



**Groundwater Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 1700458**

*Naval Air Station Oceana
Virginia Beach, Virginia*

July 2019

April 26, 2017

Vista Work Order No. 1700458

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

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 15, 2017. This sample set was analyzed on a rush turn-around time.

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

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

Sincerely,



Martha Maier
Laboratory Director



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

Vista Work Order No. 1700458

Case Narrative

Sample Condition on Receipt:

Six aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. As requested, sample "IDW-AQ-01-0417" was assigned to a separate Work Order.

Analytical Notes:

Modified EPA Method 537

The samples contained particulate and were centrifuged prior to extraction.

The aqueous samples were extracted and analyzed for the UCMR list of 6 PFAS using Modified EPA Method 537.

Holding Times

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

Quality Control

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

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

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

As requested, an MS/MSD was performed on sample "OF-MW34D-0417".

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Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700458-01	OF-MW34D-0417	MS/MSD	14-Apr-17 09:35	15-Apr-17 09:22	HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
1700458-02	OF-MW32D-0417		14-Apr-17 10:50	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700458-03	OF-MW32DP-0417		14-Apr-17 10:55	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700458-04	OF-EB041417		14-Apr-17 11:00	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700458-05	OF-FB041417		14-Apr-17 11:05	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537			
Matrix: Aqueous		QC Batch: B7D0088		Lab Sample: B7D0088-BLK1		Date Analyzed: 19-Apr-17 17:15 Column: BEH C18			
Sample Size: 0.125 L		Date Extracted: 19-Apr-2017 15:40							
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	105	60 - 150	
PFHpA	ND	0.591	2.00	8.00		IS 13C4-PFHpA	88.0	60 - 150	
PFHxS	ND	0.947	2.00	8.00		IS 18O2-PFHxS	93.0	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	77.1	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	93.8	60 - 150	
PFNA	ND	0.810	2.00	8.00		IS 13C5-PFNA	94.4	50 - 150	

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: OPR**Modified EPA Method 537**

Matrix: Aqueous Sample Size: 0.125 L	QC Batch: B7D0088 Date Extracted: 19-Apr-2017 15:40	Lab Sample: B7D0088-BS1 Date Analyzed: 19-Apr-17 16:25 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	83.1	80.0	104	60 - 130	IS 13C3-PFBS	100	60 - 150
PFHpA	86.4	80.0	108	70 - 130	IS 13C4-PFHpA	84.9	60 - 150
PFHxS	87.8	80.0	110	70 - 130	IS 18O2-PFHxS	95.7	60 - 150
PFOA	82.8	80.0	104	70 - 130	IS 13C2-PFOA	76.8	60 - 150
PFOS	80.5	80.0	101	70 - 130	IS 13C8-PFOS	88.1	60 - 150
PFNA	91.2	80.0	114	50 - 130	IS 13C5-PFNA	92.7	50 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: OF-MW34D-0417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-01	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.125 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 9:35			Date Analyzed:	19-Apr-17 18:56	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	109	60 - 150	
PFHpA	ND	0.591	2.00	8.00		IS 13C4-PFHpA	78.1	60 - 150	
PFHxS	ND	0.947	2.00	8.00		IS 18O2-PFHxS	94.1	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	84.2	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	86.2	60 - 150	
PFNA	ND	0.810	2.00	8.00		IS 13C5-PFNA	94.6	50 - 150	

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.

Matrix Spike Results

Modified EPA Method 537

Source Client ID: OF-MW34D-0417	QC Batch: B7D0088	Lab Sample: B7D0088-MS1/B7D0088-MSD1
Source LabNumber: 1700458-01	Date Extracted: 19-Apr-2017 15:40	Date Analyzed: 19-Apr-17 19:09 Column: BEH C18
Matrix: Aqueous		19-Apr-17 19:21 Column: BEH C18
Sample Size: 0.119/0.120 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	83.8	102		83.3	103	0.976		60 - 130	25	IS 13C3-PFBS	104		110	
PFHpA	83.8	109		83.3	103	5.66		70 - 130	25	IS 13C4-PFHpA	80.3		86.6	
PFHxS	83.8	110		83.3	109	0.913		70 - 130	25	IS 18O2-PFHxS	92.9		97.7	
PFOA	83.8	107		83.3	93.9	13.0		70 - 130	25	IS 13C2-PFOA	81.3		93.3	
PFOS	83.8	100		83.3	96.6	3.46		70 - 130	25	IS 13C8-PFOS	88.7		89.7	
PFNA	83.8	114		83.3	115	0.873		50 - 130	25	IS 13C5-PFNA	89.2		98.9	

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: OF-MW32D-0417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-02	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.123 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 10:50			Date Analyzed:	19-Apr-17 19:34	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.82	4.07	8.15		IS 13C3-PFBS	107	60 - 150	
PFHpA	ND	0.602	2.03	8.15		IS 13C4-PFHpA	87.4	60 - 150	
PFHxS	ND	0.965	2.03	8.15		IS 18O2-PFHxS	95.5	60 - 150	
PFOA	ND	0.663	2.03	8.15		IS 13C2-PFOA	88.9	60 - 150	
PFOS	1.97	0.822	0.915	8.15	J	IS 13C8-PFOS	92.5	60 - 150	
PFNA	ND	0.825	2.03	8.15		IS 13C5-PFNA	89.5	50 - 150	

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: OF-MW32DP-0417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-03	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.122 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 10:55			Date Analyzed:	19-Apr-17 19:47	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.84	4.10	8.22		IS 13C3-PFBS	102	60 - 150	
PFHpA	ND	0.607	2.05	8.22		IS 13C4-PFHpA	86.6	60 - 150	
PFHxS	ND	0.973	2.05	8.22		IS 18O2-PFHxS	94.1	60 - 150	
PFOA	ND	0.669	2.05	8.22		IS 13C2-PFOA	82.1	60 - 150	
PFOS	2.10	0.829	0.922	8.22	J	IS 13C8-PFOS	75.6	60 - 150	
PFNA	ND	0.832	2.05	8.22		IS 13C5-PFNA	92.9	50 - 150	

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: OF-EB041417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-04	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.120 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 11:00			Date Analyzed:	19-Apr-17 20:38	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.86	4.17	8.32		IS 13C3-PFBS	104	60 - 150	
PFHpA	ND	0.615	2.08	8.32		IS 13C4-PFHpA	87.6	60 - 150	
PFHxS	ND	0.985	2.08	8.32		IS 18O2-PFHxS	96.3	60 - 150	
PFOA	ND	0.677	2.08	8.32		IS 13C2-PFOA	84.2	60 - 150	
PFOS	ND	0.840	0.938	8.32		IS 13C8-PFOS	99.0	60 - 150	
PFNA	ND	0.843	2.08	8.32		IS 13C5-PFNA	92.0	50 - 150	

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: OF-FB041417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-05	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.119 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 11:05			Date Analyzed:	19-Apr-17 20:50	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.88	4.20	8.41		IS 13C3-PFBS	101	60 - 150	
PFHpA	ND	0.621	2.10	8.41		IS 13C4-PFHpA	83.2	60 - 150	
PFHxS	ND	0.996	2.10	8.41		IS 18O2-PFHxS	98.5	60 - 150	
PFOA	ND	0.685	2.10	8.41		IS 13C2-PFOA	84.7	60 - 150	
PFOS	ND	0.849	0.945	8.41		IS 13C8-PFOS	85.5	60 - 150	
PFNA	ND	0.852	2.10	8.41		IS 13C5-PFNA	90.1	50 - 150	

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
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
South Carolina Department of Health	87002001
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

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 877-345-1113 ♦ (fax) 866-417-0548

31539

Send Results to:		Send Invoice to:		Analysis Requirements:								Lab Use Only:				
Name <u>TIFFANY HILL</u>		Name <u>SAME AS RESULTS</u>		SVOCs (PFCs) 537M01D 1700458 2.1°C								VOA Headspace		Y	N	NA
Company <u>CH2M</u>		Company _____										Field Filtered		Y	N	NA
Address <u>5701 CLEVELAND ST</u>		Address _____		Correct Containers		Y	N	NA								
City <u>VA BEACH</u>		City _____		Discrepancies		Y	N	NA								
State, Zip <u>VA, 23462</u>		State, Zip _____		Cust. Seals Intact		Y	N	NA								
Phone <u>541-768-3109</u>		Phone _____		Containers Intact		Y	N	NA								
Fax _____		Fax _____		Airbill #: _____												
E-mail <u>TIFFANY.HILL@CH2M</u>		E-mail _____		CAR #: _____												
Project No./Name:		Sampler's (Signature):														

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix										Comments	No. of Bottles	Lab Use Only Containers/Pres.
	4-14-17 0935	OF-MW34D-0417	AQ										125 mL	2	
	4-14-17 0935	OF-MW34D-0417-MS	AQ										125 mL	2	
	4-14-17 0935	OF-MW34D-0417-SD	AQ										125 mL	2	
	4-14-17 1050	OF-MW32D-0417	AQ										125 mL	2	
	4-14-17 1055	OF-MW32DP-0417	AQ										125 mL	2	
	4-14-17 1100	OF-EB041417	AQ										125 mL	2	
	4-14-17 1105	OF-FB041417	AQ										125 mL	2	
	* 4-14-17 1130	IDW-AQ-01-0417	AQ										125 mL	2	

Sample Kit Prep'd by: (Signature)	Date/Time 4/14/17 1420	Received By: (Signature)	Date/Time 04/16/17 0925	REMARKS: * WORK ORDER 1700459	Details: Page <u>1</u> of <u>1</u> Cooler No. <u>1</u> of <u>1</u> Date Shipped _____ Shipped By _____ Turnaround _____
Relinquished by: (Signature) _____	Date/Time _____	Received By: (Signature) _____	Date/Time _____		
Relinquished by: (Signature) _____	Date/Time _____	Received By: (Signature) _____	Date/Time _____		
Received for Laboratory by: (Signature) _____	Date/Time _____	Temperature _____			

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700458 TAT 14

Samples Arrival:	Date/Time <u>04/15/17 0922</u>	Initials: <u>BBB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>04/15/17 0941</u>	Initials: <u>BBB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>45</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: <u>1.8</u> (uncorrected)	Time: <u>0926</u>		Thermometer ID: IR-1
Temp °C: <u>2.1</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received? <u>A/B</u>	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk # <u>7862 4156 0319</u>	✓		
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:	Yes	No	<input checked="" type="checkbox"/> NA
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	<input checked="" type="checkbox"/> Return
	Retain	Dispose	

Comments: Sample label ID smudged and is difficult to read. The collection time was the only clear aspect of sample label. Which reads "1055" this is how sample was reconciled.

April 26, 2017

Vista Work Order No. 1700458

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

Dear Ms. Hill,

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

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

Sincerely,



Martha Maier
Laboratory Director



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Vista Work Order No. 1700458

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Initial Calibration.....	102

Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700458-01	OF-MW34D-0417	MS/MSD	14-Apr-17 09:35	15-Apr-17 09:22	HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
		MS/MSD			HDPE Bottle, 125 mL
1700458-02	OF-MW32D-0417		14-Apr-17 10:50	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700458-03	OF-MW32DP-0417		14-Apr-17 10:55	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700458-04	OF-EB041417		14-Apr-17 11:00	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700458-05	OF-FB041417		14-Apr-17 11:05	15-Apr-17 09:22	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537			
Matrix: Aqueous		QC Batch: B7D0088		Lab Sample: B7D0088-BLK1		Date Analyzed: 19-Apr-17 17:15 Column: BEH C18			
Sample Size: 0.125 L		Date Extracted: 19-Apr-2017 15:40							
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	105	60 - 150	
PFHpA	ND	0.591	2.00	8.00		IS 13C4-PFHpA	88.0	60 - 150	
PFHxS	ND	0.947	2.00	8.00		IS 18O2-PFHxS	93.0	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	77.1	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	93.8	60 - 150	
PFNA	ND	0.810	2.00	8.00		IS 13C5-PFNA	94.4	50 - 150	

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: OPR

Modified EPA Method 537

Matrix: Aqueous Sample Size: 0.125 L	QC Batch: B7D0088 Date Extracted: 19-Apr-2017 15:40	Lab Sample: B7D0088-BS1 Date Analyzed: 19-Apr-17 16:25 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	83.1	80.0	104	60 - 130	IS 13C3-PFBS	100	60 - 150
PFHpA	86.4	80.0	108	70 - 130	IS 13C4-PFHpA	84.9	60 - 150
PFHxS	87.8	80.0	110	70 - 130	IS 18O2-PFHxS	95.7	60 - 150
PFOA	82.8	80.0	104	70 - 130	IS 13C2-PFOA	76.8	60 - 150
PFOS	80.5	80.0	101	70 - 130	IS 13C8-PFOS	88.1	60 - 150
PFNA	91.2	80.0	114	50 - 130	IS 13C5-PFNA	92.7	50 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: OF-MW34D-0417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-01	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.125 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 9:35			Date Analyzed:	19-Apr-17 18:56	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	109	60 - 150	
PFHpA	ND	0.591	2.00	8.00		IS 13C4-PFHpA	78.1	60 - 150	
PFHxS	ND	0.947	2.00	8.00		IS 18O2-PFHxS	94.1	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	84.2	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	86.2	60 - 150	
PFNA	ND	0.810	2.00	8.00		IS 13C5-PFNA	94.6	50 - 150	

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.

Matrix Spike Results

Modified EPA Method 537

Source Client ID: OF-MW34D-0417	QC Batch: B7D0088	Lab Sample: B7D0088-MS1/B7D0088-MSD1
Source LabNumber: 1700458-01	Date Extracted: 19-Apr-2017 15:40	Date Analyzed: 19-Apr-17 19:09 Column: BEH C18
Matrix: Aqueous		19-Apr-17 19:21 Column: BEH C18
Sample Size: 0.119/0.120 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	83.8	102		83.3	103	0.976		60 - 130	25	IS 13C3-PFBS	104		110	
PFHpA	83.8	109		83.3	103	5.66		70 - 130	25	IS 13C4-PFHpA	80.3		86.6	
PFHxS	83.8	110		83.3	109	0.913		70 - 130	25	IS 18O2-PFHxS	92.9		97.7	
PFOA	83.8	107		83.3	93.9	13.0		70 - 130	25	IS 13C2-PFOA	81.3		93.3	
PFOS	83.8	100		83.3	96.6	3.46		70 - 130	25	IS 13C8-PFOS	88.7		89.7	
PFNA	83.8	114		83.3	115	0.873		50 - 130	25	IS 13C5-PFNA	89.2		98.9	

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: OF-MW32D-0417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-02	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.123 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 10:50			Date Analyzed:	19-Apr-17 19:34	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.82	4.07	8.15		IS 13C3-PFBS	107	60 - 150	
PFHpA	ND	0.602	2.03	8.15		IS 13C4-PFHpA	87.4	60 - 150	
PFHxS	ND	0.965	2.03	8.15		IS 18O2-PFHxS	95.5	60 - 150	
PFOA	ND	0.663	2.03	8.15		IS 13C2-PFOA	88.9	60 - 150	
PFOS	1.97	0.822	0.915	8.15	J	IS 13C8-PFOS	92.5	60 - 150	
PFNA	ND	0.825	2.03	8.15		IS 13C5-PFNA	89.5	50 - 150	

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: OF-MW32DP-0417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-03	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.122 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 10:55			Date Analyzed:	19-Apr-17 19:47	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.84	4.10	8.22		IS 13C3-PFBS	102	60 - 150	
PFHpA	ND	0.607	2.05	8.22		IS 13C4-PFHpA	86.6	60 - 150	
PFHxS	ND	0.973	2.05	8.22		IS 18O2-PFHxS	94.1	60 - 150	
PFOA	ND	0.669	2.05	8.22		IS 13C2-PFOA	82.1	60 - 150	
PFOS	2.10	0.829	0.922	8.22	J	IS 13C8-PFOS	75.6	60 - 150	
PFNA	ND	0.832	2.05	8.22		IS 13C5-PFNA	92.9	50 - 150	

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: OF-EB041417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-04	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.120 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 11:00			Date Analyzed:	19-Apr-17 20:38	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.86	4.17	8.32		IS 13C3-PFBS	104	60 - 150	
PFHpA	ND	0.615	2.08	8.32		IS 13C4-PFHpA	87.6	60 - 150	
PFHxS	ND	0.985	2.08	8.32		IS 18O2-PFHxS	96.3	60 - 150	
PFOA	ND	0.677	2.08	8.32		IS 13C2-PFOA	84.2	60 - 150	
PFOS	ND	0.840	0.938	8.32		IS 13C8-PFOS	99.0	60 - 150	
PFNA	ND	0.843	2.08	8.32		IS 13C5-PFNA	92.0	50 - 150	

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: OF-FB041417**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-05	Date Received:	15-Apr-2017 9:22
Project:		Sample Size:	0.119 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40
Date Collected:	14-Apr-2017 11:05			Date Analyzed:	19-Apr-17 20:50	Column:	BEH C18
Location:							

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.88	4.20	8.41		IS 13C3-PFBS	101	60 - 150	
PFHpA	ND	0.621	2.10	8.41		IS 13C4-PFHpA	83.2	60 - 150	
PFHxS	ND	0.996	2.10	8.41		IS 18O2-PFHxS	98.5	60 - 150	
PFOA	ND	0.685	2.10	8.41		IS 13C2-PFOA	84.7	60 - 150	
PFOS	ND	0.849	0.945	8.41		IS 13C8-PFOS	85.5	60 - 150	
PFNA	ND	0.852	2.10	8.41		IS 13C5-PFNA	90.1	50 - 150	

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
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
South Carolina Department of Health	87002001
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

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 877-345-1113 ♦ (fax) 866-417-0548

31539

Send Results to:		Send Invoice to:		Analysis Requirements:				Lab Use Only:			
Name <u>TIFFANY HILL</u>		Name <u>SAME AS RESULTS</u>		SVOCs (PFCs) 537MDE 1700458 2.1°C				VOA Headspace	Y	N	NA
Company <u>CH2M</u>		Company _____						Field Filtered	Y	N	NA
Address <u>5701 CLEVELAND ST</u>		Address _____						Correct Containers	Y	N	NA
City <u>VA BEACH</u>		City _____						Discrepancies	Y	N	NA
State, Zip <u>VA, 23462</u>		State, Zip _____						Cust. Seals Intact	Y	N	NA
Phone <u>541-768-3109</u>		Phone _____						Containers Intact	Y	N	NA
Fax _____		Fax _____		Airbill #: _____							
E-mail <u>TIFFANY.HILL@CH2M</u>		E-mail _____		CAR #: _____							
Project No./Name:				Sampler's (Signature):							

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix								Comments	No. of Bottles	Lab Use Only Containers/Pres.
	4-14-17 0935	OF-MW34D-0417	AQ								125 mL	2	
	4-14-17 0935	OF-MW34D-0417-MS	AQ								125 mL	2	
	4-14-17 0935	OF-MW34D-0417-SD	AQ								125 mL	2	
	4-14-17 1050	OF-MW32D-0417	AQ								125 mL	2	
	4-14-17 1055	OF-MW32DP-0417	AQ								125 mL	2	
	4-14-17 1100	OF-EB041417	AQ								125 mL	2	
	4-14-17 1105	OF-FB041417	AQ								125 mL	2	
	* 4-14-17 1130	IDW-AQ-01-0417	AQ								125 mL	2	

Sample Kit Prep'd by: (Signature)	Date/Time 4/14/17 1420	Received By: (Signature) 	Date/Time 04/16/17 0925	REMARKS: * WORK ORDER 1700459	Details: Page <u>1</u> of <u>1</u> Cooler No. <u>1</u> of <u>1</u> Date Shipped _____ Shipped By _____ Turnaround _____
Relinquished by: (Signature)	Date/Time	Received By: (Signature)			
Relinquished by: (Signature)	Date/Time	Received By: (Signature)			
Received for Laboratory by: (Signature)	Date/Time	Temperature			

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700458 TAT 14

Samples Arrival:	Date/Time <u>04/15/17 0922</u>	Initials: <u>BBB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>04/15/17 0941</u>	Initials: <u>BBB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>45</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: <u>1.8</u> (uncorrected)	Time: <u>0926</u>	Thermometer ID: IR-1	
Temp °C: <u>2.1</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received? <u>A/B</u>	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Airbill	Trk # <u>7862 4156 0319</u>	<input checked="" type="checkbox"/>	
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>
Preservation Documented:	<input type="checkbox"/> Na ₂ S ₂ O ₃	<input type="checkbox"/> Trizma	<input checked="" type="checkbox"/> NA
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
		<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose

Comments: Sample label ID smudged and is difficult to read. The collection time was the only clear aspect of sample label. Which reads "1055" this is how sample was reconciled.

EXTRACTION INFORMATION

Process Sheet
Workorder: **1700458**

Prep Expiration: 2017-Apr-28
Client: CH2M Hill

Workorder Due: 29-Apr-17 00:00

TAT: 14

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

Prep Batch: 8700088

Prep Data Entered: 4/20/17 AC
Date and Initials

Version: UCMR 3 (6 Analyte)

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700458-01	<input checked="" type="checkbox"/>	OF-MW34D-0417	15-Apr-17 09:22	WR-2 A-5	MS/MSD
1700458-02	<input checked="" type="checkbox"/>	OF-MW32D-0417	15-Apr-17 09:22	WR-2 A-5	
1700458-03	<input checked="" type="checkbox"/>	OF-MW32DP-0417	15-Apr-17 09:22	WR-2 A-5	
1700458-04	<input checked="" type="checkbox"/>	OF-EB041417	15-Apr-17 09:22	WR-2 A-5	
1700458-05	<input checked="" type="checkbox"/>	OF-FB041417	15-Apr-17 09:22	WR-2 A-5	

Vista PM:Martha Maier

Vial Box ID: Monkey Business

Sample Reconciled By: BP 4/18/17

Percent Solids



Project: B700088

Balance ID: NA

Sample ID	Chemist: <u>NA</u> Date: <u> </u> Time: <u> </u>		Chemist: <u>NA</u> Date: <u> </u> Time: <u> </u>		Chemist/Date <u>BP 4.18.17</u>	
	Boat Wt.	Sample + Boat Wt.	Residue + Boat Wt.	pH before	pH* after	Cl
1700458-1 A (B)				6	2	0
- 1 B (B)				6	2	0
- 1 C (B)				6	2	0
- 2 (B)				6	2	0
- 3 (B)				6	2	0
- 4 (A)				5	2	0
- 5 (A)				5	2	0
1700459-1 (B)				6	2	0
1700463-1 (B)				6	2	0
- 2 (B)				6	2	0
- 3 (B)				6	2	0
			<u>BP 4.18.17</u>			

Procedure:

- Tare the balance.
- Record Boat Weight.
- Add 2 - 10 g of sample.
- Record Wet Wt. + Boat Wt.
- Dry in oven overnight at 107°C.
- Tare the balance.
- Record Residue + Boat Wt.

Notes:

- Ⓐ Added 2 drops HCl to adjust pH to 2 BP 4.18.17
- Ⓑ Added 3 drops HCl to adjust pH to 2
- Methods 8280, 613, 1613, 8290, 1614 - pH < 9
- Methods 1668/PCN - pH 2-3
- NCASI 551 - pH 1

Batch: B7D0088

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1700458-01	0.12495	N/A	N/A	1000	19-Apr-17 15:40	HAC			Aqueous	537M PFAS
1700458-01	0.12495			1000	19-Apr-17 15:40	HAC			Aqueous	537M PFAS DOD (LOQ as
1700458-02	0.12269			1000	19-Apr-17 15:40	HAC			Aqueous	537M PFAS DOD (LOQ as
1700458-03	0.12172			1000	19-Apr-17 15:40	HAC			Aqueous	537M PFAS DOD (LOQ as
1700458-04	0.12014			1000	19-Apr-17 15:40	HAC			Aqueous	537M PFAS DOD (LOQ as
1700458-05	0.11887			1000	19-Apr-17 15:40	HAC			Aqueous	537M PFAS DOD (LOQ as
1700459-01	0.12399			1000	19-Apr-17 15:40	HAC			Aqueous	537M PFAS DOD (LOQ as
1700463-01	0.11365			1000	19-Apr-17 15:40	HAC			Groundwater	537M PFAS
1700463-02	0.1167			1000	19-Apr-17 15:40	HAC			Groundwater	537M PFAS
1700463-03	0.11235			1000	19-Apr-17 15:40	HAC			Groundwater	537M PFAS
B7D0088-BLK1	0.125			1000	19-Apr-17 15:40	HAC				QC
B7D0088-BS1	0.125			1000	19-Apr-17 15:40	HAC	17C1521	10 ✓		QC
B7D0088-MS1	0.11932			1000	19-Apr-17 15:40	HAC	17C1521	10 ✓		QC
B7D0088-MSD1	0.12004			1000	19-Apr-17 15:40	HAC	17C1521	10 -		QC

HAC 4/20/17

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS

Method: 537M PFAS DOD (LOO as mR)

B7D0088

Chemist: E. Schneider

Prep Date/Time: 18-Apr-17 15:40

19
of 4/19/17

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"/>	B7D0088-BLK1	NA	NA	(0.125)	28 HC 4/19/17	HC 4/19/17	BP 4/19/17
<input type="checkbox"/>	B7D0088-BS1	↓	↓	↓			
<input type="checkbox"/>	B7D0088-MS1 1700458-01 (A)	146.14	26.82	0.11932	↓	↓	↓
<input type="checkbox"/>	B7D0088-MSD1 1700458-01 (A)	146.91	26.90	0.12001			
<input type="checkbox"/>	1700458-01 (A)	151.85	26.90	0.12495			
<input type="checkbox"/>	1700458-02 (A)	149.54	26.85	0.12269			
<input type="checkbox"/>	1700458-03 (A)	148.56	26.84	0.12172			
<input type="checkbox"/>	1700458-04 (A)	147.21	27.07	0.12014			
<input type="checkbox"/>	1700458-05 (A)	145.73	26.80	0.11887			
<input type="checkbox"/>	1700459-01 (A)	150.81	26.82	0.12399			
<input type="checkbox"/>	1700463-01	130.48	16.83	0.11365			
<input type="checkbox"/>	1700463-02 (A)	133.56	16.86	0.11670			
<input type="checkbox"/>	1700463-03 (A)	128.98	HC 4/19/17 16.63	0.11235			

(A) Sample centrifuged to remove particulate BP 4.18.17

IS Name 17D0403, 10µL (V6)	NS Name 17C1521, 10µL (V2)	RS Name 17D0604, 10µL (V5)	SPE Chem: Strata X-AW 33µm 200mg/6mL	Check Out: HC 4/19/17
			Ele SOLV: 0.5% NH ₄ OH in MeOH : MeOH	Check In: N/A
			Final Volume(s) 1 mL	Balance ID: HRMS-8

Comments: Assume 1 g = 1 mL

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-10.qld

Last Altered: Tuesday, April 25, 2017 12:47:47 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 12:50:27 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170419G3_10, Date: 19-Apr-2017, Time: 17:15:30

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	4.379e0	1.610e4		0.125	2.88	0.108	
2	5 PFHpA	363 > 318.9	1.260e1	1.007e4		0.125	3.78	0.0343	
3	6 PFHxS	398.8 > 79.8	4.317e1	4.892e3		0.125	3.91		
4	8 PFOA	412.8 > 369	1.273e2	1.958e4		0.125	4.20		
5	10 PFOS	498.7 >79.8		8.806e3		0.125			
6	11 PFNA	462.8 > 418.8		1.735e4		0.125			
7	14 13C3-PFBA	215.9 > 171.8	1.755e4	1.748e4	1.168	0.125	1.65	85.9	85.9
8	15 13C3-PFPeA	266>221.8	7.257e3	2.106e4	0.379	0.125	2.62	90.8	90.8
9	16 13C3-PFBS	301.8 > 79.7	1.610e4	2.106e4	0.728	0.125	2.88	105	105
10	17 13C2-PFHxA	315 > 269.8	6.917e3	2.106e4	0.860	0.125	3.26	38.2	95.5
11	18 13C4-PFHpA	367.2 > 321.8	1.007e4	1.191e4	0.961	0.125	3.78	88.0	88.0
12	19 18O2-PFHxS	403 > 102.6	4.892e3	1.191e4	0.442	0.125	3.90	93.0	93.0
13	20 13C2-6:2 FTS	428.8 > 408.8	7.340e3	7.856e3	1.162	0.125	4.15	80.4	80.4
14	21 13C2-PFOA	414.9 > 369.7	1.958e4	7.856e3	3.233	0.125	4.20	77.1	77.1
15	22 13C8-PFOS	506.7 > 79.6	8.806e3	7.346e3	1.277	0.125	4.60	93.8	93.8
16	23 13C5-PFNA	467.8 > 422.8	1.735e4	1.820e4	1.010	0.125	4.54	94.4	94.4
17	24 13C2-PFDA	514.8 > 469.7	1.653e4	8.590e3	2.247	0.125	4.84	85.6	85.6
18	25 13C2-8:2 FTS	529.1 > 508.7	2.335e3	8.590e3	0.335	0.125	4.82	81.1	81.1
19	26 13C4-PFBA	216.9 > 171.8	1.748e4	1.748e4	1.000	0.125	1.65	100	100
20	27 13C5-PFHxA	317.9 > 272.9	2.106e4	2.106e4	1.000	0.125	3.26	100	100
21	28 13C3-PFHxS	401.8 > 79.8	1.191e4	1.191e4	1.000	0.125	3.90	100	100
22	29 13C8-PFOA	421.3 > 376	7.856e3	7.856e3	1.000	0.125	4.19	100	100
23	30 13C4-PFOS	503.0 > 79.9	7.346e3	7.346e3	1.000	0.125	4.60	100	100
24	31 13C9-PFNA	471.8 > 426.8	1.820e4	1.820e4	1.000	0.125	4.54	100	100
25	32 13C6-PFDA	519.1 > 473.7	8.590e3	8.590e3	1.000	0.125	4.84	100	100
26	33 Total PFBS	298.8 > 79.7		4.892e3		0.125		0.108	
27	34 Total PFHxS	398.8 > 79.8		4.892e3		0.125			
28	35 Total PFOA	412.8 > 369		1.958e4		0.125			
29	36 Total PFOS	498.7 >79.8		8.806e3		0.125			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-10.qld

Last Altered: Tuesday, April 25, 2017 12:47:47 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 12:50:27 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170419G3_10, Date: 19-Apr-2017, Time: 17:15:30

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.88	4.379	16104.576	0.1

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.91	43.167	4892.053	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	127.323	19583.197	

Total PFOS

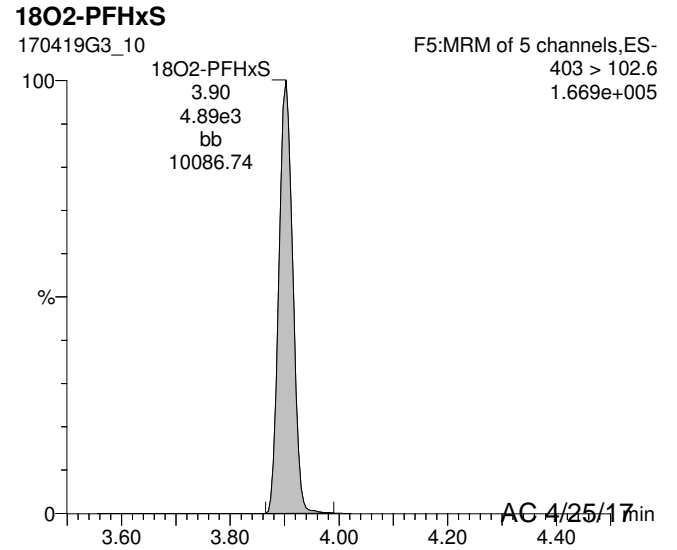
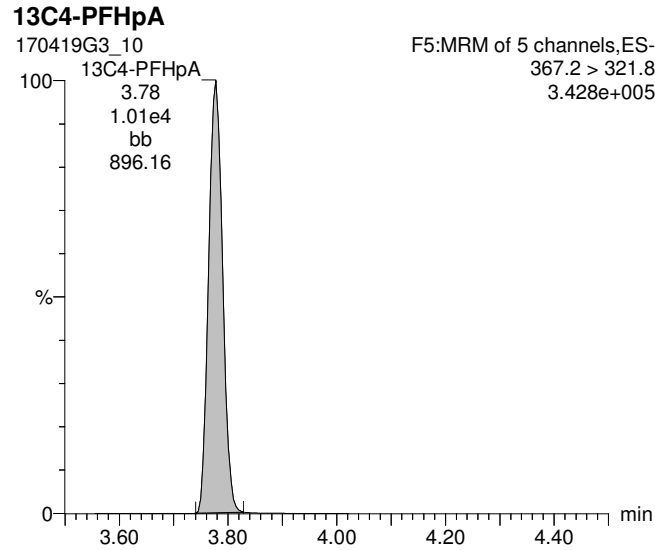
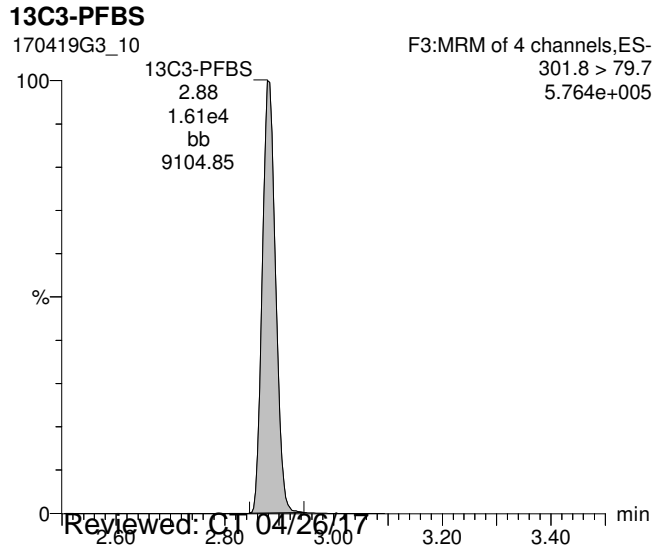
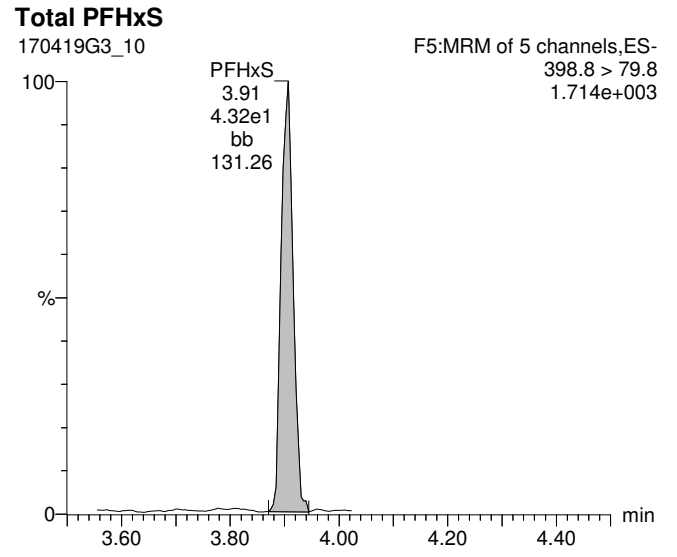
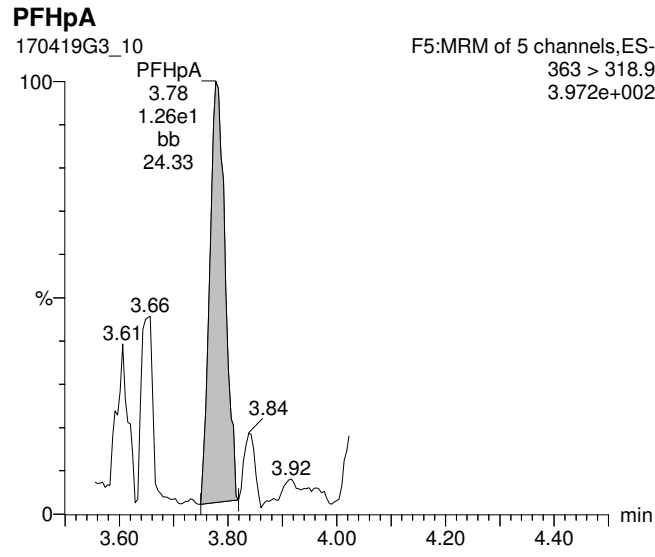
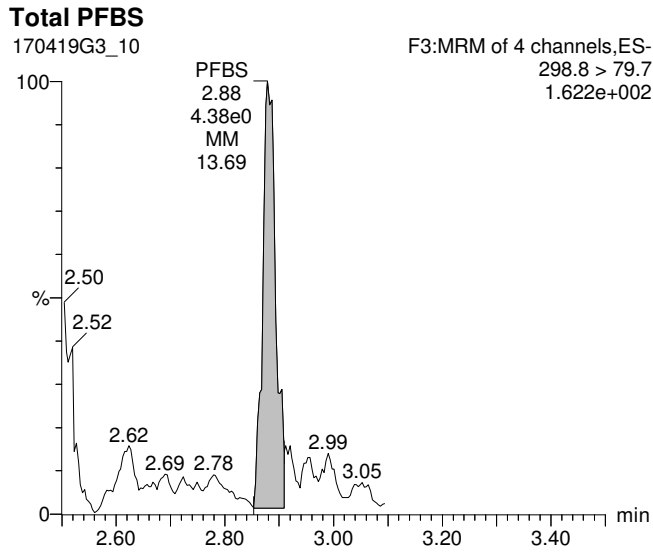
#	Name	Trace	RT	Area	IS Area	Conc.
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Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-10.qld

Last Altered: Tuesday, April 25, 2017 12:47:47 Pacific Daylight Time
Printed: Tuesday, April 25, 2017 12:50:27 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170419G3_10, Date: 19-Apr-2017, Time: 17:15:30, Instrument: , Lab: , User:



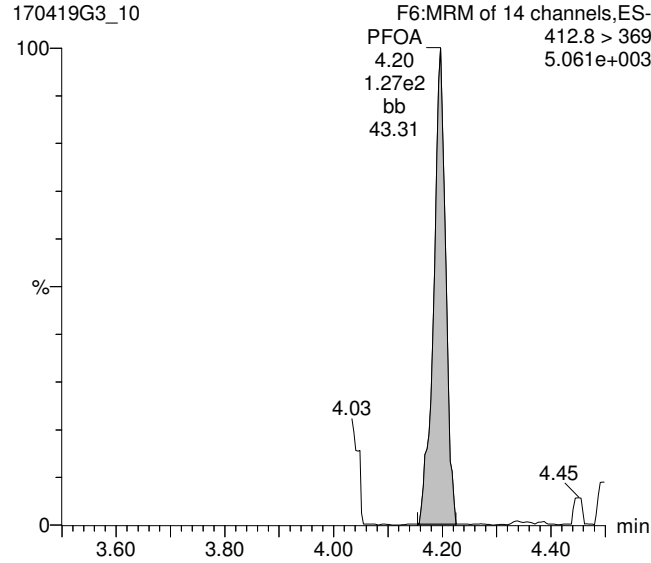
Reviewed: 01/04/25/17
Work Order 1700458

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-10.qld

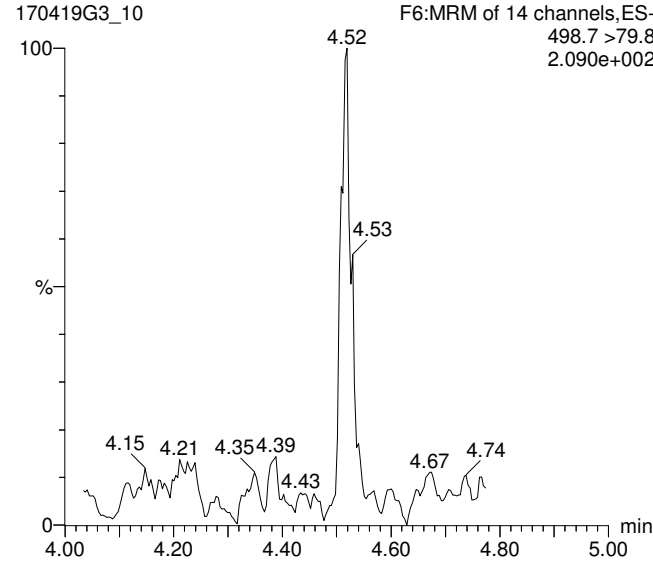
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Printed: Tuesday, April 25, 2017 12:50:27 Pacific Daylight Time

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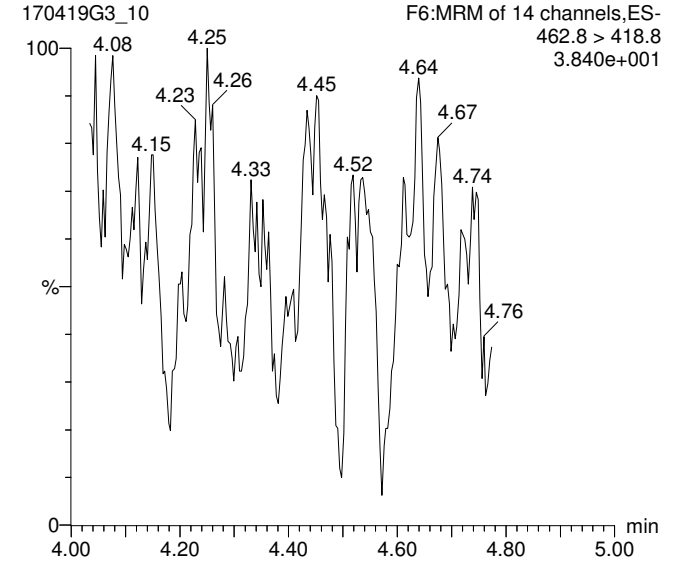
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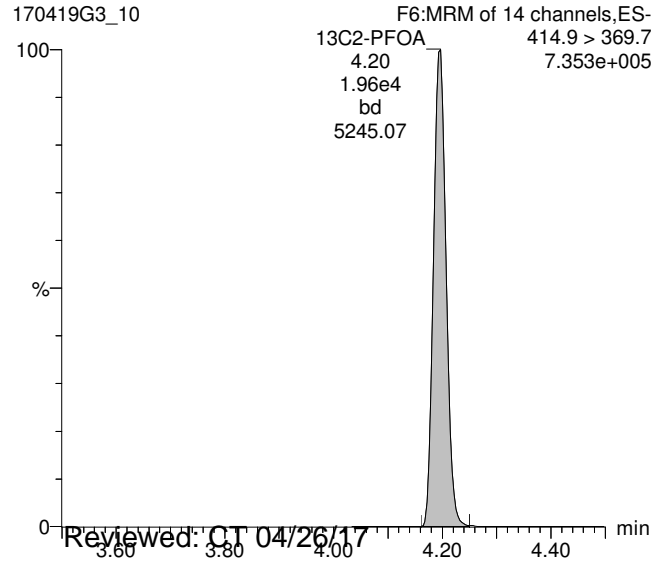
Total PFOS



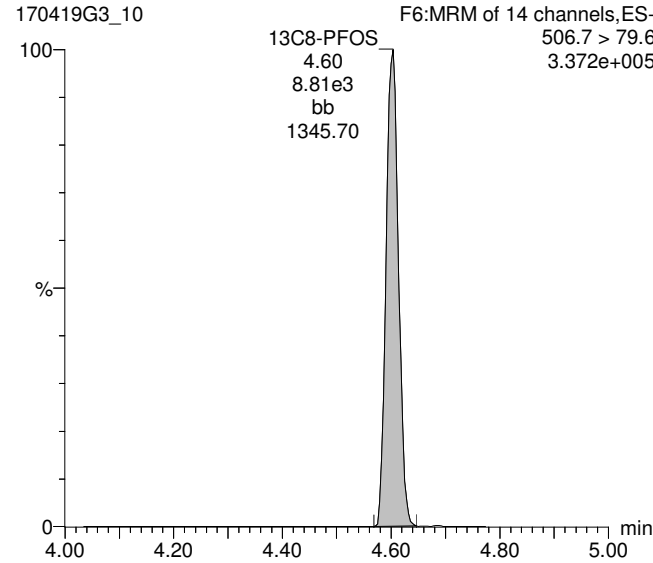
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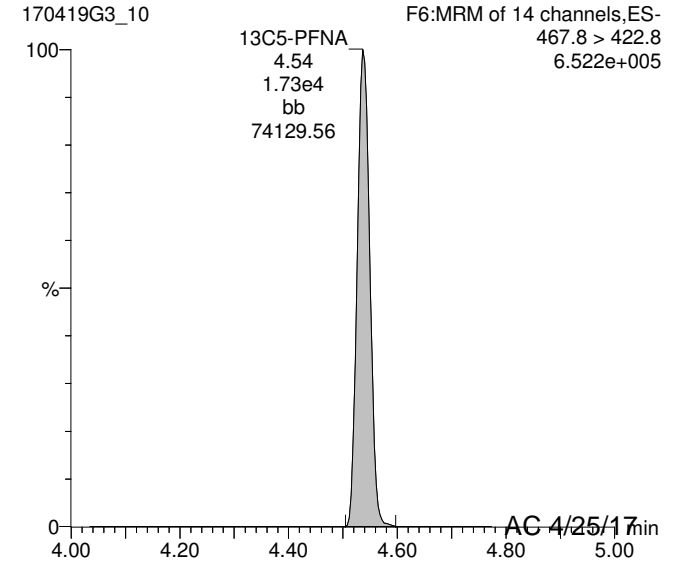
13C2-PFOA



13C8-PFOS



13C5-PFNA



Reviewed: 01/04/26/17

AC 4/25/17

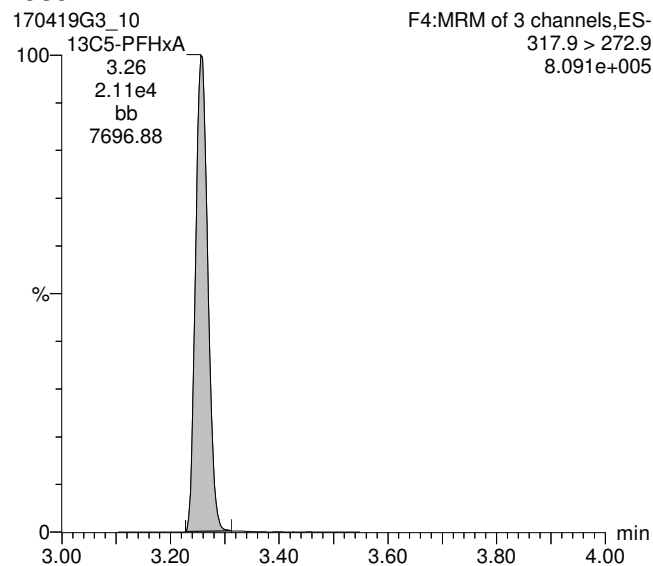
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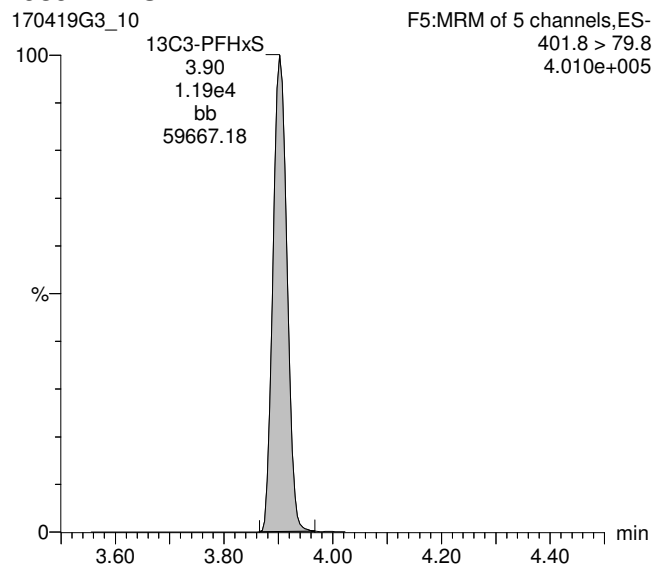
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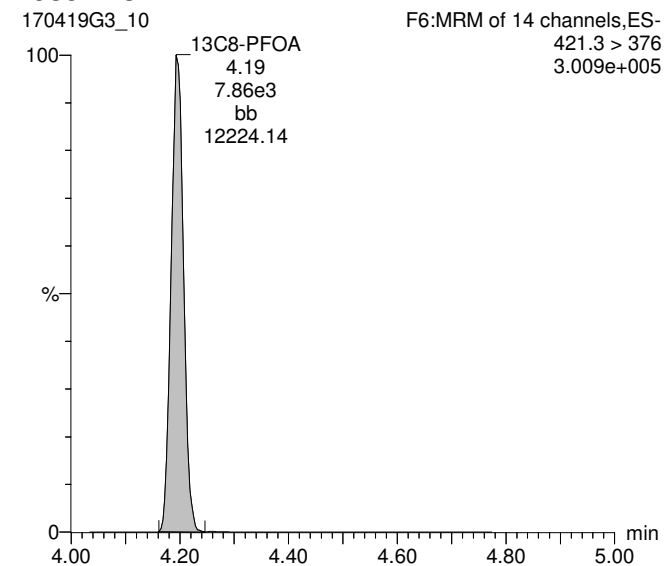
13C5-PFHxA



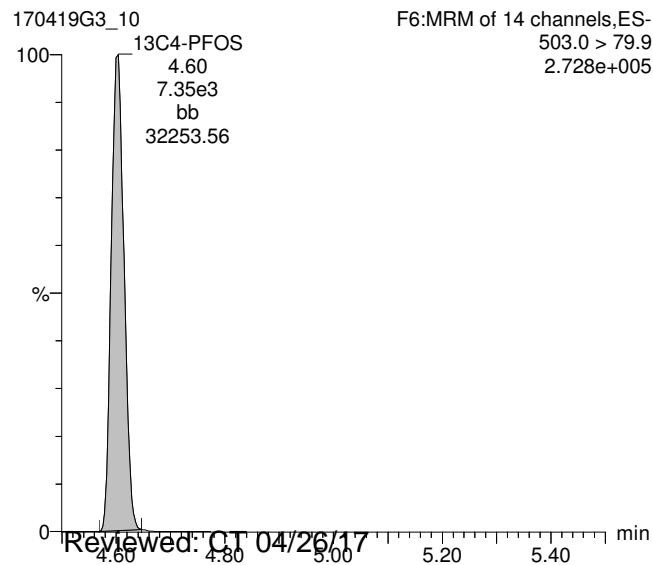
13C3-PFHxS



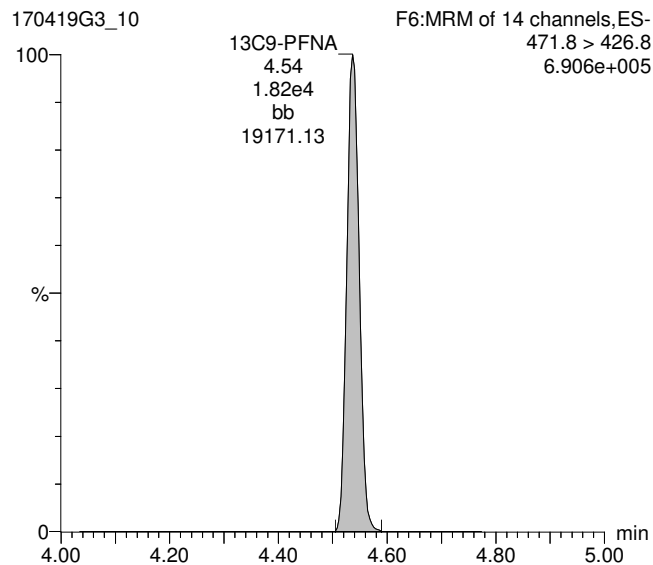
13C8-PFOA



13C4-PFOS



13C9-PFNA



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-6.qld

Last Altered: Tuesday, April 25, 2017 12:40:46 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 12:41:08 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-BS1 OPR 0.125, Description: OPR, Name: 170419G3_6, Date: 19-Apr-2017, Time: 16:25:02

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	1.205e4	1.628e4		0.125	2.89	83.1	104
2	5 PFHpA	363 > 318.9	1.770e4	1.079e4		0.125	3.78	86.4	108
3	6 PFHxS	398.8 > 79.8	1.177e4	5.593e3		0.125	3.91	87.8	110
4	8 PFOA	412.8 > 369	1.713e4	2.220e4		0.125	4.20	82.8	104
5	10 PFOS	498.7 >79.8	9.070e3	9.887e3		0.125	4.60	80.5	101
6	11 PFNA	462.8 > 418.8	1.529e4	1.924e4		0.125	4.54	91.2	114
7	14 13C3-PFBA	215.9 > 171.8	1.706e4	1.764e4	1.168	0.125	1.66	82.8	82.8
8	15 13C3-PFPeA	266>221.8	7.190e3	2.236e4	0.379	0.125	2.63	84.7	84.7
9	16 13C3-PFBS	301.8 > 79.7	1.628e4	2.236e4	0.728	0.125	2.89	100	100
10	17 13C2-PFHxA	315 > 269.8	7.353e3	2.236e4	0.860	0.125	3.26	38.2	95.6
11	18 13C4-PFHpA	367.2 > 321.8	1.079e4	1.324e4	0.961	0.125	3.78	84.9	84.9
12	19 18O2-PFHxS	403 > 102.6	5.593e3	1.324e4	0.442	0.125	3.90	95.7	95.7
13	20 13C2-6:2 FTS	428.8 > 408.8	9.911e3	8.944e3	1.162	0.125	4.15	95.4	95.4
14	21 13C2-PFOA	414.9 > 369.7	2.220e4	8.944e3	3.233	0.125	4.20	76.8	76.8
15	22 13C8-PFOS	506.7 > 79.6	9.887e3	8.784e3	1.277	0.125	4.60	88.1	88.1
16	23 13C5-PFNA	467.8 > 422.8	1.924e4	2.055e4	1.010	0.125	4.54	92.7	92.7
17	24 13C2-PFDA	514.8 > 469.7	1.946e4	9.684e3	2.247	0.125	4.84	89.4	89.4
18	25 13C2-8:2 FTS	529.1 > 508.7	3.427e3	9.684e3	0.335	0.125	4.81	106	106
19	26 13C4-PFBA	216.9 > 171.8	1.764e4	1.764e4	1.000	0.125	1.66	100	100
20	27 13C5-PFHxA	317.9 > 272.9	2.236e4	2.236e4	1.000	0.125	3.26	100	100
21	28 13C3-PFHxS	401.8 > 79.8	1.324e4	1.324e4	1.000	0.125	3.90	100	100
22	29 13C8-PFOA	421.3 > 376	8.944e3	8.944e3	1.000	0.125	4.19	100	100
23	30 13C4-PFOS	503.0 > 79.9	8.784e3	8.784e3	1.000	0.125	4.60	100	100
24	31 13C9-PFNA	471.8 > 426.8	2.055e4	2.055e4	1.000	0.125	4.54	100	100
25	32 13C6-PFDA	519.1 > 473.7	9.684e3	9.684e3	1.000	0.125	4.84	100	100
26	33 Total PFBS	298.8 > 79.7		5.593e3		0.125		83.1	
27	34 Total PFHxS	398.8 > 79.8		5.593e3		0.125		87.8	
28	35 Total PFOA	412.8 > 369		2.220e4		0.125		82.8	
29	36 Total PFOS	498.7 >79.8		9.887e3		0.125		80.5	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-6.qld

Last Altered: Tuesday, April 25, 2017 12:40:46 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 12:41:08 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-BS1 OPR 0.125, Description: OPR, Name: 170419G3_6, Date: 19-Apr-2017, Time: 16:25:02

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.89	12053.730	16281.854	83.1

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.91	11772.970	5593.144	87.8

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	17130.508	22200.641	82.8

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.60	9069.591	9887.260	80.5

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-6.qld

Last Altered: Tuesday, April 25, 2017 12:40:46 Pacific Daylight Time

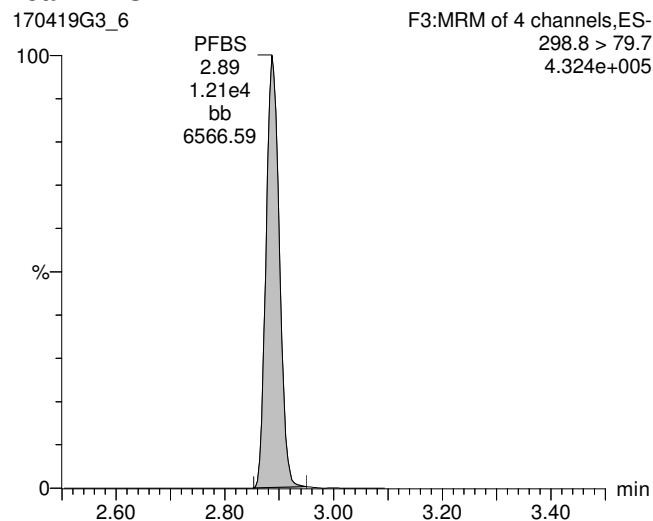
Printed: Tuesday, April 25, 2017 12:41:08 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

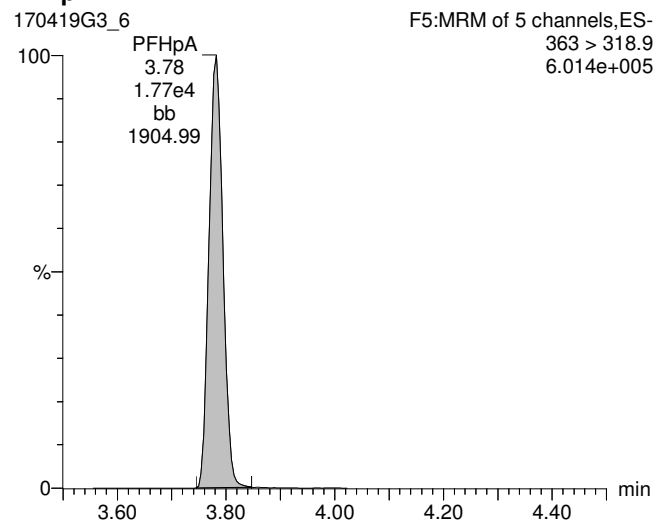
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-BS1 OPR 0.125, Description: OPR, Name: 170419G3_6, Date: 19-Apr-2017, Time: 16:25:02, Instrument: , Lab: , User:

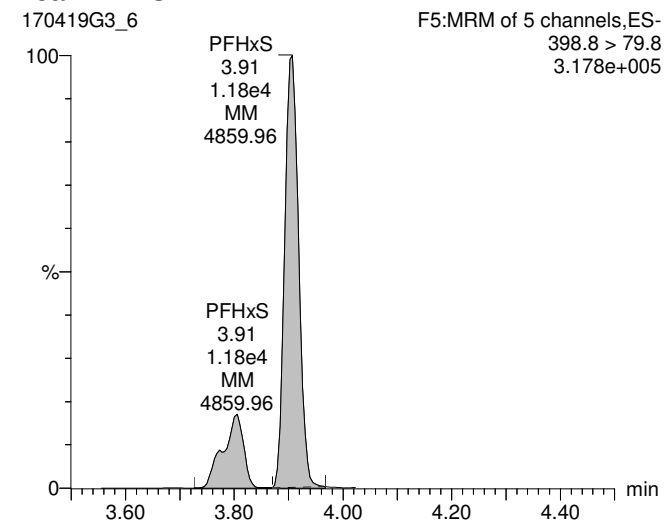
Total PFBS



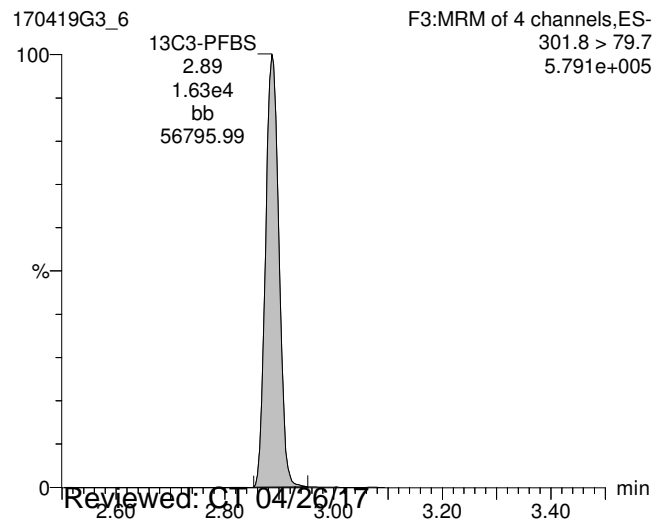
PFHpA



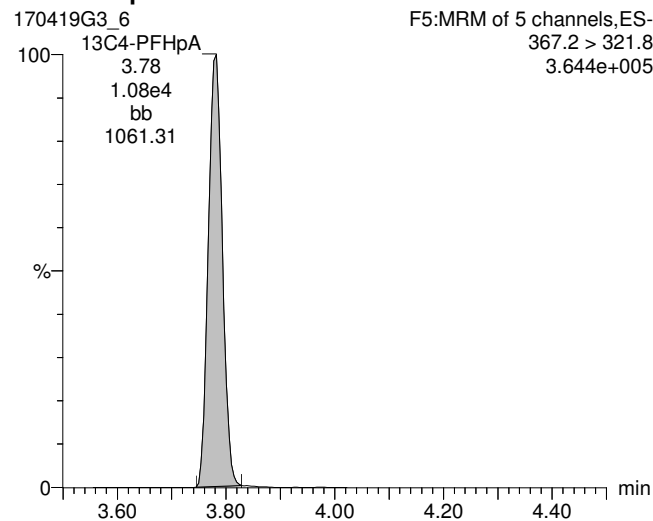
Total PFHxS



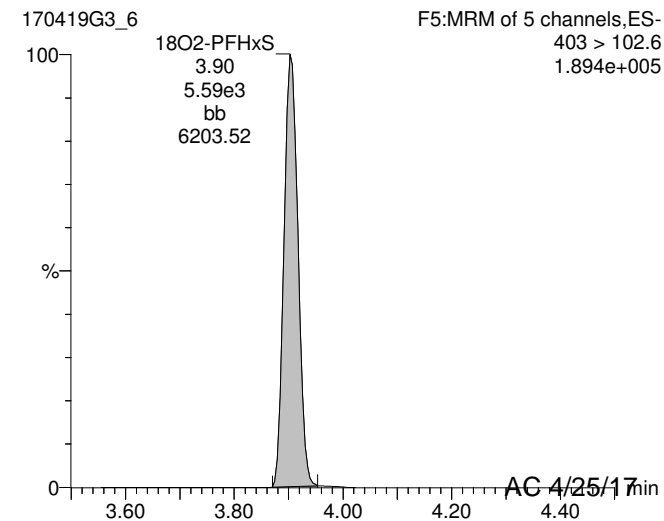
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



Reviewed: 01/04/25/17

Work Order 1700458

AC 4/25/17

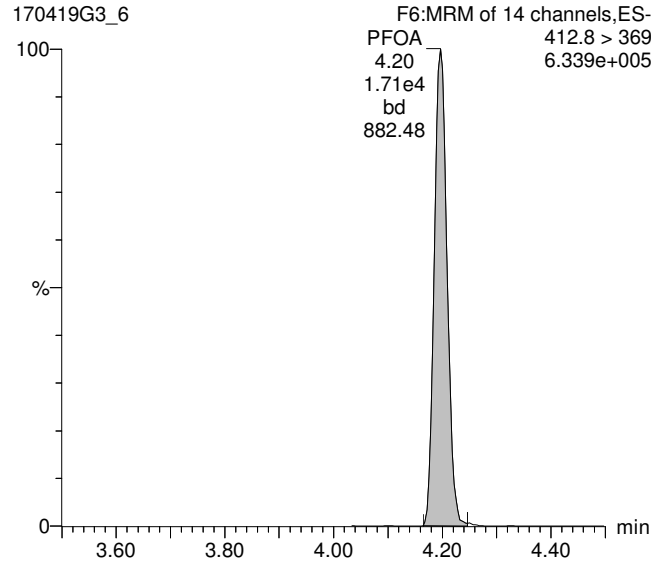
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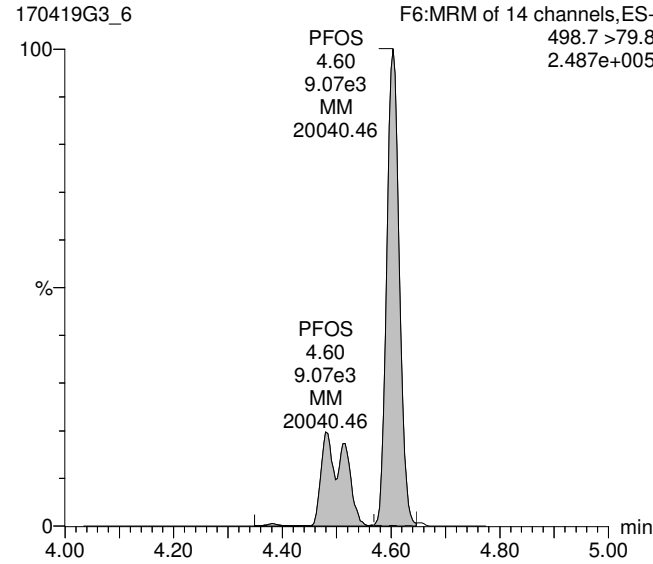
Printed: Tuesday, April 25, 2017 12:41:08 Pacific Daylight Time

ID: B7D0088-BS1 OPR 0.125, Description: OPR, Name: 170419G3_6, Date: 19-Apr-2017, Time: 16:25:02, Instrument: , Lab: , User:

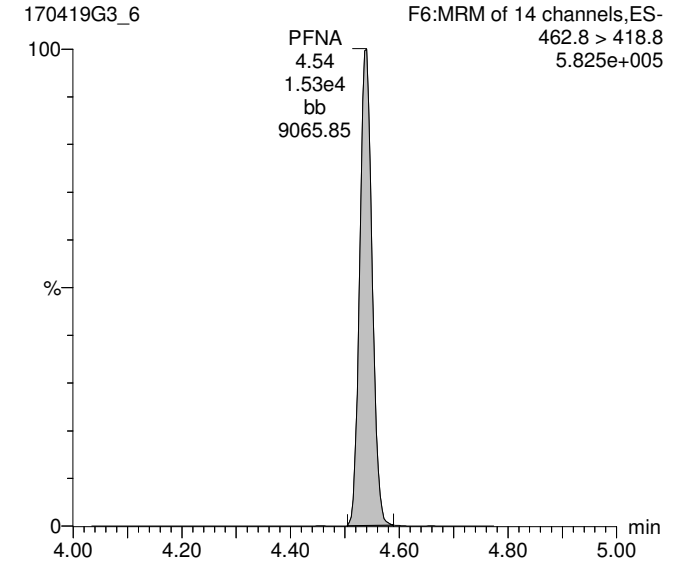
Total PFOA



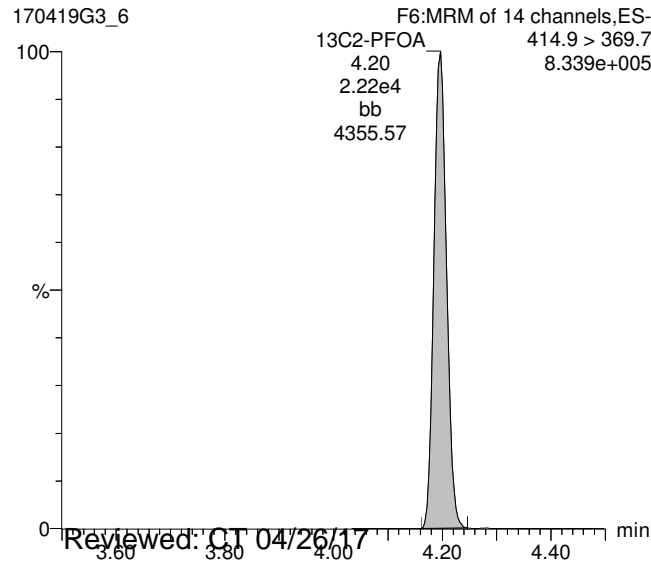
Total PFOS



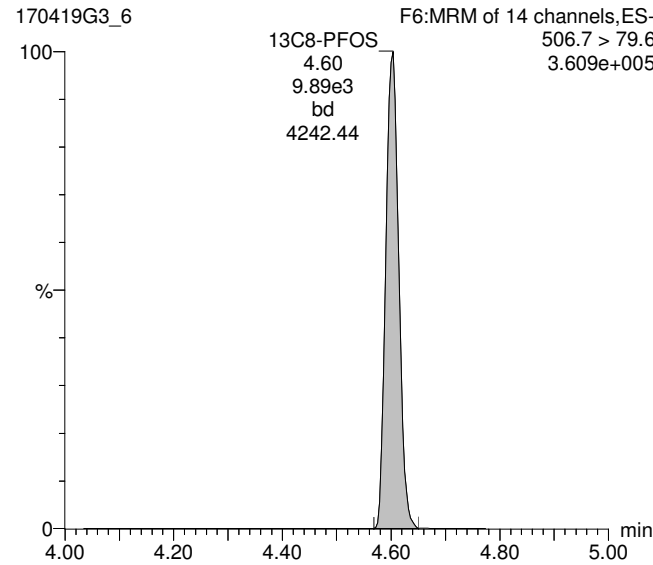
PFNA



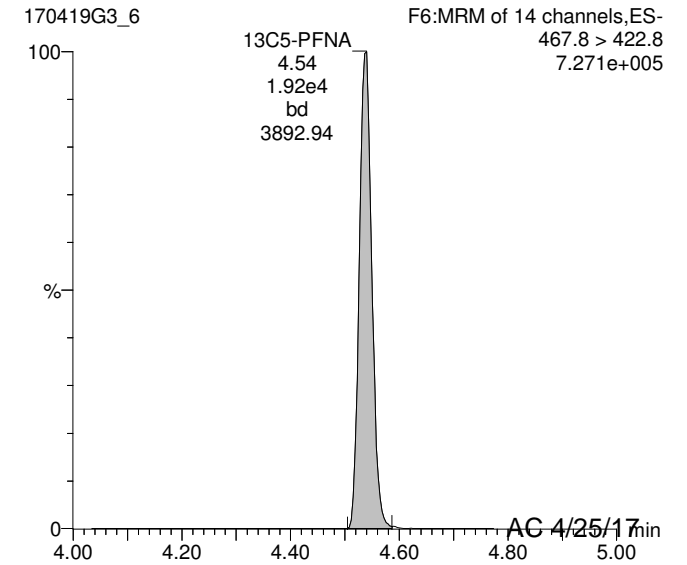
13C2-PFOA



13C8-PFOS



13C5-PFNA



Reviewed: CT 04/26/17

Work Order 1700458

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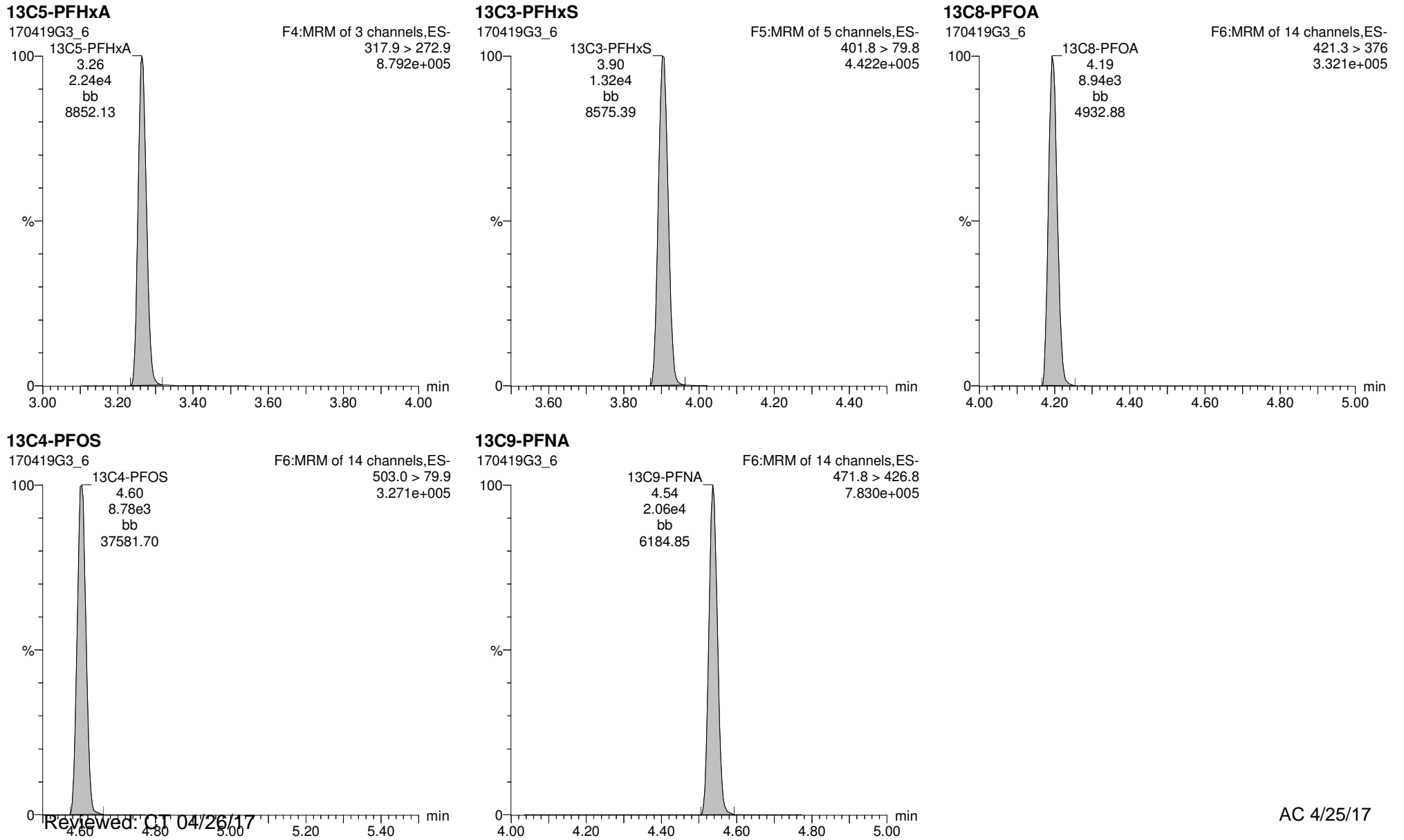
Page 34 of 236

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-6.qld

Last Altered: Tuesday, April 25, 2017 12:40:46 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 12:41:08 Pacific Daylight Time

ID: B7D0088-BS1 OPR 0.125, Description: OPR, Name: 170419G3_6, Date: 19-Apr-2017, Time: 16:25:02, Instrument: , Lab: , User:



Reviewed: 01/04/26/17

Work Order 1700458

AC 4/25/17

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-18.qld

Last Altered: Tuesday, April 25, 2017 14:00:09 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:00:47 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-01 OF-MW34D-0417 0.125, Description: OF-MW34D-0417, Name: 170419G3_18, Date: 19-Apr-2017, Time: 18:56:35

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	3.962e1	1.829e4		0.125	2.89	0.320	
2	5 PFHpA	363 > 318.9		1.098e4		0.125			
3	6 PFHxS	398.8 > 79.8	9.152e1	6.079e3		0.125	3.91	0.154	
4	8 PFOA	412.8 > 369	2.318e2	2.644e4		0.125	4.20	0.0103	
5	10 PFOS	498.7 > 79.8	4.784e1	1.129e4		0.125	4.61	0.803	
6	11 PFNA	462.8 > 418.8	1.950e1	2.133e4		0.125	4.55	0.0819	
7	14 13C3-PFBA	215.9 > 171.8	1.893e4	1.757e4	1.168	0.125	1.66	92.2	92.2
8	15 13C3-PFPeA	266 > 221.8	7.284e3	2.316e4	0.379	0.125	2.63	82.9	82.9
9	16 13C3-PFBS	301.8 > 79.7	1.829e4	2.316e4	0.728	0.125	2.89	109	109
10	17 13C2-PFHxA	315 > 269.8	7.451e3	2.316e4	0.860	0.125	3.26	37.4	93.5
11	18 13C4-PFHpA	367.2 > 321.8	1.098e4	1.463e4	0.961	0.125	3.78	78.1	78.1
12	19 18O2-PFHxS	403 > 102.6	6.079e3	1.463e4	0.442	0.125	3.91	94.1	94.1
13	20 13C2-6:2 FTS	428.8 > 408.8	9.328e3	9.710e3	1.162	0.125	4.15	82.7	82.7
14	21 13C2-PFOA	414.9 > 369.7	2.644e4	9.710e3	3.233	0.125	4.20	84.2	84.2
15	22 13C8-PFOS	506.7 > 79.6	1.129e4	1.025e4	1.277	0.125	4.61	86.2	86.2
16	23 13C5-PFNA	467.8 > 422.8	2.133e4	2.233e4	1.010	0.125	4.54	94.6	94.6
17	24 13C2-PFDA	514.8 > 469.7	2.055e4	9.712e3	2.247	0.125	4.84	94.2	94.2
18	25 13C2-8:2 FTS	529.1 > 508.7	4.036e3	9.712e3	0.335	0.125	4.82	124	124
19	26 13C4-PFBA	216.9 > 171.8	1.757e4	1.757e4	1.000	0.125	1.66	100	100
20	27 13C5-PFHxA	317.9 > 272.9	2.316e4	2.316e4	1.000	0.125	3.26	100	100
21	28 13C3-PFHxS	401.8 > 79.8	1.463e4	1.463e4	1.000	0.125	3.91	100	100
22	29 13C8-PFOA	421.3 > 376	9.710e3	9.710e3	1.000	0.125	4.20	100	100
23	30 13C4-PFOS	503.0 > 79.9	1.025e4	1.025e4	1.000	0.125	4.61	100	100
24	31 13C9-PFNA	471.8 > 426.8	2.233e4	2.233e4	1.000	0.125	4.54	100	100
25	32 13C6-PFDA	519.1 > 473.7	9.712e3	9.712e3	1.000	0.125	4.84	100	100
26	33 Total PFBS	298.8 > 79.7		6.079e3		0.125		0.320	
27	34 Total PFHxS	398.8 > 79.8		6.079e3		0.125		0.154	
28	35 Total PFOA	412.8 > 369		2.644e4		0.125		0.0103	
29	36 Total PFOS	498.7 > 79.8		1.129e4		0.125		0.803	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-18.qld

Last Altered: Tuesday, April 25, 2017 14:00:09 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:00:47 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-01 OF-MW34D-0417 0.125, Description: OF-MW34D-0417, Name: 170419G3_18, Date: 19-Apr-2017, Time: 18:56:35

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.89	39.618	18291.568	0.3

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.91	91.520	6079.418	0.2

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	231.813	26435.965	0.0
2	35 Total PFOA	412.8 > 369	4.13	26.791	26435.965	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.61	47.840	11289.610	0.8

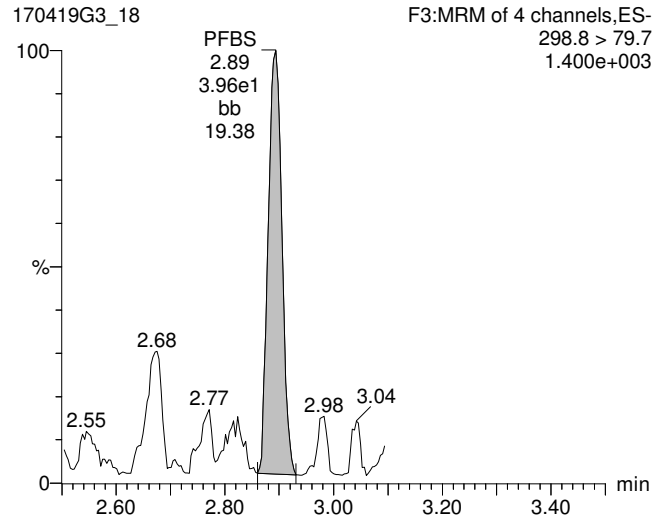
Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-18.qld

Last Altered: Tuesday, April 25, 2017 14:00:09 Pacific Daylight Time
Printed: Tuesday, April 25, 2017 14:00:47 Pacific Daylight Time

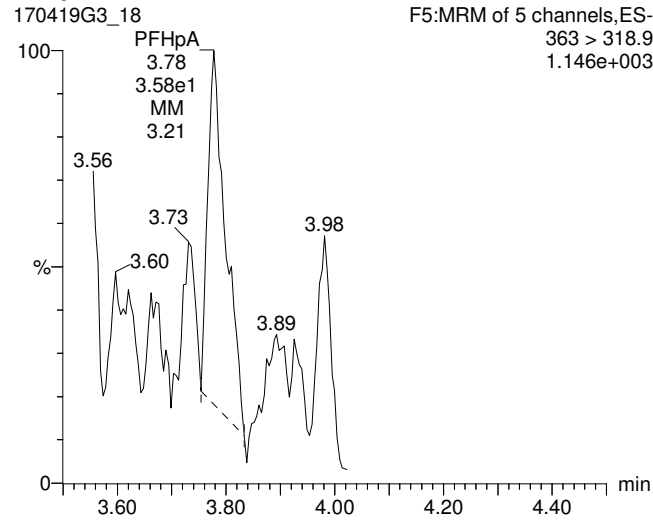
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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-01 OF-MW34D-0417 0.125, Description: OF-MW34D-0417, Name: 170419G3_18, Date: 19-Apr-2017, Time: 18:56:35, Instrument: , Lab: , User:

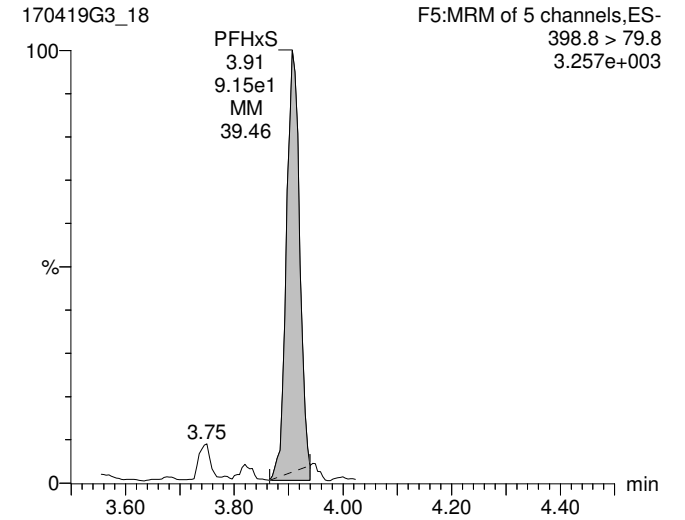
Total PFBS



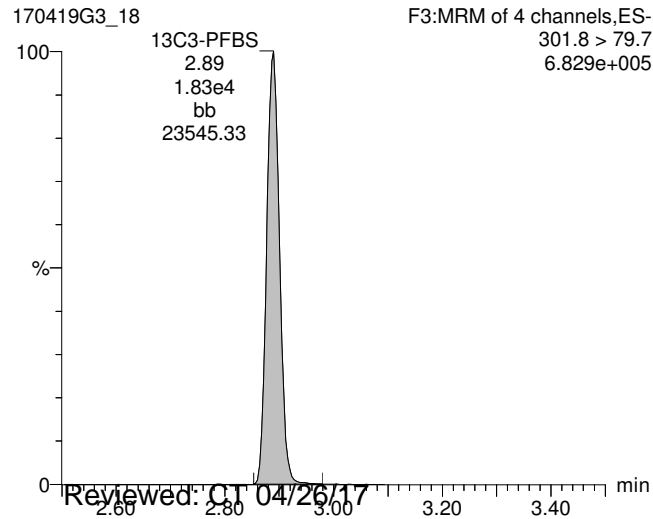
PFHpA



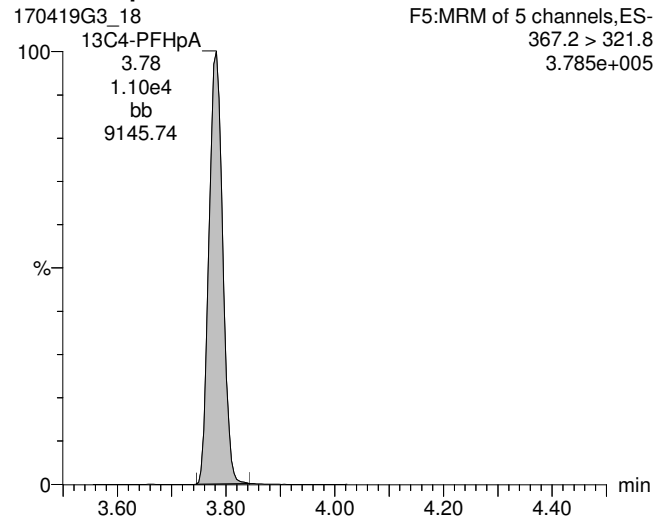
Total PFHxS



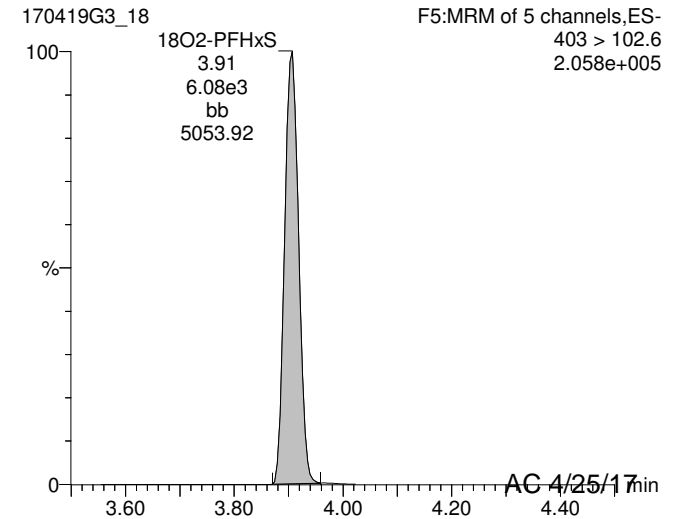
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-18.qld

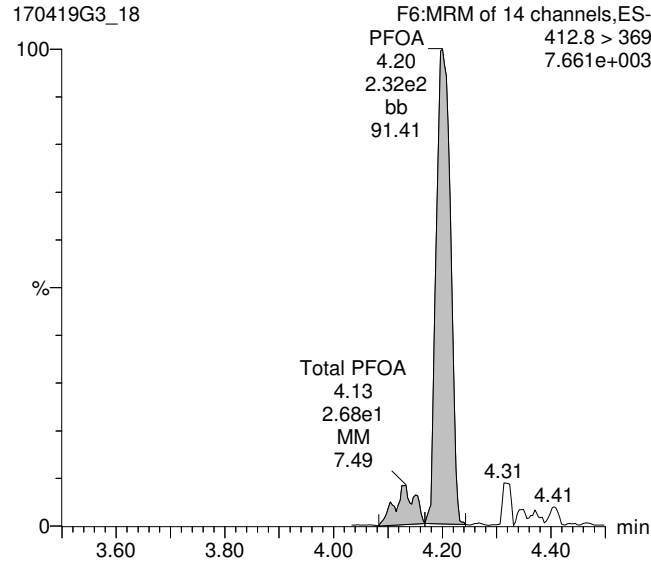
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Printed: Tuesday, April 25, 2017 14:00:47 Pacific Daylight Time

ID: 1700458-01 OF-MW34D-0417 0.125, Description: OF-MW34D-0417, Name: 170419G3_18, Date: 19-Apr-2017, Time: 18:56:35, Instrument: , Lab: , User:

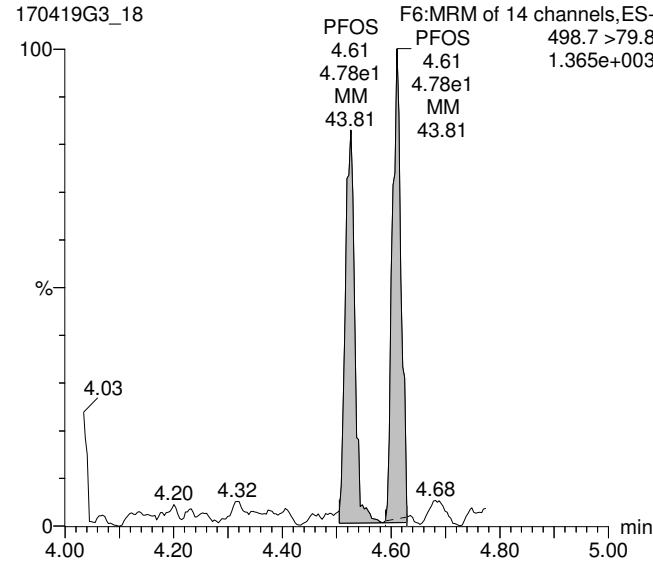
Total PFOA

170419G3_18



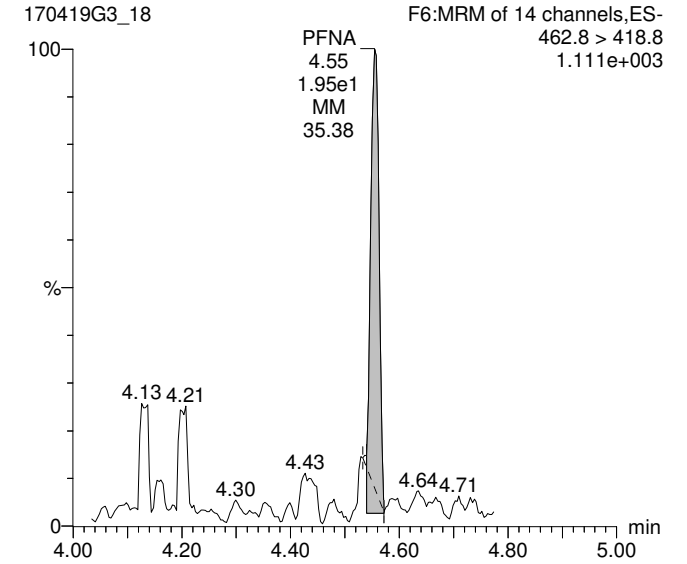
Total PFOS

170419G3_18



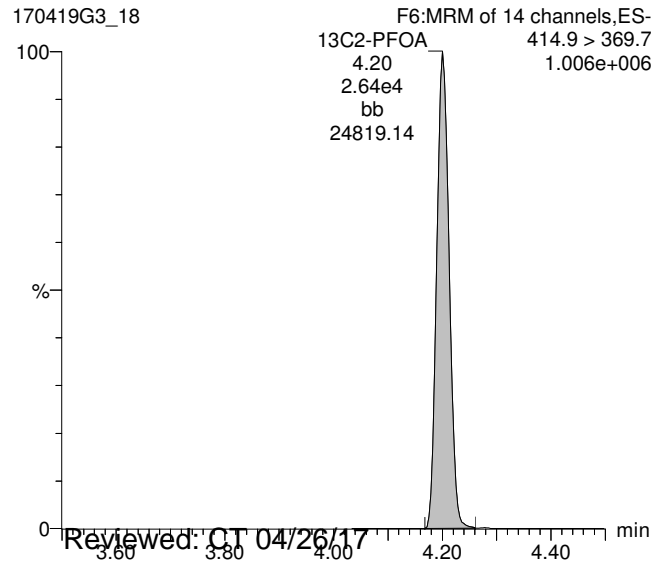
PFNA

170419G3_18



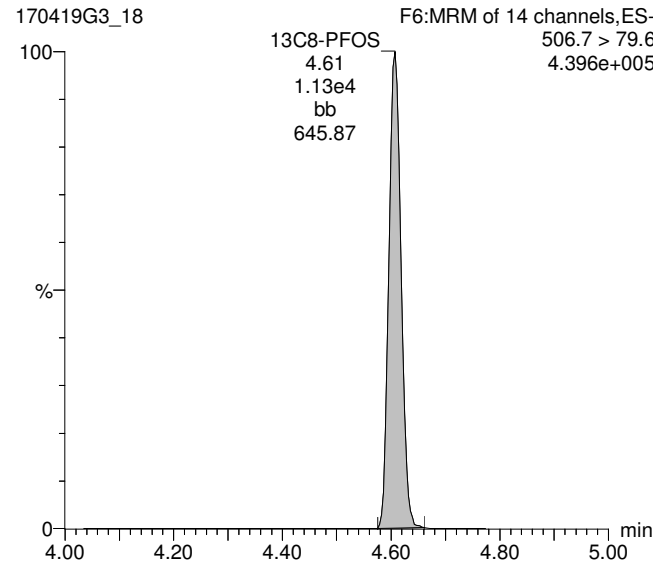
13C2-PFOA

170419G3_18



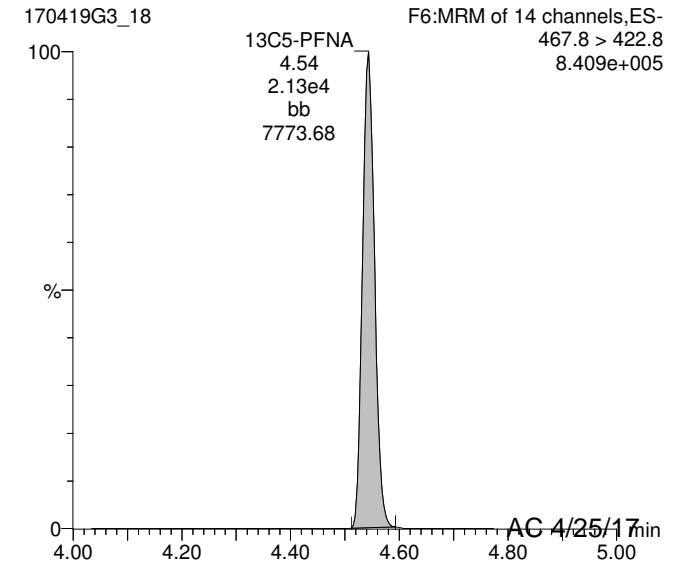
13C8-PFOS

170419G3_18



13C5-PFNA

170419G3_18

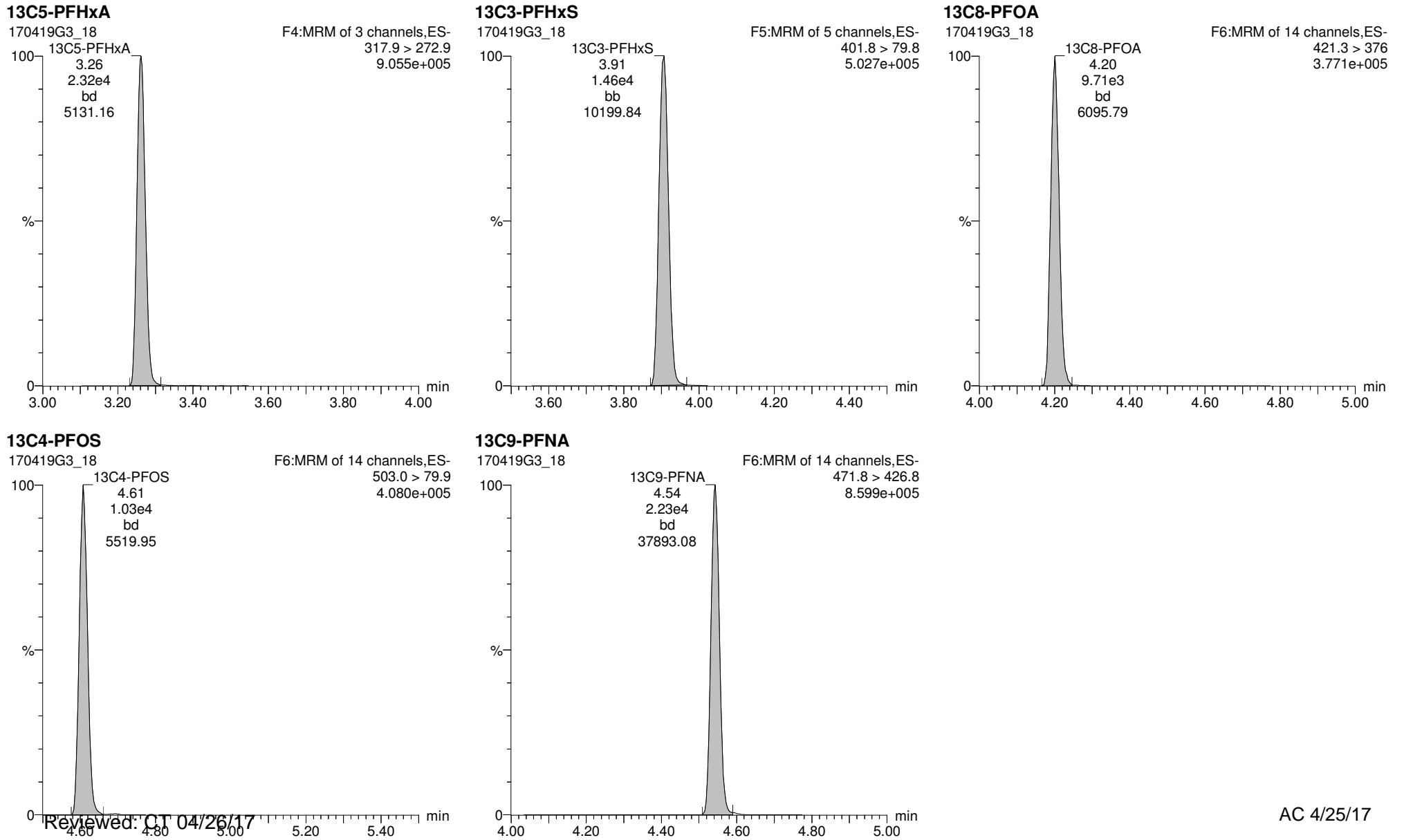


Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-18.qld

Last Altered: Tuesday, April 25, 2017 14:00:09 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:00:47 Pacific Daylight Time

ID: 1700458-01 OF-MW34D-0417 0.125, Description: OF-MW34D-0417, Name: 170419G3_18, Date: 19-Apr-2017, Time: 18:56:35, Instrument: , Lab: , User:



Reviewed: 01/04/26/17

Work Order 1700458

AC 4/25/17

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-19.qld

Last Altered: Tuesday, April 25, 2017 14:02:59 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:03:18 Pacific Daylight Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170419G3_19, Date: 19-Apr-2017, Time: 19:09:13

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	1.252e4	1.718e4		0.119	2.89	85.7	
2	5 PFHpA	363 > 318.9	1.701e4	1.026e4		0.119	3.78	91.6	
3	6 PFHxS	398.8 > 79.8	1.157e4	5.453e3		0.119	3.90	92.7	
4	8 PFOA	412.8 > 369	1.815e4	2.271e4		0.119	4.20	89.9	
5	10 PFOS	498.7 > 79.8	9.032e3	9.802e3		0.119	4.61	84.7	
6	11 PFNA	462.8 > 418.8	1.478e4	1.854e4		0.119	4.54	95.8	
7	14 13C3-PFBA	215.9 > 171.8	1.858e4	1.764e4	1.168	0.119	1.66	94.4	90.1
8	15 13C3-PFPeA	266 > 221.8	7.010e3	2.281e4	0.379	0.119	2.63	84.8	81.0
9	16 13C3-PFBS	301.8 > 79.7	1.718e4	2.281e4	0.728	0.119	2.89	108	104
10	17 13C2-PFHxA	315 > 269.8	7.488e3	2.281e4	0.860	0.119	3.26	40.0	95.4
11	18 13C4-PFHpA	367.2 > 321.8	1.026e4	1.329e4	0.961	0.119	3.78	84.1	80.3
12	19 18O2-PFHxS	403 > 102.6	5.453e3	1.329e4	0.442	0.119	3.90	97.3	92.9
13	20 13C2-6:2 FTS	428.8 > 408.8	1.067e4	8.636e3	1.162	0.119	4.15	111	106
14	21 13C2-PFOA	414.9 > 369.7	2.271e4	8.636e3	3.233	0.119	4.20	85.2	81.3
15	22 13C8-PFOS	506.7 > 79.6	9.802e3	8.652e3	1.277	0.119	4.61	92.9	88.7
16	23 13C5-PFNA	467.8 > 422.8	1.854e4	2.060e4	1.010	0.119	4.54	93.4	89.2
17	24 13C2-PFDA	514.8 > 469.7	1.781e4	8.543e3	2.247	0.119	4.84	97.2	92.8
18	25 13C2-8:2 FTS	529.1 > 508.7	2.881e3	8.543e3	0.335	0.119	4.82	105	101
19	26 13C4-PFBA	216.9 > 171.8	1.764e4	1.764e4	1.000	0.119	1.66	105	100
20	27 13C5-PFHxA	317.9 > 272.9	2.281e4	2.281e4	1.000	0.119	3.26	105	100
21	28 13C3-PFHxS	401.8 > 79.8	1.329e4	1.329e4	1.000	0.119	3.90	105	100
22	29 13C8-PFOA	421.3 > 376	8.636e3	8.636e3	1.000	0.119	4.20	105	100
23	30 13C4-PFOS	503.0 > 79.9	8.652e3	8.652e3	1.000	0.119	4.61	105	100
24	31 13C9-PFNA	471.8 > 426.8	2.060e4	2.060e4	1.000	0.119	4.54	105	100
25	32 13C6-PFDA	519.1 > 473.7	8.543e3	8.543e3	1.000	0.119	4.84	105	100
26	33 Total PFBS	298.8 > 79.7		5.453e3		0.119		85.7	
27	34 Total PFHxS	398.8 > 79.8		5.453e3		0.119		92.7	
28	35 Total PFOA	412.8 > 369		2.271e4		0.119		89.9	
29	36 Total PFOS	498.7 > 79.8		9.802e3		0.119		84.7	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-19.qld

Last Altered: Tuesday, April 25, 2017 14:02:59 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:03:18 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170419G3_19, Date: 19-Apr-2017, Time: 19:09:13

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.89	12518.029	17180.434	85.7

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.90	11569.058	5453.026	92.7

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	18145.529	22707.939	89.9

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.61	9031.817	9801.813	84.7

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-19.qld

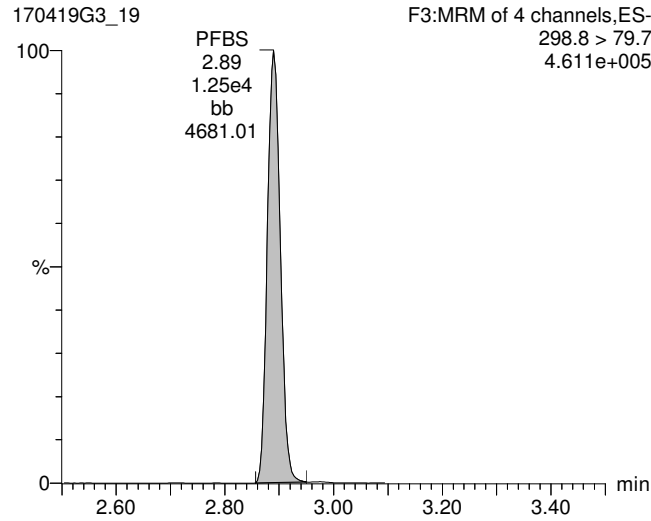
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Printed: Tuesday, April 25, 2017 14:03:18 Pacific Daylight Time

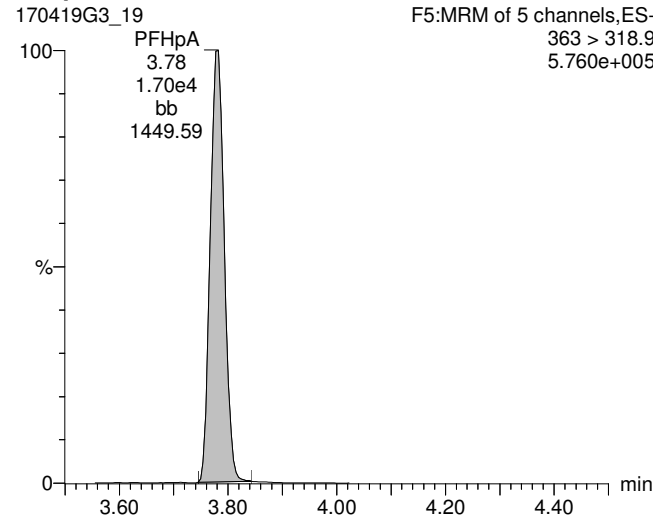
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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170419G3_19, Date: 19-Apr-2017, Time: 19:09:13, Instrument: , Lab: , User:

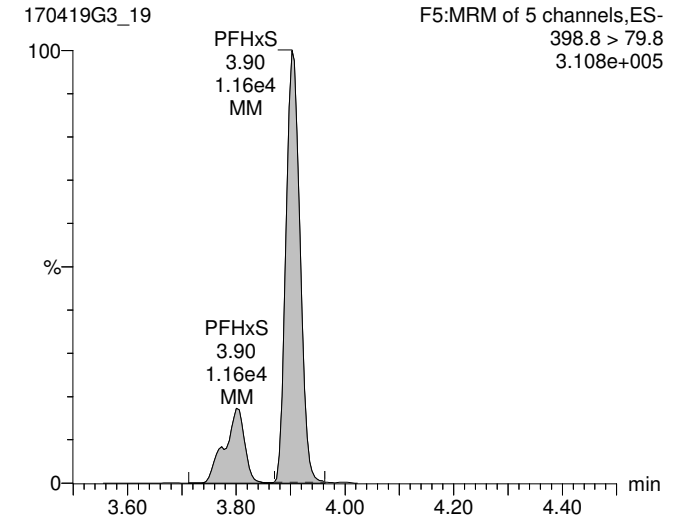
Total PFBS



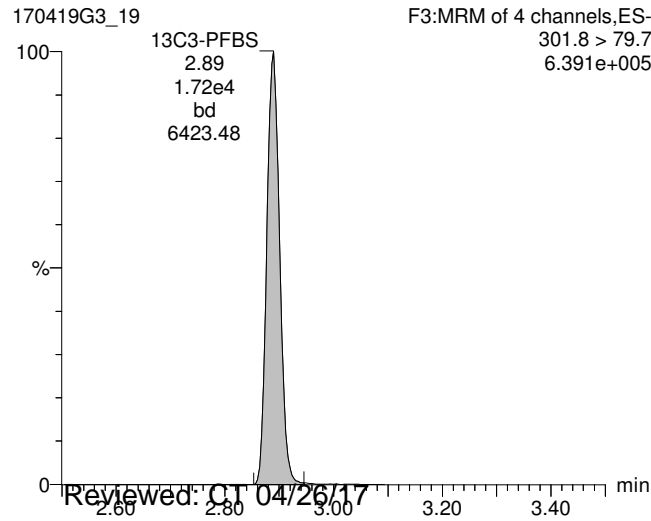
PFHpA



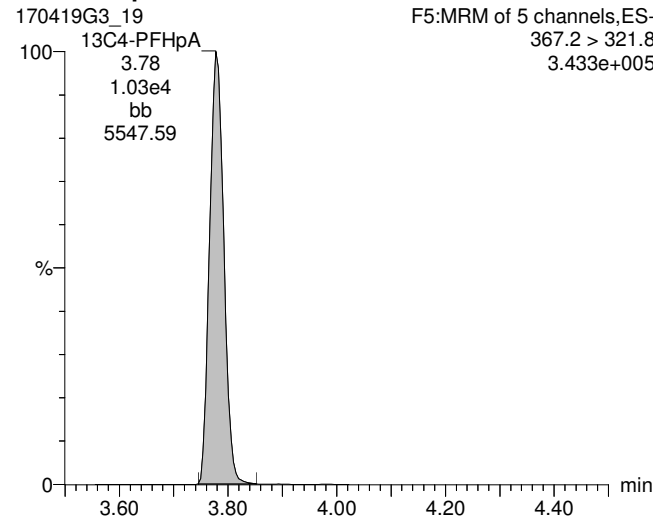
Total PFHxS



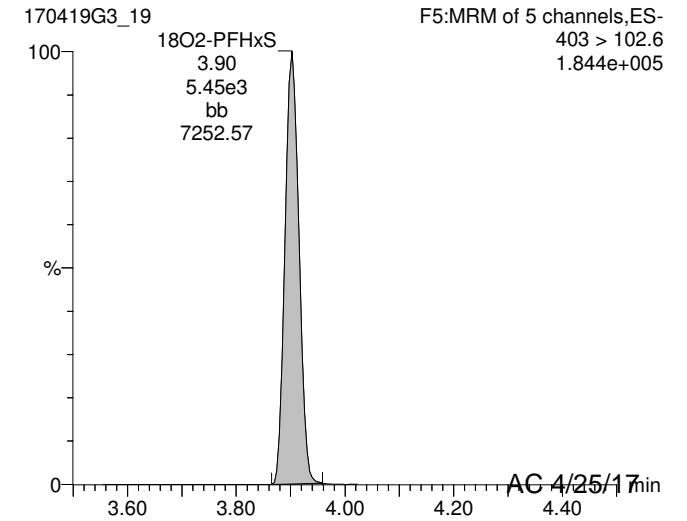
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-19.qld

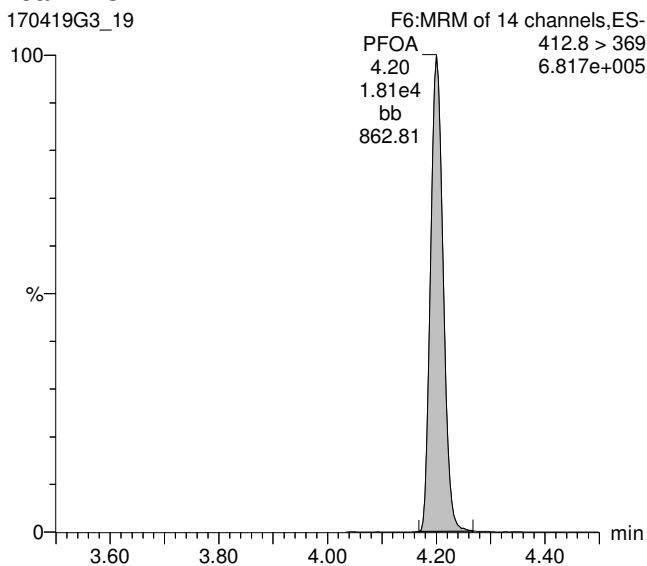
Last Altered: Tuesday, April 25, 2017 14:02:59 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:03:18 Pacific Daylight Time

ID: B7D0088-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170419G3_19, Date: 19-Apr-2017, Time: 19:09:13, Instrument: , Lab: , User:

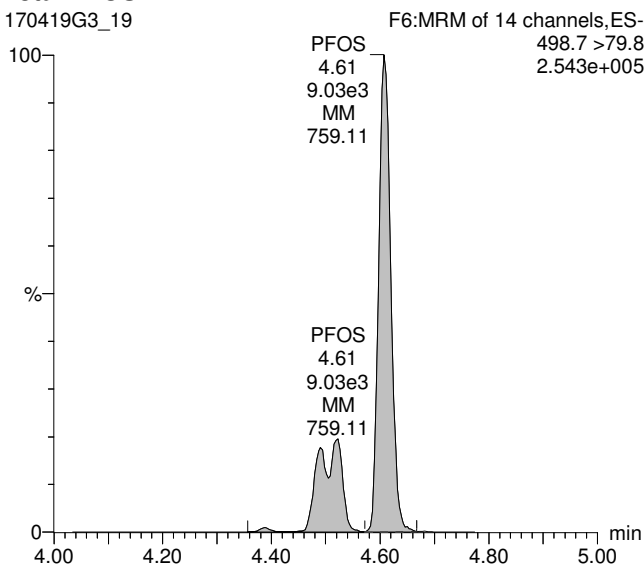
Total PFOA

170419G3_19



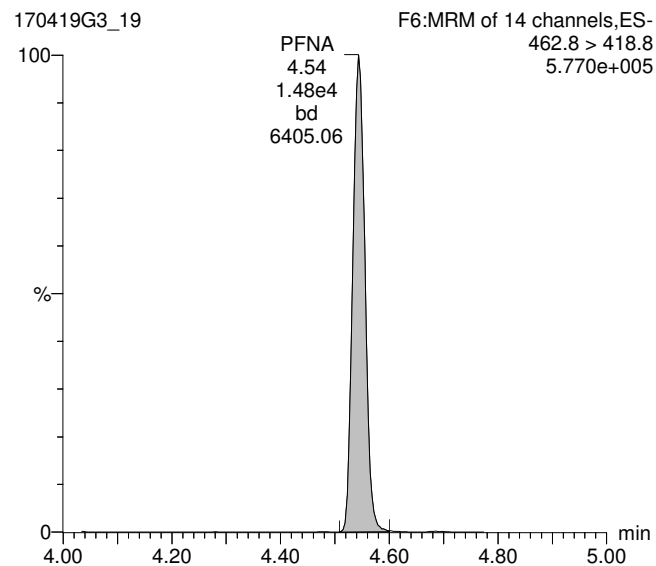
Total PFOS

170419G3_19



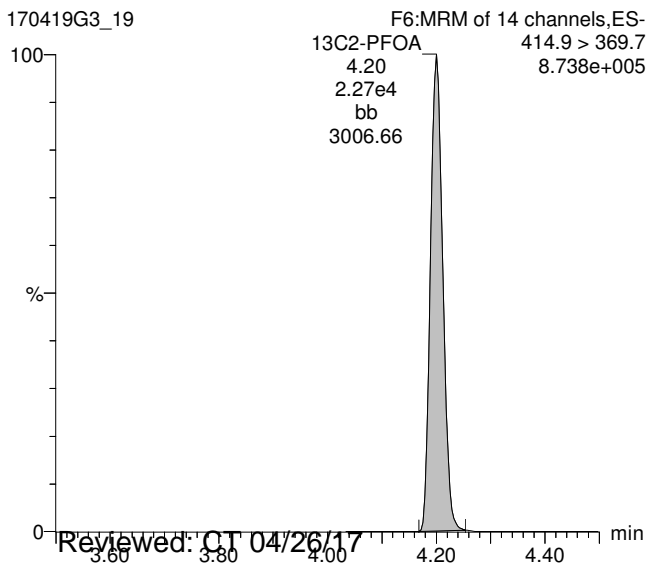
PFNA

170419G3_19



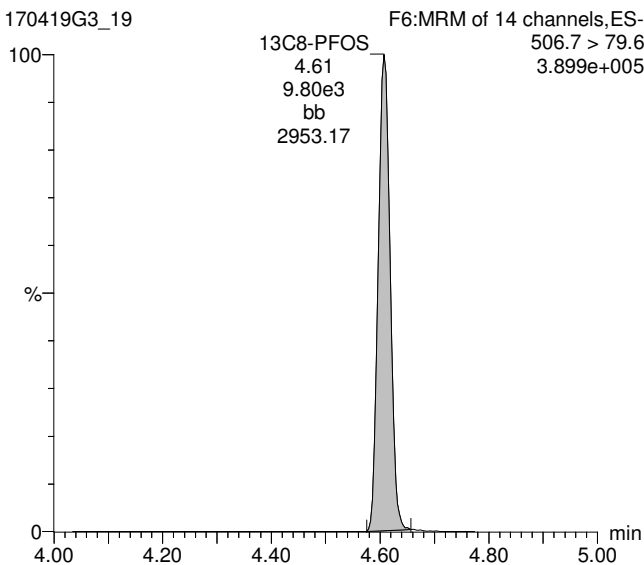
13C2-PFOA

170419G3_19



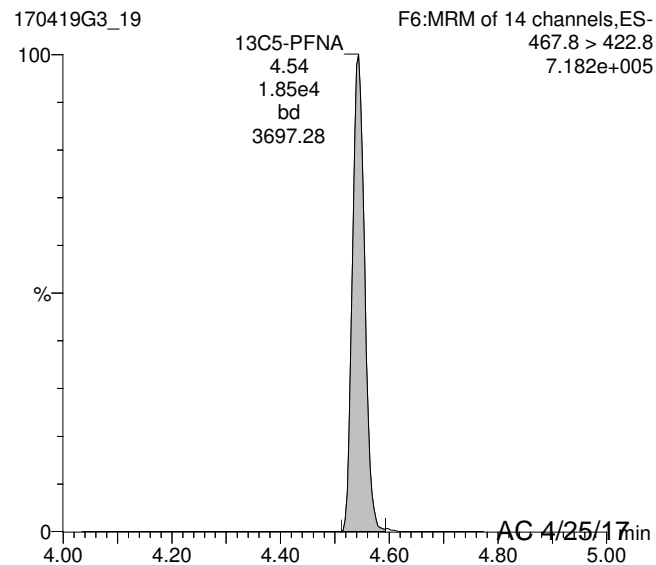
13C8-PFOS

170419G3_19



13C5-PFNA

170419G3_19



Reviewed: 01/04/26/17

Work Order 1700458

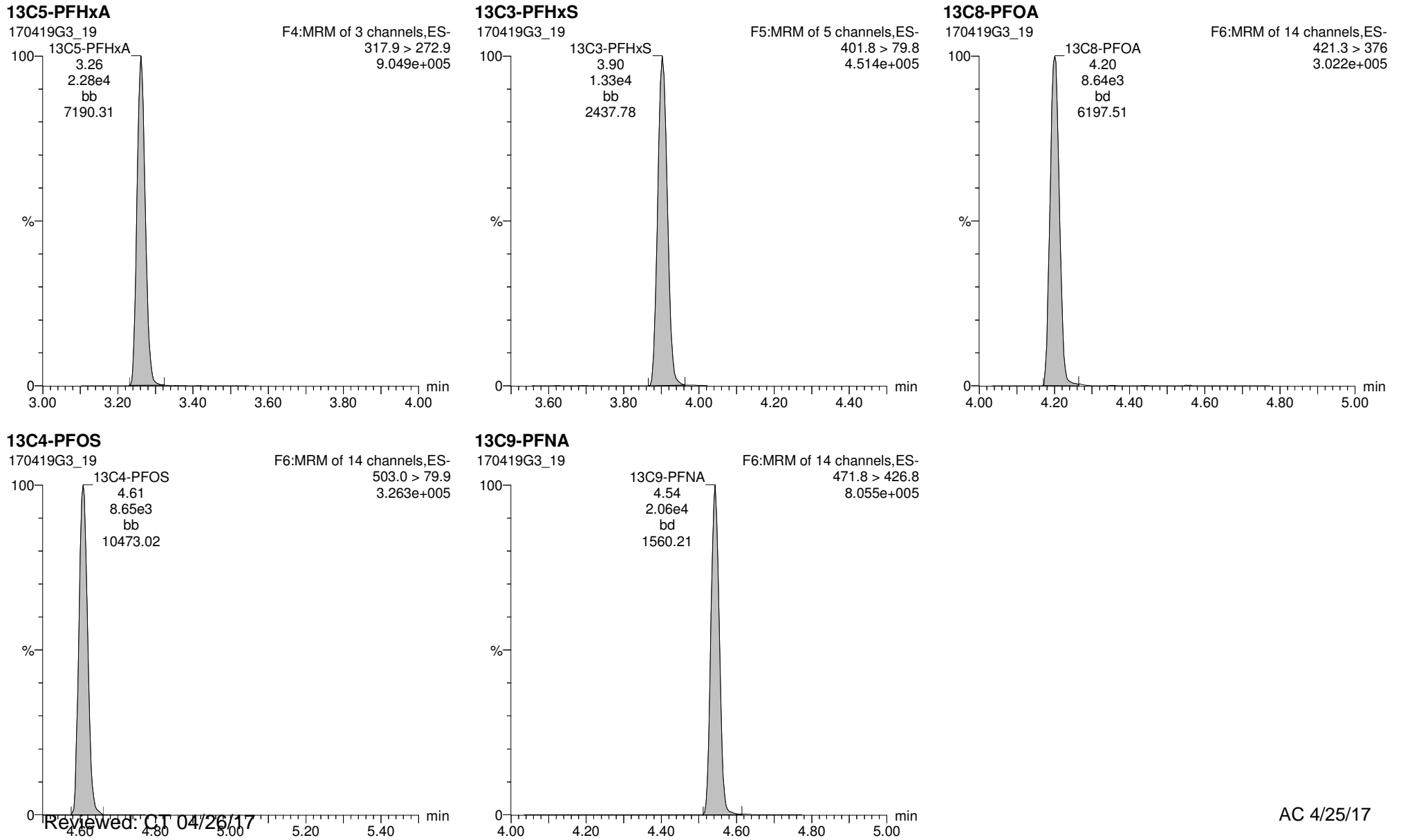
AC 4/25/17

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-19.qld

Last Altered: Tuesday, April 25, 2017 14:02:59 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:03:18 Pacific Daylight Time

ID: B7D0088-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170419G3_19, Date: 19-Apr-2017, Time: 19:09:13, Instrument: , Lab: , User:



Reviewed: 01/04/26/17

Work Order 1700458

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Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-20.qld

Last Altered: Tuesday, April 25, 2017 14:06:36 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:06:56 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170419G3_20, Date: 19-Apr-2017, Time: 19:21:52

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	1.324e4	1.792e4		0.120	2.89	86.4	
2	5 PFHpA	363 > 318.9	1.777e4	1.136e4		0.120	3.78	85.9	
3	6 PFHxS	398.8 > 79.8	1.233e4	5.890e3		0.120	3.90	91.0	
4	8 PFOA	412.8 > 369	1.847e4	2.639e4		0.120	4.20	78.2	
5	10 PFOS	498.7 >79.8	1.018e4	1.145e4		0.120	4.61	81.3	
6	11 PFNA	462.8 > 418.8	1.676e4	2.087e4		0.120	4.54	96.0	
7	14 13C3-PFBA	215.9 > 171.8	1.904e4	1.746e4	1.168	0.120	1.64	97.2	93.3
8	15 13C3-PFPeA	266>221.8	7.209e3	2.238e4	0.379	0.120	2.63	88.4	84.9
9	16 13C3-PFBS	301.8 > 79.7	1.792e4	2.238e4	0.728	0.120	2.89	115	110
10	17 13C2-PFHxA	315 > 269.8	7.491e3	2.238e4	0.860	0.120	3.26	40.6	97.3
11	18 13C4-PFHpA	367.2 > 321.8	1.136e4	1.365e4	0.961	0.120	3.78	90.3	86.6
12	19 18O2-PFHxS	403 > 102.6	5.890e3	1.365e4	0.442	0.120	3.90	102	97.7
13	20 13C2-6:2 FTS	428.8 > 408.8	1.265e4	8.746e3	1.162	0.120	4.15	130	125
14	21 13C2-PFOA	414.9 > 369.7	2.639e4	8.746e3	3.233	0.120	4.20	97.2	93.3
15	22 13C8-PFOS	506.7 > 79.6	1.145e4	1.000e4	1.277	0.120	4.61	93.4	89.7
16	23 13C5-PFNA	467.8 > 422.8	2.087e4	2.090e4	1.010	0.120	4.54	103	98.9
17	24 13C2-PFDA	514.8 > 469.7	2.055e4	8.821e3	2.247	0.120	4.84	108	104
18	25 13C2-8:2 FTS	529.1 > 508.7	3.981e3	8.821e3	0.335	0.120	4.82	140	135
19	26 13C4-PFBA	216.9 > 171.8	1.746e4	1.746e4	1.000	0.120	1.64	104	100
20	27 13C5-PFHxA	317.9 > 272.9	2.238e4	2.238e4	1.000	0.120	3.26	104	100
21	28 13C3-PFHxS	401.8 > 79.8	1.365e4	1.365e4	1.000	0.120	3.90	104	100
22	29 13C8-PFOA	421.3 > 376	8.746e3	8.746e3	1.000	0.120	4.20	104	100
23	30 13C4-PFOS	503.0 > 79.9	1.000e4	1.000e4	1.000	0.120	4.61	104	100
24	31 13C9-PFNA	471.8 > 426.8	2.090e4	2.090e4	1.000	0.120	4.54	104	100
25	32 13C6-PFDA	519.1 > 473.7	8.821e3	8.821e3	1.000	0.120	4.84	104	100
26	33 Total PFBS	298.8 > 79.7		5.890e3		0.120		86.4	
27	34 Total PFHxS	398.8 > 79.8		5.890e3		0.120		91.0	
28	35 Total PFOA	412.8 > 369		2.639e4		0.120		78.2	
29	36 Total PFOS	498.7 >79.8		1.145e4		0.120		81.3	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-20.qld

Last Altered: Tuesday, April 25, 2017 14:06:36 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:06:56 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170419G3_20, Date: 19-Apr-2017, Time: 19:21:52

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.89	13235.197	17916.105	86.4

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.90	12332.840	5889.710	91.0

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	18474.850	26387.357	78.2

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.61	10184.572	11452.626	81.3

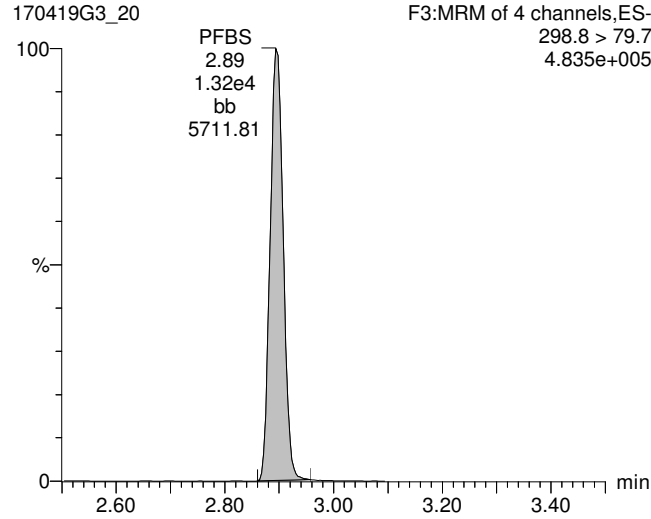
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Last Altered: Tuesday, April 25, 2017 14:06:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2017 14:06:56 Pacific Daylight Time

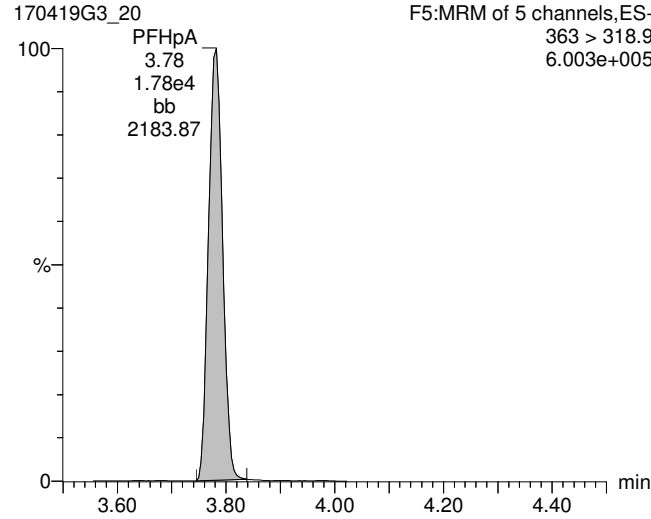
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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: B7D0088-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170419G3_20, Date: 19-Apr-2017, Time: 19:21:52, Instrument: , Lab: , User:

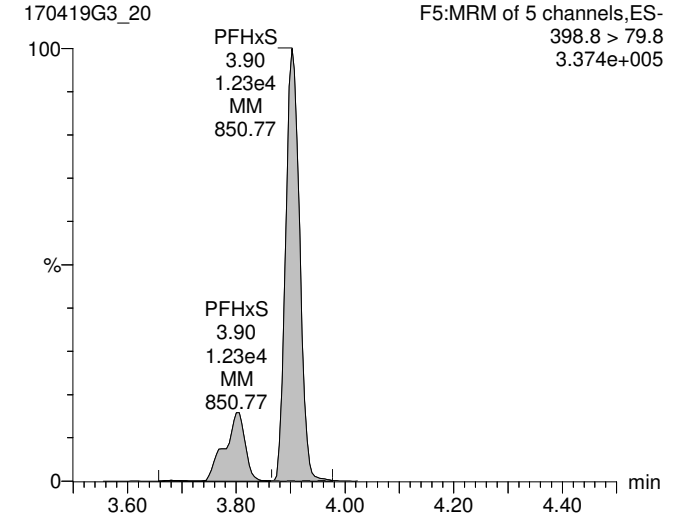
Total PFBS



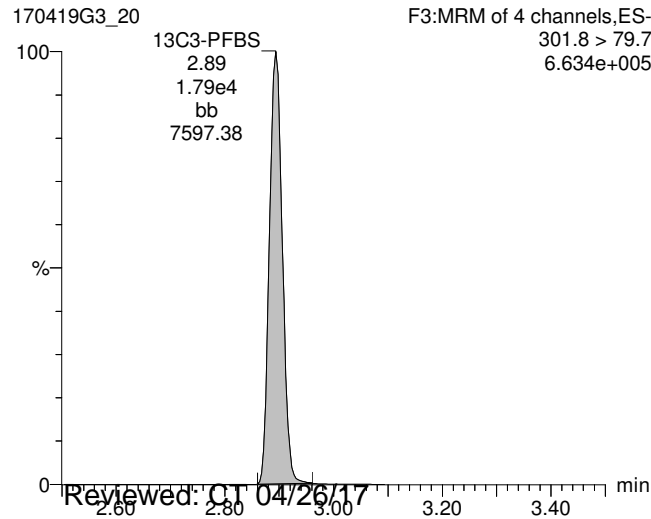
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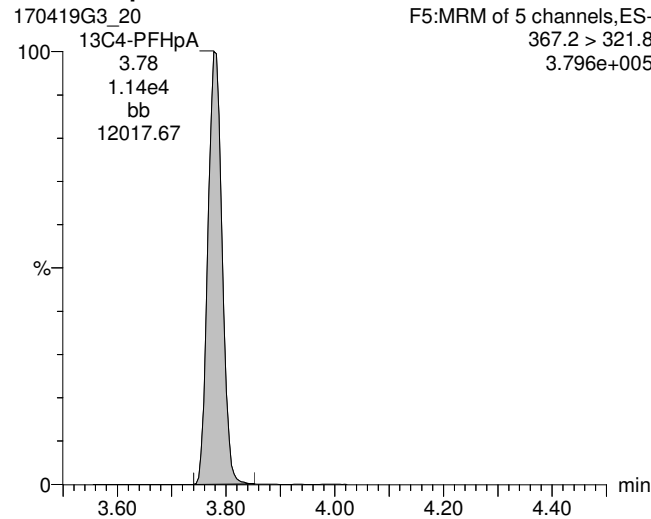
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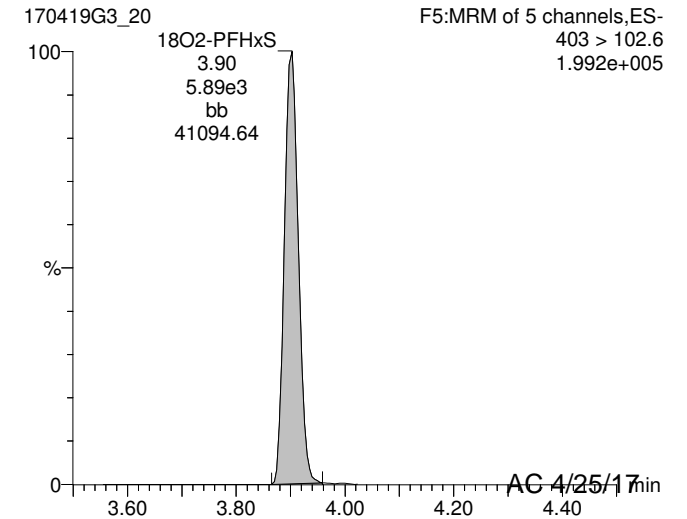
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-20.qld

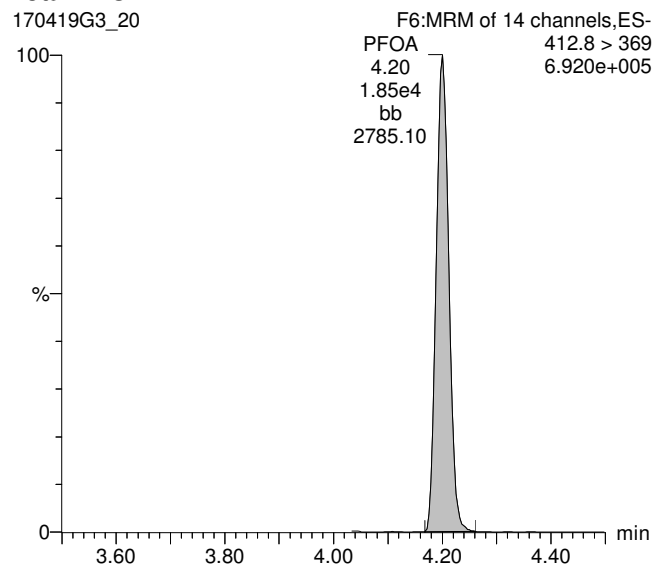
Last Altered: Tuesday, April 25, 2017 14:06:36 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:06:56 Pacific Daylight Time

ID: B7D0088-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170419G3_20, Date: 19-Apr-2017, Time: 19:21:52, Instrument: , Lab: , User:

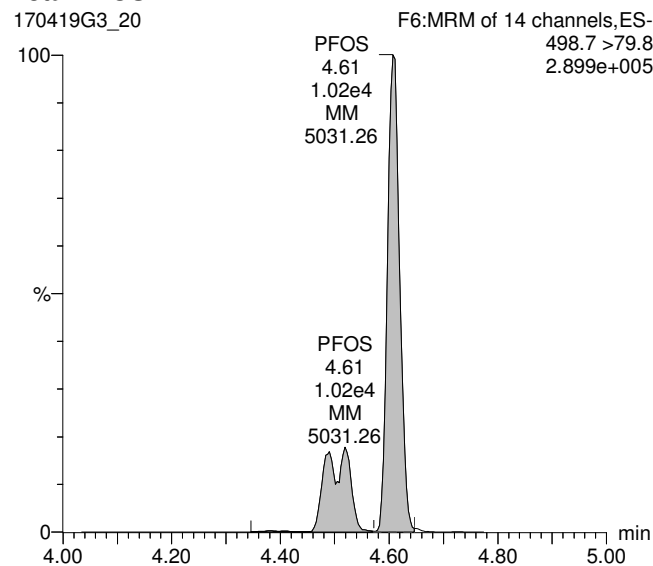
Total PFOA

170419G3_20



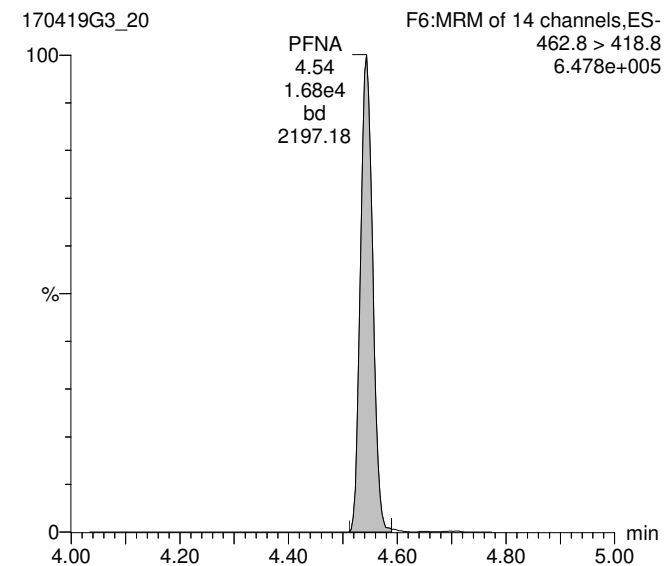
Total PFOS

170419G3_20



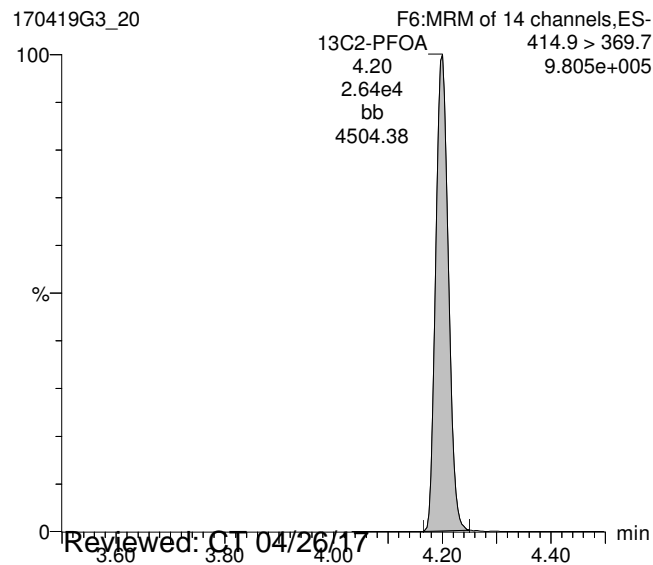
PFNA

170419G3_20



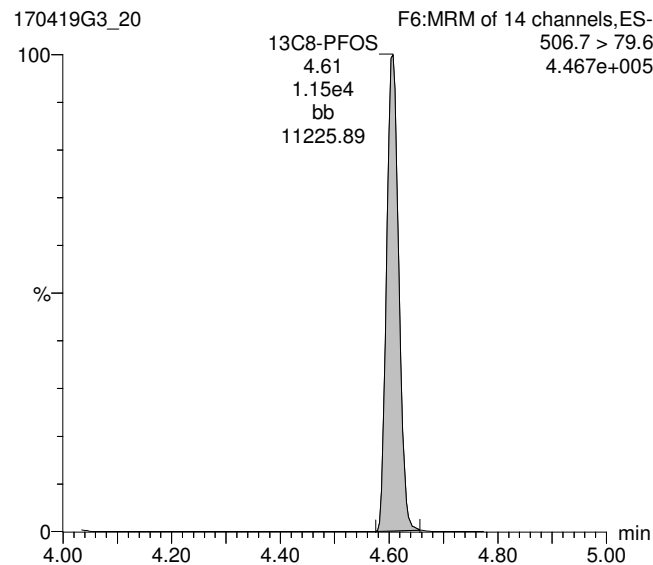
13C2-PFOA

170419G3_20



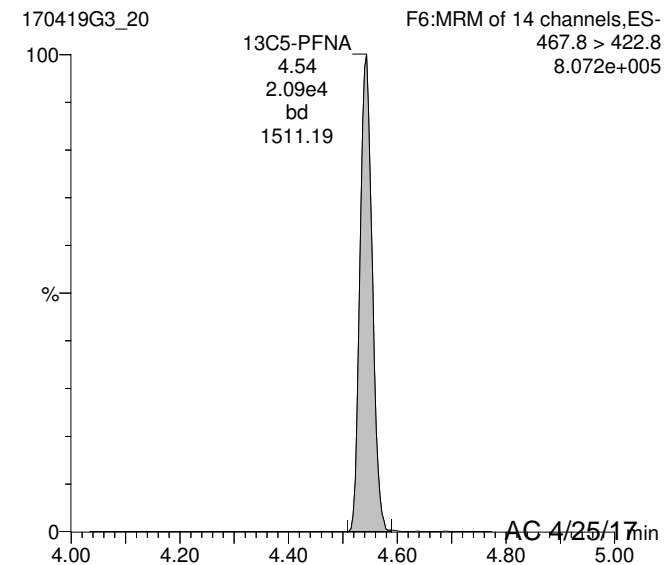
13C8-PFOS

170419G3_20



13C5-PFNA

170419G3_20



Reviewed: 01/04/26/17

Work Order 1700458

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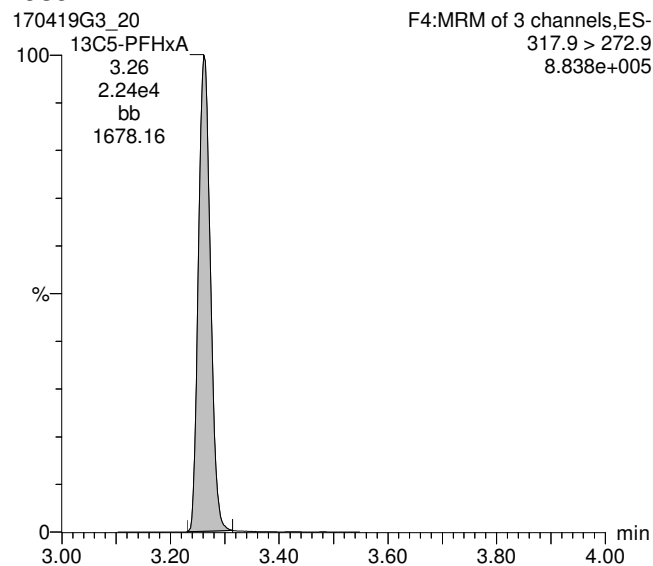
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Last Altered: Tuesday, April 25, 2017 14:06:36 Pacific Daylight Time

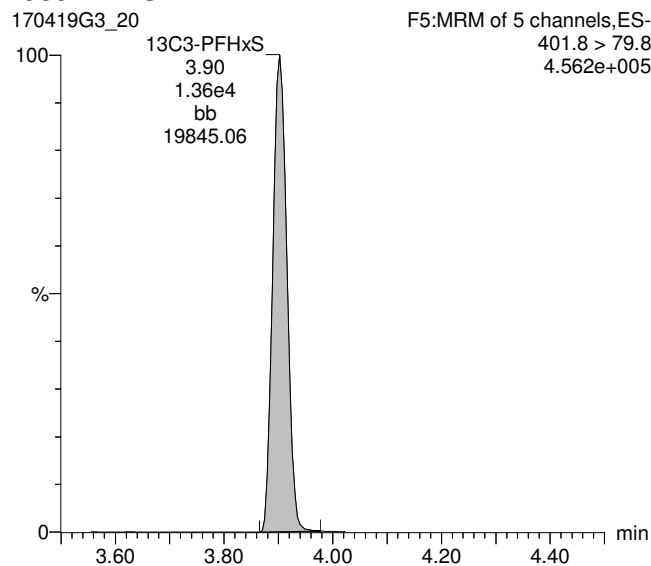
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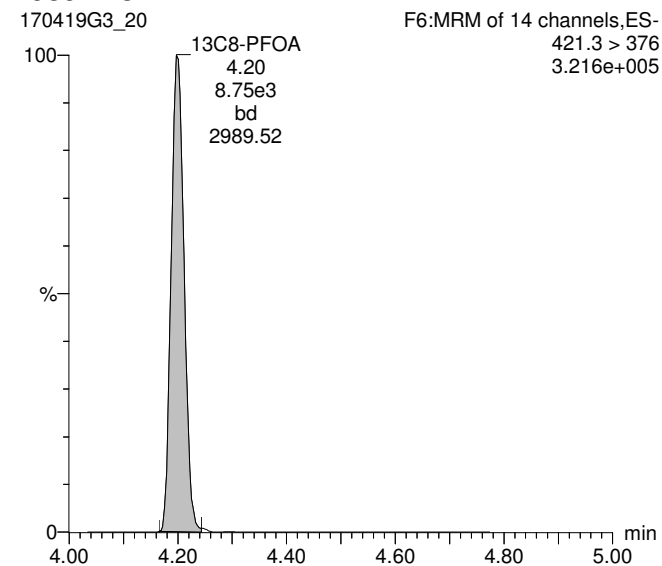
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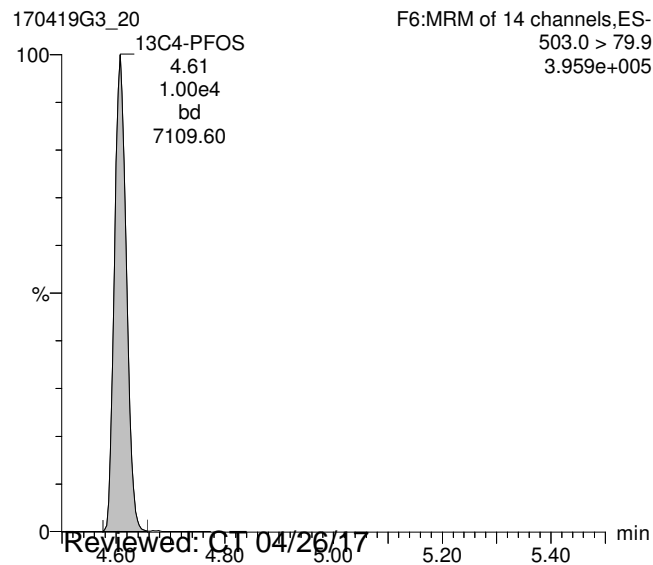
13C3-PFHxS



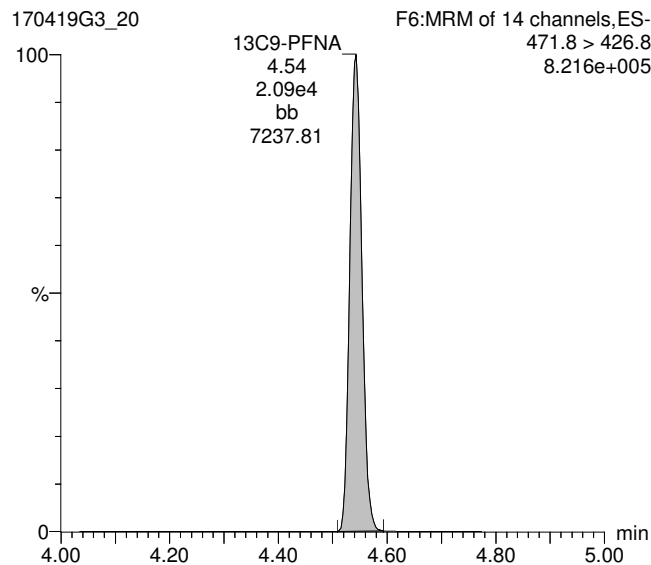
13C8-PFOA



13C4-PFOS



13C9-PFNA



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-21.qld

Last Altered: Tuesday, April 25, 2017 14:08:54 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:09:36 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-02 OF-MW32D-0417 0.125, Description: OF-MW32D-0417, Name: 170419G3_21, Date: 19-Apr-2017, Time: 19:34:26

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	2.485e1	1.736e4		0.123	2.89	0.242	
2	5 PFHpA	363 > 318.9	5.689e1	1.101e4		0.123	3.78	0.245	
3	6 PFHxS	398.8 > 79.8	8.731e1	5.530e3		0.123	3.90	0.188	
4	8 PFOA	412.8 > 369	2.251e2	2.493e4		0.123	4.20	0.0392	
5	10 PFOS	498.7 >79.8	1.707e2	9.892e3		0.123	4.61	1.97	
6	11 PFNA	462.8 > 418.8	1.579e1	1.840e4		0.123	4.55	0.0768	
7	14 13C3-PFBA	215.9 > 171.8	1.891e4	1.727e4	1.168	0.123	1.64	95.5	93.7
8	15 13C3-PFPeA	266>221.8	7.617e3	2.240e4	0.379	0.123	2.63	91.3	89.6
9	16 13C3-PFBS	301.8 > 79.7	1.736e4	2.240e4	0.728	0.123	2.89	109	107
10	17 13C2-PFHxA	315 > 269.8	7.603e3	2.240e4	0.860	0.123	3.26	40.2	98.7
11	18 13C4-PFHpA	367.2 > 321.8	1.101e4	1.311e4	0.961	0.123	3.78	89.1	87.4
12	19 18O2-PFHxS	403 > 102.6	5.530e3	1.311e4	0.442	0.123	3.90	97.3	95.5
13	20 13C2-6:2 FTS	428.8 > 408.8	9.036e3	8.669e3	1.162	0.123	4.15	91.4	89.7
14	21 13C2-PFOA	414.9 > 369.7	2.493e4	8.669e3	3.233	0.123	4.20	90.6	88.9
15	22 13C8-PFOS	506.7 > 79.6	9.892e3	8.370e3	1.277	0.123	4.61	94.3	92.5
16	23 13C5-PFNA	467.8 > 422.8	1.840e4	2.036e4	1.010	0.123	4.55	91.2	89.5
17	24 13C2-PFDA	514.8 > 469.7	1.817e4	8.371e3	2.247	0.123	4.85	98.4	96.6
18	25 13C2-8:2 FTS	529.1 > 508.7	3.273e3	8.371e3	0.335	0.123	4.82	119	117
19	26 13C4-PFBA	216.9 > 171.8	1.727e4	1.727e4	1.000	0.123	1.64	102	100
20	27 13C5-PFHxA	317.9 > 272.9	2.240e4	2.240e4	1.000	0.123	3.26	102	100
21	28 13C3-PFHxS	401.8 > 79.8	1.311e4	1.311e4	1.000	0.123	3.90	102	100
22	29 13C8-PFOA	421.3 > 376	8.669e3	8.669e3	1.000	0.123	4.20	102	100
23	30 13C4-PFOS	503.0 > 79.9	8.370e3	8.370e3	1.000	0.123	4.61	102	100
24	31 13C9-PFNA	471.8 > 426.8	2.036e4	2.036e4	1.000	0.123	4.54	102	100
25	32 13C6-PFDA	519.1 > 473.7	8.371e3	8.371e3	1.000	0.123	4.85	102	100
26	33 Total PFBS	298.8 > 79.7		5.530e3		0.123		0.242	
27	34 Total PFHxS	398.8 > 79.8		5.530e3		0.123		0.188	
28	35 Total PFOA	412.8 > 369		2.493e4		0.123		0.0392	
29	36 Total PFOS	498.7 >79.8		9.892e3		0.123		1.97	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-21.qld

Last Altered: Tuesday, April 25, 2017 14:08:54 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:09:36 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-02 OF-MW32D-0417 0.125, Description: OF-MW32D-0417, Name: 170419G3_21, Date: 19-Apr-2017, Time: 19:34:26

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.89	24.847	17363.299	0.2

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.90	87.314	5530.354	0.2

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	225.065	24928.928	0.0

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.61	170.660	9891.920	2.0

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-21.qld

Last Altered: Tuesday, April 25, 2017 14:08:54 Pacific Daylight Time

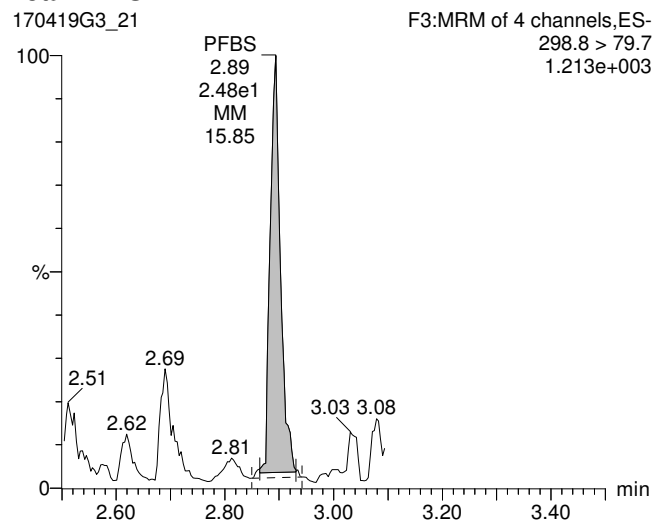
Printed: Tuesday, April 25, 2017 14:09:36 Pacific Daylight Time

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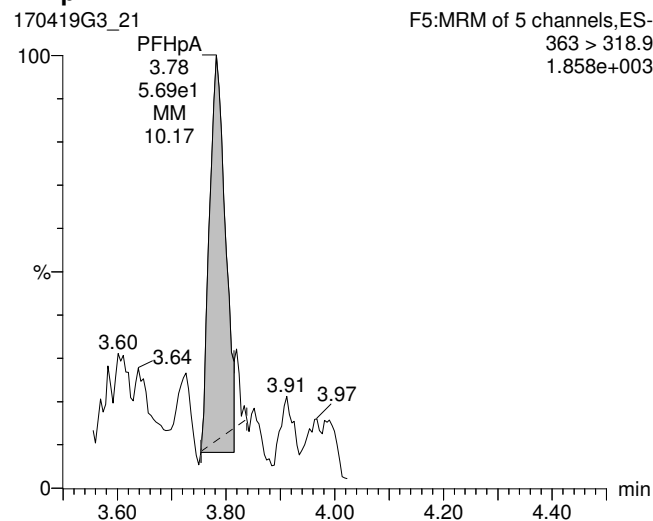
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ID: 1700458-02 OF-MW32D-0417 0.125, Description: OF-MW32D-0417, Name: 170419G3_21, Date: 19-Apr-2017, Time: 19:34:26, Instrument: , Lab: , User:

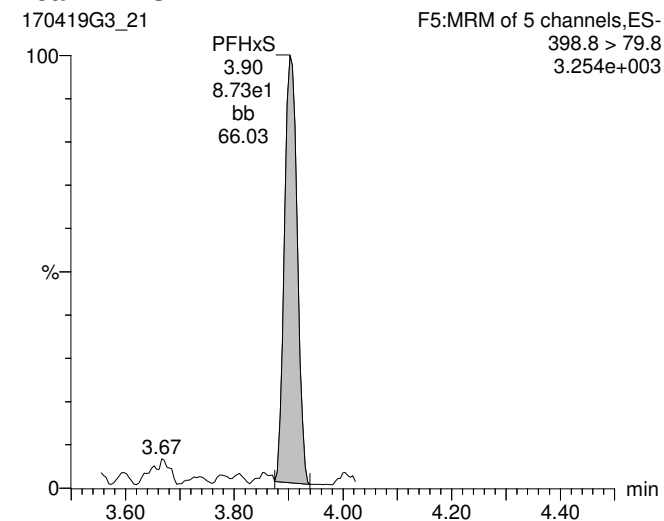
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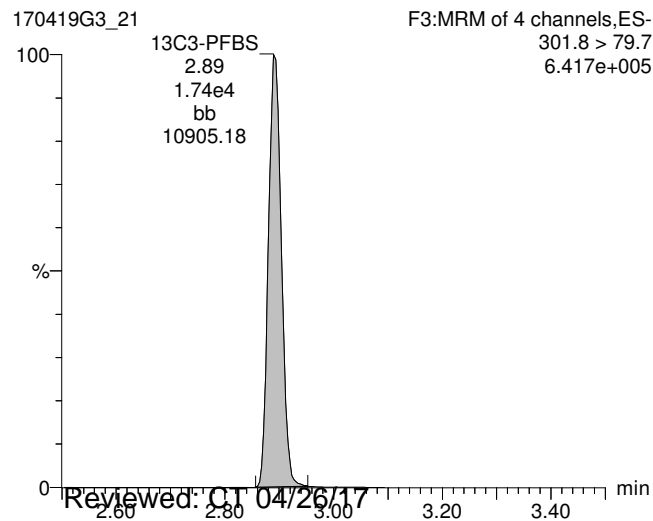
PFHpA



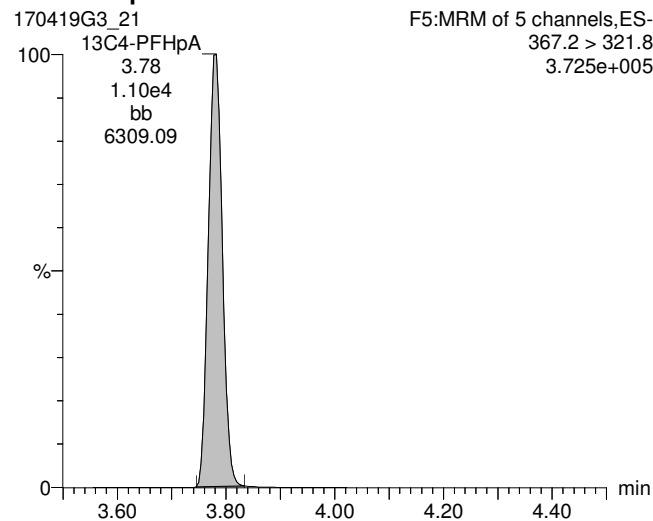
Total PFHxS



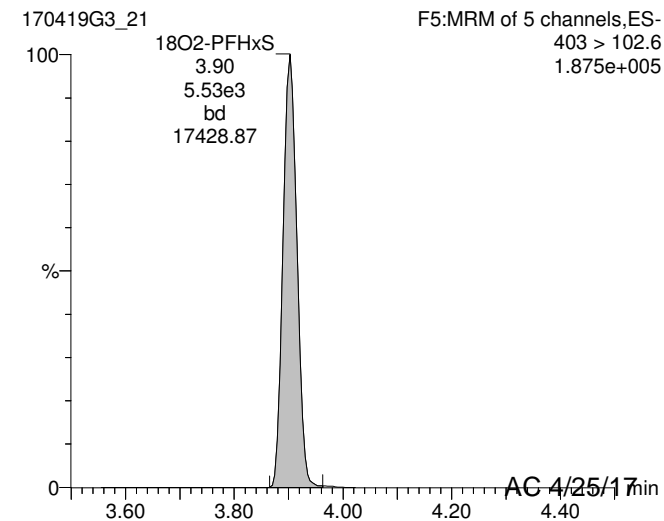
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



Reviewed: 01/04/25/17

Work Order 1700458

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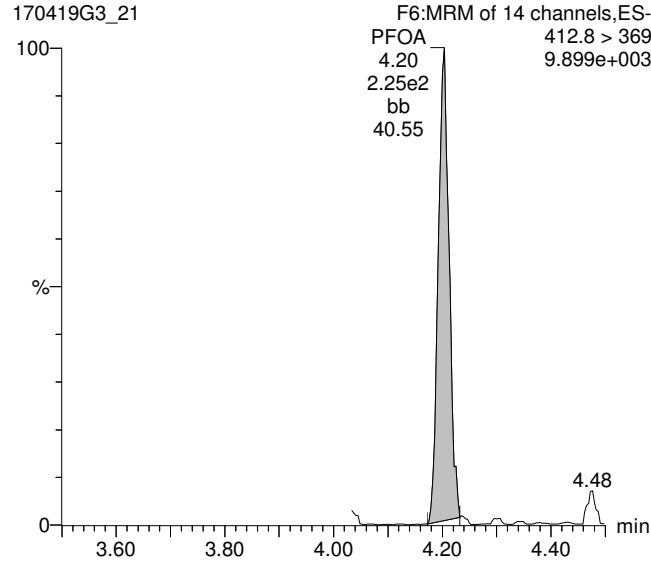
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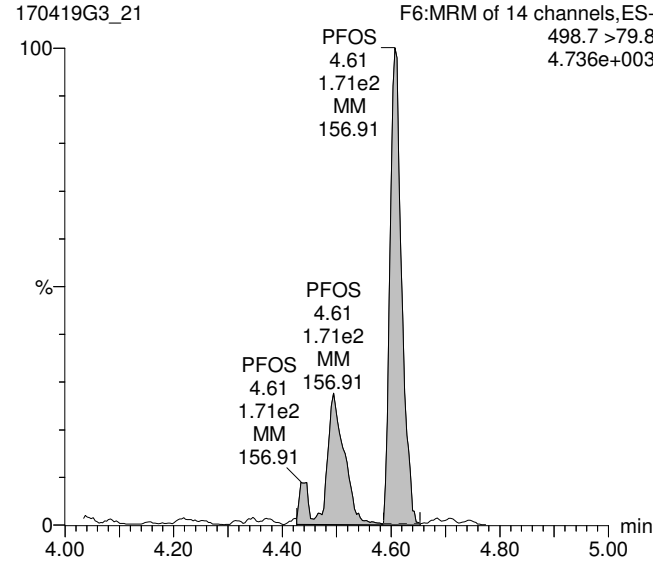
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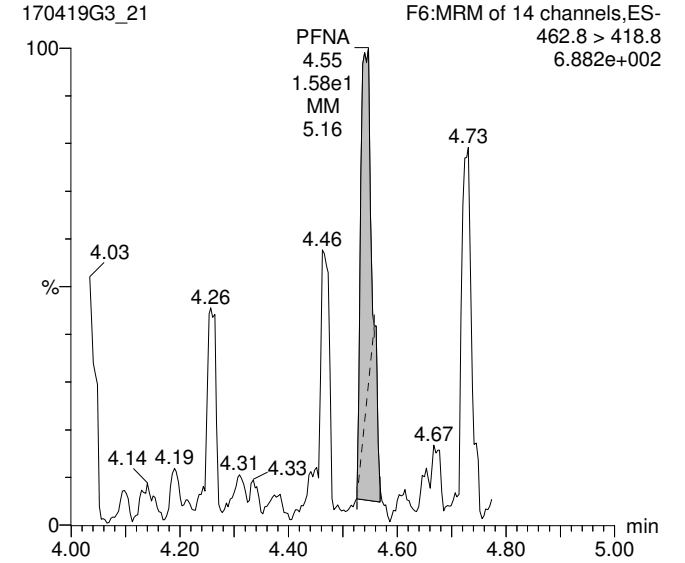
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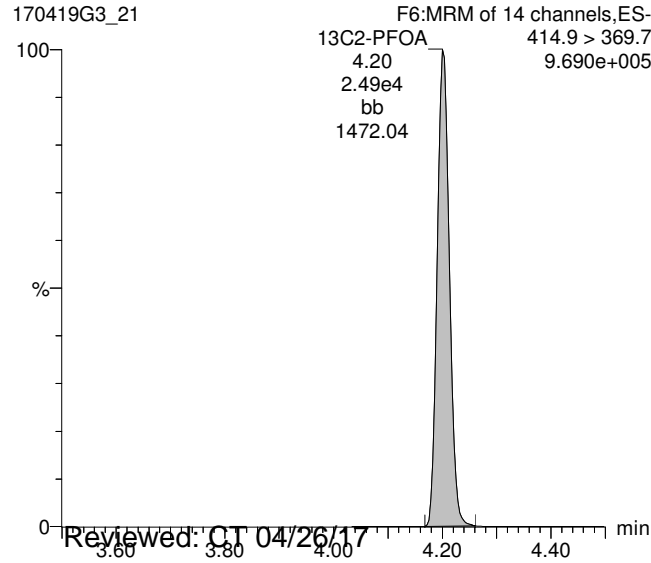
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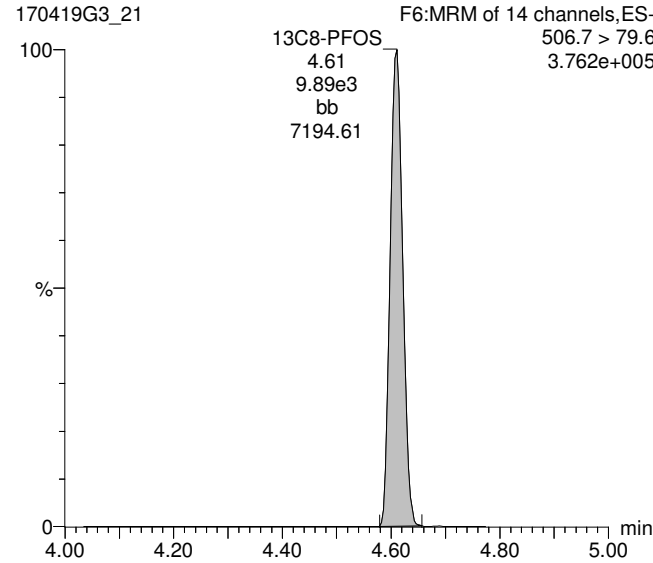
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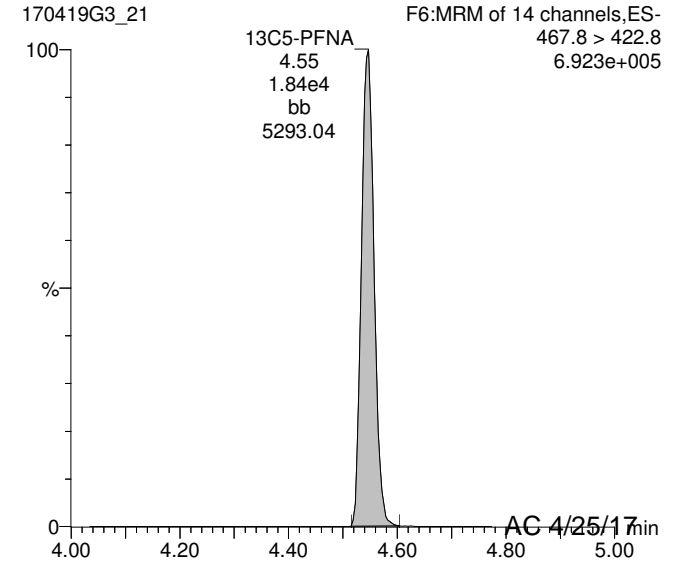
13C2-PFOA



13C8-PFOS



13C5-PFNA



Reviewed: 01/04/26/17

AC 4/25/17

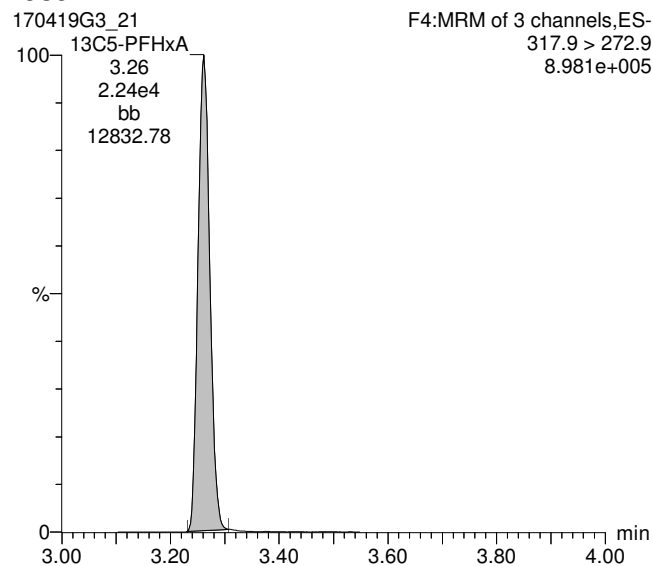
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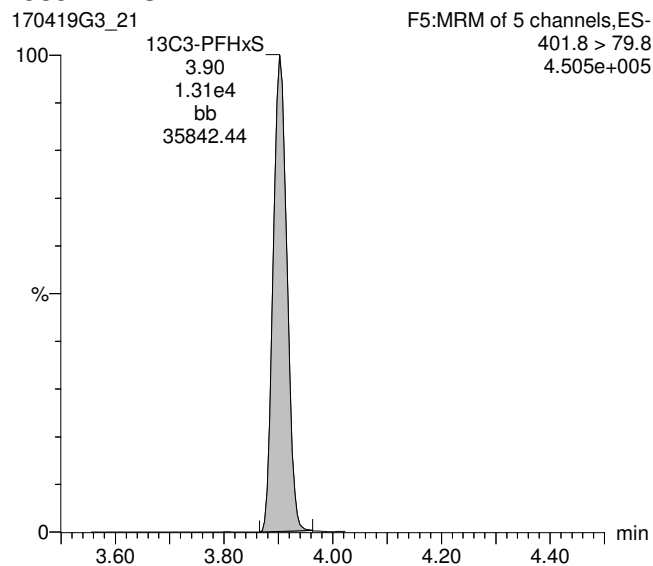
Printed: Tuesday, April 25, 2017 14:09:36 Pacific Daylight Time

ID: 1700458-02 OF-MW32D-0417 0.125, Description: OF-MW32D-0417, Name: 170419G3_21, Date: 19-Apr-2017, Time: 19:34:26, Instrument: , Lab: , User:

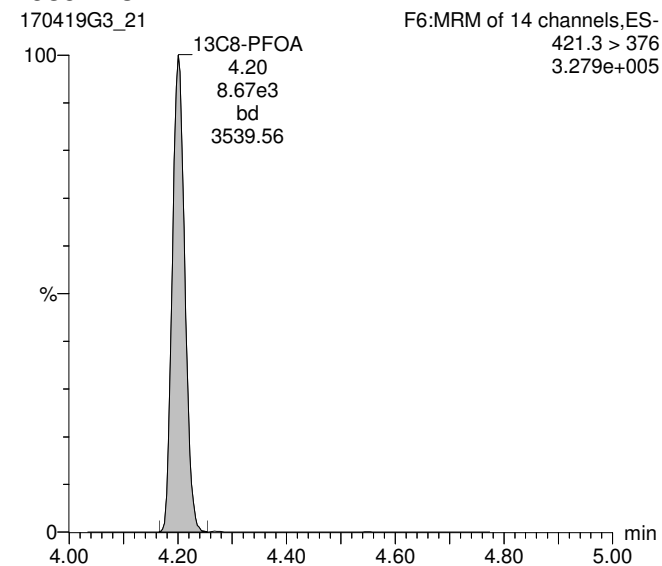
13C5-PFHxA



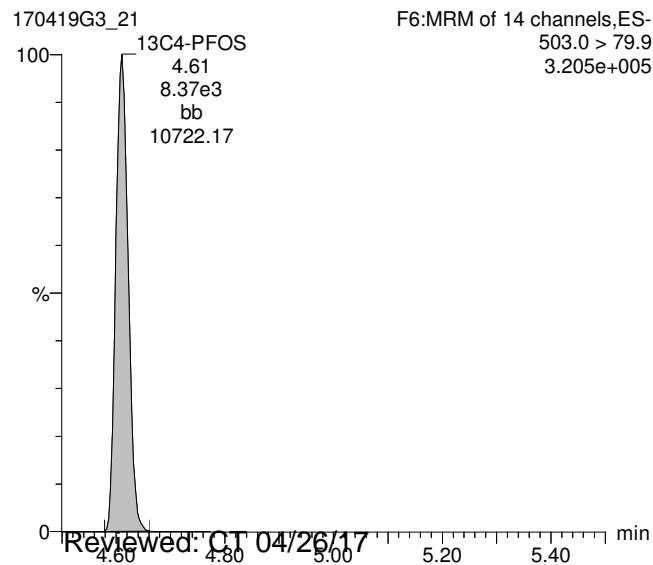
13C3-PFHxS



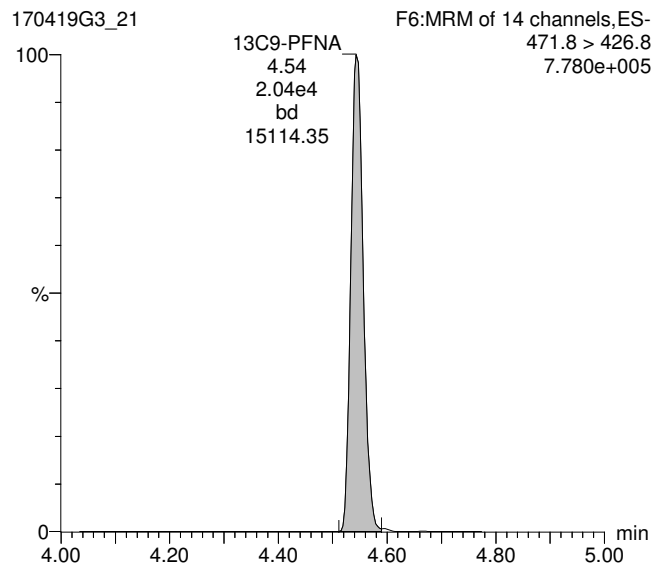
13C8-PFOA



13C4-PFOS



13C9-PFNA



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-22.qld

Last Altered: Tuesday, April 25, 2017 14:30:17 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:35:29 Pacific Daylight Time

Method: Untitled 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-03 OF-MW32DP-0417 0.125, Description: OF-MW32DP-0417, Name: 170419G3_22, Date: 19-Apr-2017, Time: 19:47:00

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	3.311e1	1.619e4		0.122	2.90	0.315	
2	5 PFHpA	363 > 318.9	4.730e1	1.015e4		0.122	3.79	0.220	
3	6 PFHxS	398.8 > 79.8	7.143e1	5.068e3		0.122	3.91	0.117	
4	8 PFOA	412.8 > 369	2.046e2	2.069e4		0.122	4.20	0.135	
5	10 PFOS	498.7 >79.8	1.545e2	8.361e3		0.122	4.49	2.10	
6	11 PFNA	462.8 > 418.8	1.290e1	1.685e4		0.122	4.56	0.0665	
7	14 13C3-PFBA	215.9 > 171.8	1.798e4	1.657e4	1.168	0.122	1.65	95.4	92.9
8	15 13C3-PFPeA	266>221.8	7.032e3	2.186e4	0.379	0.122	2.64	87.1	84.8
9	16 13C3-PFBS	301.8 > 79.7	1.619e4	2.186e4	0.728	0.122	2.89	105	102
10	17 13C2-PFHxA	315 > 269.8	7.078e3	2.186e4	0.860	0.122	3.26	38.7	94.1
11	18 13C4-PFHpA	367.2 > 321.8	1.015e4	1.219e4	0.961	0.122	3.78	89.0	86.6
12	19 18O2-PFHxS	403 > 102.6	5.068e3	1.219e4	0.442	0.122	3.90	96.7	94.1
13	20 13C2-6:2 FTS	428.8 > 408.8	8.898e3	7.791e3	1.162	0.122	4.15	101	98.3
14	21 13C2-PFOA	414.9 > 369.7	2.069e4	7.791e3	3.233	0.122	4.20	84.3	82.1
15	22 13C8-PFOS	506.7 > 79.6	8.361e3	8.662e3	1.277	0.122	4.61	77.6	75.6
16	23 13C5-PFNA	467.8 > 422.8	1.685e4	1.796e4	1.010	0.122	4.54	95.4	92.9
17	24 13C2-PFDA	514.8 > 469.7	1.662e4	7.412e3	2.247	0.122	4.84	102	99.8
18	25 13C2-8:2 FTS	529.1 > 508.7	2.446e3	7.412e3	0.335	0.122	4.82	101	98.4
19	26 13C4-PFBA	216.9 > 171.8	1.657e4	1.657e4	1.000	0.122	1.65	103	100
20	27 13C5-PFHxA	317.9 > 272.9	2.186e4	2.186e4	1.000	0.122	3.26	103	100
21	28 13C3-PFHxS	401.8 > 79.8	1.219e4	1.219e4	1.000	0.122	3.90	103	100
22	29 13C8-PFOA	421.3 > 376	7.791e3	7.791e3	1.000	0.122	4.20	103	100
23	30 13C4-PFOS	503.0 > 79.9	8.662e3	8.662e3	1.000	0.122	4.61	103	100
24	31 13C9-PFNA	471.8 > 426.8	1.796e4	1.796e4	1.000	0.122	4.54	103	100
25	32 13C6-PFDA	519.1 > 473.7	7.412e3	7.412e3	1.000	0.122	4.84	103	100
26	33 Total PFBS	298.8 > 79.7		5.068e3		0.122		0.315	
27	34 Total PFHxS	398.8 > 79.8		5.068e3		0.122		0.117	
28	35 Total PFOA	412.8 > 369		2.069e4		0.122		0.135	
29	36 Total PFOS	498.7 >79.8		8.361e3		0.122		2.10	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-22.qld

Last Altered: Tuesday, April 25, 2017 14:30:17 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:35:29 Pacific Daylight Time

Method: Untitled 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-03 OF-MW32DP-0417 0.125, Description: OF-MW32DP-0417, Name: 170419G3_22, Date: 19-Apr-2017, Time: 19:47:00

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.90	33.111	16187.040	0.3

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.91	71.430	5067.653	0.1

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	204.554	20688.695	0.1
2	35 Total PFOA	412.8 > 369	4.61	30.601	20688.695	
3	35 Total PFOA	412.8 > 369	4.63	14.315	20688.695	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.49	154.495	8360.640	2.1

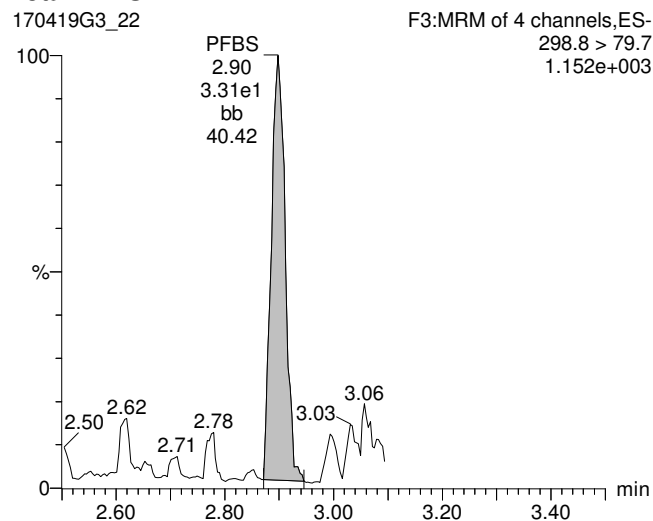
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Printed: Tuesday, April 25, 2017 14:35:29 Pacific Daylight Time

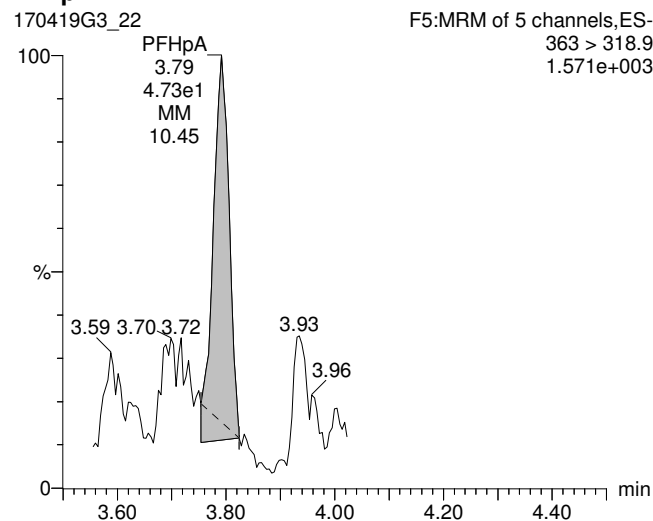
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ID: 1700458-03 OF-MW32DP-0417 0.125, Description: OF-MW32DP-0417, Name: 170419G3_22, Date: 19-Apr-2017, Time: 19:47:00, Instrument: , Lab: , User:

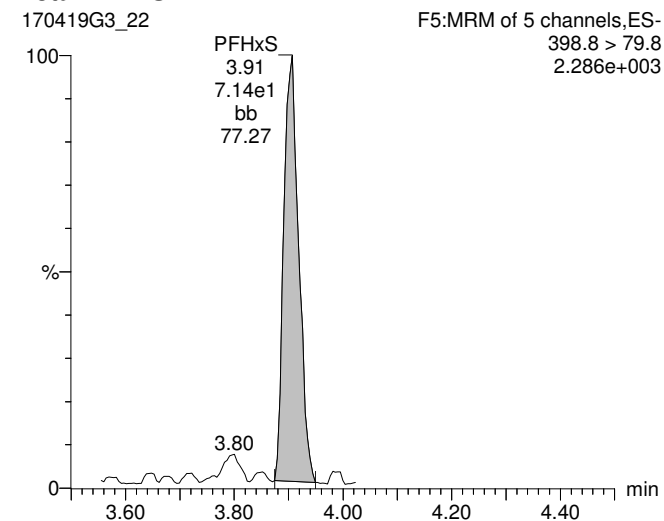
Total PFBS



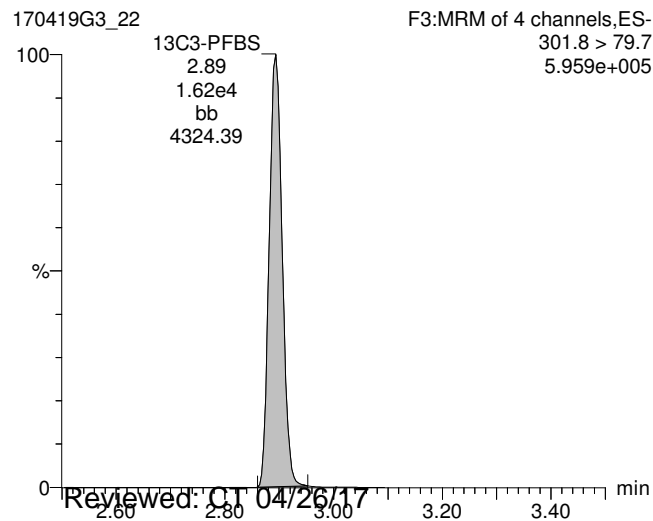
PFHpA



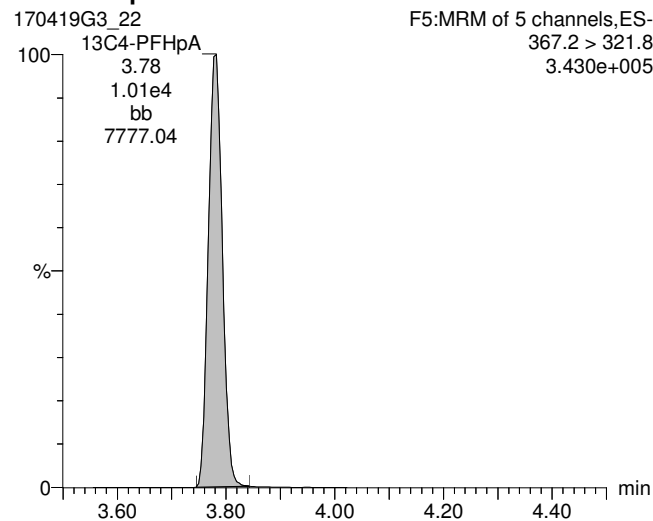
Total PFHxS



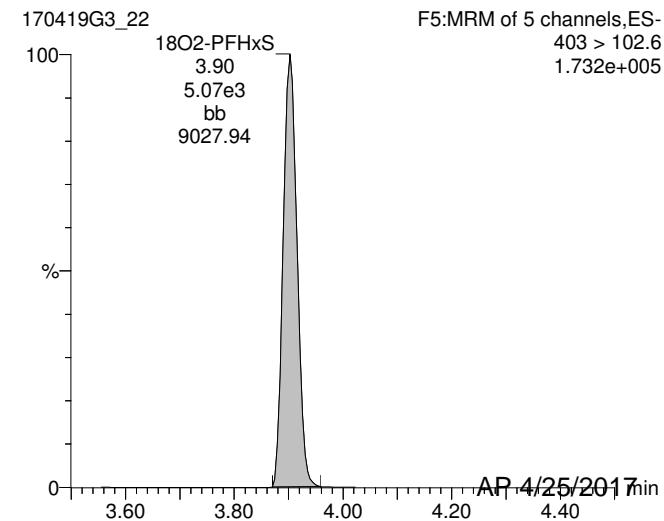
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



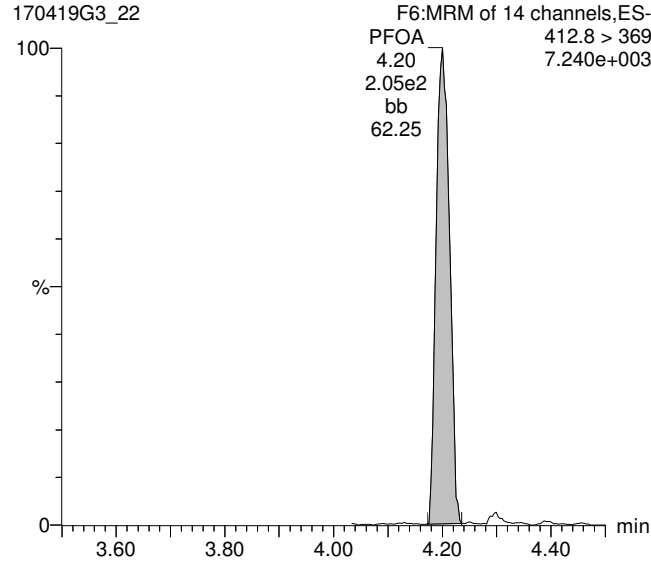
Reviewed: 01/04/26/17
Work Order 1700458

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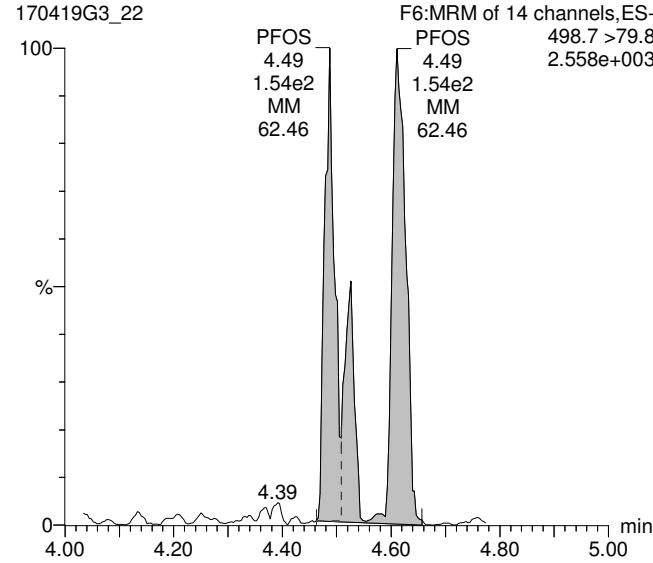
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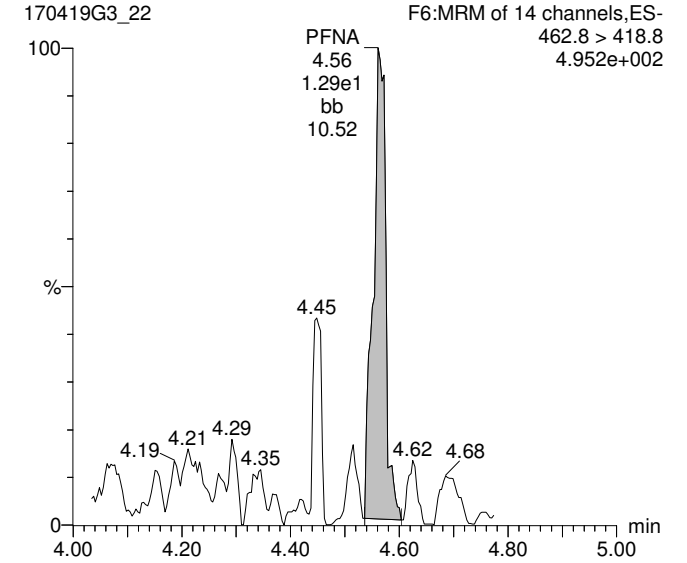
Total PFOA



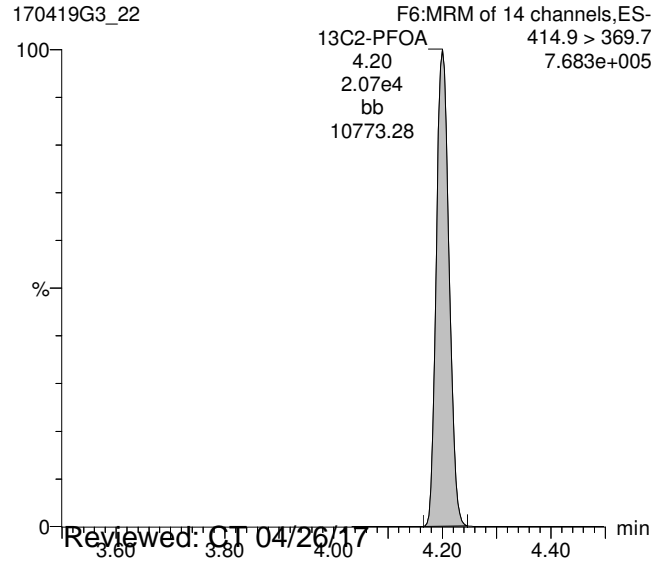
Total PFOS



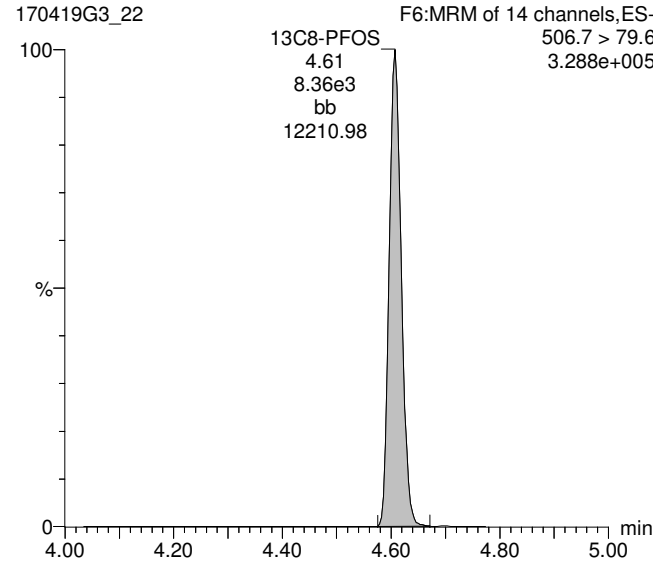
PFNA



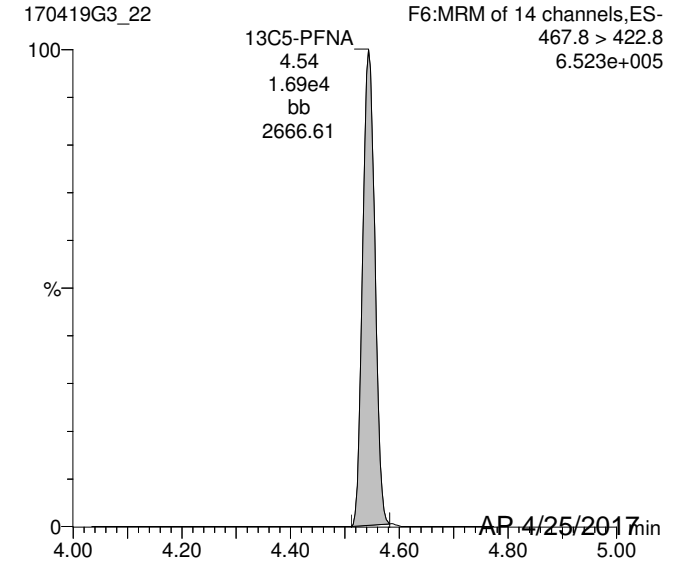
13C2-PFOA



13C8-PFOS



13C5-PFNA



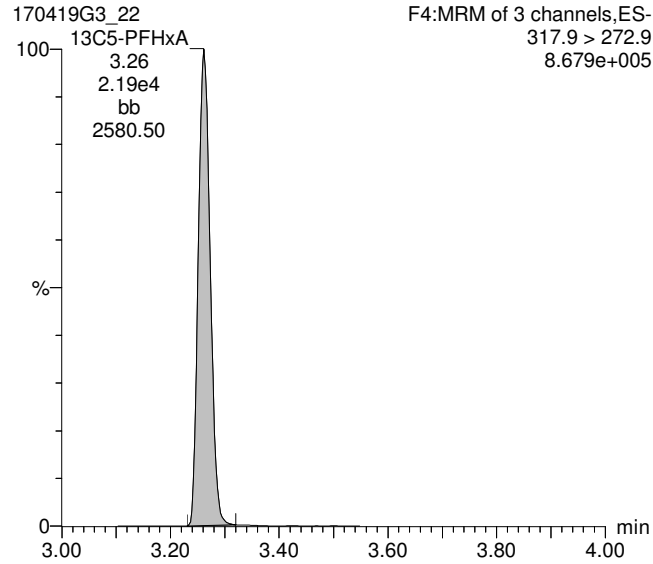
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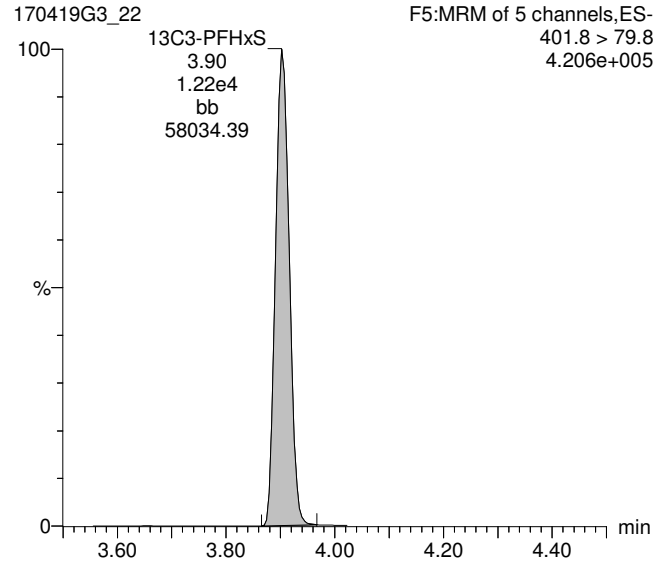
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ID: 1700458-03 OF-MW32DP-0417 0.125, Description: OF-MW32DP-0417, Name: 170419G3_22, Date: 19-Apr-2017, Time: 19:47:00, Instrument: , Lab: , User:

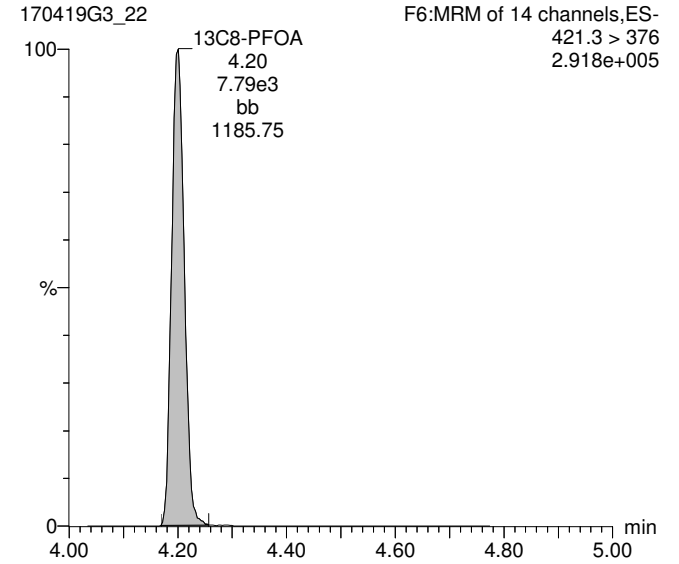
13C5-PFHxA



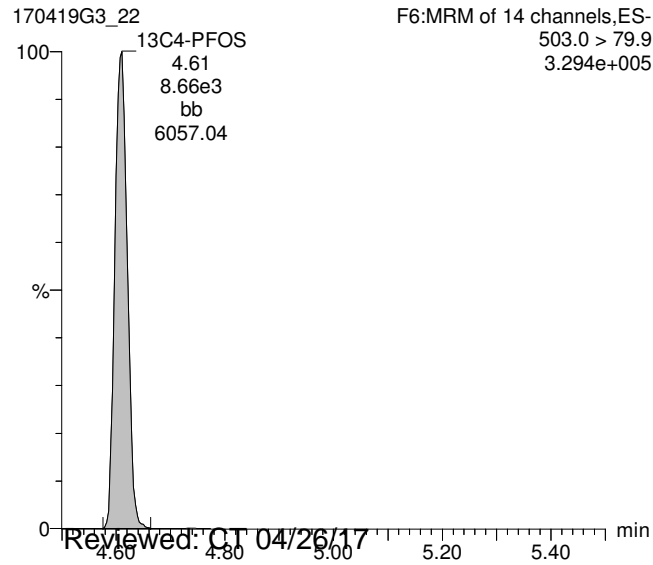
13C3-PFHxS



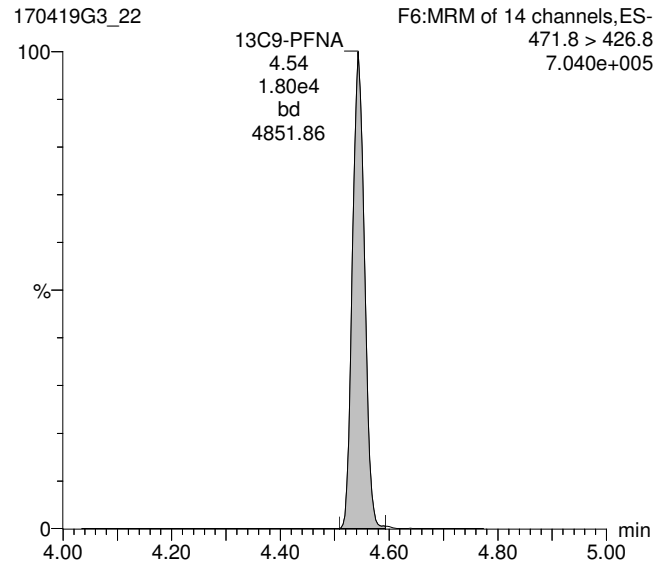
13C8-PFOA



13C4-PFOS



13C9-PFNA



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-26.qld

Last Altered: Tuesday, April 25, 2017 14:33:40 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:34:36 Pacific Daylight Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-04 OF-EB041417 0.125, Description: OF-EB041417, Name: 170419G3_26, Date: 19-Apr-2017, Time: 20:38:00

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	1.040e1	1.650e4		0.120	2.89	0.154	
2	5 PFHpA	363 > 318.9	2.802e1	1.055e4		0.120	3.78	0.113	
3	6 PFHxS	398.8 > 79.8	5.678e1	5.330e3		0.120	3.91		
4	8 PFOA	412.8 > 369	1.226e2	2.209e4		0.120	4.20		
5	10 PFOS	498.7 > 79.8	1.059e1	1.003e4		0.120	4.53	0.546	
6	11 PFNA	462.8 > 418.8	1.080e1	1.728e4		0.120	4.54	0.0506	
7	14 13C3-PFBA	215.9 > 171.8	1.917e4	1.671e4	1.168	0.120	1.67	102	98.2
8	15 13C3-PFPeA	266 > 221.8	7.573e3	2.178e4	0.379	0.120	2.64	95.3	91.6
9	16 13C3-PFBS	301.8 > 79.7	1.650e4	2.178e4	0.728	0.120	2.89	108	104
10	17 13C2-PFHxA	315 > 269.8	7.400e3	2.178e4	0.860	0.120	3.26	41.1	98.8
11	18 13C4-PFHpA	367.2 > 321.8	1.055e4	1.254e4	0.961	0.120	3.78	91.1	87.6
12	19 18O2-PFHxS	403 > 102.6	5.330e3	1.254e4	0.442	0.120	3.91	100	96.3
13	20 13C2-6:2 FTS	428.8 > 408.8	7.664e3	8.111e3	1.162	0.120	4.15	84.6	81.3
14	21 13C2-PFOA	414.9 > 369.7	2.209e4	8.111e3	3.233	0.120	4.20	87.6	84.2
15	22 13C8-PFOS	506.7 > 79.6	1.003e4	7.932e3	1.277	0.120	4.61	103	99.0
16	23 13C5-PFNA	467.8 > 422.8	1.728e4	1.860e4	1.010	0.120	4.54	95.7	92.0
17	24 13C2-PFDA	514.8 > 469.7	1.871e4	9.366e3	2.247	0.120	4.84	92.5	88.9
18	25 13C2-8:2 FTS	529.1 > 508.7	3.115e3	9.366e3	0.335	0.120	4.82	103	99.2
19	26 13C4-PFBA	216.9 > 171.8	1.671e4	1.671e4	1.000	0.120	1.67	104	100
20	27 13C5-PFHxA	317.9 > 272.9	2.178e4	2.178e4	1.000	0.120	3.26	104	100
21	28 13C3-PFHxS	401.8 > 79.8	1.254e4	1.254e4	1.000	0.120	3.91	104	100
22	29 13C8-PFOA	421.3 > 376	8.111e3	8.111e3	1.000	0.120	4.20	104	100
23	30 13C4-PFOS	503.0 > 79.9	7.932e3	7.932e3	1.000	0.120	4.61	104	100
24	31 13C9-PFNA	471.8 > 426.8	1.860e4	1.860e4	1.000	0.120	4.54	104	100
25	32 13C6-PFDA	519.1 > 473.7	9.366e3	9.366e3	1.000	0.120	4.84	104	100
26	33 Total PFBS	298.8 > 79.7		5.330e3		0.120		0.154	
27	34 Total PFHxS	398.8 > 79.8		5.330e3		0.120			
28	35 Total PFOA	412.8 > 369		2.209e4		0.120			
29	36 Total PFOS	498.7 > 79.8		1.003e4		0.120		0.546	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-26.qld

Last Altered: Tuesday, April 25, 2017 14:33:40 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:34:36 Pacific Daylight Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-04 OF-EB041417 0.125, Description: OF-EB041417, Name: 170419G3_26, Date: 19-Apr-2017, Time: 20:38:00

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.89	10.396	16497.744	0.2

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.91	56.777	5329.979	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	35 Total PFOA	412.8 > 369	4.60	26.904	22092.404	
2	8 PFOA	412.8 > 369	4.20	122.597	22092.404	
3	35 Total PFOA	412.8 > 369	4.62	8.030	22092.404	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.53	10.587	10034.743	0.5

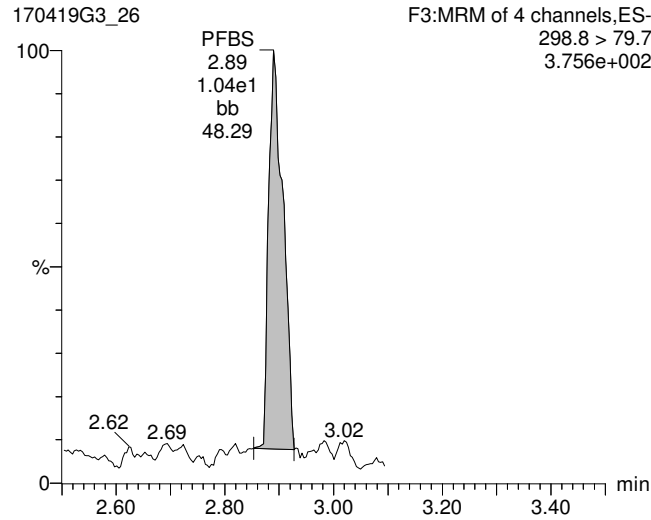
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Last Altered: Tuesday, April 25, 2017 14:33:40 Pacific Daylight Time
Printed: Tuesday, April 25, 2017 14:34:36 Pacific Daylight Time

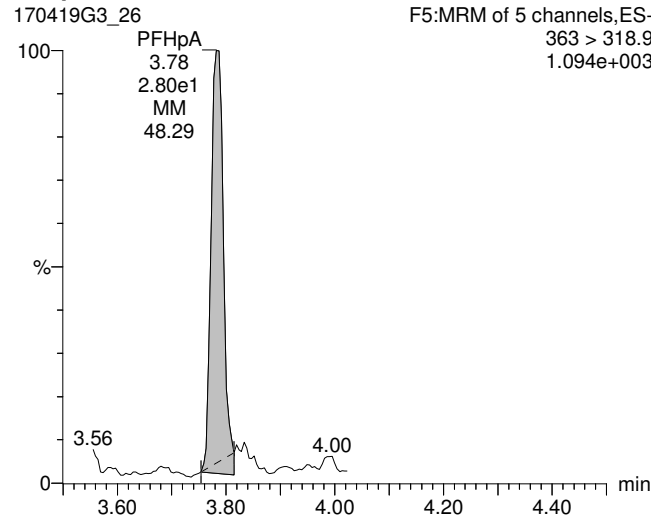
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ID: 1700458-04 OF-EB041417 0.125, Description: OF-EB041417, Name: 170419G3_26, Date: 19-Apr-2017, Time: 20:38:00, Instrument: , Lab: , User:

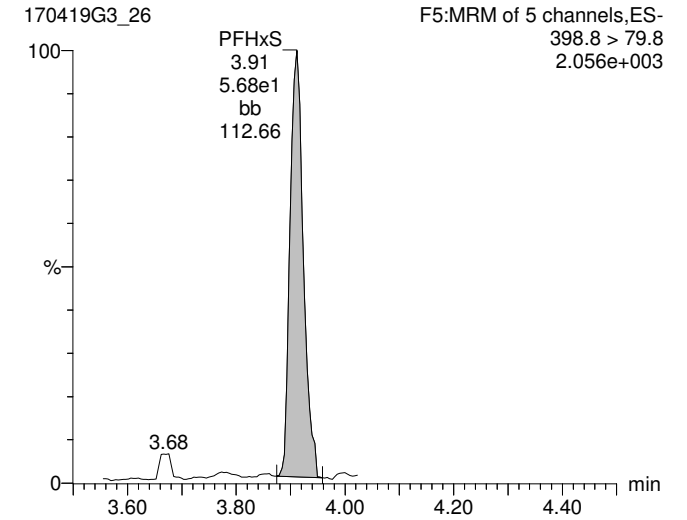
Total PFBS



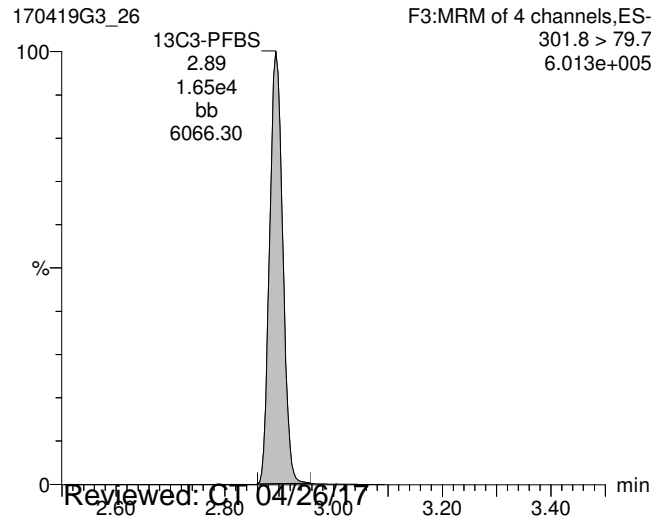
PFHpA



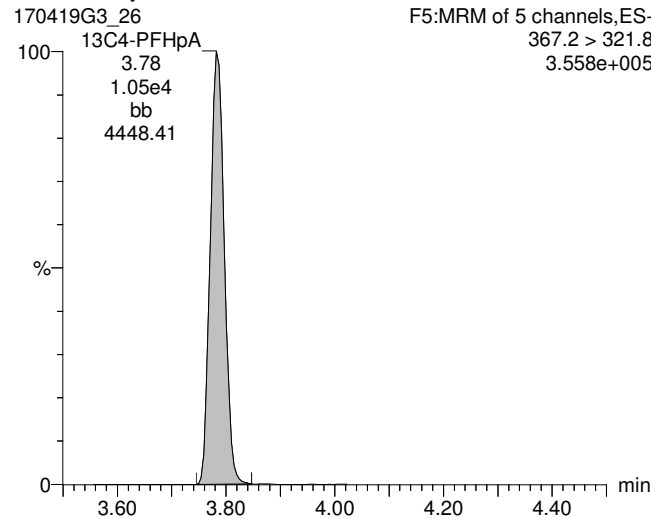
Total PFHxS



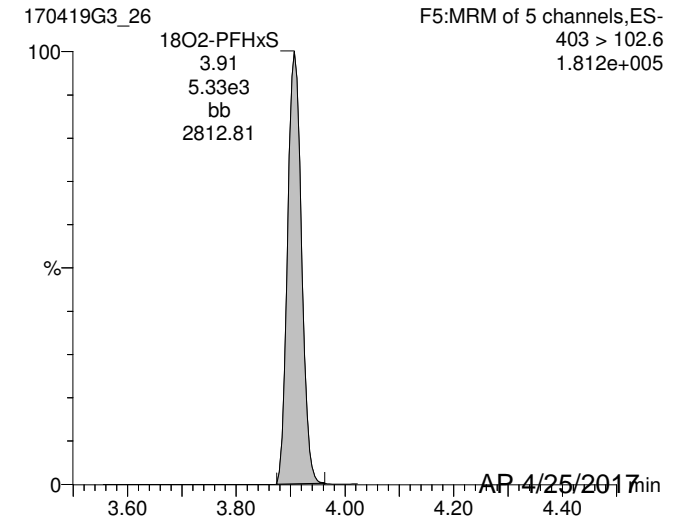
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-26.qld

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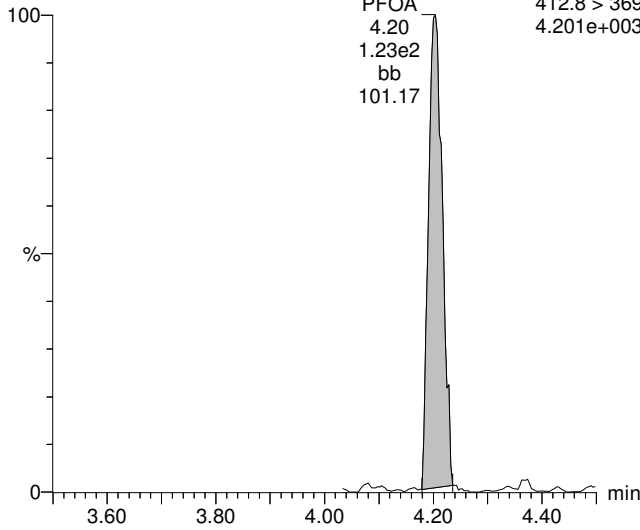
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Total PFOA

170419G3_26

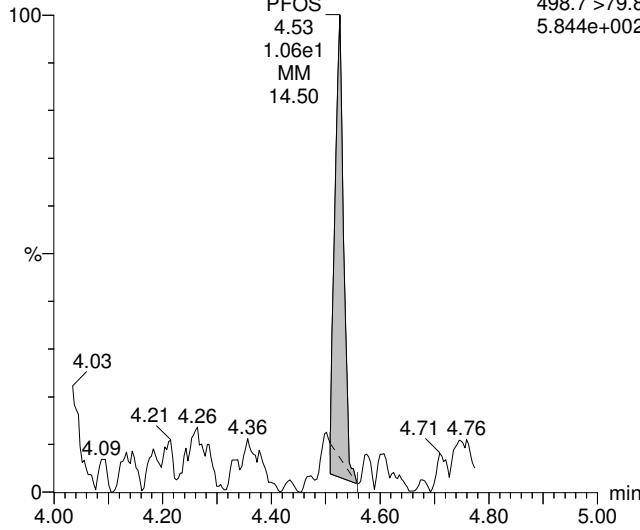
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PFOA 412.8 > 369
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1.23e2
bb
101.17



Total PFOS

170419G3_26

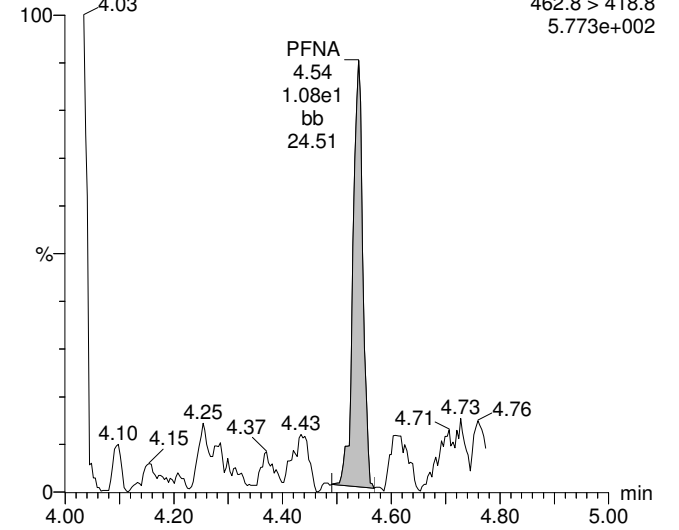
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PFNA

170419G3_26

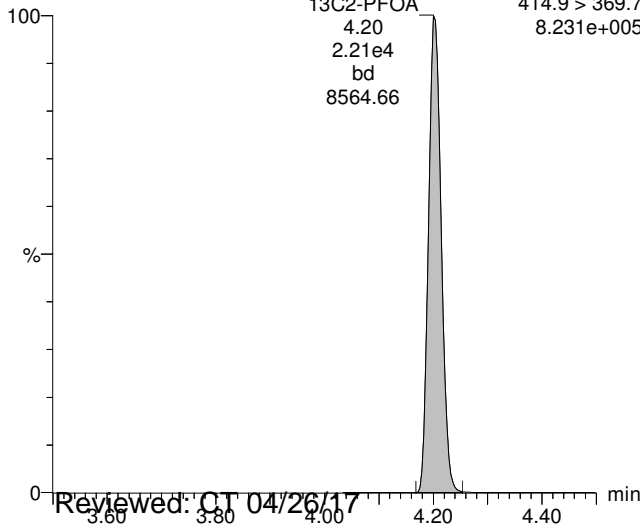
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1.08e1
bb
24.51



13C2-PFOA

170419G3_26

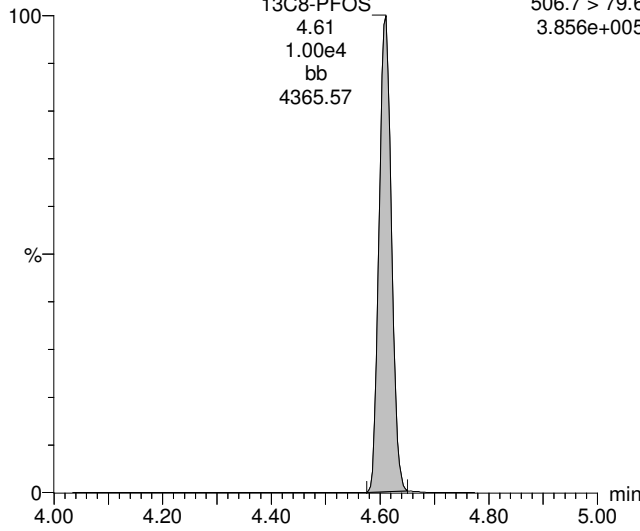
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4.20 8.231e+005
2.21e4
bd
8564.66



13C8-PFOS

170419G3_26

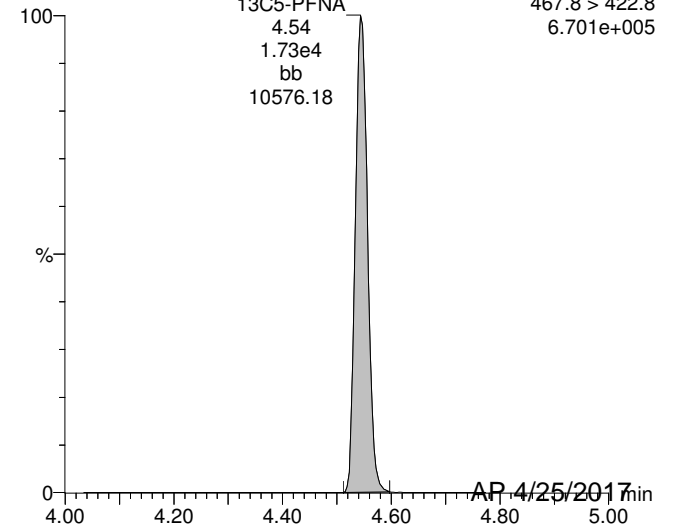
F6:MRM of 14 channels,ES-
13C8-PFOS 506.7 > 79.6
4.61 3.856e+005
1.00e4
bb
4365.57



13C5-PFNA

170419G3_26

F6:MRM of 14 channels,ES-
13C5-PFNA 467.8 > 422.8
4.54 6.701e+005
1.73e4
bb
10576.18

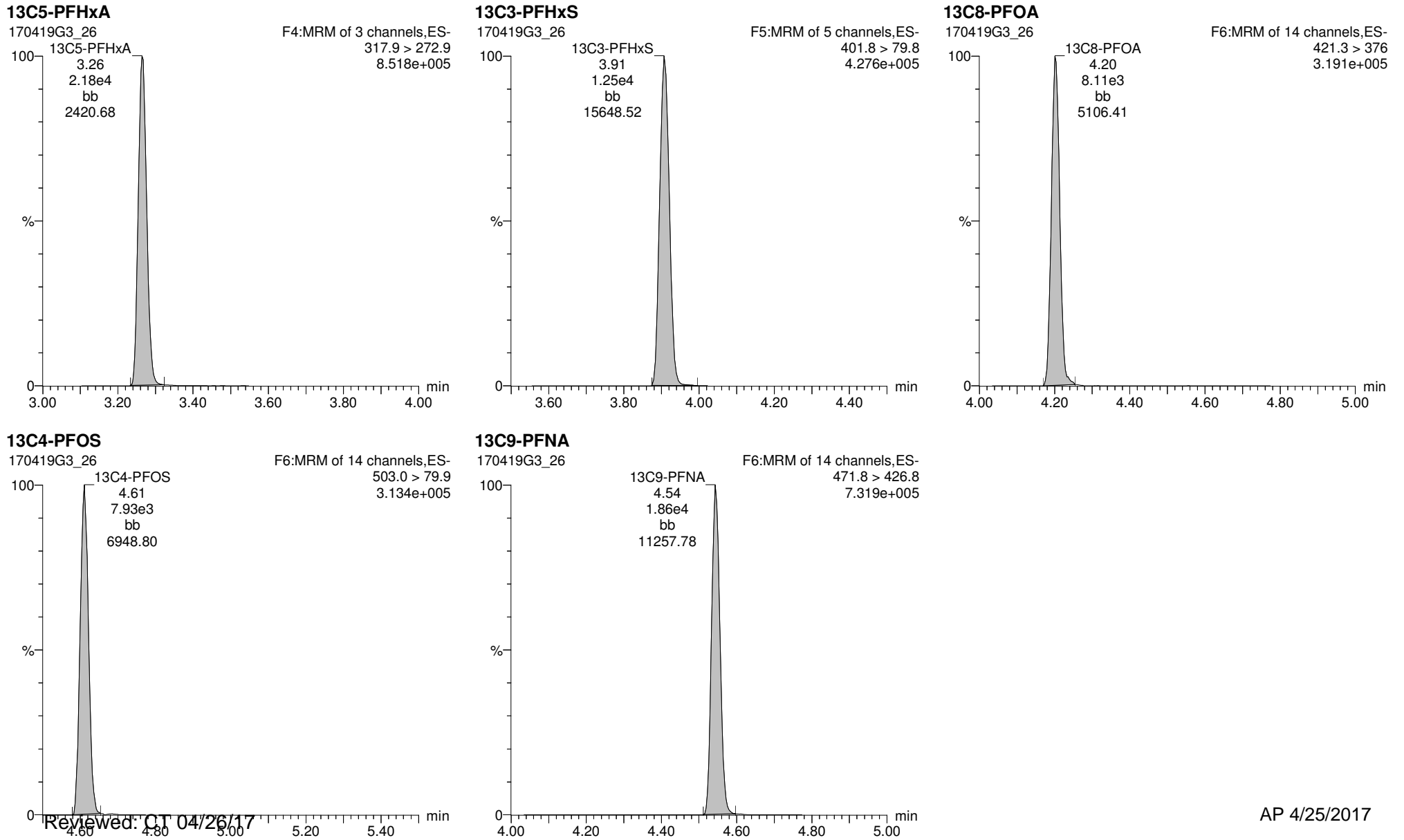


Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-26.qld

Last Altered: Tuesday, April 25, 2017 14:33:40 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:34:36 Pacific Daylight Time

ID: 1700458-04 OF-EB041417 0.125, Description: OF-EB041417, Name: 170419G3_26, Date: 19-Apr-2017, Time: 20:38:00, Instrument: , Lab: , User:



Reviewed: 01/04/26/17

Work Order 1700458

AP 4/25/2017

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-27.qld

Last Altered: Tuesday, April 25, 2017 14:37:00 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:37:17 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-05 OF-FB041417 0.125, Description: OF-FB041417, Name: 170419G3_27, Date: 19-Apr-2017, Time: 20:50:42

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	298.8 > 79.7	7.558e0	1.749e4		0.119	2.90	0.132	
2	5 PFHpA	363 > 318.9	4.850e1	1.174e4		0.119	3.79	0.196	
3	6 PFHxS	398.8 > 79.8	6.495e1	6.385e3		0.119	3.91		
4	8 PFOA	412.8 > 369	1.608e2	2.708e4		0.119	4.20		
5	10 PFOS	498.7 > 79.8	1.409e1	1.294e4		0.119	4.52	0.555	
6	11 PFNA	462.8 > 418.8		2.315e4		0.119			
7	14 13C3-PFBA	215.9 > 171.8	2.074e4	1.802e4	1.168	0.119	1.64	104	98.5
8	15 13C3-PFPeA	266 > 221.8	7.969e3	2.376e4	0.379	0.119	2.64	93.0	88.4
9	16 13C3-PFBS	301.8 > 79.7	1.749e4	2.376e4	0.728	0.119	2.89	106	101
10	17 13C2-PFHxA	315 > 269.8	8.006e3	2.376e4	0.860	0.119	3.26	41.2	98.0
11	18 13C4-PFHpA	367.2 > 321.8	1.174e4	1.468e4	0.961	0.119	3.78	87.5	83.2
12	19 18O2-PFHxS	403 > 102.6	6.385e3	1.468e4	0.442	0.119	3.91	104	98.5
13	20 13C2-6:2 FTS	428.8 > 408.8	9.105e3	9.890e3	1.162	0.119	4.15	83.3	79.2
14	21 13C2-PFOA	414.9 > 369.7	2.708e4	9.890e3	3.233	0.119	4.20	89.0	84.7
15	22 13C8-PFOS	506.7 > 79.6	1.294e4	1.185e4	1.277	0.119	4.61	89.9	85.5
16	23 13C5-PFNA	467.8 > 422.8	2.315e4	2.545e4	1.010	0.119	4.54	94.7	90.1
17	24 13C2-PFDA	514.8 > 469.7	2.469e4	1.107e4	2.247	0.119	4.84	104	99.2
18	25 13C2-8:2 FTS	529.1 > 508.7	3.886e3	1.107e4	0.335	0.119	4.82	110	105
19	26 13C4-PFBA	216.9 > 171.8	1.802e4	1.802e4	1.000	0.119	1.63	105	100
20	27 13C5-PFHxA	317.9 > 272.9	2.376e4	2.376e4	1.000	0.119	3.27	105	100
21	28 13C3-PFHxS	401.8 > 79.8	1.468e4	1.468e4	1.000	0.119	3.91	105	100
22	29 13C8-PFOA	421.3 > 376	9.890e3	9.890e3	1.000	0.119	4.20	105	100
23	30 13C4-PFOS	503.0 > 79.9	1.185e4	1.185e4	1.000	0.119	4.61	105	100
24	31 13C9-PFNA	471.8 > 426.8	2.545e4	2.545e4	1.000	0.119	4.54	105	100
25	32 13C6-PFDA	519.1 > 473.7	1.107e4	1.107e4	1.000	0.119	4.84	105	100
26	33 Total PFBS	298.8 > 79.7		6.385e3		0.119		0.132	
27	34 Total PFHxS	398.8 > 79.8		6.385e3		0.119			
28	35 Total PFOA	412.8 > 369		2.708e4		0.119			
29	36 Total PFOS	498.7 > 79.8		1.294e4		0.119		0.555	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-27.qld

Last Altered: Tuesday, April 25, 2017 14:37:00 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:37:17 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

ID: 1700458-05 OF-FB041417 0.125, Description: OF-FB041417, Name: 170419G3_27, Date: 19-Apr-2017, Time: 20:50:42

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	298.8 > 79.7	2.90	7.558	17494.043	0.1

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.8 > 79.8	3.91	64.954	6385.455	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	412.8 > 369	4.20	160.800	27077.496	
2	35 Total PFOA	412.8 > 369	4.67	5.721	27077.496	
3	35 Total PFOA	412.8 > 369	4.60	18.696	27077.496	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	498.7 > 79.8	4.52	14.087	12943.586	0.6

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-27.qld

Last Altered: Tuesday, April 25, 2017 14:37:00 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:37:17 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

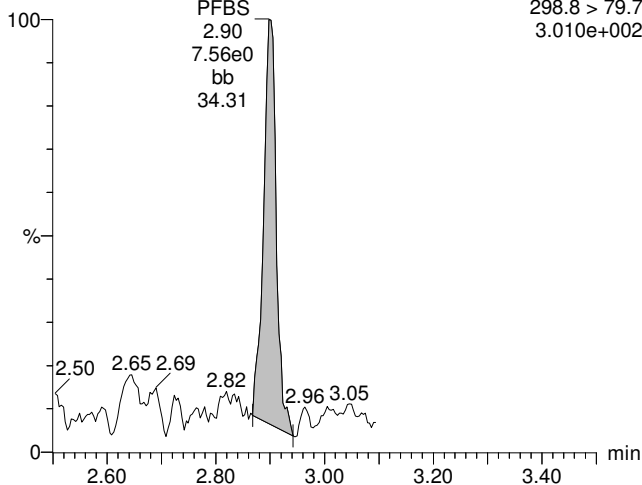
ID: 1700458-05 OF-FB041417 0.125, Description: OF-FB041417, Name: 170419G3_27, Date: 19-Apr-2017, Time: 20:50:42, Instrument: , Lab: , User:

Total PFBS

170419G3_27

F3:MRM of 4 channels,ES-
298.8 > 79.7
3.010e+002

PFBS
2.90
7.56e0
bb
34.31

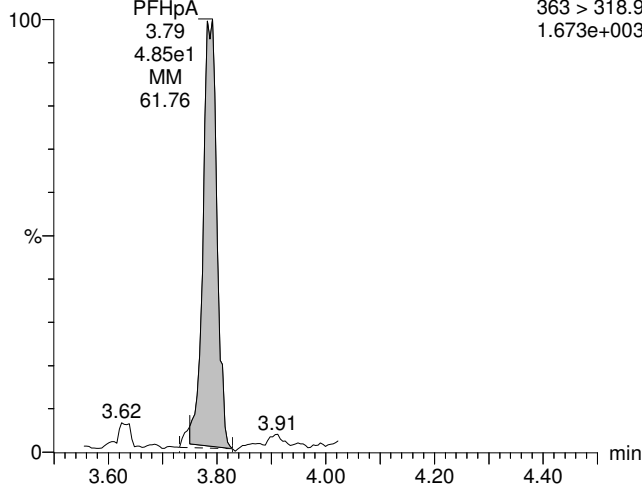


PFHpA

170419G3_27

F5:MRM of 5 channels,ES-
363 > 318.9
1.673e+003

PFHpA
3.79
4.85e1
MM
61.76

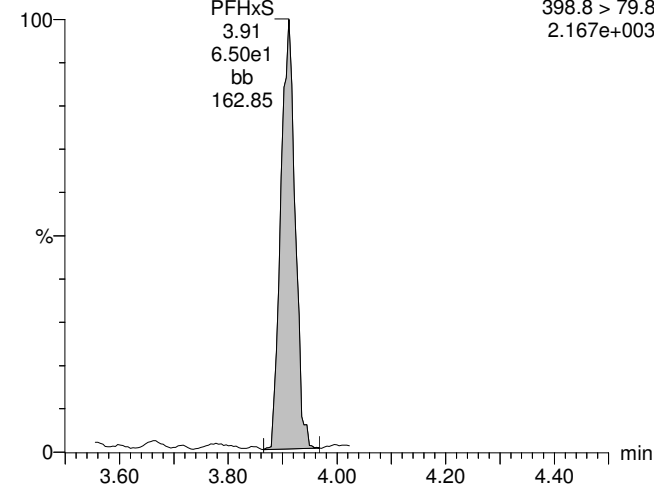


Total PFHxS

170419G3_27

F5:MRM of 5 channels,ES-
398.8 > 79.8
2.167e+003

PFHxS
3.91
6.50e1
bb
162.85

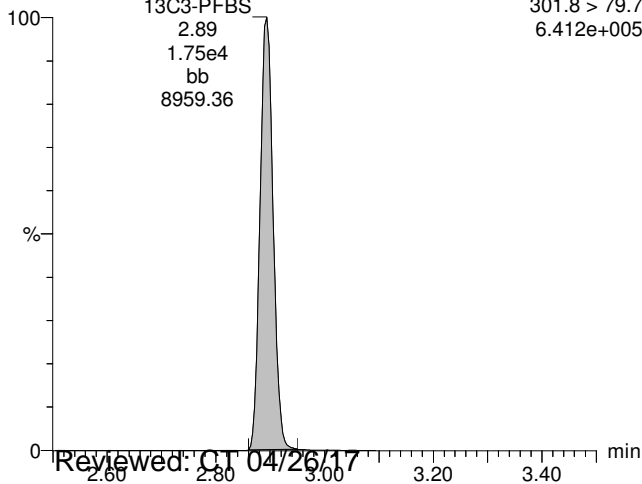


13C3-PFBS

170419G3_27

F3:MRM of 4 channels,ES-
301.8 > 79.7
6.412e+005

13C3-PFBS
2.89
1.75e4
bb
8959.36

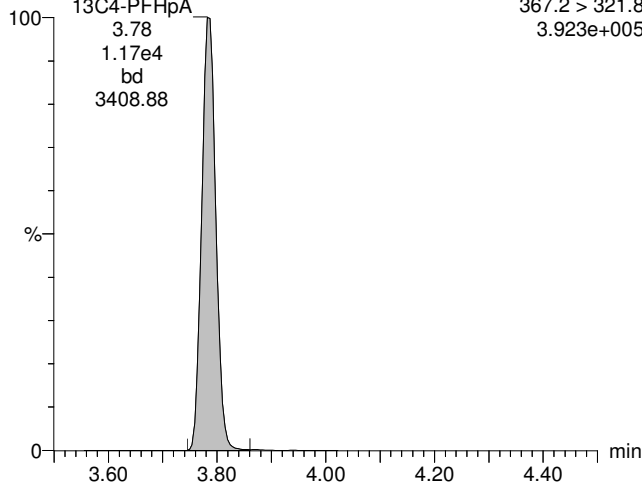


13C4-PFHpA

170419G3_27

F5:MRM of 5 channels,ES-
367.2 > 321.8
3.923e+005

13C4-PFHpA
3.78
1.17e4
bd
3408.88

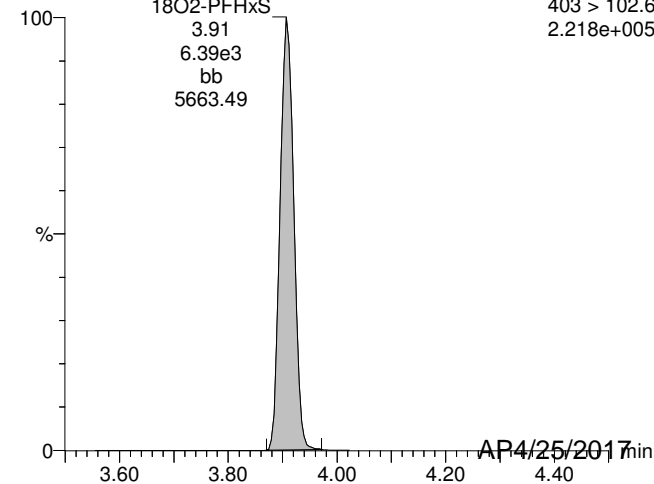


18O2-PFHxS

170419G3_27

F5:MRM of 5 channels,ES-
403 > 102.6
2.218e+005

18O2-PFHxS
3.91
6.39e3
bb
5663.49



Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-27.qld

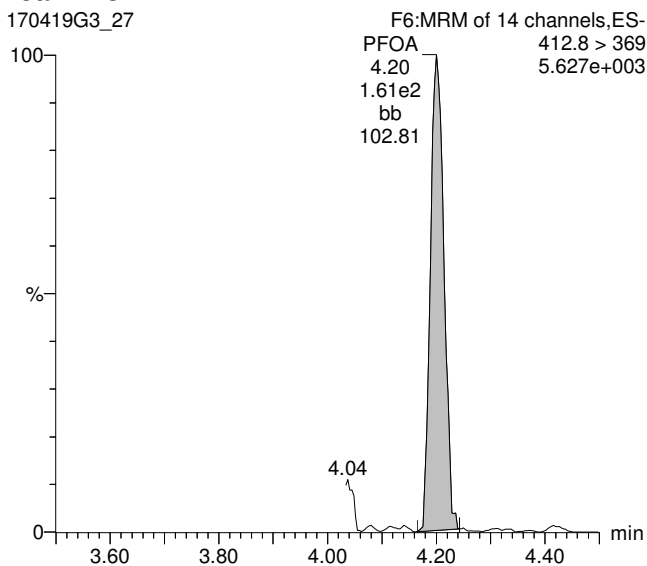
Last Altered: Tuesday, April 25, 2017 14:37:00 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:37:17 Pacific Daylight Time

ID: 1700458-05 OF-FB041417 0.125, Description: OF-FB041417, Name: 170419G3_27, Date: 19-Apr-2017, Time: 20:50:42, Instrument: , Lab: , User:

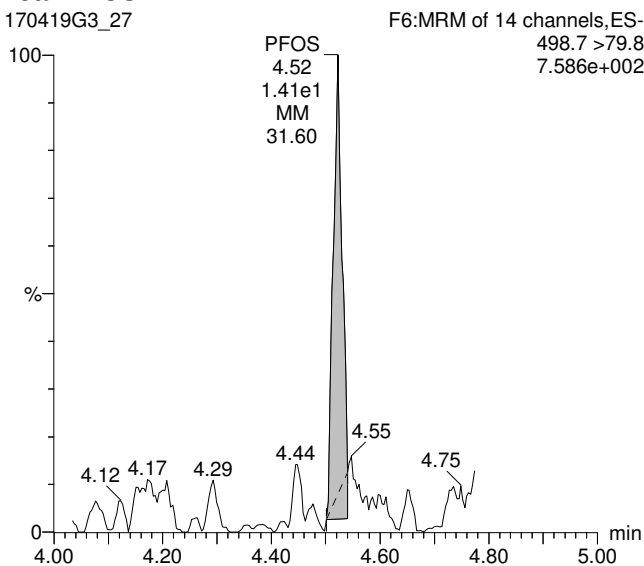
Total PFOA

170419G3_27



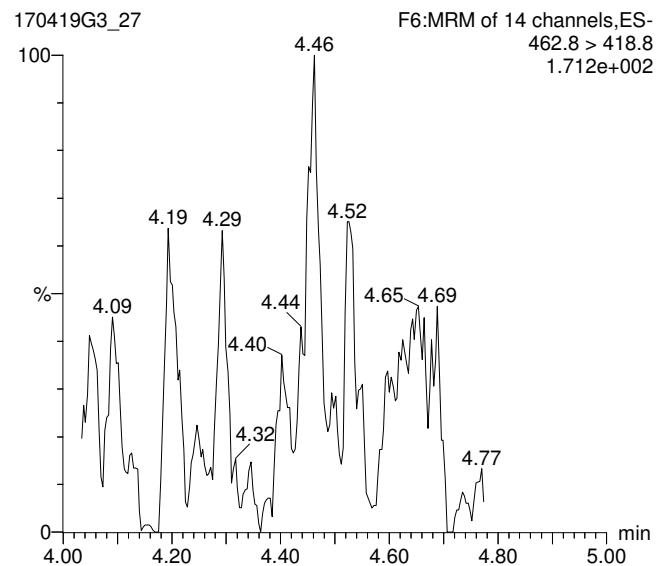
Total PFOS

170419G3_27



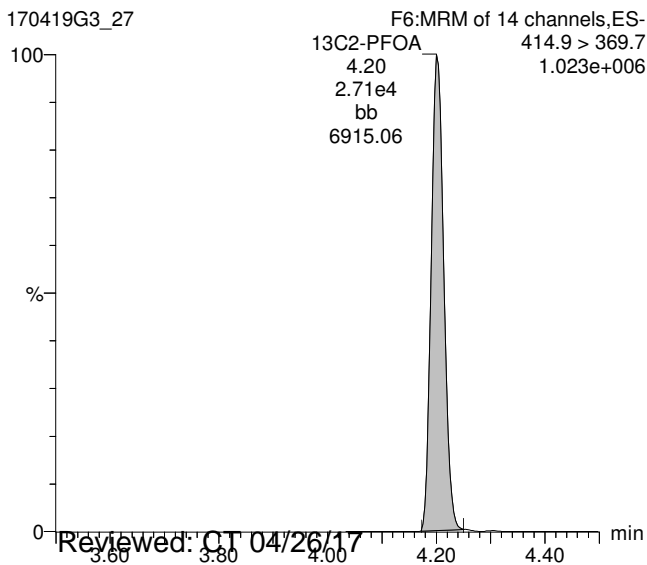
PFNA

170419G3_27



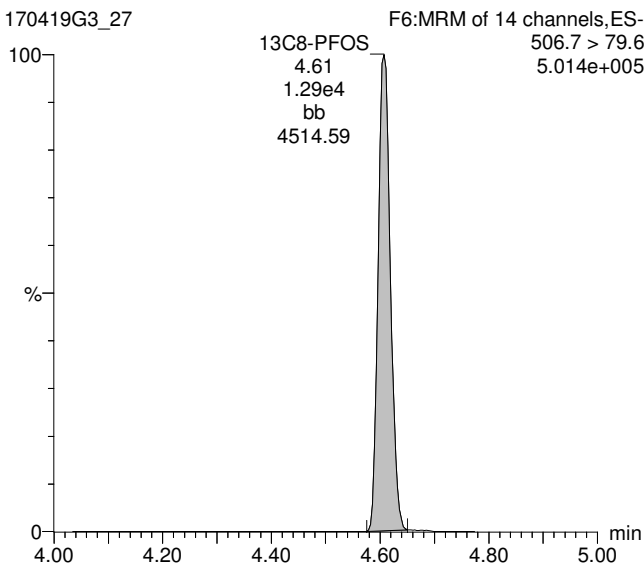
13C2-PFOA

170419G3_27



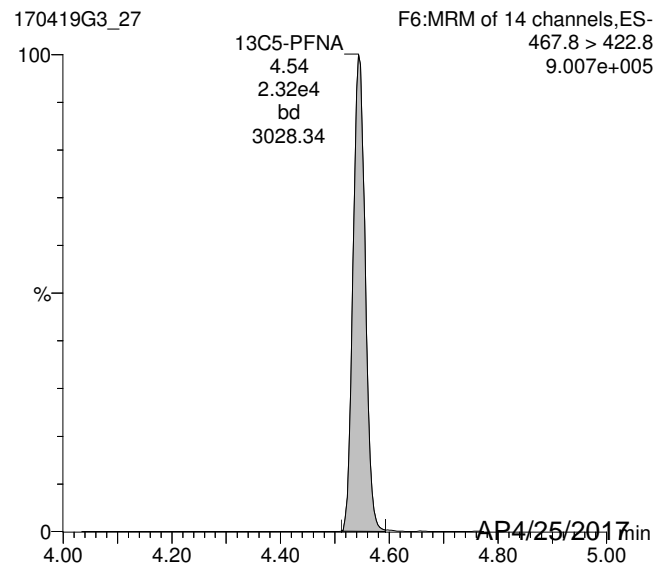
13C8-PFOS

170419G3_27



13C5-PFNA

170419G3_27



Reviewed: 01/04/26/17

Work Order 1700458

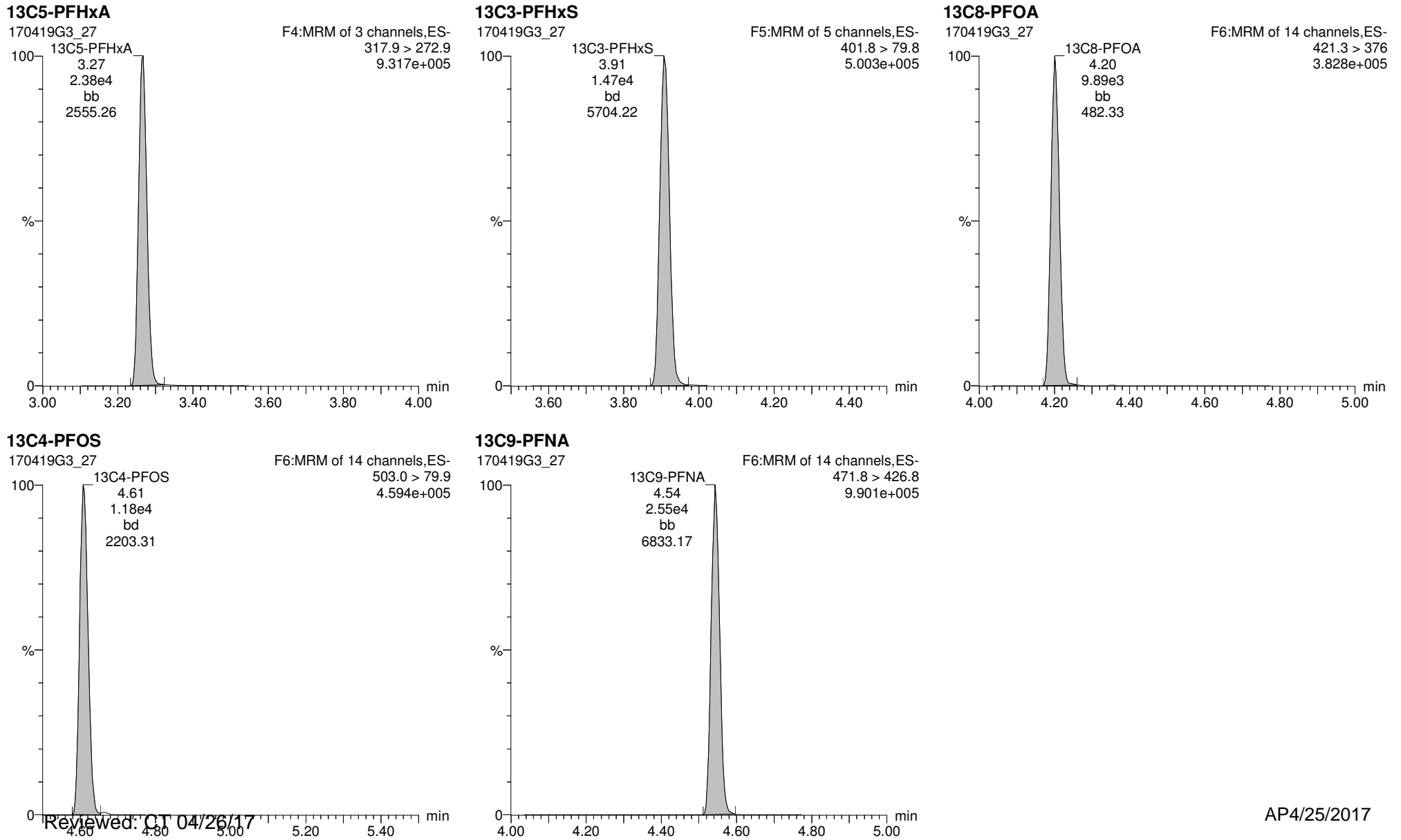
AP 4/25/2017

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-27.qld

Last Altered: Tuesday, April 25, 2017 14:37:00 Pacific Daylight Time

Printed: Tuesday, April 25, 2017 14:37:17 Pacific Daylight Time

ID: 1700458-05 OF-FB041417 0.125, Description: OF-FB041417, Name: 170419G3_27, Date: 19-Apr-2017, Time: 20:50:42, Instrument: , Lab: , User:



Reviewed: 01/04/26/17

Work Order 1700458

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CONTINUING CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170419G3\170419G3-2.qld

Last Altered: Thursday, April 20, 2017 08:50:14 Pacific Daylight Time
Printed: Thursday, April 20, 2017 08:53:42 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Name: 170419G3_2, Date: 19-Apr-2017, Time: 15:33:50, ID: ST170419G3-1 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	1.43e4	1.87e4		1.000	1.72	12.4	124.2
2	2 PFPeA	263.0 > 218.8	6.20e3	7.54e3		1.000	2.65	10.8	108.4
3	3 PFBS	298.8 > 79.7	1.33e4	1.75e4		1.000	2.90	10.7	107.1
4	4 PFHxA	312.9 > 269.1	2.13e4	7.41e3		1.000	3.28	11.8	118.0
5	5 PFHpA	363 > 318.9	1.84e4	1.10e4		1.000	3.80	11.0	110.3
6	6 PFHxS	398.8 > 79.8	1.22e4	5.85e3		1.000	3.93	10.9	108.6
7	7 6:2 FTS	426.8 > 406.8	3.89e3	2.40e4		1.000	4.17	12.6	126.5
8	8 PFOA	412.8 > 369	1.96e4	2.40e4		1.000	4.21	10.9	109.5
9	9 PFHpS	448.8 > 79.8	3.62e3	2.40e4		1.000	4.30	11.7	117.3
10	10 PFOS	498.7 > 79.8	8.56e3	8.64e3		1.000	4.62	10.9	108.6
11	11 PFNA	462.8 > 418.8	1.61e4	1.92e4		1.000	4.55	12.0	120.2
12	12 PFDA	512.8 > 468.7	8.95e3	1.41e4		1.000	4.85	10.1	101.5
13	13 8:2 FTS	526.8 > 506.9	2.72e3	2.42e3		1.000	4.83	11.1	110.6
14	14 13C3-PFBA	215.9 > 171.8	1.87e4	1.87e4	1.168	1.000	1.72	10.7	85.7
15	15 13C3-PFPeA	266 > 221.8	7.54e3	2.23e4	0.379	1.000	2.65	11.1	88.9
16	16 13C3-PFBS	301.8 > 79.7	1.75e4	2.23e4	0.728	1.000	2.90	13.4	107.4
17	17 13C2-PFHxA	315 > 269.8	7.41e3	2.23e4	0.860	1.000	3.28	4.82	96.4
18	18 13C4-PFHxA	367.2 > 321.8	1.10e4	1.40e4	0.961	1.000	3.80	10.3	82.0
19	19 18O2-PFHxS	403 > 102.6	5.85e3	1.40e4	0.442	1.000	3.92	11.8	94.8
20	20 13C2-6:2 FTS	428.8 > 408.8	9.86e3	9.66e3	1.162	1.000	4.17	11.0	87.8
21	21 13C2-PFOA	414.9 > 369.7	2.40e4	9.66e3	3.233	1.000	4.21	9.60	76.8
22	22 13C8-PFOS	506.7 > 79.6	8.64e3	7.92e3	1.277	1.000	4.62	10.7	85.4
23	23 13C5-PFNA	467.8 > 422.8	1.92e4	1.92e4	1.010	1.000	4.55	12.4	99.1
24	24 13C2-PFDA	514.8 > 469.7	1.41e4	6.38e3	2.247	1.000	4.85	12.3	98.5
25	25 13C2-8:2 FTS	529.1 > 508.7	2.42e3	6.38e3	0.335	1.000	4.83	14.1	113.0
26	26 13C4-PFBA	216.9 > 171.8	1.87e4	1.87e4	1.000	1.000	1.72	12.5	100.0
27	27 13C5-PFHxA	317.9 > 272.9	2.23e4	2.23e4	1.000	1.000	3.28	12.5	100.0
28	28 13C3-PFHxS	401.8 > 79.8	1.40e4	1.40e4	1.000	1.000	3.92	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	9.66e3	9.66e3	1.000	1.000	4.21	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	7.92e3	7.92e3	1.000	1.000	4.62	12.5	100.0
31	31 13C9-PFNA	471.8 > 426.8	1.92e4	1.92e4	1.000	1.000	4.55	12.5	100.0
32	32 13C6-PFDA	519.1 > 473.7	6.38e3	6.38e3	1.000	1.000	4.85	12.5	100.0

75-125
*
75-125

* point was excluded.

DM
4/20/17

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 09:00:22 Pacific Daylight Time

Printed: Thursday, April 20, 2017 09:00:36 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170419G3_1	IPA	19-Apr-17	15:21:13
2	170419G3_2	ST170419G3-1 PFC CS3 17D1903	19-Apr-17	15:33:50
3	170419G3_3	IPA	19-Apr-17	15:46:24
4	170419G3_4	B7D0075-BS1 OPR 0.125	19-Apr-17	15:59:32
5	170419G3_5	B7D0079-BS1 OPR 1	19-Apr-17	16:12:26
6	170419G3_6	B7D0088-BS1 OPR 0.125	19-Apr-17	16:25:02
7	170419G3_7	IPA	19-Apr-17	16:37:38
8	170419G3_8	B7D0075-BLK1 Method Blank 0.125	19-Apr-17	16:50:16
9	170419G3_9	B7D0079-BLK1 Method Blank 1	19-Apr-17	17:02:53
10	170419G3_10	B7D0088-BLK1 Method Blank 0.125	19-Apr-17	17:15:30
11	170419G3_11	1700437-01RE1 Raw (420-119202-1) 0.27206	19-Apr-17	17:28:08
12	170419G3_12	1700438-01RE1 MTBE_8159 0.27108	19-Apr-17	17:40:46
13	170419G3_13	1700438-02RE1 MTBE_8160 0.27664	19-Apr-17	17:53:21
14	170419G3_14	1700438-03RE1 MTBE_8161 0.28033	19-Apr-17	18:05:56
15	170419G3_15	1700446-02 NORP05017 1.09	19-Apr-17	18:18:41
16	170419G3_16	1700446-04 NORP05019 1.04	19-Apr-17	18:31:21
17	170419G3_17	1700446-05 NORP05020 1.15	19-Apr-17	18:43:58
18	170419G3_18	1700458-01 OF-MW34D-0417 0.125	19-Apr-17	18:56:35
19	170419G3_19	B7D0088-MS1 Matrix Spike 0.125	19-Apr-17	19:09:13
20	170419G3_20	B7D0088-MSD1 Matrix Spike Dup 0.125	19-Apr-17	19:21:52
21	170419G3_21	1700458-02 OF-MW32D-0417 0.125	19-Apr-17	19:34:26
22	170419G3_22	1700458-03 OF-MW32DP-0417 0.125	19-Apr-17	19:47:00
23	170419G3_23	IPA	19-Apr-17	19:59:55
24	170419G3_24	ST170419G3-2 PFC CS3 17D1903	19-Apr-17	20:12:40
25	170419G3_25	IPA	19-Apr-17	20:25:14
26	170419G3_26	1700458-04 OF-EB041417 0.125	19-Apr-17	20:38:00
27	170419G3_27	1700458-05 OF-FB041417 0.125	19-Apr-17	20:50:42
28	170419G3_28	1700459-01 IDW-AQ-01-0417 0.125	19-Apr-17	21:03:19
29	170419G3_29	1700463-01 MW-5A 0.125	19-Apr-17	21:15:55
30	170419G3_30	1700463-02 MW-4 0.125	19-Apr-17	21:28:33
31	170419G3_31	1700463-03 SG-2 0.125	19-Apr-17	21:41:11

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 09:00:22 Pacific Daylight Time

Printed: Thursday, April 20, 2017 09:00:36 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170419G3_32	1700379-03@4000X 80022.03 1.1	19-Apr-17	21:53:45
33	170419G3_33	1700379-03@5000X 80022.03 1.1	19-Apr-17	22:06:20
34	170419G3_34	1700379-04@2000X 80022.03 1.107	19-Apr-17	22:19:24
35	170419G3_35	IPA	19-Apr-17	22:32:04
36	170419G3_36	ST170419G3-3 PFC CS3 17D1903	19-Apr-17	22:44:41
37	170419G3_37	IPA	19-Apr-17	22:57:15

LC Calibration Standards Review Checklist Q1

Calibration ID:	L M H	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
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Full Mass Cal. Date: 4/5/17

Run Log Present:

of Samples per Sequence Checked:

Reviewed By: CT 4/21/17
Initials/Date

Comments:
 Full A, exclude 6: 2 FTS

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 08:54:16 Pacific Daylight Time

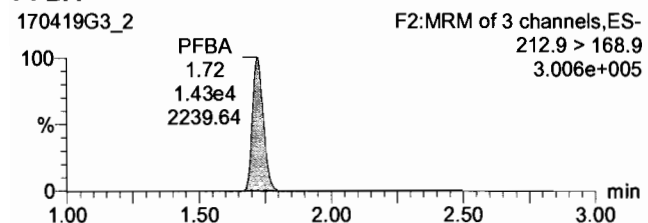
Printed: Thursday, April 20, 2017 08:54:43 Pacific Daylight Time

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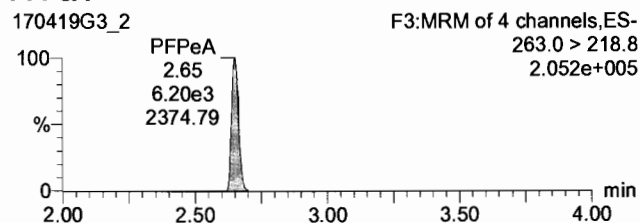
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Name: 170419G3_2, Date: 19-Apr-2017, Time: 15:33:50, ID: ST170419G3-1 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

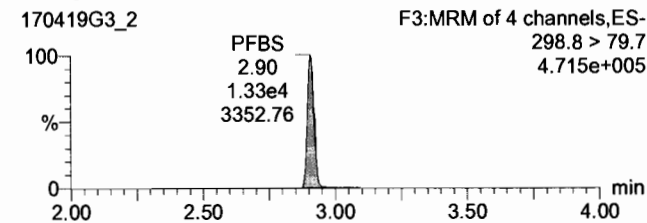
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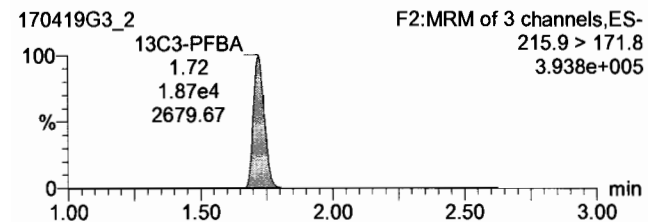
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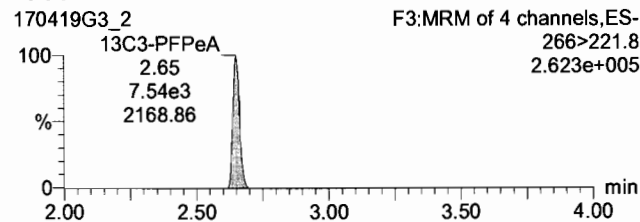
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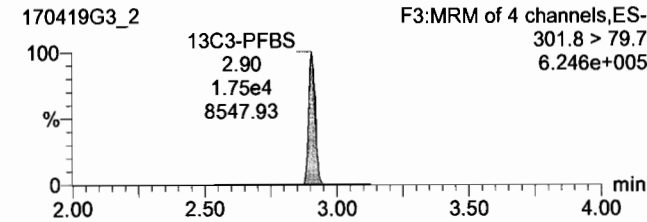
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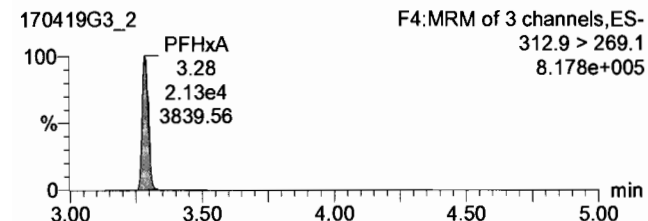
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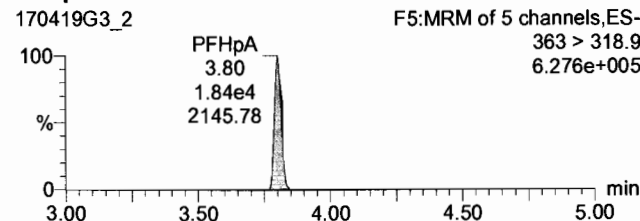
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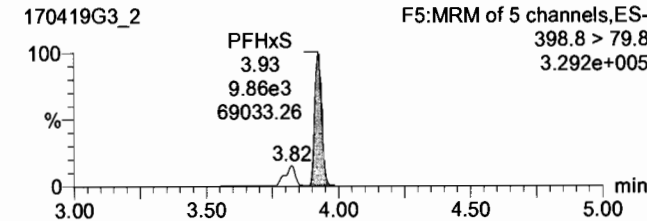
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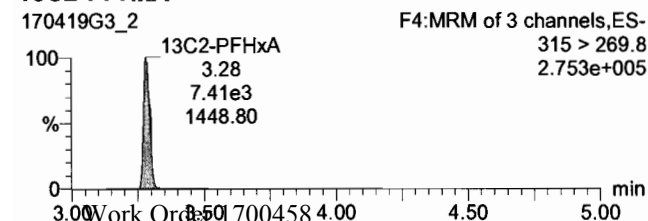
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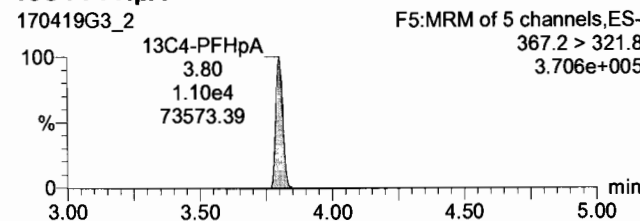
PFHxS



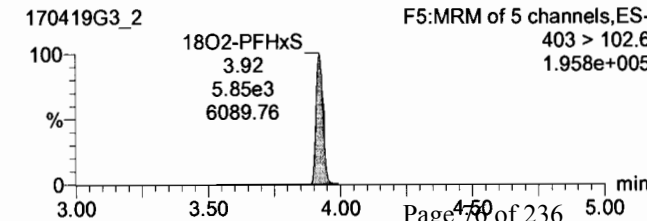
13C2-PFHxA



13C4-PFHpA

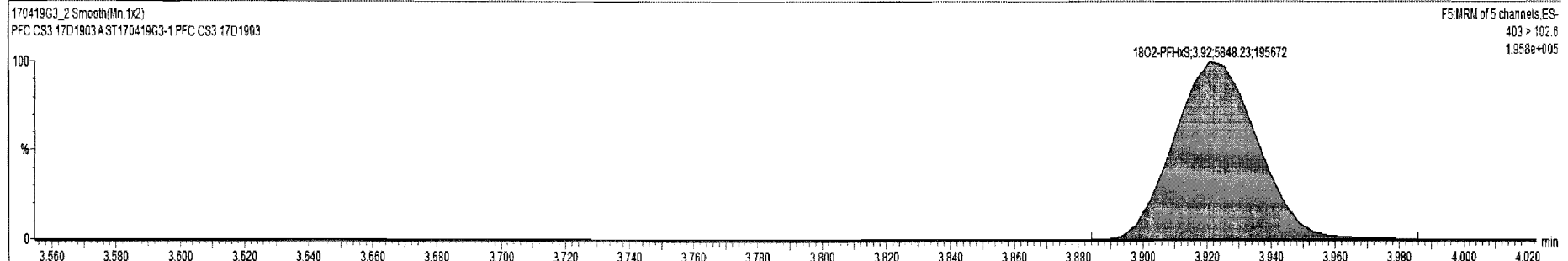
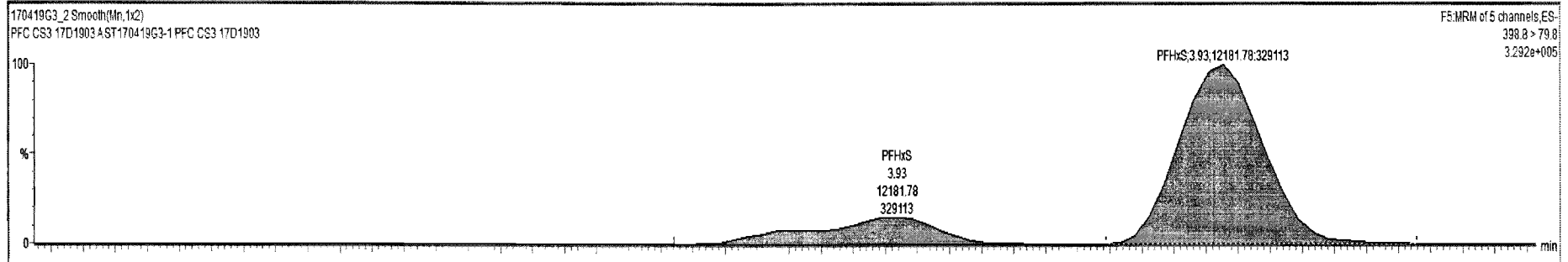


18O2-PFHxS



170419G3_2 - ST170419G3-1 PFC CS3 17D1903 - PFC CS3 17D1903 A

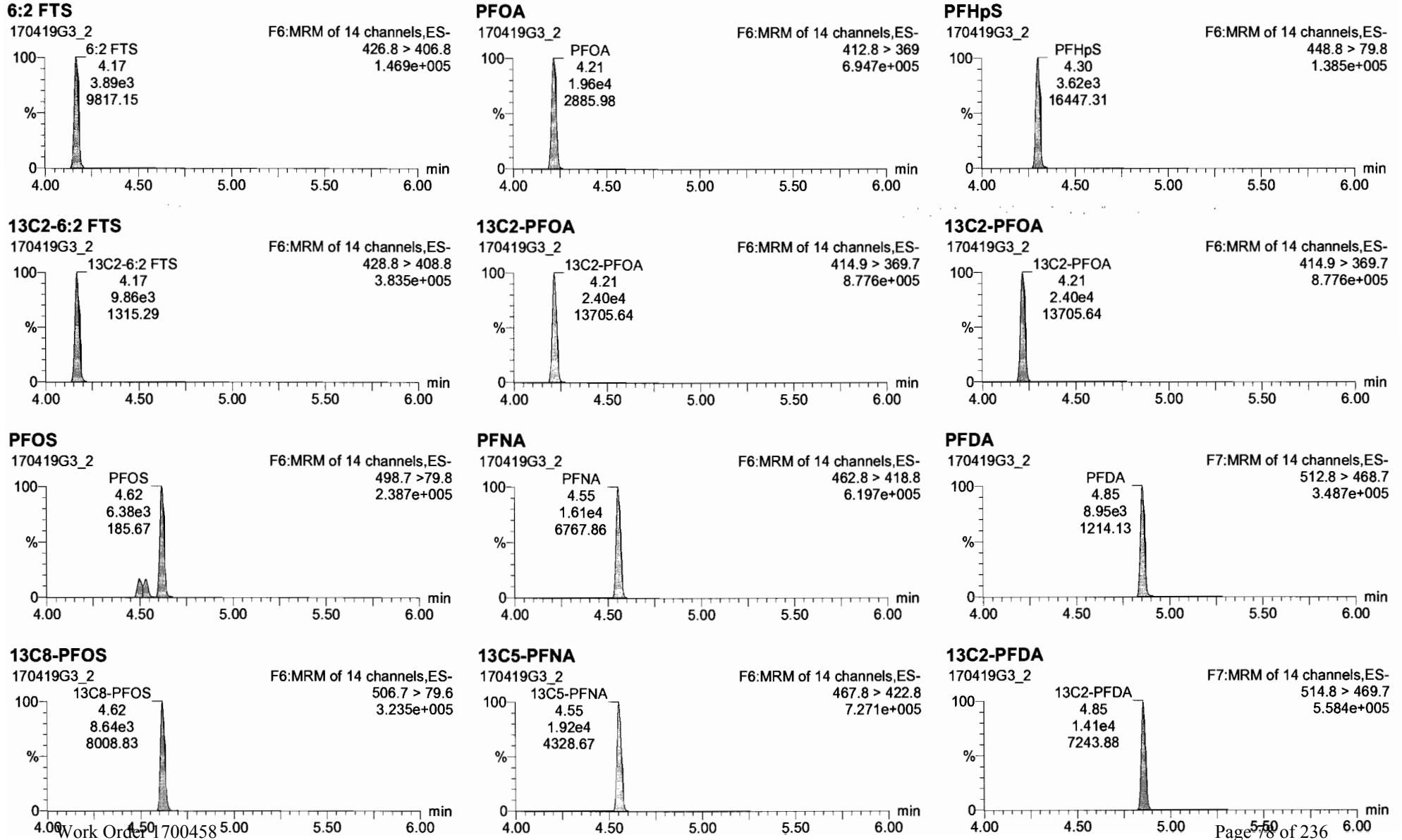
Name	Trace	Area	Response	RRF	WVOL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	212.9 > 168.9	1.43e4	9.547	0.955	1.000	1.72	12.4	124.2	0.0275201	0.9996
2	PFPeA	263.0 > 218.8	6.20e3	10.292	1.029	1.000	2.65	10.8	108.4	0.0272362	0.9981
3	PFBS	298.8 > 79.7	1.33e4	9.538	0.954	1.000	2.90	10.7	107.1	0.0175232	0.9994
4	PFFxA	312.9 > 269.1	2.13e4	14.385	1.438	1.000	3.28	11.8	118.0	0.0000000	0.9997
5	PFFpA	363 > 318.9	1.84e4	20.936	2.094	1.000	3.80	11.0	110.3	0.0090387	0.9996
6	PFFhS	398.8 > 79.8	1.22e4	26.037	2.604	1.000	3.93	10.9	108.6	0.0000000	0.9997
7	8.2 FTS	426.8 > 406.8	3.89e3	2.024	0.202	1.000	4.17	12.6	126.5	0.1024032	0.9997
8	PFOA	412.8 > 369	1.96e4	10.191	1.019	1.000	4.21	10.9	109.5	0.0000000	0.9997
9	PFFpS	448.8 > 78.8	3.62e3	1.884	0.188	1.000	4.30	11.7	117.3	0.1602112	0.9993
10	PFOS	498.8 > 79.8	8.56e3	12.383	1.238	1.000	4.62	10.9	108.6	0.1624849	0.9975
11	PFNA	462.8 > 418.8	1.61e4	10.476	1.048	1.000	4.55	12.0	120.2	0.0016334	0.9996
12	PFDA	512.8 > 468.7	8.95e3	7.919	0.792	1.000	4.85	10.1	101.5	0.0000000	0.9995
13	8.2 FTS	526.8 > 506.9	2.72e3	14.066	1.407	1.000	4.83	11.1	110.6	0.1252065	0.9980
14	13C3-PFBA	215.9 > 171.8	1.87e4	12.515	1.001	1.000	1.72	10.7	85.7	0.0102163	1.64
15	13C3-PFPeA	266 > 221.8	7.54e3	4.215	0.337	1.000	2.65	11.1	88.9	0.0115708	2.23
16	13C3-PFBS	301.8 > 79.7	1.75e4	9.766	0.781	1.000	2.90	13.4	107.4	0.0036484	1.85
17	13C2-PFFxA	315 > 269.8	7.41e3	4.147	0.829	1.000	3.28	4.82	96.4	0.0080279	2.40
18	13C4-PFFpA	367.2 > 321.8	1.10e4	9.852	0.788	1.000	3.80	10.3	82.0	0.0003506	6.62
19	1802-PFFhS	403 > 102.6	5.85e3	5.231	0.419	1.000	3.92	11.8	94.8	0.0048712	2.16
20	13C2-8.2 FTS	428.8 > 408.8	9.86e3	12.755	1.020	1.000	4.17	11.0	87.8	0.0223138	21.9
21	13C2-PFOA	414.9 > 369.7	2.40e4	31.039	2.483	1.000	4.21	9.60	76.8	0.0017592	4.30
22	13C8-PFOS	506.7 > 79.6	8.64e3	13.639	1.091	1.000	4.62	10.7	85.4	0.0032637	8.47
23	13C5-PFNA	467.8 > 422.8	1.92e4	12.502	1.000	1.000	4.55	12.4	99.1	0.0069445	4.77
24	13C2-PFDA	514.8 > 469.7	1.41e4	27.677	2.214	1.000	4.85	12.3	98.5	0.0042717	5.17
25	13C2-8.2 FTS	529.1 > 508.7	2.42e3	4.738	0.379	1.000	4.83	14.1	113.0	0.0037818	14.4



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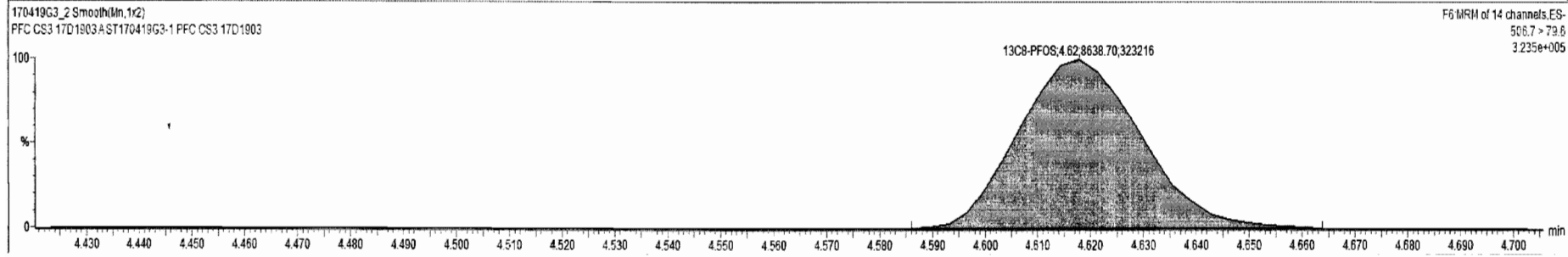
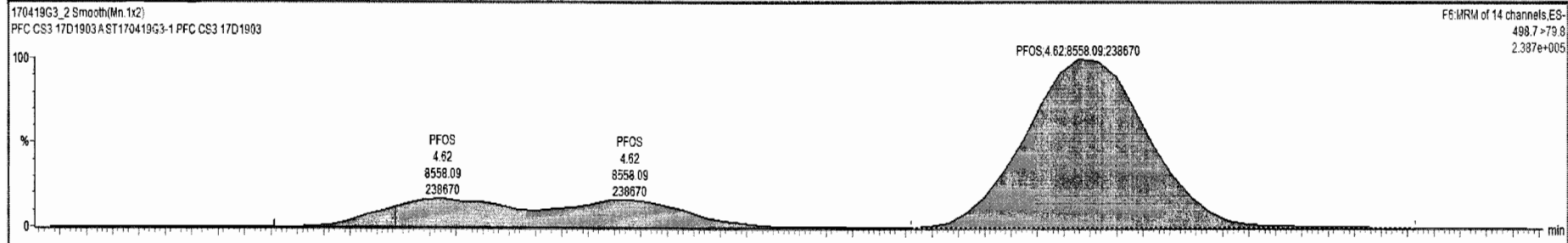
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Printed: Thursday, April 20, 2017 08:54:43 Pacific Daylight Time

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170419G3_2 - ST170419G3-1 PFC CS3 17D1903 - PFC CS3 17D1903 A

#	Name	Trace	Area	Response	RRF	WV/Vol	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D.
1	PFBA	212.9 > 168.9	1.43e4	9.547	0.955	1.000	1.72	12.4	124.2	0.0275201		0.9996
2	PFPeA	263.0 > 218.8	6.20e3	10.292	1.029	1.000	2.65	10.8	108.4	0.0272362		0.9981
3	PFBS	298.8 > 79.7	1.33e4	9.538	0.954	1.000	2.90	10.7	107.1	0.0175232		0.9994
4	PFHxA	312.9 > 269.1	2.13e4	14.385	1.438	1.000	3.28	11.8	118.0	0.0000000		0.9997
5	PFHpA	363 > 318.9	1.84e4	20.936	2.094	1.000	3.80	11.0	110.3	0.0090387		0.9986
6	PFHxS	398.8 > 79.8	1.22e4	26.037	2.604	1.000	3.93	10.9	108.6	0.0000000		0.9997
7	8:2 FTS	426.8 > 406.8	3.89e3	2.024	0.202	1.000	4.17	12.6	126.5	0.1024032		0.9997
8	PFOA	412.8 > 369	1.96e4	10.191	1.019	1.000	4.21	10.9	109.5	0.0000000		0.9997
9	PFHpS	448.8 > 79.8	3.62e3	1.884	0.188	1.000	4.30	11.7	117.3	0.1602112		0.9993
10	PFOS	498.7 > 79.8	8.56e3	12.383	1.238	1.000	4.62	10.9	108.6	0.1624849		0.9975
11	PFNA	462.8 > 418.8	1.61e4	10.476	1.048	1.000	4.55	12.0	120.2	0.0016334		0.9996
12	PFDA	512.8 > 468.7	8.95e3	7.919	0.792	1.000	4.85	10.1	101.5	0.0000000		0.9995
13	8:2 FTS	526.8 > 506.9	2.72e3	14.066	1.407	1.000	4.83	11.1	110.6	0.1252065		0.9980
14	13C3-PFBA	215.9 > 171.8	1.87e4	12.515	1.001	1.000	1.72	10.7	85.7	0.0102163	1.64	
15	13C3-PFPeA	266 > 221.8	7.54e3	4.215	0.337	1.000	2.65	11.1	88.9	0.0115708	2.23	
16	13C3-PFBS	301.8 > 79.7	1.75e4	9.786	0.781	1.000	2.90	13.4	107.4	0.0036464	1.85	
17	13C3-PFHxA	315 > 269.8	7.41e3	4.147	0.829	1.000	3.28	4.82	96.4	0.0080279	2.40	
18	13C4-PFHxA	367.2 > 321.8	1.10e4	9.852	0.788	1.000	3.80	10.3	82.0	0.0003506	6.62	
19	18O2-PFHxS	403 > 132.6	5.85e3	5.231	0.419	1.000	3.92	11.8	94.8	0.0048712	2.16	
20	13C2-8:2 FTS	426.8 > 406.8	9.86e3	12.755	1.020	1.000	4.17	11.0	87.8	0.0223138	21.9	
21	13C2-PFOA	414.9 > 369.7	2.40e4	31.039	2.483	1.000	4.21	9.60	76.8	0.0017592	4.30	
22	13C8-PFOS	506.7 > 79.6	8.84e3	13.639	1.091	1.000	4.62	10.7	85.4	0.0032637	8.47	
23	13C5-PFNA	467.8 > 422.8	1.92e4	12.502	1.000	1.000	4.55	12.4	99.1	0.0069445	4.77	
24	13C2-PFDA	514.8 > 468.7	1.41e4	27.677	2.214	1.000	4.85	12.3	98.5	0.0042717	5.17	
25	13C2-8:2 FTS	529.1 > 508.7	2.42e3	4.738	0.379	1.000	4.83	14.1	113.0	0.0037818	14.4	



