NAVFAC
Naval Facilities Engineering Command

Groundwater Sample Results, Level 2 Laboratory Report, Level 4 Laboratory Report, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG 1601420

Naval Air Station Oceana
Virginia Beach, Virginia

July 2019

November 23, 2016

Vista Work Order No. 1601420

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 November 09, 2016. This sample set was analyzed on a rush turn-around time, under your Project Name 'Oceana PFCs (CTO-WE14)'.

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

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

Sincerely,

Martha Maier
Laboratory Director

Vista Work Order No. 1601420
Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

Modified EPA Method 537

The samples were extracted and analyzed for a selected list of 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 QAPP acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1601420-01	FTWG-MW-02-1116	08-Nov-16 08:00	09-Nov-16 09:17	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601420-02	OC-EB110816	08-Nov-16 09:05	09-Nov-16 09:17	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601420-03	OC-FB110816	08-Nov-16 09:10	09-Nov-16 09:17	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank

Modified EPA Method 537

Matrix: Aqueous
Sample Size: 0.125 L

QC Batch: B6K0124
Date Extracted: 17-Nov-2016 9:42

Lab Sample: B6K0124-BLK1
Date Analyzed: 22-Nov-16 19:17 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.79	4.00	8.00	
PFHpA	0.802	0.591	2.00	8.00	J
PFHxS	ND	0.947	2.00	8.00	
PFOA	ND	0.651	2.00	8.00	
PFOS	1.71	0.807	0.900	8.00	J
PFNA	ND	0.810	2.00	8.00	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	115	60 - 150	
IS	13C4-PFHpA	95.3	60 - 150	
IS	18O2-PFHxS	92.1	60 - 150	
IS	13C2-PFOA	92.0	60 - 150	
IS	13C8-PFOS	111	60 - 150	
IS	13C5-PFNA	90.5	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: OPR

Modified EPA Method 537

Matrix:	Aqueous	QC Batch:	B6K0124	Lab Sample:	B6K0124-BS1
Sample Size:	0.125 L	Date Extracted:	17-Nov-2016 9:42	Date Analyzed:	22-Nov-16 18:39 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits
PFBS	88.8	80.0	111	60 - 130
PFHpA	88.0	80.0	110	70 - 130
PFHxS	90.1	80.0	113	70 - 130
PFOA	84.6	80.0	106	70 - 130
PFOS	89.7	80.0	112	70 - 130
PFNA	88.2	80.0	110	50 - 130

	Labeled Standard	%R	LCL-UCL
IS	13C3-PFBS	100	60 - 150
IS	13C4-PFHpA	89.1	60 - 150
IS	18O2-PFHxS	89.4	60 - 150
IS	13C2-PFOA	81.1	60 - 150
IS	13C8-PFOS	93.6	60 - 150
IS	13C5-PFNA	80.8	50 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: FTWG-MW-02-1116

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: Oceana PFCs (CTO-WE14)
Date Collected: 08-Nov-2016 8:00
Location:

Sample Data

Matrix: Aqueous
Sample Size: 0.108 L

Laboratory Data

Lab Sample: 1601420-01 Date Received: 09-Nov-2016 9:17
QC Batch: B6K0124 Date Extracted: 17-Nov-2016 9:42
Date Analyzed: 22-Nov-16 20:07 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	7.94	2.08	4.63	9.30	J
PFHpA	8.36	0.687	2.31	9.30	J, B
PFHxS	11.0	1.10	2.31	9.30	
PFOA	90.3	0.757	2.31	9.30	
PFOS	40.1	0.938	1.04	9.30	B
PFNA	3.59	0.942	2.31	9.30	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	114	60 - 150	
IS	13C4-PFHpA	67.5	60 - 150	
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IS	13C8-PFOS	78.3	60 - 150	
IS	13C5-PFNA	76.0	50 - 150	

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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: OC-EB110816

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: Oceana PFCs (CTO-WE14)
Date Collected: 08-Nov-2016 9:05
Location:

Sample Data

Matrix: Aqueous
Sample Size: 0.132 L

Laboratory Data

Lab Sample: 1601420-02 Date Received: 09-Nov-2016 9:17
QC Batch: B6K0124 Date Extracted: 17-Nov-2016 9:42
Date Analyzed: 22-Nov-16 20:20 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.69	3.79	7.58	
PFHpA	0.771	0.560	1.89	7.58	J, B
PFHxS	ND	0.897	1.89	7.58	
PFOA	ND	0.616	1.89	7.58	
PFOS	1.75	0.764	0.852	7.58	J, B
PFNA	ND	0.767	1.89	7.58	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	99.4	60 - 150	
IS	13C4-PFHpA	83.2	60 - 150	
IS	18O2-PFHxS	95.5	60 - 150	
IS	13C2-PFOA	82.5	60 - 150	
IS	13C8-PFOS	92.0	60 - 150	
IS	13C5-PFNA	83.5	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: OC-FB110816

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: Oceana PFCs (CTO-WE14)
Date Collected: 08-Nov-2016 9:10
Location:

Sample Data

Matrix: Aqueous
Sample Size: 0.128 L

Laboratory Data

Lab Sample: 1601420-03 Date Received: 09-Nov-2016 9:17
QC Batch: B6K0124 Date Extracted: 17-Nov-2016 9:42
Date Analyzed: 22-Nov-16 20:32 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.75	3.91	7.84	
PFHpA	0.780	0.579	1.95	7.84	J, B
PFHxS	ND	0.928	1.95	7.84	
PFOA	ND	0.638	1.95	7.84	
PFOS	3.48	0.791	0.879	7.84	J, B
PFNA	0.866	0.793	1.95	7.84	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	108	60 - 150	
IS	13C4-PFHpA	88.8	60 - 150	
IS	18O2-PFHxS	94.5	60 - 150	
IS	13C2-PFOA	97.0	60 - 150	
IS	13C8-PFOS	86.4	60 - 150	
IS	13C5-PFNA	86.0	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.

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
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-004
Pennsylvania Department of Environmental Protection	012
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	7923
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

Vista Analytical Laboratory

CHAIN OF CUSTODY

1601420 1.3°C

For Laboratory Use Only
Laboratory Project ID: Temp: °C
Storage ID: Storage Secured: Yes ☑ No ☐

Project ID: OCEANA PFCs (CTU-WEIU) P.O.#: 10006-7-105690 Sampler: MARITA CLAY/MARK OST (name)

TAT (check one): Standard: ☐ 21 days; Rush (surcharge may apply): ☒ 14 days ☐ 7 days Specify:

Invoice to: Name	Company	Address	City	State	Ph#	Fax#
TIFFANY HILL	CH2M	5701 CLEVELAND ST	VIRGINIA BEACH	VA	541-768-3109	

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Marita Clay MARITA CLAY	11/8/16	1530	Marissa Sparks MSparks	11/9/16	0934
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

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

ATTN: MARTHA MAIER

Method of Shipment: FEDEX

Tracking No.:

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	EPA 1613 2378-TCDD	EPA 1613 TCDD/TCDF	EPA 1613 PCDD/PCDF	EPA 8290 2378-TCDD	EPA 8290 TCDD/TCDF	EPA 8290 PCDD/PCDF	EPA 8280 2378-TCDD	EPA 8280 TCDD/TCDF	EPA 8280 PCDD/PCDF	EPA 1668 TOTALS	EPA 1668 COPLANAR PCB's	EPA 1668 209 CONGENERS	EPA 1668 PBDE	EPA 1668 PAH	EPA 1614 WHO-29	CARB429 Mod. EPA 537	Comments
* FTWG-MW-02-1116	11/8/16	0800	OCEANA	2	O	~~AQ~~															2		
OC-EB 110816	11/8/16	0905	OCEANA	2	O	EB															2		EQUIPMENT BLANK
OC-FB 110816	11/8/16	0910	OCEANA	2	O	FB															2		FIELD BLANK

Special Instructions/Comments:
~~NA~~ PURGE CONDUCTED, SAMPLE HAS STRONG PETROLEUM ODOR AND MAY HAVE FREE PRODUCT

SEND DOCUMENTATION AND RESULTS TO:

Name: TIFFANY HILL
Company: CH2M
Address: 5701 CLEVELAND ST
City: VIRGINIA BEACH State: VA Zip: 23462
Phone: 541-768-3109 Fax:
Email: TIFFANY.HILL@CH2M.COM

Container Types: A = 1 Liter Amber, G = Glass Jar, P = PUF, T = MM5, O = Other: 125mL HDPE

Bottle Preservation Type: T = Thiosulfate, O = Other:

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

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: ~~1601420~~ 1601420 **TAT** 14

Samples Arrival:	**Date/Time** 11/9/16 0917	**Initials:** WMS	**Location:** WR-2 **Shelf/Rack:** NA
Logged In:	**Date/Time** 11/09/16 1023	**Initials:** BLB	**Location:** WR-2 **Shelf/Rack:** E4

Delivered By:	(FedEx)	UPS	On Trac	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice		Dry Ice		None

Temp °C: 1.6	(uncorrected)	**Time:** 0933	**Thermometer ID:** IR-1
Temp °C: 1.3	(corrected)	**Probe used:** Yes☐ No☒	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	√		
Shipping Custody Seals Intact?	√		
Shipping Documentation Present?	√		
Airbill — Trk # 7845 8753 0081	√		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	√		
COC Anomaly/Sample Acceptance Form completed?		✓	

If Chlorinated or Drinking Water Samples, Acceptable Preservation?					✓
Preservation Documented:	$Na_2S_2O_3$	Trizma		Yes	No	(NA)
Shipping Container	Vista	(Client)	Retain	(Return)	Dispose	

Comments:

November 23, 2016

Vista Work Order No. 1601420

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 November 09, 2016. This sample set was analyzed on a rush turn-around time, under your Project Name 'Oceana PFCs (CTO-WE14)'.

