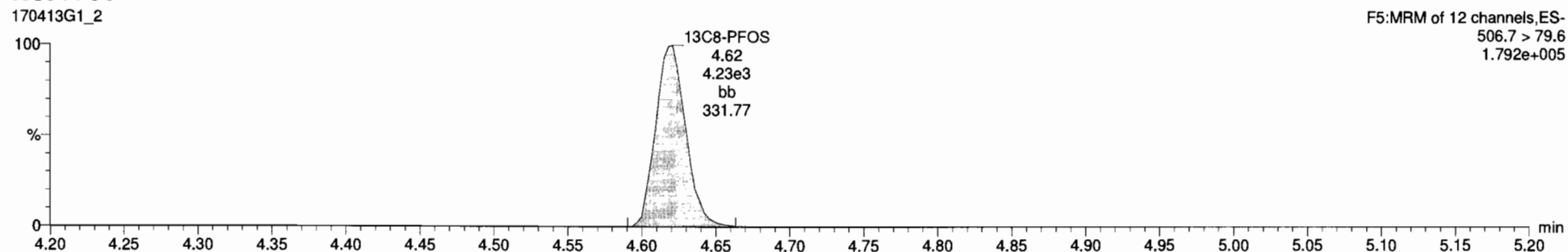
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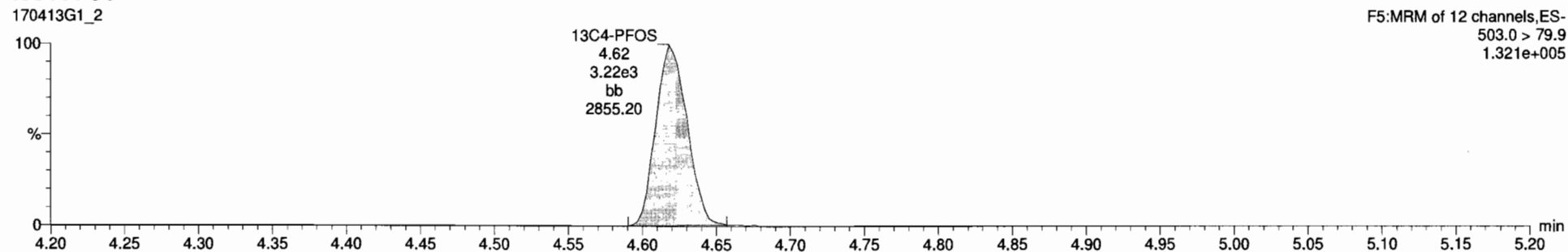
**Total PFOS**



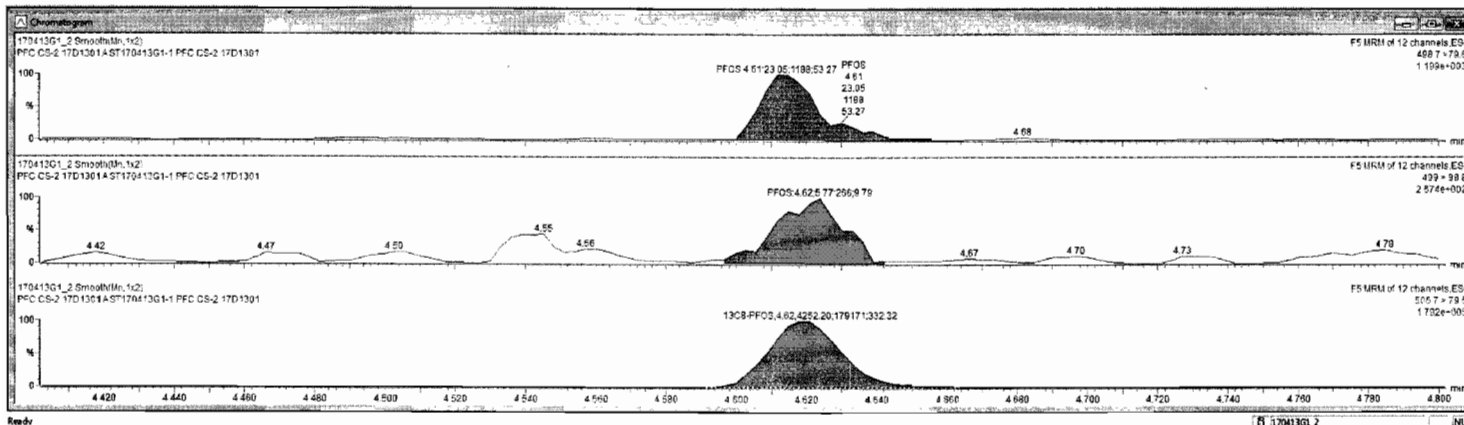
**13C8-PFOS**



**13C4-PFOS**



Sl	Name	Cone	DL	Wt/ct	EMPC	Abt Reap	RRP	RT	RF	RA	VN	RTT	Acc Time	15/CP/Whse	Sample Test	Factor	QV	Cal File	MOL
1	PFBS	0.30150980	0.00902	120.6		3.9542	2.91	7	0.234	YES	1.00	13-Apr-17	09:39:06	32.909	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
2	PFHxA	0.25714535		102.9		4.81462	3.00	2	8		1.00	13-Apr-17	09:39:06		ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
3	PFHxS	0.24086642		96.3		2.83242	3.92	3	5		1.00	13-Apr-17	09:39:06		ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
4	PFDA	0.26593591		106.4		5.55762	4.21	4	10		1.00	13-Apr-17	09:39:06		ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
5	PFNA	0.27207418		109.1		3.57862	4.56	5	11		1.00	13-Apr-17	09:39:06		ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
6	PFOS	0.22691190	0.00913	103.8		2.30541	1.49	8	12		0.998	13-Apr-17	09:39:06		ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
7	13C1-PFBS	12.647817	0.00442	101.2		5.87943	0.453	2.91	7	14		0.887	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
8	13C1-PFHxA	11.964613	0.00327	99.7		1.61764	0.857	3.00	8	14		0.968	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
9	13C1-PFHxS	12.109416	0.00371	96.1		5.22642	0.448	3.92	8	14		1.00	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
10	13C1-PFDA	12.233451	0.0115	97.9		2.84564	0.356	4.21	10	15		1.00	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
11	13C1-PFNA	10.581448	0.03225	84.7		4.50143	0.909	4.56	11	16		1.00	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
12	13C1-PFOS	12.574396	0.0077	109.8		4.25243	1.304	4.62	12	17		1.00	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
13	13C1-PFHxA	12.500090	0.113	100.0		2.96564	1.000	3.28	13	13		0.000	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
14	13C1-PFHxS	12.500090	0.0295	100.0		1.24084	1.000	3.92	14	14		0.000	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
15	13C1-PFDA	12.500090	0.04496	100.0		6.21923	0.000	4.21	15	15		0.000	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
16	13C1-PFNA	12.500090	0.112	100.0		5.85343	0.000	4.56	16	16		0.000	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
17	13C1-PFOS	12.500090	0.0109	100.0		3.24943	1.000	4.62	17	17		0.000	13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
18	Total PFBS	0.30150980							18				13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
19	Total PFHxA	0.24086642							19				13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
20	Total PFHxS	0.26593591							20				13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO
21	Total PFOS	0.22691190	0.00913						21				13-Apr-17	09:39:06	ST170413G1	PFC CS-2 17D1301	1.0	1.00	NO



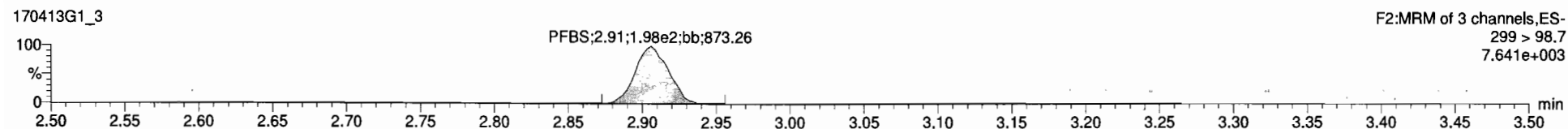
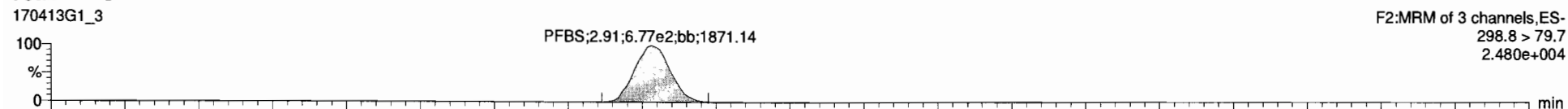


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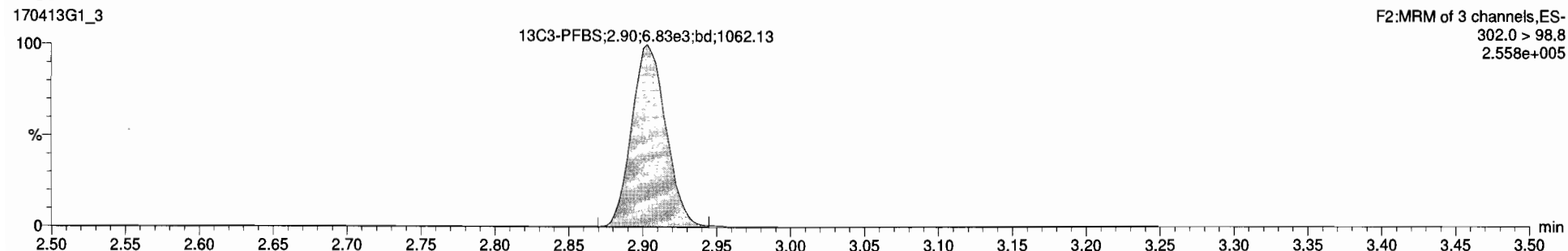
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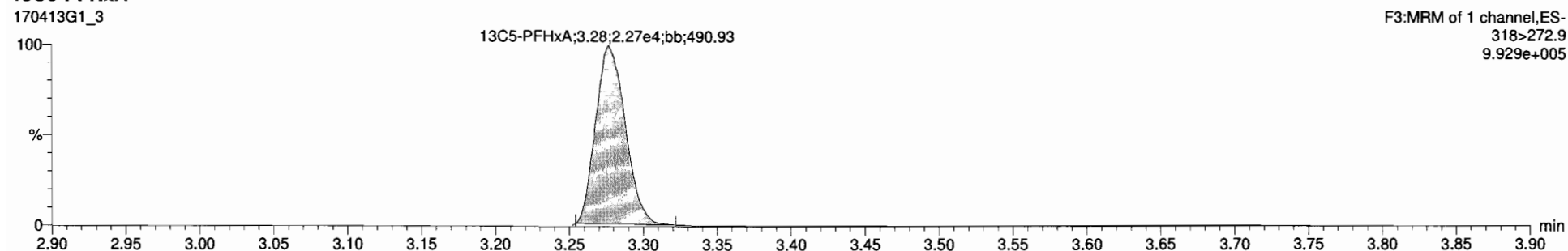
**Total PFBS**



**13C3-PFBS**



**13C5-PFHxA**



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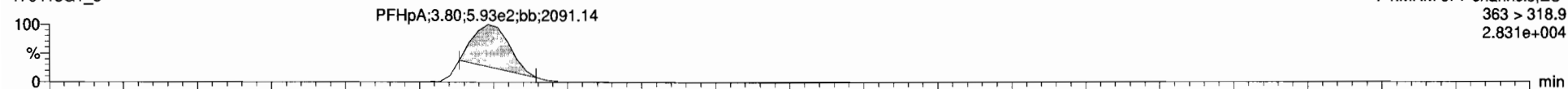
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**PFHpA**

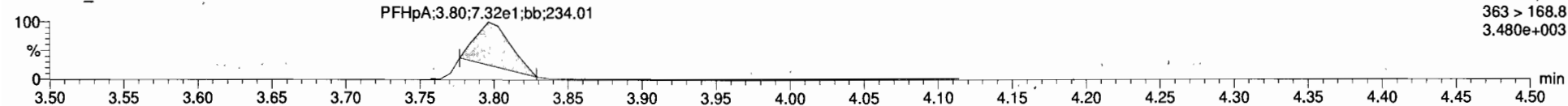
170413G1\_3

F4:MRM of 7 channels,ES-  
363 > 318.9  
2.831e+004



170413G1\_3

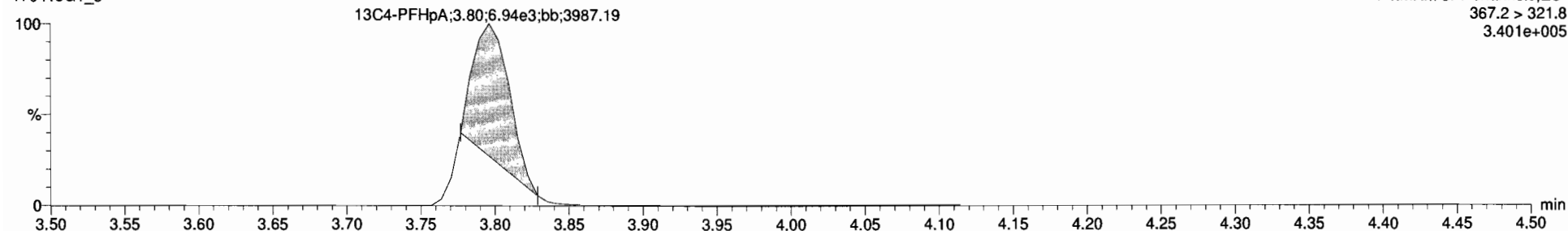
F4:MRM of 7 channels,ES-  
363 > 168.8  
3.480e+003



**13C4-PFHpA**

170413G1\_3

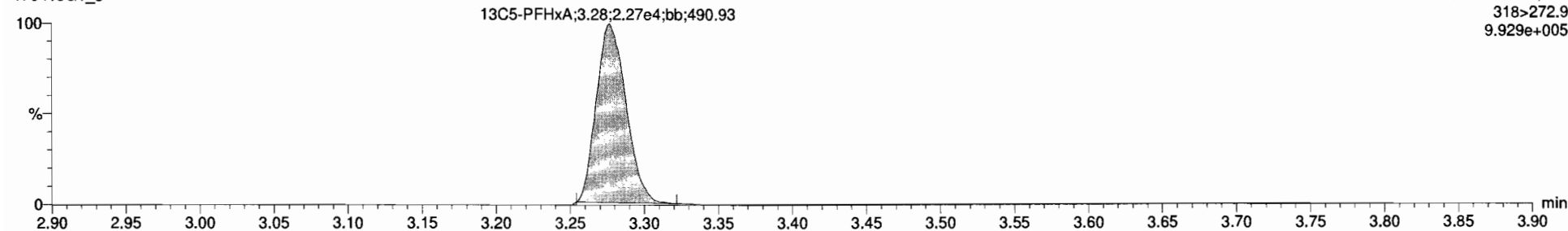
F4:MRM of 7 channels,ES-  
367.2 > 321.8  
3.401e+005



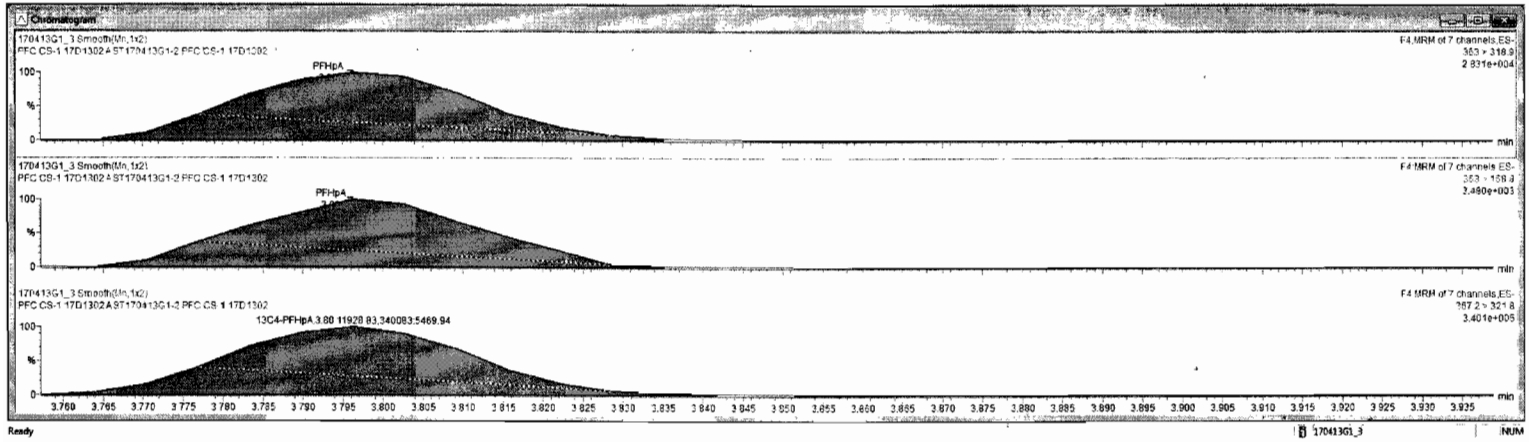
**13C5-PFHxA**

170413G1\_3

F3:MRM of 1 channel,ES-  
318>272.9  
9.929e+005



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RPF	RT	W	RA	YN	RR1	Acq Date	Acq Time	IP Ch Noise	C	Sample Size	Factor1	Sum	Calc M	>MCL
1 PFBS	0.43915505	0.203542	87.8		6.789e2	2.91	1	7	0.282	YES	1.031	13-Apr-17	09:51:40	3.729	ST1704130	PFC CS-1 17D13	1.0	1.00		NO
2 PFHpA	0.46504469		97.0		9.830e2	3.88	2	5			1.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
3 PFHxS	0.46295752	0.0265	96.6		6.529e2	3.94	2	9			1.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
4 PFOA	0.47316899		95.7		1.153e3	4.21	4	16			1.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
5 PFNA	0.50073275		100.2		1.135e3	4.55	5	11			1.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
6 PFOS	0.46312654	0.126	92.0		9.102e1	4.62	6	12			1.091	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
7 13C3-PFBS	12.926130	0.0401	103.4		6.830e3	0.453	2.96	7	14		0.898	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
8 13C4-PFHpA	11.918343	0.00547	95.3		1.163e4	0.857	3.60	8	14		0.989	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
9 18O2-PFHxS	12.636469	0.05128	101.1		6.468e3	0.446	3.80	9	14		1.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
10 13C2-PFOA	12.386029	0.00706	99.1		2.648e4	3.358	4.21	10	15		1.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
11 13C5-PFNA	13.178909	0.0284	103.4		8.378e3	0.969	4.58	11	16		0.999	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
12 13C8-PFOS	12.586709	0.00370	103.1		7.959e3	1.354	4.61	12	17		0.999	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
13 13C5-PFHpA	12.506050	0.2630	100.0		2.335e4	1.000	3.25	13	13		0.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
14 13C5-PFHxS	12.506050	0.0185	105.0		1.466e4	1.000	3.92	14	14		0.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
15 13C8-PFOA	12.506050	0.0181	100.0		7.913e3	1.000	4.21	15	15		0.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
16 13C8-PFNA	12.506050	0.0261	100.0		8.745e3	1.000	4.55	16	16		0.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
17 13C4-PFOS	12.506050	0.00333	100.0		5.918e3	1.000	4.62	17	17		0.090	13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
18 Total PFBS	0.43915505	0.000771						18				13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
19 Total PFHxS	0.51262310	0.0265						19				13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
20 Total PFOA	0.47676899							20				13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO
21 Total PFOS	0.61706724	0.126						21				13-Apr-17	09:51:40		ST1704130	PFC CS-1 17D13	1.0	1.00		NO



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Last Altered: Thursday, April 13, 2017 12:09:13 Pacific Daylight Time

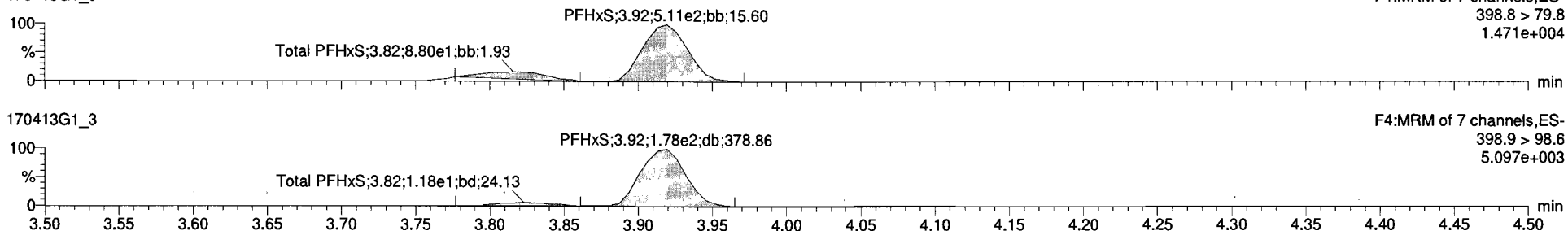
Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

ID: ST170413G1-2 PFC CS-1 17D1302, Description: PFC CS-1 17D1302 A, Name: 170413G1\_3, Date: 13-Apr-2017, Time: 09:51:40, Instrument: , Lab: , User:

**Total PFHxS**

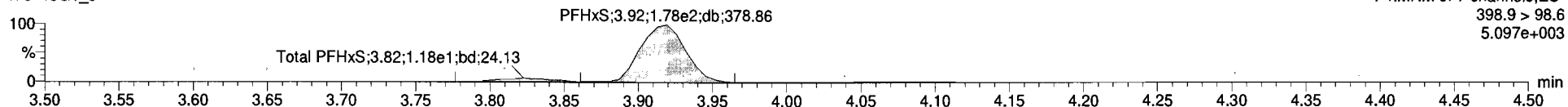
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398.8 > 79.8  
1.471e+004



170413G1\_3

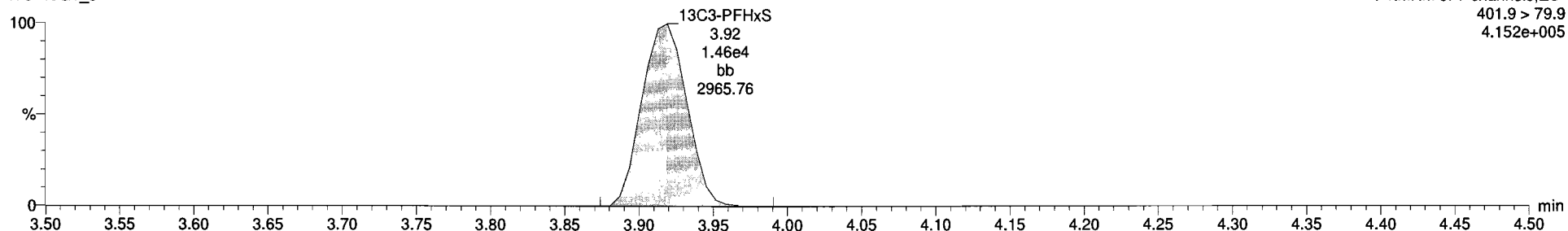
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5.097e+003



**13C3-PFHxS**

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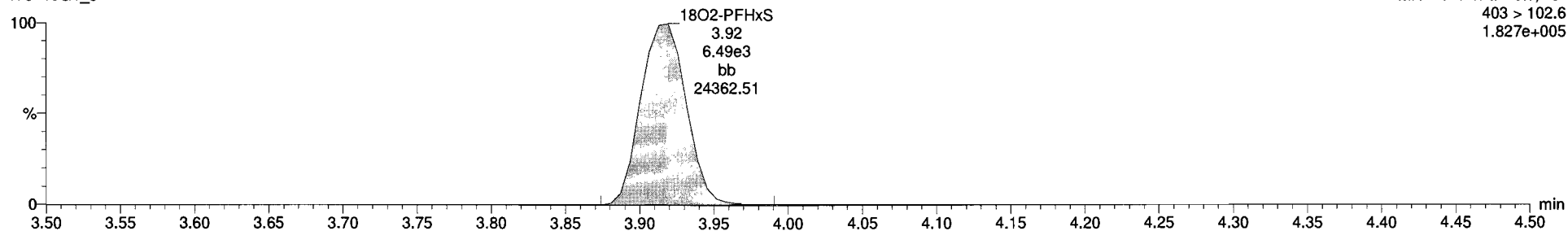
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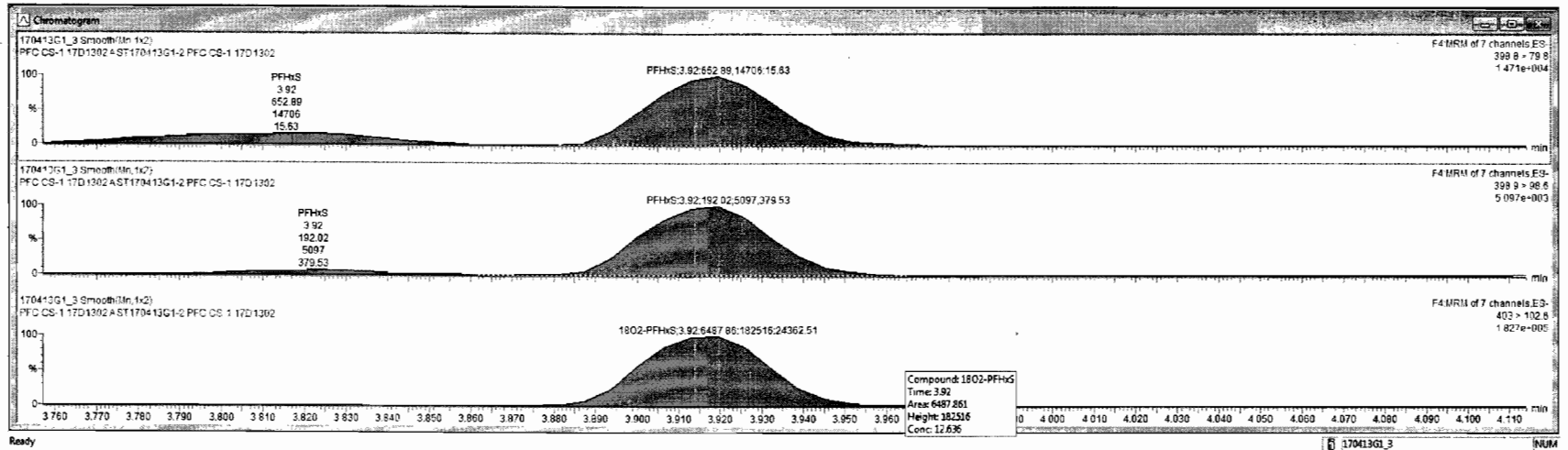
**18O2-PFHxS**

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F4:MRM of 7 channels,ES-  
403 > 102.6  
1.827e+005



170413G1_3 - ST170413G1-2 PFC CS-1 17D1302 - PFC CS-1 17D1302 A																						
#	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	VIN	RRT	Acq Date	Acq Time	1 <sup>st</sup> Chr Name	ID	Sample Text	Factor1	SWI	Cal File	-MOD
1	PFBS	0.43915500	0.000542	87.8		6.769e2	2.91	7			0.292	YES	1.001	13-Apr-17	09:51:40	0.729	ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
2	PFHpA	0.48504460		97.0		9.838e2	3.80	2					1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
3	PFHxS	0.48206760	0.0265	98.8		6.529e2	3.92	3					1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
4	PFQA	0.47870890		95.7		1.153e3	4.21	4					1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
5	PFNA	0.50078275		100.2		1.135e3	4.55	5					1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
6	PFOS	0.46012684	0.126	92.0		9.102e1	4.62	5					1.001	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
7	13C3-PFBS	12.920130	0.0401	103.4		6.830e3	0.453	2.96	7				0.826	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
8	13C4-PFHpA	11.918343	0.09547	95.3		1.190e4	0.857	3.80	8				0.869	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
9	18O2-PFHxS	12.536460	0.00128	101.1		6.488e3	0.440	3.92	9				1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
10	13C2-PFQA	12.386029	0.00706	99.1		2.640e4	3.368	4.21	10				1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
11	13C5-PFNA	13.173900	0.0204	105.4		8.379e3	0.909	4.55	11				0.999	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
12	13C6-PFOS	12.869799	0.00370	103.1		7.959e3	1.364	4.61	12				0.999	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
13	13C5-PFHpA	13.500000	0.0630	100.0		2.338e4	1.000	3.28	13				0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
14	13C3-PFHxS	13.500000	0.0105	100.0		1.469e4	1.000	3.92	14				0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
15	13C4-PFQA	13.500000	0.00191	100.0		7.913e3	1.000	4.21	15				0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
16	13C3-PFNA	13.500000	0.0261	100.0		6.746e3	1.000	4.55	16				0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
17	13C4-PFOS	13.500000	0.00333	100.0		5.918e3	1.000	4.62	17				0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
18	Total PFBS	0.43915500	0.000771					16						13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
19	Total PFHxS	0.51262310	0.0265					19						13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
20	Total PFQA	0.47870890						20						13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO
21	Total PFOS	0.61706724	0.126					21						13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13...	1.0	1.00		NO



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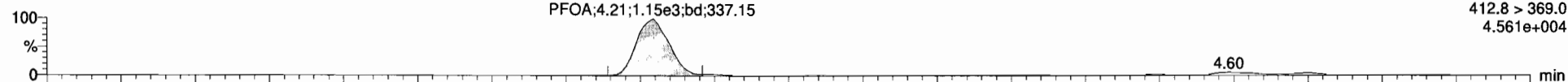
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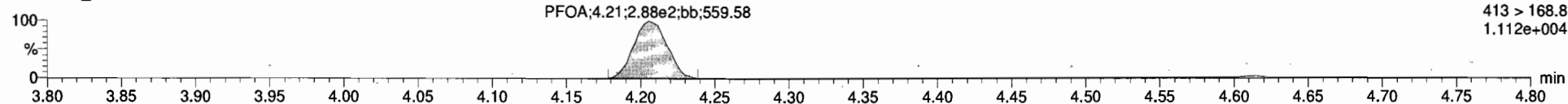
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**Total PFOA**

170413G1\_3

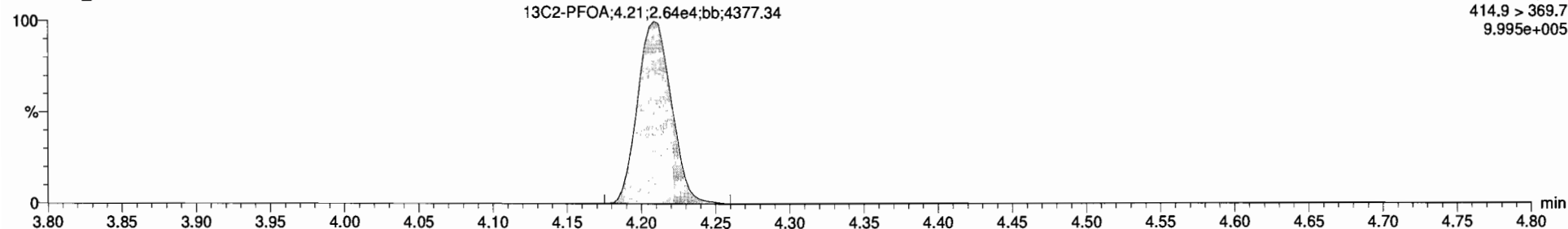


170413G1\_3



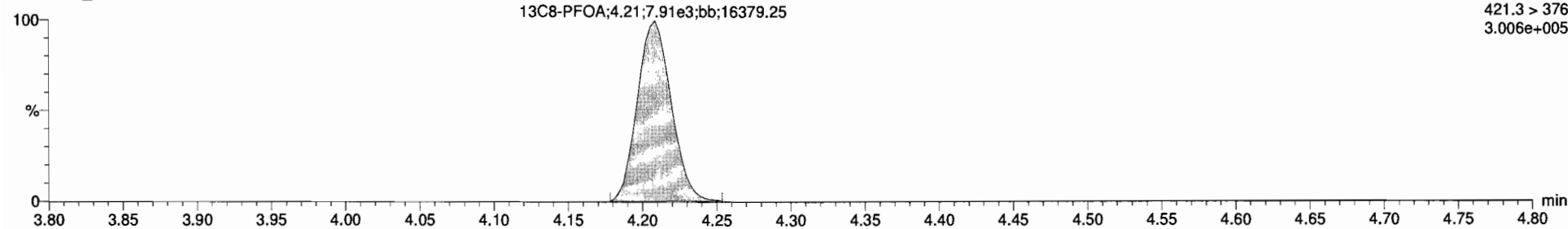
**13C2-PFOA**

170413G1\_3



**13C8-PFOA**

170413G1\_3

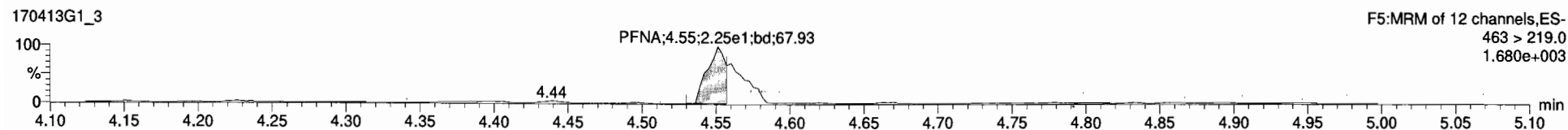
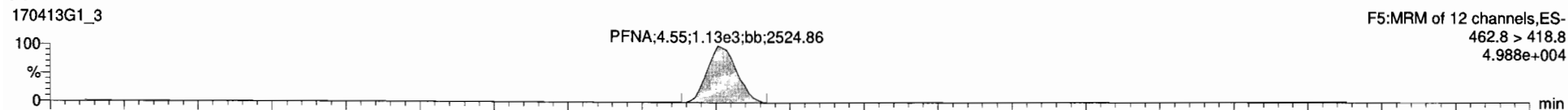


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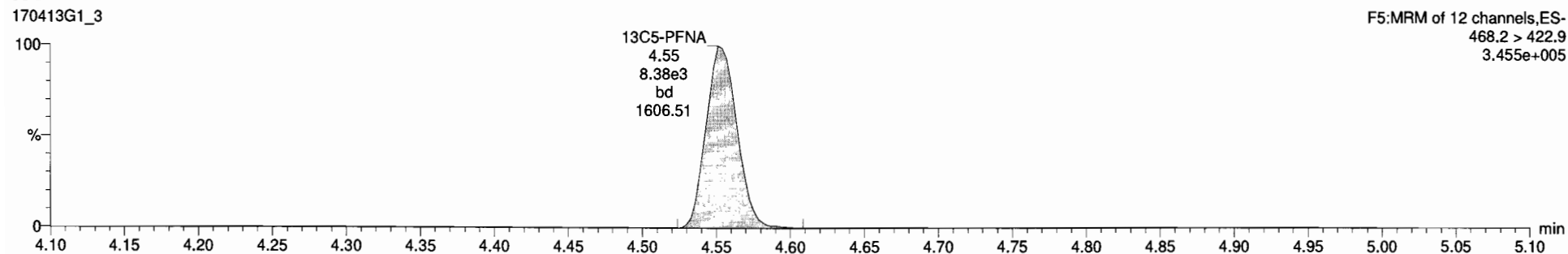
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ID: ST170413G1-2 PFC CS-1 17D1302, Description: PFC CS-1 17D1302 A, Name: 170413G1\_3, Date: 13-Apr-2017, Time: 09:51:40, Instrument: , Lab: , User:

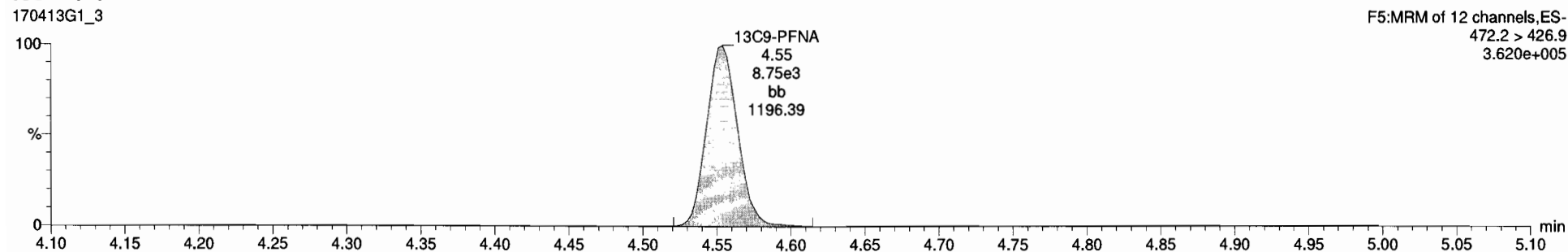
**PFNA**



**13C5-PFNA**

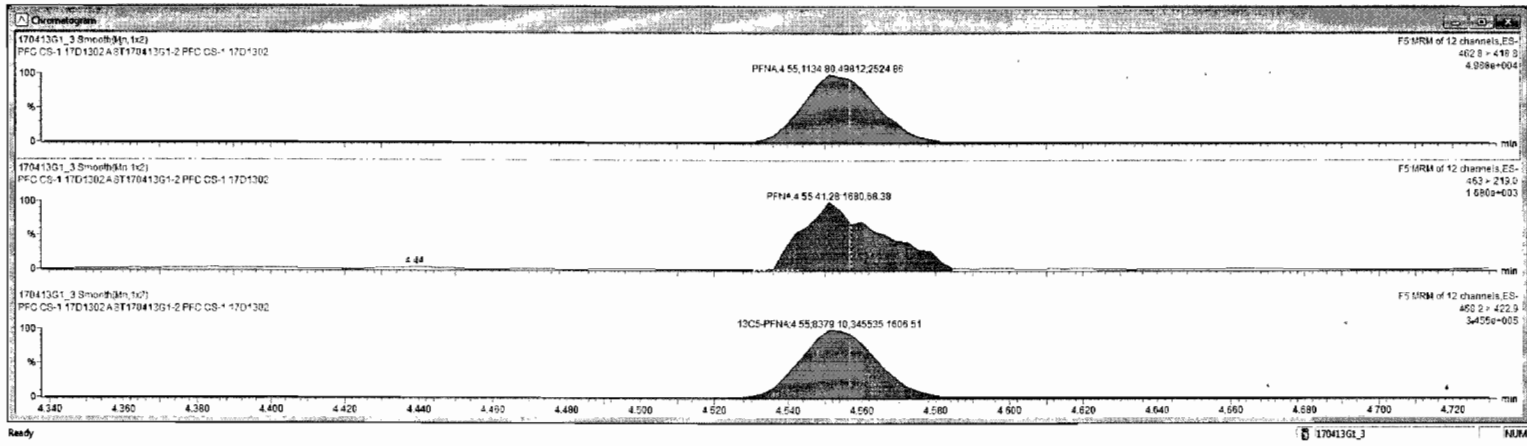


**13C9-PFNA**



170413G1\_3 - ST170413G1-2 PFC CS-1 17D1302 - PFC CS-1 17D1302 A

#	Name	Conc	DL	%Rec	EMPC	Abi Resd	RSE	RT	#	Std	RA	Y/N	RRT	Acq Date	Acq Time	# Chr	Index	ID	Sample Text	Factor1	SW	Cal File	sMDL
1	PFBS	0.43915506	0.000542	87.8		6.76992		2.91	1	7	0.292	YES	1.001	13-Apr-17	09:51:40	8.729	ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
2	PFNA	3.48534489		87.0		9.83647		3.80	2	8			1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
3	PFHxS	0.48295762	0.0295	96.6		6.52942		3.52	3	9			1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
4	PFOA	0.47870990		95.7		1.15329		4.21	4	10			1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
5	PFNA	0.50702175		100.2		1.13540		4.56	5	11			1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
6	PFOA	0.46012694	0.125	92.0		9.10241		4.62	6	12			1.011	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
7	13CS-PFBS	12.820138	0.0461	102.4		6.87043	0.453	2.90	7	14			0.886	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
8	13CS-PFNA	11.918243	0.0547	95.3		1.19344	0.357	3.80	8	14			0.969	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
9	1802-PFHS	12.836468	0.00126	101.1		6.47843	0.446	3.90	9	14			1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
10	13CS-PFOA	12.390325	0.00105	99.1		2.64944	3.365	4.21	10	15			1.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
11	13CS-PFNA	13.178900	0.0284	105.4		0.37943	0.809	4.61	11	16			0.999	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
12	13CS-PFOS	12.886709	0.00378	103.1		7.95943	1.304	4.61	12	17			0.999	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
13	13CS-PFNA	12.500900	0.0030	100.0		2.33644	1.000	3.28	13	13			0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
14	13CS-PFHS	12.500900	0.0165	100.0		1.48044	1.000	3.92	14	14			0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
15	13CS-PFOA	12.500900	0.00191	100.0		7.91343	1.000	4.21	15	15			0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
16	13CS-PFNA	12.500900	0.0261	100.0		8.74843	1.000	4.55	16	15			0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
17	13CS-PFOS	12.500900	0.00333	100.0		5.91843	1.000	4.62	17	17			0.000	13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
18	Total PFBS	0.43915506	0.000711						18					13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
19	Total PFNA	0.51202116	0.0295						19					13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
20	Total PFOA	0.47870990							20					13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	
21	Total PFOA	0.61736724	0.125						21					13-Apr-17	09:51:40		ST170413G	PFC CS-1 17D13	1.0	1.00		NO	





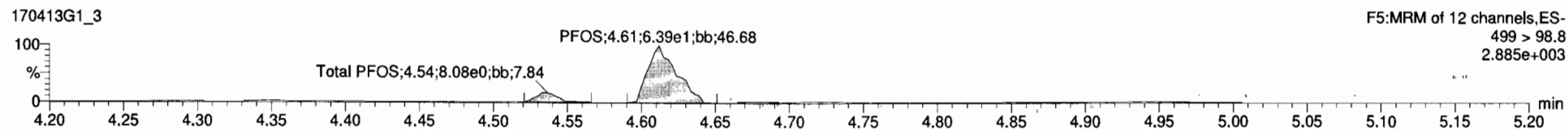
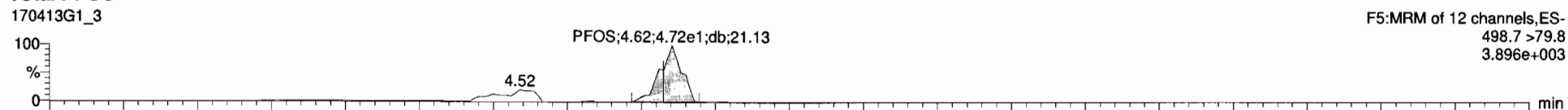
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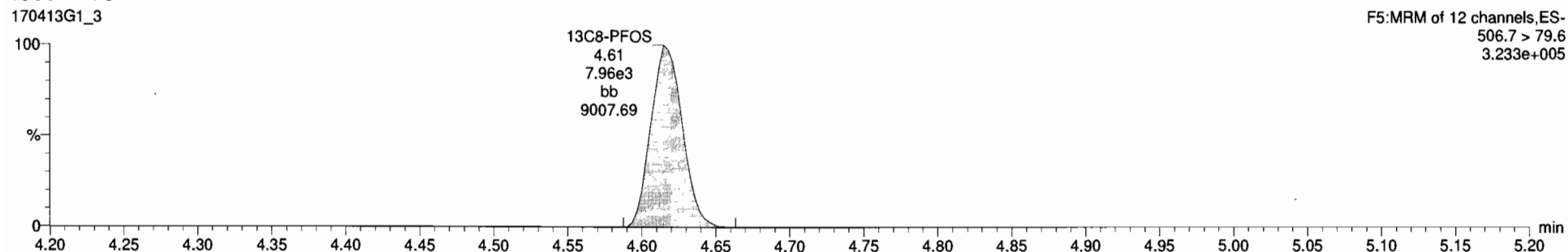
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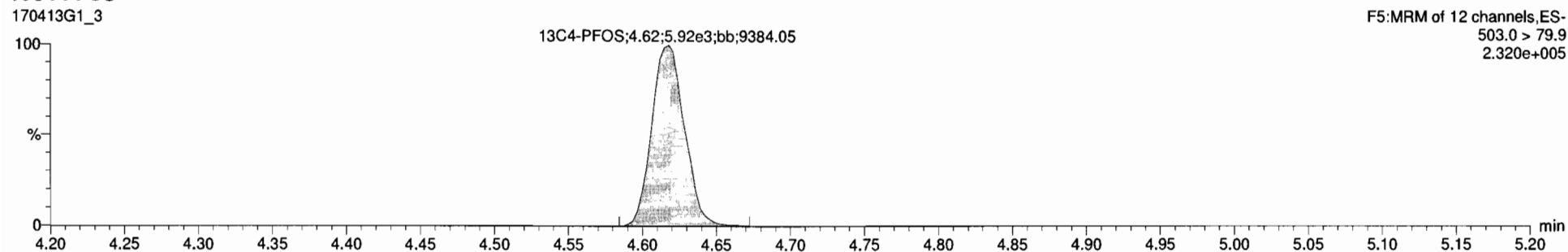
**Total PFOS**



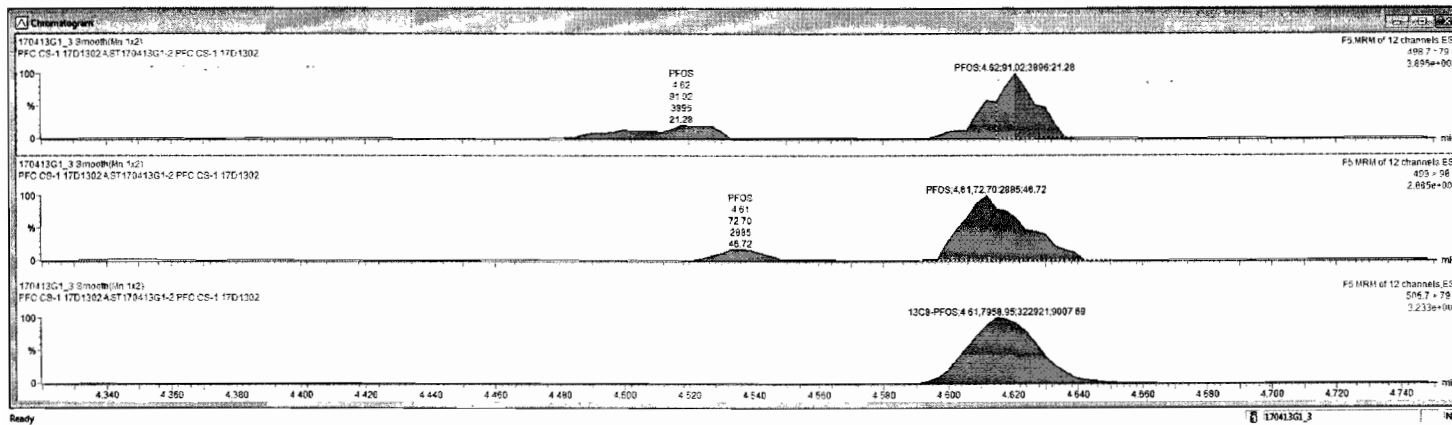
**13C8-PFOS**



**13C4-PFOS**



#	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RPF	RT	#	Ref	RA	Y/N	RPT	Acq Date	Acq Time	1° Chr Name	ID	Sample Type	Factor1	SVE	Cal File	MDL
1	PFBS	0.43915509	0.00542	87.6		6.76962	2.51	1	7	0.292		YES	1.00	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
2	PFHxA	0.48504468		97.0		9.03562	3.80	2	8				1.00	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
3	PFHxS	0.48295752	0.0285	99.0		6.52962	3.92	3	9				1.00	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
4	PFOA	0.47870699		85.7		1.19263	4.21	4	10				1.00	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
5	PFNA	0.55072275		100.0		1.13243	4.55	5	11				1.00	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
6	PFOS	0.46012684	0.126	82.0		9.19241	4.62	6	12				1.00	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
7	13C1-PFBS	12.929130	0.0401	163.4		6.83543	0.453	2.90	7	14			0.856	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
8	13C1-PFHxA	11.818343	0.80547	93.3		1.18364	0.857	3.80	8	14			0.969	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
9	13C1-PFHxS	12.636468	0.90126	101.1		6.48643	0.440	3.92	9	14			1.000	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
10	13C1-PFOA	12.300029	0.90796	99.1		2.84064	0.366	4.21	10	15			1.000	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
11	13C1-PFNA	13.178909	0.0284	105.4		8.37963	0.909	4.55	11	18			0.999	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
12	13C1-PFOS	12.886709	0.90370	103.1		7.81963	1.354	4.61	12	17			0.999	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
13	13C1-PFHxA	12.500000	0.0630	100.0		2.33864	1.006	3.26	13	13			0.000	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
14	13C1-PFHxS	12.500000	0.0195	100.0		1.46064	1.000	3.92	14	14			0.000	12-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
15	13C1-PFOA	12.500000	0.90191	100.0		7.91763	0.000	4.21	15	15			0.000	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
16	13C1-PFNA	12.500000	0.0261	100.0		6.74663	0.000	4.55	16	16			0.000	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
17	13C1-PFOS	12.500000	0.80333	100.0		5.91663	1.000	4.62	17	17			0.000	13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
18	Total PFBS	0.43915509	0.00771					18						13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
19	Total PFHxS	0.51292310	0.0285					19						13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
20	Total PFOA	0.47870699						20						13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO
21	Total PFOS	0.61706724	0.126					21						13-Apr-17	09:51:40	ST17041301	PFC CS-1 17D13	1.0	1.00			NO



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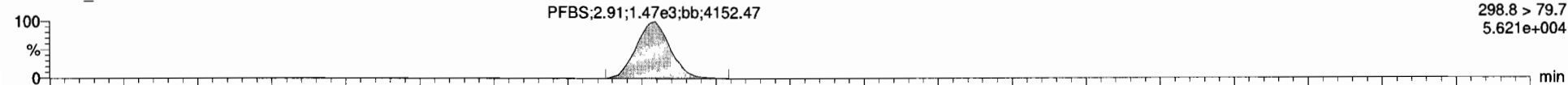
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

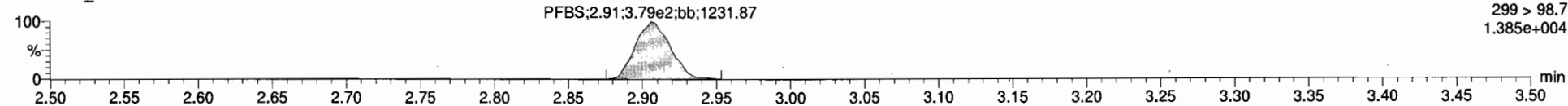
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**Total PFBS**

170413G1\_4

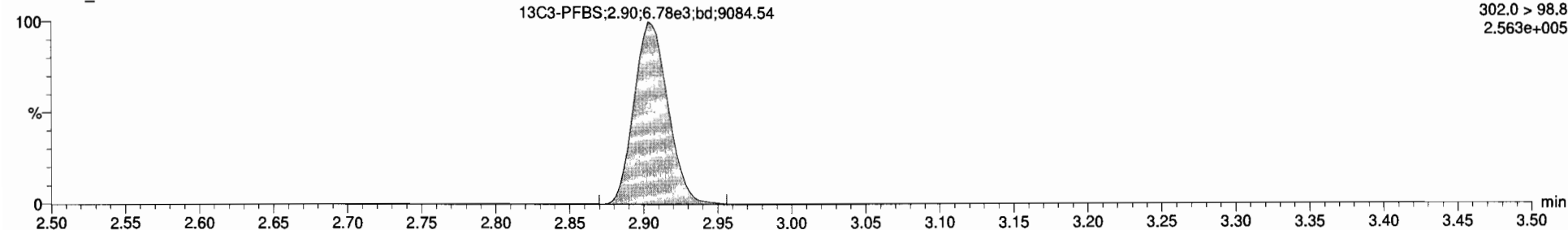


170413G1\_4



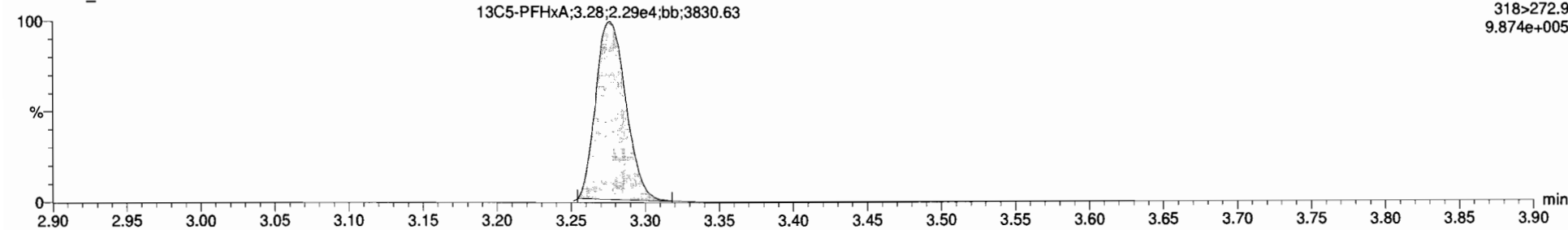
**13C3-PFBS**

170413G1\_4



**13C5-PFHxA**

170413G1\_4



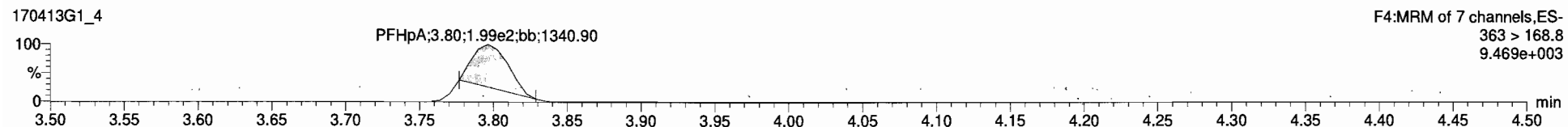
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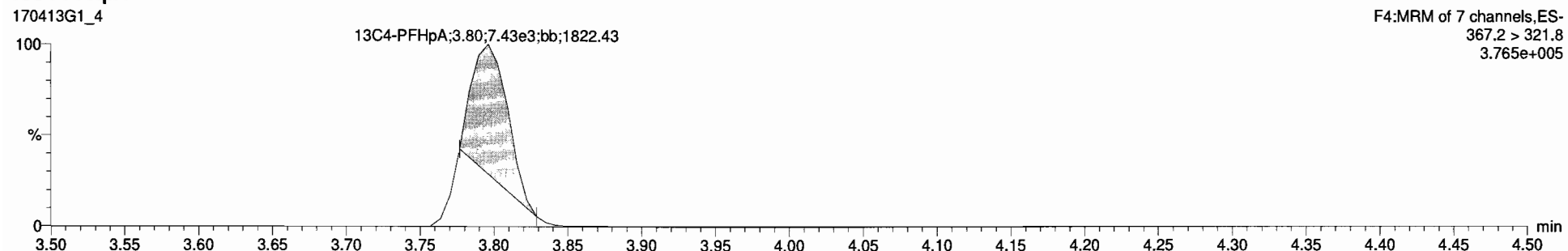
Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

ID: ST170413G1-3 PFC CS0 17D1303, Description: PFC CS0 17D1303 A, Name: 170413G1\_4, Date: 13-Apr-2017, Time: 10:04:14, Instrument: , Lab: , User:

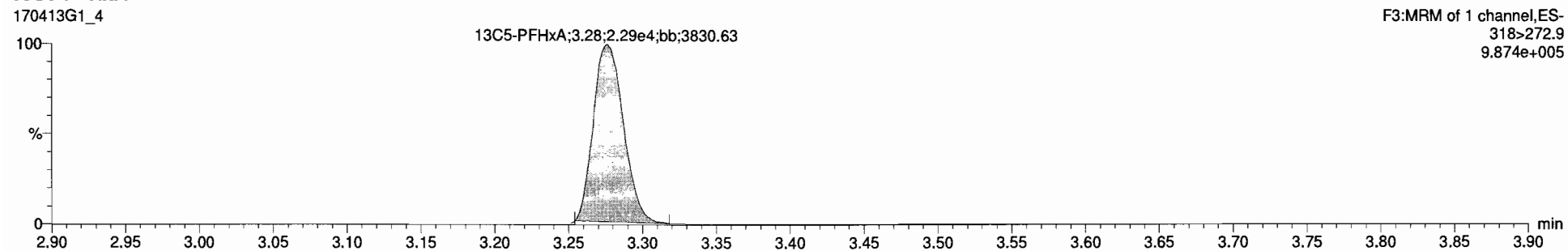
**PFHpA**



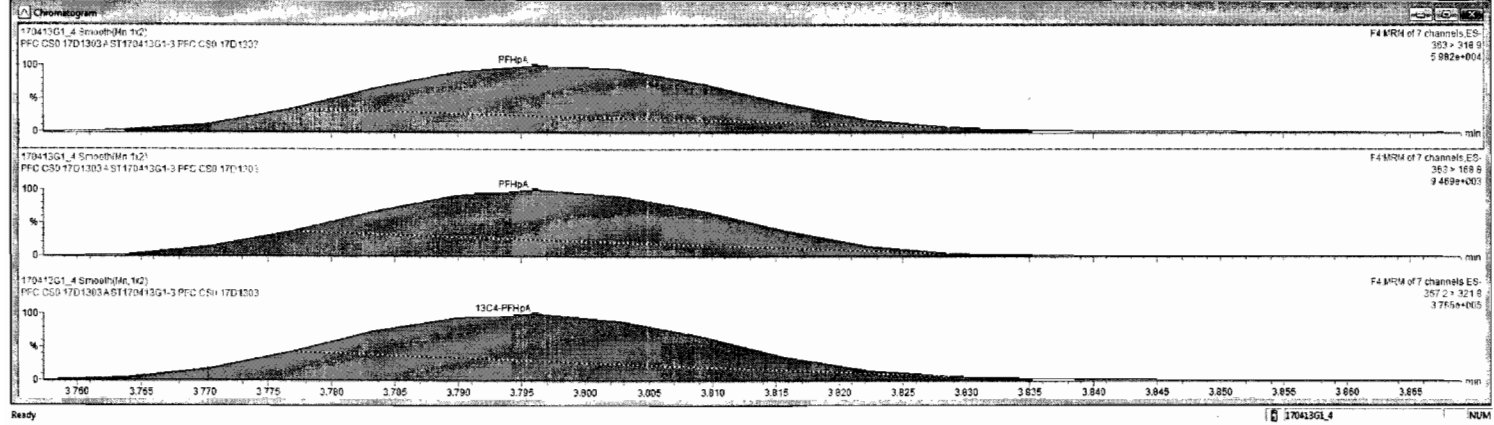
**13C4-PFHpA**



**13C5-PFHxA**

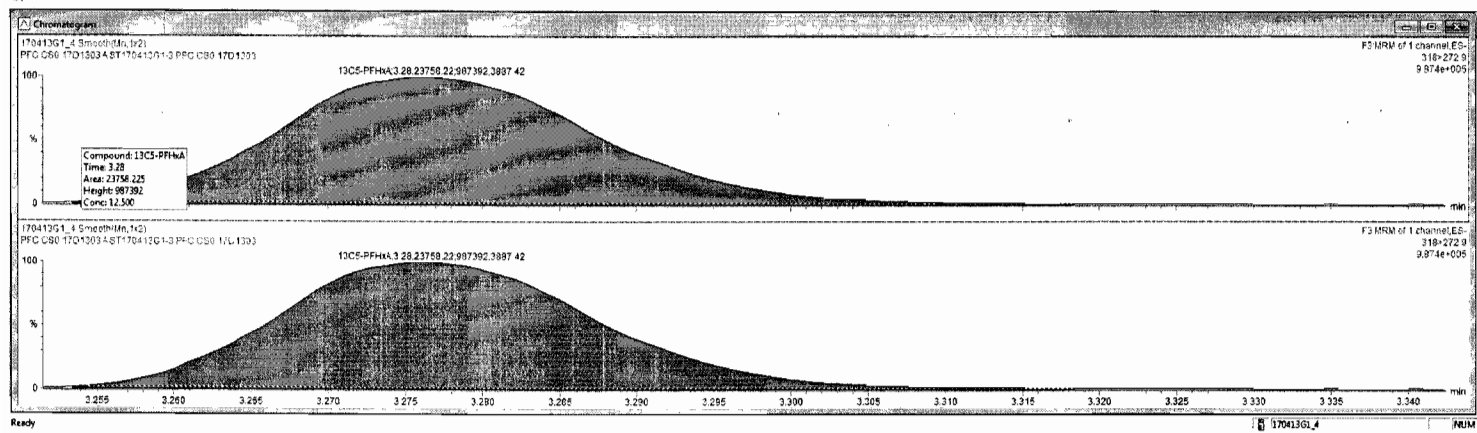


#	Name	Comp	DL	%Rec	EMPC	Abs Resp	RSP	RT	#	Std	RA	Y/N	REI	Acq Date	Acq Time	1 <sup>st</sup> Chr Name	D	Sample Test	Factor1	SW	Cal File	MDL
1	PFBS	0.96381804	0.002556	96.4		1.47463		2.91	1	7	0.257	ES	1.000	13-Apr-17	10:04:14	11 237	ST170413G	PFC CS0 17D13	1.0	1.00		NO
2	PFHxA	0.87671145		87.2		2.89545		3.84	2	8			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
3	PFHxS	0.95031910		95.2		1.31363		3.92	3	9			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
4	PFDA	0.93429760		93.4		2.59740		4.21	4	10			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
5	PFNA	0.99959510		99.9		2.14563		4.65	5	11			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
6	PFOS	1.81522724	0.0976	101.5		2.90340		4.62	6	12			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
7	13C4-PFBS	12.932205	0.00460	103.5		6.77743	0.453	2.90	7	14			0.896	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
8	13C4-PFHxA	13.342523	0.0133	106.7		1.32444	0.857	3.80	8	14			0.969	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
9	13C4-PFHxS	13.116781	0.0169	104.9		6.87643	0.440	3.92	9	14			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
10	13C4-PFDA	13.448123	0.00702	107.8		2.95644	3.366	4.21	10	15			1.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
11	13C4-PFNA	13.986896	0.0326	105.5		9.19643	0.949	4.65	11	16			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
12	13C4-PFOS	13.227242	0.0130	105.8		1.82294	1.594	4.62	12	17			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
13	13C4-PFHxA	12.501000	0.0084	100.0		2.37644	1.068	3.28	13	13			0.500	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
14	13C4-PFHxS	12.501000	0.0252	105.0		1.44744	1.000	3.92	14	14			0.800	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
15	13C4-PFDA	12.501000	0.00612	100.0		6.27043	1.000	4.21	15	15			0.800	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
16	13C4-PFNA	12.501000	0.0196	100.0		9.23343	1.000	4.65	16	16			0.900	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
17	13C4-PFOS	12.501000	0.03926	105.0		7.63243	1.000	4.62	17	17			0.800	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
18	Total PFBS	0.96381804	0.000756						18					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
19	Total PFHxA	1.8405870							19					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
20	Total PFDA	0.93429763							20					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
21	Total PFOS	1.4332876	0.0976						21					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO



Targetlynx 17041361.CW  
 File Edit View Display Processing Window Help  
 17041361\_4\_ST17041361\_3.PFC.CS0\_17D1303-.PFC.CS0\_17D1303A