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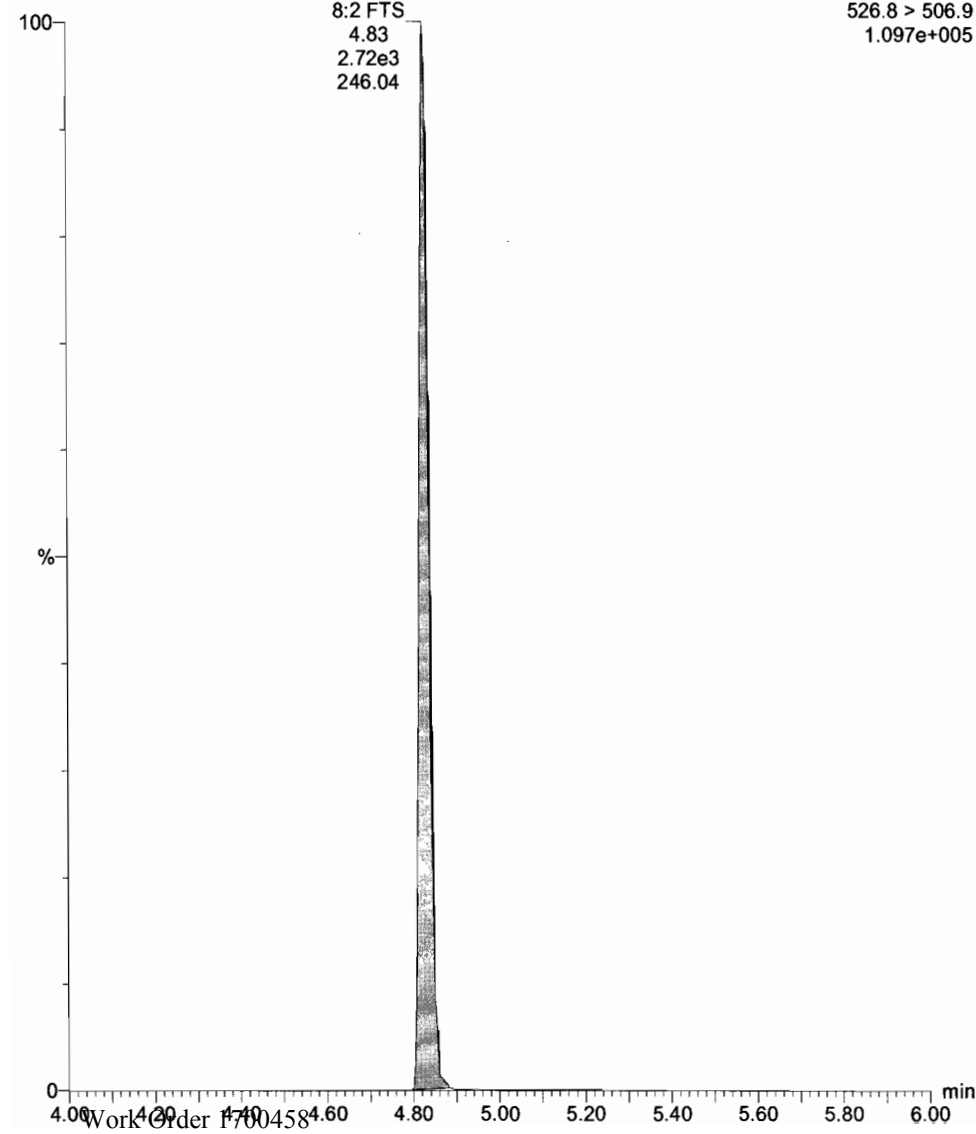
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Printed: Thursday, April 20, 2017 08:54:43 Pacific Daylight Time

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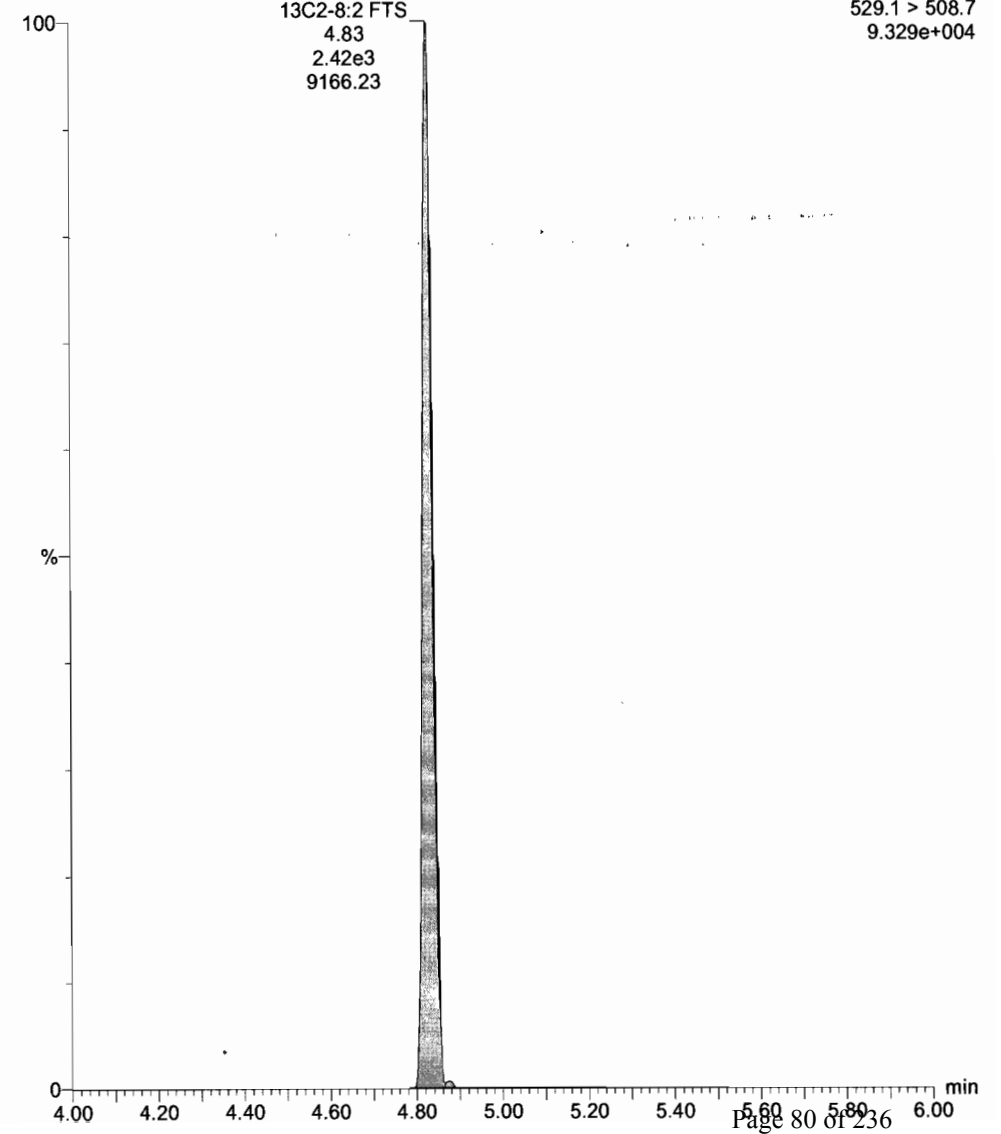
8:2 FTS

170419G3_2



13C2-8:2 FTS

170419G3_2



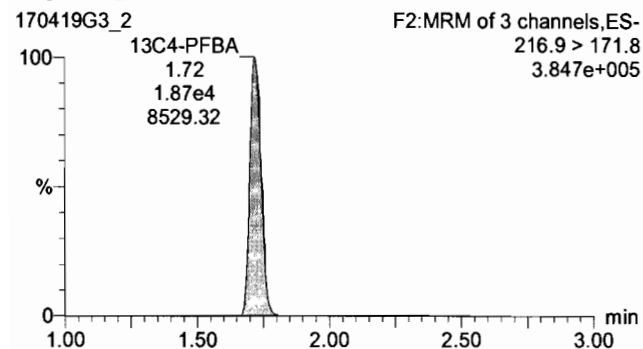
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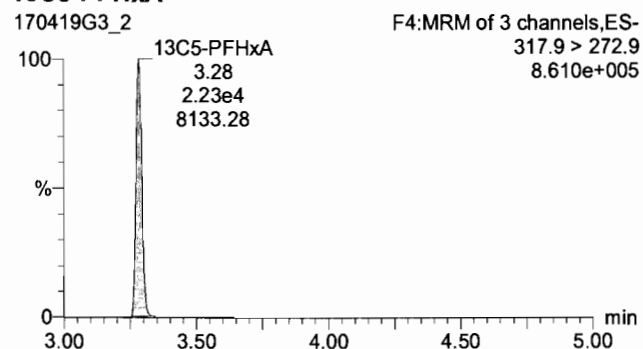
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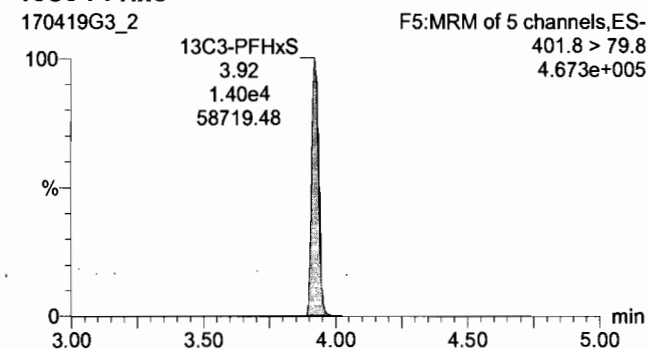
13C4-PFBA



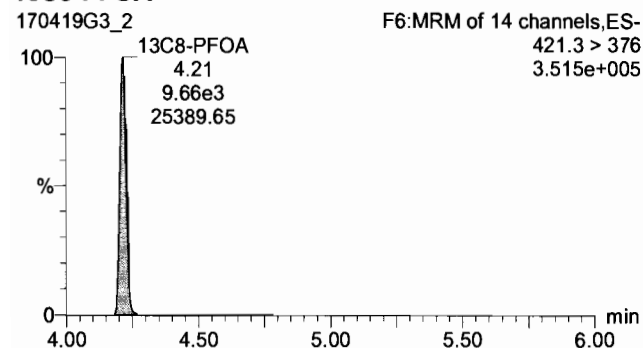
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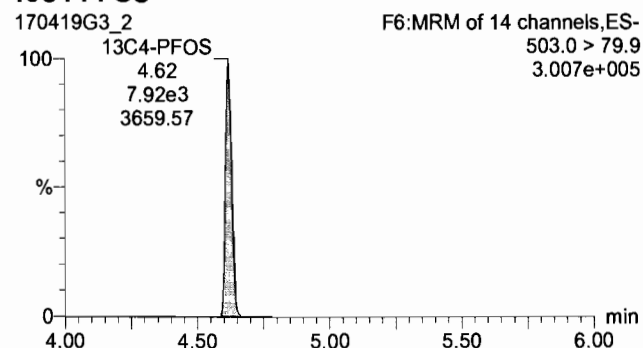
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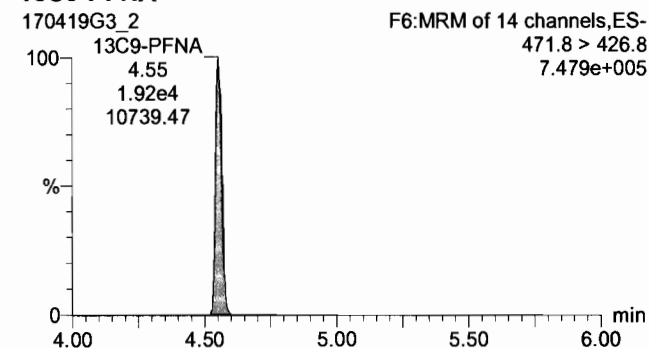
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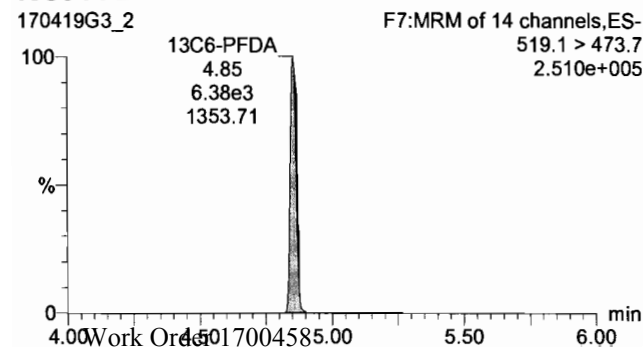
13C4-PFOS



13C9-PFNA



13C6-PFDA



Dataset: Untitled

Last Altered: Thursday, April 20, 2017 08:55:47 Pacific Daylight Time

Printed: Thursday, April 20, 2017 08:57:18 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Name: 170419G3_24, Date: 19-Apr-2017, Time: 20:12:40, ID: ST170419G3-2 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBA	212.9 > 168.9	1.65e4	2.43e4	1.000	1.000	1.69	11.0	110.2
2	2 PFPeA	263.0 > 218.8	7.53e3	9.55e3	1.000	1.000	2.63	10.4	103.8
3	3 PFBS	298.8 > 79.7	1.59e4	2.03e4	1.000	1.000	2.89	11.0	110.0
4	4 PFHxA	312.9 > 269.1	2.49e4	9.33e3	1.000	1.000	3.27	10.9	109.4
5	5 PFHpA	363 > 318.9	2.28e4	1.38e4	1.000	1.000	3.79	10.8	108.5
6	6 PFHxS	398.8 > 79.8	1.49e4	7.37e3	1.000	1.000	3.91	10.5	105.4
7	7 6:2 FTS	426.8 > 406.8	5.48e3	3.15e4	1.000	1.000	4.15	13.5	135.4
8	8 PFOA	412.8 > 369	2.58e4	3.15e4	1.000	1.000	4.20	11.0	109.9
9	9 PFHpS	448.8 > 79.8	5.06e3	3.15e4	1.000	1.000	4.29	12.5	124.7
10	10 PFOS	498.7 > 79.8	1.19e4	1.21e4	1.000	1.000	4.61	10.8	107.9
11	11 PFNA	462.8 > 418.8	2.19e4	2.59e4	1.000	1.000	4.54	12.1	121.3
12	12 PFDA	512.8 > 468.7	1.53e4	2.25e4	1.000	1.000	4.84	10.9	109.1
13	13 8:2 FTS	526.8 > 506.9	3.68e3	3.48e3	1.000	1.000	4.82	10.4	103.8
14	14 13C3-PFBA	215.9 > 171.8	2.43e4	2.17e4	1.168	1.000	1.69	12.0	95.8
15	15 13C3-PFPeA	266 > 221.8	9.55e3	2.78e4	0.379	1.000	2.63	11.3	90.5
16	16 13C3-PFBS	301.8 > 79.7	2.03e4	2.78e4	0.728	1.000	2.89	12.6	100.6
17	17 13C2-PFHxA	315 > 269.8	9.33e3	2.78e4	0.860	1.000	3.27	4.88	97.6
18	18 13C4-PFHpA	367.2 > 321.8	1.38e4	1.68e4	0.961	1.000	3.78	10.7	85.7
19	19 18O2-PFHxS	403 > 102.6	7.37e3	1.68e4	0.442	1.000	3.91	12.4	99.3
20	20 13C2-6:2 FTS	428.8 > 408.8	1.38e4	1.08e4	1.162	1.000	4.15	13.7	109.9
21	21 13C2-PFOA	414.9 > 369.7	3.15e4	1.08e4	3.233	1.000	4.20	11.2	90.0
22	22 13C8-PFOS	506.7 > 79.6	1.21e4	1.04e4	1.277	1.000	4.61	11.4	91.0
23	23 13C5-PFNA	467.8 > 422.8	2.59e4	2.63e4	1.010	1.000	4.54	12.2	97.5
24	24 13C2-PFDA	514.8 > 469.7	2.25e4	9.16e3	2.247	1.000	4.84	13.7	109.3
25	25 13C2-8:2 FTS	529.1 > 508.7	3.48e3	9.16e3	0.335	1.000	4.82	14.1	113.2
26	26 13C4-PFBA	216.9 > 171.8	2.17e4	2.17e4	1.000	1.000	1.69	12.5	100.0
27	27 13C5-PFHxA	317.9 > 272.9	2.78e4	2.78e4	1.000	1.000	3.26	12.5	100.0
28	28 13C3-PFHxS	401.8 > 79.8	1.68e4	1.68e4	1.000	1.000	3.91	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.08e4	1.08e4	1.000	1.000	4.20	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	1.04e4	1.04e4	1.000	1.000	4.61	12.5	100.0
31	31 Work Order 0048	471.8 > 426.8	2.63e4	2.63e4	1.000	1.000	4.54	12.5	100.0

75-125
*
75-125

* point excluded.
em
4/20/17

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 08:55:47 Pacific Daylight Time

Printed: Thursday, April 20, 2017 08:57:18 Pacific Daylight Time

Name: 170419G3_24, Date: 19-Apr-2017, Time: 20:12:40, ID: ST170419G3-2 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
32	32 13C6-PFDA	519.1 > 473.7	9.16e3	9.16e3	1.000	1.000	4.84	12.5	100.0

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 09:00:22 Pacific Daylight Time

Printed: Thursday, April 20, 2017 09:00:36 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170419G3_1	IPA	19-Apr-17	15:21:13
2	170419G3_2	ST170419G3-1 PFC CS3 17D1903	19-Apr-17	15:33:50
3	170419G3_3	IPA	19-Apr-17	15:46:24
4	170419G3_4	B7D0075-BS1 OPR 0.125	19-Apr-17	15:59:32
5	170419G3_5	B7D0079-BS1 OPR 1	19-Apr-17	16:12:26
6	170419G3_6	B7D0088-BS1 OPR 0.125	19-Apr-17	16:25:02
7	170419G3_7	IPA	19-Apr-17	16:37:38
8	170419G3_8	B7D0075-BLK1 Method Blank 0.125	19-Apr-17	16:50:16
9	170419G3_9	B7D0079-BLK1 Method Blank 1	19-Apr-17	17:02:53
10	170419G3_10	B7D0088-BLK1 Method Blank 0.125	19-Apr-17	17:15:30
11	170419G3_11	1700437-01RE1 Raw (420-119202-1) 0.27206	19-Apr-17	17:28:08
12	170419G3_12	1700438-01RE1 MTBE_8159 0.27108	19-Apr-17	17:40:46
13	170419G3_13	1700438-02RE1 MTBE_8160 0.27664	19-Apr-17	17:53:21
14	170419G3_14	1700438-03RE1 MTBE_8161 0.28033	19-Apr-17	18:05:56
15	170419G3_15	1700446-02 NORP05017 1.09	19-Apr-17	18:18:41
16	170419G3_16	1700446-04 NORP05019 1.04	19-Apr-17	18:31:21
17	170419G3_17	1700446-05 NORP05020 1.15	19-Apr-17	18:43:58
18	170419G3_18	1700458-01 OF-MW34D-0417 0.125	19-Apr-17	18:56:35
19	170419G3_19	B7D0088-MS1 Matrix Spike 0.125	19-Apr-17	19:09:13
20	170419G3_20	B7D0088-MSD1 Matrix Spike Dup 0.125	19-Apr-17	19:21:52
21	170419G3_21	1700458-02 OF-MW32D-0417 0.125	19-Apr-17	19:34:26
22	170419G3_22	1700458-03 OF-MW32DP-0417 0.125	19-Apr-17	19:47:00
23	170419G3_23	IPA	19-Apr-17	19:59:55
24	170419G3_24	ST170419G3-2 PFC CS3 17D1903	19-Apr-17	20:12:40
25	170419G3_25	IPA	19-Apr-17	20:25:14
26	170419G3_26	1700458-04 OF-EB041417 0.125	19-Apr-17	20:38:00
27	170419G3_27	1700458-05 OF-FB041417 0.125	19-Apr-17	20:50:42
28	170419G3_28	1700459-01 IDW-AQ-01-0417 0.125	19-Apr-17	21:03:19
29	170419G3_29	1700463-01 MW-5A 0.125	19-Apr-17	21:15:55
30	170419G3_30	1700463-02 MW-4 0.125	19-Apr-17	21:28:33
31	170419G3_31	1700463-03 SG-2 0.125	19-Apr-17	21:41:11

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 09:00:22 Pacific Daylight Time

Printed: Thursday, April 20, 2017 09:00:36 Pacific Daylight Time

Compound name: PFBA

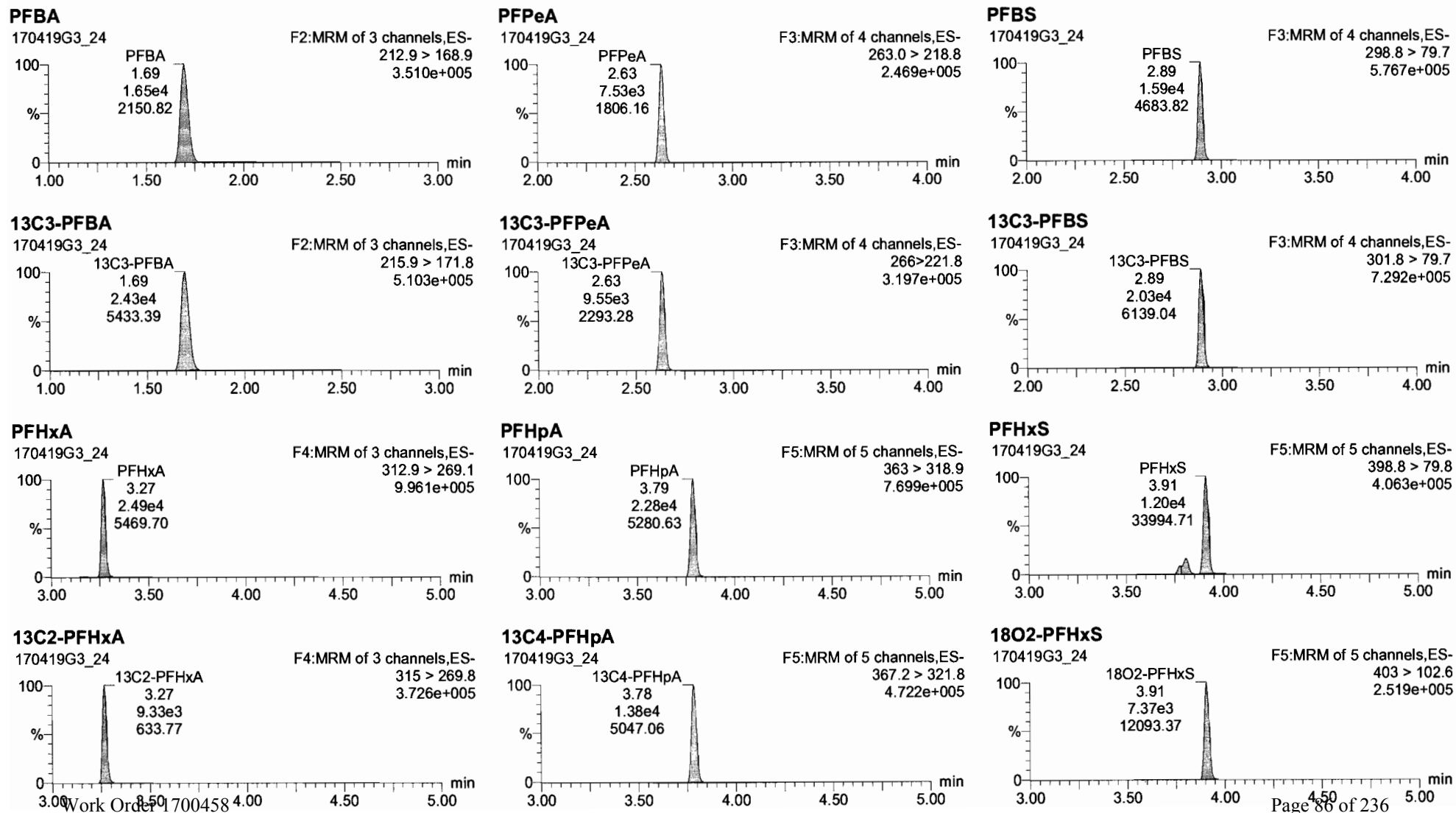
	Name	ID	Acq.Date	Acq.Time
32	170419G3_32	1700379-03@4000X 80022.03 1.1	19-Apr-17	21:53:45
33	170419G3_33	1700379-03@5000X 80022.03 1.1	19-Apr-17	22:06:20
34	170419G3_34	1700379-04@2000X 80022.03 1.107	19-Apr-17	22:19:24
35	170419G3_35	IPA	19-Apr-17	22:32:04
36	170419G3_36	ST170419G3-3 PFC CS3 17D1903	19-Apr-17	22:44:41
37	170419G3_37	IPA	19-Apr-17	22:57:15

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Last Altered: Thursday, April 20, 2017 08:54:57 Pacific Daylight Time
Printed: Thursday, April 20, 2017 08:55:01 Pacific Daylight Time

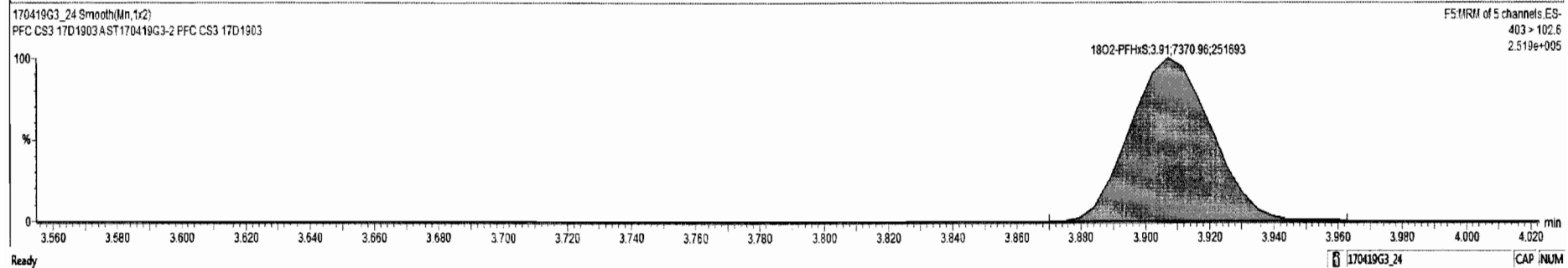
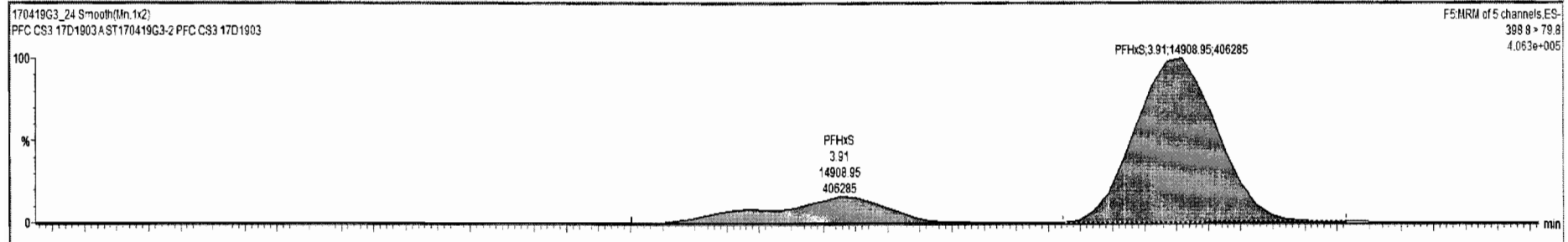
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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Name: 170419G3_24, Date: 19-Apr-2017, Time: 20:12:40, ID: ST170419G3-2 PFC CS3 17D1903, Description: PFC CS3 17D1903 A



170419G3_24 - ST170419G3-2 PFC CS3 17D1903 - PFC CS3 17D1903 A

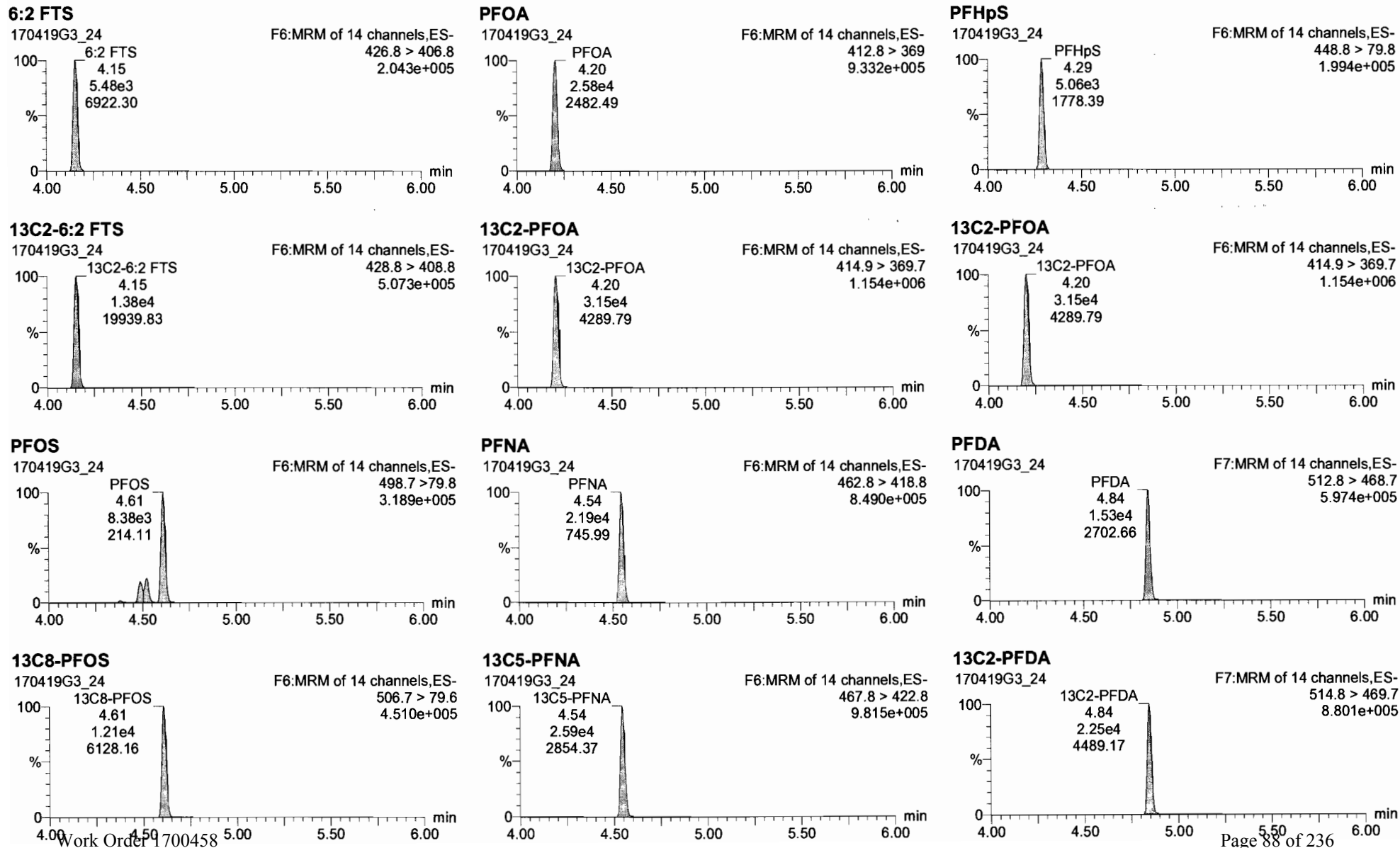
Name	Trace	Area	Response	RRF	WVAL	RT	Conc.	%Rec	DL	%RSD	Coeff. OF D.
1 PFBA	212.9 > 168.9	1.65e4	8.475	0.848	1.000	1.69	11.0	110.2	0.0266762		0.9996
2 PFPeA	263.0 > 218.8	7.53e3	9.852	0.985	1.000	2.63	10.4	103.8	0.0304845		0.9981
3 PFBS	298.8 > 79.7	1.59e4	9.797	0.980	1.000	2.89	11.0	110.0	0.0155579		0.9994
4 PFHxA	312.9 > 269.1	2.49e4	13.349	1.335	1.000	3.27	10.9	109.4	0.0000000		0.9997
5 PFHpA	363 > 318.9	2.28e4	20.584	2.058	1.000	3.79	10.8	108.5	0.0011275		0.9986
6 PFHxS	398.8 > 79.8	1.49e4	25.283	2.528	1.000	3.91	10.5	105.4	0.0000000		0.9997
7 6:2 FTS	426.8 > 406.8	5.48e3	2.170	0.217	1.000	4.15	13.5	135.4	0.1040905		0.9997
8 PFOA	412.8 > 369	2.58e4	10.227	1.023	1.000	4.20	11.0	109.9	0.0000000		0.9997
9 PFHpS	448.8 > 79.8	5.06e3	2.005	0.201	1.000	4.29	12.5	124.7	0.1770291		0.9993
10 PFOS	498.7 > 79.8	1.19e4	12.308	1.231	1.000	4.61	10.8	107.9	0.1442291		0.9975
11 PFNA	462.8 > 418.8	2.19e4	10.574	1.057	1.000	4.54	12.1	121.3	0.0386419		0.9996
12 PFDA	512.8 > 468.7	1.53e4	8.507	0.851	1.000	4.84	10.9	109.1	0.0000000		0.9995
13 8:2 FTS	526.8 > 506.9	3.68e3	13.242	1.324	1.000	4.82	10.4	103.8	0.0208775		0.9980
14 13C3-PFBA	215.9 > 171.8	2.43e4	13.994	1.120	1.000	1.69	12.0	95.8	0.0054786	1.64	
15 13C3-PFPeA	266 > 221.8	9.55e3	4.293	0.343	1.000	2.63	11.3	90.5	0.0105680	2.23	
16 13C3-PFBS	301.8 > 79.7	2.03e4	9.146	0.732	1.000	2.89	12.6	100.6	0.0046991	1.85	
17 13C2-PFHxA	315 > 269.8	9.33e3	4.195	0.839	1.000	3.27	4.88	97.6	0.0197103	2.40	
18 13C4-PFHpA	367.2 > 321.8	1.38e4	10.289	0.823	1.000	3.78	10.7	85.7	0.0053705	6.62	
19 18O2-PFHxS	403 > 102.6	7.37e3	5.481	0.439	1.000	3.91	12.4	99.3	0.0026052	2.16	
20 13C2-6:2 FTS	428.8 > 408.8	1.38e4	15.965	1.277	1.000	4.15	13.7	109.9	0.0016861	21.9	
21 13C2-PFOA	414.9 > 369.7	3.15e4	36.370	2.910	1.000	4.20	11.2	90.0	0.0063979	4.30	
22 13C8-PFOS	506.7 > 79.8	1.21e4	14.533	1.163	1.000	4.61	11.4	91.0	0.0046836	8.47	
23 13C5-PFNA	467.8 > 422.8	2.59e4	12.313	0.985	1.000	4.54	12.2	97.5	0.0104794	4.77	
24 13C2-PFDA	514.8 > 469.7	2.25e4	30.702	2.456	1.000	4.84	13.7	109.3	0.0073928	5.17	
25 13C2-8:2 FTS	529.1 > 508.7	3.48e3	4.748	0.380	1.000	4.82	14.1	113.2	0.0051626	14.4	



Dataset: Untitled

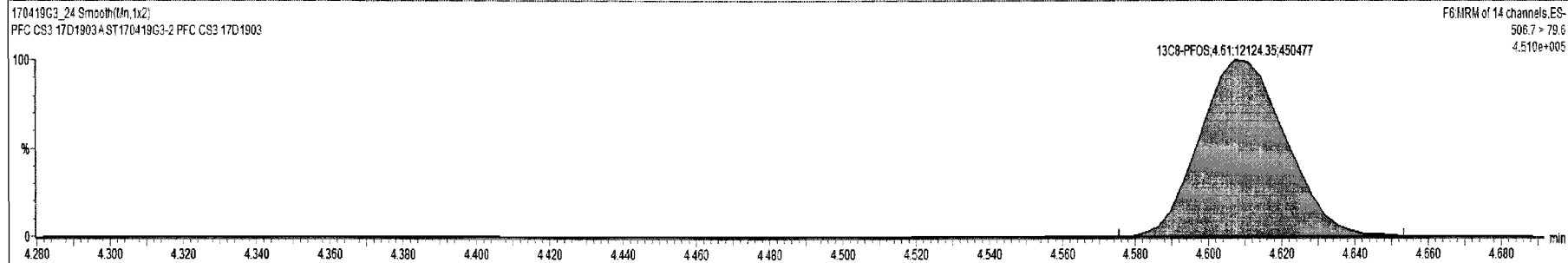
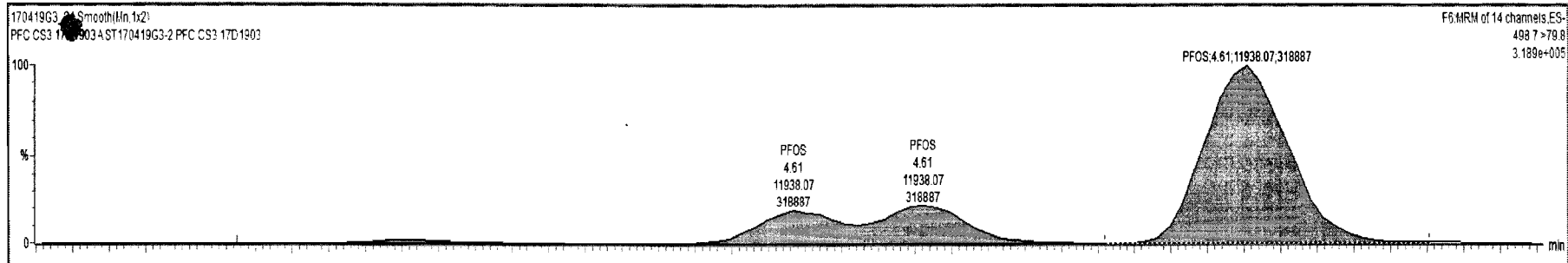
Last Altered: Thursday, April 20, 2017 08:54:57 Pacific Daylight Time
Printed: Thursday, April 20, 2017 08:55:01 Pacific Daylight Time

Name: 170419G3_24, Date: 19-Apr-2017, Time: 20:12:40, ID: ST170419G3-2 PFC CS3 17D1903, Description: PFC CS3 17D1903 A



170419G3_24 - ST170419G3-2 PFC CS3 17D1903 - PFC CS3 17D1903 A

Name	Trace	Area	Response	RRF	WVVL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D.
1	PFBA	212.9 > 168.9	1.65e4	8.475	0.846	1.000	1.69	11.0	110.2	0.0266762	0.9996
2	PFPeA	263.0 > 218.8	7.53e3	9.852	0.985	1.000	2.63	10.4	103.8	0.0304845	0.9981
3	PFBS	298.8 > 79.7	1.59e4	9.797	0.980	1.000	2.99	11.0	110.0	0.0155579	0.9994
4	PFHxA	312.9 > 259.1	2.49e4	13.349	1.335	1.000	3.27	10.9	109.4	0.0000000	0.9997
5	PFHpA	363 > 316.9	2.28e4	20.584	2.058	1.000	3.79	10.8	108.5	0.0011275	0.9996
6	PFHxS	398.8 > 79.8	1.49e4	25.283	2.528	1.000	3.91	10.5	105.4	0.0000000	0.9997
7	6:2 FTS	426.8 > 406.8	5.48e3	2.170	0.217	1.000	4.15	13.5	135.4	0.1040905	0.9997
8	PFOA	412.8 > 369	2.58e4	10.227	1.023	1.000	4.20	11.0	109.9	0.0000000	0.9997
9	PFHxS	448.8 > 79.8	5.06e3	2.005	0.201	1.000	4.29	12.5	124.7	0.1770291	0.9993
10	PFOS	498.7 > 79.8	1.19e4	12.306	1.231	1.000	4.61	10.8	107.9	0.1442291	0.9975
11	PFNA	462.8 > 418.8	2.19e4	10.574	1.057	1.000	4.54	12.1	121.3	0.0396419	0.9996
12	PFDA	512.8 > 488.7	1.53e4	8.507	0.851	1.000	4.84	10.9	109.1	0.0000000	0.9996
13	8:2 FTS	526.8 > 506.9	3.68e3	13.242	1.324	1.000	4.82	10.4	103.8	0.0208775	0.9980
14	13C3-PFBA	215.9 > 171.8	2.43e4	13.994	1.120	1.000	1.69	12.0	95.8	0.0054786	1.64
15	13C3-PFPeA	266 > 221.8	9.55e3	4.293	0.343	1.000	2.63	11.3	90.5	0.0105690	2.23
16	13C3-PFBS	301.8 > 79.7	2.03e4	9.146	0.732	1.000	2.89	12.6	100.6	0.0046991	1.85
17	13C2-PFHxA	315 > 269.8	9.33e3	4.195	0.839	1.000	3.27	4.88	97.6	0.0197103	2.40
18	13C4-PFHpA	367.2 > 321.8	1.38e4	10.289	0.823	1.000	3.78	10.7	85.7	0.0053705	6.62
19	18O2-PFHxS	403 > 102.6	7.37e3	5.481	0.439	1.000	3.91	12.4	99.3	0.0026052	2.16
20	13C2-6:2 FTS	428.8 > 408.8	1.38e4	15.965	1.277	1.000	4.15	13.7	109.9	0.0016881	21.9
21	13C2-PFOA	414.9 > 369.7	3.15e4	36.370	2.910	1.000	4.20	11.2	90.0	0.0063979	4.30
22	13C8-PFOS	506.7 > 79.6	1.21e4	14.533	1.163	1.000	4.61	11.4	91.0	0.0046536	8.47
23	13C5-PFNA	467.8 > 422.8	2.59e4	12.313	0.985	1.000	4.54	12.2	97.5	0.0104794	4.77
24	13C2-PFDA	514.8 > 489.7	2.25e4	30.702	2.456	1.000	4.84	13.7	109.3	0.0073928	5.17
25	13C2-8:2 FTS	529.1 > 508.7	3.48e3	4.746	0.380	1.000	4.82	14.1	113.2	0.0051626	14.4



Dataset: Untitled

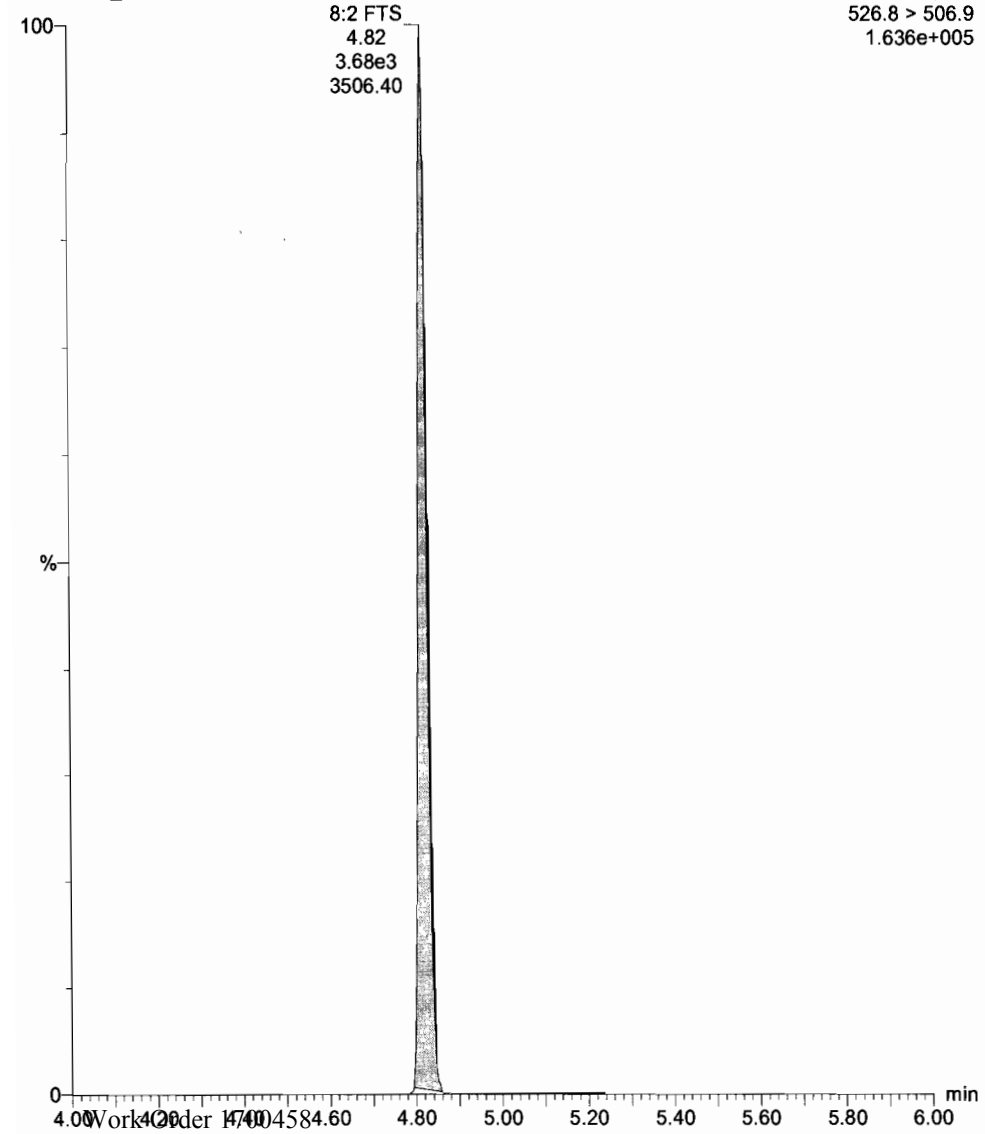
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Printed: Thursday, April 20, 2017 08:55:01 Pacific Daylight Time

Name: 170419G3_24, Date: 19-Apr-2017, Time: 20:12:40, ID: ST170419G3-2 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

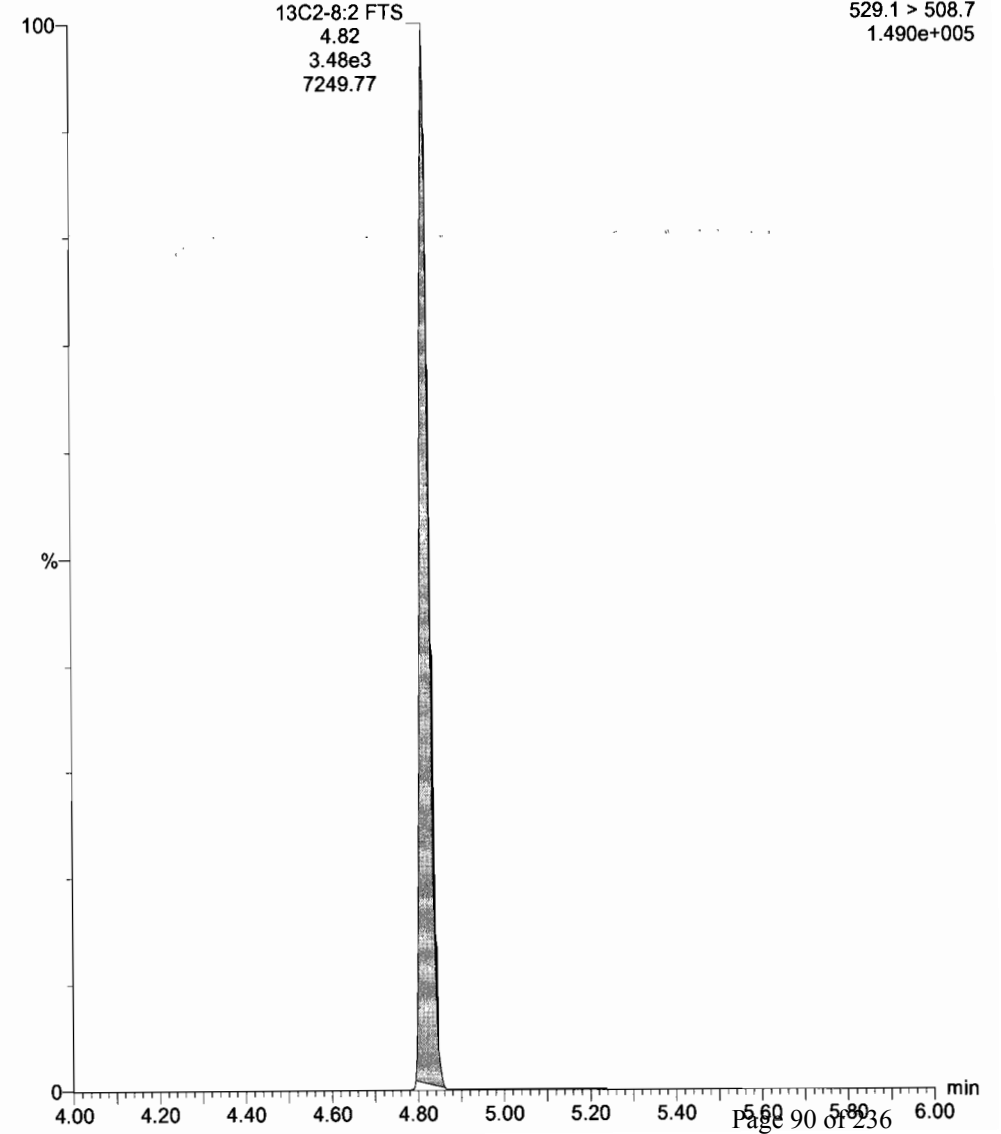
8:2 FTS

170419G3_24



13C2-8:2 FTS

170419G3_24



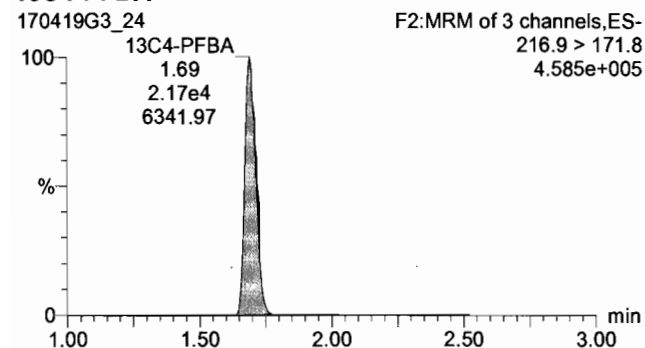
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Last Altered: Thursday, April 20, 2017 08:54:57 Pacific Daylight Time

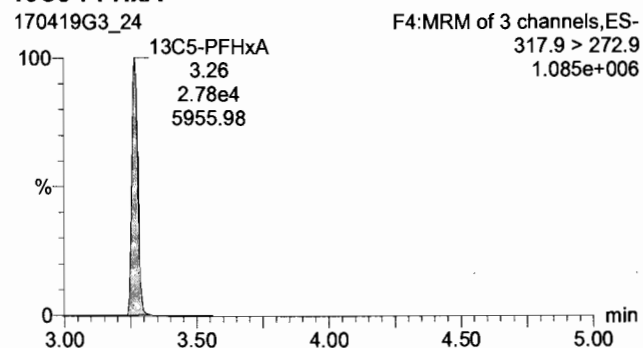
Printed: Thursday, April 20, 2017 08:55:01 Pacific Daylight Time

Name: 170419G3_24, Date: 19-Apr-2017, Time: 20:12:40, ID: ST170419G3-2 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

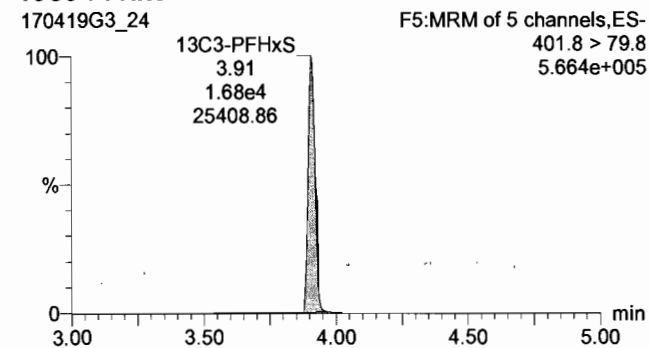
13C4-PFBA



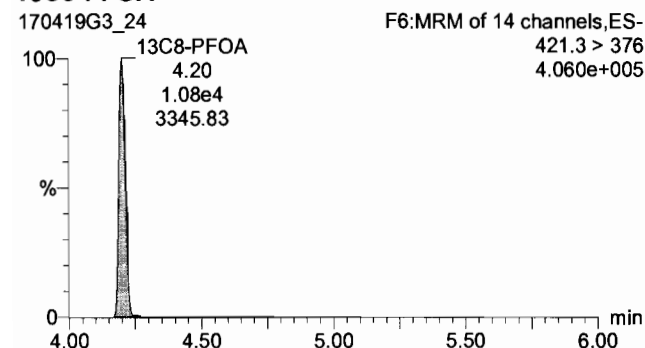
13C5-PFHxA



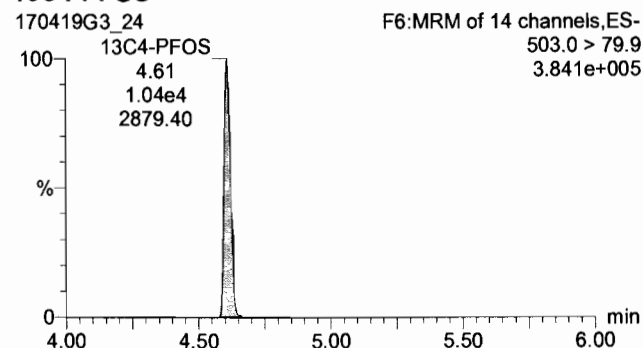
13C3-PFHxS



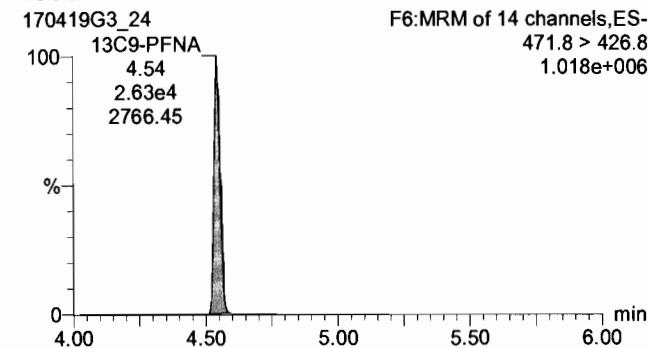
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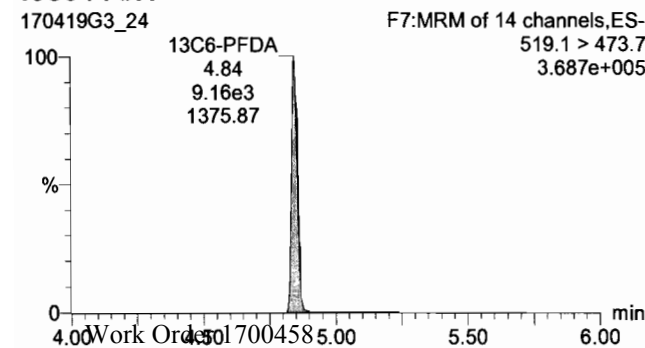
13C4-PFOS



13C9-PFNA



13C6-PFDA



Dataset: Untitled

Last Altered: Thursday, April 20, 2017 08:58:09 Pacific Daylight Time

Printed: Thursday, April 20, 2017 08:59:51 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.pro\CurveDB\IC18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Name: 170419G3_36, Date: 19-Apr-2017, Time: 22:44:41, ID: ST170419G3-3 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBA	212.9 > 168.9	1.65e4	2.54e4		1.000	1.70	10.6	105.8
2	2 PFPeA	263.0 > 218.8	7.69e3	9.47e3		1.000	2.64	10.7	106.9
3	3 PFBS	298.8 > 79.7	1.59e4	2.04e4		1.000	2.90	11.0	109.8
4	4 PFHxA	312.9 > 269.1	2.49e4	9.21e3		1.000	3.27	11.1	110.6
5	5 PFHpA	363 > 318.9	2.29e4	1.39e4		1.000	3.79	10.9	108.9
6	6 PFHxS	398.8 > 79.8	1.48e4	7.30e3		1.000	3.91	10.6	105.8
7	7 6:2 FTS	426.8 > 406.8	5.37e3	3.19e4		1.000	4.15	13.1	131.2
8	8 PFOA	412.8 > 369	2.52e4	3.19e4		1.000	4.21	10.6	106.1
9	9 PFHpS	448.8 > 79.8	4.94e3	3.19e4		1.000	4.29	12.0	120.3
10	10 PFOS	498.7 > 79.8	1.12e4	1.10e4		1.000	4.61	11.2	111.5
11	11 PFNA	462.8 > 418.8	2.18e4	2.52e4		1.000	4.55	12.4	123.8
12	12 PFDA	512.8 > 468.7	1.37e4	2.09e4		1.000	4.85	10.5	105.2
13	13 8:2 FTS	526.8 > 506.9	2.83e3	2.76e3		1.000	4.83	10.0	100.4
14	14 13C3-PFBA	215.9 > 171.8	2.54e4	2.22e4	1.168	1.000	1.70	12.2	97.7
15	15 13C3-PFPeA	266 > 221.8	9.47e3	2.78e4	0.379	1.000	2.64	11.2	89.6
16	16 13C3-PFBS	301.8 > 79.7	2.04e4	2.78e4	0.728	1.000	2.90	12.6	100.5
17	17 13C2-PFHxA	315 > 269.8	9.21e3	2.78e4	0.860	1.000	3.27	4.81	96.2
18	18 13C4-PFHpA	367.2 > 321.8	1.39e4	1.65e4	0.961	1.000	3.79	11.0	87.6
19	19 18O2-PFHxS	403 > 102.6	7.30e3	1.65e4	0.442	1.000	3.91	12.5	100.3
20	20 13C2-6:2 FTS	428.8 > 408.8	1.27e4	1.14e4	1.162	1.000	4.15	12.0	95.9
21	21 13C2-PFOA	414.9 > 369.7	3.19e4	1.14e4	3.233	1.000	4.21	10.9	86.9
22	22 13C8-PFOS	506.7 > 79.6	1.10e4	9.91e3	1.277	1.000	4.61	10.9	87.0
23	23 13C5-PFNA	467.8 > 422.8	2.52e4	2.62e4	1.010	1.000	4.55	11.9	95.3
24	24 13C2-PFDA	514.8 > 469.7	2.09e4	8.22e3	2.247	1.000	4.85	14.1	112.9
25	25 13C2-8:2 FTS	529.1 > 508.7	2.76e3	8.22e3	0.335	1.000	4.83	12.5	100.2
26	26 13C4-PFBA	216.9 > 171.8	2.22e4	2.22e4	1.000	1.000	1.70	12.5	100.0
27	27 13C5-PFHxA	317.9 > 272.9	2.78e4	2.78e4	1.000	1.000	3.27	12.5	100.0
28	28 13C3-PFHxS	401.8 > 79.8	1.65e4	1.65e4	1.000	1.000	3.91	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.14e4	1.14e4	1.000	1.000	4.21	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	9.91e3	9.91e3	1.000	1.000	4.61	12.5	100.0
31	31 13C9-PFNA	471.8 > 426.8	2.62e4	2.62e4	1.000	1.000	4.55	12.5	100.0

* point excluded.
 25-125
 75-125
 am
 4/20/17

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 08:58:09 Pacific Daylight Time

Printed: Thursday, April 20, 2017 08:59:51 Pacific Daylight Time

Name: 170419G3_36, Date: 19-Apr-2017, Time: 22:44:41, ID: ST170419G3-3 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
32	32 13C6-PFDA	519.1 > 473.7	8.22e3	8.22e3	1.000	1.000	4.85	12.5	100.0

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 09:00:22 Pacific Daylight Time

Printed: Thursday, April 20, 2017 09:00:36 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170419G3_1	IPA	19-Apr-17	15:21:13
2	170419G3_2	ST170419G3-1 PFC CS3 17D1903	19-Apr-17	15:33:50
3	170419G3_3	IPA	19-Apr-17	15:46:24
4	170419G3_4	B7D0075-BS1 OPR 0.125	19-Apr-17	15:59:32
5	170419G3_5	B7D0079-BS1 OPR 1	19-Apr-17	16:12:26
6	170419G3_6	B7D0088-BS1 OPR 0.125	19-Apr-17	16:25:02
7	170419G3_7	IPA	19-Apr-17	16:37:38
8	170419G3_8	B7D0075-BLK1 Method Blank 0.125	19-Apr-17	16:50:16
9	170419G3_9	B7D0079-BLK1 Method Blank 1	19-Apr-17	17:02:53
10	170419G3_10	B7D0088-BLK1 Method Blank 0.125	19-Apr-17	17:15:30
11	170419G3_11	1700437-01RE1 Raw (420-119202-1) 0.27206	19-Apr-17	17:28:08
12	170419G3_12	1700438-01RE1 MTBE_8159 0.27108	19-Apr-17	17:40:46
13	170419G3_13	1700438-02RE1 MTBE_8160 0.27664	19-Apr-17	17:53:21
14	170419G3_14	1700438-03RE1 MTBE_8161 0.28033	19-Apr-17	18:05:56
15	170419G3_15	1700446-02 NORP05017 1.09	19-Apr-17	18:18:41
16	170419G3_16	1700446-04 NORP05019 1.04	19-Apr-17	18:31:21
17	170419G3_17	1700446-05 NORP05020 1.15	19-Apr-17	18:43:58
18	170419G3_18	1700458-01 OF-MW34D-0417 0.125	19-Apr-17	18:56:35
19	170419G3_19	B7D0088-MS1 Matrix Spike 0.125	19-Apr-17	19:09:13
20	170419G3_20	B7D0088-MSD1 Matrix Spike Dup 0.125	19-Apr-17	19:21:52
21	170419G3_21	1700458-02 OF-MW32D-0417 0.125	19-Apr-17	19:34:26
22	170419G3_22	1700458-03 OF-MW32DP-0417 0.125	19-Apr-17	19:47:00
23	170419G3_23	IPA	19-Apr-17	19:59:55
24	170419G3_24	ST170419G3-2 PFC CS3 17D1903	19-Apr-17	20:12:40
25	170419G3_25	IPA	19-Apr-17	20:25:14
26	170419G3_26	1700458-04 OF-EB041417 0.125	19-Apr-17	20:38:00
27	170419G3_27	1700458-05 OF-FB041417 0.125	19-Apr-17	20:50:42
28	170419G3_28	1700459-01 IDW-AQ-01-0417 0.125	19-Apr-17	21:03:19
29	170419G3_29	1700463-01 MW-5A 0.125	19-Apr-17	21:15:55
30	170419G3_30	1700463-02 MW-4 0.125	19-Apr-17	21:28:33
31	170419G3_31	1700463-03 SG-2 0.125	19-Apr-17	21:41:11

Work Order 1700458

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 09:00:22 Pacific Daylight Time
Printed: Thursday, April 20, 2017 09:00:36 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170419G3_32	1700379-03@4000X 80022.03 1.1	19-Apr-17	21:53:45
33	170419G3_33	1700379-03@5000X 80022.03 1.1	19-Apr-17	22:06:20
34	170419G3_34	1700379-04@2000X 80022.03 1.107	19-Apr-17	22:19:24
35	170419G3_35	IPA	19-Apr-17	22:32:04
36	170419G3_36	ST170419G3-3 PFC CS3 17D1903	19-Apr-17	22:44:41
37	170419G3_37	IPA	19-Apr-17	22:57:15

Dataset: Untitled

Last Altered: Thursday, April 20, 2017 08:55:09 Pacific Daylight Time

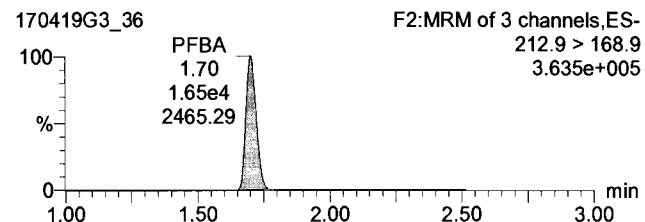
Printed: Thursday, April 20, 2017 08:55:13 Pacific Daylight Time

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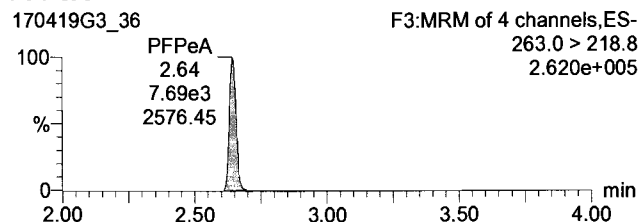
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Name: 170419G3_36, Date: 19-Apr-2017, Time: 22:44:41, ID: ST170419G3-3 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

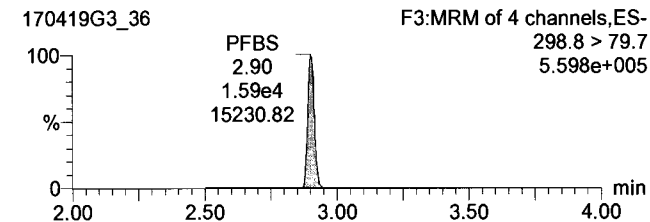
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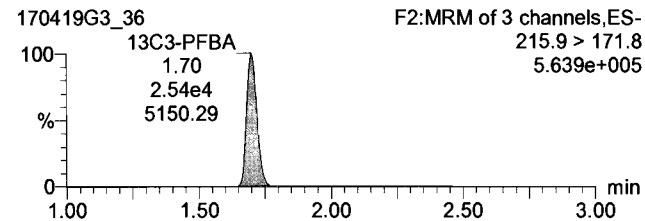
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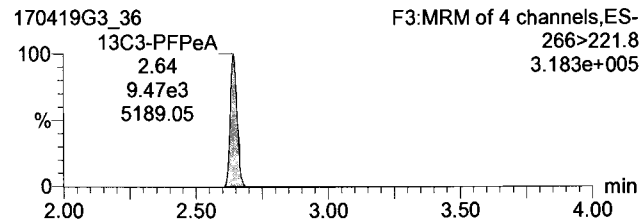
PFBS



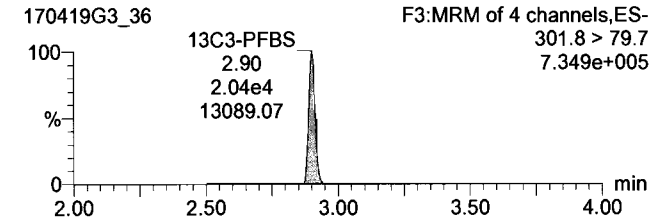
13C3-PFBA



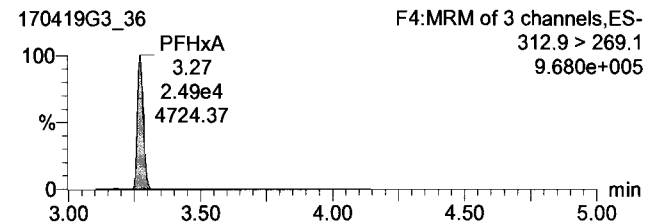
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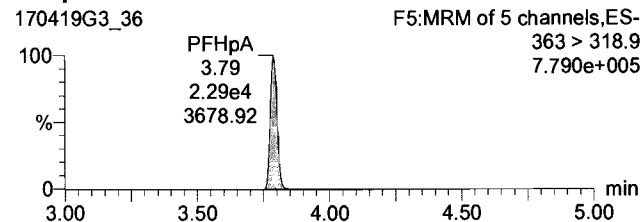
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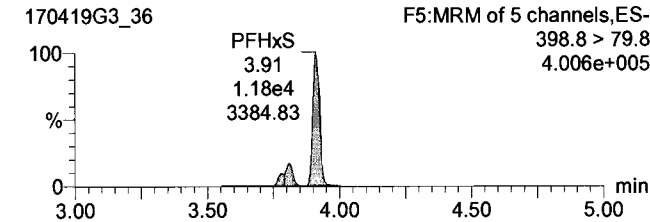
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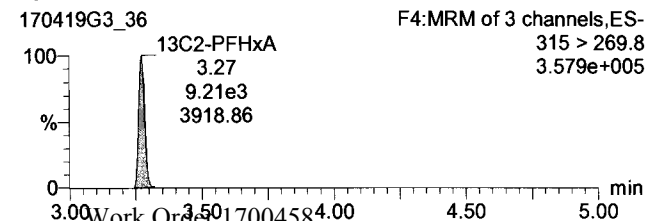
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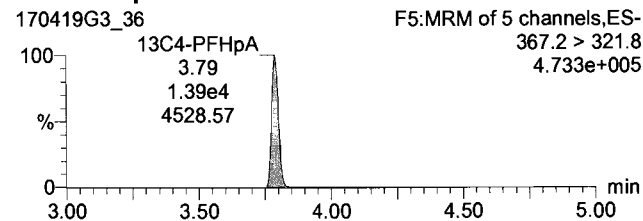
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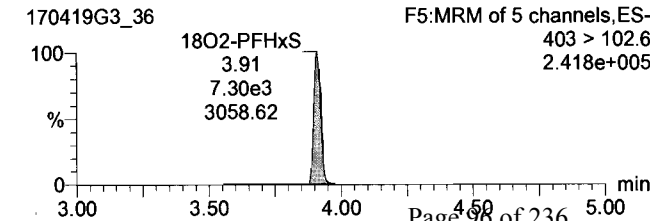
13C2-PFHxA



13C4-PFHpA

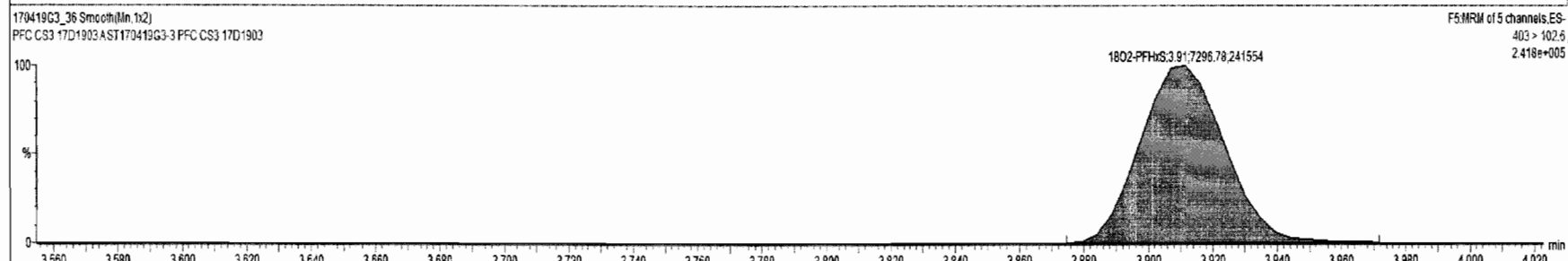
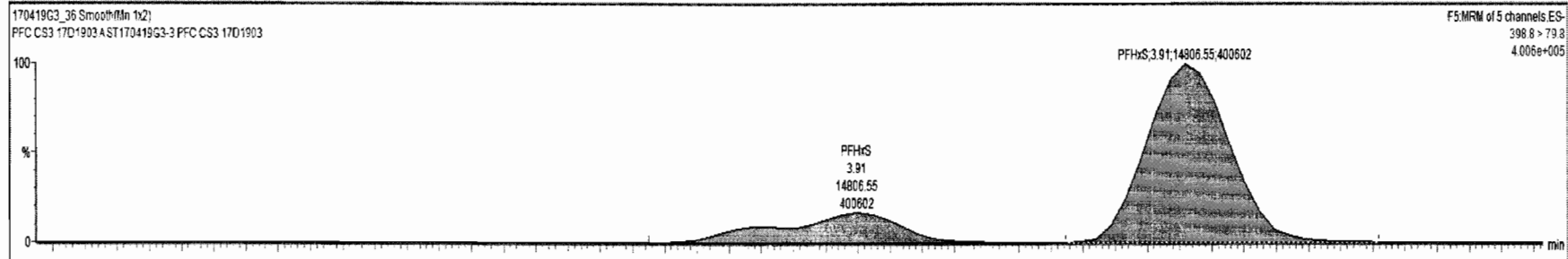


18O2-PFHxS



170419G3_36 - ST170419G3-3 PFC CS3 17D1903 - PFC CS3 17D1903 A

#	Name	Trace	Area	RRF	WVVol	Pred.RT	RT	Conc.	%OL	%Rec	DL
1	PFBA	212.9 > 168.9	1.65e4		1.000	1.70	1.70	10.6	YES	105.8	0.0243039
2	PFPeA	263.0 > 218.8	7.69e3		1.000	2.64	2.64	10.7	YES	106.9	0.0269067
3	PFBS	298.8 > 79.7	1.59e4		1.000	2.90	2.90	11.0	YES	109.8	0.0113868
4	PFHxA	312.9 > 269.1	2.49e4		1.000	3.27	3.27	11.1	YES	110.6	0.0000090
5	PFHpA	363 > 318.9	2.29e4		1.000	3.79	3.79	10.9	YES	108.9	0.0034080
6	PFHxS	398.8 > 79.8	1.48e4		1.000	3.91	3.91	18.6	YES	105.8	0.0200690
7	6.2 FTS	426.8 > 406.8	5.37e3		1.000	4.21	4.15	13.1	YES	131.2	0.1072098
8	PFOA	412.8 > 369	2.52e4		1.000	4.21	4.21	10.6	YES	106.1	0.0000000
9	PFHpS	448.8 > 79.8	4.94e3		1.000	4.21	4.29	12.0	YES	120.3	0.1627695
10	PFOS	498.7 > 79.8	1.12e4		1.000	4.62	4.61	11.2	YES	111.5	0.0610707
11	PFNA	462.8 > 418.8	2.18e4		1.000	4.55	4.55	12.4	YES	123.8	0.0015342
12	PFDA	512.8 > 468.7	1.37e4		1.000	4.85	4.85	10.5	NO	105.2	0.0000000
13	6.2 FTS	526.8 > 506.9	2.83e3		1.000	4.85	4.83	10.0	YES	100.4	0.0184258
14	13C3-PFBA	215.9 > 171.6	2.54e4	1.17	1.000	1.70	1.70	12.2	NO	97.7	0.0057941
15	13C3-PFPeA	266 > 221.8	9.47e3	0.379	1.000	2.64	2.64	11.2	NO	89.6	0.0046559
16	13C3-PFBS	301.8 > 79.7	2.04e4	0.728	1.000	2.92	2.90	12.6	NO	100.5	0.0022242
17	13C2-PFHxA	315 > 269.8	9.21e3	0.960	1.000	3.27	3.27	4.81	NO	96.2	0.0030591
18	13C4-PFHpA	367.2 > 321.8	1.39e4	0.961	1.000	3.79	3.79	11.0	NO	87.6	0.0061252
19	18O2-PFHxS	403 > 102.8	7.30e3	0.442	1.000	3.91	3.91	12.5	NO	100.3	0.0100872
20	13C2-6.2 FTS	426.8 > 406.8	1.27e4	1.16	1.000	4.33	4.15	12.0	NO	95.9	0.0295458
21	13C2-PFOA	414.9 > 369.7	3.19e4	3.23	1.000	4.21	4.21	10.9	NO	86.9	0.0094076
22	13C2-PFOS	506.7 > 79.5	1.10e4	1.28	1.000	4.61	4.61	10.9	NO	67.0	0.0034505
23	13C5-PFNA	467.8 > 422.8	2.52e4	1.01	1.000	4.55	4.55	11.9	NO	95.3	0.0045727
24	13C2-PFDA	514.6 > 469.7	2.09e4	2.25	1.000	4.85	4.85	14.1	NO	112.9	0.0066360
25	13C2-6.2 FTS	529.1 > 508.7	2.76e3	0.335	1.000	4.83	4.83	12.5	NO	100.2	0.0100200



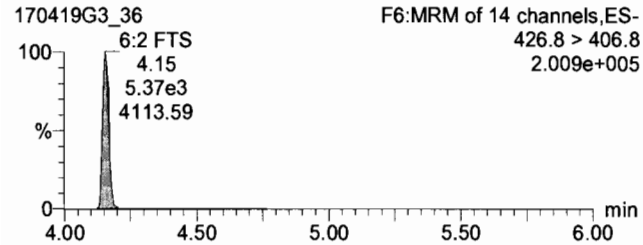
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Last Altered: Thursday, April 20, 2017 08:55:09 Pacific Daylight Time

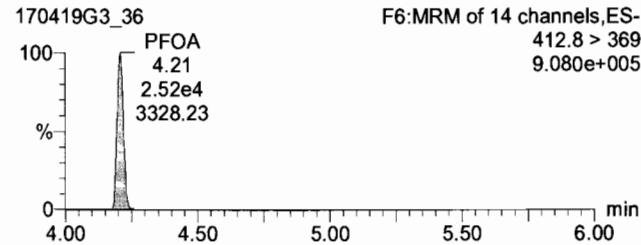
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Name: 170419G3_36, Date: 19-Apr-2017, Time: 22:44:41, ID: ST170419G3-3 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

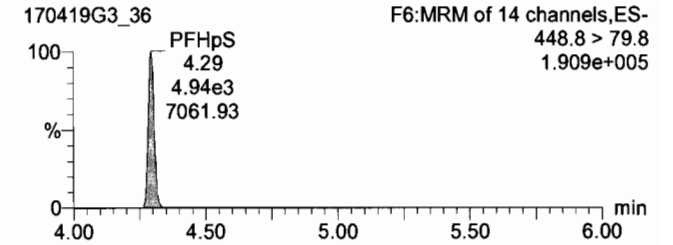
6:2 FTS



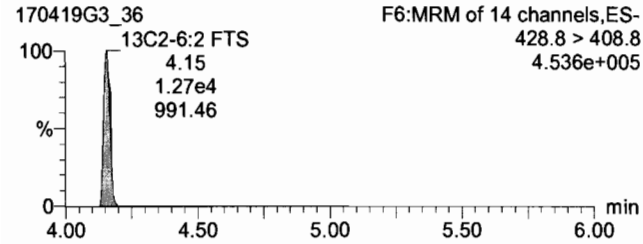
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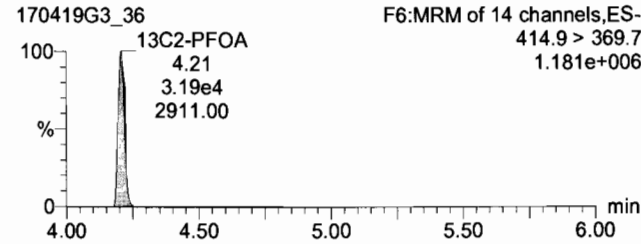
PFHpS



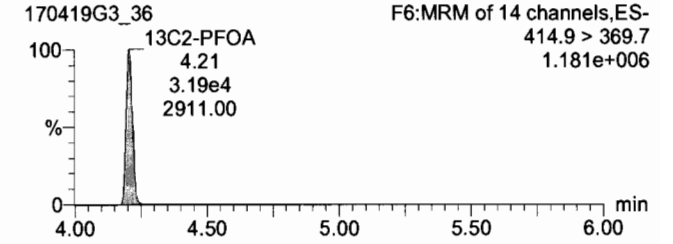
13C2-6:2 FTS



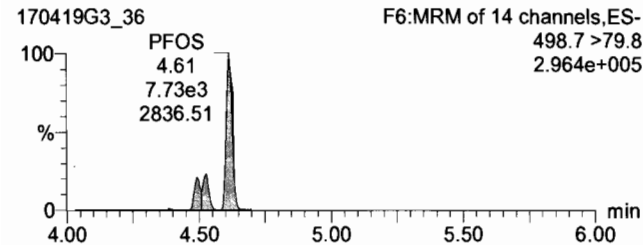
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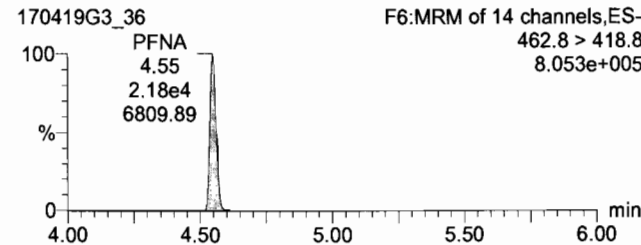
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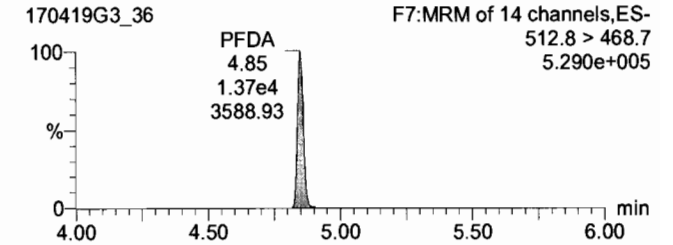
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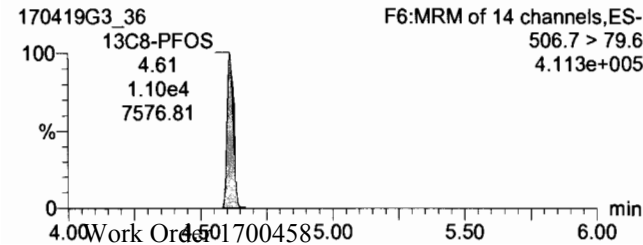
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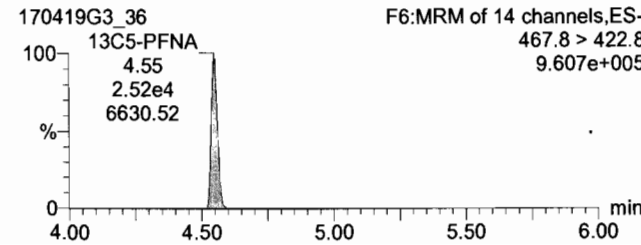
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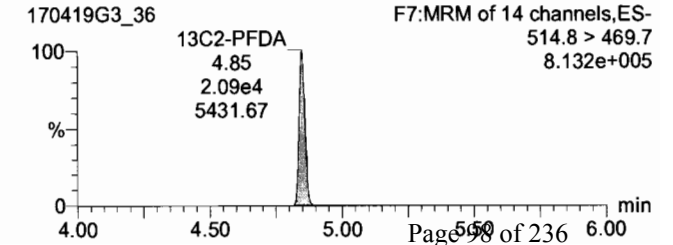
13C8-PFOS



13C5-PFNA

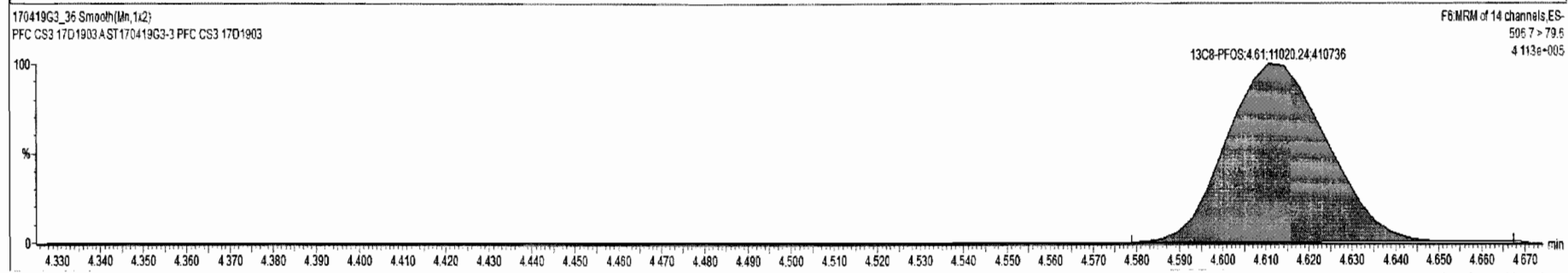
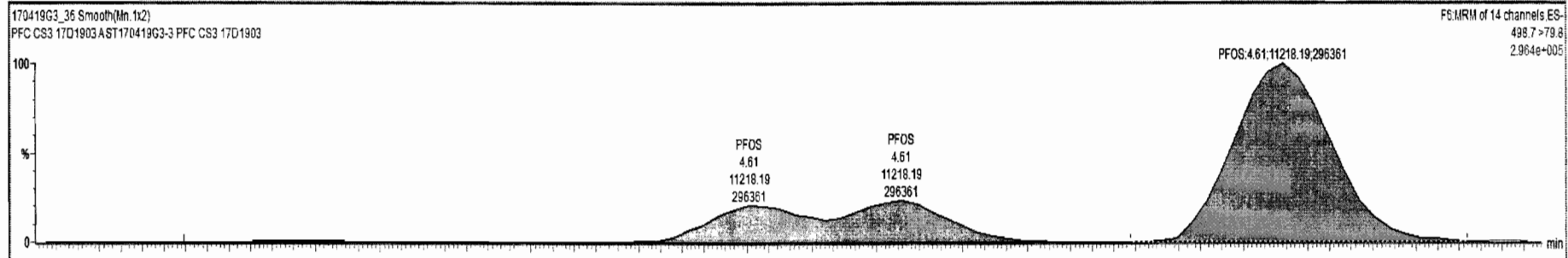


13C2-PFDA



170419G3_36 - ST170419G3-3 PFC CS3 17D1903 - PFC CS3 17D1903 A

Name	Trace	Area	RRF	WVVol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
1	PFBA	212.9 > 168.9	1.65e4		1.000	1.70	10.6	YES	105.8	0.0243039
2	PFPeA	263.0 > 218.8	7.69e3		1.000	2.64	10.7	YES	106.9	0.0269067
3	PFBS	298.8 > 79.7	1.59e4		1.000	2.90	11.0	YES	109.8	0.0113668
4	PFHxA	312.9 > 269.1	2.49e4		1.000	3.27	11.1	YES	110.6	0.0000000
5	PFHpA	363 > 318.9	2.29e4		1.000	3.79	10.9	YES	108.9	0.0034050
6	PFHxS	398.8 > 79.8	1.48e4		1.000	3.91	10.6	YES	105.8	0.0000000
7	8:2 FTS	426.8 > 406.8	5.37e3		1.000	4.21	13.1	YES	131.2	0.1072098
8	PFOA	412.8 > 369	2.52e4		1.000	4.21	10.6	YES	106.1	0.0000000
9	PFHpS	448.8 > 79.8	4.94e3		1.000	4.29	12.0	YES	120.3	0.1627635
10	PFOS	468.7 > 79.8	1.12e4		1.000	4.61	11.2	YES	111.5	0.0610707
11	PFNA	462.8 > 418.8	2.18e4		1.000	4.55	12.4	YES	123.8	0.0015342
12	PFDA	512.8 > 468.7	1.37e4		1.000	4.85	10.5	NO	105.2	0.0000000
13	8:2 FTS	526.8 > 506.9	2.83e3		1.000	4.85	10.0	YES	100.4	0.0184258
14	13C3-PFBA	215.9 > 171.8	2.54e4	1.17	1.000	1.70	12.2	NO	97.7	0.0057941
15	13C3-PFPeA	266 > 221.8	9.47e3	0.379	1.000	2.64	11.2	NO	89.6	0.0046559
16	13C3-PFBS	301.8 > 79.7	2.04e4	0.728	1.000	2.90	12.6	NO	100.5	0.0022242
17	13C2-PFHxA	315 > 269.8	9.21e3	0.860	1.000	3.27	4.81	NO	96.2	0.0030591
18	13C4-PFHpA	367.2 > 321.8	1.39e4	0.961	1.000	3.79	11.0	NO	87.6	0.0061252
19	18O2-PFHxS	403 > 102.6	7.30e3	0.442	1.000	3.91	12.5	NO	100.3	0.0100872
20	13C2-8:2 FTS	428.8 > 408.8	1.27e4	1.16	1.000	4.33	12.0	NO	95.9	0.0295458
21	13C2-PFOA	414.9 > 369.7	3.19e4	3.23	1.000	4.21	10.9	NO	86.9	0.0094076
22	13C8-PFOS	506.7 > 79.6	1.10e4	1.28	1.000	4.61	10.9	NO	87.0	0.0034585
23	13C5-PFNA	467.8 > 422.8	2.52e4	1.01	1.000	4.55	11.9	NO	95.3	0.0045727
24	13C2-PFDA	514.8 > 469.7	2.09e4	2.25	1.000	4.85	14.1	NO	112.9	0.0066360
25	13C2-8:2 FTS	529.1 > 508.7	2.76e3	0.335	1.000	4.83	12.5	NO	100.2	0.0100200



Custom Reporting: Select reports to generate

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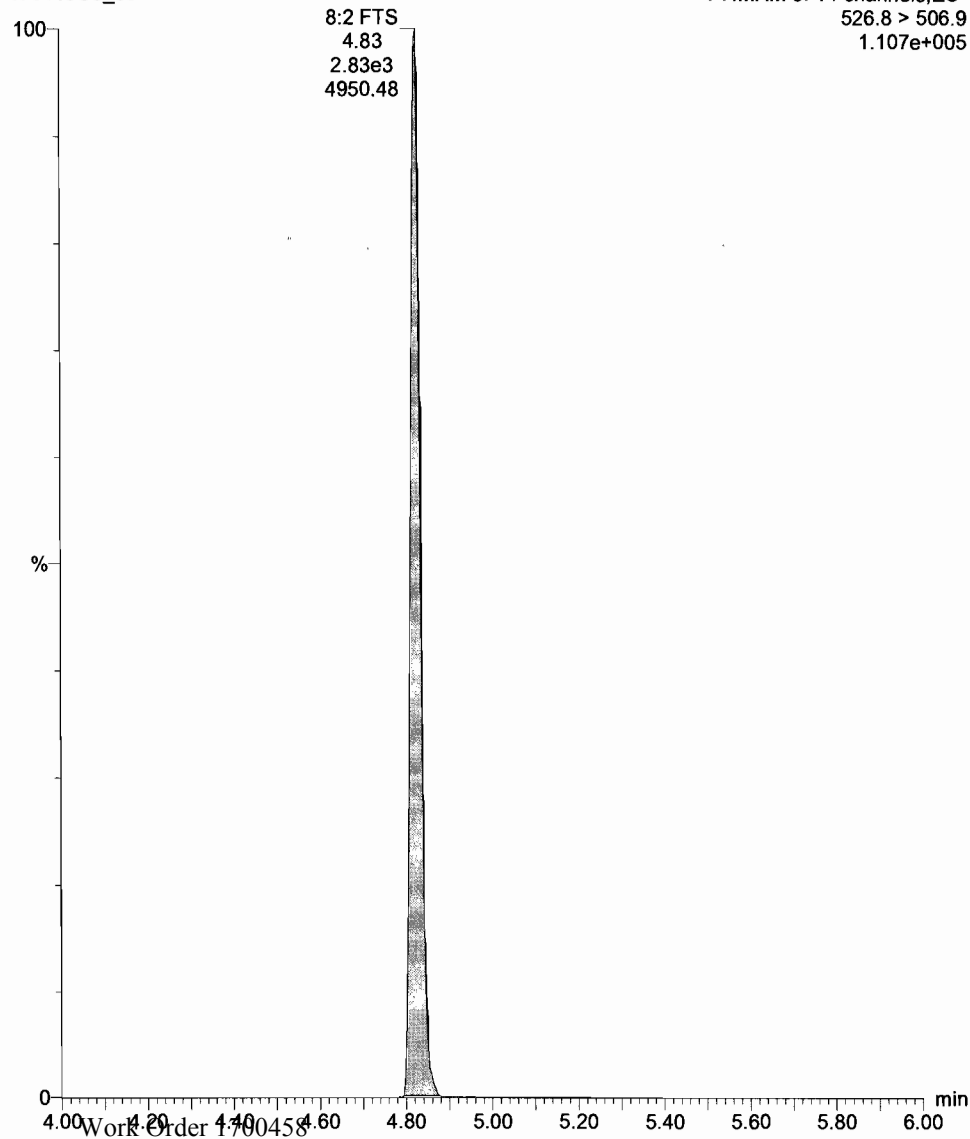
Last Altered: Thursday, April 20, 2017 08:55:09 Pacific Daylight Time

Printed: Thursday, April 20, 2017 08:55:13 Pacific Daylight Time

Name: 170419G3_36, Date: 19-Apr-2017, Time: 22:44:41, ID: ST170419G3-3 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

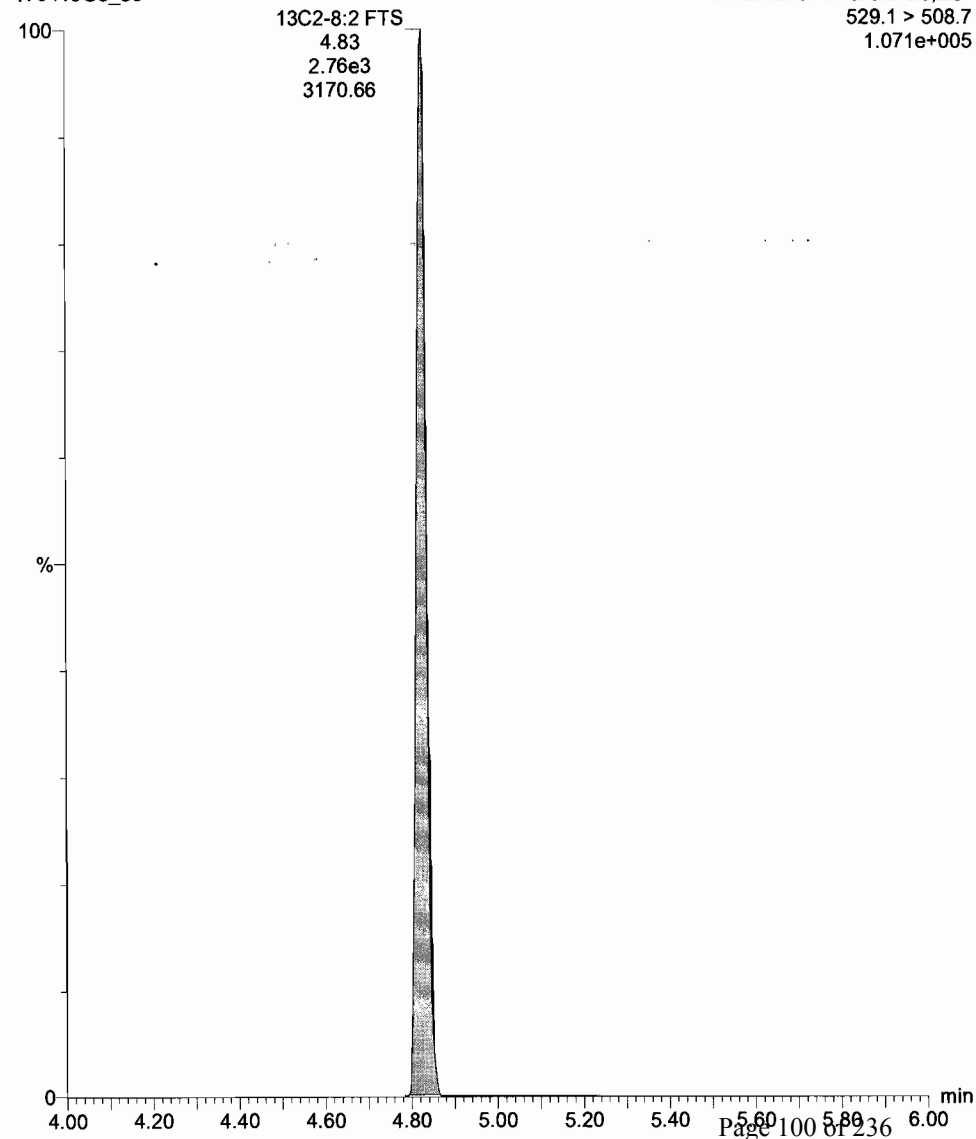
8:2 FTS

170419G3_36



13C2-8:2 FTS

170419G3_36

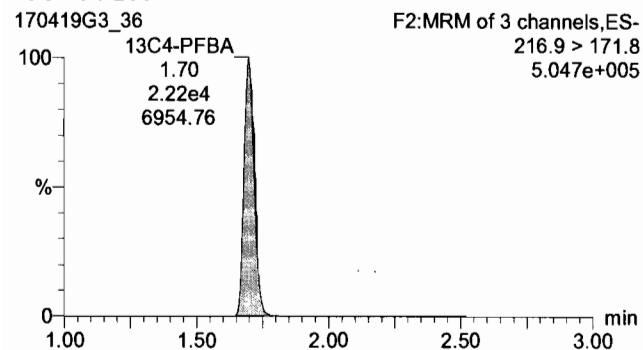


Dataset: Untitled

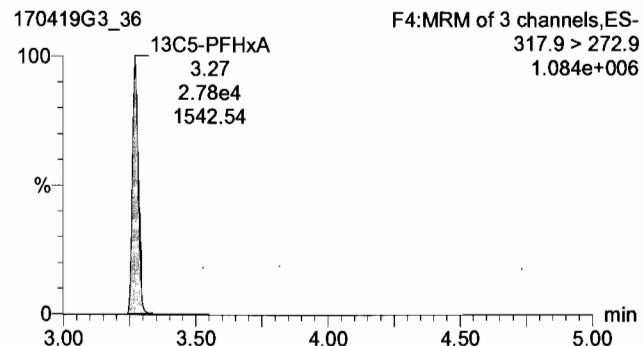
Last Altered: Thursday, April 20, 2017 08:55:09 Pacific Daylight Time
Printed: Thursday, April 20, 2017 08:55:13 Pacific Daylight Time

Name: 170419G3_36, Date: 19-Apr-2017, Time: 22:44:41, ID: ST170419G3-3 PFC CS3 17D1903, Description: PFC CS3 17D1903 A

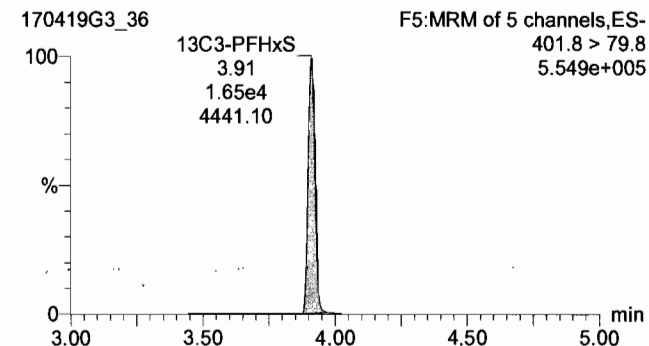
13C4-PFBA



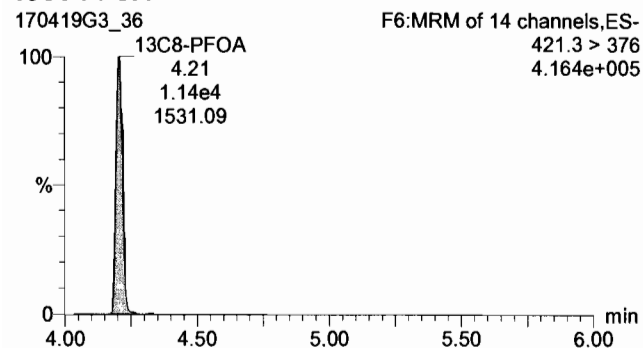
13C5-PFHxA



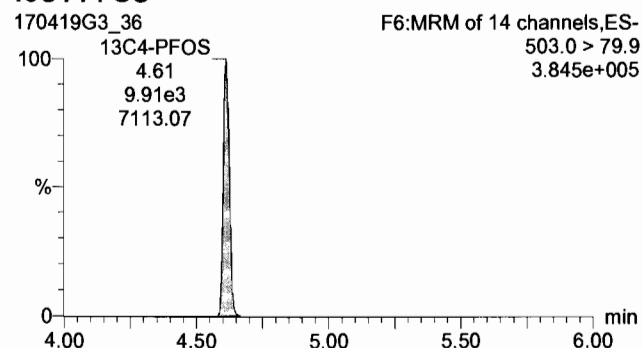
13C3-PFHxS



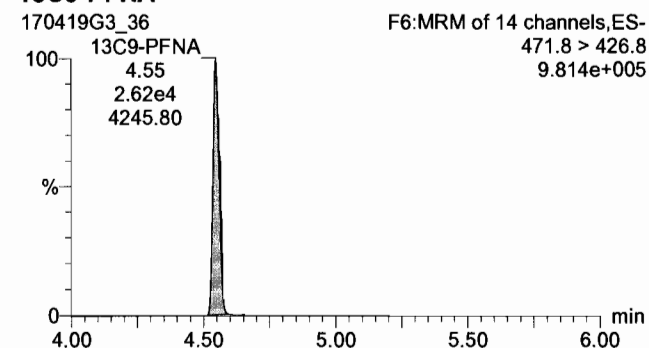
13C8-PFOA



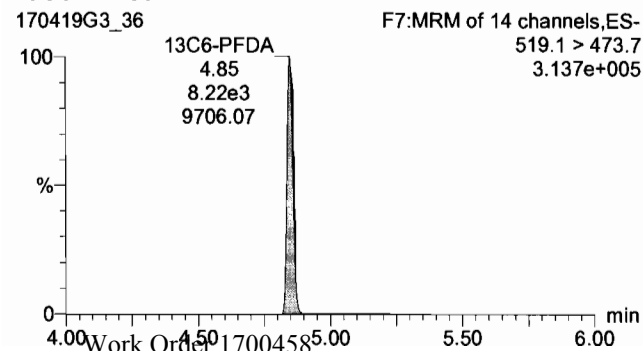
13C4-PFOS



13C9-PFNA



13C6-PFDA



INITIAL CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time
 Printed: Wednesday, April 12, 2017 08:52:16 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09
 Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Compound name: PFBA

Correlation coefficient: $r = 0.999822$, $r^2 = 0.999645$

Calibration curve: $0.769683 * x + -0.0105314$

Response type: Internal Std (Ref 14), 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 170411G1_2	0.250	1.73	5.22e2	3.46e4	0.259	3.6	0.755
2	2 170411G1_3	0.500	1.73	1.10e3	3.74e4	0.492	-1.6	0.736
3	3 170411G1_4	1.00	1.75	2.06e3	3.46e4	0.983	-1.7	0.746
4	4 170411G1_5	2.00	1.73	4.04e3	3.37e4	1.96	-2.0	0.749
5	5 170411G1_6	5.00	1.73	1.08e4	3.65e4	4.83	-3.3	0.742
6	6 170411G1_7	10.0	1.73	2.06e4	3.21e4	10.4	4.3	0.802
7	7 170411G1_8	50.0	1.73	9.75e4	3.11e4	51.0	1.9	0.784
8	8 170411G1_9	100	1.73	1.68e5	2.76e4	98.8	-1.2	0.761

eg 4/12/17

*✓ AC
4/12/17*

Compound name: PFPeA

Correlation coefficient: $r = 0.999069$, $r^2 = 0.998140$

Calibration curve: $0.951015 * x + -0.0156032$

Response type: Internal Std (Ref 15), 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 170411G1_2	0.250	2.66	2.65e2	1.36e4	0.272	9.0	0.974
2	2 170411G1_3	0.500	2.66	5.83e2	1.45e4	0.545	9.0	1.01
3	3 170411G1_4	1.00	2.67	9.28e2	1.35e4	0.920	-8.0	0.860
4	4 170411G1_5	2.00	2.67	1.88e3	1.30e4	1.91	-4.6	0.900
5	5 170411G1_6	5.00	2.66	4.86e3	1.45e4	4.42	-11.5	0.838
6	6 170411G1_7	10.0	2.66	9.69e3	1.24e4	10.3	3.0	0.978
7	7 170411G1_8	50.0	2.66	4.58e4	1.14e4	52.7	5.5	1.00
8	8 170411G1_9	100	2.66	7.58e4	1.02e4	97.6	-2.4	0.928

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 08:52:16 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.999718$, $r^2 = 0.999436$

Calibration curve: $0.891432 * x + -0.00858786$

Response type: Internal Std (Ref 16), 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 170411G1_2	0.250	2.93	4.98e2	2.61e4	0.277	10.9	0.954
2	2 170411G1_3	0.500	2.92	9.73e2	2.74e4	0.508	1.7	0.889
3	3 170411G1_4	1.00	2.93	1.75e3	2.60e4	0.954	-4.6	0.842
4	4 170411G1_5	2.00	2.92	3.40e3	2.59e4	1.85	-7.7	0.819
5	5 170411G1_6	5.00	2.92	9.20e3	2.71e4	4.77	-4.6	0.849
6	6 170411G1_7	10.0	2.92	1.76e4	2.40e4	10.3	2.7	0.915
7	7 170411G1_8	50.0	2.92	8.20e4	2.24e4	51.4	2.8	0.916
8	8 170411G1_9	100	2.92	1.33e5	1.89e4	98.7	-1.3	0.880

Compound name: PFHxA

Correlation coefficient: $r = 0.999838$, $r^2 = 0.999676$

Calibration curve: $1.21065 * x + 0.104397$

Response type: Internal Std (Ref 17), 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 170411G1_2	0.250	3.30	1.08e3	1.19e4	0.288	15.2	1.81
2	2 170411G1_3	0.500	3.29	1.89e3	1.31e4	0.509	1.9	1.44
3	3 170411G1_4	1.00	3.29	2.90e3	1.20e4	0.911	-8.9	1.21
4	4 170411G1_5	2.00	3.30	5.72e3	1.19e4	1.90	-4.9	1.20
5	5 170411G1_6	5.00	3.29	1.53e4	1.30e4	4.78	-4.4	1.18
6	6 170411G1_7	10.0	3.29	2.80e4	1.15e4	9.98	-0.2	1.22
7	7 170411G1_8	50.0	3.29	1.33e5	1.07e4	51.0	2.0	1.24
8	8 170411G1_9	100	3.30	2.24e5	9.30e3	99.4	-0.6	1.20

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:52:16 Pacific Daylight Time

Compound name: PFHpA

Correlation coefficient: $r = 0.999290$, $r^2 = 0.998581$

Calibration curve: $1.89656 * x + 0.00751525$

Response type: Internal Std (Ref 18), 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 170411G1_2	0.250	3.81	7.31e2	1.65e4	0.288	15.4	2.22
2	2 170411G1_3	0.500	3.81	1.32e3	1.79e4	0.482	-3.7	1.84
3	3 170411G1_4	1.00	3.81	2.40e3	1.68e4	0.938	-6.2	1.79
4	4 170411G1_5	2.00	3.81	4.55e3	1.67e4	1.79	-10.3	1.70
5	5 170411G1_6	5.00	3.81	1.30e4	1.77e4	4.85	-3.1	1.84
6	6 170411G1_7	10.0	3.81	2.47e4	1.54e4	10.6	5.8	2.01
7	7 170411G1_8	50.0	3.81	1.14e5	1.44e4	52.2	4.5	1.98
8	8 170411G1_9	100	3.81	1.85e5	1.25e4	97.6	-2.4	1.85

Compound name: PFHxS

Correlation coefficient: $r = 0.999835$, $r^2 = 0.999670$

Calibration curve: $2.38482 * x + 0.142212$

Response type: Internal Std (Ref 19), 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 170411G1_2	0.250	3.93	4.42e2	7.01e3	0.271	8.3	3.15
2	2 170411G1_3	0.500	3.93	8.24e2	7.78e3	0.495	-0.9	2.65
3	3 170411G1_4	1.00	3.93	1.45e3	7.41e3	0.965	-3.5	2.44
4	4 170411G1_5	2.00	3.93	2.74e3	7.31e3	1.91	-4.7	2.34
5	5 170411G1_6	5.00	3.93	7.20e3	7.77e3	4.80	-4.0	2.32
6	6 170411G1_7	10.0	3.93	1.52e4	7.52e3	10.6	5.6	2.53
7	7 170411G1_8	50.0	3.93	7.00e4	7.41e3	49.5	-1.0	2.36
8	8 170411G1_9	100	3.93	1.23e5	6.44e3	100	0.3	2.39

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:52:16 Pacific Daylight Time

Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.999652$

Calibration curve: $0.000271352 * x^2 + 0.157802 * x + -0.0156286$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

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

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	0.250	4.17	7.62e1	3.17e4	0.289	15.7	0.120
2	2 170411G1_3	0.500	4.17	1.71e2	3.62e4	0.473	-5.4	0.118
3	3 170411G1_4	1.00	4.18	3.30e2	3.53e4	0.839	-16.1	0.117
4	4 170411G1_5	2.00	4.17	8.35e2	3.18e4	2.17	8.4	0.164
5	5 170411G1_6	5.00	4.18	2.07e3	3.52e4	4.73	-5.5	0.147
6	6 170411G1_7	10.0	4.17	4.49e3	3.43e4	10.3	2.8	0.164
7	7 170411G1_8	50.0	4.18	2.25e4	3.30e4	50.0	-0.1	0.171
8	8 170411G1_9	100	4.18	4.28e4	2.89e4	100	0.0	0.185

Compound name: PFOA

Correlation coefficient: $r = 0.999839$, $r^2 = 0.999677$

Calibration curve: $0.920968 * x + 0.10842$

Response type: Internal Std (Ref 21), 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 170411G1_2	0.250	4.22	8.98e2	3.17e4	0.267	6.7	1.42
2	2 170411G1_3	0.500	4.22	1.66e3	3.62e4	0.504	0.9	1.15
3	3 170411G1_4	1.00	4.22	2.58e3	3.53e4	0.876	-12.4	0.916
4	4 170411G1_5	2.00	4.22	4.95e3	3.18e4	1.99	-0.4	0.971
5	5 170411G1_6	5.00	4.22	1.33e4	3.52e4	5.01	0.2	0.944
6	6 170411G1_7	10.0	4.22	2.68e4	3.43e4	10.5	5.0	0.978
7	7 170411G1_8	50.0	4.22	1.23e5	3.30e4	50.4	0.8	0.931
8	8 170411G1_9	100	4.23	2.12e5	2.89e4	99.2	-0.8	0.915

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

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Compound name: PFHpS

Correlation coefficient: $r = 0.999625$, $r^2 = 0.999251$

Calibration curve: $0.162817 * x + -0.0257849$

Response type: Internal Std (Ref 21), 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 170411G1_2	0.250	4.31	5.48e1	3.17e4	0.291	16.4	0.0864
2	2 170411G1_3	0.500	4.31	1.90e2	3.62e4	0.561	12.2	0.131
3	3 170411G1_4	1.00	4.31	3.29e2	3.53e4	0.875	-12.5	0.117
4	4 170411G1_5	2.00	4.31	6.58e2	3.18e4	1.74	-12.8	0.129
5	5 170411G1_6	5.00	4.31	2.11e3	3.52e4	4.76	-4.7	0.150
6	6 170411G1_7	10.0	4.31	4.37e3	3.43e4	9.94	-0.6	0.159
7	7 170411G1_8	50.0	4.31	2.20e4	3.30e4	51.4	2.8	0.167
8	8 170411G1_9	100	4.31	3.73e4	2.89e4	99.2	-0.8	0.161

Compound name: PFOS

Correlation coefficient: $r = 0.998740$, $r^2 = 0.997482$

Calibration curve: $1.14636 * x + -0.0620632$

Response type: Internal Std (Ref 22), 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 170411G1_2	0.250	4.63	1.62e2	7.82e3	0.281	12.3	1.04
2	2 170411G1_3	0.500	4.63	3.26e2	9.84e3	0.416	-16.9	0.829
3	3 170411G1_4	1.00	4.63	7.73e2	9.74e3	0.920	-8.0	0.992
4	4 170411G1_5	2.00	4.63	1.28e3	6.61e3	2.16	8.2	1.21
5	5 170411G1_6	5.00	4.63	3.85e3	8.42e3	5.04	0.8	1.14
6	6 170411G1_7	10.0	4.63	1.04e4	1.14e4	10.0	0.2	1.14
7	7 170411G1_8	50.0	4.63	6.02e4	1.23e4	53.5	6.9	1.22
8	8 170411G1_9	100	4.63	1.03e5	1.16e4	96.4	-3.6	1.10

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time
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Compound name: PFNA

Correlation coefficient: $r = 0.999820$, $r^2 = 0.999640$

Calibration curve: $0.871491 * x + 0.0025132$

Response type: Internal Std (Ref 23), 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 170411G1_2	0.250	4.57	4.59e2	2.20e4	0.297	18.8	1.05
2	2 170411G1_3	0.500	4.56	8.01e2	2.56e4	0.447	-10.7	0.783
3	3 170411G1_4	1.00	4.57	1.78e3	2.58e4	0.988	-1.2	0.864
4	4 170411G1_5	2.00	4.57	3.06e3	2.26e4	1.94	-3.2	0.845
5	5 170411G1_6	5.00	4.57	8.47e3	2.56e4	4.73	-5.3	0.826
6	6 170411G1_7	10.0	4.56	1.90e4	2.72e4	10.0	0.2	0.873
7	7 170411G1_8	50.0	4.57	9.62e4	2.70e4	51.0	2.1	0.890
8	8 170411G1_9	100	4.57	1.68e5	2.43e4	99.3	-0.7	0.865

Compound name: PFDA

Correlation coefficient: $r = 0.999769$, $r^2 = 0.999538$

Calibration curve: $0.772016 * x + 0.0862237$

Response type: Internal Std (Ref 24), 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 170411G1_2	0.250	4.87	2.70e2	1.14e4	0.272	8.8	1.18
2	2 170411G1_3	0.500	4.86	4.45e2	1.25e4	0.466	-6.8	0.892
3	3 170411G1_4	1.00	4.86	9.12e2	1.38e4	0.960	-4.0	0.827
4	4 170411G1_5	2.00	4.86	1.36e3	1.12e4	1.86	-7.2	0.759
5	5 170411G1_6	5.00	4.86	3.91e3	1.12e4	5.53	10.5	0.870
6	6 170411G1_7	10.0	4.86	1.17e4	1.89e4	9.89	-1.1	0.772
7	7 170411G1_8	50.0	4.86	6.36e4	2.05e4	50.1	0.3	0.776
8	8 170411G1_9	100	4.86	1.11e5	1.80e4	99.6	-0.4	0.770

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:52:16 Pacific Daylight Time

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.998039$

Calibration curve: $-0.00582292 * x^2 + 1.3375 * x + -0.0181159$

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

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

ⓐ Point excluded. 8/4/12/17

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	0.250	4.84	1.36e2	1.41e3	0.915	266.0	4.80 ⓐ
2	2 170411G1_3	0.500	4.83	1.05e2	1.98e3	0.509	1.7	1.32
3	3 170411G1_4	1.00	4.84	2.09e2	2.02e3	0.986	-1.4	1.30
4	4 170411G1_5	2.00	4.84	3.47e2	1.48e3	2.23	11.6	1.47
5	5 170411G1_6	5.00	4.84	7.07e2	1.58e3	4.27	-14.7	1.12
6	6 170411G1_7	10.0	4.83	3.00e3	2.89e3	10.2	1.5	1.30
7	7 170411G1_8	50.0	4.84	1.32e4	3.09e3	51.2	2.3	1.06
8	8 170411G1_9	100	4.84	2.04e4	3.39e3	97.8	-2.2	0.751

Compound name: 13C3-PFBA

Response Factor: 1.16835

RRF SD: 0.0191708, Relative SD: 1.64085

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	1.73	3.46e4	3.03e4	12.2	-2.5	1.14
2	2 170411G1_3	12.5	1.73	3.74e4	3.22e4	12.4	-0.8	1.16
3	3 170411G1_4	12.5	1.75	3.46e4	2.95e4	12.6	0.5	1.17
4	4 170411G1_5	12.5	1.73	3.37e4	2.89e4	12.5	-0.2	1.17
5	5 170411G1_6	12.5	1.73	3.65e4	3.04e4	12.8	2.6	1.20
6	6 170411G1_7	12.5	1.73	3.21e4	2.73e4	12.6	0.6	1.18
7	7 170411G1_8	12.5	1.73	3.11e4	2.71e4	12.3	-1.7	1.15
8	8 170411G1_9	12.5	1.73	2.76e4	2.33e4	12.7	1.3	1.18

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Compound name: 13C3-PFPeA

Response Factor: 0.379447

RRF SD: 0.00844638, Relative SD: 2.22597

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	2.67	1.36e4	3.63e4	12.3	-1.3	0.374
2	2 170411G1_3	12.5	2.66	1.45e4	3.82e4	12.5	0.1	0.380
3	3 170411G1_4	12.5	2.67	1.35e4	3.51e4	12.7	1.4	0.385
4	4 170411G1_5	12.5	2.66	1.30e4	3.49e4	12.3	-1.6	0.373
5	5 170411G1_6	12.5	2.66	1.45e4	3.70e4	12.9	3.4	0.392
6	6 170411G1_7	12.5	2.66	1.24e4	3.24e4	12.6	0.8	0.383
7	7 170411G1_8	12.5	2.66	1.14e4	3.13e4	12.0	-3.9	0.365
8	8 170411G1_9	12.5	2.66	1.02e4	2.66e4	12.6	1.0	0.383

Compound name: 13C3-PFBS

Response Factor: 0.72762

RRF SD: 0.013442, Relative SD: 1.84739

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	2.93	2.61e4	3.63e4	12.3	-1.2	0.719
2	2 170411G1_3	12.5	2.92	2.74e4	3.82e4	12.3	-1.5	0.717
3	3 170411G1_4	12.5	2.92	2.60e4	3.51e4	12.7	1.9	0.741
4	4 170411G1_5	12.5	2.92	2.59e4	3.49e4	12.8	2.1	0.743
5	5 170411G1_6	12.5	2.92	2.71e4	3.70e4	12.6	0.8	0.733
6	6 170411G1_7	12.5	2.92	2.40e4	3.24e4	12.7	1.9	0.742
7	7 170411G1_8	12.5	2.92	2.24e4	3.13e4	12.3	-1.7	0.715
8	8 170411G1_9	12.5	2.92	1.89e4	2.66e4	12.2	-2.3	0.711

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Compound name: 13C2-PFHxA

Response Factor: 0.859922

RRF SD: 0.0206717, Relative SD: 2.4039

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	5.00	3.29	1.19e4	3.63e4	4.76	-4.8	0.818
2	2 170411G1_3	5.00	3.29	1.31e4	3.82e4	4.99	-0.2	0.858
3	3 170411G1_4	5.00	3.29	1.20e4	3.51e4	4.98	-0.4	0.857
4	4 170411G1_5	5.00	3.29	1.19e4	3.49e4	4.95	-1.0	0.851
5	5 170411G1_6	5.00	3.29	1.30e4	3.70e4	5.10	2.1	0.878
6	6 170411G1_7	5.00	3.29	1.15e4	3.24e4	5.15	3.0	0.886
7	7 170411G1_8	5.00	3.29	1.07e4	3.13e4	4.99	-0.2	0.859
8	8 170411G1_9	5.00	3.29	9.30e3	2.66e4	5.08	1.5	0.873

Compound name: 13C4-PFHpA

Response Factor: 0.960796

RRF SD: 0.0635813, Relative SD: 6.61756

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	3.81	1.65e4	1.64e4	13.0	4.3	1.00
2	2 170411G1_3	12.5	3.81	1.79e4	1.78e4	13.1	4.7	1.01
3	3 170411G1_4	12.5	3.81	1.68e4	1.64e4	13.3	6.5	1.02
4	4 170411G1_5	12.5	3.81	1.67e4	1.69e4	12.8	2.5	0.985
5	5 170411G1_6	12.5	3.81	1.77e4	1.75e4	13.2	5.4	1.01
6	6 170411G1_7	12.5	3.81	1.54e4	1.70e4	11.8	-5.8	0.905
7	7 170411G1_8	12.5	3.81	1.44e4	1.64e4	11.5	-8.3	0.881
8	8 170411G1_9	12.5	3.81	1.25e4	1.43e4	11.3	-9.2	0.872

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Compound name: 18O2-PFHxS

Response Factor: 0.441607

RRF SD: 0.0095272, Relative SD: 2.15739

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	3.93	7.01e3	1.64e4	12.1	-3.4	0.426
2	2 170411G1_3	12.5	3.93	7.78e3	1.78e4	12.3	-1.2	0.436
3	3 170411G1_4	12.5	3.93	7.41e3	1.64e4	12.8	2.1	0.451
4	4 170411G1_5	12.5	3.93	7.31e3	1.69e4	12.2	-2.3	0.432
5	5 170411G1_6	12.5	3.93	7.77e3	1.75e4	12.6	0.5	0.444
6	6 170411G1_7	12.5	3.93	7.52e3	1.70e4	12.5	0.1	0.442
7	7 170411G1_8	12.5	3.93	7.41e3	1.64e4	12.8	2.6	0.453
8	8 170411G1_9	12.5	3.93	6.44e3	1.43e4	12.7	1.7	0.449

Compound name: 13C2-6:2 FTS

Response Factor: 1.16171

RRF SD: 0.25452, Relative SD: 21.9092

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.18	8.54e3	1.02e4	8.97	-28.2	0.834
2	2 170411G1_3	12.5	4.17	1.04e4	1.03e4	10.8	-13.3	1.01
3	3 170411G1_4	12.5	4.17	1.03e4	1.06e4	10.4	-16.6	0.969
4	4 170411G1_5	12.5	4.18	1.16e4	9.79e3	12.7	1.9	1.18
5	5 170411G1_6	12.5	4.18	1.17e4	1.12e4	11.2	-10.2	1.04
6	6 170411G1_7	12.5	4.17	1.32e4	1.05e4	13.5	8.3	1.26
7	7 170411G1_8	12.5	4.18	1.43e4	1.04e4	14.7	17.9	1.37
8	8 170411G1_9	12.5	4.18	1.51e4	9.29e3	17.5	40.2	1.63

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Compound name: 13C2-PFOA

Response Factor: 3.23317

RRF SD: 0.138939, Relative SD: 4.2973

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.22	3.17e4	1.02e4	12.0	-4.2	3.10
2	2 170411G1_3	12.5	4.22	3.62e4	1.03e4	13.6	8.7	3.51
3	3 170411G1_4	12.5	4.22	3.53e4	1.06e4	12.8	2.8	3.32
4	4 170411G1_5	12.5	4.22	3.18e4	9.79e3	12.6	0.6	3.25
5	5 170411G1_6	12.5	4.22	3.52e4	1.12e4	12.1	-2.9	3.14
6	6 170411G1_7	12.5	4.22	3.43e4	1.05e4	12.6	0.9	3.26
7	7 170411G1_8	12.5	4.22	3.30e4	1.04e4	12.2	-2.1	3.16
8	8 170411G1_9	12.5	4.22	2.89e4	9.29e3	12.0	-3.7	3.11

Compound name: 13C8-PFOS

Response Factor: 1.27734

RRF SD: 0.10813, Relative SD: 8.46524

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.63	7.82e3	6.74e3	11.3	-9.2	1.16
2	2 170411G1_3	12.5	4.63	9.84e3	7.23e3	13.3	6.5	1.36
3	3 170411G1_4	12.5	4.63	9.74e3	7.44e3	12.8	2.5	1.31
4	4 170411G1_5	12.5	4.63	6.61e3	5.95e3	10.9	-13.0	1.11
5	5 170411G1_6	12.5	4.63	8.42e3	6.33e3	13.0	4.2	1.33
6	6 170411G1_7	12.5	4.63	1.14e4	9.18e3	12.2	-2.6	1.24
7	7 170411G1_8	12.5	4.63	1.23e4	9.75e3	12.3	-1.4	1.26
8	8 170411G1_9	12.5	4.63	1.16e4	8.04e3	14.1	13.1	1.45

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Compound name: 13C5-PFNA

Response Factor: 1.00977

RRF SD: 0.0481909, Relative SD: 4.77246

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.57	2.20e4	2.38e4	11.4	-8.6	0.923
2	2 170411G1_3	12.5	4.56	2.56e4	2.66e4	11.9	-4.8	0.961
3	3 170411G1_4	12.5	4.57	2.58e4	2.55e4	12.5	0.3	1.01
4	4 170411G1_5	12.5	4.57	2.26e4	2.21e4	12.7	1.7	1.03
5	5 170411G1_6	12.5	4.57	2.56e4	2.46e4	12.9	3.4	1.04
6	6 170411G1_7	12.5	4.56	2.72e4	2.52e4	13.4	7.0	1.08
7	7 170411G1_8	12.5	4.56	2.70e4	2.67e4	12.5	0.3	1.01
8	8 170411G1_9	12.5	4.57	2.43e4	2.39e4	12.6	0.8	1.02

Compound name: 13C2-PFDA

Response Factor: 2.24727

RRF SD: 0.116219, Relative SD: 5.17158

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.86	1.14e4	5.30e3	12.0	-4.2	2.15
2	2 170411G1_3	12.5	4.86	1.25e4	6.05e3	11.5	-8.2	2.06
3	3 170411G1_4	12.5	4.86	1.38e4	6.28e3	12.2	-2.4	2.19
4	4 170411G1_5	12.5	4.86	1.12e4	4.61e3	13.5	8.0	2.43
5	5 170411G1_6	12.5	4.86	1.12e4	5.09e3	12.3	-1.9	2.21
6	6 170411G1_7	12.5	4.86	1.89e4	8.08e3	13.0	4.3	2.34
7	7 170411G1_8	12.5	4.86	2.05e4	8.98e3	12.7	1.6	2.28
8	8 170411G1_9	12.5	4.86	1.80e4	7.80e3	12.9	2.9	2.31

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Compound name: 13C2-8:2 FTS

Response Factor: 0.335384

RRF SD: 0.0481294, Relative SD: 14.3505

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.84	1.41e3	5.30e3	9.92	-20.6	0.266
2	2 170411G1_3	12.5	4.84	1.98e3	6.05e3	12.2	-2.6	0.327
3	3 170411G1_4	12.5	4.84	2.02e3	6.28e3	12.0	-4.1	0.322
4	4 170411G1_5	12.5	4.84	1.48e3	4.61e3	11.9	-4.4	0.321
5	5 170411G1_6	12.5	4.84	1.58e3	5.09e3	11.6	-7.2	0.311
6	6 170411G1_7	12.5	4.84	2.89e3	8.08e3	13.3	6.7	0.358
7	7 170411G1_8	12.5	4.83	3.09e3	8.98e3	12.8	2.7	0.344
8	8 170411G1_9	12.5	4.84	3.39e3	7.80e3	16.2	29.5	0.434

Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	1.73	3.03e4	3.03e4	12.5	0.0	1.00
2	2 170411G1_3	12.5	1.73	3.22e4	3.22e4	12.5	0.0	1.00
3	3 170411G1_4	12.5	1.75	2.95e4	2.95e4	12.5	0.0	1.00
4	4 170411G1_5	12.5	1.73	2.89e4	2.89e4	12.5	0.0	1.00
5	5 170411G1_6	12.5	1.73	3.04e4	3.04e4	12.5	0.0	1.00
6	6 170411G1_7	12.5	1.73	2.73e4	2.73e4	12.5	0.0	1.00
7	7 170411G1_8	12.5	1.73	2.71e4	2.71e4	12.5	0.0	1.00
8	8 170411G1_9	12.5	1.73	2.33e4	2.33e4	12.5	0.0	1.00

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Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	3.29	3.63e4	3.63e4	12.5	0.0	1.00
2	2 170411G1_3	12.5	3.29	3.82e4	3.82e4	12.5	0.0	1.00
3	3 170411G1_4	12.5	3.29	3.51e4	3.51e4	12.5	0.0	1.00
4	4 170411G1_5	12.5	3.29	3.49e4	3.49e4	12.5	0.0	1.00
5	5 170411G1_6	12.5	3.29	3.70e4	3.70e4	12.5	0.0	1.00
6	6 170411G1_7	12.5	3.29	3.24e4	3.24e4	12.5	0.0	1.00
7	7 170411G1_8	12.5	3.29	3.13e4	3.13e4	12.5	0.0	1.00
8	8 170411G1_9	12.5	3.29	2.66e4	2.66e4	12.5	0.0	1.00

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	3.93	1.64e4	1.64e4	12.5	0.0	1.00
2	2 170411G1_3	12.5	3.93	1.78e4	1.78e4	12.5	0.0	1.00
3	3 170411G1_4	12.5	3.93	1.64e4	1.64e4	12.5	0.0	1.00
4	4 170411G1_5	12.5	3.93	1.69e4	1.69e4	12.5	0.0	1.00
5	5 170411G1_6	12.5	3.93	1.75e4	1.75e4	12.5	0.0	1.00
6	6 170411G1_7	12.5	3.93	1.70e4	1.70e4	12.5	0.0	1.00
7	7 170411G1_8	12.5	3.93	1.64e4	1.64e4	12.5	0.0	1.00
8	8 170411G1_9	12.5	3.93	1.43e4	1.43e4	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 29), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.22	1.02e4	1.02e4	12.5	0.0	1.00
2	2 170411G1_3	12.5	4.22	1.03e4	1.03e4	12.5	0.0	1.00
3	3 170411G1_4	12.5	4.22	1.06e4	1.06e4	12.5	0.0	1.00
4	4 170411G1_5	12.5	4.22	9.79e3	9.79e3	12.5	0.0	1.00
5	5 170411G1_6	12.5	4.22	1.12e4	1.12e4	12.5	0.0	1.00
6	6 170411G1_7	12.5	4.22	1.05e4	1.05e4	12.5	0.0	1.00
7	7 170411G1_8	12.5	4.22	1.04e4	1.04e4	12.5	0.0	1.00
8	8 170411G1_9	12.5	4.22	9.29e3	9.29e3	12.5	0.0	1.00

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.63	6.74e3	6.74e3	12.5	0.0	1.00
2	2 170411G1_3	12.5	4.63	7.23e3	7.23e3	12.5	0.0	1.00
3	3 170411G1_4	12.5	4.63	7.44e3	7.44e3	12.5	0.0	1.00
4	4 170411G1_5	12.5	4.63	5.95e3	5.95e3	12.5	0.0	1.00
5	5 170411G1_6	12.5	4.63	6.33e3	6.33e3	12.5	0.0	1.00
6	6 170411G1_7	12.5	4.63	9.18e3	9.18e3	12.5	0.0	1.00
7	7 170411G1_8	12.5	4.63	9.75e3	9.75e3	12.5	0.0	1.00
8	8 170411G1_9	12.5	4.63	8.04e3	8.04e3	12.5	0.0	1.00

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.57	2.38e4	2.38e4	12.5	0.0	1.00
2	2 170411G1_3	12.5	4.57	2.66e4	2.66e4	12.5	0.0	1.00
3	3 170411G1_4	12.5	4.56	2.55e4	2.55e4	12.5	0.0	1.00
4	4 170411G1_5	12.5	4.57	2.21e4	2.21e4	12.5	0.0	1.00
5	5 170411G1_6	12.5	4.56	2.46e4	2.46e4	12.5	0.0	1.00
6	6 170411G1_7	12.5	4.56	2.52e4	2.52e4	12.5	0.0	1.00
7	7 170411G1_8	12.5	4.56	2.67e4	2.67e4	12.5	0.0	1.00
8	8 170411G1_9	12.5	4.57	2.39e4	2.39e4	12.5	0.0	1.00

Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170411G1_2	12.5	4.86	5.30e3	5.30e3	12.5	0.0	1.00
2	2 170411G1_3	12.5	4.86	6.05e3	6.05e3	12.5	0.0	1.00
3	3 170411G1_4	12.5	4.86	6.28e3	6.28e3	12.5	0.0	1.00
4	4 170411G1_5	12.5	4.86	4.61e3	4.61e3	12.5	0.0	1.00
5	5 170411G1_6	12.5	4.86	5.09e3	5.09e3	12.5	0.0	1.00
6	6 170411G1_7	12.5	4.86	8.08e3	8.08e3	12.5	0.0	1.00
7	7 170411G1_8	12.5	4.86	8.98e3	8.98e3	12.5	0.0	1.00
8	8 170411G1_9	12.5	4.86	7.80e3	7.80e3	12.5	0.0	1.00

Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:11:41 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 09:14:41 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170411G1_1	IPA	11-Apr-17	11:30:56
2	170411G1_2	ST170411G1-1 PFC CS-2 17D0721	11-Apr-17	11:43:35
3	170411G1_3	ST170411G1-2 PFC CS-1 17D0722	11-Apr-17	11:56:09
4	170411G1_4	ST170411G1-3 PFC CS0 17D0723	11-Apr-17	12:09:07
5	170411G1_5	ST170411G1-4 PFC CS1 17D0724	11-Apr-17	12:22:04
6	170411G1_6	ST170411G1-5 PFC CS2 17D0725	11-Apr-17	12:34:40
7	170411G1_7	ST170411G1-6 PFC CS3 17D0726	11-Apr-17	12:47:16
8	170411G1_8	ST170411G1-7 PFC CS4 17D0727	11-Apr-17	12:59:54
9	170411G1_9	ST170411G1-8 PFC CS5 17D0728	11-Apr-17	13:12:32
10	170411G1_10	IPA	11-Apr-17	13:25:11
11	170411G1_11	SS170411G1-1 PFC SSS 17D0729	11-Apr-17	13:37:49
12	170411G1_12	IPA	11-Apr-17	13:50:25
13	170411G1_13	B7D0041-BS1 OPR 0.25	11-Apr-17	14:03:03
14	170411G1_14	IPA	11-Apr-17	14:15:38
15	170411G1_15	B7D0041-BLK1 Method Blank 0.25	11-Apr-17	14:28:16
16	170411G1_16	1700428-01 Kitchen 0.26378	11-Apr-17	14:40:52
17	170411G1_17	IPA	11-Apr-17	14:53:29
18	170411G1_18	ST170411G1-9 PFC CS3 17D0726	11-Apr-17	15:06:08
19	170411G1_19	IPA	11-Apr-17	15:21:25
20	170411G1_20	B7D0046-BS1 OPR	11-Apr-17	15:37:11
21	170411G1_21	IPA	11-Apr-17	15:49:44
22	170411G1_22	B7D0046-BLK1 Method Blank	11-Apr-17	16:02:23
23	170411G1_23	1700350-01RE1 Paper Residuals 3.4	11-Apr-17	16:14:58
24	170411G1_24	1700351-01RE1 Paper Residuals 3.45	11-Apr-17	16:27:35
25	170411G1_25	IPA	11-Apr-17	16:40:19
26	170411G1_26	ST170411G1-10 PFC CS3 17D0726	11-Apr-17	16:52:58
27	170411G1_27	IPA	11-Apr-17	17:05:34

Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

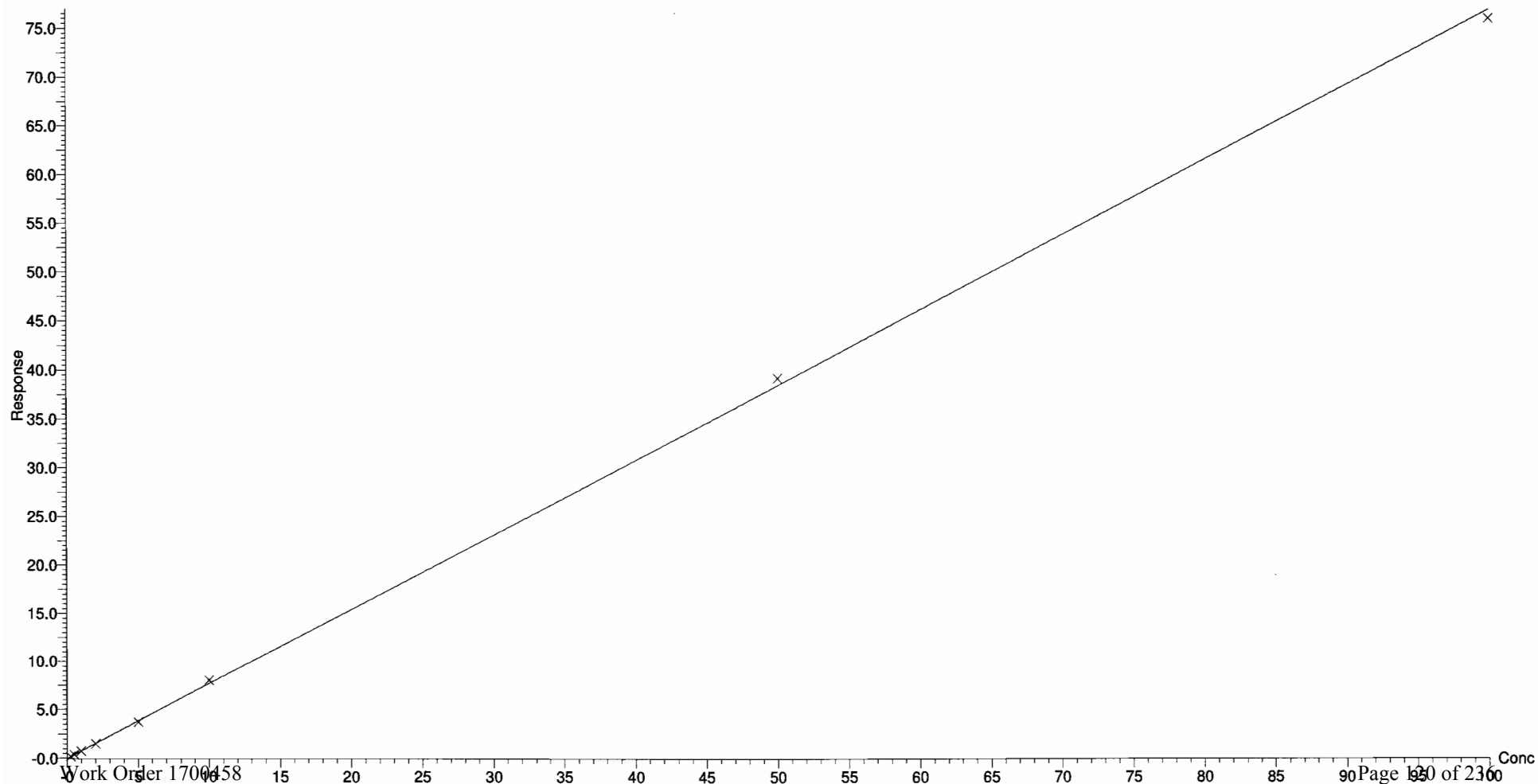
Compound name: PFBA

Correlation coefficient: $r = 0.999822$, $r^2 = 0.999645$

Calibration curve: $0.769683 * x + -0.0105314$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