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

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

Sincerely,

Martha Maier
Laboratory Director

Vista Work Order No. 1601420
Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

Sample "FTWG-MW-02-1116" contained particulate and was centrifuged prior to extraction.

Modified EPA Method 537

The samples were extracted and analyzed for a selected 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 QAPP acceptance criteria.

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				HDPE Bottle, 125 mL
1601420-02	OC-EB110816	08-Nov-16 09:05	09-Nov-16 09:17	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1601420-03	OC-FB110816	08-Nov-16 09:10	09-Nov-16 09:17	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank

Modified EPA Method 537

Matrix: Aqueous
Sample Size: 0.125 L

QC Batch: B6K0124
Date Extracted: 17-Nov-2016 9:42

Lab Sample: B6K0124-BLK1
Date Analyzed: 22-Nov-16 19:17 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.79	4.00	8.00	
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IS	13C3-PFBS	115	60 - 150	
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IS	13C2-PFOA	92.0	60 - 150	
IS	13C8-PFOS	111	60 - 150	
IS	13C5-PFNA	90.5	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: OPR

Modified EPA Method 537

Matrix:	Aqueous	QC Batch:	B6K0124	Lab Sample:	B6K0124-BS1
Sample Size:	0.125 L	Date Extracted:	17-Nov-2016 9:42	Date Analyzed:	22-Nov-16 18:39 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits
PFBS	88.8	80.0	111	60 - 130
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Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: Oceana PFCs (CTO-WE14)
Date Collected: 08-Nov-2016 8:00
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Sample Data

Matrix: Aqueous
Sample Size: 0.108 L

Laboratory Data

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Date Collected: 08-Nov-2016 9:05
Location:

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Matrix: Aqueous
Sample Size: 0.132 L

Laboratory Data

Lab Sample: 1601420-02 Date Received: 09-Nov-2016 9:17
QC Batch: B6K0124 Date Extracted: 17-Nov-2016 9:42
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Only the linear isomer is reported for all other analytes.

Sample ID: OC-FB110816

Modified EPA Method 537

Client Data

Name: CH2M Hill
Project: Oceana PFCs (CTO-WE14)
Date Collected: 08-Nov-2016 9:10
Location:

Sample Data

Matrix: Aqueous
Sample Size: 0.128 L

Laboratory Data

Lab Sample: 1601420-03 Date Received: 09-Nov-2016 9:17
QC Batch: B6K0124 Date Extracted: 17-Nov-2016 9:42
Date Analyzed: 22-Nov-16 20:32 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers
PFBS	ND	1.75	3.91	7.84	
PFHpA	0.780	0.579	1.95	7.84	J, B
PFHxS	ND	0.928	1.95	7.84	
PFOA	ND	0.638	1.95	7.84	
PFOS	3.48	0.791	0.879	7.84	J, B
PFNA	0.866	0.793	1.95	7.84	J

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C3-PFBS	108	60 - 150	
IS	13C4-PFHpA	88.8	60 - 150	
IS	18O2-PFHxS	94.5	60 - 150	
IS	13C2-PFOA	97.0	60 - 150	
IS	13C8-PFOS	86.4	60 - 150	
IS	13C5-PFNA	86.0	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.

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
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-004
Pennsylvania Department of Environmental Protection	012
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	7923
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

Vista Analytical Laboratory

CHAIN OF CUSTODY

1601420 1.3°C

For Laboratory Use Only
Laboratory Project ID: Temp: °C
Storage ID: Storage Secured: Yes ☑ No ☐

Project ID: OCEANA PFCs (CTU-WEIU) P.O.#: 10006-7-105690 Sampler: MARITA CLAY/MARK OST (name)

TAT (check one): Standard: ☐ 21 days; Rush (surcharge may apply): ☒ 14 days ☐ 7 days Specify:

Invoice to: Name	Company	Address	City	State	Ph#	Fax#
TIFFANY HILL	CH2M	5701 CLEVELAND ST	VIRGINIA BEACH	VA	541-768-3109	

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Marita Clay MARITA CLAY	11/8/16	1530	Marissa Sparks MSparks	11/9/16	0934
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

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

ATTN: MARTHA MAIER

Method of Shipment: FEDEX

Tracking No.:

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	EPA 1613 2378-TCDD	EPA 1613 TCDD/TCDF	EPA 1613 PCDD/PCDF	EPA 8290 2378-TCDD	EPA 8290 TCDD/TCDF	EPA 8290 PCDD/PCDF	EPA 8280 2378-TCDD	EPA 8280 TCDD/TCDF	EPA 8280 PCDD/PCDF	EPA 1668 TOTALS	EPA 1668 COPLANAR PCB's	EPA 1668 209 CONGENERS	EPA 1668 PBDE	EPA 1668 PAH	EPA 1614 WHO-29	CARB429 Mod. EPA 537	Comments
* FTWG-MW-02-1116	11/8/16	0800	OCEANA	2	O	~~AQ~~															2		
OC-EB 110816	11/8/16	0905	OCEANA	2	O	EB															2		EQUIPMENT BLANK
OC-FB 110816	11/8/16	0910	OCEANA	2	O	FB															2		FIELD BLANK

Special Instructions/Comments:
NA PURGE CONDUCTED, SAMPLE HAS STRONG PETROLEUM ODOR AND MAY HAVE FREE PRODUCT

SEND DOCUMENTATION AND RESULTS TO:

Name: TIFFANY HILL
Company: CH2M
Address: 5701 CLEVELAND ST
City: VIRGINIA BEACH State: VA Zip: 23462
Phone: 541-768-3109 Fax:
Email: TIFFANY.HILL@CH2M.COM

Container Types: A = 1 Liter Amber, G = Glass Jar, P = PUF, T = MM5, O = Other: 125mL HDPE

Bottle Preservation Type: T = Thiosulfate, O = Other:

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

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: ~~1601420~~ 1601420 **TAT** 14

Samples Arrival:	**Date/Time** 11/9/16 0917	**Initials:** WMS	**Location:** WR-2 **Shelf/Rack:** NA
Logged In:	**Date/Time** 11/09/16 1023	**Initials:** BLB	**Location:** WR-2 **Shelf/Rack:** E4

Delivered By:	(FedEx)	UPS	On Trac	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice		Dry Ice		None

Temp °C: 1.6	(uncorrected)	**Time:** 0933	**Thermometer ID:** IR-1
Temp °C: 1.3	(corrected)	**Probe used:** Yes☐ No☒	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	√		
Shipping Custody Seals Intact?	√		
Shipping Documentation Present?	√		
Airbill — Trk # 7845 8753 0081	√		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	√		
COC Anomaly/Sample Acceptance Form completed?		✓	

If Chlorinated or Drinking Water Samples, Acceptable Preservation?						✓
Preservation Documented:	$Na_2S_2O_3$	Trizma			Yes	No	(NA)
Shipping Container	Vista	(Client)	Retain	(Return)	Dispose	

Comments:

EXTRACTION INFORMATION

Process Sheet

Workorder: 1601420

Prep Expiration: 11/22/2016
Client: CH2M Hill

Workorder Due: 23-Nov-16 00:00

TAT: 14

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

Prep Batch: B616124

Prep Data Entered: 11/18/16 am
Date and Initials

Version: UCMR 3 (6 Analyte)

Initial Sequence: SC6K0058

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1601420-01	☑	FTWG-MW-02-1116	09-Nov-16 09:17	WR-2 E-4	
1601420-02	☑	OC-EB110816	09-Nov-16 09:17	WR-2 E-4	
1601420-03	☑	OC-FB110816	09-Nov-16 09:17	WR-2 E-4	

WO Comments: **List of 6, include Total PFOA.**
Per COC: No purge conducted, sample has strong petroleum odor and may have free product.

Vista PM:Martha Maier

Vial Box ID: Reptar

Sample Reconciled By: 11/17/16

Page 1 of 1

Percent Solids

Vista Analytical Laboratory

Project: B6K0124 **Balance ID:** HRMS 8

Sample ID	Chemist: NA Date: — Time: ↓ Boat Wt.	Sample + Boat Wt.	Chemist: NA Date: — Time: ↓ Residue + Boat Wt.	Chemist/Dat JS 11/17/ JS 11/16 pH before	pH* after	
1601365-07				5	2	
↓ -09				5	2	
1601398-02				5	2	
1601420-01				6	2	
↓ -02			JS 11/17/16	5	2	
↓ -03				5	2	
1601447-01				6	2	
↓ -02				6	2	

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:

* 2 drops HCl used to adjust pH JS 11/17/16

- *Methods 8280, 613, 1613, 8290, 1614 – pH <9*
- *Methods 1668/PCN – pH 2-3*
- *NCASI 551 – pH 1*

%Solids rmh 5.