Name	Conc	DL	%Rec	EMPC	alk Rese	RF	RT	#	GB	DA	Y/N	RET	AcqDate	AcqTime	1 <sup>st</sup> Chrom	D	Sample Test	Factor1	Q/M	CalFs	MDL
PFBS	0.6481054	0.00355	98.4	1.474e3		2.91	1	7	0.287	YES	1.002	13-Apr-17	10:04:14	10:04:14	11.237	ST170413G	PFC CS0 17D1303	1.0	1.00		NO
PFHxA	0.97671445		97.7	2.692e3		3.00	2	1			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
PFHxS	0.9821010		58.2	1.313e3		3.92	3	0			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
PFCA	0.95439783		93.4	2.367e3		4.21	4	10			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
PFNA	0.89999916		99.0	2.146e3		4.55	5	11			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
PFOS	1.6152724	0.0976	101.6	2.982e2		4.82	6	12			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C3-PFBS	12.932285	0.00488	103.5	6.777e3	0.483	2.90	7	14			0.986	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C4-PFHxA	13.342523	0.0133	106.7	1.324e4	0.657	3.00	8	14			0.989	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C5-PFHxS	13.118781	0.0169	104.9	6.676e3	0.440	3.92	9	14			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C6-PFCA	13.449128	0.00702	107.6	2.995e4	3.386	4.21	10	15			1.001	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C5-PFNA	13.558666	0.00835	108.5	9.196e3	0.909	4.55	11	15			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C5-PFOS	13.227252	0.0150	109.8	1.952e4	1.304	4.62	12	17			1.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C5-PFHxA	12.500000	0.00804	100.0	2.376e4	1.000	3.28	13	13			0.800	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C5-PFHxS	12.500000	0.0252	100.0	1.447e4	1.000	3.92	14	14			0.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C6-PFCA	12.500000	0.00615	100.0	0.270e3	1.000	4.21	15	15			0.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C5-PFNA	12.500000	0.0106	100.0	9.333e3	1.000	4.64	16	16			0.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
13C4-PFOS	12.500000	0.00928	100.0	7.692e3	1.000	4.62	17	17			0.000	13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
Total PFBS	0.95381054	0.00765				16						13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
Total PFHxS	1.8406670					19						13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
Total PFCA	0.93429783					20						13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO
Total PFOS	1.4332876	0.0976				21						13-Apr-17	10:04:14	10:04:14		ST170413G	PFC CS0 17D1303	1.0	1.00		NO



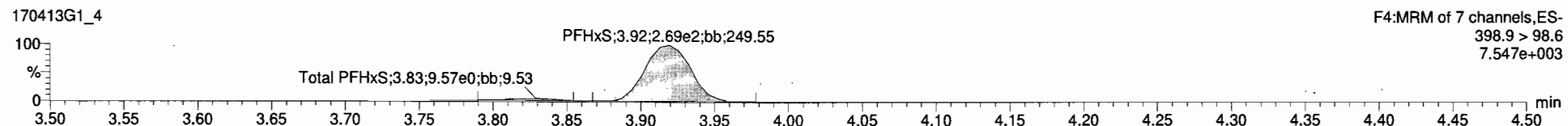
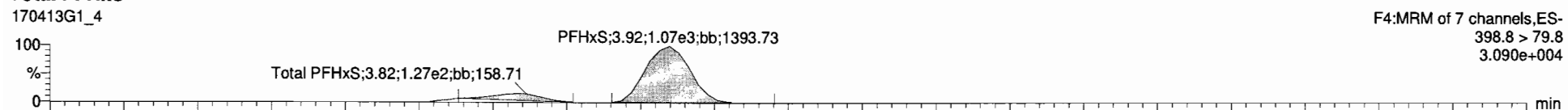
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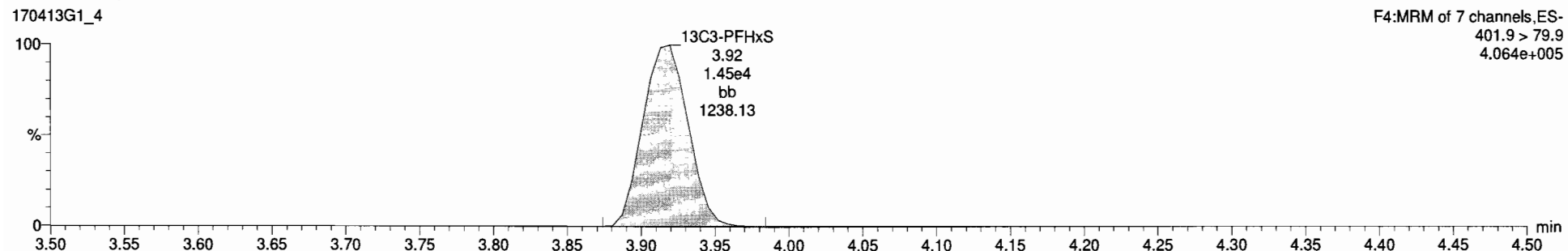
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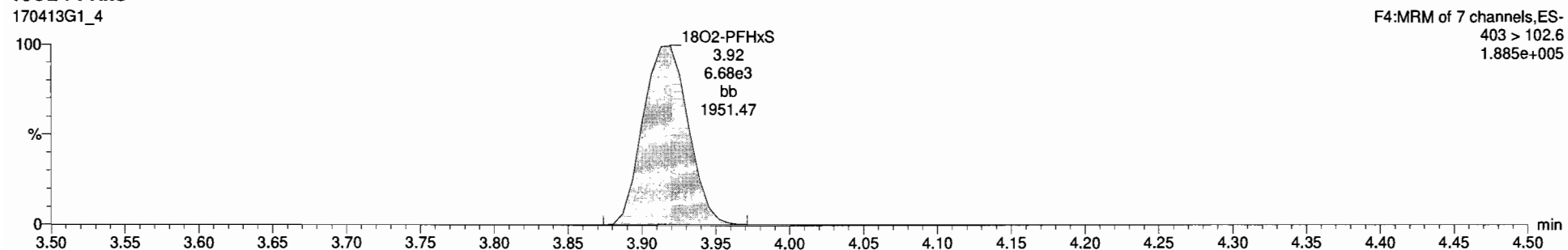
**Total PFHxS**



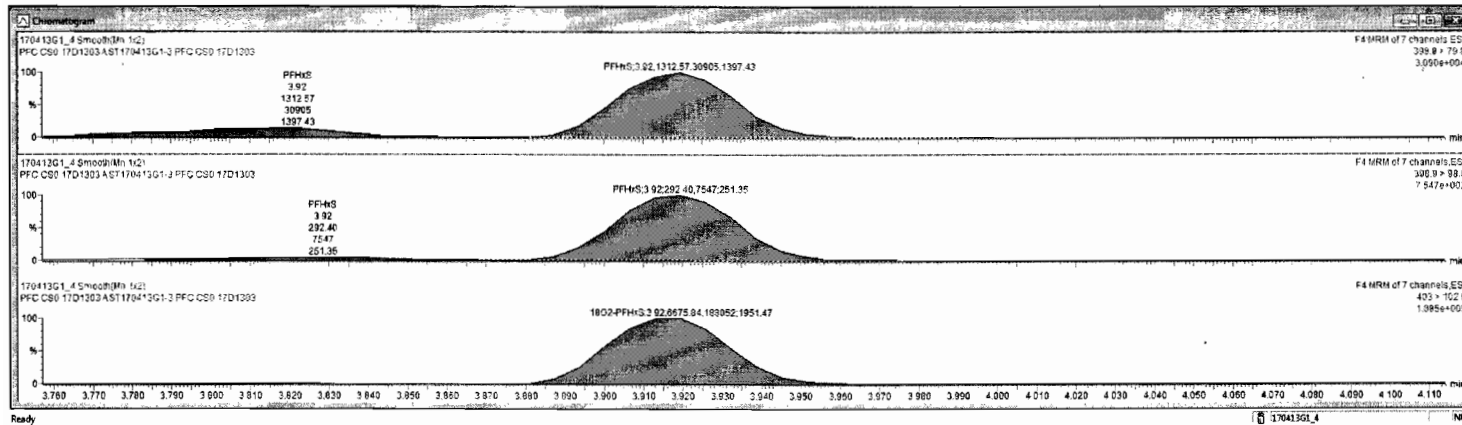
**13C3-PFHxS**



**18O2-PFHxS**



170413G1_4 - ST170413G1-3 PFC CS0 17D1203 - PFC CS0 17D1303 A																						
#	Name	Comp	OL	%Rec	WV	Abn Resp	RF	RT	#	Ref	RA	Y/N	RRT	Acq Date	Acq Time	1 <sup>st</sup> Chr House ID	Sample Text	Factor1	SWT	Cal File	MDC	
1	PFBS	0.96381084	0.965558	96.4		1.474e3		2.91	1	7	0.257		1.002	13-Apr-17	10:04:14	11.237	ST170413G	PFC CS0 17D13	1.0	1.00		NO
2	PFNA	0.97571145		97.7		2.095e3		3.50	2	5			1.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
3	PFOS	0.96429763		96.2		1.070e3		3.92	3	9			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
4	PFDA	0.93429763		93.4		2.387e3		4.21	4	10			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
5	PFNA	0.8995919		90.0		2.146e3		4.55	5	11			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
6	PFOS	1.0152724	0.0575	101.5		2.362e3		4.62	6	12			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
7	13C3-PFBS	12.832205	0.90480	103.5		6.777e3	0.453	2.89	7	14			0.898	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
8	13C3-PFNA	13.342523	0.9123	106.7		1.324e4	0.957	3.89	8	14			0.909	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
9	18O2-PFHS	13.116781	0.9169	104.9		8.676e3	0.440	3.52	9	14			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
10	13C3-PFDA	13.448123	0.93703	107.6		2.995e4	3.358	4.21	10	15			1.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
11	13C3-PFNA	13.556886	0.90335	100.5		9.196e3	0.909	4.55	11	16			1.002	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
12	13C3-PFOS	13.222762	0.9130	105.0		1.062e4	1.304	4.62	12	17			1.002	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
13	13C3-PFNA	12.559000	0.92804	105.0		2.276e4	1.008	3.28	13	13			0.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
14	13C3-PFHS	12.559000	0.9252	100.0		1.447e4	1.090	3.92	14	14			0.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
15	13C3-PFDA	12.559000	0.92613	102.0		9.276e3	1.009	4.21	15	15			0.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
16	13C3-PFNA	12.559000	0.9186	100.0		9.333e3	1.006	4.55	16	16			0.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
17	13C3-PFOS	12.509000	0.92929	100.0		7.092e3	1.006	4.52	17	17			0.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
18	Total PFBS	0.96381084	0.95763						13					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
19	Total PFNA	1.0455870							19					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
20	Total PFDA	0.93429763							20					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO
21	Total PFOS	1.4322676	0.9076						21					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13	1.0	1.00		NO





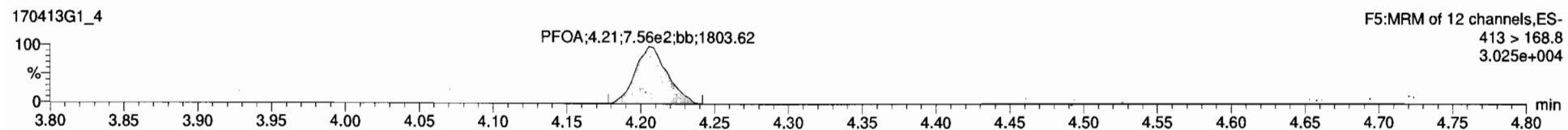
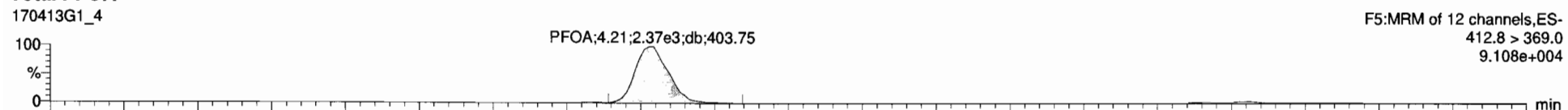
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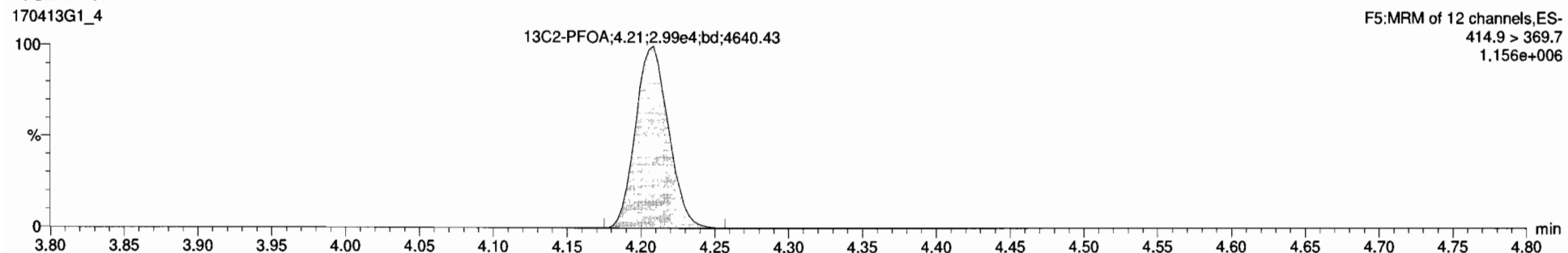
Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

ID: ST170413G1-3 PFC CS0 17D1303, Description: PFC CS0 17D1303 A, Name: 170413G1\_4, Date: 13-Apr-2017, Time: 10:04:14, Instrument: , Lab: , User:

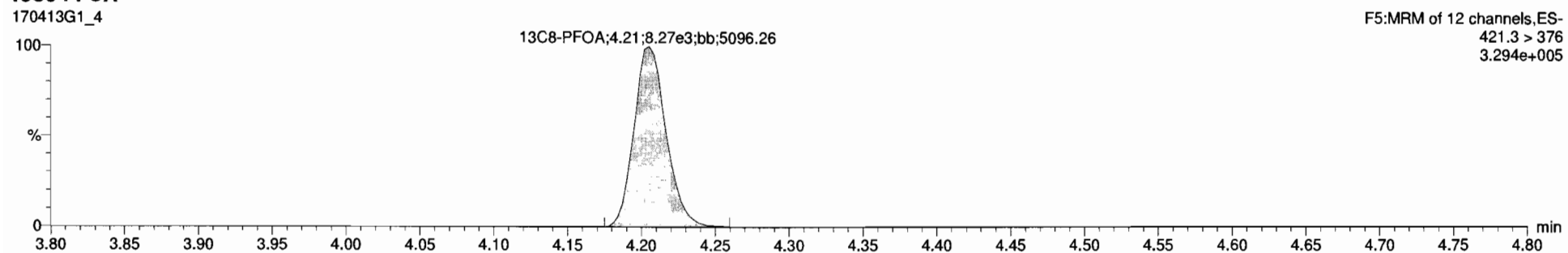
**Total PFOA**



**13C2-PFOA**



**13C8-PFOA**



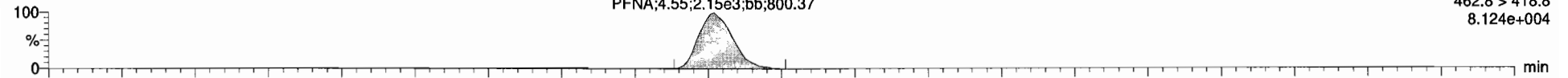
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Last Altered: Thursday, April 13, 2017 12:09:13 Pacific Daylight Time  
Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

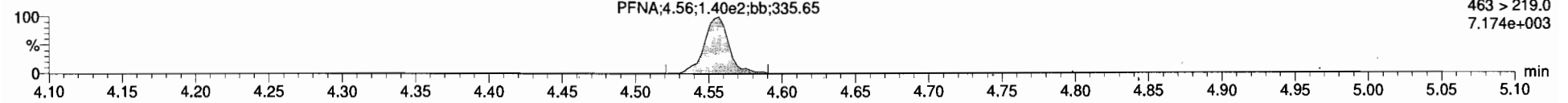
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**PFNA**

170413G1\_4

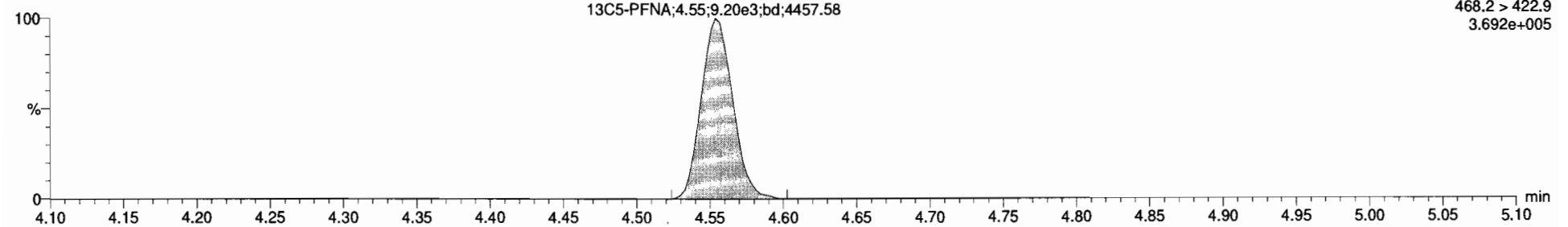


170413G1\_4



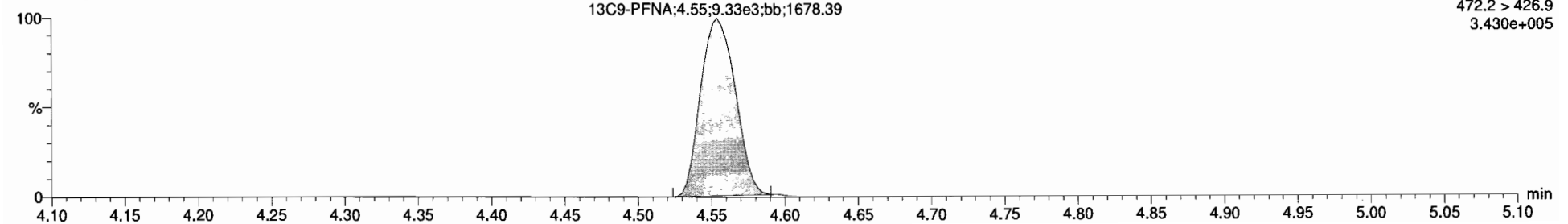
**13C5-PFNA**

170413G1\_4



**13C9-PFNA**

170413G1\_4

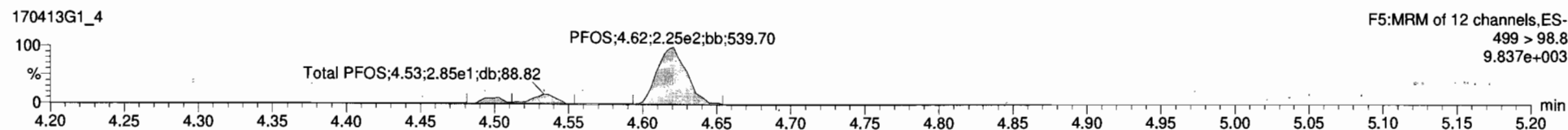
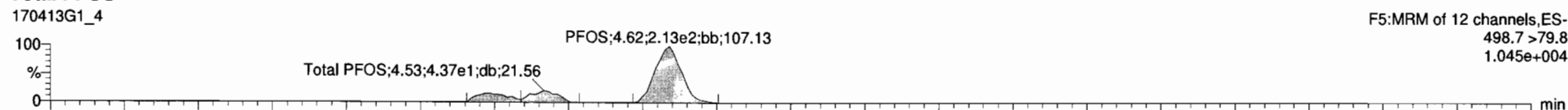


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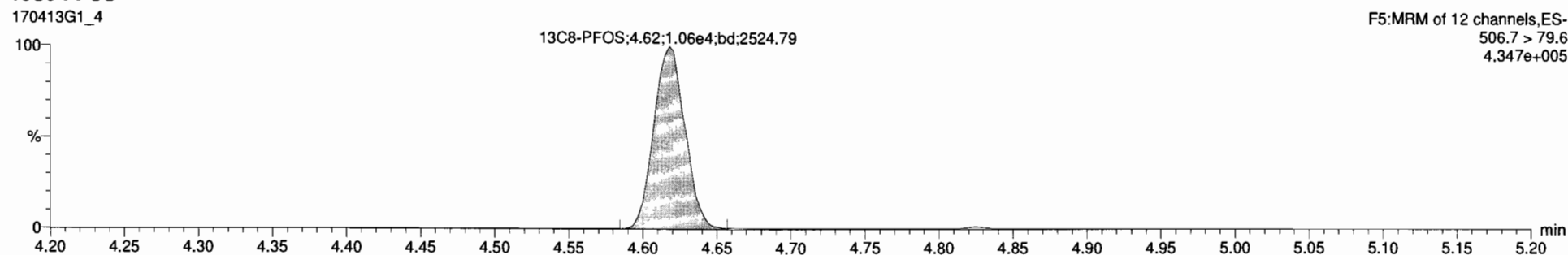
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ID: ST170413G1-3 PFC CS0 17D1303, Description: PFC CS0 17D1303 A, Name: 170413G1\_4, Date: 13-Apr-2017, Time: 10:04:14, Instrument: , Lab: , User:

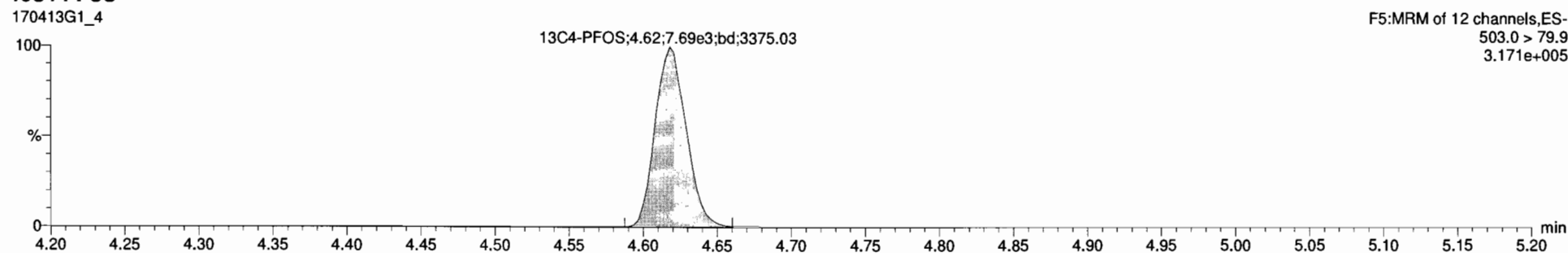
**Total PFOS**



**13C8-PFOS**

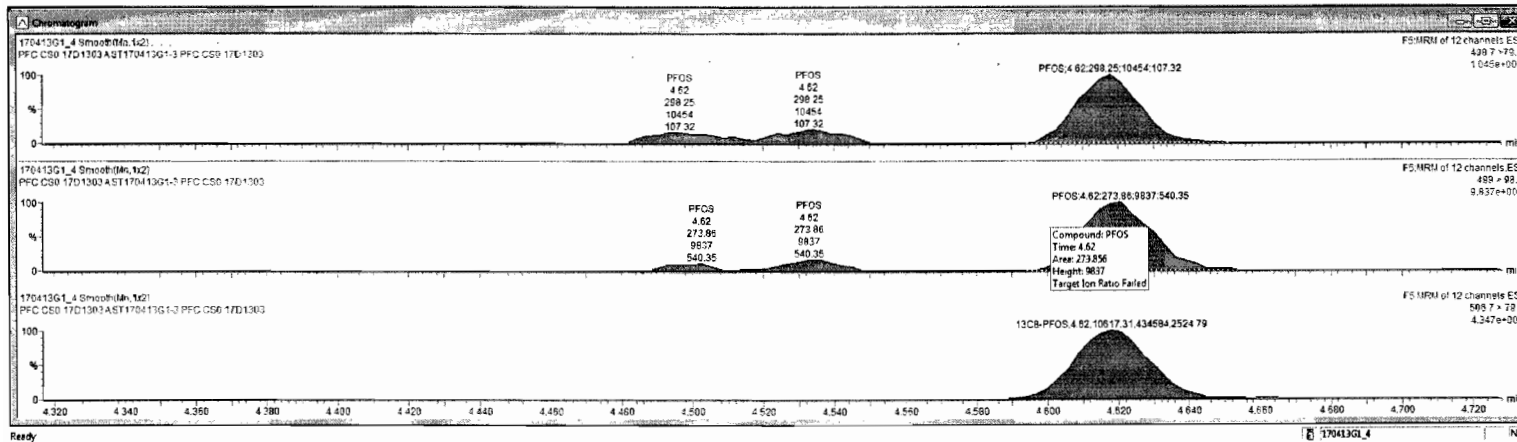


**13C4-PFOS**



170413G1\_4 - ST170413G1-3 PFC CS0 17D1303 - PFC CS0 17D1303 A

SL	Name	Conc	DL	%Rec	EMPC	Abs Resp	RRP	RT	#	IS	DA	Y/N	RRT	Acq Date	Acq Time	1*Chr/Noes	ID	Sample Text	Factor1	SVI	Cal/F6	>IDL
1	PFBS	0.96381654	0.005556	95.4		1.47463	2.91	7	7	0.207	YES		1.002	13-Apr-17	10:04:14	11.237	ST170413G	PFC CS0 17D13...	1.0	1.00		NO
2	PFHpA	0.97871145		97.7		2.09563	5.80	2	8				1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
3	PFHxS	0.95231610		95.2		1.31563	3.92	3	9				1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
4	PFNA	0.93429793		93.4		2.39763	4.21	4	10				1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
5	PFNA	0.86955515		90.0		2.14663	4.55	4	11				1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
6	PFOS	1.8152724	0.0676	101.5		2.95262	4.42	16	12				1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
7	13C3-PFBS	12.932205	0.05493	103.5		6.77763	0.453	2.90	7	14			0.886	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
8	13C4-PFHpA	13.342523	0.5133	106.7		1.32464	0.857	3.80	8	14			0.969	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
9	18O2-PFHxS	13.116781	0.6169	104.9		6.67663	0.440	3.92	9	14			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
10	13C2-PFOA	13.448122	0.00702	107.6		2.99564	3.366	4.21	10	15			1.001	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
11	13C3-PFNA	13.558686	0.66335	105.5		9.19663	0.909	4.55	11	16			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
12	13C2-PFOS	13.227262	0.6130	105.6		1.95264	1.364	4.62	12	17			1.000	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
13	13C3-PFHpA	12.586006	0.65024	100.0		2.37664	1.090	3.20	13	15			0.600	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
14	13C3-PFHxS	12.560000	0.6250	100.0		1.44764	1.000	3.92	14	14			0.600	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
15	13C3-PFOA	12.560000	0.60813	100.0		6.27663	1.000	4.21	15	15			0.600	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
16	13C3-PFNA	12.560000	0.6186	100.0		9.33663	1.000	4.55	16	15			0.600	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
17	13C4-PFOS	12.560000	0.60625	100.0		7.69263	1.000	4.62	17	17			0.600	13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
18	Total PFBS	0.96381654	0.006768						18					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
19	Total PFHpA	1.040570							19					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
20	Total PFOA	0.93429793							20					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO
21	Total PFOS	1.4332678	0.6876						21					13-Apr-17	10:04:14		ST170413G	PFC CS0 17D13...	1.0	1.00		NO



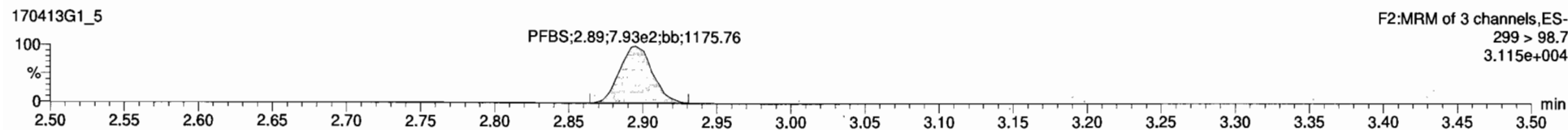
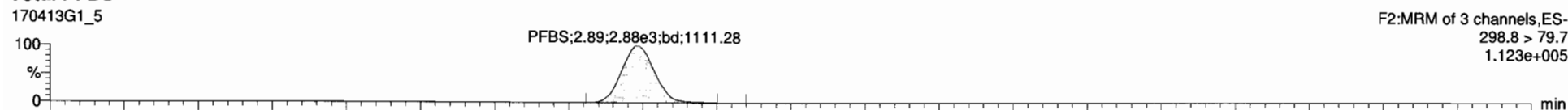
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Last Altered: Thursday, April 13, 2017 12:09:13 Pacific Daylight Time

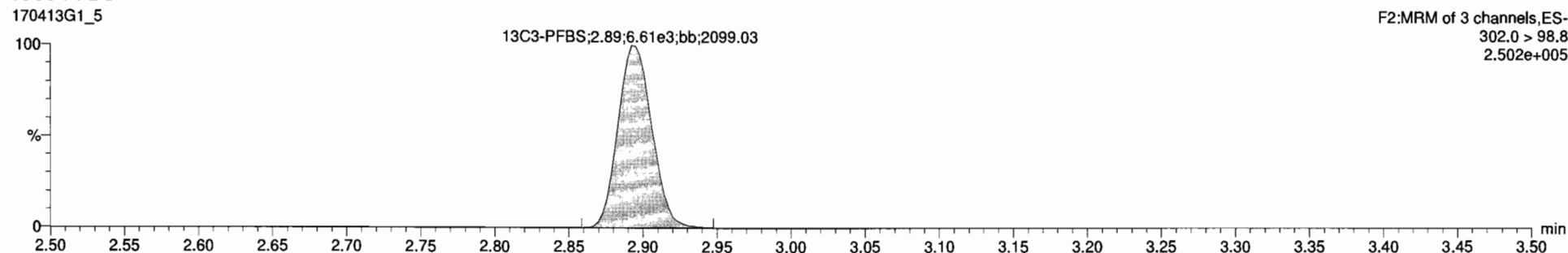
Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

ID: ST170413G1-4 PFC CS1 17D1304, Description: PFC CS1 17D1304 A, Name: 170413G1\_5, Date: 13-Apr-2017, Time: 10:19:55, Instrument: , Lab: , User:

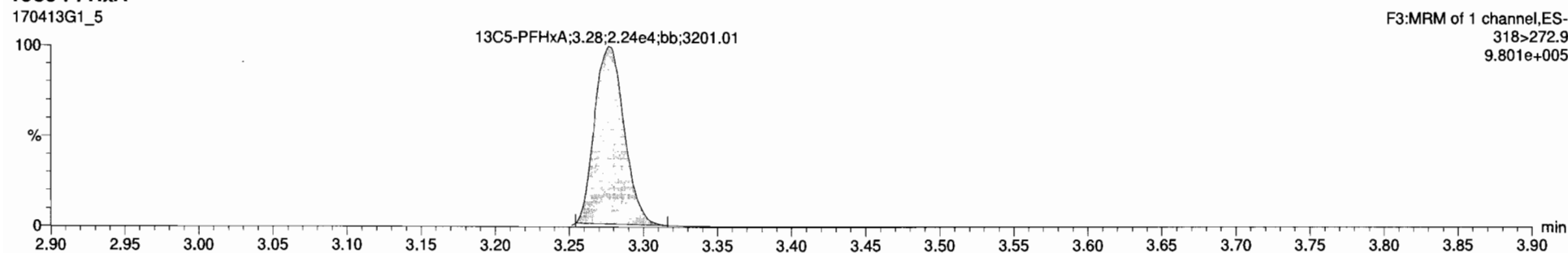
**Total PFBS**



**13C3-PFBS**



**13C5-PFHxA**



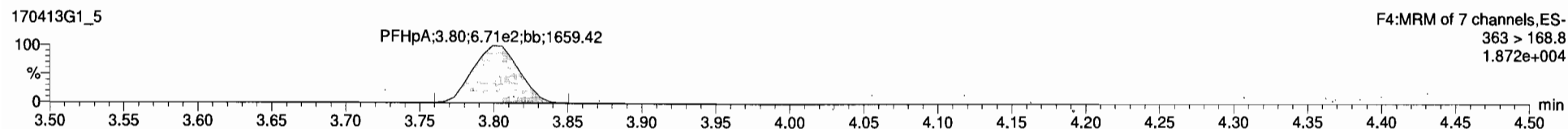
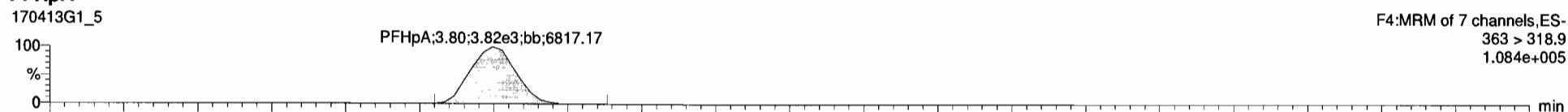
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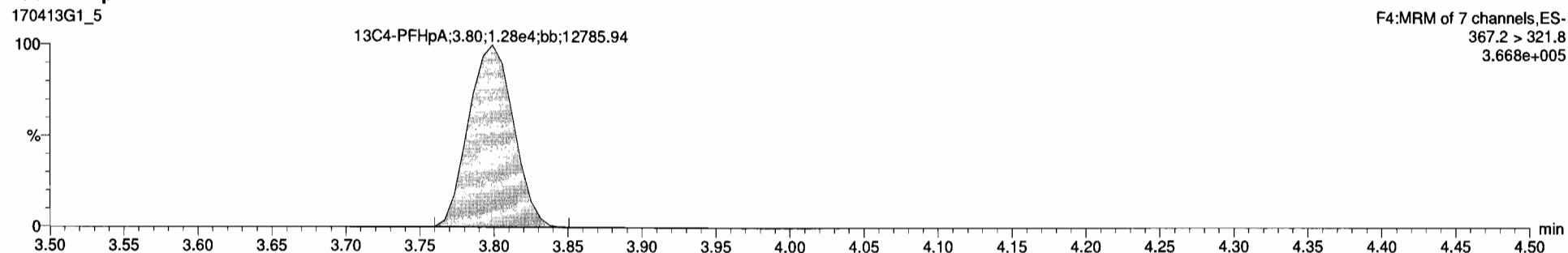
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ID: ST170413G1-4 PFC CS1 17D1304, Description: PFC CS1 17D1304 A, Name: 170413G1\_5, Date: 13-Apr-2017, Time: 10:19:55, Instrument: , Lab: , User:

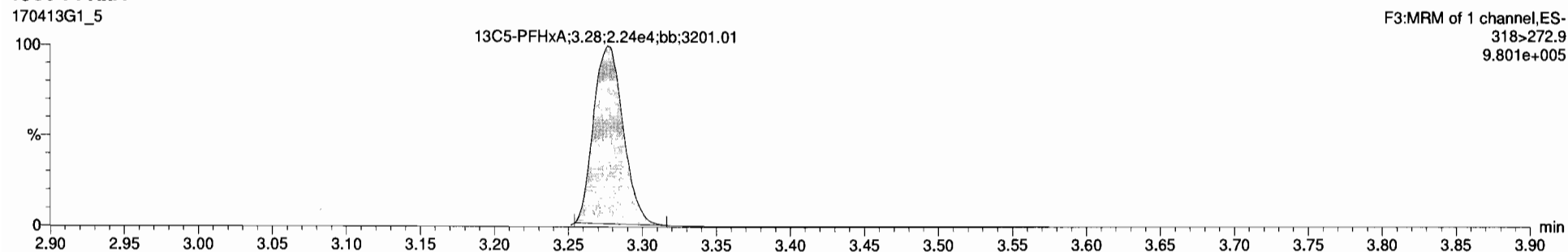
**PFHpA**



**13C4-PFHpA**



**13C5-PFHxA**



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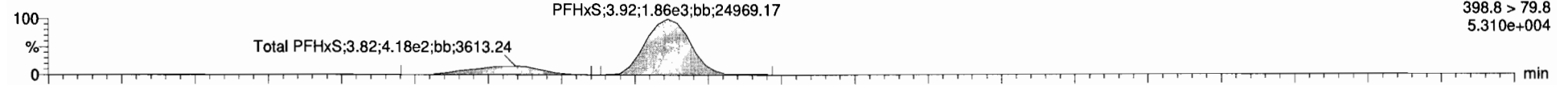
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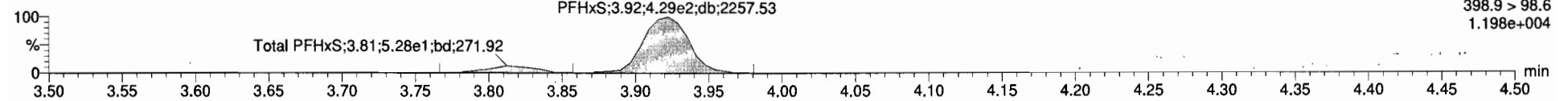
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**Total PFHxS**

170413G1\_5

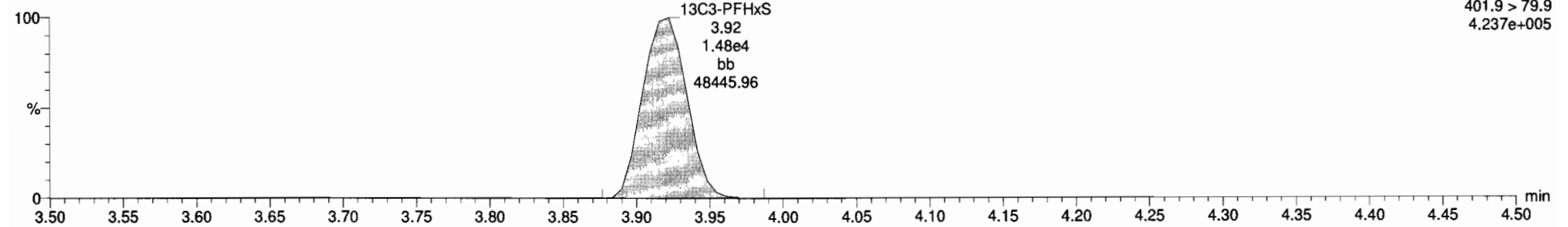


170413G1\_5



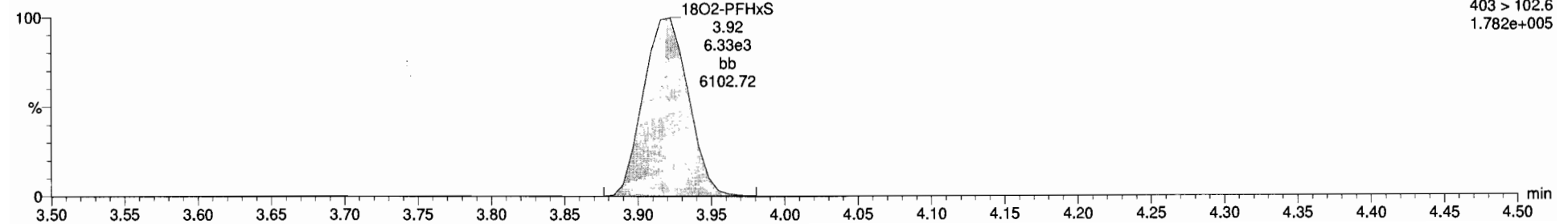
**13C3-PFHxS**

170413G1\_5

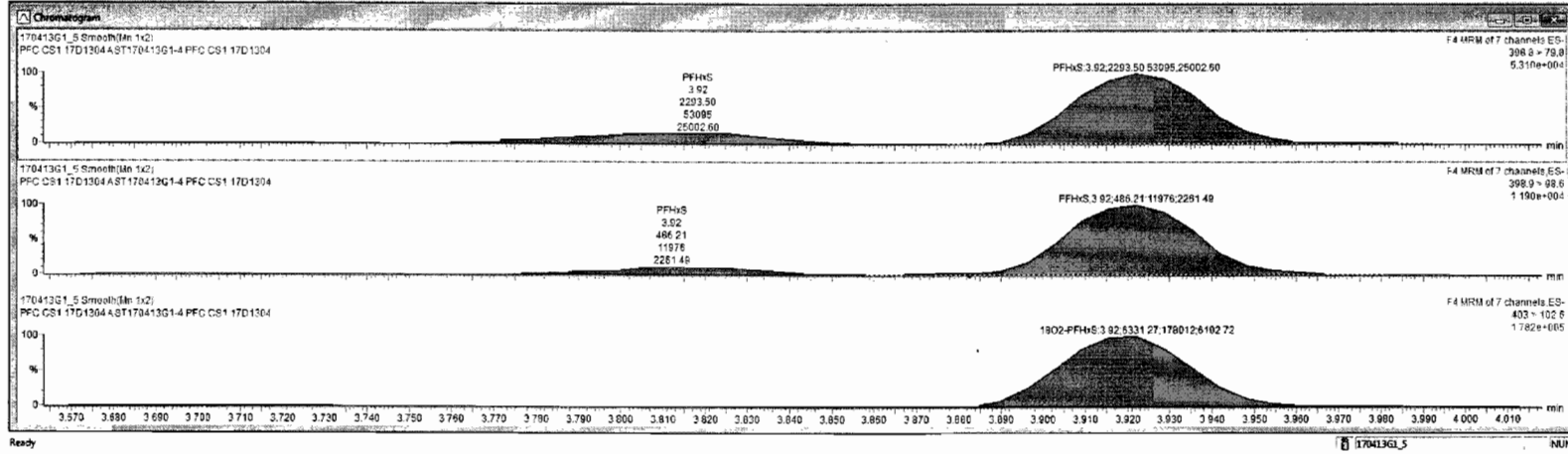


**18O2-PFHxS**

170413G1\_5



ID	Name	Conc	DL	Wt%	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq Date	Acq Time	# Chk Spikes	Sample Test	Falch	SWR	Cal Fa	INCL
1	PFBS	1.9301239	0.00445	96.5		2.87743	2.99	1	7	0.278	YES	1.001	13-Apr-17	10:19:55	26.419	ST170413G	PFC CS1 17D13...	1.0	1.00		NO
2	PFNA	1.8792325		94.0		3.82043	3.00	2	8			1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
3	PFHS	1.8448217		92.2		2.29363	3.92	3	9			1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
4	PFDA	1.9781954		86.9		4.26543	4.21	4	10			0.999	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
5	PFNA	1.7877932		89.4		3.73363	4.58	5	11			1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
6	PFOS	1.9209107	0.0960	95.0		4.75842	4.82	6	12			1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		YES
7	13C3-PFBS	12.313835	0.0194	96.5		6.65963	2.423	2.09	7	14		0.983	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
8	13C4-PFNA	12.644358	0.00247	101.2		1.28444	0.857	3.00	8	14		0.999	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
9	13D2-PFHS	12.152278	0.00490	97.2		6.33163	0.440	3.92	9	14		1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
10	13C2-PFDA	11.922824	0.00296	95.4		2.67864	3.368	4.21	10	15		1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
11	13C5-PFNA	13.000666	0.0112	104.0		8.27543	0.909	4.58	11	18		1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
12	13C6-PFOS	12.319704	0.0138	99.6		8.66043	1.364	4.82	12	17		1.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
13	13C3-PFNA	12.500000	0.00982	108.0		2.31964	1.000	3.92	13			0.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
14	13C3-PFHS	12.500000	0.000645	100.0		1.40264	1.000	3.92	14			0.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
15	13C2-PFDA	12.500000	0.0100	100.0		8.33543	1.000	4.21	15			0.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
16	13C3-PFNA	12.500000	0.00188	108.0		8.75842	1.000	4.58	16			0.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.00580	100.0		8.75842	1.000	4.58	17			0.000	13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
18	Total PFBS	1.9337552	0.00626										13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
19	Total PFHS	2.1472319											13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
20	Total PFDA	1.9781954											13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO
21	Total PFOS	2.2574020	0.0960										13-Apr-17	10:19:55		ST170413G	PFC CS1 17D13...	1.0	1.00		NO





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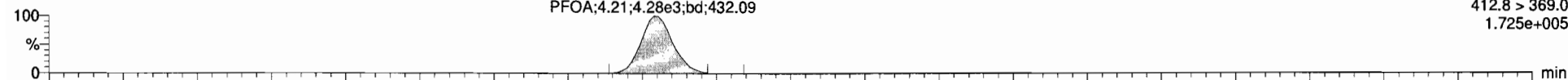
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

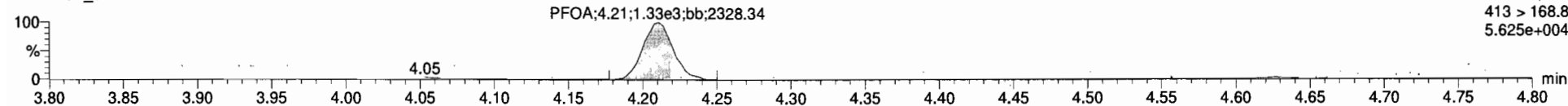
ID: ST170413G1-4 PFC CS1 17D1304, Description: PFC CS1 17D1304 A, Name: 170413G1\_5, Date: 13-Apr-2017, Time: 10:19:55, Instrument: , Lab: , User:

**Total PFOA**

170413G1\_5

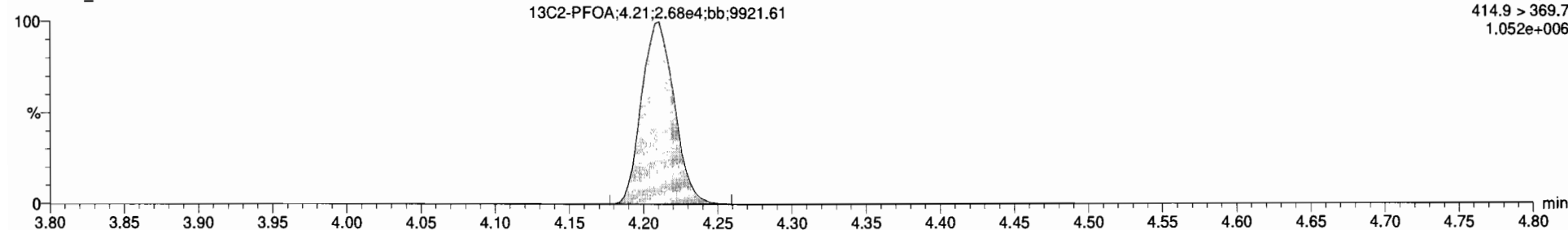


170413G1\_5



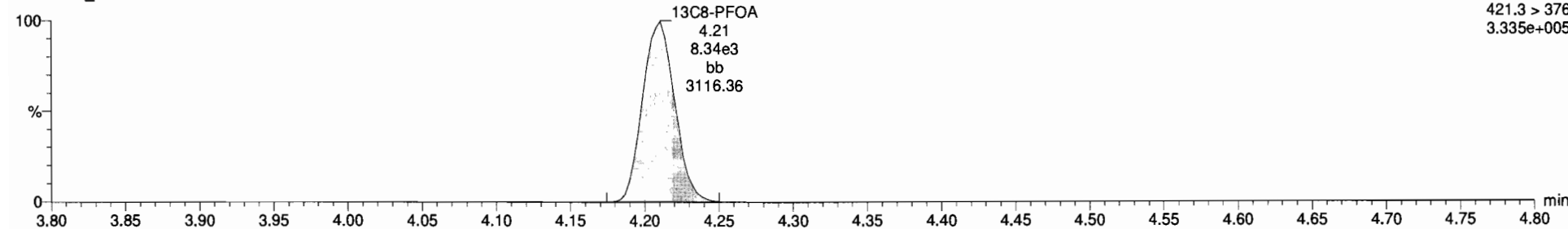
**13C2-PFOA**

170413G1\_5



**13C8-PFOA**

170413G1\_5

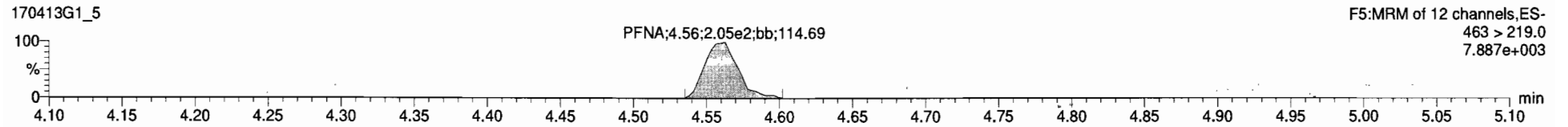
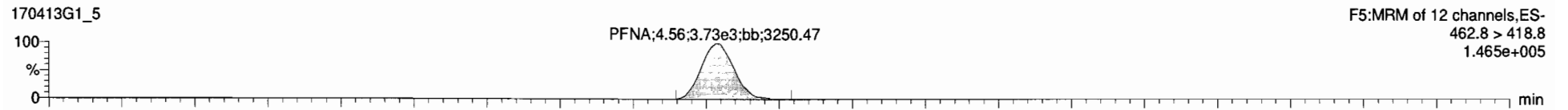


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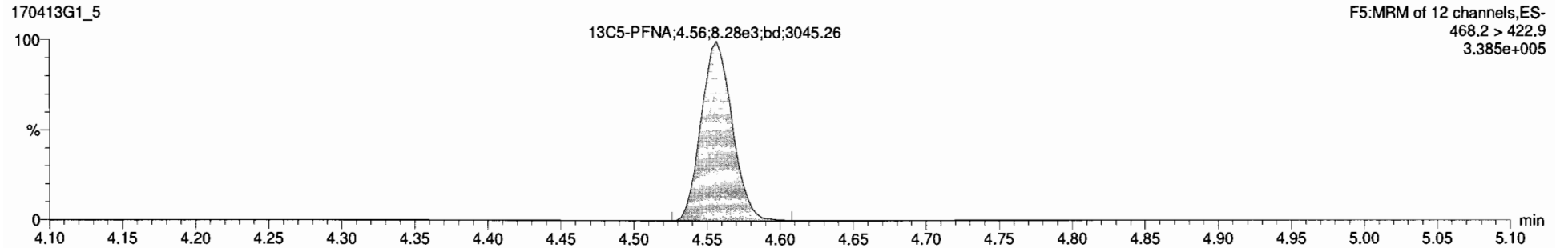
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ID: ST170413G1-4 PFC CS1 17D1304, Description: PFC CS1 17D1304 A, Name: 170413G1\_5, Date: 13-Apr-2017, Time: 10:19:55, Instrument: , Lab: , User:

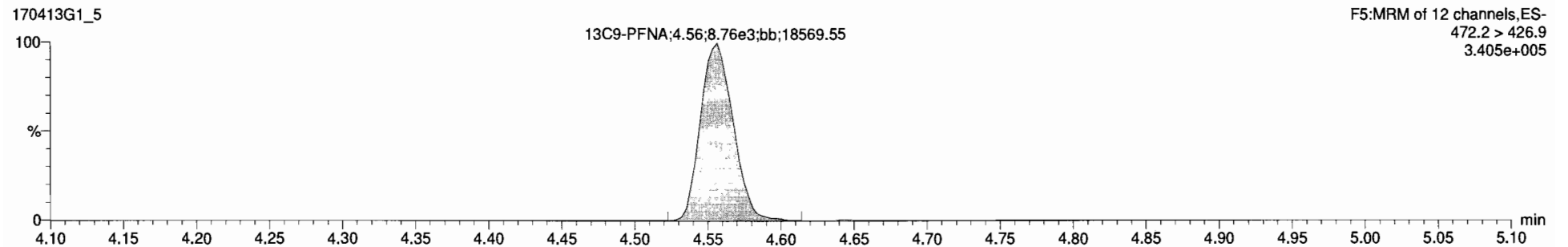
**PFNA**



**13C5-PFNA**



**13C9-PFNA**

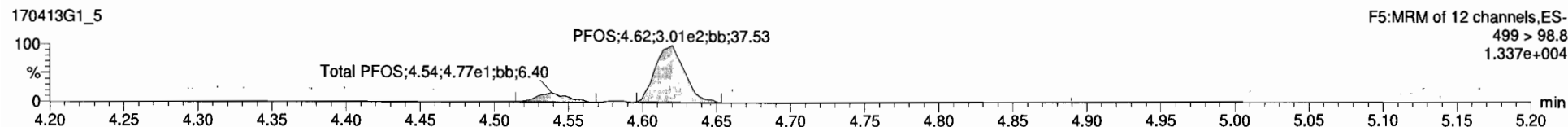
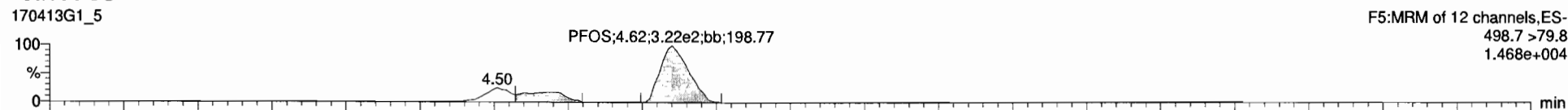


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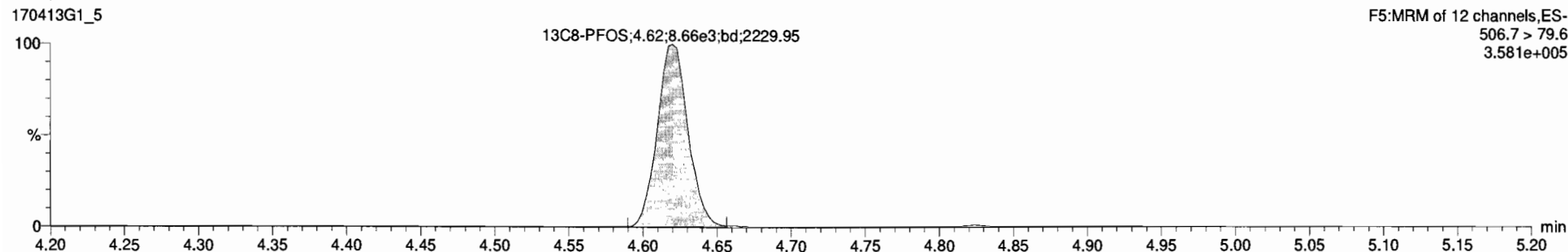
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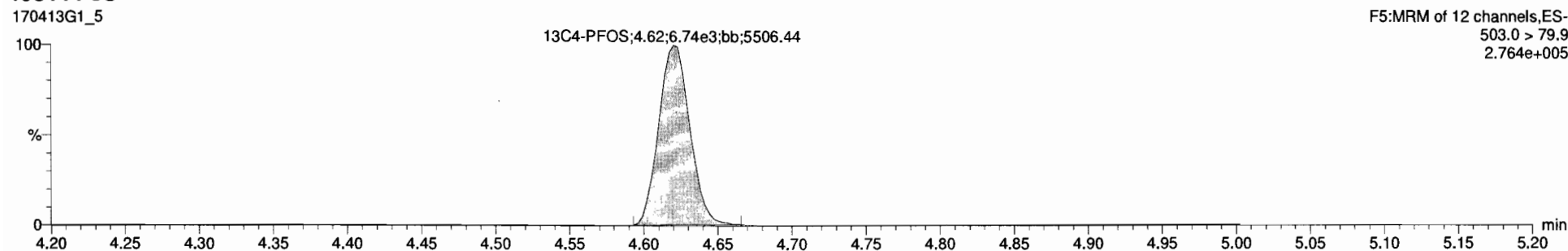
**Total PFOS**

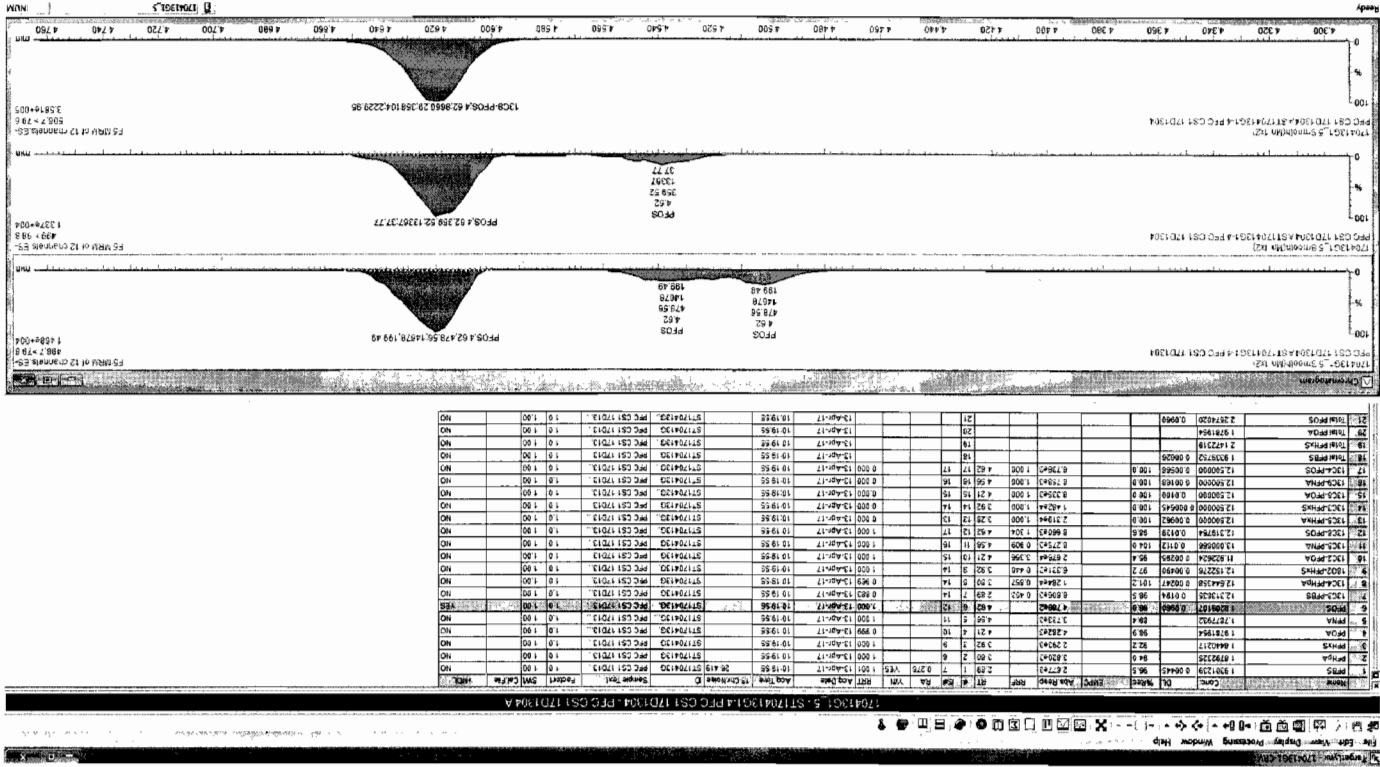


**13C8-PFOS**



**13C4-PFOS**





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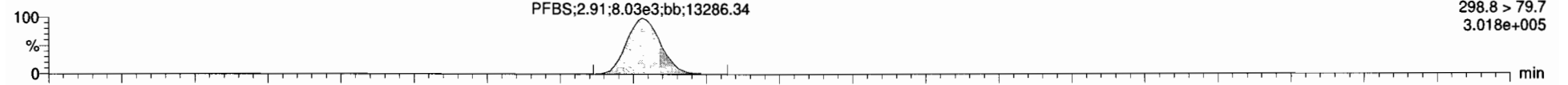
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

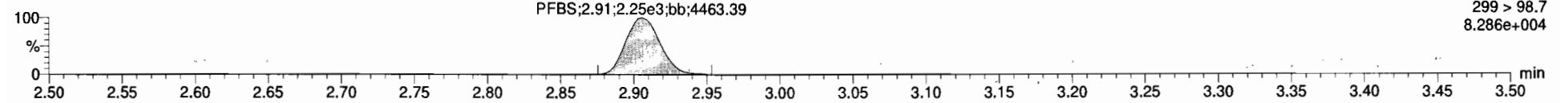
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**Total PFBS**

170413G1\_6

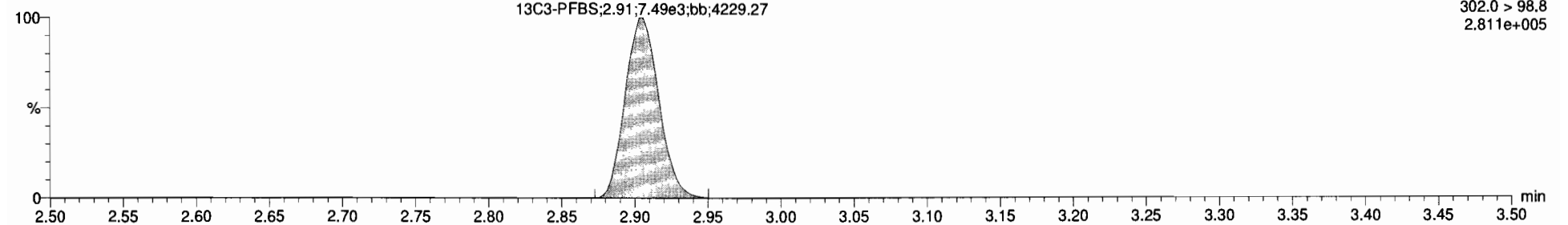


170413G1\_6



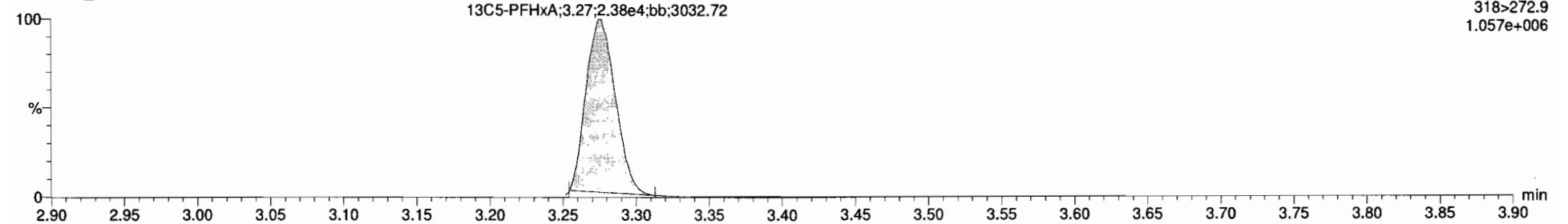
**13C3-PFBS**

170413G1\_6



**13C5-PFHxA**

170413G1\_6



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Last Altered: Thursday, April 13, 2017 12:09:13 Pacific Daylight Time

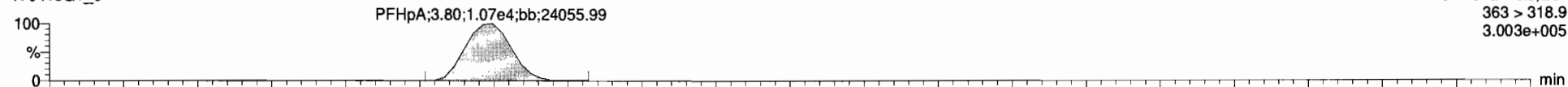
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**PFHpA**