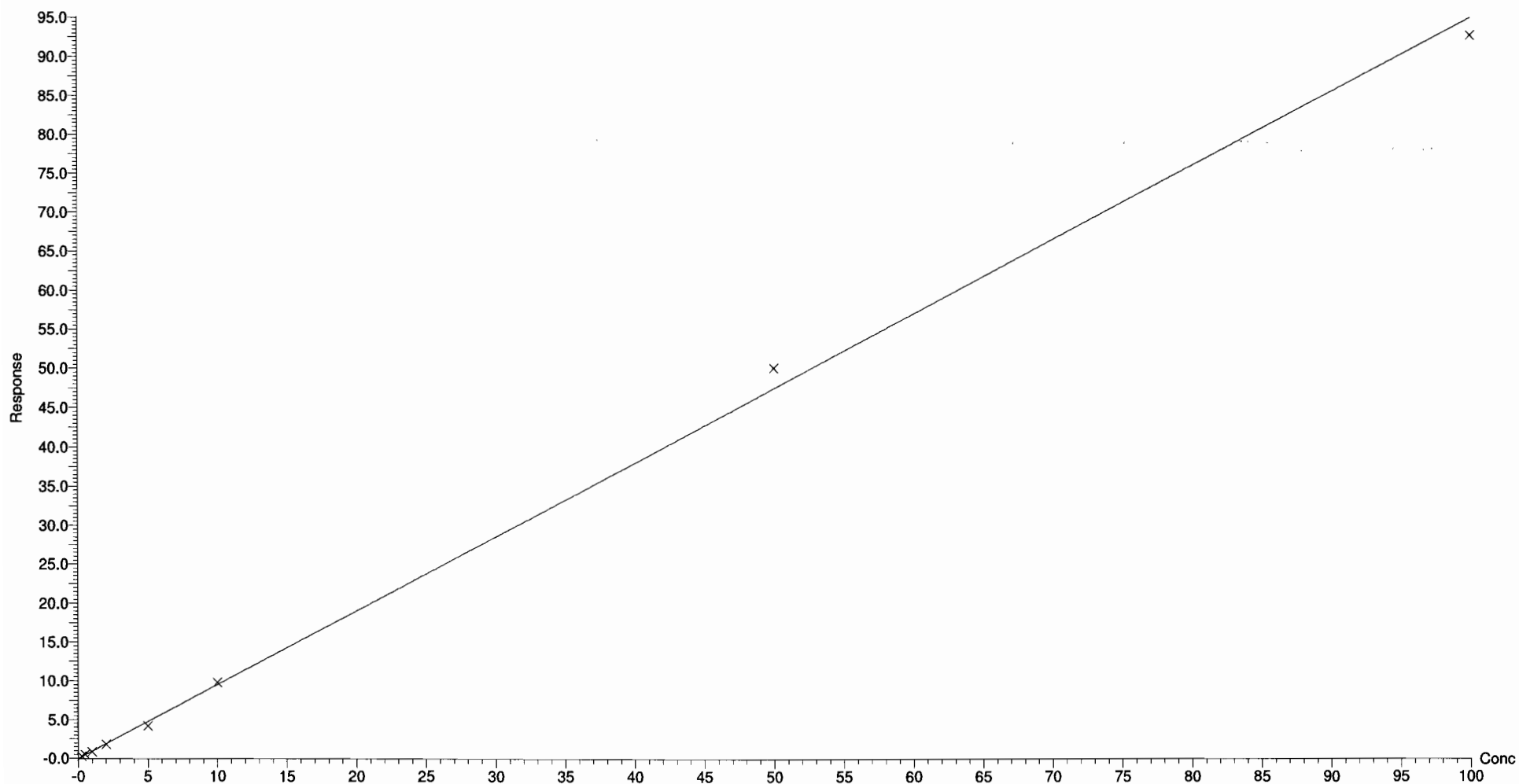
Compound name: PFPeA

Correlation coefficient: $r = 0.999069$, $r^2 = 0.998140$

Calibration curve: $0.951015 * x + -0.0156032$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

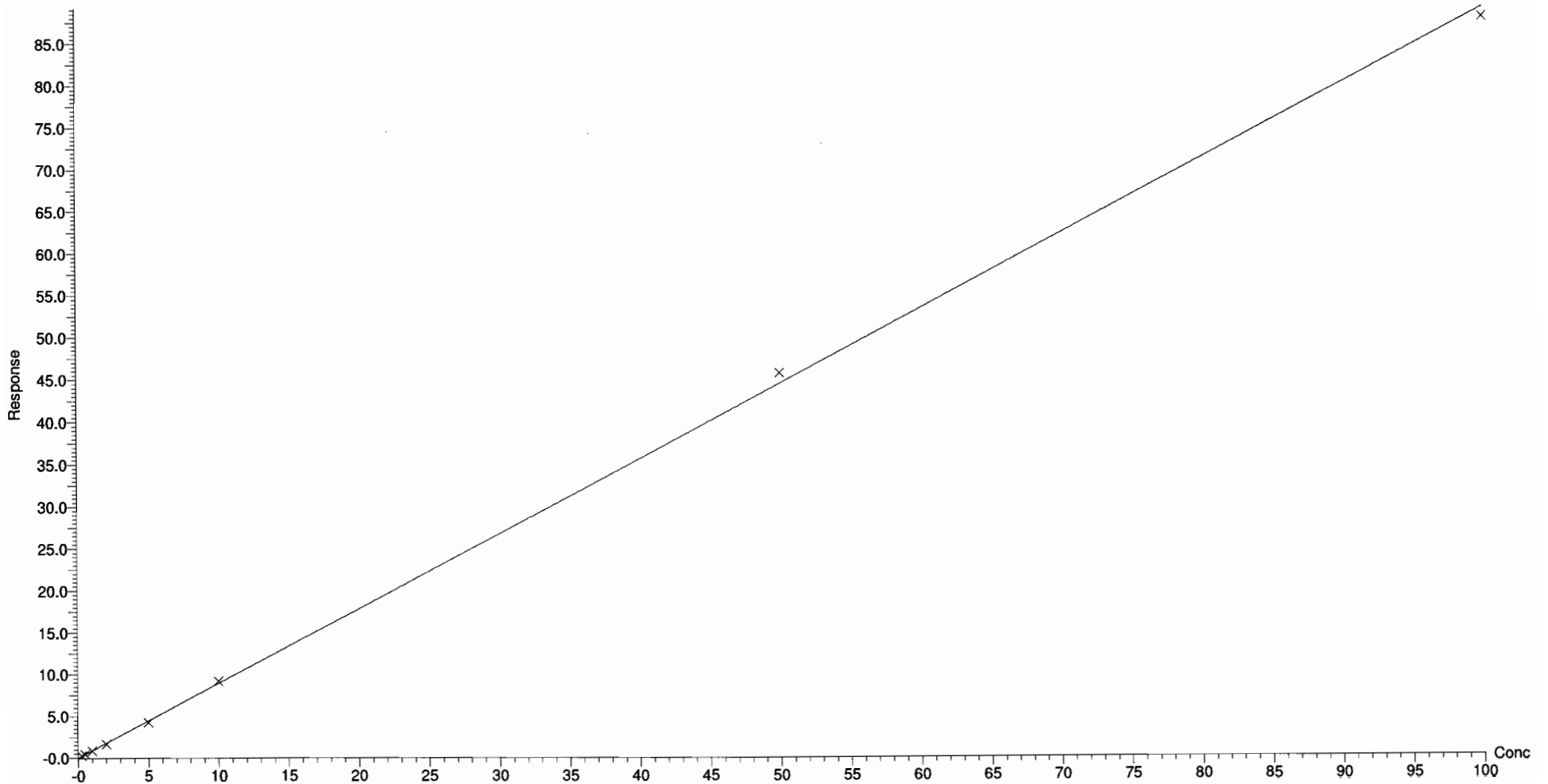
Compound name: PFBS

Correlation coefficient: $r = 0.999718$, $r^2 = 0.999436$

Calibration curve: $0.891432 * x + -0.00858786$

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

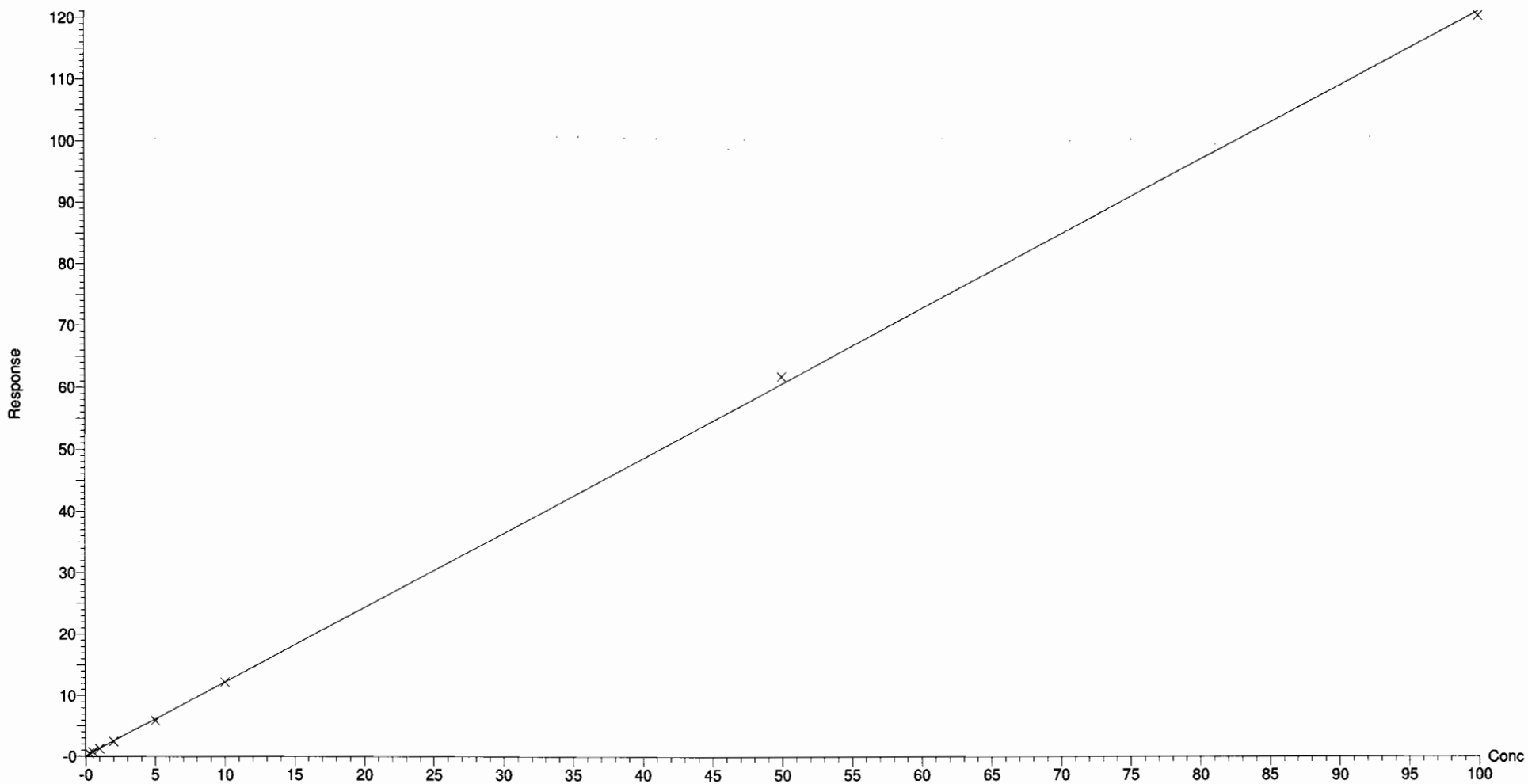
Compound name: PFHxA

Correlation coefficient: $r = 0.999838$, $r^2 = 0.999676$

Calibration curve: $1.21065 * x + 0.104397$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

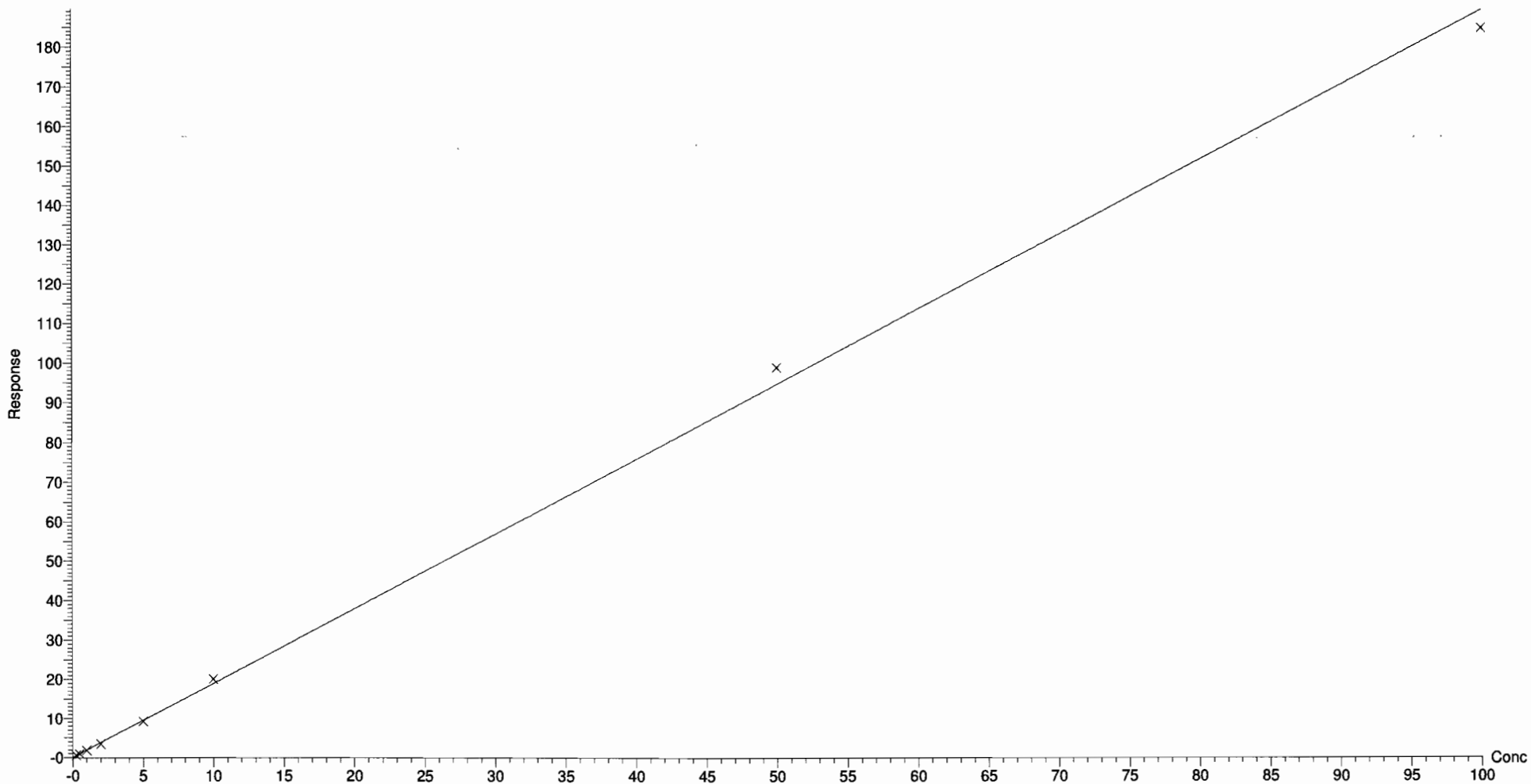
Compound name: PFHpA

Correlation coefficient: $r = 0.999290$, $r^2 = 0.998581$

Calibration curve: $1.89656 * x + 0.00751525$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

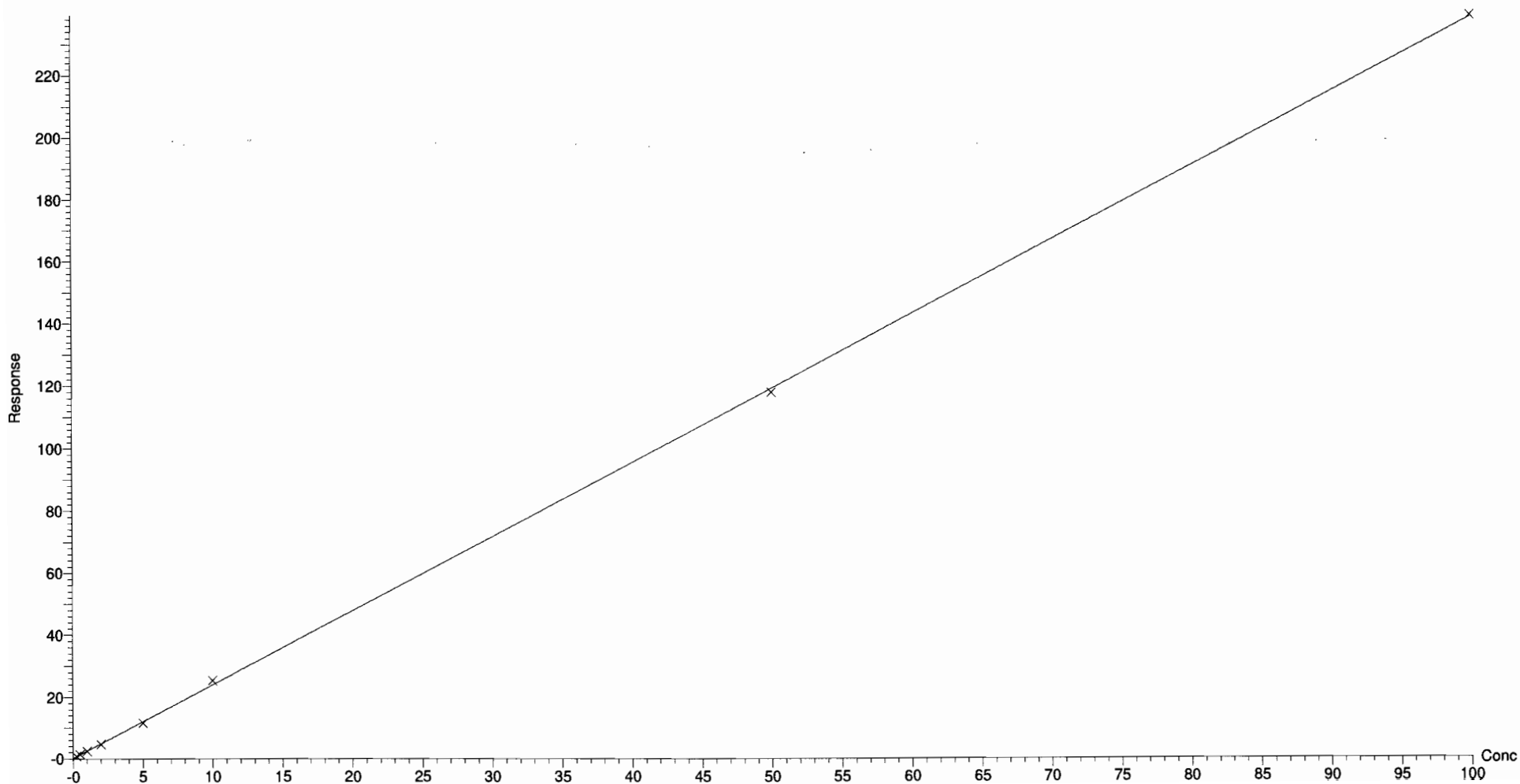
Compound name: PFHxS

Correlation coefficient: $r = 0.999835$, $r^2 = 0.999670$

Calibration curve: $2.38482 * x + 0.142212$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

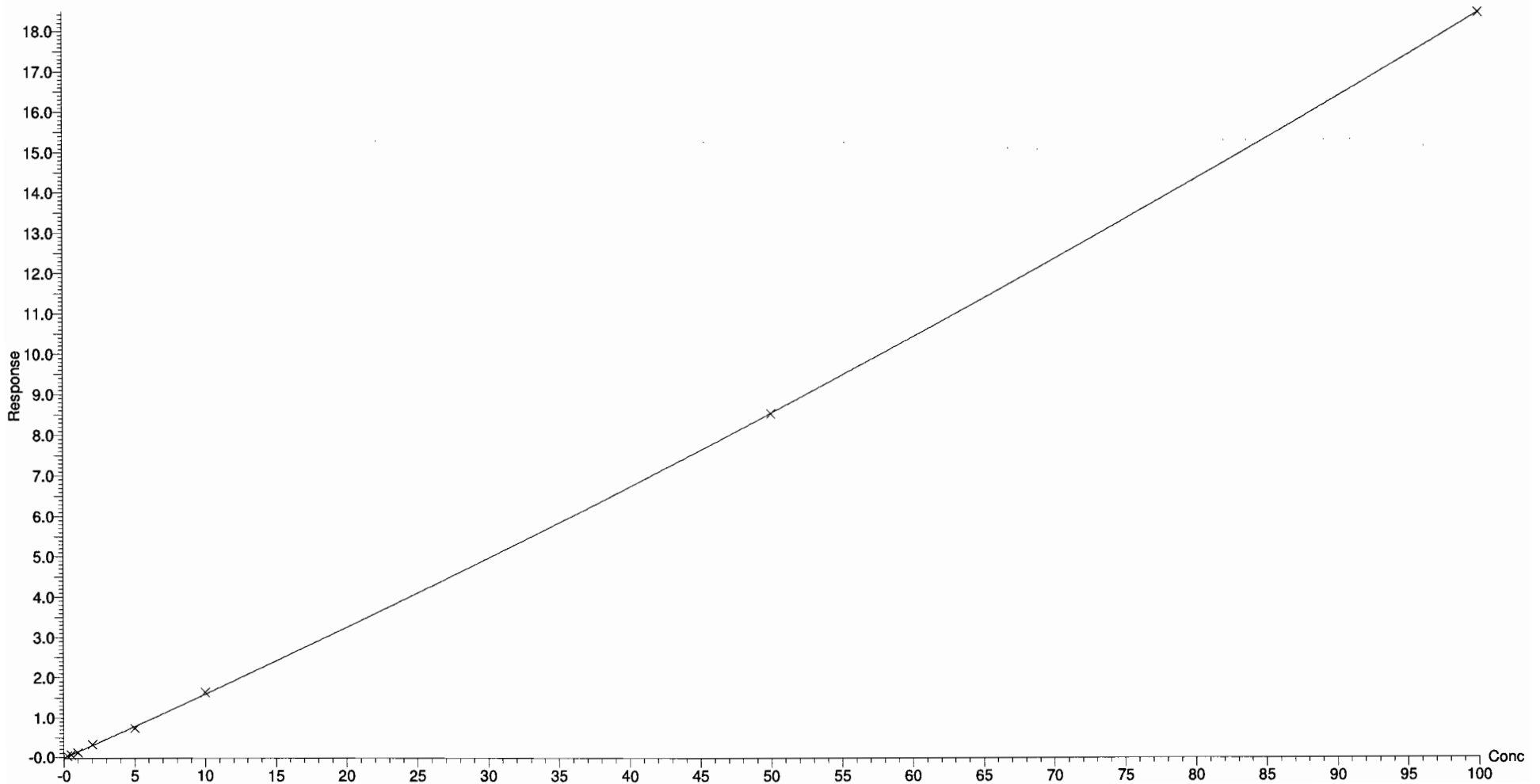
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.999652$

Calibration curve: $0.000271352 * x^2 + 0.157802 * x + -0.0156286$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

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



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

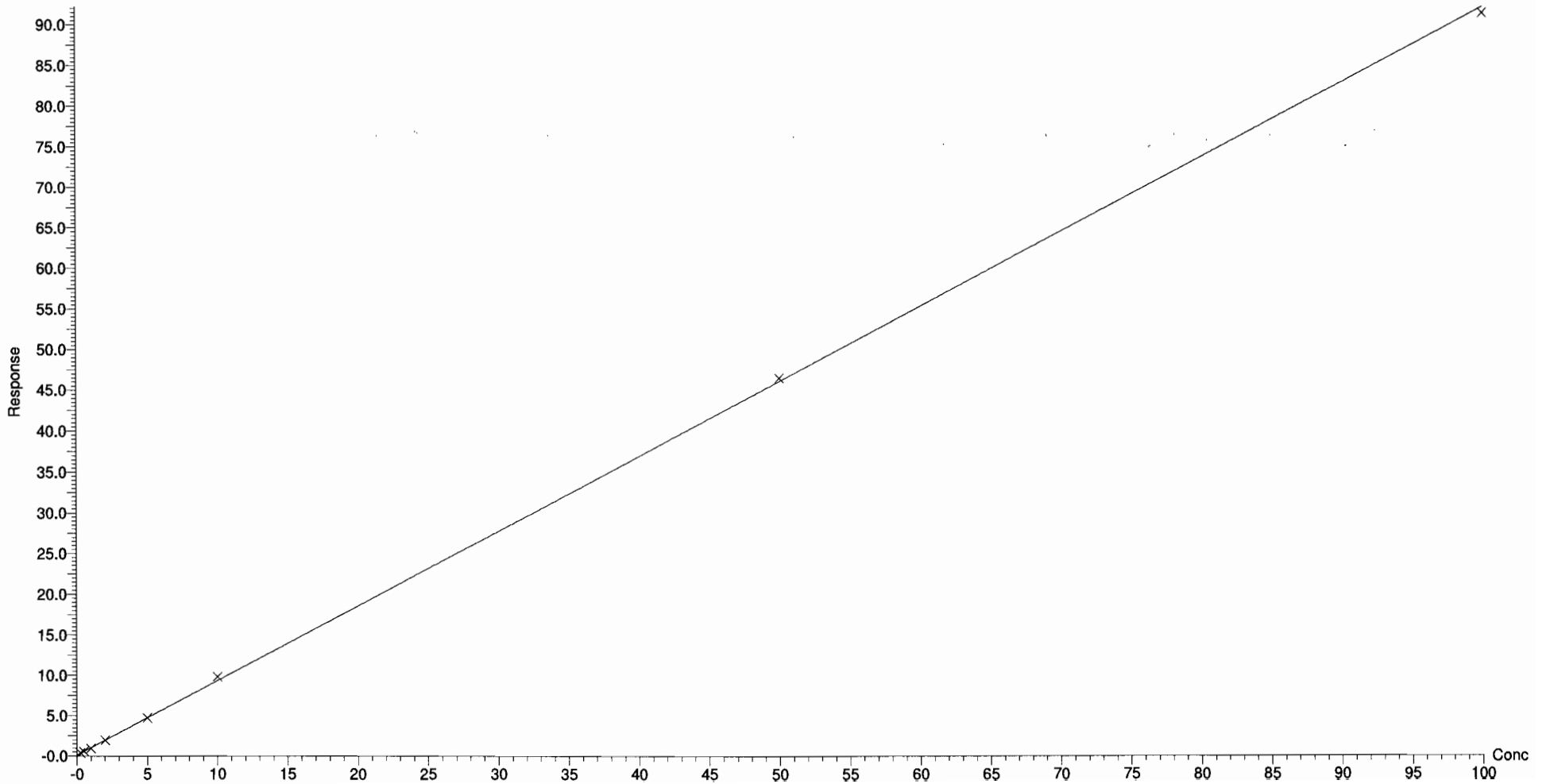
Compound name: PFOA

Correlation coefficient: $r = 0.999839$, $r^2 = 0.999677$

Calibration curve: $0.920968 * x + 0.10842$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

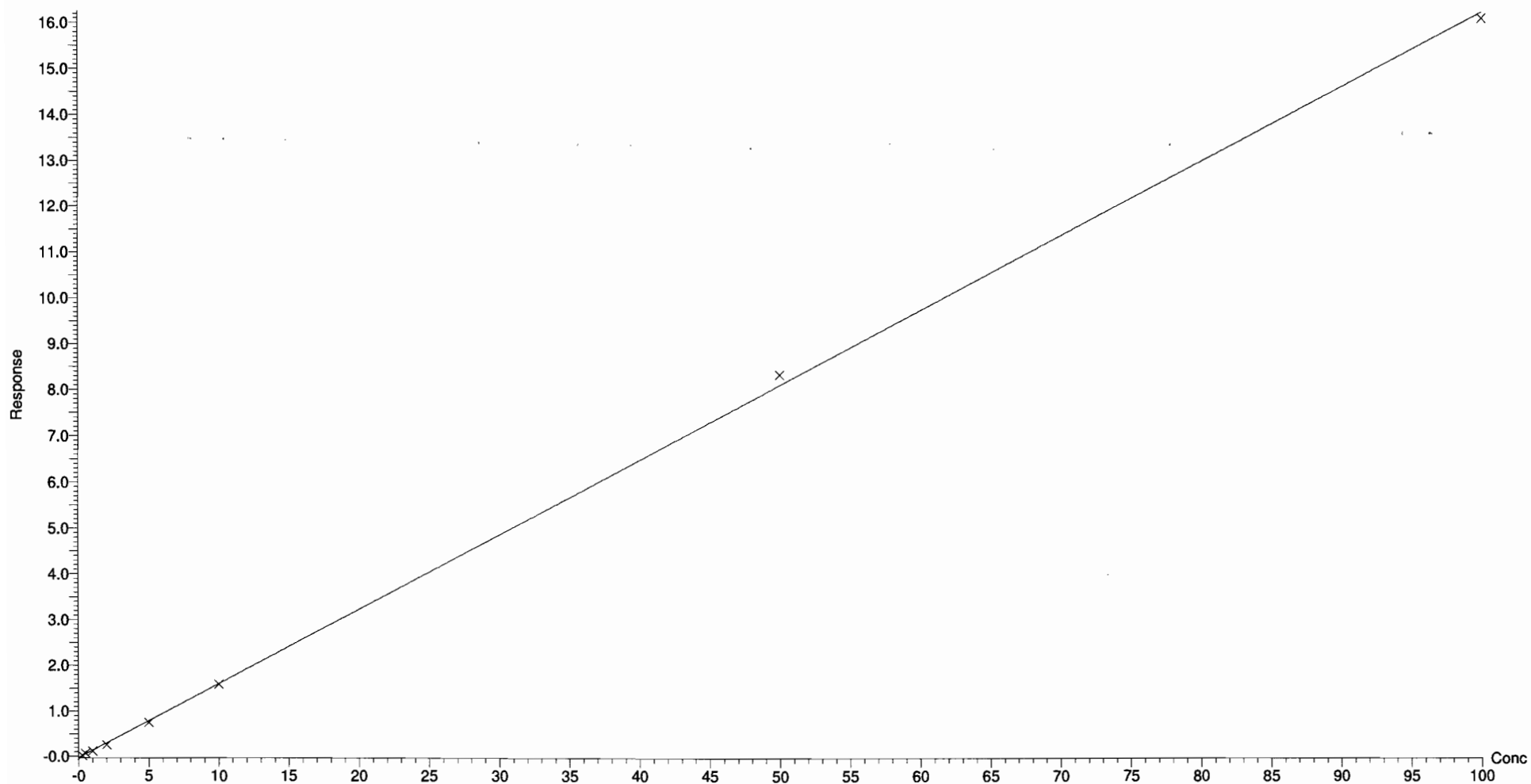
Compound name: PFHpS

Correlation coefficient: $r = 0.999625$, $r^2 = 0.999251$

Calibration curve: $0.162817 * x + -0.0257849$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

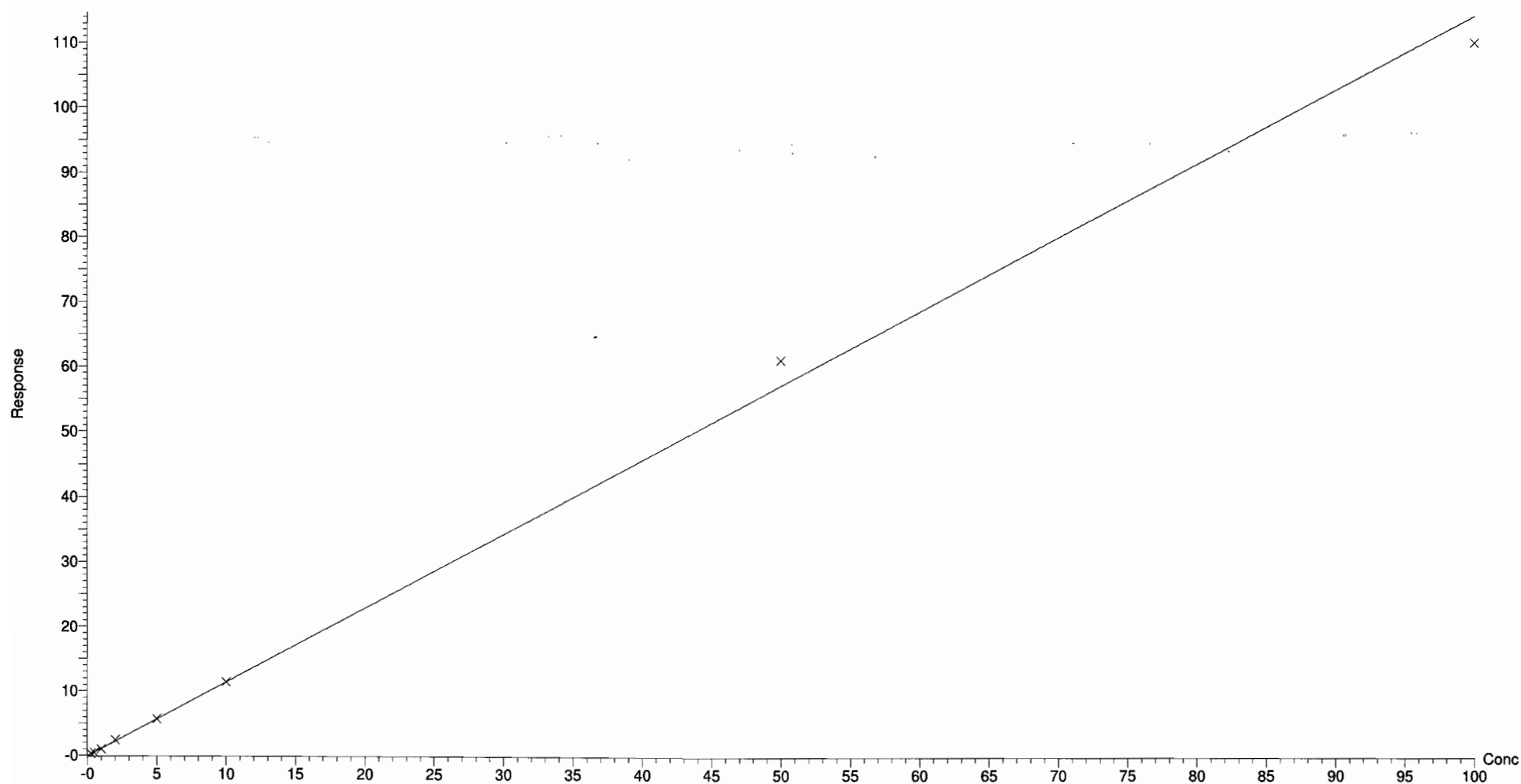
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

Compound name: PFOS
Correlation coefficient: $r = 0.998740$, $r^2 = 0.997482$
Calibration curve: $1.14636 * x + -0.0620632$
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

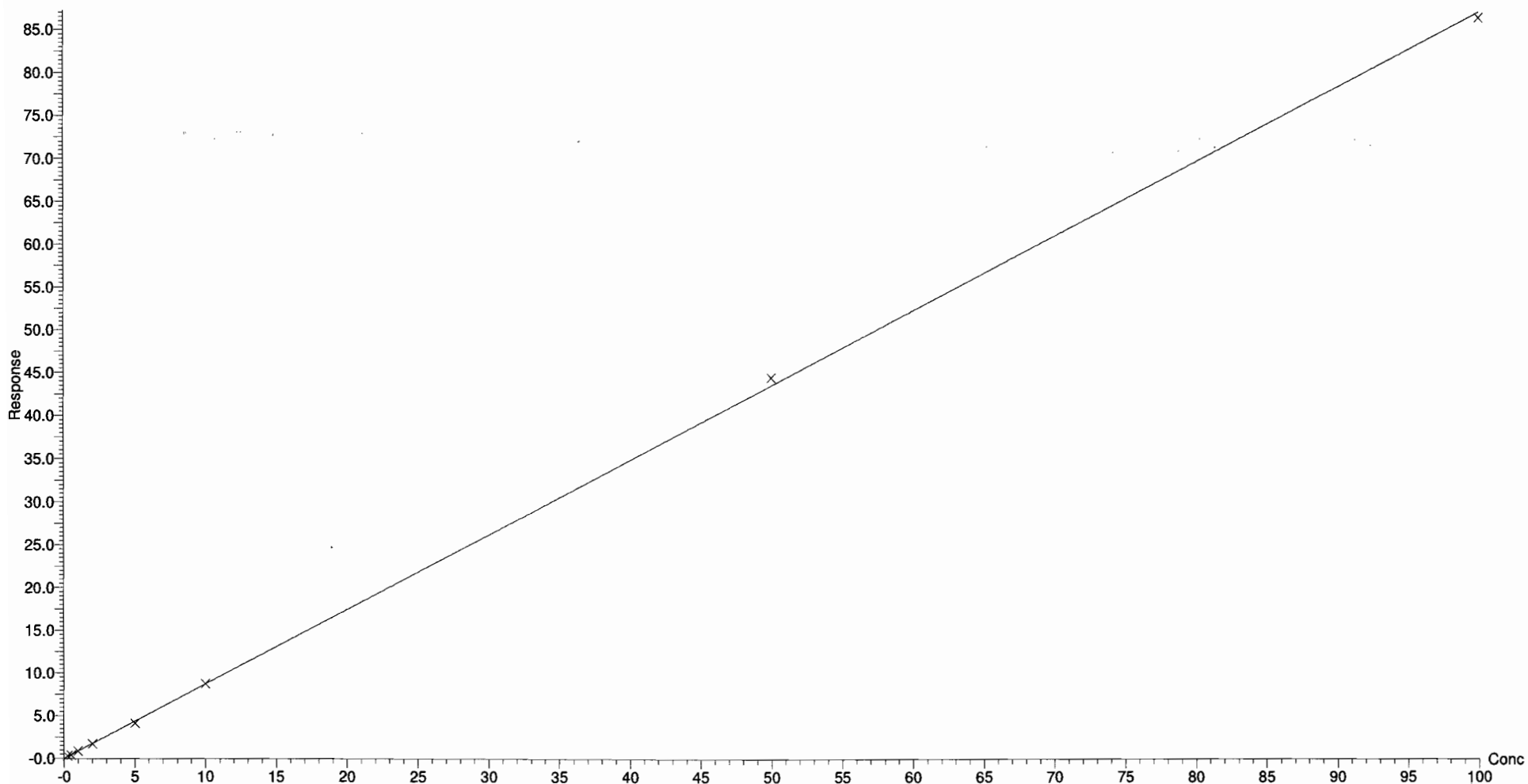
Compound name: PFNA

Correlation coefficient: $r = 0.999820$, $r^2 = 0.999640$

Calibration curve: $0.871491 * x + 0.0025132$

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

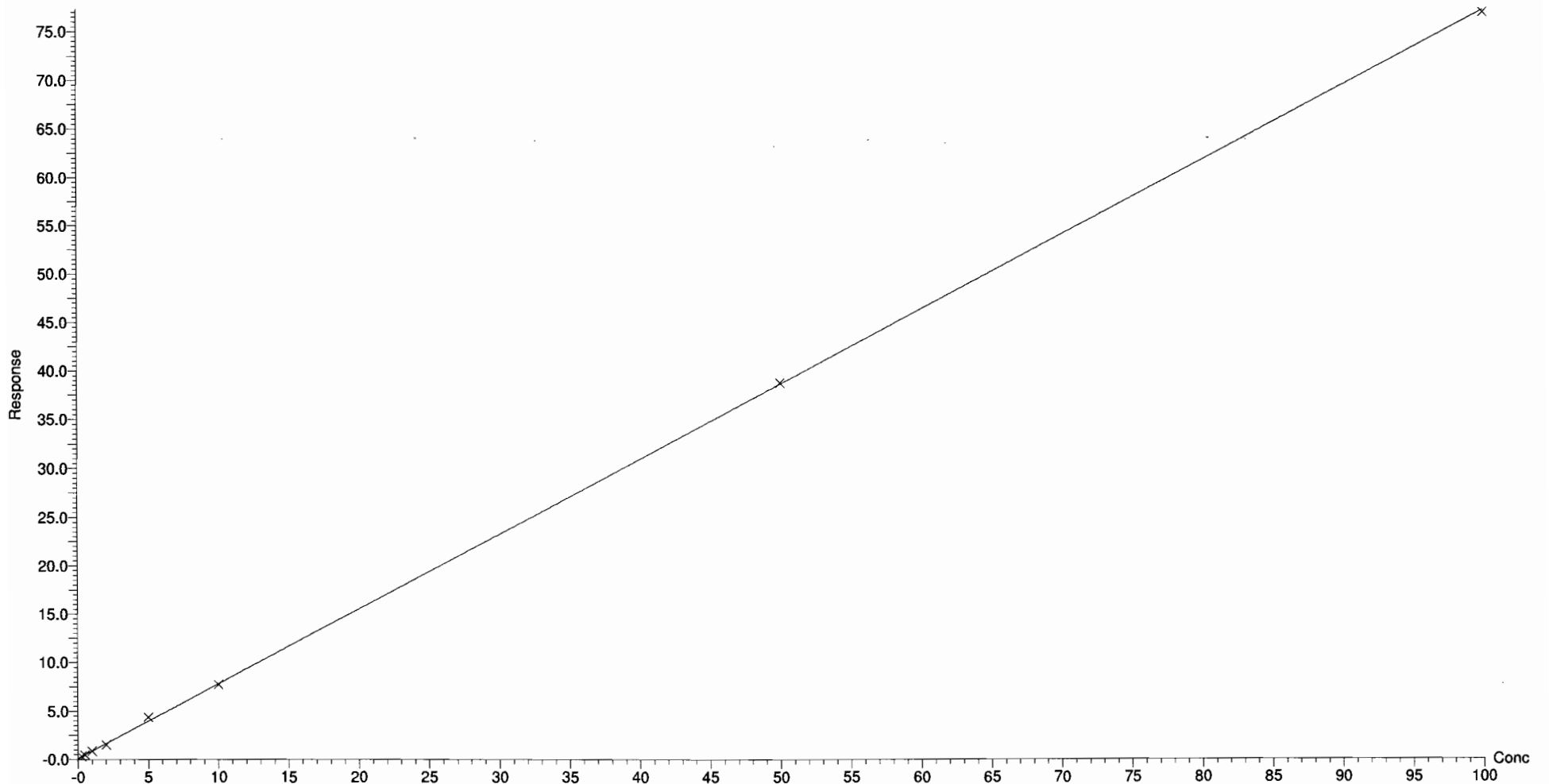
Compound name: PFDA

Correlation coefficient: $r = 0.999769$, $r^2 = 0.999538$

Calibration curve: $0.772016 * x + 0.0862237$

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-CRV.qld

Last Altered: Wednesday, April 12, 2017 08:39:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 08:48:27 Pacific Daylight Time

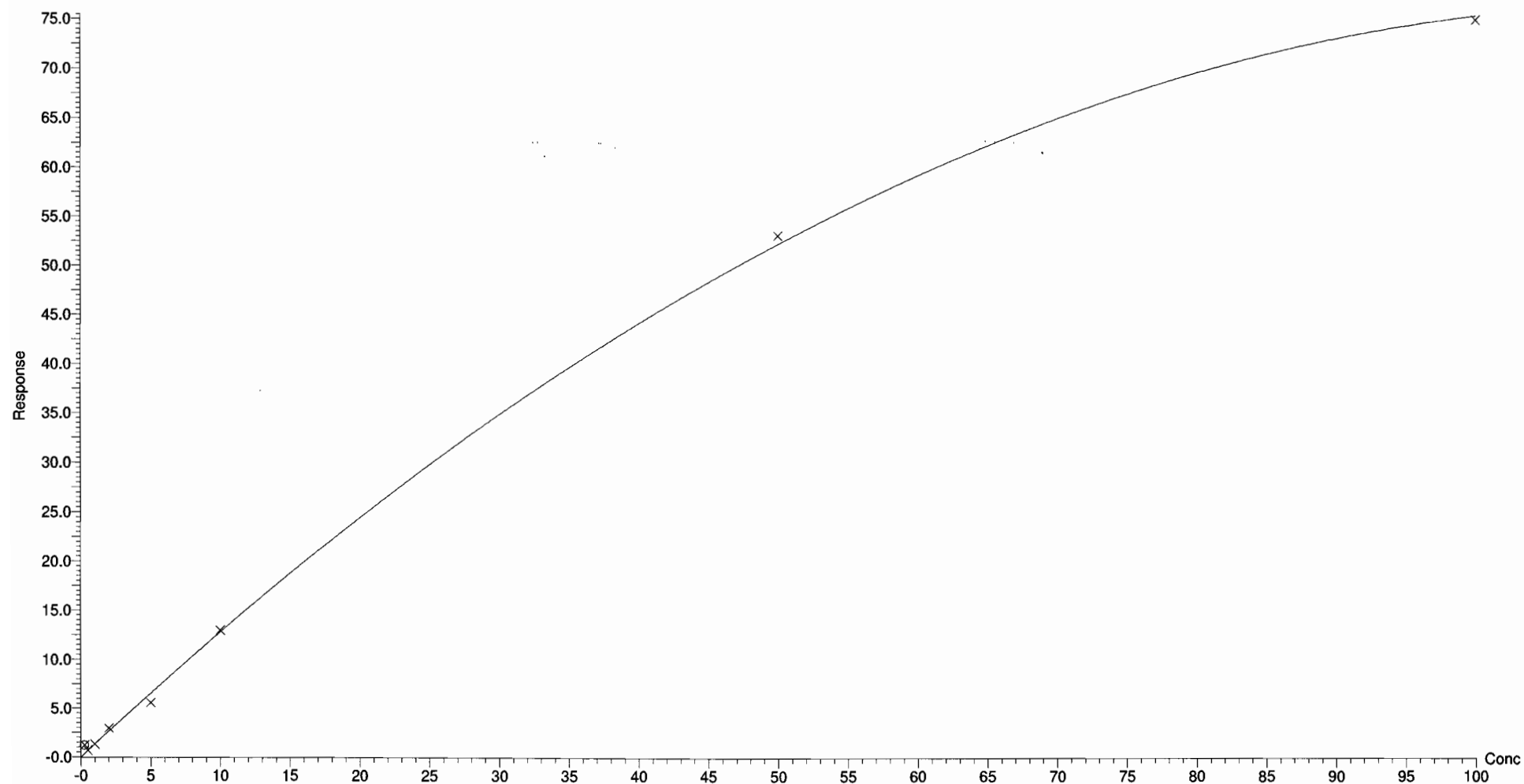
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.998039$

Calibration curve: $-0.00582292 * x^2 + 1.3375 * x + -0.0181159$

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

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



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

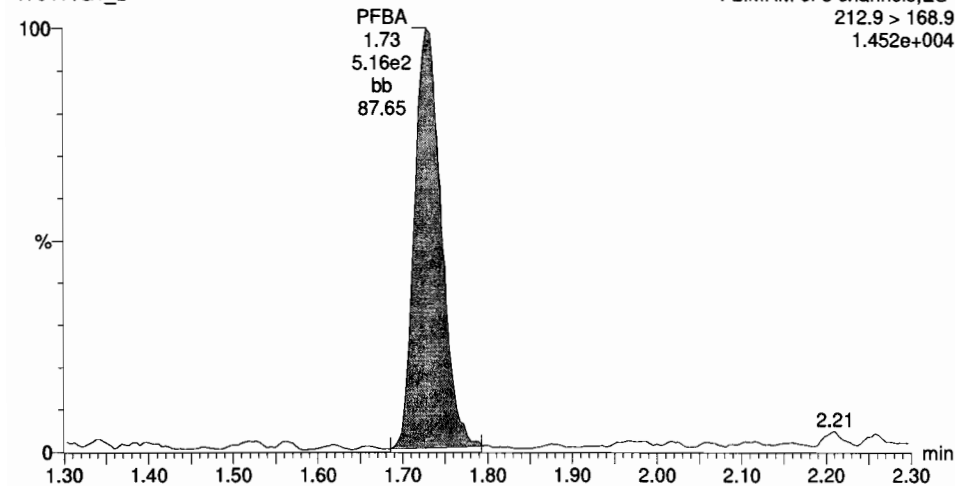
Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09

Calibration: 12 Apr 2017 09:04:28

ID: ST170411G1-1 PFC CS-2 17D0721, Description: PFC CS-2 17D0721 A, Name: 170411G1_2, Date: 11-Apr-2017, Time: 11:43:35, Instrument: , Lab: , User:

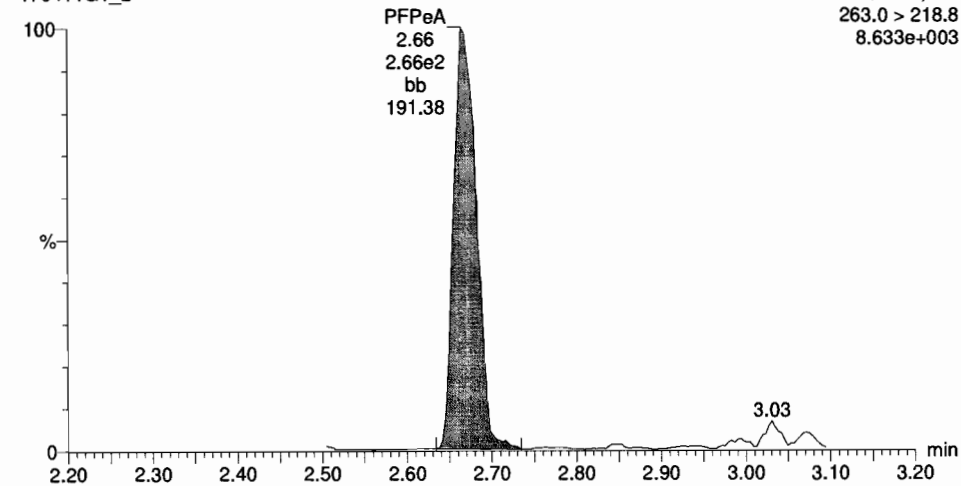
PFBA

170411G1_2



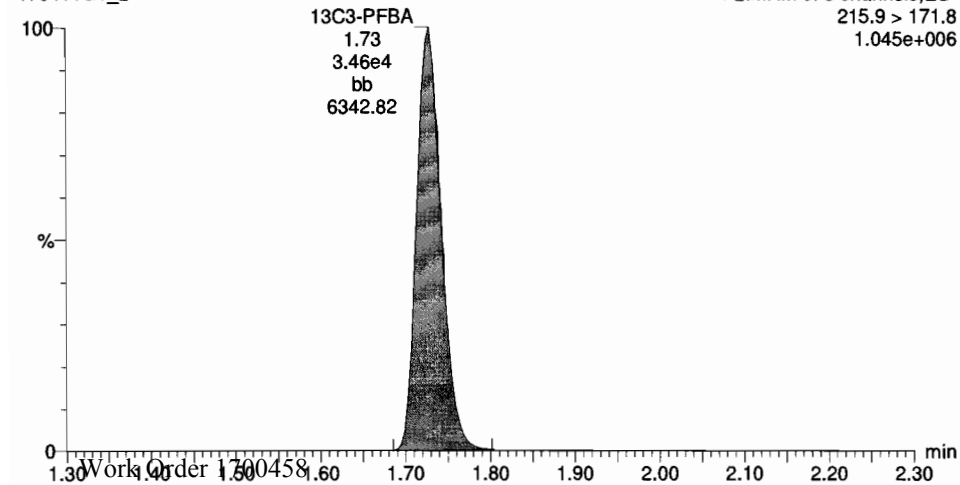
PFPeA

170411G1_2



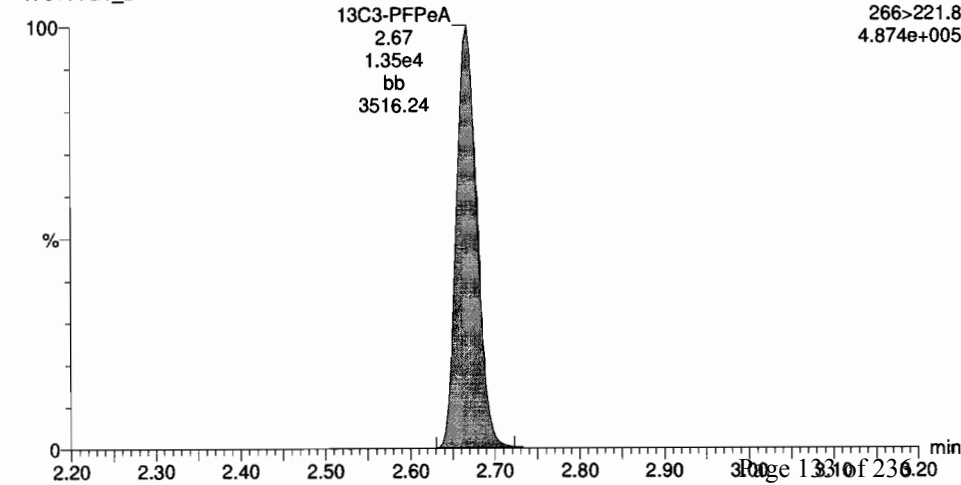
13C3-PFBA

170411G1_2



13C3-PFPeA

170411G1_2



Dataset: Untitled

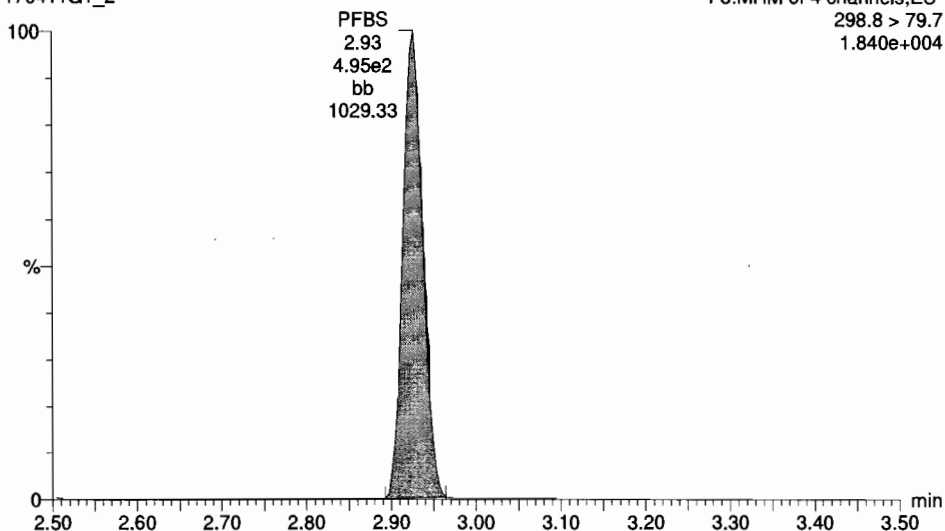
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-1 PFC CS-2 17D0721, Description: PFC CS-2 17D0721 A, Name: 170411G1_2, Date: 11-Apr-2017, Time: 11:43:35, Instrument: , Lab: , User:

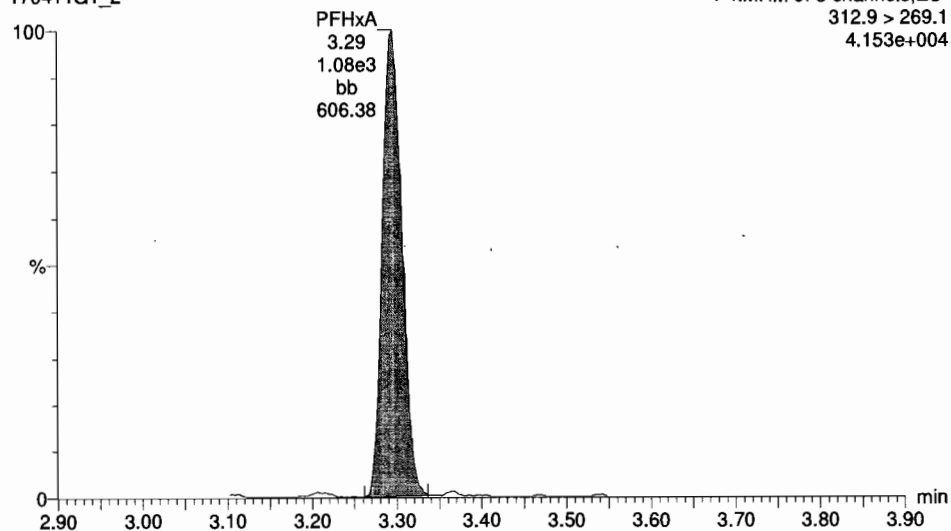
Total PFBS

170411G1_2



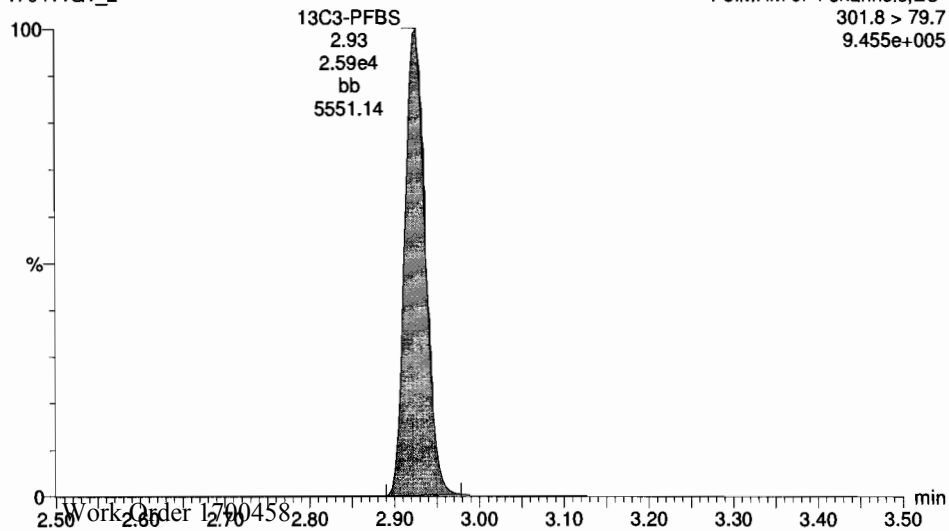
PFHxA

170411G1_2



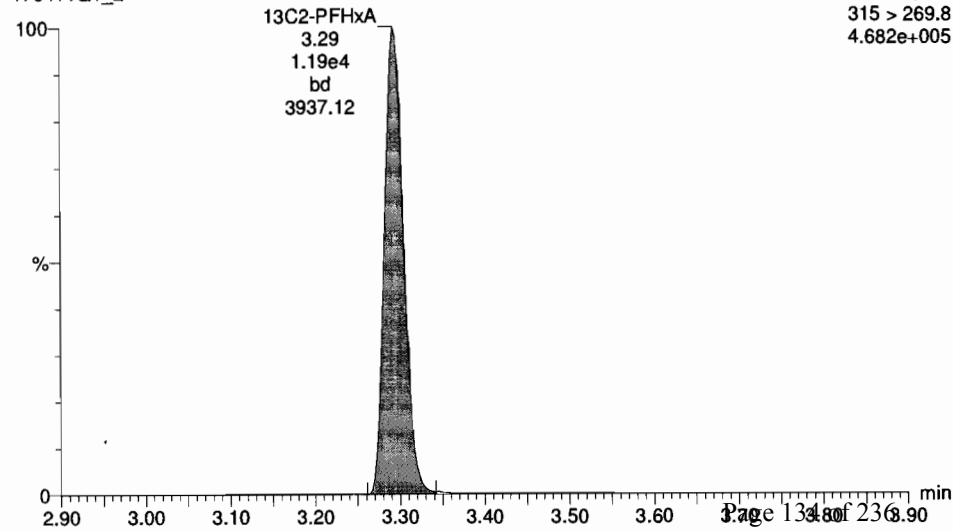
13C3-PFBS

170411G1_2



13C2-PFHxA

170411G1_2



Dataset: Untitled

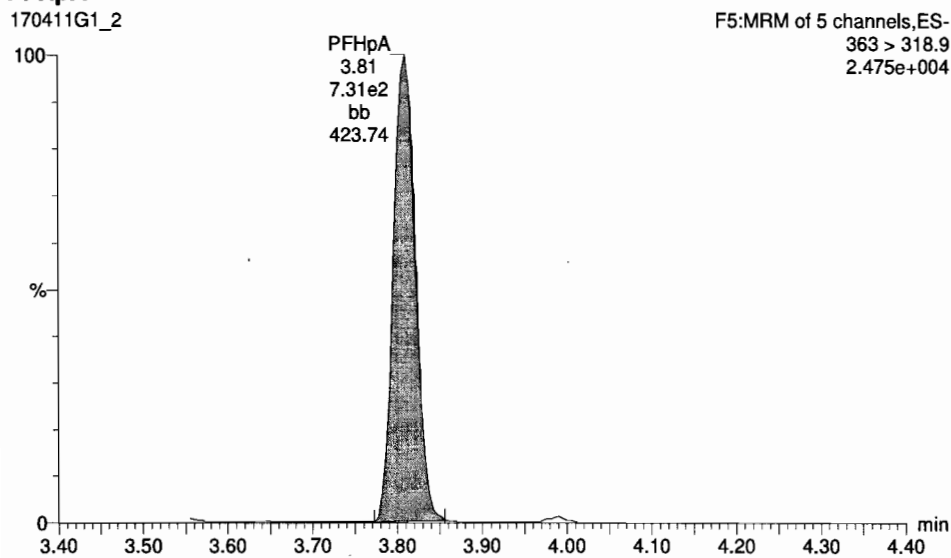
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-1 PFC CS-2 17D0721, Description: PFC CS-2 17D0721 A, Name: 170411G1_2, Date: 11-Apr-2017, Time: 11:43:35, Instrument: , Lab: , User:

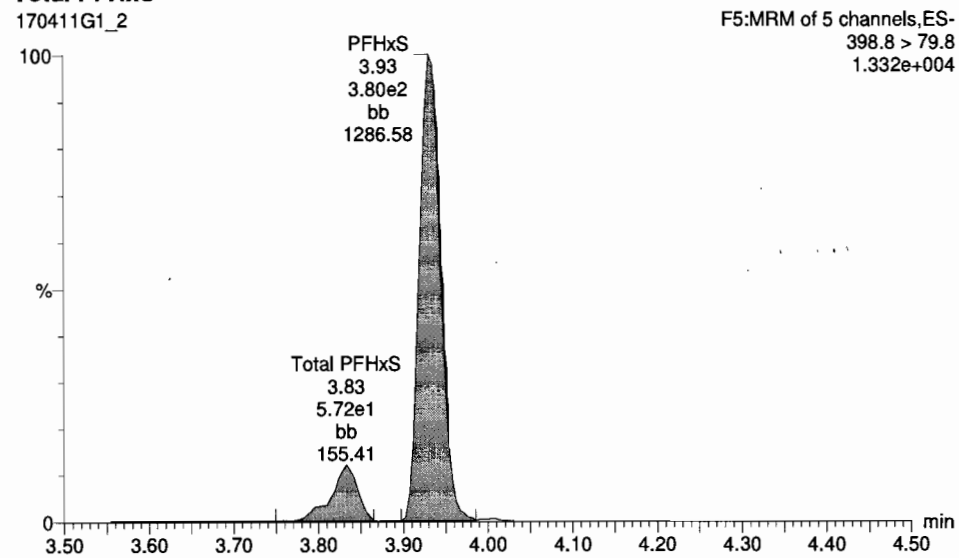
PFHpA

170411G1_2



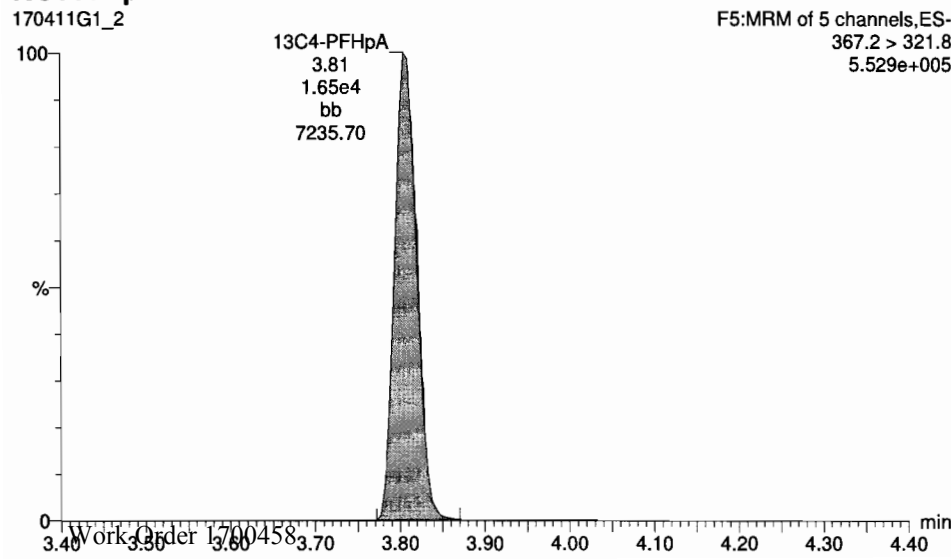
Total PFHxS

170411G1_2



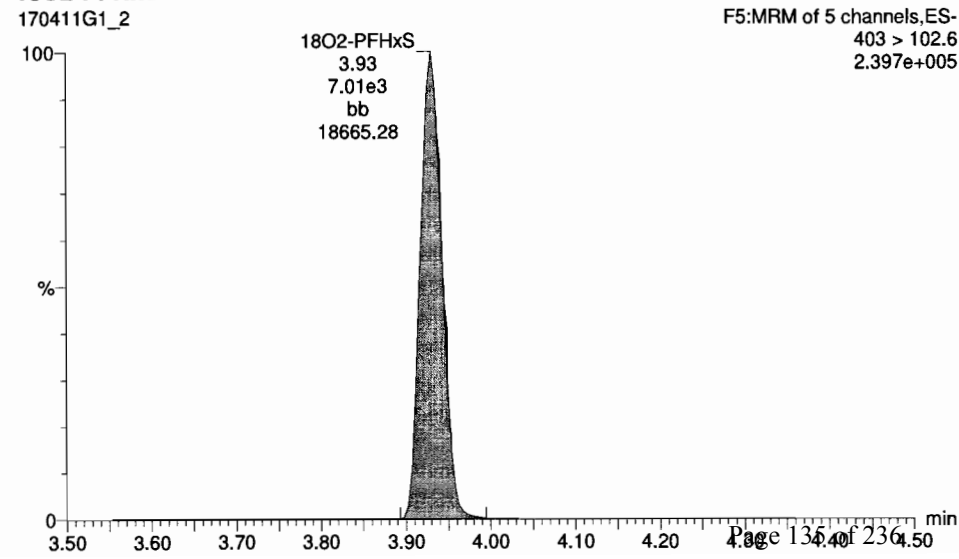
13C4-PFHpA

170411G1_2



18O2-PFHxS

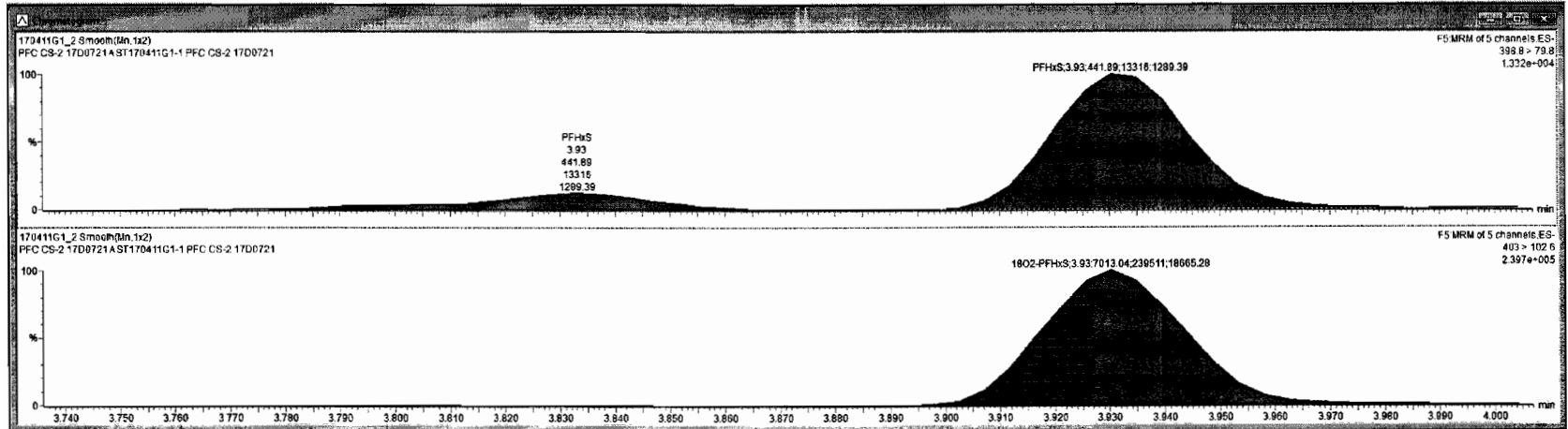
170411G1_2





170411G1_2 ST170411G1-1 PFC CS-2 1700721 PFC CS-2 1700721 A

Name	Comp	DL	%Rec	DWPC	Alas (Rel)	RRV	RT	#	RA	YN	RTV	Acq Date	Acq Time	# Channels	D	Sample Year	Factor	SN	Chk File	MOD
1	PFBA	0.2589333	0.0201	103.6	5.22062		1.73	14			1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
2	PFPA	0.27240496	0.0194	109.0	2.64762		2.66	2	15		0.999	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
3	PFBS	0.27719816	0.0103	110.9	4.97762		2.93	3	16		1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
4	PFHA	0.28793517		115.2	1.87863		3.30	4	17		1.001	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
5	PFHA	0.28849233		115.4	7.31562		3.81	5	16		1.001	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
6	PFHA	0.2763226		108.3	2.41562		3.03	6	10		1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
7	8.2 FTS	0.28933078	0.103	115.7	7.82261		4.17	7	21		0.968	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
8	PFOA	0.26678051		106.7	8.98262		4.22	8	21		1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
9	PFpS	0.29103978	0.169	116.4	5.47961		4.31	9	21		1.022	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
10	PPOS	0.28089475	0.0563	112.3	1.62562		4.63	10	22		0.999	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
11	PFNA	0.29702545		118.8	4.59462		4.87	11	23		1.001	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
12	PFOA	0.27189318		108.8	2.70362		4.87	12	24		1.001	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
13	8.2 FTS	0.91511367	0.596	366.0	1.35562		4.84	13	25		0.998	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
14	13C3-PFBA	12.193178	0.06402	97.9	3.45664	1.156	1.73	14	26		1.003	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
15	13C3-PFPA	12.334219	0.08802	98.7	1.35964	0.579	2.67	15	27		0.816	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
16	13C3-PFBS	12.344586	0.06514	98.0	2.60064	0.728	2.93	16	27		0.829	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
17	13C3-PFHA	4.7576561	0.00364	95.2	1.18664	0.860	3.29	17	27		1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
18	13C4-PFPA	13.941714	0.00443	104.3	1.64964	0.961	3.81	18	26		0.968	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
19	1802-PFpS	12.070883	0.00152	96.6	7.81363	0.442	3.93	19	28		1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
20	13C2-8.2 FTS	8.9711044	0.0148	71.8	8.53863	1.982	4.16	20	29		0.990	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
21	13C2-PFOA	11.970591	0.00403	95.8	3.17164	3.233	4.22	21	29		1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO
22	13C8-PFOS	11.349361	0.00305	90.8	7.82163	1.277	4.63	22	30		1.000	11-Apr-17	11:43:35		ST170411G...	PFC CS-2 17007...	1.0	1.00		NO



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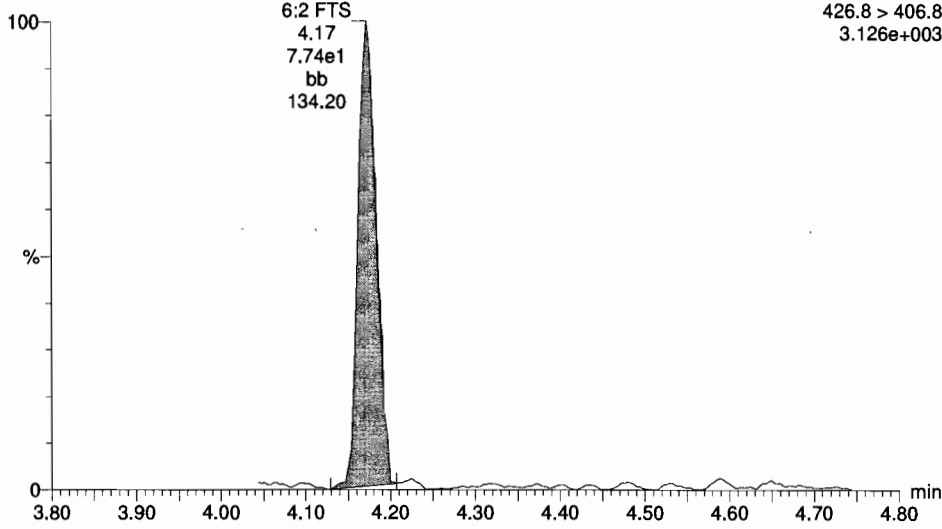
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-1 PFC CS-2 17D0721, Description: PFC CS-2 17D0721 A, Name: 170411G1_2, Date: 11-Apr-2017, Time: 11:43:35, Instrument: , Lab: , User:

6:2 FTS

170411G1_2

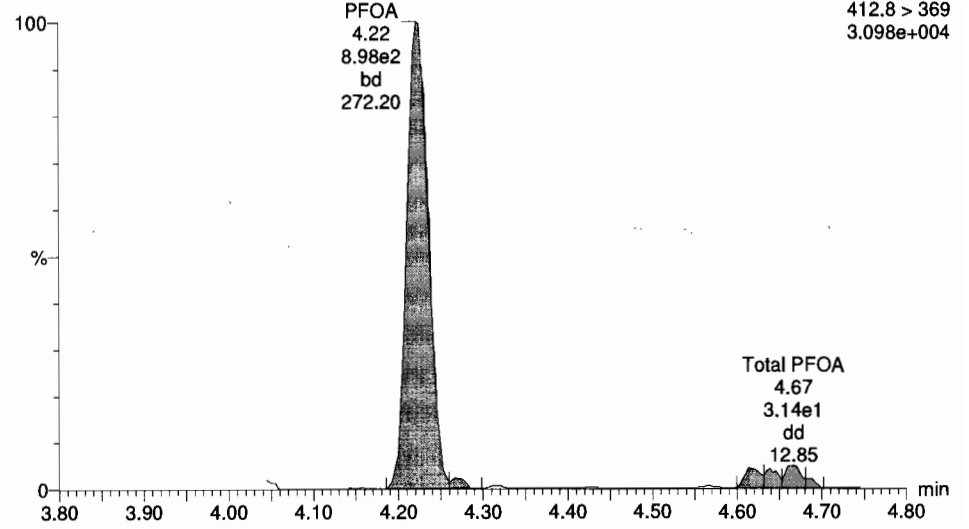
F6:MRM of 14 channels,ES-
426.8 > 406.8
3.126e+003



Total PFOA

170411G1_2

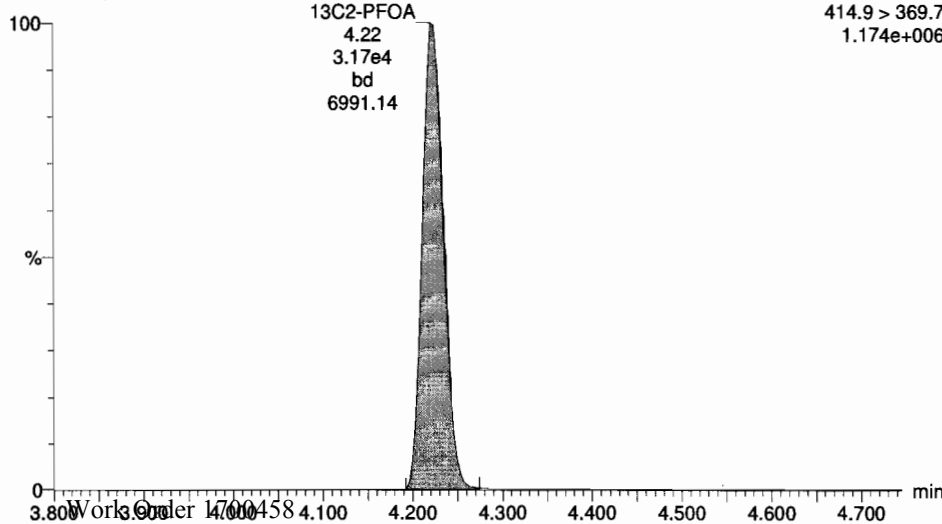
F6:MRM of 14 channels,ES-
412.8 > 369
3.098e+004



13C2-PFOA

170411G1_2

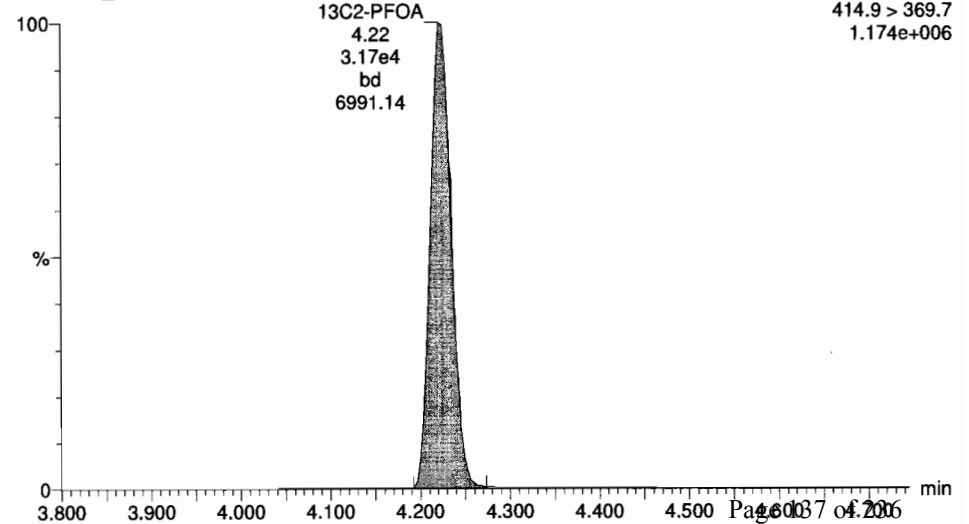
F6:MRM of 14 channels,ES-
414.9 > 369.7
1.174e+006



13C2-PFOA

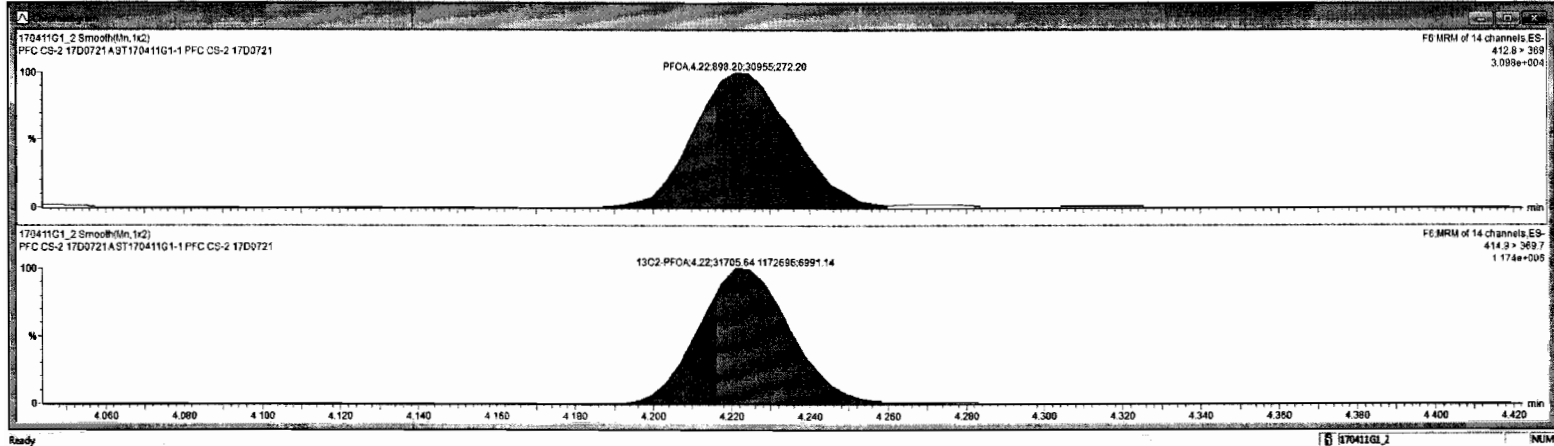
170411G1_2

F6:MRM of 14 channels,ES-
414.9 > 369.7
1.174e+006





Line	Name	Conc.	DL	Units	ExpC	Abs Resp	RF	RI	#	CS	RA	YH	RTI	Acq Date	Acq Time	1* Chk/Node	ID	Sample Text	Factor1	SM	Cal Fm	SECT
1	PFBA	0.2509533	0.0201	100.0		5.220e2	1.73	1	14				1.000	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
2	PFBA	0.2724049	0.0194	100.0		2.847e2	2.66	2	15				0.999	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
3	PFBS	0.27719816	0.0103	110.0		4.877e2	2.93	3	16				1.000	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
4	PFBA	0.28793517	0.0152	115.0		1.076e3	3.38	4	17				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
5	PFBA	0.20649233	0.0154	115.0		7.315e2	3.81	5	18				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
6	PFBA	0.27003326	0.0163	108.0		4.418e2	3.93	6	19				1.000	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
7	PFBA	0.28933078	0.0163	115.0		7.822e2	4.17	7	21				0.998	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
8	PFOA	0.20070583	0.0157	105.0		0.950e2	4.22	8	20				1.000	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
9	PFBS	0.29103978	0.0169	116.0		5.479e2	4.31	9	21				1.022	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
10	PFOA	0.28009475	0.0563	112.0		1.025e2	4.63	10	22				0.999	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
11	PFBA	0.28702545	0.0168	116.0		4.594e2	4.57	11	23				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
12	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
13	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
14	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
15	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
16	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
17	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
18	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
19	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
20	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
21	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO
22	PFOA	0.27189318	0.0168	108.0		2.703e2	4.87	12	24				1.001	11-Apr-17	11:43:35	ST170411G	PFCS-2 17D0721	1.0	1.00			NO



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

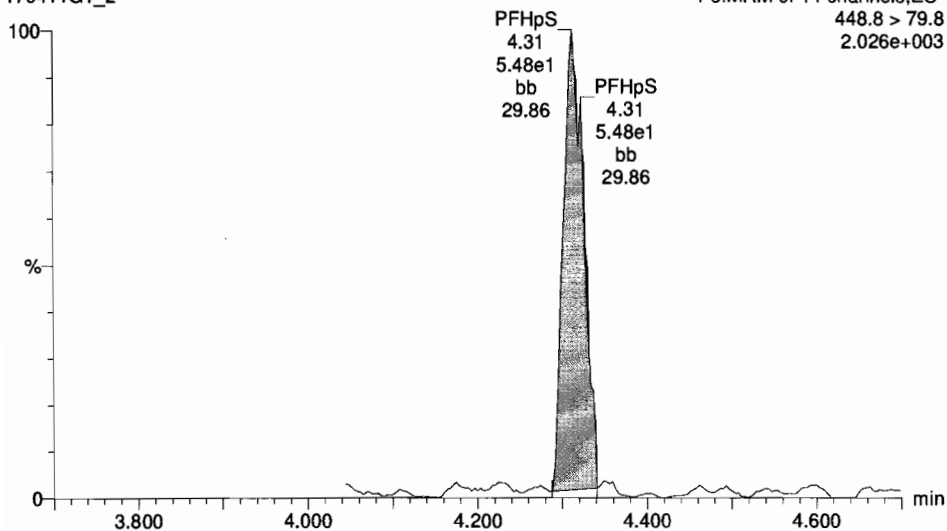
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PFHpS

170411G1_2

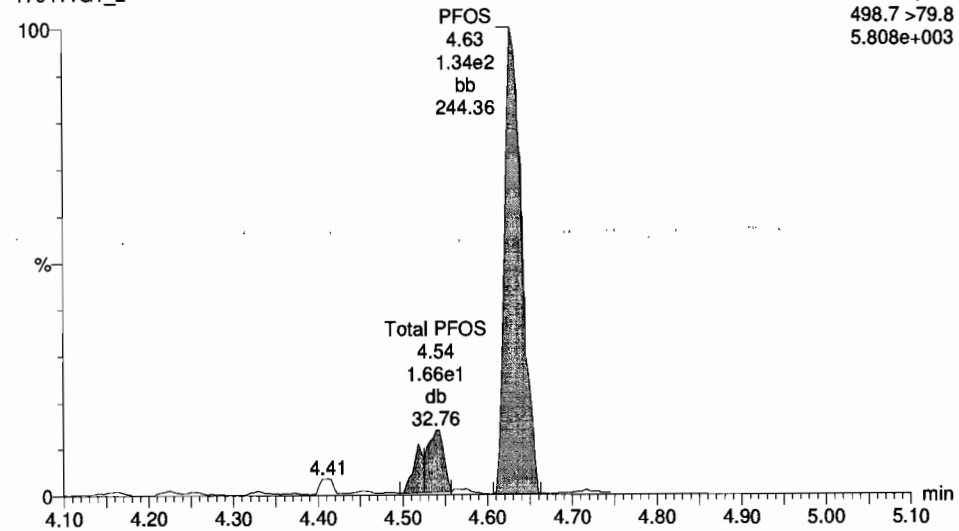
F6:MRM of 14 channels,ES-
448.8 > 79.8
2.026e+003



Total PFOS

170411G1_2

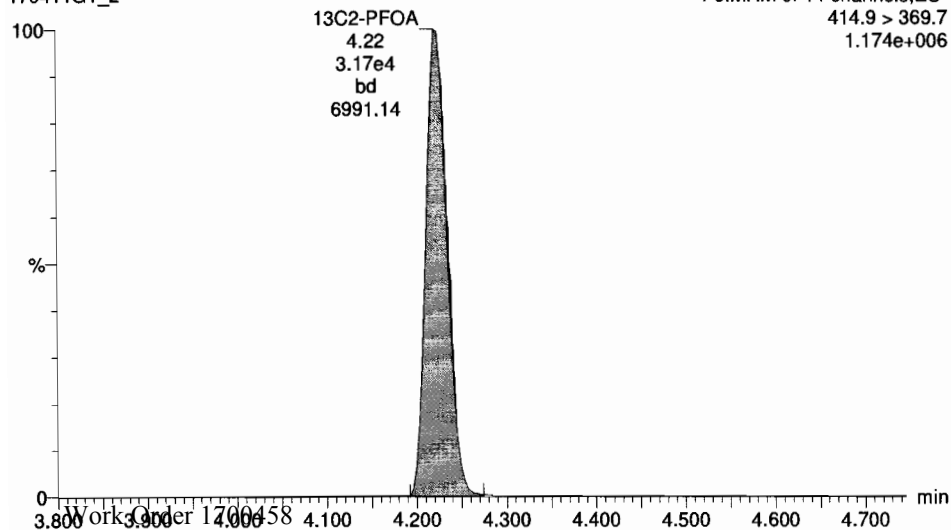
F6:MRM of 14 channels,ES-
498.7 > 79.8
5.808e+003



13C2-PFOA

170411G1_2

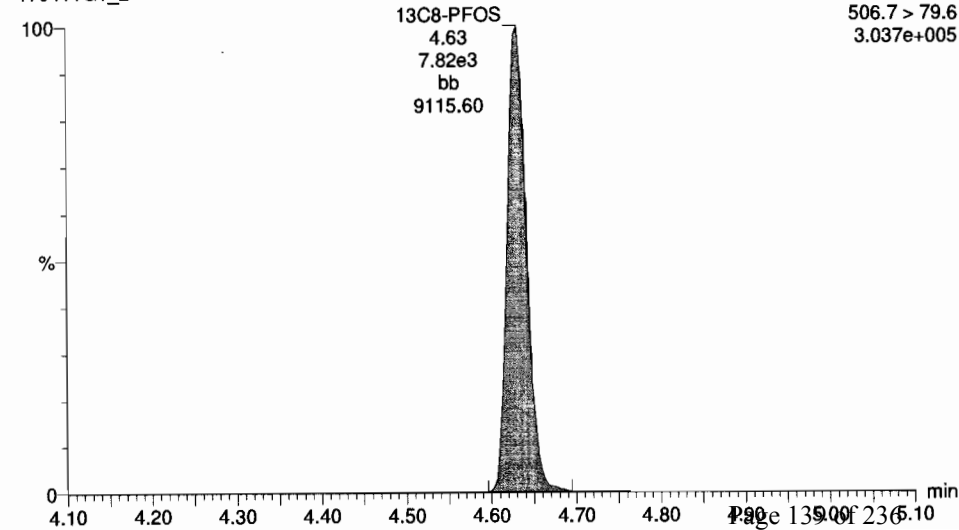
F6:MRM of 14 channels,ES-
414.9 > 369.7
1.174e+006



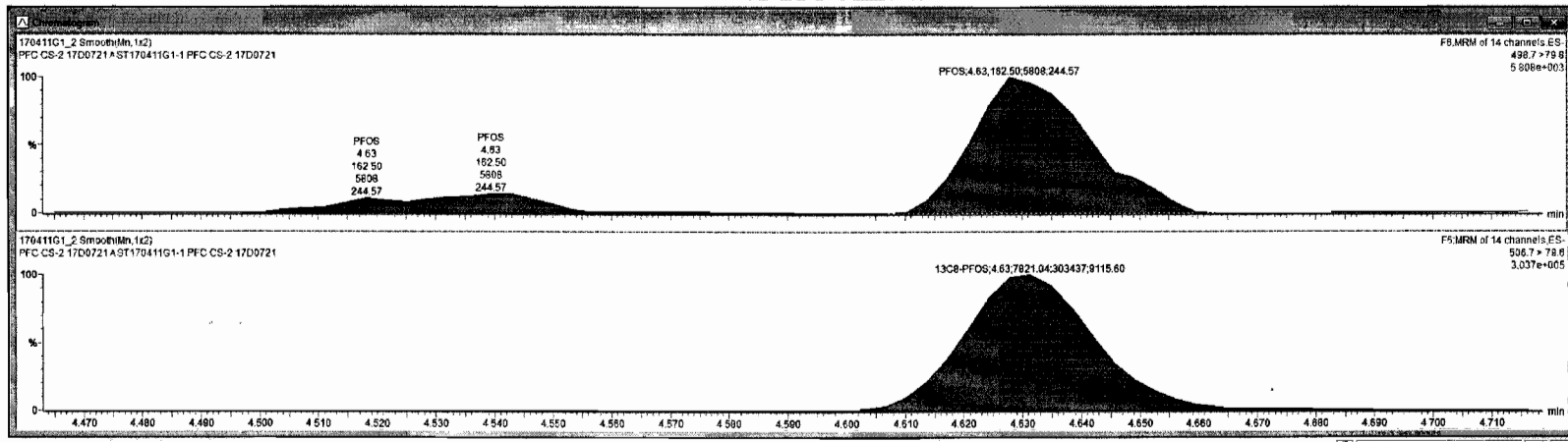
13C8-PFOS

170411G1_2

F6:MRM of 14 channels,ES-
506.7 > 79.6
3.037e+005



#	Name	Conc	DL	Mtng	EMPC	Abs Resp	RRF	RT	#	IS#	RA	VNI	RRF	AcqDate	AcqTime	*#	ChirNoise	D	Sample Test	Factor1	Err	CalFile	MDL
1	PFBA	0.25896333	0.0201	103.6		5.220e2		1.73	1	14			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
2	PFPeA	0.27240496	0.0194	109.0		2.647e2		2.66	2	15			0.999	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
3	PFBS	0.27719616	0.0103	110.9		4.977e2		2.93	3	16			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
4	PFHxA	0.28793517		115.2		1.079e3		3.30	4	17			1.001	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
5	PFHxA	0.28849233		115.4		7.315e2		3.81	5	18			1.001	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
6	PFHxS	0.27963326		108.3		4.419e2		3.93	6	19			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
7	6:2 PFS	0.28933078	0.103	115.7		7.622e1		4.17	7	21			0.988	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
8	PFOA	0.26679051		106.7		8.982e2		4.22	8	21			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
9	PFHpS	0.29103078	0.169	116.4		5.479e1		4.31	9	21			1.022	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
10	PFOS	0.29200075	0.2550	112.3		1.625e2		4.63	10	22			0.999	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
11	PFMA	0.29702545		118.0		4.594e2		4.57	11	23			1.001	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
12	PFOA	0.27189918		108.0		2.705e2		4.87	12	24			1.001	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
13	6:2 PFS	0.91511267	0.590	368.0		1.355e2		4.64	13	25			0.998	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
14	13C2-PFBA	12.193178	0.00402	97.5		3.486e4	1.168	1.73	14	26			1.003	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
15	13C2-PFPeA	12.334219	0.00202	98.7		1.368e4	0.379	2.67	15	27			0.810	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
16	13C2-PFBS	12.344596	0.00514	98.8		2.689e4	0.728	2.93	16	27			0.889	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
17	13C2-PFHxA	4.7576061	0.00304	95.2		1.188e4	0.860	3.29	17	27			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
18	13C2-PFHxS	13.041714	0.00443	104.3		1.649e4	0.961	3.81	18	28			0.968	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
19	18O2-PFHxS	12.070683	0.00162	96.6		7.015e3	0.442	3.93	19	28			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
20	13C2-6:2 PFS	6.9711044	0.0148	71.8		8.538e3	1.162	4.18	20	29			0.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
21	13C2-PFOA	11.870591	0.00403	95.6		3.171e4	3.233	4.22	21	29			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO
22	13C2-PFOS	11.349361	0.00305	90.0		7.821e3	1.277	4.63	22	30			1.000	11-Apr-17	11:43:35			ST170411G...	PFC CS-2 17D07...	1.0	1.00		NO



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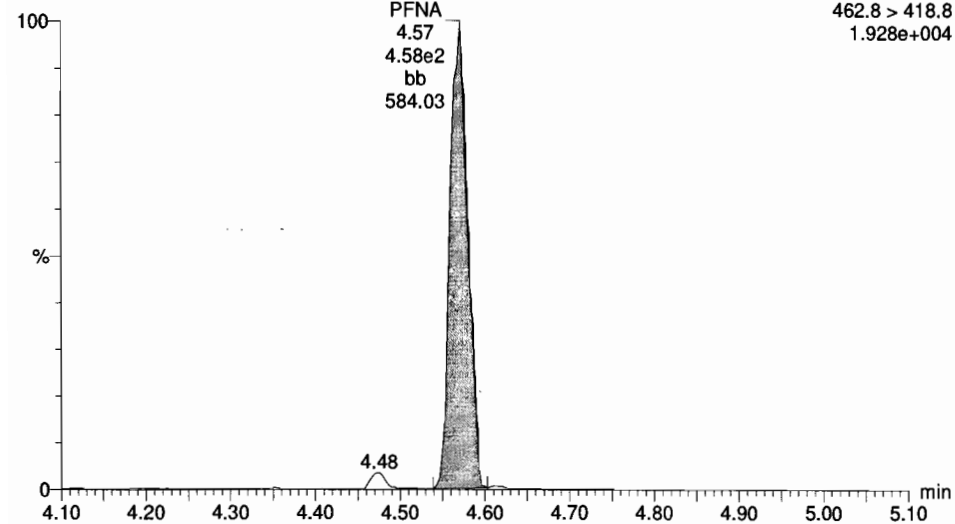
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-1 PFC CS-2 17D0721, Description: PFC CS-2 17D0721 A, Name: 170411G1_2, Date: 11-Apr-2017, Time: 11:43:35, Instrument: , Lab: , User:

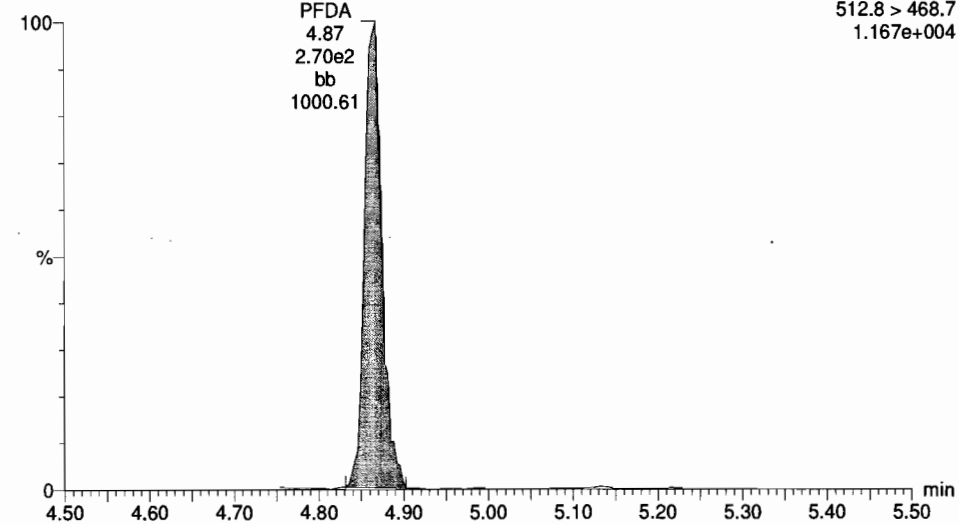
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170411G1_2



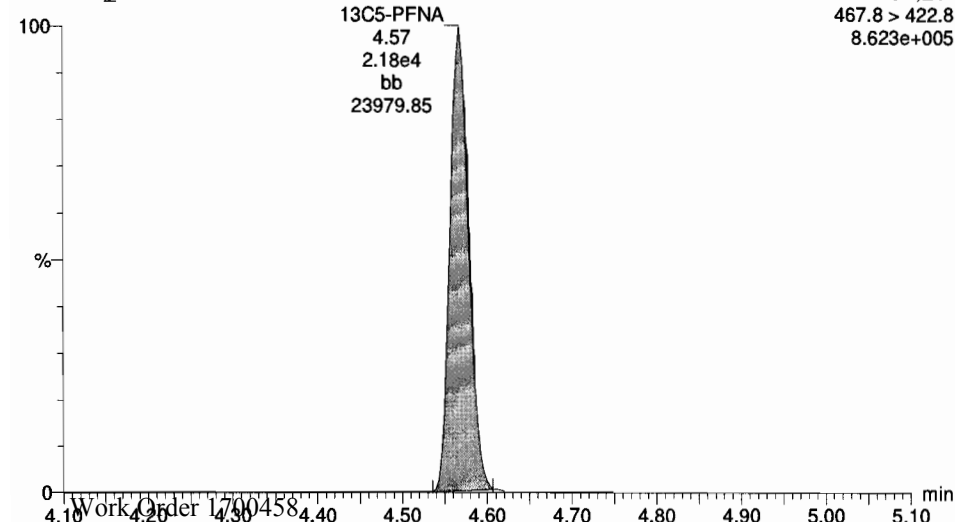
PFDA

170411G1_2



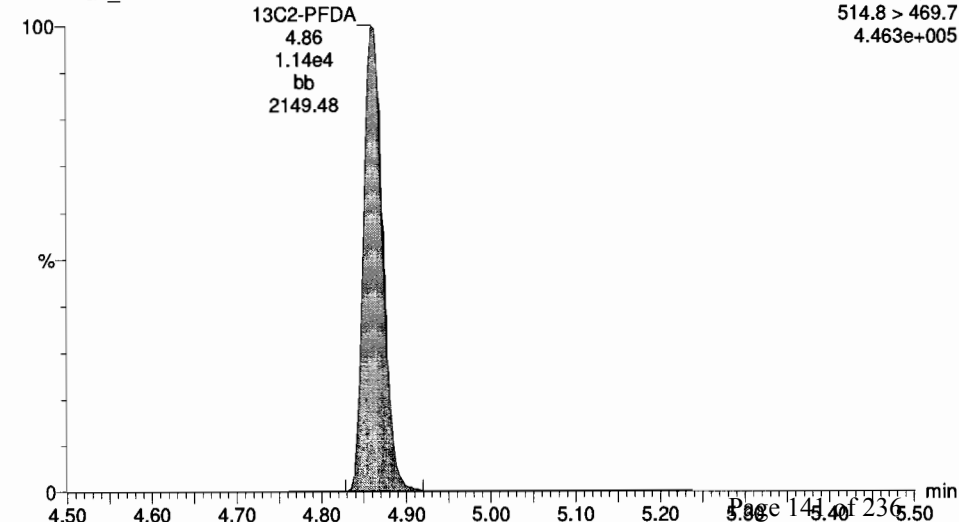
13C5-PFNA

170411G1_2



13C2-PFDA

170411G1_2

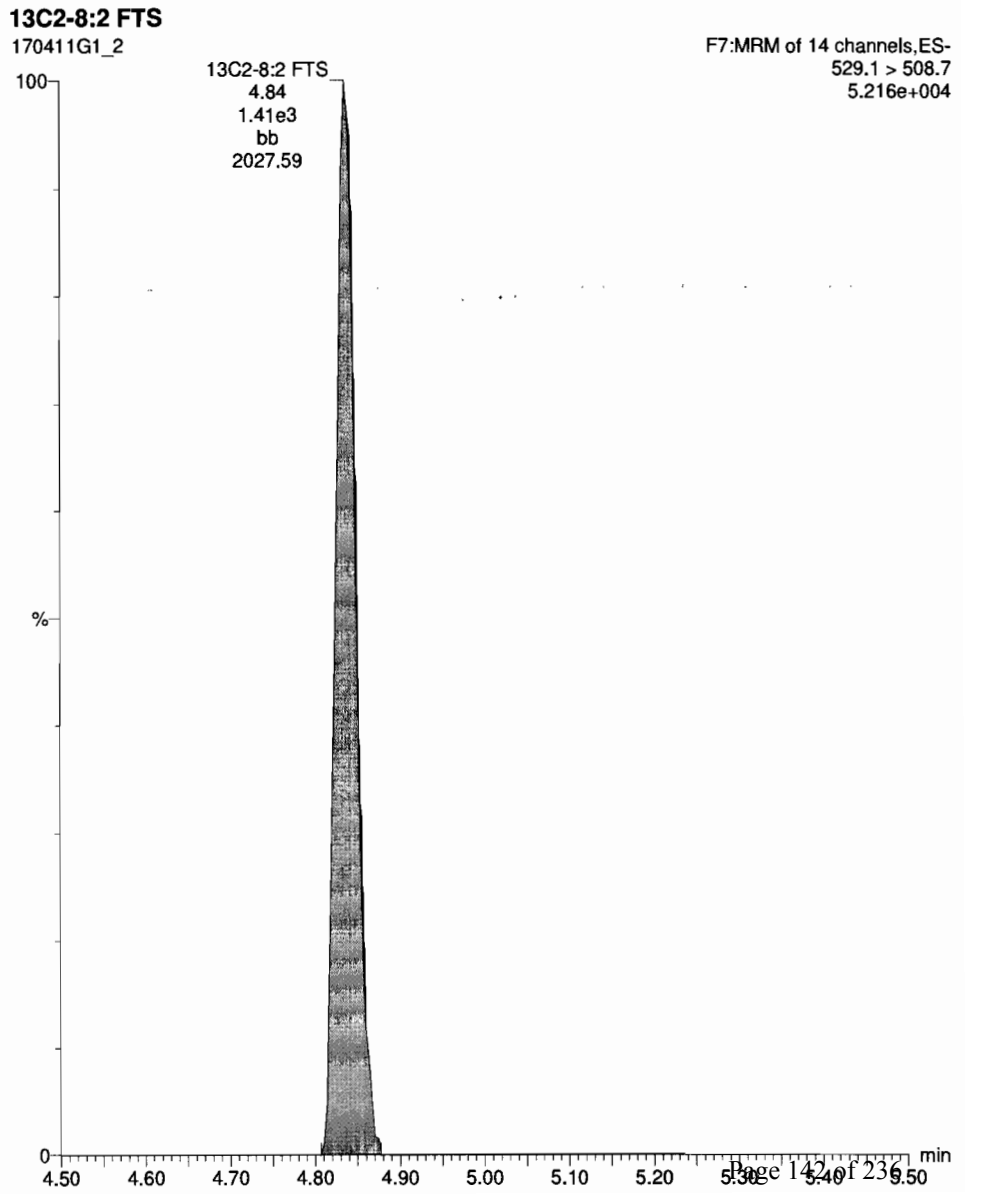
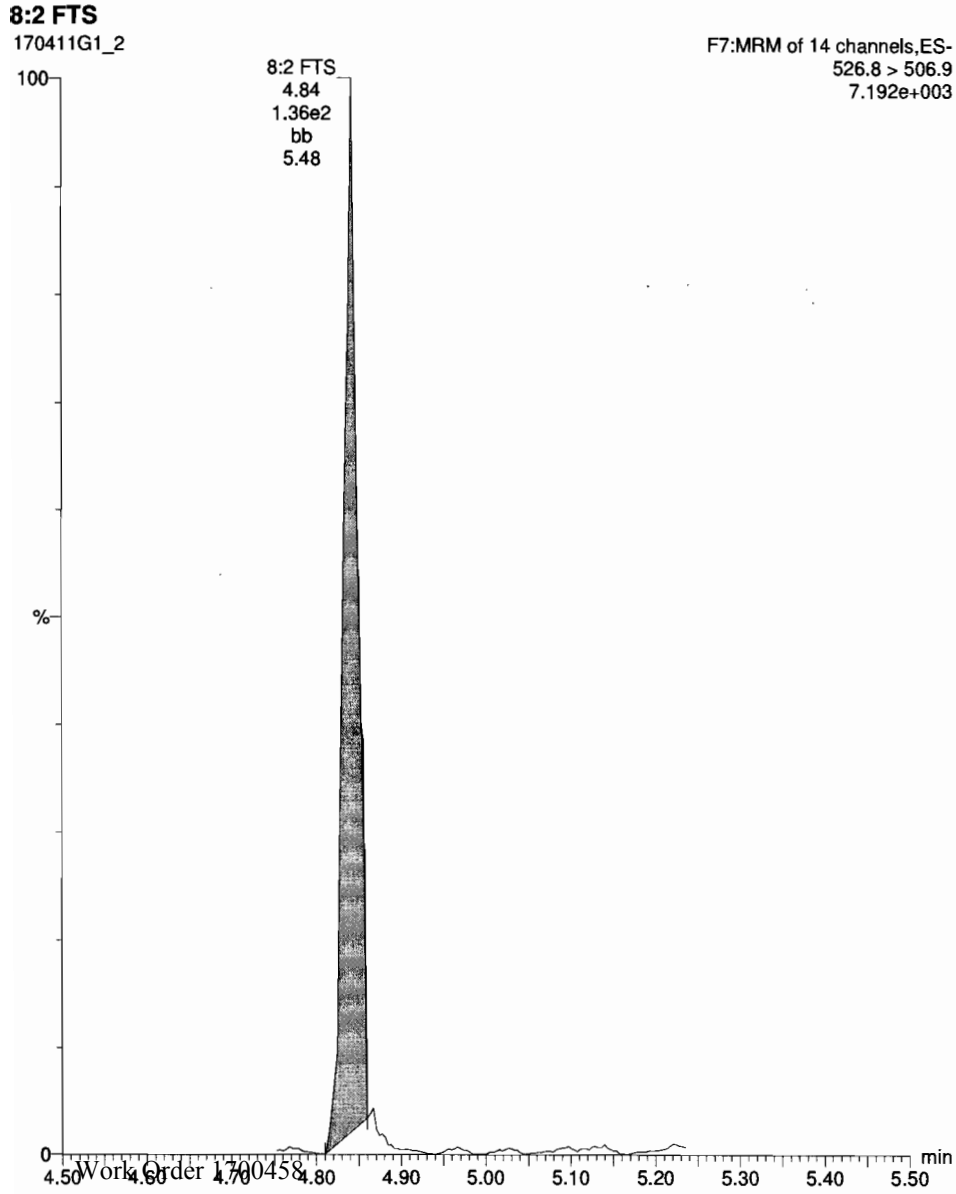


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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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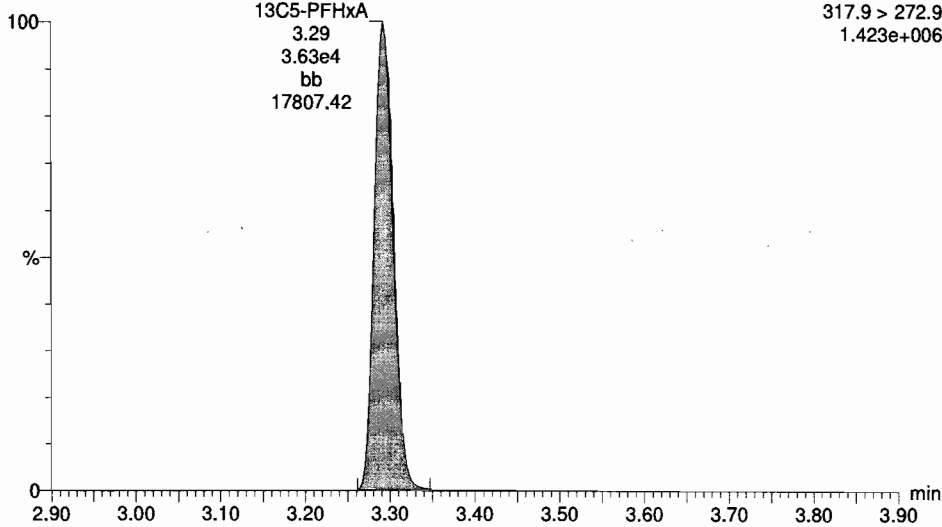
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13C5-PFHxA

170411G1_2

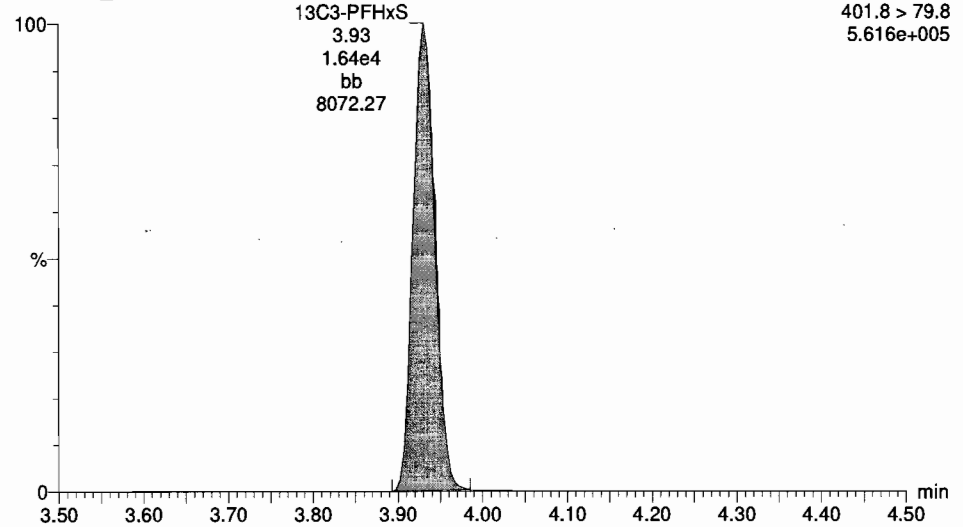
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317.9 > 272.9
1.423e+006



13C3-PFHxS

170411G1_2

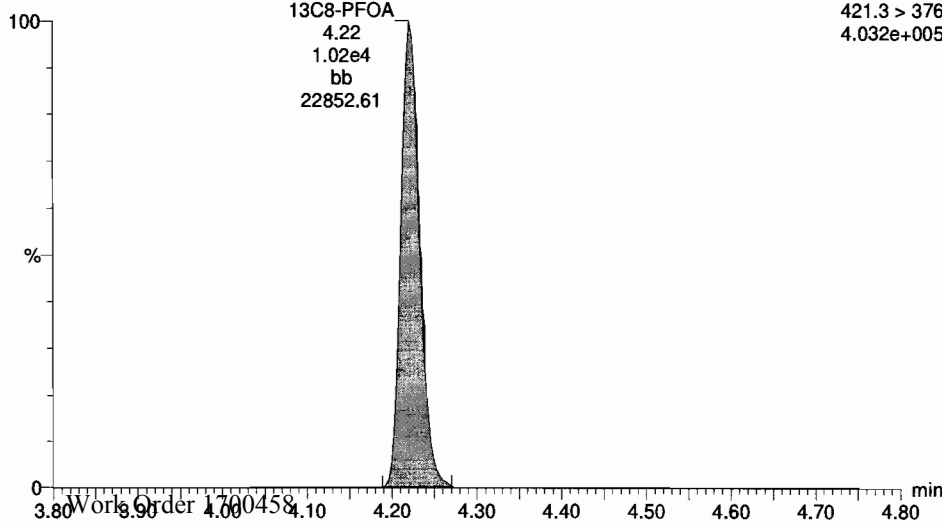
F5:MRM of 5 channels,ES-
401.8 > 79.8
5.616e+005



13C8-PFOA

170411G1_2

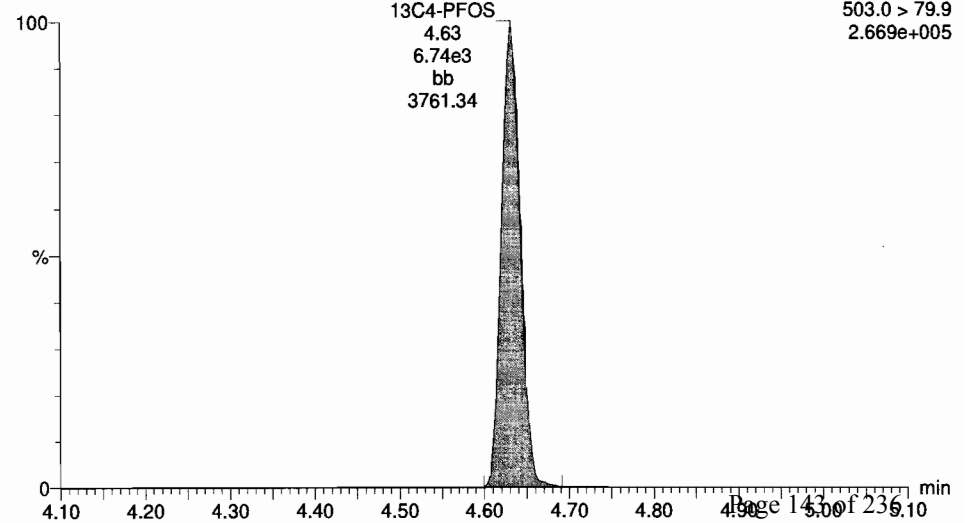
F6:MRM of 14 channels,ES-
421.3 > 376
4.032e+005



13C4-PFOS

170411G1_2

F6:MRM of 14 channels,ES-
503.0 > 79.9
2.669e+005



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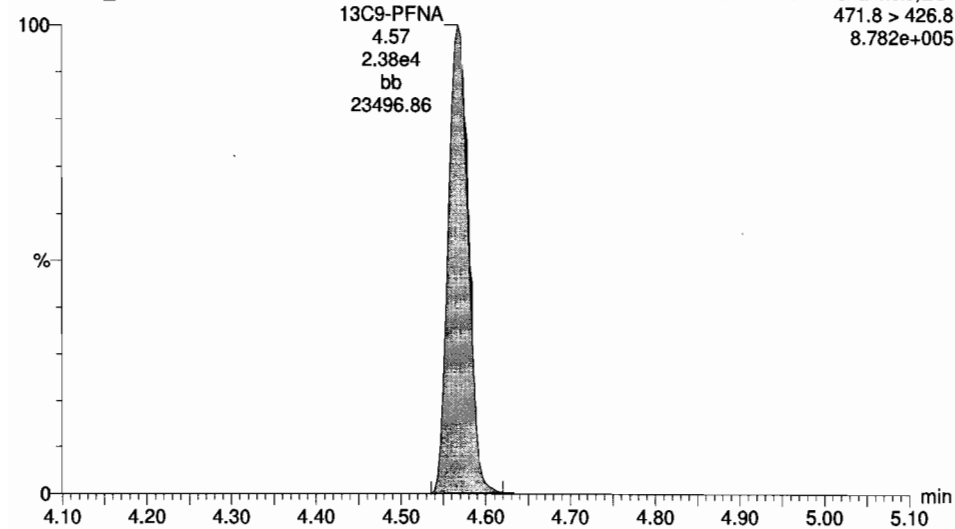
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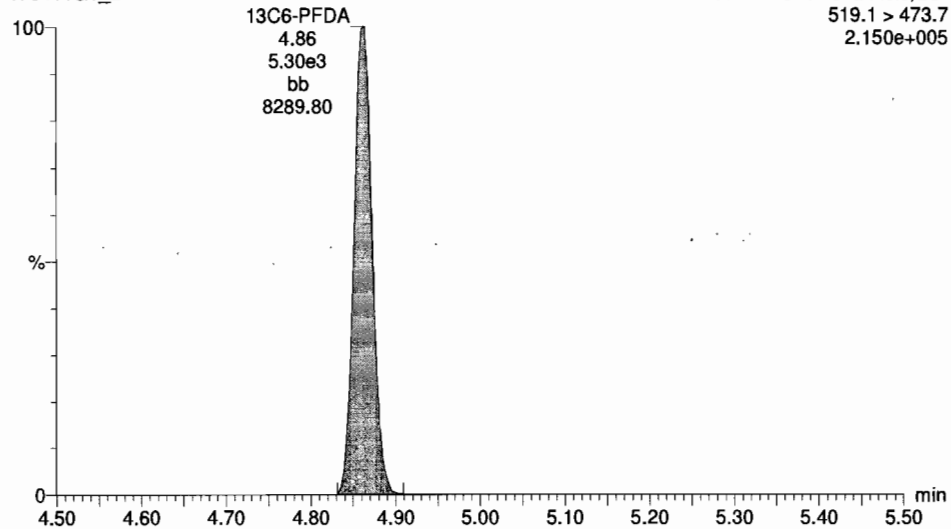
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13C6-PFDA

170411G1_2



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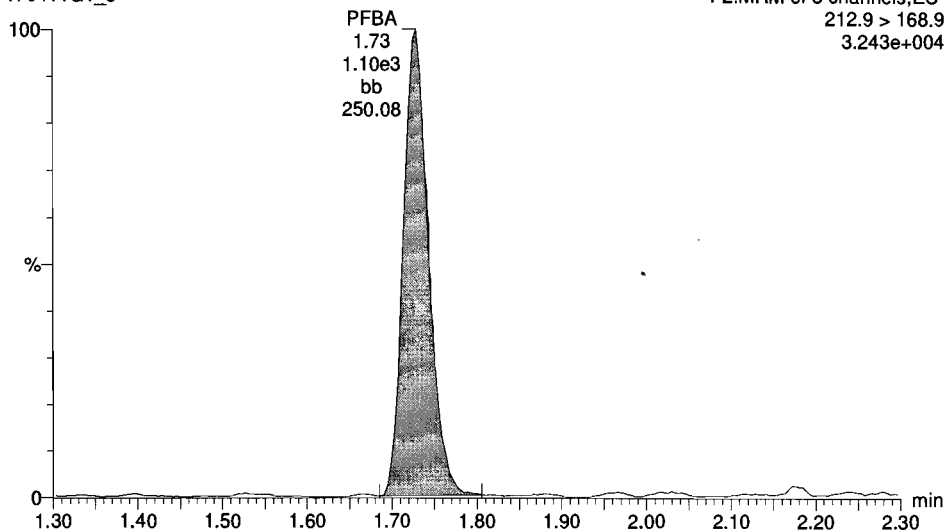
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PFBA

170411G1_3

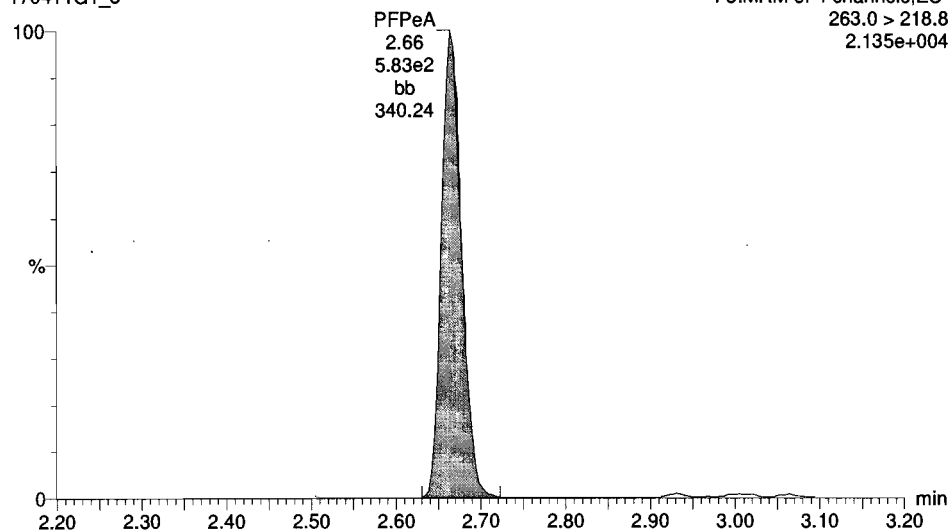
F2:MRM of 3 channels,ES-
212.9 > 168.9
3.243e+004



PFPeA

170411G1_3

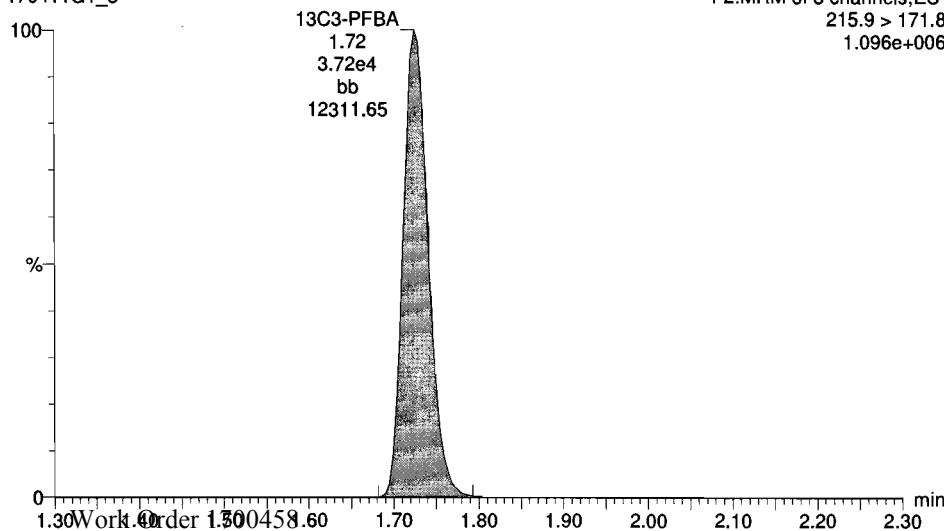
F3:MRM of 4 channels,ES-
263.0 > 218.8
2.135e+004



13C3-PFBA

170411G1_3

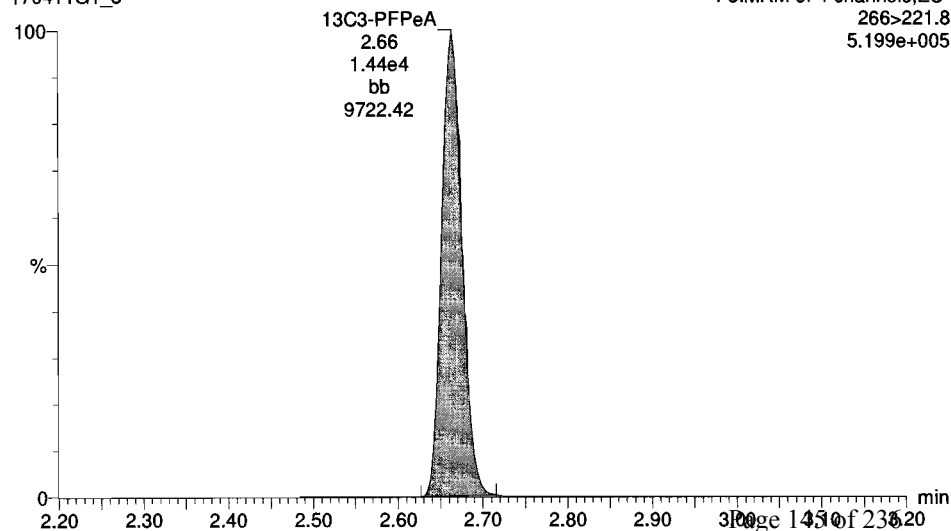
F2:MRM of 3 channels,ES-
215.9 > 171.8
1.096e+006



13C3-PFPeA

170411G1_3

F3:MRM of 4 channels,ES-
266>221.8
5.199e+005



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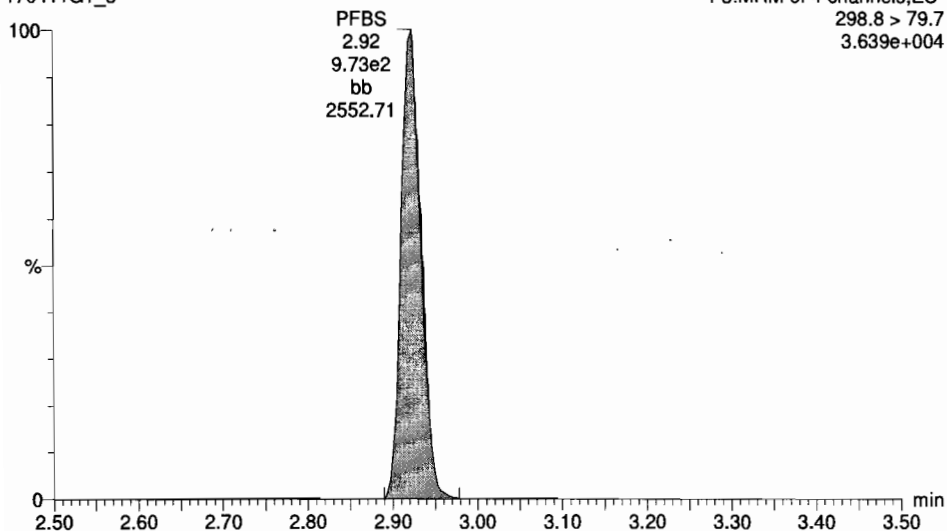
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-2 PFC CS-1 17D0722, Description: PFC CS-1 17D0722 A, Name: 170411G1_3, Date: 11-Apr-2017, Time: 11:56:09, Instrument: , Lab: , User:

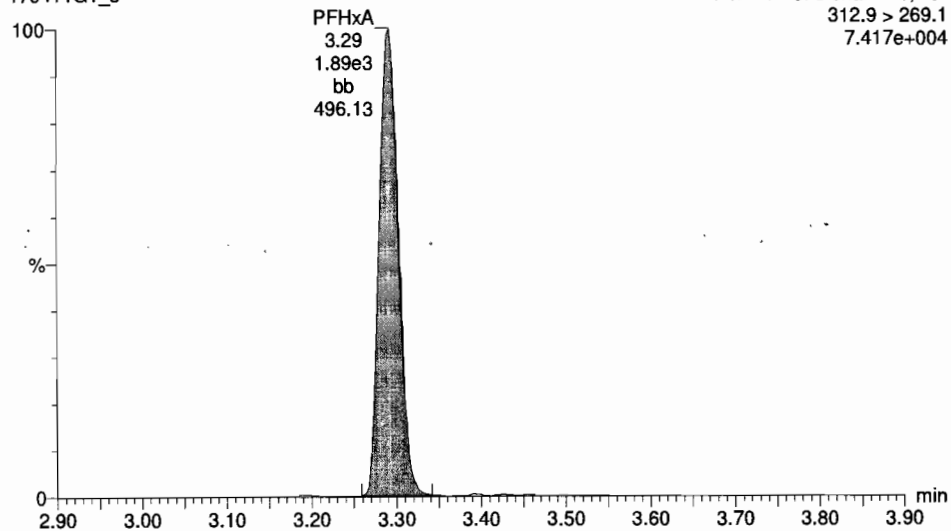
Total PFBS

170411G1_3



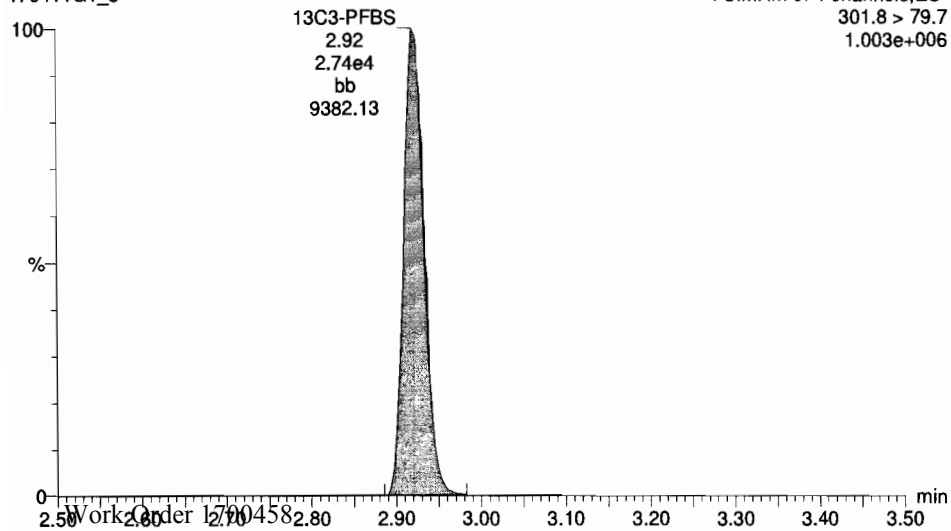
PFHxA

170411G1_3



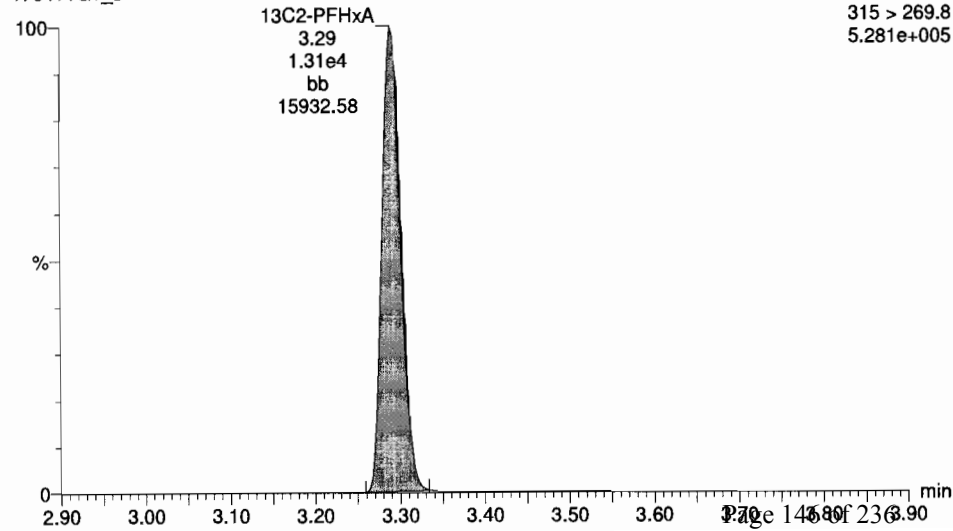
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170411G1_3



13C2-PFHxA

170411G1_3



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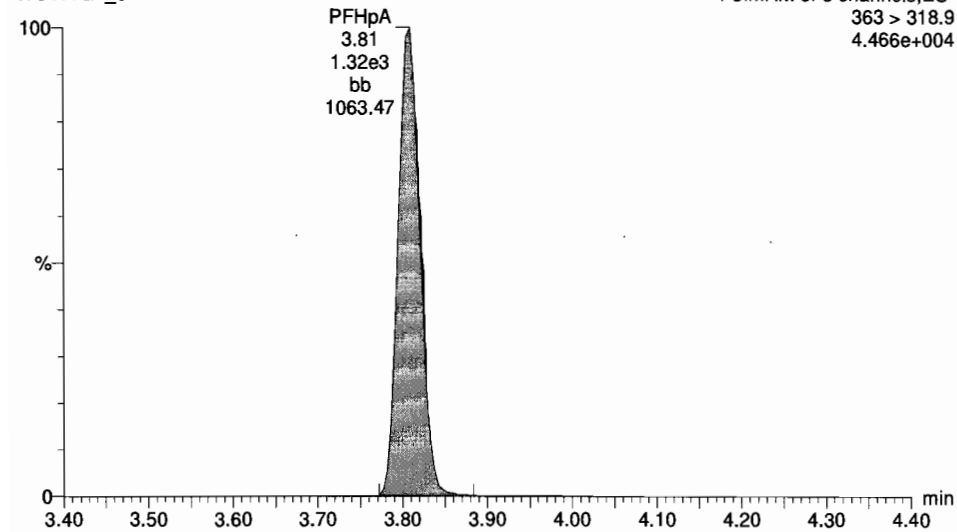
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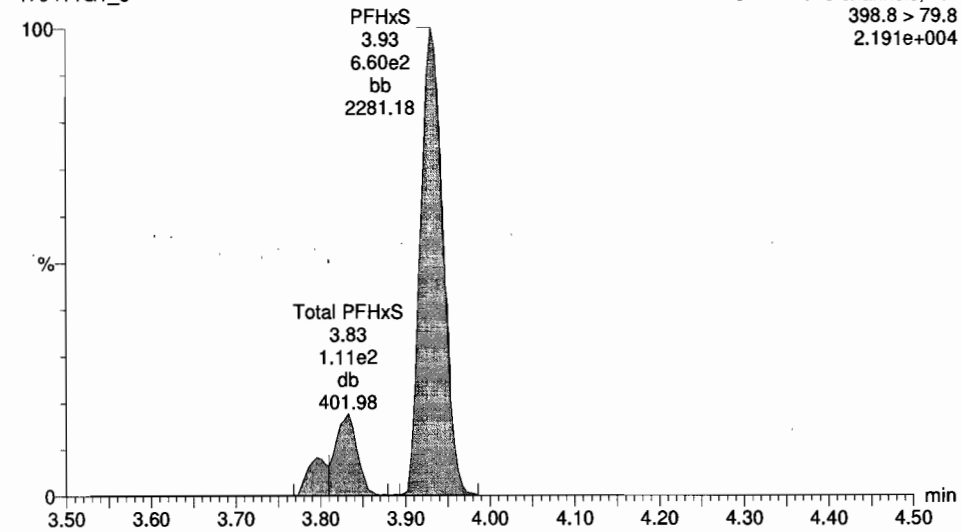
PFHpA