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS DOD (LOO as mRL)

B6K0124

Chemist: G. Mendiola

Prep Date/Time: 17-Nov-16 09:42

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 CB6K0092	RS CHEM/WIT DATE
☐	B6K0124-BLK1	NA	NA	(0.125)	am JS 11/17/16	JS 11/17/16	am JS 11/17/16
☐	B6K0124-BS1	↓	↓	↓	↓	↓	↓
☐	B6K0124-BSD1	↓	↓	↓	↓	↓	↓
☐	1601365-07	155.16	27.37	0.12779			
☐	1601365-09	158.09	27.46	0.13063			
☐	1601398-02	156.17	26.80	0.12937			
☐	1601420-01 (A) JS 11/17/16 (B) (C) (D) (E)	133.97	26.43	0.10754 ✓			
☐	1601420-02	159.04	27.03	0.13201 ✓			
☐	1601420-03	154.73	27.13	0.1276 ✓			
☐	1601447-01 (B)	153.20	27.13	0.12607			
☐	1601447-02	150.88	27.00	0.12388			

(A) ~~Spike~~ Sample smells like petroleum. JS 11/17/16

(B) Sample contained particulate. Transferred to secondary container and centrifuged then decanted back into original container. JS 11/17/16

(C) Sample contained particulate. Transferred to secondary container and centrifuged then decanted into new bottle due to excess particulate adhering to inside of original. JS 11/17/16

(D) First centrifuge did not separate all particulate. Had to transfer to smaller tubes and centrifuge at higher speed. JS 11/17/16

IS Name	NS Name	RS Name	SPE Chem	Check Out: Chemist/Date
(V3) L6I2604, 10uL	(01) L6I1601, 10uL	(V5) L6K1105, 16uL	Strata XAW 33um 200mg/6mL	JS 11/17/16
			Ele SOLV: 0.5% NH4OH in MeOH + MeOH	Check In: Chemist/Date: NA
			Final Volume(s) 1mL	Balance ID: #RMS8

Comments: Assume 1 g = 1 mL

(E) Particulate still suspended in sample after second centrifuge. JS 11/17/16

SAMPLE DATA – MODIFIED EPA METHOD 537

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-45.qld

Last Altered: Wednesday, November 23, 2016 12:58:33 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 12:58:45 PM Pacific Standard Time

Method: Untitled 22 Nov 2016 14:48:20
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: B6K0124-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161122G2_45, Date: 22-Nov-2016, Time: 19:17:09

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	5.618e0	6.223e3		0.125	3.11	0.701	
2	5	PFHpA	363 > 318.9	1.766e1	1.281e4		0.125	3.99	0.802	
3	6	PFHxS	398.9 > 79.6	3.797e1	4.886e3		0.125	4.10	0.575	
4	8	PFOA	413 > 368.7	1.141e2	1.816e4		0.125	4.37		
5	10	PFOS	499 >79.9		6.872e3		0.125			
6	11	PFNA	463 > 418.8		9.378e3		0.125			
7	15	13C3-PFPeA	266>221.8	7.380e3	1.788e4	0.448	0.125	2.86	92.2	92.2
8	16	13C3-PFBS	302.0 > 98.8	6.223e3	1.788e4	0.302	0.125	3.11	115	115
9	18	13C4-PFHpA	367.2 > 321.8	1.281e4	1.180e4	1.139	0.125	3.99	95.3	95.3
10	19	18O2-PFHxS	403 > 102.6	4.886e3	1.180e4	0.449	0.125	4.10	92.1	92.1
11	20	13C2-6:2 FTS	429.1 > 408.9	3.854e3	5.290e3	1.073	0.125	4.33	67.9	67.9
12	21	13C2-PFOA	414.9 > 369.7	1.816e4	8.728e3	2.262	0.125	4.38	92.0	92.0
13	22	13C8-PFOS	507.0 > 79.9	6.872e3	6.545e3	0.944	0.125	4.78	111	111
14	23	13C5-PFNA	468.2 > 422.9	9.378e3	9.576e3	1.082	0.125	4.72	90.5	90.5
15	24	13C2-PFDA	515.1 > 469.9	7.371e3	8.540e3	1.019	0.125	5.02	84.7	84.7
16	25	13C2-8:2 FTS	529.1 > 508.7	3.222e3	5.290e3	0.569	0.125	4.99	107	107
17	26	13C4-PFBA	217 > 171.8	1.656e4	1.656e4	1.000	0.125	1.90	100	100
18	27	13C2-4:2 FTS	329.2 > 308.9	5.290e3	5.290e3	1.000	0.125	3.38	100	100
19	28	13C5-PFHxA	318.0 > 272.9	1.788e4	1.788e4	1.000	0.125	3.48	100	100
20	29	13C3-PFHxS	401.9 > 79.9	1.180e4	1.180e4	1.000	0.125	4.10	100	100
21	30	13C8-PFOA	421.3 > 376	8.728e3	8.728e3	1.000	0.125	4.38	100	100
22	31	13C4-PFOS	503.0 > 79.9	6.545e3	6.545e3	1.000	0.125	4.78	100	100
23	32	13C9-PFNA	472.2 > 426.9	9.576e3	9.576e3	1.000	0.125	4.72	100	100
24	33	13C6-PFDA	519.1 > 473.7	8.540e3	8.540e3	1.000	0.125	5.02	100	100
25	34	Total PFBS	299 > 79.7		4.886e3		0.125		0.701	
26	35	Total PFHxS	398.9 > 79.6		4.886e3		0.125		0.575	
27	36	Total PFOA	413 > 368.7		1.816e4		0.125			
28	37	Total PFOS	499 > 79.9		6.872e3		0.125		1.71	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-45.qld

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Printed: Wednesday, November 23, 2016 12:58:45 PM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: B6K0124-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161122G2_45, Date: 22-Nov-2016, Time: 19:17:09

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	299 > 79.7	3.11	5.618	6222.724	0.7

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	398.9 > 79.6	4.10	37.967	4885.943	0.6

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	413 > 368.7	4.37	114.109	18156.068	

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	37	Total PFOS	499 >79.9	4.70	6.935	6872.397	1.7

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-45.qld

Last Altered: Wednesday, November 23, 2016 12:58:33 PM Pacific Standard Time
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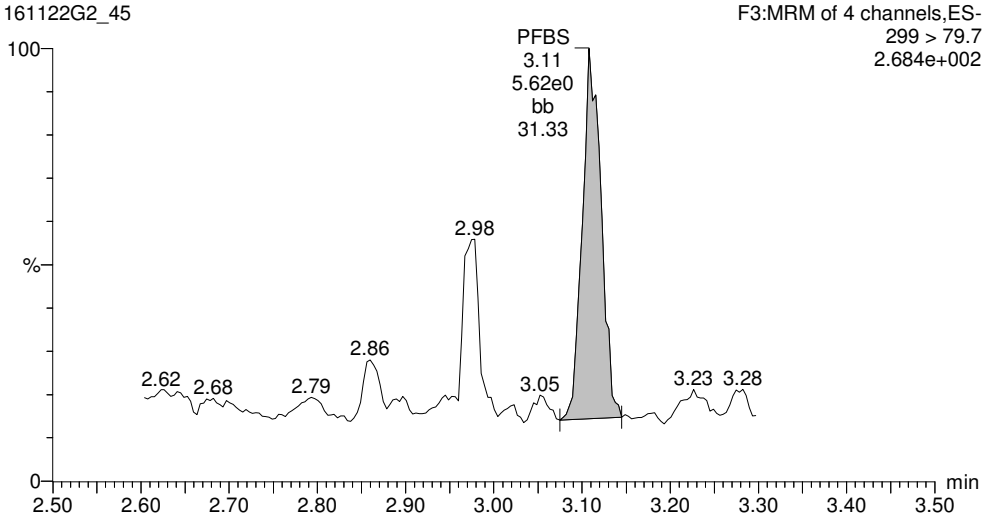
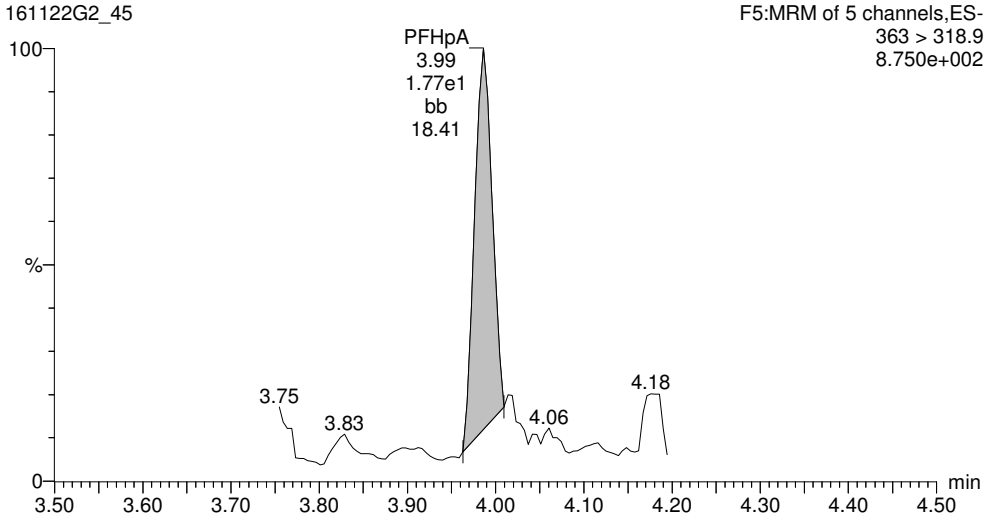
Method: Untitled 22 Nov 2016 14:48:20
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: B6K0124-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161122G2_45, Date: 22-Nov-2016, Time: 19:17:09, Instrument: , Lab: , User:

Total PFBS



PFHpA



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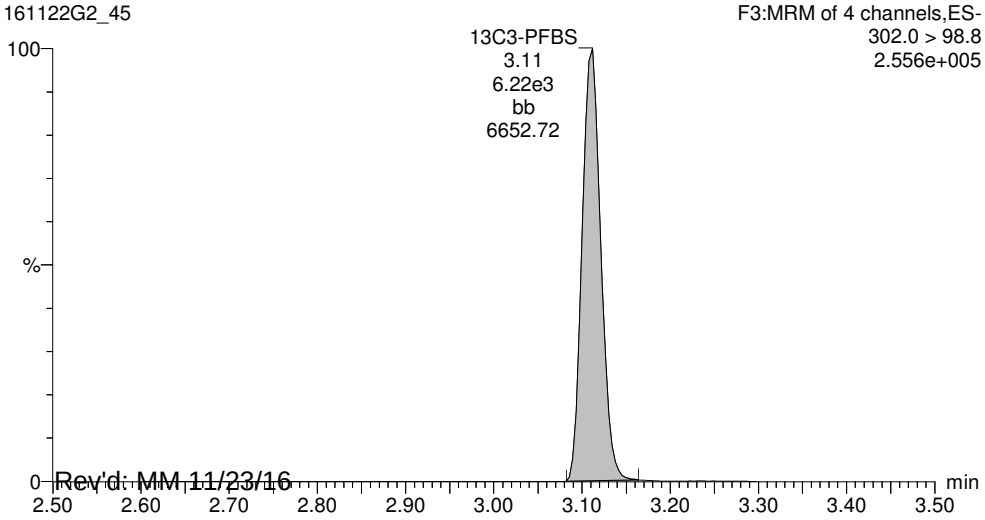
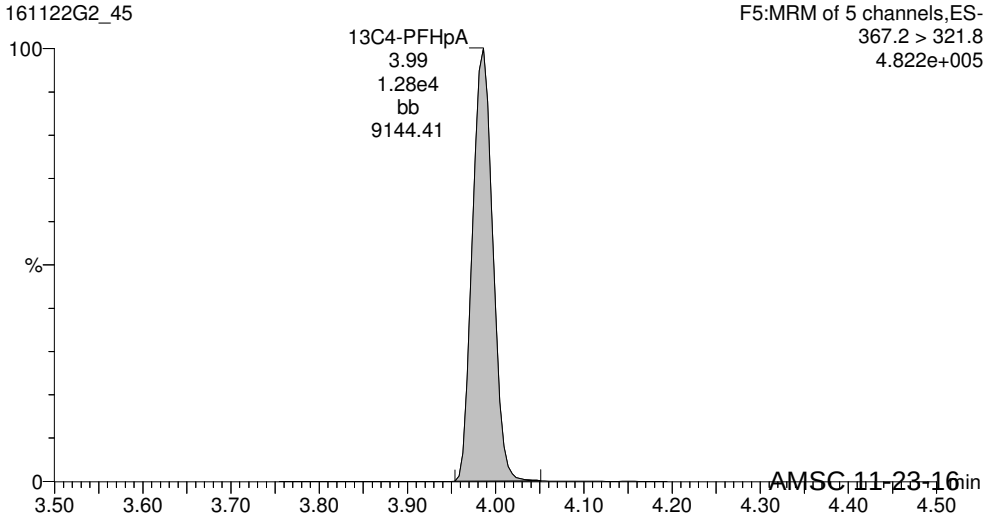


13C4-PFHpA



Rev'd: MM 11/23/16 AMSC 11-23-16

Vista Analytical Laboratory Q1

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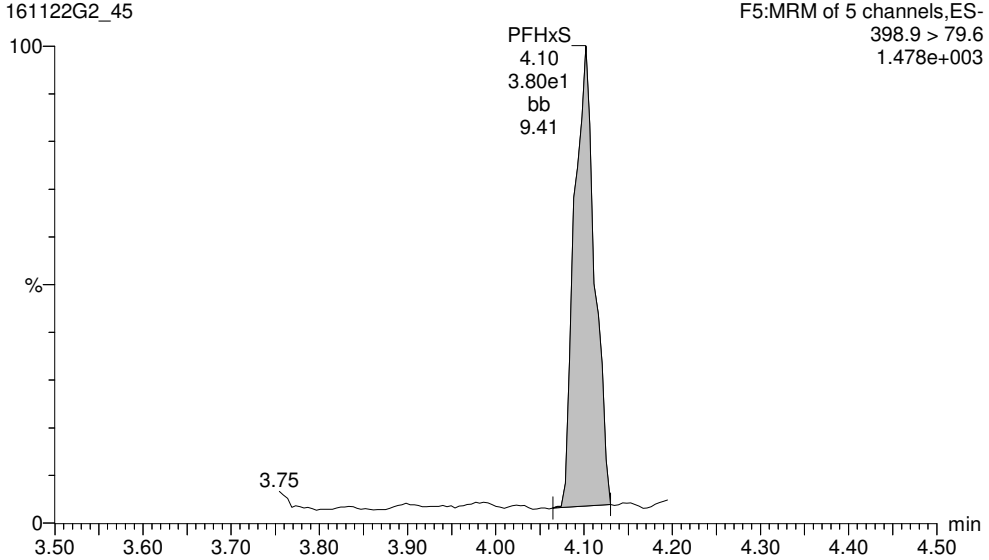
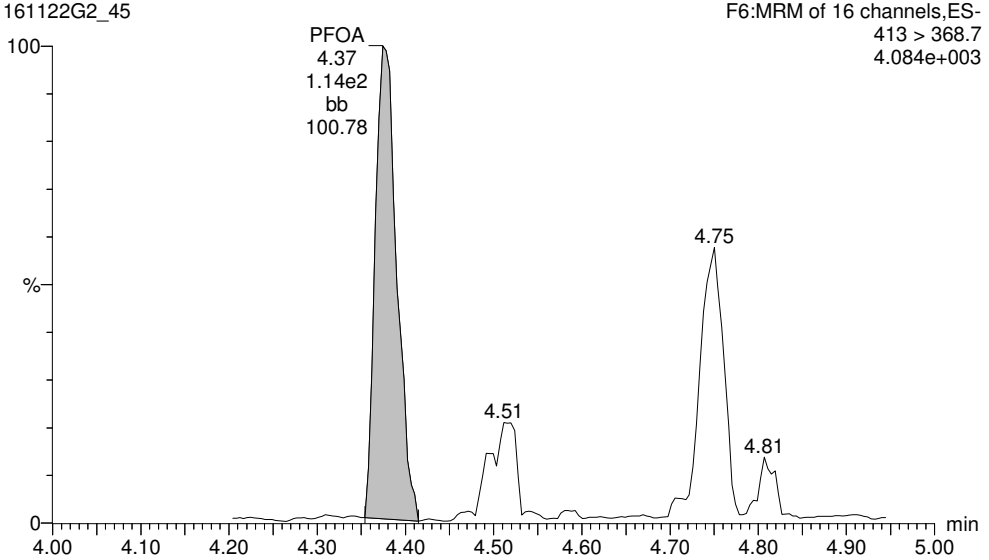
Last Altered: Wednesday, November 23, 2016 12:58:33 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 12:58:45 PM Pacific Standard Time

ID: B6K0124-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161122G2_45, Date: 22-Nov-2016, Time: 19:17:09, Instrument: , Lab: , User:

Total PFHxS



Total PFOA



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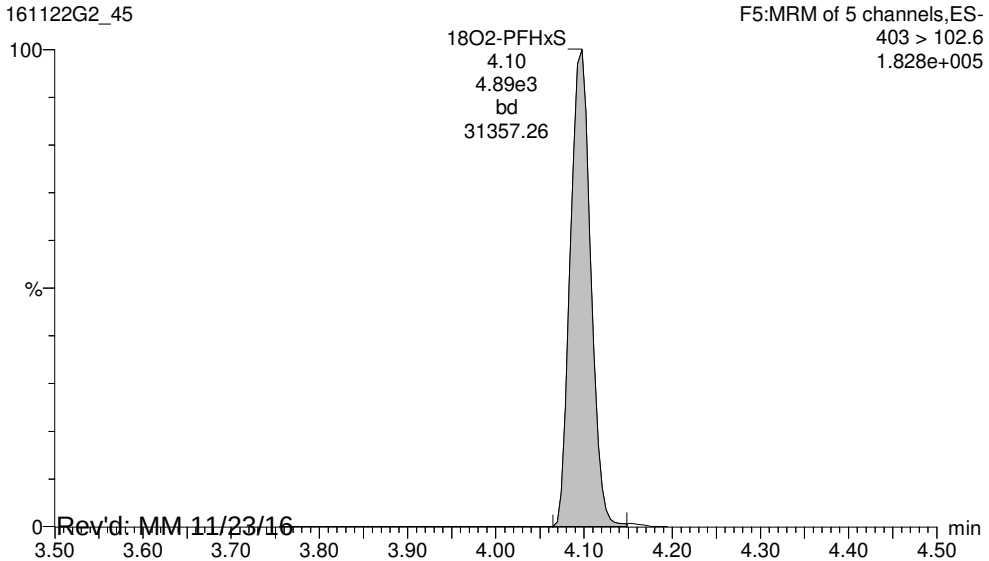
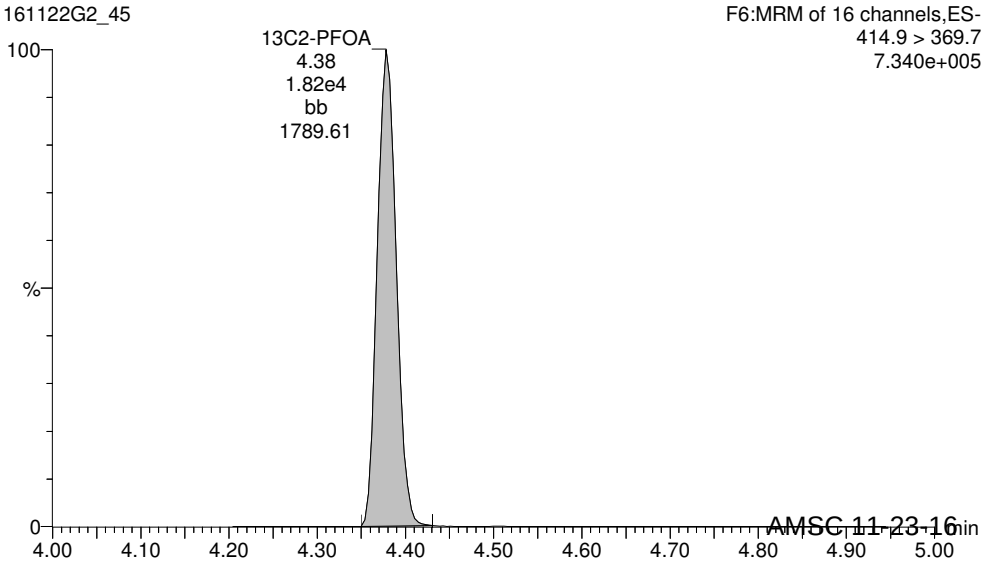