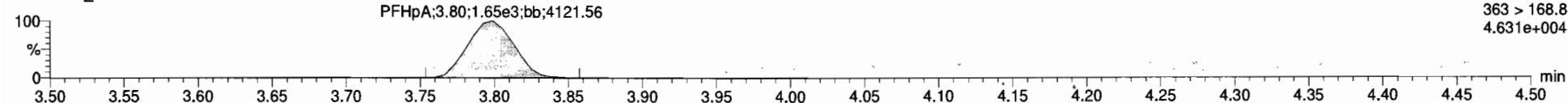
170413G1\_6

F4:MRM of 7 channels,ES-  
363 > 318.9  
3.003e+005



170413G1\_6

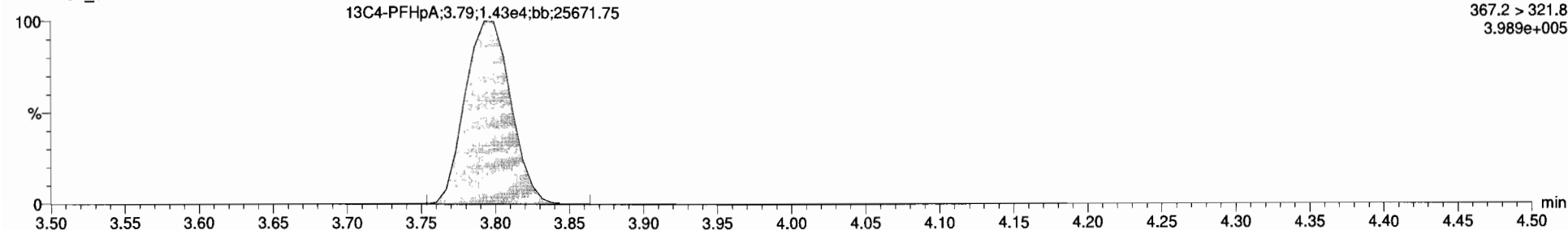
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363 > 168.8  
4.631e+004



**13C4-PFHpA**

170413G1\_6

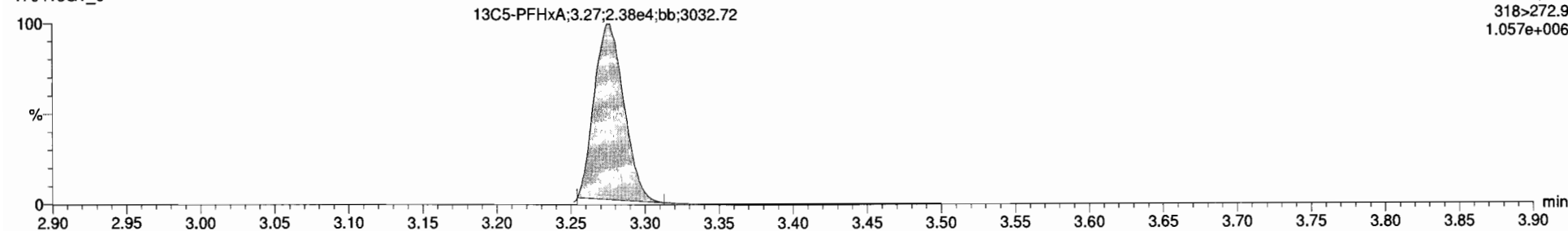
F4:MRM of 7 channels,ES-  
367.2 > 321.8  
3.989e+005



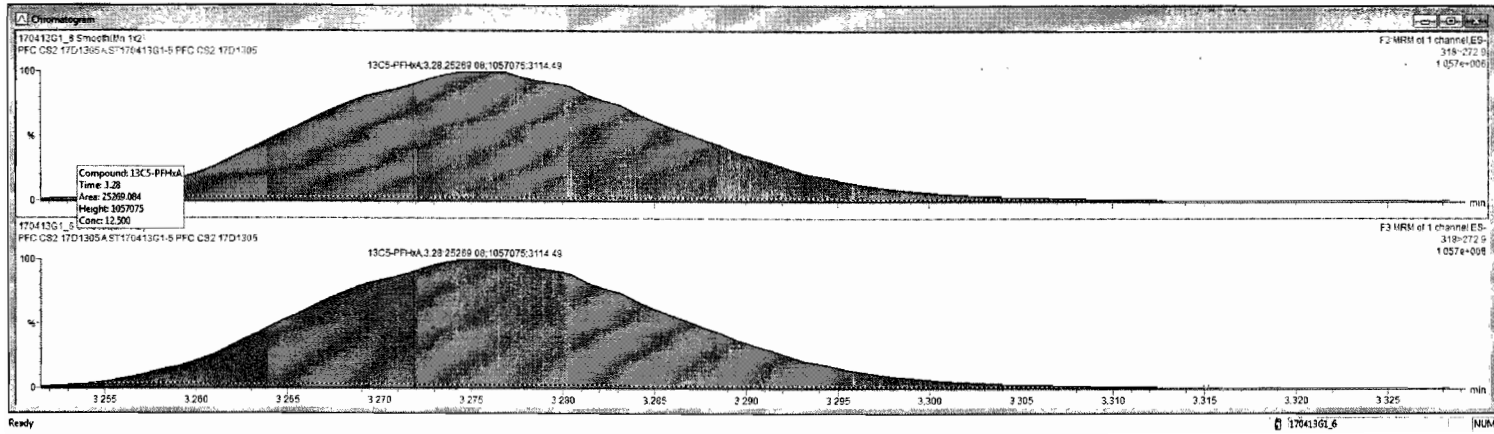
**13C5-PFHxA**

170413G1\_6

F3:MRM of 1 channel,ES-  
318>272.9  
1.057e+006



#	Name	Cons.	DL	%Rec	EMPC	Abn Resp	RHF	RT	#	SN	RA	YN	RRT	Acq Date	Acq Time	1 <sup>st</sup> Chn Name	Sample Text	Factor	SW	Cal P/W	HL
1	PFB5	4.7530468	0.00301	95.1		8.029e3	2.94	1	7	0.261	YES	1.000	13-Apr-17	10:32:30	10:515	ST1704130	PFC CS2 17D13	1.0	1.00		NO
2	PFAA	4.8005643		96.0		1.075e4	3.66	2	8			1.002	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
3	PFA5	5.2480276		105.0		9.509e3	3.52	3	9			1.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		YES
4	PFOA	4.6320405		96.7		1.187e4	4.24	4	10			1.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		YES
5	PFAA	4.7810224		95.2		1.166e4	4.50	5	11			1.001	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		YES
6	PFO5	5.2204052	0.0084	104.4		1.412e3	4.82	6	12			1.001	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		YES
7	13C1-PFB5	12.850000	0.0101	103.0		7.466e3	4.53	7	14			0.807	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
8	13C1-PFAA	13.039590	0.00125	104.3		1.437e4	4.57	8	14			0.963	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
9	13C2-PFA5	12.919824	0.00792	96.6		6.815e3	4.40	9	14			1.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
10	13C2-PFOA	12.893226	0.00623	103.1		3.160e4	3.96	10	15			1.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
11	13C3-PFAA	12.588465	0.0104	106.7		9.374e3	4.90	11	16			1.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
12	13C3-PFO5	12.425032	0.0120	99.4		9.154e3	4.62	12	17			1.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
13	13C3-PFAA	12.568000	0.0109	106.0		2.527e4	4.00	13	13			0.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
14	13C3-PFA5	12.550000	0.00175	105.0		1.602e4	4.00	14	14			0.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
15	13C3-PFOA	12.550000	0.00684	105.0		9.981e3	4.21	15	15			0.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
16	13C3-PFAA	12.550000	0.00433	100.0		1.025e4	4.00	16	16			0.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
17	13C4-PFO5	12.550000	0.00250	100.0		7.069e3	4.00	17	17			0.000	13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
18	Total PFB5	4.7530468	0.00127					18					13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
19	Total PFA5	6.143832						19					13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
20	Total PFOA	4.636465						20					13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO
21	Total PFO5	6.7590213	0.0084					21					13-Apr-17	10:32:30		ST1704130	PFC CS2 17D13	1.0	1.00		NO



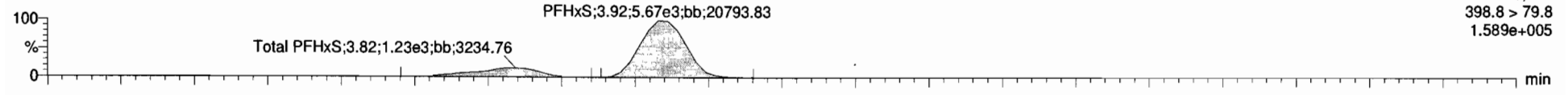
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Last Altered: Thursday, April 13, 2017 12:09:13 Pacific Daylight Time  
Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

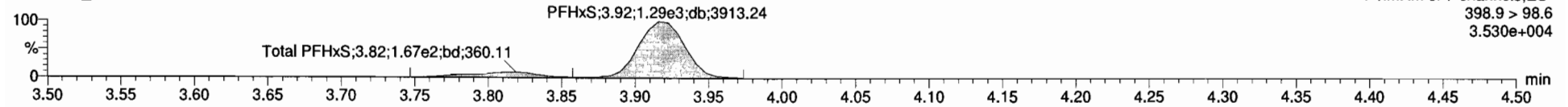
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**Total PFHxS**

170413G1\_6

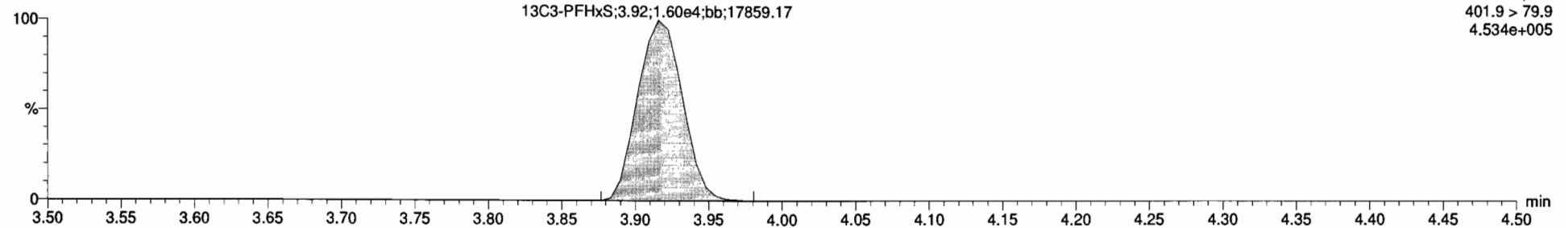


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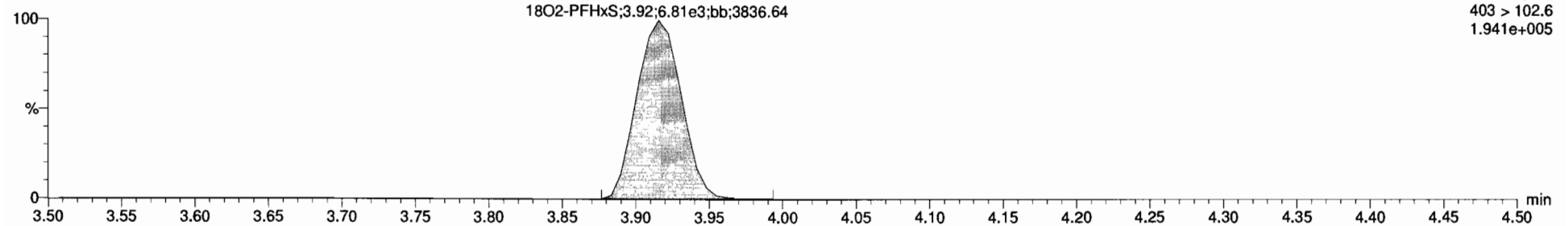
**13C3-PFHxS**

170413G1\_6



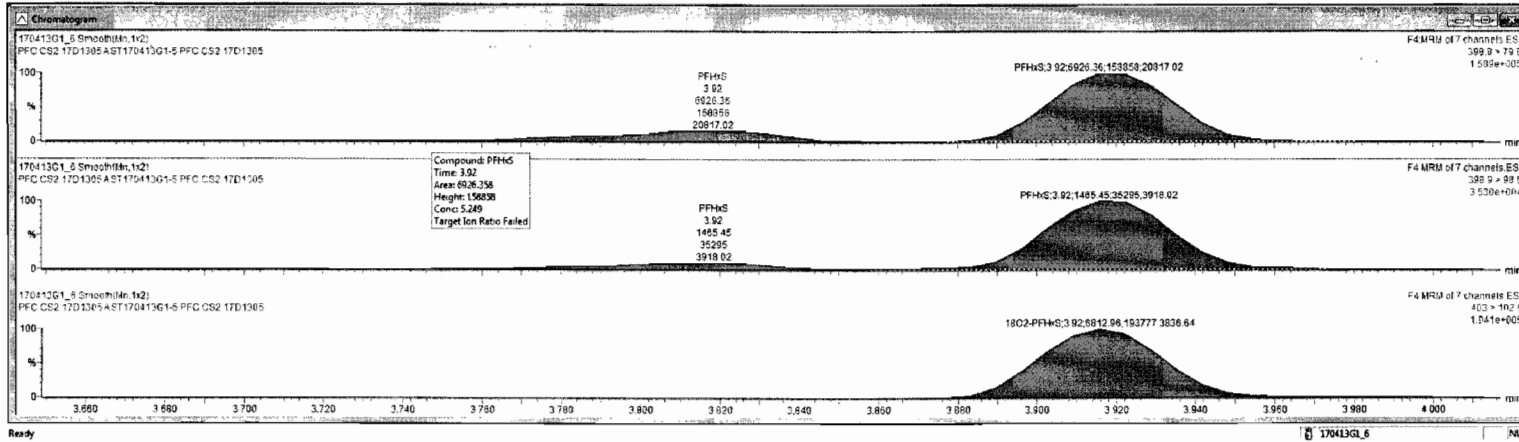
**18O2-PFHxS**

170413G1\_6





Name	Conc	DL	%Rec	EMPC	Abs Relab	RRF	RT	#	Sp	RA	VN	RRT	Acq Date	Acq Time	1 <sup>st</sup> Ch/Noise	ID	Sample Text	Factor1	SWI	Cal File	+MDL
1	PFB	4.752048E	0.00097	95.1	8.029E3	2.91	1	7	0.281		YES	1.000	13-Apr-17	10:32:30	18.515	ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
2	PFB	4.806584E		96.0	1.873E4	3.00	2	8				1.002	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
3	PFB	5.236528E		100.0	8.529E3	3.92	3	9				1.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		YES
4	PFOA	4.436495E		96.7	1.187E4	4.21	4	10				1.001	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		YES
5	PFOA	4.761022E		96.2	1.105E4	4.56	5	11				1.001	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		YES
6	PFOA	5.220469E	0.0564	104.4	1.412E3	4.82	6	12				1.001	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		YES
7	13C3-PFB	12.88080E	0.0101	103.0	7.485E3	0.453	2.91	7	14			0.887	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
8	13C3-PFB	13.03696E	0.06125	104.3	1.435E4	0.857	3.78	8	14			0.965	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
9	18O2-PFB	12.07062E	0.00792	96.6	6.813E3	0.440	3.92	9	14			1.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
10	13C3-PFOA	12.88332E	0.00820	103.1	3.105E4	3.366	4.21	10	15			1.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
11	13C3-PFOA	12.58846E	0.0104	100.7	9.374E3	0.909	4.85	11	16			1.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
12	13C3-PFOA	12.42563E	0.0120	99.4	9.154E3	1.304	4.63	12	17			1.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
13	13C3-PFB	12.58000E	0.0100	100.0	2.527E4	1.000	3.20	13	17			0.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
14	13C3-PFB	12.50000E	0.00175	100.0	1.805E4	1.000	3.92	14	14			0.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
15	13C3-PFOA	12.50000E	0.00684	100.0	6.981E3	1.000	4.21	15	15			0.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
16	13C3-PFOA	12.50000E	0.04332	100.0	1.025E4	1.000	4.54	16	16			0.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
17	13C3-PFOA	12.50000E	0.00288	100.0	7.968E3	1.000	4.82	17	17			0.000	13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
18	Total PFB	4.752048E	0.00127					18					13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
19	Total PFB	6.143883E						19					13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
20	Total PFOA	4.836045E						20					13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO
21	Total PFOA	6.759021E	0.0564					21					13-Apr-17	10:32:30		ST170413G1	PFC CS2 17D1305	1.0	1.00		NO



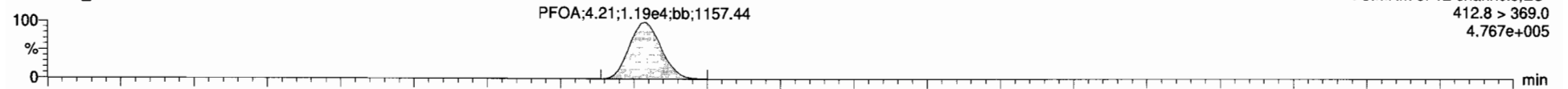
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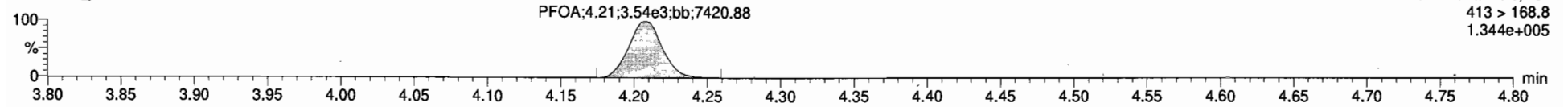
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**Total PFOA**

170413G1\_6

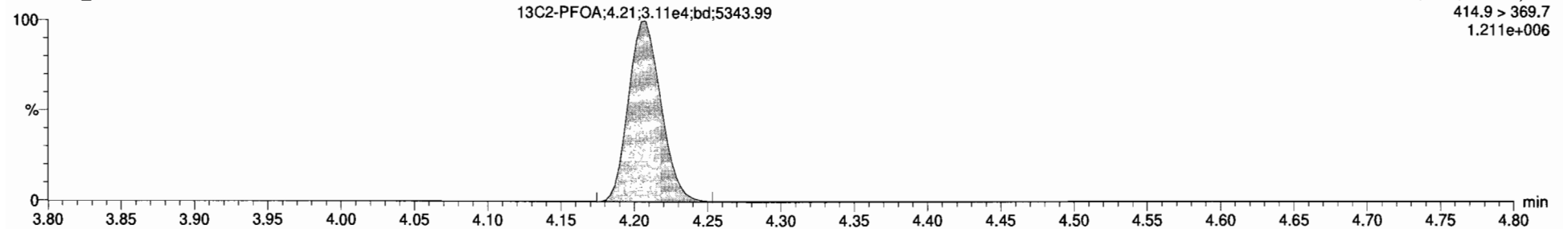


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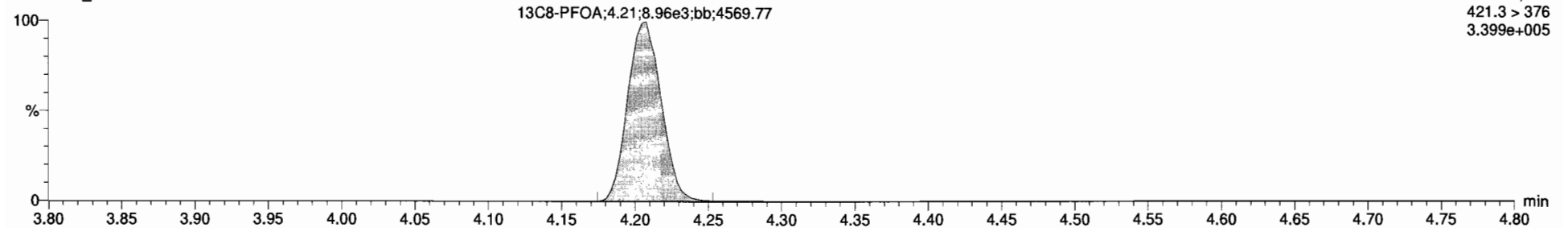
**13C2-PFOA**

170413G1\_6



**13C8-PFOA**

170413G1\_6



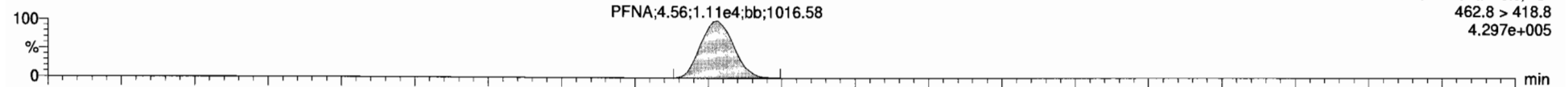
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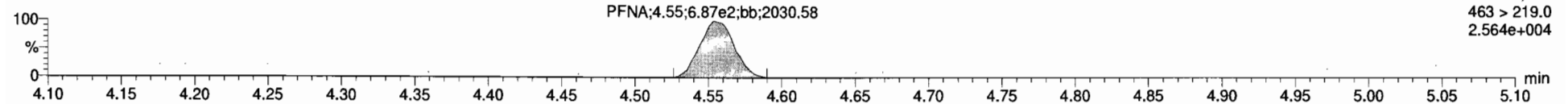
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**PFNA**

170413G1\_6

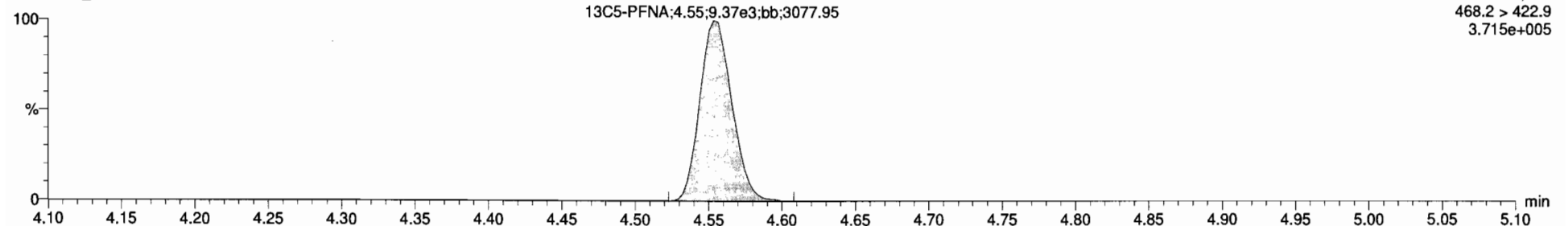


170413G1\_6



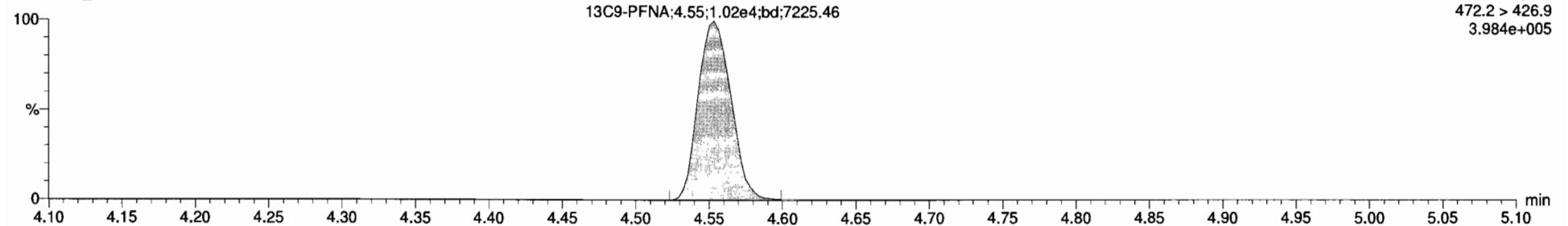
**13C5-PFNA**

170413G1\_6



**13C9-PFNA**

170413G1\_6



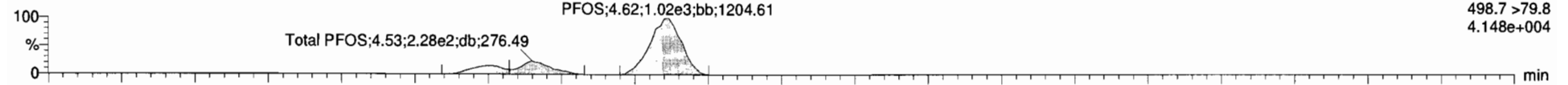
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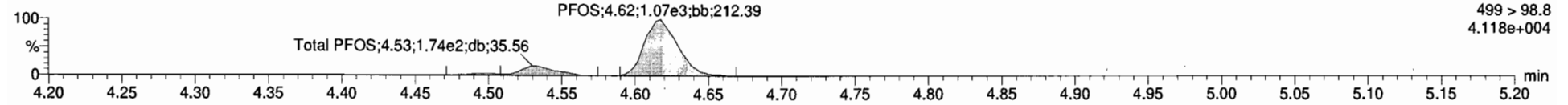
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**Total PFOS**

170413G1\_6

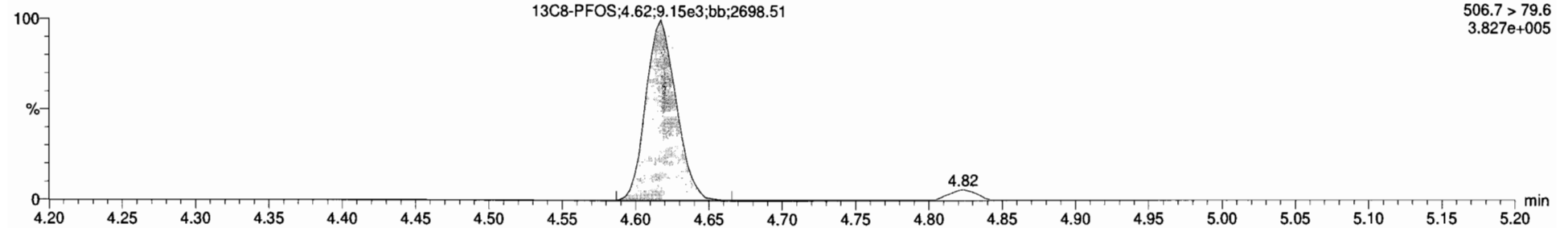


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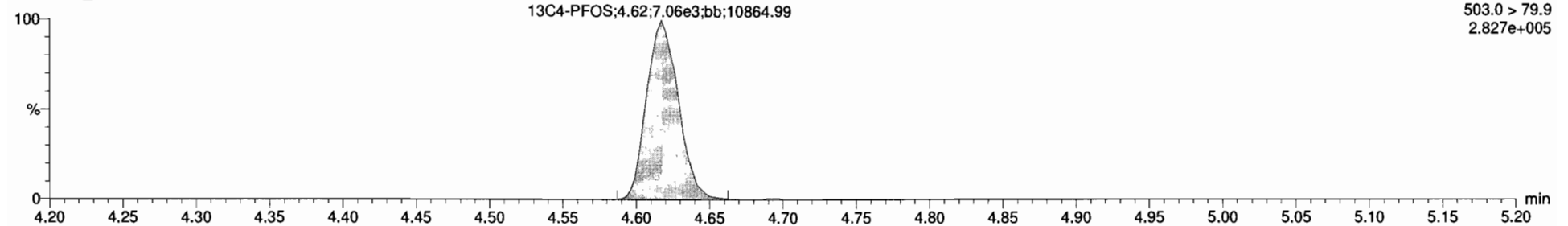
**13C8-PFOS**

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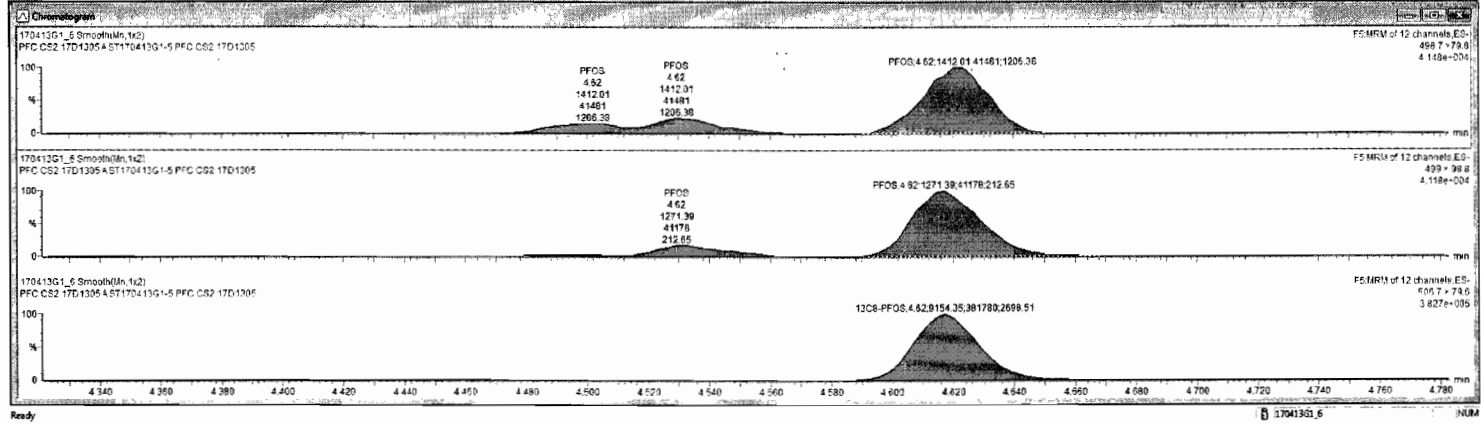


**13C4-PFOS**

170413G1\_6



170413G1_6 - ST170413G1-5 PFC CS2 17D1305 - PFC CS2 17D1305-A																						
ID	Name	Conc	DL	%Rec	EMPC	Abn Resp	QOP	RT	#	HR	SA	YN	QST	Acq Date	Acq Time	1 <sup>st</sup> Chk/Ret	ID	Sample Trng	Factor1	SW	Cal F#	%MOL
1	PFBS	4.7536498	0.00097	95.1	5.82963		2.91	7	0.201	YES	1.001	13-Apr-17	10:32:30	18:515	ST170413G	PFC CS2 17D13	1.0	1.00				NO
2	PFHpA	4.800843		96.0	1.07364		3.05	2			1.002	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
3	PFnS	5.2485236		103.9	8.92963		3.50	3			1.003	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				YES
4	PFDA	4.8368485		96.7	1.18764		4.21	4			1.004	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				YES
5	PFNA	4.7810224		95.2	1.10964		4.56	5			1.005	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				YES
6	PFOS	3.2264962	0.0094	104.9	1.91263		4.62	6			1.006	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				YES
7	13C4-PFBS	12.856220	0.0101	101.0	7.4863	0.45	2.91	7	14		0.007	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
8	13C4-PFHpA	13.038990	0.00125	104.3	1.43564	0.827	3.78	8	14		0.008	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
9	13C4-PFnS	12.070624	0.00792	96.9	6.01363	0.440	3.92	9	14		1.000	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
10	13C4-PFDA	12.683328	0.00620	103.1	3.10864	3.356	4.21	10	15		1.001	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
11	13C4-PFNA	12.589485	0.0104	102.7	9.37463	0.995	4.55	11	16		1.005	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
12	13C4-PFOS	12.425538	0.0120	99.4	9.15463	1.354	4.92	12	17		1.001	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
13	13C6-PFNA	12.500090	0.0100	100.0	2.52764	1.500	3.28	13			2.000	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
14	13C4-PFnS	12.500090	0.00175	100.0	1.80564	3.090	3.80	14	14		2.000	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
15	13C4-PFDA	12.500090	0.00504	100.0	8.95162	1.190	4.21	15	15		0.000	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
16	13C4-PFNA	12.500090	0.00432	100.0	1.82564	1.500	4.88	16	16		0.000	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
17	13C4-PFOS	12.500090	0.00288	100.0	7.06063	1.100	4.92	17	17		0.000	13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
18	Total PFBS	4.7536498	0.00127					18				13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
19	Total PFHpA	6.143832						19				13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
20	Total PFnS	4.8368485						20				13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO
21	Total PFDA	6.7590213	0.0084					21				13-Apr-17	10:32:30		ST170413G	PFC CS2 17D13	1.0	1.00				NO

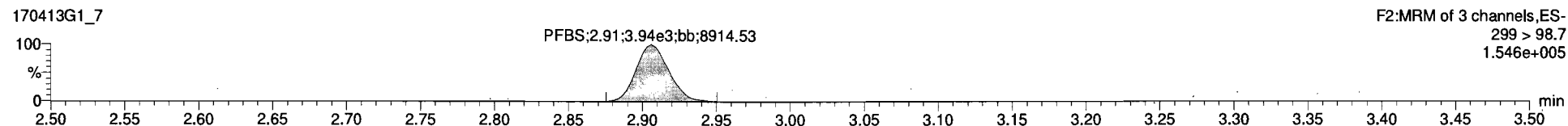
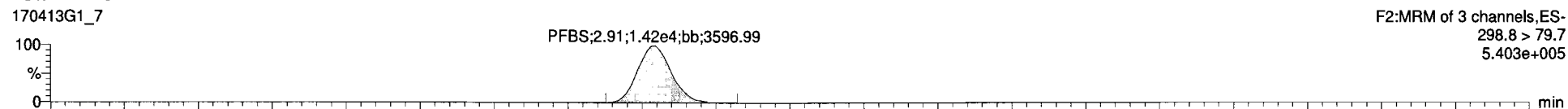


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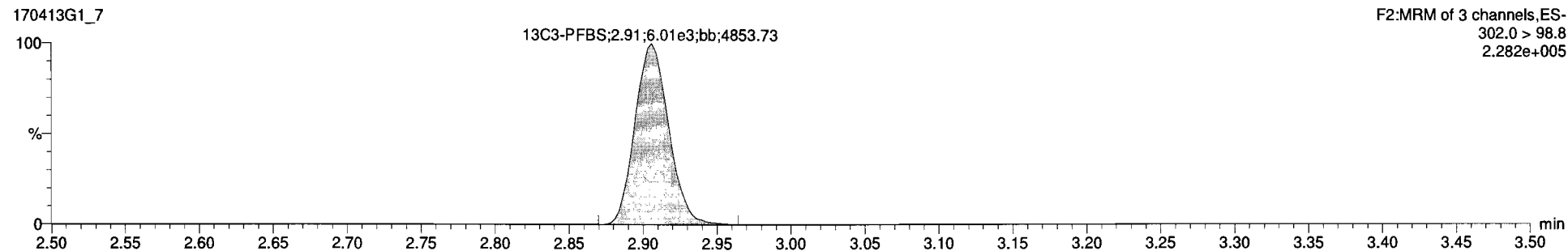
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

ID: ST170413G1-6 PFC CS3 17D1306, Description: PFC CS3 17D1306 A, Name: 170413G1\_7, Date: 13-Apr-2017, Time: 10:45:07, Instrument: , Lab: , User:

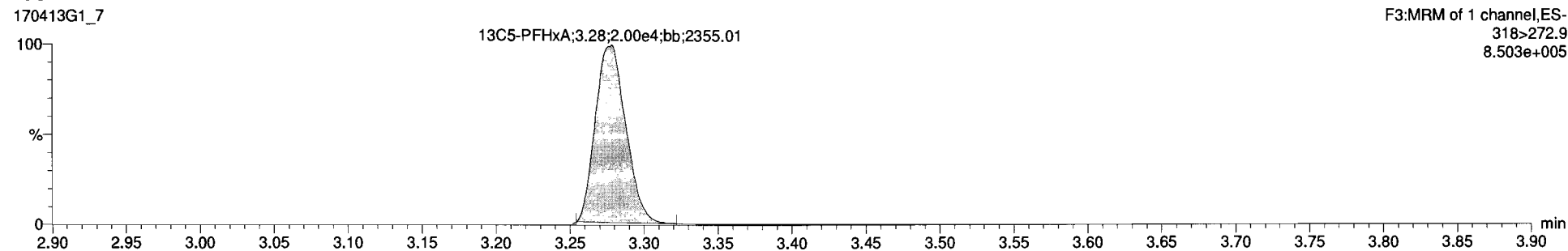
**Total PFBS**



**13C3-PFBS**



**13C5-PFHxA**



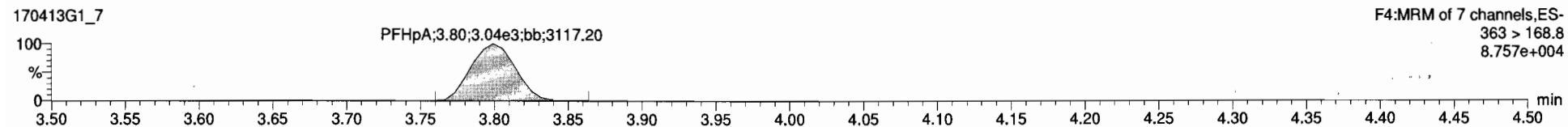
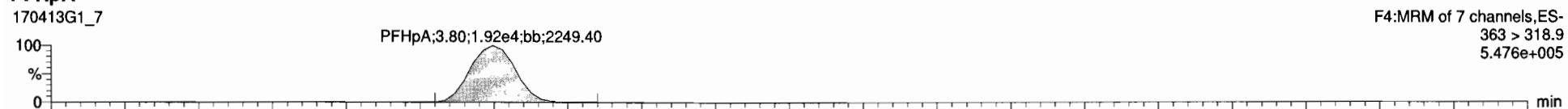
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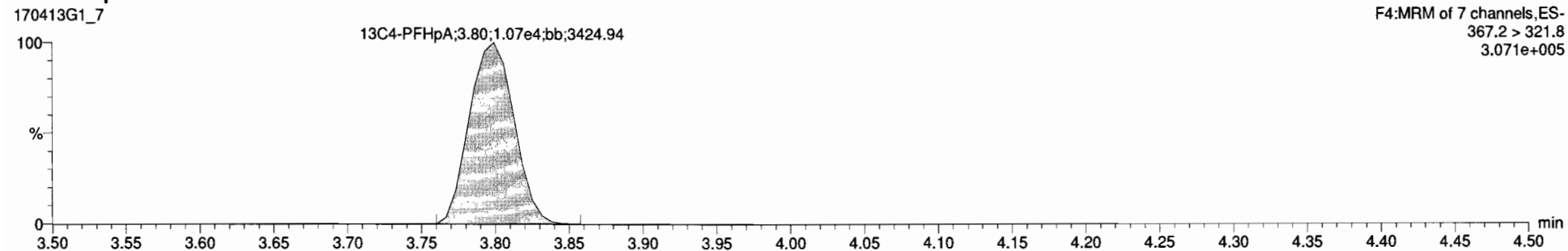
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ID: ST170413G1-6 PFC CS3 17D1306, Description: PFC CS3 17D1306 A, Name: 170413G1\_7, Date: 13-Apr-2017, Time: 10:45:07, Instrument: , Lab: , User:

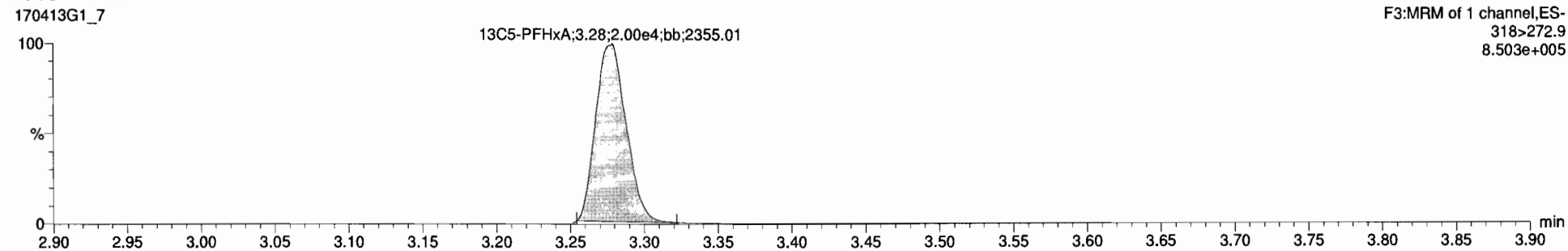
**PFHpA**



**13C4-PFHpA**

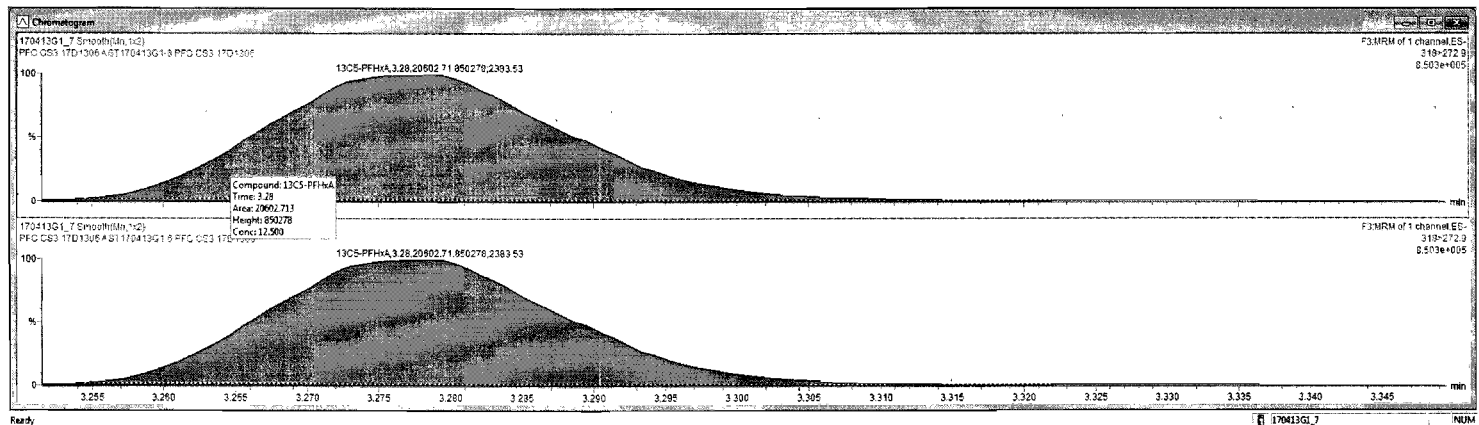


**13C5-PFHxA**





SL	Name	Conc	DL	%Rec	EMPC	Abn. Resp.	RRP	RT	#	ISL	RA	TV/RT	ORFI	Acq Date	Acq Time	#1	Chk/Issue	Sample Text	Factor1	SWC	Calc/Hz	IND
1	PFBS	18.442127	0.00726	104.4		1.416e4		2.91	7	0.279	YES	1.001		13-Apr-17	10:45:07	17	328	ST170413G... PFC CS3 17D13...	1.0	1.00		YES
2	PFHpA	11.530730		115.3		1.916e4		3.89	2	0		1.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		YES
3	PFHxS	11.874202		110.7		1.158e4		2.72	3	0		1.002		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		YES
4	PFDA	18.871265		100.7		2.028e4		4.21	4	0		1.001		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		YES
5	PFNA	11.442117		114.4		2.143e4		4.58	5	0		1.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		YES
6	PFOS	10.034567	0.167	100.9		2.814e3		4.62	6	12		1.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		YES
7	13C3-PFBS	12.733530	0.00885	101.9		8.028e3	0.453	2.91	7	14		0.888		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
8	13C4-PFHpA	12.011982	0.00891	96.1		1.073e4	0.657	3.89	2	14		0.995		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
9	13C2-PFHxS	12.652200	0.00554	96.4		5.523e3	0.440	2.72	3	14		0.996		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
10	13C2-PFDA	13.072824	0.07584	104.8		2.307e4	3.368	4.21	10	15		1.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
11	13C5-PFNA	11.777968	0.00482	84.2		7.601e3	0.909	4.58	11	16		1.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
12	13C6-PFOS	12.057034	0.00615	96.7		9.768e3	1.304	4.62	12	17		0.999		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
13	13C6-PFHpA	12.500000	0.01937	100.0		2.060e4	1.000	3.28	13	13		0.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
14	13C3-PFHxS	12.500000	0.00811	100.0		1.333e4	1.000	3.92	14	14		0.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
15	13C6-PFDA	12.500000	0.00687	100.0		8.752e3	1.000	4.21	15	15		0.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
16	13C5-PFNA	12.500000	0.00707	100.0		8.600e3	1.000	4.58	16	16		0.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.00914	100.0		7.425e3	1.000	4.62	17	17		0.000		13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
18	Total PFBS	18.442127	0.0107					18						13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
19	Total PFHxS	13.161820						19						13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
20	Total PFDA	18.871265						20						13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO
21	Total PFOS	11.561484	0.167					21						13-Apr-17	10:45:07			ST170413G... PFC CS3 17D13...	1.0	1.00		NO





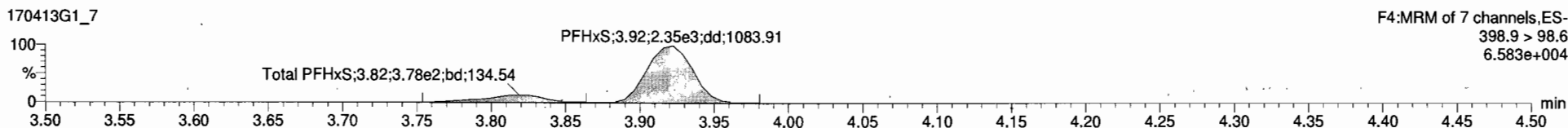
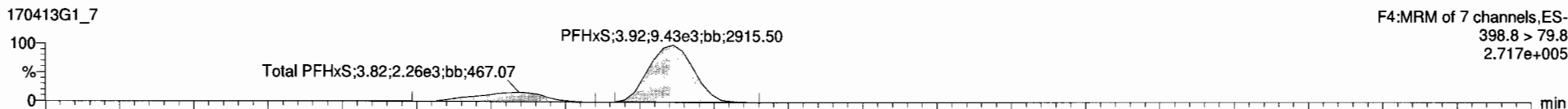
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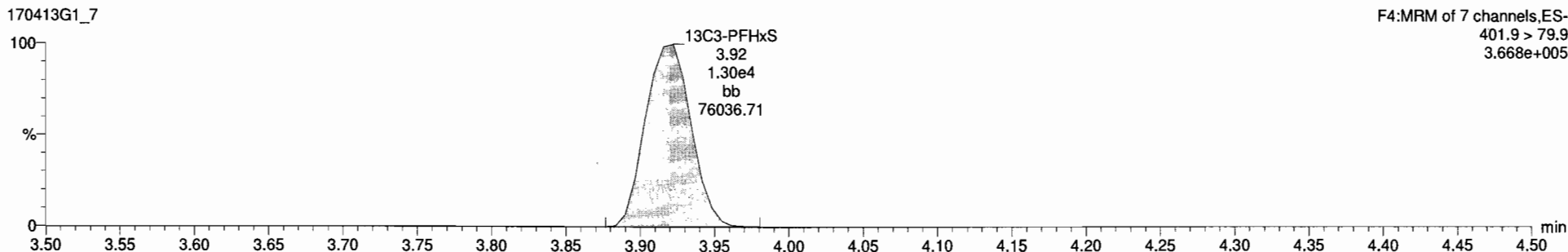
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ID: ST170413G1-6 PFC CS3 17D1306, Description: PFC CS3 17D1306 A, Name: 170413G1\_7, Date: 13-Apr-2017, Time: 10:45:07, Instrument: , Lab: , User:

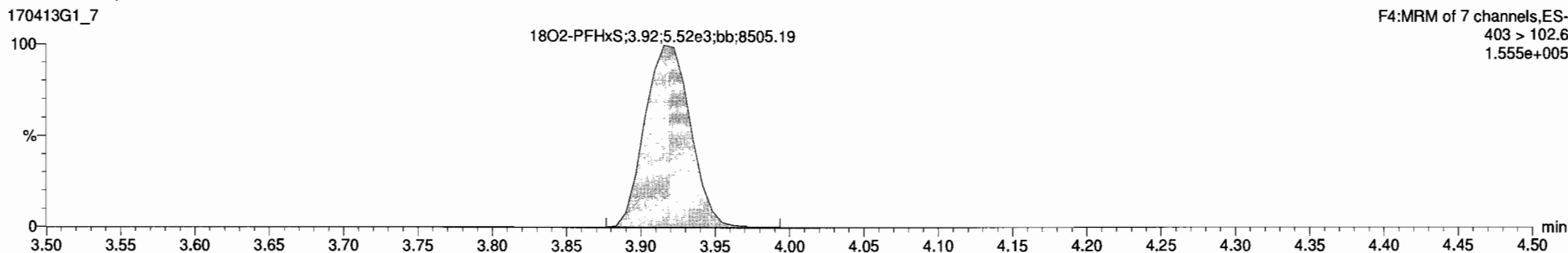
**Total PFHxS**



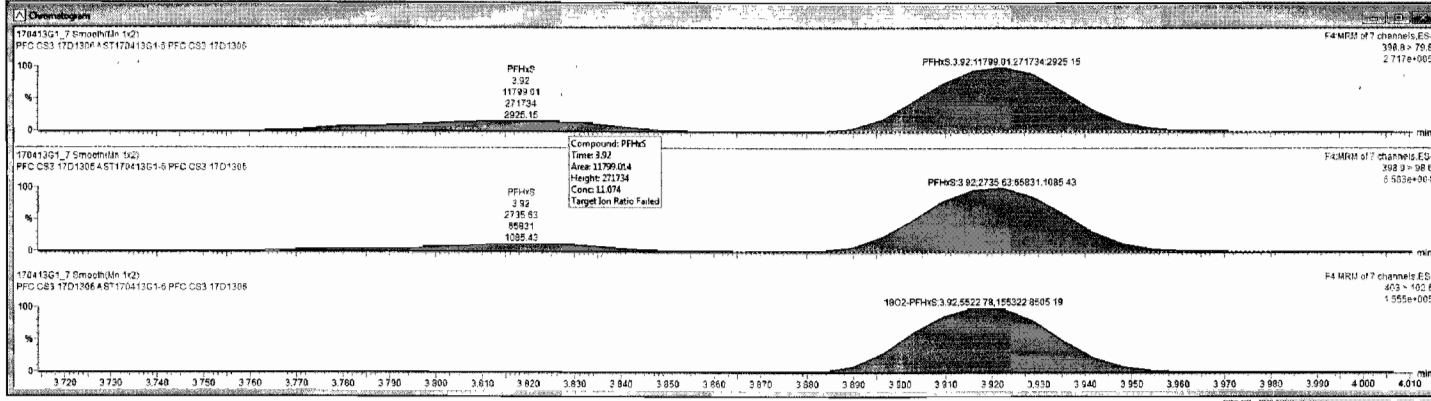
**13C3-PFHxS**



**18O2-PFHxS**



Item	Name	Cont	DL	%Rec	EMPC	Alta Resp	SPF	RT	#	SD	SA	Y/N	2007	Acq Date	Acq Time	1 <sup>st</sup> Chr Name	D	Sample Text	Factor 1	SYN	Cal File	MID
1	PFBS	10.442127	0.96726	104.4		1.416e4		2.91	1	7	0.276	YES	1.001	13-Apr-17	10:45:07	17.220	ST170413G	PFC CS3 17D1306	1.0	1.00		YES
2	PFHpA	11.530736		115.3		1.916e4		3.80	2	0			1.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		YES
3	PFHxS	11.874202		118.7		1.180e4		3.92	3	9			1.002	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		YES
4	PFDA	10.871285		108.7		2.029e4		4.21	4	10			1.001	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		YES
5	PFNA	11.427117		114.4		2.143e4		4.88	5	17			1.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		YES
6	PFOS	10.094537	0.107	100.9		2.814e3		4.52	6	12			1.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		YES
7	13CS-PFBS	12.733530	0.06685	101.9		6.009e3	0.493	2.91	7	14			0.896	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
8	13CS-PFHpA	12.011022	0.00881	99.1		1.072e4	0.857	3.80	8	14			0.969	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
9	13CS-PFHxS	12.052200	0.00354	99.4		5.523e3	0.440	3.92	9	14			0.998	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
10	13CS-PFDA	13.072024	0.00064	104.6		2.387e4	3.366	4.21	10	15			1.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
11	13CS-PFNA	11.777968	0.00402	94.2		7.607e3	0.900	4.88	11	18			1.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
12	13CS-PFOS	12.087034	0.00615	99.7		9.366e3	1.304	4.52	12	17			0.900	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
13	13CS-PFHpA	12.500000	0.0131	100.0		2.060e4	1.000	3.28	13	13			0.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
14	13CS-PFHxS	12.500000	0.00041	100.0		1.303e4	1.000	3.92	14	14			0.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
15	13CS-PFDA	12.500000	0.00067	100.0		6.702e3	1.000	4.21	15	15			0.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
16	13CS-PFNA	12.500000	0.00070	100.0		8.880e3	1.000	4.88	16	16			0.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
17	13CS-PFOS	12.500000	0.00314	100.0		7.425e3	1.000	4.52	17	17			0.000	13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
18	Total PFBS	10.442127	0.0107					18						13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
19	Total PFHpA	11.530736						19						13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
20	Total PFDA	10.871285						20						13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO
21	Total PFOS	11.561484	0.107					21						13-Apr-17	10:45:07		ST170413G	PFC CS3 17D1306	1.0	1.00		NO



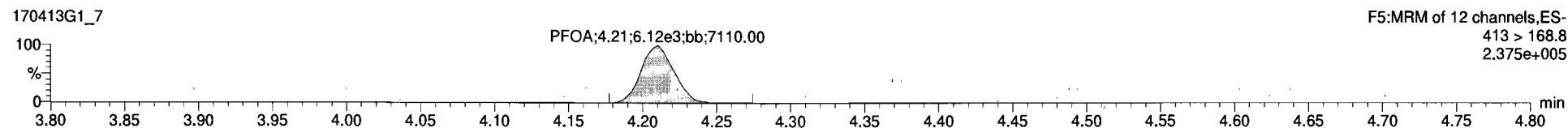
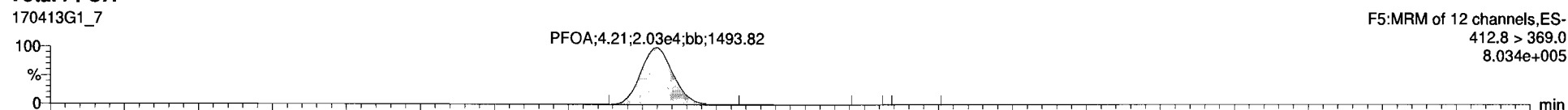
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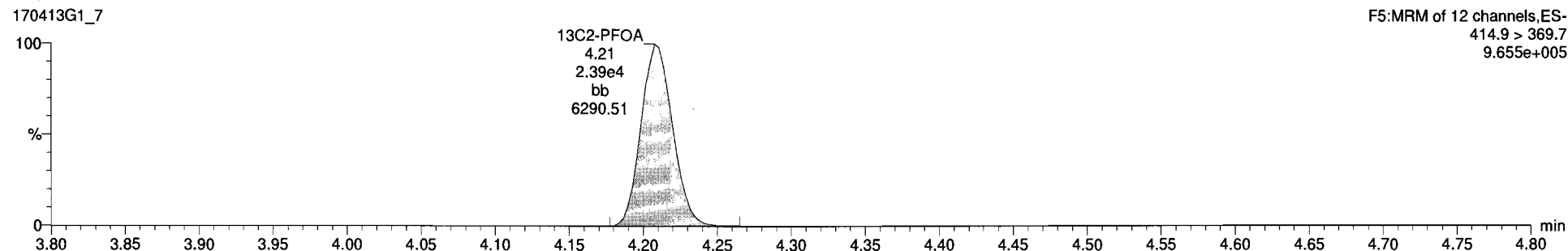
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ID: ST170413G1-6 PFC CS3 17D1306, Description: PFC CS3 17D1306 A, Name: 170413G1\_7, Date: 13-Apr-2017, Time: 10:45:07, Instrument: , Lab: , User:

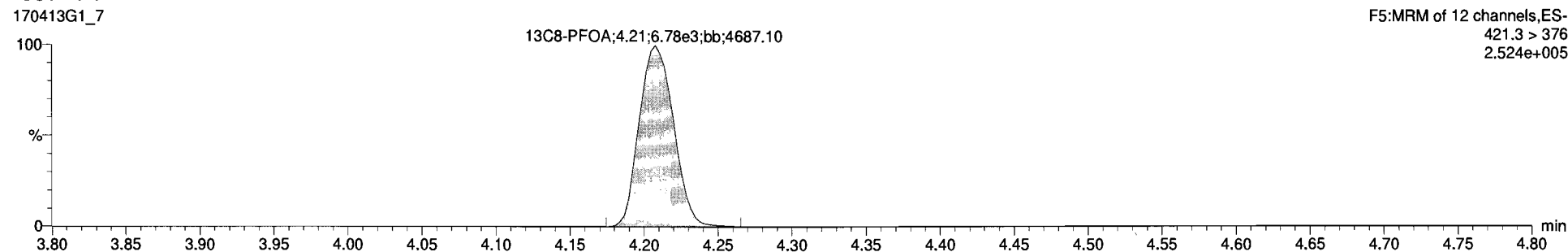
**Total PFOA**



**13C2-PFOA**



**13C8-PFOA**



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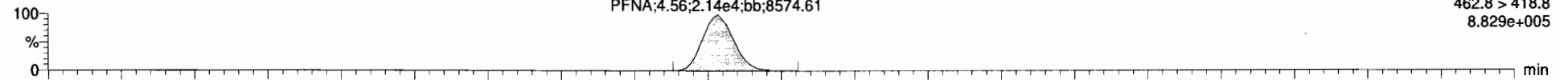
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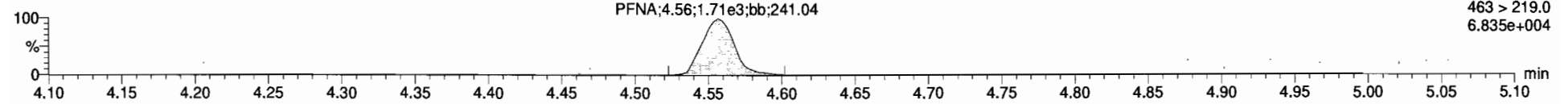
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**PFNA**

170413G1\_7

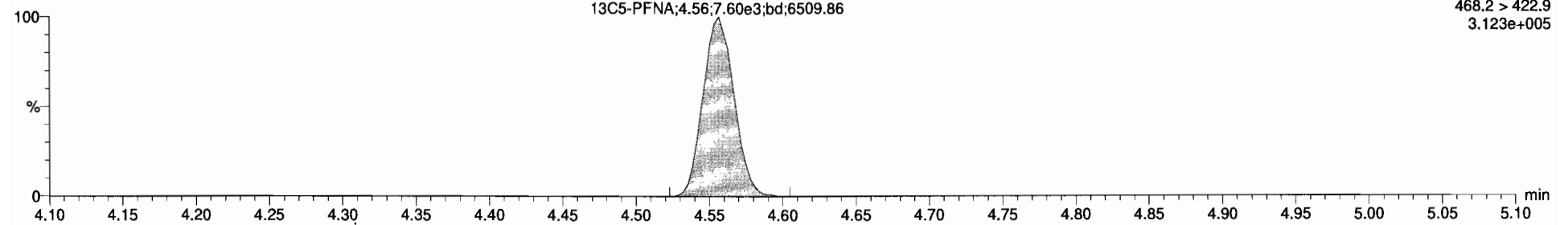


170413G1\_7



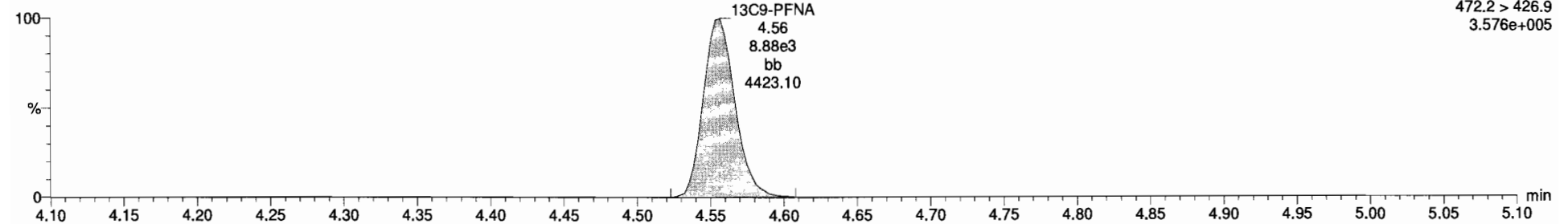
**13C5-PFNA**

170413G1\_7



**13C9-PFNA**

170413G1\_7



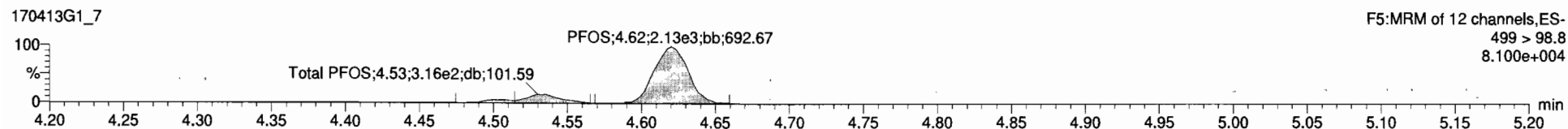
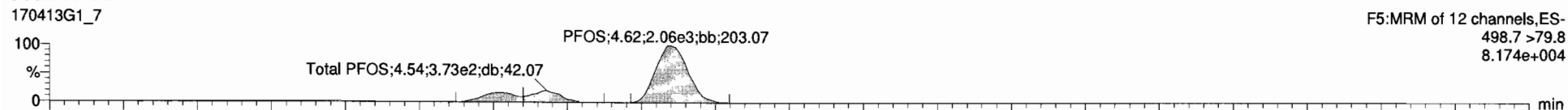
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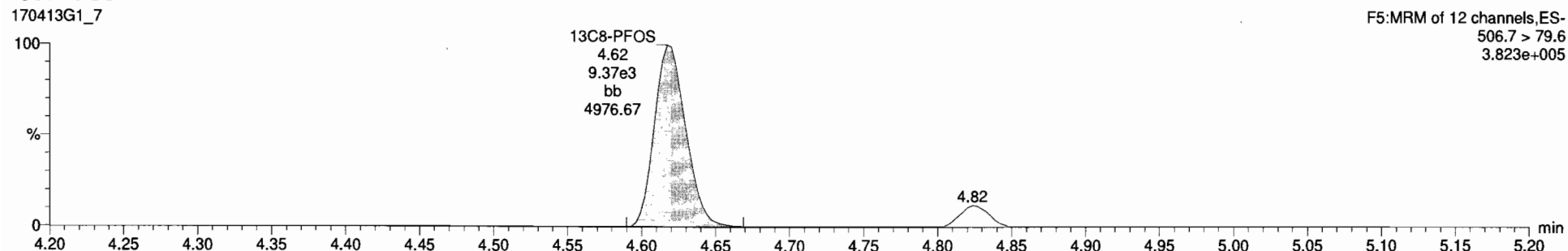
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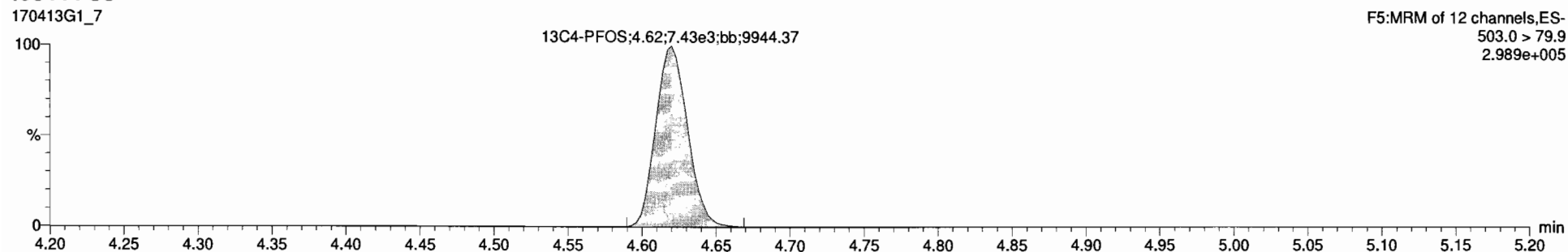
**Total PFOS**