170411G1_3



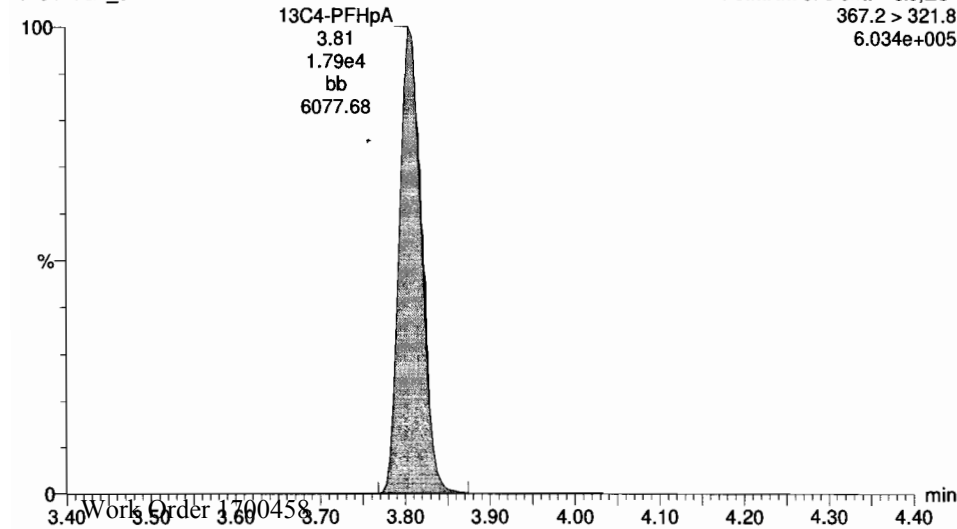
Total PFHxS

170411G1_3



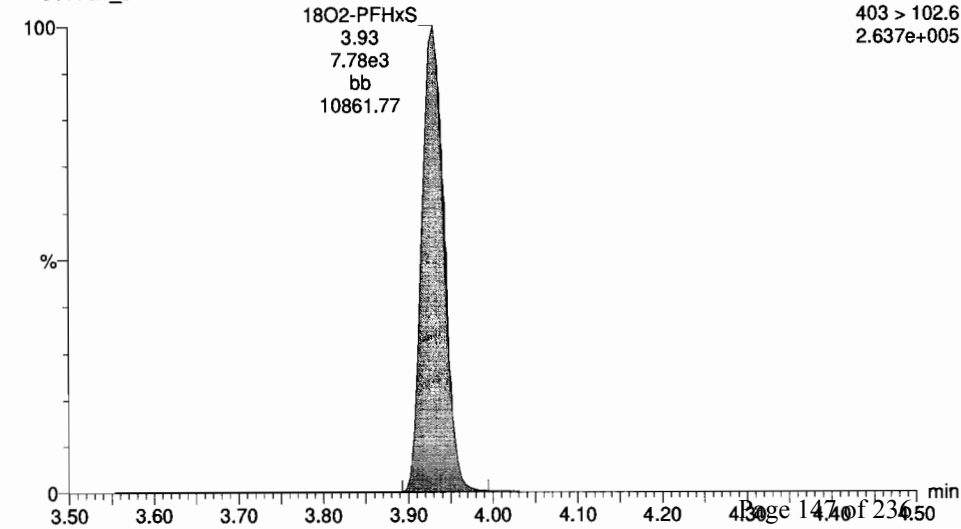
13C4-PFHpA

170411G1_3



18O2-PFHxS

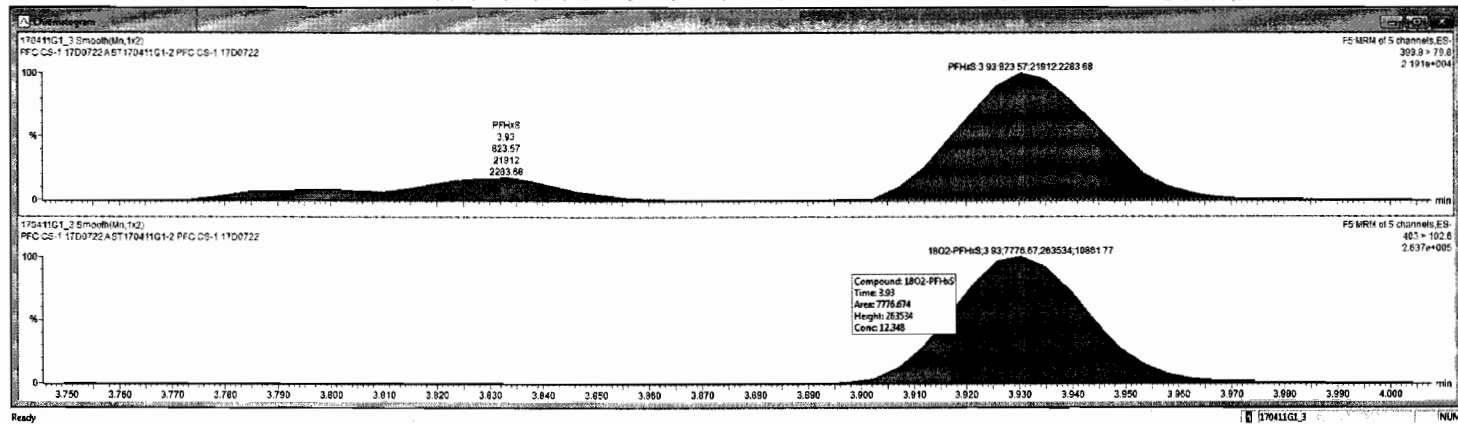
170411G1_3



Target 170411G1_3 2/17/0411G1_2 PFC CS-1 170722 PFC CS-1 170722

File Edit View Display Processing Window Help

Name	Code	DL	Value	EMPC	Abs. Prop.	RRF	RT	#	SP	RA	Y/N	REQ	Acq. Date	Acq. Time	PK Cnt./Inj	D	Sample Test	Factor	CV%	Chk/Fix	INCL
1	PFBA	0.4918371	0.5185	98.4	1.10e3	1.73	1	14				1.003	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
2	PFPA	0.5448371	0.5204	109.0	5.825e2	2.66	2	15				1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
3	PFBS	0.50545105	0.5101	101.7	9.731e2	2.92	3	16				1.001	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
4	PFNA	0.50945114		101.9	1.889e3	3.29	4	17				1.001	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
5	PFDA	0.48151230		98.3	1.323e3	3.81	5	18				1.001	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
6	PFDS	0.48049115		98.1	8.236e2	3.32	6	19				1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
7	2 FTS	0.47318487	0.133	94.6	1.718e3	4.17	7	21				0.997	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
8	PFDA	0.50434575		100.9	1.657e3	4.22	8	21				1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
9	PFDS	0.58194434	0.297	112.2	1.897e2	4.31	9	21				1.022	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
10	PFCS	0.41514219	0.9979	83.1	3.262e2	4.63	10	22				1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
11	PFNA	0.44854871		99.3	8.099e2	4.56	11	23				1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
12	PFDA	0.46552810		93.2	4.452e2	4.86	12	24				0.999	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
13	2 FTS	0.50863478	0.0180	101.7	1.845e2	4.83	13	25				0.994	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
14	12C1-PFBA	12.403961	0.00246	99.2	3.736e4	1.165	173	14	26			1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
15	12C1-PFPA	12.513727	0.00590	100.1	1.459e4	0.379	2.86	15	27			0.810	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
16	12C1-PFBS	12.315944	0.00311	98.5	2.736e4	0.720	2.92	16	27			0.888	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
17	12C1-PFNA	4.9092368	0.000816	99.8	1.310e4	0.680	3.29	17	27			1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
18	12C1-PFDA	13.081444	0.00520	104.7	1.792e4	0.961	3.81	16	28			0.968	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
19	18C1-PFDS	12.347800	0.00280	98.8	7.777e3	0.442	3.93	19	28			1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
20	12C1-2 FTS	10.848850	0.00470	88.7	1.937e4	1.162	4.17	20	29			0.800	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
21	12C1-PFDA	13.588550	0.00780	106.7	3.616e4	3.233	4.22	21	29			1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO
22	12C1-PFDS	13.313870	0.00250	106.5	9.835e3	1.271	4.63	22	30			1.000	11-Apr-17	11:58:09		ST170411G	PFC CS-1 170722	1.0	1.00		NO

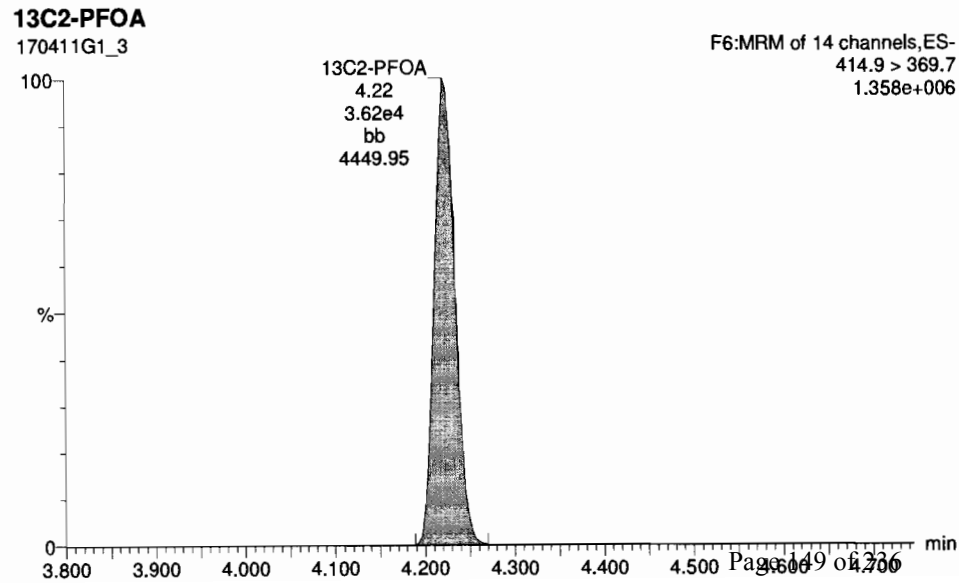
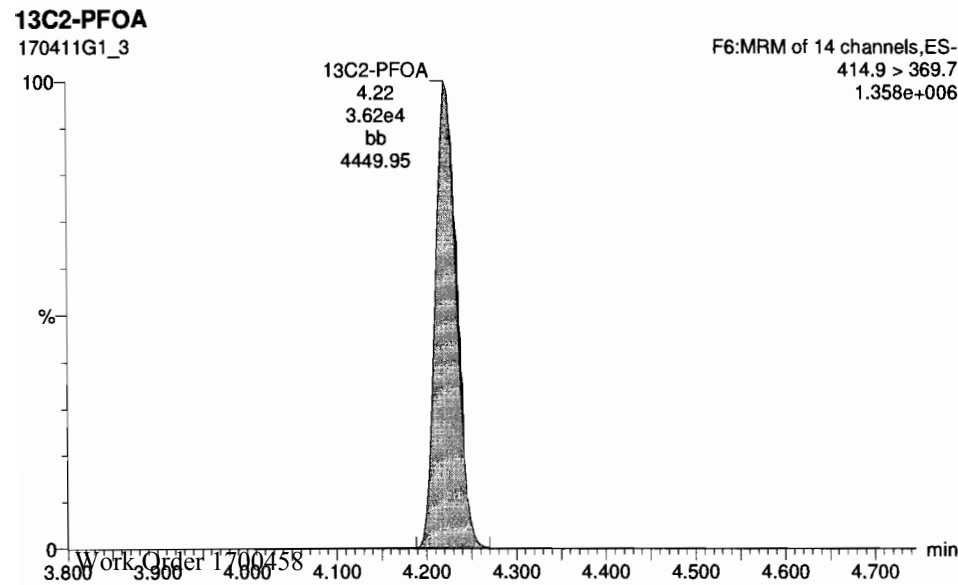
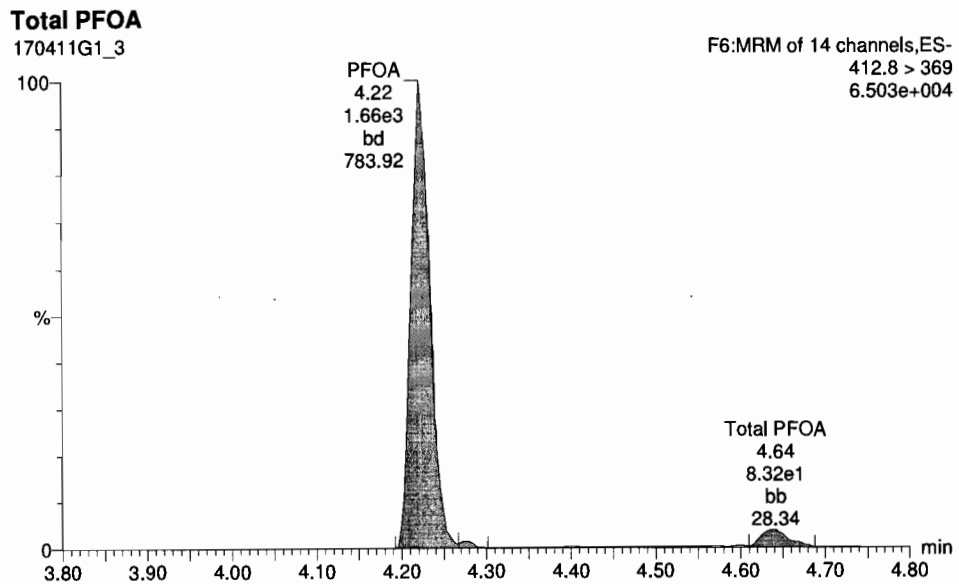
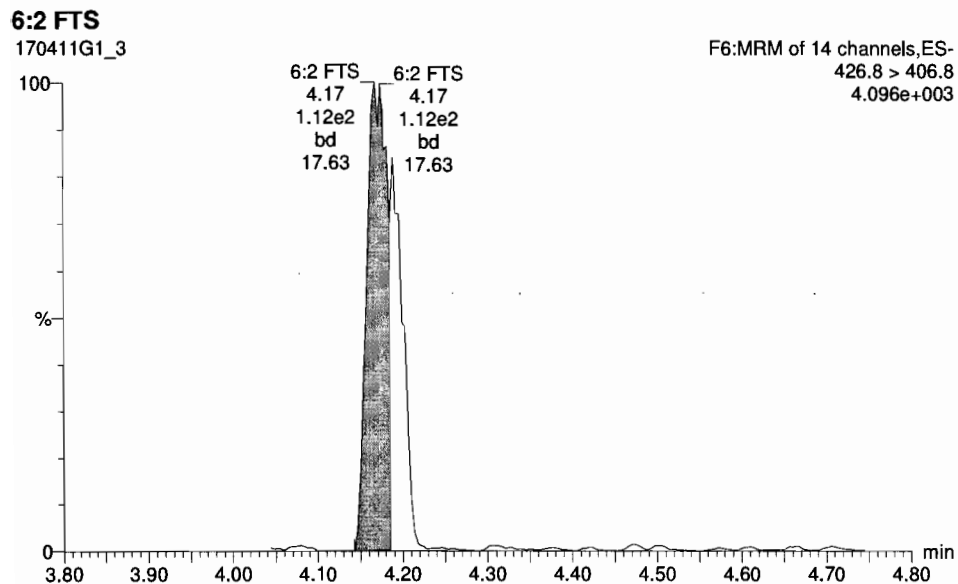


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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-2 PFC CS-1 17D0722, Description: PFC CS-1 17D0722 A, Name: 170411G1_3, Date: 11-Apr-2017, Time: 11:56:09, Instrument: , Lab: , User:



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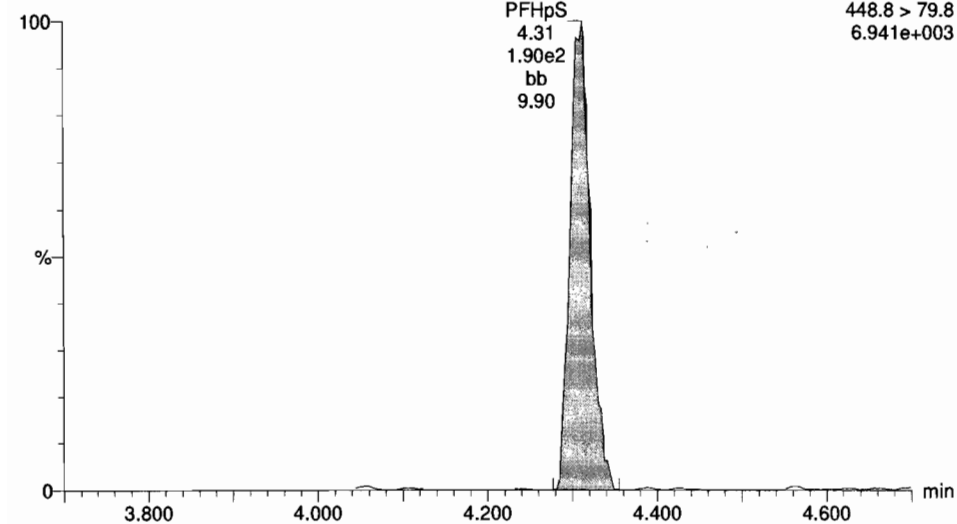
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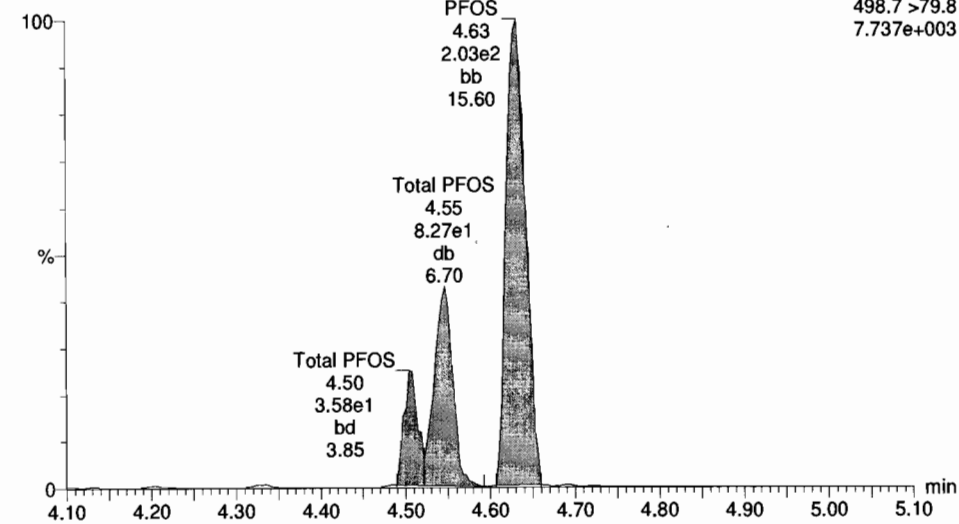
PFHpS

170411G1_3



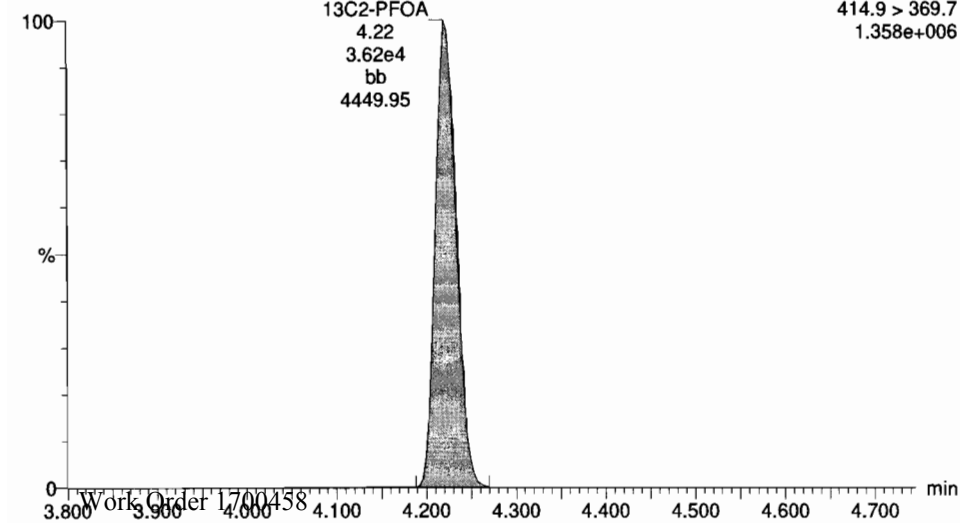
Total PFOS

170411G1_3



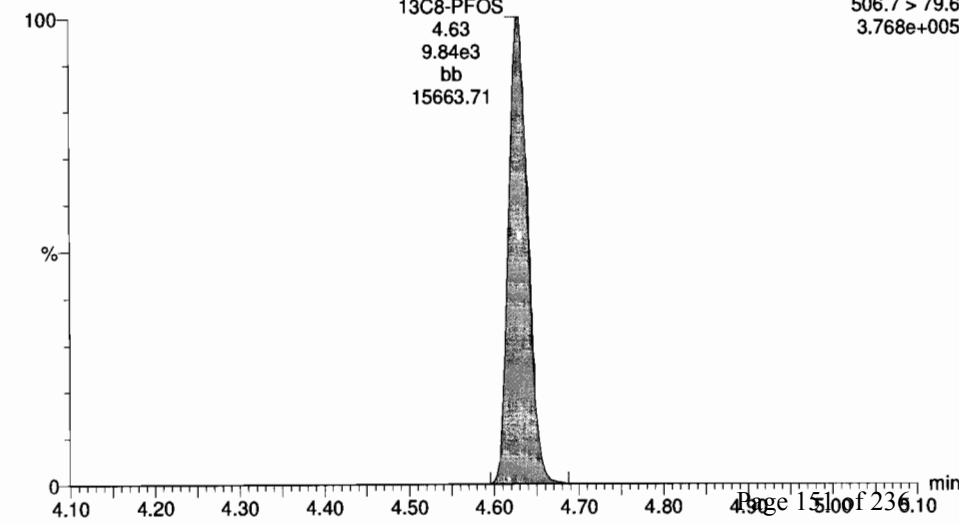
13C2-PFOA

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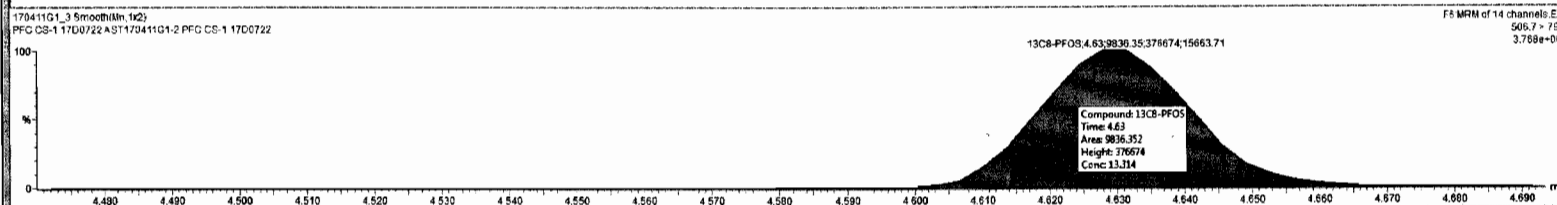
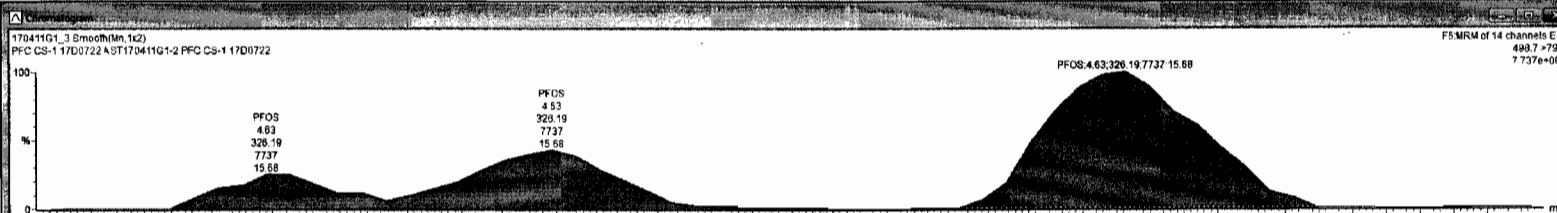


13C8-PFOS

170411G1_3



#	Name	Conc	DL	%Rec	FWHM	Abs Resp	RPF	RT	SA	RA	Y/N	RRT	Acq Date	Acq Time	1 st Chk Hx	D	Sample Test	Factor1	Dir	Cal Ph	INTEL
1	PFBA	0.49183671	0.0185	98.4	1.01e3	1.101e3	1.73	14	1.003	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
2	PFPA	0.84488711	0.0204	109.0	5.828e2	2.96	2	15	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
3	PFBS	0.50845105	0.0101	101.7	9.731e2	2.92	3	16	1.901	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
4	PFHxA	0.50945014		101.9	1.899e3	3.29	4	17	1.901	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
5	PFHxA	0.48151238		98.3	1.320e3	3.81	5	18	1.901	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
6	PFHxS	0.49645173		99.1	8.238e2	3.93	6	19	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
7	6:2 FTS	0.47319487	0.133	94.8	1.716e2	4.17	7	21	0.987	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
8	PFDA	0.58434575		100.9	1.657e3	4.22	8	21	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
9	PFHxS	0.56104434	0.257	112.2	1.897e2	4.31	9	21	1.922	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
10	PFOS	0.49574733	0.4892	103.3	2.633e3	4.53	10	22	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
11	PFNA	0.44654971		89.3	8.009e2	4.56	11	23	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
12	PFDA	0.48582810		93.2	4.452e2	4.86	12	24	0.999	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
13	6:2 FTS	0.50883478	0.6190	101.7	1.045e2	4.83	13	25	0.994	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO					
14	13C-PFBA	12.403061	0.00248	99.2	3.738e4	1.168	173	14	26	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
15	13C-PFPA	12.513737	0.80298	108.1	1.458e4	0.379	2.66	15	27	0.810	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
16	13C-PFBS	12.315384	0.09311	98.5	2.736e4	0.378	2.92	16	27	0.808	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
17	13C-PFPA	4.9882388	0.00818	99.8	1.310e4	0.860	3.28	17	27	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
18	13C-PFPA	13.081444	0.06526	104.7	1.792e4	0.961	3.71	18	28	0.968	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
19	18O2-PFHS	12.347800	0.00288	98.8	7.777e3	0.442	3.93	19	28	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
20	13C-6:2 FTS	10.840858	0.00470	88.7	1.037e4	1.182	4.17	20	29	0.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
21	13C-PFDA	13.585558	0.00788	108.7	3.618e4	3.233	4.22	21	29	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				
22	13C-PFOS	13.313878	0.00205	106.5	9.838e3	1.277	4.83	22	30	1.900	11-Apr-17	11:56:09	ST170411G1	PFC CS-1 17007	1.0	1.00	NO				



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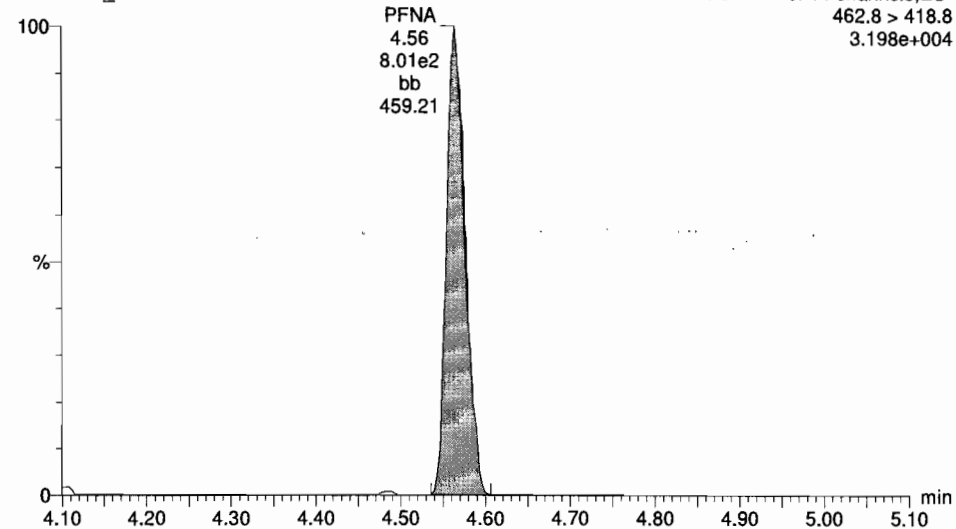
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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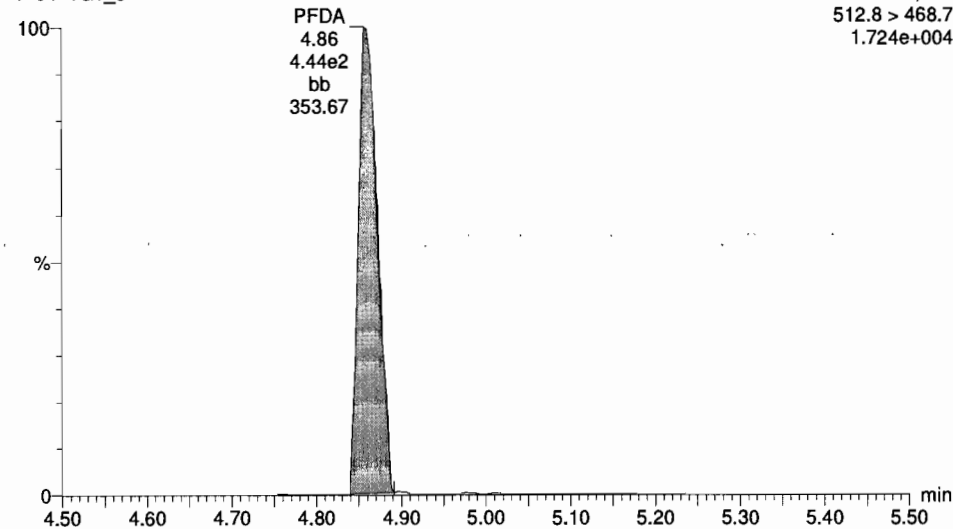
PFNA

170411G1_3



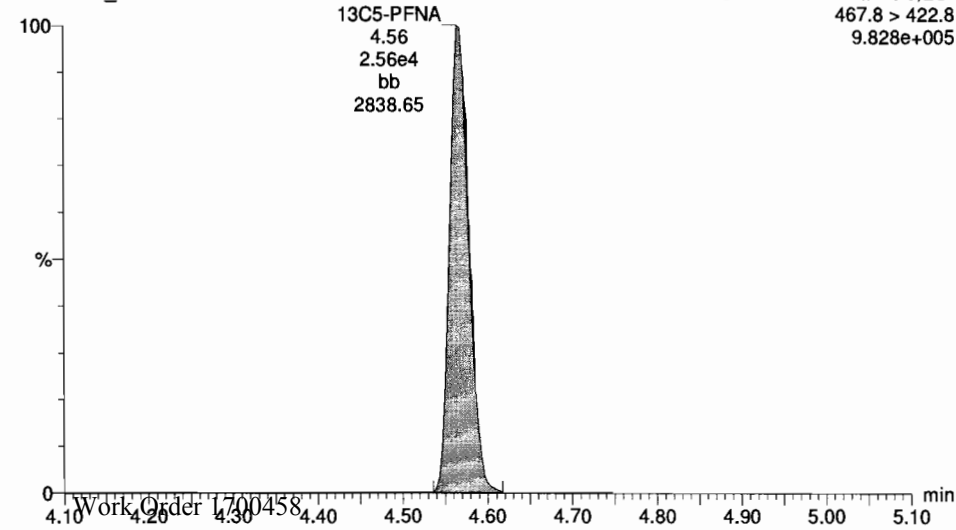
PFDA

170411G1_3



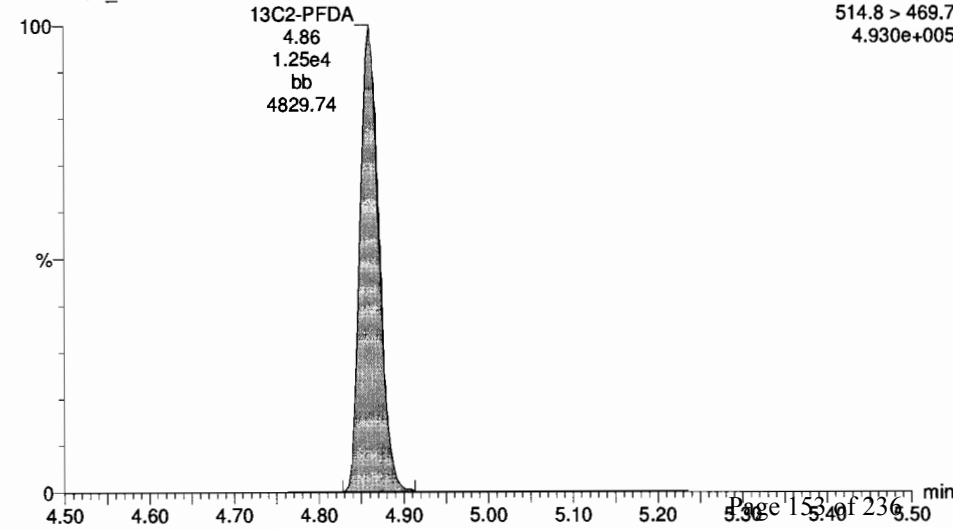
13C5-PFNA

170411G1_3



13C2-PFDA

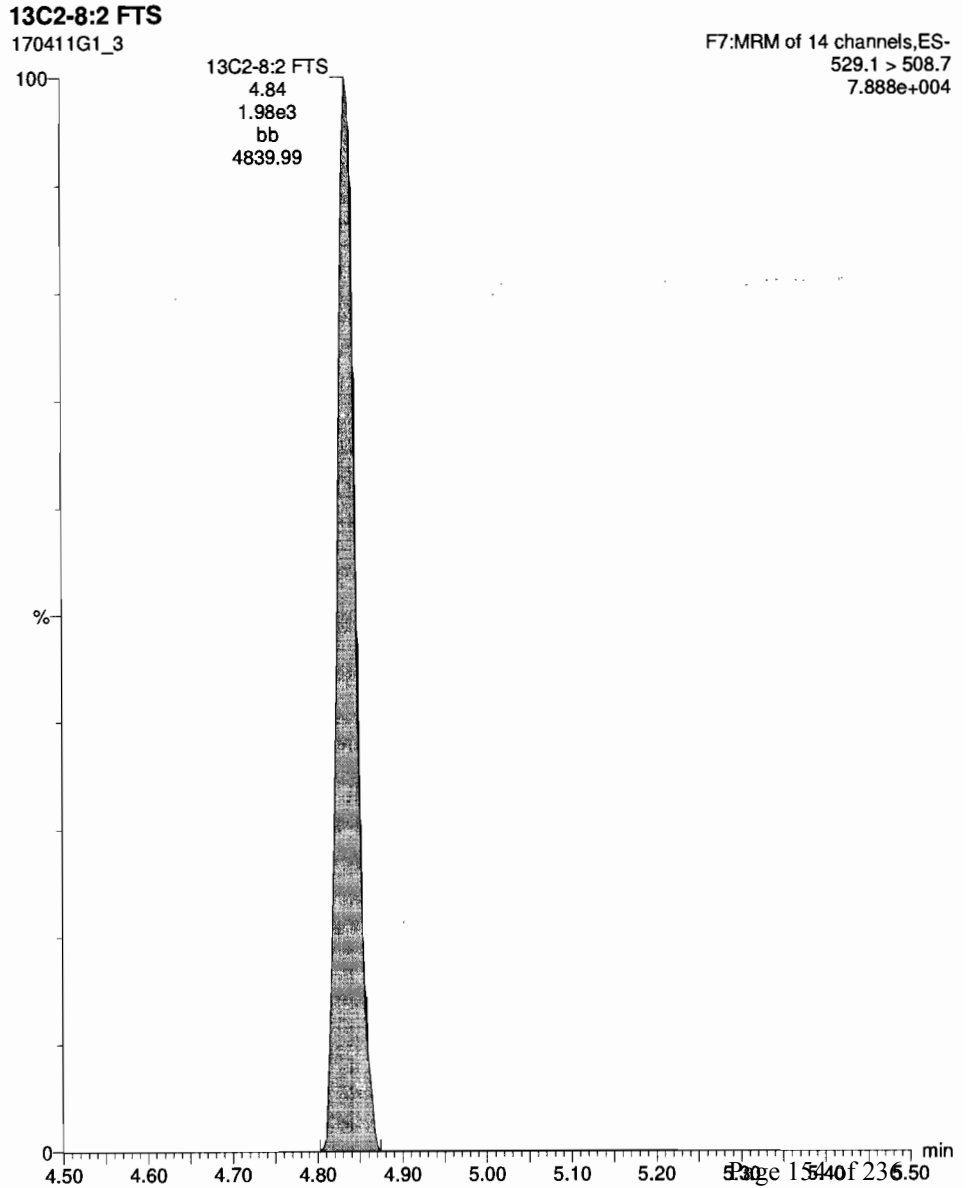
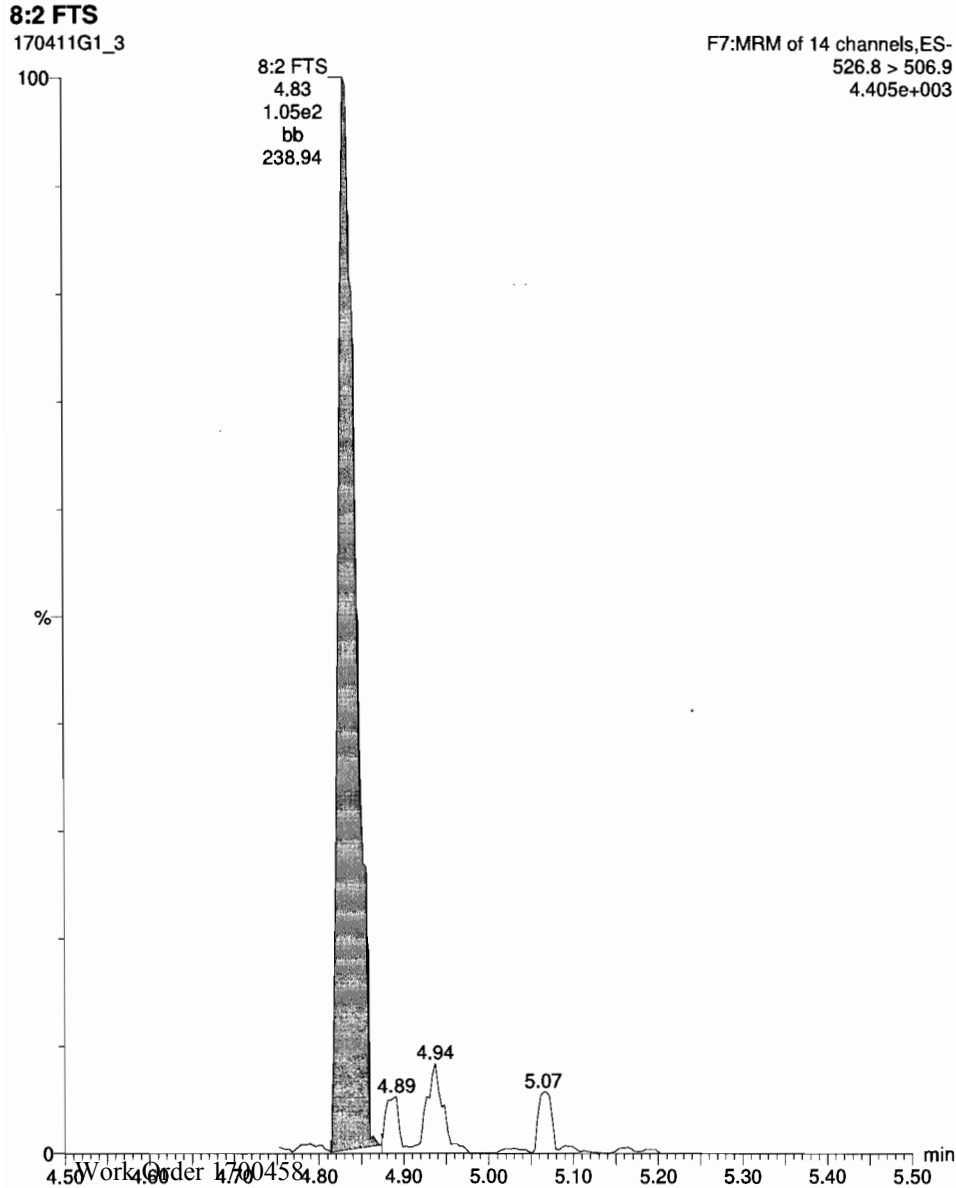
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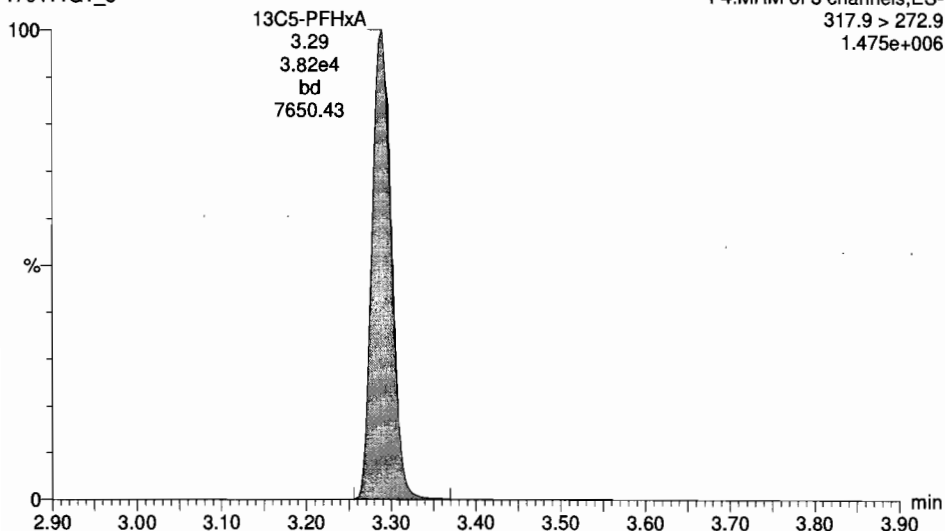
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13C5-PFHxA

170411G1_3

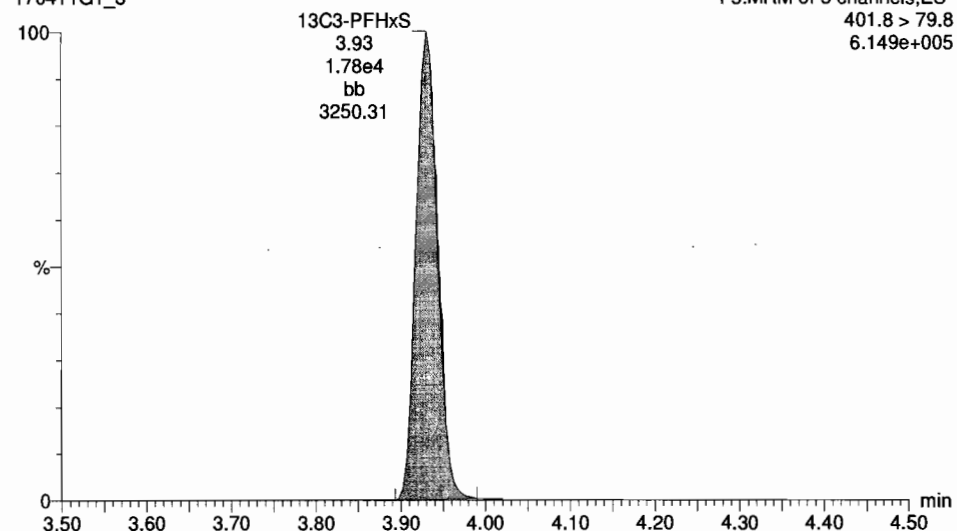
F4:MRM of 3 channels,ES-
317.9 > 272.9
1.475e+006



13C3-PFHxS

170411G1_3

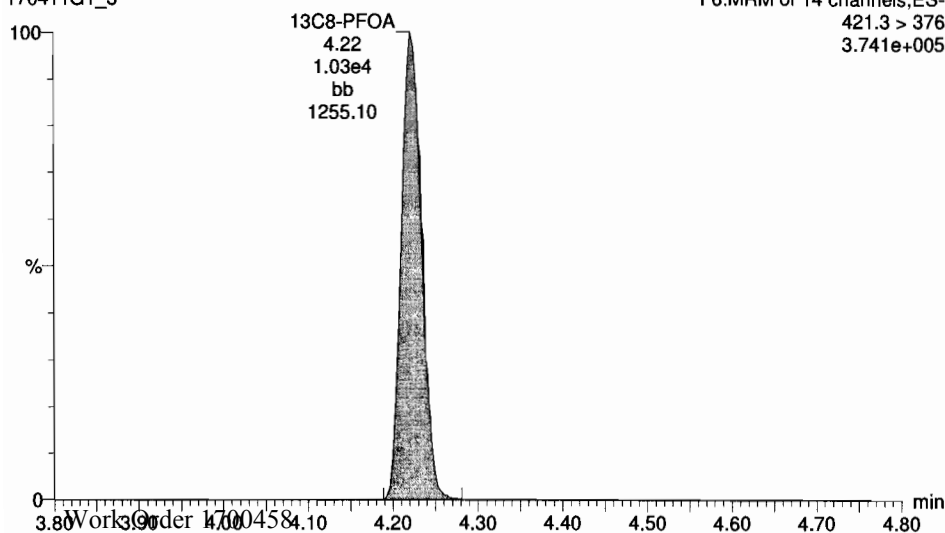
F5:MRM of 5 channels,ES-
401.8 > 79.8
6.149e+005



13C8-PFOA

170411G1_3

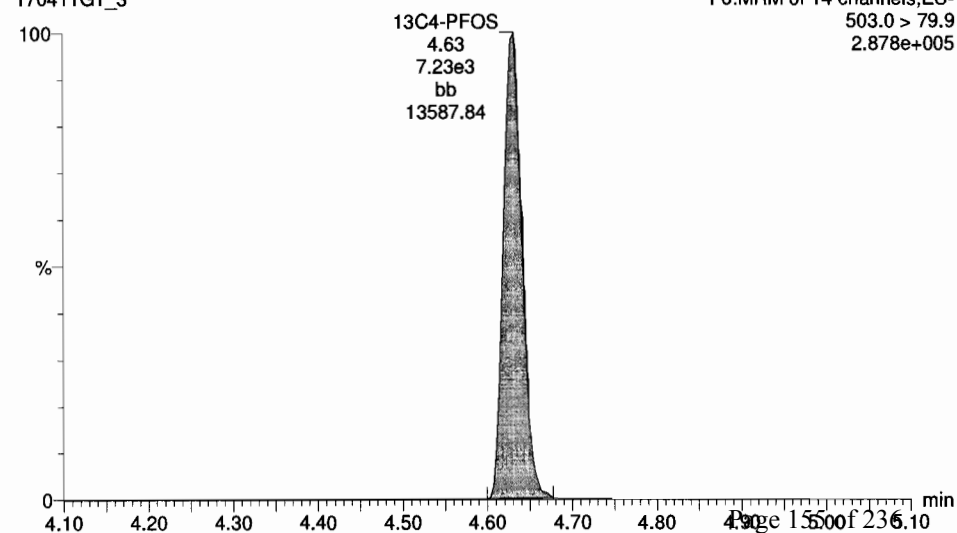
F6:MRM of 14 channels,ES-
421.3 > 376
3.741e+005



13C4-PFOS

170411G1_3

F6:MRM of 14 channels,ES-
503.0 > 79.9
2.878e+005



Dataset: Untitled

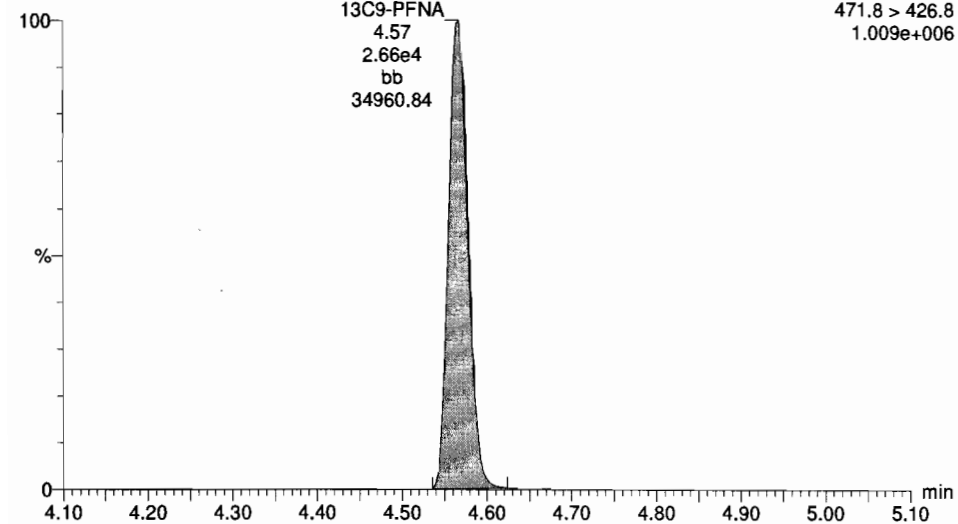
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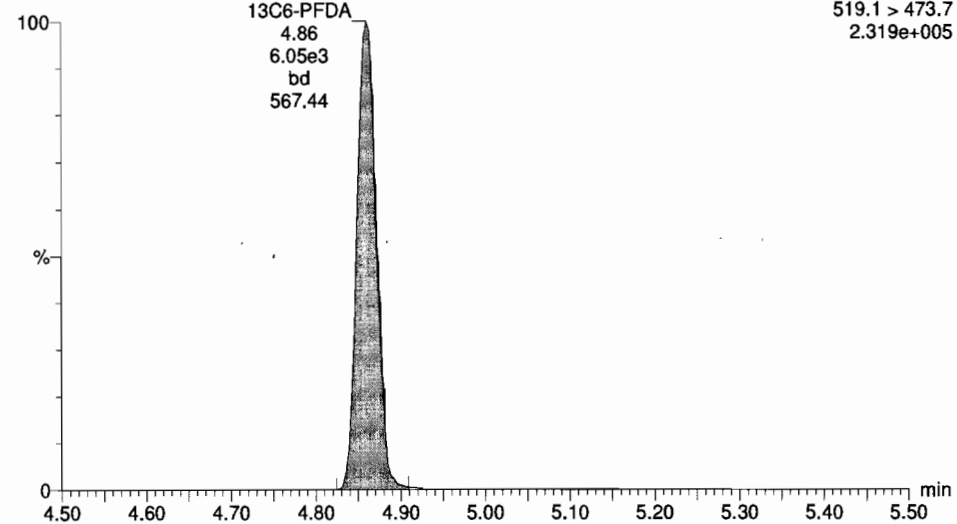
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13C6-PFDA

170411G1_3



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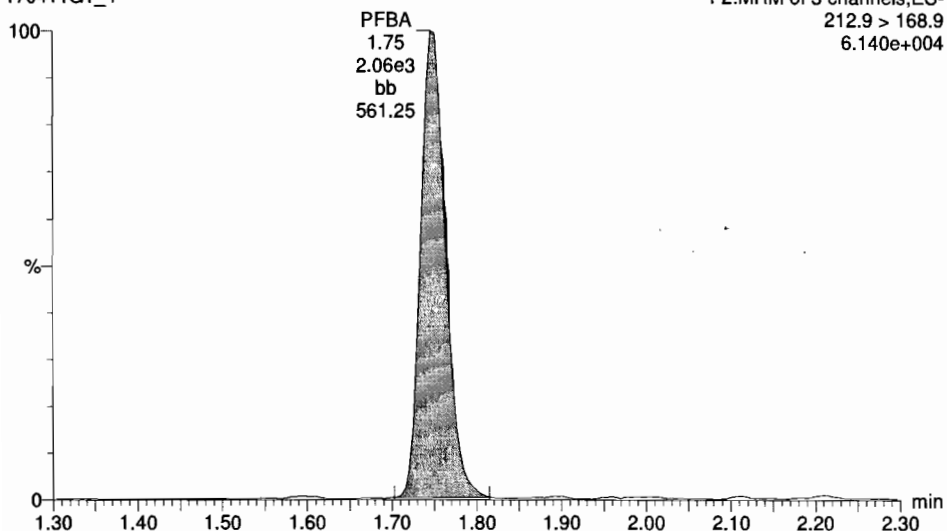
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:

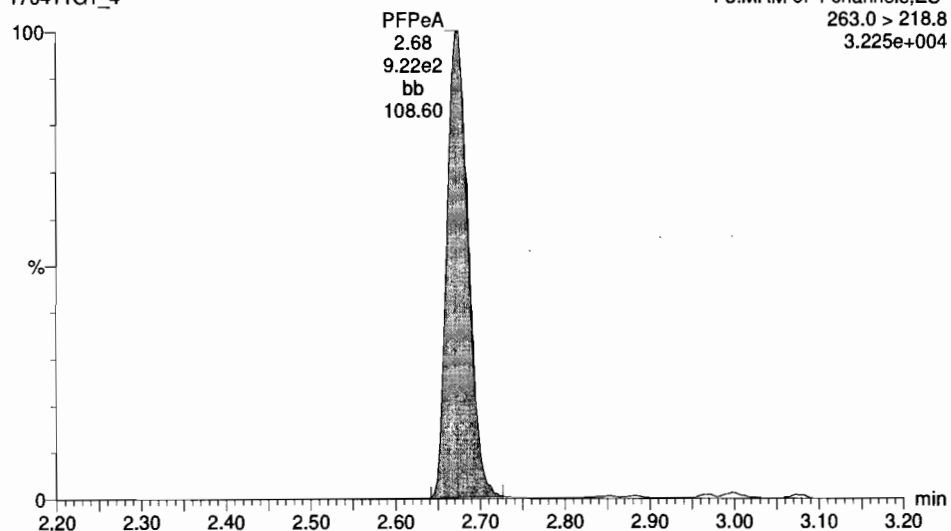
PFBA

170411G1_4



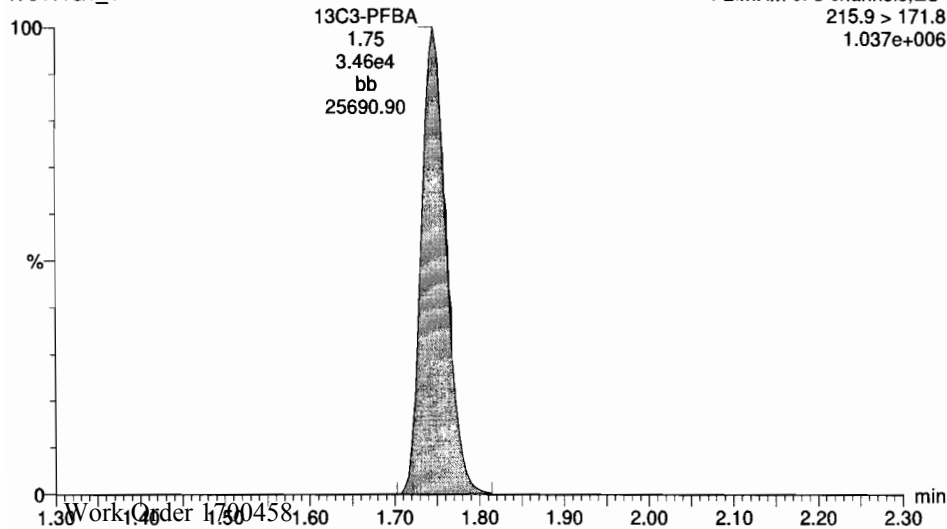
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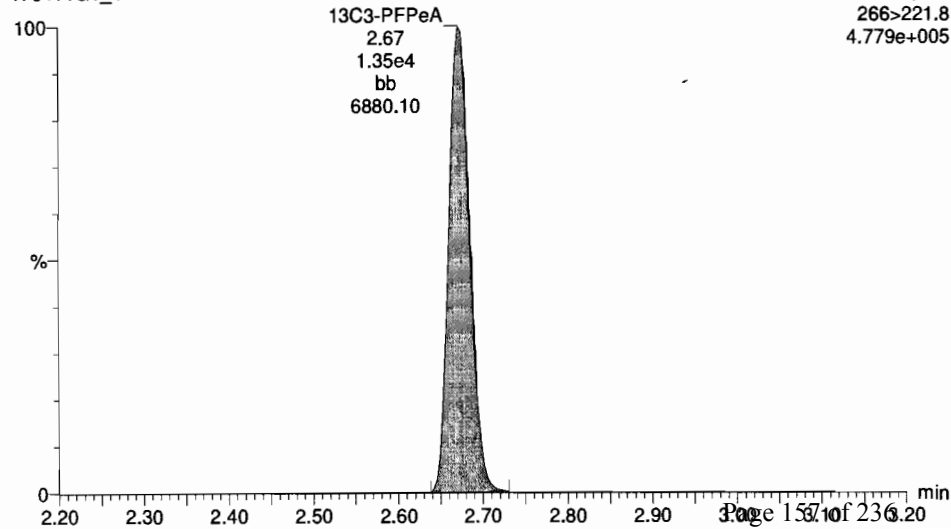
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170411G1_4



13C3-PFPeA

170411G1_4



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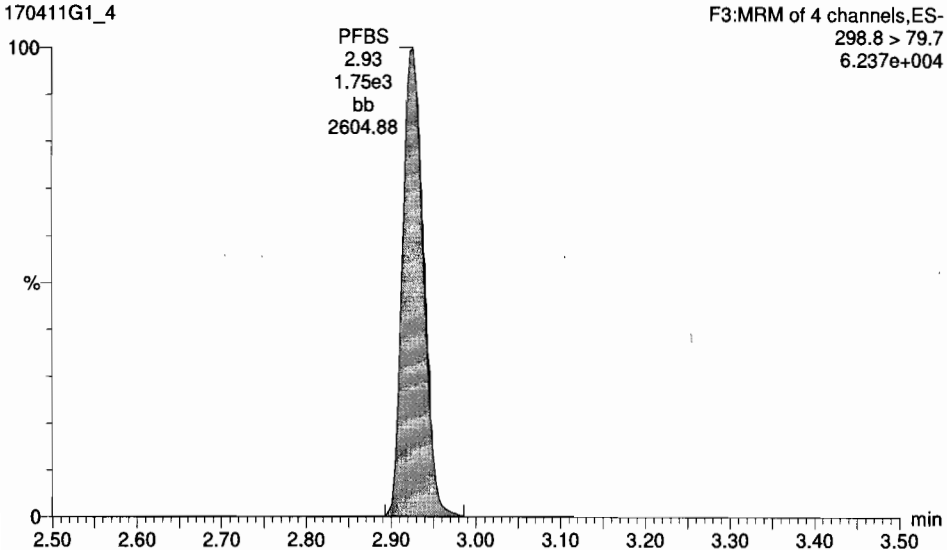
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:

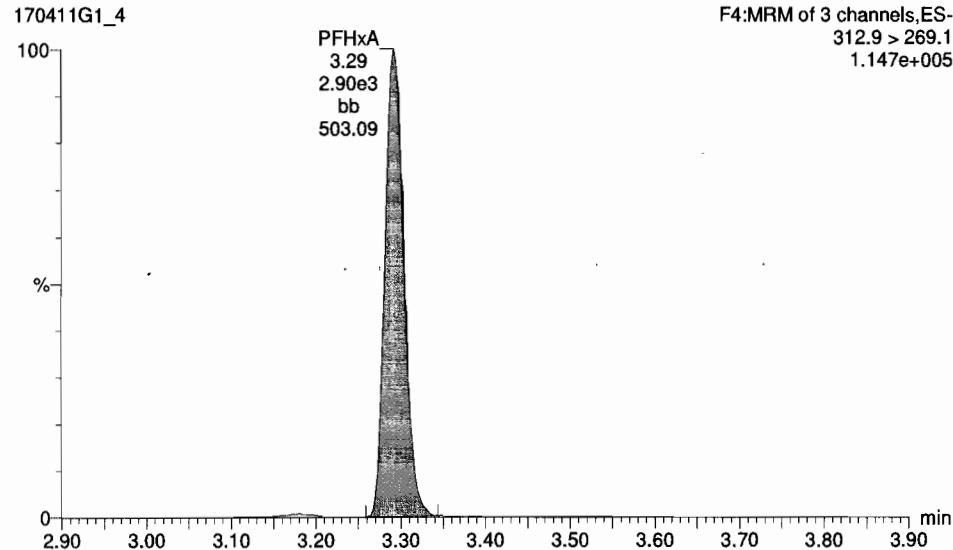
Total PFBS

170411G1_4



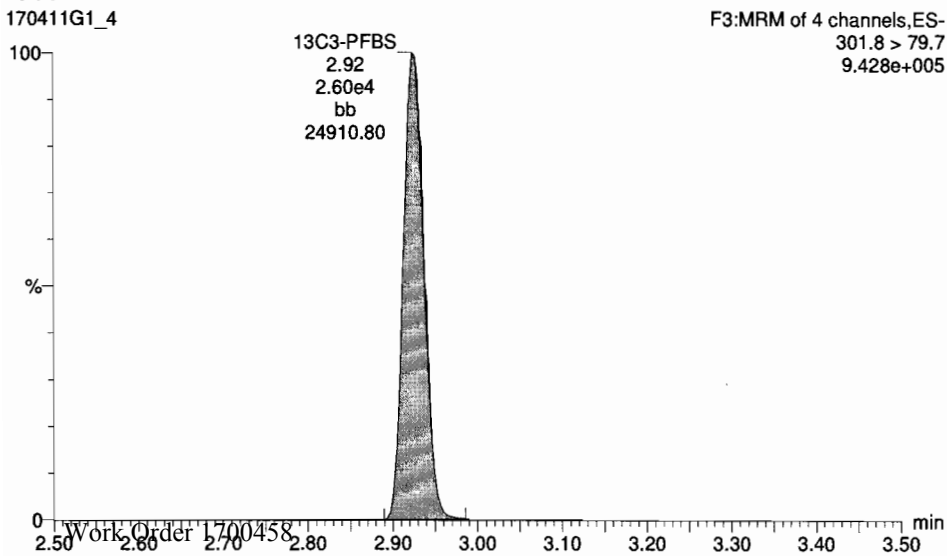
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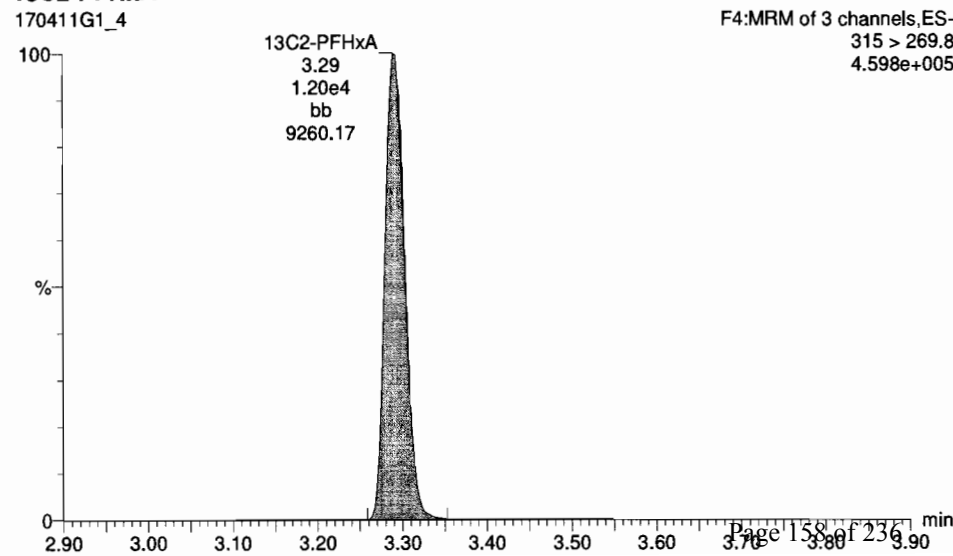
13C3-PFBS

170411G1_4



13C2-PFHxA

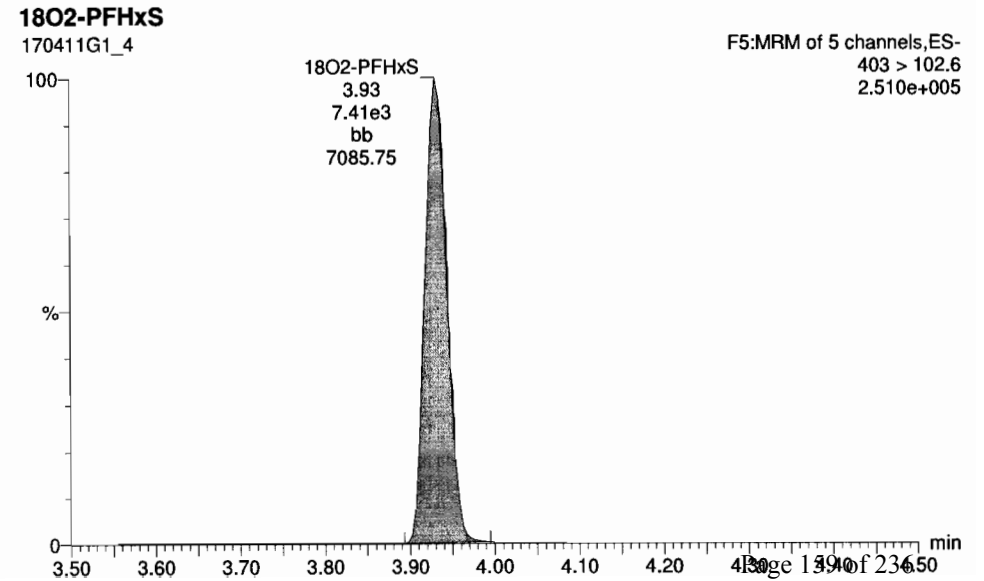
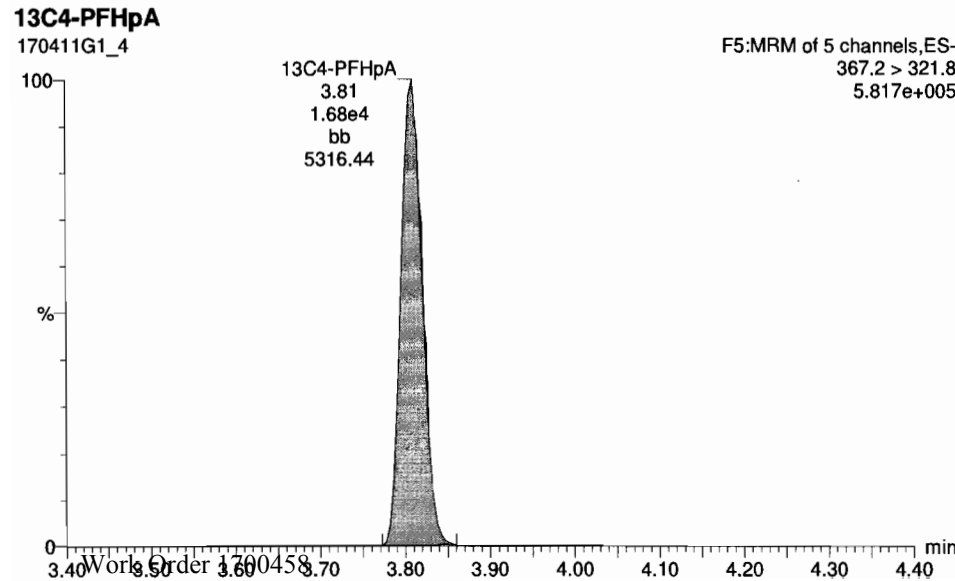
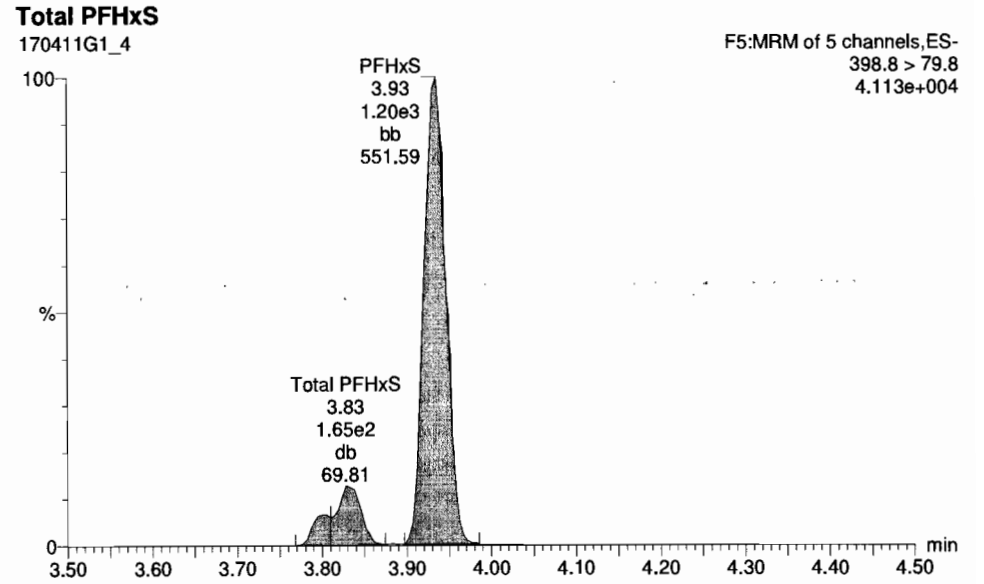
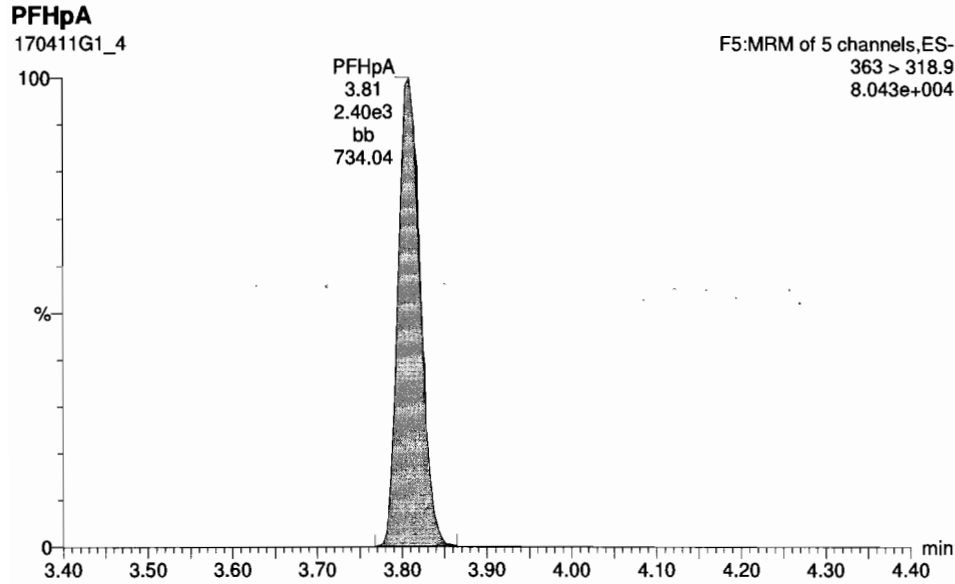
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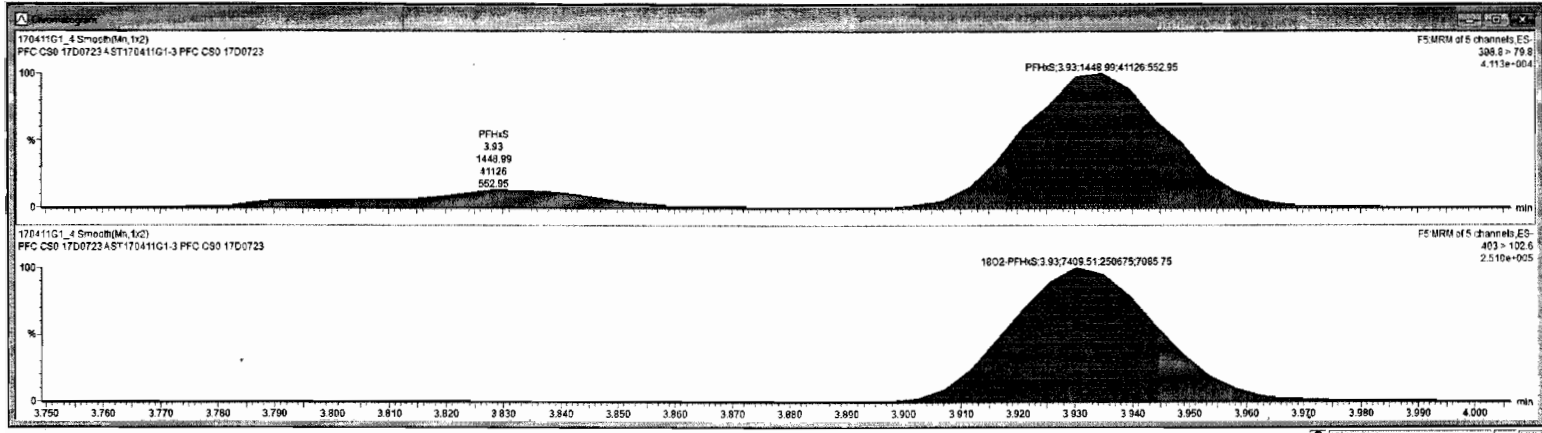
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:





Name	EMPC	DN	NRMS	EMPC	Ada.9999	REF	RT	OP	RA	YR	RRT	Acq Date	Acq Time	1° Cnt Noise	D	Sample Test	Factor1	SW	Cal/FW	MOD
1 PFBA	0.9832629	0.0180	88.5		2.95343		1.75	14			1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
2 PFPA	0.9202583	0.0368	92.0		8.25842		2.87	2	15		1.061	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
3 PFBS	0.95420530	0.0105	95.4		1.75343		2.93	3	16		1.061	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
4 PFPA	0.91091203		91.1		2.90343		3.29	4	17		1.061	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
5 PFPA	0.93821769		93.8		2.40443		3.81	5	18		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
6 PFBS	0.9202583		92.0		1.75343		3.93	6	19		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
7 8.2 FTS	0.83929514	0.102	83.9		3.30242		4.18	7	21		0.989	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
8 PFDA	0.87843880		87.8		2.53443		4.23	8	21		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
9 PFHS	0.87481270	0.161	87.5		3.26242		4.31	9	21		1.021	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
10 PFOS	0.91957667	0.0604	92.0		7.72942		4.83	10	22		0.999	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
11 PFNA	0.9881029		98.8		1.78143		4.57	11	23		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
12 PFDA	0.96002034		96.0		8.11942		4.86	12	24		0.999	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
13 8.2 FTS	0.99511816	0.0251	98.6		2.95542		4.84	13	25		0.985	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
14 13C3-PFBA	12.539958	0.00123	109.5		3.45944	1.168	1.75	14	26		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
15 13C3-PFPA	12.672871	0.00428	101.4		1.36544	6.379	2.87	15	27		0.812	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
16 13C3-PFBS	12.736202	0.00171	101.9		2.80344	6.728	2.93	16	27		0.858	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
17 13C2-PFNA	4.9801990	0.00135	99.8		1.20244	6.980	3.29	17	27		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
18 13C4-PFPA	13.716542	0.00633	106.5		1.68244	6.981	3.01	18	28		0.969	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
19 1802-PFHS	12.704826	0.00448	102.1		7.41043	6.442	3.93	19	28		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
20 13C2-8.2 FTS	18.429908	0.00205	83.4		1.82844	1.162	4.17	20	29		0.900	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
21 13C2-PFDA	12.848680	0.0111	102.8		3.52844	3.233	4.23	21	29		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO
22 13C8-PFOS	12.868851	0.00428	102.5		8.73943	1.277	4.83	22	30		1.000	11-Apr-17	12:09:07		ST170411G	PFC CS0 17D0723	1.0	1.00		NO



Ready 170411G1_4 NUM

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Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

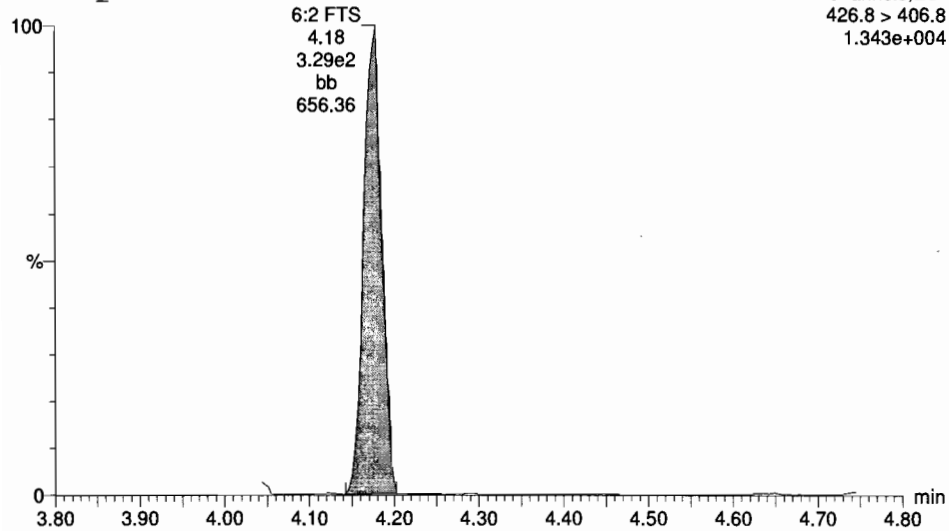
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:

6:2 FTS

170411G1_4

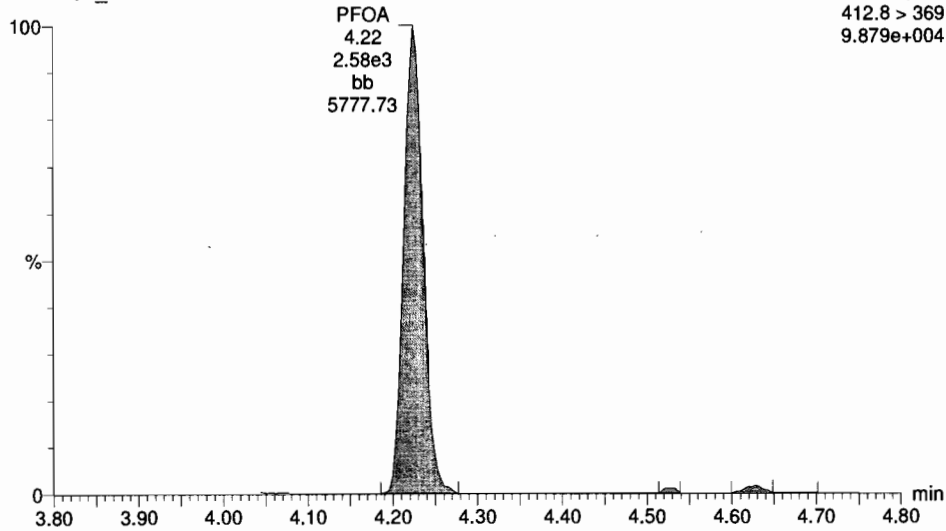
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426.8 > 406.8
1.343e+004



Total PFOA

170411G1_4

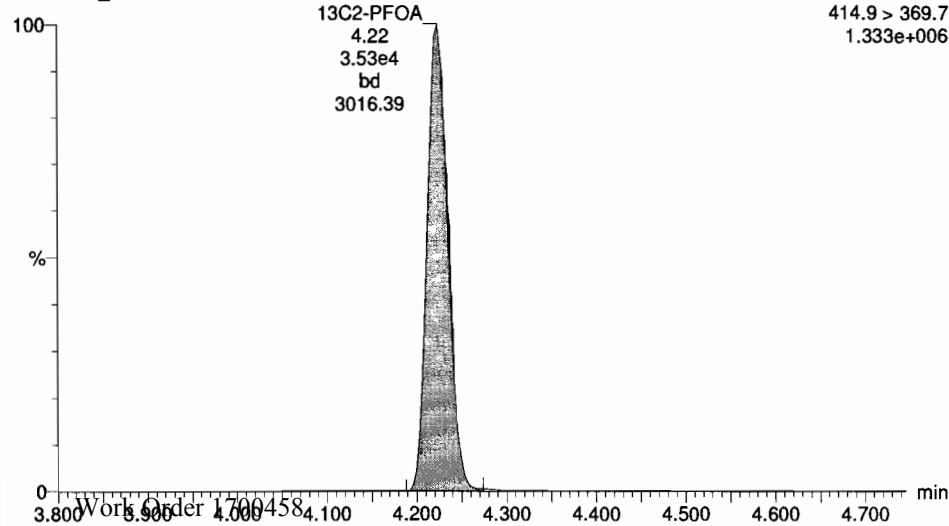
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9.879e+004



13C2-PFOA

170411G1_4

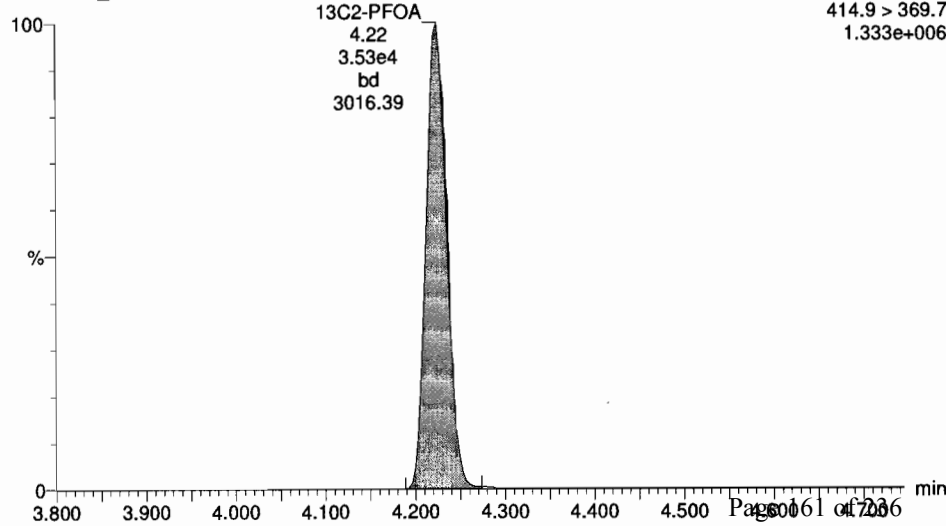
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1.333e+006



13C2-PFOA

170411G1_4

F6:MRM of 14 channels,ES-
414.9 > 369.7
1.333e+006

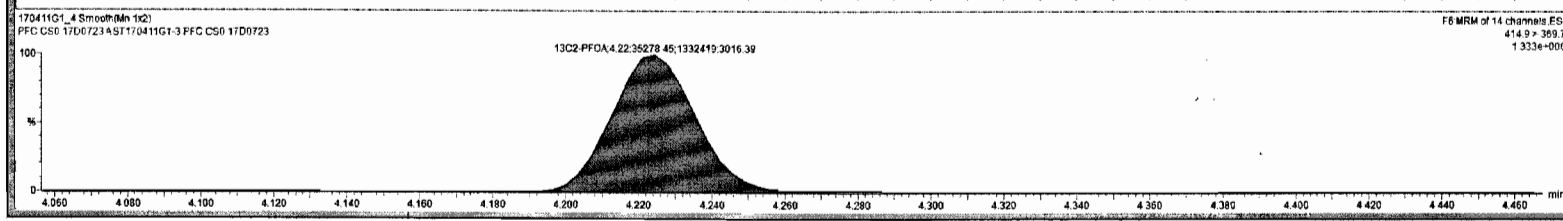
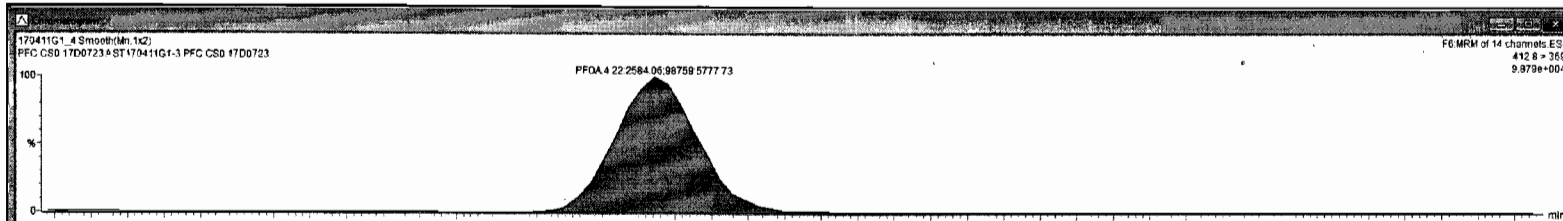


Target: 170411G1_4

File Edit View Display Processing Window Help

170411G1_4 - ST170411G1-3 PFC CS0 17D0723 - PFC CS0 17D0723 A

ID	Name	Comp	DL	Sec	EMPC	Abs Resp	RRP	RT	#	RA	YM	RRF	Acq Date	Acq Time	1 st Ch Name	D	Sample Test	Factor1	Off	Cal File	MOD
1	FFBA	0.06326296	0.0180	96.3		2.065e3	1.75	1	14			1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
2	FFPA	0.02025263	0.0362	82.0		9.265e2	2.87	2	15			1.001	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
3	FFBS	0.05420630	0.0105	95.4		1.753e3	2.93	3	16			1.001	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
4	FFHA	0.01091203		91.1		2.963e3	3.29	4	17			1.001	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
5	FFPA	0.03821769		93.8		2.404e3	3.81	5	16			1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
6	FFPS	0.06532357		96.5		1.449e3	3.93	6	19			1.001	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
7	8.2 FTS	0.03825514	0.102	83.9		3.362e2	4.18	7	21			0.999	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
8	PFDA	0.07843586		87.8		2.584e3	4.22	8	21			1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
9	FFPS	0.07481270	0.161	87.5		3.292e2	4.31	9	21			1.021	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
10	FFOS	0.01957987	0.0604	92.0		7.729e2	4.63	10	22			0.999	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
11	FFNA	0.00811029		96.8		1.781e3	4.67	11	23			1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
12	PFDA	0.06082034		96.0		9.119e2	4.86	12	24			0.999	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
13	8.2 FTS	0.06611916	0.0251	96.6		2.095e2	4.84	13	25			0.995	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
14	13C3-FFBA	12.839958	0.00125	100.5		3.459e4	1.186	1.75	14	26		1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
15	13C3-FFPA	12.872871	0.00426	101.4		1.359e4	0.379	2.87	15	27		0.812	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
16	13C3-FFBS	12.780202	0.00121	101.9		2.667e4	0.728	2.92	16	27		0.809	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
17	13C2-FFHA	4.9801990	0.00135	99.8		1.202e4	0.860	3.29	17	27		1.020	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
18	13C4-FFPA	13.316542	0.00933	106.5		1.682e4	0.961	3.81	18	28		0.989	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
19	1802-FFBS	12.784826	0.00448	102.1		7.410e3	0.442	3.93	19	28		1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
20	13C2-6.2 FTS	16.429906	0.00205	83.4		1.029e4	1.162	4.17	20	29		0.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
21	13C2-PFDA	12.649690	0.0111	102.8		3.528e4	3.233	4.22	21	29		1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO
22	13C6-FFOS	12.888655	0.00428	102.5		9.738e3	1.277	4.63	22	30		1.000	11-Apr-17	12:09:07	ST170411G...	PFC CS0 17D07...	1.0	1.00			NO



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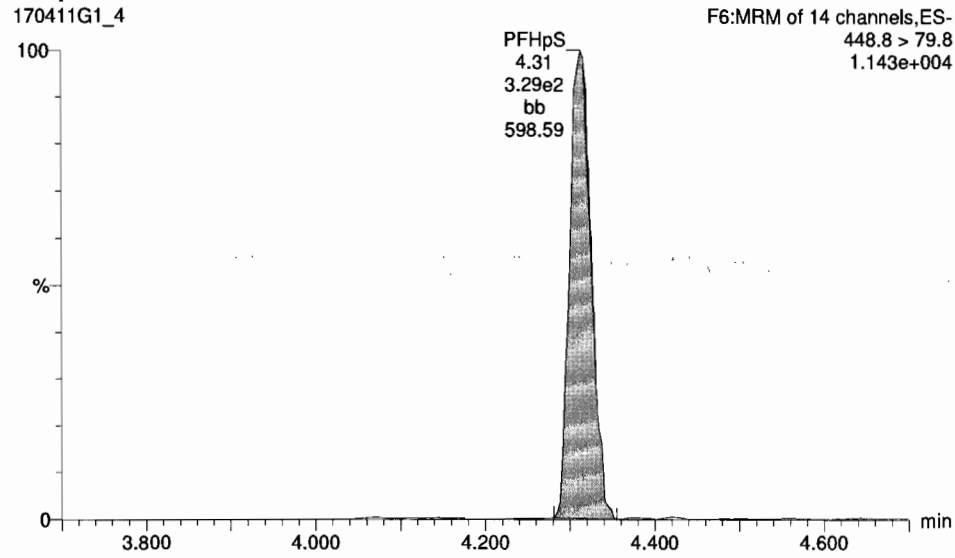
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:

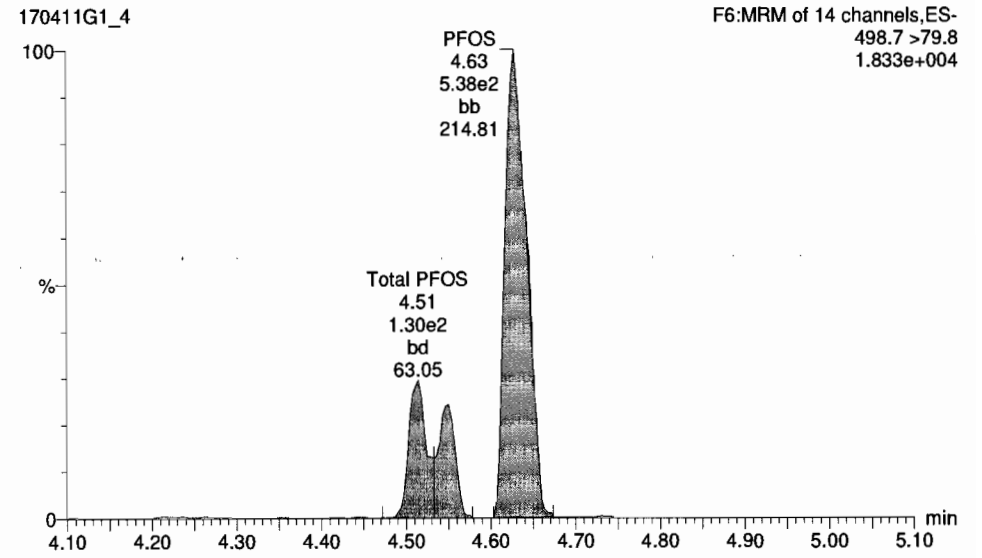
PFHpS

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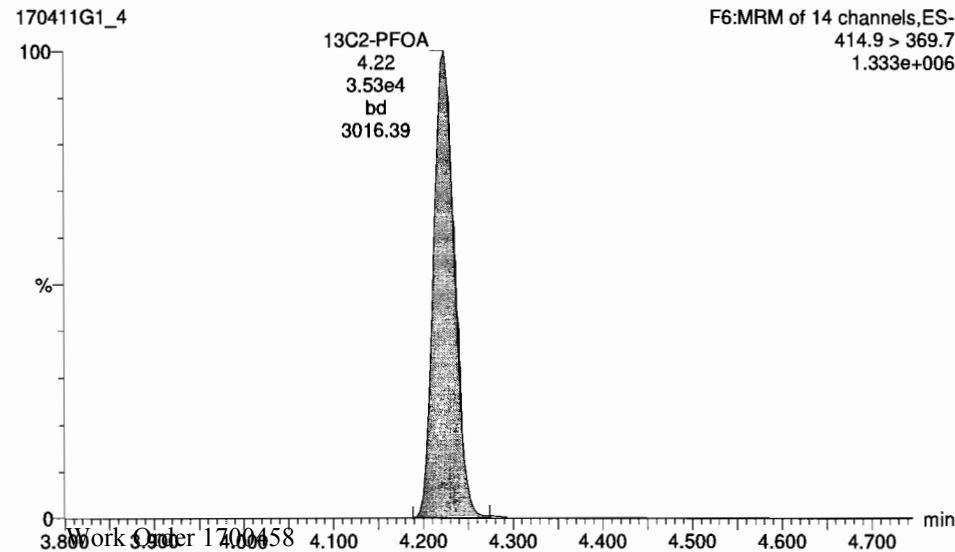
Total PFOS

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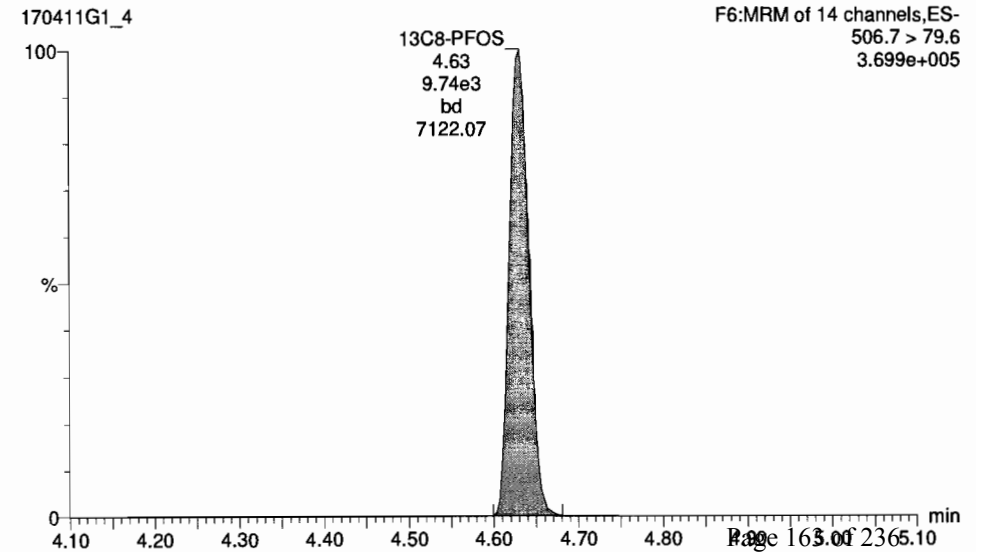
13C2-PFOA

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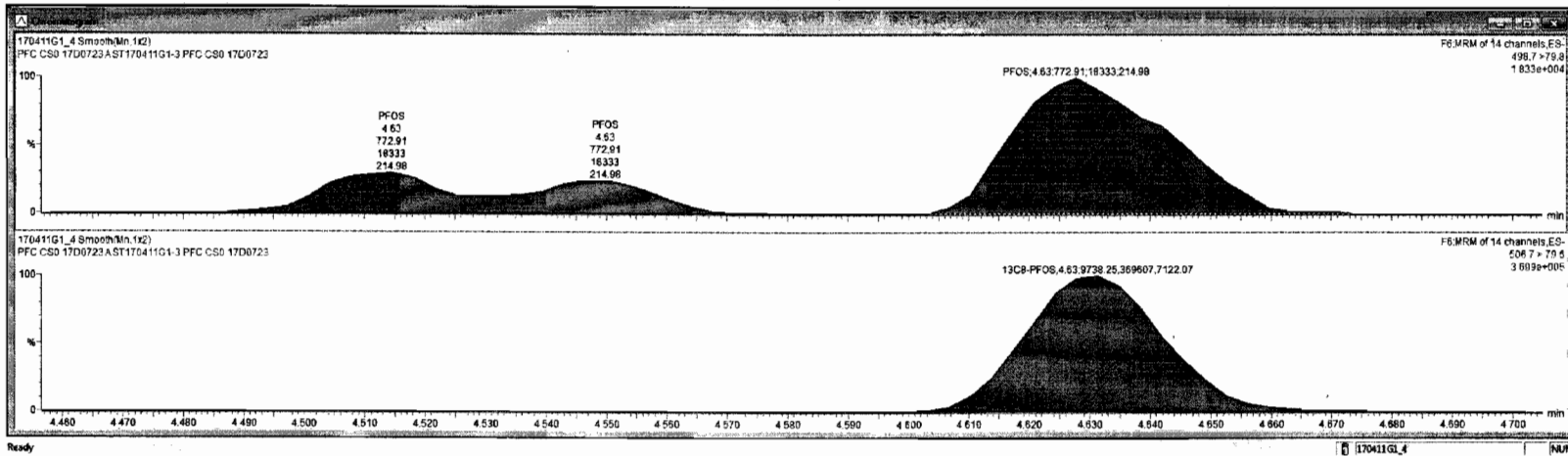


13C8-PFOS

170411G1_4



SI	Name	Conc	DL	%Rec	EUPC	Abs Resp	RF	RT	A	RF	RA	VN	RST	Acq Date	Acq Time	IP	ChroName	D	Sample Text	Factor	SN	Cal File	MOL
1	PFBA	0.98328296	0.0180	98.3		2.065e3		1.75	1	14			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
2	PFPeA	0.92025263	0.0368	92.0		9.285e2		2.67	2	15			1.001	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
3	PFBS	0.95429630	0.0105	95.4		1.753e3		2.93	3	16			1.001	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
4	PFHxA	0.91991203		91.1		2.905e3		3.29	4	17			1.001	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
5	PFHpA	0.93821769		93.8		2.404e3		3.81	5	18			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
6	PFMeS	0.96536257		96.5		1.448e3		3.93	6	19			1.001	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
7	6:2 FTS	0.63925114	0.102	63.9		3.302e2		4.18	7	21			0.989	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
8	PFDA	0.87643996		87.6		2.584e3		4.22	8	21			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
9	PFHbS	0.87481270	0.181	87.5		3.292e2		4.31	9	21			1.021	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
10	PFOS	0.81961982	0.8994	82.0		7.229e2		4.63	10	22			0.999	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
11	PFNA	0.96811829		96.8		1.781e3		4.57	11	23			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
12	PFDA	0.96002034		96.0		5.119e2		4.86	12	24			0.999	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
13	6:2 FTS	0.80811918	0.6251	80.8		2.095e2		4.84	13	25			0.995	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
14	13C3-PFBA	12.559658	0.00123	100.5		3.458e4	1.188	1.75	14	26			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
15	13C3-PFPeA	12.672871	0.00426	101.4		1.350e4	0.379	2.67	15	27			0.912	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
16	13C3-PFBS	12.736262	0.00121	101.9		2.602e4	0.728	2.92	16	27			0.889	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
17	13C3-PFHxA	4.9801990	0.00135	99.6		1.202e4	0.960	3.29	17	27			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
18	13C4-PFMeS	13.318542	0.00633	106.5		1.862e4	0.961	3.01	18	28			0.969	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
19	18O3-PFMeS	12.784625	0.00448	102.1		7.418e3	0.442	3.95	19	28			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
20	13C2-6:2 FTS	10.429968	0.00205	63.4		1.029e4	1.162	4.17	20	29			0.980	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
21	13C2-PFDA	12.848950	0.0111	102.8		3.529e4	3.233	4.22	21	29			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	
22	13C8-PFOS	12.809555	0.00428	102.5		9.738e3	1.271	4.63	22	30			1.000	11-Apr-17	12:09:07		ST170411G1	PFC CS0 17007...	1.0	1.00		NO	



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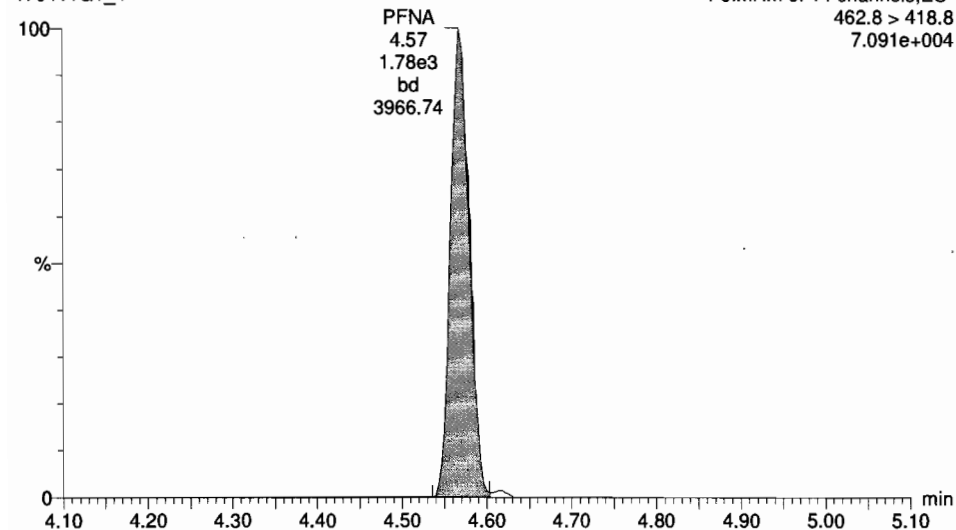
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:

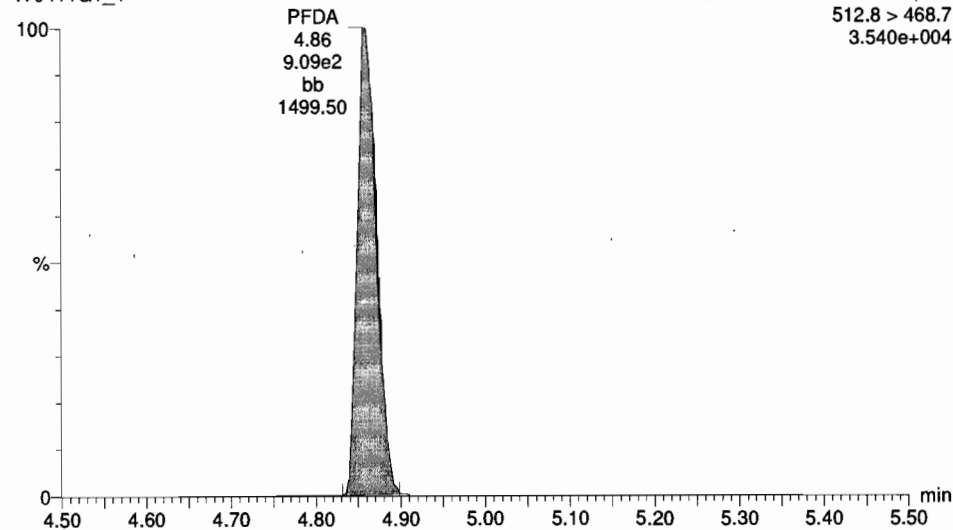
PFNA

170411G1_4



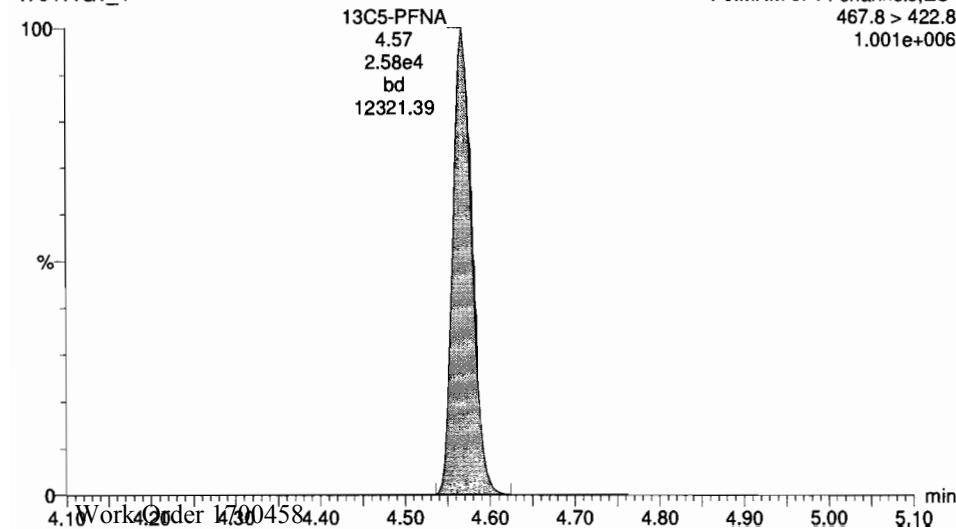
PFDA

170411G1_4



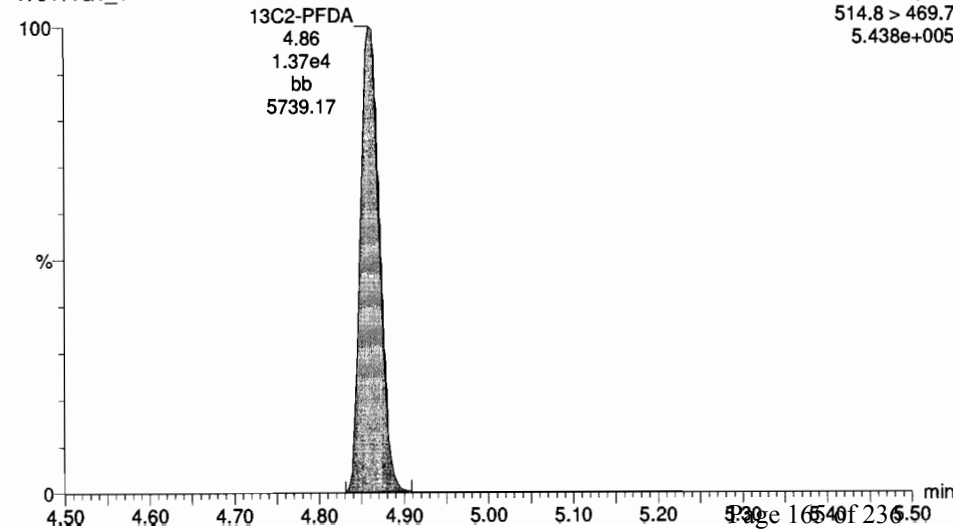
13C5-PFNA

170411G1_4



13C2-PFDA

170411G1_4



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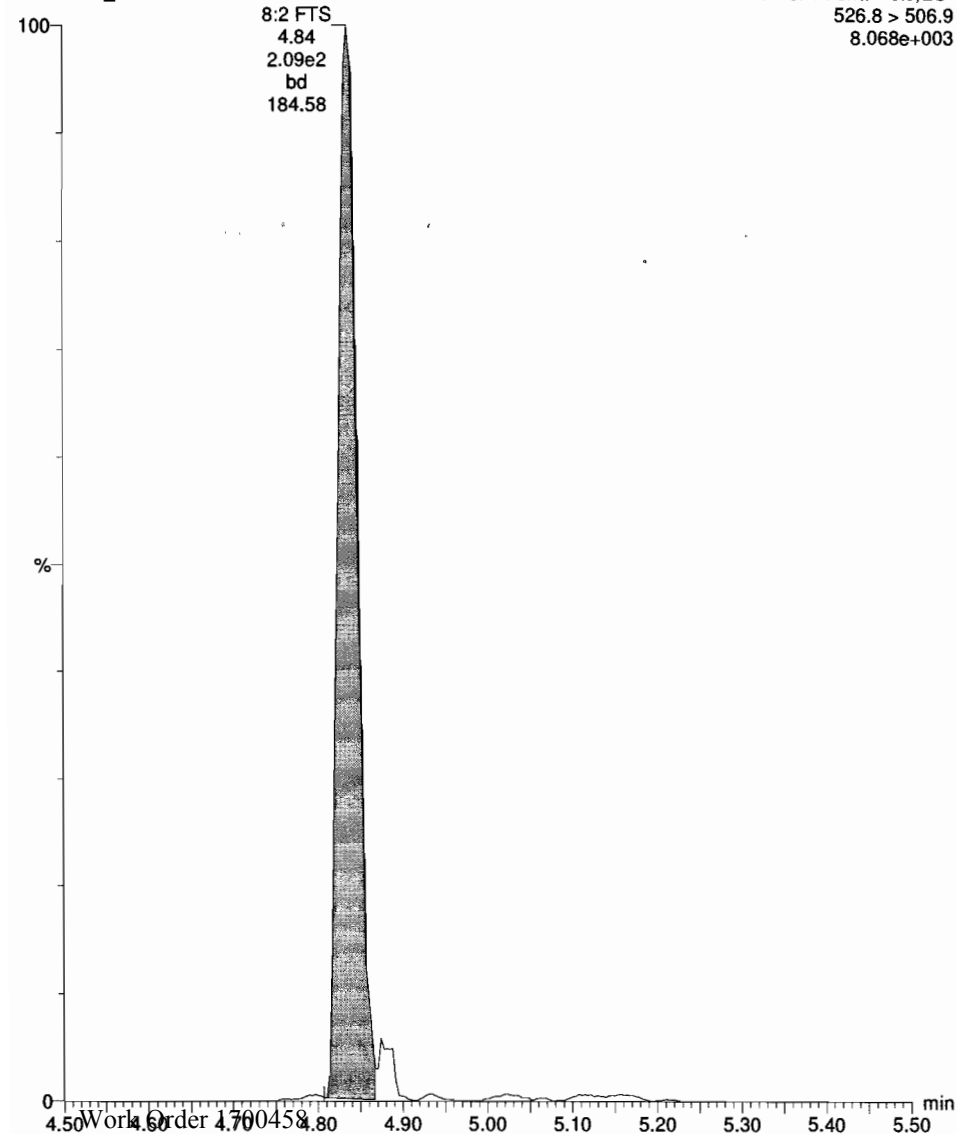
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:

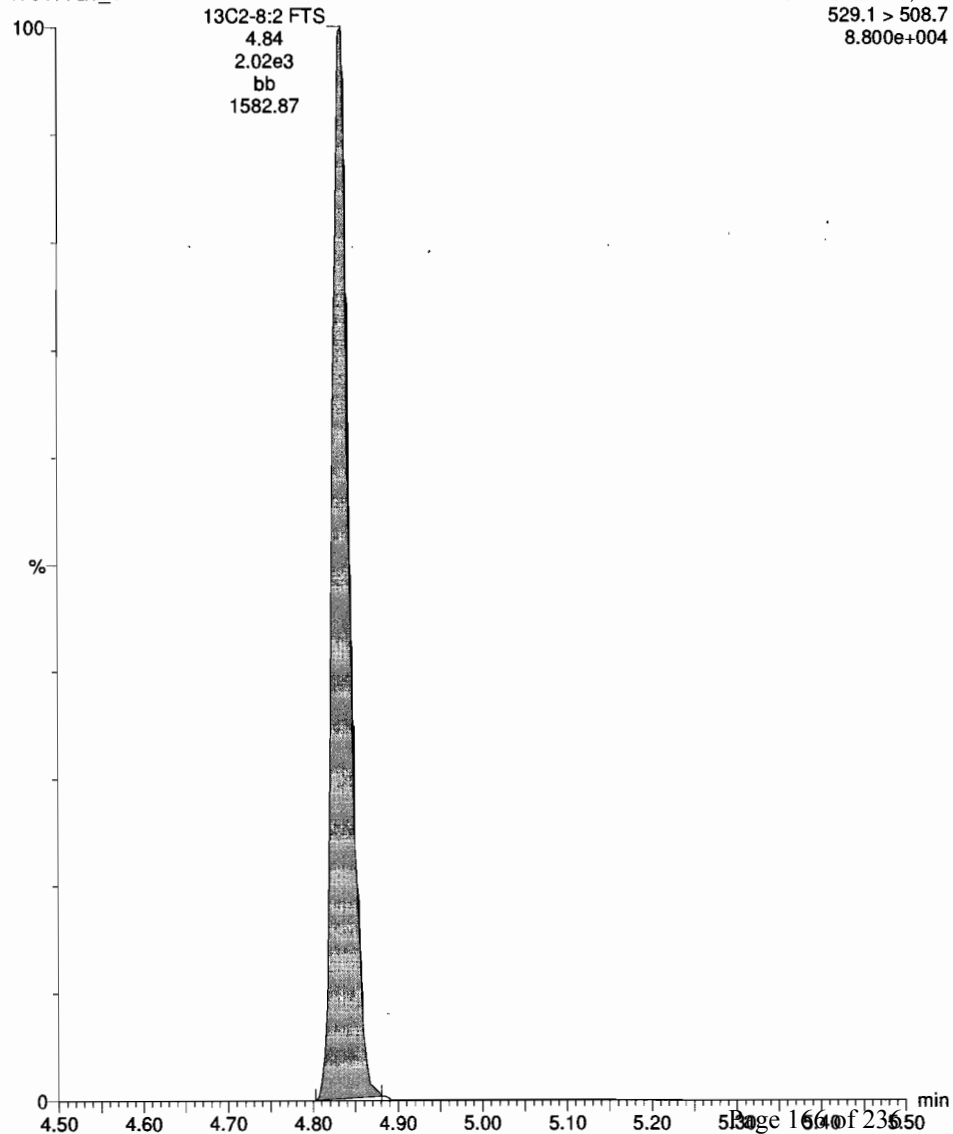
8:2 FTS

170411G1_4



13C2-8:2 FTS

170411G1_4



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

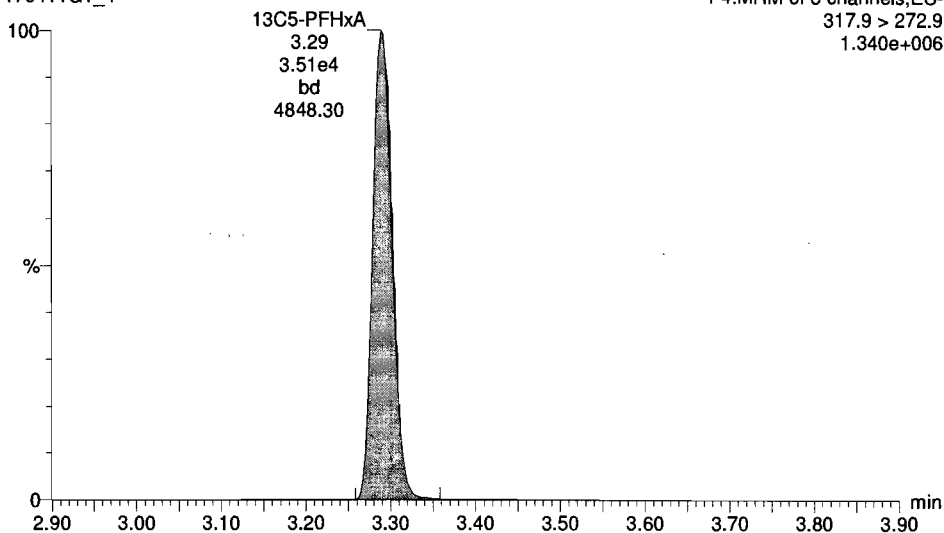
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13C5-PFHxA

170411G1_4

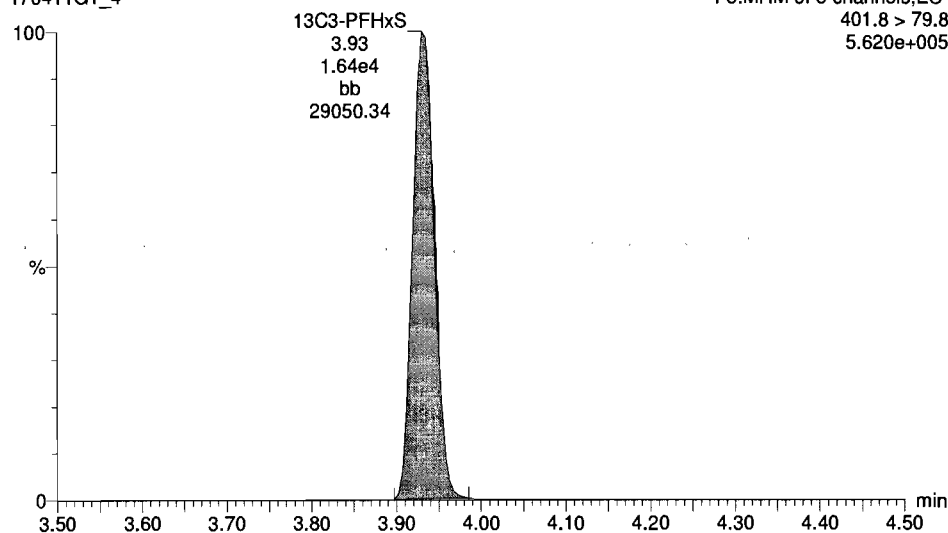
F4:MRM of 3 channels,ES-
317.9 > 272.9
1.340e+006



13C3-PFHxS

170411G1_4

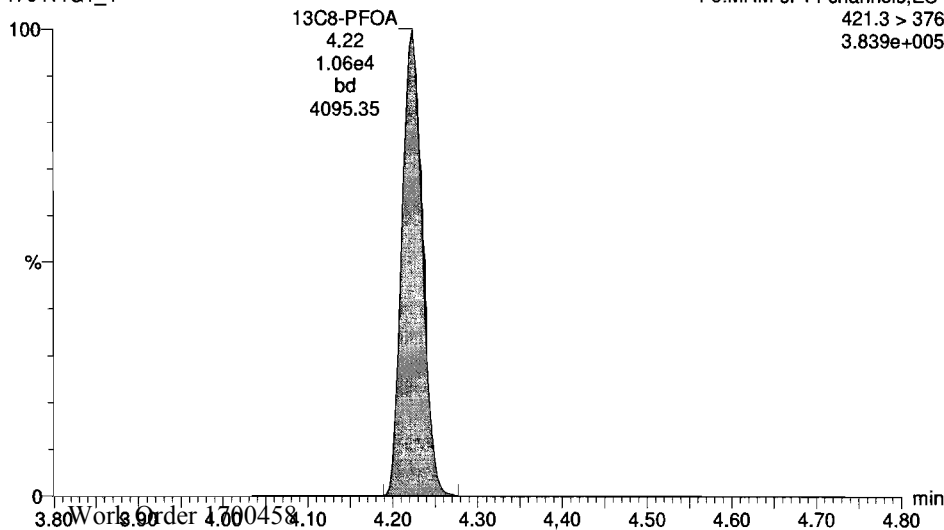
F5:MRM of 5 channels,ES-
401.8 > 79.8
5.620e+005



13C8-PFOA

170411G1_4

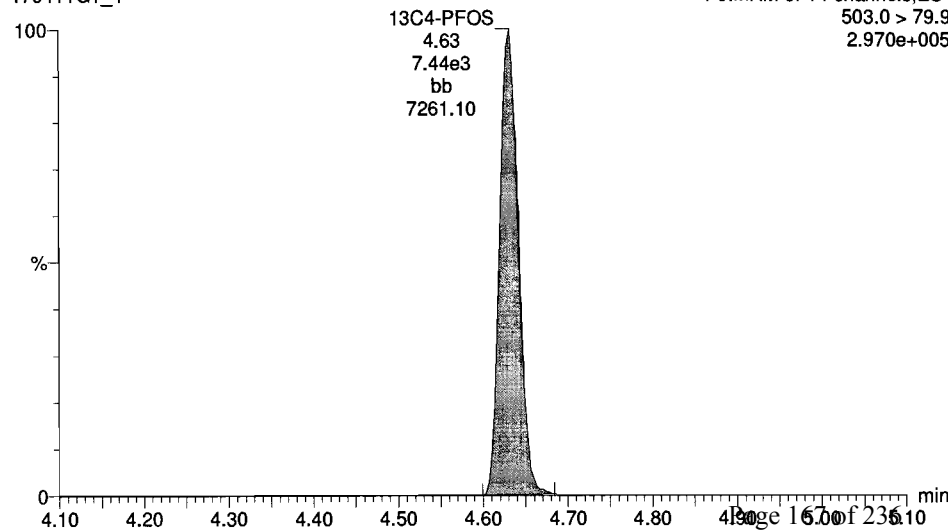
F6:MRM of 14 channels,ES-
421.3 > 376
3.839e+005



13C4-PFOS

170411G1_4

F6:MRM of 14 channels,ES-
503.0 > 79.9
2.970e+005



Dataset: Untitled

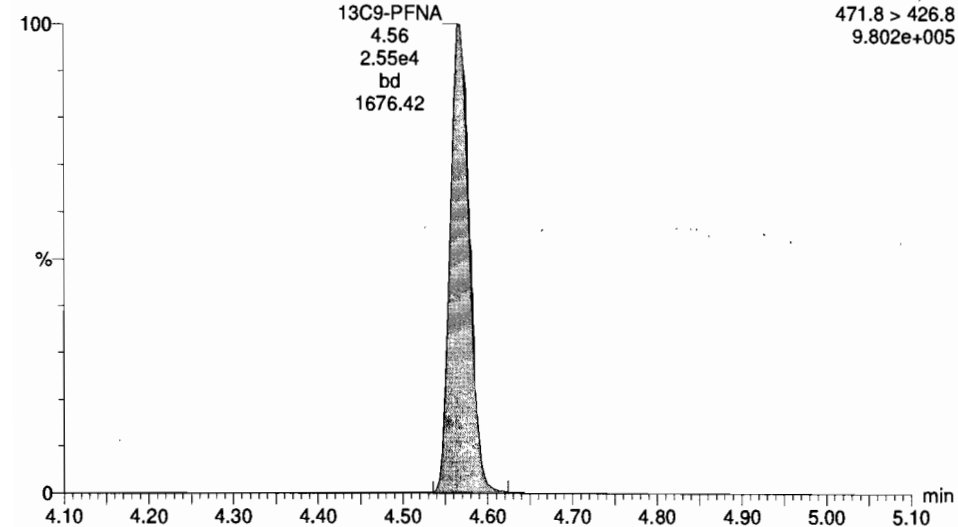
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-3 PFC CS0 17D0723, Description: PFC CS0 17D0723 A, Name: 170411G1_4, Date: 11-Apr-2017, Time: 12:09:07, Instrument: , Lab: , User:

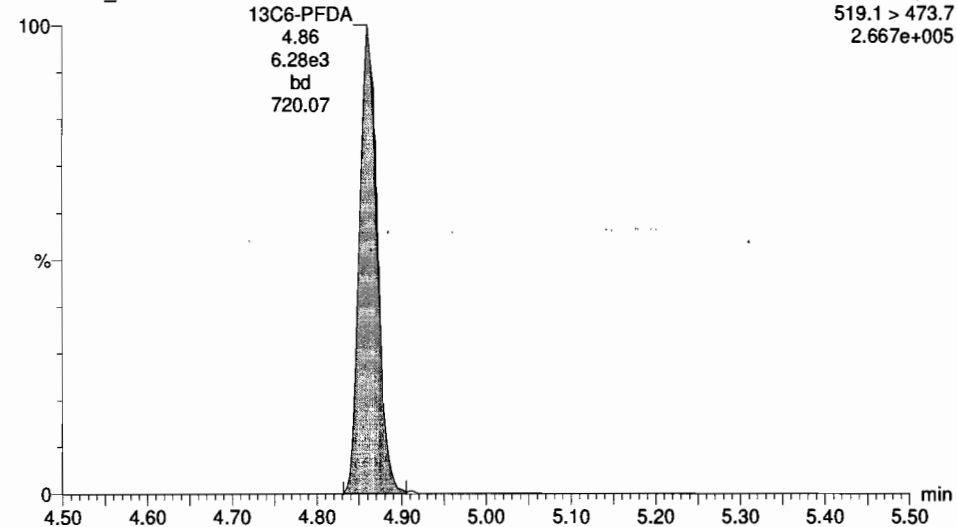
13C9-PFNA

170411G1_4



13C6-PFDA

170411G1_4



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Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

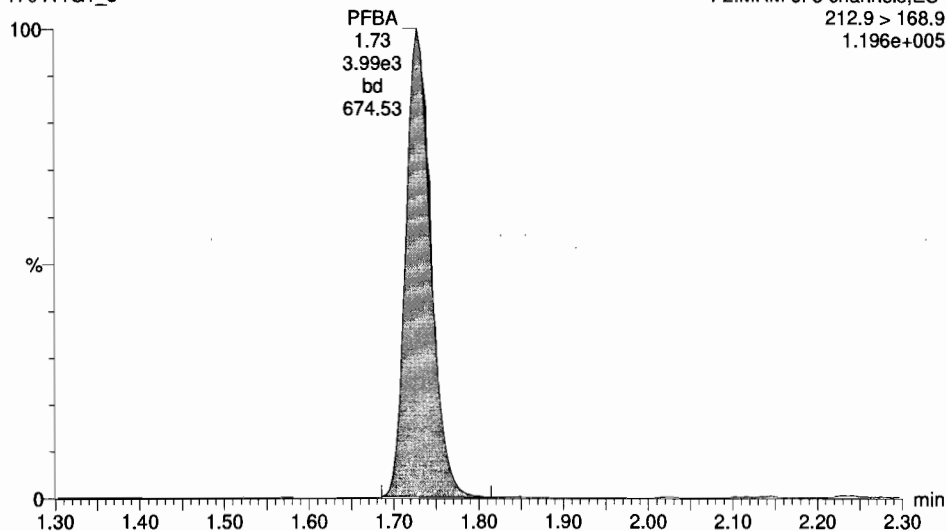
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PFBA

170411G1_5

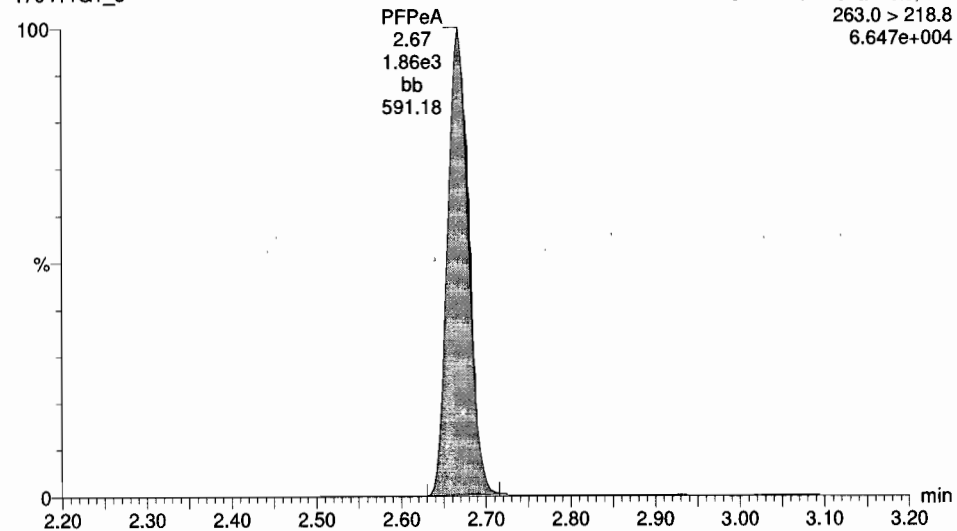
F2:MRM of 3 channels,ES-
212.9 > 168.9
1.196e+005



PFPeA

170411G1_5

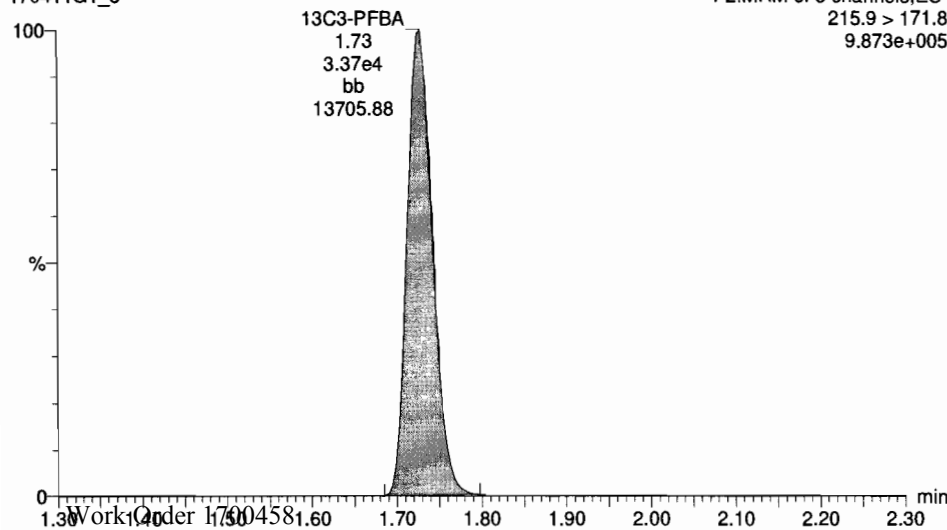
F3:MRM of 4 channels,ES-
263.0 > 218.8
6.647e+004



13C3-PFBA

170411G1_5

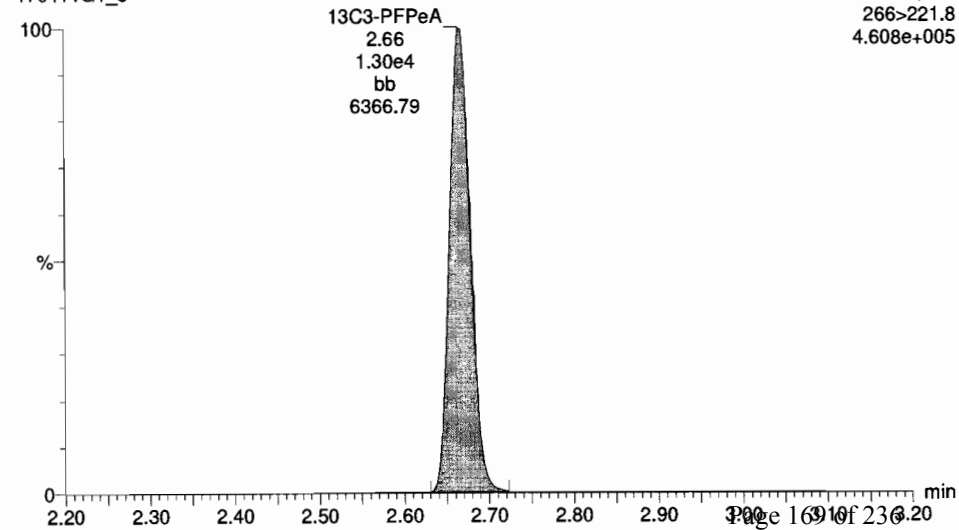
F2:MRM of 3 channels,ES-
215.9 > 171.8
9.873e+005



13C3-PFPeA

170411G1_5

F3:MRM of 4 channels,ES-
266>221.8
4.608e+005



Dataset: Untitled

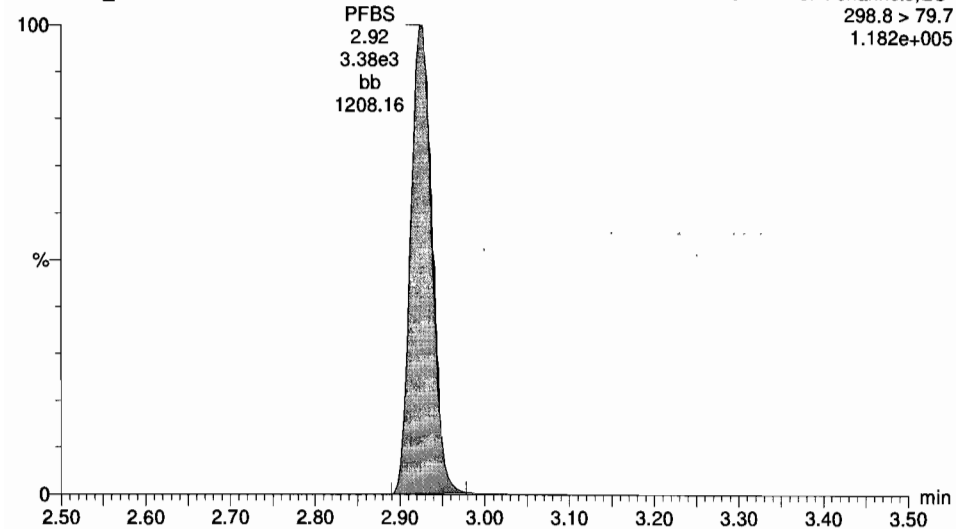
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-4 PFC CS1 17D0724, Description: PFC CS1 17D0724 A, Name: 170411G1_5, Date: 11-Apr-2017, Time: 12:22:04, Instrument: , Lab: , User:

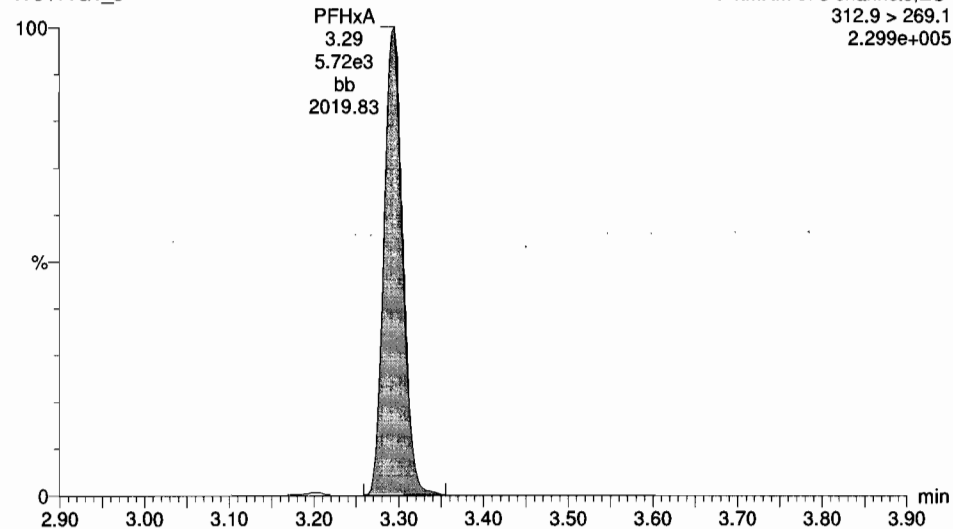
Total PFBS

170411G1_5



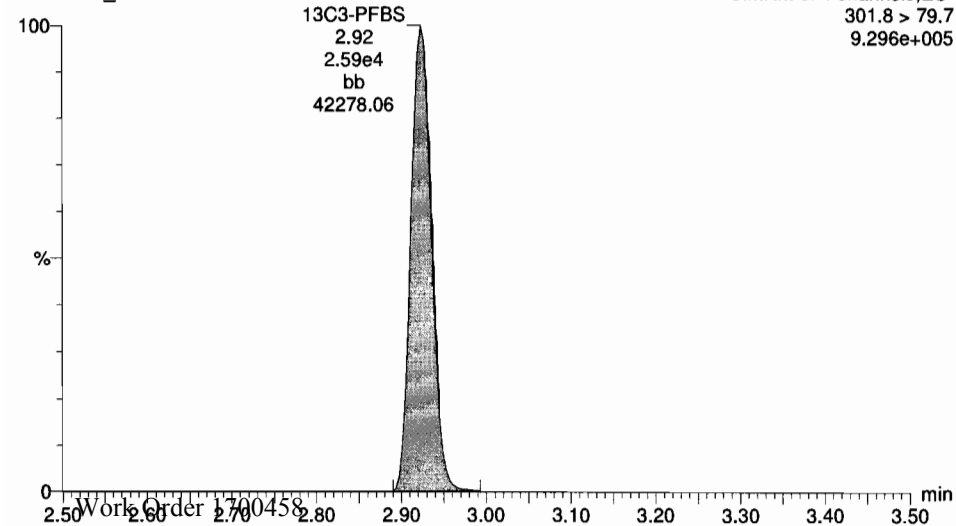
PFHxA

170411G1_5



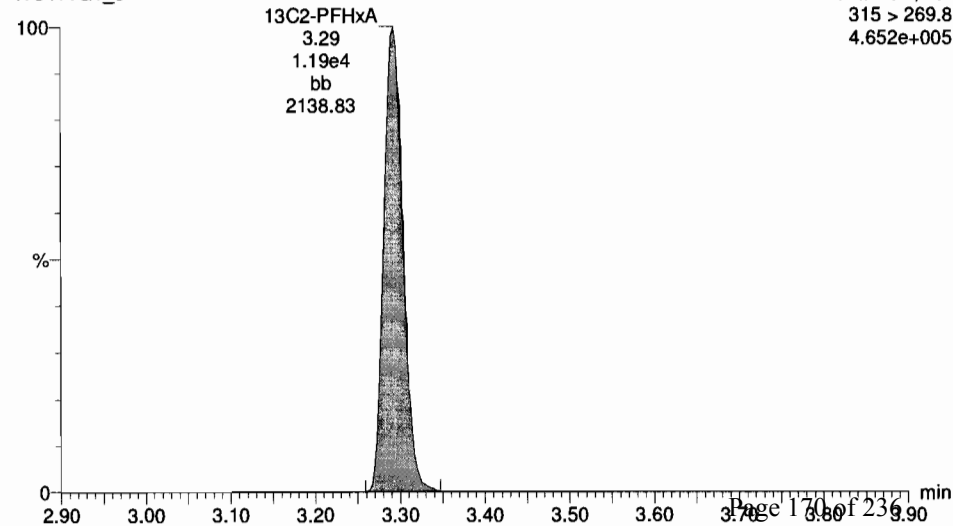
13C3-PFBS

170411G1_5



13C2-PFHxA

170411G1_5



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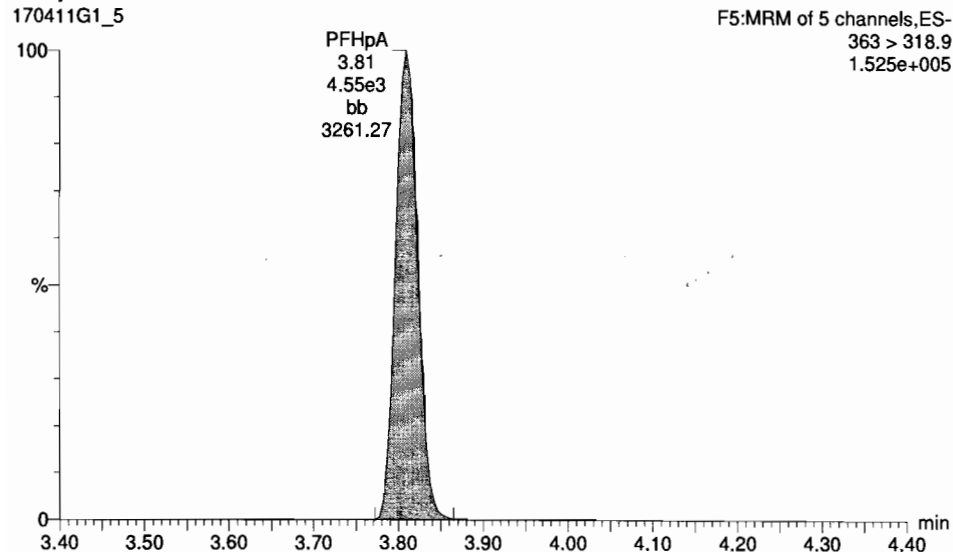
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-4 PFC CS1 17D0724, Description: PFC CS1 17D0724 A, Name: 170411G1_5, Date: 11-Apr-2017, Time: 12:22:04, Instrument: , Lab: , User:

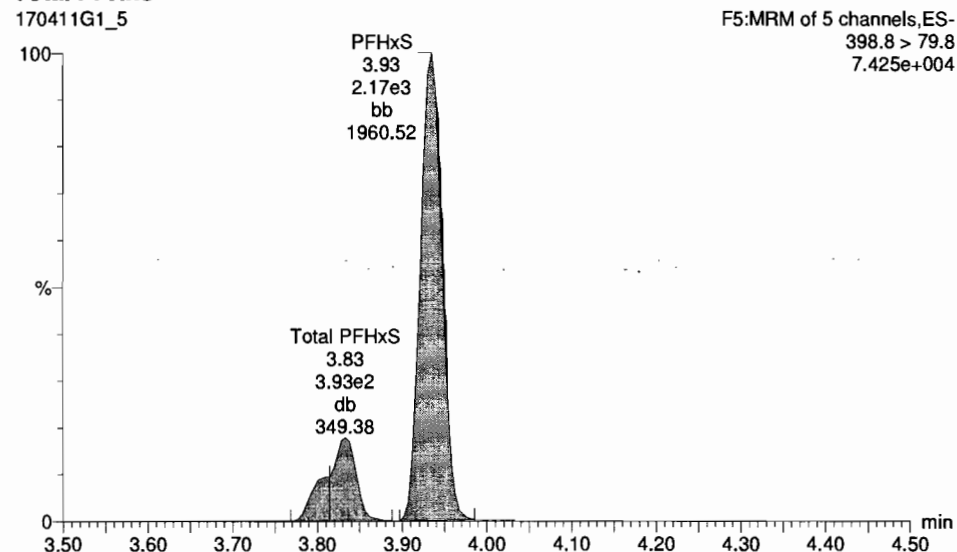
PFHpA

170411G1_5



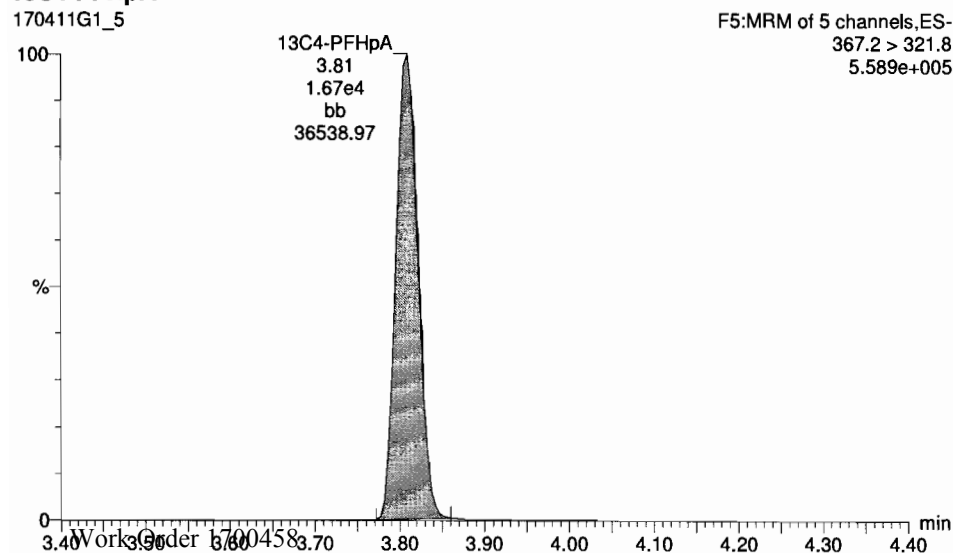
Total PFHxS

170411G1_5



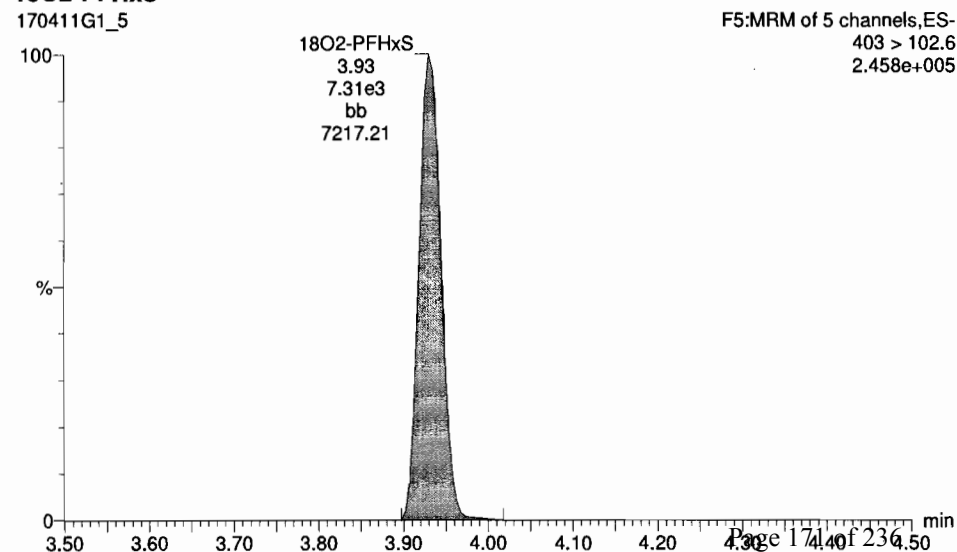
13C4-PFHpA

170411G1_5

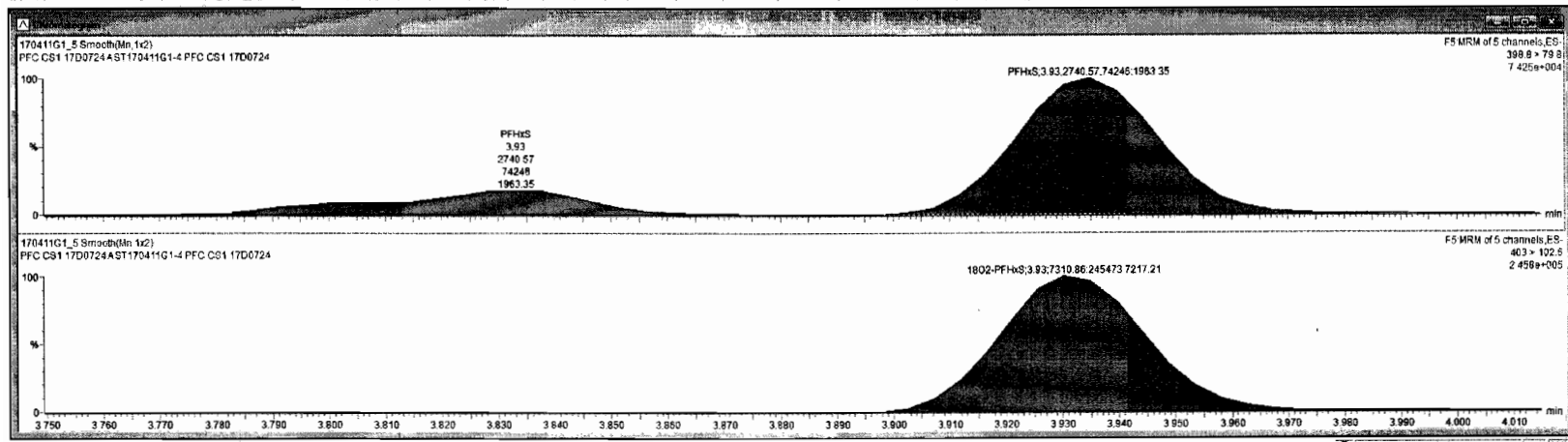


18O2-PFHxS

170411G1_5



Name	Comp	DL	%Dec	EMPC	Abs Res	RSP	RT	#	Cal	BA	YN	RR	Acq Date	Acq Time	Ch Name	D	Sample Text	Factor1	SM	Cal File	WDL
1	PFBA	1.9695853	0.9210	96.0	4.040e3	1.73	11	14				1.000	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
2	PFPeA	1.9081784	0.8244	95.4	1.878e3	2.67	2	15				1.001	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
3	PFBS	1.8468915	0.8133	92.3	3.397e3	2.92	3	16				1.000	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
4	PFHxA	1.8016521		95.1	5.722e3	3.30	4	17				1.001	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
5	PFHpA	1.7932756		99.7	4.549e3	3.51	5	18				1.000	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
6	PFHCS	1.9652904		98.3	2.674e3	3.93	6	19				1.001	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
7	8:2 FTS	2.1670171	0.103	106.4	8.349e2	4.17	7	21				0.987	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
8	PFDA	1.9911336		99.6	4.949e3	4.22	8	21				1.000	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
9	PFH5	1.7446540	0.181	87.2	6.581e2	4.31	9	21				1.021	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
10	PFOS	2.1837749	0.9698	108.2	1.279e3	4.63	10	22				1.001	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			YES
11	PFNA	1.9361603		98.8	3.962e3	4.57	11	23				1.000	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
12	PFDA	1.8857718		92.5	1.359e3	4.86	12	24				1.001	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
13	8:2 FTS	2.2314146	0.8236	111.8	3.472e2	4.84	13	25				0.995	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
14	13C3-PFBA	12.477205	0.00224	99.8	3.370e4	1.168	173	14	26			1.003	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
15	13C3-PFPeA	12.309364	0.00442	98.4	1.364e4	0.379	2.66	15	27			0.829	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
16	13C3-PFBS	12.758515	0.000781	102.1	2.593e4	0.726	2.92	19	27			0.888	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
17	13C2-PFHxA	4.850643	0.00586	99.0	1.189e4	0.860	3.29	17	27			1.000	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
18	13C4-PFHpA	12.812176	0.000871	102.5	1.688e4	0.961	3.91	18	28			0.999	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
19	18O2-PFHxS	12.215294	0.00423	97.7	7.311e3	0.442	3.93	19	28			1.000	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
20	13C3-8:2 FTS	12.739483	0.00305	101.8	1.159e4	1.162	4.18	20	29			0.900	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
21	13C3-PFDA	12.579498	0.00393	100.8	3.185e4	3.233	4.22	21	29			1.001	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO
22	13C3-PFOS	10.871123	0.00252	87.0	6.809e3	1.277	4.83	22	30			0.999	11-Apr-17	12:22:04	ST170411G...	PFC CS1 17D07...	1.0	1.00			NO



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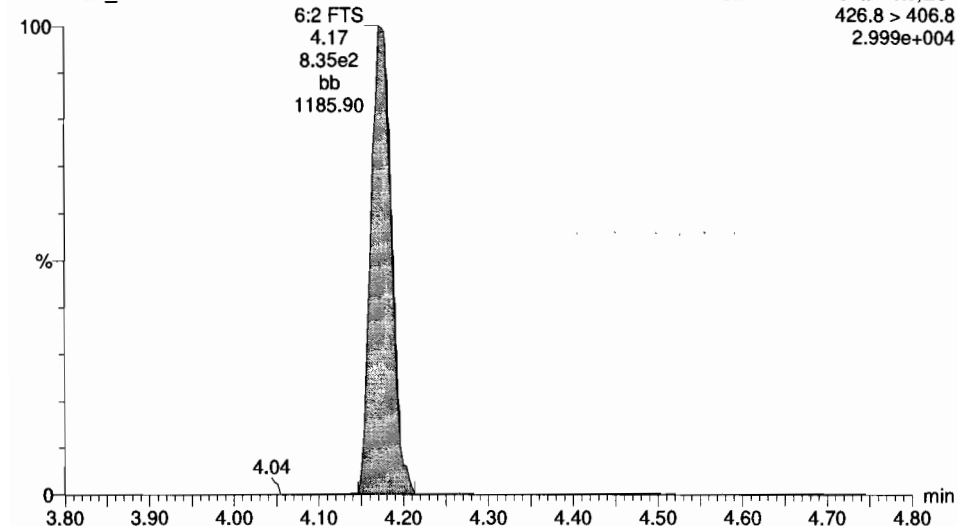
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-4 PFC CS1 17D0724, Description: PFC CS1 17D0724 A, Name: 170411G1_5, Date: 11-Apr-2017, Time: 12:22:04, Instrument: , Lab: , User:

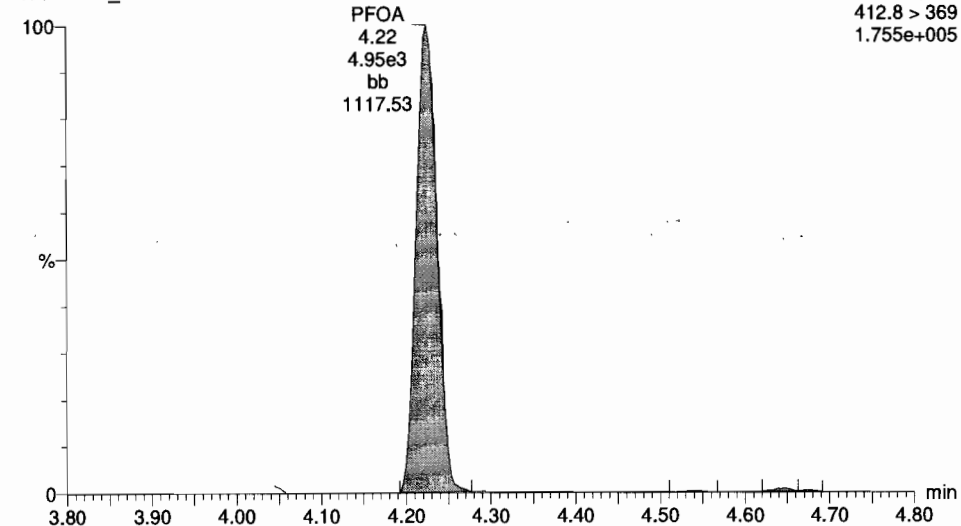
6:2 FTS

170411G1_5



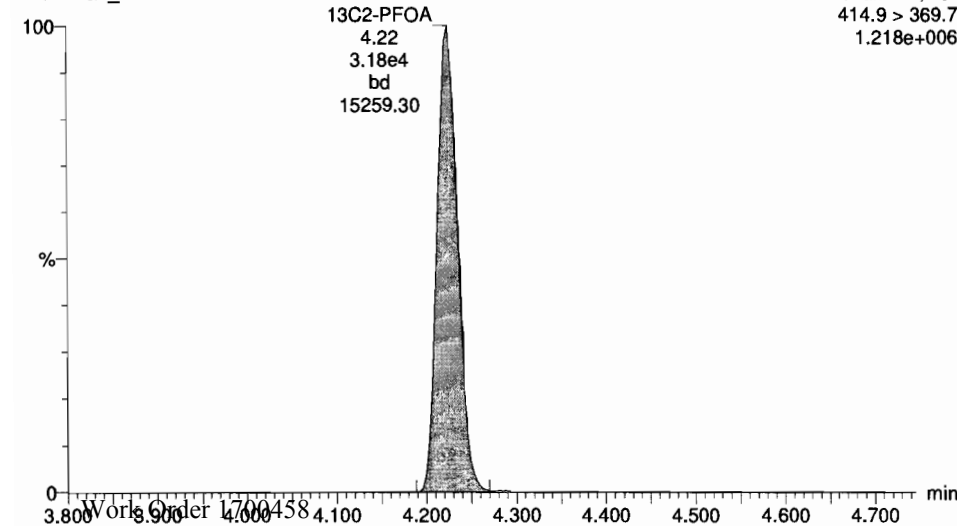
Total PFOA

170411G1_5



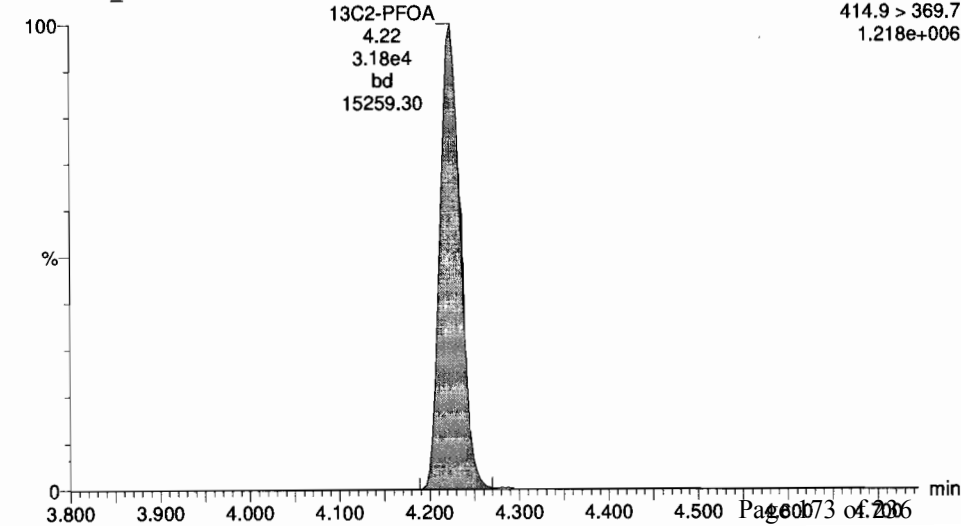
13C2-PFOA

170411G1_5

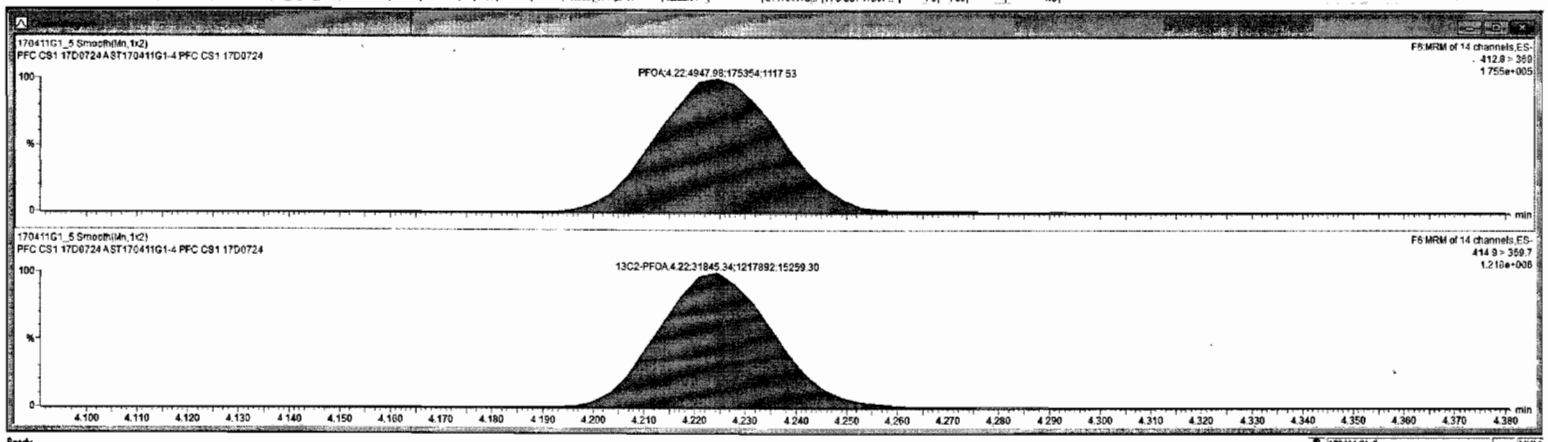


13C2-PFOA

170411G1_5



#	Name	Conc	DL	%Rec	SNPC	Abs Resp	RP	RT	#	SA	Y/N	RET	Acq Date	Acq Time	#	Chk Name	ID	Sample Test	Factor	SNR	Cal File	HMOL
1	PFA	1.668583	0.0216	98.0		4.9483	1.73	1.14				1.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
2	PFpA	1.9081784	0.0244	95.4		1.8783	2.87	2.15				1.001	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
3	PFBS	1.8468816	0.0133	92.3		3.39783	2.92	3.16				1.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
4	PFHxA	1.9010521		95.1		5.72283	3.30	4.17				1.001	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
5	PFHpA	1.7952758		91.7		4.54983	3.81	5.18				1.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
6	PFHxS	1.9062624		95.3		2.74183	3.93	6.19				1.001	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
7	8.2 FTS	2.1678171	0.103	108.4		8.34982	4.17	7.21				8.987	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
8	PFOA	1.9911338		99.6		4.9483	4.22	5.21				1.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
9	PFHpS	1.7448548	0.161	87.2		6.98182	4.31	9.21				1.021	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
10	PFOS	2.1837749	0.0699	109.2		1.27983	4.83	10.22				1.001	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		YES
11	PFOA	1.9361833		98.8		3.96283	4.57	11.23				1.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
12	PFOA	1.8857719		92.8		1.35983	4.86	12.24				1.001	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
13	8.2 FTS	2.2314188	0.0336	111.6		3.47282	4.84	13.25				8.995	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
14	13C3-PFPA	12.477295	0.80224	99.8		3.37044	1.73	14.28				1.003	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
15	13C3-PFPA	12.300364	0.80442	98.4		1.30444	2.75	15.27				8.989	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
16	13C3-PFBS	12.756515	0.800791	102.1		2.59344	6.728	16.27				8.858	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
17	13C3-PFHxA	4.950943	0.09586	99.0		1.18984	0.869	17.27				1.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
18	13C4-PFHxA	12.812178	0.800871	102.5		1.68884	0.981	18.28				8.989	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
19	18O2-PFHxS	12.218294	0.80423	97.7		7.31183	0.442	19.28				1.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
20	13C3-8.2 FTS	12.739462	0.80595	101.9		1.15984	1.182	20.29				8.000	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
21	13C3-PFOA	12.579489	0.80383	108.6		3.18544	3.233	21.29				1.001	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO
22	13C3-PFOS	10.871123	0.80252	87.0		6.89983	1.271	22.39				8.999	11-Apr-17	12:22:04			ST170411G	PFC CS1 17D07	1.0	1.00		NO



Dataset: Untitled

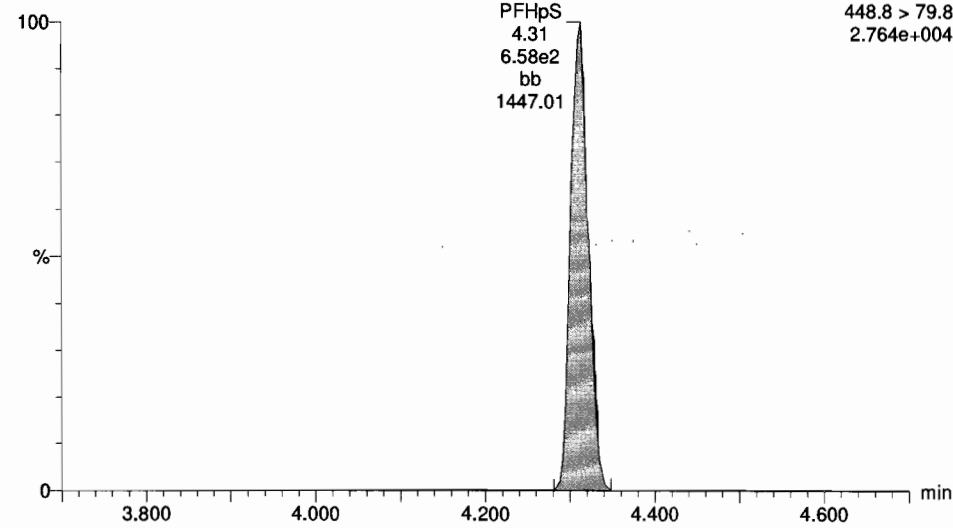
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-4 PFC CS1 17D0724, Description: PFC CS1 17D0724 A, Name: 170411G1_5, Date: 11-Apr-2017, Time: 12:22:04, Instrument: , Lab: , User:

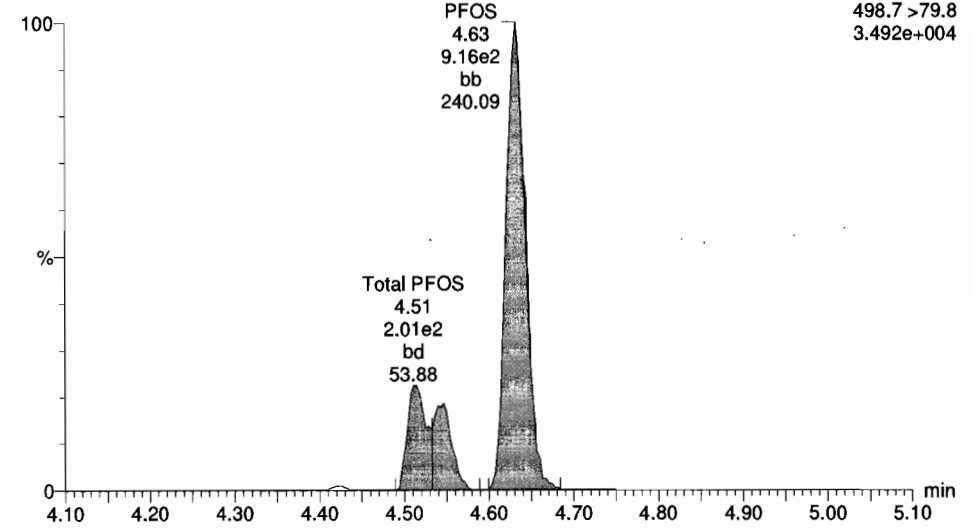
PFHpS

170411G1_5



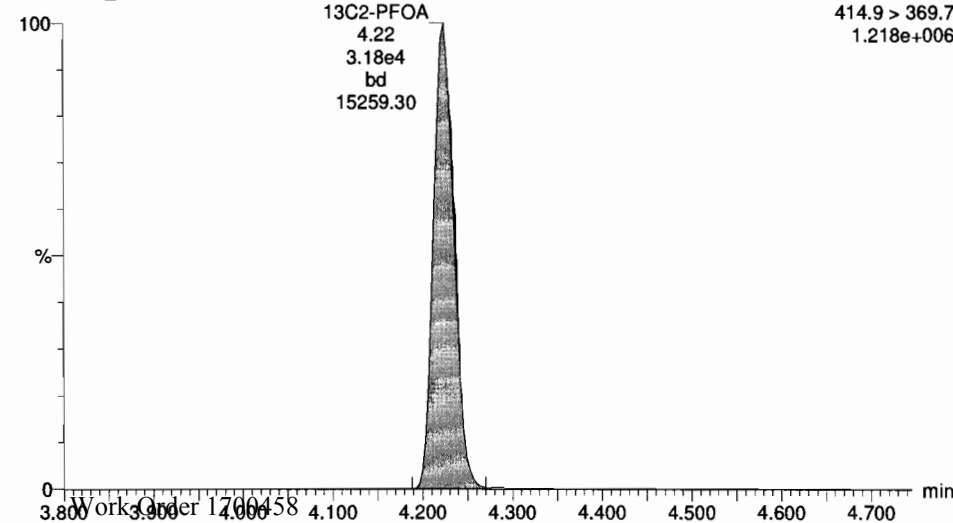
Total PFOS

170411G1_5



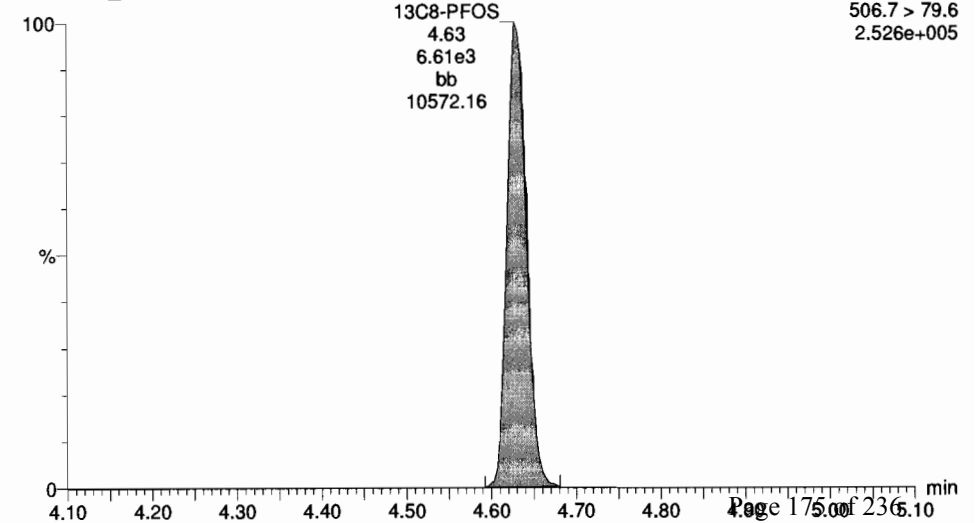
13C2-PFOA

170411G1_5



13C8-PFOS

170411G1_5

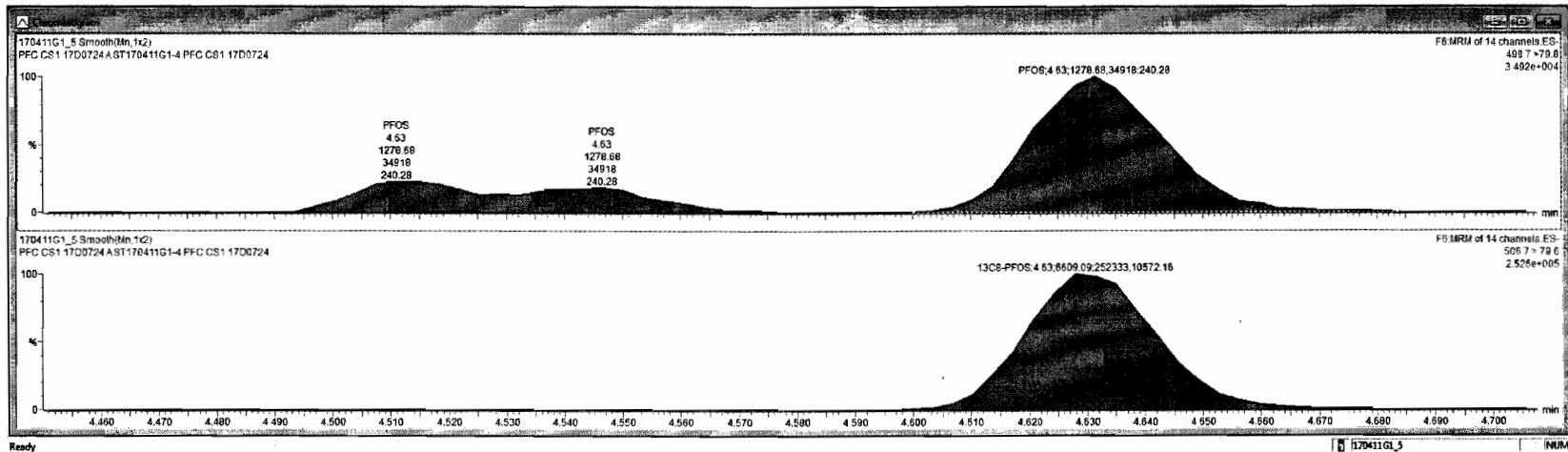


Targetlynx 170411G1_5

File Edit View Display Processing Window Help

170411G1_5-ST170411G1-4-PFC CS1 1700724 -PFC CS1 1700724 A

#	Name	Conc.	DL	%Rec	FWPC	Abs Resp	RRF	RT	#	SW	RA	Y/N	RR1	Acq Date	Acq Time	% Chk	Method	Sample Text	Factor1	SW	Cal File	MOL
1	PFBA	1.9605853	0.0210	95.0		4.04063	1.73	14					1.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
2	PFBA	1.9081784	0.0244	95.4		1.87563	2.67	2	15				1.001	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
3	PFBS	1.8468815	0.0133	92.3		3.39763	2.92	3	16				1.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
4	PFNA	1.9010521		95.1		5.72263	3.30	4	17				1.001	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
5	PFNA	1.7802750		99.7		4.54963	3.81	5	18				1.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
6	PFNA	1.9062024		95.3		2.74163	3.93	6	19				1.001	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
7	8:2 PFS	2.1678171	0.103	105.4		8.34962	4.17	7	21				0.887	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
8	PFDA	1.9911330		99.6		4.94863	4.22	8	21				1.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
9	PFNA	1.7448546	0.181	87.2		6.58162	4.31	9	21				1.021	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
10	PFDA	2.1637740	0.0068	106.2		1.27962	4.83	10	22				1.001	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		YES
11	PFNA	1.9361603		96.8		3.96263	4.87	11	23				1.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
12	PFDA	1.8557718		92.8		1.35963	4.86	12	24				1.001	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
13	8:2 PFS	2.2314146	0.0236	111.6		3.47262	4.84	13	25				0.995	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
14	13C1-PFBA	12.477205	0.00224	99.8		3.37064	1.66	1.73	14	26			1.003	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
15	13C1-PFPA	12.300364	0.00442	98.4		1.38464	0.379	2.66	15	27			0.809	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
16	13C1-PFBS	12.758515	0.000701	102.1		2.59364	0.725	2.82	16	27			0.888	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
17	13C1-PFNA	4.9589043	0.00036	99.0		1.19964	0.660	3.29	17	27			1.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
18	13C1-PFNA	12.812176	0.00871	102.3		1.85664	0.861	3.81	18	28			0.999	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
19	13C1-PFNA	12.215294	0.00423	97.7		7.31163	0.442	3.93	19	28			1.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
20	13C1-8:2 PFS	12.739463	0.00305	101.9		1.15964	1.162	4.18	20	29			0.000	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
21	13C1-PFDA	12.578496	0.00203	100.6		3.19564	3.233	4.22	21	29			1.001	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO
22	13C1-PFDS	10.671123	0.00282	87.0		6.60963	1.277	4.63	22	30			0.998	11-Apr-17	12:22:04		ST170411G...	PFC CS1 17007...	1.0	1.00		NO



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

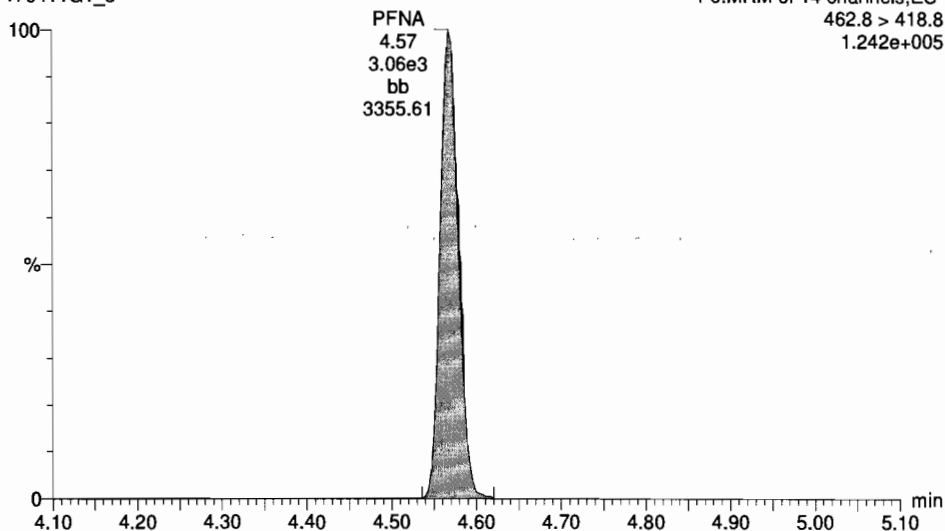
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-4 PFC CS1 17D0724, Description: PFC CS1 17D0724 A, Name: 170411G1_5, Date: 11-Apr-2017, Time: 12:22:04, Instrument: , Lab: , User:

PFNA

170411G1_5

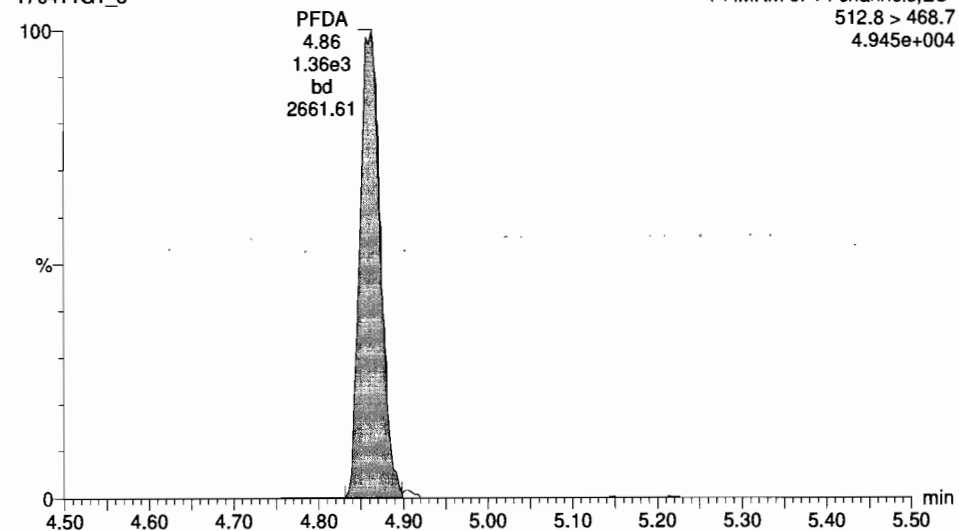
F6:MRM of 14 channels,ES-
462.8 > 418.8
1.242e+005



PFDA

170411G1_5

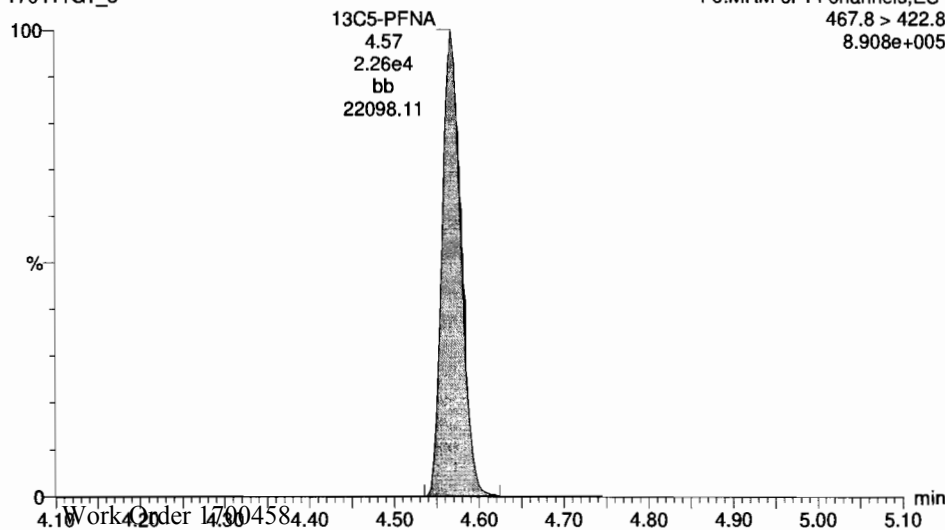
F7:MRM of 14 channels,ES-
512.8 > 468.7
4.945e+004



13C5-PFNA

170411G1_5

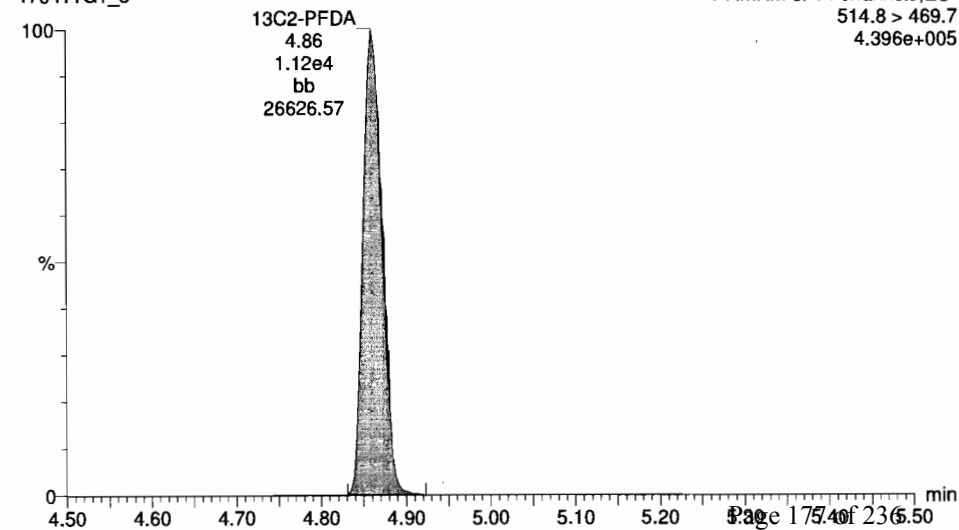
F6:MRM of 14 channels,ES-
467.8 > 422.8
8.908e+005



13C2-PFDA

170411G1_5

F7:MRM of 14 channels,ES-
514.8 > 469.7
4.396e+005



Dataset: Untitled

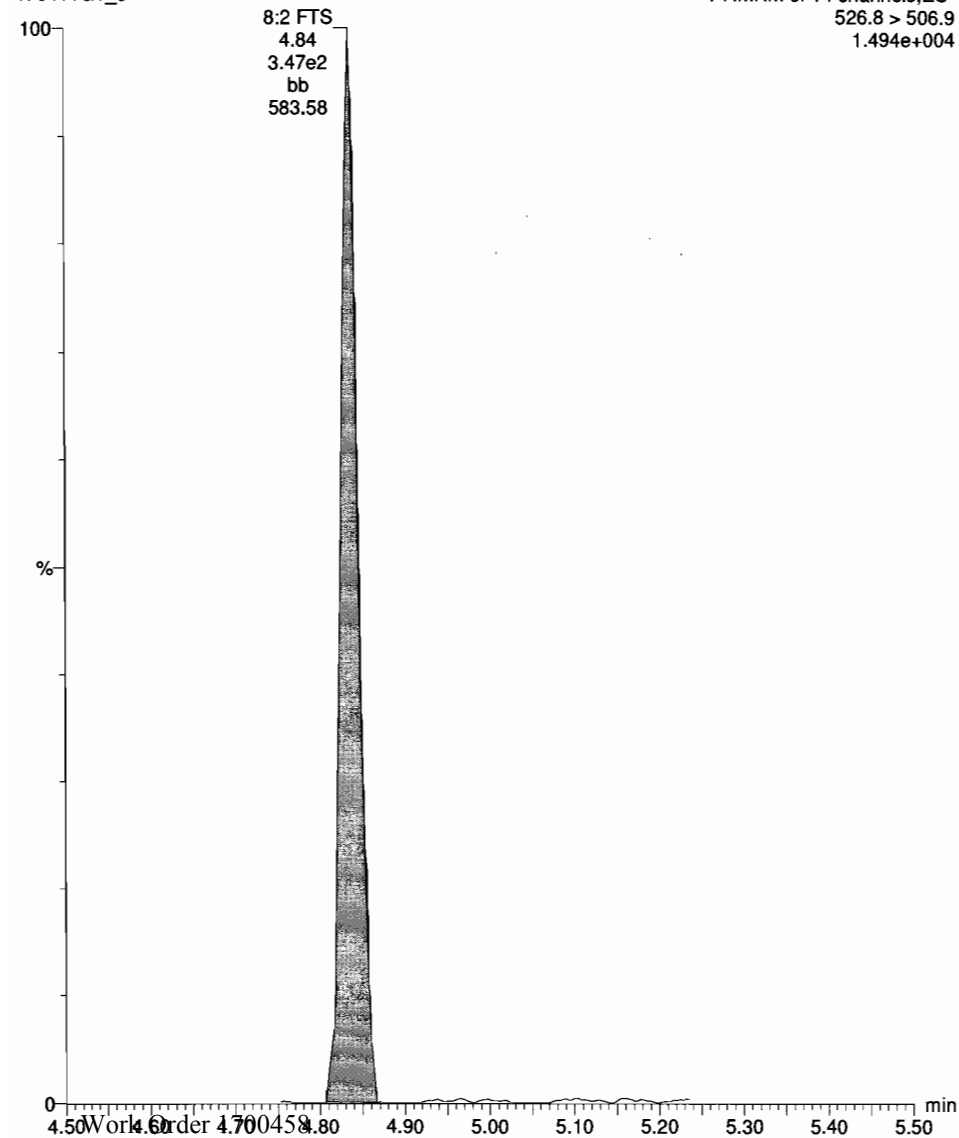
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-4 PFC CS1 17D0724, Description: PFC CS1 17D0724 A, Name: 170411G1_5, Date: 11-Apr-2017, Time: 12:22:04, Instrument: , Lab: , User:

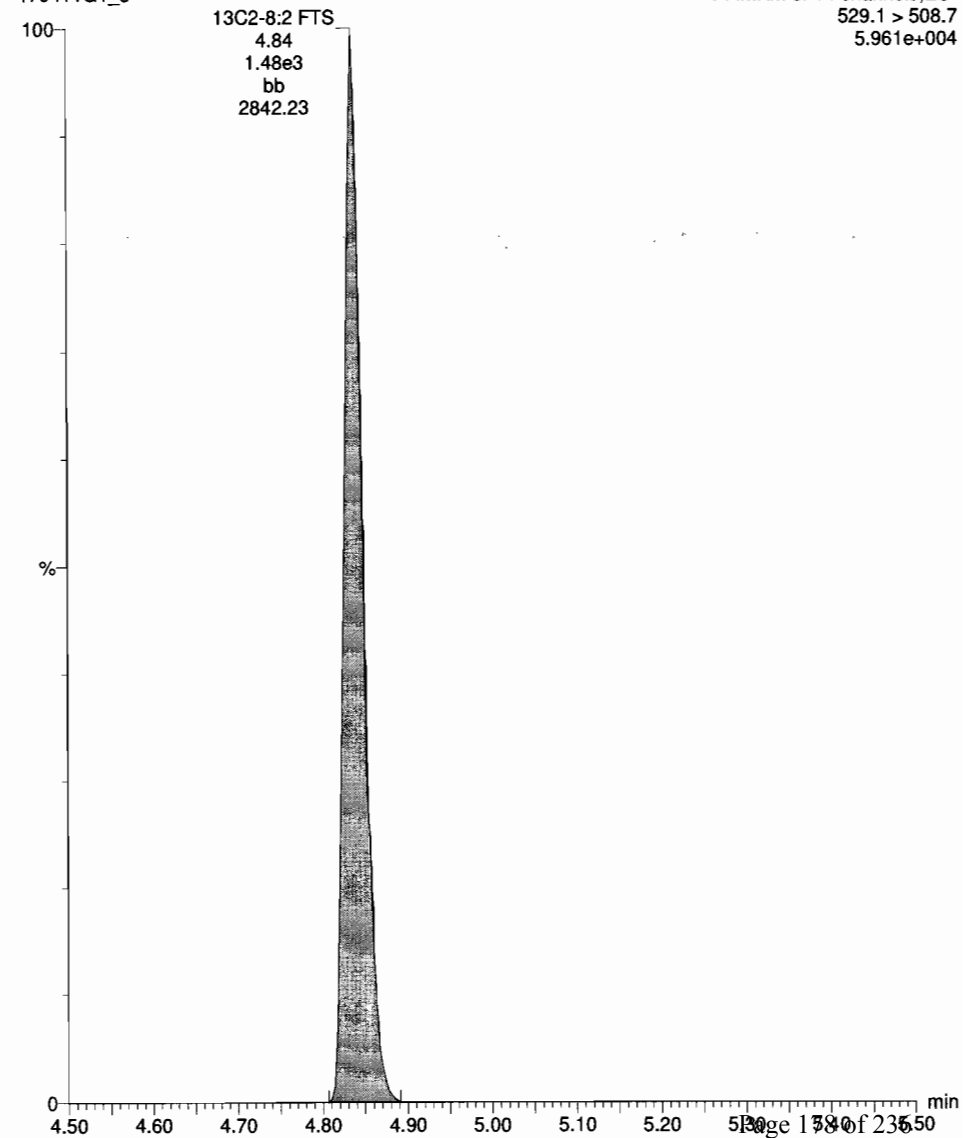
8:2 FTS

170411G1_5



13C2-8:2 FTS

170411G1_5



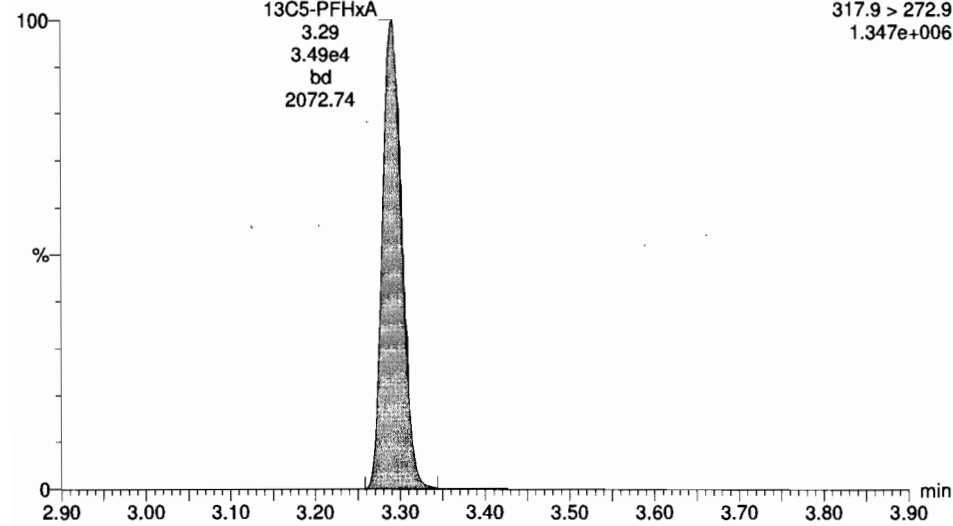
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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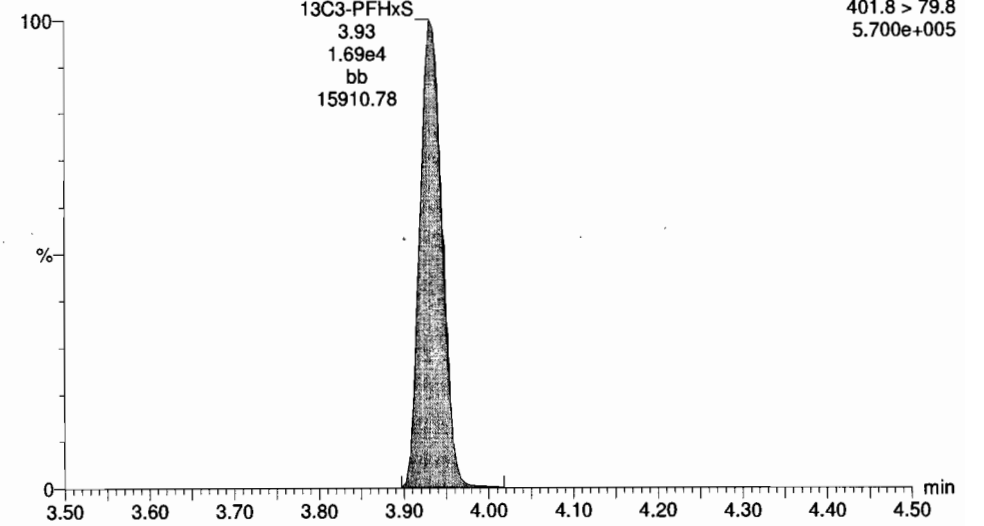
13C5-PFHxA

170411G1_5



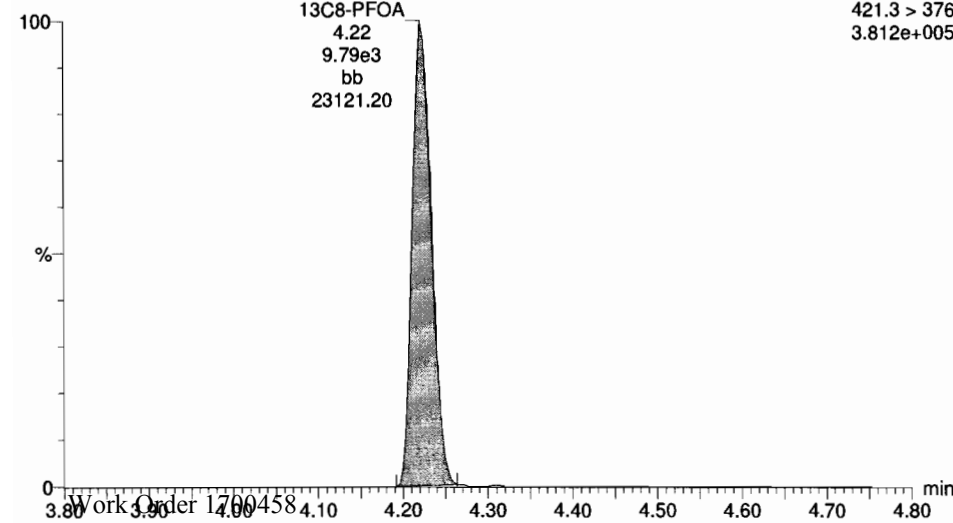
13C3-PFHxS

170411G1_5



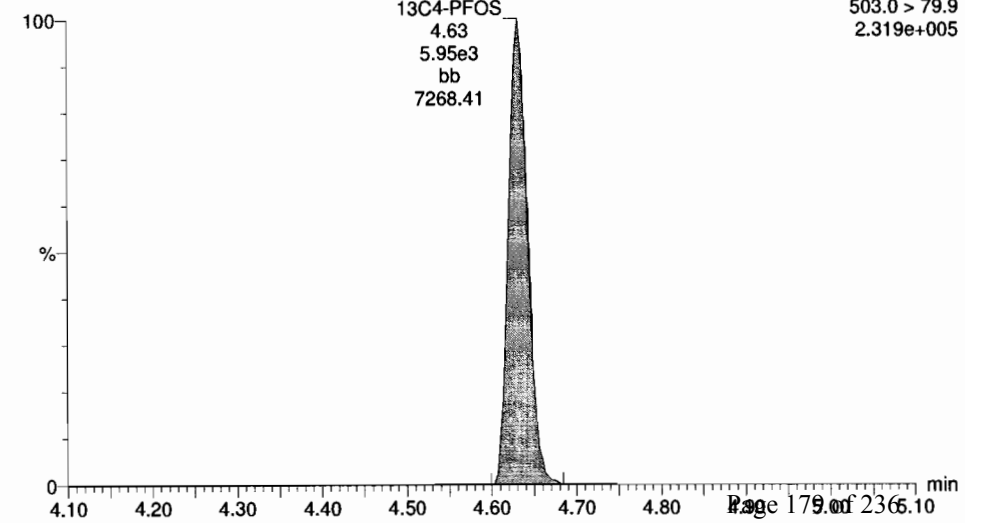
13C8-PFOA

170411G1_5



13C4-PFOS

170411G1_5



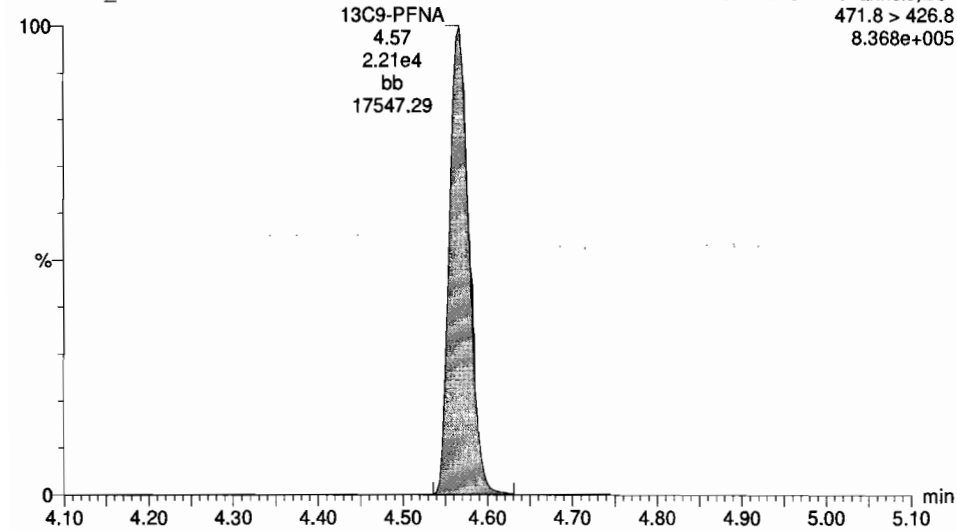
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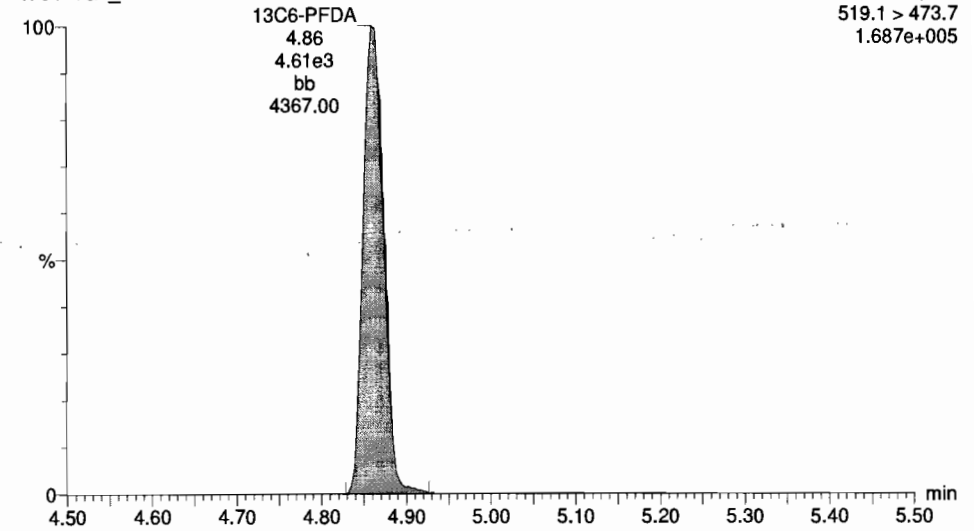
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170411G1_5



13C6-PFDA

170411G1_5



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

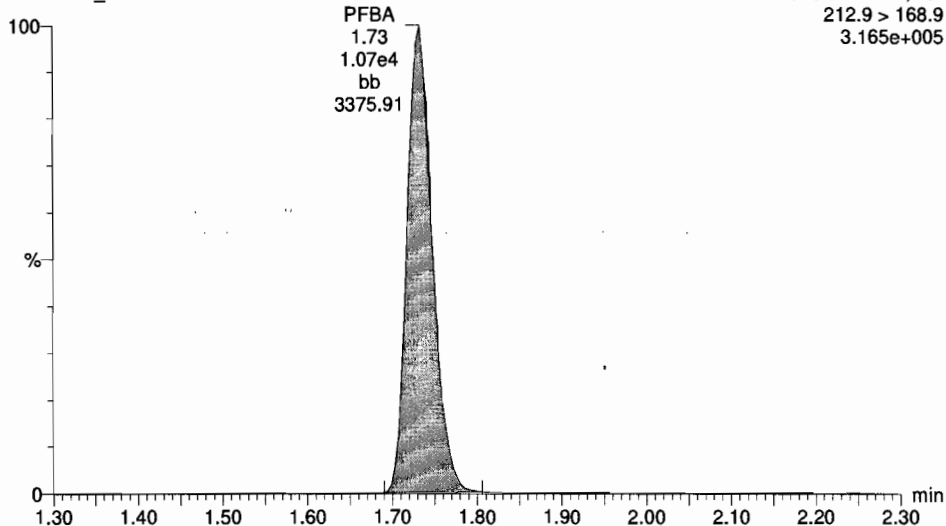
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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PFBA

170411G1_6

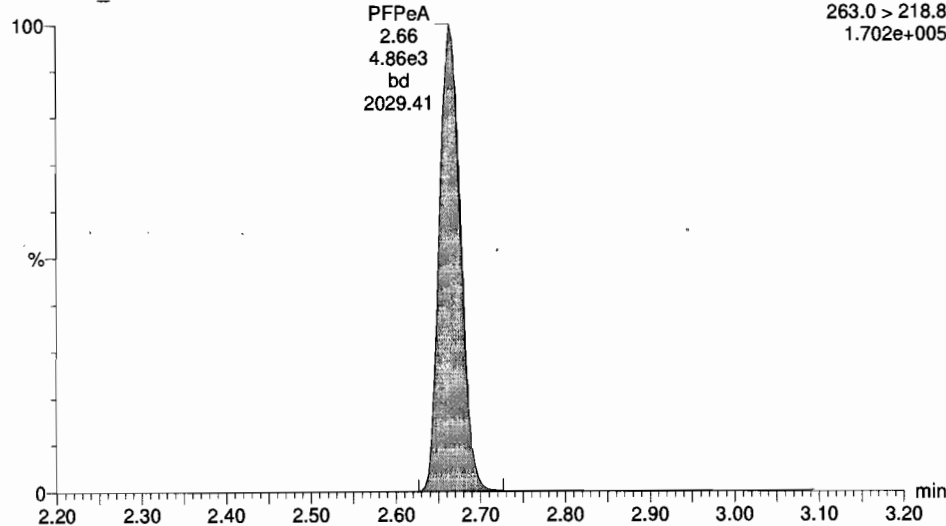
F2:MRM of 3 channels,ES-
212.9 > 168.9
3.165e+005



PFPeA

170411G1_6

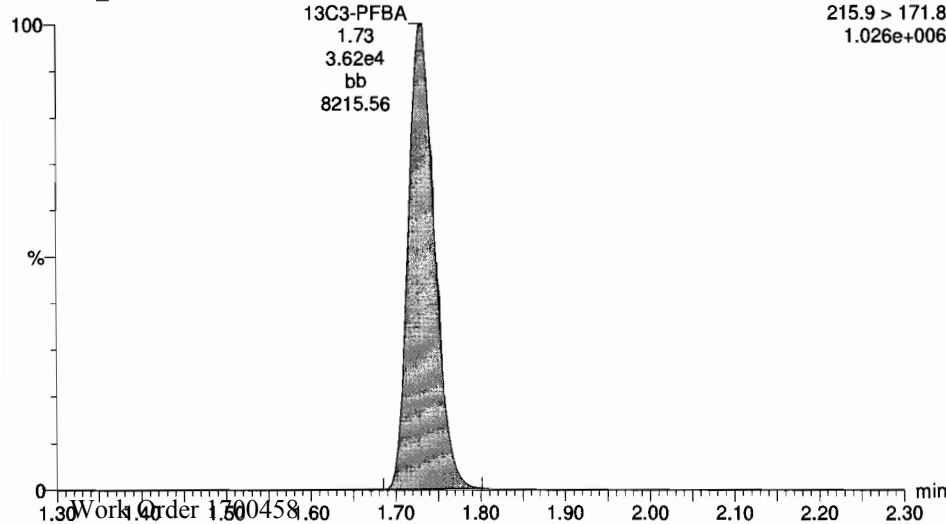
F3:MRM of 4 channels,ES-
263.0 > 218.8
1.702e+005



13C3-PFBA

170411G1_6

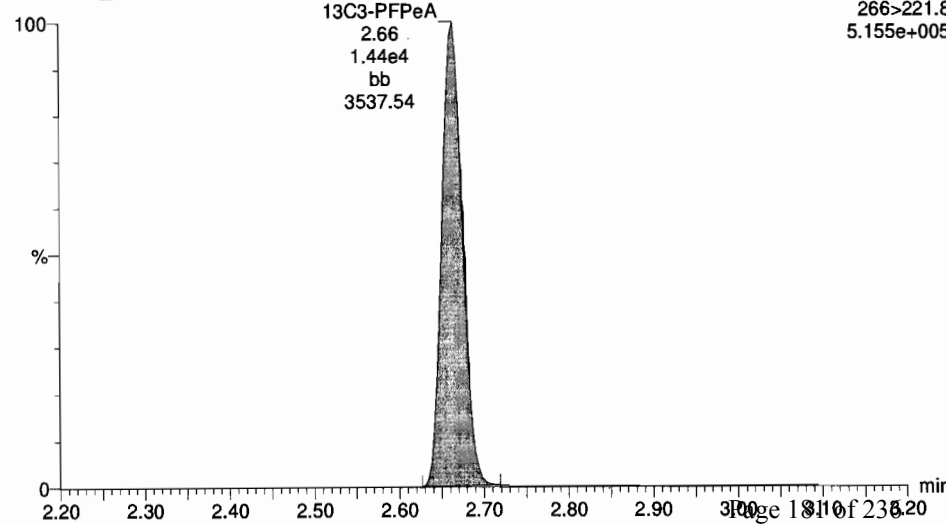
F2:MRM of 3 channels,ES-
215.9 > 171.8
1.026e+006



13C3-PFPeA

170411G1_6

F3:MRM of 4 channels,ES-
266 > 221.8
5.155e+005



Dataset: Untitled

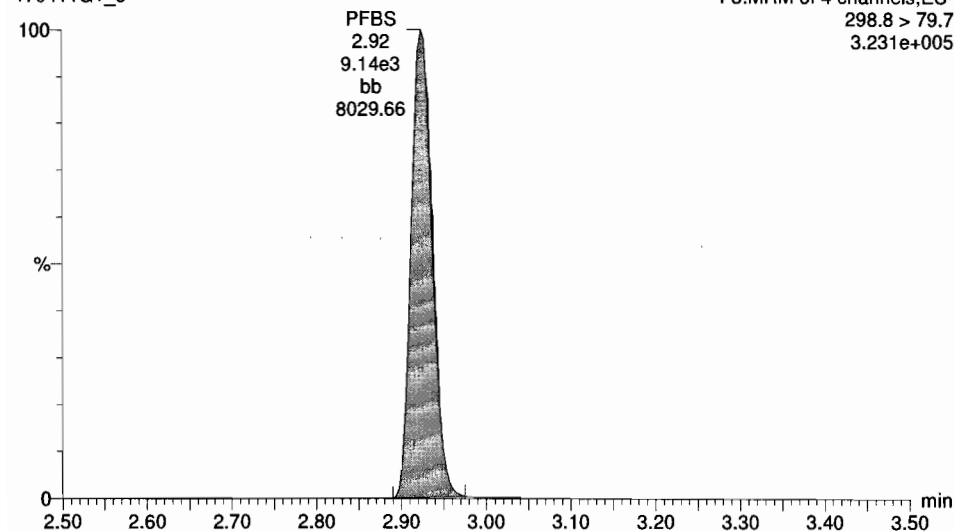
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

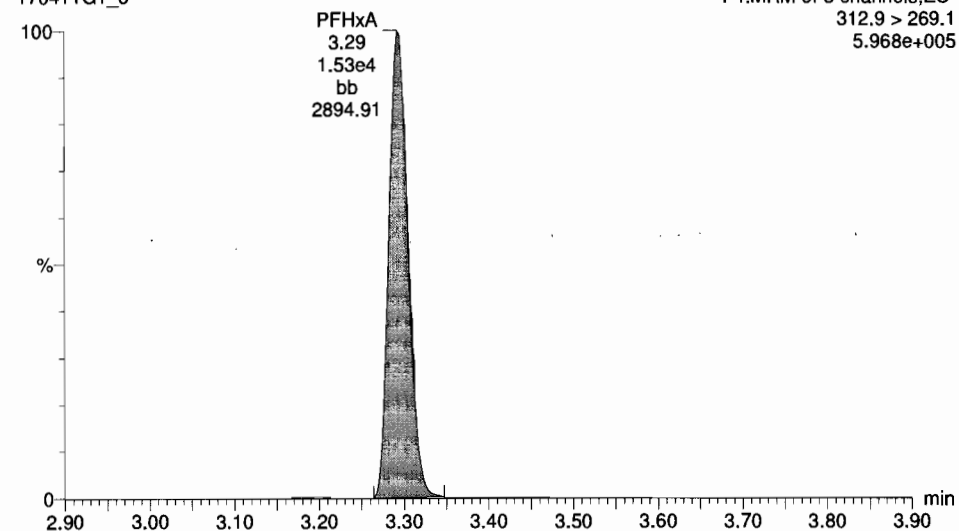
Total PFBS

170411G1_6



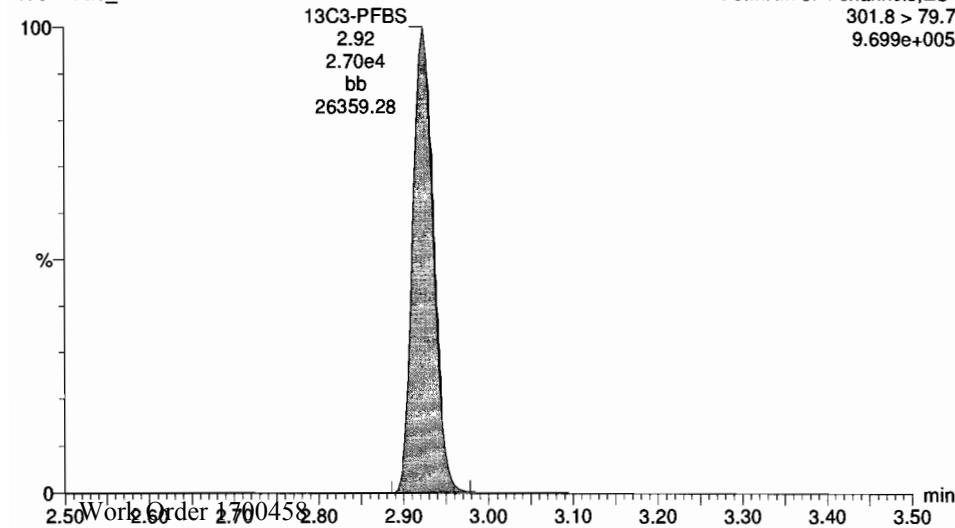
PFHxA

170411G1_6



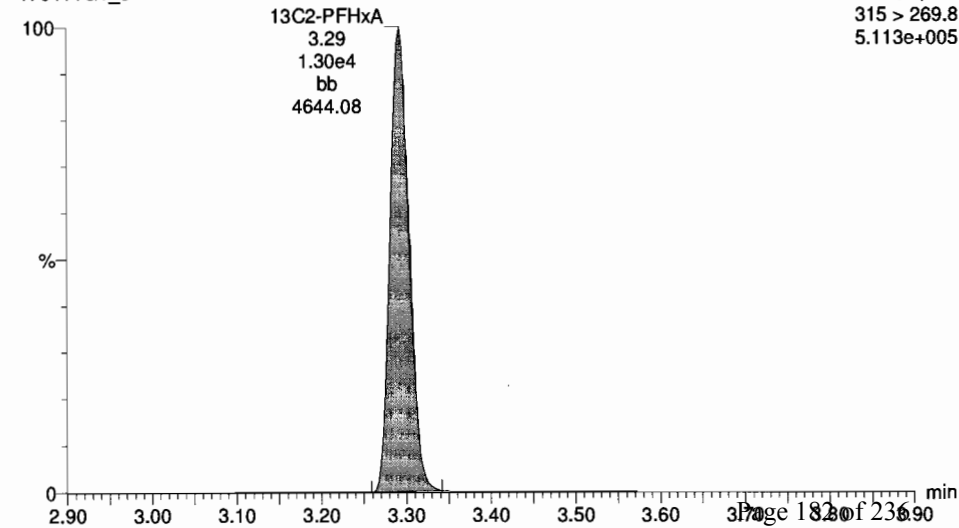
13C3-PFBS

170411G1_6



13C2-PFHxA

170411G1_6



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

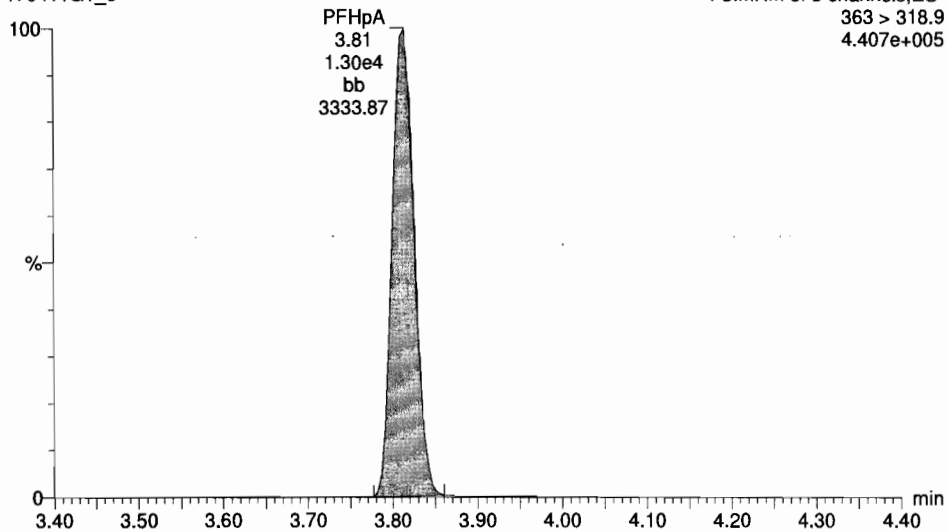
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

PFHpA

170411G1_6

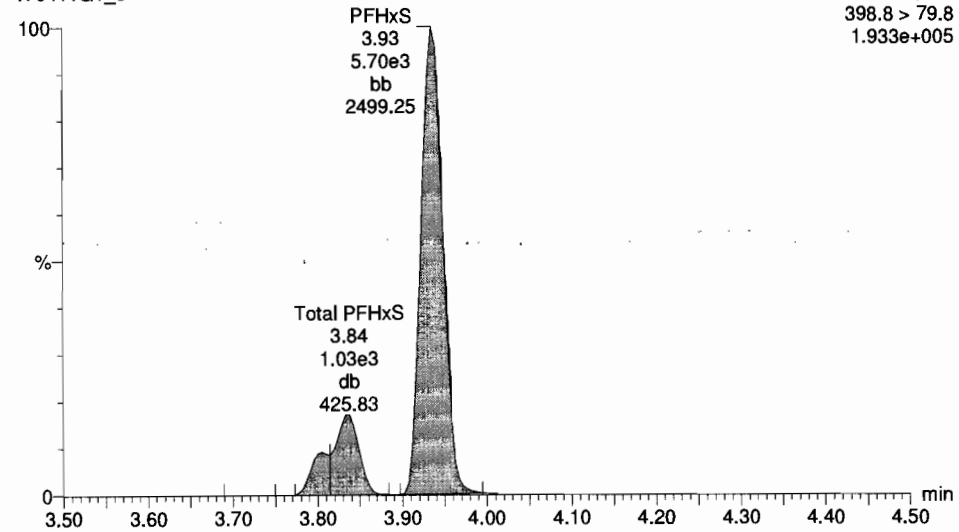
F5:MRM of 5 channels,ES-
363 > 318.9
4.407e+005



Total PFHxS

170411G1_6

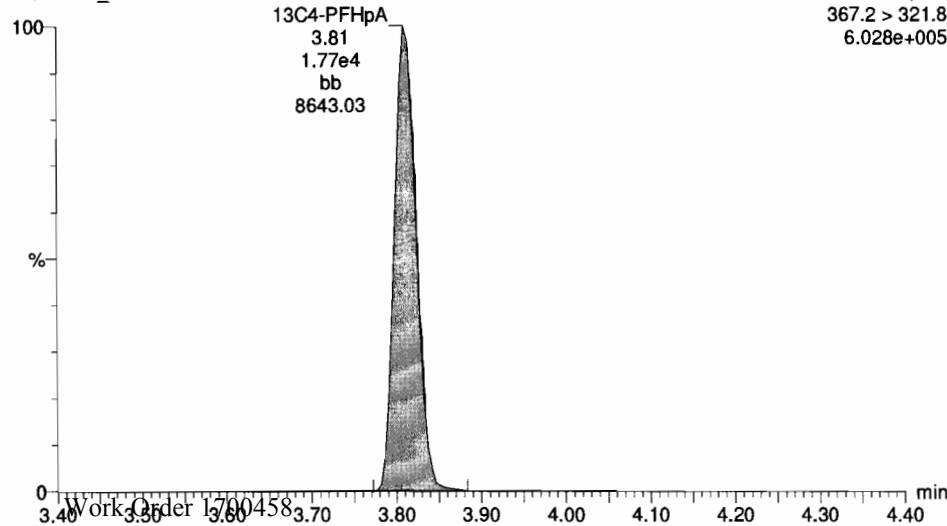
F5:MRM of 5 channels,ES-
398.8 > 79.8
1.933e+005



13C4-PFHpA

170411G1_6

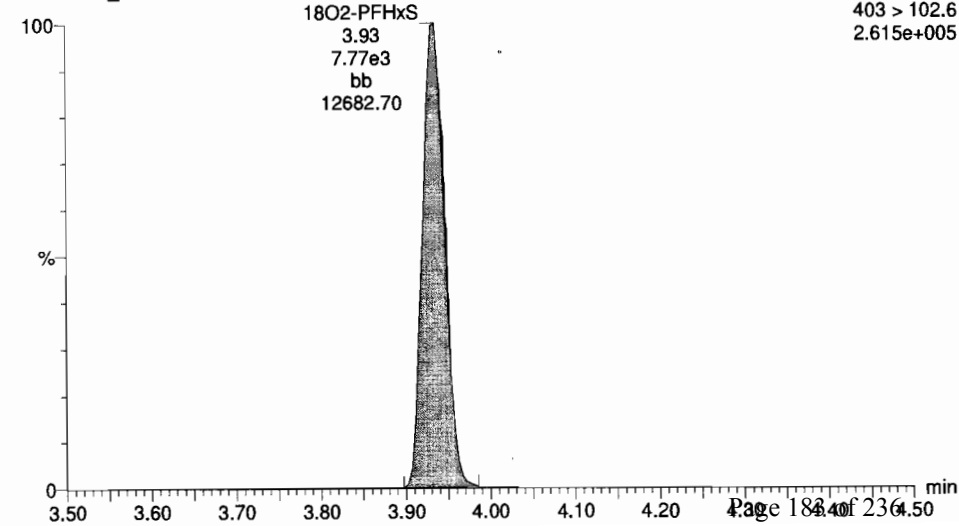
F5:MRM of 5 channels,ES-
367.2 > 321.8
6.028e+005



18O2-PFHxS

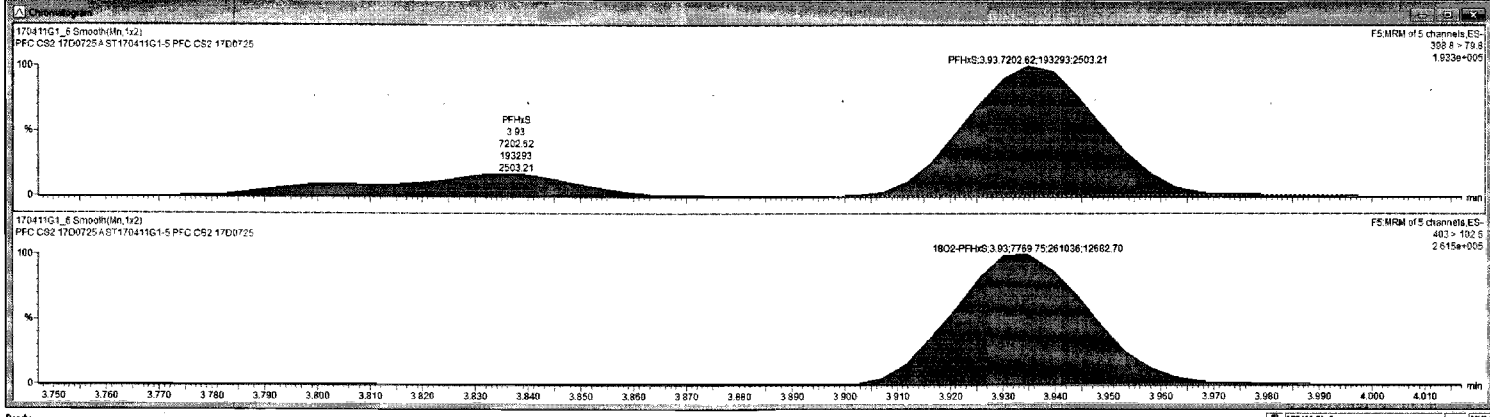
170411G1_6

F5:MRM of 5 channels,ES-
403 > 102.6
2.615e+005





Name	Conc.	DA	%Rec	RPFC	Abn.Prec	RF	RT	SA	SA	VM	RTT	Acq Date	Acq Time	PC	Chk/No	D	Sample No.	Factor	STN	Chk/Fa	HL
1 PFBA	4.8329676	0.0174	95.7		1.08264	1.73	1	14			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
2 PFPaA	4.4241833	0.0217	88.5		4.68343	2.86	2	15			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
3 PPFBS	4.7710451	0.0111	95.4		9.20343	2.92	3	16			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
4 PFPaA	4.7739164		95.6		1.52884	3.29	4	17			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
5 PFPaA	4.8487917		95.9		1.30444	3.61	5	18			1.001	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
6 PFPaA	4.7802015		95.8		7.90547	3.93	6	18			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
7 6.2.FTS	4.7202281	0.162	94.5		2.07243	4.18	7	21			0.995	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		YES
8 PFDa	5.0091122		100.2		1.32984	4.22	8	21			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		YES
9 PFPaS	4.7649119	0.171	95.3		2.11043	4.31	9	21			1.021	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		YES
10 PFDs	3.0415037	0.3744	100.0		3.95043	4.63	10	22			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		YES
11 PFDa	4.7342273	0.00999	94.7		8.48643	4.57	11	23			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		YES
12 PFDa	5.5250030		116.5		3.90643	4.98	12	24			1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
13 8.2.FTS	4.2969141	0.9987	85.3		7.07462	4.64	13	25			0.996	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		YES
14 13C3.PFBA	12.820960	0.00379	102.6		3.85044	1.182	1.73	14	26		1.003	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
15 13C3.PFPaA	12.927902	0.00510	103.4		1.45064	0.379	2.86	15	27		0.606	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
16 13C3.PPFBS	12.589534	0.00187	100.0		2.71064	0.728	2.92	16	27		0.888	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
17 13C3.PFPaA	5.1837847	0.00273	102.1		1.29984	0.860	3.29	17	27		1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
18 13C3.PFPaA	13.171137	0.00383	105.4		1.77284	0.961	3.61	18	28		0.960	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
19 1802.PFPaS	12.964786	0.00244	100.6		7.77043	0.442	3.93	19	28		1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
20 13C2-8.2.FTS	11.224464	0.00973	89.8		1.16984	1.182	4.18	20	29		0.900	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
21 13C3.PFDa	12.132508	0.00637	97.1		3.51584	3.233	4.22	21	29		1.000	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO
22 13C3.PFDs	13.019659	0.00343	104.2		6.41643	1.277	4.63	22	30		0.999	11-Apr-17	12:34:40			ST170411G	PFCS2 17D07	1.0	1.00		NO



Dataset: Untitled

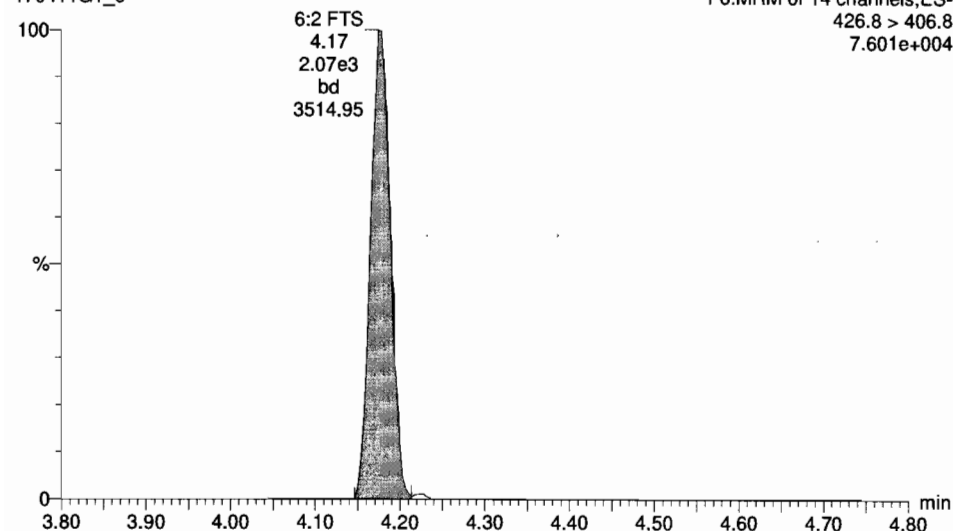
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

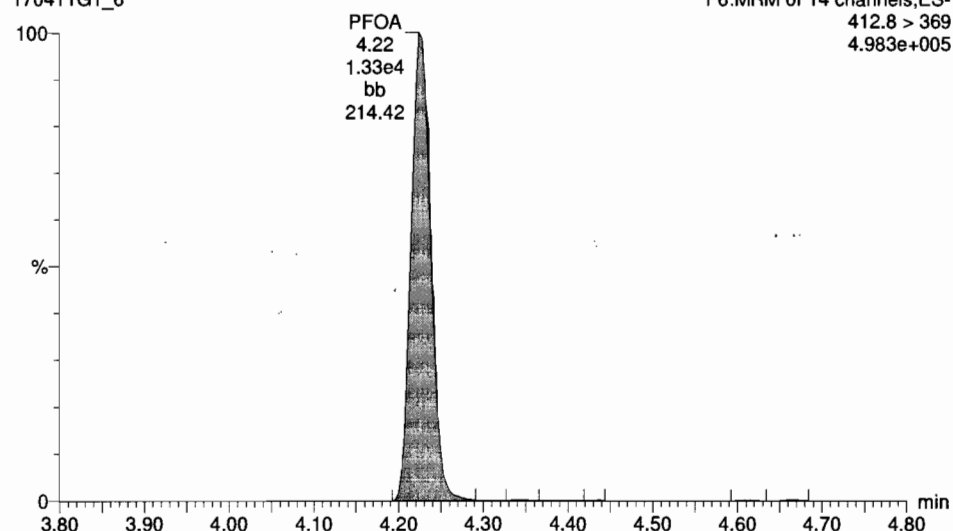
6:2 FTS

170411G1_6



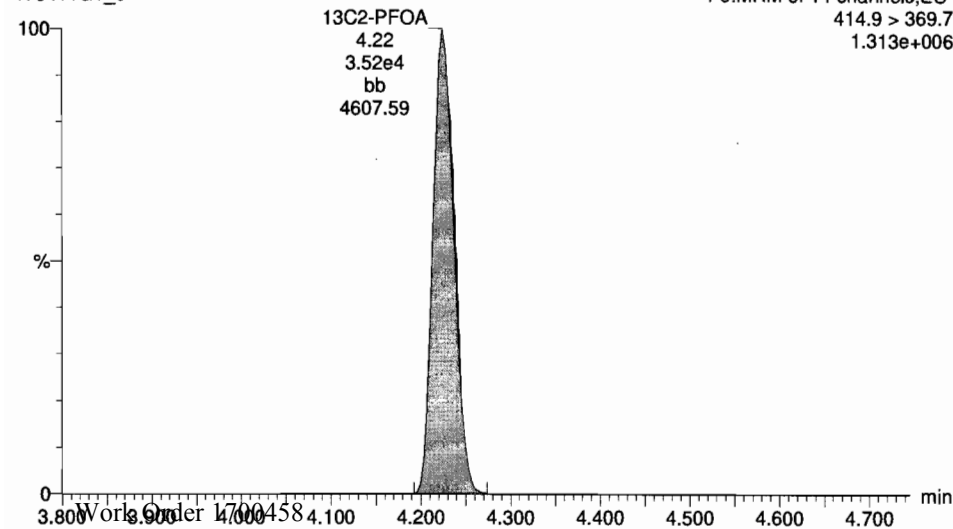
Total PFOA

170411G1_6



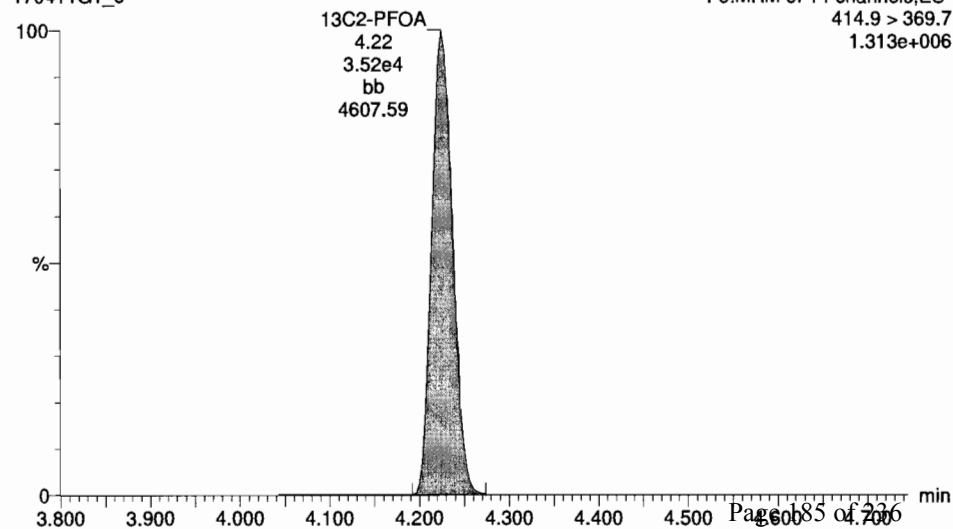
13C2-PFOA

170411G1_6



13C2-PFOA

170411G1_6



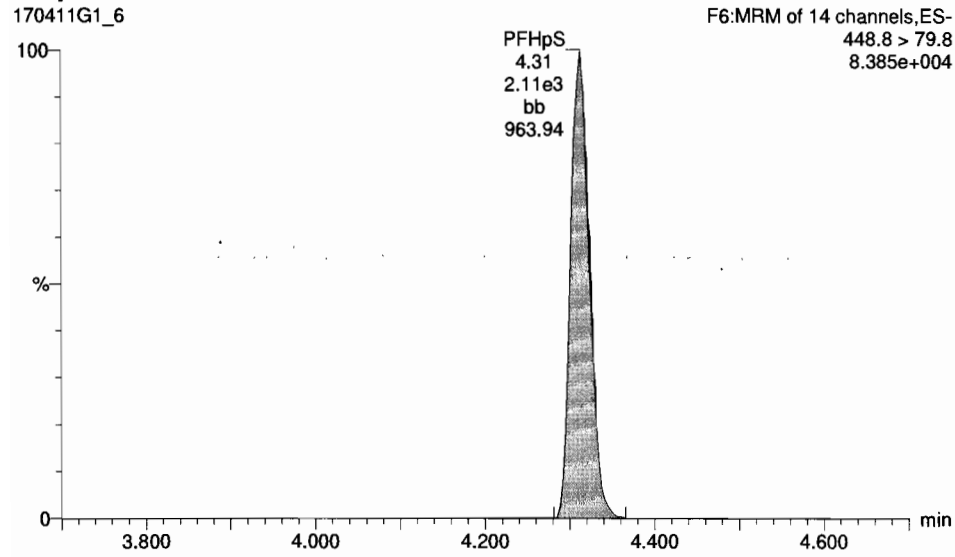
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Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

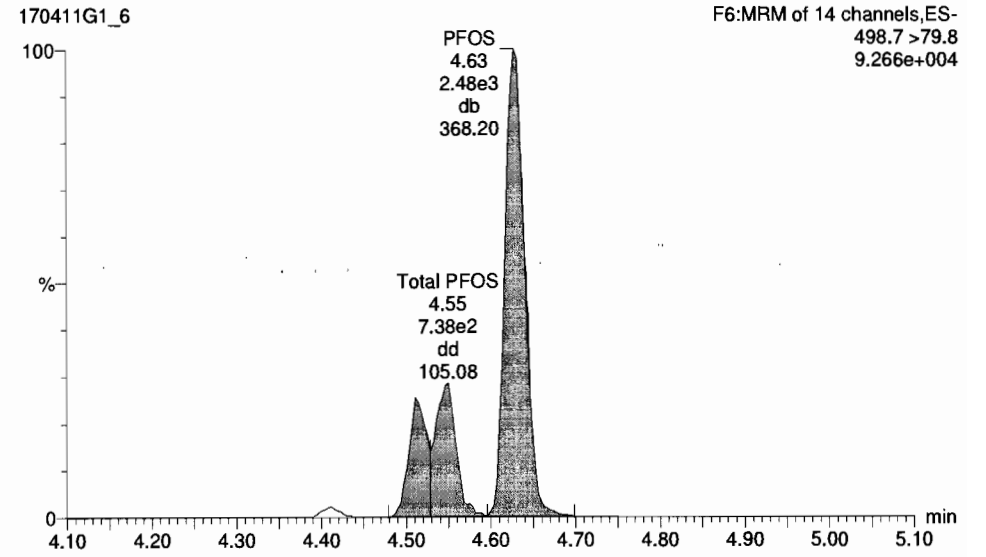
PFHps

170411G1_6



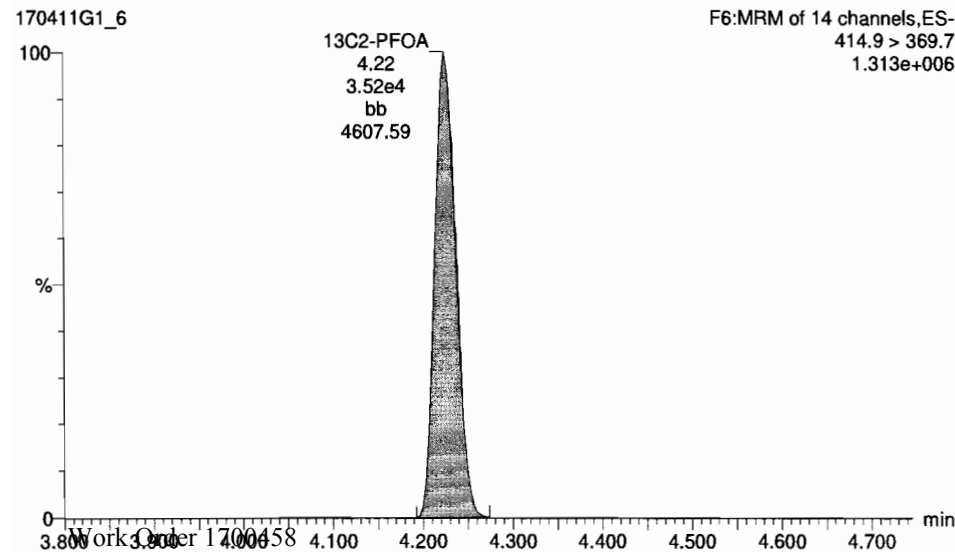
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170411G1_6



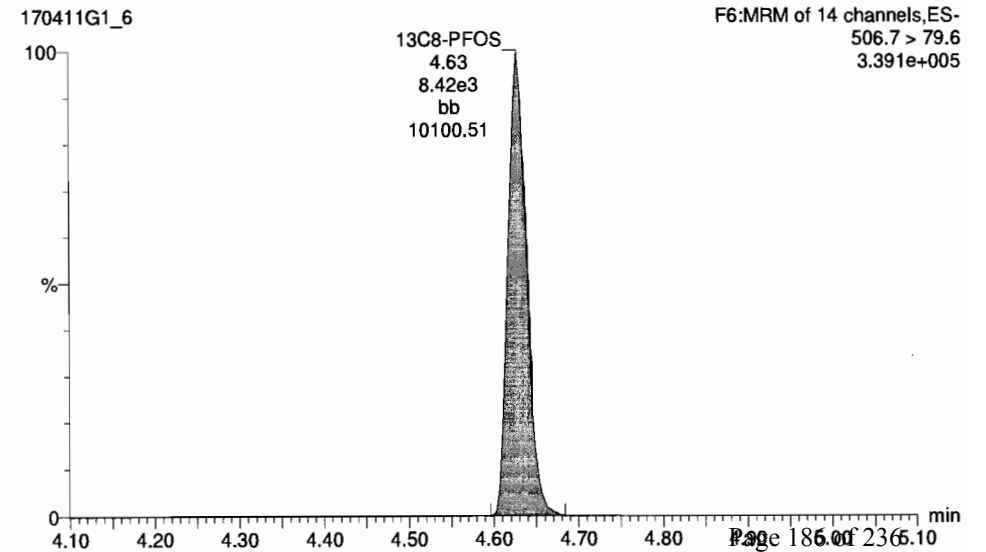
13C2-PFOA

170411G1_6

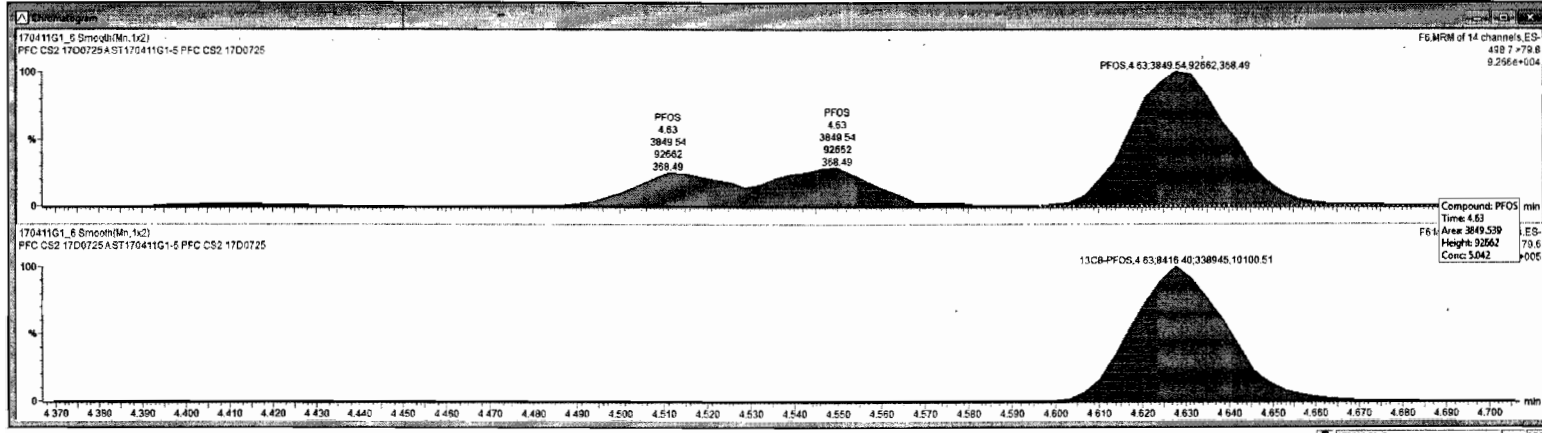


13C8-PFOS

170411G1_6



SI	Name	Code	DL	%Rec	EMPC	Abs Resp	SPR	RT	#	GR	RA	YPR	RTI	Acq Date	Anal Time	1 st Chrt/Inj	D	Sample Time	Factor1	Strt	End Time	-MOD-
1	PFPA	4.8529676	0.0174	96.7		1.822e4		1.73	1	14			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
2	PFPA	4.4241835	0.0217	88.5		4.863e3		2.96	2	15			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
3	PFBS	4.7710451	0.0111	95.4		9.203e3		2.92	3	16			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
4	PFHA	4.7789184		95.6		1.520e4		3.28	4	17			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
5	PFHA	4.8467907		96.9		1.304e4		3.81	5	16			1.601	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
6	PFHS	4.7962815		96.0		7.205e3		3.93	6	19			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		YES
7	2 FTS	4.7286231	0.182	94.5		2.872e3		4.16	7	21			0.999	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		YES
8	PFDA	5.0091122		109.2		1.329e4		4.22	8	21			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		YES
9	PFHS	4.7649119	0.171	95.3		2.116e3		4.31	9	21			1.621	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		YES
10	PFOS	5.0415237	0.0748	100.0		3.856e3		4.63	10	22			1.000	11-Apr-17	12:36:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		YES
11	PFHA	4.7345273	0.00969	84.7		8.468e3		4.57	11	23			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		YES
12	PFDA	5.5250030		119.5		3.906e3		4.86	12	24			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
13	2 FTS	4.2966141	0.0507	85.3		7.874e2		4.84	13	25			0.996	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		YES
14	13C-PFPA	12.329990	0.00379	102.0		3.955e4	1.180	1.73	14	26			1.603	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
15	13C-PFPA	12.927982	0.00216	103.4		1.450e4	0.378	2.86	15	27			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
16	13C-PFBS	12.986534	0.00187	100.0		2.716e4	0.728	2.92	16	27			0.988	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
17	13C-PFHA	5.1837847	0.00270	102.1		1.296e4	0.993	3.28	17	27			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
18	13C4-PFHA	13.171137	0.00380	105.4		1.772e4	0.961	3.81	18	28			0.988	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
19	18O2-PFHS	12.584798	0.00244	109.3		7.776e3	0.442	3.93	19	28			1.600	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
20	13C2-2 FTS	11.222404	0.00976	89.8		1.189e4	1.182	4.18	20	29			0.900	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
21	13C2-PFDA	12.133588	0.00637	97.1		3.515e4	3.233	4.22	21	29			1.000	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO
22	13C8-PFOS	13.619609	0.00343	104.2		8.416e3	1.271	4.63	22	30			0.999	11-Apr-17	12:34:40	ST170411G...		PFC CS2 17D07...	1.0	1.00		NO



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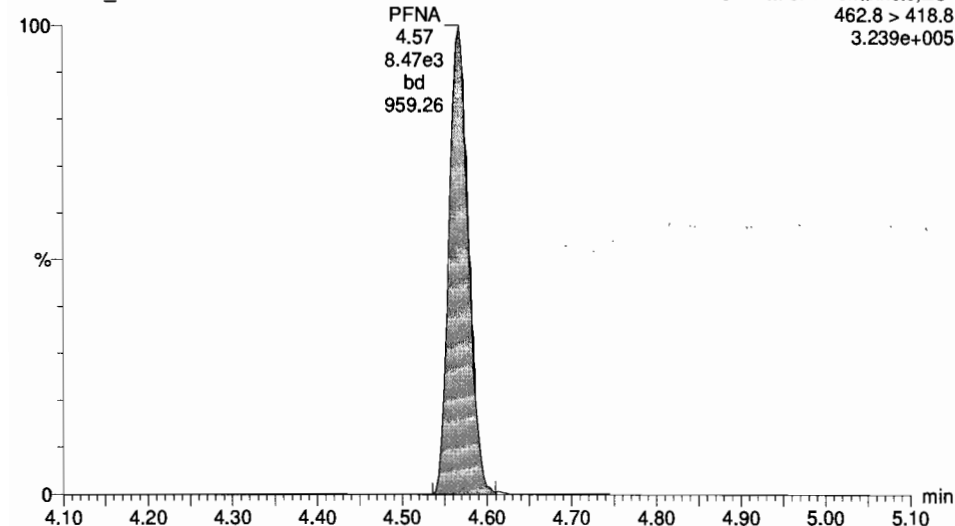
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

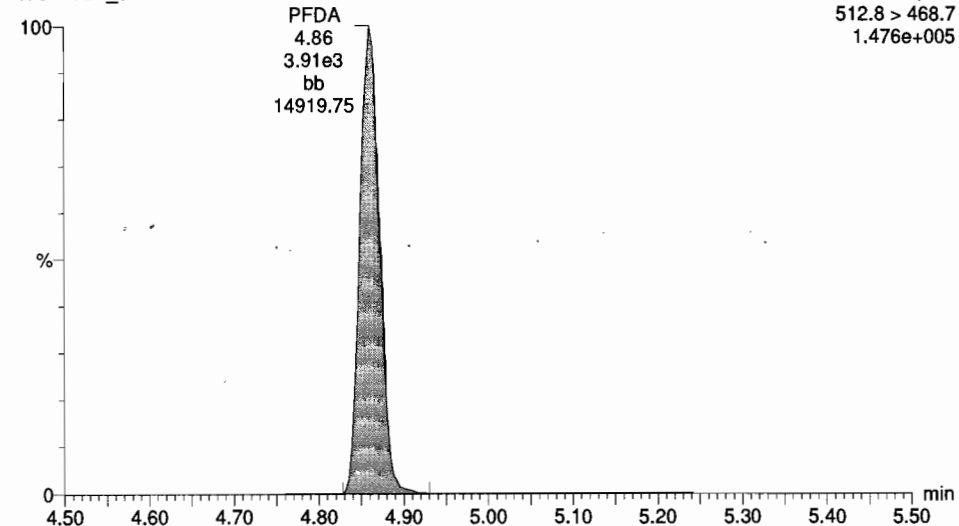
PFNA

170411G1_6



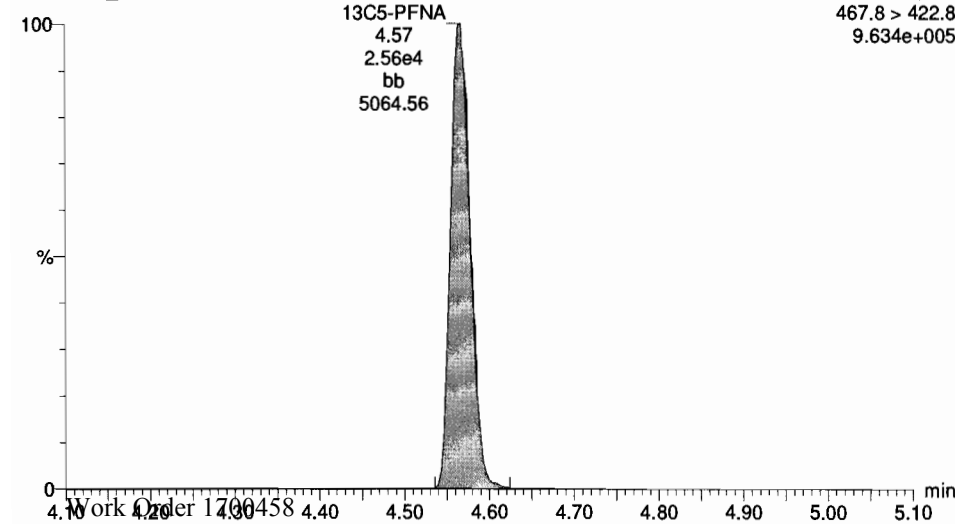
PFDA

170411G1_6



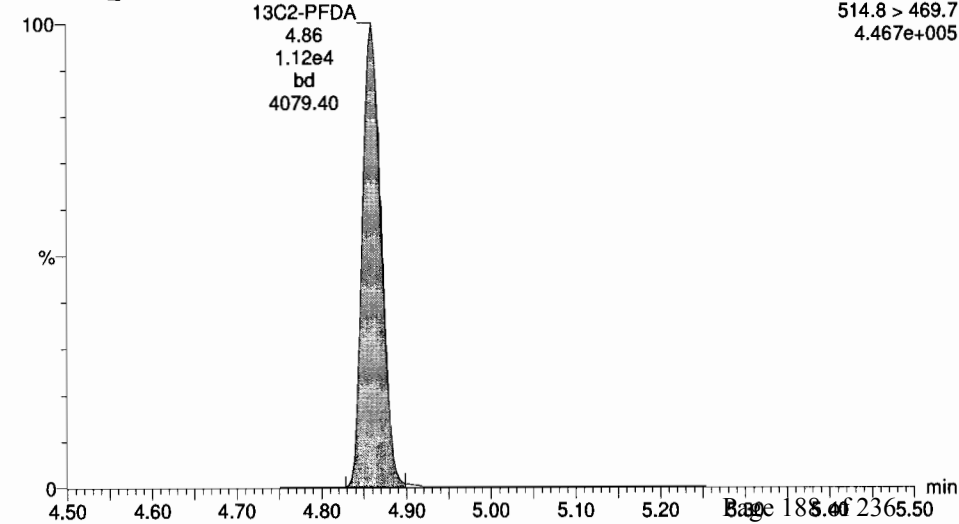
13C5-PFNA

170411G1_6



13C2-PFDA

170411G1_6



Dataset: Untitled

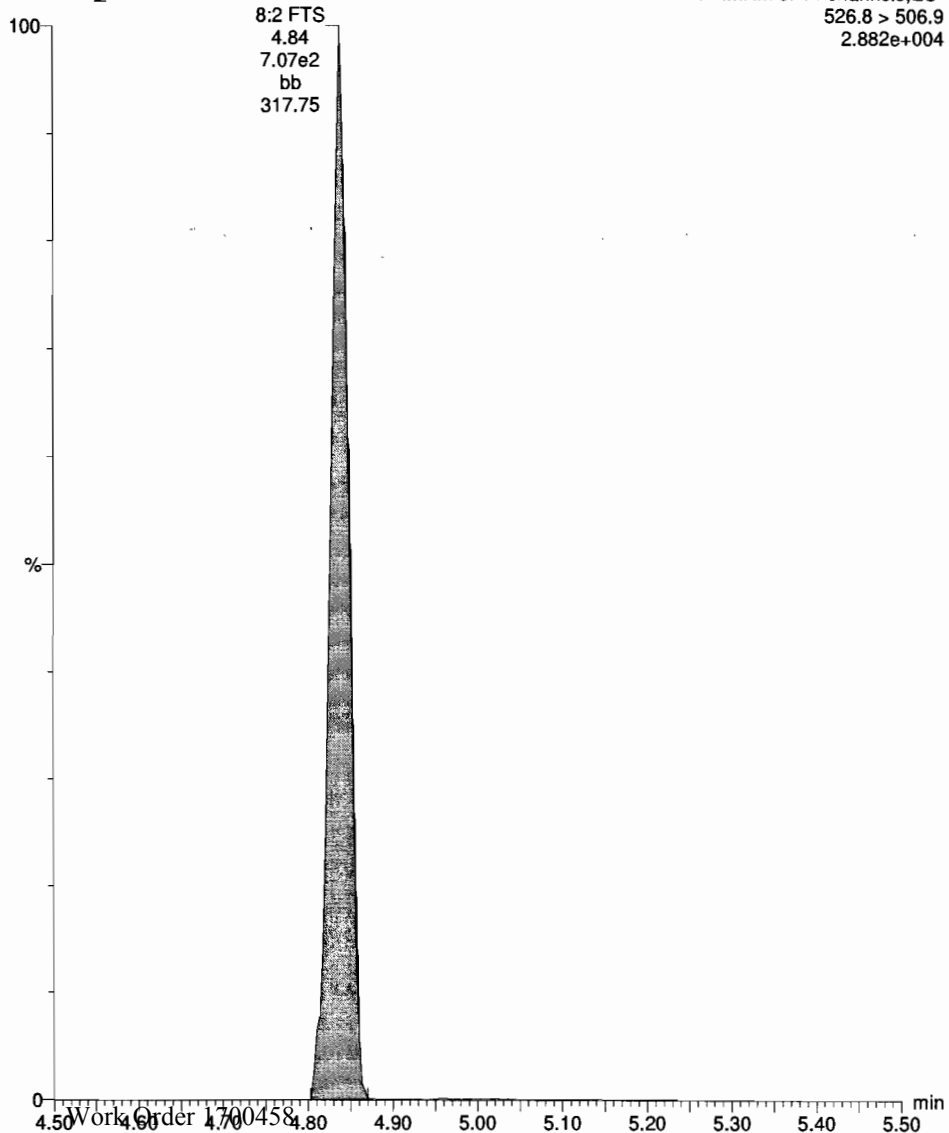
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

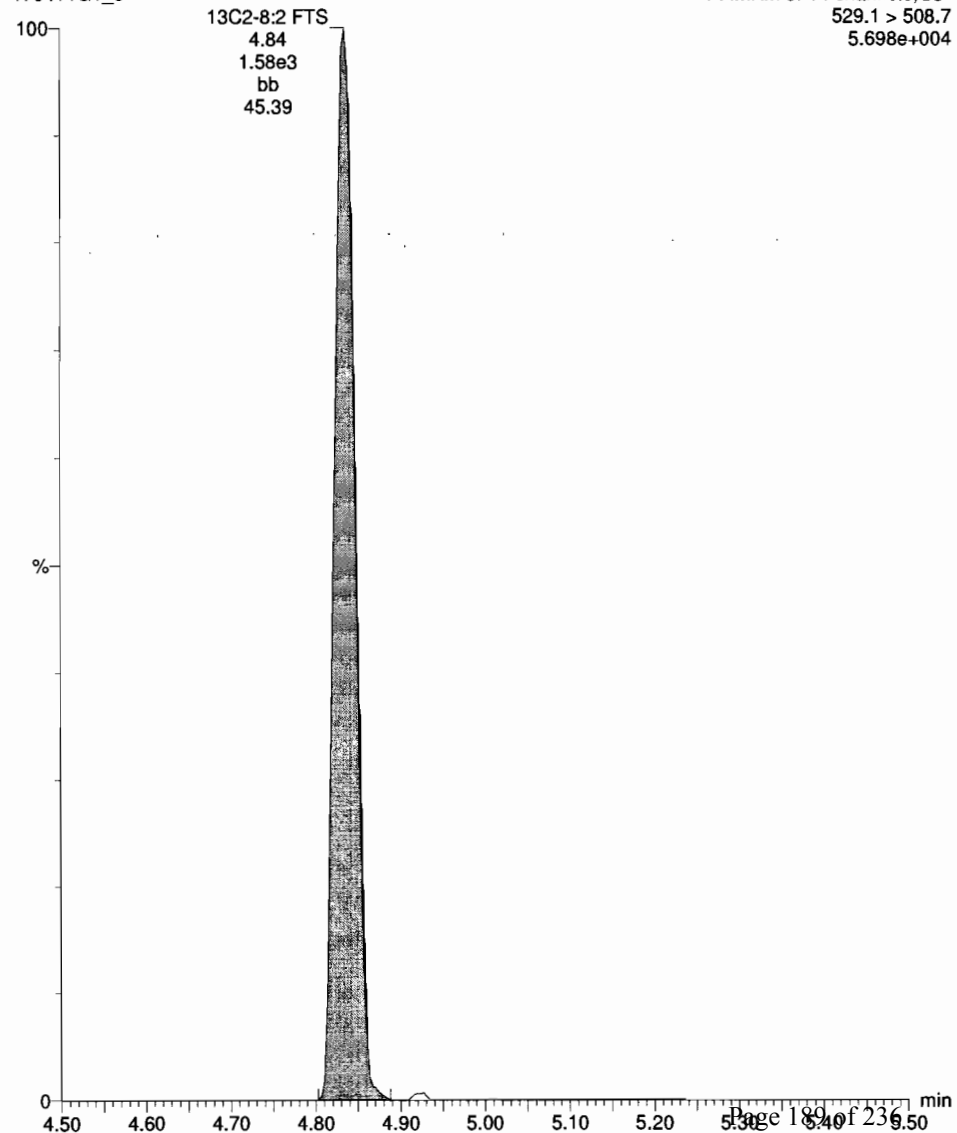
8:2 FTS

170411G1_6



13C2-8:2 FTS

170411G1_6



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

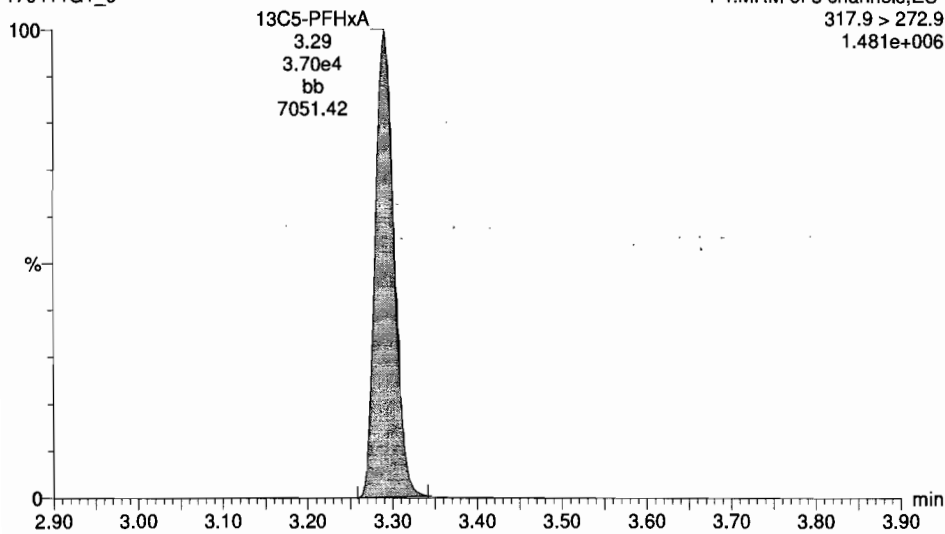
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

13C5-PFHxA

170411G1_6

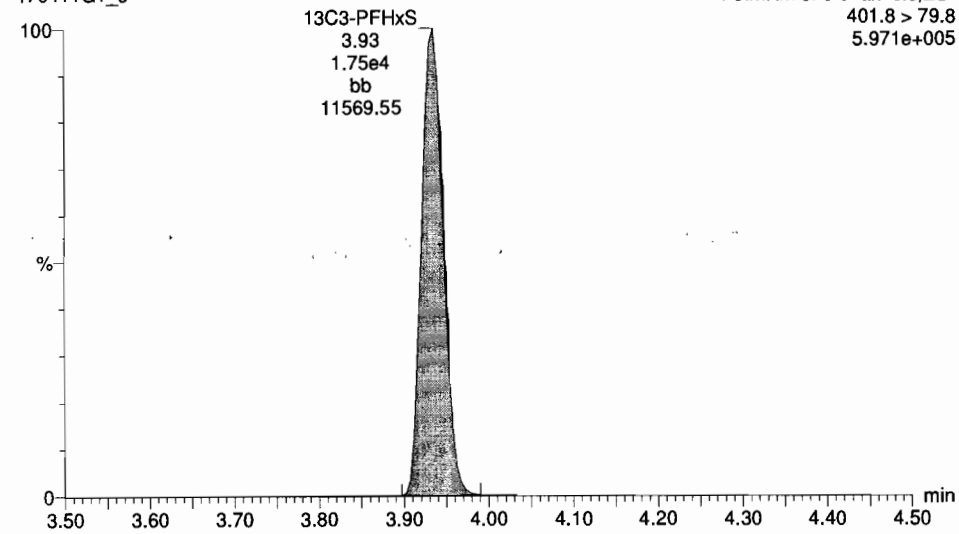
F4:MRM of 3 channels,ES-
317.9 > 272.9
1.481e+006



13C3-PFHxS

170411G1_6

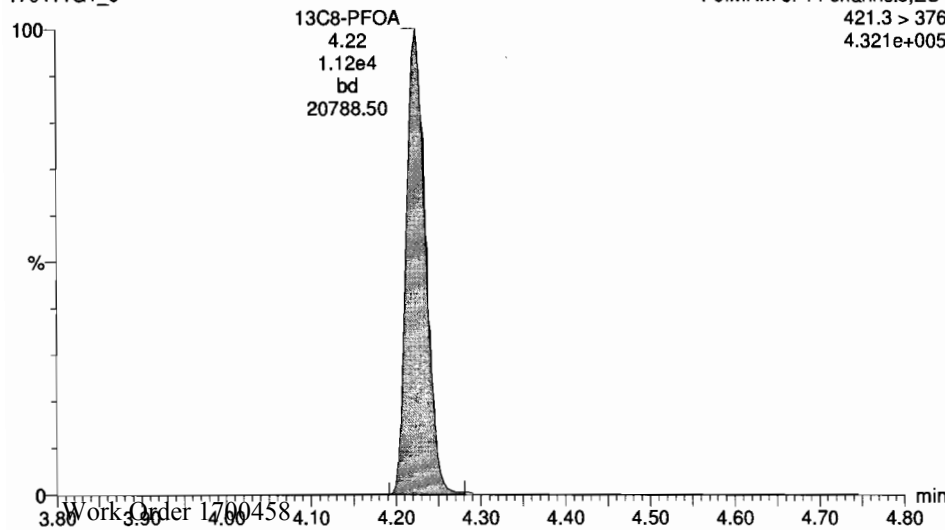
F5:MRM of 5 channels,ES-
401.8 > 79.8
5.971e+005



13C8-PFOA

170411G1_6

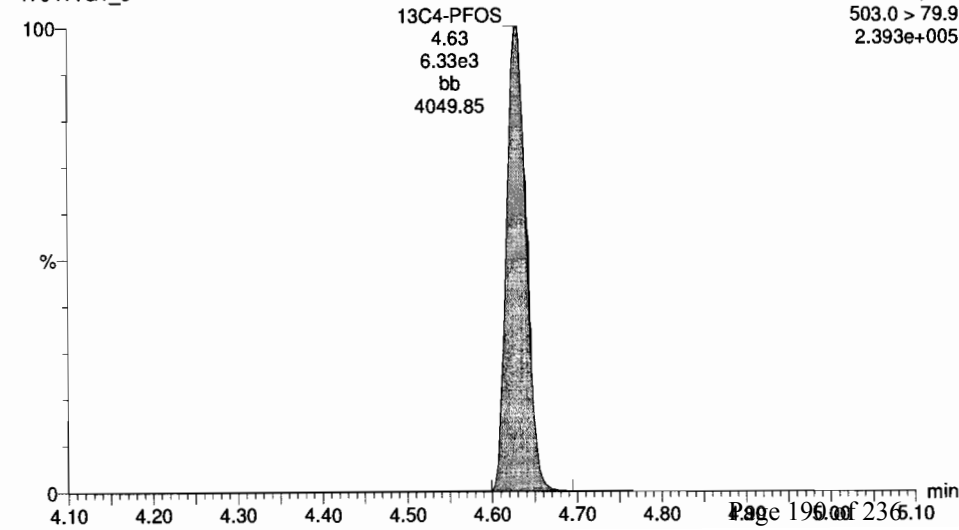
F6:MRM of 14 channels,ES-
421.3 > 376
4.321e+005



13C4-PFOS

170411G1_6

F6:MRM of 14 channels,ES-
503.0 > 79.9
2.393e+005



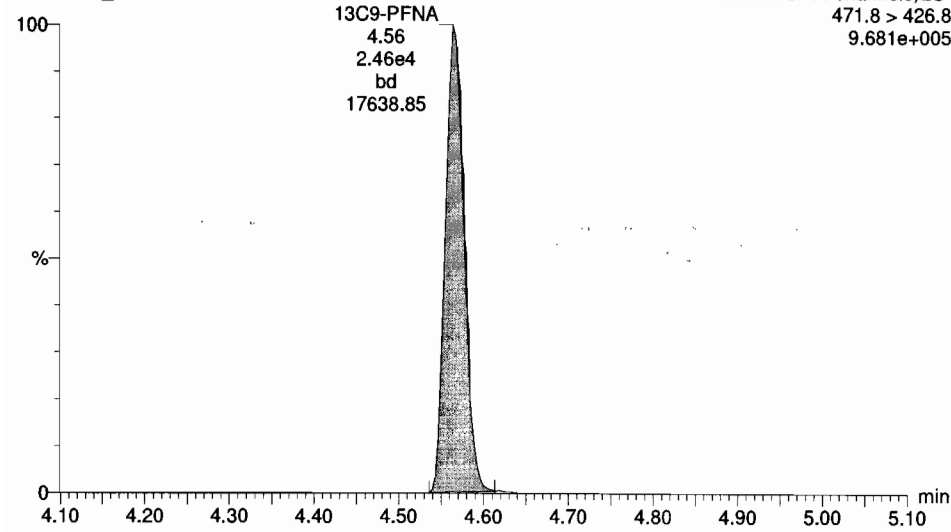
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Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-5 PFC CS2 17D0725, Description: PFC CS2 17D0725 A, Name: 170411G1_6, Date: 11-Apr-2017, Time: 12:34:40, Instrument: , Lab: , User:

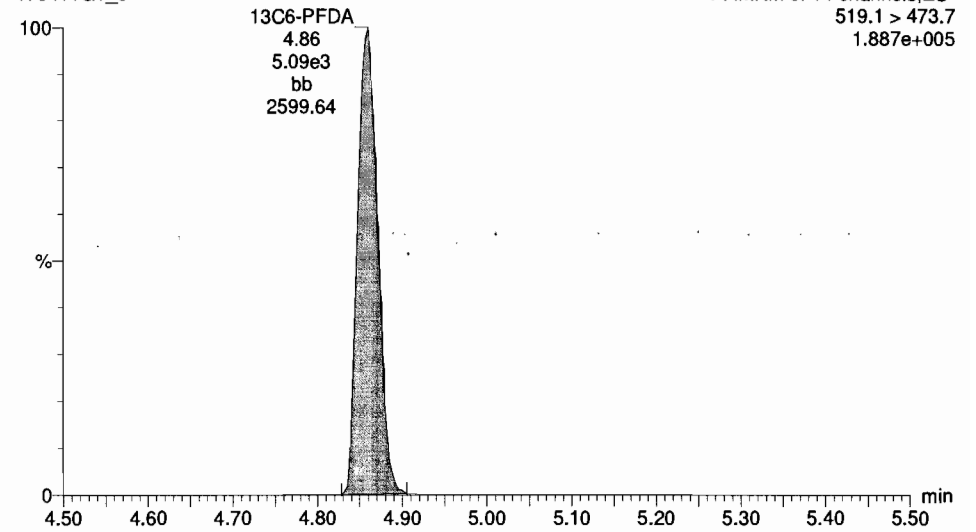
13C9-PFNA

170411G1_6



13C6-PFDA

170411G1_6



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Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

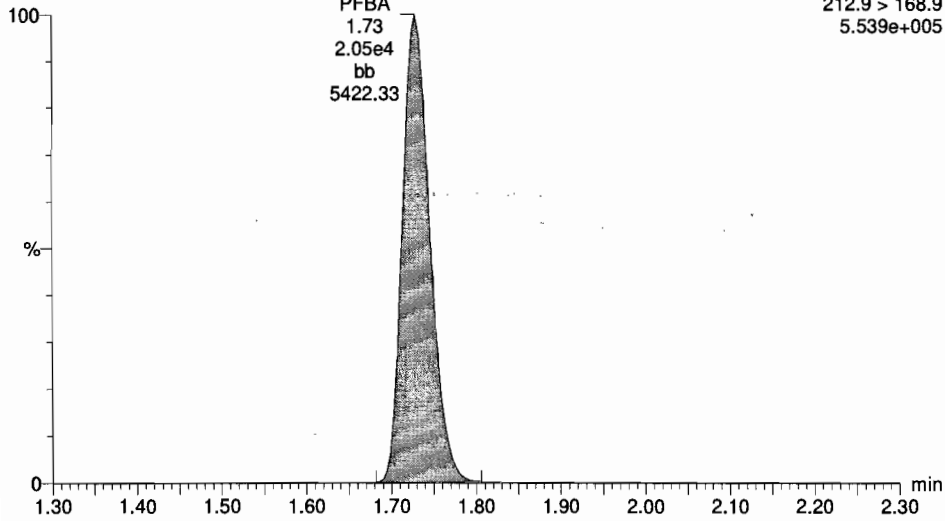
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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PFBA

170411G1_7

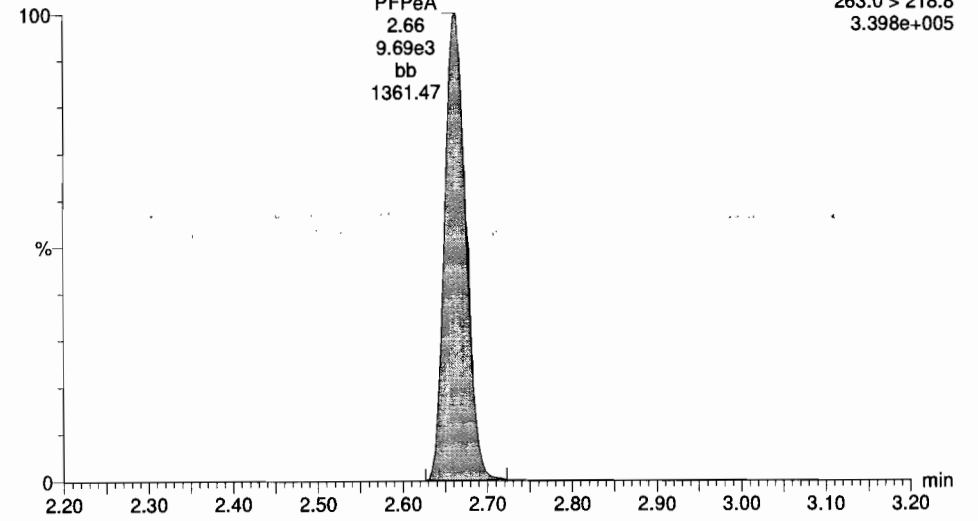
F2:MRM of 3 channels,ES-
212.9 > 168.9
5.539e+005



PFPeA

170411G1_7

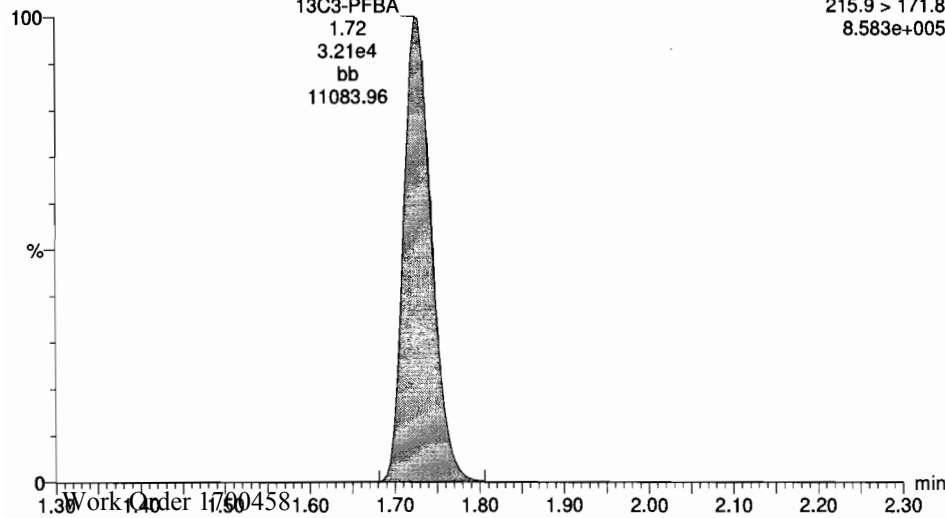
F3:MRM of 4 channels,ES-
263.0 > 218.8
3.398e+005



13C3-PFBA

170411G1_7

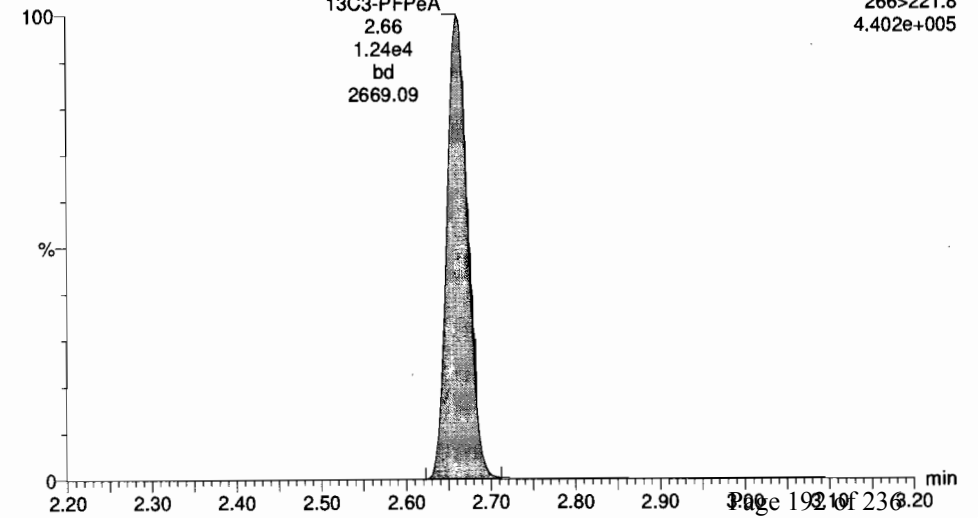
F2:MRM of 3 channels,ES-
215.9 > 171.8
8.583e+005



13C3-PFPeA

170411G1_7

F3:MRM of 4 channels,ES-
266>221.8
4.402e+005



Dataset: Untitled

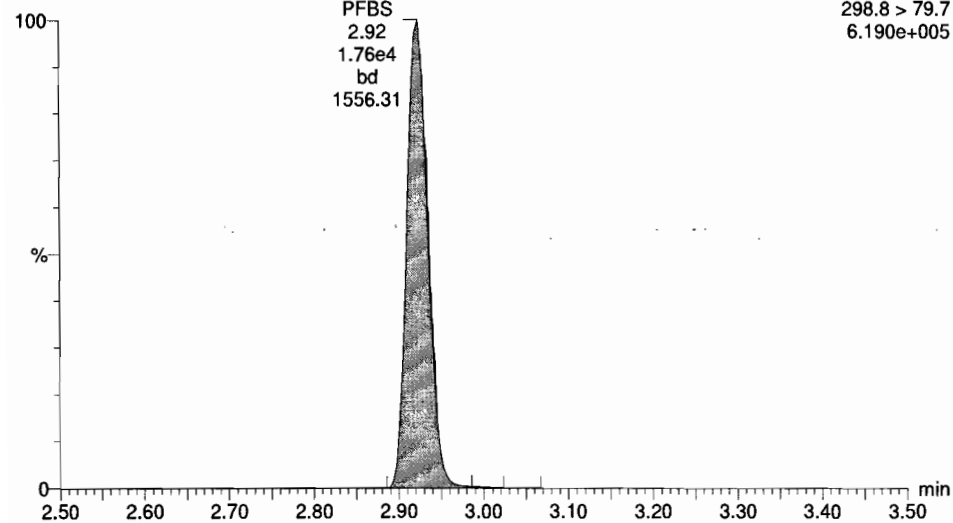
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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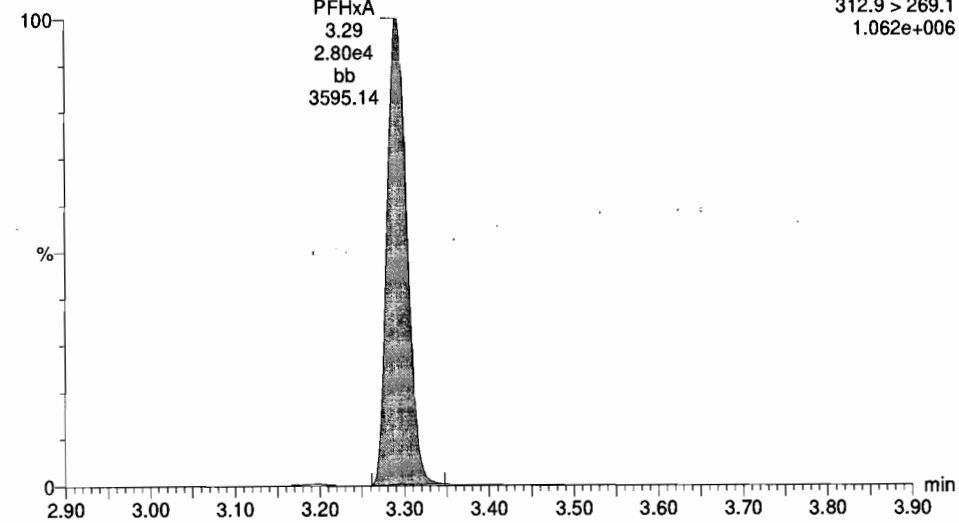
Total PFBS