13C2-PFOA



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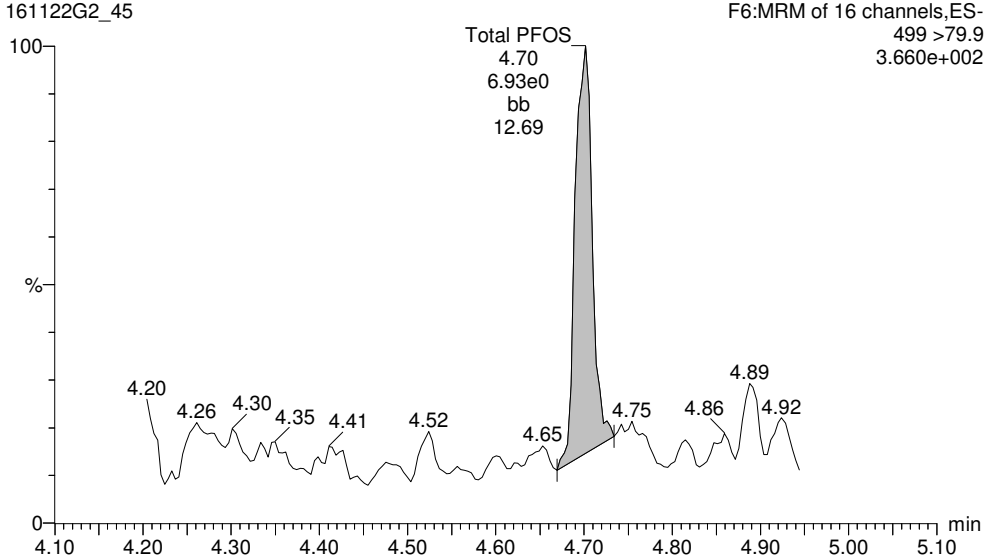
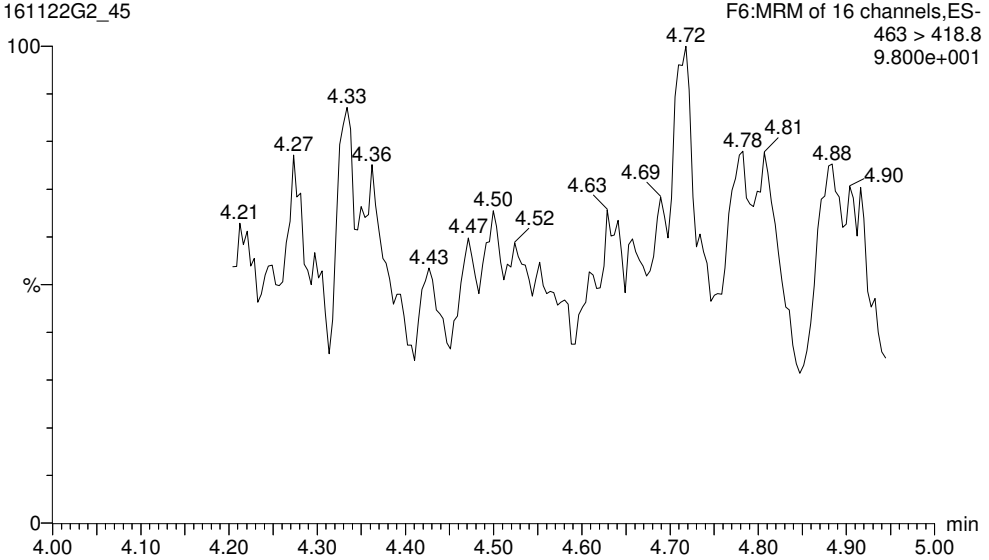
Last Altered: Wednesday, November 23, 2016 12:58:33 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 12:58:45 PM Pacific Standard Time

ID: B6K0124-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161122G2_45, Date: 22-Nov-2016, Time: 19:17:09, Instrument: , Lab: , User:

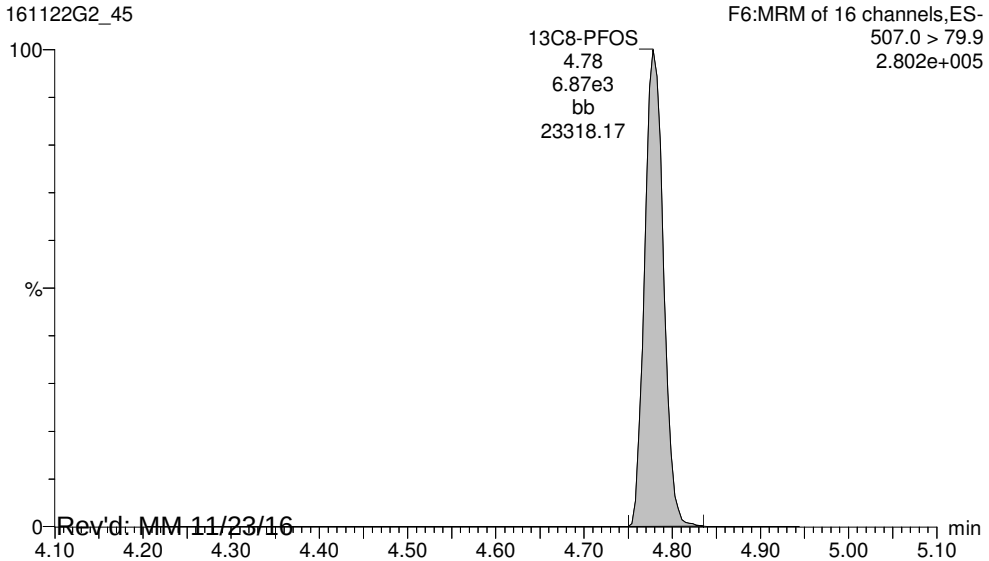
Total PFOS



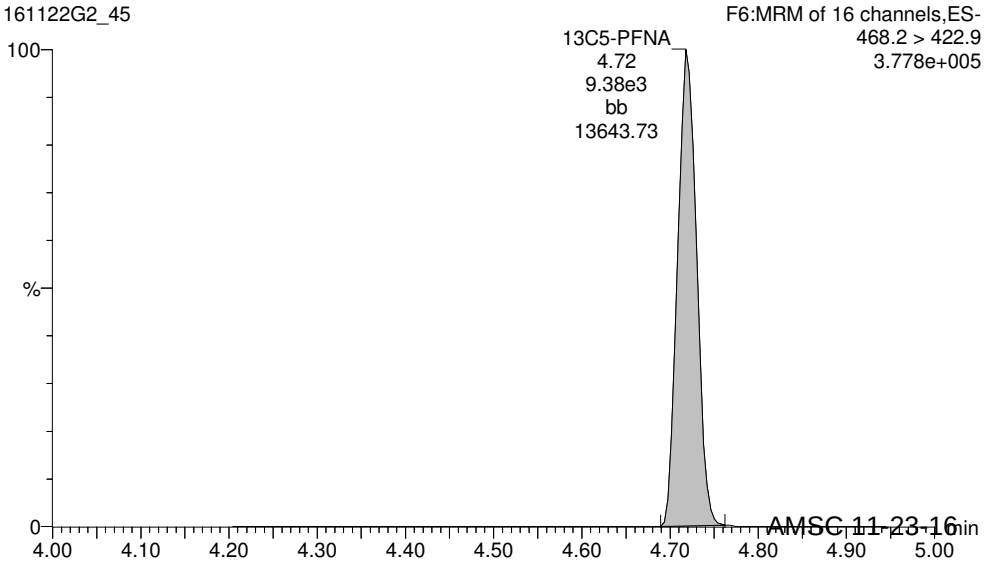
PFNA



13C8-PFOS



13C5-PFNA



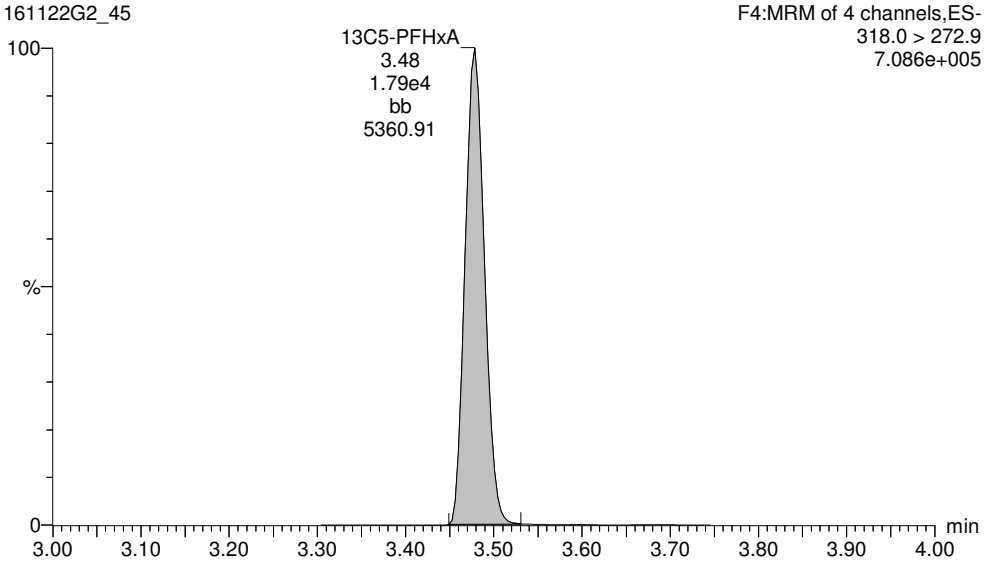
Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-45.qld