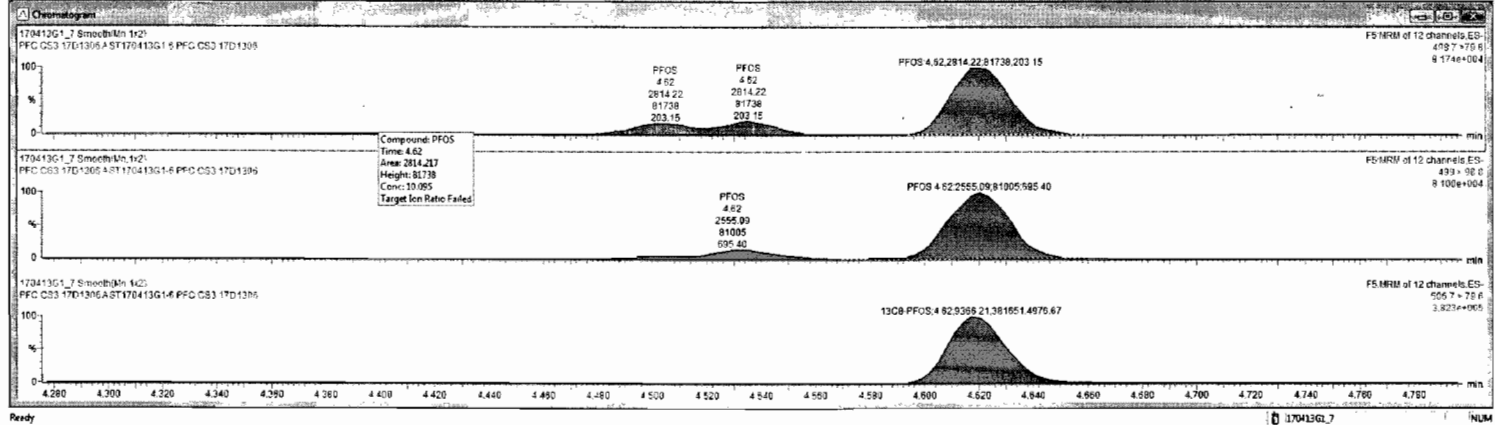
**13C8-PFOS**



**13C4-PFOS**



Sl	Name	Conc	DL	NRec	EMPC	Ass Resp	RRP	RT	IS	SA	VN	RET	Acq Date	Acq Time	1 <sup>st</sup> Channel	Sample Test	Feedbr	Shi	CA/PA	Y/N
1	PFBS	10.442127	0.00726	104.4		1.41644		2.911	7	0.279	YES	1.001	13-Apr-17	16:45:07	17.326	ST170413G1_PFC CS3 17D1306	1.0	1.00		YES
2	PFHpA	11.530736	115.3			1.91844		3.02	8			1.006	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		YES
3	PFHxS	11.074232	110.7			1.18084		3.92	9			1.002	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		YES
4	PFOA	19.871285	106.7			2.02944		4.21	10			1.001	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		YES
5	PFNA	11.442117	114.4			2.14344		4.99	11			1.006	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		YES
6	PFOS	10.094607	0.167	100.0		2.21400		4.02	12			1.004	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		YES
7	13C1-PFBS	12.733630	0.00385	101.9		4.05843	0.453	2.911	7	14		0.888	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
8	13C1-PFOA	12.011052	0.00391	96.1		1.07344	0.457	3.92	9	14		0.989	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
9	13C2-PFHpA	12.052200	0.00354	96.4		5.52343	0.444	3.92	9	14		0.940	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
10	13C2-PFOA	13.072624	0.00564	104.6		2.39744	3.366	4.21	10	16		1.006	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
11	13C3-PFNA	11.777996	0.00462	94.2		7.50143	9.939	4.56	11	16		1.006	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
12	13C3-PFOS	12.067934	0.00116	96.7		9.30943	1.394	4.02	12	17		0.999	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
13	13C3-PFHpA	12.500690	0.0131	100.0		2.96044	1.190	3.29	13	13		0.830	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
14	13C3-PFHxS	12.500690	0.009411	100.0		1.30344	1.090	3.92	14	14		0.006	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
15	13C4-PFOA	12.500690	0.00647	100.0		6.70243	1.090	4.21	15	15		0.008	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
16	13C4-PFNA	12.500690	0.00707	100.0		8.80943	1.190	4.56	16	16		0.006	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
17	13C4-PFOS	12.500690	0.00314	100.0		7.42543	1.090	4.02	17	17		0.006	13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
18	Total PFBS	10.442127	0.0107						18				13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
19	Total PFHpA	11.531532							19				13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
20	Total PFOA	10.871285							20				13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO
21	Total PFOS	11.561454	0.167						21				13-Apr-17	16:45:07		ST170413G1_PFC CS3 17D1306	1.0	1.00		NO



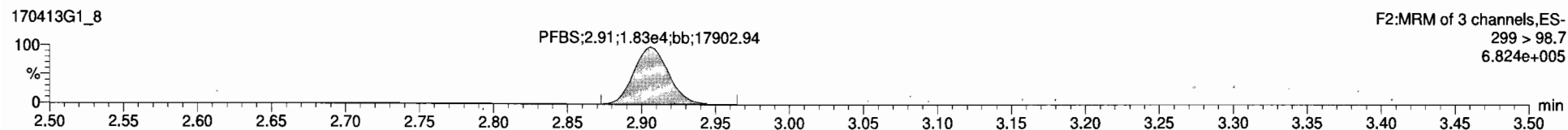
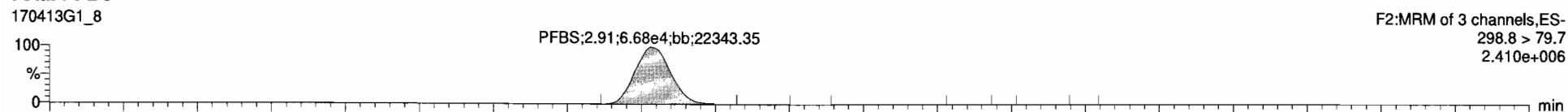
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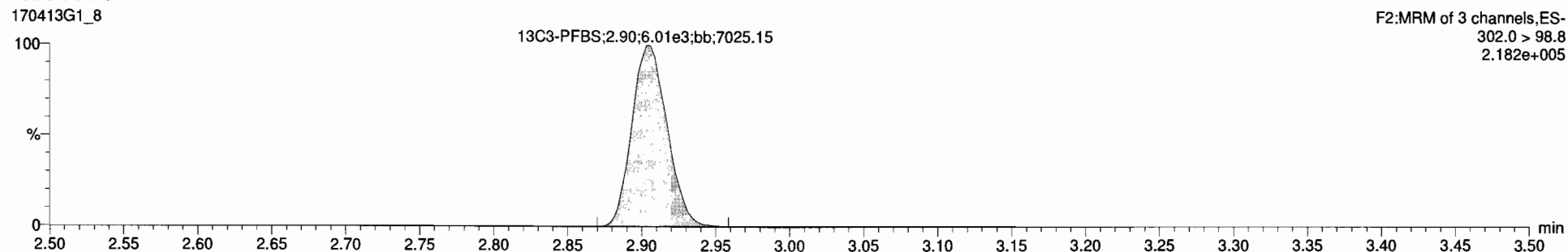
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ID: ST170413G1-7 PFC CS4 17D1307, Description: PFC CS4 17D1307 A, Name: 170413G1\_8, Date: 13-Apr-2017, Time: 10:57:43, Instrument: , Lab: , User:

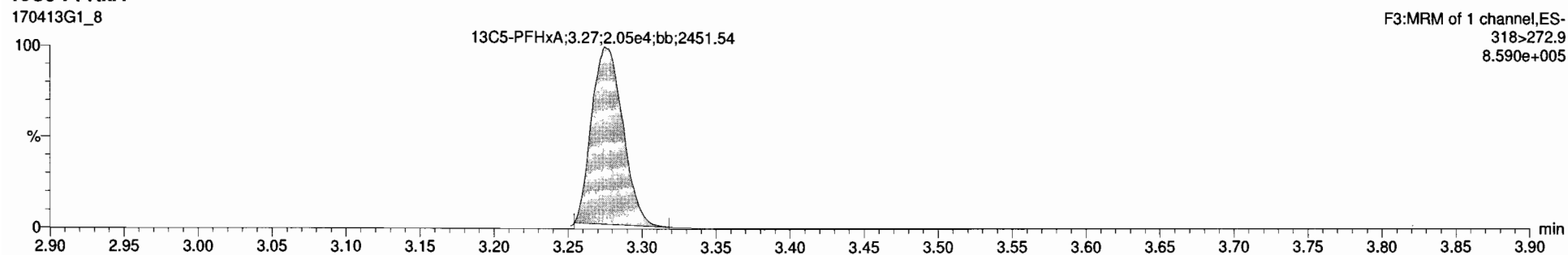
**Total PFBS**



**13C3-PFBS**



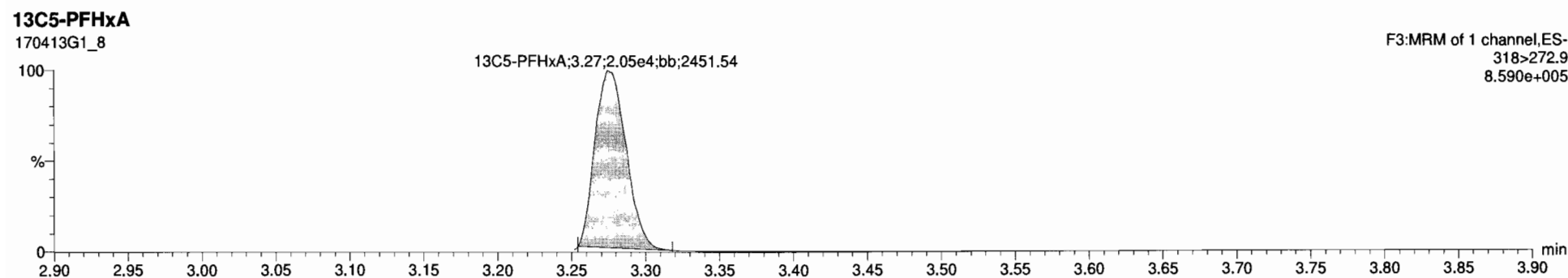
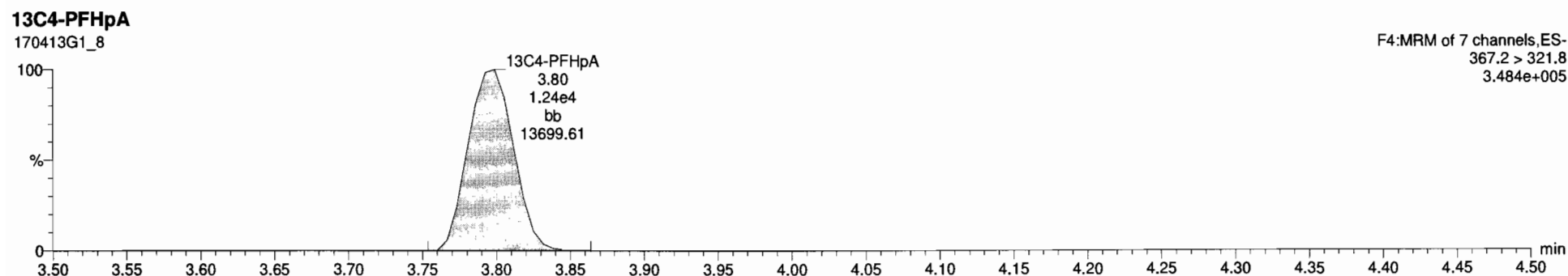
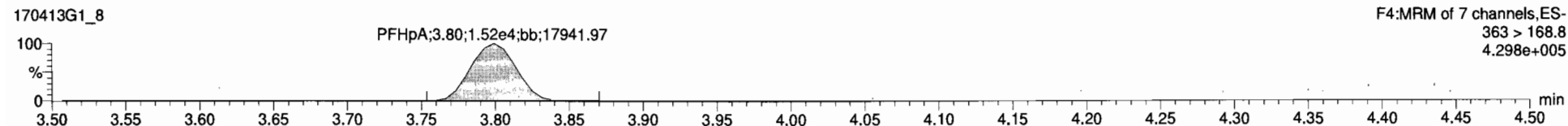
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ID: ST170413G1-7 PFC CS4 17D1307, Description: PFC CS4 17D1307 A, Name: 170413G1\_8, Date: 13-Apr-2017, Time: 10:57:43, Instrument: , Lab: , User:

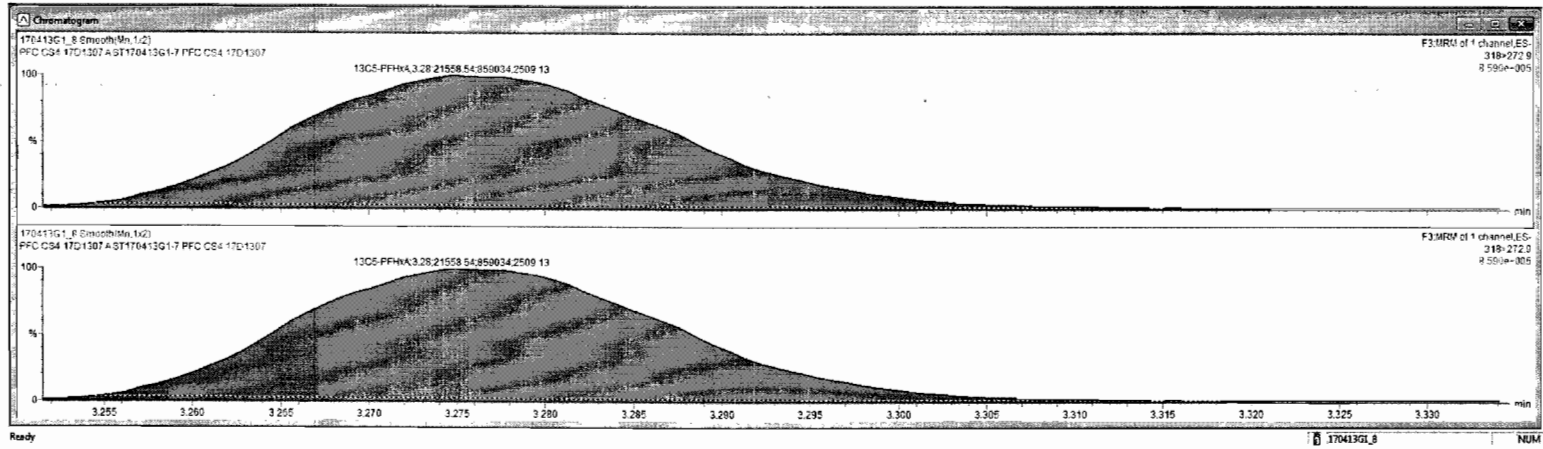




TargetLynx v170413G1.8  
 File Edit View Display Processing Window Help  
 [Icons for file operations and display settings]

170413G1.8 - ST170413G1.7 PFC CS4 17D1307 - PFC CS4 17D1307.A

Name	Comp	DL	%Rec	FWPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq Date	Acq Time	Ch	Chr Name	D	Sample Text	Factor1	SWI	Cal File	>MCL
1	PFBS	48.243373	0.00545	96.5	6.67744	2.51	1	7	0.274	YES	1.001	13-Apr-17	10:57:43	38	058	ST170413G	PFC CS4 17D13	1.0	1.00		YES	
2	PFHxA	48.362851		96.7	9.22694	3.00	2				1.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		YES	
3	PFHxS	52.042602		104.1	6.21464	3.92	3	9			1.002	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		YES	
4	PFOA	50.723997		101.4	1.97045	4.21	4	10			1.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		YES	
5	PFNA	52.656421		105.3	1.18345	4.56	5	11			1.001	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		YES	
6	PFOS	51.431119	0.0996	102.9	1.42844	4.62	6	12			1.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		YES	
7	13C3-PFBS	11.752625	0.00546	94.3	6.09847	0.453	2.90	7	14		0.007	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
8	13C3-PFHxA	12.809236	0.00233	102.5	1.23664	0.857	3.00	8	14		0.070	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
9	13C3-PFHxS	12.541402	0.00468	100.3	6.20747	0.440	3.52	9	14		1.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
10	13C3-PFOA	11.769922	0.00286	94.3	2.71544	3.358	4.21	10	15		1.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
11	13C3-PFNA	13.083288	0.0136	104.7	9.00043	0.969	4.56	11	16		1.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
12	13C3-PFOS	12.389251	0.0273	99.1	8.28743	1.384	4.62	12	17		1.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
13	13C3-PFHxA	12.550300	0.0125	100.0	2.15644	1.000	3.28	13	13		0.006	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
14	13C3-PFHxS	12.550300	0.00206	100.0	1.49744	1.000	3.52	14	14		0.009	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
15	13C3-PFOA	12.550300	0.0405	100.0	0.25943	1.000	4.21	15	15		0.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
16	13C3-PFNA	12.550300	0.0209	100.0	9.48443	1.000	4.56	16	16		0.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
17	13C3-PFOS	12.550300	0.0376	100.0	7.19643	1.000	4.62	17	17		0.000	13-Apr-17	10:57:43			ST170413G	PFC CS4 17D13	1.0	1.00		NO	
18	Total PFBS	48.281337	0.00675										13-Apr-17	10:57:43		ST170413G	PFC CS4 17D13	1.0	1.00		NO	
19	Total PFHxS	52.073363											13-Apr-17	10:57:43		ST170413G	PFC CS4 17D13	1.0	1.00		NO	
20	Total PFOA	50.723997											13-Apr-17	10:57:43		ST170413G	PFC CS4 17D13	1.0	1.00		NO	
21	Total PFOS	58.518586	0.0954										13-Apr-17	10:57:43		ST170413G	PFC CS4 17D13	1.0	1.00		NO	



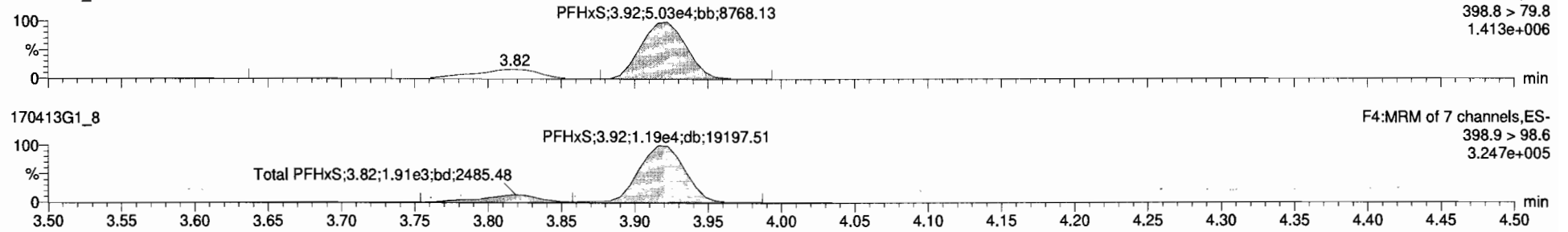
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

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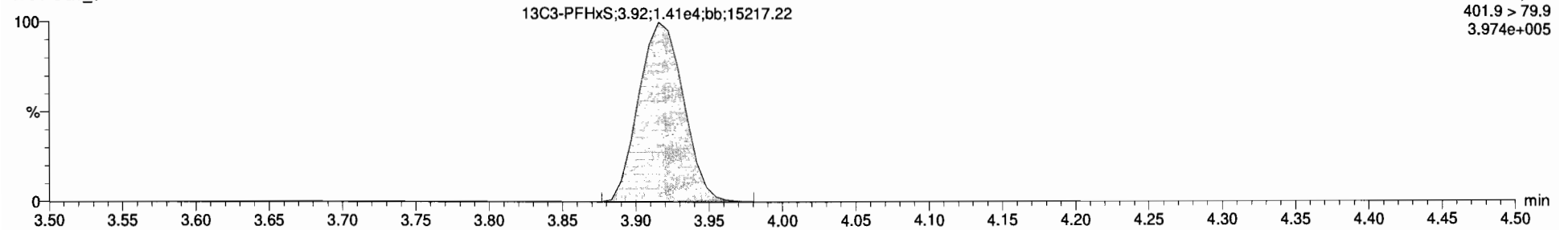
**Total PFHxS**

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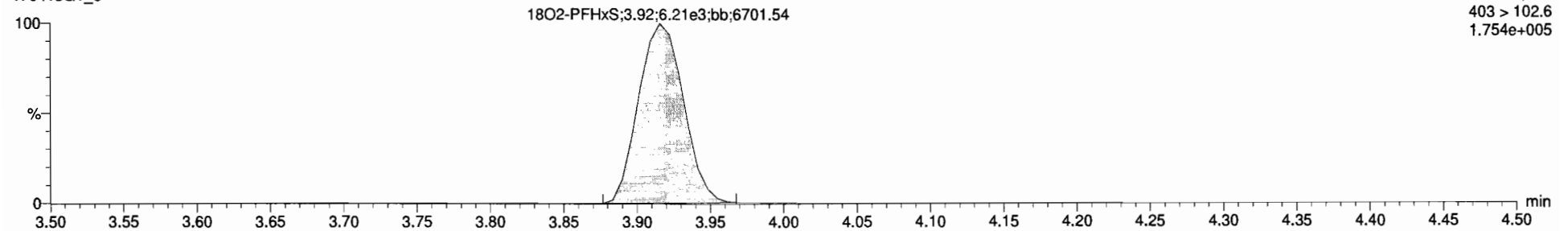
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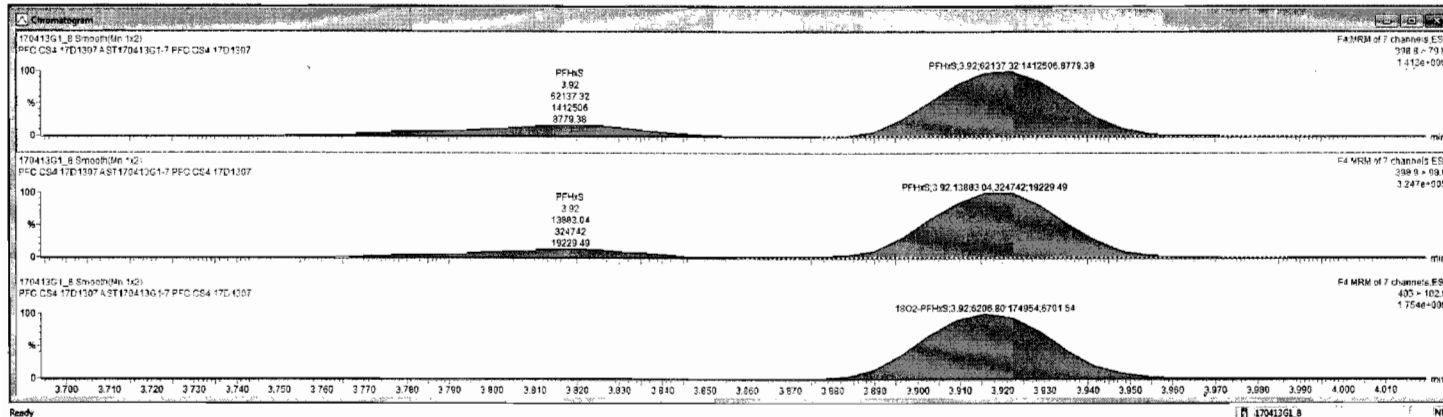


**18O2-PFHxS**

170413G1\_8



Name	Conc	DL	Units	EWPC	Abn Resp	RRF	RT	#	SM	RA	YN	RRT	Acq Date	Acq Time	Chr No	ID	Sample No	Facility	SW	Cell No	MDL
1	PFBS	48.24333	0.00545	92.5	6.87E4	2.81	7	0.274	YES	1.00	13-Apr-17	10:57:43	28	58	571704130	PFIC CS4 17D1307	1.0	1.00		YES	
2	PFNA	48.26251	96.7		9.226E4	3.86	8			1.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		YES	
3	PFHxS	50.94080	104.1		6.214E4	3.92	3			1.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		YES	
4	PFDA	58.72397	101.4		1.070E5	4.21	4			1.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		YES	
5	PFNA	52.456421	105.3		1.163E5	4.56	5			1.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		YES	
6	PFOS	51.43119	0.6950	102.8	1.428E4	4.62	6			1.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		YES	
7	13C1-PFBS	11.792025	0.00545	94.3	6.899E3	0.453	2.90	14		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO	
8	13C1-PFNA	12.609836	0.00233	102.5	1.236E4	0.287	3.38	14		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO	
9	10C2-PFHS	12.841402	0.00482	100.3	6.287E3	0.440	3.92	9	14		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
10	13C2-PFDA	11.786022	0.00368	94.3	2.715E4	3.366	4.21	10	15		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
11	13C1-PFNA	13.063298	0.0139	104.7	9.009E3	0.909	4.55	11	16		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
12	13C1-PFOS	12.389251	0.0273	99.1	9.287E3	1.354	4.82	12	17		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
13	13C1-PFNA	12.500600	0.0125	100.0	2.102E4	1.000	3.28	13	12		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
14	13C1-PFHS	12.600600	0.00205	100.0	1.407E4	1.000	3.92	14	14		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
15	13C1-PFDA	12.600600	0.0455	100.0	8.556E3	1.000	4.21	15	15		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
16	13C1-PFNA	12.500600	0.00389	100.0	9.484E3	1.000	4.55	16	16		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
17	13C1-PFOS	12.500600	0.0379	100.0	7.166E3	1.000	4.62	17	17		0.00	13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
18	Total PFBS	49.305137	0.00979				16					13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
19	Total PFNA	52.057903					19					13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
20	Total PFDA	58.723997					20					13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO
21	Total PFOS	58.518996	0.6950				21					13-Apr-17	10:57:43			571704130	PFIC CS4 17D1307	1.0	1.00		NO

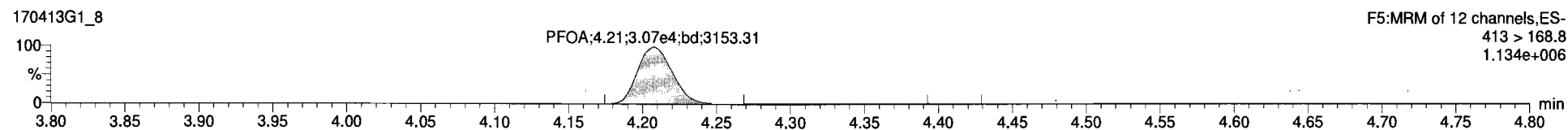
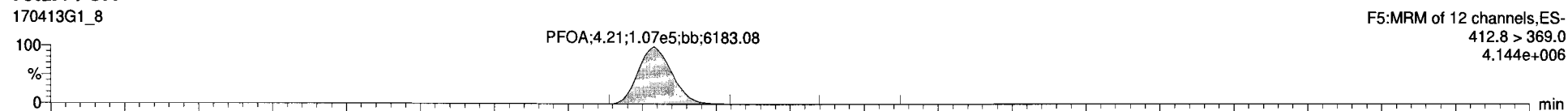


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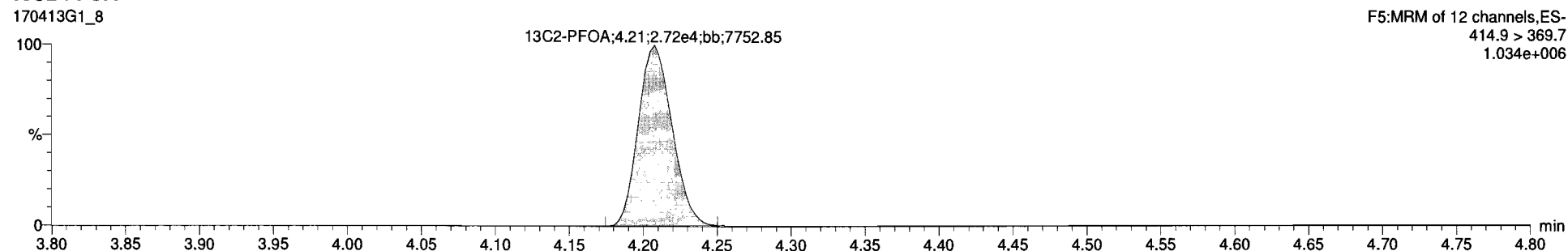
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

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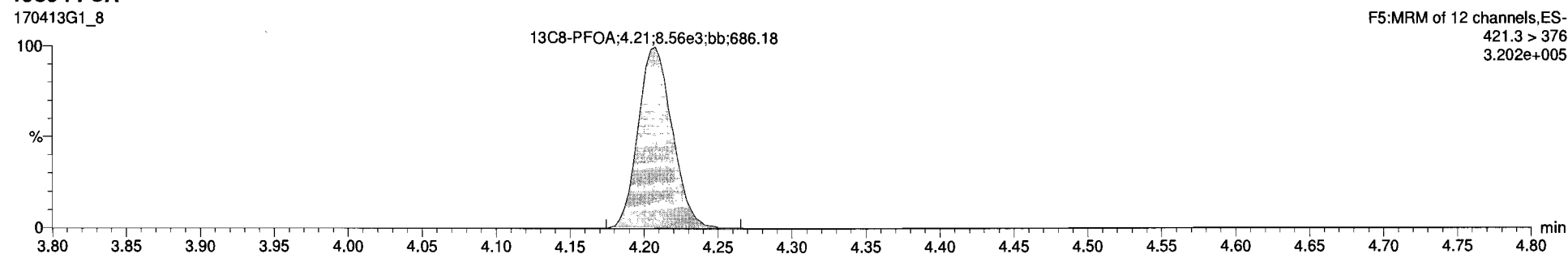
**Total PFOA**



**13C2-PFOA**



**13C8-PFOA**



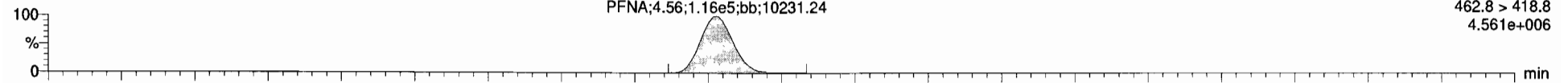
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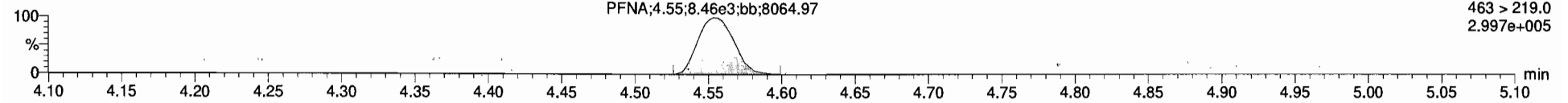
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**PFNA**

170413G1\_8

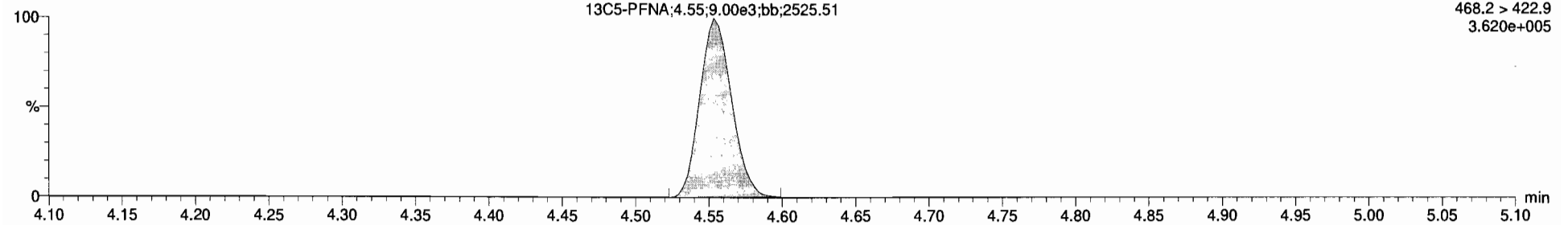


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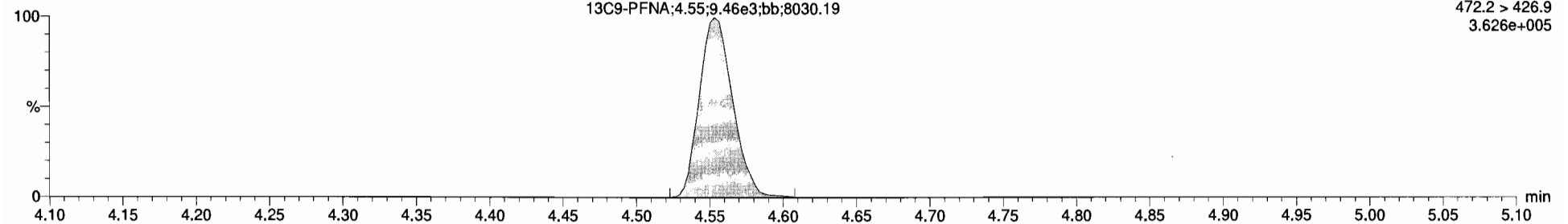
**13C5-PFNA**

170413G1\_8



**13C9-PFNA**

170413G1\_8



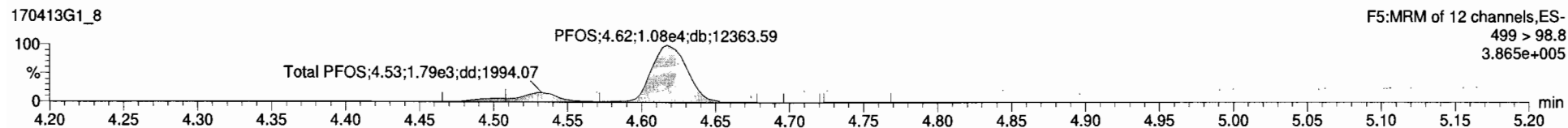
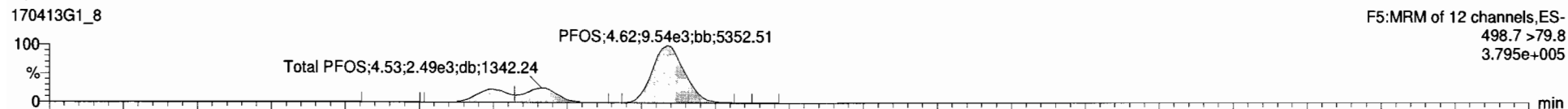
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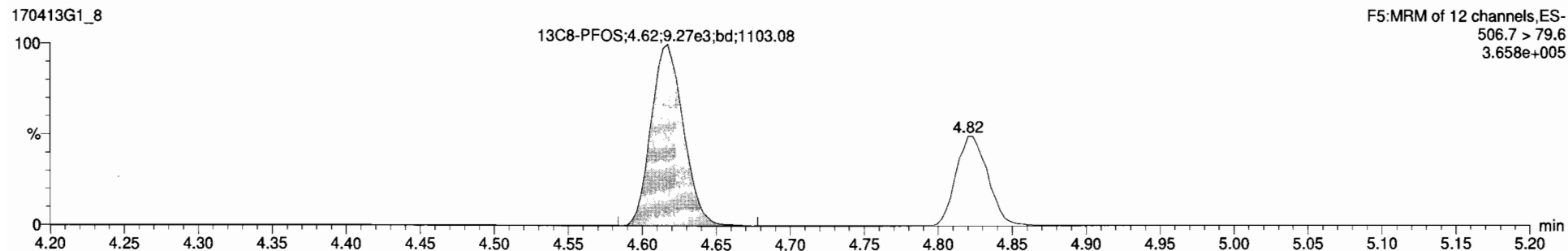
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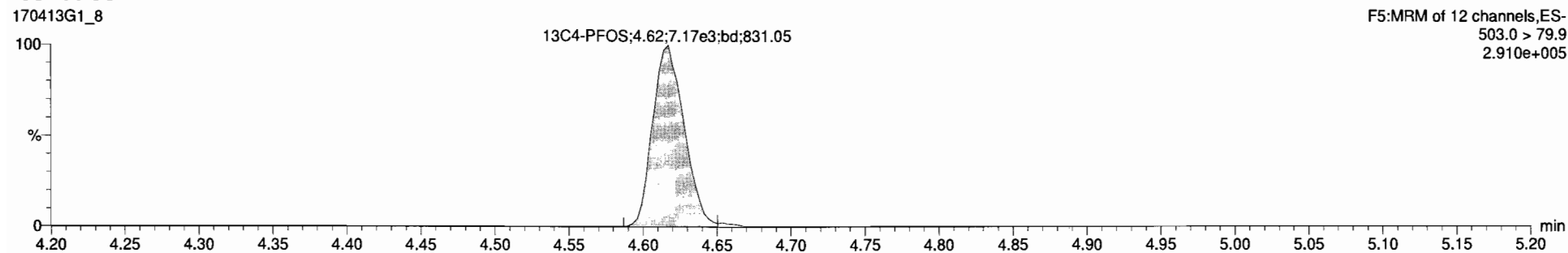
**Total PFOS**



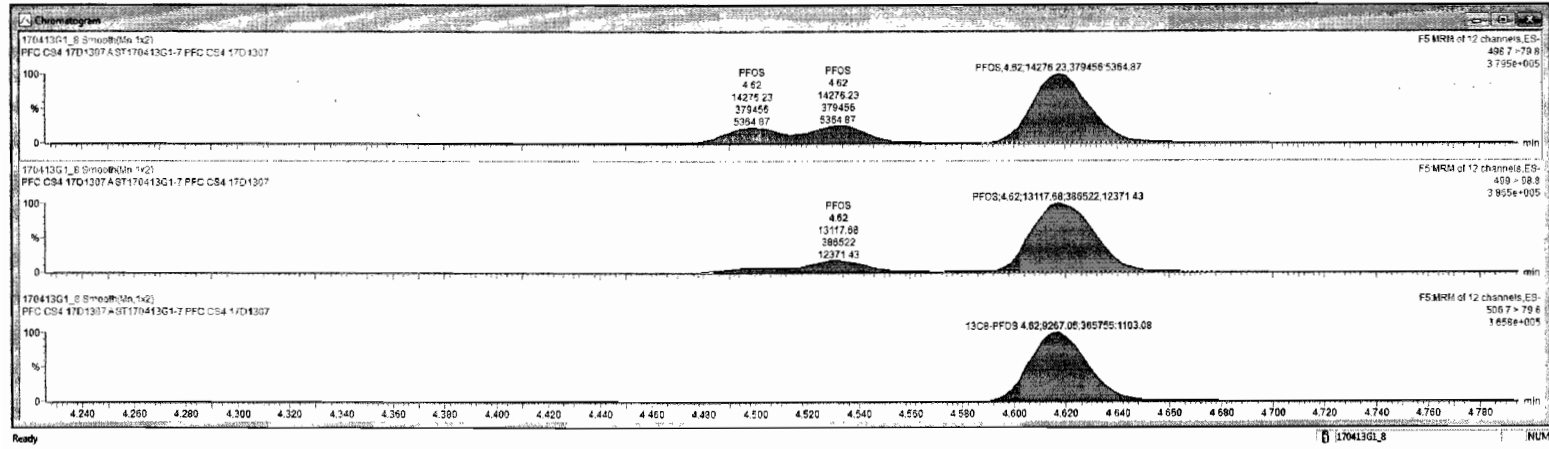
**13C8-PFOS**



**13C4-PFOS**



Sl	Name	Conc	DL	NReac	EMPC	Abn Resp	RRF	RT	#	CA	RA	Y/N	RR1	Acq Date	Acq Time	# Ch Noise	D	Sample Tm	Factor	SVN	Cal File	>MCL
1	PFBS	48.243373	0.00548	96.5		5.6774e4		2.91	1	7	0.274	YES	1.001	13-Apr-17	10:57:43	36.058	ST170413G1	PFC CS4 17D13...	1.0	1.00		YES
2	PFNA	48.362551		96.7		9.2264e4		3.60	2	8			1.003	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		YES
3	PFHxS	52.042602		104.1		6.2144e4		3.92	3	9			1.002	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		YES
4	PFDA	50.723997		101.4		1.0798e5		4.21	4	10			1.004	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		YES
5	PFNA	52.056421		105.3		1.1636e5		4.56	5	11			1.001	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		YES
6	PFOS	51.401119	0.0990	102.9		1.4264e4		4.62	6	12			1.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		YES
7	13C1-PFBS	11.732251	0.00540	54.3		6.0093e3	0.463	2.90	1	14			0.997	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
8	13C1-PFNA	12.505636	0.00333	102.6		1.2364e4	0.857	3.50	2	14			0.970	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
9	13C2-PFHxS	12.514102	0.00468	100.3		6.2073e3	0.440	3.90	3	14			1.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
10	13C2-PFDA	11.738622	0.00386	54.3		2.7154e4	3.366	4.21	10	15			1.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
11	13C5-PFNA	13.093288	0.0136	104.7		9.0003e3	0.905	4.55	11	16			1.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
12	13C6-PFOS	12.389251	0.0273	99.1		9.2673e3	1.304	4.62	12	17			1.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
13	13C5-PFNA	12.500000	0.0128	100.0		2.1504e4	1.030	3.28	13	13			0.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
14	13C3-PFHxS	12.500000	0.00205	100.0		1.4076e4	1.000	3.92	14	14			0.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
15	13C8-PFDA	12.500000	0.0445	100.0		8.3563e3	1.000	4.21	15	15			0.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
16	13C9-PFNA	12.500000	0.00709	100.0		9.4643e3	1.000	4.55	16	16			0.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.0378	100.0		7.1893e3	1.000	4.62	17	17			0.000	13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
18	Total PFBS	48.285137	0.00670						18					13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
19	Total PFHxS	52.057963							19					13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
20	Total PFDA	50.723997							20					13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO
21	Total PFOS	59.519596	0.0950						21					13-Apr-17	10:57:43		ST170413G1	PFC CS4 17D13...	1.0	1.00		NO

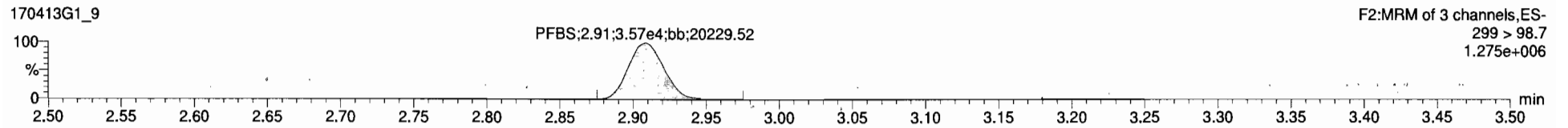
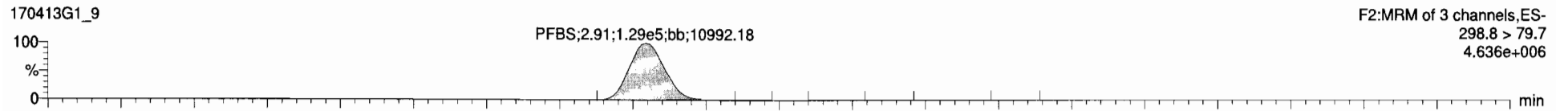


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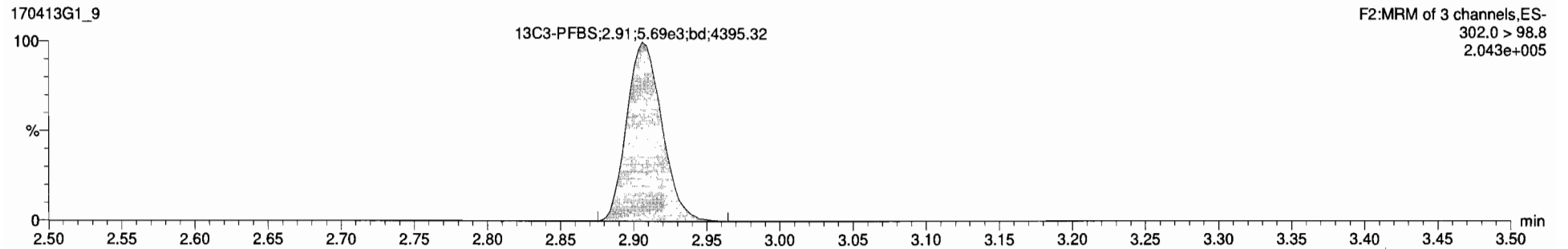
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Printed: Thursday, April 13, 2017 12:09:41 Pacific Daylight Time

ID: ST170413G1-8 PFC CS5 17D1308, Description: PFC CS5 17D1308 A, Name: 170413G1\_9, Date: 13-Apr-2017, Time: 11:10:56, Instrument: , Lab: , User:

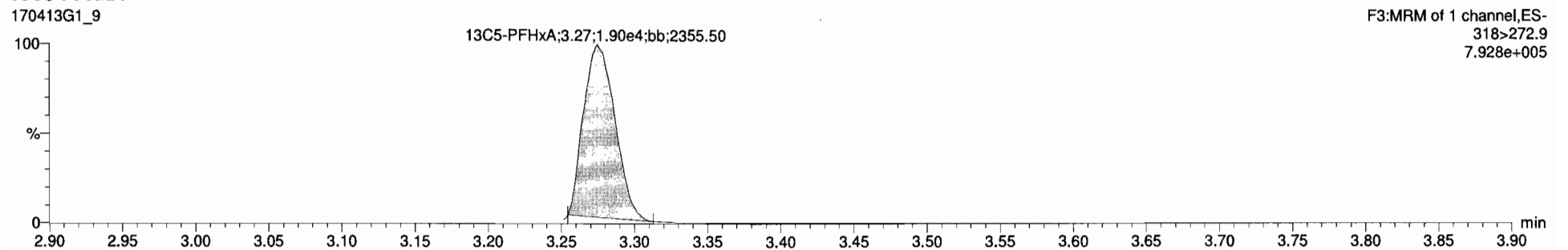
**Total PFBS**



**13C3-PFBS**



**13C5-PFHxA**

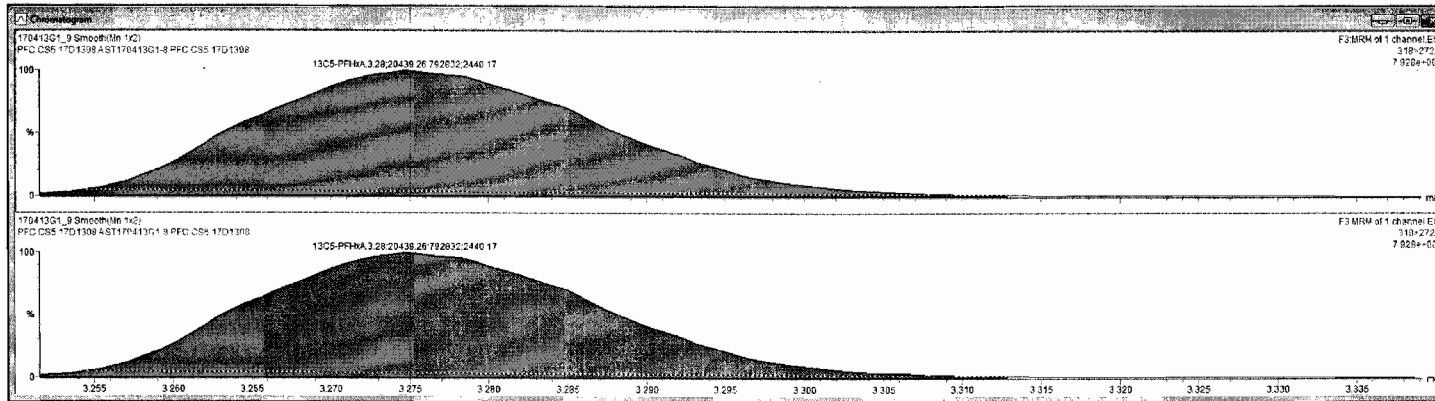




TargetLine - 17041361-9  
 File Edit View Display Processing Window Help

17041361\_9 ST170413G1.8 PFC CSS 17D1306 PFC CSS 17D1368 A

#	Name	Conc	DL	%Rec	EMPC	Act.Reco	RF	RT	#	RA	YN	PR1	Acq Date	Acq Time	Ch	Flow	Sample Text	Factor	SWI	Cal File	MDL
1	PFBS	100.67577	0.0226	100.7		1.29e5	2.91	11	27	0.276	YES	1.001	13-Apr-17	11:10:56	62.948	ST170413G	PFC CSS 17D13..	1.0	1.00		YES
2	PFNA	100.46800		100.0		1.739e5	3.02	2	0			1.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		YES
3	PFHS	86.834523		96.8		1.172e5	3.92	3	9			1.002	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		YES
4	PFOA	86.661551		96.7		2.160e5	4.21	4	10			1.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		YES
5	PFHA	86.429639		96.4		2.330e5	4.56	5	11			1.001	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		YES
6	PFOS	86.347624	0.126	96.3		2.510e4	4.92	6	12			1.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		YES
7	13C1-PFBS	11.779450	0.00571	94.2		5.659e3	0.423	2.91	7	10		0.827	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
8	13C2-PFNA	12.269053	0.00237	94.2		1.122e4	0.357	3.02	8	14		0.876	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
9	13C3-PFHS	13.423841	0.00203	107.4		0.290e3	0.440	3.92	9	14		1.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
10	13C4-PFOA	12.264401	0.00203	96.1		2.751e4	3.266	4.21	10	15		1.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
11	13C5-PFHA	12.231183	0.00222	97.8		9.849e3	0.909	4.56	11	16		1.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
12	13C6-PFOS	12.009447		90.7		1.194e4	1.264	4.92	12	17		1.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
13	13C7-PFNA	12.500000	0.0128	100.0		1.296e4	1.000	5.28	13	13		0.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
14	13C8-PFHS	12.600000	0.009625	100.0		1.334e4	1.000	3.92	14	14		0.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
15	13C9-PFOA	12.600000	0.00545	100.0		0.331e3	1.000	4.21	15	15		0.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
16	13C10-PFHA	12.600000		100.0		1.108e4	1.000	4.56	16	16		0.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
17	13C11-PFOS	12.600000	0.00246	100.0		9.460e3	1.000	4.92	17	17		0.000	13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
18	Total PFBS	100.70559		0.0255				15					13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
19	Total PFNA	116.81582						15					13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
20	Total PFOA	86.661551						20					13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO
21	Total PFOS	129.69324	0.126					21					13-Apr-17	11:10:56		ST170413G	PFC CSS 17D13..	1.0	1.00		NO



Custom Internet Explorer reports to generate 170413G1\_9 NUM

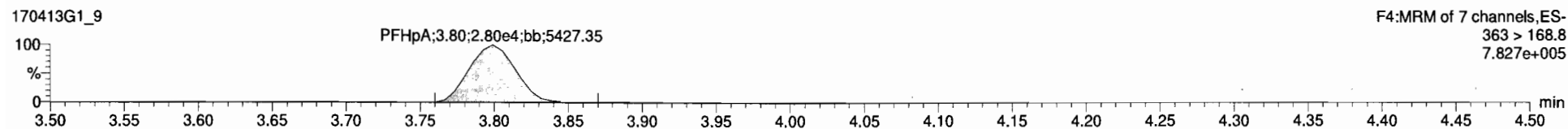
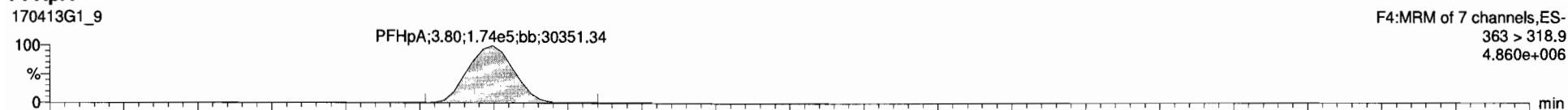
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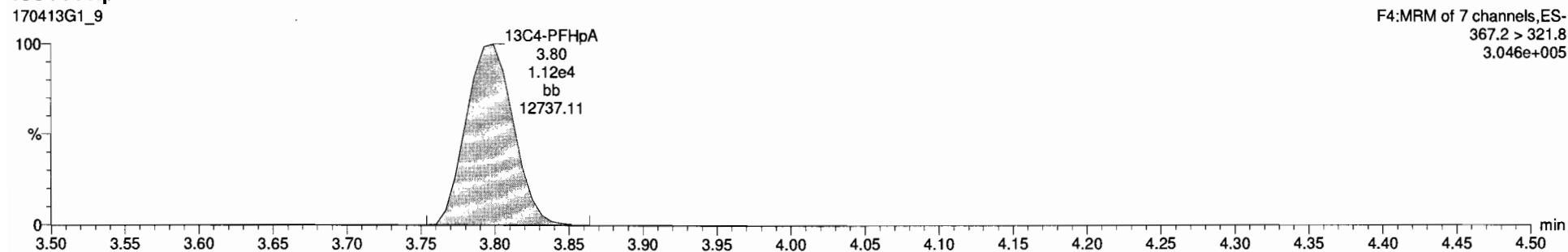
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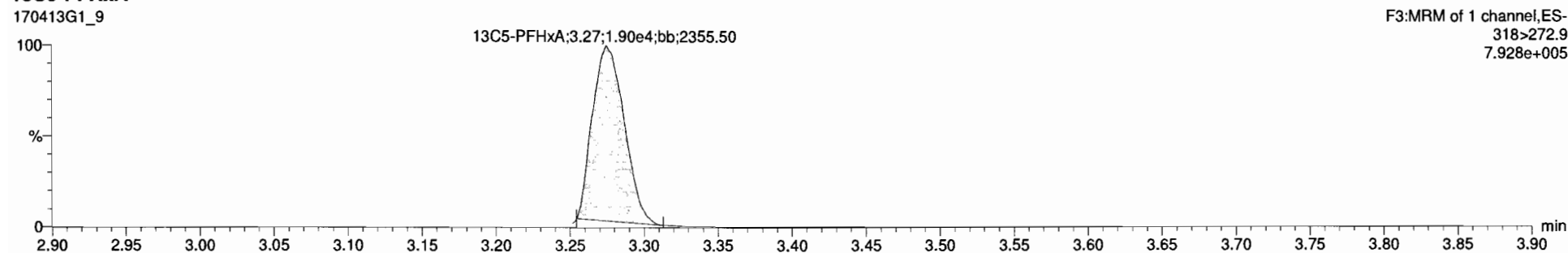
**PFHpA**



**13C4-PFHpA**



**13C5-PFHxA**

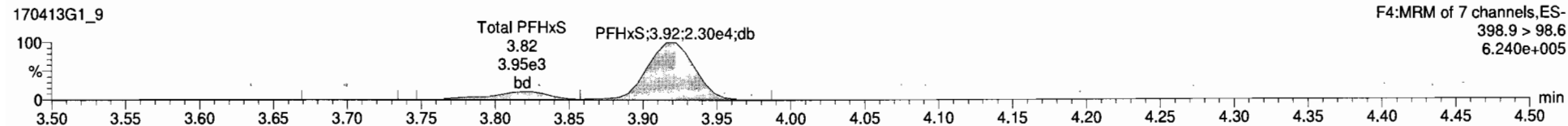
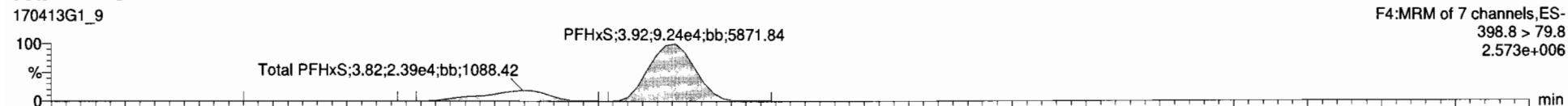


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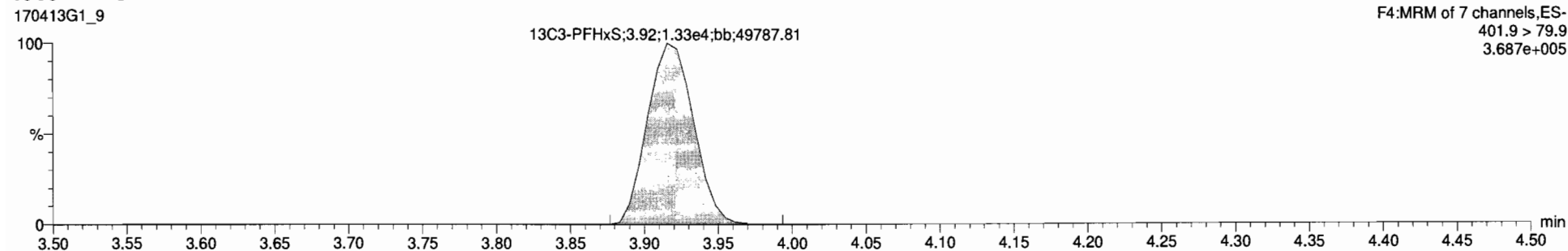
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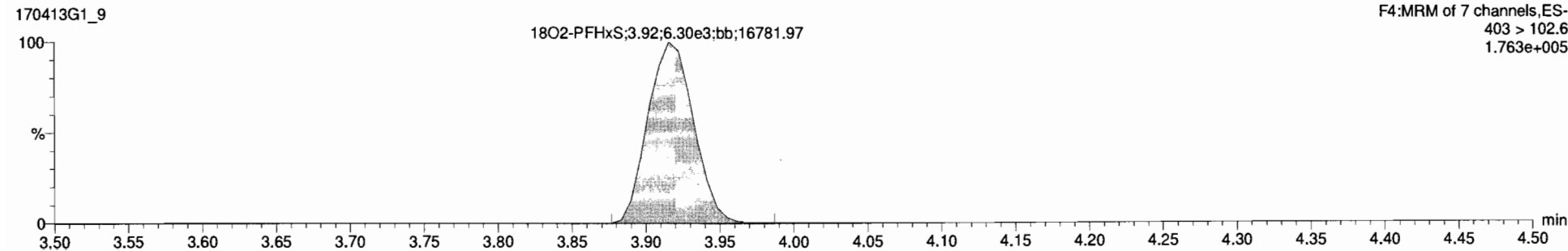
**Total PFHxS**



**13C3-PFHxS**



**18O2-PFHxS**

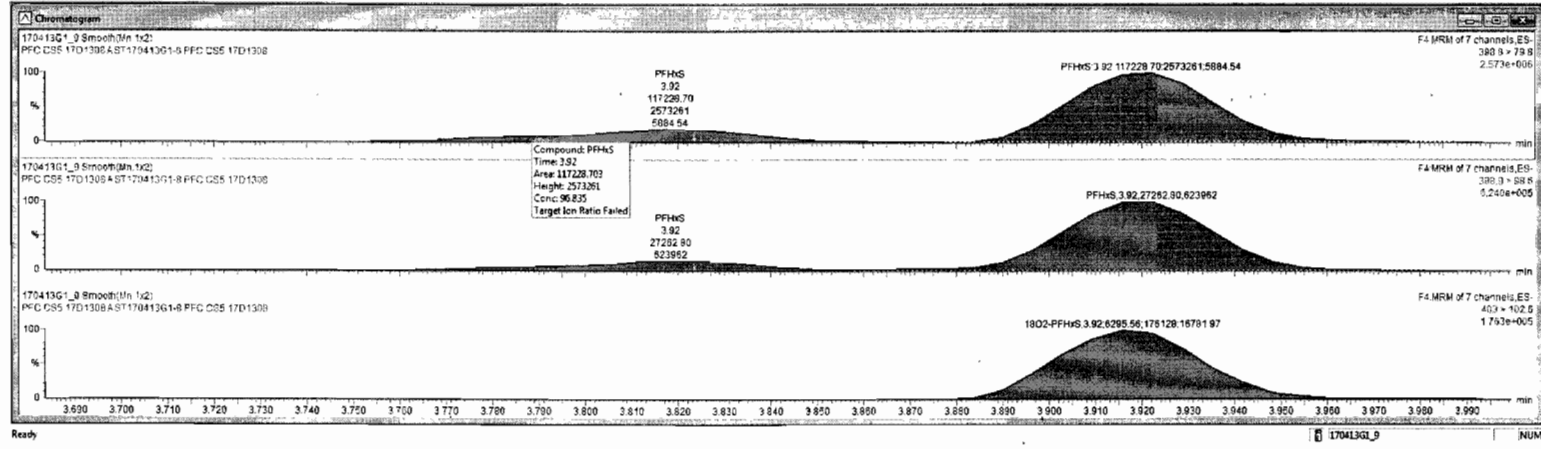


Targetlynx - 170413G1 - C

File Edit View Display Processing Window Help

170413G1\_9 ST170413G1-8 PFC CS5 17D1308 - PFC CS5 17D1308 A

Name	Conc	DL	%Rec	EMPC	Area Resp	RPV	RT	#	EW	SA	YN	VRT	Acq Date	Acq Time	Chl Name	ID	Sample Yield	Factor	SHI	Cal/Fac	MDL
1. PFBS	100.67677	0.0228	100.7		1.25245	2.91	7	7	0.276		YES	1.001	13-Apr-17	11:10:56	62.949	ST170413G	PFC CS5 17D13	1.0	1.00		YES
2. PFHpA	100.45050		100.5		1.73943	3.00	2	8				1.009	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		YES
3. PFHxS	96.834523		96.8		1.17245	3.92	3	9				1.002	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		YES
4. PFDA	98.681551		98.7		2.10865	4.21	4	10				1.000	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		YES
5. PFNA	96.429635		96.4		2.33045	4.56	5	11				1.001	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		YES
6. PFOS	95.347924	0.128	95.3		3.51884	4.82	6	12				1.009	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		YES
7. 13CS-PFBS	11.770558	0.00271	94.2		5.60943	4.453	2.91	7	14			0.997	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
8. 13CL-PFHpA	12.269653	0.00237	96.2		1.12244	0.657	3.90	9	14			0.978	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
9. 1802-PFHxS	13.423841	0.00203	107.4		6.29643	0.440	3.92	9	14			1.005	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
10. 13CL-PFOA	12.254401	0.00281	98.1		2.75184	2.356	4.21	10	15			1.000	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
11. 13CS-PFNA	12.231183	0.00222	97.0		8.84943	0.969	4.56	11	16			1.002	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
12. 13CS-PFOS	12.089047		96.7		1.19484	1.264	4.62	12	17			1.000	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
13. 13CS-PFHpA	12.590000	0.0126	100.0		2.04484	1.000	3.26	13	13			0.999	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
14. 13CS-PFBS	12.590000	0.000628	100.0		1.33484	1.000	3.62	14	14			0.999	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
15. 13CL-PFOA	12.590000	0.04545	100.0		0.33142	0.000	4.21	15	15			0.999	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
16. 13CS-PFNA	12.590000		100.0		1.10864	0.000	4.56	16	16			0.999	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
17. 13CL-PFOS	12.590000	0.00346	100.0		9.45043	0.000	4.62	17	17			0.999	13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
18. Total PFBS	100.70259	0.0285						10					13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
19. Total PFHpA	116.61962							19					13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
20. Total PFOA	98.681551							20					13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO
21. Total PFOS	128.60354	0.128						21					13-Apr-17	11:10:56		ST170413G	PFC CS5 17D13	1.0	1.00		NO