170411G1_7



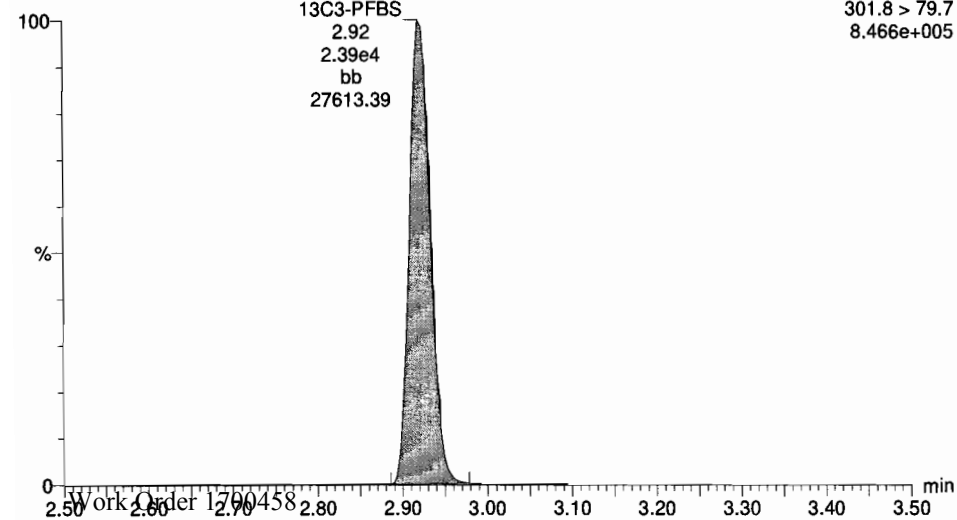
PFHxA

170411G1_7



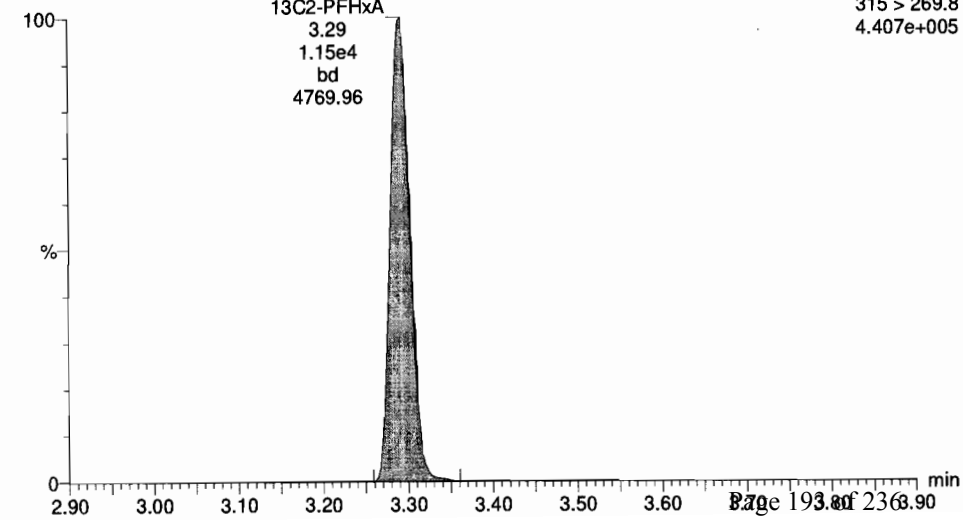
13C3-PFBS

170411G1_7



13C2-PFHxA

170411G1_7



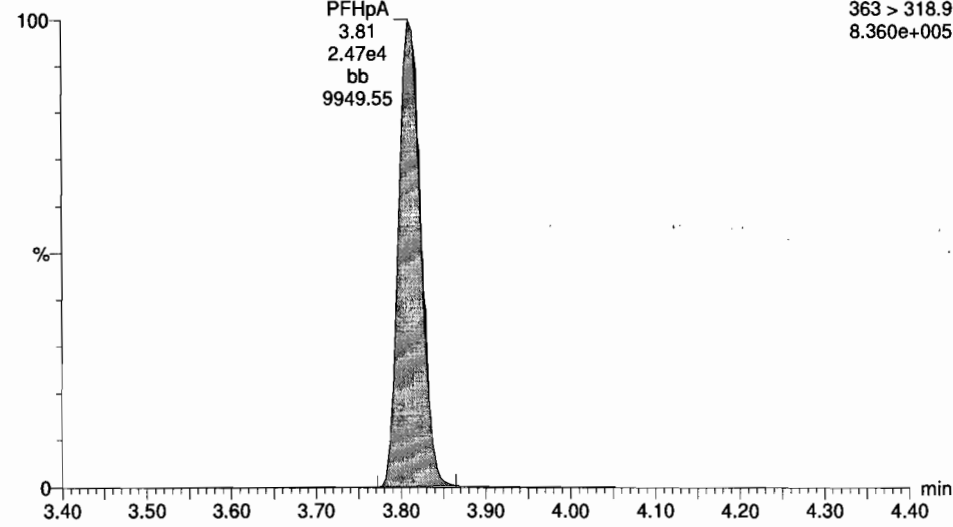
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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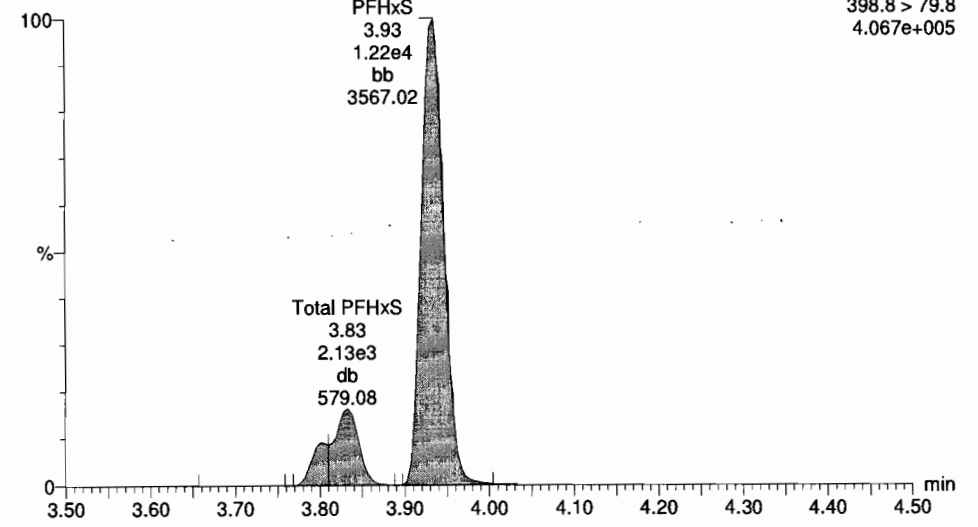
PFHpA

170411G1_7



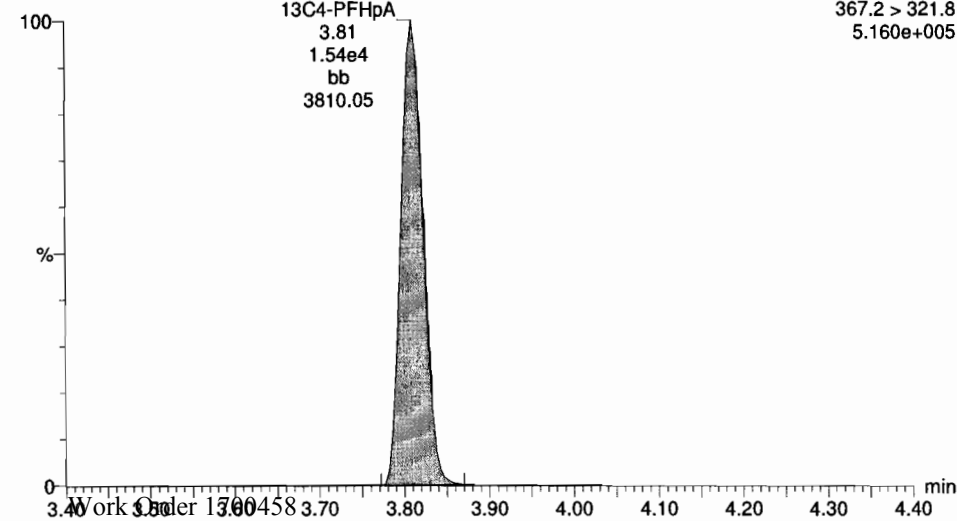
Total PFHxS

170411G1_7



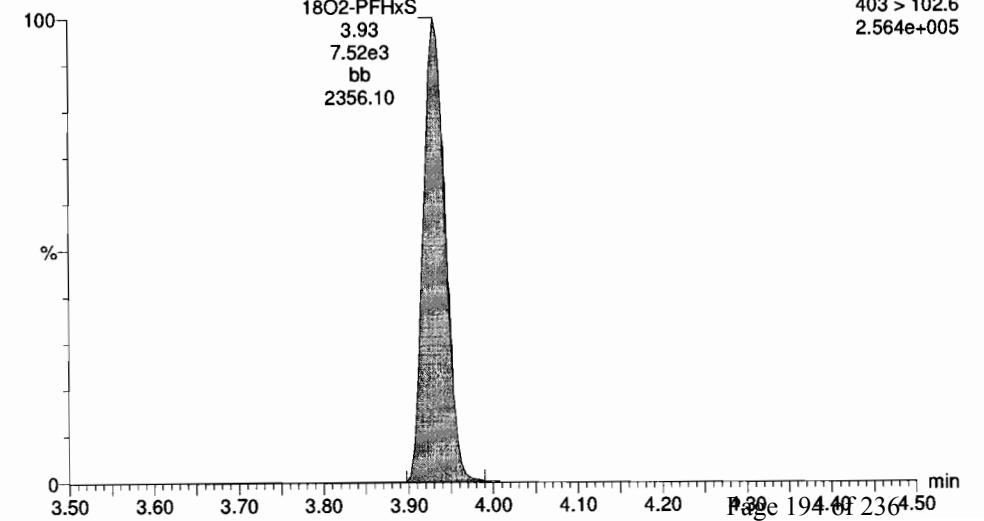
13C4-PFHpA

170411G1_7

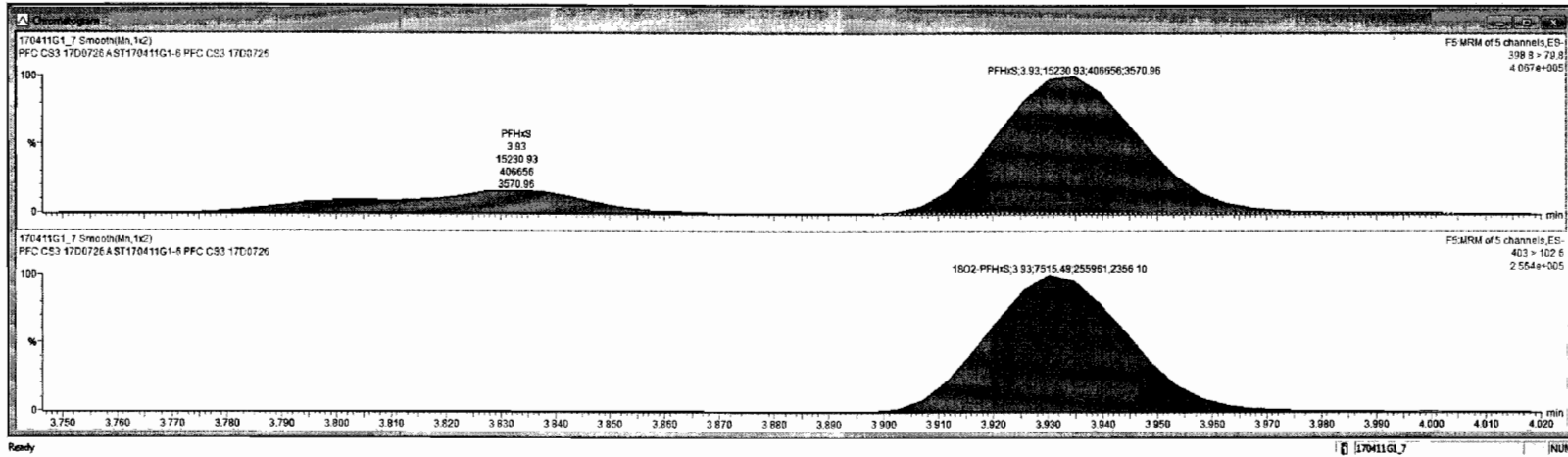


18O2-PFHxS

170411G1_7



Name	Conc.	DU	%Rec	EMPC	Abs.Recp	RRF	RT	#	SP	RA	VN	PR1	Acq.Dats	Acq.Tm	Chr.Instr	ID	Sample	Text	Factor1	SW	Cell#	>IDL
1	PFBA	10.427414	0.0185	104.3	2.96194	1.73	1	14				1.003	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
2	PFPA	10.301585	0.0350	103.6	9.69203	2.86	2	15				1.001	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
3	PFBS	10.272304	0.0261	102.7	1.75764	2.92	3	16				1.001	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
4	PFPA	9.9645796		99.6	2.78764	3.29	4	17				0.999	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
5	PFPA	10.562982		105.6	2.47284	3.61	5	18				1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
6	PFBS	10.562776		105.6	1.32294	3.93	6	19				1.001	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
7	2 PTS	10.262964	0.108	102.6	4.49603	4.17	7	21				0.987	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
8	PFDA	10.501563		105.0	2.65594	4.22	8	21				1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
9	PFHS	9.9389173	0.163	99.4	4.37203	4.31	9	21				1.021	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
10	PFOS	10.022463	0.153	100.2	1.94364	4.63	10	22				1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
11	PFNA	10.018716		100.2	1.90294	4.56	11	23				1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
12	PFDA	9.8862965		98.9	1.16994	4.86	12	24				1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
13	2 PTS	10.152405	0.0170	101.5	2.99603	4.83	13	25				0.995	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		YES
14	13C3-PFBA	12.576786	0.00201	100.6	3.21484	1.168	1.73	14	26			1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
15	13C3-PFPA	12.603028	0.0107	100.8	1.23864	0.379	2.86	15	27			0.889	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
16	13C3-PFBS	12.740513	0.00194	101.9	2.40184	0.726	2.92	16	27			0.888	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
17	13C3-PFPA	3.1595721	0.00265	103.0	1.14764	0.860	3.29	17	27			1.001	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
18	13C4-PFPA	11.778372	0.00770	94.2	1.53964	0.981	3.61	18	28			0.969	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
19	18O2-PFHS	12.507346	0.0124	100.1	7.51563	0.442	3.93	19	28			1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
20	13C2-2 PTS	13.533318	0.00542	100.3	1.32364	1.162	4.17	20	29			0.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
21	13C2-PFDA	12.611828	0.00453	100.9	3.43264	3.233	4.22	21	29			1.001	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO
22	13C8-PFOS	12.174850	0.0945	97.4	1.14164	1.277	4.63	22	30			1.000	11-Apr-17	12:47:16		ST170411G	PPC CS3 17D07		1.0	1.00		NO



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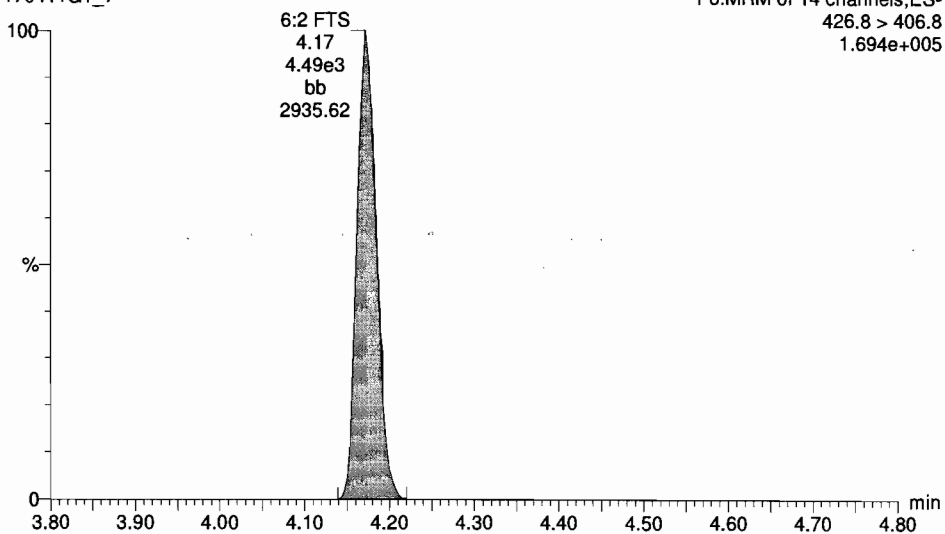
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-6 PFC CS3 17D0726, Description: PFC CS3 17D0726 A, Name: 170411G1_7, Date: 11-Apr-2017, Time: 12:47:16, Instrument: , Lab: , User:

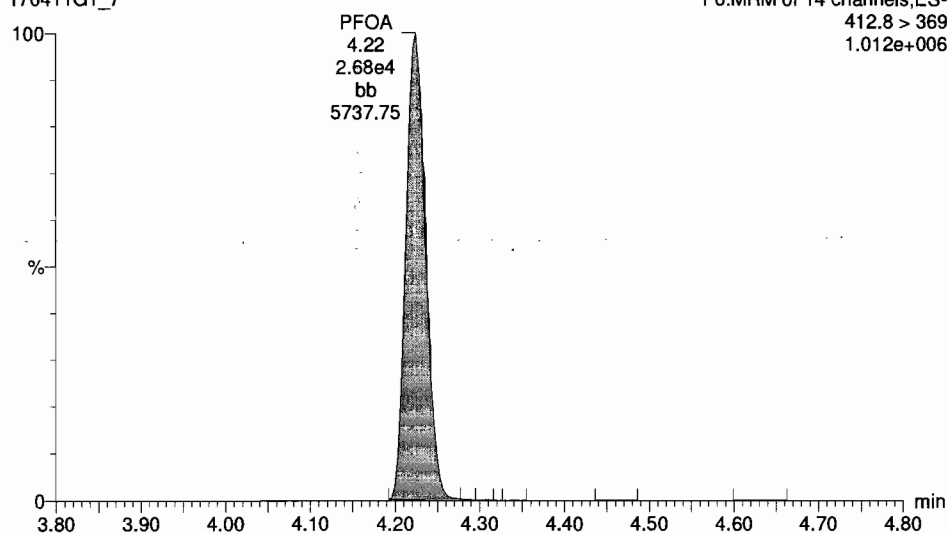
6:2 FTS

170411G1_7



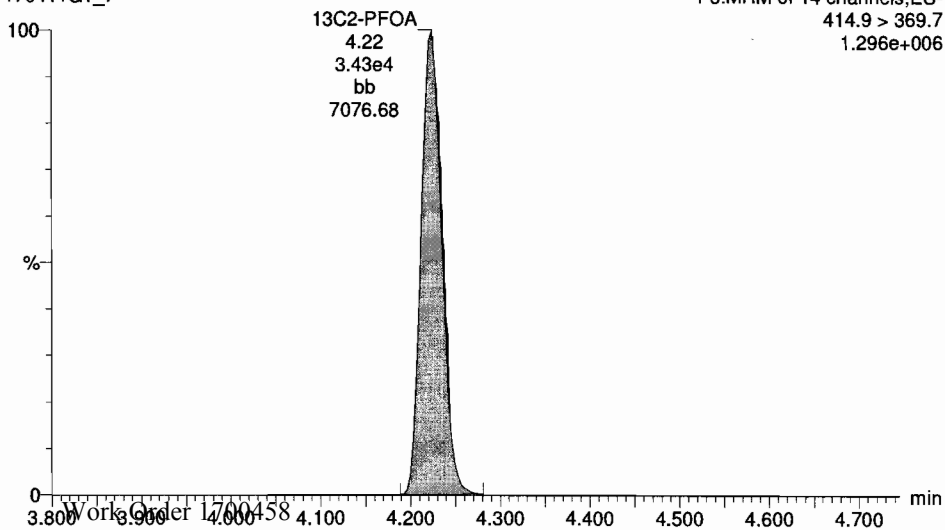
Total PFOA

170411G1_7



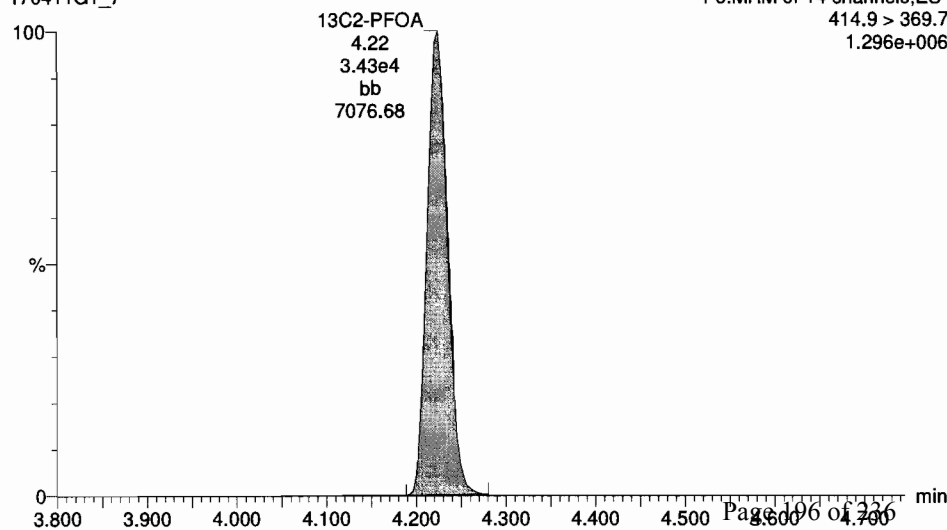
13C2-PFOA

170411G1_7



13C2-PFOA

170411G1_7



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Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

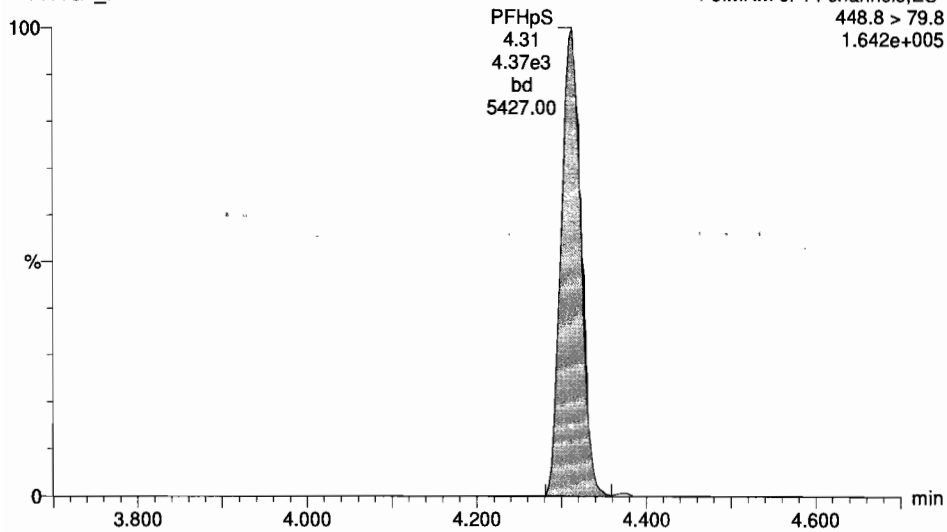
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-6 PFC CS3 17D0726, Description: PFC CS3 17D0726 A, Name: 170411G1_7, Date: 11-Apr-2017, Time: 12:47:16, Instrument: , Lab: , User:

PFHpS

170411G1_7

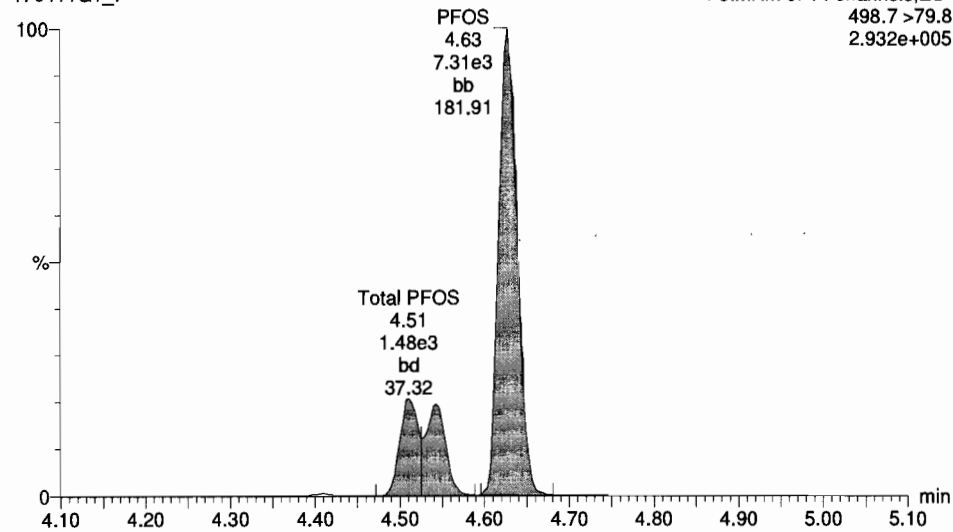
F6:MRM of 14 channels,ES-
448.8 > 79.8
1.642e+005



Total PFOS

170411G1_7

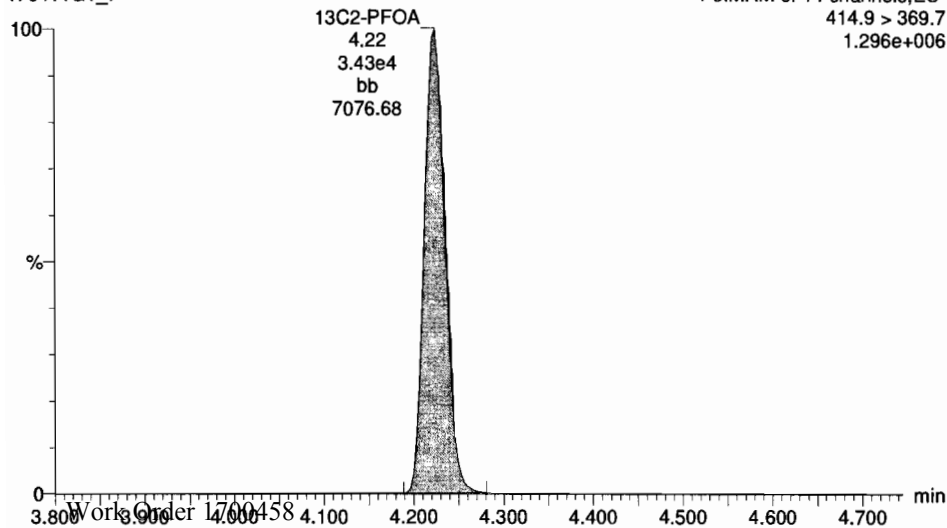
F6:MRM of 14 channels,ES-
498.7 > 79.8
2.932e+005



13C2-PFOA

170411G1_7

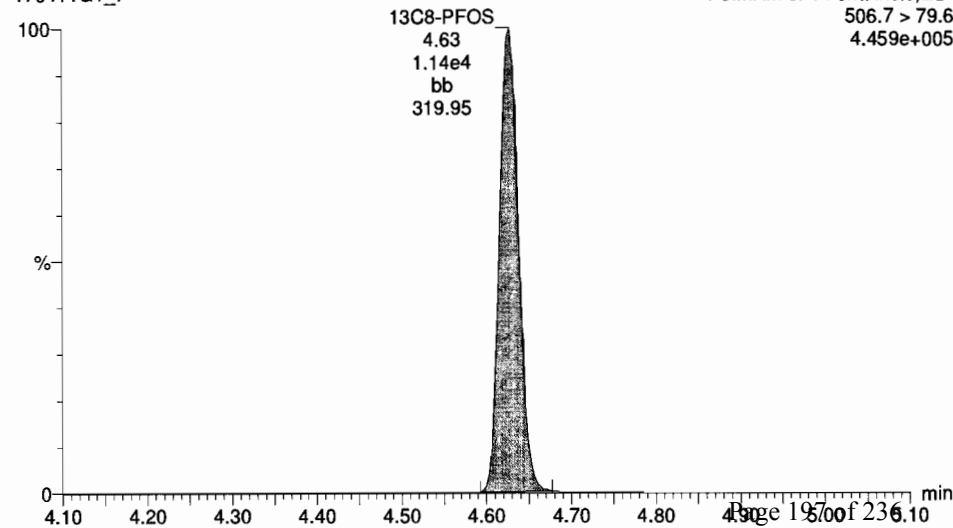
F6:MRM of 14 channels,ES-
414.9 > 369.7
1.296e+006



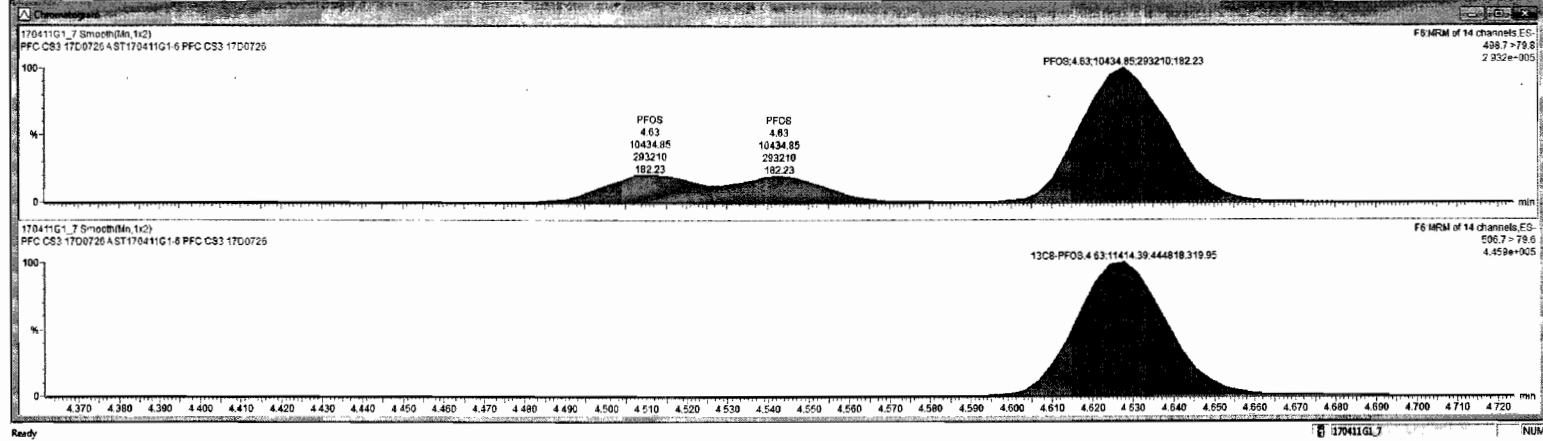
13C8-PFOS

170411G1_7

F6:MRM of 14 channels,ES-
506.7 > 79.6
4.459e+005



#	Name	Conc	OL	%Rec	UMPC	Abs Res	RR	RT	#	RA	Y/N	RR	Acq Date	Acq Time	Ch Name	Sample Text	Factor1	QW	Cal File	HMCL	
1	PfBA	12.427414	0.0105	104.3		2.261e4	1.73	1	14		1.003	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
2	PFBA	12.361555	0.0356	103.0		9.692e3	2.66	3	15		1.021	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
3	PFBS	12.272304	0.0281	102.7		1.757e4	2.92	3	16		1.001	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
4	PFHxA	9.9645796	99.8			2.797e4	3.29	4	17		0.998	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
5	PFHxA	19.582982		105.8		2.472e4	3.81	5	18		1.003	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
6	PFHxS	19.582779		105.8		1.623e4	3.93	6	19		1.001	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
7	6.2 FTS	18.282664	0.108			4.495e3	4.17	7	21		0.987	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
8	PFDA	19.591563		105.0		2.685e4	4.22	8	21		1.000	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
9	PFHxS	9.9389573	0.183	98.4		4.372e3	4.31	9	23		1.021	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
10	PFOS	12.22483	0.133	105.2		1.942e4	4.43	10	22		0.998	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
11	PFNA	19.019718		100.2		1.902e4	4.56	11	23		1.000	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
12	PFDA	9.6882965		99.8		1.109e4	4.86	12	24		1.000	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO	
13	6.2 FTS	19.152405	0.0170	101.5		2.996e3	4.83	13	25		0.995	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		YES	
14	13C3-PFBA	12.576798	0.00281	109.6		3.214e4	1.168	1.73	14	28		1.000	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
15	13C3-PFBA	12.663029	0.0107	100.8		1.239e4	0.379	2.66	15	27		0.809	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
16	13C3-PFBS	12.740613	0.00104	101.8		2.401e4	0.725	2.92	16	27		0.858	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
17	13C2-PFBA	5.1585721	0.00285	103.0		1.147e4	0.869	3.29	17	27		1.001	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
18	13C4-PFBA	11.770372	0.00779	94.2		1.539e4	0.961	3.81	18	28		0.868	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
19	1802-PFHxS	12.587346	0.0134	100.1		7.515e3	0.442	3.93	19	28		1.000	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
20	13C2-6.2 FTS	13.533318	0.00542	108.3		1.323e4	1.162	4.17	20	28		0.000	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
21	13C2-PFDA	12.811183	0.00453	109.8		3.432e4	3.233	4.22	21	29		1.001	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO
22	13C8-PFOS	12.171659	0.0945	97.4		1.414e4	1.271	4.83	22	30		1.000	11-Apr-17	12:47:16	12:47:16	ST170411G	PFC CS3 17D0726	1.0	1.00		NO



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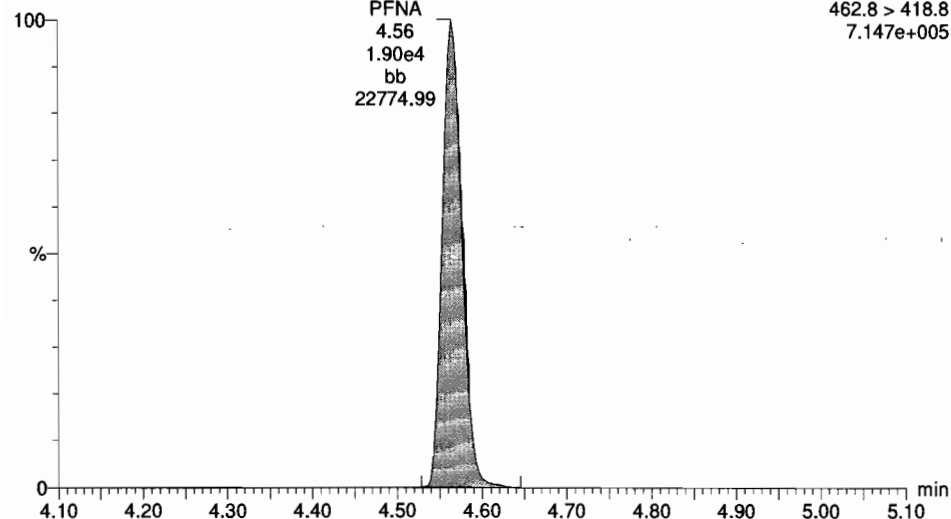
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-6 PFC CS3 17D0726, Description: PFC CS3 17D0726 A, Name: 170411G1_7, Date: 11-Apr-2017, Time: 12:47:16, Instrument: , Lab: , User:

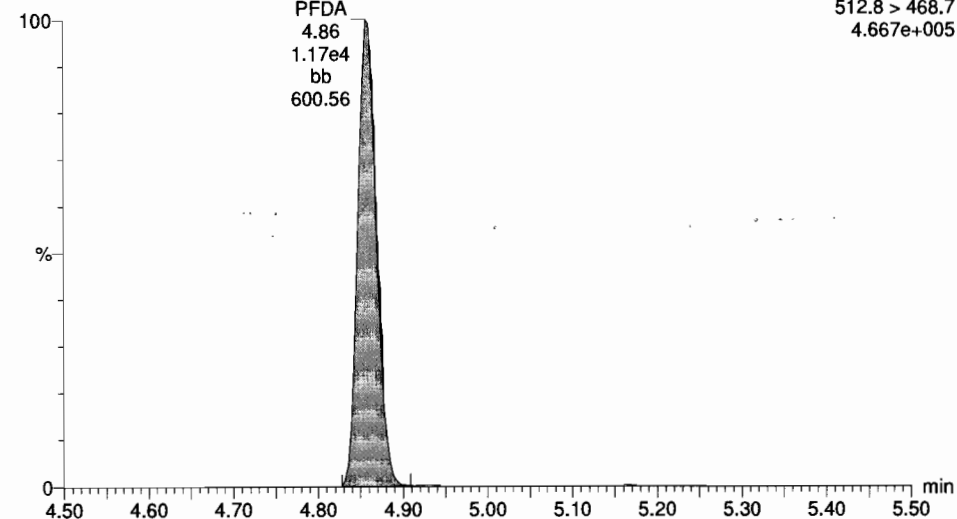
PFNA

170411G1_7



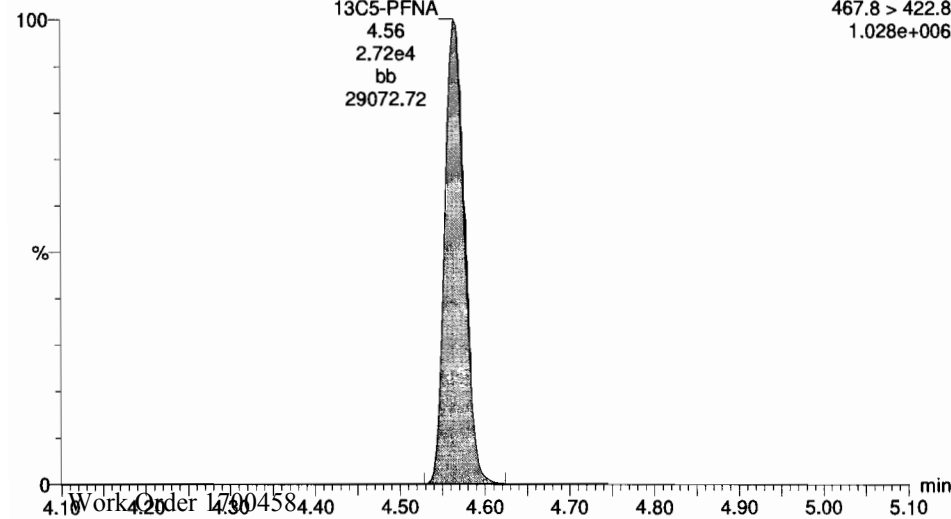
PFDA

170411G1_7



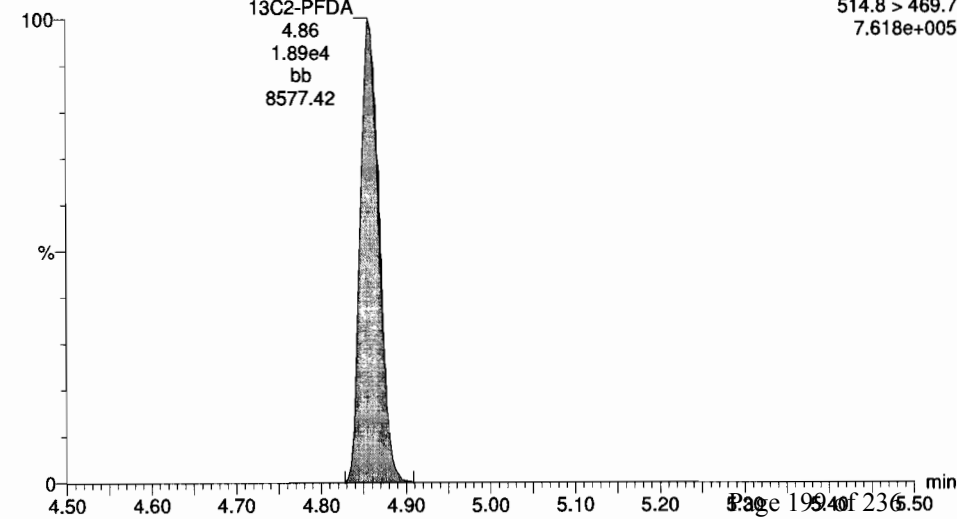
13C5-PFNA

170411G1_7



13C2-PFDA

170411G1_7



Dataset: Untitled

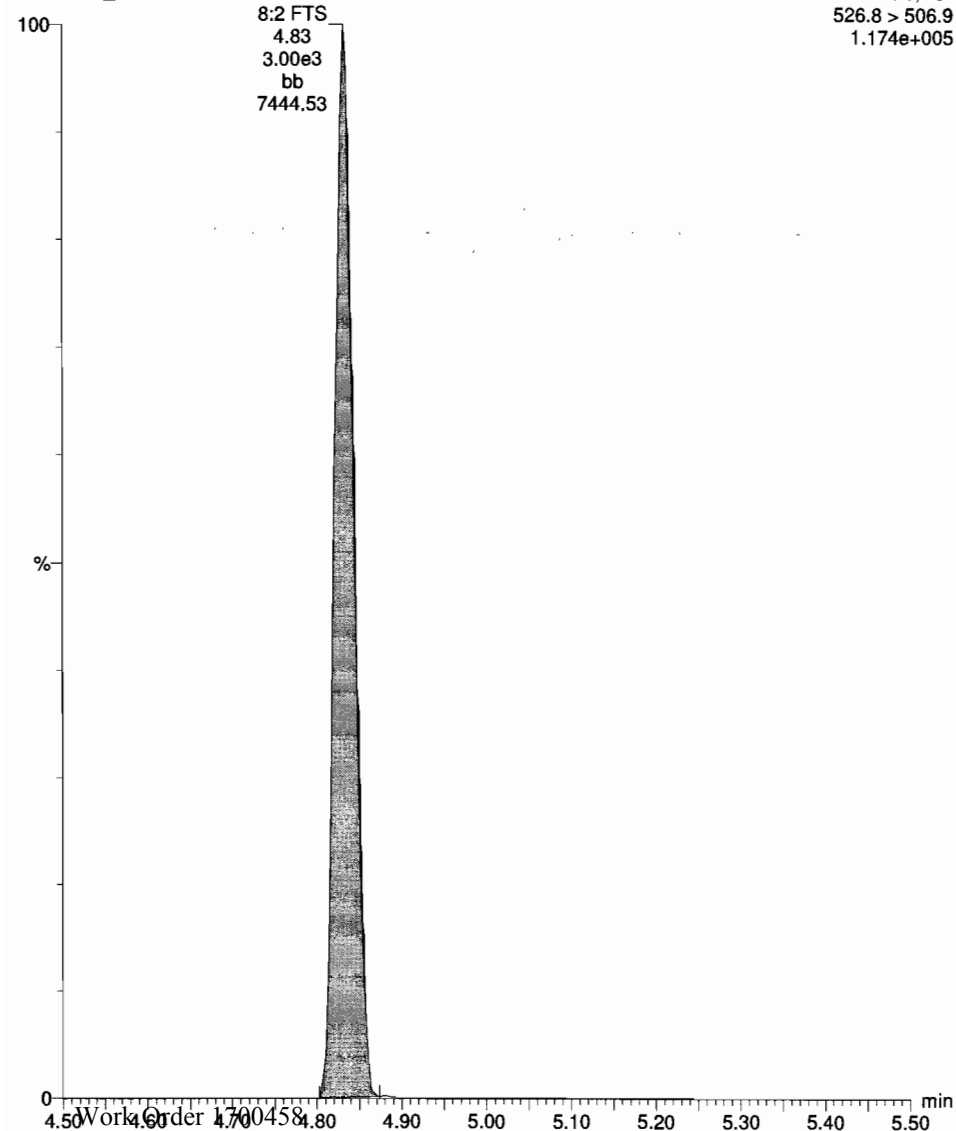
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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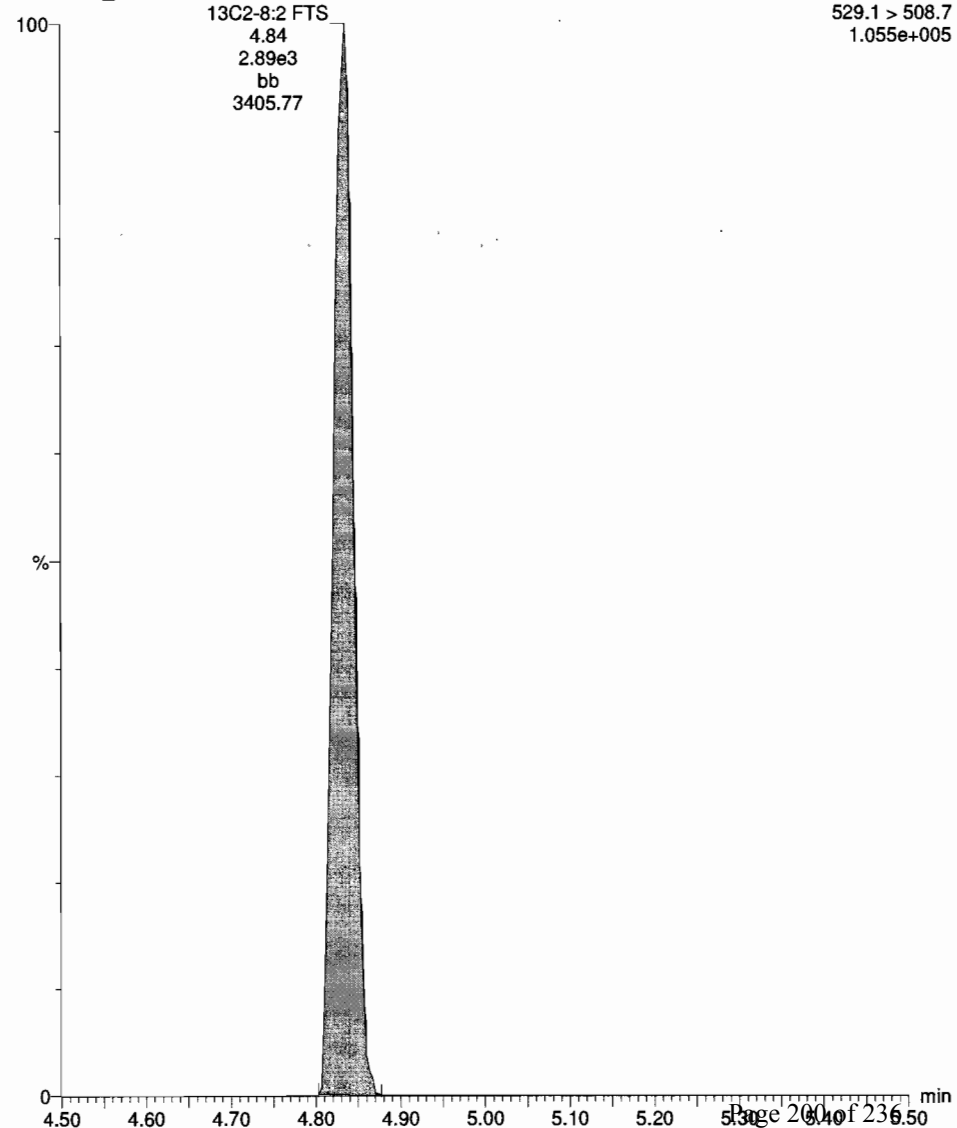
8:2 FTS

170411G1_7



13C2-8:2 FTS

170411G1_7



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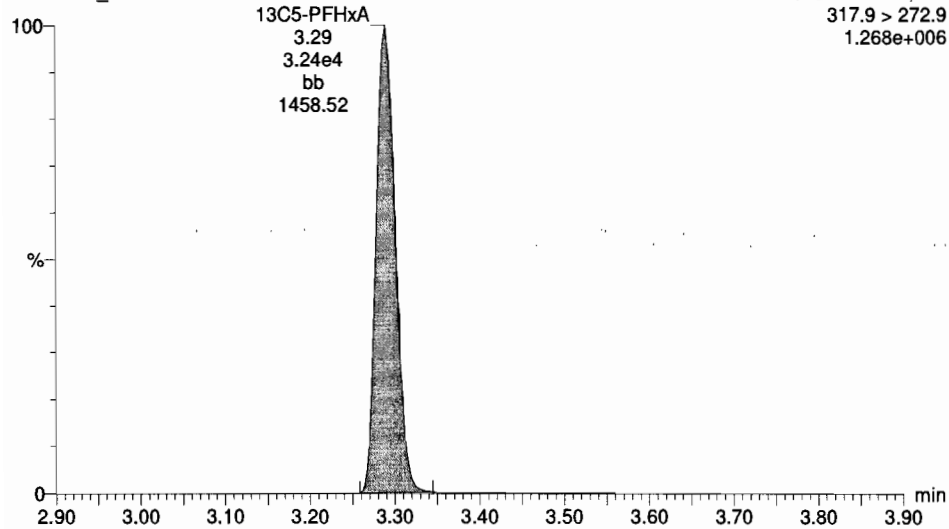
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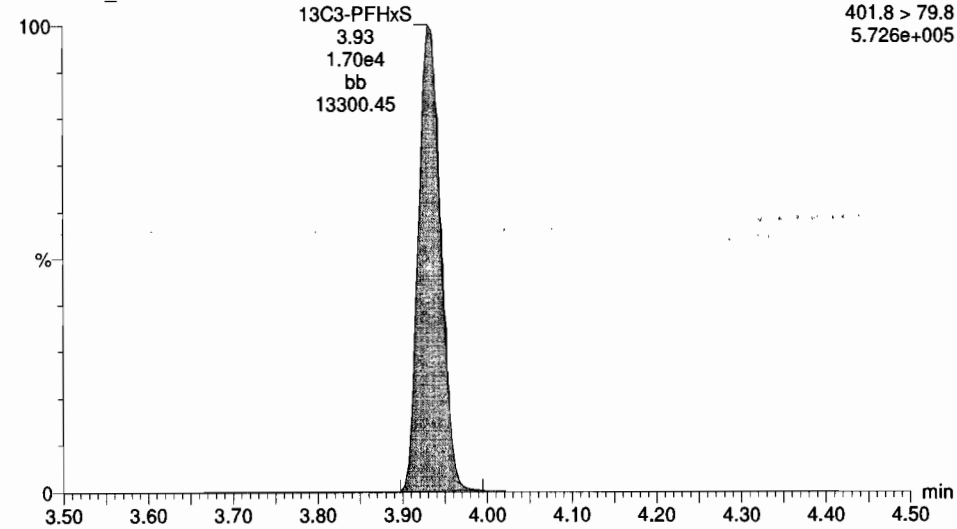
13C5-PFHxA

170411G1_7



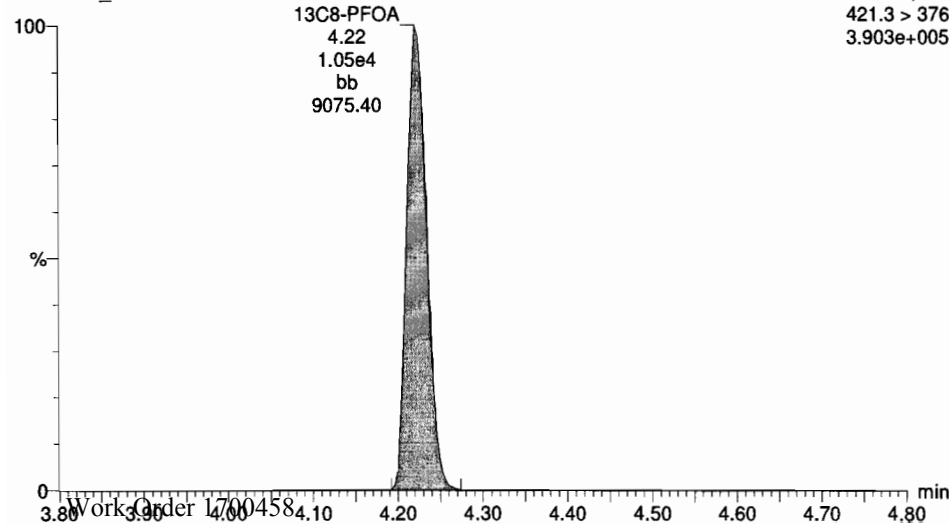
13C3-PFHxS

170411G1_7



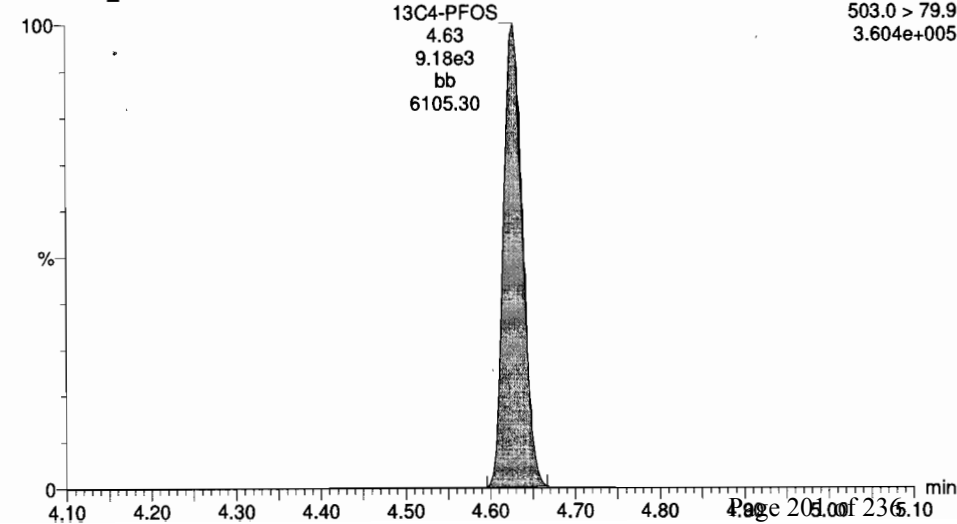
13C8-PFOA

170411G1_7



13C4-PFOS

170411G1_7



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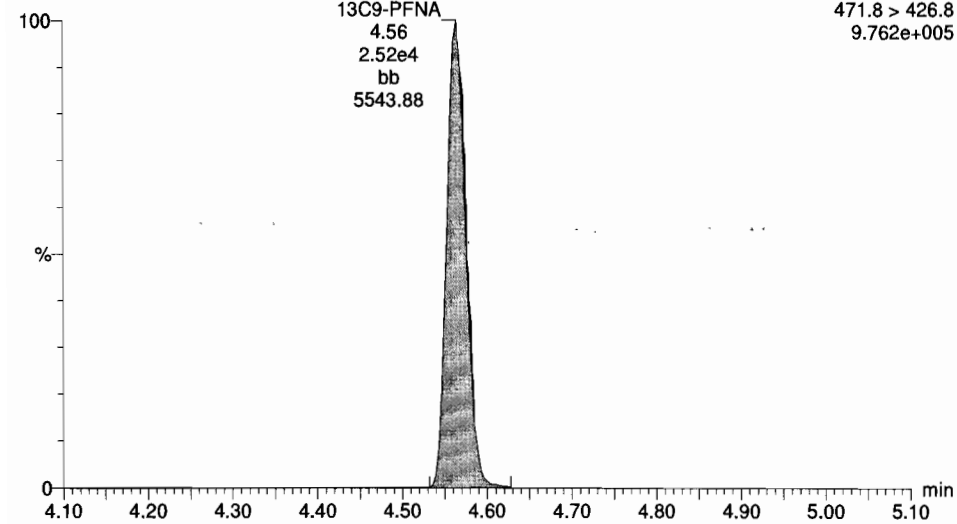
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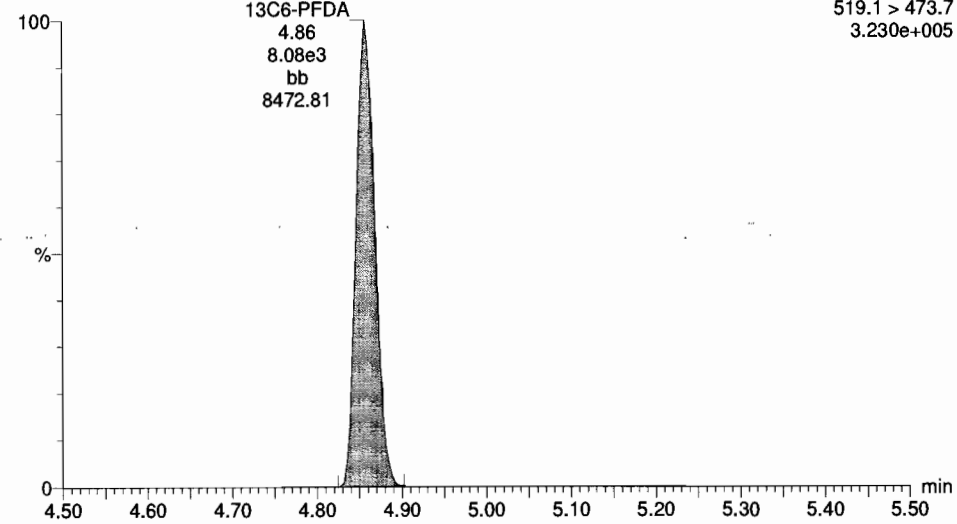
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13C6-PFDA

170411G1_7



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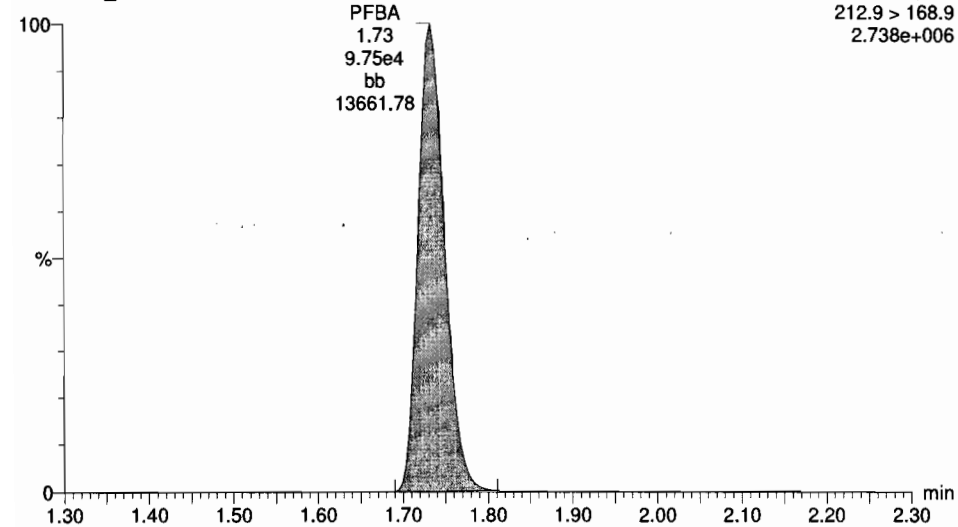
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-7 PFC CS4 17D0727, Description: PFC CS4 17D727 A, Name: 170411G1_8, Date: 11-Apr-2017, Time: 12:59:54, Instrument: , Lab: , User:

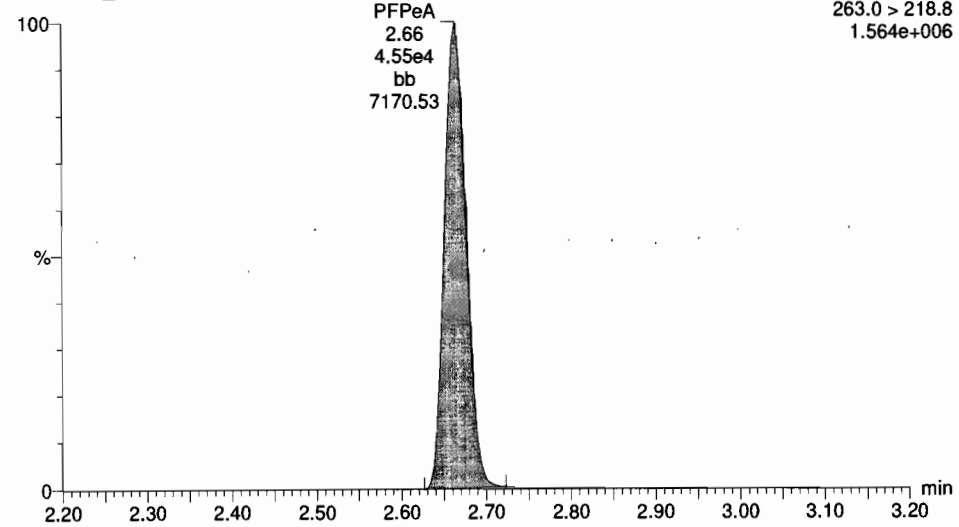
PFBA

170411G1_8



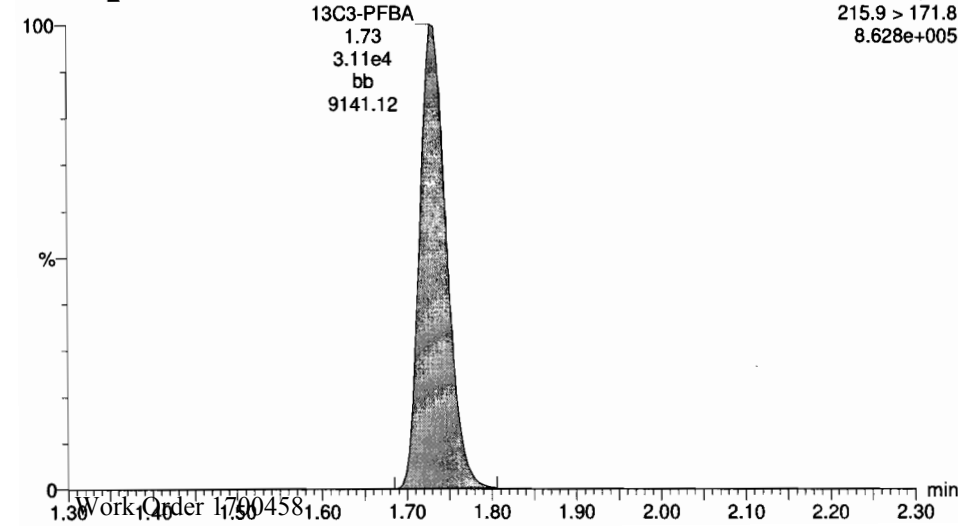
PFPeA

170411G1_8



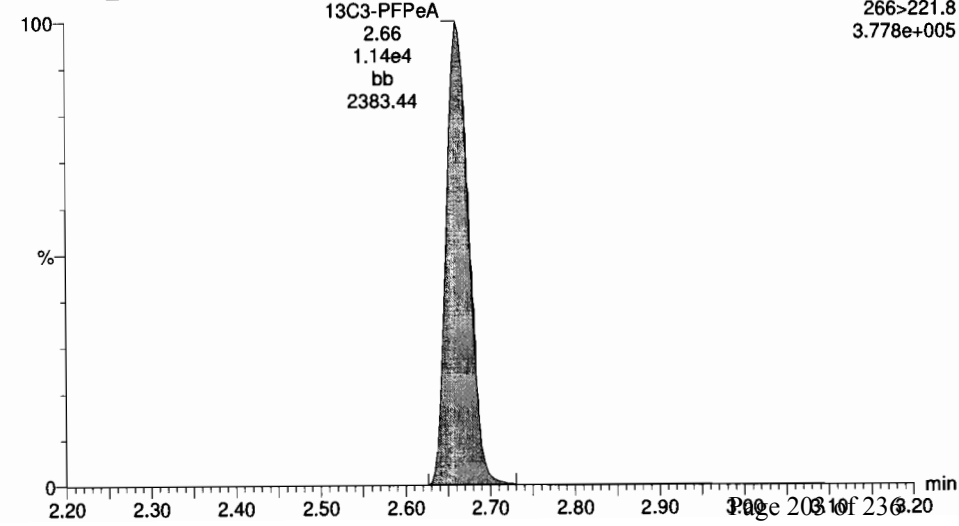
13C3-PFBA

170411G1_8



13C3-PFPeA

170411G1_8



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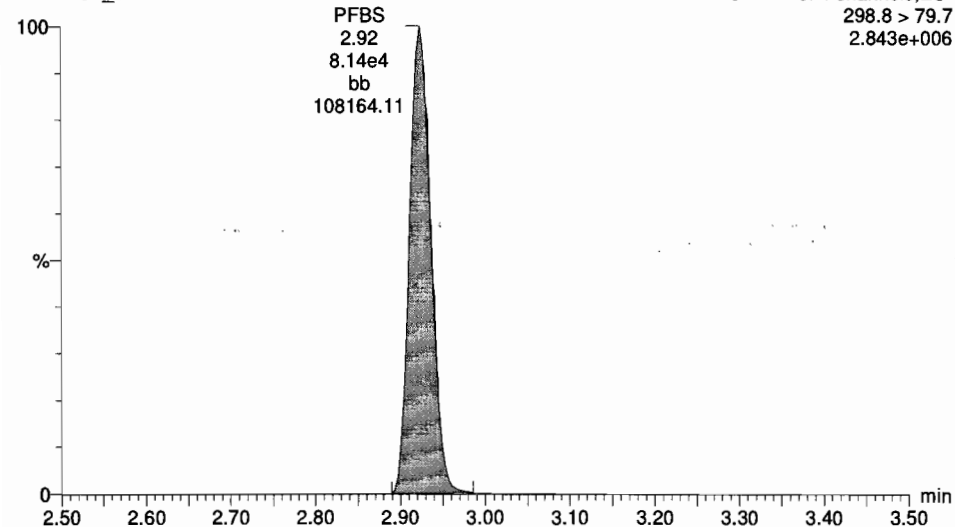
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

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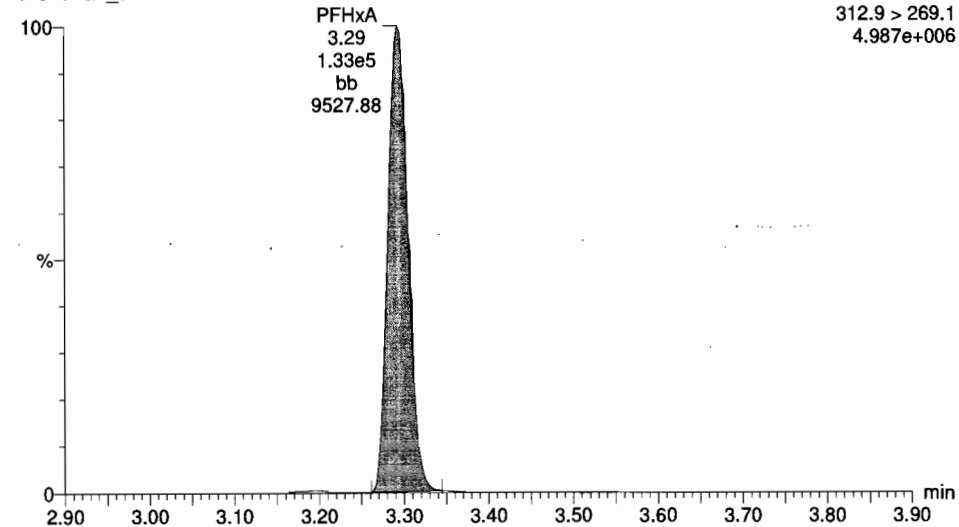
Total PFBS

170411G1_8



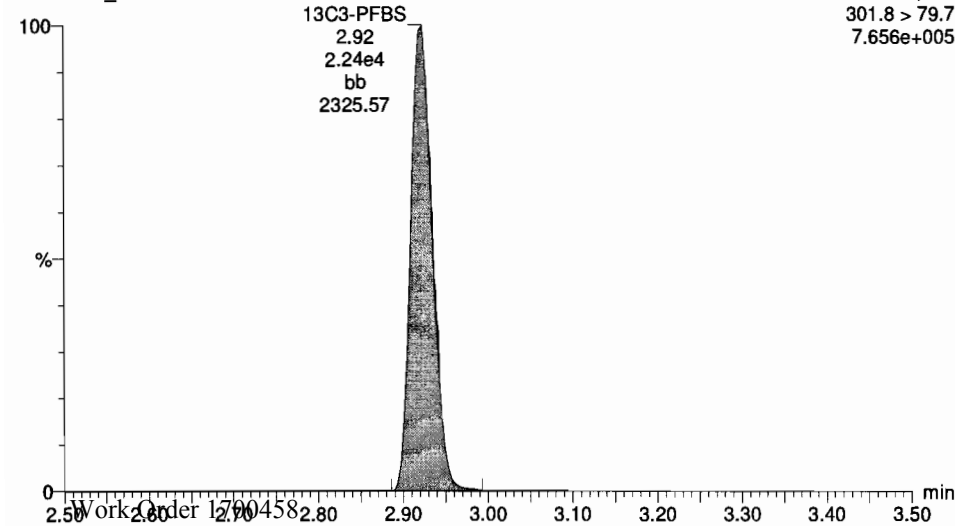
PFHxA

170411G1_8



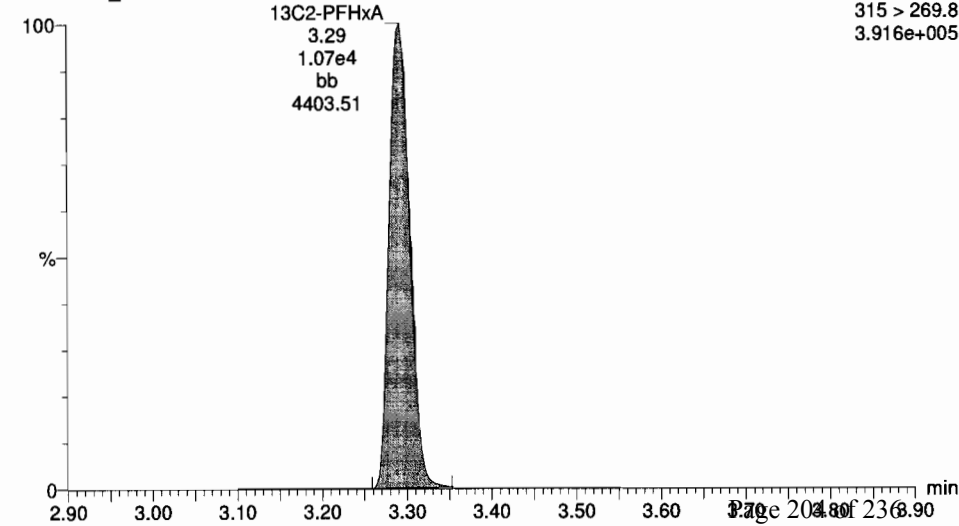
13C3-PFBS

170411G1_8



13C2-PFHxA

170411G1_8



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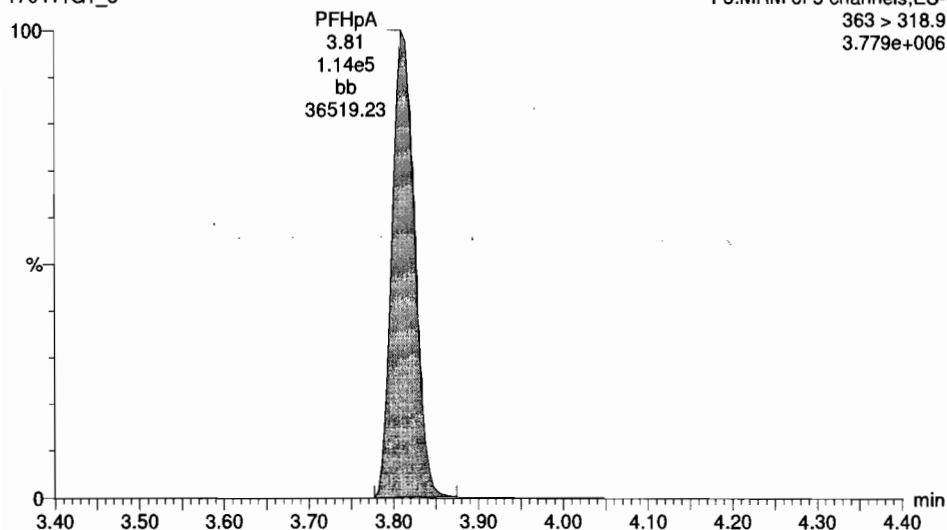
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PFHpA

170411G1_8

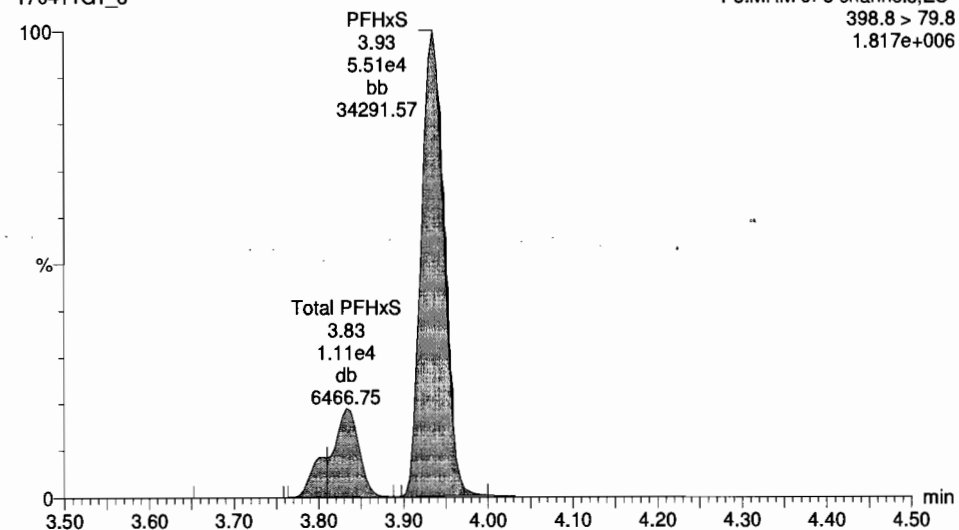
F5:MRM of 5 channels,ES-
363 > 318.9
3.779e+006



Total PFHxS

170411G1_8

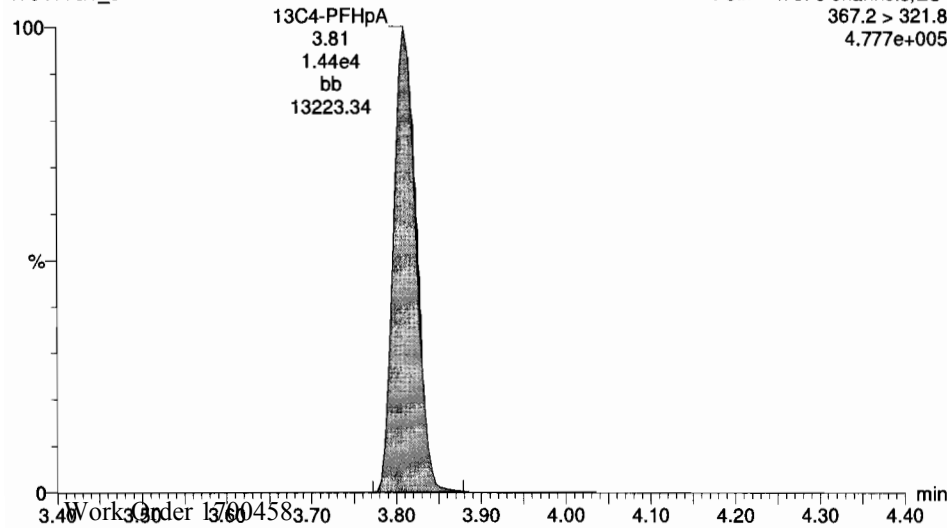
F5:MRM of 5 channels,ES-
398.8 > 79.8
1.817e+006



13C4-PFHpA

170411G1_8

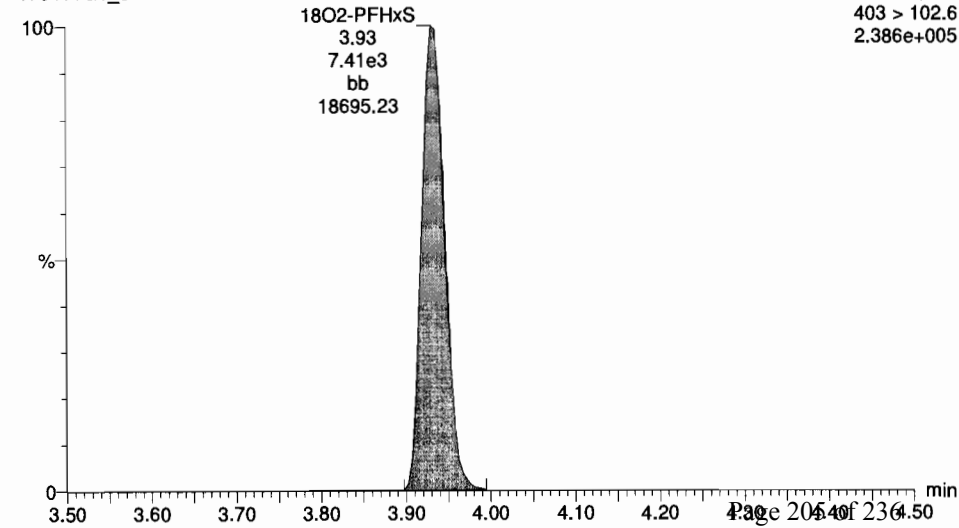
F5:MRM of 5 channels,ES-
367.2 > 321.8
4.777e+005



18O2-PFHxS

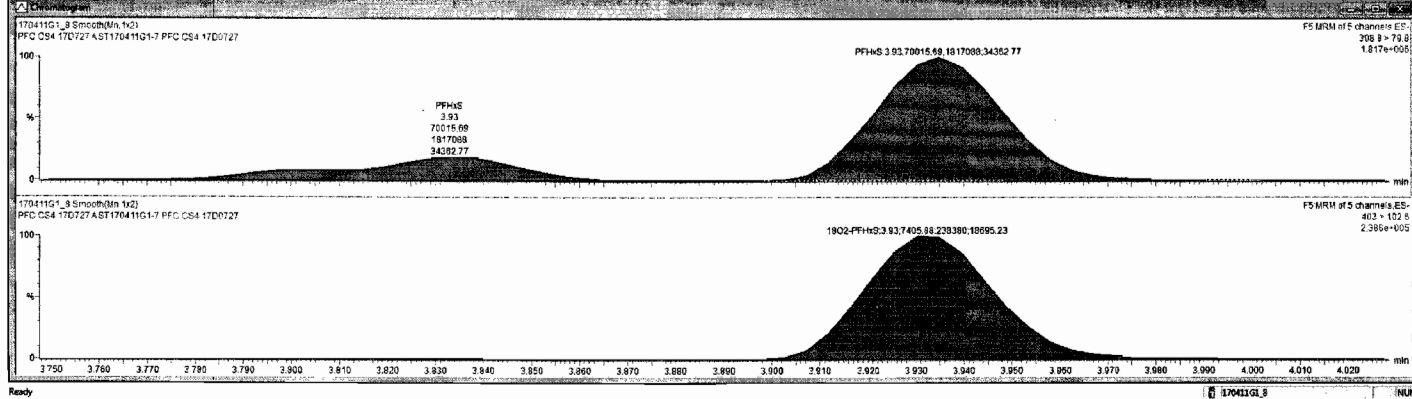
170411G1_8

F5:MRM of 5 channels,ES-
403 > 102.6
2.386e+005



Target: 170411G1
 File Edit View Display Processing Window Help
 170411G1 - S1170411G1-7 PFC C54 170727 - PFC C54 170727 A

Sl	Name	Conc	DL	RelCon	EMPC	Alte Resp	RP	RI	QI	RA	YAN	RRT	Acq Date	Acq Time	Yr	Ch	Flow	D	Sample	Test	Factor	EW	Cal Pa	MSCL
1	PFBA	50.955318	0.0231	101.9	9.740e4	1.73	1	14			1.003	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
2	PFNA	52.746378	0.0254	105.5	4.579e4	2.66	2	15			1.001	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
3	PFBS	51.401984	0.0160	102.0	4.205e4	2.92	3	16			1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
4	PFNA	50.990922	0.0200	102.0	1.329e5	3.26	4	17			1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
5	PFHx	52.230677	0.0465	104.6	1.141e5	3.81	5	18			1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
6	PFHx	52.263974	0.0470	104.9	7.003e4	3.63	6	19			1.001	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
7	6.2 PFS	49.969353	0.109	98.9	2.294e4	4.18	7	21			0.868	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
8	PFDA	50.415469	0.0300	100.0	1.227e5	4.22	8	21			1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
9	PFHxS	51.406134	0.121	102.0	2.200e4	4.31	9	21			1.021	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
10	PFOS	53.466319	0.102	106.9	8.016e4	4.03	10	22			1.001	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
11	PFNA	51.045215	0.0844	102.1	9.517e4	4.57	11	23			1.001	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
12	PFDA	50.136274	0.030	100.3	8.365e4	4.86	12	24			1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
13	6.2 PFS	51.168943	0.0243	102.3	1.315e4	4.84	13	25			0.995	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		YES
14	13C3-PFBA	12.281172	0.00332	98.3	3.132e4	1.184	13	14	28		1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
15	13C3-PFNa	12.016671	0.0113	96.1	1.141e4	0.379	2.06	15	27		0.809	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
16	13C3-PFBS	12.291752	0.0122	98.3	2.239e4	0.728	2.92	16	27		0.989	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
17	13C2-PFNa	4.991749	0.00279	99.0	1.074e4	0.265	3.26	17	27		1.001	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
18	13C4-PFNa	11.452100	0.00217	91.7	1.440e4	2.961	3.01	18	28		0.995	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
19	1802-PFNaS	12.622879	0.00196	102.0	7.406e3	0.442	3.93	19	28		0.999	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
20	13C2-6.2 PFS	14.738037	0.0149	117.9	1.427e4	1.182	4.16	20	29		0.800	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
21	13C2-PFDA	12.233323	0.00274	97.9	2.295e4	3.233	4.22	21	29		1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO
22	13C6-PFOS	12.324213	0.0241	95.6	1.225e4	1.271	4.63	22	30		1.000	11-Apr-17	12:59:54	ST170411G	PFC C54 170727	1.0	1.00				1.0	1.00		NO



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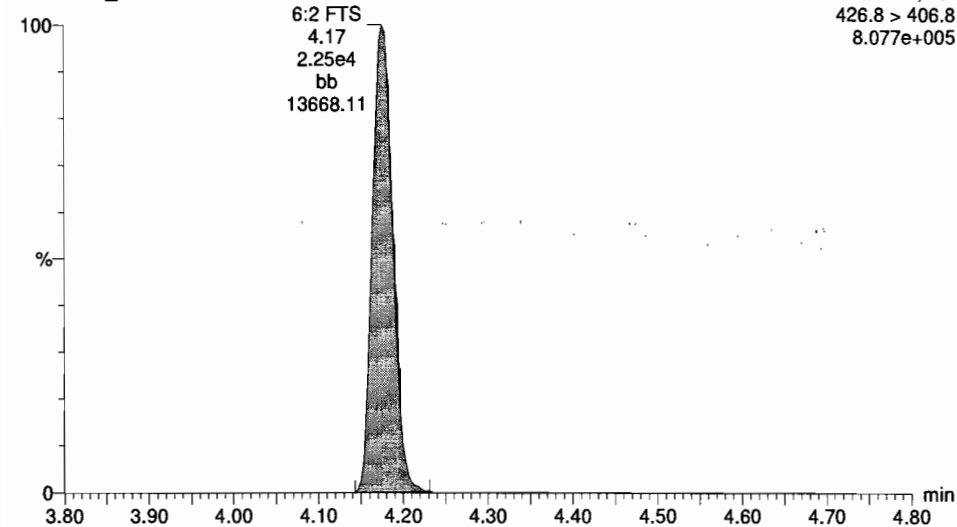
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-7 PFC CS4 17D0727, Description: PFC CS4 17D727 A, Name: 170411G1_8, Date: 11-Apr-2017, Time: 12:59:54, Instrument: , Lab: , User:

6:2 FTS

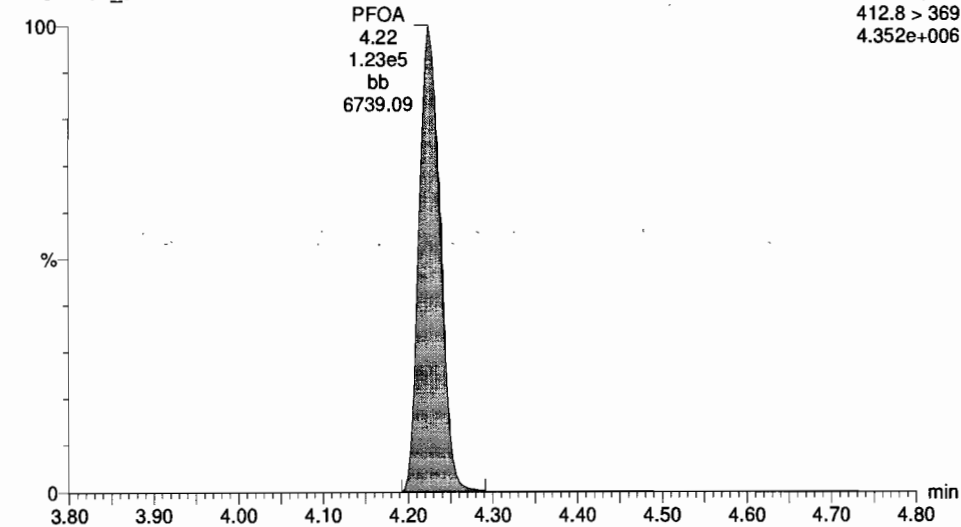
170411G1_8



F6:MRM of 14 channels,ES-
426.8 > 406.8
8.077e+005

Total PFOA

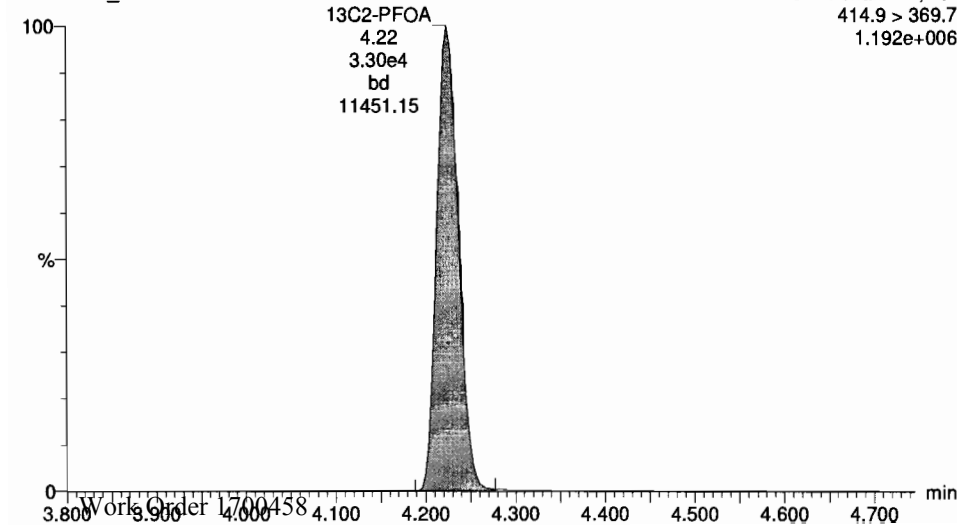
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F6:MRM of 14 channels,ES-
412.8 > 369
4.352e+006

13C2-PFOA

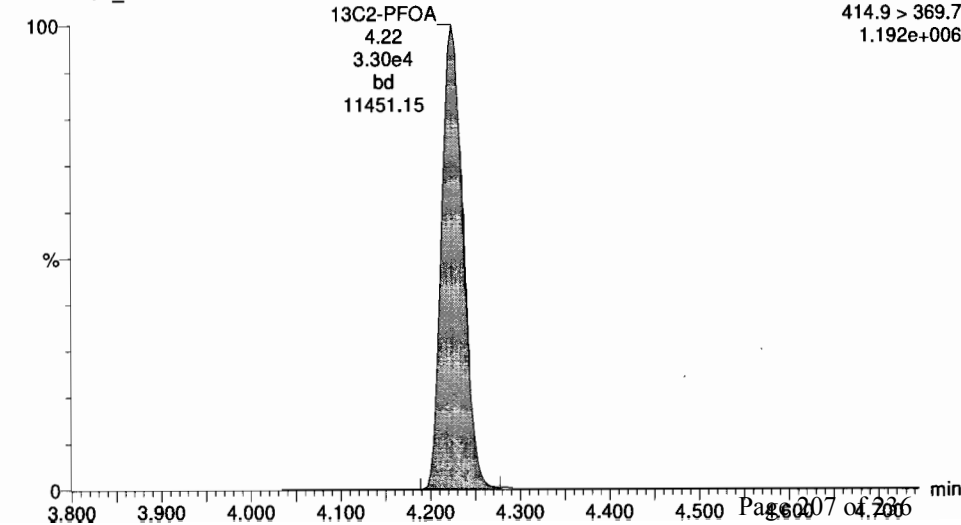
170411G1_8



F6:MRM of 14 channels,ES-
414.9 > 369.7
1.192e+006

13C2-PFOA

170411G1_8



F6:MRM of 14 channels,ES-
414.9 > 369.7
1.192e+006

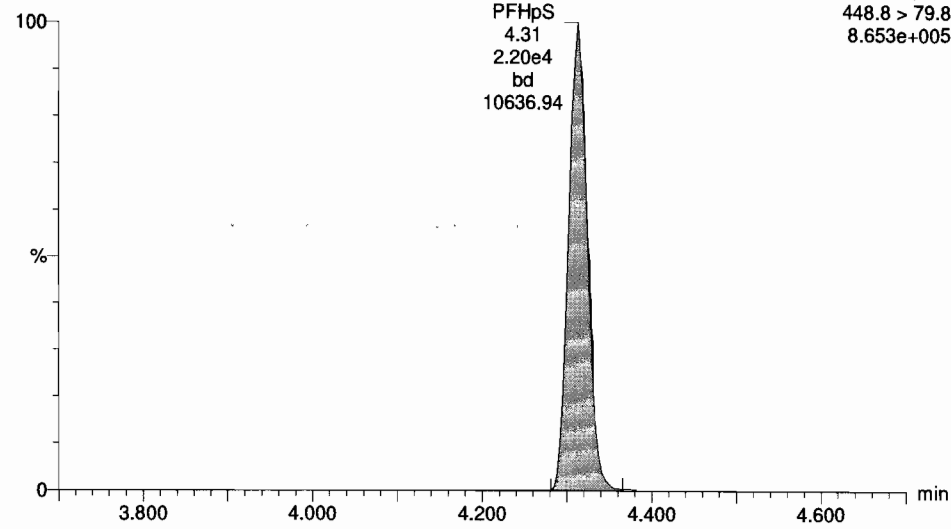
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Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-7 PFC CS4 17D0727, Description: PFC CS4 17D727 A, Name: 170411G1_8, Date: 11-Apr-2017, Time: 12:59:54, Instrument: , Lab: , User:

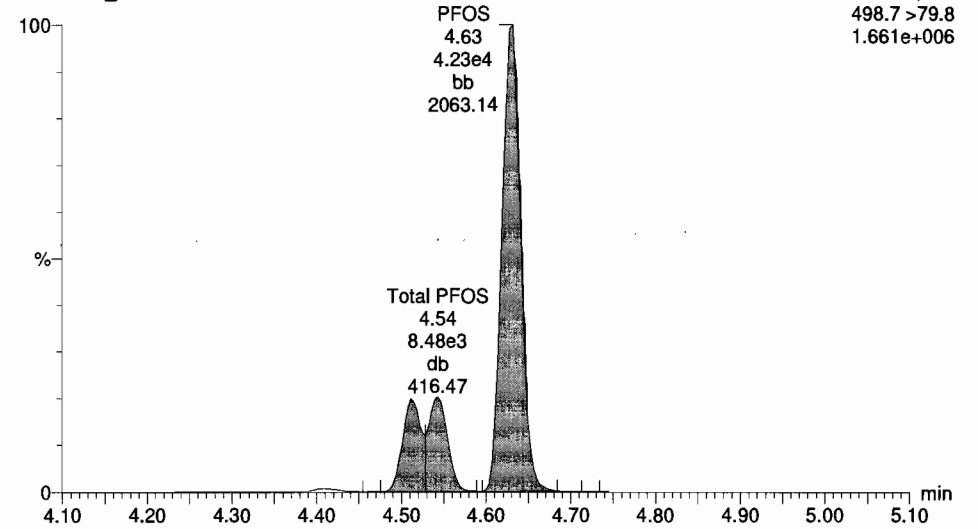
PFHpS

170411G1_8



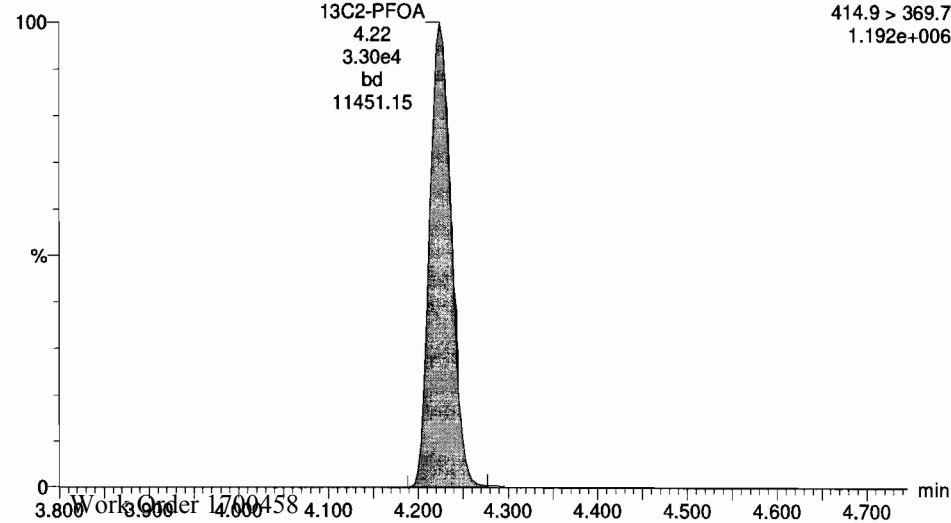
Total PFOS

170411G1_8



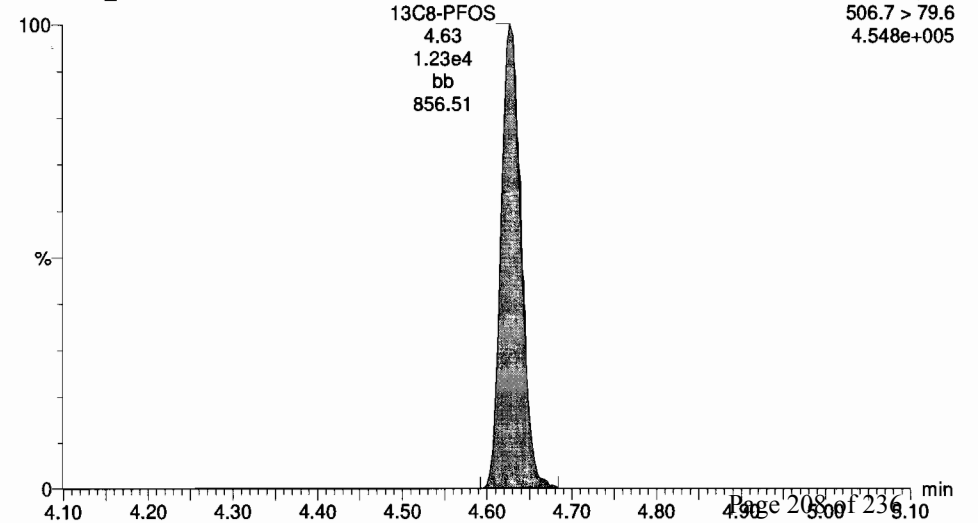
13C2-PFOA

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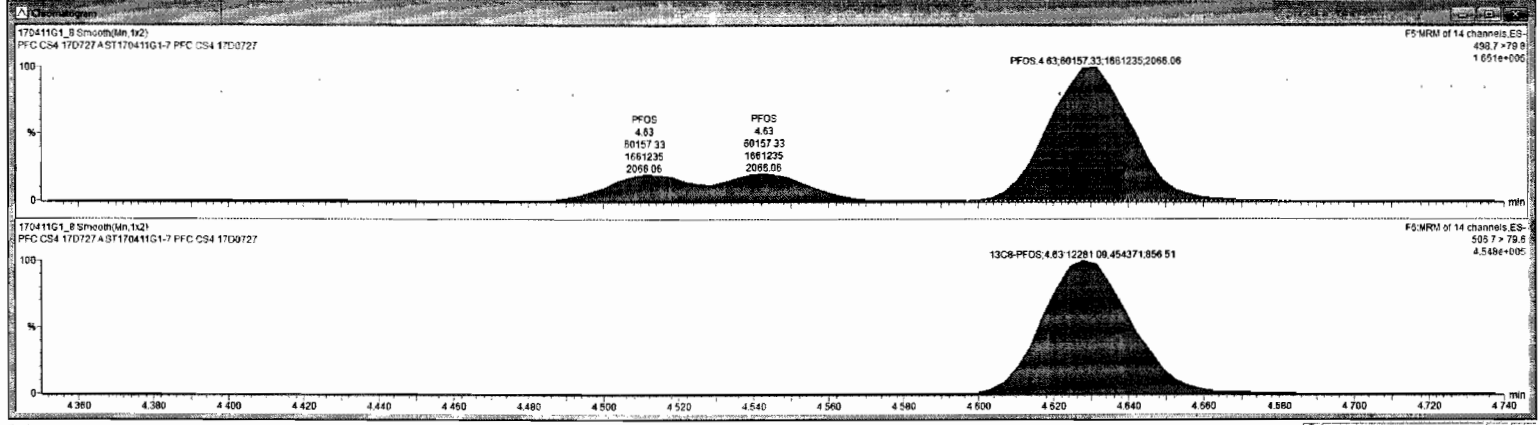


13C8-PFOS

170411G1_8



Peak	Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	CSF	RA	Y/N	RTT	Acq Date	Acq Time	I#	Ch#	Vol	Sample No	Factor	SWH	Col File	>MOL
1	PFBA	50.953318	0.0231	101.9		9.748e4	1.75	11	14				1.903	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
2	PFNA	52.745378	0.0354	105.5		4.973e4	2.66	2	15				1.903	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
3	PFBS	51.401964	0.0100	102.8		8.205e4	2.90	3	16				1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
4	PFNA	50.999822		102.0		1.529e5	3.29	4	17				1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
5	PFNa	52.230677		104.5		1.141e5	3.61	5	18				1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
6	PFNaS	49.493674		99.0		7.002e4	3.93	6	19				1.901	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
7	6.2.FTS	48.969353	0.109	99.9		2.254e4	4.19	7	21				0.386	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
8	PFDA	56.419489		100.8		1.227e5	4.22	8	21				1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
9	PFNaS	51.406134	0.171	102.5		2.287e4	4.31	9	21				1.921	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
10	PFDA	53.085179	0.192	106.9		8.918e4	4.65	10	22				1.907	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
11	PFNA	51.045215	0.0944	102.1		9.617e4	4.52	11	23				1.901	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
12	PFDA	56.136274		100.3		6.300e4	4.86	12	24				1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
13	6.2.FTS	51.166943	0.0243	102.3		1.315e4	4.64	13	25				0.995	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		YES	
14	13C3-PFBA	12.291172	0.00332	96.3		3.108e4	1.168	1.73	14	26			1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
15	13C3-PFPA	12.816671	0.0113	96.1		1.141e4	0.379	2.66	15	27			0.899	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
16	13C3-PFBS	12.291752	0.0122	98.3		2.239e4	0.726	2.90	16	27			0.899	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
17	13C3-PFNA	4.9917478	0.00279	99.9		1.071e4	0.668	3.29	17	27			1.901	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
18	13C3-PFNa	11.457160	0.00217	91.7		1.446e4	0.961	3.61	18	28			0.998	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
19	18O2-PFNaS	12.829879	0.00166	102.6		7.466e3	0.442	3.93	19	28			0.999	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
20	13C2-6.2.FTS	14.739037	0.0149	117.9		1.427e4	1.162	4.18	20	29			0.600	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
21	13C2-PFDA	12.233323	0.00274	97.9		3.296e4	3.233	4.22	21	29			1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	
22	13C8-PFOS	12.324213	0.0341	96.6		1.226e4	1.277	4.63	22	30			1.900	11-Apr-17	12:59:54			ST170411G..PFC.CS4.170727..	1.0	1.00		NO	



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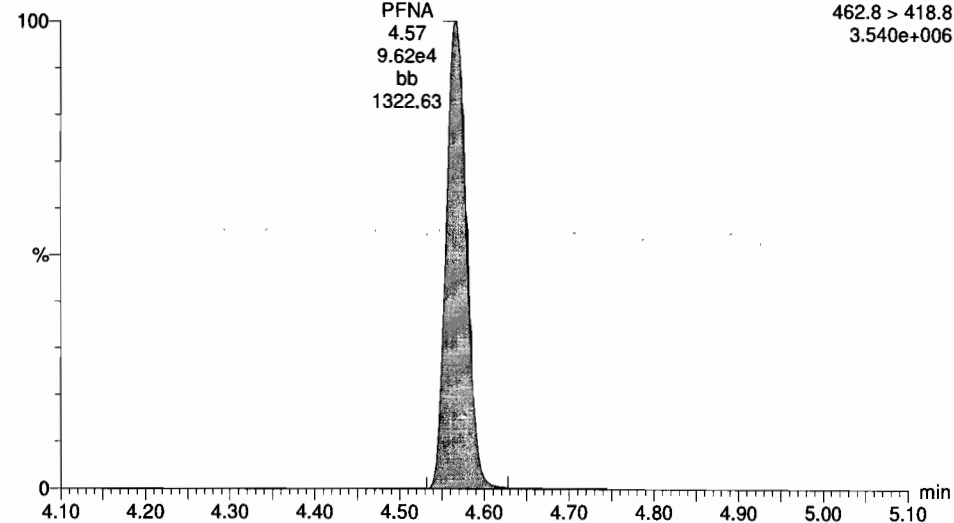
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-7 PFC CS4 17D0727, Description: PFC CS4 17D727 A, Name: 170411G1_8, Date: 11-Apr-2017, Time: 12:59:54, Instrument: , Lab: , User:

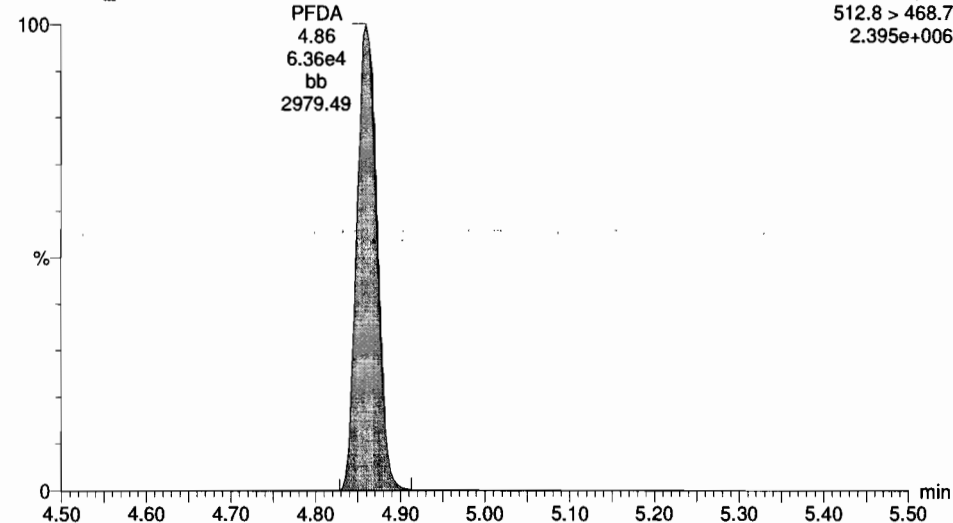
PFNA

170411G1_8



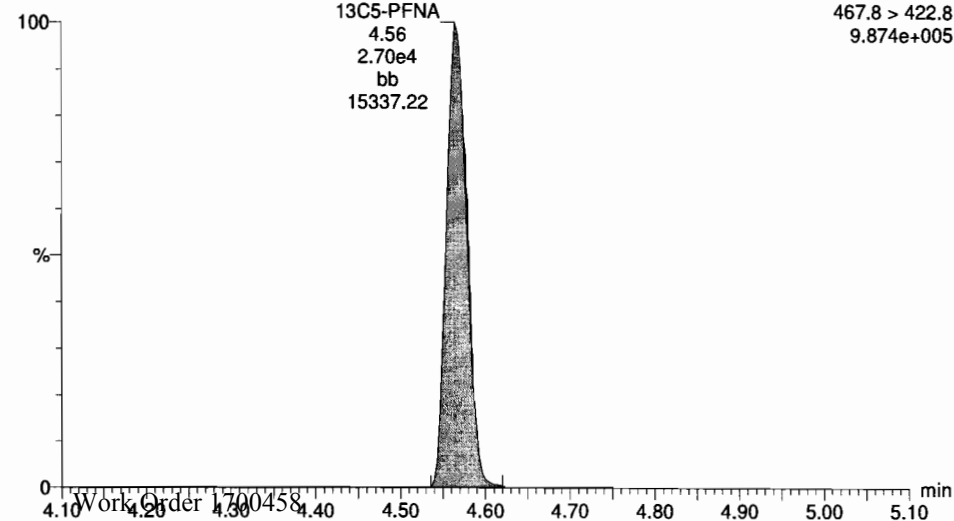
PFDA

170411G1_8



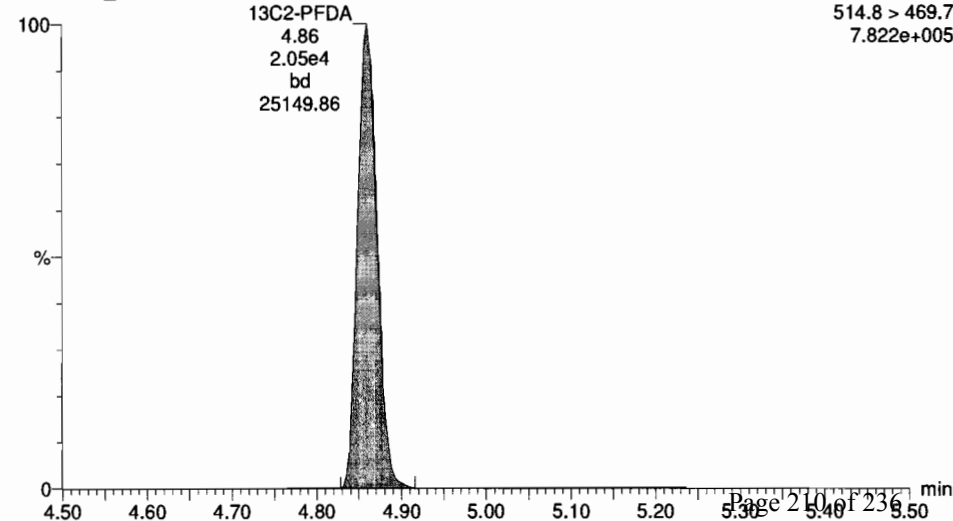
13C5-PFNA

170411G1_8



13C2-PFDA

170411G1_8



Dataset: Untitled

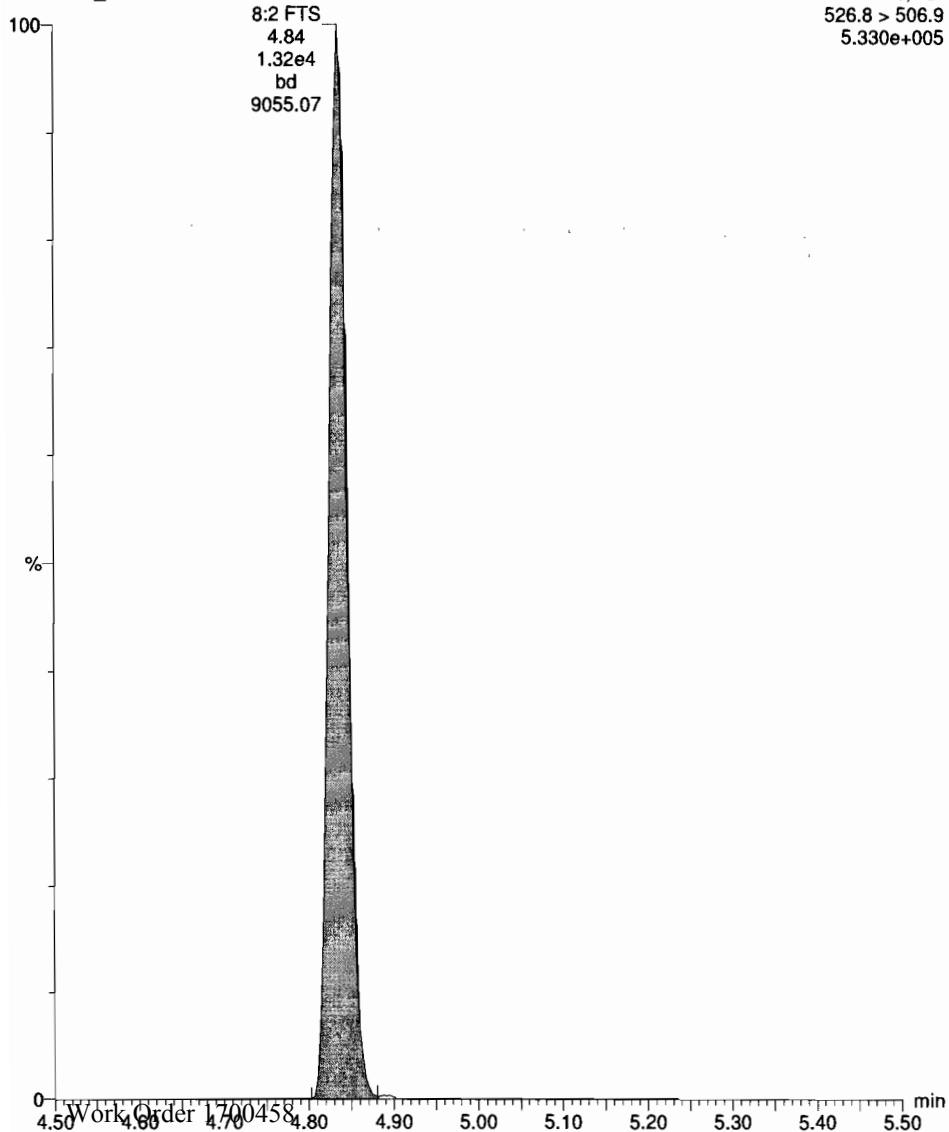
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-7 PFC CS4 17D0727, Description: PFC CS4 17D727 A, Name: 170411G1_8, Date: 11-Apr-2017, Time: 12:59:54, Instrument: , Lab: , User:

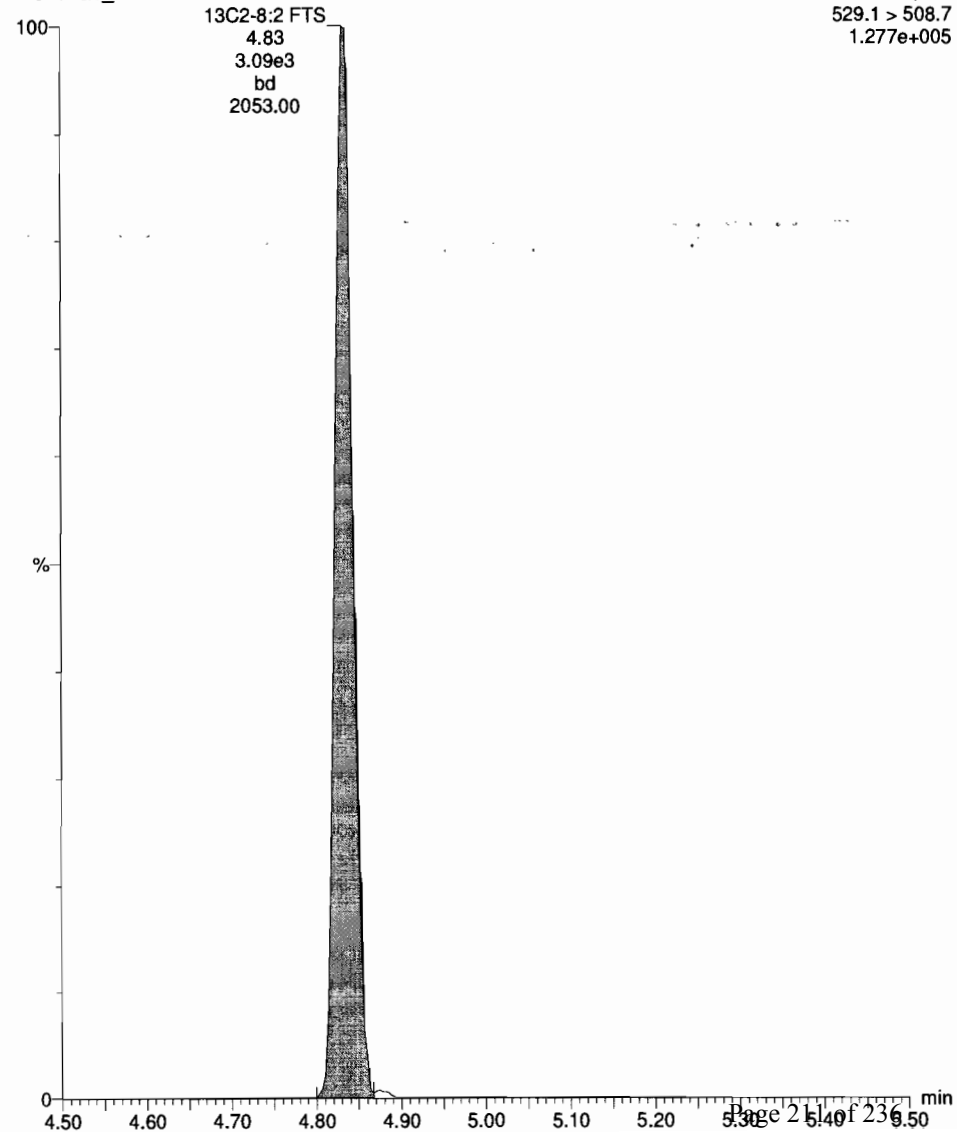
8:2 FTS

170411G1_8



13C2-8:2 FTS

170411G1_8



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

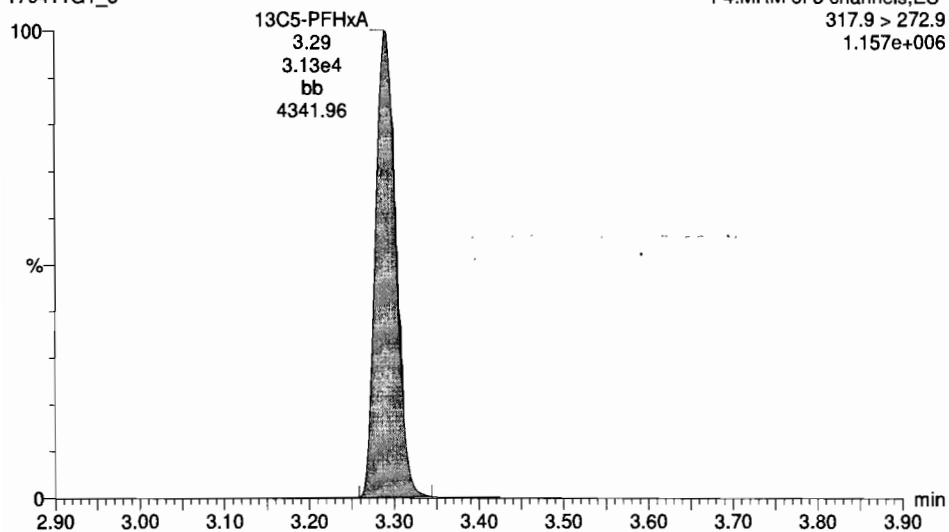
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13C5-PFHxA

170411G1_8

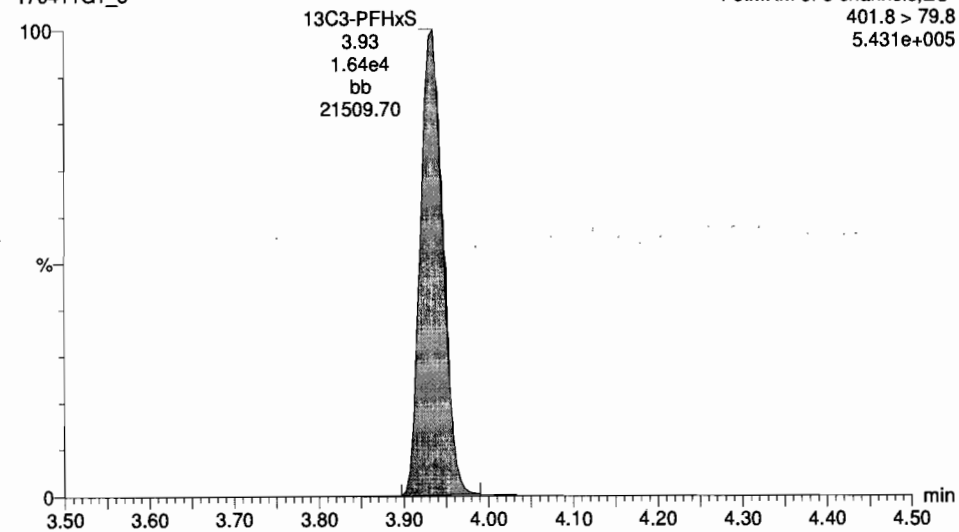
F4:MRM of 3 channels,ES-
317.9 > 272.9
1.157e+006



13C3-PFHxS

170411G1_8

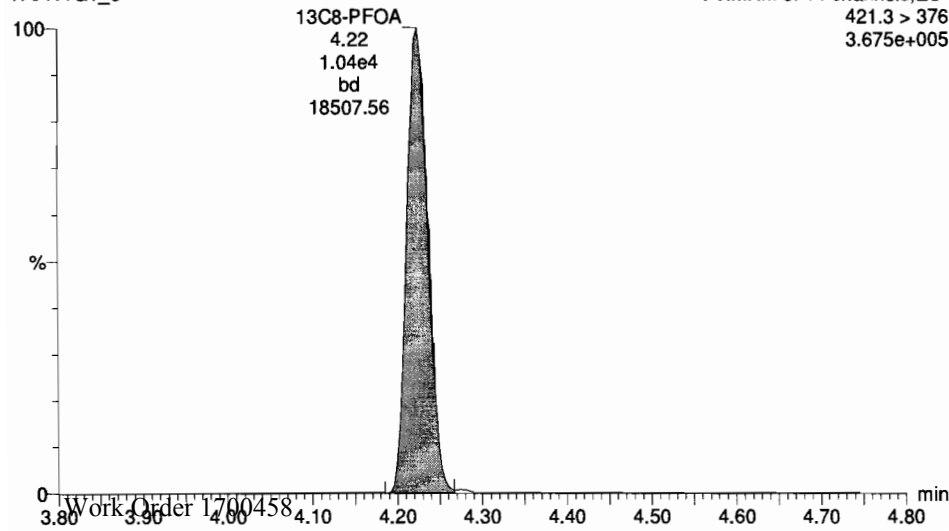
F5:MRM of 5 channels,ES-
401.8 > 79.8
5.431e+005



13C8-PFOA

170411G1_8

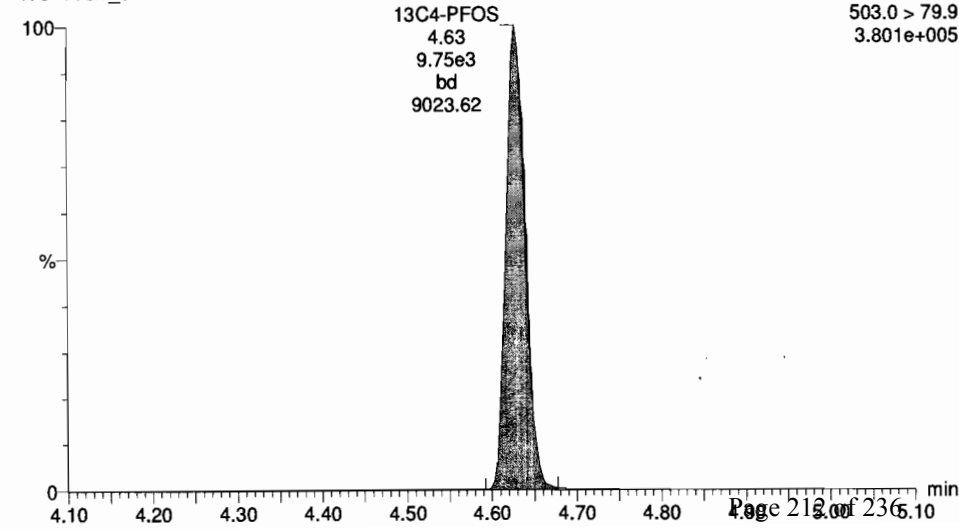
F6:MRM of 14 channels,ES-
421.3 > 376
3.675e+005



13C4-PFOS

170411G1_8

F6:MRM of 14 channels,ES-
503.0 > 79.9
3.801e+005



Dataset: Untitled

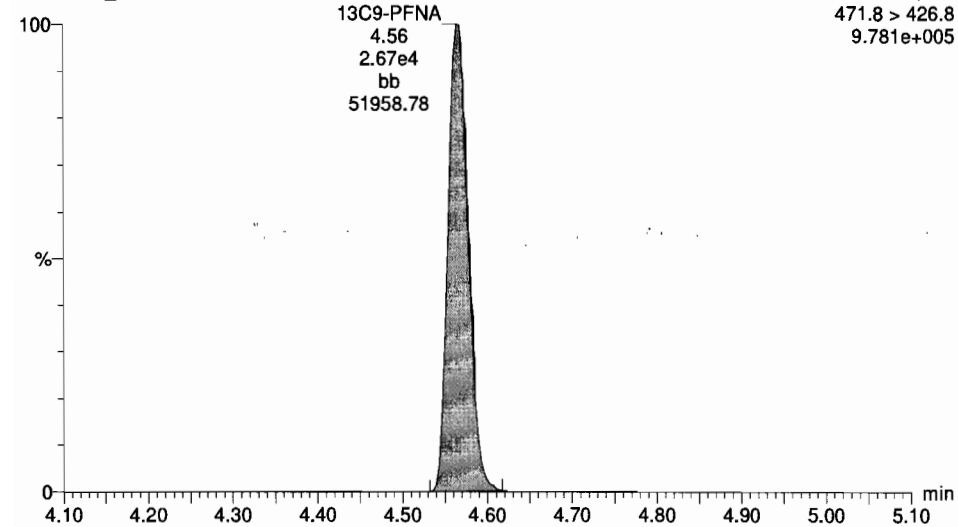
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ID: ST170411G1-7 PFC CS4 17D0727, Description: PFC CS4 17D727 A, Name: 170411G1_8, Date: 11-Apr-2017, Time: 12:59:54, Instrument: , Lab: , User:

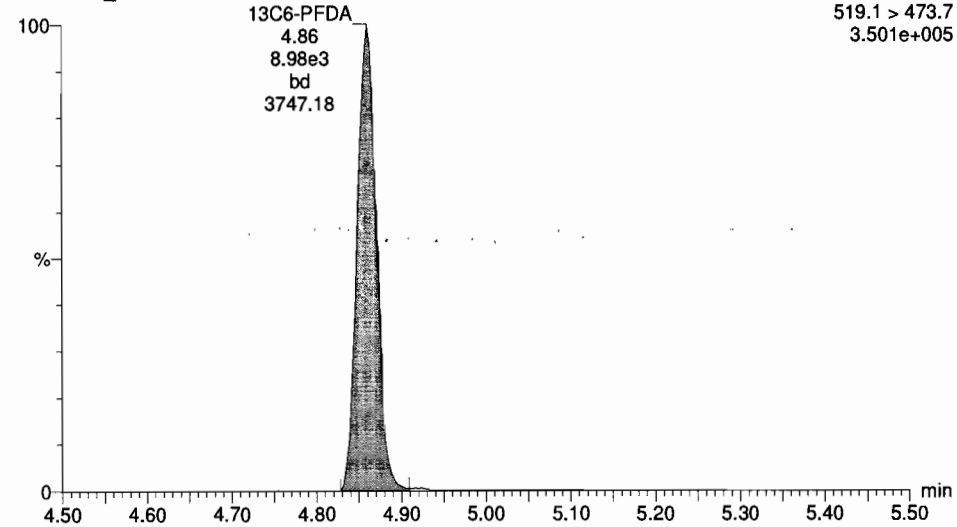
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170411G1_8



13C6-PFDA

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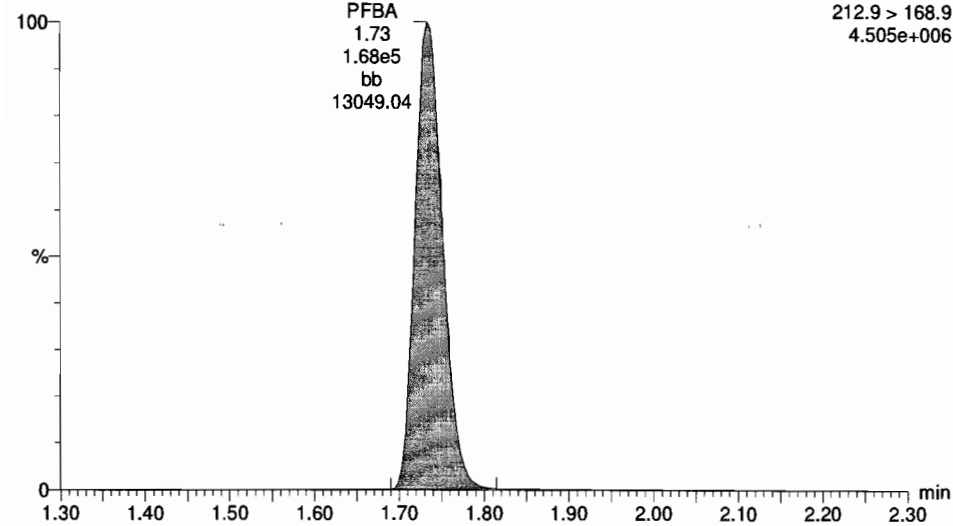
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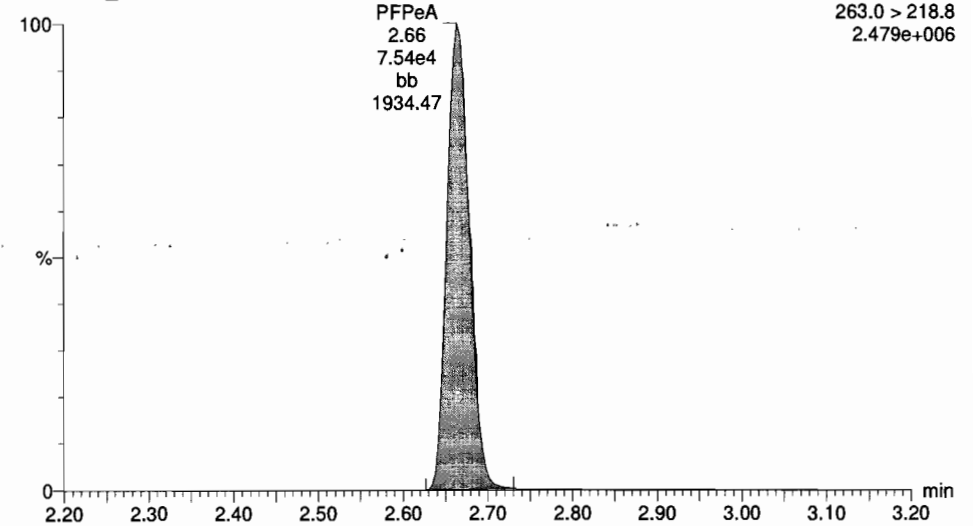
PFBA

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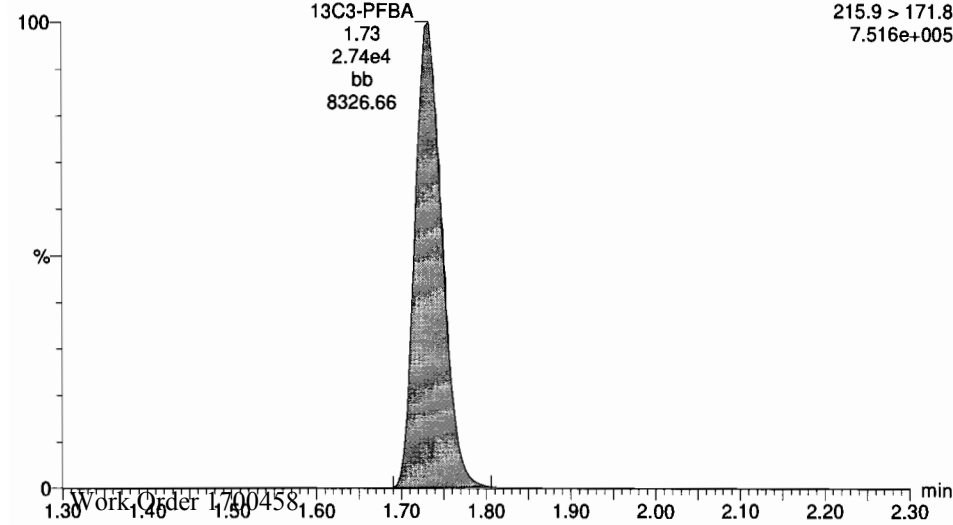
PFPeA

170411G1_9



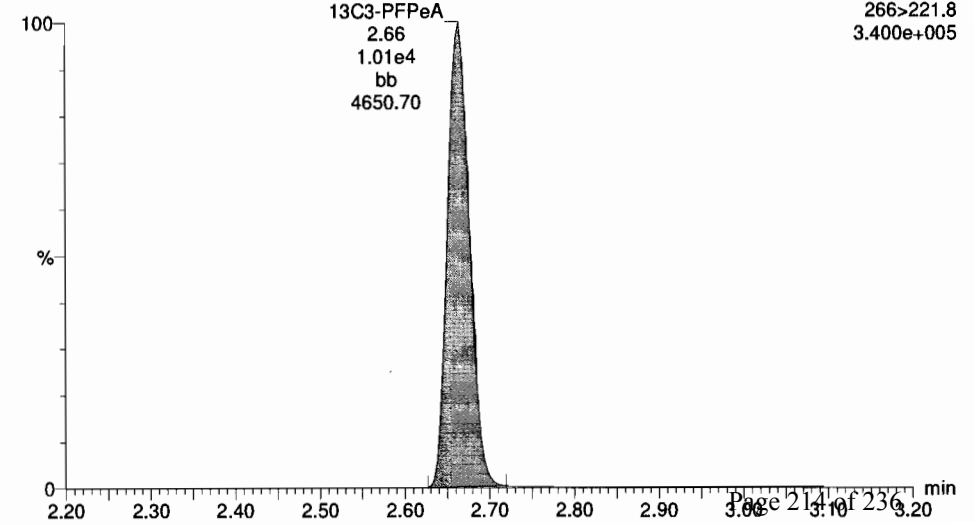
13C3-PFBA

170411G1_9



13C3-PFPeA

170411G1_9



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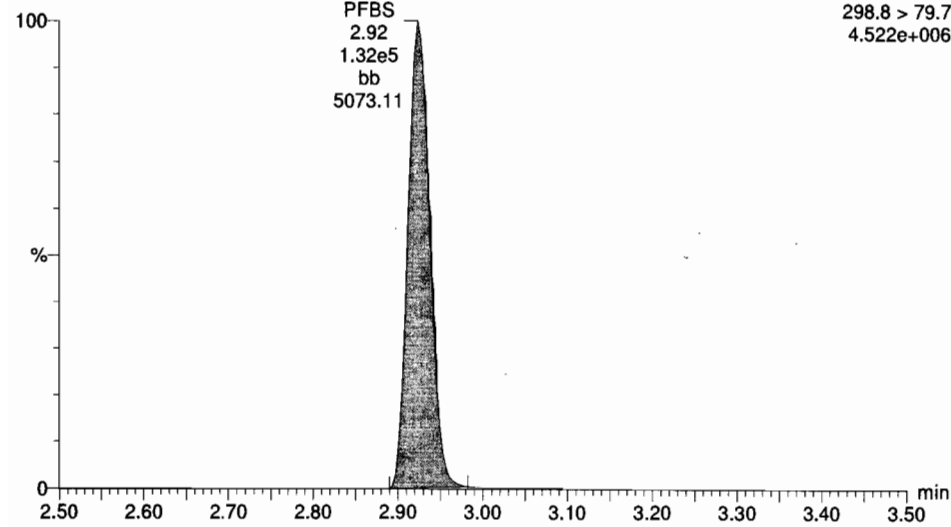
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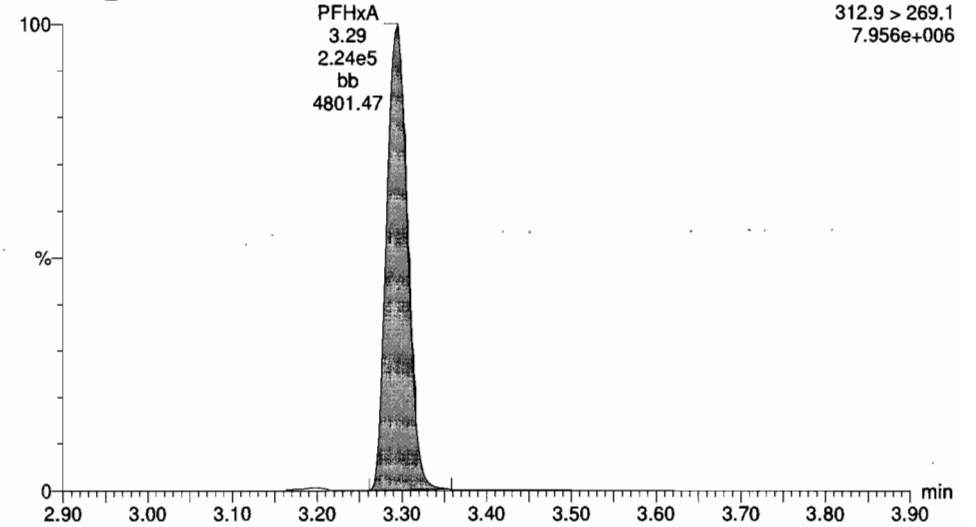
Total PFBS

170411G1_9



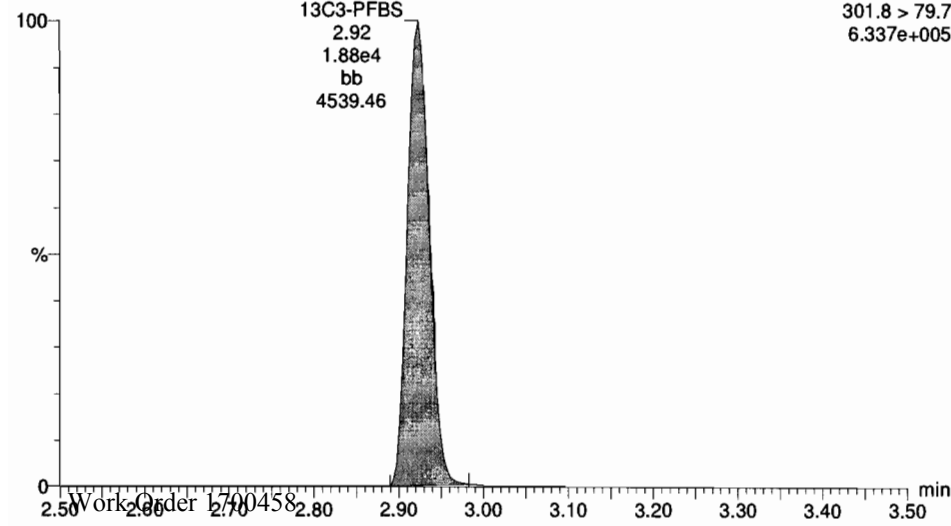
PFHxA

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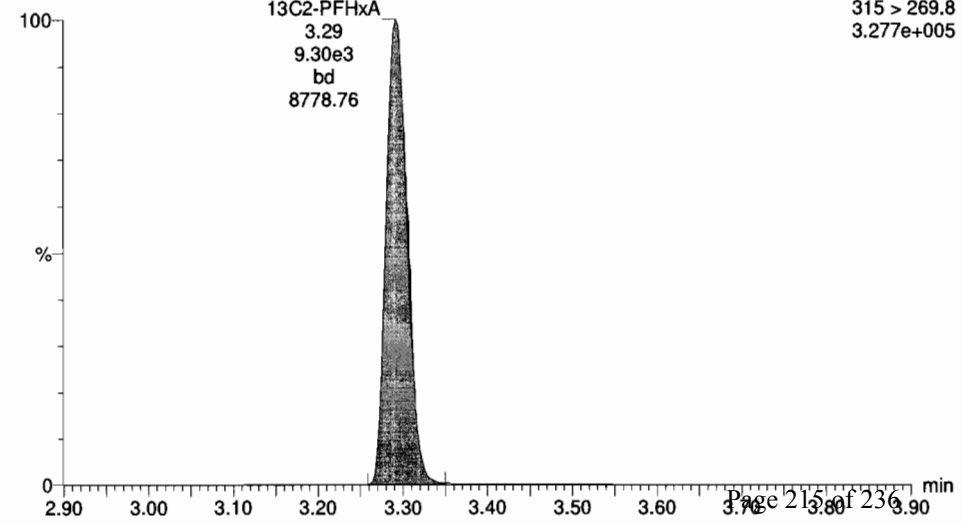
13C3-PFBS