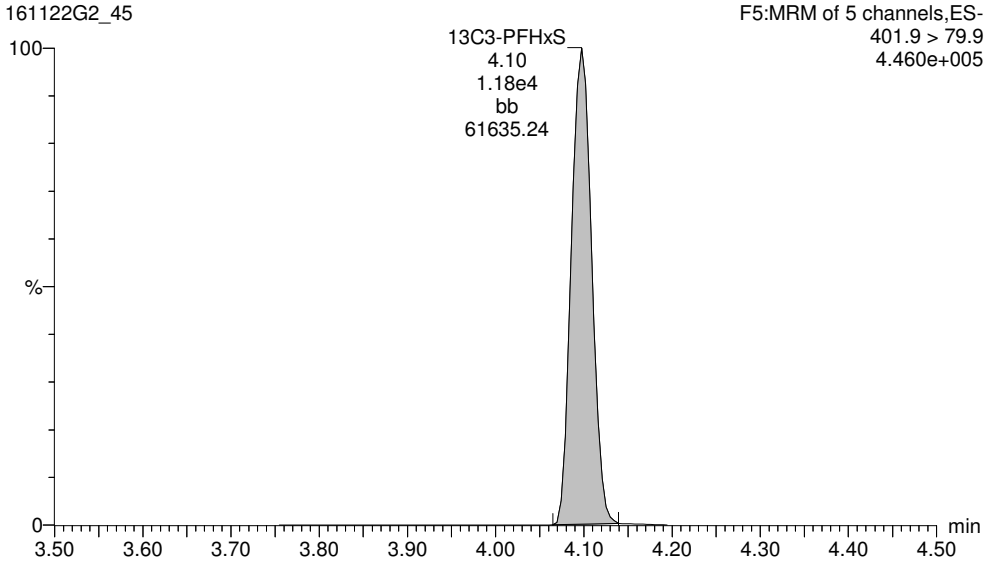
Last Altered: Wednesday, November 23, 2016 12:58:33 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 12:58:45 PM Pacific Standard Time

ID: B6K0124-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161122G2_45, Date: 22-Nov-2016, Time: 19:17:09, Instrument: , Lab: , User:

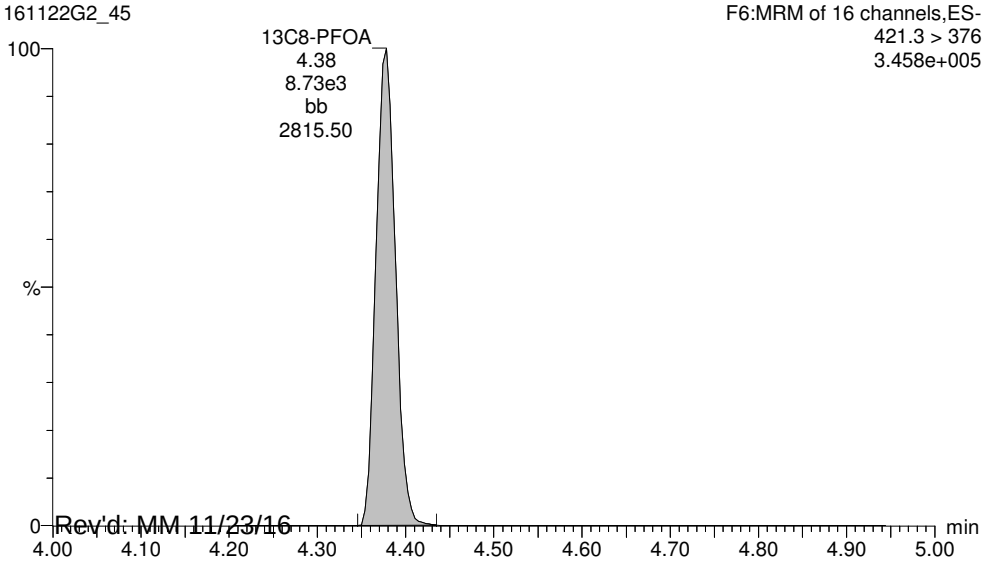
13C5-PFHxA



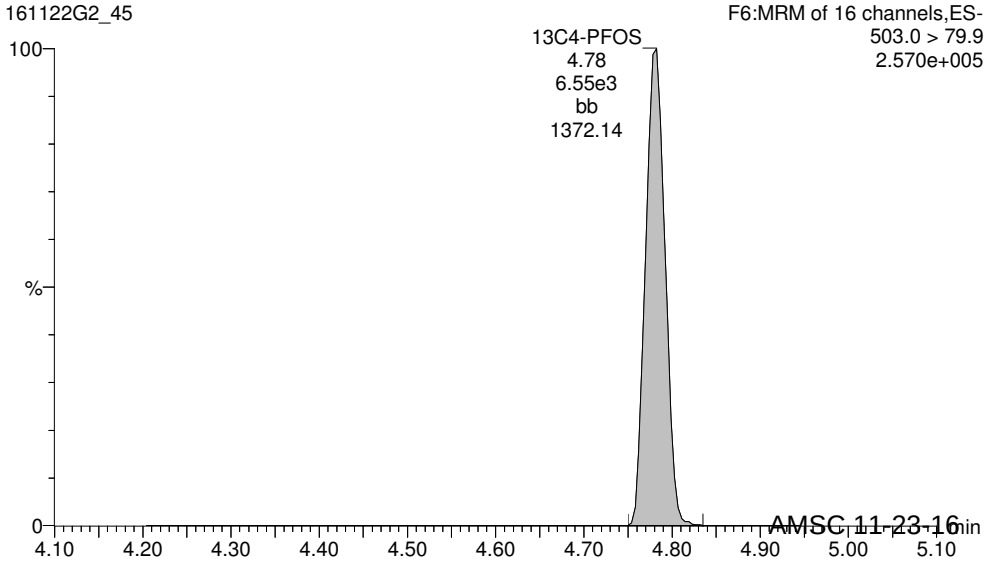
13C3-PFHxS



13C8-PFOA



13C4-PFOS



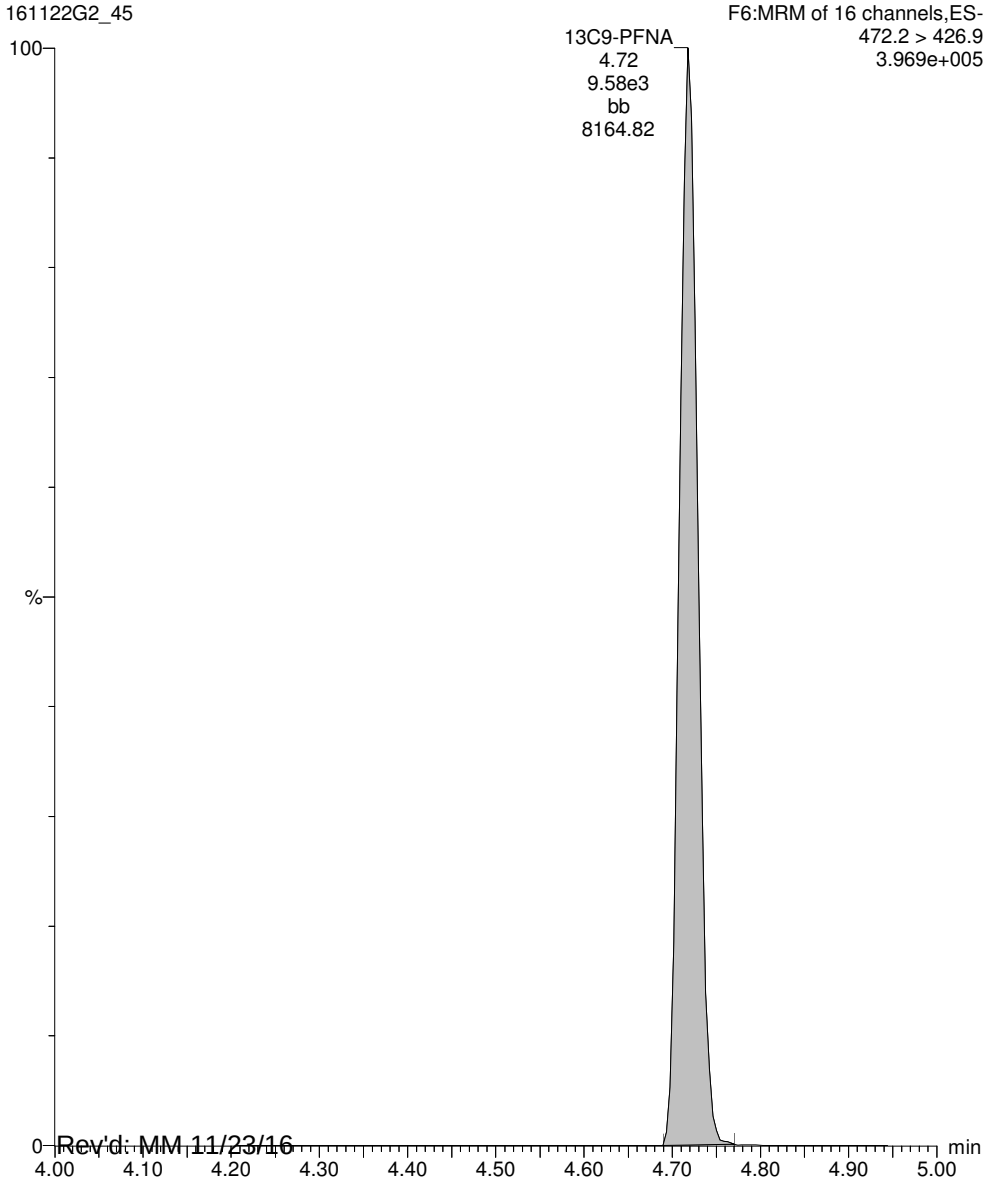
Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-45.qld