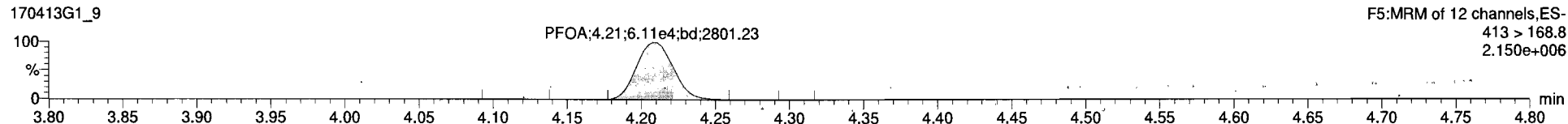
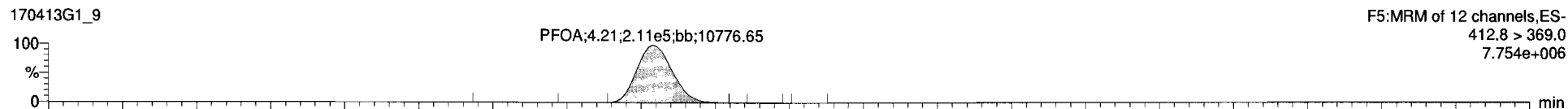


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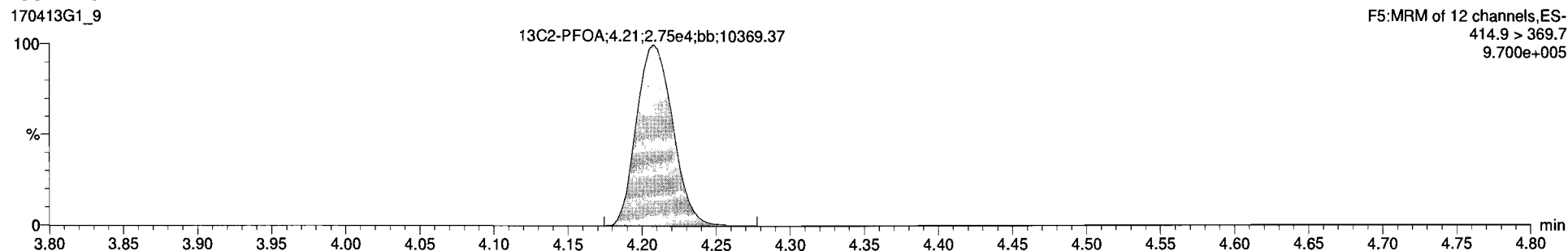
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ID: ST170413G1-8 PFC CS5 17D1308, Description: PFC CS5 17D1308 A, Name: 170413G1\_9, Date: 13-Apr-2017, Time: 11:10:56, Instrument: , Lab: , User:

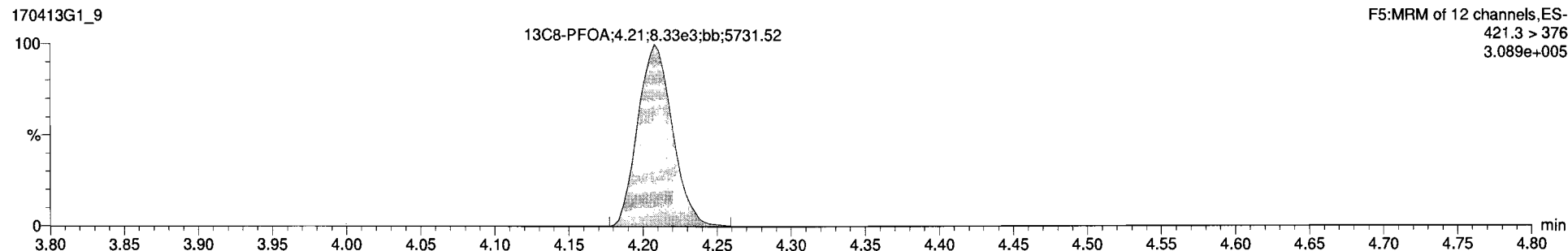
**Total PFOA**



**13C2-PFOA**



**13C8-PFOA**

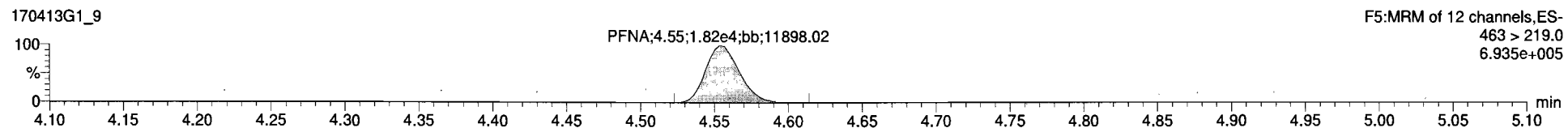
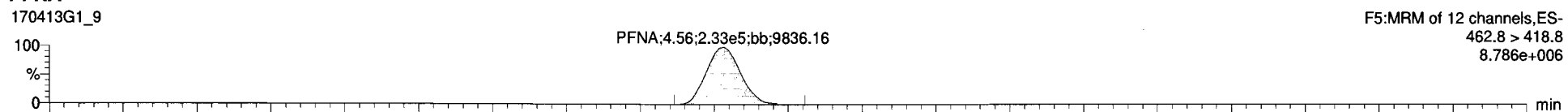


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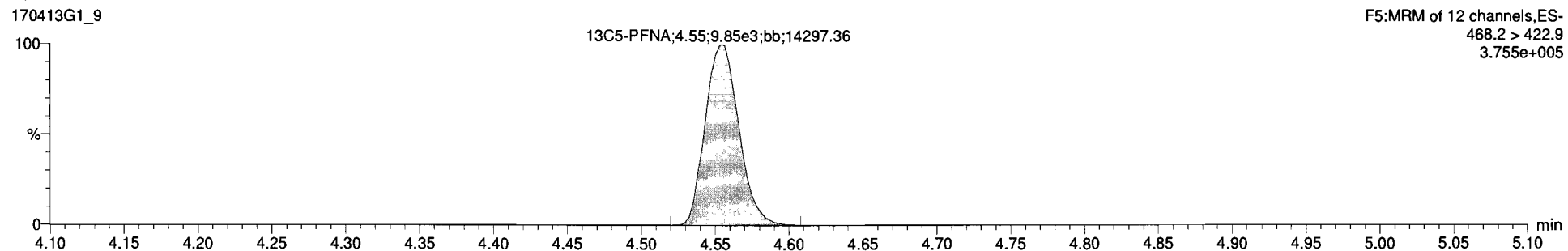
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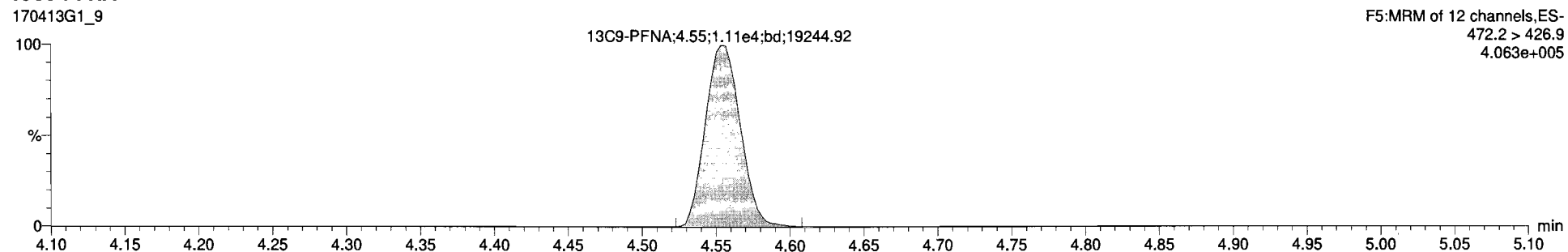
**PFNA**



**13C5-PFNA**



**13C9-PFNA**

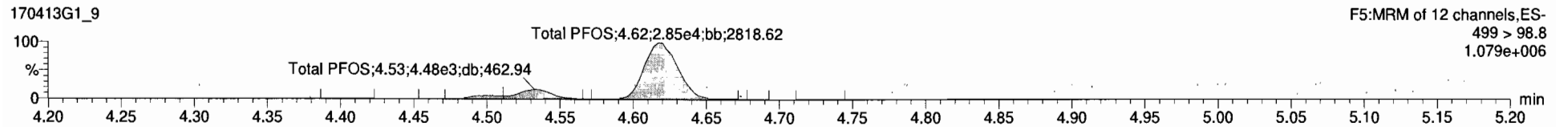
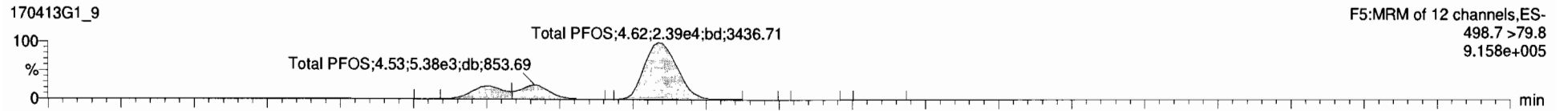


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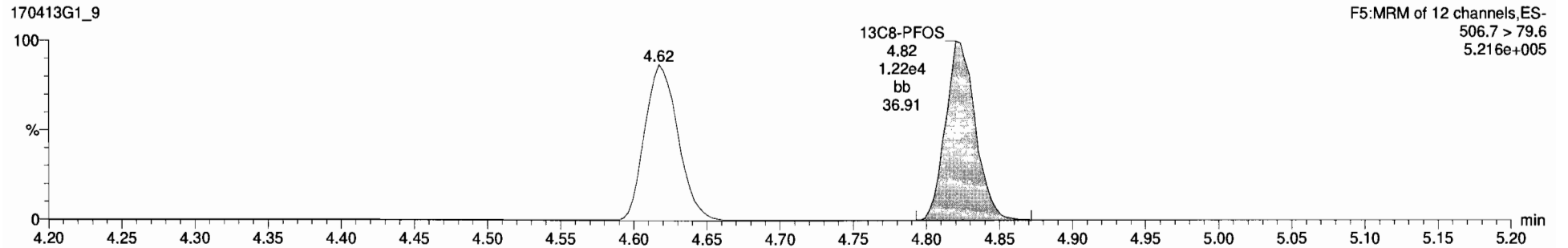
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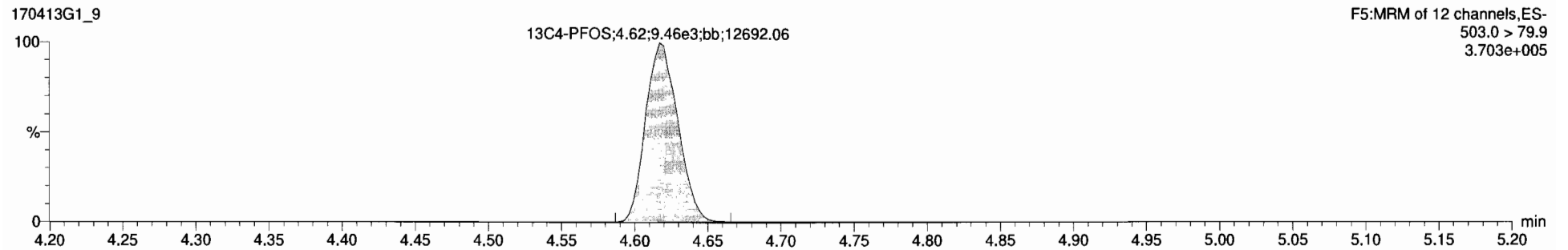
**Total PFOS**



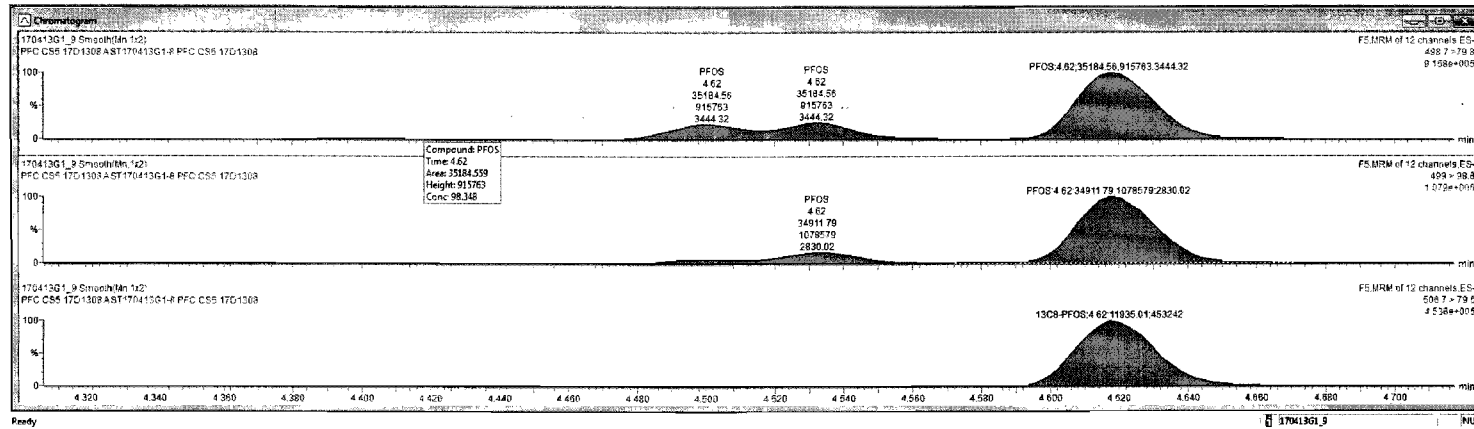
**13C8-PFOS**



**13C4-PFOS**



Name	Conc	DC	%Rec	.EMPC	Area	Resol	RRF	RT	SI	RA	V/N	RRT	Acq Date	Acq Time	1 <sup>st</sup> Chr/Name	D	Sample Text	Factor1	SWL	Cal File	INCL
1 PFBS	100.67677	0.6226	100.7		1.282e5		2.91	4	7	0.278	YES	1.001	13-Apr-17	11:10:56	62.948	ST170413G...	PFC CSS 17D13...	1.0	1.00		YES
2 PFHxA	100.45960		100.5		1.739e5		3.50	2	3			1.003	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		YES
3 PFHxS	98.63453		98.9		1.172e5		3.92	3	9			1.002	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		YES
4 PFDA	98.66151		98.7		2.108e5		4.21	4	10			1.000	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		YES
5 PFNA	98.42859		98.4		2.330e5		4.56	5	11			1.001	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		YES
6 PFOS	98.34782	0.126	98.3		3.518e4		4.62	6	32			1.000	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		YES
7 13C3-PFBS	11.779858	0.00971	94.2		5.589e3	0.453	2.91	7	14			0.827	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
8 13C4-PFHxA	12.269953	0.00237	96.2		1.122e4	0.857	3.50	8	14			0.970	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
9 13C2-PFHxS	13.423241	0.00203	107.4		6.286e2	0.440	3.92	9	14			1.000	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
10 13C3-PFDA	12.234481	0.00251	96.1		2.731e4	3.386	4.21	10	15			1.000	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
11 13C5-PFNA	12.231183	0.00222	97.8		8.549e3	0.308	4.56	11	16			1.002	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
12 13C4-PFOS	12.089047	0.0126	106.0		1.194e4	1.304	4.62	12	17			1.000	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
13 13C5-PFHxA	12.580060	0.0126	106.0		2.044e4	1.006	3.28	13	13			0.900	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
14 13C3-PFHxS	12.580060	0.00626	106.0		1.334e4	1.000	3.92	14	14			0.900	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
15 13C5-PFDA	12.580060	0.00545	102.0		8.331e2	1.000	4.21	15	15			0.900	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
16 13C5-PFNA	12.580060	106.0			1.088e4	1.000	4.56	16	15			0.900	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
17 13C4-PFOS	12.580060	0.00246	100.0		9.403e3	1.000	4.62	17	17			0.900	13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
18 Total PFBS	100.70069	0.0095						18					13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
19 Total PFHxS	118.81962							19					13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
20 Total PFDA	98.66151							20					13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO
21 Total PFOS	128.60354	0.126						21					13-Apr-17	11:10:56		ST170413G...	PFC CSS 17D13...	1.0	1.00		NO





Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-11.qld

Last Altered: Thursday, April 13, 2017 13:22:10 Pacific Daylight Time

Printed: Thursday, April 13, 2017 13:23:02 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 08:50:47

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_Std.cdb 13 Apr 2017 12:34:50

*New Ed 4/13/17*

Name: 170413G1\_11, Date: 13-Apr-2017, Time: 11:36:16, ID: SS170413G1-1 PFC SSS 17D1309, Description: PFC SSS 17D1309 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS (A)	298.8 > 79.7	1.18e4	6.78e3		1.000	2.91	7.68	<del>76.8</del> 86.8
2	2 PFHpA	363 > 318.9	1.87e4	1.31e4		1.000	3.80	9.20	92.0
3	3 PFHxS (A)	398.8 > 79.8	1.02e4	6.65e3		1.000	3.92	7.95	<del>79.5</del> 87.2
4	4 PFOA	412.8 > 369.0	1.99e4	2.81e4		1.000	4.21	9.03	90.3
5	5 PFNA	462.8 > 418.8	1.99e4	8.95e3		1.000	4.56	8.99	89.9
6	6 PFOS (A)	498.7 > 79.8	2.29e3	9.11e3		1.000	4.62	8.47	<del>84.7</del> 91.3
7	7 13C3-PFBS	302.0 > 98.8	6.78e3	1.49e4	0.453	1.000	2.91	12.6	100.7
8	8 13C4-PFHpA	367.2 > 321.8	1.31e4	1.49e4	0.857	1.000	3.80	12.9	103.1
9	9 18O2-PFHxS	403 > 102.6	6.65e3	1.49e4	0.440	1.000	3.92	12.7	101.6
10	10 13C2-PFOA	414.9 > 369.7	2.81e4	7.73e3	3.366	1.000	4.21	13.5	107.9
11	11 13C5-PFNA	468.2 > 422.9	8.95e3	9.38e3	0.909	1.000	4.56	13.1	105.0
12	12 13C8-PFOS	506.7 > 79.6	9.11e3	6.74e3	1.304	1.000	4.62	12.9	103.6
13	13 13C5-PFHxA	318 > 272.9	2.25e4	2.25e4	1.000	1.000	3.28	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.49e4	1.49e4	1.000	1.000	3.92	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	7.73e3	7.73e3	1.000	1.000	4.21	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	9.38e3	9.38e3	1.000	1.000	4.56	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	6.74e3	6.74e3	1.000	1.000	4.62	12.5	100.0

*75-125*  
↓

*ES 4/13/17*

*(A) concentration 2.0 mg/L in SS native mix ES 4/13/17.*

Dataset: Untitled

Last Altered: Thursday, April 13, 2017 13:20:01 Pacific Daylight Time

Printed: Thursday, April 13, 2017 13:20:07 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 08:50:47

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_Old.cdb 13 Apr 2017 12:34:50

ID: SS170413G1-1 PFC SSS 17D1309, Description: PFC SSS 17D1309 A, Name: 170413G1\_11, Date: 13-Apr-2017, Time: 11:36:16, Instrument: , Lab: , User:

**Total PFBS**

170413G1\_11

F2:MRM of 3 channels,ES-  
298.8 > 79.7  
4.462e+005

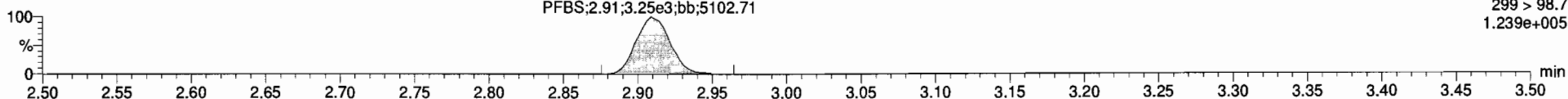
PFBS;2.91;1.18e4;bb;11577.16



170413G1\_11

F2:MRM of 3 channels,ES-  
299 > 98.7  
1.239e+005

PFBS;2.91;3.25e3;bb;5102.71

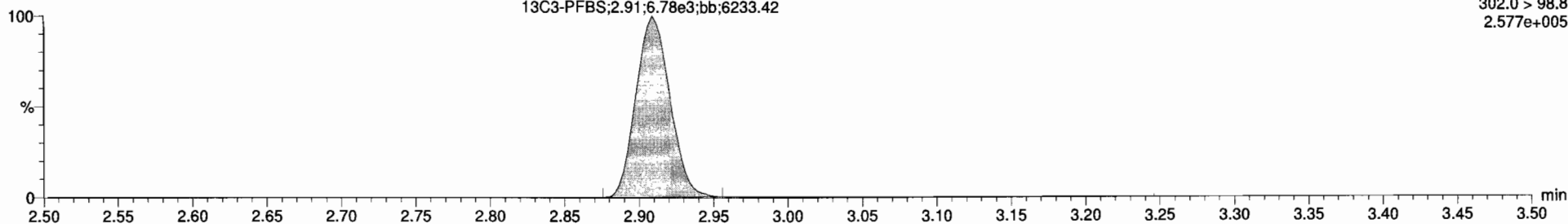


**13C3-PFBS**

170413G1\_11

F2:MRM of 3 channels,ES-  
302.0 > 98.8  
2.577e+005

13C3-PFBS;2.91;6.78e3;bb;6233.42

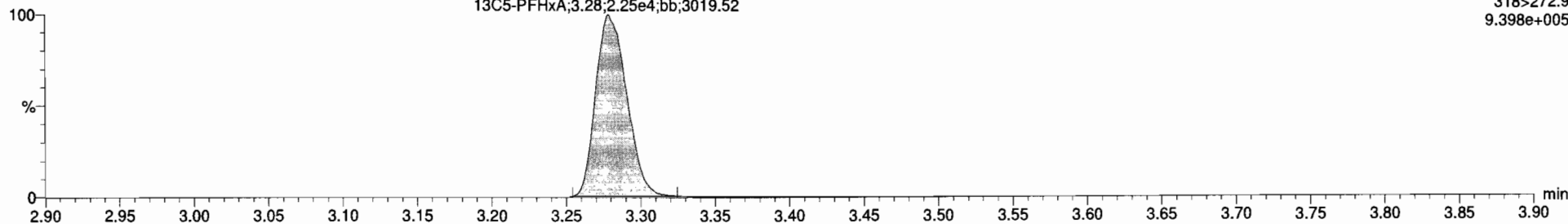


**13C5-PFHxA**

170413G1\_11

F3:MRM of 1 channel,ES-  
318>272.9  
9.398e+005

13C5-PFHxA;3.28;2.25e4;bb;3019.52



Dataset: Untitled

Last Altered: Thursday, April 13, 2017 13:20:01 Pacific Daylight Time

Printed: Thursday, April 13, 2017 13:20:07 Pacific Daylight Time

ID: SS170413G1-1 PFC SSS 17D1309, Description: PFC SSS 17D1309 A, Name: 170413G1\_11, Date: 13-Apr-2017, Time: 11:36:16, Instrument: , Lab: , User:

**PFHpA**

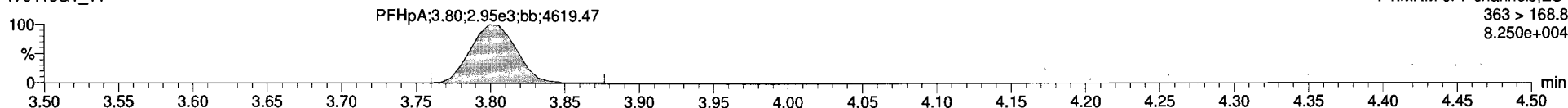
170413G1\_11

F4:MRM of 7 channels,ES-  
363 > 318.9  
5.313e+005



170413G1\_11

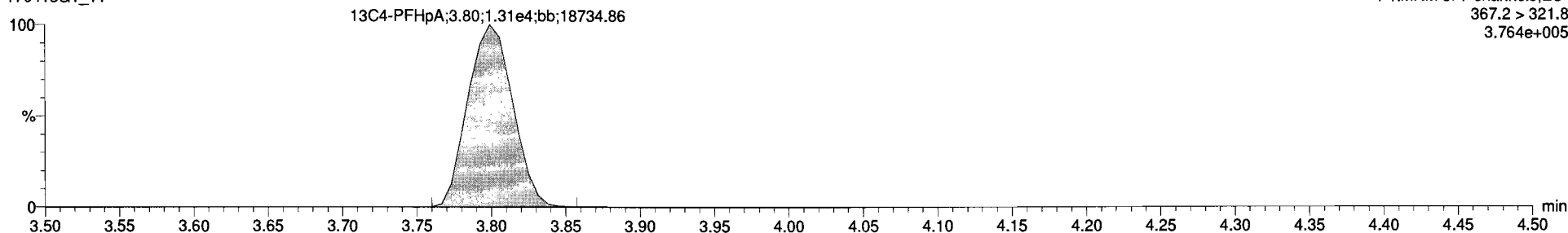
F4:MRM of 7 channels,ES-  
363 > 168.8  
8.250e+004



**13C4-PFHpA**

170413G1\_11

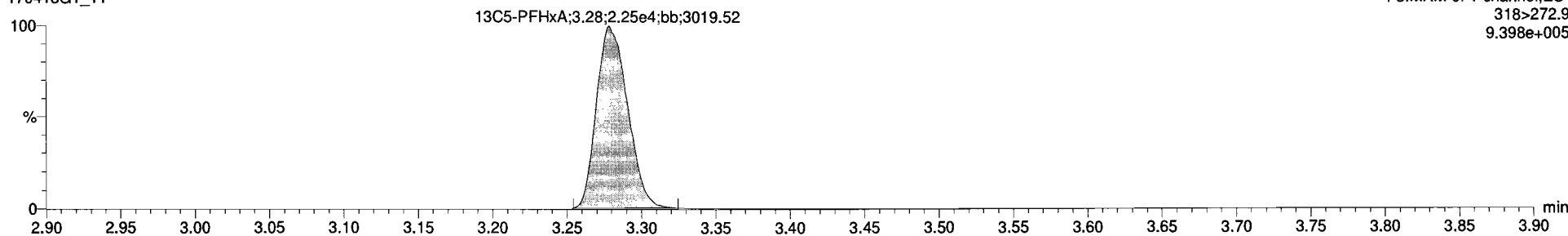
F4:MRM of 7 channels,ES-  
367.2 > 321.8  
3.764e+005



**13C5-PFHxA**

170413G1\_11

F3:MRM of 1 channel,ES-  
318>272.9  
9.398e+005



Dataset: Untitled

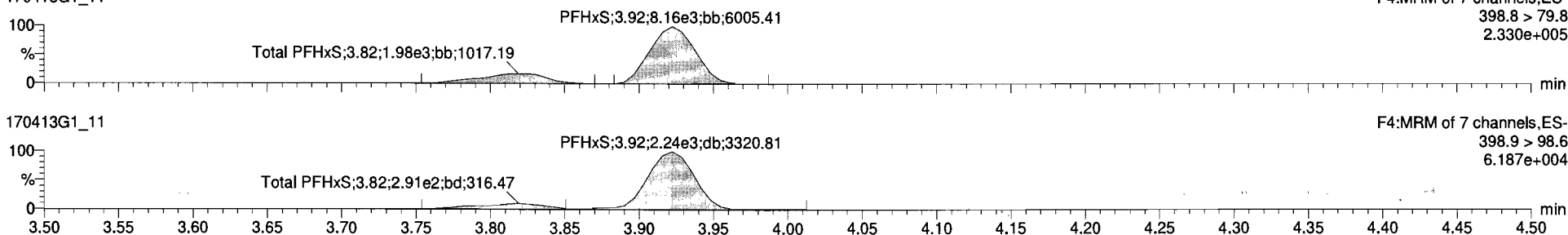
Last Altered: Thursday, April 13, 2017 13:20:01 Pacific Daylight Time  
Printed: Thursday, April 13, 2017 13:20:07 Pacific Daylight Time

ID: SS170413G1-1 PFC SSS 17D1309, Description: PFC SSS 17D1309 A, Name: 170413G1\_11, Date: 13-Apr-2017, Time: 11:36:16, Instrument: , Lab: , User:

**Total PFHxS**

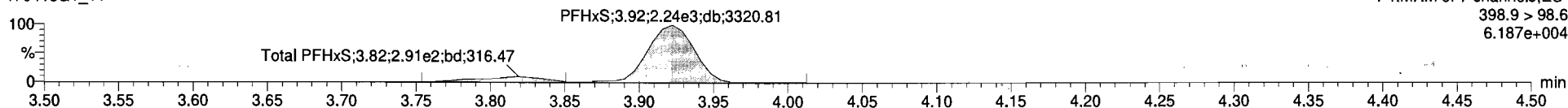
170413G1\_11

F4:MRM of 7 channels,ES-  
398.8 > 79.8  
2.330e+005



170413G1\_11

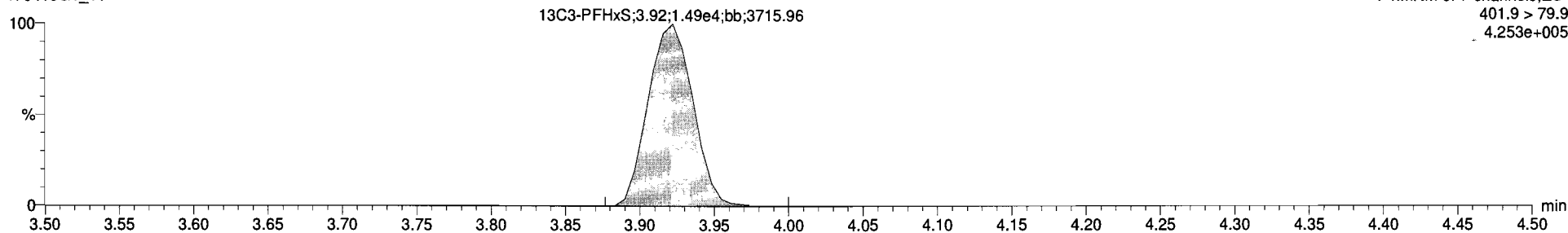
F4:MRM of 7 channels,ES-  
398.9 > 98.6  
6.187e+004



**13C3-PFHxS**

170413G1\_11

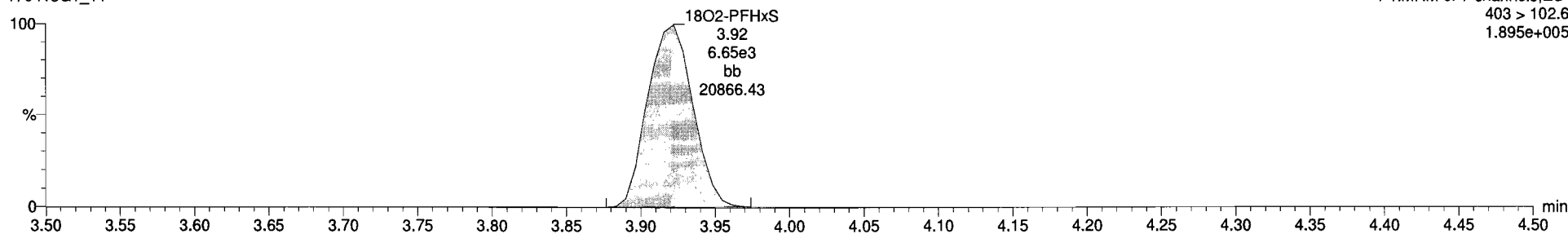
F4:MRM of 7 channels,ES-  
401.9 > 79.9  
4.253e+005



**18O2-PFHxS**

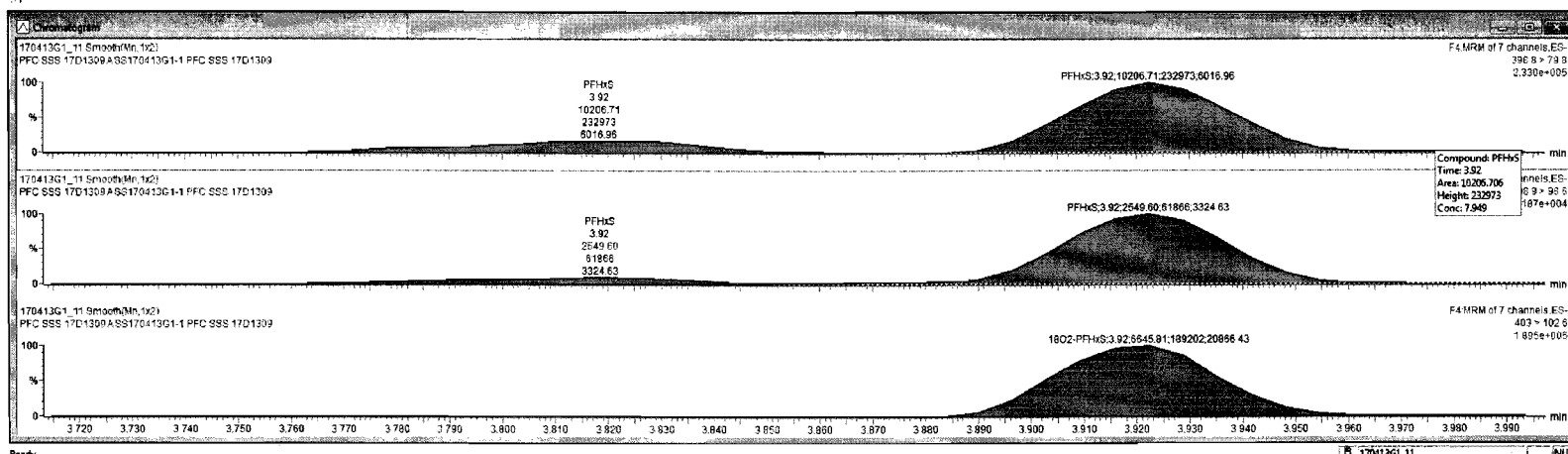
170413G1\_11

F4:MRM of 7 channels,ES-  
403 > 102.6  
1.895e+005



170413G1\_11 - SS170413G1-1 PFC SSS 17D1309 - PFC SSS 17D1309A

#	Name	Conc	DL	MPEC	EMPC	Abs Resp	RRP	RT	#S	RA	Y/N	RRT	Acq Date	Acq Time	1* Chk Note	D	Sample Text	Factor1	SVM	Cal File	>MOL
1	PFBS	7.6533614	0.00163	76.0		1.175e4		2.91	1	7	0.277	YES	1.000	13-Apr-17	11:36:16	24.256	SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
2	PFNA	9.1391952	0.0000	92.0		1.674e4		3.89	2	8			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	YES
3	PFOS	1.9484652	0.0000	78.0		3.621e4		3.92	3	9			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	YES
4	PFOA	9.0339296	0.0060	88.0		1.998e4		4.21	4	10			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	YES
5	PFNA	9.8932637	0.0060	89.0		1.998e4		4.56	5	11			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	YES
6	PFO5	8.4896740	0.0821	84.7		2.292e3		4.62	6	12			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	YES
7	13C3-PFBS	12.588196	0.00671	100.7		6.779e3	0.453	2.91	7	14			0.887	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
8	13C4-PFHpA	12.808586	0.00172	103.1		1.314e4	0.857	3.89	8	14			0.959	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
9	1802-PFHxS	12.705964	0.00152	101.6		6.646e3	0.443	3.92	9	14			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
10	13C2-PFOA	13.488810	0.0216	107.9		2.807e4	3.356	4.21	10	15			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
11	13C5-PFNA	13.126339	0.0128	105.0		6.952e3	0.909	4.56	11	16			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
12	13C8-PFO5	12.847099	0.0296	103.6		9.105e3	1.304	4.62	12	17			1.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
13	13C9-PFNA	12.500000	0.0100	100.0		2.253e4	1.000	3.23	13	13			0.500	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
14	13C3-PFHxS	12.500000	0.00841	100.0		1.487e4	1.000	3.92	14	14			0.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
15	13C8-PFOA	12.500000	0.00271	100.0		7.731e3	1.000	4.21	15	15			0.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
16	13C9-PFNA	12.500000	0.00125	100.0		9.383e3	1.000	4.56	16	16			0.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
17	13C4-PFO5	12.500000	0.00219	100.0		6.739e3	1.000	4.62	17	17			0.000	13-Apr-17	11:36:16		SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
18	Total PFBS	7.6633614							16				13-Apr-17	11:36:16			SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
19	Total PFHxS	9.4588497							19				13-Apr-17	11:36:16			SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
20	Total PFOA	9.0339296							20				13-Apr-17	11:36:16			SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO
21	Total PFO5	11.057526	0.0821						21				13-Apr-17	11:36:16			SS170413G... PFC SSS 17D13...	1.0	1.00	C18_V...	NO



Dataset: Untitled

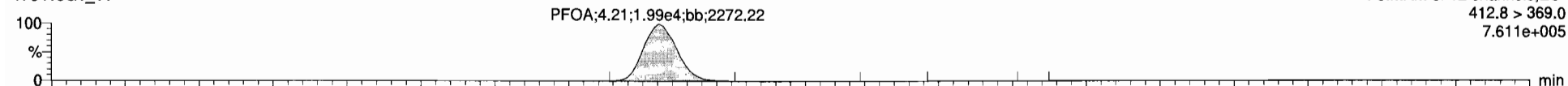
Last Altered: Thursday, April 13, 2017 13:20:01 Pacific Daylight Time  
Printed: Thursday, April 13, 2017 13:20:07 Pacific Daylight Time

ID: SS170413G1-1 PFC SSS 17D1309, Description: PFC SSS 17D1309 A, Name: 170413G1\_11, Date: 13-Apr-2017, Time: 11:36:16, Instrument: , Lab: , User:

**Total PFOA**

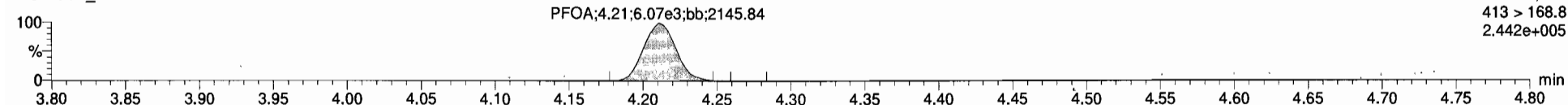
170413G1\_11

F5:MRM of 12 channels,ES-  
412.8 > 369.0  
7.611e+005



170413G1\_11

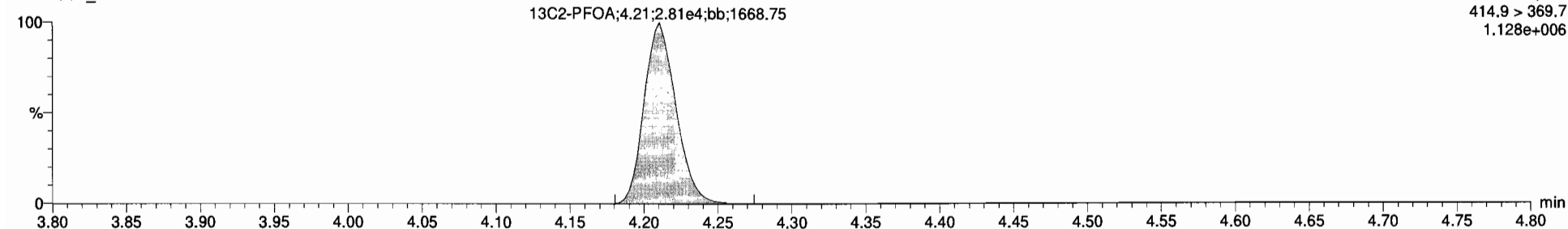
F5:MRM of 12 channels,ES-  
413 > 168.8  
2.442e+005



**13C2-PFOA**

170413G1\_11

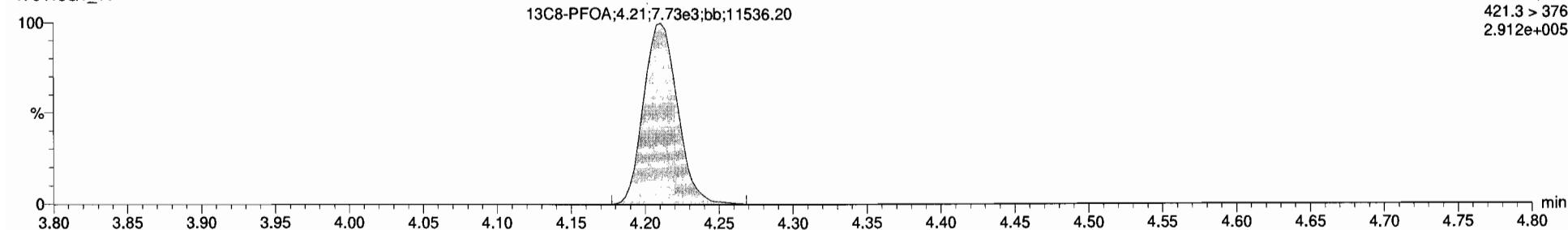
F5:MRM of 12 channels,ES-  
414.9 > 369.7  
1.128e+006



**13C8-PFOA**

170413G1\_11

F5:MRM of 12 channels,ES-  
421.3 > 376  
2.912e+005



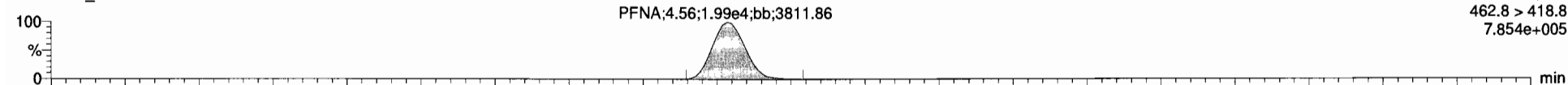
Dataset: Untitled

Last Altered: Thursday, April 13, 2017 13:20:01 Pacific Daylight Time  
Printed: Thursday, April 13, 2017 13:20:07 Pacific Daylight Time

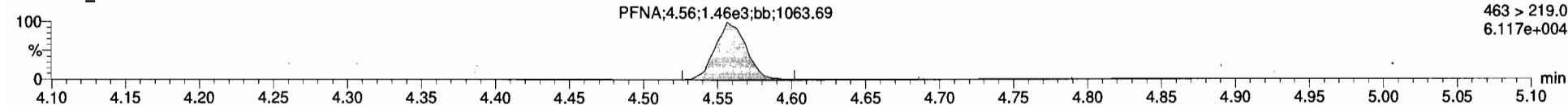
ID: SS170413G1-1 PFC SSS 17D1309, Description: PFC SSS 17D1309 A, Name: 170413G1\_11, Date: 13-Apr-2017, Time: 11:36:16, Instrument: , Lab: , User:

**PFNA**

170413G1\_11

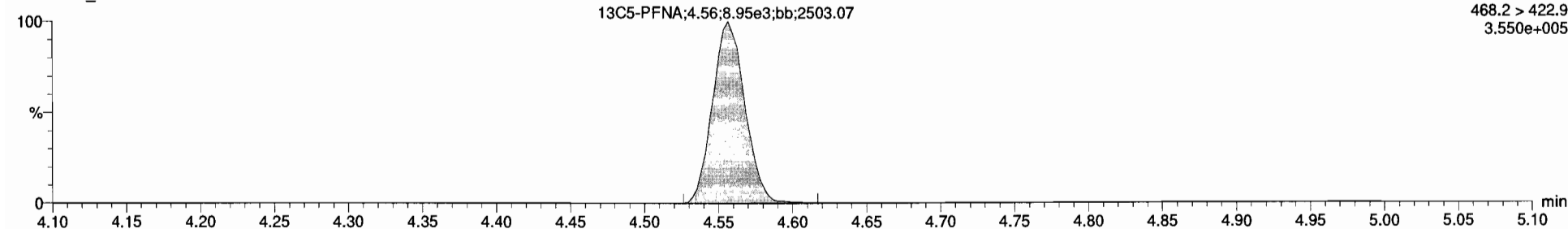


170413G1\_11



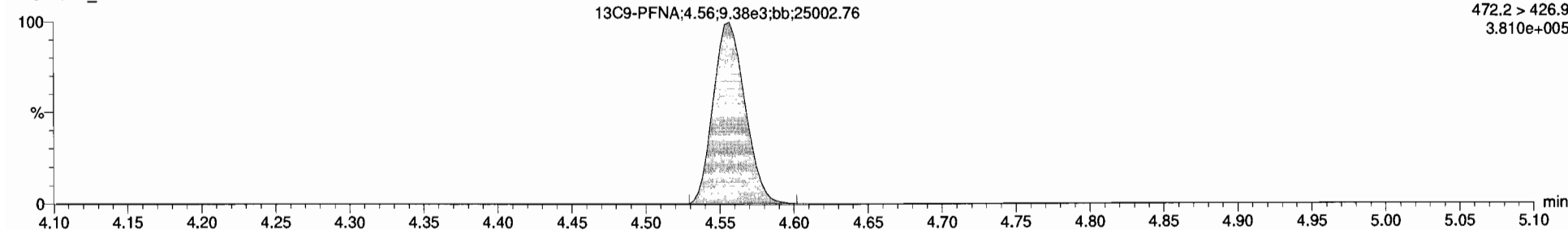
**13C5-PFNA**

170413G1\_11



**13C9-PFNA**

170413G1\_11



Dataset: Untitled

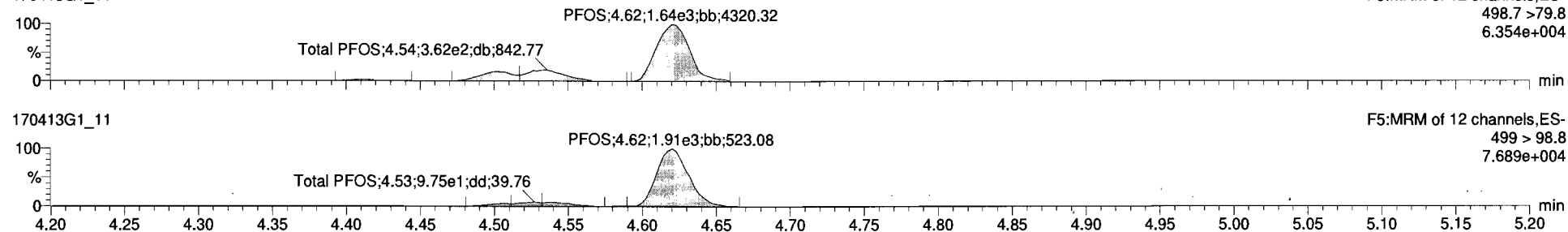
Last Altered: Thursday, April 13, 2017 13:20:01 Pacific Daylight Time  
Printed: Thursday, April 13, 2017 13:20:07 Pacific Daylight Time

ID: SS170413G1-1 PFC SSS 17D1309, Description: PFC SSS 17D1309 A, Name: 170413G1\_11, Date: 13-Apr-2017, Time: 11:36:16, Instrument: , Lab: , User:

**Total PFOS**

170413G1\_11

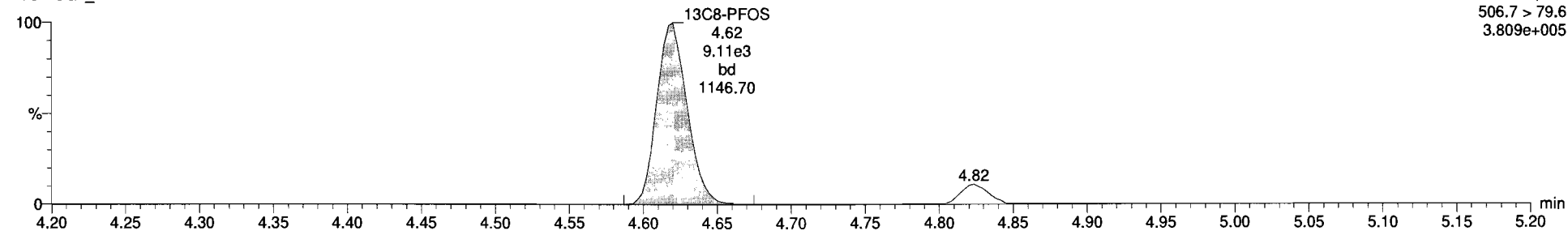
F5:MRM of 12 channels,ES-  
498.7 >79.8  
6.354e+004



**13C8-PFOS**

170413G1\_11

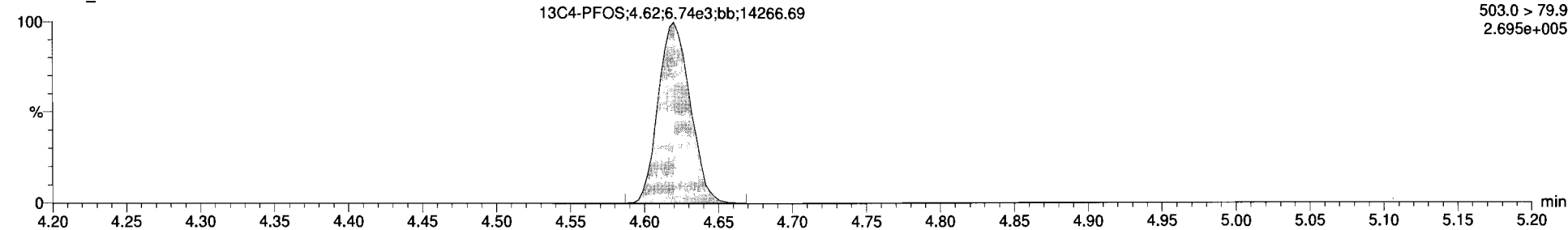
F5:MRM of 12 channels,ES-  
506.7 > 79.6  
3.809e+005



**13C4-PFOS**

170413G1\_11

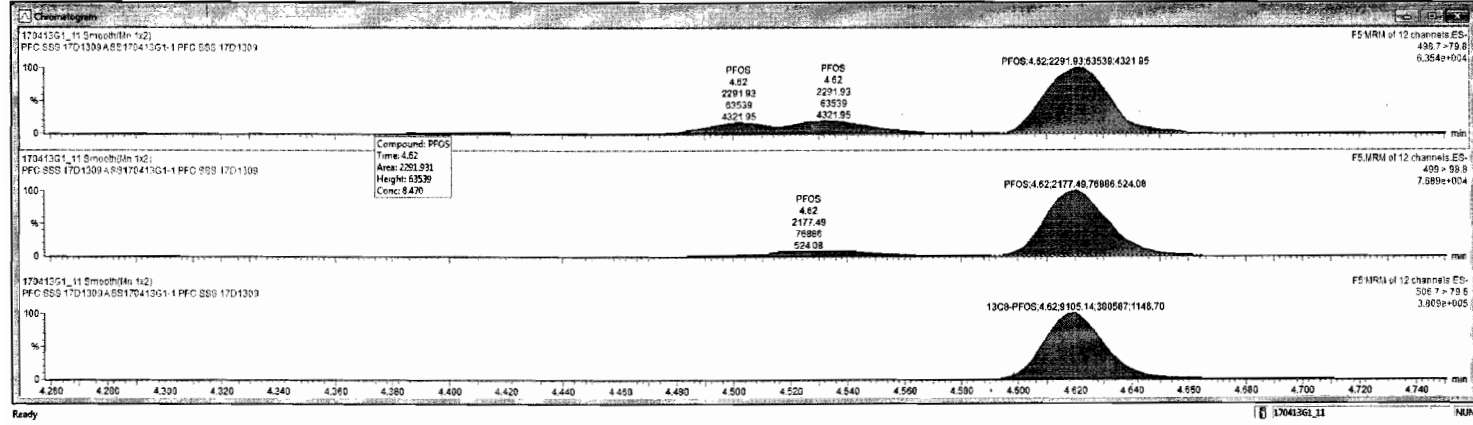
F5:MRM of 12 channels,ES-  
503.0 > 79.9  
2.695e+005





17041301\_11\_SS17041301\_PFC\_SSS\_17D1309\_PFC\_SSS\_17D1309A

Name	Comp	DU	%Rec	EMPC	Abn Res	RF	RT	#	RA	VM	RRT	Acq Date	Acq Time	# Ch/Name	Sample Test	Factor1	SD	Cal/Fit	MDL
1	PFBS	7.653814	0.00163	78.8	1.11544	2.91	11	7	0.277	YES	1.00	13-Apr-17	11:36:16	24.258	SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
2	PFHpA	8.1881952	0.0300	92.0	1.62444	3.60	2	0			1.00	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	YES
3	PFHxS	7.9484958	0.0300	79.5	1.62144	3.92	3	9			1.00	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	YES
4	PFOA	8.0336258	0.0000	90.3	1.89644	4.21	4	10			1.00	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	YES
5	PFNA	8.9930627	0.0000	89.9	1.89644	4.56	5	11			1.00	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	YES
6	PFOS	8.4886748	0.0001	84.7	2.22963	4.82	12				1.00	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	YES
7	13C8-PFBS	12.586198	0.00071	100.0	8.17843	8.453	281	14			0.887	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
8	13C8-PFHpA	12.886528	0.00172	103.1	1.31444	8.857	3.60	0			0.999	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
9	13C8-PFHxS	12.705964	0.00152	101.6	8.64643	8.468	3.82	0			1.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
10	13C8-PFOA	13.486810	0.0018	107.9	2.80744	3.368	4.21	10	15		1.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
11	13C8-PFNA	13.128339	0.0129	105.0	8.95243	8.958	4.58	11	16		1.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
12	13C8-PFOS	12.847099	0.0295	103.5	9.18143	1.304	4.82	12	17		1.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
13	13C8-PFNA	12.500000	0.0103	100.0	2.25344	1.000	3.28	13	13		0.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
14	13C8-PFHS	12.500000	0.00841	100.0	1.48744	1.000	3.82	14	14		0.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
15	13C8-PFOA	12.500000	0.00271	100.0	7.73143	1.000	4.21	15	15		0.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
16	13C8-PFNA	12.500000	0.00125	100.0	9.30343	1.000	4.58	16	16		0.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
17	13C8-PFOS	12.500000	0.00218	100.0	8.73943	1.000	4.82	17	17		0.000	13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
18	Total PFBS	7.5823814						18				13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
19	Total PFHS	8.4589497						19				13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
20	Total PFOA	8.0336258						20				13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO
21	Total PFOS	8.4886748						21				13-Apr-17	11:36:16		SS1704130_PFC_SSS_17D13	1.0	1.00	C16_V	NO



**Analytical Standard Record**

**Vista Analytical Laboratory**

**17D1704**

**Parent Standards used in this standard:**

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
17D1701	EPA-537SS (IS)	17-Apr-17	Jamie C. Stockman	01-Mar-22	17-Apr-17 10:17 by JCS	3

Description: 537 SS (Surrogate) Expires: 17-Apr-18  
Standard Type: Reagent Prepared: 19-Apr-17  
Solvent: 1%(H2)/MeOH Prepared By: Jamie C. Stockman  
Final Volume (mls): 15 Department: LCMS  
Vials: 1 Last Edit: 27-Apr-17 14:41 by AEW

Analyte	CAS Number	Concentration	Units
d5-EtFOSAA		0.8	ug/mL
13C2-PFHxA		0.2	ug/mL
13C2-PFDA		0.2	ug/mL



17D1701

EPA-537SS x3 |

**Surrogate Primary Dilution Standard**

**PRODUCT CODE:** EPA-537SS  
**LOT NUMBER:** 537SS0217  
**SOLVENT(S):** Methanol / Water (<1%)  
**DATE PREPARED:** (mm/dd/yyyy) 02/28/2017  
**LAST TESTED:** (mm/dd/yyyy) 03/01/2017  
**EXPIRY DATE:** (mm/dd/yyyy) 03/01/2022  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DESCRIPTION:**

EPA-537SS is a solution/mixture of two mass-labelled (<sup>13</sup>C) perfluoroalkylcarboxylic acids and a mass-labelled (<sup>2</sup>H) perfluorooctanesulfonamidoacetic acid. The components and their concentrations are given in Table A.

The mass-labelled perfluoroalkylcarboxylic acids both have chemical purities of >98% and isotopic purities of ≥99%. The mass-labelled perfluorooctanesulfonamidoacetic acid has a chemical purity of >98% and an isotopic purity of ≥98%.