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13C2-PFHxA

170411G1_9



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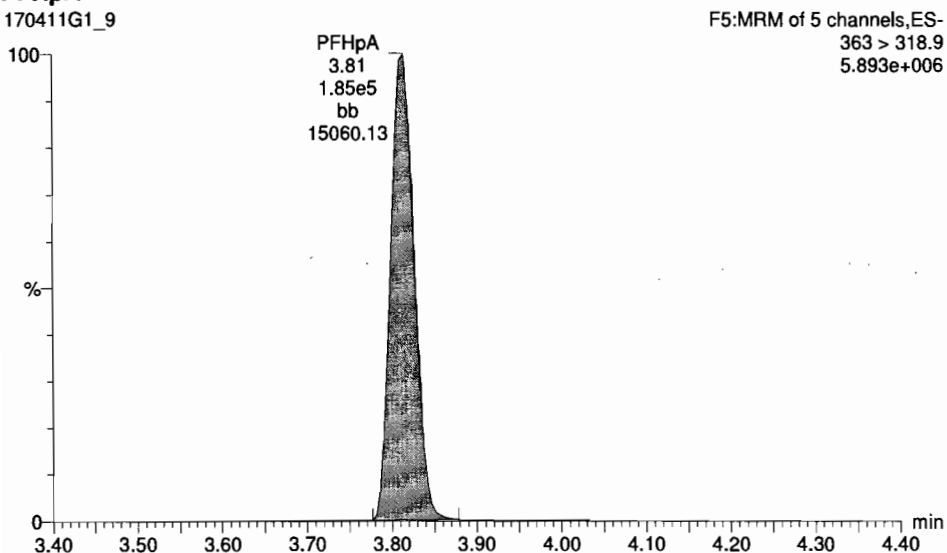
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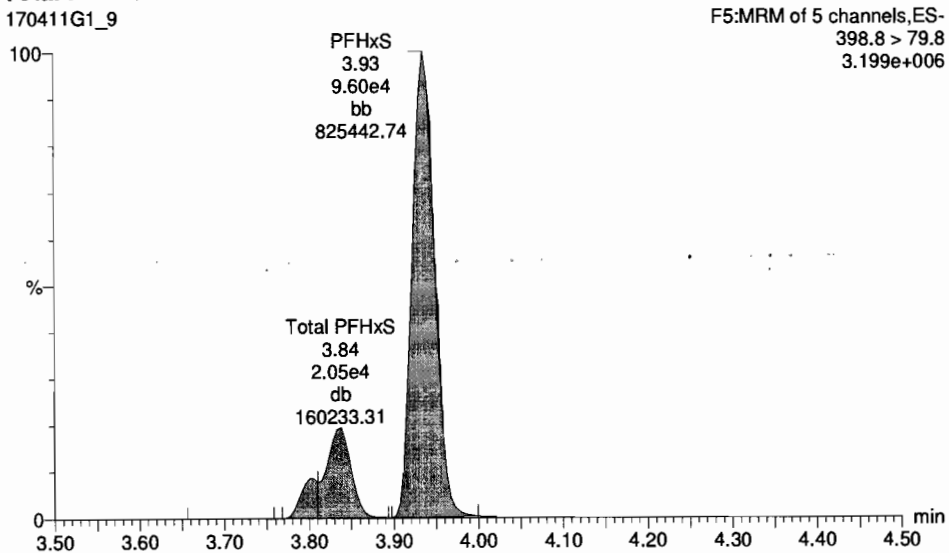
PFHpA

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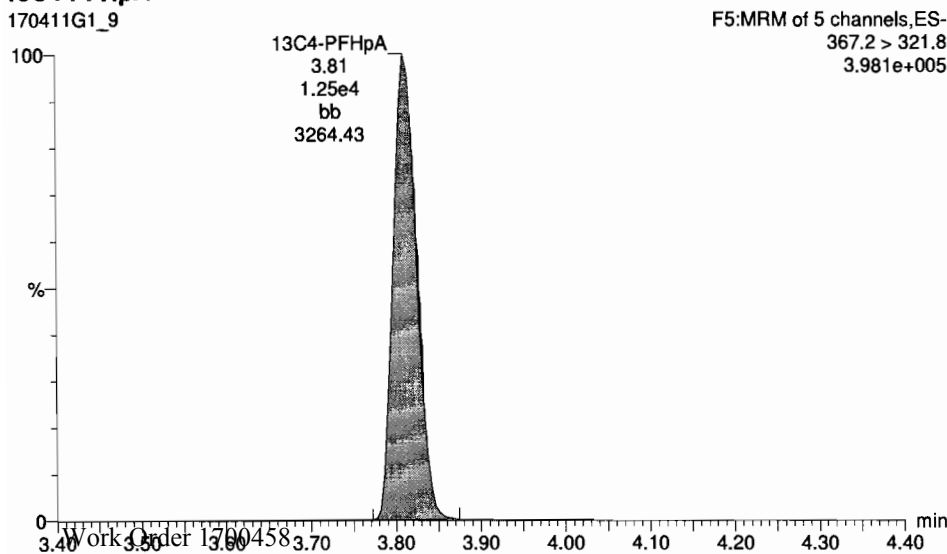
Total PFHxS

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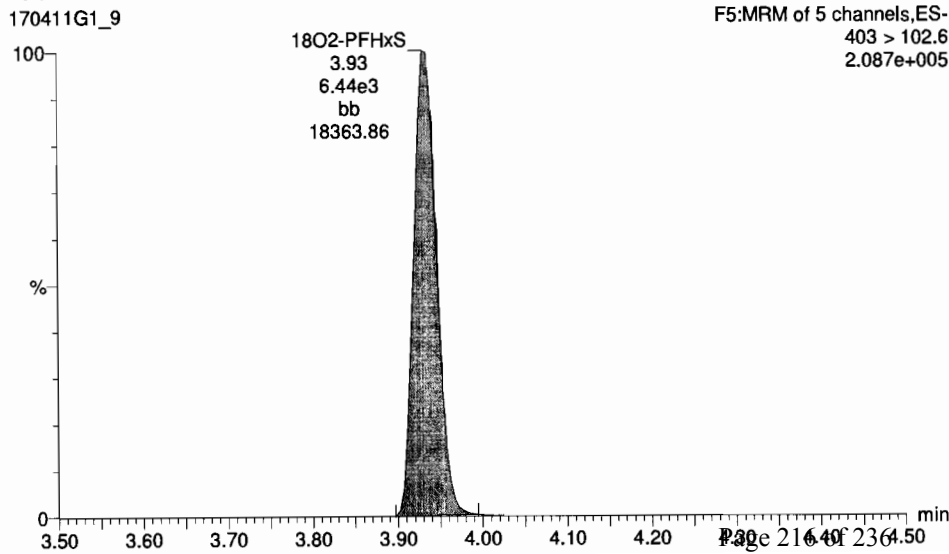
13C4-PFHpA

170411G1_9

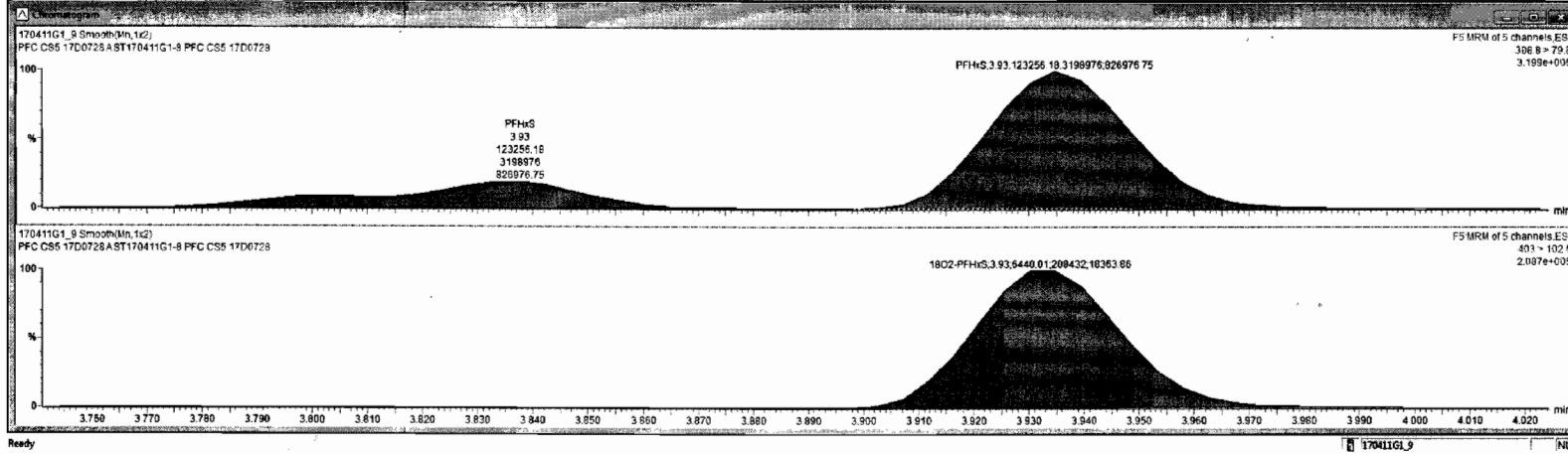


18O2-PFHxS

170411G1_9



Name	Conc	DL	%RAC	EMPC	Abn Resp	R/R	RT	#	SA	RA	Y/N	RT1	Acq Date	Acq Time	1-Chr/Instr	ID	Sample Text	Factor1	SW	Cal File	MDL
1	PFBA	98.838632	0.0323	99.8			1.67865	1	13	14		1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
2	PFPeA	97.630130	0.140	97.6			7.58164	2	66	2		1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
3	PFBS	98.717849	0.0588	99.7			1.33265	2	92	16		1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
4	PFHxA	99.368333		99.4			2.24066	3	30	4		1.001	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
5	PFHxA	97.580953	0.8122	97.6			1.85365	3	81	18		1.001	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
6	PFHxS	98.389928		99.9			2.25048	3	33	8		1.001	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
7	8.2 FTS	100.0004	0.200	100.0			4.27844	4	18	7		0.980	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
8	PFDA	96.181156		99.2			2.11665	4	23	8		1.001	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
9	PFHxS	99.169146	0.293	99.2			3.73044	4	31	9		1.021	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
10	PFOS	96.439926	0.0547	96.4			1.02065	4	63	10		1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
11	PFNA	99.262886	0.0583	99.3			1.68365	4	57	11		1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
12	PFDA	99.848913		99.6			1.11265	4	86	12		1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
13	8.2 FTS	97.772248	0.0388	97.8			2.03864	4	84	13		0.995	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		YES
14	13C3-PFBA	12.866368	0.00289	101.3			2.75864	1.168	1.73	14	26	1.003	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
15	13C3-PFNA	12.831288	0.00631	101.0			1.02164	0.379	2.86	15	27	0.889	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
16	13C3-PFBS	12.214534	0.00626	97.7			1.08364	0.728	2.92	16	27	0.888	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
17	13C2-PFNA	5.078982	0.00142	101.5			8.29864	0.869	3.29	17	27	1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
18	13C4-PFNA	11.349515	0.00845	99.8			1.25164	0.961	3.81	18	28	0.999	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
19	1802-PFHS	12.708106	0.00171	101.7			6.44063	0.442	3.93	19	28	0.999	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
20	13C2-8.2 FTS	17.523998	0.00912	140.2			1.51364	1.162	4.18	20	29	0.600	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
21	13C2-PFOA	12.056646	0.00645	96.3			2.89364	3.233	4.22	21	29	1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO
22	13C8-PFOS	14.141361	0.00307	113.1			1.16164	1.277	4.83	22	30	1.000	11-Apr-17	13:12:32		ST170411G...	PFC CS5 17D07...	1.0	1.00		NO



Dataset: Untitled

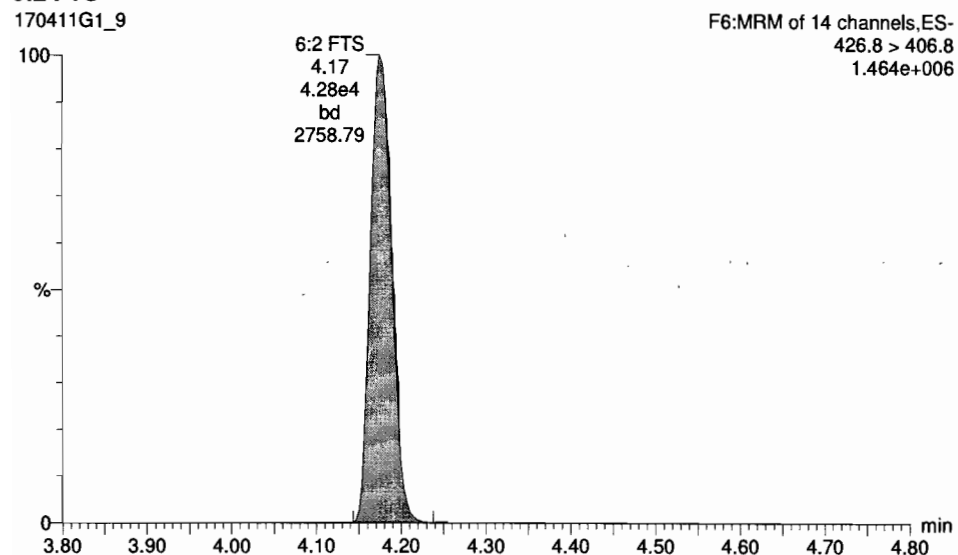
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-8 PFC CS5 17D0728, Description: PFC CS5 17D0728 A, Name: 170411G1_9, Date: 11-Apr-2017, Time: 13:12:32, Instrument: , Lab: , User:

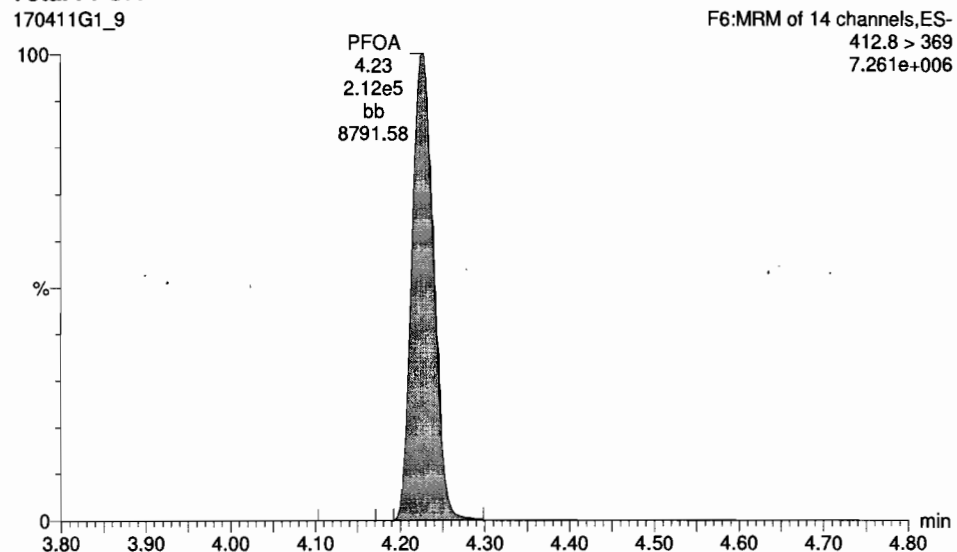
6:2 FTS

170411G1_9



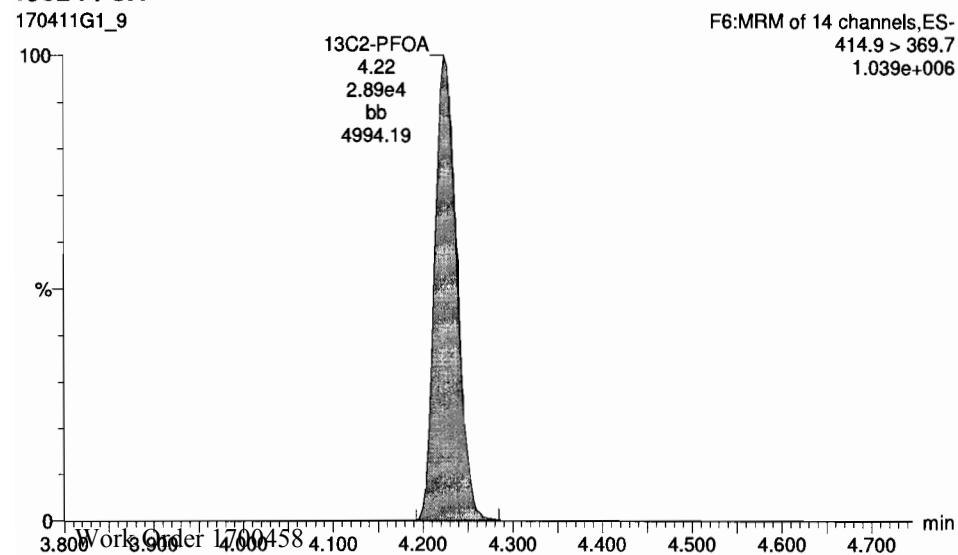
Total PFOA

170411G1_9



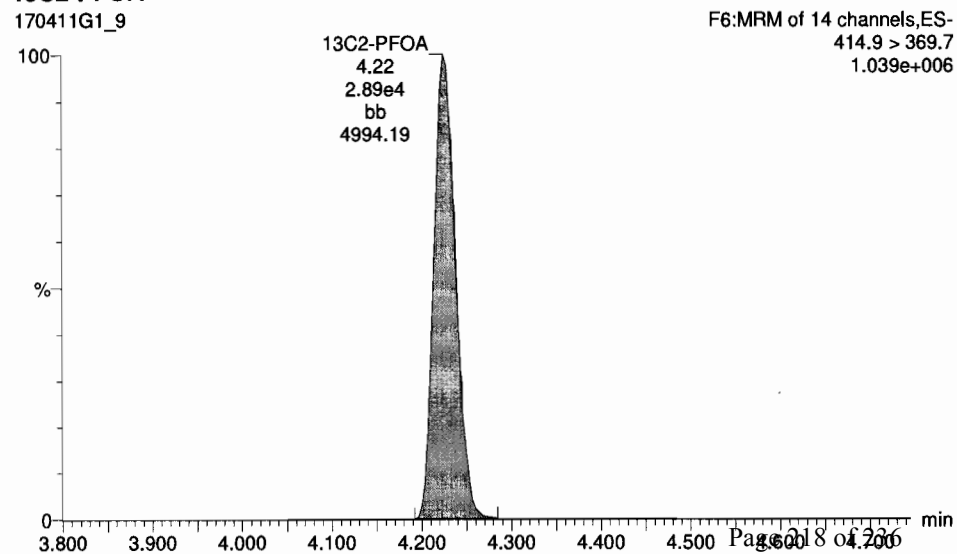
13C2-PFOA

170411G1_9



13C2-PFOA

170411G1_9



Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

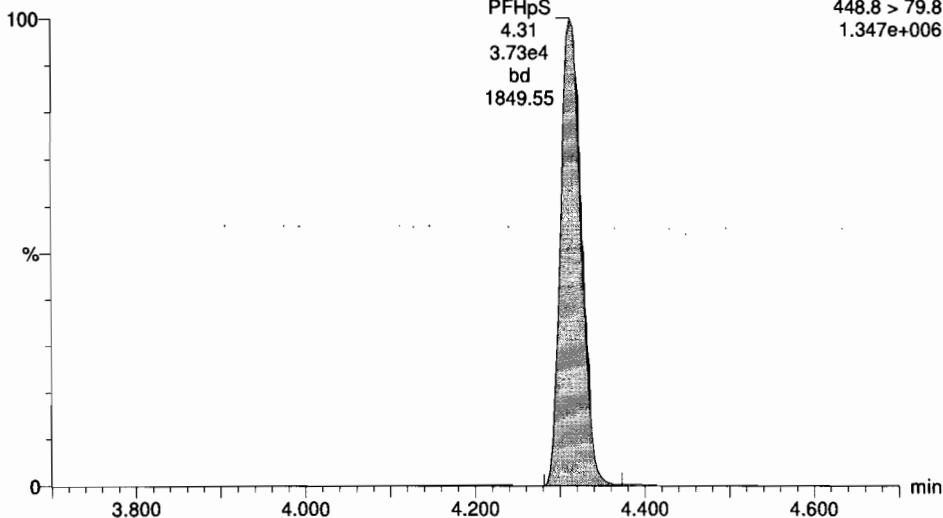
Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-8 PFC CS5 17D0728, Description: PFC CS5 17D0728 A, Name: 170411G1_9, Date: 11-Apr-2017, Time: 13:12:32, Instrument: , Lab: , User:

PFHpS

170411G1_9

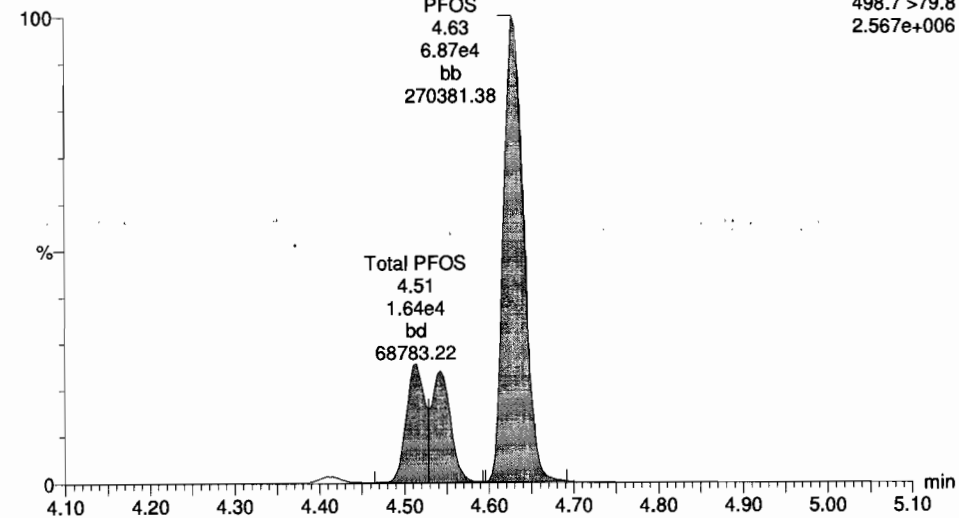
F6:MRM of 14 channels,ES-
448.8 > 79.8
1.347e+006



Total PFOS

170411G1_9

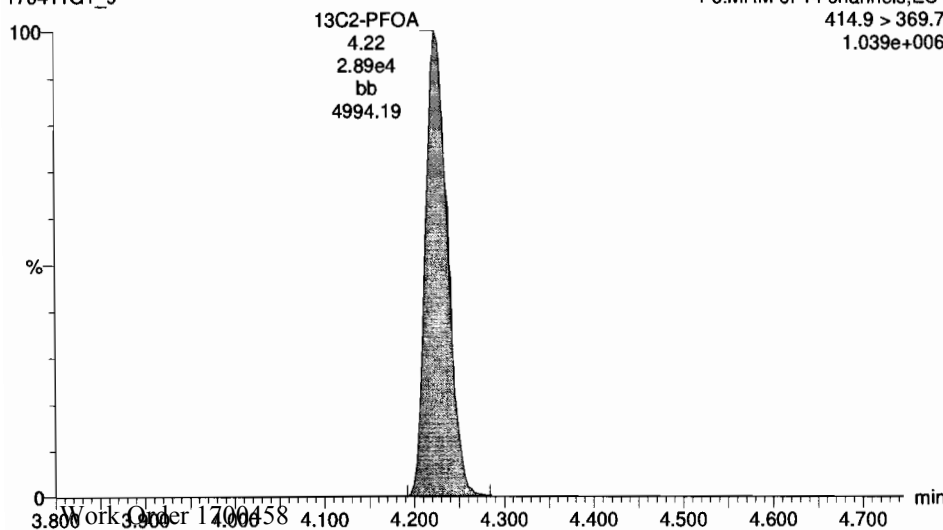
F6:MRM of 14 channels,ES-
498.7 > 79.8
2.567e+006



13C2-PFOA

170411G1_9

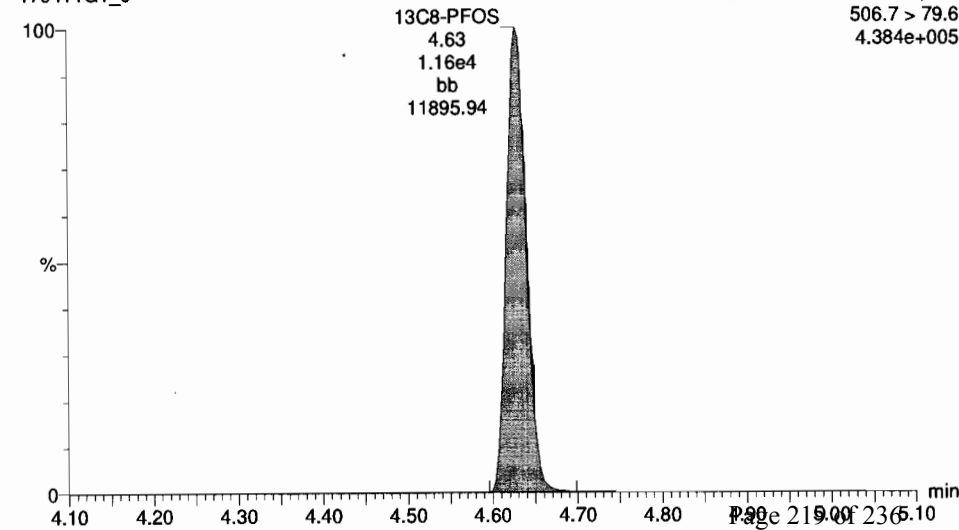
F6:MRM of 14 channels,ES-
414.9 > 369.7
1.039e+006



13C8-PFOS

170411G1_9

F6:MRM of 14 channels,ES-
506.7 > 79.6
4.384e+005

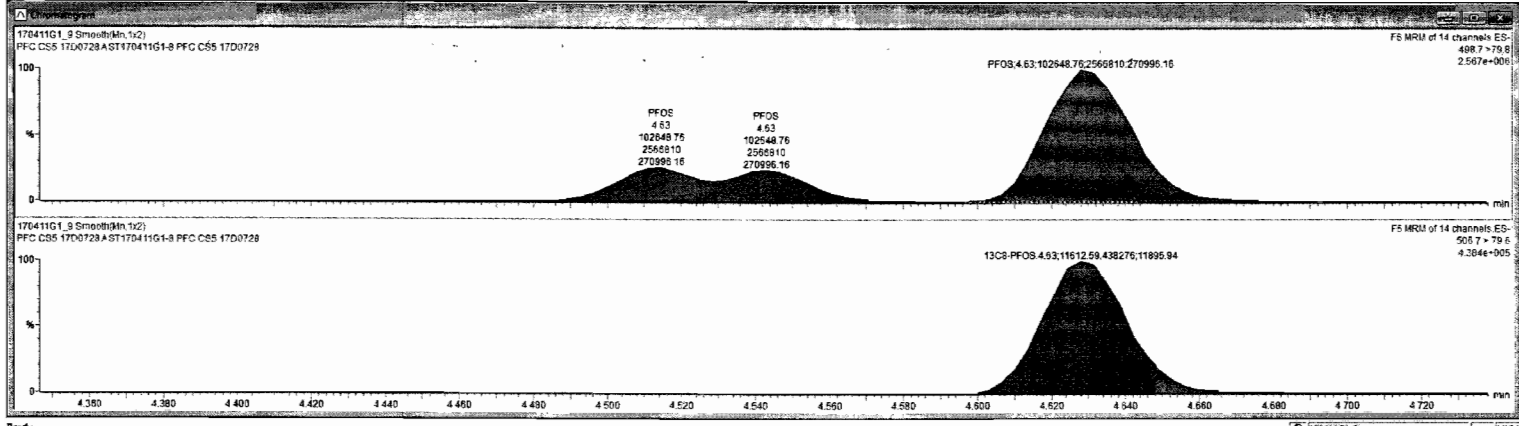


Target: 170411G1_9 - 51170411G1_9.PFC.CS5.1700728_19.C.CS5.1700728.A

File Edit View Display Processing Window Help

170411G1_9 - 51170411G1_9.PFC.CS5.1700728_19.C.CS5.1700728.A

Name	Comp	DL	%Rec	EWPC	Abl.Reso	RFI	RT	#	IS#	RA	YN	RFI	Acq.Date	Acq.Time	1 st Chr.Note	ID	Sample Test	Factor1	SM	Cal File	INCL
1 PFBA	98.839632	0.0323	98.8		1.578e5		1.73	1	14			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
2 PFPeA	97.650130	0.140	97.6		7.581e4		2.66	2	15			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
3 PFBS	96.717949	0.0588	99.7		1.332e5		2.92	3	16			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
4 PFHxA	99.388233		99.4		2.246e5		3.30	4	17			1.001	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
5 PFHxA	97.588053	0.0122	97.6		1.853e5		3.21	5	18			1.001	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
6 PFHxS	100.25782		100.3		1.233e5		3.93	6	19			1.001	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
7 8.2 FTS	100.00084	0.200	100.0		4.276e4		4.18	7	21			0.998	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
8 PFDA	99.181158		99.2		2.116e5		4.23	8	21			1.001	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
9 PFHpS	99.489146	0.293	99.2		3.730e4		4.31	9	21			1.021	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
10 PFOS	96.230626	0.0541	99.4		1.239e5		4.89	10	22			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
11 PFNA	99.202090	0.00992	99.2		1.883e5		4.57	11	23			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
12 PFDA	99.648913		99.6		1.112e5		6.06	12	24			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
13 8.2 FTS	97.772246	0.0388	97.6		2.836e4		4.84	13	25			0.995	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		YES	
14 13C3-PFBA	12.668888	0.06389	101.3		2.756e4	1.168	1.73	14	26			1.003	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
15 13C3-PFPeA	12.631208	0.00831	101.0		1.021e4	0.379	2.66	15	27			0.899	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
16 13C3-PFBS	12.214534	0.06828	97.7		1.895e4	0.728	2.92	16	27			0.888	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
17 13C3-PFNA	6.975942	0.01142	101.3		9.296e3	0.890	3.29	17	27			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
18 13C4-PFNA	11.542515	0.00245	99.8		1.251e4	0.361	3.81	18	28			0.960	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
19 18O2-PFHS	12.788105	0.00171	101.7		6.440e3	0.442	3.93	19	28			0.999	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
20 13C2-6.2 FTS	17.523900	0.00912	140.2		1.513e4	1.162	4.18	20	29			0.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
21 13C2-PFDA	12.036846	0.00645	98.3		2.895e4	3.233	4.22	21	29			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	
22 13C8-PFOS	14.141381	0.00377	113.1		1.161e4	1.277	4.83	22	30			1.000	11-Apr-17	13:12:32		51170411G_1.PFC.CS5.1700728_19.C.CS5.1700728.A	1.0	1.00		NO	



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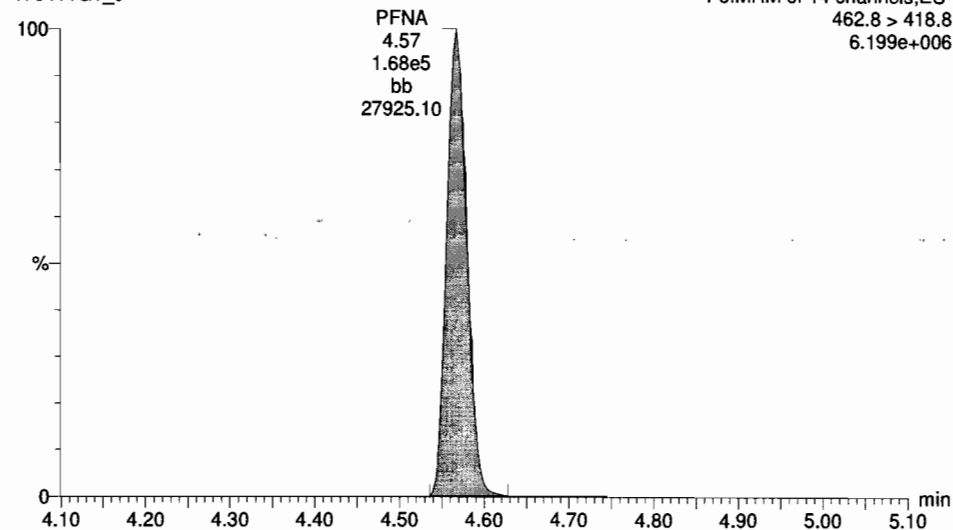
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-8 PFC CS5 17D0728, Description: PFC CS5 17D0728 A, Name: 170411G1_9, Date: 11-Apr-2017, Time: 13:12:32, Instrument: , Lab: , User:

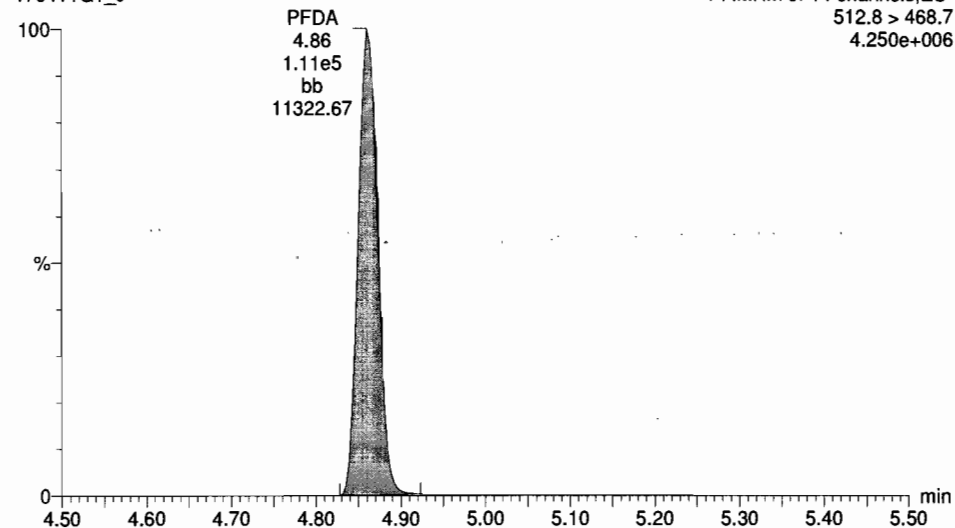
PFNA

170411G1_9



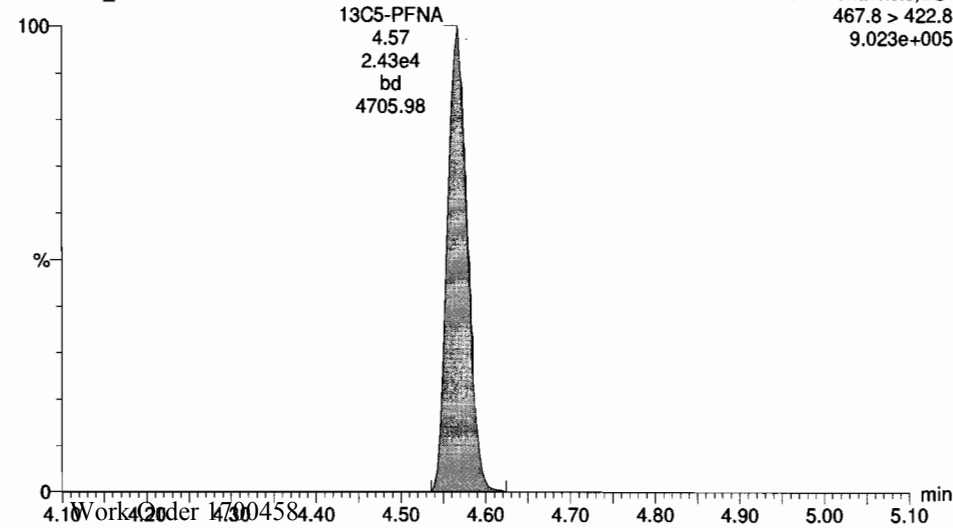
PFDA

170411G1_9



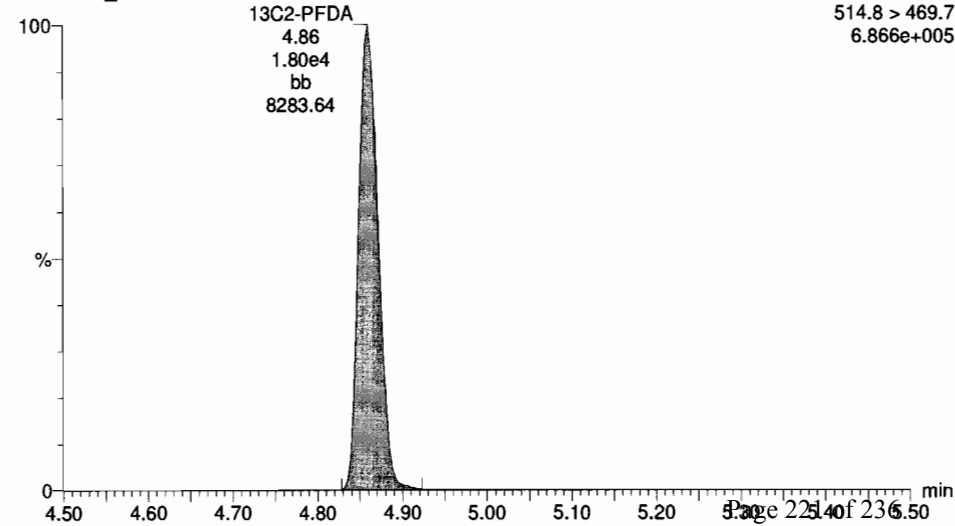
13C5-PFNA

170411G1_9



13C2-PFDA

170411G1_9



Dataset: Untitled

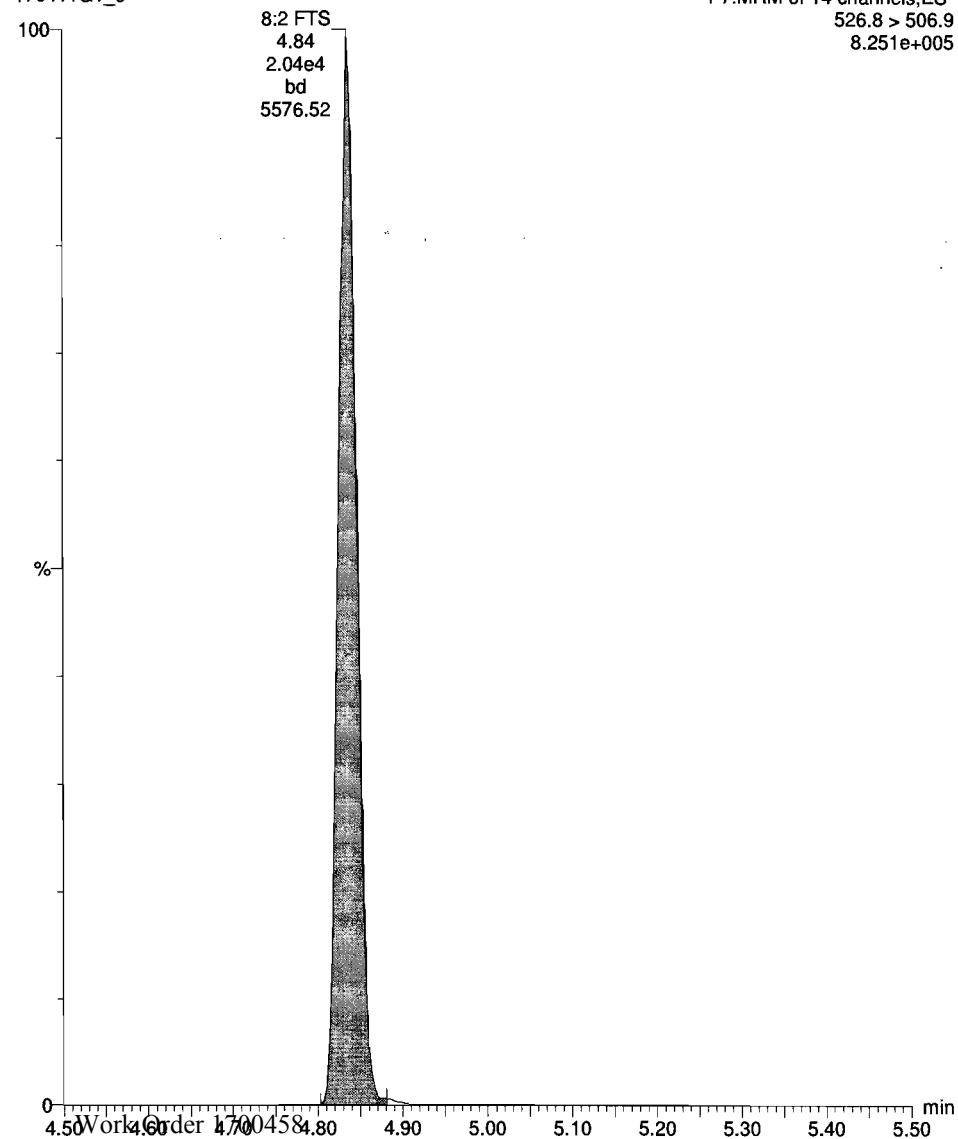
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-8 PFC CS5 17D0728, Description: PFC CS5 17D0728 A, Name: 170411G1_9, Date: 11-Apr-2017, Time: 13:12:32, Instrument: , Lab: , User:

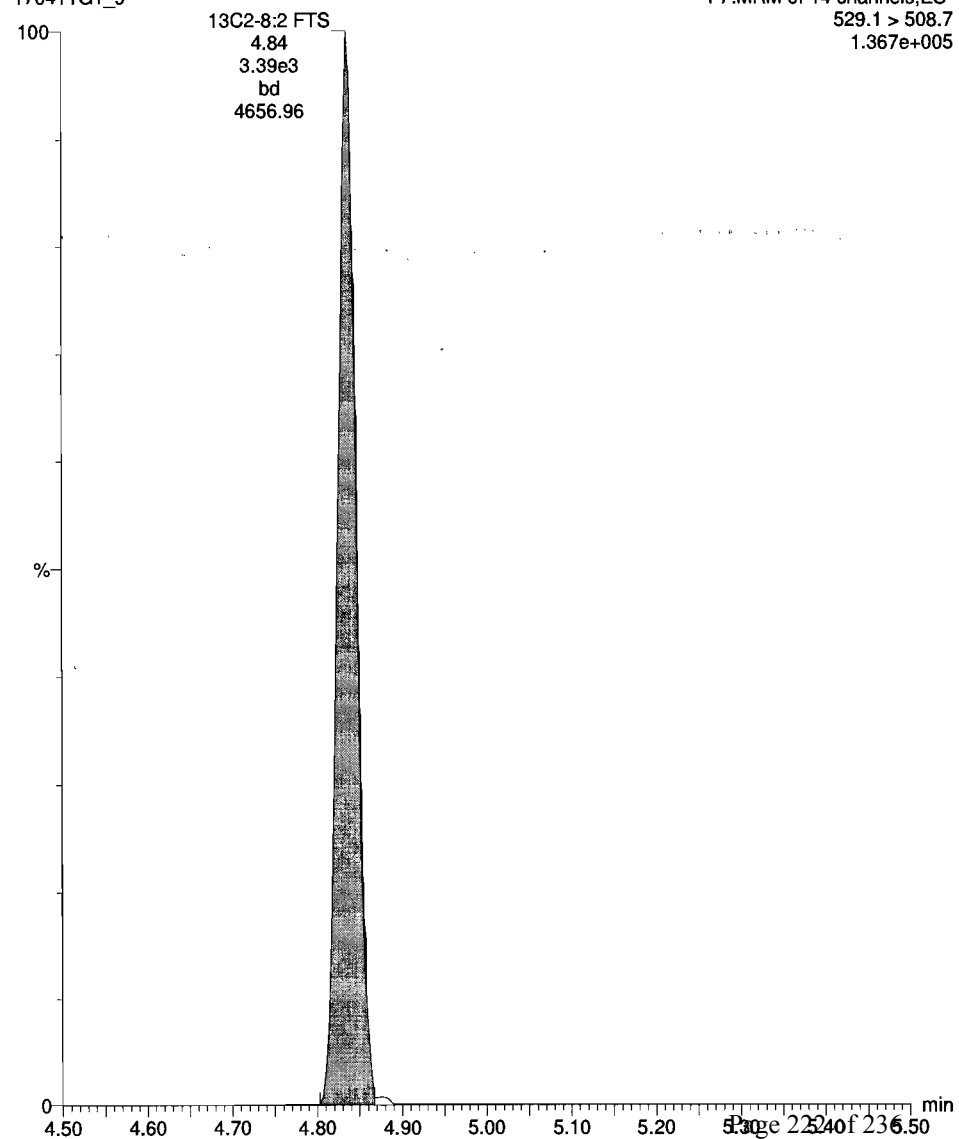
8:2 FTS

170411G1_9



13C2-8:2 FTS

170411G1_9



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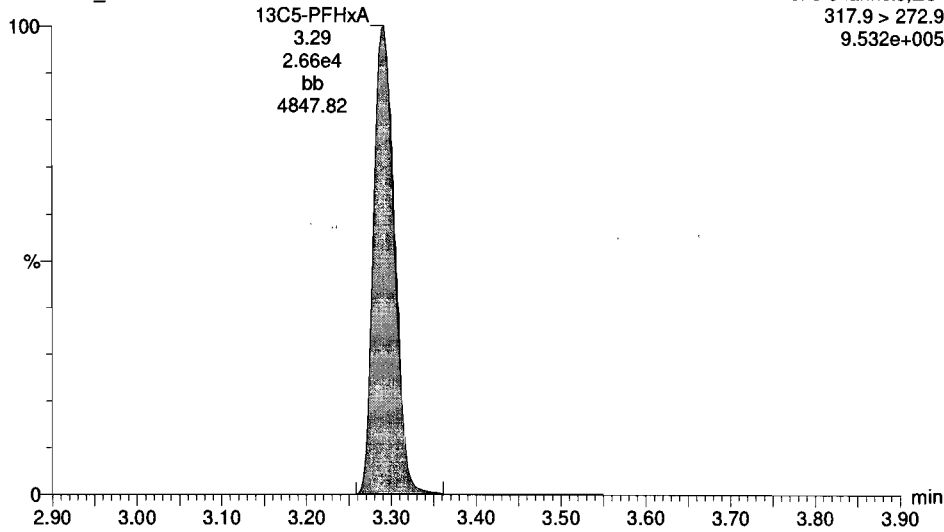
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Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-8 PFC CS5 17D0728, Description: PFC CS5 17D0728 A, Name: 170411G1_9, Date: 11-Apr-2017, Time: 13:12:32, Instrument: , Lab: , User:

13C5-PFHxA

170411G1_9

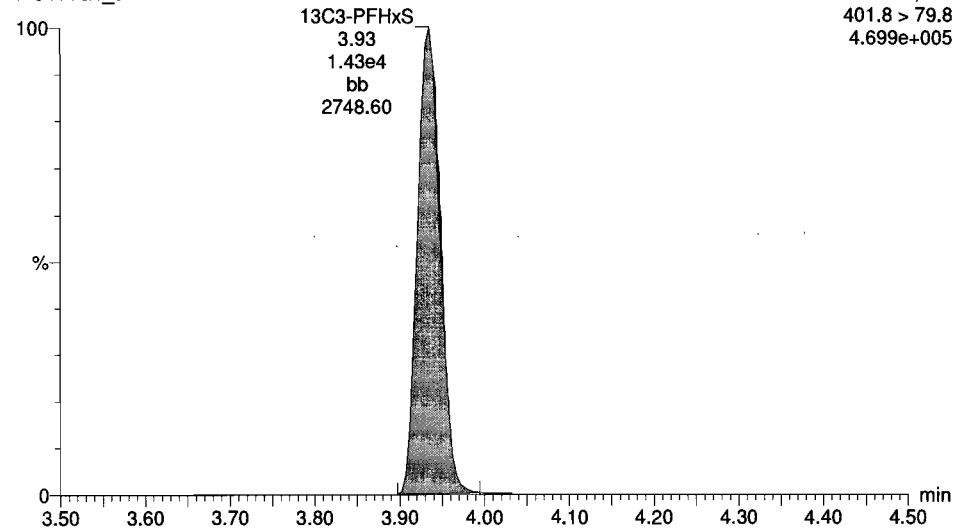
F4:MRM of 3 channels,ES-
317.9 > 272.9
9.532e+005



13C3-PFHxS

170411G1_9

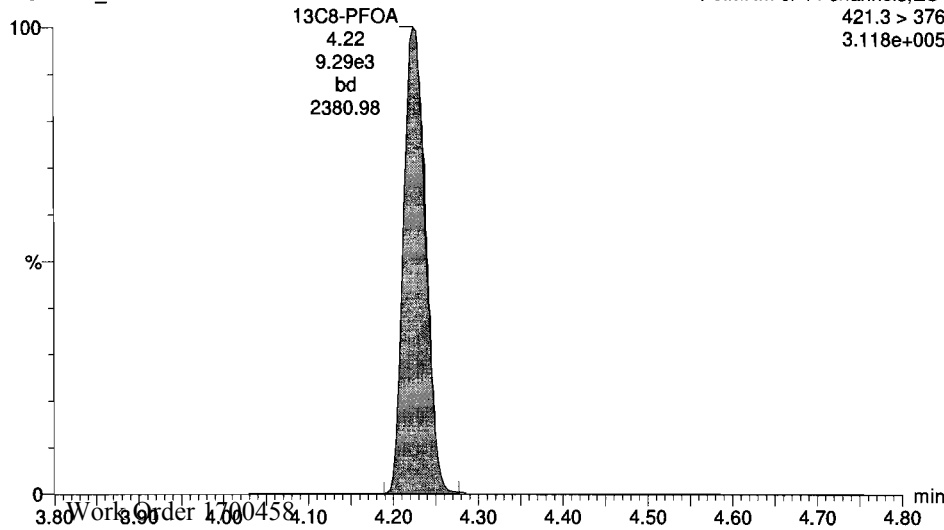
F5:MRM of 5 channels,ES-
401.8 > 79.8
4.699e+005



13C8-PFOA

170411G1_9

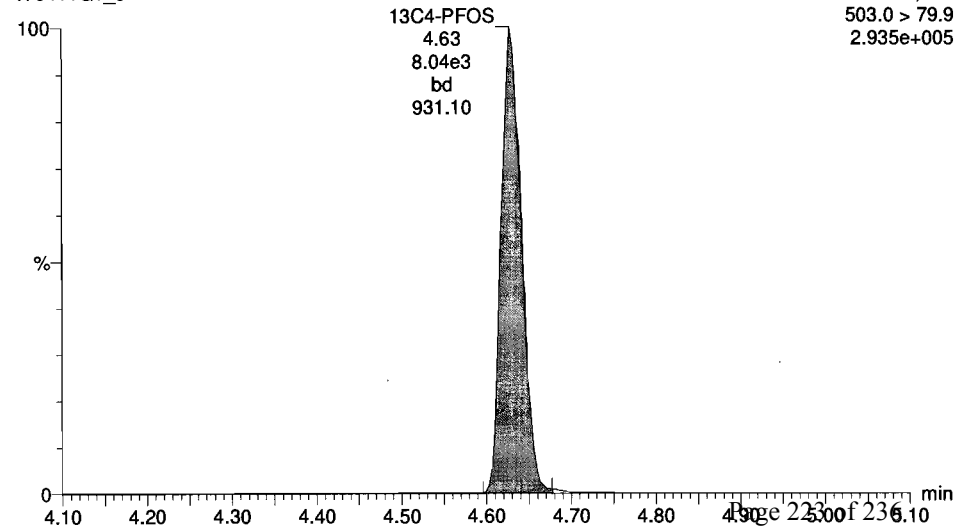
F6:MRM of 14 channels,ES-
421.3 > 376
3.118e+005



13C4-PFOS

170411G1_9

F6:MRM of 14 channels,ES-
503.0 > 79.9
2.935e+005



Dataset: Untitled

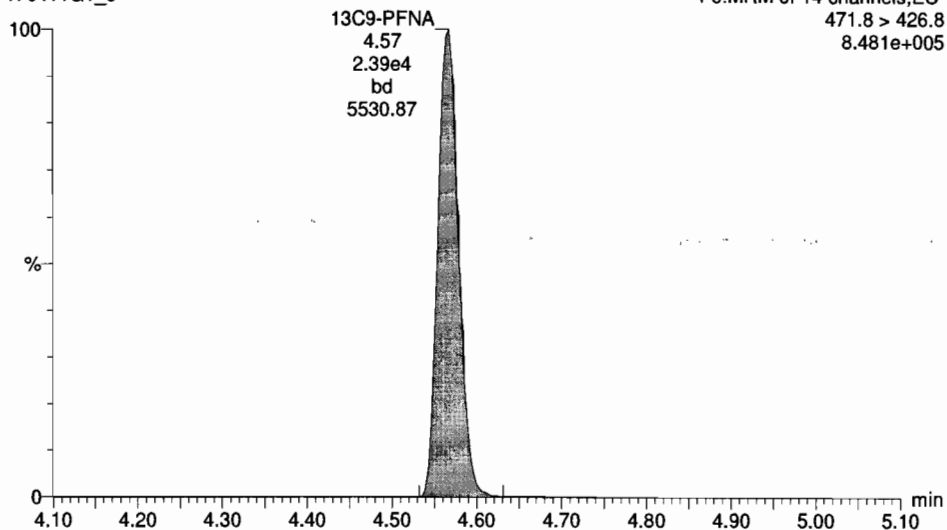
Last Altered: Wednesday, April 12, 2017 09:04:28 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:04:43 Pacific Daylight Time

ID: ST170411G1-8 PFC CS5 17D0728, Description: PFC CS5 17D0728 A, Name: 170411G1_9, Date: 11-Apr-2017, Time: 13:12:32, Instrument: , Lab: , User:

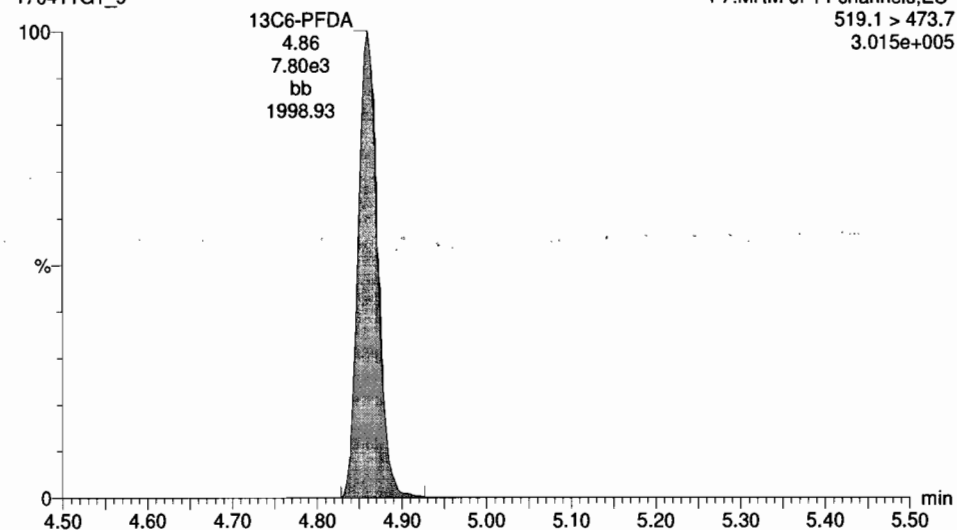
13C9-PFNA

170411G1_9



13C6-PFDA

170411G1_9



Dataset: U:\G1.PRO\Results\2017\170411G1\170411G1-11.qld

Last Altered: Wednesday, April 12, 2017 09:44:56 Pacific Daylight Time
Printed: Wednesday, April 12, 2017 09:45:34 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_A_Full_Lin170405.mdb 06 Apr 2017 11:35:09
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_04-11-17_Full_A_Lin.cdb 12 Apr 2017 08:39:11

Name: 170411G1_11, Date: 11-Apr-2017, Time: 13:37:49, ID: SS170411G1-1 PFC SSS 17D0729, Description: PFC CS1 17D0729 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	212.9 > 168.9	2.06e4	3.46e4		1.000	1.73	9.69	96.9
2	2 PFPeA	263.0 > 218.8	9.51e3	1.36e4		1.000	2.66	9.20	92.0
3	3 PFBS (A)	298.8 > 79.7	1.49e4	2.64e4		1.000	2.92	7.90	79.0 89.3
4	4 PFHxA	312.9 > 269.1	2.85e4	1.23e4		1.000	3.29	9.49	94.9
5	5 PFHpA	363 > 318.9	2.38e4	1.74e4		1.000	3.81	9.02	90.2
6	6 PFHxS (A)	398.8 > 79.8	1.30e4	7.68e3		1.000	3.93	8.82	88.2 96.7
7	7 6:2 FTS (A)	426.8 > 406.8	4.37e3	3.51e4		1.000	4.17	9.78	97.8 102.7
8	8 PFOA	412.8 > 369	2.50e4	3.51e4		1.000	4.22	9.54	95.4
9	9 PFHpS (A)	448.8 > 79.8	3.90e3	3.51e4		1.000	4.31	8.68	86.8 91.2
10	10 PFOS (A)	498.7 > 79.8	7.98e3	1.03e4		1.000	4.63	8.49	84.9 91.5
11	11 PFNA	462.8 > 418.8	1.69e4	2.62e4		1.000	4.56	9.24	92.4
12	12 PFDA	512.8 > 468.7	9.18e3	1.59e4		1.000	4.86	9.25	92.5
13	13 8:2 FTS (A)	526.8 > 506.9	1.96e3	2.57e3		1.000	4.83	7.35	73.5 76.6
14	14 13C3-PFBA	215.9 > 171.8	3.46e4	3.01e4	1.168	1.000	1.73	12.3	98.3
15	15 13C3-PFPeA	266 > 221.8	1.36e4	3.48e4	0.379	1.000	2.66	12.9	103.0
16	16 13C3-PFBS	301.8 > 79.7	2.64e4	3.48e4	0.728	1.000	2.92	13.0	104.3
17	17 13C2-PFHxA	315 > 269.8	1.23e4	3.48e4	0.860	1.000	3.29	5.13	102.6
18	18 13C4-PFHpA	367.2 > 321.8	1.74e4	1.76e4	0.961	1.000	3.81	12.9	102.8
19	19 18O2-PFHxS	403 > 102.6	7.68e3	1.76e4	0.442	1.000	3.93	12.4	98.8
20	20 13C2-6:2 FTS	428.8 > 408.8	1.15e4	1.14e4	1.162	1.000	4.17	10.9	87.0
21	21 13C2-PFOA	414.9 > 369.7	3.51e4	1.14e4	3.233	1.000	4.22	11.9	95.5
22	22 13C8-PFOS	506.7 > 79.6	1.03e4	7.98e3	1.277	1.000	4.63	12.6	101.2
23	23 13C5-PFNA	467.8 > 422.8	2.62e4	2.57e4	1.010	1.000	4.56	12.6	100.8
24	24 13C2-PFDA	514.8 > 469.7	1.59e4	6.76e3	2.247	1.000	4.86	13.1	104.6
25	25 13C2-8:2 FTS	529.1 > 508.7	2.57e3	6.76e3	0.335	1.000	4.84	14.2	113.6
26	26 13C4-PFBA	216.9 > 171.8	3.01e4	3.01e4	1.000	1.000	1.73	12.5	100.0
27	27 13C5-PFHxA	317.9 > 272.9	3.48e4	3.48e4	1.000	1.000	3.29	12.5	100.0
28	28 13C3-PFHxS	401.8 > 79.8	1.76e4	1.76e4	1.000	1.000	3.93	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.14e4	1.14e4	1.000	1.000	4.22	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	7.98e3	7.98e3	1.000	1.000	4.63	12.5	100.0
31	31 13C9-PFNA	471.8 > 426.8	2.57e4	2.57e4	1.000	1.000	4.56	12.5	100.0
32	32 13C6-PFDA	519.1 > 473.7	6.76e3	6.76e3	1.000	1.000	4.86	12.5	100.0

75-125
↓

ES 4/12/17

✓ AC
4/12/17

(A) Concentration <10ng/L in SS native mix.
ES 4/12/17

Dataset: Untitled

Last Altered: Wednesday, April 12, 2017 09:42:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:42:55 Pacific Daylight Time

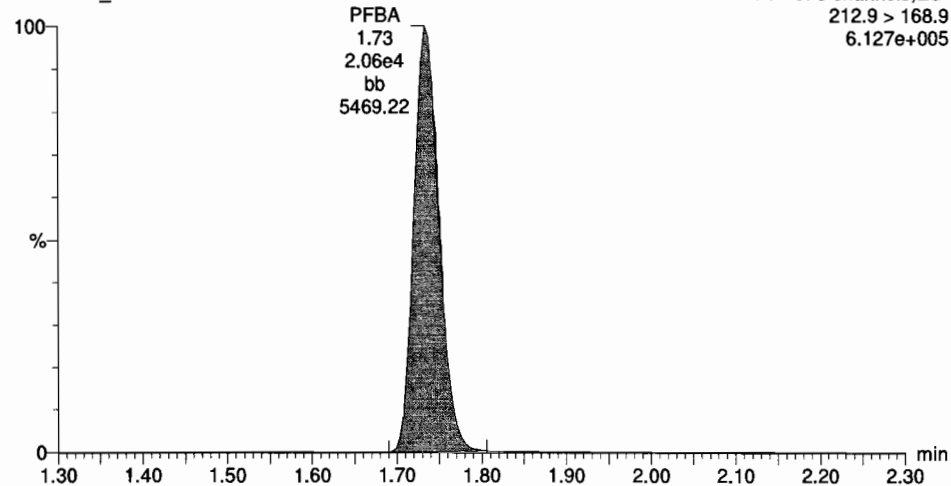
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ID: SS170411G1-1 PFC SSS 17D0729, Description: PFC CS1 17D0729 A, Name: 170411G1_11, Date: 11-Apr-2017, Time: 13:37:49, Instrument: , Lab: , User:

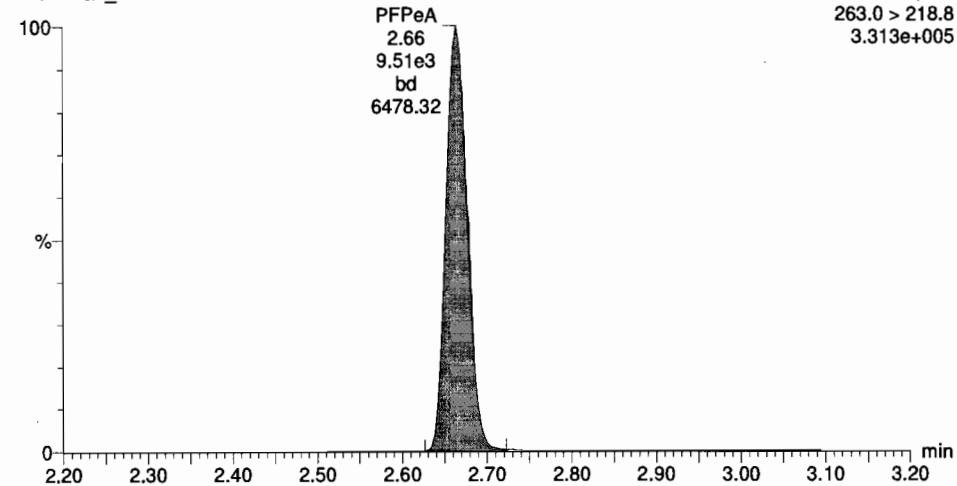
PFBA

170411G1_11



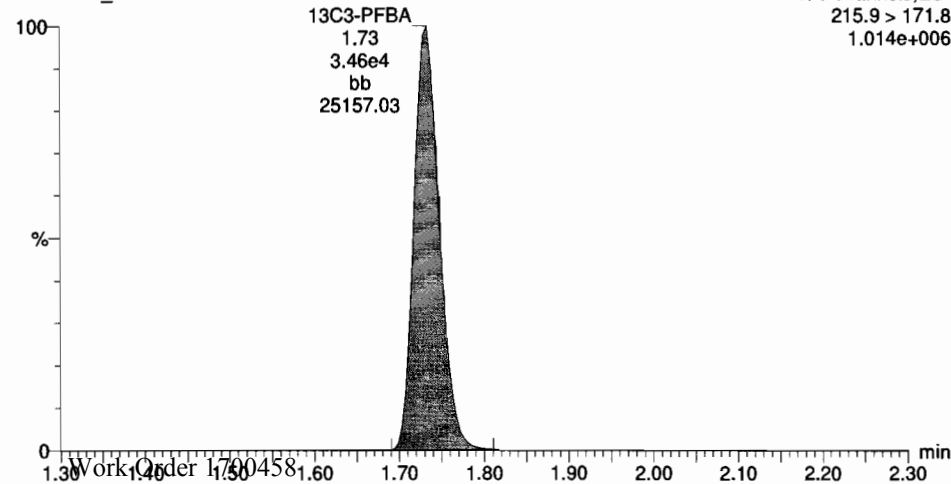
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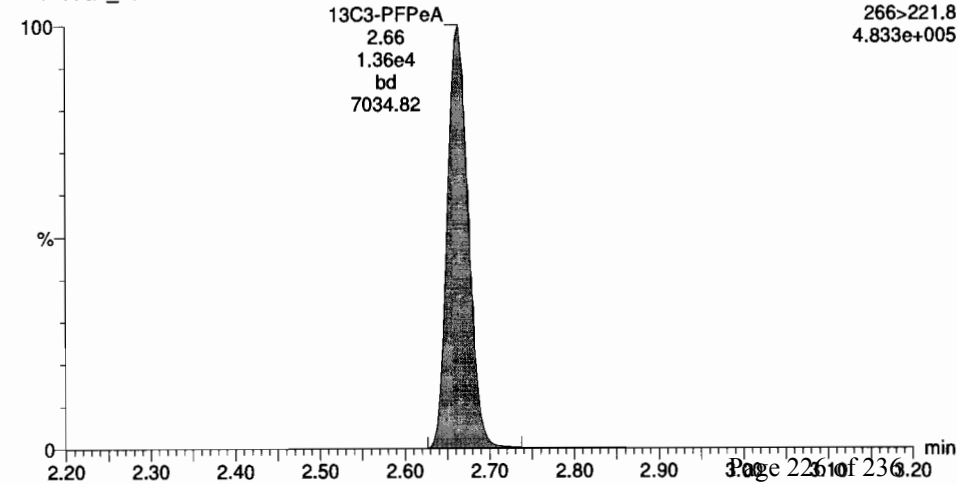
13C3-PFBA

170411G1_11



13C3-PFPeA

170411G1_11



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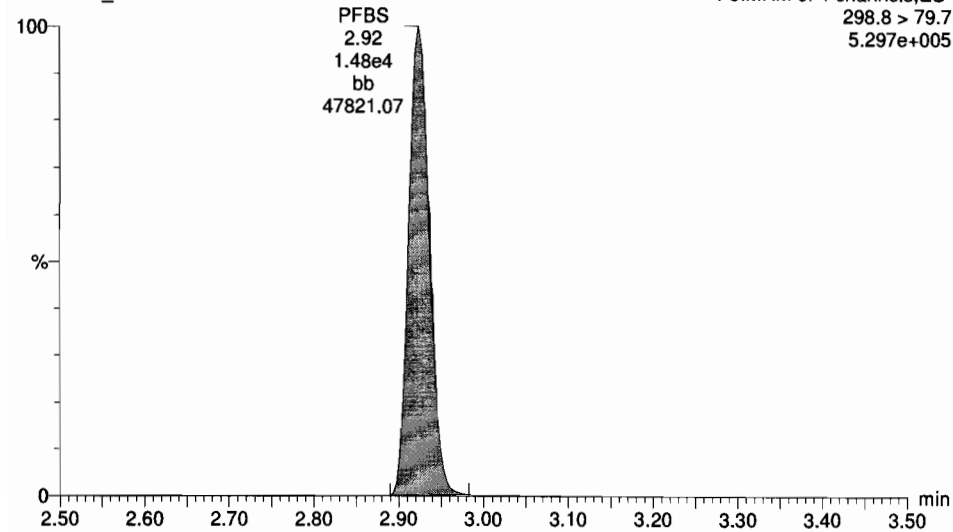
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ID: SS170411G1-1 PFC SSS 17D0729, Description: PFC CS1 17D0729 A, Name: 170411G1_11, Date: 11-Apr-2017, Time: 13:37:49, Instrument: , Lab: , User:

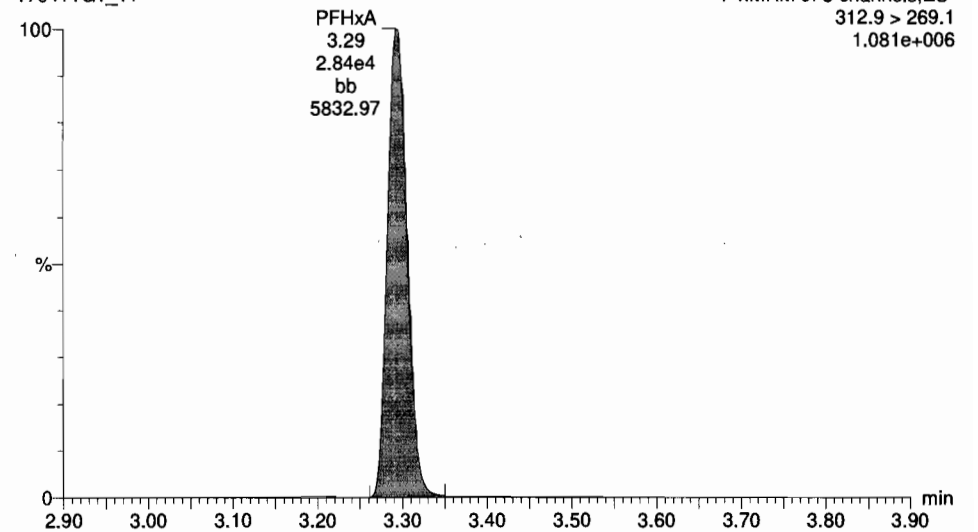
Total PFBS

170411G1_11



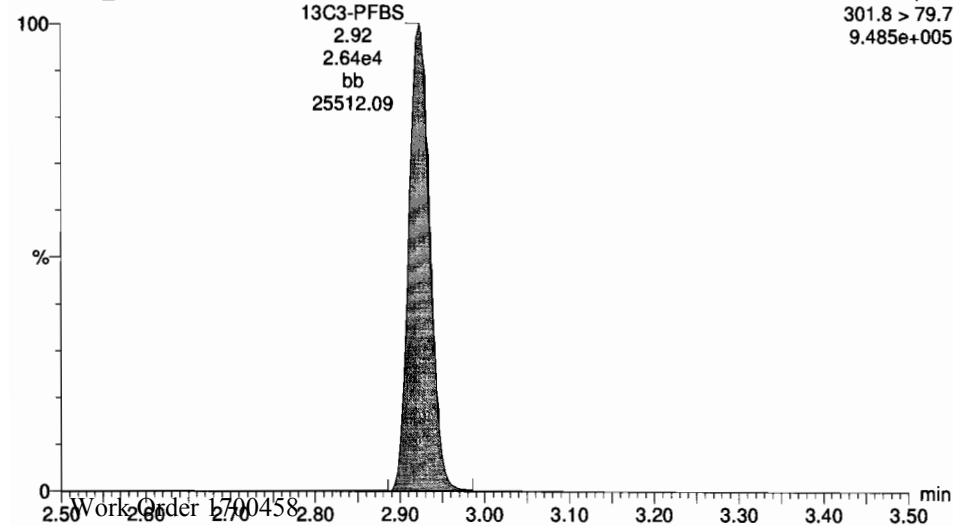
PFHxA

170411G1_11



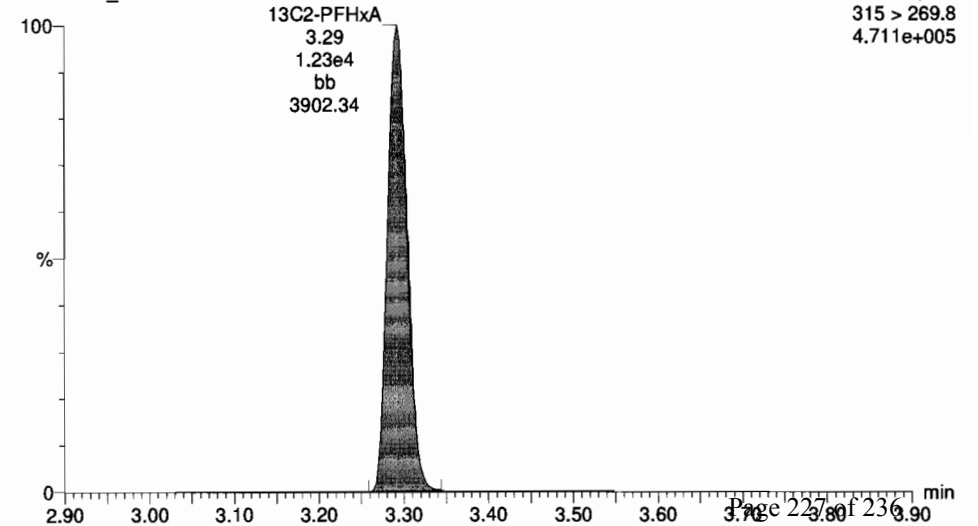
13C3-PFBS

170411G1_11



13C2-PFHxA

170411G1_11



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Last Altered: Wednesday, April 12, 2017 09:42:11 Pacific Daylight Time

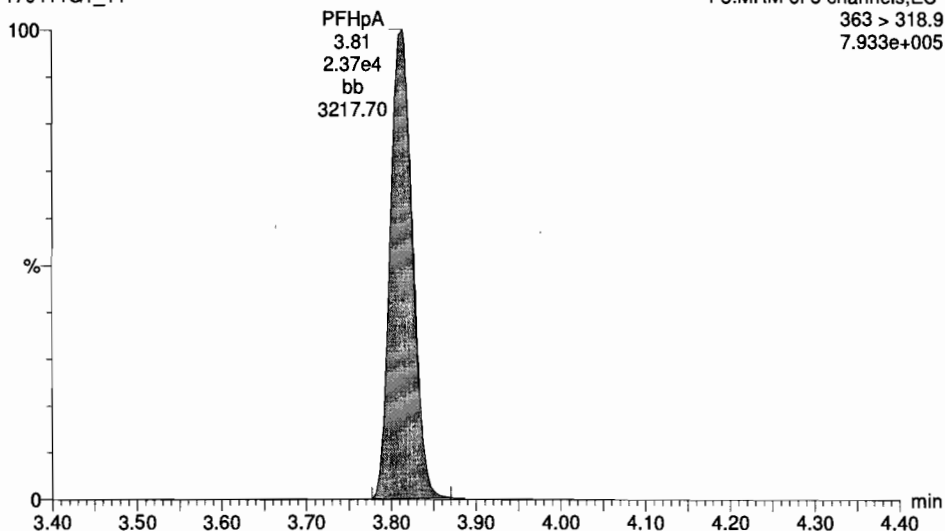
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PFHpA

170411G1_11

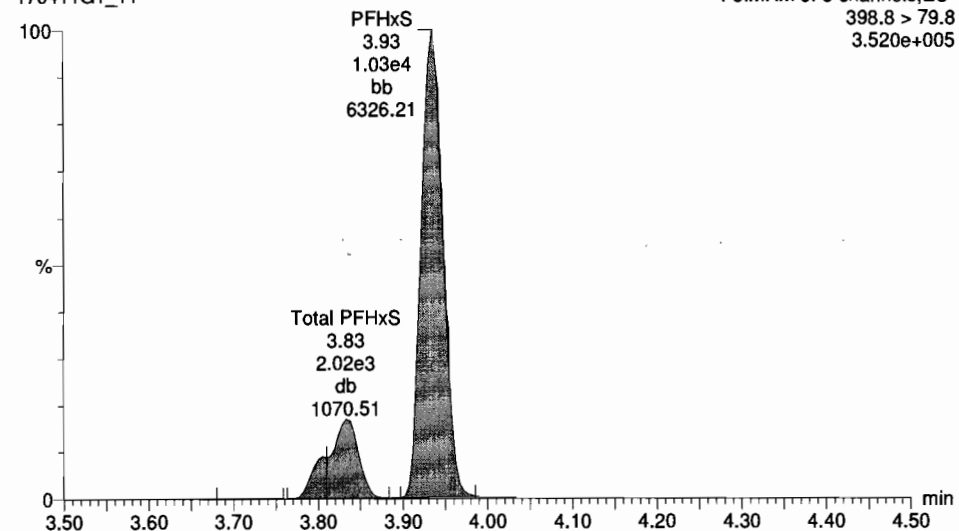
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363 > 318.9
7.933e+005



Total PFHxS

170411G1_11

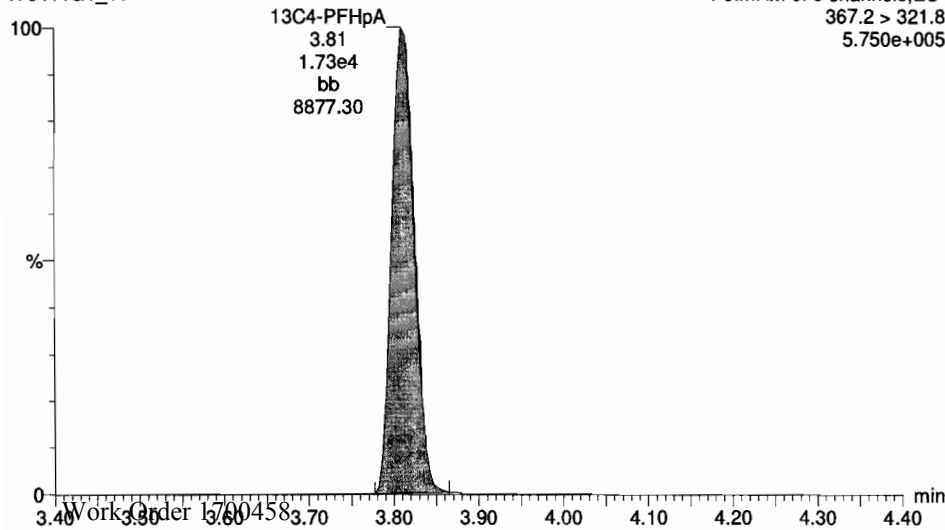
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398.8 > 79.8
3.520e+005



13C4-PFHpA

170411G1_11

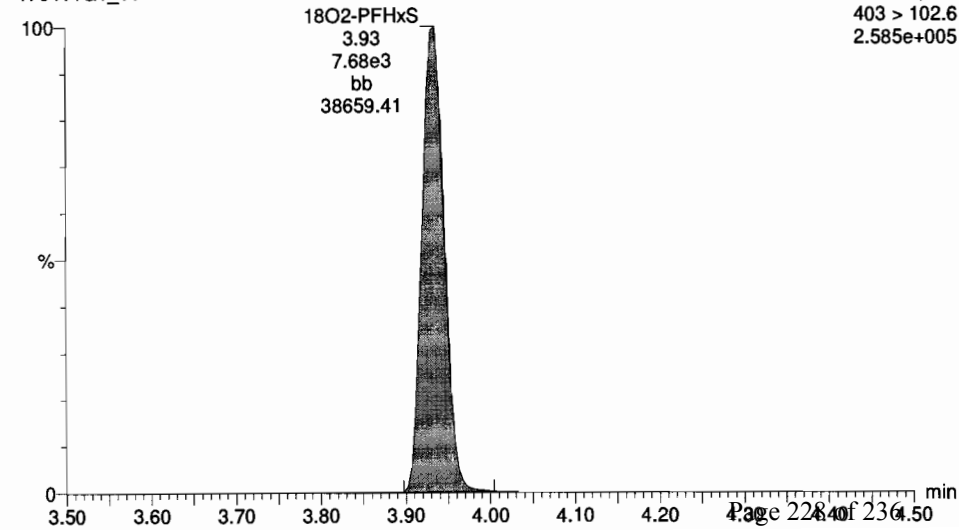
F5:MRM of 5 channels,ES-
367.2 > 321.8
5.750e+005



18O2-PFHxS

170411G1_11

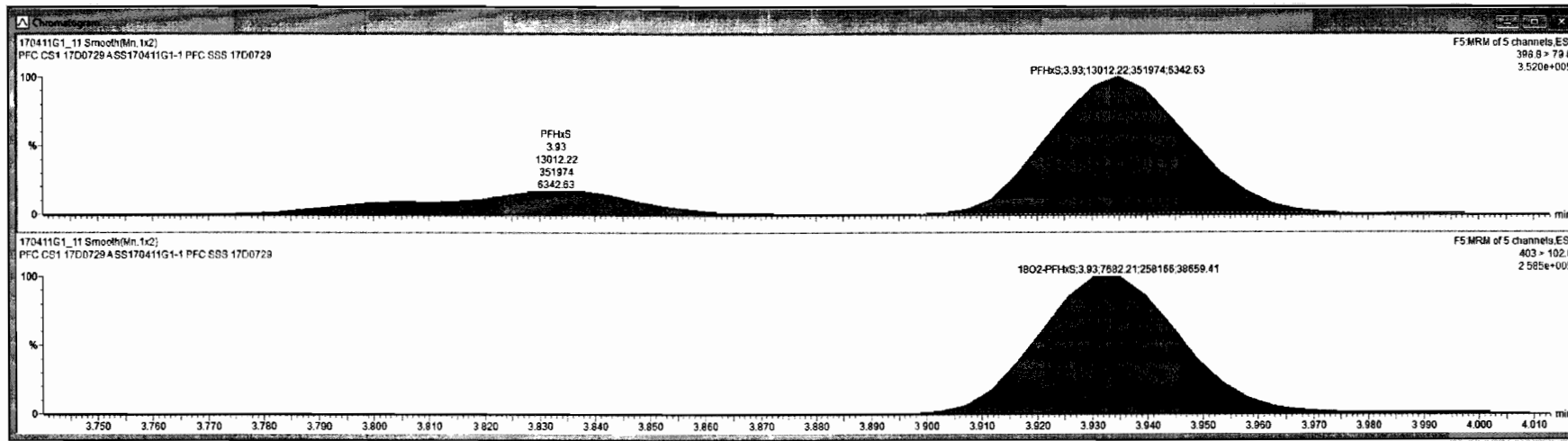
F5:MRM of 5 channels,ES-
403 > 102.6
2.585e+005





170411G1_11-SS170411G1-1 PFC SSS 17D0729 - PFC CS 17D0729 A

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	R/R	RT	#	RA	Y/N	R/D	Acq.Date	Acq.Time	% Chr.Noise	ID	Sample Test	Factor1	SN	Col File	MSD
1	PFBA	9.690202	0.0182	95.9	2.059e4	1.73	1	14			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
2	PFNA	9.2038305	0.0199	92.0	9.595e3	2.66	2	15			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
3	PFBS	7.8489102	0.0160	78.5	1.476e4	2.92	3	16			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
4	PFHA	9.4545243	0.0200	94.5	2.835e4	3.29	4	17			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
5	PFHpA	9.0401536	0.00311	90.4	2.366e4	3.81	5	18			1.001	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
6	PFHxS	9.171722	0.0022	77.2	1.351e4	3.39	6	19			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
7	6,2 FTS	9.7892598	0.132	97.8	4.396e3	4.17	7	21			0.988	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
8	PFDA	9.5398129	0.0090	95.4	2.498e4	4.22	8	21			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
9	PFHpS	8.6842853	0.171	86.8	3.909e3	4.31	9	21			1.021	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
10	PFOS	8.4925630	0.0577	84.9	7.989e3	4.63	10	22			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
11	PFNA	9.2364384	0.0000	92.4	1.695e4	4.56	11	23			1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
12	PFDA	9.2503156	0.0000	92.5	8.185e3	4.86	12	24			0.989	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
13	6,2 FTS	7.3484802	0.0174	73.5	1.956e3	4.83	13	25			0.994	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	YES
14	13C1-PFBA	12.292920	0.00122	98.3	3.455e4	1.668	1.73	14	26		1.002	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
15	13C1-PFNa	12.874843	0.00427	103.0	1.360e4	0.379	2.66	15	27		0.810	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
16	13C1-PFBS	13.038000	0.00121	104.3	2.641e4	0.728	2.92	16	27		0.889	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
17	13C1-PFHxA	5.1278340	0.00331	102.6	1.227e4	0.860	3.29	17	27		1.001	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
18	13C1-PFHxS	12.755706	0.00350	102.0	1.728e4	0.961	3.81	18	28		0.968	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
19	18O2-PFHxS	12.355696	0.009767	96.8	7.682e3	0.442	3.93	19	28		1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
20	13C2-6,2 FTS	10.871006	0.00137	87.0	1.149e4	1.162	4.17	20	29		0.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
21	13C2-PFDA	11.538929	0.0141	95.5	3.512e4	3.233	4.22	21	29		1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO
22	13C2-PFOS	12.646492	0.00282	101.2	1.051e4	1.277	4.63	22	30		1.000	11-Apr-17	13:37:49		SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V...	NO



Ready [170411G1_11] NUM

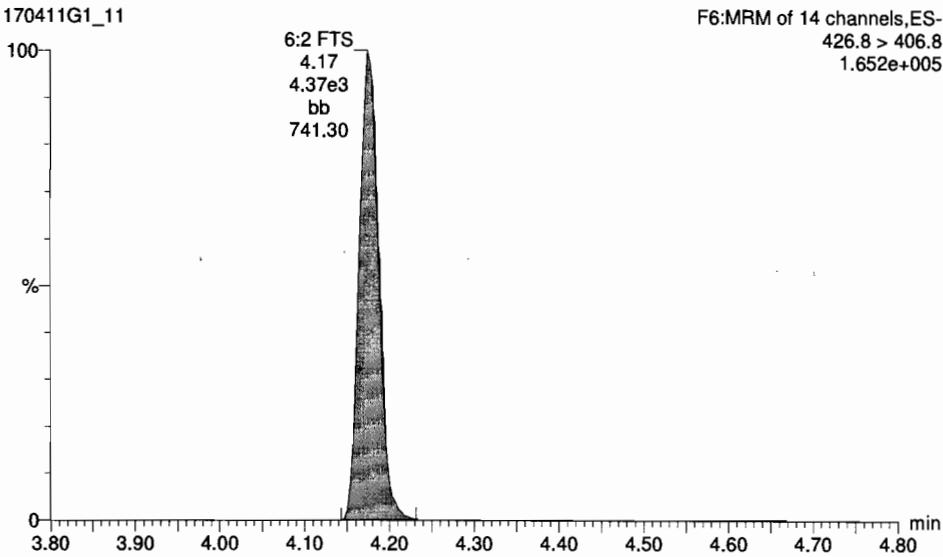
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Printed: Wednesday, April 12, 2017 09:42:55 Pacific Daylight Time

ID: SS170411G1-1 PFC SSS 17D0729, Description: PFC CS1 17D0729 A, Name: 170411G1_11, Date: 11-Apr-2017, Time: 13:37:49, Instrument: , Lab: , User:

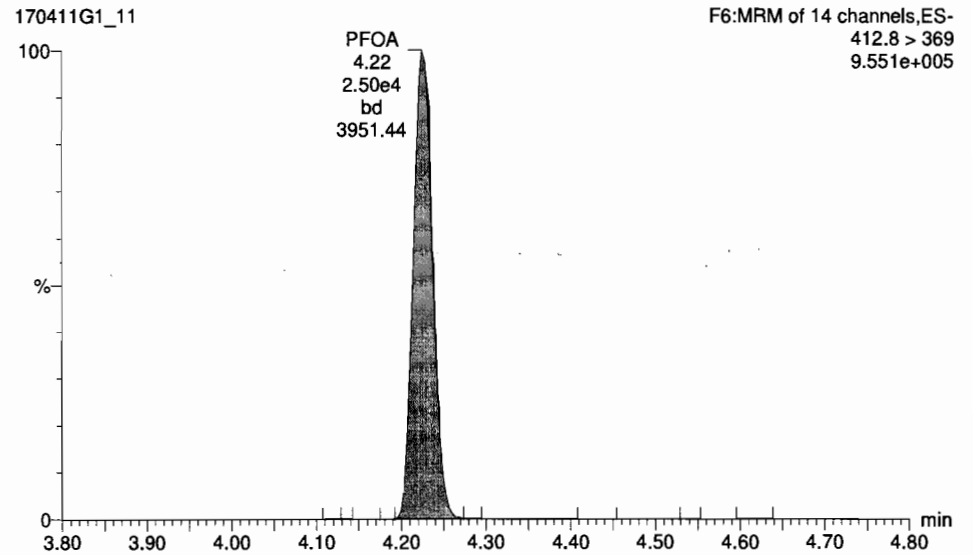
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170411G1_11



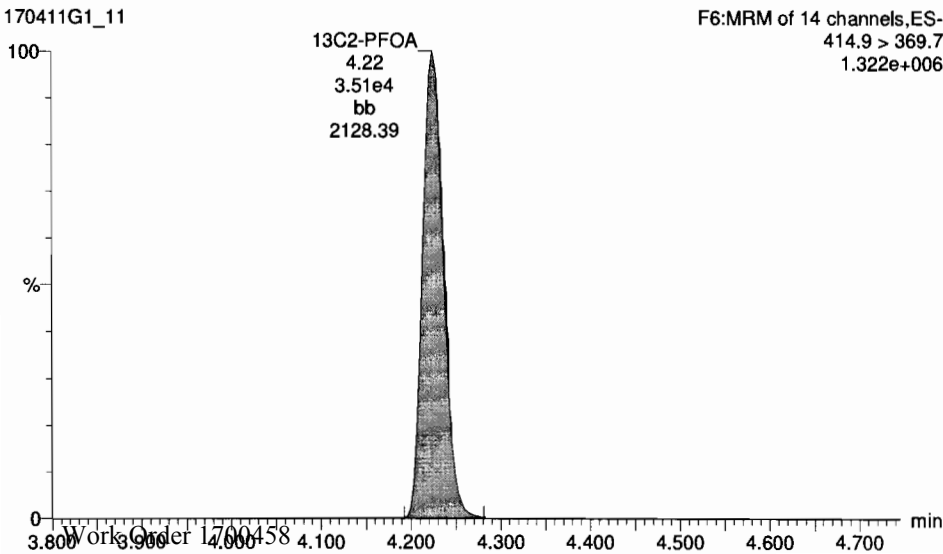
Total PFOA

170411G1_11



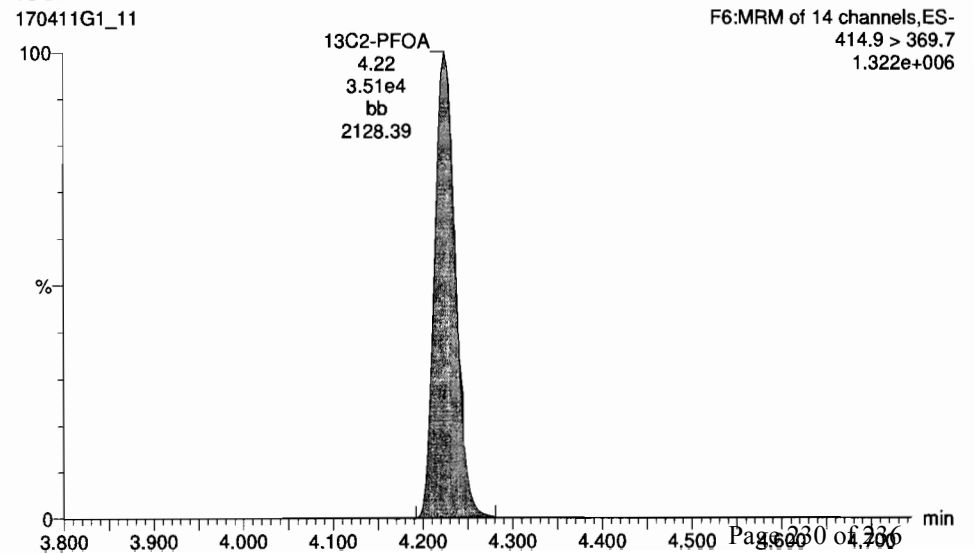
13C2-PFOA

170411G1_11



13C2-PFOA

170411G1_11



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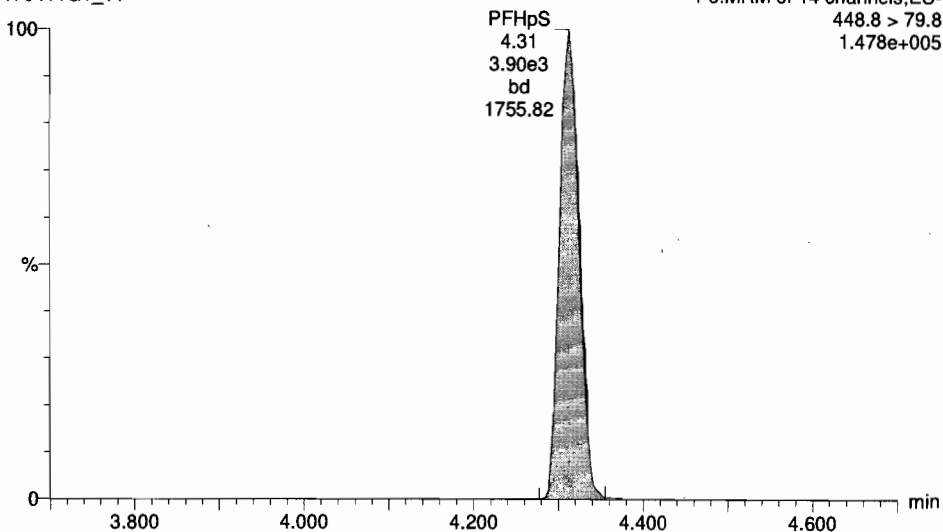
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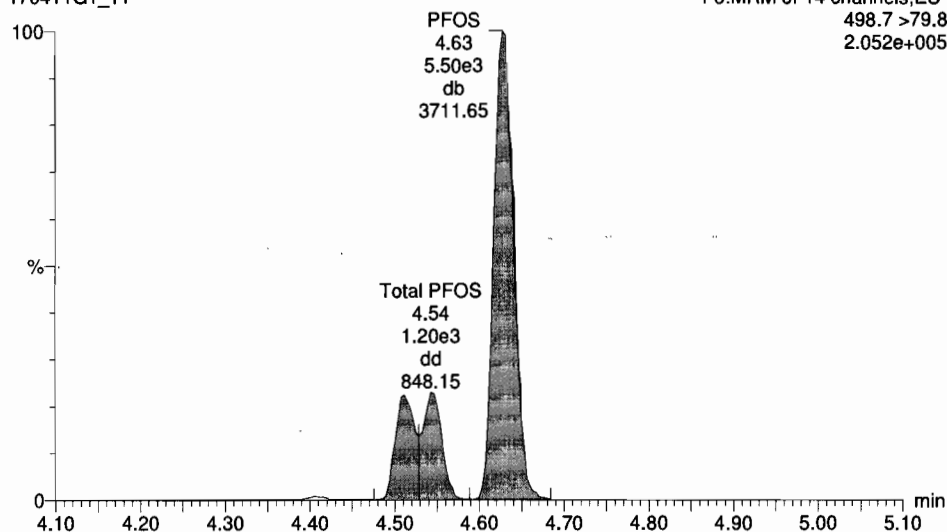
PFHpS

170411G1_11



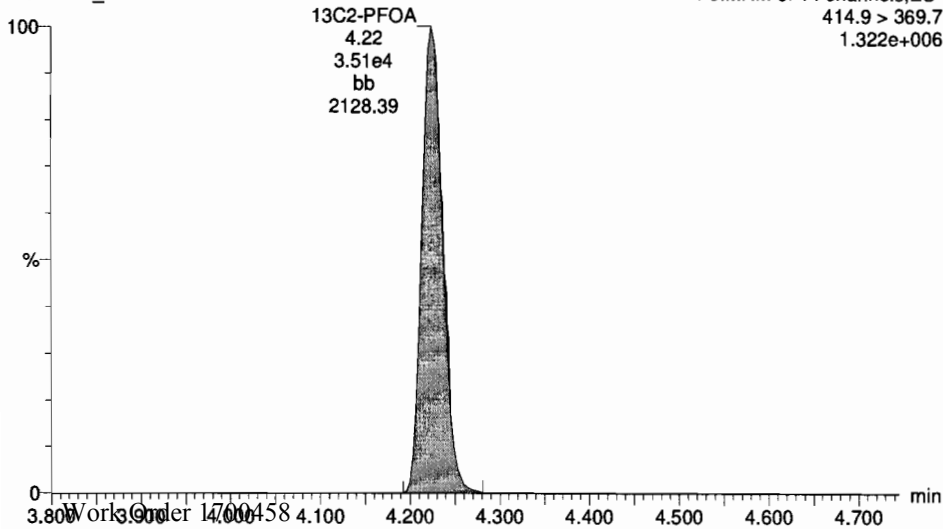
Total PFOS

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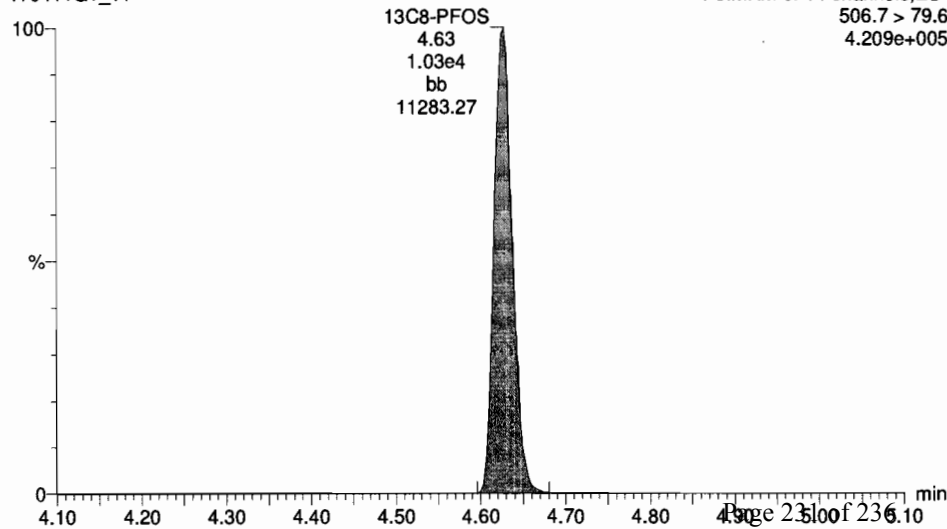
13C2-PFOA

170411G1_11

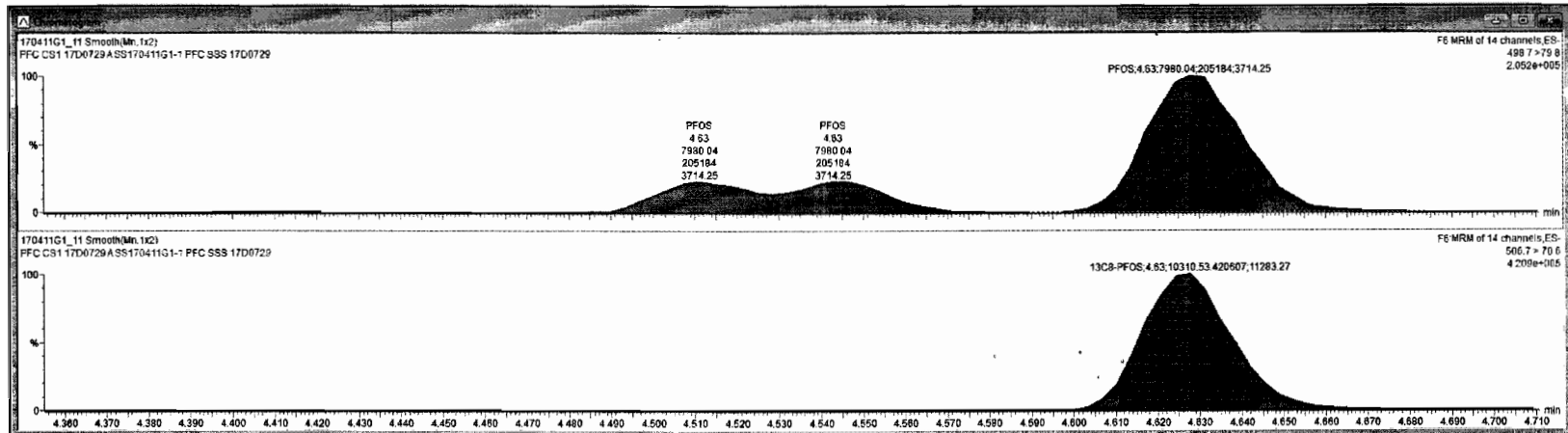


13C8-PFOS

170411G1_11



ID	Name	Conc	DL	RefCon	EMPC	AbsRsp	RRF	RT	#	RA	YIN	RRT	AcqDate	AcqTime	IP	ChrNotes	ID	Sample Text	Factor1	SN	Col/Flt	WCL
1	PFBA	8.690232	0.0122	98.9	2.0594	1.73	11	14			1.00	11-Apr-17	13:37:49				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
2	PFBA	9.2038505	0.0199	92.9	9.59543	2.86	2	15			1.00	11-Apr-17	13:37:49				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
3	PFBS	1.8489102	0.0100	78.5	1.4764	2.92	3	16			1.00	11-Apr-17	13:37:49				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
4	PFBA	9.4548243	0.0000	94.5	2.8354	3.29	4	17			1.00	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
5	PFBA	9.6401536	0.00311	90.4	2.3684	3.81	5	18			1.00	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
6	PFBS	8.8194448	0.0000	86.2	1.3014	3.93	6	19			1.00	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
7	6.2 FTS	9.7802598	0.132	97.8	4.3863	4.17	7	21			0.988	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
8	PFDA	9.5368120	0.0000	95.4	2.4984	4.22	8	21			1.00	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
9	PFBS	8.6842853	0.171	86.8	3.9003	4.31	9	21			1.021	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
10	PFBS	8.3093304	0.957	84.9	3.3803	4.83	10	22			1.880	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
11	PFBA	9.2364384	0.0000	92.4	1.6864	4.56	11	23			1.00	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
12	PFDA	9.2503196	0.0000	92.5	9.18543	4.86	12	24			0.999	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
13	6.2 FTS	7.3484802	0.0174	73.5	1.9563	4.83	13	25			0.994	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	YES
14	13C1-PFBA	12.282820	0.00122	98.3	3.4554	1.168	1.73	14	26		1.002	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
15	13C1-PFBA	12.874943	0.00427	103.0	1.3894	0.379	2.96	15	27		0.610	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
16	13C1-PFBS	13.038900	0.00121	104.3	2.6414	0.728	2.92	16	27		0.889	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
17	13C1-PFBA	5.1278340	0.00331	102.6	1.2274	0.880	3.29	17	27		1.001	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
18	13C1-PFBA	12.75709	0.00350	102.0	1.7284	0.961	3.81	18	28		0.965	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
19	1802-PFBS	12.355896	0.000787	98.8	7.6823	0.442	3.93	19	28		1.000	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
20	13C1-6.2 FTS	10.871008	0.00137	87.0	1.1484	1.162	4.17	20	29		0.800	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
21	13C1-PFBA	11.938929	0.0141	95.5	3.5124	3.233	4.22	21	29		1.000	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO
22	13C8-PFOS	12.648492	0.00282	101.2	1.0314	1.277	4.83	22	30		1.000	11-Apr-17	13:37:48				SS170411G...	PFC CS1 17D07...	1.0	1.00	C18_V	NO



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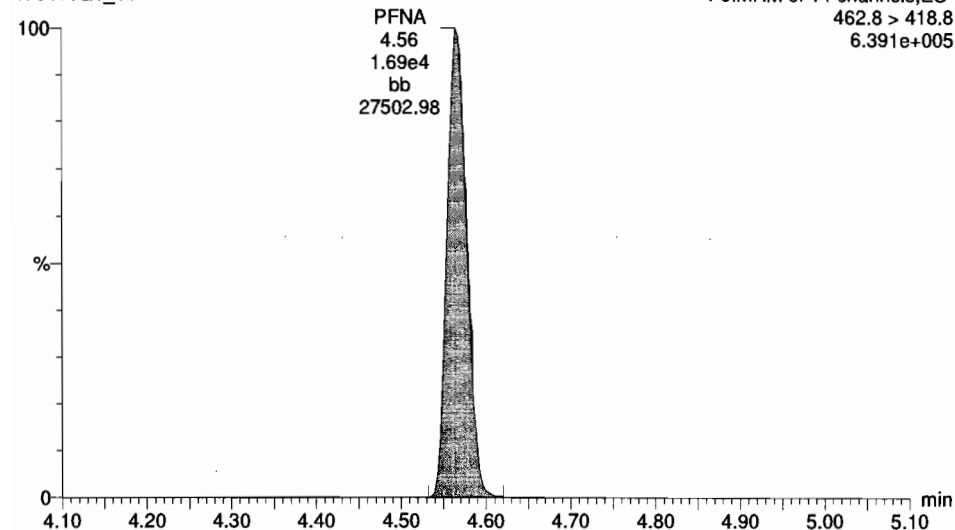
Last Altered: Wednesday, April 12, 2017 09:42:11 Pacific Daylight Time

Printed: Wednesday, April 12, 2017 09:42:55 Pacific Daylight Time

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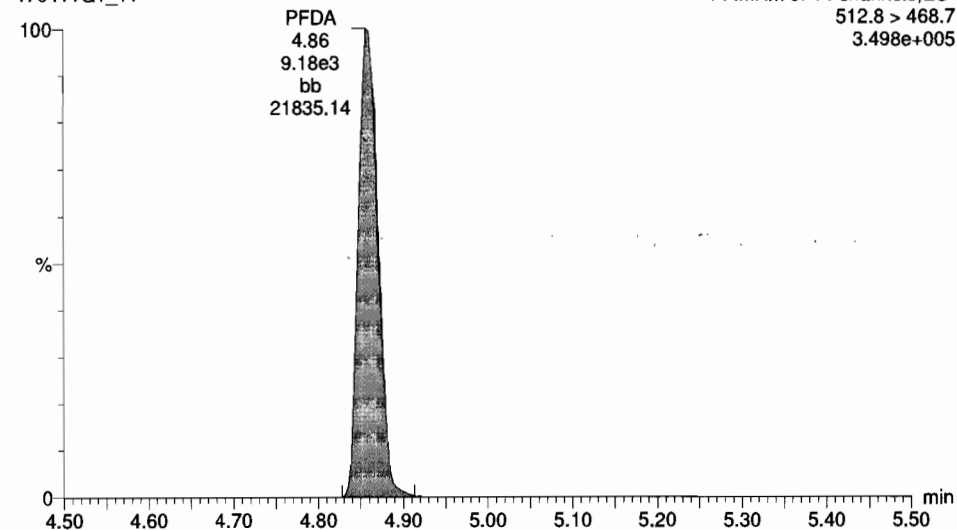
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170411G1_11



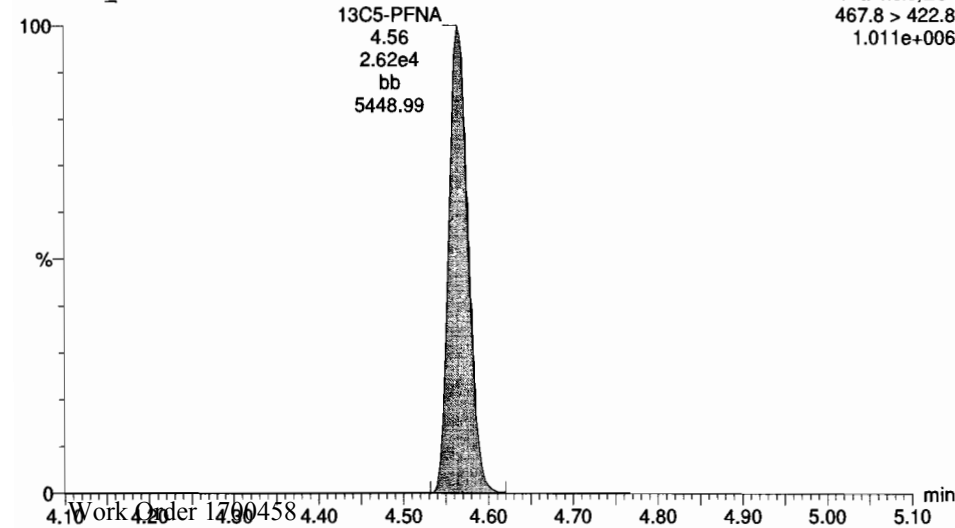
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170411G1_11



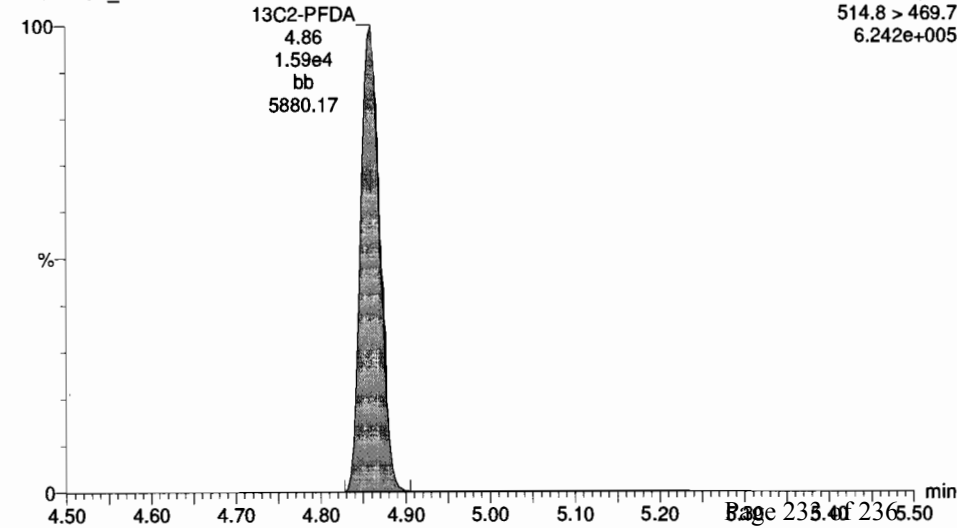
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170411G1_11



13C2-PFDA

170411G1_11



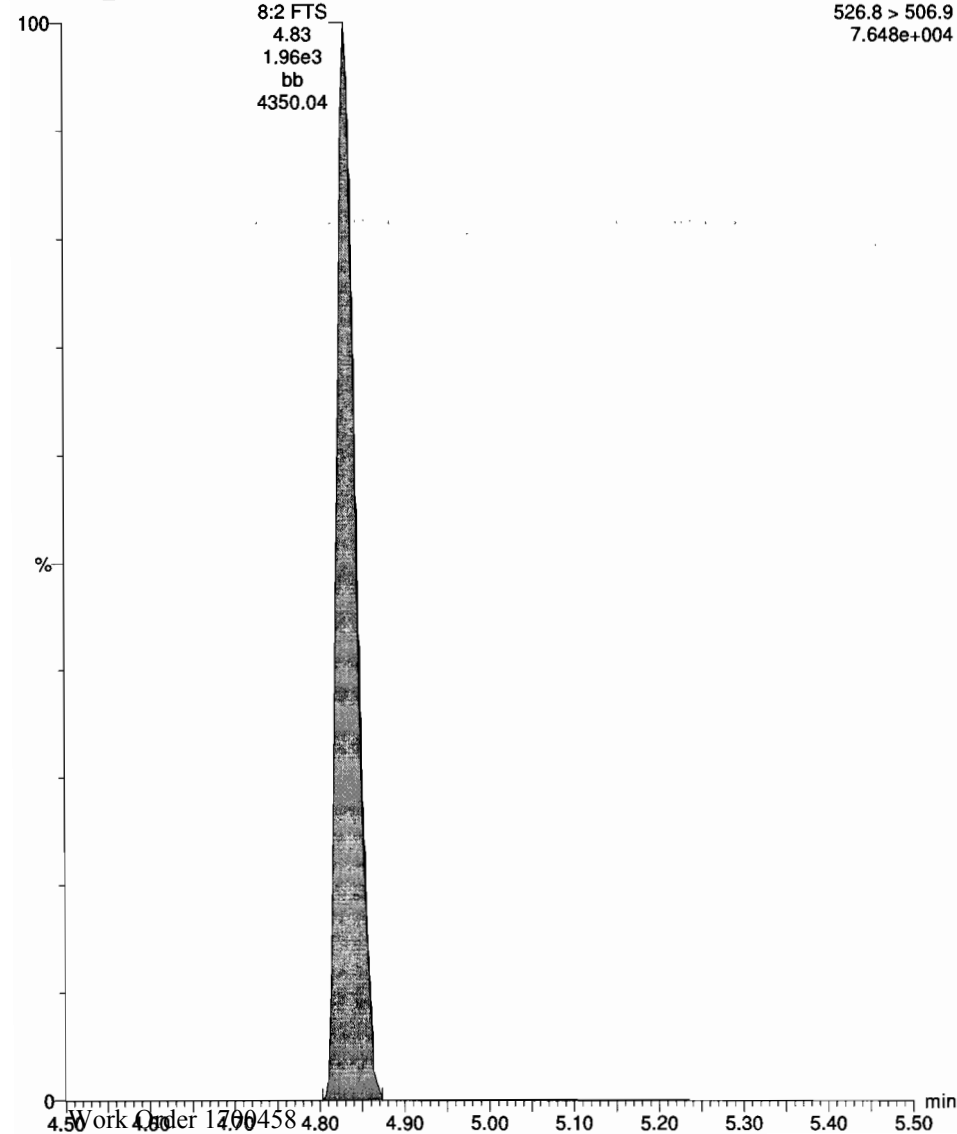
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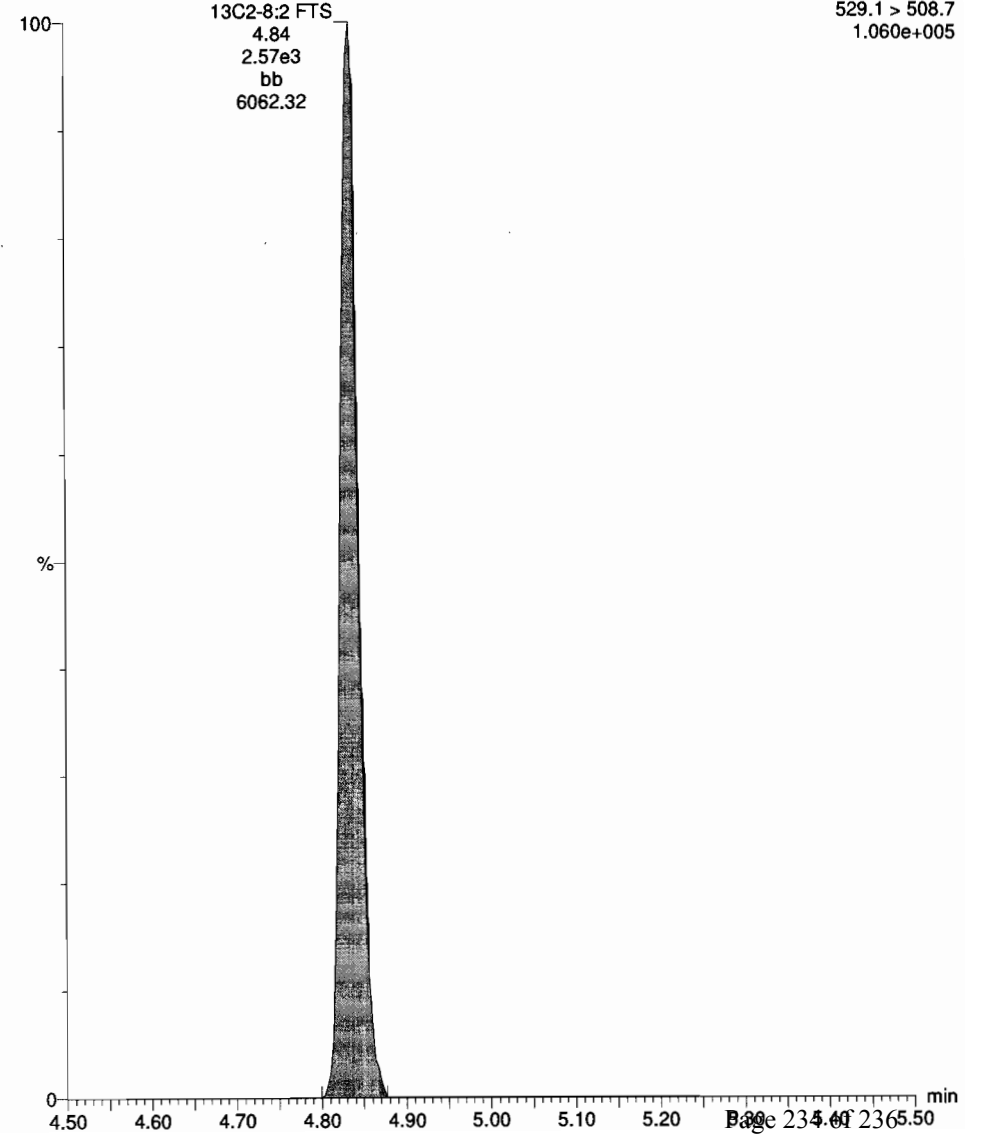
8:2 FTS

170411G1_11



13C2-8:2 FTS

170411G1_11



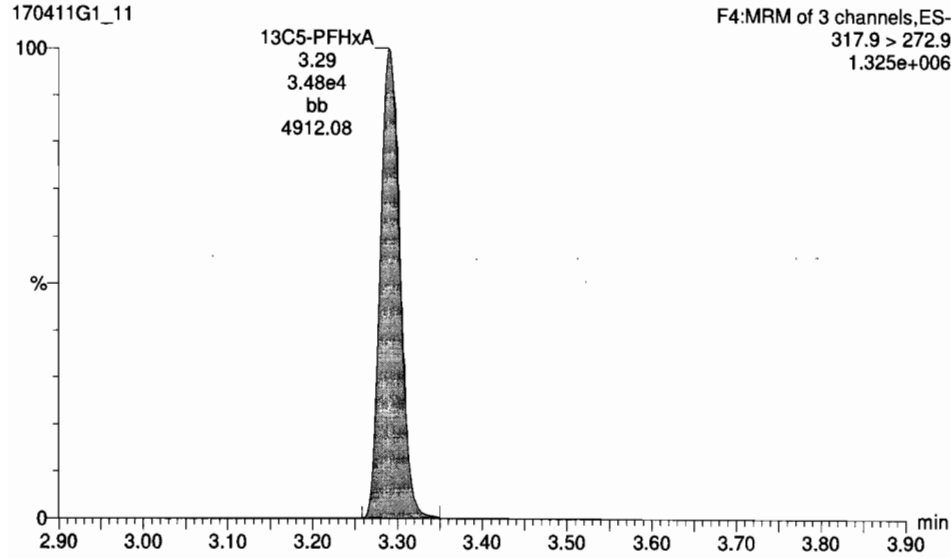
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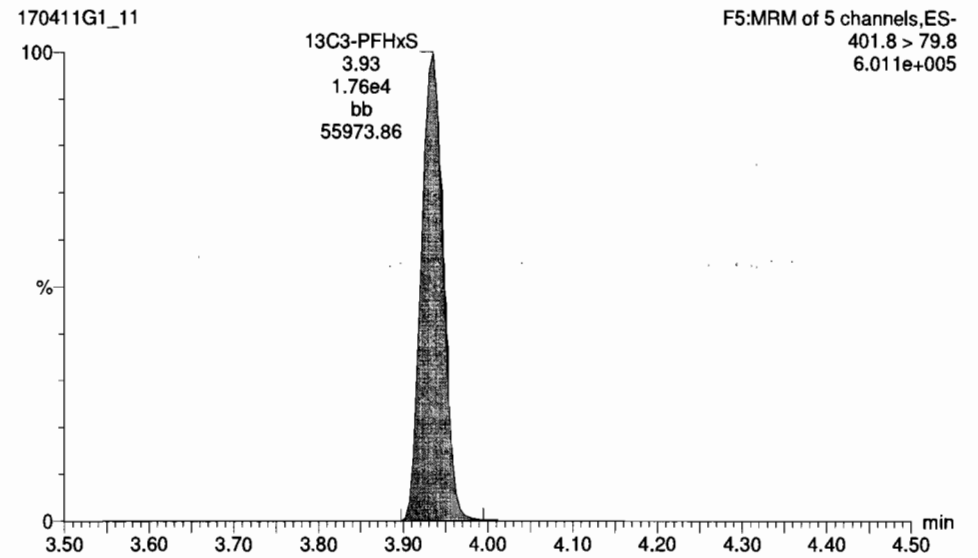
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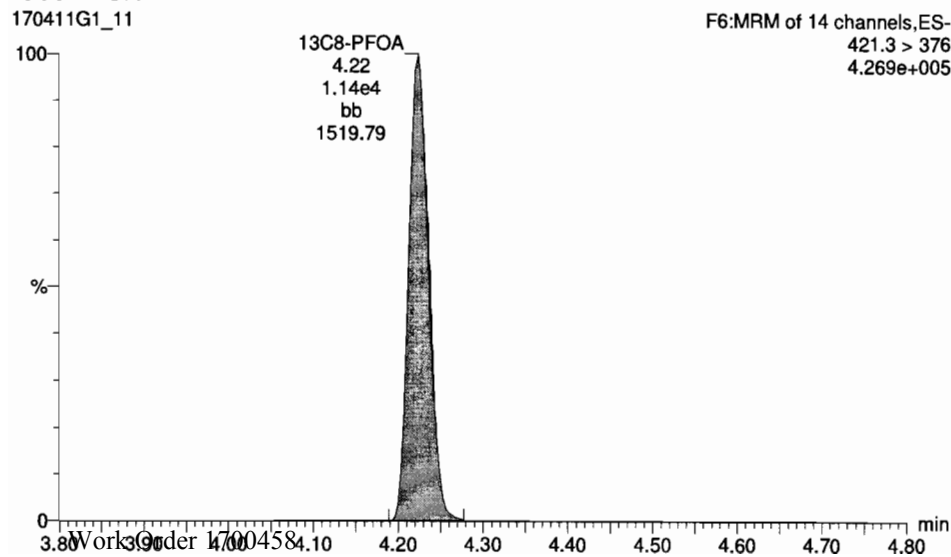
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170411G1_11



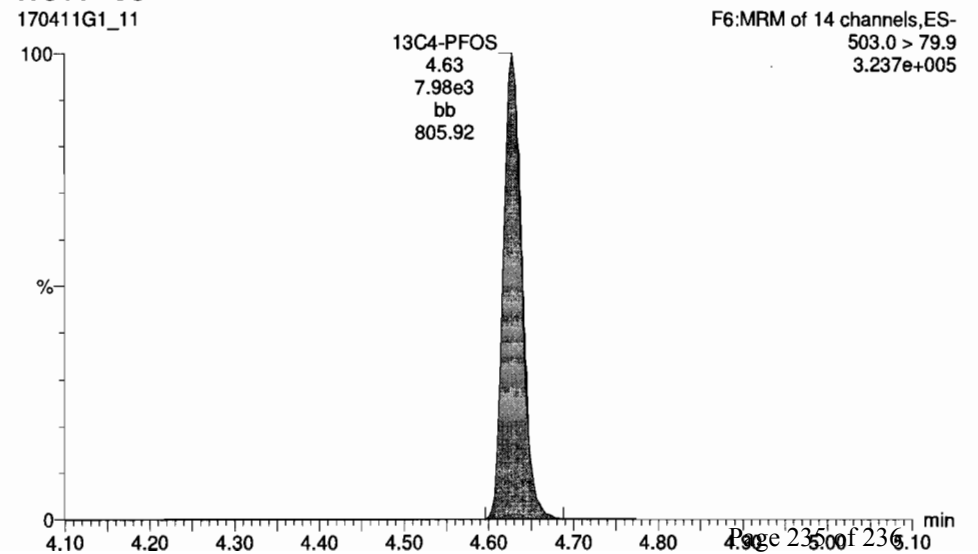
13C8-PFOA

170411G1_11



13C4-PFOS

170411G1_11



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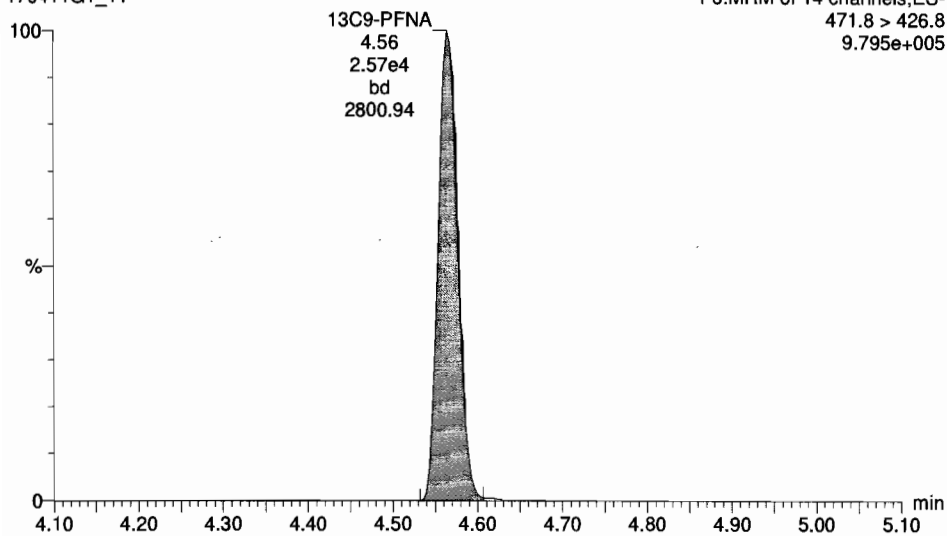
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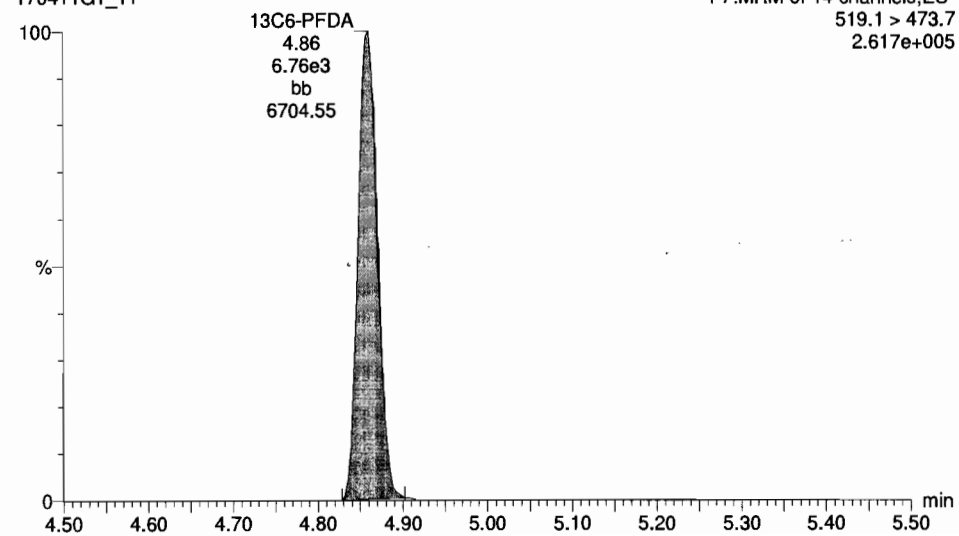
13C9-PFNA

170411G1_11



13C6-PFDA

170411G1_11



**DATA VALIDATION SUMMARY REPORT
NALF FENTRESS, VIRGINIA**

Client: CH2M HILL, Inc., Corvallis, Oregon
 SDG: 1700458
 Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
 Site: NALF Fentress, CTO-WE01, Virginia
 Date: July 17, 2017

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	OF-MW34D-0417	1700458-01	Water
1MS	OF-MW34D-0417MS	1700458-01MS	Water
1MSD	OF-MW34D-0417MSD	1700458-01MSD	Water
2	OF-MW32D-0417	1700458-02	Water
3	OF-MW32DP-0417	1700458-03	Water
4	OF-EB041417	1700458-04	Water
5	OF-FB041417	1700458-05	Water

A full data validation was performed on the analytical data for three water samples, one aqueous equipment blank sample and one aqueous field blank sample collected on April 14, 2017 by CH2M HILL at the NALF Fentress site in Chesapeake, Virginia. The samples were analyzed under the EPA Method “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”.

Specific method references are as follows:

Analysis
PFCs

Method References
USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM), Version 5.0 (July 2013) and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Superfund Organic Methods Data Review,” August 2014;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation

- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Perfluorinated Compounds (PFCs)

Data Completeness, Case Narrative & Custody Documentation

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- The field blank samples were free of contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
OF-EB041417	None - ND	-	-	-
OF-FB041417	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	OF-MW32D-0417 ng/L	OF-MW32DP-0417 ng/L	RPD	Qualifier
PFOS	1.97	2.10	6%	None

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 7/17/17
Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Sample ID: OF-MW34D-0417

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-01	Date Received:	15-Apr-2017 9:22		
Project:		Sample Size:	0.125 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40		
Date Collected:	14-Apr-2017 9:35			Date Analyzed:	19-Apr-17 18:56	Column:	BEH C18		
Location:									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	109	60- 150	
PFHpA	ND	0.591	2.00	8.00		IS 13C4-PFHpA	78.1	60- 150	
PFHxS	ND	0.947	2.00	8.00		IS 18O2-PFHxS	94.1	60- 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	84.2	60- 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	86.2	60- 150	
PFNA	ND	0.810	2.00	8.00		IS 13C5-PFNA	94.6	50- 150	

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

NW 7.17.17

2

Sample ID: OF-MW32D-0417		Modified EPA Method 537							
Client Data			Sample Data		Laboratory Data				
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-02	Date Received:	15-Apr-2017 9:22		
Project:		Sample Size:	0.123 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40		
Date Collected:	14-Apr-2017 10:50			Date Analyzed:	19-Apr-17 19:34	Column:	BEH C18		
Location:									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.82	4.07	8.15		IS 13C3-PFBS	107	60 - 150	
PFHpA	ND	0.602	2.03	8.15		IS 13C4-PFHpA	87.4	60 - 150	
PFHxS	ND	0.965	2.03	8.15		IS 18O2-PFHxS	95.5	60 - 150	
PFOA	ND	0.663	2.03	8.15		IS 13C2-PFOA	88.9	60 - 150	
PFOS	1.97	0.822	0.915	8.15	J	IS 13C8-PFOS	92.5	60 - 150	
PFNA	ND	0.825	2.03	8.15		IS 13C5-PFNA	89.5	50 - 150	

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

11/17/17

3

Sample ID: OF-MW32DP-0417			Modified EPA Method 537		
Client Data		Sample Data		Laboratory Data	
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-03
Project:		Sample Size:	0.122 L	QC Batch:	B7D0088
Date Collected:	14-Apr-2017 10:55			Date Analyzed:	19-Apr-17 19:47
Location:				Column:	BEH C18
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.84	4.10	8.22	IS
PFHpA	ND	0.607	2.05	8.22	IS
PFHxS	ND	0.973	2.05	8.22	IS
PFOA	ND	0.669	2.05	8.22	IS
PFOS	2.10	0.829	0.922	8.22	IS
PFNA	ND	0.832	2.05	8.22	IS
					%R
					102
					86.6
					94.1
					82.1
					75.6
					92.9
					LCL-UCL
					60- 150
					60- 150
					60- 150
					60- 150
					60- 150
					50- 150

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

new 7/17/17

4

Sample ID: OF-EB041417			Modified EPA Method 537						
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-04	Date Received:	15-Apr-2017 9:22		
Project:		Sample Size:	0.120 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40		
Date Collected:	14-Apr-2017 11:00			Date Analyzed:	19-Apr-17 20:38	Column:	BEH C18		
Location:									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.86	4.17	8.32		IS 13C3-PFBS	104	60 - 150	
PFHpA	ND	0.615	2.08	8.32		IS 13C4-PFHpA	87.6	60 - 150	
PFHxS	ND	0.985	2.08	8.32		IS 18O2-PFHxS	96.3	60 - 150	
PFOA	ND	0.677	2.08	8.32		IS 13C2-PFOA	84.2	60 - 150	
PFOS	ND	0.840	0.938	8.32		IS 13C8-PFOS	99.0	60 - 150	
PFNA	ND	0.843	2.08	8.32		IS 13C5-PFNA	92.0	50 - 150	

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

see 7/17/17

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Sample ID: OF-FB041417				Modified EPA Method 537					
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1700458-05	Date Received:	15-Apr-2017 9:22		
Project:		Sample Size:	0.119 L	QC Batch:	B7D0088	Date Extracted:	19-Apr-2017 15:40		
Date Collected:	14-Apr-2017 11:05			Date Analyzed:	19-Apr-17 20:50	Column:	BEH C18		
Location:									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.88	4.20	8.41		IS 13C3-PFBS	101	60 - 150	
PFHpA	ND	0.621	2.10	8.41		IS 13C4-PFHpA	83.2	60 - 150	
PFHxS	ND	0.996	2.10	8.41		IS 18O2-PFHxS	98.5	60 - 150	
PFOA	ND	0.685	2.10	8.41		IS 13C2-PFOA	84.7	60 - 150	
PFOS	ND	0.849	0.945	8.41		IS 13C8-PFOS	85.5	60 - 150	
PFNA	ND	0.852	2.10	8.41		IS 13C5-PFNA	90.1	50 - 150	

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

file name

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-FB041417	WQ	Water for QC samples	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-FB041417	WQ	Water for QC samples	14-Apr-17
OF-MW34D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12173397.18	3415006.49	Perfluoroalkyl Compounds	OF-MW34D-0417	WG	Ground water	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-FB041417	WQ	Water for QC samples	14-Apr-17
OF-MW34D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12173397.18	3415006.49	Perfluoroalkyl Compounds	OF-MW34D-0417	WG	Ground water	14-Apr-17
OF-MW34D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12173397.18	3415006.49	Perfluoroalkyl Compounds	OF-MW34D-0417	WG	Ground water	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32DP-0417	WG	Ground water	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-EB041417	WQ	Water for QC samples	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32DP-0417	WG	Ground water	14-Apr-17
OF-MW34D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12173397.18	3415006.49	Perfluoroalkyl Compounds	OF-MW34D-0417	WG	Ground water	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32D-0417	WG	Ground water	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32D-0417	WG	Ground water	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32D-0417	WG	Ground water	14-Apr-17
OF-MW34D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12173397.18	3415006.49	Perfluoroalkyl Compounds	OF-MW34D-0417	WG	Ground water	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32D-0417	WG	Ground water	14-Apr-17
OF-MW34D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12173397.18	3415006.49	Perfluoroalkyl Compounds	OF-MW34D-0417	WG	Ground water	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32DP-0417	WG	Ground water	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-EB041417	WQ	Water for QC samples	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-FB041417	WQ	Water for QC samples	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-FB041417	WQ	Water for QC samples	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32DP-0417	WG	Ground water	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-EB041417	WQ	Water for QC samples	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32DP-0417	WG	Ground water	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-FB041417	WQ	Water for QC samples	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32DP-0417	WG	Ground water	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-EB041417	WQ	Water for QC samples	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-EB041417	WQ	Water for QC samples	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32D-0417	WG	Ground water	14-Apr-17
OF-MW32D	SITE 00017	OCEANA_NAS	WLM	Monitoring well	1700458	12175357.49	3417313.81	Perfluoroalkyl Compounds	OF-MW32D-0417	WG	Ground water	14-Apr-17
		OCEANA_NAS			1700458			Perfluoroalkyl Compounds	OF-EB041417	WQ	Water for QC samples	14-Apr-17