**DOCUMENTATION/ DATA ATTACHED:**

- Table A: Components and Concentrations of the Solution/Mixture
- Figure 1: LC/MS Data (TIC)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

### **INTENDED USE:**

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

### **HAZARDS:**

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

### **SYNTHESIS / CHARACTERIZATION:**

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

### **HOMOGENEITY:**

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

### **UNCERTAINTY:**

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

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

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

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

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

### **TRACEABILITY:**

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

### **EXPIRY DATE / PERIOD OF VALIDITY:**

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

### **LIMITED WARRANTY:**

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

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

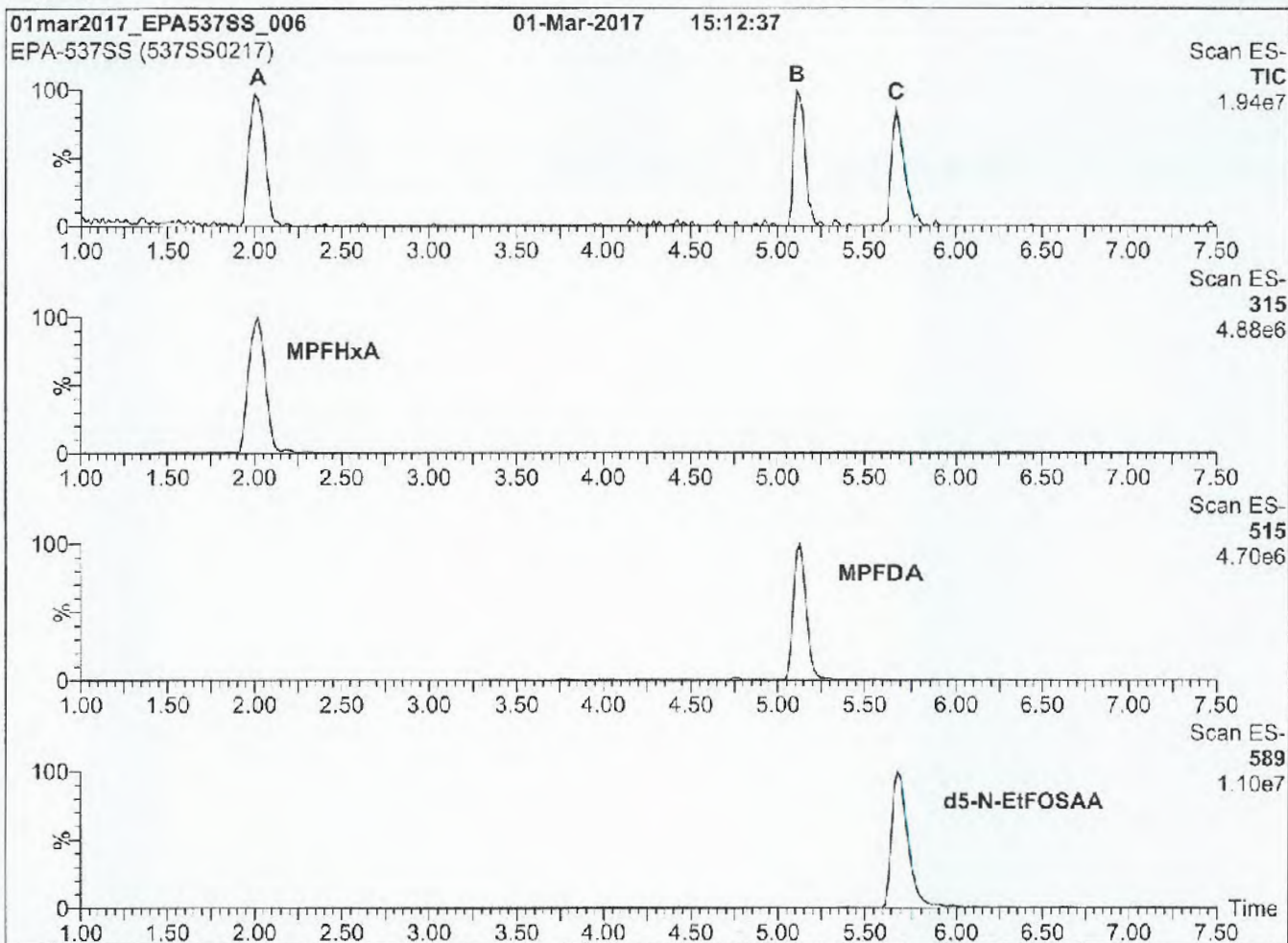
**Table A:** EPA-537SS; Components and Concentrations (ng/ml;  $\pm$  5% in Methanol / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)	Peak Assignment in Figure 1
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]hexanoic acid	MPFHxA	1000	A
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]decanoic acid	MPFDA	1000	B
N-ethyl-d <sub>5</sub> -perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	4000	C

Certified By:   
B.G. Chittim, General Manager

Date: 03/20/2017  
(m/mc/yyyy)

**Figure 1: EPA-537SS; LC/MS Data (Total Ion Current Chromatogram)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min  
 and hold for 1 min before returning  
 to initial conditions in 0.5 min.  
 Time: 10 min

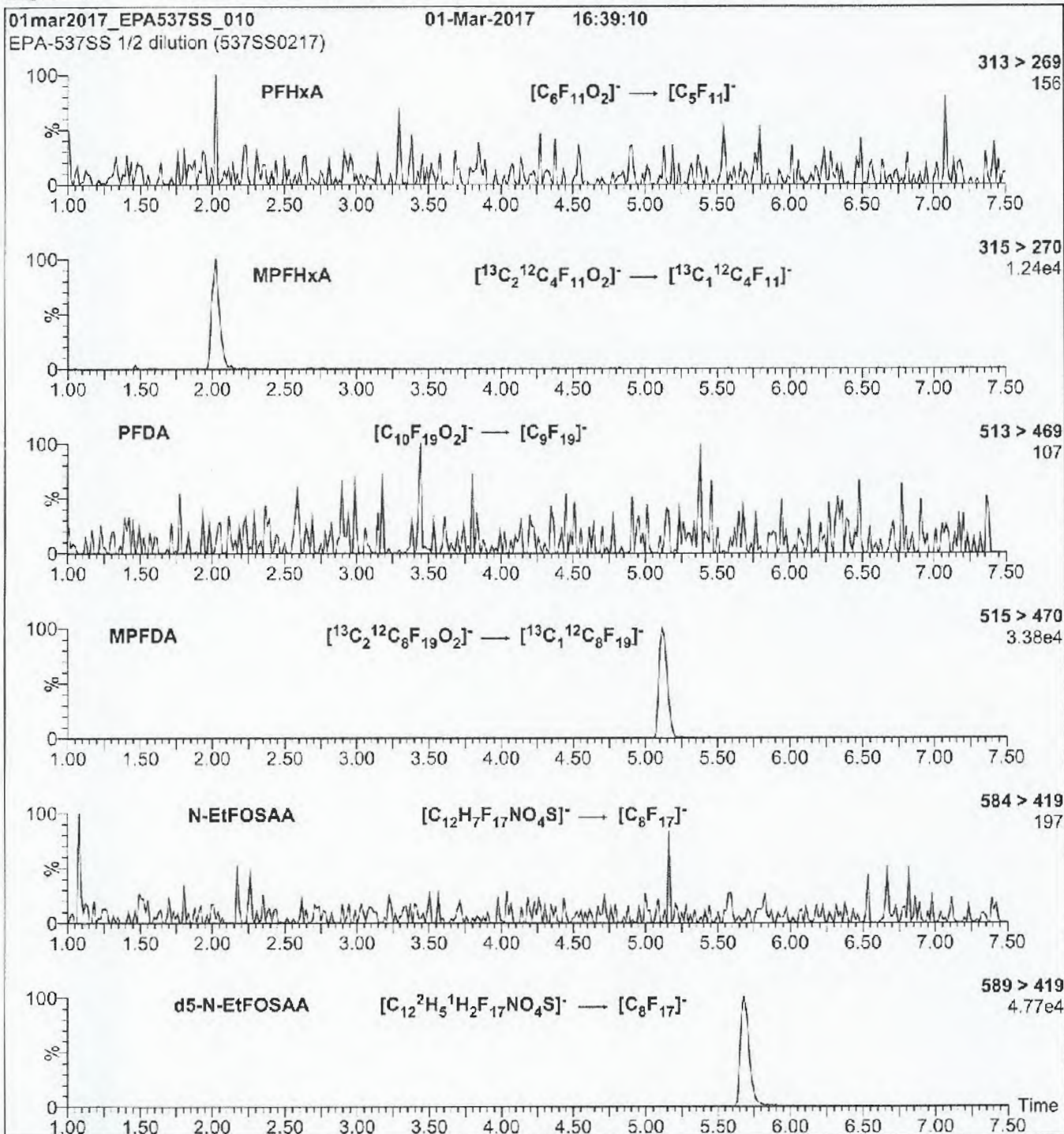
**Flow:** 300  $\mu$ l/min

**MS Parameters**

**Experiment:** Full Scan (150 - 850 amu)

**Source:** Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 25.00  
 Cone Gas Flow (l/hr) = 50  
 Desolvation Gas Flow (l/hr) = 750

**Figure 2: EPA-537SS; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (EPA-537SS)

Mobile phase: Same as Figure 1

Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.20e-3

Collision Energy (eV) = 9-40 (variable)

Table 2: Comparison of the Proposed Treatment

Parameter	Proposed Treatment	Current Treatment
1.0	1.0	1.0
2.0	2.0	2.0
3.0	3.0	3.0
4.0	4.0	4.0
5.0	5.0	5.0
6.0	6.0	6.0
7.0	7.0	7.0
8.0	8.0	8.0
9.0	9.0	9.0
10.0	10.0	10.0
11.0	11.0	11.0
12.0	12.0	12.0
13.0	13.0	13.0
14.0	14.0	14.0
15.0	15.0	15.0
16.0	16.0	16.0
17.0	17.0	17.0
18.0	18.0	18.0
19.0	19.0	19.0
20.0	20.0	20.0
21.0	21.0	21.0
22.0	22.0	22.0
23.0	23.0	23.0
24.0	24.0	24.0
25.0	25.0	25.0
26.0	26.0	26.0
27.0	27.0	27.0
28.0	28.0	28.0
29.0	29.0	29.0
30.0	30.0	30.0
31.0	31.0	31.0
32.0	32.0	32.0
33.0	33.0	33.0
34.0	34.0	34.0
35.0	35.0	35.0
36.0	36.0	36.0
37.0	37.0	37.0
38.0	38.0	38.0
39.0	39.0	39.0
40.0	40.0	40.0
41.0	41.0	41.0
42.0	42.0	42.0
43.0	43.0	43.0
44.0	44.0	44.0
45.0	45.0	45.0
46.0	46.0	46.0
47.0	47.0	47.0
48.0	48.0	48.0
49.0	49.0	49.0
50.0	50.0	50.0
51.0	51.0	51.0
52.0	52.0	52.0
53.0	53.0	53.0
54.0	54.0	54.0
55.0	55.0	55.0
56.0	56.0	56.0
57.0	57.0	57.0
58.0	58.0	58.0
59.0	59.0	59.0
60.0	60.0	60.0
61.0	61.0	61.0
62.0	62.0	62.0
63.0	63.0	63.0
64.0	64.0	64.0
65.0	65.0	65.0
66.0	66.0	66.0
67.0	67.0	67.0
68.0	68.0	68.0
69.0	69.0	69.0
70.0	70.0	70.0
71.0	71.0	71.0
72.0	72.0	72.0
73.0	73.0	73.0
74.0	74.0	74.0
75.0	75.0	75.0
76.0	76.0	76.0
77.0	77.0	77.0
78.0	78.0	78.0
79.0	79.0	79.0
80.0	80.0	80.0
81.0	81.0	81.0
82.0	82.0	82.0
83.0	83.0	83.0
84.0	84.0	84.0
85.0	85.0	85.0
86.0	86.0	86.0
87.0	87.0	87.0
88.0	88.0	88.0
89.0	89.0	89.0
90.0	90.0	90.0
91.0	91.0	91.0
92.0	92.0	92.0
93.0	93.0	93.0
94.0	94.0	94.0
95.0	95.0	95.0
96.0	96.0	96.0
97.0	97.0	97.0
98.0	98.0	98.0
99.0	99.0	99.0
100.0	100.0	100.0



**Analytical Standard Record**

**Vista Analytical Laboratory**

**17D1705**

**Parent Standards used in this standard:**

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
17D1702	PFAC-24PAR Natives	17-Apr-17	Jamie C. Stockman	11-Dec-21	17-Apr-17 10:23 by JCS	4

Description:	537 DW NS	Expires:	17-Apr-18
Standard Type:	Analyte Spike	Prepared:	19-Apr-17
Solvent:	1%H2O in MeOH	Prepared By:	Jamie C. Stockman
Final Volume (mls):	8	Department:	LCMS
Vials:	1	Last Edit:	19-Apr-17 09:11 by JCS

Analyte	CAS Number	Concentration	Units
PFHpS	375-92-8	0.95	ug/mL
6:2 FTS	27619-97-2	0.95	ug/mL
8:2 FTS	70887-84-2	0.96	ug/mL
EtFOSAA		1	ug/mL
MeFOSAA		1	ug/mL
PFBA	375-22-4	1	ug/mL
PFBS	375-73-5	0.885	ug/mL
PFDA	335-76-2	1	ug/mL
PFDoA	307-55-1	1	ug/mL
4:2 FTS		0.935	ug/mL
PFHpA	375-85-9	1	ug/mL
PFUnA	2058-94-8	1	ug/mL
PFHxA	307-24-4	1	ug/mL
PFHxS	355-46-4	0.91	ug/mL
PFNA	375-95-1	1	ug/mL
PFOA	335-67-1	1	ug/mL
PFOS	1763-23-1	0.925	ug/mL
PFOSA	754-91-6	1	ug/mL
PFPeA	2706-90-3	1	ug/mL
PFTeDA		1	ug/mL
PFTTrDA	72629-94-8	1	ug/mL
PFDS	335-77-3	0.965	ug/mL



17D1702

PFAC-24PAR x4

**Native Per- and Poly-fluoroalkyl Substance  
Precision and Recovery Standard Solution**

**PRODUCT CODE:** PFAC-24PAR  
**LOT NUMBER:** PFAC24PAR1216  
**SOLVENT(S):** Methanol / Isopropanol (4%) / Water (<1%)  
**DATE PREPARED:** (mm/dd/yyyy) 12/09/2016  
**LAST TESTED:** (mm/dd/yyyy) 12/11/2016  
**EXPIRY DATE:** (mm/dd/yyyy) 12/11/2021  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DESCRIPTION:**

PFAC-24PAR is a solution/mixture of eleven native linear perfluoroalkylcarboxylic acids (C<sub>4</sub>-C<sub>14</sub>), seven native perfluoroalkylsulfonates (C<sub>4</sub>, C<sub>5</sub>, C<sub>7</sub>, C<sub>8</sub>, and C<sub>10</sub> linear; C<sub>6</sub> and C<sub>8</sub> linear and branched), three native telomer sulfonates (4:2, 6:2, and 8:2), two native perfluorooctanesulfonamidoacetic acids, and perfluoro-1-octanesulfonamide. The components and their concentrations are given in Table A.

The individual native perfluoroalkylcarboxylic acids, native perfluoroalkylsulfonates, native telomer sulfonates, native perfluorooctanesulfonamidoacetic acids, and perfluoro-1-octanesulfonamide all have chemical purities of >98%.

**DOCUMENTATION/ DATA ATTACHED:**

- Table A: Components and Concentrations of the Solution/Mixture
- Table B: Isomeric Components and Percent Composition of PFHxSK
- Table C: Isomeric Components and Percent Composition of PFOSK
- Figure 1: LC/MS Data (SIR)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

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

#### **INTENDED USE:**

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

#### **HAZARDS:**

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

#### **SYNTHESIS / CHARACTERIZATION:**

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

#### **HOMOGENEITY:**

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

#### **UNCERTAINTY:**

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

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

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

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

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

#### **TRACEABILITY:**

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

#### **EXPIRY DATE / PERIOD OF VALIDITY:**

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

#### **LIMITED WARRANTY:**

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

#### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: PFAC-24PAR; Components and Concentrations**  
(ng/ml, ± 5% in Methanol / Isopropanol (4%) / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Perfluoro-n-butanoic acid	PFBA	2000		A
Perfluoro-n-pentanoic acid	PFPeA	2000		B
Perfluoro-n-hexanoic acid	PFHxA	2000		E
Perfluoro-n-heptanoic acid	PFHpA	2000		G
Perfluoro-n-octanoic acid	PFOA	2000		K
Perfluoro-n-nonanoic acid	PFNA	2000		M
Perfluoro-n-decanoic acid	PFDA	2000		Q
Perfluoro-n-undecanoic acid	PFUdA	2000		U
Perfluoro-n-dodecanoic acid	PFDoA	2000		X
Perfluoro-n-tridecanoic acid	PFTrDA	2000		Y
Perfluoro-n-tetradecanoic acid	PFTeDA	2000		Z
Perfluoro-1-octanesulfonamide	FOSA	2000		V
N-methylperfluoro-1-octanesulfonamidoacetic acid	N-MeFOSAA	2000		S
N-ethylperfluoro-1-octanesulfonamidoacetic acid	N-EtFOSAA	2000		T
Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Potassium perfluoro-1-butanefulfonate	L-PFBS	2000	1770	C
Sodium perfluoro-1-pentanesulfonate	L-PFPeS	2000	1880	F
Potassium perfluorohexanesulfonate*	PFHxSK: linear isomer	1620	1480	I
	PFHxSK: ∑ branched isomers	378	344	H
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	2000	1900	L
Potassium perfluorooctanesulfonate**	PFOSK: linear isomer	1580	1460	O
	PFOSK: ∑ branched isomers	422	391	N
Sodium perfluoro-1-nonanesulfonate	L-PFNs	2000	1920	R
Sodium perfluoro-1-decanesulfonate	L-PFDS	2000	1930	W
Sodium 1H,1H,2H,2H-perfluoro-1-hexanesulfonate	4:2FTS	2000	1870	D
Sodium 1H,1H,2H,2H-perfluoro-1-octanesulfonate	6:2FTS	2000	1900	J
Sodium 1H,1H,2H,2H-perfluoro-1-decanesulfonate	8:2FTS	2000	1920	P

\* See Table B for percent composition of linear and branched PFHxSK isomers.

\*\* See Table C for percent composition of linear and branched PFOSK isomers.

**Table B: PFHxSK; Isomeric Components and Percent Composition (by <sup>19</sup>F-NMR)\***

Isomer	Name	Structure	Percent Composition by <sup>19</sup> F-NMR	
1	Potassium perfluoro-1-hexanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>	81.1	81.1
2	Potassium 1-trifluoromethylperfluoropentanesulfonate**	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF(SO <sub>3</sub> <sup>-</sup> )K <sup>+</sup>   CF <sub>3</sub>	2.9	18.9
3	Potassium 2-trifluoromethylperfluoropentanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF(CF <sub>3</sub> )SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	1.4	
4	Potassium 3-trifluoromethylperfluoropentanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF(CF <sub>3</sub> )CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	5.0	
5	Potassium 4-trifluoromethylperfluoropentanesulfonate	CF <sub>3</sub> CF(CF <sub>3</sub> )CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	8.9	
6	Potassium 3,3-di(trifluoromethyl)perfluorobutanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CCF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.2	
7	Other Unidentified Isomers		0.5	

\* Percent of total perfluorohexanesulfonate isomers only.  
 \*\* Systematic Name: Potassium perfluorohexane-2-sulfonate.

**Table C: PFOSK; Isomeric Components and Percent Composition (by <sup>19</sup>F-NMR)\***

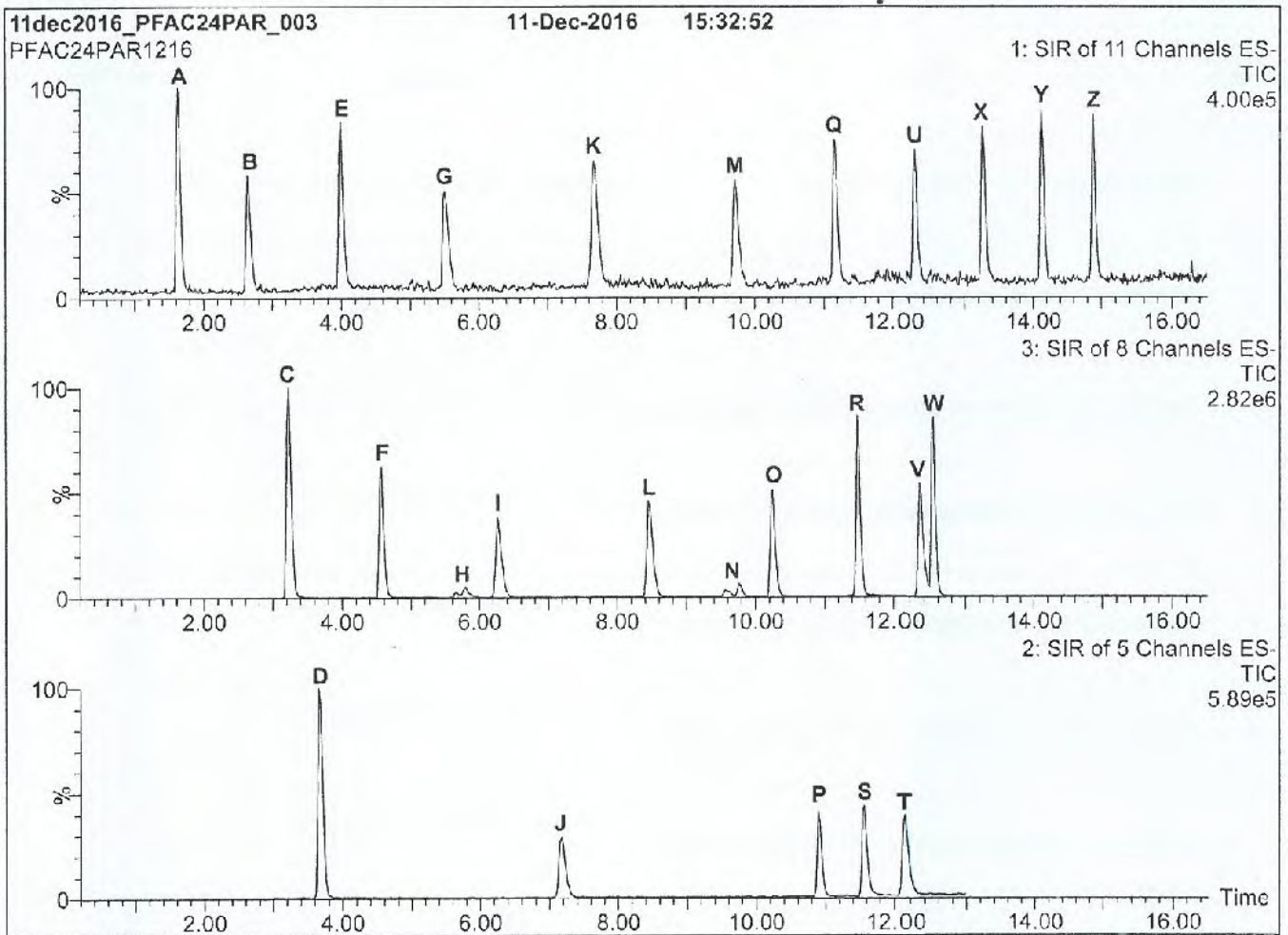
Isomer	Name	Structure	Percent Composition by <sup>19</sup> F-NMR	
1	Potassium perfluoro-1-octanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>	78.8	78.8
2	Potassium 1-trifluoromethylperfluoroheptanesulfonate**	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF(SO <sub>3</sub> <sup>-</sup> )K <sup>+</sup>   CF <sub>3</sub>	1.2	21.1
3	Potassium 2-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF(CF <sub>3</sub> )SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.6	
4	Potassium 3-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF(CF <sub>3</sub> )CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	1.9	
5	Potassium 4-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF(CF <sub>3</sub> )CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	2.2	
6	Potassium 5-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF(CF <sub>3</sub> )CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	4.5	
7	Potassium 6-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF(CF <sub>3</sub> )CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	10.0	
8	Potassium 5,5-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CCF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.2	
9	Potassium 4,4-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CF <sub>2</sub> CCF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.03	
10	Potassium 4,5-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CF(CF <sub>3</sub> )CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.4	
11	Potassium 3,5-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CF(CF <sub>3</sub> )CF(CF <sub>3</sub> )CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.07	

\* Percent of total perfluorooctanesulfonate isomers only.  
 \*\* Systematic Name: Potassium perfluorooctane-2-sulfonate.

Certified By:   
 B.G. Chittim

Date: 12/13/2016  
(mm/dd/yyyy)

**Figure 1: PFAC-24PAR; LC/MS Data (Total Ion Current Chromatogram; SIR)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 40% (80:20 MeOH:ACN) / 60% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 55% organic over 3.5 min.  
 Ramp to 70% organic over 6.5 min.  
 Ramp to 85% organic over 5 min and hold for  
 1 min before returning to initial conditions in 0.5 min.  
 Time: 17 min

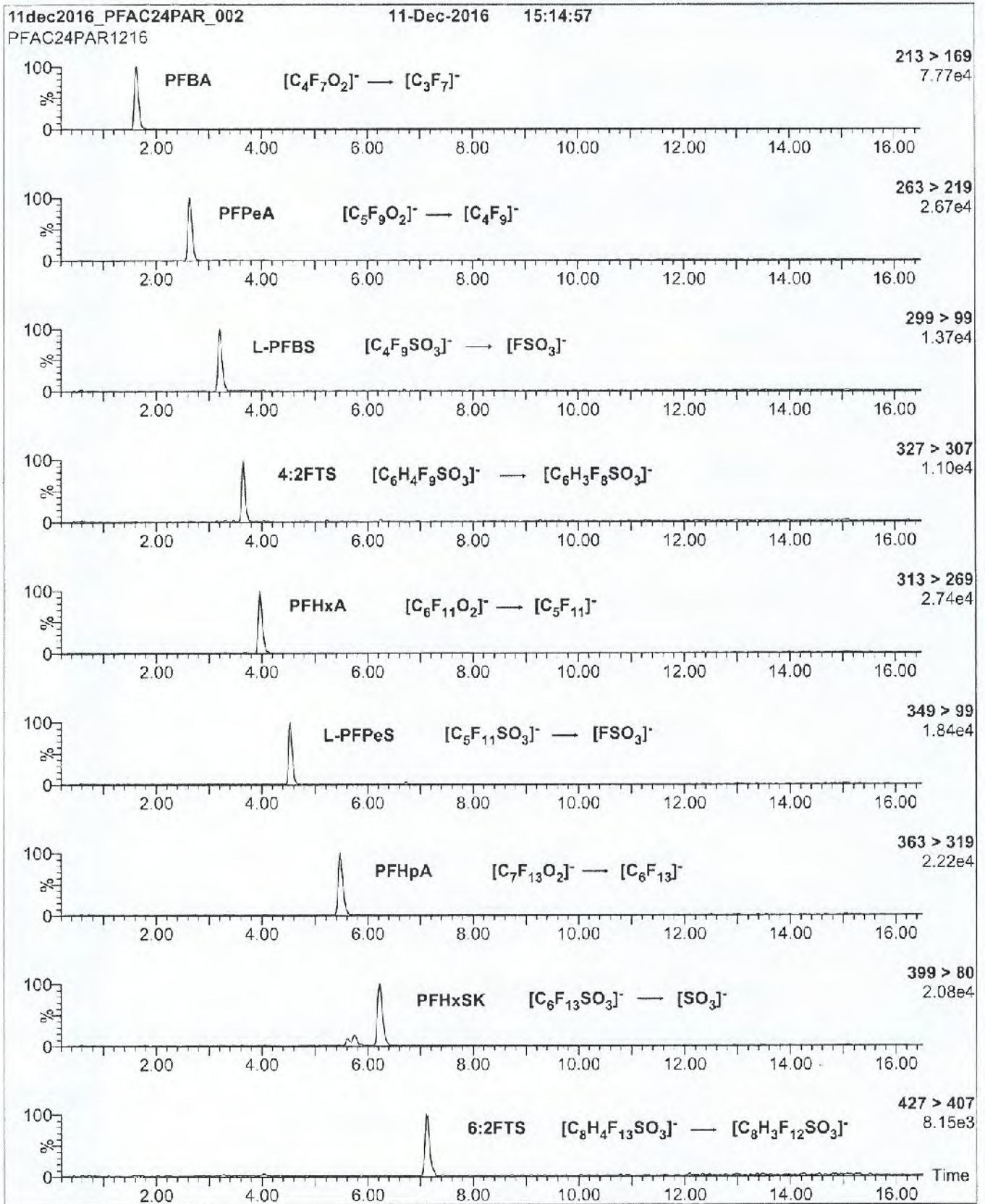
Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: SIR

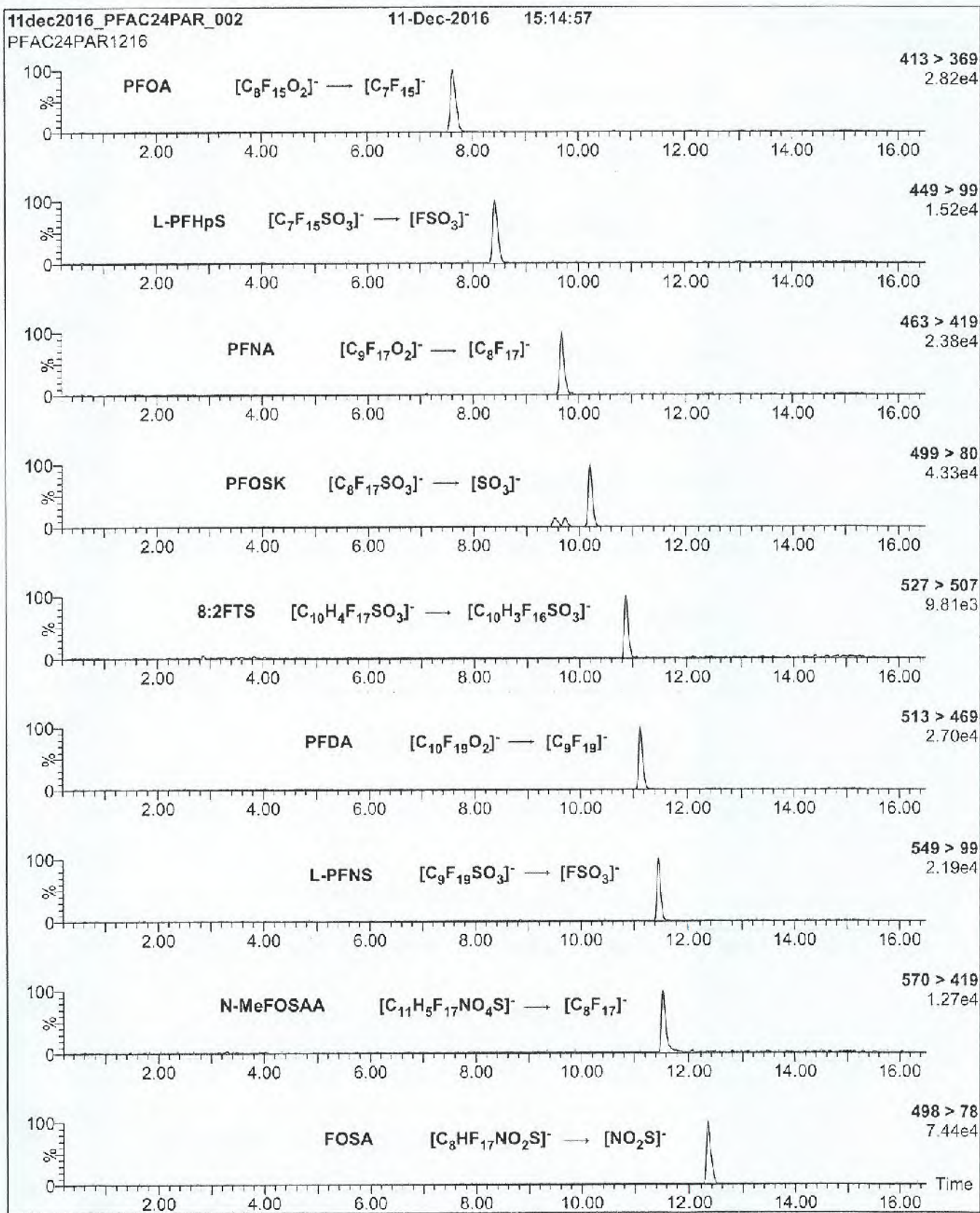
Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = variable (10-70)  
 Cone Gas Flow (l/hr) = 50  
 Desolvation Gas Flow (l/hr) = 750

**Figure 2: PFAC-24PAR; LC/MS/MS Data (Selected MRM Transitions)**

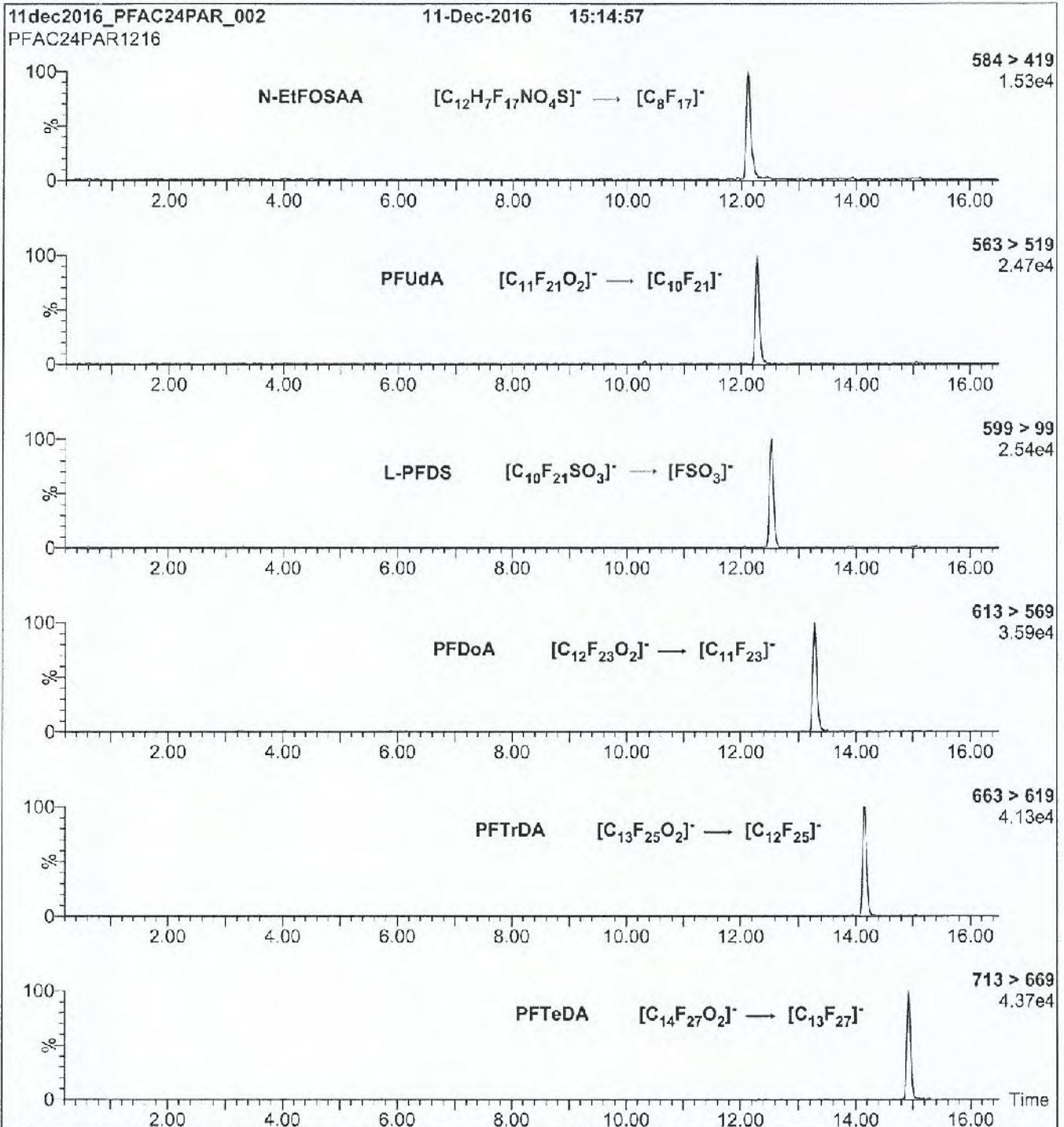




**Figure 2: PFAC-24PAR; LC/MS/MS Data (Selected MRM Transitions)**



**Figure 2: PFAC-24PAR; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFAC-24PAR)

Mobile phase: Same as Figure 1

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.43e-3

Collision Energy (eV) = 8-50 (variable)

Station	Station	Station	Station	Station	Station	Station	Station	Station	Station
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

**Analytical Standard Record**

**Vista Analytical Laboratory**

**17D1706**

**Parent Standards used in this standard:**

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
17D1703	EPA-537IS (RS)	17-Apr-17	Jamie C. Stockman	29-Oct-21	17-Apr-17 11:07 by JCS	3

Description: 537 IS (RS) Expires: 17-Apr-18  
Standard Type: Reagent Prepared: 19-Apr-17  
Solvent: 1%H2O/MeOH Prepared By: Jamie C. Stockman  
Final Volume (mls): 15 Department: LCMS  
Vials: 1 Last Edit: 19-Apr-17 09:11 by JCS

Analyte	CAS Number	Concentration	Units
d3-MeFOSAA		0.8	ug/mL
13C4-PFOS		0.574	ug/mL
13C2-PFOA		0.2	ug/mL



**EPA-537IS** x3

Internal Standard  
Primary Dilution Standard

17D1703

**PRODUCT CODE:** EPA-537IS  
**LOT NUMBER:** 537IS1016  
**SOLVENT(S):** Methanol / Water (<1%)  
**DATE PREPARED:** (mm/dd/yyyy) 10/25/2016  
**LAST TESTED:** (mm/dd/yyyy) 10/29/2016  
**EXPIRY DATE:** (mm/dd/yyyy) 10/29/2021  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DESCRIPTION:**

EPA-537IS is a solution/mixture of a mass-labelled (<sup>13</sup>C) perfluoroalkylcarboxylic acid, a mass-labelled (<sup>13</sup>C) perfluoroalkylsulfonate, and a mass-labelled (<sup>2</sup>H) perfluorooctanesulfonamidoacetic acid. The components and their concentrations are given in Table A.

The mass-labelled perfluoroalkylcarboxylic acid and the mass-labelled perfluoroalkylsulfonate both have chemical purities of >98% and isotopic purities of ≥99%. The mass-labelled perfluorooctanesulfonamidoacetic acid has a chemical purity of >98% and an isotopic purity of ≥98%.

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture  
Figure 1: LC/MS Data (TIC)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

### **INTENDED USE:**

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

### **HAZARDS:**

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

### **SYNTHESIS / CHARACTERIZATION:**

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

### **HOMOGENEITY:**

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

### **UNCERTAINTY:**

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

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

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

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

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

### **TRACEABILITY:**

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

### **EXPIRY DATE / PERIOD OF VALIDITY:**

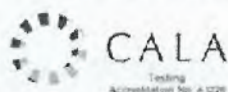
Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

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

### **QUALITY MANAGEMENT:**

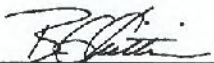
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [Info@well-labs.com](mailto:Info@well-labs.com)\*\*

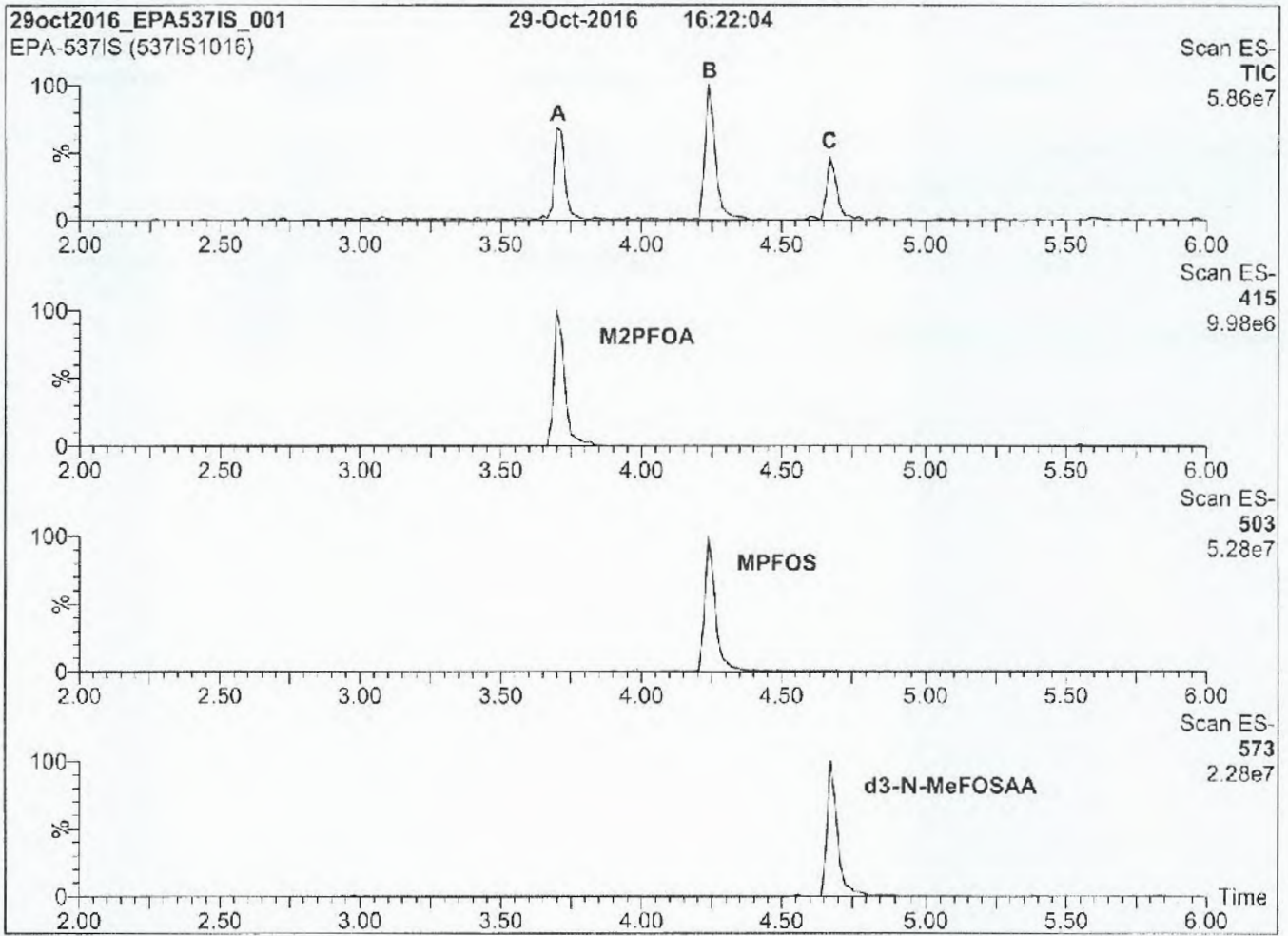
**Table A:** EPA-537IS; Components and Concentrations (ng/ml; ± 5% in Methanol / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]octanoic acid	M2PFOA	1000		A
N-methyl-d <sub>3</sub> -perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	4000		C
Sodium perfluoro-1-[1,2,3,4- <sup>13</sup> C <sub>4</sub> ]octanesulfonate	MPFOS	3000	2870	B

Certified By:   
B.G. Chittim

Date: 11/14/2016  
(mm/dd/yyyy)

**Figure 1: EPA-537IS; LC/MS Data (Total Ion Current Chromatogram)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>2</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
Start: 40% (80:20 MeOH:ACN) / 60% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 7 min  
and hold for 2 min before returning  
to initial conditions in 0.5 min.  
Time: 10 min

**Flow:** 300  $\mu$ l/min

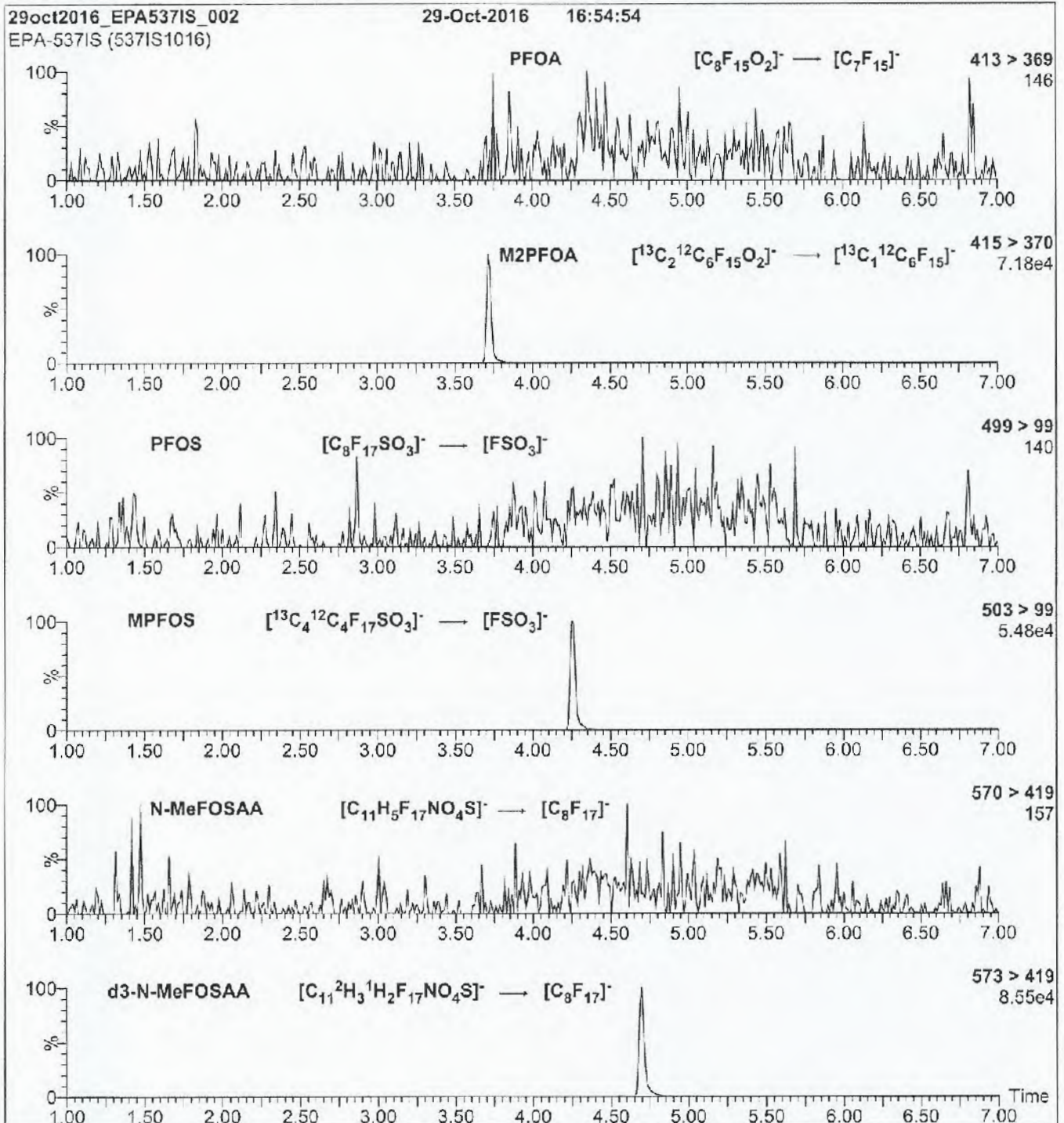
**MS Parameters**

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 25.00  
Cone Gas Flow (l/hr) = 50  
Desolvation Gas Flow (l/hr) = 750



**Figure 2: EPA-537IS; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (EPA-537IS)

Mobile phase: Same as Figure 1

Flow: 300 µl/min

**MS Parameters**

Collision Gas (mbar) = 3.20e-3

Collision Energy (eV) = 11-40 (variable)



"RW02-20170501","EPA Method 537","Initial","1700550-01","Vista","375-73-5","PFBS","9.72","ng/L","U","2.44","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.257","0.001","9.72",""  
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"RW02-20170501","EPA Method 537","Initial","1700550-01","Vista","355-46-4","PFHxS","2.04","ng/L","J","1.72","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.257","0.001","9.72",""  
"RW02-20170501","EPA Method 537","Initial","1700550-01","Vista","335-67-1","PFOA","9.15","ng/L","J","4.15","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.257","0.001","9.72",""  
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"RW02-20170501","EPA Method 537","Initial","1700550-01","Vista","1763-23-1","PFOS","7.54","ng/L","J","1.91","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.257","0.001","9.72",""  
"RW02-20170501","EPA Method 537","Initial","1700550-01","Vista","13C2-PFHxA","13C2-PFHxA","115","%R","","-99","NA","","SURR","115","","-99","NA","YES","100","","","0.257","0.001","-99",""  
"RW02-20170501","EPA Method 537","Initial","1700550-01","Vista","13C2-PFDA","13C2-PFDA","117","%R","","-99","NA","","SURR","117","","-99","NA","YES","100","","","0.257","0.001","-99",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","375-73-5","PFBS","9.69","ng/L","U","2.43","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.258","0.001","9.69",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","375-85-9","PFHpA","9.69","ng/L","U","3.10","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.258","0.001","9.69",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","355-46-4","PFHxS","9.69","ng/L","U","1.72","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.258","0.001","9.69",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","335-67-1","PFOA","9.69","ng/L","U","4.14","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.258","0.001","9.69",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","375-95-1","PFNA","9.69","ng/L","U","3.38","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.258","0.001","9.69",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","1763-23-1","PFOS","9.69","ng/L","U","1.90","LOD","","TRG","","","19.4","LOQ","YES",-99","","","0.258","0.001","9.69",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","13C2-PFHxA","13C2-PFHxA","103","%R","","-99","NA","","SURR","103","","-99","NA","YES","100","","","0.258","0.001","-99",""  
"FRB02-20170501","EPA Method 537","Initial","1700550-02","Vista","13C2-PFDA","13C2-PFDA","106","%R","","-99","NA","","SURR","106","","-99","NA","YES","100","","","0.258","0.001","-99",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","375-73-5","PFBS","9.51","ng/L","U","2.39","LOD","","TRG","","","19.0","LOQ","YES",-99","","","0.263","0.001","9.51",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","375-85-9","PFHpA","9.51","ng/L","U","3.04","LOD","","TRG","","","19.0","LOQ","YES",-99","","","0.263","0.001","9.51",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","355-46-4","PFHxS","7.16","ng/L","J","1.68","LOD","","TRG","","","19.0","LOQ","YES",-99","","","0.263","0.001","9.51",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","335-67-1","PFOA","4.13","ng/L","J","4.06","LOD","","TRG","","","19.0","LOQ","YES",-99","","","0.263","0.001","9.51",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","375-95-1","PFNA","5.08","ng/L","J","3.32","LOD","","TRG","","","19.0","LOQ","YES",-99","","","0.263","0.001","9.51",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","1763-23-1","PFOS","11.0","ng/L","J","1.86","LOD","","TRG","","","19.0","LOQ","YES",-99","","","0.263","0.001","9.51",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","13C2-PFHxA","13C2-PFHxA","109","%R","","-99","NA","","SURR","109","","-99","NA","YES","100","","","0.263","0.001","-99",""  
"RW12-20170501","EPA Method 537","Initial","1700550-03","Vista","13C2-PFDA","13C2-PFDA","114","%R","","-99","NA","","SURR","114","","-99","NA","YES","100","","","0.263","0.001","-99",""  
"FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","375-73-5","PFBS","9.44","ng/L","U","2.37","LOD","","TRG","","","18.9","LOQ","YES",-99","","","0.265","0.001","9.44",""  
"FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","375-85-9","PFHpA","9.44","ng/L","U","3.02","LOD","","TRG","","","18.9","LOQ","YES",-99","","","0.265","0.001","9.44",""  
"FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","355-46-

4","PFHxS","9.44","ng/L","U","1.67","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.44","","FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","335-67-1","PFOA","9.44","ng/L","U","4.03","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.44","","FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","375-95-1","PFNA","9.44","ng/L","U","3.30","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.44","","FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","1763-23-1","PFOS","9.44","ng/L","U","1.85","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.44","","FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","13C2-PFHxA","13C2-PFHxA","109","%R","","-99","NA","","SURR","109","","-99","NA","YES","100","","0.265","0.001",-99","","FRB12-20170501","EPA Method 537","Initial","1700550-04","Vista","13C2-PFDA","13C2-PFDA","108","%R","","-99","NA","","SURR","108","","-99","NA","YES","100","","0.265","0.001",-99","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","375-73-5","PFBS","10.2","ng/L","U","2.56","LOD","","TRG","","","20.4","LOQ","YES",-99","","0.246","0.001","10.2","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","375-85-9","PFHpA","10.2","ng/L","U","3.26","LOD","","TRG","","","20.4","LOQ","YES",-99","","0.246","0.001","10.2","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","355-46-4","PFHxS","10.2","ng/L","U","1.80","LOD","","TRG","","","20.4","LOQ","YES",-99","","0.246","0.001","10.2","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","335-67-1","PFOA","10.2","ng/L","U","4.35","LOD","","TRG","","","20.4","LOQ","YES",-99","","0.246","0.001","10.2","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","375-95-1","PFNA","10.2","ng/L","U","3.55","LOD","","TRG","","","20.4","LOQ","YES",-99","","0.246","0.001","10.2","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","1763-23-1","PFOS","10.2","ng/L","U","2.00","LOD","","TRG","","","20.4","LOQ","YES",-99","","0.246","0.001","10.2","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","13C2-PFHxA","13C2-PFHxA","96.4","%R","","-99","NA","","SURR","96.4","","-99","NA","YES","100","","0.246","0.001",-99","","RW13-20170501","EPA Method 537","Initial","1700550-05","Vista","13C2-PFDA","13C2-PFDA","97.3","%R","","-99","NA","","SURR","97.3","","-99","NA","YES","100","","0.246","0.001",-99","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","375-73-5","PFBS","9.45","ng/L","U","2.37","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.45","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","375-85-9","PFHpA","9.45","ng/L","U","3.02","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.45","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","355-46-4","PFHxS","9.45","ng/L","U","1.67","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.45","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","335-67-1","PFOA","9.45","ng/L","U","4.03","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.45","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","375-95-1","PFNA","9.45","ng/L","U","3.30","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.45","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","1763-23-1","PFOS","9.45","ng/L","U","1.85","LOD","","TRG","","","18.9","LOQ","YES",-99","","0.265","0.001","9.45","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","13C2-PFHxA","13C2-PFHxA","104","%R","","-99","NA","","SURR","104","","-99","NA","YES","100","","0.265","0.001",-99","","FRB13-20170501","EPA Method 537","Initial","1700550-06","Vista","13C2-PFDA","13C2-PFDA","104","%R","","-99","NA","","SURR","104","","-99","NA","YES","100","","0.265","0.001",-99","","RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","375-73-5","PFBS","9.61","ng/L","U","2.41","LOD","","TRG","","","19.2","LOQ","YES",-99","","0.260","0.001","9.61","","RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","375-85-9","PFHpA","3.71","ng/L","J","3.08","LOD","","TRG","","","19.2","LOQ","YES",-99","","0.260","0.001","9.61","","RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","355-46-4","PFHxS","13.3","ng/L","J","1.70","LOD","","TRG","","","19.2","LOQ","YES",-99","","0.260","0.001","9.61","","RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","335-67-1","PFOA","9.16","ng/L","J","4.10","LOD","","TRG","","","19.2","LOQ","YES",-99","","0.260","0.001","9.61","","RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","375-95-1","PFNA","4.85","ng/L","J","3.35","LOD","","TRG","","","19.2","LOQ","YES",-99","","0.260","0.001","9.61","","RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","1763-23-

1","PFOS","14.9","ng/L","J","1.88","LOD","","TRG","","","19.2","LOQ","YES",-99","","0.260","0.001","9.61","","  
"RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","13C2-PFHxA","13C2-  
PFHxA","101","%R","","-99","NA","","SURR","101","","-99","NA","YES","100","","0.260","0.001",-99","","  
"RW13G-20170501","EPA Method 537","Initial","1700550-07","Vista","13C2-PFDA","13C2-  
PFDA","113","%R","","-99","NA","","SURR","113","","-99","NA","YES","100","","0.260","0.001",-99","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","375-73-  
5","PFBS","9.66","ng/L","U","2.42","LOD","","TRG","","","19.3","LOQ","YES",-99","","0.259","0.001","9.66","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","375-85-  
9","PFHpA","9.66","ng/L","U","3.09","LOD","","TRG","","","19.3","LOQ","YES",-99","","0.259","0.001","9.66","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","355-46-  
4","PFHxS","9.66","ng/L","U","1.71","LOD","","TRG","","","19.3","LOQ","YES",-99","","0.259","0.001","9.66","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","335-67-  
1","PFOA","9.66","ng/L","U","4.12","LOD","","TRG","","","19.3","LOQ","YES",-99","","0.259","0.001","9.66","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","375-95-  
1","PFNA","9.66","ng/L","U","3.37","LOD","","TRG","","","19.3","LOQ","YES",-99","","0.259","0.001","9.66","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","1763-23-  
1","PFOS","9.66","ng/L","U","1.89","LOD","","TRG","","","19.3","LOQ","YES",-99","","0.259","0.001","9.66","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","13C2-PFHxA","13C2-  
PFHxA","106","%R","","-99","NA","","SURR","106","","-99","NA","YES","100","","0.259","0.001",-99","","  
"FRB13G-20170501","EPA Method 537","Initial","1700550-08","Vista","13C2-PFDA","13C2-  
PFDA","112","%R","","-99","NA","","SURR","112","","-99","NA","YES","100","","0.259","0.001",-99","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","375-73-  
5","PFBS","4.51","ng/L","J","2.36","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","375-85-  
9","PFHpA","9.41","ng/L","U","3.01","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","355-46-  
4","PFHxS","2.54","ng/L","J","1.67","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","335-67-  
1","PFOA","10.0","ng/L","J","4.02","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","375-95-  
1","PFNA","9.41","ng/L","U","3.28","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","1763-23-  
1","PFOS","5.96","ng/L","J","1.84","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","13C2-PFHxA","13C2-  
PFHxA","117","%R","","-99","NA","","SURR","117","","-99","NA","YES","100","","0.266","0.001",-99","","  
"RW09-20170501","EPA Method 537","Initial","1700550-09","Vista","13C2-PFDA","13C2-  
PFDA","121","%R","","-99","NA","","SURR","121","","-99","NA","YES","100","","0.266","0.001",-99","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","375-73-  
5","PFBS","9.41","ng/L","U","2.36","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","375-85-  
9","PFHpA","9.41","ng/L","U","3.01","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","355-46-  
4","PFHxS","9.41","ng/L","U","1.67","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","335-67-  
1","PFOA","9.41","ng/L","U","4.02","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","375-95-  
1","PFNA","9.41","ng/L","U","3.28","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","1763-23-  
1","PFOS","9.41","ng/L","U","1.84","LOD","","TRG","","","18.8","LOQ","YES",-99","","0.266","0.001","9.41","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","13C2-PFHxA","13C2-  
PFHxA","117","%R","","-99","NA","","SURR","117","","-99","NA","YES","100","","0.266","0.001",-99","","  
"FRB09-20170501","EPA Method 537","Initial","1700550-10","Vista","13C2-PFDA","13C2-  
PFDA","119","%R","","-99","NA","","SURR","119","","-99","NA","YES","100","","0.266","0.001",-99","","  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","375-73-

5","PFBS","10.0","ng/L","U","2.51","LOD","","TRG","","","20.0","LOQ","YES","-99","","0.250","0.001","10.0",""  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","375-85-  
9","PFHpA","10.0","ng/L","U","3.20","LOD","","TRG","","","20.0","LOQ","YES","-99","","0.250","0.001","10.0",""  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","355-46-  
4","PFHxS","10.0","ng/L","U","1.77","LOD","","TRG","","","20.0","LOQ","YES","-99","","0.250","0.001","10.0",""  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","335-67-  
1","PFOA","10.0","ng/L","U","4.27","LOD","","TRG","","","20.0","LOQ","YES","-99","","0.250","0.001","10.0",""  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","375-95-  
1","PFNA","10.0","ng/L","U","3.49","LOD","","TRG","","","20.0","LOQ","YES","-99","","0.250","0.001","10.0",""  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","1763-23-  
1","PFOS","10.0","ng/L","U","1.96","LOD","","TRG","","","20.0","LOQ","YES","-99","","0.250","0.001","10.0",""  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","13C2-PFHxA","13C2-  
PFHxA","103","%R","","-99","NA","","SUR","103","","-99","NA","YES","100","","0.250","0.001","-99",""  
"B7D0150-BLK1","EPA Method 537","Initial","B7D0150-BLK1","Vista","13C2-PFDA","13C2-  
PFDA","102","%R","","-99","NA","","SUR","102","","-99","NA","YES","100","","0.250","0.001","-99",""  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","375-73-  
5","PFBS","18.7","ng/L","J","2.51","LOD","","TRG","106","","20.0","LOQ","YES","17.7","","0.250","0.001","10.0",""  
"  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","375-85-  
9","PFHpA","20.5","ng/L","","3.20","LOD","","TRG","102","","20.0","LOQ","YES","20.0","","0.250","0.001","10.0",""  
"  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","355-46-  
4","PFHxS","18.1","ng/L","J","1.77","LOD","","TRG","99.1","","20.0","LOQ","YES","18.2","","0.250","0.001","10.0"  
"  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","335-67-  
1","PFOA","21.7","ng/L","","4.27","LOD","","TRG","109","","20.0","LOQ","YES","20.0","","0.250","0.001","10.0",""  
"  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","375-95-  
1","PFNA","20.1","ng/L","","3.49","LOD","","TRG","100","","20.0","LOQ","YES","20.0","","0.250","0.001","10.0",""  
"  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","1763-23-  
1","PFOS","22.3","ng/L","","1.96","LOD","","TRG","121","","20.0","LOQ","YES","18.5","","0.250","0.001","10.0",""  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","13C2-PFHxA","13C2-  
PFHxA","99.1","%R","","-99","NA","","SUR","99.1","","-99","NA","YES","100","","0.250","0.001","-99",""  
"B7D0150-BS1","EPA Method 537","Initial","B7D0150-BS1","Vista","13C2-PFDA","13C2-  
PFDA","101","%R","","-99","NA","","SUR","101","","-99","NA","YES","100","","0.250","0.001","-99",""  
"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","375-73-  
5","PFBS","22.1","ng/L","","2.38","LOD","","TRG","121","","18.9","LOQ","YES","16.7","RW02-  
20170501","0.264","0.001","9.47",""  
"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","375-85-  
9","PFHpA","19.3","ng/L","","3.03","LOD","","TRG","93.5","","18.9","LOQ","YES","18.9","RW02-  
20170501","0.264","0.001","9.47",""  
"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","355-46-  
4","PFHxS","23.3","ng/L","","1.68","LOD","","TRG","123","","18.9","LOQ","YES","17.3","RW02-  
20170501","0.264","0.001","9.47",""  
"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","335-67-  
1","PFOA","24.0","ng/L","","4.05","LOD","","TRG","78.6","","18.9","LOQ","YES","18.9","RW02-  
20170501","0.264","0.001","9.47",""  
"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","375-95-  
1","PFNA","17.7","ng/L","J","3.31","LOD","","TRG","89.8","","18.9","LOQ","YES","18.9","RW02-  
20170501","0.264","0.001","9.47",""  
"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","1763-23-  
1","PFOS","25.3","ng/L","","1.86","LOD","","TRG","101","","18.9","LOQ","YES","17.5","RW02-  
20170501","0.264","0.001","9.47",""

"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","13C2-PFHxA","13C2-PFHxA","110","%R","",-99,"NA","","SUR","110","",-99,"NA","YES","100","RW02-20170501","0.264","0.001","-99",""

"B7D0150-MS1","EPA Method 537","Initial","B7D0150-MS1","Vista","13C2-PFDA","13C2-PFDA","82.0","%R","",-99,"NA","","SUR","82.0","",-99,"NA","YES","100","RW02-20170501","0.264","0.001","-99",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","375-73-5","PFBS","23.5","ng/L","","2.46","LOD","","TRG","125","3.25","19.6","LOQ","YES","17.3","RW02-20170501","0.255","0.001","9.79",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","375-85-9","PFHpA","19.2","ng/L","J","3.13","LOD","","TRG","89.6","4.26","19.6","LOQ","YES","19.6","RW02-20170501","0.255","0.001","9.79",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","355-46-4","PFHxS","24.7","ng/L","","1.73","LOD","","TRG","127","3.20","19.6","LOQ","YES","17.9","RW02-20170501","0.255","0.001","9.79",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","335-67-1","PFOA","23.6","ng/L","","4.18","LOD","","TRG","73.7","6.43","19.6","LOQ","YES","19.6","RW02-20170501","0.255","0.001","9.79",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","375-95-1","PFNA","17.9","ng/L","J","3.42","LOD","","TRG","87.6","2.48","19.6","LOQ","YES","19.6","RW02-20170501","0.255","0.001","9.79",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","1763-23-1","PFOS","25.3","ng/L","","1.92","LOD","","TRG","98.1","2.91","19.6","LOQ","YES","18.1","RW02-20170501","0.255","0.001","9.79",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","13C2-PFHxA","13C2-PFHxA","109","%R","",-99,"NA","","SUR","109","",-99,"NA","YES","100","RW02-20170501","0.255","0.001","-99",""

"B7D0150-MSD1","EPA Method 537","Initial","B7D0150-MSD1","Vista","13C2-PFDA","13C2-PFDA","89.4","%R","",-99,"NA","","SUR","89.4","",-99,"NA","YES","100","RW02-20170501","0.255","0.001","-99",""

"NAWC Trenton, NJ","NAWC Trenton, NJ","RW02-20170501","05/01/2017 10:25","DW","1700550-01","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 13:19","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00",""

"NAWC Trenton, NJ","NAWC Trenton, NJ","FRB02-20170501","05/01/2017 10:20","DW","1700550-02","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 13:32","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00",""

"NAWC Trenton, NJ","NAWC Trenton, NJ","RW12-20170501","05/01/2017 11:45","DW","1700550-03","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 13:45","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00",""

"NAWC Trenton, NJ","NAWC Trenton, NJ","FRB12-20170501","05/01/2017 11:40","DW","1700550-04","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 13:57","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00",""

"NAWC Trenton, NJ","NAWC Trenton, NJ","RW13-20170501","05/01/2017 12:15","DW","1700550-05","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 14:09","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00",""

"NAWC Trenton, NJ","NAWC Trenton, NJ","FRB13-20170501","05/01/2017 12:10","DW","1700550-06","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 14:22","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00",""

"NAWC Trenton, NJ","NAWC Trenton, NJ","RW13G-20170501","05/01/2017 12:35","DW","1700550-07","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 14:34","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00","" "NAWC Trenton, NJ","NAWC Trenton, NJ","FRB13G-20170501","05/01/2017 12:30","DW","1700550-08","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 14:47","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00","" "NAWC Trenton, NJ","NAWC Trenton, NJ","RW09-20170501","05/01/2017 15:45","DW","1700550-09","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 15:02","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00","" "NAWC Trenton, NJ","NAWC Trenton, NJ","FRB09-20170501","05/01/2017 15:40","DW","1700550-10","NM","","5.00","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 15:15","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","05/02/2017 11:30","01/01/1900 00:00","" "NAWC Trenton, NJ","NAWC Trenton, NJ","B7D0150-BLK1","01/01/1900 00:00","DW","B7D0150-BLK1","MB","",-99","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 13:06","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","01/01/1900 00:00","01/01/1900 00:00","" "NAWC Trenton, NJ","NAWC Trenton, NJ","B7D0150-BS1","01/01/1900 00:00","DW","B7D0150-BS1","LCS","",-99","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/08/2017 12:42","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","01/01/1900 00:00","01/01/1900 00:00","" "NAWC Trenton, NJ","NAWC Trenton, NJ","B7D0150-MS1","01/01/1900 00:00","DW","B7D0150-MS1","MS","",-99","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/10/2017 09:11","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","01/01/1900 00:00","01/01/1900 00:00","" "NAWC Trenton, NJ","NAWC Trenton, NJ","B7D0150-MSD1","01/01/1900 00:00","DW","B7D0150-MSD1","MSD","",-99","EPA Method 537","METHOD","Initial","05/03/2017 08:23","05/10/2017 09:24","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7D0150","B7D0150","NA","S7E0012","1700550","01/01/1900 00:00","01/01/1900 00:00",""





TO: M. MANG  
SDG: 1700550

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**Executive Summary**

**Laboratory Performance:** None.

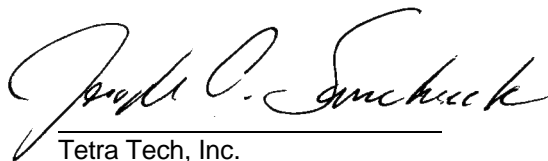
**Other Factors Affecting Data Quality:** Positive results below the LOQ were qualified as estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Superfund Organic Methods Data Review" (January 2017). The text of this report has been formulated to address only those areas affecting data quality.



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Tetra Tech, Inc.  
Megan Ritchie  
Chemist/Data Validator



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Tetra Tech, Inc.  
Joseph A. Samchuck  
Data Validation Manager

**Attachments:**

Appendix A – Qualified Analytical Results  
Appendix B – Results as Reported by the Laboratory  
Appendix C – Support Documentation

**Appendix A**

Qualified Analytical Results

<b>PROJ_NO: 08005-WE08</b> <b>SDG: 1700550</b> <b>FRACTION: OS</b> <b>MEDIA: WATER</b>	NSAMPLE	FRB02-20170501			FRB09-20170501			FRB12-20170501			FRB13-20170501		
	LAB_ID	1700550-02			1700550-10			1700550-04			1700550-06		
	SAMP_DATE	5/1/2017			5/1/2017			5/1/2017			5/1/2017		
	QC_TYPE	FB			FB			FB			FB		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
PENTADECAFLUOROOCTANOIC ACID	9.69	U		9.41	U		9.44	U		9.45	U		
PERFLUOROBUTANE SULFONATE	9.69	U		9.41	U		9.44	U		9.45	U		
PERFLUOROHEPTANOIC ACID	9.69	U		9.41	U		9.44	U		9.45	U		
PERFLUOROHXANESULFONIC ACID	9.69	U		9.41	U		9.44	U		9.45	U		
PERFLUORONONANOIC ACID	9.69	U		9.41	U		9.44	U		9.45	U		
PERFLUOROOCTANE SULFONIC ACID	9.69	U		9.41	U		9.44	U		9.45	U		

<b>PROJ_NO: 08005-WE08</b> <b>SDG: 1700550</b> <b>FRACTION: OS</b> <b>MEDIA: WATER</b>	NSAMPLE	FRB13G-20170501			RW02-20170501			RW09-20170501			RW12-20170501		
	LAB_ID	1700550-08			1700550-01			1700550-09			1700550-03		
	SAMP_DATE	5/1/2017			5/1/2017			5/1/2017			5/1/2017		
	QC_TYPE	FB			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
PENTADECAFLUOROOCTANOIC ACID	9.66	U		9.15	J	P	10	J	P	4.13	J	P	
PERFLUOROBUTANE SULFONATE	9.66	U		9.72	U		4.51	J	P	9.51	U		
PERFLUOROHEPTANOIC ACID	9.66	U		9.72	U		9.41	U		9.51	U		
PERFLUOROHXANESULFONIC ACID	9.66	U		2.04	J	P	2.54	J	P	7.16	J	P	
PERFLUORONONANOIC ACID	9.66	U		9.72	U		9.41	U		5.08	J	P	
PERFLUOROOCTANE SULFONIC ACID	9.66	U		7.54	J	P	5.96	J	P	11	J	P	

<b>PROJ_NO: 08005-WE08</b> <b>SDG: 1700550</b> <b>FRACTION: OS</b> <b>MEDIA: WATER</b>	NSAMPLE	RW13-20170501			RW13G-20170501		
	LAB_ID	1700550-05			1700550-07		
	SAMP_DATE	5/1/2017			5/1/2017		
	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
PENTADECAFLUOROOCTANOIC ACID	10.2	U		9.16	J	P	
PERFLUOROBUTANE SULFONATE	10.2	U		9.61	U		
PERFLUOROHEPTANOIC ACID	10.2	U		3.71	J	P	
PERFLUOROHEXANESULFONIC ACID	10.2	U		13.3	J	P	
PERFLUORONONANOIC ACID	10.2	U		4.85	J	P	
PERFLUOROOCTANE SULFONIC ACID	10.2	U		14.9	J	P	

### Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

<b>U</b>	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
<b>J</b>	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
<b>J+</b>	The result is an estimated quantity, but the result may be biased high.
<b>J-</b>	The result is an estimated quantity, but the result may be biased low.
<b>UJ</b>	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
<b>R</b>	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
<b>UR</b>	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

**Qualifier Codes:**

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's  $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ( $< 2 \times$  IDL for inorganics and  $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors  $>40\%$  for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient  $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids  $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC



**Appendix B**

Results as Reported by the Laboratory

**Sample ID: RW02-20170501**

**EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-01	Date Received:	02-May-2017 11:30		
Project:	NAWC Trenton, NJ	Sample Size:	0.257 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23		
Date Collected:	01-May-2017 10:25			Date Analyzed:	08-May-17 13:19	Column:	BEH C18		
Location:	Pressure Tank								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.44	9.72	19.4		SUR 13C2-PFHxA	115	70 - 130	
PFHpA	ND	3.11	9.72	19.4		SUR 13C2-PFDA	117	70 - 130	
PFHxS	2.04	1.72	9.72	19.4	J				
PFOA	9.15	4.15	9.72	19.4	J				
PFNA	ND	3.39	9.72	19.4					
PFOS	7.54	1.91	9.72	19.4	J				

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: FRB02-20170501						EPA Method 537			
Client Data		Sample Data		Laboratory Data					
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-02	Date Received:	02-May-2017 11:30		
Project:	NAWC Trenton, NJ	Sample Size:	0.258 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23		
Date Collected:	01-May-2017 10:20			Date Analyzed:	08-May-17 13:32 Column: BEH C18				
Location:	Pump Room								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.43	9.69	19.4		SUR 13C2-PFHxA	103	70 - 130	
PFHpA	ND	3.10	9.69	19.4		SUR 13C2-PFDA	106	70 - 130	
PFHxS	ND	1.72	9.69	19.4					
PFOA	ND	4.14	9.69	19.4					
PFNA	ND	3.38	9.69	19.4					
PFOS	ND	1.90	9.69	19.4					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: RW12-20170501						EPA Method 537			
Client Data		Sample Data		Laboratory Data					
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-03	Date Received:	02-May-2017 11:30		
Project:	NAWC Trenton, NJ	Sample Size:	0.263 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23		
Date Collected:	01-May-2017 11:45			Date Analyzed:	08-May-17 13:45 Column: BEH C18				
Location:	Pressure Tank								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.39	9.51	19.0		SUR 13C2-PFHxA	109	70 - 130	
PFHpA	ND	3.04	9.51	19.0		SUR 13C2-PFDA	114	70 - 130	
PFHxS	7.16	1.68	9.51	19.0	J				
PFOA	4.13	4.06	9.51	19.0	J				
PFNA	5.08	3.32	9.51	19.0	J				
PFOS	11.0	1.86	9.51	19.0	J				

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

**Sample ID: FRB12-20170501** **EPA Method 537**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Tetra Tech	Matrix: Blank Water	Lab Sample: 1700550-04      Date Received: 02-May-2017 11:30
Project: NAWC Trenton, NJ	Sample Size: 0.265 L	QC Batch: B7D0150      Date Extracted: 03-May-2017 8:23
Date Collected: 01-May-2017 11:40		Date Analyzed: 08-May-17 13:57      Column: BEH C18
Location: Pump Room		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.37	9.44	18.9		SUR 13C2-PFHxA	109	70 - 130	
PFHpA	ND	3.02	9.44	18.9		SUR 13C2-PFDA	108	70 - 130	
PFHxS	ND	1.67	9.44	18.9					
PFOA	ND	4.03	9.44	18.9					
PFNA	ND	3.30	9.44	18.9					
PFOS	ND	1.85	9.44	18.9					

DL - Detection limit  
 RL - Reporting limit

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

**Sample ID: RW13-20170501** **EPA Method 537**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-05	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.246 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 12:15			Date Analyzed:	08-May-17 14:09	Column:	BEH C18
Location:	Pressure Tank						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.56	10.2	20.4		SUR 13C2-PFHxA	96.4	70 - 130	
PFHpA	ND	3.26	10.2	20.4		SUR 13C2-PFDA	97.3	70 - 130	
PFHxS	ND	1.80	10.2	20.4					
PFOA	ND	4.35	10.2	20.4					
PFNA	ND	3.55	10.2	20.4					
PFOS	ND	2.00	10.2	20.4					

DL - Detection limit  
 RL - Reporting limit

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

Sample ID: FRB13-20170501						EPA Method 537			
Client Data		Sample Data		Laboratory Data					
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-06	Date Received:	02-May-2017 11:30		
Project:	NAWC Trenton, NJ	Sample Size:	0.265 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23		
Date Collected:	01-May-2017 12:10			Date Analyzed:	08-May-17 14:22	Column:	BEH C18		
Location:	Pump Room								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.37	9.45	18.9		SUR 13C2-PFHxA	104	70 - 130	
PFHpA	ND	3.02	9.45	18.9		SUR 13C2-PFDA	104	70 - 130	
PFHxS	ND	1.67	9.45	18.9					
PFOA	ND	4.03	9.45	18.9					
PFNA	ND	3.30	9.45	18.9					
PFOS	ND	1.85	9.45	18.9					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

**Sample ID: RW13G-20170501** **EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-07	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.260 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 12:35			Date Analyzed:	08-May-17 14:34	Column:	BEH C18
Location:	Pressure Tank						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.41	9.61	19.2		SUR 13C2-PFHxA	101	70 - 130	
PFHpA	3.71	3.08	9.61	19.2	J	SUR 13C2-PFDA	113	70 - 130	
PFHxS	13.3	1.70	9.61	19.2	J				
PFOA	9.16	4.10	9.61	19.2	J				
PFNA	4.85	3.35	9.61	19.2	J				
PFOS	14.9	1.88	9.61	19.2	J				

DL - Detection limit  
 RL - Reporting limit

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



**Sample ID: FRB13G-20170501** **EPA Method 537**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-08	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.259 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 12:30			Date Analyzed:	08-May-17 14:47	Column:	BEH C18
Location:	Pump Room						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.42	9.66	19.3		SUR 13C2-PFHxA	106	70 - 130	
PFHpA	ND	3.09	9.66	19.3		SUR 13C2-PFDA	112	70 - 130	
PFHxS	ND	1.71	9.66	19.3					
PFOA	ND	4.12	9.66	19.3					
PFNA	ND	3.37	9.66	19.3					
PFOS	ND	1.89	9.66	19.3					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

**Sample ID: RW09-20170501** **EPA Method 537**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	Tetra Tech	Matrix:	Drinking Water	Lab Sample:	1700550-09	Date Received:	02-May-2017 11:30
Project:	NAWC Trenton, NJ	Sample Size:	0.266 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23
Date Collected:	01-May-2017 15:45			Date Analyzed:	08-May-17 15:02	Column:	BEH C18
Location:	Pressure Tank						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	4.51	2.36	9.41	18.8	J	SUR 13C2-PFHxA	117	70 - 130	
PFHpA	ND	3.01	9.41	18.8		SUR 13C2-PFDA	121	70 - 130	
PFHxS	2.54	1.67	9.41	18.8	J				
PFOA	10.0	4.02	9.41	18.8	J				
PFNA	ND	3.28	9.41	18.8					
PFOS	5.96	1.84	9.41	18.8	J				

DL - Detection limit  
 RL - Reporting limit

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

Sample ID: FRB09-20170501						EPA Method 537			
Client Data		Sample Data		Laboratory Data					
Name:	Tetra Tech	Matrix:	Blank Water	Lab Sample:	1700550-10	Date Received:	02-May-2017 11:30		
Project:	NAWC Trenton, NJ	Sample Size:	0.266 L	QC Batch:	B7D0150	Date Extracted:	03-May-2017 8:23		
Date Collected:	01-May-2017 15:40			Date Analyzed:	08-May-17 15:15 Column: BEH C18				
Location:	Pump Room								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.36	9.41	18.8		SUR 13C2-PFHxA	117	70 - 130	
PFHpA	ND	3.01	9.41	18.8		SUR 13C2-PFDA	119	70 - 130	
PFHxS	ND	1.67	9.41	18.8					
PFOA	ND	4.02	9.41	18.8					
PFNA	ND	3.28	9.41	18.8					
PFOS	ND	1.84	9.41	18.8					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

**Appendix C**

Support Documentation



**SDG Number WE08**

**Vista Work Order No. 1700550**

**Case Narrative**

**Sample Condition on Receipt:**

Five drinking water samples and five blank water 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. The client confirmed that the sample ID for the FRB is "FRB09-20170501".

**Analytical Notes:**

**EPA Method 537**

The drinking water samples were extracted and analyzed for the UCMR list of six PFAS using EPA Method 537.

**Holding Times**

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

**Quality Control**

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

A Laboratory Fortified Blank (LFB) and Laboratory Reagent Blank (LRB) were extracted and analyzed with the preparation batch. No analytes were detected in the LRB above 1/2 the LOQ. The LFB recoveries were within the method acceptance criteria.

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

A Laboratory Fortified Sample Matrix (LFSM) and Laboratory Fortified Sample Matrix Duplicate (LFSMD) was prepared and analyzed using sample "RW02-20170501".

Dataset: U:\G1.PRO\Results\2017\170508G1\170508G1-23.qld

Last Altered: Monday, May 08, 2017 15:03:33 Pacific Daylight Time

Printed: Monday, May 08, 2017 15:04:22 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

ID: 1700550-07 RW13G-20170501 0.26009, Description: RW13G-20170501, Name: 170508G1\_23, Date: 08-May-2017, Time: 14:34:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	2.049e2	1.008e4		0.260	2.92	2.14	
2	2 PFHpA	363 > 318.9	6.447e2	6.164e3		0.260	3.76	3.71	
3	3 PFHxS	398.9 > 79.6	1.471e3	1.008e4		0.260	3.86	13.3	
4	4 PFOA	413 > 368.7	1.198e3	6.164e3		0.260	4.14	9.16	
5	5 PFOS	499 > 79.9	4.794e2	1.008e4		0.260	4.52	14.9	
6	6 PFNA	463 > 418.8	1.232e3	6.164e3		0.260	4.46	4.85	
7	7 13C2-PFHxA	315.0 > 269.8	2.493e3	6.164e3	0.401	0.260	3.28	38.8	101
8	8 13C2-PFDA	515.1 > 469.9	5.192e3	6.164e3	0.748	0.260	4.74	43.3	113
9	9 13C2-PFOA	414.9 > 369.7	6.164e3	6.164e3	1.000	0.260	4.14	38.4	100
10	10 13C4-PFOS	503.0 > 79.9	1.008e4	1.008e4	1.000	0.260	4.52	110	100

Example Calculation for PFOA for Sample RW13G-20170501

$$(1198 / 6164) * (38.4 / 0.824) = 9.06$$

**Sample ID: LRB****EPA Method 537**Matrix: Drinking Water  
Sample Size: 0.250 LQC Batch: B7D0150  
Date Extracted: 03-May-2017 8:23Lab Sample: B7D0150-BLK1  
Date Analyzed: 08-May-17 13:06 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.51	10.0	20.0		SUR 13C2-PFHxA	103	70 - 130	
PFHpA	ND	3.20	10.0	20.0		SUR 13C2-PFDA	102	70 - 130	
PFHxS	ND	1.77	10.0	20.0					
PFOA	ND	4.27	10.0	20.0					
PFNA	ND	3.49	10.0	20.0					
PFOS	ND	1.96	10.0	20.0					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.



**Sample ID: LFB****EPA Method 537**

Matrix: Drinking Water Sample Size: 0.250 L	QC Batch: B7D0150 Date Extracted: 03-May-2017 8:23	Lab Sample: B7D0150-BS1 Date Analyzed: 08-May-17 12:42 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	18.7	17.7	106	70 - 130	SUR 13C2-PFHxA	99.1	70 - 130
PFHpA	20.5	20.0	102	70 - 130	SUR 13C2-PFDA	101	70 - 130
PFHxS	18.1	18.2	99.1	70 - 130			
PFOA	21.7	20.0	109	70 - 130			
PFNA	20.1	20.0	100	70 - 130			
PFOS	22.3	18.5	121	70 - 130			

LCL-UCL - Lower control limit - upper control limit

**LFSM Results**

**EPA Method 537**

Source Client ID: RW02-20170501	QC Batch: B7D0150	Lab Sample: B7D0150-MS1/B7D0150-MSD1
Source LabNumber: 1700550-01	Date Extracted: 03-May-2017 8:23	Date Analyzed: 10-May-17 09:11 Column: BEH C18
Matrix: Drinking Water		10-May-17 09:24 Column: BEH C18
Sample Size: 0.264/0.255 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	MSD RPD	MSD Qual.	%R Limit	%RPD Limit	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
PFBS	16.7	121		17.3	125	3.25		70 - 130	30	SUR 13C2-PFHxA	110		109	
PFHpA	18.9	93.5		19.6	89.6	4.26	J	70 - 130	30	SUR 13C2-PFDA	82.0		89.4	
PFHxS	17.3	123		17.9	127	3.20		70 - 130	30					
PFOA	18.9	78.6		19.6	73.7	6.43		70 - 130	30					
PFNA	18.9	89.8	J	19.6	87.6	2.48	J	70 - 130	30					
PFOS	17.5	101		18.1	98.1	2.91		70 - 130	30					

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.  
Only the linear isomer is reported for all other analytes.

Batch: B7D0150

Matrix: Drinking Water

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1700529-01	0.25	NA	NA	1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-01	0.25719 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-02	0.25799 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-03	0.26282 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-04	0.26475 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-05	0.24554 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-06	0.26467 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-07	0.26009 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-08	0.25888 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
1700550-09	0.26564 ✓			1000	03-May-17 08:23	BAP			Drinking Water	537 PFAS DW DoD Unmoc
1700550-10	0.26575 ✓			1000	03-May-17 08:23	BAP			Blank Water	537 PFAS DW DoD Unmoc
B7D0150-BLK1	0.25 ✓			1000	03-May-17 08:23	BAP				QC
B7D0150-BS1	0.25 ✓			1000	03-May-17 08:23	BAP	17D1901 ✓	20 ✓		QC
B7D0150-BS2	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	10 ✓		QC
B7D0150-BS3	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	20 ✓		QC
B7D0150-BS4	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	20 ✓		QC
B7D0150-BS5	0.25 ✓			1000	03-May-17 08:23	BAP	17E0224 ✓	20 ✓		QC
B7D0150-MS1	0.26389 ✓			1000	03-May-17 08:23	BAP	17D190 ✓	20 ✓		QC
B7D0150-MSD1	0.25542 ✓			1000	03-May-17 08:23	BAP	17D190 ✓	20 ✓		QC

BP S.4.17

PREPARATION BENCH SHEET

Matrix: Drinking Water

Method: 537 PFAS DW DoD Unmodified

B7D0150

Chemist: BP

Prep Date/Time: 03-May-17 08:23

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	1700550-08	285.46	26.58	0.25888	BP 4/5/17	BP S. 3.17	BP 4/5/17
<input type="checkbox"/>	1700550-09	292.29	26.65	0.26564	↓	↓	↓
<input type="checkbox"/>	1700550-10	293.51	27.76	0.26575	↓	↓	↓

IS Name <u>17D1701, 50uL</u> (03)	NS Name <u>(A) 17D1901, 20uL</u> <u>(B) 17E0224, 10uL</u> <u>(C) 17E0224, 20uL</u>	RS Name <u>17D1706, 50uL</u> (03)	SPE Chem: <u>strata-X 33um 500mg/6uL</u>	Check Out: <u>5/2/17-HB</u>
			Ele SOLV: <u>MeOH</u>	Check In: <u>NA</u>
			Final Volume(s) <u>1mL</u>	Balance ID: <u>HRMSB</u>

Comments: Assume 1 g = 1 mL

EZH

PREPARATION BENCH SHEET

Matrix: Drinking Water

Method: 537 PFAS DW DoD Unmodified

B7D0150

Chemist: BP

Prep Date/Time: 03-May-17 08:23

Prepared using: LCMS - SPE Extraction-LCMS

C7FOOIS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B7D0150-BLK1	NA	NA	(0.250)	BP 5/3/17	BP S. 3.17	BP 5/4/17
<input type="checkbox"/>	B7D0150-BS1						
<input type="checkbox"/>	B7D0150-BS2						
<input type="checkbox"/>	B7D0150-BS3						
<input type="checkbox"/>	B7D0150-BS4						
<input type="checkbox"/>	B7D0150-BS5						
<input type="checkbox"/>	B7D0150-MS1 1700529-01	291.98	28.09	0.26389			
<input type="checkbox"/>	B7D0150-MSD1 1700529-01	282.42	27.00	0.25542			
<input type="checkbox"/>	1700529-01						
<input type="checkbox"/>	1700550-01	284.22	27.03	0.25719	BP 5/3/17	BP S 3 17	BP 5/4/17
<input type="checkbox"/>	1700550-02	285.92	27.93	0.25799			
<input type="checkbox"/>	1700550-03	289.49	26.67	0.26282			
<input type="checkbox"/>	1700550-04	292.48	27.73	0.26475			
<input type="checkbox"/>	1700550-05	272.40	26.86	0.24554			
<input type="checkbox"/>	1700550-06	291.42	26.75	0.26467			
<input type="checkbox"/>	1700550-07	296.72	26.63	0.26009			

BP 5-3-17

IS Name 1701704, 30uL ③	NS Name ① 1701901, 20uL ② 17E0224, 10uL ③ 17E0224, 20uL	RS Name 17D1706, 30uL ③	SPE Chem: strata-X 33um 500um Ele SOLV: MeOH Final Volume(s) 1 mL	Check Out: 5/3/17 HB Chemist/Date: Check In: NA Chemist/Date: Balance ID: HRMS0
-------------------------------	--	-------------------------------	---	---

Comments: Assume 1 g = 1 mL

① Added approximately 0.625g of trizmo to QCS HB 5/3/17

Dataset: U:\G1.PRO\Results\2017\170510G1\170510G1.qld

Last Altered: Wednesday, May 10, 2017 9:23:24 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:24:52 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Name: 170510G1\_2, Date: 10-May-2017, Time: 08:46:55, ID: ST170510G1-1 PFC CS-2 17E0420, Description: PFC CS2 17E0420

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBS	299 > 79.7	3.81e2	9.72e3		1.000	2.91	1.08	121.8
2	2 PFHpA	363 > 318.9	9.26e2	9.34e3		1.000	3.78	0.913	91.3
3	3 PFHxS	398.9 > 79.6	3.68e2	9.72e3		1.000	3.90	0.886	97.4
4	4 PFOA	413 > 368.7	5.42e2	9.34e3		1.000	4.18	0.707	70.7
5	5 PFOS	499 > 79.9	9.26e1	9.72e3		1.000	4.58	0.766	82.4
6	6 PFNA	463 > 418.8	1.12e3	9.34e3		1.000	4.52	0.754	75.4
7	7 13C2-PFHxA	315.0 > 269.8	3.68e3	9.34e3	0.401	1.000	3.28	9.82	98.2
8	8 13C2-PFDA	515.1 > 469.9	5.36e3	9.34e3	0.748	1.000	4.81	7.66	76.6
9	9 13C2-PFOA	414.9 > 369.7	9.34e3	9.34e3	1.000	1.000	4.18	10.0	100.0
10	10 13C4-PFOS	503.0 > 79.9	9.72e3	9.72e3	1.000	1.000	4.58	28.7	100.0

70-130  
↓  
70-136  
↓

DM  
5/10/17  
w/r  
5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 10:24:02 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 10:25:32 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170510G1_1	IPA	10-May-17	08:34:31
2	170510G1_2	ST170510G1-1 PFC CS-2 17E0420	10-May-17	08:46:55
3	170510G1_3	IPA	10-May-17	08:59:17
4	170510G1_4	B7D0150-MS1 LFSM 0.26389	10-May-17	09:11:44
5	170510G1_5	B7D0150-MSD1 LFSMD 0.25542	10-May-17	09:24:07
6	170510G1_6	IPA	10-May-17	09:36:31
7	170510G1_7	ST170510G1-2 PFC CS3 17E0802	10-May-17	09:48:56
8	170510G1_8	IPA	10-May-17	10:01:20

Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-2.qld

Last Altered: Tuesday, May 09, 2017 12:39:07 PM Pacific Daylight Time

Printed: Tuesday, May 09, 2017 12:41:22 PM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_2, Date: 09-May-2017, Time: 10:09:47, ID: ST170509G1-1 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBS	298.8 > 79.7	1.68e4	6.10e3		1.000	2.85	12.2	121.9
2	2 PFHpA	363 > 318.9	2.04e4	1.09e4		1.000	3.70	12.1	121.0
3	3 PFHxS	398.8 > 79.8	1.35e4	6.40e3		1.000	3.81	10.9	109.5
4	4 PFOA	412.8 > 369.0	1.88e4	2.26e4		1.000	4.09	10.6	106.1
5	5 PFNA	462.8 > 418.8	2.33e4	9.18e3		1.000	4.42	10.3	102.9
6	6 PFOS	498.7 > 79.8	3.31e3	1.28e4		1.000	4.48	8.69	86.9
7	7 13C3-PFBS	302.0 > 98.8	6.10e3	1.31e4	0.453	1.000	2.85	12.8	102.5
8	8 13C4-PFHpA	367.2 > 321.8	1.09e4	1.31e4	0.857	1.000	3.70	12.1	96.6
9	9 18O2-PFHxS	403 > 102.6	6.40e3	1.31e4	0.440	1.000	3.81	13.8	110.8
10	10 13C2-PFOA	414.9 > 369.7	2.26e4	7.07e3	3.366	1.000	4.09	11.9	95.1
11	11 13C5-PFNA	468.2 > 422.9	9.18e3	9.60e3	0.909	1.000	4.42	13.2	105.3
12	12 13C8-PFOS	506.7 > 79.6	1.28e4	8.91e3	1.304	1.000	4.48	13.8	110.4
13	13 13C5-PFHxA	318 > 272.9	2.01e4	2.01e4	1.000	1.000	3.20	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.31e4	1.31e4	1.000	1.000	3.81	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	7.07e3	7.07e3	1.000	1.000	4.09	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	9.60e3	9.60e3	1.000	1.000	4.42	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	8.91e3	8.91e3	1.000	1.000	4.48	12.5	100.0

75-125  
↓  
60-150  
↓  
50-150  
60-150

OK  
5/19/17  
5/19/17



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work Order 170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-22.qld

Last Altered: Tuesday, May 09, 2017 3:48:22 PM Pacific Daylight Time  
Printed: Tuesday, May 09, 2017 3:48:53 PM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_22, Date: 09-May-2017, Time: 14:22:04, ID: ST170509G1-2 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.64e4	6.53e3		1.000	2.86	11.1	111.4
2	2 PFHpA	363 > 318.9	2.14e4	1.18e4		1.000	3.70	11.7	117.3
3	3 PFHxS	398.8 > 79.8	1.45e4	6.32e3		1.000	3.81	11.9	119.0
4	4 PFOA	412.8 > 369.0	1.94e4	2.39e4		1.000	4.09	10.4	103.8
5	5 PFNA	462.8 > 418.8	2.25e4	1.08e4		1.000	4.42	8.42	84.2
6	6 PFOS	498.7 > 79.8	3.41e3	1.20e4		1.000	4.48	9.54	95.4
7	7 13C3-PFBS	302.0 > 98.8	6.53e3	1.37e4	0.453	1.000	2.85	13.1	105.0
8	8 13C4-PFHpA	367.2 > 321.8	1.18e4	1.37e4	0.857	1.000	3.70	12.5	100.2
9	9 18O2-PFHxS	403 > 102.6	6.32e3	1.37e4	0.440	1.000	3.81	13.1	104.6
10	10 13C2-PFOA	414.9 > 369.7	2.39e4	8.11e3	3.366	1.000	4.09	10.9	87.5
11	11 13C5-PFNA	468.2 > 422.9	1.08e4	1.14e4	0.909	1.000	4.42	13.1	104.6
12	12 13C8-PFOS	506.7 > 79.6	1.20e4	1.03e4	1.304	1.000	4.48	11.2	89.4
13	13 13C5-PFHxA	318 > 272.9	2.00e4	2.00e4	1.000	1.000	3.20	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.37e4	1.37e4	1.000	1.000	3.81	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	8.11e3	8.11e3	1.000	1.000	4.09	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.14e4	1.14e4	1.000	1.000	4.42	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.03e4	1.03e4	1.000	1.000	4.48	12.5	100.0

Handwritten notes in the right margin of the table:  
 75-125 (with arrow pointing to row 1)  
 10-150 (with arrow pointing to row 7)  
 50-150 (with arrow pointing to row 10)  
 10-150 (with arrow pointing to row 12)

Handwritten signature and date:  
 DM  
 5/9/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work On 170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-35.qld

Last Altered: Wednesday, May 10, 2017 09:11:13 Pacific Daylight Time

Printed: Wednesday, May 10, 2017 09:11:23 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\IC18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_35, Date: 09-May-2017, Time: 17:06:19, ID: ST170509G1-3 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.75e4	6.69e3	1.000	2.89	11.6	116.2	116.2
2	2 PFHpA	363 > 318.9	2.33e4	1.23e4	1.000	3.77	12.2	122.1	122.1
3	3 PFHxS	398.8 > 79.8	1.34e4	6.75e3	1.000	3.88	10.3	103.2	103.2
4	4 PFOA	412.8 > 369.0	1.83e4	2.60e4	1.000	4.17	8.98	89.8	89.8
5	5 PFNA	462.8 > 418.8	2.55e4	1.07e4	1.000	4.51	9.70	97.0	97.0
6	6 PFOS	498.7 > 79.8	3.10e3	1.38e4	1.000	4.57	7.58	75.8	75.8
7	7 13C3-PFBS	302.0 > 98.8	6.69e3	1.43e4	0.453	1.000	2.89	13.0	103.6
8	8 13C4-PFHpA	367.2 > 321.8	1.23e4	1.43e4	0.857	1.000	3.77	12.6	100.8
9	9 18O2-PFHxS	403 > 102.6	6.75e3	1.43e4	0.440	1.000	3.88	13.5	107.6
10	10 13C2-PFOA	414.9 > 369.7	2.60e4	9.23e3	3.366	1.000	4.17	10.5	83.6
11	11 13C5-PFNA	468.2 > 422.9	1.07e4	1.20e4	0.909	1.000	4.51	12.3	98.1
12	12 13C8-PFOS	506.7 > 79.6	1.38e4	9.98e3	1.304	1.000	4.57	13.2	105.7
13	13 13C5-PFHxA	318 > 272.9	2.10e4	2.10e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.43e4	1.43e4	1.000	1.000	3.88	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	9.23e3	9.23e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.20e4	1.20e4	1.000	1.000	4.50	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	9.98e3	9.98e3	1.000	1.000	4.57	12.5	100.0

75-125  
60-150  
50-150  
40-150

AM  
5/10/17  
W 5/10/17



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work Order 170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-48.qld

Last Altered: Wednesday, May 10, 2017 9:14:06 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:15:05 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_48, Date: 09-May-2017, Time: 19:50:48, ID: ST170509G1-4 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.75e4	6.91e3		1.000	2.90	11.2	112.5
2	2 PFHpA	363 > 318.9	2.34e4	1.31e4		1.000	3.77	11.6	115.7
3	3 PFHxS	398.8 > 79.8	1.47e4	7.00e3		1.000	3.89	10.9	108.8
4	4 PFOA	412.8 > 369.0	2.01e4	2.80e4		1.000	4.17	9.16	91.6
5	5 PFNA	462.8 > 418.8	2.68e4	1.06e4		1.000	4.50	10.3	103.0
6	6 PFOS	498.7 > 79.8	3.03e3	1.27e4		1.000	4.57	8.03	80.3
7	7 13C3-PFBS	302.0 > 98.8	6.91e3	1.40e4	0.453	1.000	2.89	13.7	109.3
8	8 13C4-PFHpA	367.2 > 321.8	1.31e4	1.40e4	0.857	1.000	3.77	13.6	109.0
9	9 18O2-PFHxS	403 > 102.6	7.00e3	1.40e4	0.440	1.000	3.88	14.2	113.9
10	10 13C2-PFOA	414.9 > 369.7	2.80e4	8.76e3	3.366	1.000	4.17	11.9	95.0
11	11 13C5-PFNA	468.2 > 422.9	1.06e4	1.12e4	0.909	1.000	4.50	13.0	104.1
12	12 13C8-PFOS	506.7 > 79.6	1.27e4	9.42e3	1.304	1.000	4.57	12.9	103.5
13	13 13C5-PFHxA	318 > 272.9	2.16e4	2.16e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.40e4	1.40e4	1.000	1.000	3.88	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	8.76e3	8.76e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.12e4	1.12e4	1.000	1.000	4.50	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	9.42e3	9.42e3	1.000	1.000	4.57	12.5	100.0

75-125  
100-150  
100-150

Om  
5/10/17  
wt  
5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-61.qld

Last Altered: Wednesday, May 10, 2017 9:16:07 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:18:08 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_61, Date: 09-May-2017, Time: 22:35:02, ID: ST170509G1-5 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	298.8 > 79.7	1.75e4	7.11e3		1.000	2.90	10.9	108.8
2	2 PFHpA	363 > 318.9	2.36e4	1.33e4		1.000	3.77	11.4	114.4
3	3 PFHxS	398.8 > 79.8	1.39e4	7.07e3		1.000	3.89	10.2	102.2
4	4 PFOA	412.8 > 369.0	1.95e4	2.78e4		1.000	4.17	8.93	89.3
5	5 PFNA	462.8 > 418.8	2.58e4	1.09e4		1.000	4.50	9.61	96.1
6	6 PFOS	498.7 > 79.8	2.74e3	1.17e4		1.000	4.57	7.86	78.6
7	7 13C3-PFBS	302.0 > 98.8	7.11e3	1.45e4	0.453	1.000	2.90	13.6	108.4
8	8 13C4-PFHpA	367.2 > 321.8	1.33e4	1.45e4	0.857	1.000	3.77	13.4	107.1
9	9 18O2-PFHxS	403 > 102.6	7.07e3	1.45e4	0.440	1.000	3.88	13.9	111.0
10	10 13C2-PFOA	414.9 > 369.7	2.78e4	8.52e3	3.366	1.000	4.17	12.1	97.0
11	11 13C5-PFNA	468.2 > 422.9	1.09e4	1.08e4	0.909	1.000	4.50	13.9	110.9
12	12 13C8-PFOS	506.7 > 79.6	1.17e4	8.80e3	1.304	1.000	4.57	12.8	102.2
13	13 13C5-PFHxA	318 > 272.9	2.18e4	2.18e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.45e4	1.45e4	1.000	1.000	3.88	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	8.52e3	8.52e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.08e4	1.08e4	1.000	1.000	4.50	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	8.80e3	8.80e3	1.000	1.000	4.57	12.5	100.0

Handwritten notes in the table area:  
 25-125  
 5/10/17  
 60% - 12  
 50-100  
 10-150

Handwritten signatures and dates:  
 DM  
 5/10/17  
 W  
 5/10/17



Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	Work Order 170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time  
Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: U:\G1.PRO\Results\2017\170509G1\170509G1-66.qld

Last Altered: Wednesday, May 10, 2017 9:18:49 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:19:58 AM Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Name: 170509G1\_66, Date: 09-May-2017, Time: 23:38:08, ID: ST170509G1-6 PFC CS3 17E0910, Description: PFC CS3 17E0910 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBS	298.8 > 79.7	1.84e4	6.88e3		1.000	2.91	11.9	118.8
2	2 PFHpA	363 > 318.9	2.46e4	1.28e4		1.000	3.77	12.4	124.4
3	3 PFHxS	398.8 > 79.8	1.44e4	6.60e3		1.000	3.89	11.3	112.8
4	4 PFOA	412.8 > 369.0	1.84e4	2.63e4		1.000	4.17	8.93	89.3
5	5 PFNA	462.8 > 418.8	2.33e4	9.31e3		1.000	4.51	10.2	101.6
6	6 PFOS	498.7 > 79.8	2.33e3	1.03e4		1.000	4.57	7.64	76.4
7	7 13C3-PFBS	302.0 > 98.8	6.88e3	1.42e4	0.453	1.000	2.90	13.4	107.2
8	8 13C4-PFHpA	367.2 > 321.8	1.28e4	1.42e4	0.857	1.000	3.77	13.1	105.1
9	9 18O2-PFHxS	403 > 102.6	6.60e3	1.42e4	0.440	1.000	3.89	13.2	105.9
10	10 13C2-PFOA	414.9 > 369.7	2.63e4	7.71e3	3.366	1.000	4.17	12.7	101.3
11	11 13C5-PFNA	468.2 > 422.9	9.31e3	9.65e3	0.909	1.000	4.51	13.3	106.2
12	12 13C8-PFOS	506.7 > 79.6	1.03e4	7.41e3	1.304	1.000	4.57	13.3	106.5
13	13 13C5-PFHxA	318 > 272.9	2.26e4	2.26e4	1.000	1.000	3.26	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.42e4	1.42e4	1.000	1.000	3.89	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	7.71e3	7.71e3	1.000	1.000	4.17	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	9.65e3	9.65e3	1.000	1.000	4.51	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	7.41e3	7.41e3	1.000	1.000	4.57	12.5	100.0

75-125  
60-156  
50-156  
60-150

OK  
5/10/17  
W  
5/10/17

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 14:27:03

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170509G1_1	IPA	09-May-17	09:57:06
2	170509G1_2	ST170509G1-1 PFC CS3 17E0910	09-May-17	10:09:47
3	170509G1_3	IPA	09-May-17	10:22:20
4	170509G1_4	B7D0148-BS1 OPR 0.125	09-May-17	10:34:57
5	170509G1_6	B7E0019-BS1 OPR 0.25	09-May-17	10:47:32
6	170509G1_5	B7E0020-BS1 OPR 0.125	09-May-17	11:00:26
7	170509G1_7	IPA	09-May-17	11:13:05
8	170509G1_8	B7D0148-BLK1 Method Blank 0.125	09-May-17	11:25:42
9	170509G1_10	B7E0019-BLK1 Method Blank 0.25	09-May-17	11:38:18
10	170509G1_9	B7E0020-BLK1 Method Blank 0.125	09-May-17	11:50:54
11	170509G1_11	1700533-01 Kroll Well Site (420-119869-1) 0.2...	09-May-17	12:03:31
12	170509G1_12	1700533-02 Field Blank (420-119869-2) 0.12483	09-May-17	12:16:10
13	170509G1_13	1700534-01 TF4-Hydrant 1-042517 0.26905	09-May-17	12:28:44
14	170509G1_14	1700548-01 1 0.24517	09-May-17	12:41:19
15	170509G1_15	1700548-02 2 0.25847	09-May-17	12:53:54
16	170509G1_16	1700548-03 3 0.256	09-May-17	13:06:28
17	170509G1_17	1700548-04 4 0.24164	09-May-17	13:19:04
18	170509G1_18	1700548-05 5 0.25816	09-May-17	13:31:40
19	170509G1_19	1700548-06 6 0.24796	09-May-17	13:44:17
20	170509G1_20	1700548-07 7 0.22877	09-May-17	13:56:55
21	170509G1_21	IPA	09-May-17	14:09:28
22	170509G1_22	ST170509G1-2 PFC CS3 17E0910	09-May-17	14:22:04
23	170509G1_23	IPA	09-May-17	14:34:38
24	170509G1_24	1700548-08 8 0.25939	09-May-17	14:47:16
25	170509G1_25	1700548-09 9 0.25317	09-May-17	14:59:50
26	170509G1_26	1700548-10 10 0.2403	09-May-17	15:12:25
27	170509G1_27	1700548-11 11 0.25483	09-May-17	15:25:00
28	170509G1_28	1700548-12 12 0.25853	09-May-17	15:37:40
29	170509G1_29	1700548-13 13 0.24999	09-May-17	15:50:19
30	170509G1_30	1700548-14 14 0.25816	09-May-17	16:02:56
31	170509G1_31	1700548-15 15 0.24597	09-May-17	16:15:34

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq_Date	Acq.Time
32	170509G1_32	1700548-16 16 0.23581	09-May-17	16:28:18
33	170509G1_33	1700548-17 17 0.25163	09-May-17	16:41:07
34	170509G1_34	IPA	09-May-17	16:53:42
35	170509G1_35	ST170509G1-3 PFC CS3 17E0910	09-May-17	17:06:19
36	170509G1_36	IPA	09-May-17	17:18:53
37	170509G1_37	1700548-18 18 0.23057	09-May-17	17:31:30
38	170509G1_38	1700548-19 19 0.24078	09-May-17	17:44:05
39	170509G1_39	1700548-20 20 0.24112	09-May-17	17:56:40
40	170509G1_40	1700549-01 21 0.125	09-May-17	18:09:59
41	170509G1_41	1700549-02 22 0.125	09-May-17	18:22:41
42	170509G1_42	1700549-03 23 0.125	09-May-17	18:35:18
43	170509G1_43	1700549-04 24 0.125	09-May-17	18:47:51
44	170509G1_44	1700549-05 25 0.125	09-May-17	19:00:25
45	170509G1_45	1700549-06 26 0.125	09-May-17	19:13:01
46	170509G1_46	1700549-07 27 0.125	09-May-17	19:25:36
47	170509G1_47	IPA	09-May-17	19:38:11
48	170509G1_48	ST170509G1-4 PFC CS3 17E0910	09-May-17	19:50:48
49	170509G1_49	IPA	09-May-17	20:03:22
50	170509G1_50	1700549-08 29 0.125	09-May-17	20:15:59
51	170509G1_51	1700549-09 30 0.125	09-May-17	20:28:36
52	170509G1_52	1700549-10 31 0.125	09-May-17	20:41:13
53	170509G1_53	1700549-11 32 0.125	09-May-17	20:53:51
54	170509G1_54	1700549-12 33 0.125	09-May-17	21:06:24
55	170509G1_55	1700549-13 34 0.125	09-May-17	21:18:58
56	170509G1_56	1700549-14 35 0.125	09-May-17	21:31:33
57	170509G1_57	1700549-15 36 0.125	09-May-17	21:44:08
58	170509G1_58	1700549-16 37 0.125	09-May-17	21:56:43
59	170509G1_59	1700549-17 38 0.125	09-May-17	22:09:47
60	170509G1_60	IPA	09-May-17	22:22:25
61	170509G1_61	ST170509G1-5 PFC CS3 17E0910	09-May-17	22:35:02
62	170509G1_62	IPA	09-May-17	22:47:36
63	170509G1_63	1700549-18 39 0.125	09-May-17	23:00:22
64	170509G1_64	1700549-19 40 0.125	09-May-17	23:12:56
65	170509G1_65	IPA	09-May-17	23:25:31

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 9:29:47 AM Pacific Daylight Time

Printed: Wednesday, May 10, 2017 9:30:01 AM Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
66	170509G1_66	ST170509G1-6 PFC CS3 17E0910	09-May-17	23:38:08
67	170509G1_67	IPA	09-May-17	23:50:42

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
 Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

**Compound name: PFBS**

Coefficient of Determination:  $R^2 = 0.996165$   
 Calibration curve:  $-0.00549123 * x^2 + 1.05017 * x$   
 Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )  
 Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

*CP 5/8/17*

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.442	2.92	1.35e2	1.08e4	0.344	-22.1	0.816
2	2 170508G1_3	0.885	2.91	3.43e2	1.18e4	0.795	-10.2	0.939
3	3 170508G1_4	1.77	2.91	7.05e2	1.14e4	1.71	-3.3	1.01
4	4 170508G1_5	4.42	2.92	1.65e3	1.19e4	3.87	-12.5	0.901
5	5 170508G1_6	8.85	2.91	3.92e3	1.11e4	10.2	15.4	1.15
6	6 170508G1_7	13.3	2.91	5.44e3	1.21e4	13.2	-0.7	0.971
7	7 170508G1_8	17.7	2.92	6.74e3	1.16e4	17.5	-1.0	0.944
8	8 170508G1_9	22.1	2.91	8.69e3	1.23e4	21.8	-1.5	0.916
9	9 170508G1_10	44.2	2.91	1.57e4	1.26e4	44.2	0.1	0.808

*✓ AC 5/9/17*

**Compound name: PFHpA**

Coefficient of Determination:  $R^2 = 0.995895$   
 Calibration curve:  $-0.00514951 * x^2 + 1.09006 * x$   
 Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )  
 Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.500	3.76	3.18e2	7.92e3	0.369	-26.3	0.803
2	2 170508G1_3	1.00	3.75	8.90e2	8.58e3	0.956	-4.4	1.04
3	3 170508G1_4	2.00	3.75	1.60e3	8.29e3	1.79	-10.7	0.965
4	4 170508G1_5	5.00	3.75	4.00e3	8.33e3	4.49	-10.1	0.959
5	5 170508G1_6	10.0	3.75	8.93e3	7.49e3	11.6	15.8	1.19
6	6 170508G1_7	15.0	3.75	1.28e4	8.73e3	14.4	-3.8	0.978
7	7 170508G1_8	20.0	3.75	1.62e4	8.08e3	20.3	1.4	1.00
8	8 170508G1_9	25.0	3.75	2.08e4	8.77e3	24.7	-1.3	0.951
9	9 170508G1_10	50.0	3.75	3.61e4	8.68e3	49.9	-0.2	0.832



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

**Compound name: PFHxS**

Coefficient of Determination: R<sup>2</sup> = 0.997755

Calibration curve: -0.0054302 \* x<sup>2</sup> + 1.22989 \* x

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.456	3.86	2.14e2	1.08e4	0.465	2.0	1.25
2	2 170508G1_3	0.910	3.86	4.22e2	1.18e4	0.836	-8.2	1.13
3	3 170508G1_4	1.82	3.86	8.20e2	1.14e4	1.70	-6.7	1.14
4	4 170508G1_5	4.56	3.86	2.09e3	1.19e4	4.19	-8.2	1.11
5	5 170508G1_6	9.12	3.86	4.64e3	1.11e4	10.3	12.4	1.32
6	6 170508G1_7	13.7	3.86	6.57e3	1.21e4	13.5	-1.6	1.14
7	7 170508G1_8	18.2	3.86	8.28e3	1.16e4	18.2	-0.2	1.13
8	8 170508G1_9	22.8	3.86	1.06e4	1.23e4	22.4	-1.8	1.09
9	9 170508G1_10	45.6	3.86	1.97e4	1.26e4	45.7	0.3	0.984

**Compound name: PFOA**

Coefficient of Determination: R<sup>2</sup> = 0.995856

Calibration curve: -0.00317929 \* x<sup>2</sup> + 0.82363 \* x

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.500	4.14	2.71e2	7.92e3	0.416	-16.8	0.684
2	2 170508G1_3	1.00	4.14	6.84e2	8.58e3	0.972	-2.8	0.797
3	3 170508G1_4	2.00	4.14	1.22e3	8.29e3	1.80	-10.2	0.735
4	4 170508G1_5	5.00	4.14	3.06e3	8.33e3	4.54	-9.1	0.735
5	5 170508G1_6	10.0	4.14	6.91e3	7.49e3	11.7	17.3	0.923
6	6 170508G1_7	15.0	4.14	9.77e3	8.73e3	14.4	-4.1	0.746
7	7 170508G1_8	20.0	4.14	1.22e4	8.08e3	19.8	-1.1	0.752
8	8 170508G1_9	25.0	4.14	1.62e4	8.77e3	24.8	-0.8	0.739
9	9 170508G1_10	50.0	4.14	2.89e4	8.68e3	50.1	0.2	0.666

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

**Compound name: PFOS**

Coefficient of Determination:  $R^2 = 0.993048$

Calibration curve:  $-0.0011599 * x^2 + 0.357599 * x$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.464	4.52	4.95e1	1.08e4	0.370	-20.3	0.285
2	2 170508G1_3	0.930	4.52	1.31e2	1.18e4	0.888	-4.5	0.340
3	3 170508G1_4	1.86	4.51	2.00e2	1.14e4	1.42	-23.7	0.272
4	4 170508G1_5	4.64	4.52	5.56e2	1.19e4	3.80	-18.1	0.289
5	5 170508G1_6	9.26	4.52	1.45e3	1.11e4	10.9	17.4	0.405
6	6 170508G1_7	13.9	4.52	1.94e3	1.21e4	13.4	-3.6	0.330
7	7 170508G1_8	18.6	4.52	2.66e3	1.16e4	19.7	5.9	0.354
8	8 170508G1_9	23.1	4.52	3.23e3	1.23e4	22.7	-1.8	0.325
9	9 170508G1_10	46.3	4.52	6.13e3	1.26e4	45.9	-0.8	0.302

**Compound name: PFNA**

Coefficient of Determination:  $R^2 = 0.995585$

Calibration curve:  $-0.00717833 * x^2 + 1.59366 * x$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	0.500	4.46	4.50e2	7.92e3	0.357	-28.6	1.14
2	2 170508G1_3	1.00	4.46	1.15e3	8.58e3	0.846	-15.4	1.34
3	3 170508G1_4	2.00	4.46	2.50e3	8.29e3	1.91	-4.5	1.51
4	4 170508G1_5	5.00	4.46	6.08e3	8.33e3	4.68	-6.4	1.46
5	5 170508G1_6	10.0	4.46	1.31e4	7.49e3	11.6	16.2	1.75
6	6 170508G1_7	15.0	4.46	1.82e4	8.73e3	14.0	-6.8	1.39
7	7 170508G1_8	20.0	4.47	2.39e4	8.08e3	20.4	2.0	1.48
8	8 170508G1_9	25.0	4.46	3.07e4	8.77e3	24.8	-1.0	1.40
9	9 170508G1_10	50.0	4.46	5.35e4	8.68e3	50.0	-0.1	1.23

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

**Compound name: 13C2-PFHxA**

Response Factor: 0.401178

RRF SD: 0.0288217, Relative SD: 7.18426

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	10.0	3.28	3.14e3	7.92e3	9.90	-1.0	0.397
2	2 170508G1_3	10.0	3.28	3.27e3	8.58e3	9.49	-5.1	0.381
3	3 170508G1_4	10.0	3.27	3.21e3	8.29e3	9.64	-3.6	0.387
4	4 170508G1_5	10.0	3.27	3.19e3	8.33e3	9.53	-4.7	0.382
5	5 170508G1_6	10.0	3.28	3.47e3	7.49e3	11.6	15.5	0.464
6	6 170508G1_7	10.0	3.27	3.38e3	8.73e3	9.64	-3.6	0.387
7	7 170508G1_8	10.0	3.27	3.51e3	8.08e3	10.8	8.4	0.435
8	8 170508G1_9	10.0	3.27	3.49e3	8.77e3	9.92	-0.8	0.398
9	9 170508G1_10	10.0	3.27	3.31e3	8.68e3	9.50	-5.0	0.381

**Compound name: 13C2-PFDA**

Response Factor: 0.748479

RRF SD: 0.0466575, Relative SD: 6.23364

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	10.0	4.73	5.97e3	7.92e3	10.1	0.6	0.753
2	2 170508G1_3	10.0	4.73	5.88e3	8.58e3	9.16	-8.4	0.686
3	3 170508G1_4	10.0	4.73	5.80e3	8.29e3	9.34	-6.6	0.699
4	4 170508G1_5	10.0	4.73	6.39e3	8.33e3	10.2	2.4	0.766
5	5 170508G1_6	10.0	4.73	6.26e3	7.49e3	11.2	11.6	0.835
6	6 170508G1_7	10.0	4.73	6.34e3	8.73e3	9.71	-2.9	0.726
7	7 170508G1_8	10.0	4.74	6.25e3	8.08e3	10.3	3.3	0.773
8	8 170508G1_9	10.0	4.73	6.84e3	8.77e3	10.4	4.3	0.781
9	9 170508G1_10	10.0	4.74	6.22e3	8.68e3	9.58	-4.2	0.717

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
 Printed: Monday, May 08, 2017 13:53:45 Pacific Daylight Time

**Compound name: 13C2-PFOA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	10.0	4.14	7.92e3	7.92e3	10.0	0.0	1.00
2	2 170508G1_3	10.0	4.14	8.58e3	8.58e3	10.0	0.0	1.00
3	3 170508G1_4	10.0	4.14	8.29e3	8.29e3	10.0	0.0	1.00
4	4 170508G1_5	10.0	4.14	8.33e3	8.33e3	10.0	0.0	1.00
5	5 170508G1_6	10.0	4.14	7.49e3	7.49e3	10.0	0.0	1.00
6	6 170508G1_7	10.0	4.14	8.73e3	8.73e3	10.0	0.0	1.00
7	7 170508G1_8	10.0	4.14	8.08e3	8.08e3	10.0	0.0	1.00
8	8 170508G1_9	10.0	4.14	8.77e3	8.77e3	10.0	0.0	1.00
9	9 170508G1_10	10.0	4.14	8.68e3	8.68e3	10.0	0.0	1.00

**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170508G1_2	28.7	4.52	1.08e4	1.08e4	28.7	0.0	1.00
2	2 170508G1_3	28.7	4.52	1.18e4	1.18e4	28.7	0.0	1.00
3	3 170508G1_4	28.7	4.52	1.14e4	1.14e4	28.7	0.0	1.00
4	4 170508G1_5	28.7	4.52	1.19e4	1.19e4	28.7	0.0	1.00
5	5 170508G1_6	28.7	4.52	1.11e4	1.11e4	28.7	0.0	1.00
6	6 170508G1_7	28.7	4.52	1.21e4	1.21e4	28.7	0.0	1.00
7	7 170508G1_8	28.7	4.52	1.16e4	1.16e4	28.7	0.0	1.00
8	8 170508G1_9	28.7	4.52	1.23e4	1.23e4	28.7	0.0	1.00
9	9 170508G1_10	28.7	4.52	1.26e4	1.26e4	28.7	0.0	1.00

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 13:40:38 Pacific Daylight Time

Printed: Wednesday, May 10, 2017 13:42:41 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170508G1_1	IPA	08-May-17	10:00:39
2	170508G1_2	ST170508G1-1 PFC CS-3 17E0421	08-May-17	10:13:04
3	170508G1_3	ST170508G1-2 PFC CS-2 17E0420	08-May-17	10:25:26
4	170508G1_4	ST170508G1-3 PFC CS-1 17E0419	08-May-17	10:37:49
5	170508G1_5	ST170508G1-4 PFC CS0 17E0417	08-May-17	10:50:15
6	170508G1_6	ST170508G1-5 PFC CS1 17E0801	08-May-17	11:02:39
7	170508G1_7	ST170508G1-6 PFC CS2 17E0413	08-May-17	11:15:06
8	170508G1_8	ST170508G1-7 PFC CS3 17E0802	08-May-17	11:27:31
9	170508G1_9	ST170508G1-8 PFC CS4 17E0411	08-May-17	11:39:57
10	170508G1_10	ST170508G1-9 PFC CS5 17E0410	08-May-17	11:52:23
11	170508G1_11	IPA	08-May-17	12:04:46
12	170508G1_12	SS170508G1-1 PFC SSS 17E0409	08-May-17	12:17:11
13	170508G1_13	IPA	08-May-17	12:29:34
14	170508G1_14	B7D0150-BS1 LFB 0.25	08-May-17	12:42:00
15	170508G1_15	IPA	08-May-17	12:54:23
16	170508G1_16	B7D0150-BLK1 LRB 0.25	08-May-17	13:06:48
17	170508G1_17	1700550-01 RW02-20170501 0.25719	08-May-17	13:19:19
18	170508G1_18	1700550-02 FRB02-20170501 0.25799	08-May-17	13:32:37
19	170508G1_19	1700550-03 RW12-20170501 0.26282	08-May-17	13:45:02
20	170508G1_20	1700550-04 FRB12-20170501 0.26475	08-May-17	13:57:27
21	170508G1_21	1700550-05 RW13-20170501 0.24554	08-May-17	14:09:53
22	170508G1_22	1700550-06 FRB13-20170501 0.26467	08-May-17	14:22:15
23	170508G1_23	1700550-07 RW13G-20170501 0.26009	08-May-17	14:34:37
24	170508G1_24	1700550-08 FRB13G-20170501 0.25888	08-May-17	14:47:00
25	170508G1_25	1700550-09 RW09-20170501 0.26564	08-May-17	15:02:50
26	170508G1_26	1700550-10 FBB09-20170501 0.26575	08-May-17	15:15:19
27	170508G1_27	B7D0150-MS1 LFSM 0.26389	08-May-17	15:27:43
28	170508G1_28	B7D0150-MSD1 LFSMD 0.25542	08-May-17	15:40:08
29	170508G1_29	B7D0150-BS2 LFB 0.25	08-May-17	15:52:33
30	170508G1_30	B7D0150-BS3 LFB 0.25	08-May-17	16:05:02
31	170508G1_31	B7D0150-BS4 LFB 0.25	08-May-17	16:17:29

Dataset: Untitled

Last Altered: Wednesday, May 10, 2017 13:40:38 Pacific Daylight Time

Printed: Wednesday, May 10, 2017 13:42:41 Pacific Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170508G1_32	B7D0150-BS5 LFB 0.25	08-May-17	16:29:52
33	170508G1_33	IPA	08-May-17	16:42:15
34	<del>170508G1_34</del>	<del>ST170508G1-10 PFC CS2 17E0413</del>	<del>08-May-17</del>	<del>16:54:40</del>
35	170508G1_35	IPA	08-May-17	17:07:06

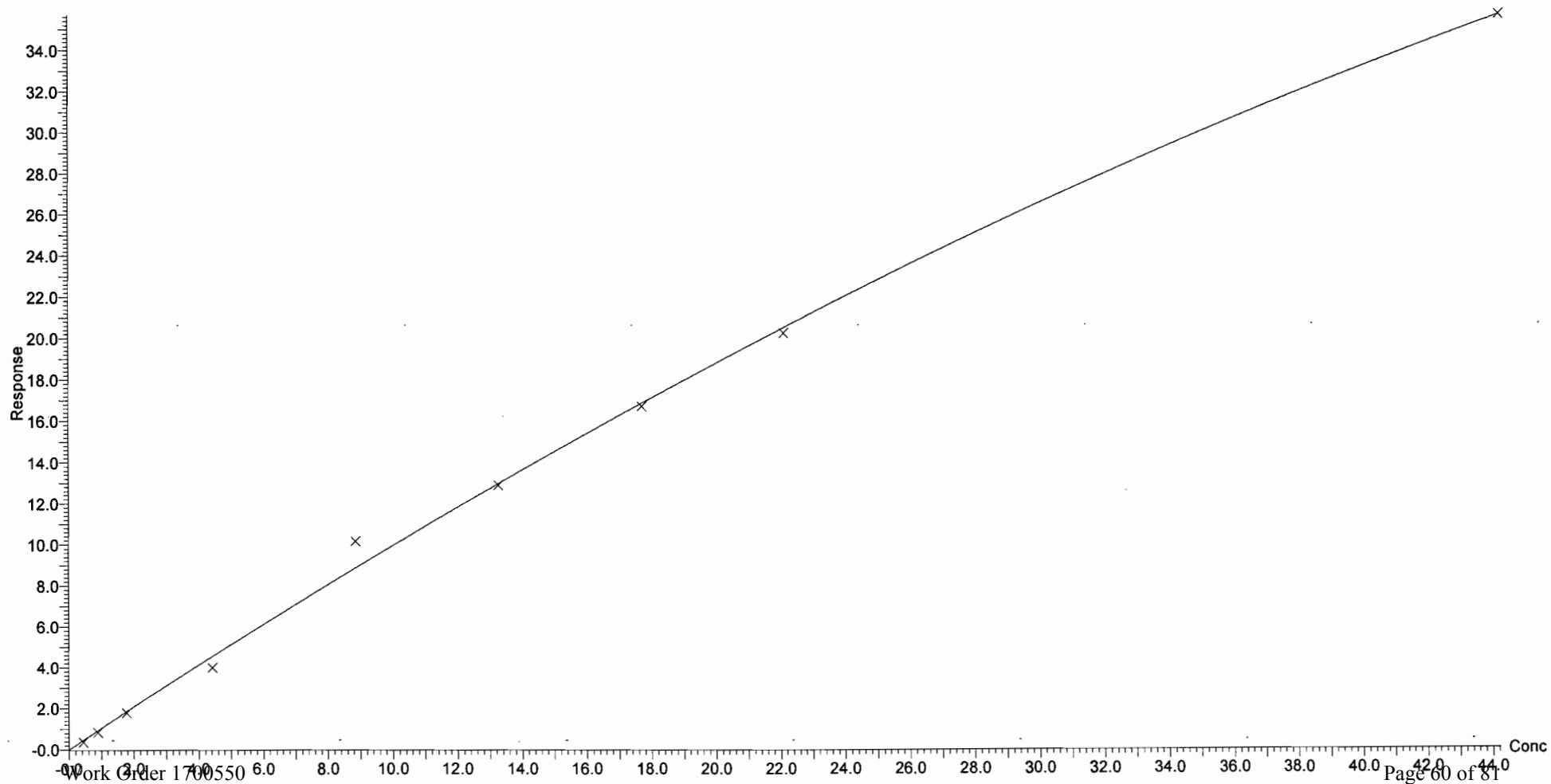
SEE 517050961-1

Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS\_537\_DW.mdb 21 Apr 2017 09:43:59  
Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_5-08-17\_DW.cdb 08 May 2017 13:52:13

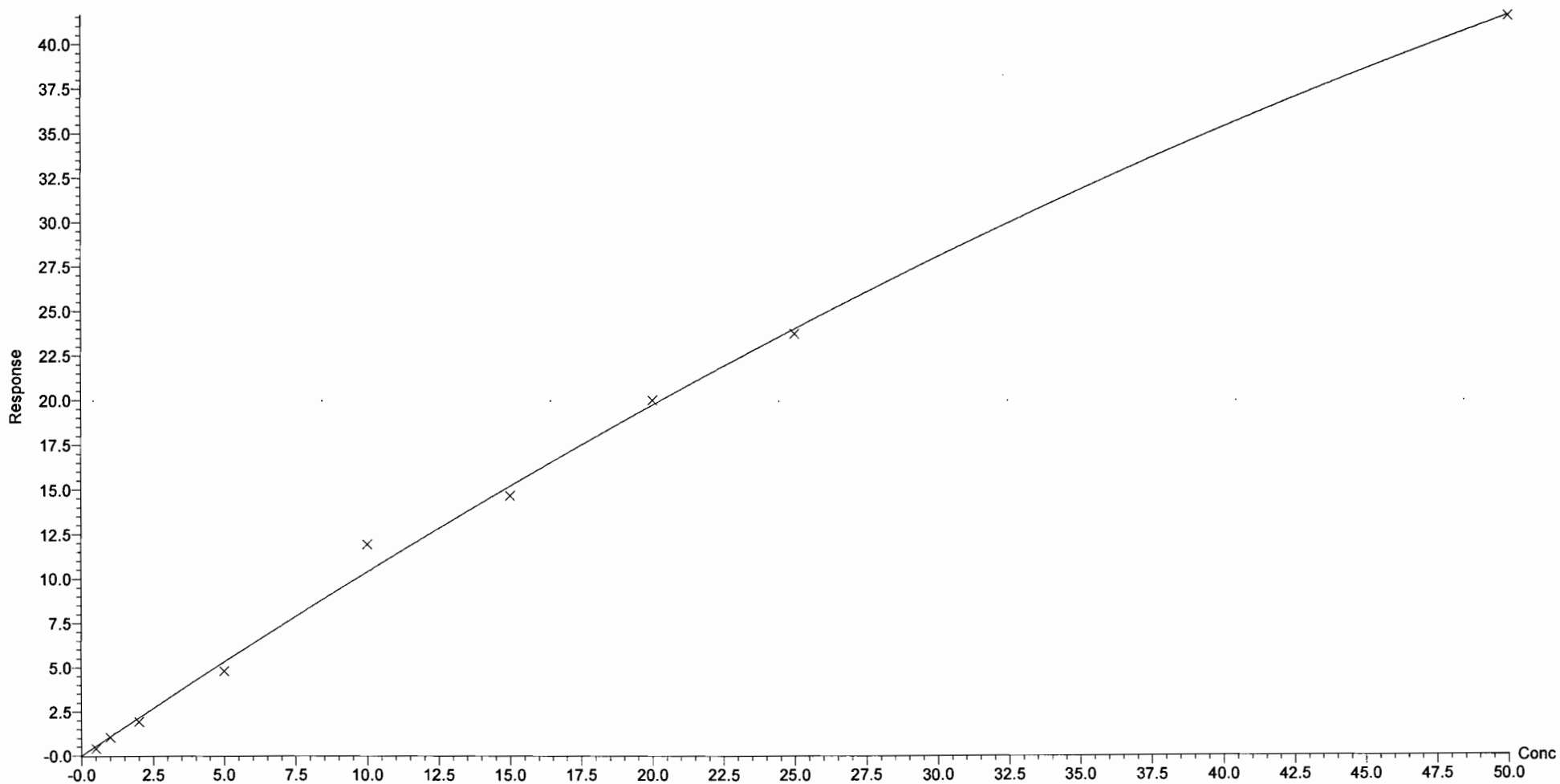
Compound name: PFBS  
Coefficient of Determination:  $R^2 = 0.996165$   
Calibration curve:  $-0.00549123 * x^2 + 1.05017 * x$   
Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

Compound name: PFHpA  
Coefficient of Determination:  $R^2 = 0.995895$   
Calibration curve:  $-0.00514951 * x^2 + 1.09006 * x$   
Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None





Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

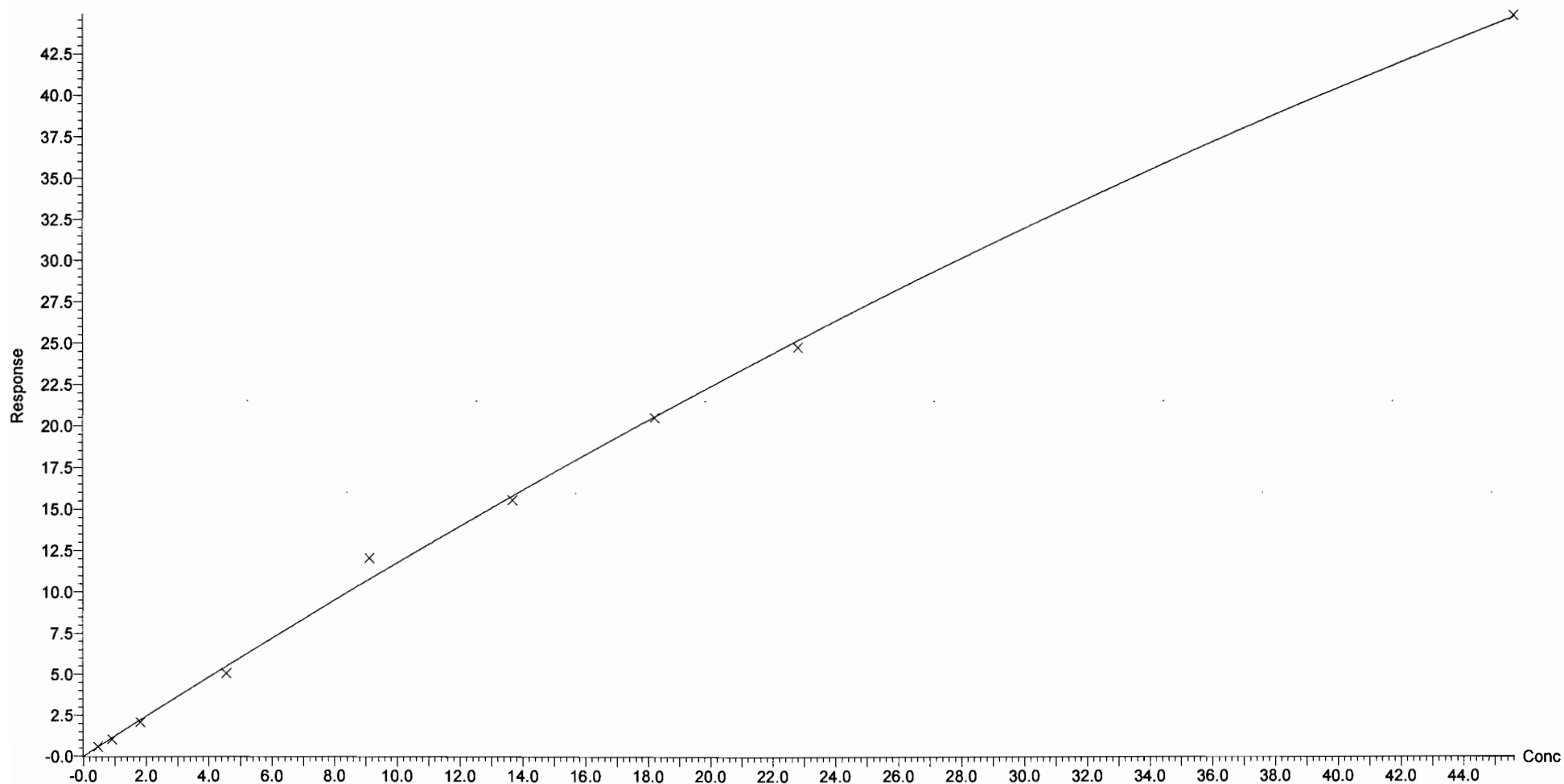
Compound name: PFHxS

Coefficient of Determination:  $R^2 = 0.997755$

Calibration curve:  $-0.0054302 * x^2 + 1.22989 * x$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

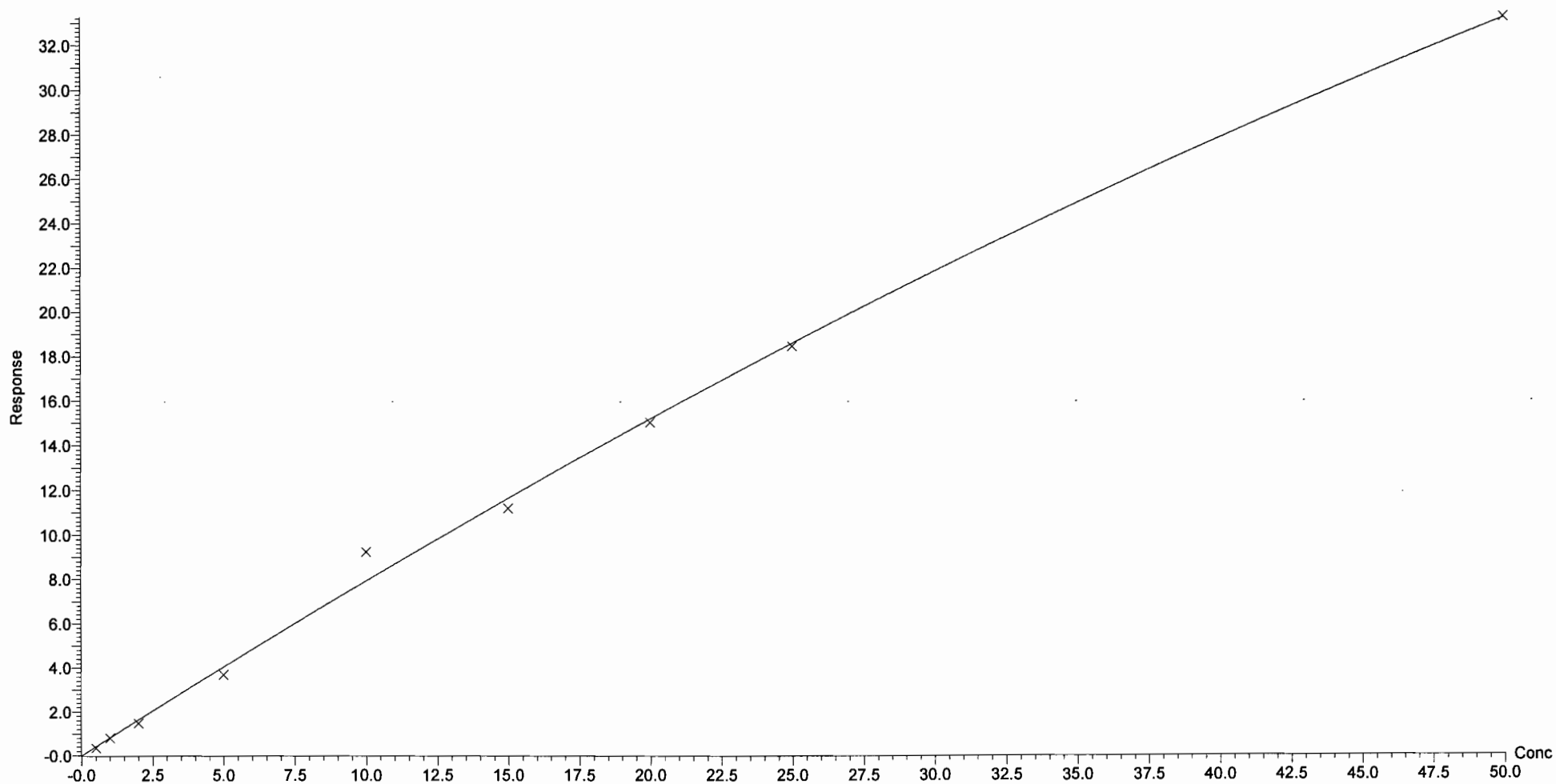
Compound name: PFOA

Coefficient of Determination:  $R^2 = 0.995856$

Calibration curve:  $-0.00317929 * x^2 + 0.82363 * x$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

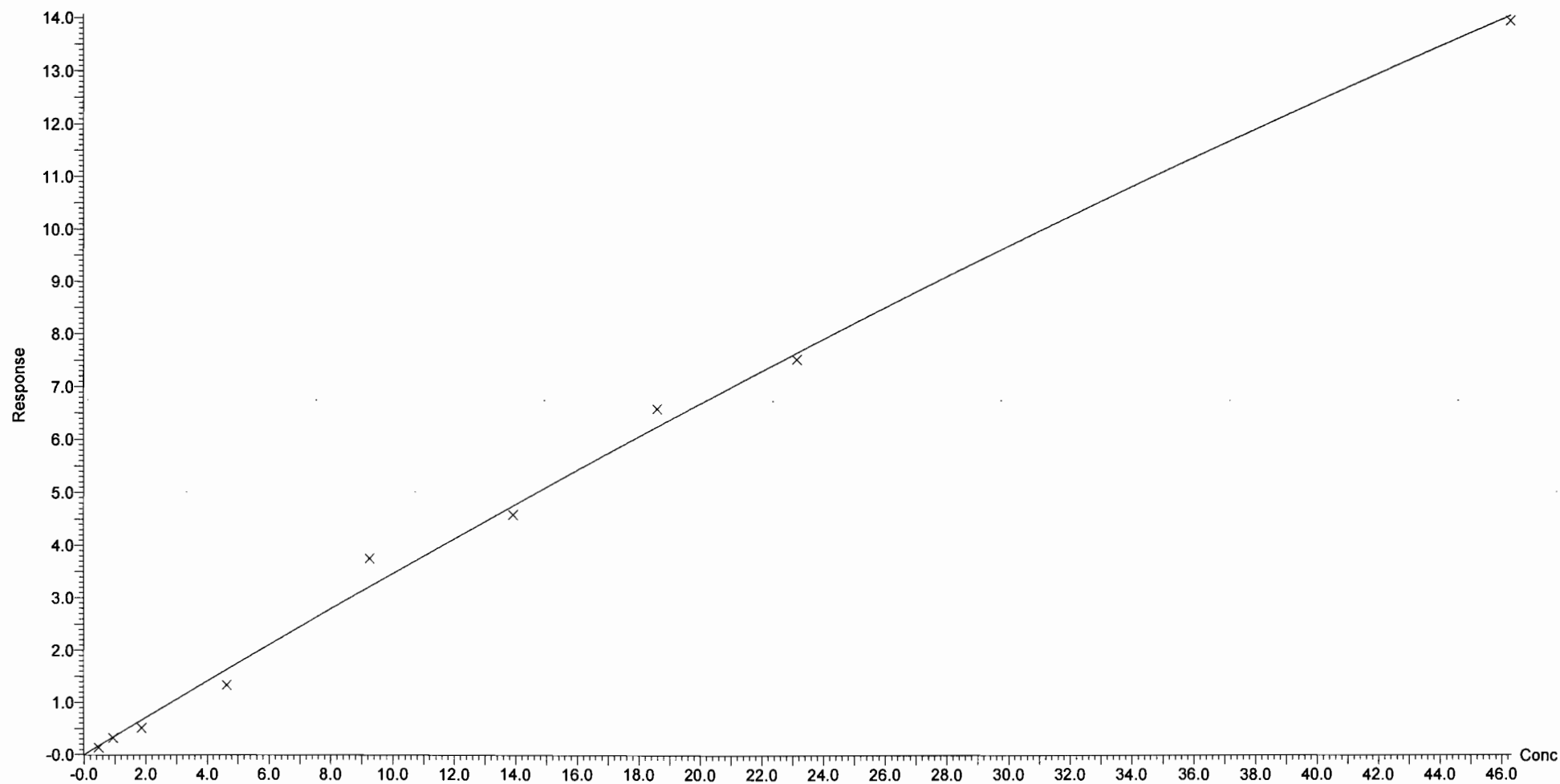
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time  
Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

Compound name: PFOS  
Coefficient of Determination:  $R^2 = 0.993048$   
Calibration curve:  $-0.0011599 * x^2 + 0.357599 * x$   
Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None

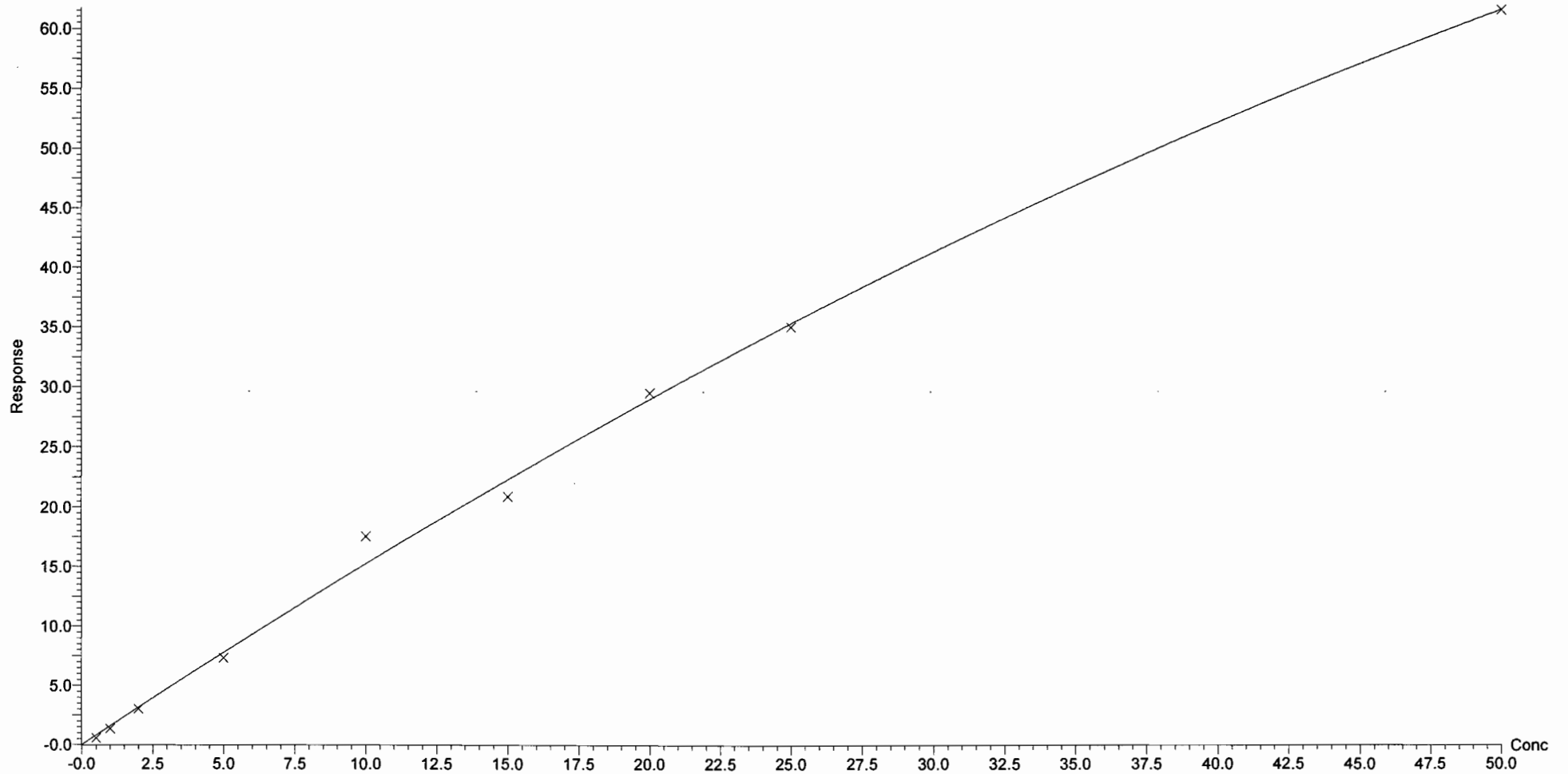


Dataset: U:\G1.PRO\Results\2017\170508G1-crv.qld

Last Altered: Monday, May 08, 2017 13:52:15 Pacific Daylight Time

Printed: Monday, May 08, 2017 13:53:03 Pacific Daylight Time

Compound name: PFNA  
Coefficient of Determination:  $R^2 = 0.995585$   
Calibration curve:  $-0.00717833 * x^2 + 1.59366 * x$   
Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time  
 Printed: Thursday, April 13, 2017 12:42:13 Pacific Daylight Time

Method: Untitled 13 Apr 2017 08:50:47

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_01.cdb 13 Apr 2017 12:34:50

New 21 4/13/17

Compound name: PFBS

Correlation coefficient:  $r = 0.999783$ ,  $r^2 = 0.999567$

Calibration curve:  $2.8207 * x + 8.02989e-005$

Response type: Internal Std ( Ref 7 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	170413G1_2	0.250	2.91	3.86e2	5.68e3	0.302	20.6	3.40
2	170413G1_3	0.500	2.91	6.77e2	6.83e3	0.439	-12.2	2.48
3	170413G1_4	1.00	2.91	1.47e3	6.78e3	0.964	-3.6	2.72
4	170413G1_5	2.00	2.89	2.88e3	6.61e3	1.93	-3.5	2.72
5	170413G1_6	5.00	2.91	8.03e3	7.49e3	4.75	-4.9	2.68
6	170413G1_7	10.0	2.91	1.42e4	6.01e3	10.4	4.4	2.95
7	170413G1_8	50.0	2.91	6.68e4	6.01e3	49.2	-1.5	2.78
8	170413G1_9	100	2.91	1.29e5	5.69e3	101	0.7	2.84

es 4/13/17  
 ✓ AC 4/13/17

Compound name: PFHpA

Correlation coefficient:  $r = 0.999047$ ,  $r^2 = 0.998095$

Calibration curve:  $1.92754 * x + 0.0959906$

Response type: Internal Std ( Ref 8 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	170413G1_2	0.250	3.80	4.81e2	1.02e4	0.257	2.9	2.37
2	170413G1_3	0.500	3.80	9.84e2	1.19e4	0.485	-3.0	2.06
3	170413G1_4	1.00	3.80	2.10e3	1.32e4	0.977	-2.3	1.98
4	170413G1_5	2.00	3.80	3.82e3	1.28e4	1.88	-6.0	1.86
5	170413G1_6	5.00	3.80	1.07e4	1.43e4	4.80	-4.0	1.87
6	170413G1_7	10.0	3.80	1.92e4	1.07e4	11.5	15.3	2.23
7	170413G1_8	50.0	3.80	9.23e4	1.24e4	48.4	-3.3	1.87
8	170413G1_9	100	3.80	1.74e5	1.12e4	100	0.5	1.94

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:42:13 Pacific Daylight Time

**Compound name: PFHxS**

Correlation coefficient:  $r = 0.998990$ ,  $r^2 = 0.997981$

Calibration curve:  $2.40269 * x + 0.0975035$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	3.92	2.83e2	5.24e3	0.241	-3.7	2.70
2	2 170413G1_3	0.500	3.92	6.53e2	6.49e3	0.483	-3.4	2.52
3	3 170413G1_4	1.00	3.92	1.31e3	6.68e3	0.982	-1.8	2.46
4	4 170413G1_5	2.00	3.92	2.29e3	6.33e3	1.84	-7.8	2.26
5	5 170413G1_6	5.00	3.92	6.93e3	6.81e3	5.25	5.0	2.54
6	6 170413G1_7	10.0	3.92	1.18e4	5.52e3	11.1	10.7	2.67
7	7 170413G1_8	50.0	3.92	6.21e4	6.21e3	52.0	4.1	2.50
8	8 170413G1_9	100	3.92	1.17e5	6.30e3	96.8	-3.2	2.33

**Compound name: PFOA**

Correlation coefficient:  $r = 0.999638$ ,  $r^2 = 0.999277$

Calibration curve:  $0.969815 * x + 0.0817292$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	4.21	5.56e2	2.05e4	0.266	6.4	1.36
2	2 170413G1_3	0.500	4.21	1.15e3	2.64e4	0.479	-4.3	1.09
3	3 170413G1_4	1.00	4.21	2.37e3	2.99e4	0.934	-6.6	0.988
4	4 170413G1_5	2.00	4.21	4.28e3	2.68e4	1.98	-1.1	1.00
5	5 170413G1_6	5.00	4.21	1.19e4	3.11e4	4.84	-3.3	0.954
6	6 170413G1_7	10.0	4.21	2.03e4	2.39e4	10.9	8.7	1.06
7	7 170413G1_8	50.0	4.21	1.07e5	2.72e4	50.7	1.4	0.985
8	8 170413G1_9	100	4.21	2.11e5	2.75e4	98.7	-1.3	0.958

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:42:13 Pacific Daylight Time

**Compound name: PFNA**

Correlation coefficient:  $r = 0.998376$ ,  $r^2 = 0.996755$

Calibration curve:  $3.06565 * x + 0.157679$

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	4.56	3.58e2	4.50e3	0.273	9.1	3.97
2	2 170413G1_3	0.500	4.55	1.13e3	8.38e3	0.501	0.2	3.39
3	3 170413G1_4	1.00	4.55	2.15e3	9.20e3	0.900	-10.0	2.92
4	4 170413G1_5	2.00	4.56	3.73e3	8.28e3	1.79	-10.6	2.82
5	5 170413G1_6	5.00	4.56	1.11e4	9.37e3	4.76	-4.8	2.95
6	6 170413G1_7	10.0	4.56	2.14e4	7.60e3	11.4	14.4	3.52
7	7 170413G1_8	50.0	4.56	1.16e5	9.00e3	52.7	5.3	3.23
8	8 170413G1_9	100	4.56	2.33e5	9.85e3	96.4	-3.6	2.96

**Compound name: PFOS**

Correlation coefficient:  $r = 0.999733$ ,  $r^2 = 0.999466$

Calibration curve:  $0.374993 * x + -0.0295857$

Response type: Internal Std ( Ref 12 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	0.250	4.61	2.31e1	4.25e3	0.260	3.8	0.271
2	2 170413G1_3	0.500	4.62	9.10e1	7.96e3	0.460	-8.0	0.286
3	3 170413G1_4	1.00	4.62	2.98e2	1.06e4	1.02	1.5	0.351
4	4 170413G1_5	2.00	4.62	4.79e2	8.66e3	1.92	-4.0	0.345
5	5 170413G1_6	5.00	4.62	1.41e3	9.15e3	5.22	4.4	0.386
6	6 170413G1_7	10.0	4.62	2.81e3	9.37e3	10.1	0.9	0.376
7	7 170413G1_8	50.0	4.62	1.43e4	9.27e3	51.4	2.9	0.385
8	8 170413G1_9	100	4.62	3.52e4	1.19e4	98.3	-1.7	0.369

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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**Compound name: 13C3-PFBS**

Response Factor: 0.45258

RRF SD: 0.0175204, Relative SD: 3.87123

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	2.91	5.68e3	1.24e4	12.6	1.2	0.458
2	2 170413G1_3	12.5	2.90	6.83e3	1.46e4	12.9	3.4	0.468
3	3 170413G1_4	12.5	2.90	6.78e3	1.45e4	12.9	3.5	0.468
4	4 170413G1_5	12.5	2.89	6.61e3	1.48e4	12.3	-1.5	0.446
5	5 170413G1_6	12.5	2.91	7.49e3	1.61e4	12.9	3.0	0.466
6	6 170413G1_7	12.5	2.91	6.01e3	1.30e4	12.7	1.9	0.461
7	7 170413G1_8	12.5	2.90	6.01e3	1.41e4	11.8	-5.7	0.427
8	8 170413G1_9	12.5	2.91	5.69e3	1.33e4	11.8	-5.8	0.427

**Compound name: 13C4-PFHpA**

Response Factor: 0.85684

RRF SD: 0.0369584, Relative SD: 4.31333

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.80	1.02e4	1.24e4	12.0	-4.3	0.820
2	2 170413G1_3	12.5	3.80	1.19e4	1.46e4	11.9	-4.7	0.817
3	3 170413G1_4	12.5	3.80	1.32e4	1.45e4	13.3	6.7	0.915
4	4 170413G1_5	12.5	3.80	1.28e4	1.48e4	12.6	1.2	0.867
5	5 170413G1_6	12.5	3.79	1.43e4	1.61e4	13.0	4.3	0.894
6	6 170413G1_7	12.5	3.80	1.07e4	1.30e4	12.0	-3.9	0.823
7	7 170413G1_8	12.5	3.80	1.24e4	1.41e4	12.8	2.5	0.878
8	8 170413G1_9	12.5	3.80	1.12e4	1.33e4	12.3	-1.8	0.841



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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**Compound name: 18O2-PFHxS**

Response Factor: 0.439536

RRF SD: 0.0188125, Relative SD: 4.28009

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.92	5.24e3	1.24e4	12.0	-3.9	0.422
2	2 170413G1_3	12.5	3.92	6.49e3	1.46e4	12.6	1.1	0.444
3	3 170413G1_4	12.5	3.92	6.68e3	1.45e4	13.1	4.9	0.461
4	4 170413G1_5	12.5	3.92	6.33e3	1.48e4	12.2	-2.8	0.427
5	5 170413G1_6	12.5	3.92	6.81e3	1.61e4	12.1	-3.4	0.424
6	6 170413G1_7	12.5	3.92	5.52e3	1.30e4	12.1	-3.6	0.424
7	7 170413G1_8	12.5	3.92	6.21e3	1.41e4	12.5	0.3	0.441
8	8 170413G1_9	12.5	3.92	6.30e3	1.33e4	13.4	7.4	0.472

**Compound name: 13C2-PFOA**

Response Factor: 3.36576

RRF SD: 0.156173, Relative SD: 4.64006

Response type: Internal Std ( Ref 15 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.21	2.05e4	6.21e3	12.2	-2.1	3.29
2	2 170413G1_3	12.5	4.21	2.64e4	7.91e3	12.4	-0.9	3.34
3	3 170413G1_4	12.5	4.21	2.99e4	8.27e3	13.4	7.6	3.62
4	4 170413G1_5	12.5	4.21	2.68e4	8.34e3	11.9	-4.6	3.21
5	5 170413G1_6	12.5	4.21	3.11e4	8.96e3	12.9	3.1	3.47
6	6 170413G1_7	12.5	4.21	2.39e4	6.78e3	13.1	4.6	3.52
7	7 170413G1_8	12.5	4.21	2.72e4	8.56e3	11.8	-5.7	3.17
8	8 170413G1_9	12.5	4.21	2.75e4	8.33e3	12.3	-1.9	3.30

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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**Compound name: 13C5-PFNA**

Response Factor: 0.908503

RRF SD: 0.0697745, Relative SD: 7.68015

Response type: Internal Std ( Ref 16 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.56	4.50e3	5.85e3	10.6	-15.3	0.769
2	2 170413G1_3	12.5	4.55	8.38e3	8.75e3	13.2	5.4	0.958
3	3 170413G1_4	12.5	4.55	9.20e3	9.33e3	13.6	8.5	0.985
4	4 170413G1_5	12.5	4.56	8.28e3	8.76e3	13.0	4.0	0.945
5	5 170413G1_6	12.5	4.55	9.37e3	1.02e4	12.6	0.7	0.915
6	6 170413G1_7	12.5	4.56	7.60e3	8.88e3	11.8	-5.8	0.856
7	7 170413G1_8	12.5	4.55	9.00e3	9.46e3	13.1	4.7	0.951
8	8 170413G1_9	12.5	4.55	9.85e3	1.11e4	12.2	-2.2	0.889

**Compound name: 13C8-PFOS**

Response Factor: 1.30448

RRF SD: 0.0408772, Relative SD: 3.13361

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.62	4.25e3	3.24e3	12.6	0.6	1.31
2	2 170413G1_3	12.5	4.61	7.96e3	5.92e3	12.9	3.1	1.34
3	3 170413G1_4	12.5	4.62	1.06e4	7.69e3	13.2	5.8	1.38
4	4 170413G1_5	12.5	4.62	8.66e3	6.74e3	12.3	-1.4	1.29
5	5 170413G1_6	12.5	4.62	9.15e3	7.06e3	12.4	-0.6	1.30
6	6 170413G1_7	12.5	4.62	9.37e3	7.43e3	12.1	-3.3	1.26
7	7 170413G1_8	12.5	4.62	9.27e3	7.17e3	12.4	-0.9	1.29
8	8 170413G1_9	12.5	4.62	1.19e4	9.46e3	12.1	-3.3	1.26

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**Compound name: 13C5-PFHxA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 13 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.28	2.06e4	2.06e4	12.5	0.0	1.00
2	2 170413G1_3	12.5	3.28	2.34e4	2.34e4	12.5	0.0	1.00
3	3 170413G1_4	12.5	3.28	2.38e4	2.38e4	12.5	0.0	1.00
4	4 170413G1_5	12.5	3.28	2.32e4	2.32e4	12.5	0.0	1.00
5	5 170413G1_6	12.5	3.28	2.53e4	2.53e4	12.5	0.0	1.00
6	6 170413G1_7	12.5	3.28	2.06e4	2.06e4	12.5	0.0	1.00
7	7 170413G1_8	12.5	3.28	2.16e4	2.16e4	12.5	0.0	1.00
8	8 170413G1_9	12.5	3.28	2.04e4	2.04e4	12.5	0.0	1.00

**Compound name: 13C3-PFHxS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	3.92	1.24e4	1.24e4	12.5	0.0	1.00
2	2 170413G1_3	12.5	3.92	1.46e4	1.46e4	12.5	0.0	1.00
3	3 170413G1_4	12.5	3.92	1.45e4	1.45e4	12.5	0.0	1.00
4	4 170413G1_5	12.5	3.92	1.48e4	1.48e4	12.5	0.0	1.00
5	5 170413G1_6	12.5	3.92	1.61e4	1.61e4	12.5	0.0	1.00
6	6 170413G1_7	12.5	3.92	1.30e4	1.30e4	12.5	0.0	1.00
7	7 170413G1_8	12.5	3.92	1.41e4	1.41e4	12.5	0.0	1.00
8	8 170413G1_9	12.5	3.92	1.33e4	1.33e4	12.5	0.0	1.00

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**Compound name: 13C8-PFOA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 15 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.21	6.21e3	6.21e3	12.5	0.0	1.00
2	2 170413G1_3	12.5	4.21	7.91e3	7.91e3	12.5	0.0	1.00
3	3 170413G1_4	12.5	4.21	8.27e3	8.27e3	12.5	0.0	1.00
4	4 170413G1_5	12.5	4.21	8.34e3	8.34e3	12.5	0.0	1.00
5	5 170413G1_6	12.5	4.21	8.96e3	8.96e3	12.5	0.0	1.00
6	6 170413G1_7	12.5	4.21	6.78e3	6.78e3	12.5	0.0	1.00
7	7 170413G1_8	12.5	4.21	8.56e3	8.56e3	12.5	0.0	1.00
8	8 170413G1_9	12.5	4.21	8.33e3	8.33e3	12.5	0.0	1.00

**Compound name: 13C9-PFNA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 16 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170413G1_2	12.5	4.56	5.85e3	5.85e3	12.5	0.0	1.00
2	2 170413G1_3	12.5	4.55	8.75e3	8.75e3	12.5	0.0	1.00
3	3 170413G1_4	12.5	4.55	9.33e3	9.33e3	12.5	0.0	1.00
4	4 170413G1_5	12.5	4.56	8.76e3	8.76e3	12.5	0.0	1.00
5	5 170413G1_6	12.5	4.55	1.02e4	1.02e4	12.5	0.0	1.00
6	6 170413G1_7	12.5	4.56	8.88e3	8.88e3	12.5	0.0	1.00
7	7 170413G1_8	12.5	4.55	9.46e3	9.46e3	12.5	0.0	1.00
8	8 170413G1_9	12.5	4.55	1.11e4	1.11e4	12.5	0.0	1.00

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**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc	%Dev	RRF
1	1 170413G1_2	12.5	4.62	3.24e3	3.24e3	12.5	0.0	1.00
2	2 170413G1_3	12.5	4.62	5.92e3	5.92e3	12.5	0.0	1.00
3	3 170413G1_4	12.5	4.62	7.69e3	7.69e3	12.5	0.0	1.00
4	4 170413G1_5	12.5	4.62	6.74e3	6.74e3	12.5	0.0	1.00
5	5 170413G1_6	12.5	4.62	7.06e3	7.06e3	12.5	0.0	1.00
6	6 170413G1_7	12.5	4.62	7.43e3	7.43e3	12.5	0.0	1.00
7	7 170413G1_8	12.5	4.62	7.17e3	7.17e3	12.5	0.0	1.00
8	8 170413G1_9	12.5	4.62	9.46e3	9.46e3	12.5	0.0	1.00

Dataset: Untitled

Last Altered: Thursday, April 13, 2017 13:53:17 Pacific Daylight Time

Printed: Thursday, April 13, 2017 13:53:49 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS\_6\_2trans\_LINEAR.mdb 13 Apr 2017 08:50:47

Calibration: U:\G1.pro\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_New.cdb 13 Apr 2017 12:34:50

Compound name: PFBS

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1	170413G1_1	IPA	13-Apr-17	09:26:27
2	170413G1_2	ST170413G1-1 PFC CS-2 17D1301	13-Apr-17	09:39:06
3	170413G1_3	ST170413G1-2 PFC CS-1 17D1302	13-Apr-17	09:51:40
4	170413G1_4	ST170413G1-3 PFC CS0 17D1303	13-Apr-17	10:04:14
5	170413G1_5	ST170413G1-4 PFC CS1 17D1304	13-Apr-17	10:19:55
6	170413G1_6	ST170413G1-5 PFC CS2 17D1305	13-Apr-17	10:32:30
7	170413G1_7	ST170413G1-6 PFC CS3 17D1306	13-Apr-17	10:45:07
8	170413G1_8	ST170413G1-7 PFC CS4 17D1307	13-Apr-17	10:57:43
9	170413G1_9	ST170413G1-8 PFC CS5 17D1308	13-Apr-17	11:10:56
10	170413G1_10	IPA	13-Apr-17	11:23:39
11	170413G1_11	SS170413G1-1 PFC SSS 17D1309	13-Apr-17	11:36:16
12	170413G1_12	IPA	13-Apr-17	11:48:50
13	170413G1_13	B7D0041-BS1 OPR 0.25	13-Apr-17	12:01:27
14	170413G1_14	IPA	13-Apr-17	12:14:01
15	170413G1_15	B7D0041-BLK1 Method Blank 0.25	13-Apr-17	12:26:40
16	170413G1_16	1700428-01 Kitchen 0.26378	13-Apr-17	12:39:16
17	170413G1_17	IPA	13-Apr-17	12:51:52
18	170413G1_18	ST170413G1-9 PFC CS3 17D1306	13-Apr-17	13:04:29
19	170413G1_19	IPA	13-Apr-17	13:17:06

Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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Method: Untitled 13 Apr 2017 08:50:47

Calibration: U:\G1.PRO\CurveDB\C18\_VAL-PFC\_Q1\_04-13-17\_6\_2Trans\_Old.cdb 13 Apr 2017 12:34:50

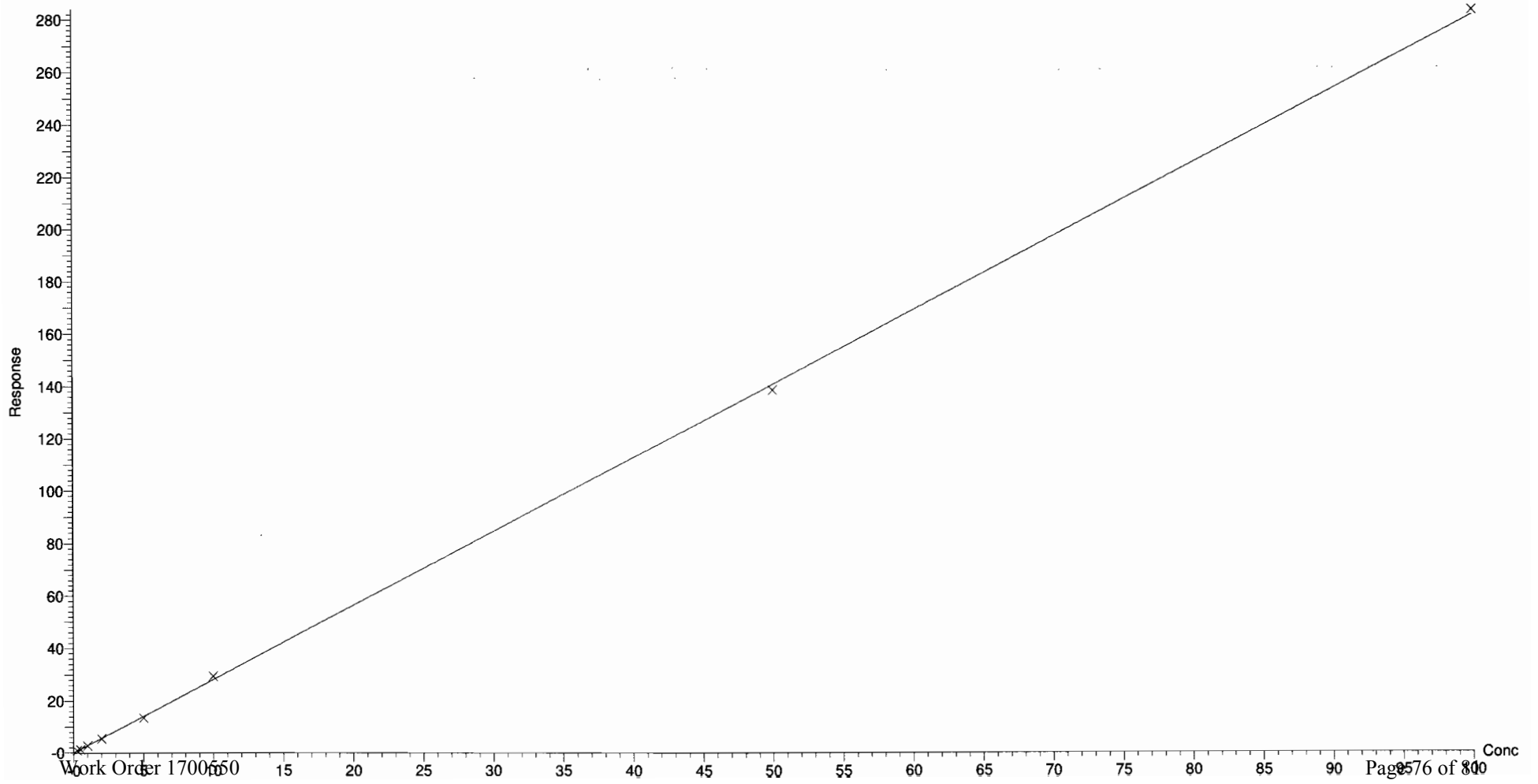
Compound name: PFBS

Correlation coefficient:  $r = 0.999783$ ,  $r^2 = 0.999567$

Calibration curve:  $2.8207 * x + 8.02989e-005$

Response type: Internal Std ( Ref 7 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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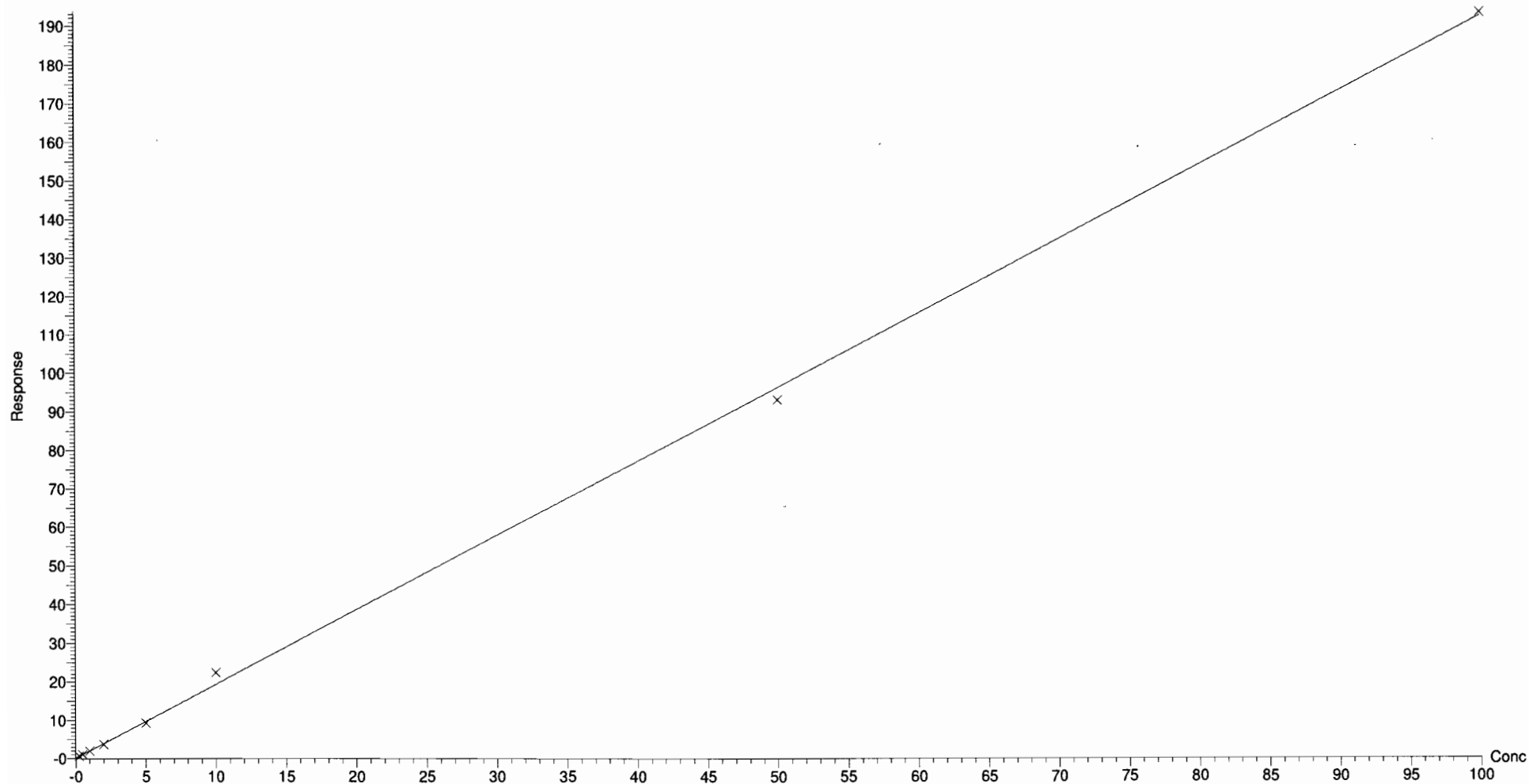
Compound name: PFHpA

Correlation coefficient:  $r = 0.999047$ ,  $r^2 = 0.998095$

Calibration curve:  $1.92754 * x + 0.0959906$

Response type: Internal Std ( Ref 8 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None





Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

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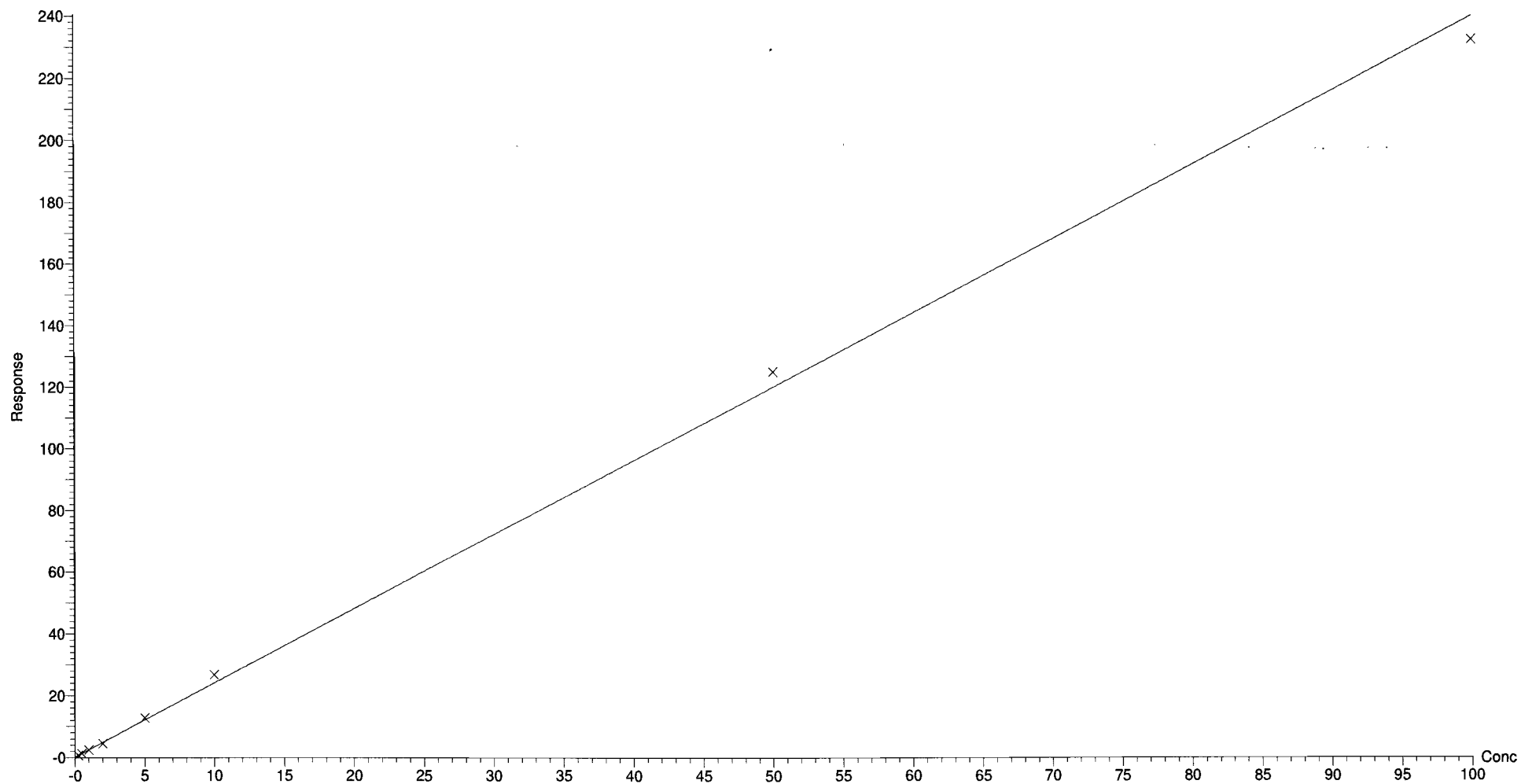
Compound name: PFHxS

Correlation coefficient:  $r = 0.998990$ ,  $r^2 = 0.997981$

Calibration curve:  $2.40269 * x + 0.0975035$

Response type: Internal Std ( Ref 9 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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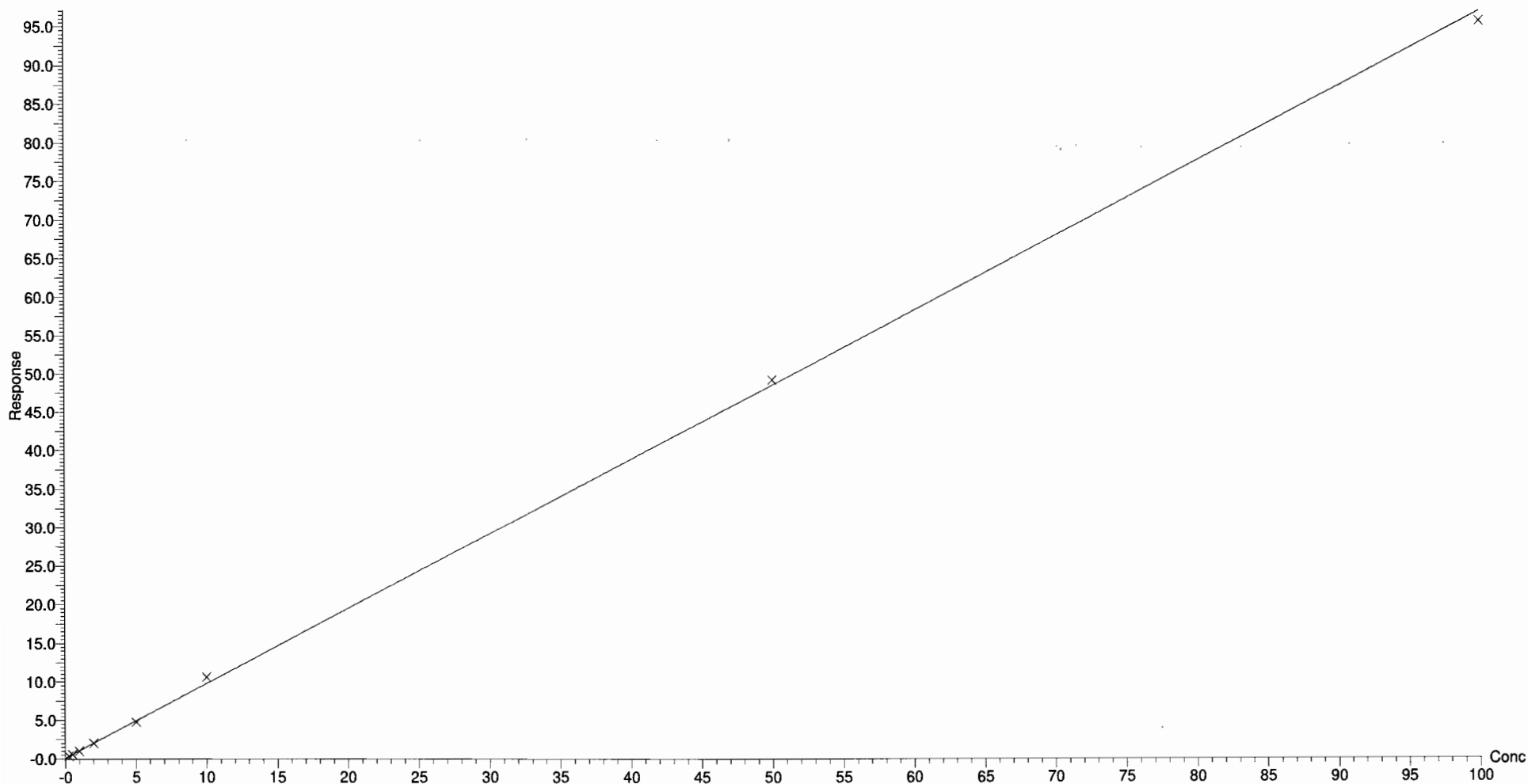
Compound name: PFOA

Correlation coefficient:  $r = 0.999638$ ,  $r^2 = 0.999277$

Calibration curve:  $0.969815 * x + 0.0817292$

Response type: Internal Std ( Ref 10 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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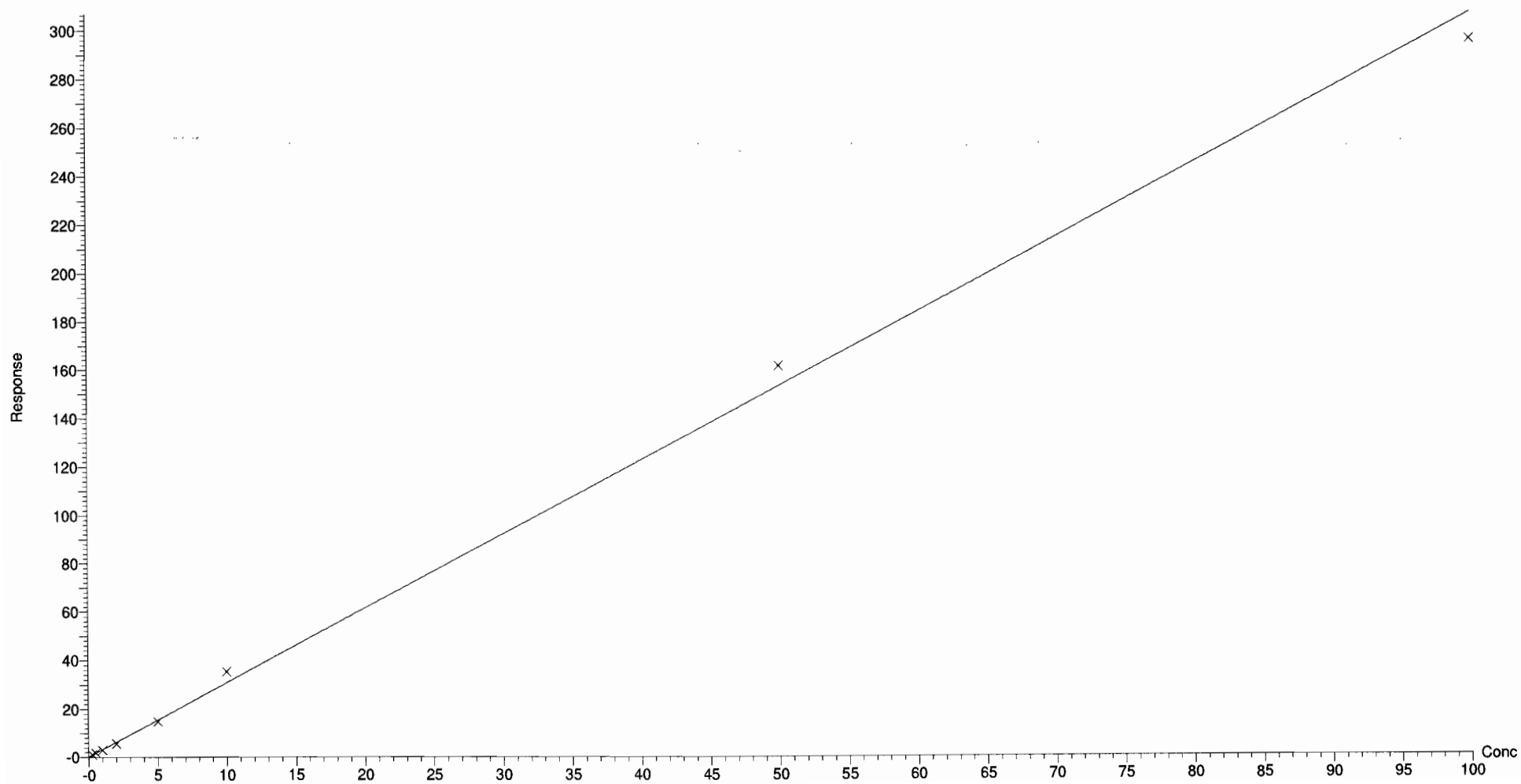
Compound name: PFNA

Correlation coefficient:  $r = 0.998376$ ,  $r^2 = 0.996755$

Calibration curve:  $3.06565 * x + 0.157679$

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170413G1\170413G1-CRV.qld

Last Altered: Thursday, April 13, 2017 12:34:50 Pacific Daylight Time

Printed: Thursday, April 13, 2017 12:41:32 Pacific Daylight Time

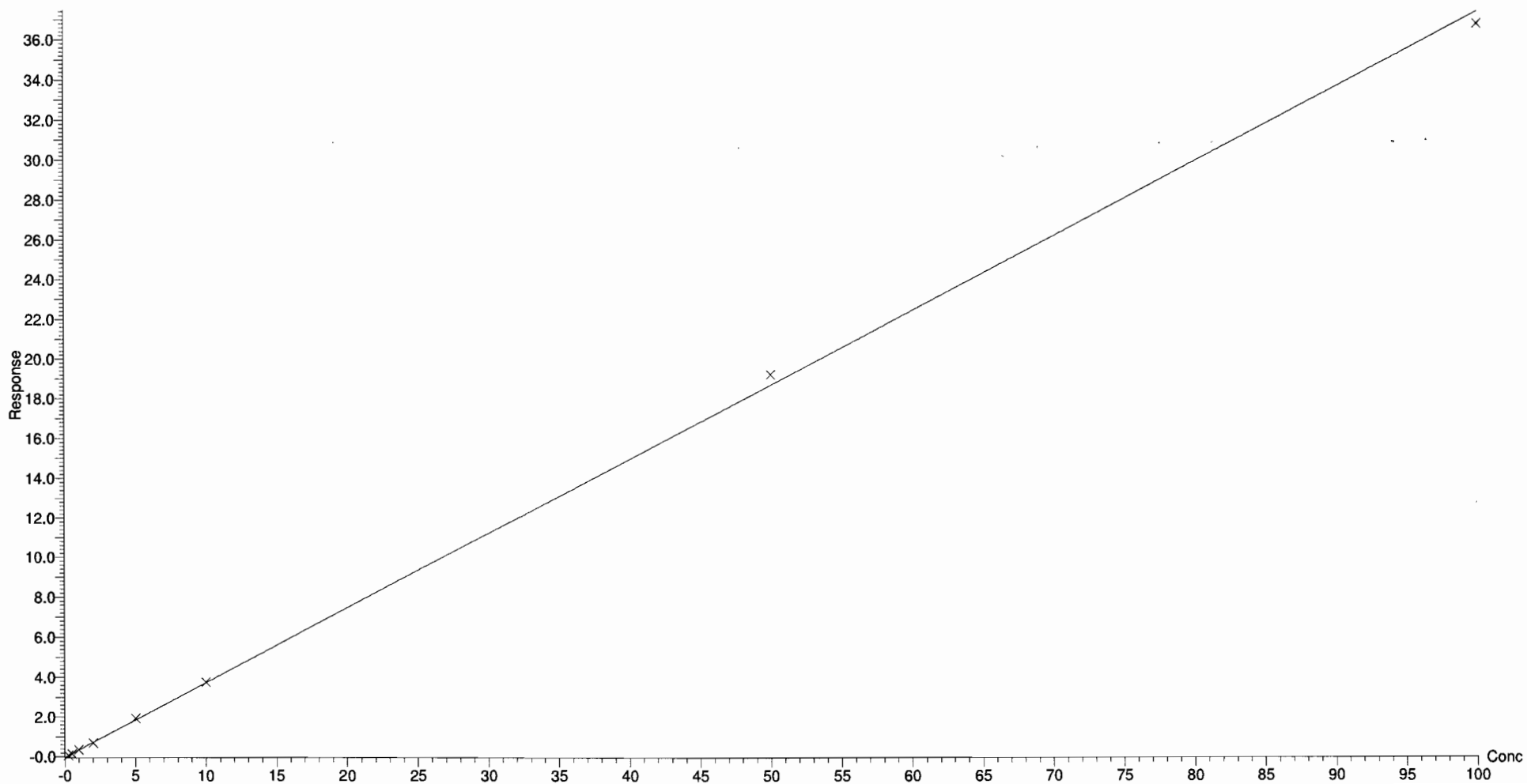
Compound name: PFOS

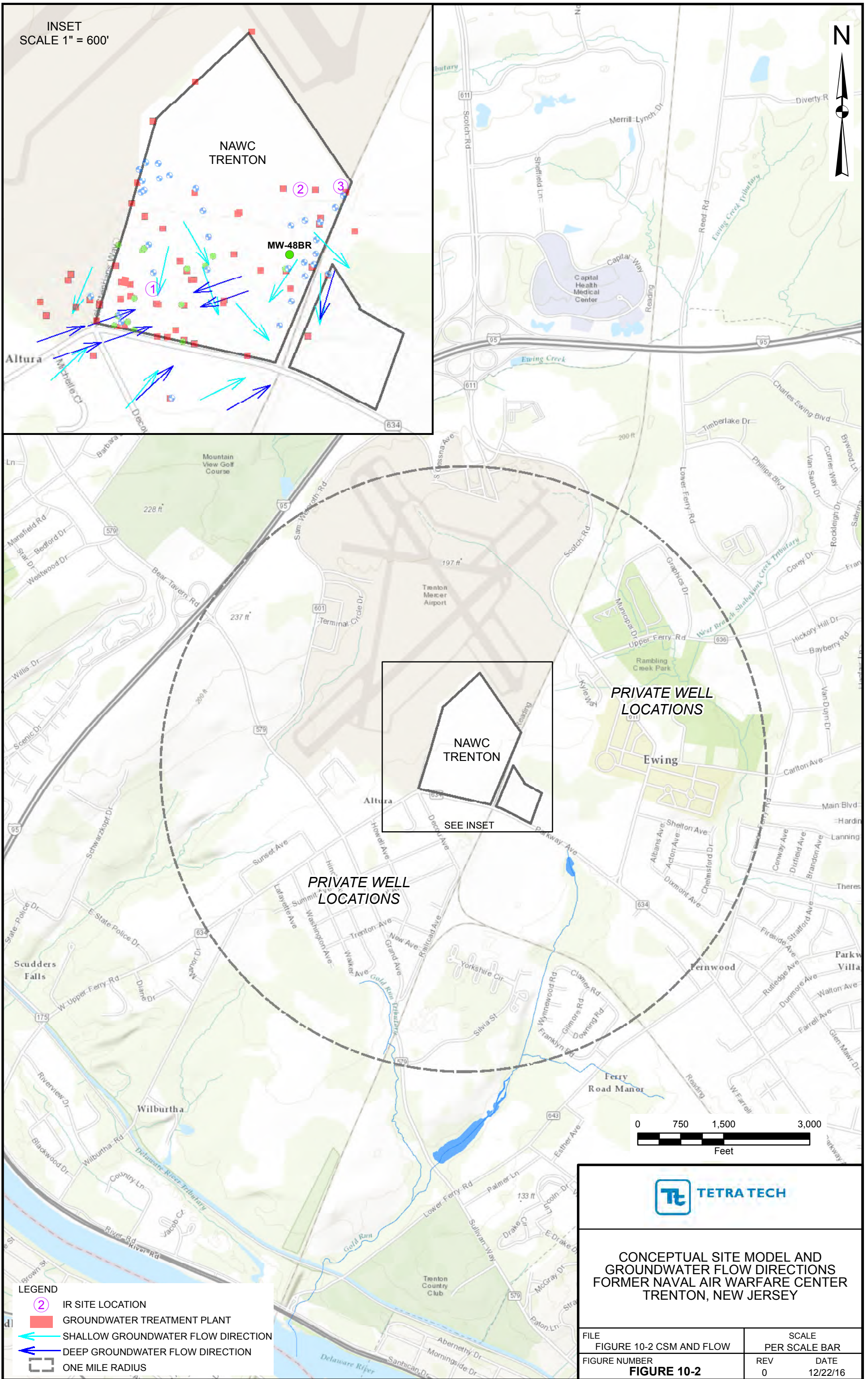
Correlation coefficient:  $r = 0.999733$ ,  $r^2 = 0.999466$

Calibration curve:  $0.374993 * x + -0.0295857$

Response type: Internal Std ( Ref 12 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None





INSET  
SCALE 1" = 600'

NAWC  
TRENTON

MW-48BR

Altura

NAWC  
TRENTON

SEE INSET

PRIVATE WELL  
LOCATIONS

Ewing

PRIVATE WELL  
LOCATIONS

Wilburtha



CONCEPTUAL SITE MODEL AND  
GROUNDWATER FLOW DIRECTIONS  
FORMER NAVAL AIR WARFARE CENTER  
TRENTON, NEW JERSEY

LEGEND

- ② IR SITE LOCATION
- GROUNDWATER TREATMENT PLANT
- SHALLOW GROUNDWATER FLOW DIRECTION
- DEEP GROUNDWATER FLOW DIRECTION
- ONE MILE RADIUS

FILE  
FIGURE 10-2 CSM AND FLOW

FIGURE NUMBER  
**FIGURE 10-2**

SCALE  
PER SCALE BAR

REV 0 DATE  
12/22/16