Last Altered: Wednesday, November 23, 2016 12:58:33 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 12:58:45 PM Pacific Standard Time

ID: B6K0124-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161122G2_45, Date: 22-Nov-2016, Time: 19:17:09, Instrument: , Lab: , User:

13C9-PFNA



Rev'd: MM 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-42.qld

Last Altered: Wednesday, November 23, 2016 11:38:54 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:39:32 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: B6K0124-BS1 LCS 0.125, Description: LCS, Name: 161122G2_42, Date: 22-Nov-2016, Time: 18:39:18

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	9.372e3	5.931e3		0.125	3.11	88.8	111
2	5	PFHpA	363 > 318.9	1.796e4	1.324e4		0.125	3.99	88.0	110
3	6	PFHxS	398.9 > 79.6	8.120e3	5.242e3		0.125	4.10	90.1	113
4	8	PFOA	413 > 368.7	1.695e4	2.205e4		0.125	4.38	84.6	106
5	10	PFOS	499 >79.9	5.123e3	6.971e3		0.125	4.78	89.7	112
6	11	PFNA	463 > 418.8	1.505e4	1.050e4		0.125	4.72	88.2	110
7	15	13C3-PFPeA	266>221.8	8.006e3	1.964e4	0.448	0.125	2.86	91.1	91.1
8	16	13C3-PFBS	302.0 > 98.8	5.931e3	1.964e4	0.302	0.125	3.11	100	100
9	18	13C4-PFHpA	367.2 > 321.8	1.324e4	1.305e4	1.139	0.125	3.98	89.1	89.1
10	19	18O2-PFHxS	403 > 102.6	5.242e3	1.305e4	0.449	0.125	4.09	89.4	89.4
11	20	13C2-6:2 FTS	429.1 > 408.9	5.040e3	5.913e3	1.073	0.125	4.33	79.4	79.4
12	21	13C2-PFOA	414.9 > 369.7	2.205e4	1.202e4	2.262	0.125	4.38	81.1	81.1
13	22	13C8-PFOS	507.0 > 79.9	6.971e3	7.889e3	0.944	0.125	4.78	93.6	93.6
14	23	13C5-PFNA	468.2 > 422.9	1.050e4	1.201e4	1.082	0.125	4.72	80.8	80.8
15	24	13C2-PFDA	515.1 > 469.9	7.679e3	1.019e4	1.019	0.125	5.02	74.0	74.0
16	25	13C2-8:2 FTS	529.1 > 508.7	3.163e3	5.913e3	0.569	0.125	5.00	94.0	94.0
17	26	13C4-PFBA	217 > 171.8	1.656e4	1.656e4	1.000	0.125	1.90	100	100
18	27	13C2-4:2 FTS	329.2 > 308.9	5.913e3	5.913e3	1.000	0.125	3.38	100	100
19	28	13C5-PFHxA	318.0 > 272.9	1.964e4	1.964e4	1.000	0.125	3.48	100	100
20	29	13C3-PFHxS	401.9 > 79.9	1.305e4	1.305e4	1.000	0.125	4.10	100	100
21	30	13C8-PFOA	421.3 > 376	1.202e4	1.202e4	1.000	0.125	4.38	100	100
22	31	13C4-PFOS	503.0 > 79.9	7.889e3	7.889e3	1.000	0.125	4.78	100	100
23	32	13C9-PFNA	472.2 > 426.9	1.201e4	1.201e4	1.000	0.125	4.72	100	100
24	33	13C6-PFDA	519.1 > 473.7	1.019e4	1.019e4	1.000	0.125	5.02	100	100
25	34	Total PFBS	299 > 79.7		5.242e3		0.125		88.8	
26	35	Total PFHxS	398.9 > 79.6		5.242e3		0.125		90.1	
27	36	Total PFOA	413 > 368.7		2.205e4		0.125		84.6	
28	37	Total PFOS	499 > 79.9		6.971e3		0.125		91.4	

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-42.qld

Last Altered: Wednesday, November 23, 2016 11:38:54 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:39:32 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: B6K0124-BS1 LCS 0.125, Description: LCS, Name: 161122G2_42, Date: 22-Nov-2016, Time: 18:39:18

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	3	PFBS	299 > 79.7	3.11	9372.376	5930.602	88.8

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	398.9 > 79.6	4.10	8119.572	5242.404	90.1

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	413 > 368.7	4.38	16946.016	22046.008	84.6

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	499 >79.9	4.78	5123.127	6970.836	89.7
2	37	Total PFOS	499 >79.9	4.70	10.611	6970.836	1.8

Vista Analytical Laboratory Q1

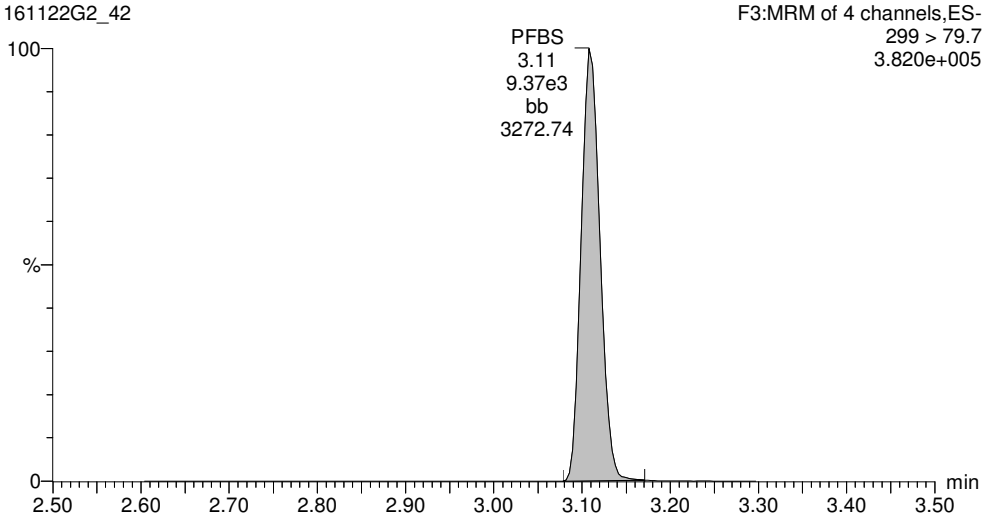
Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-42.qld

Last Altered: Wednesday, November 23, 2016 11:38:54 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:39:32 AM Pacific Standard Time

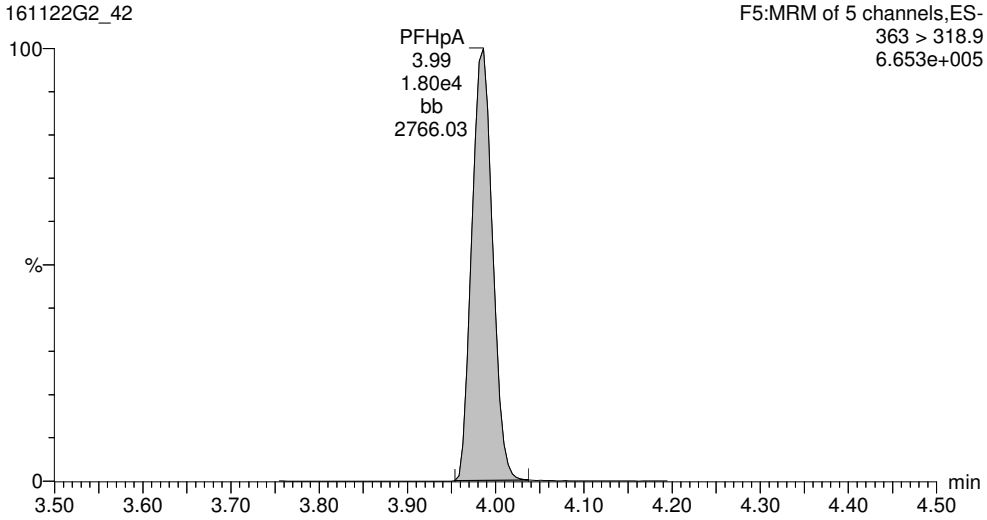
Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: B6K0124-BS1 LCS 0.125, Description: LCS, Name: 161122G2_42, Date: 22-Nov-2016, Time: 18:39:18, Instrument: , Lab: , User:

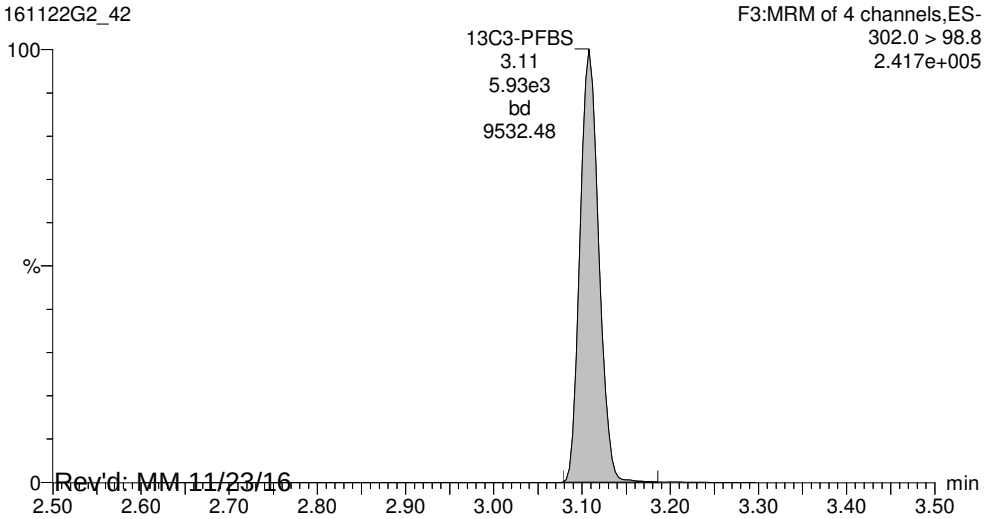
Total PFBS



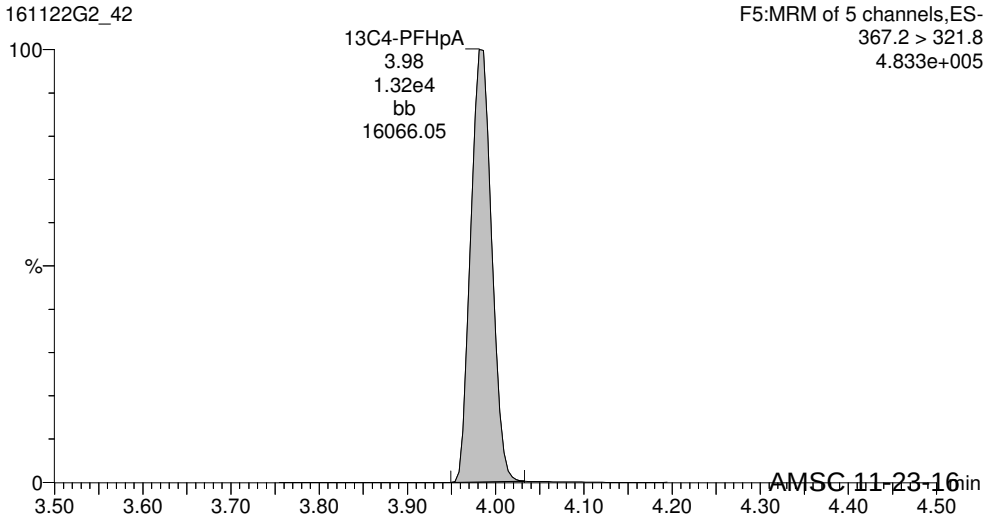
PFHpA



13C3-PFBS



13C4-PFHpA



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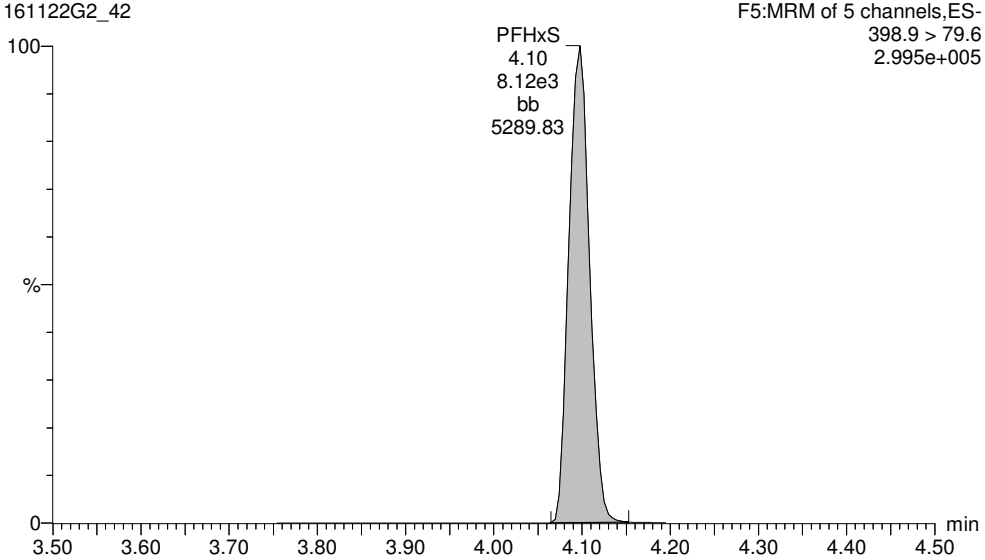
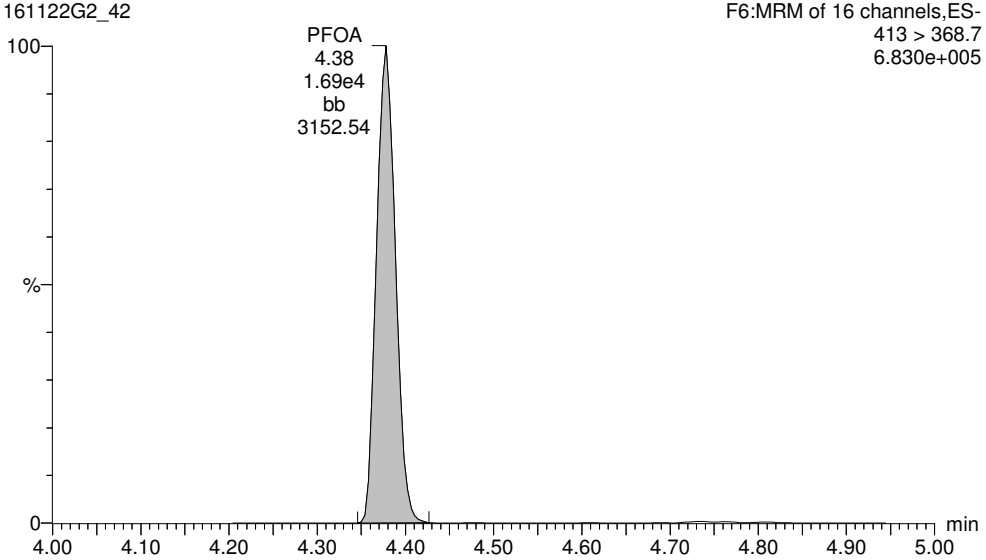
Last Altered: Wednesday, November 23, 2016 11:38:54 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:39:32 AM Pacific Standard Time

ID: B6K0124-BS1 LCS 0.125, Description: LCS, Name: 161122G2_42, Date: 22-Nov-2016, Time: 18:39:18, Instrument: , Lab: , User:

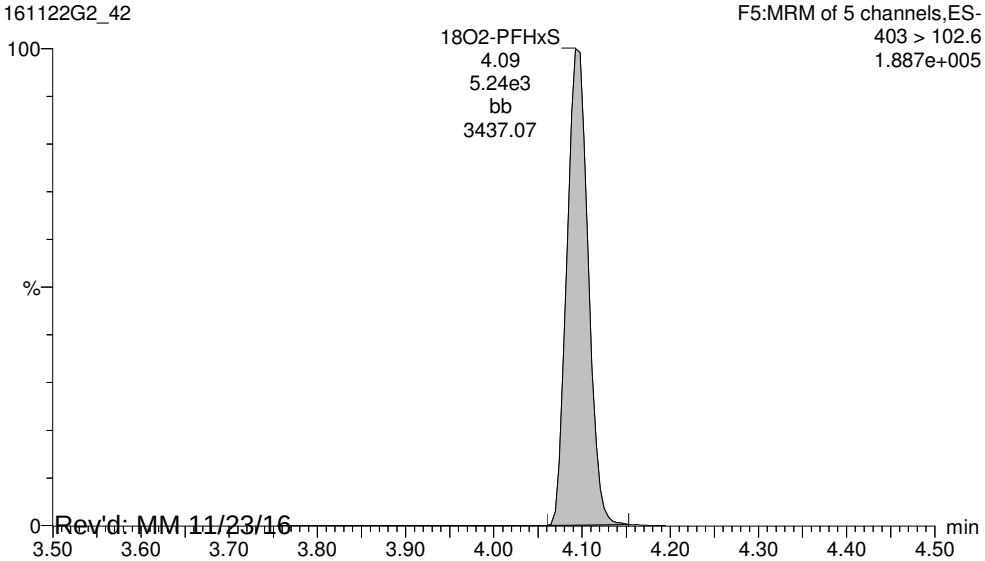
Total PFHxS



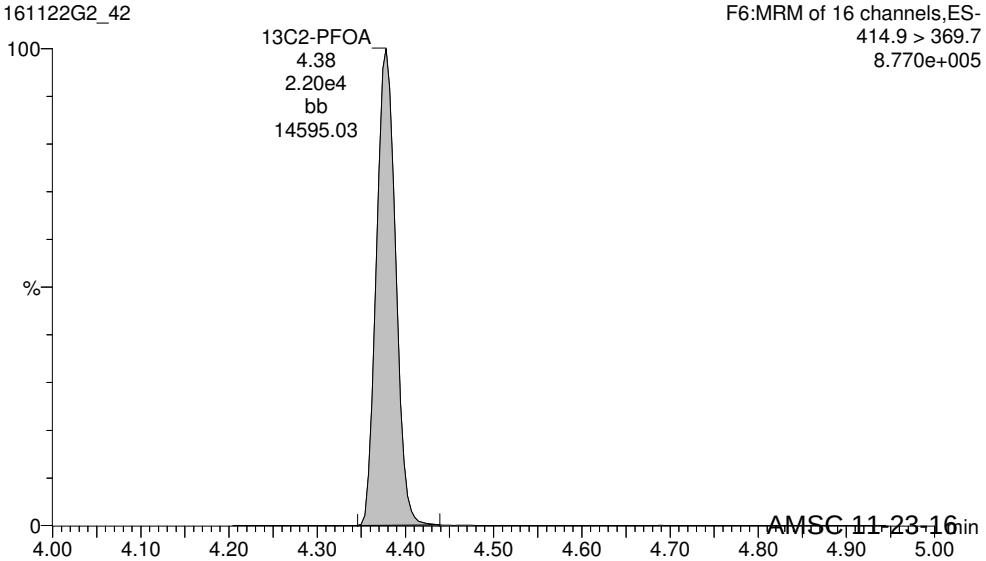
Total PFOA



18O2-PFHxS



13C2-PFOA



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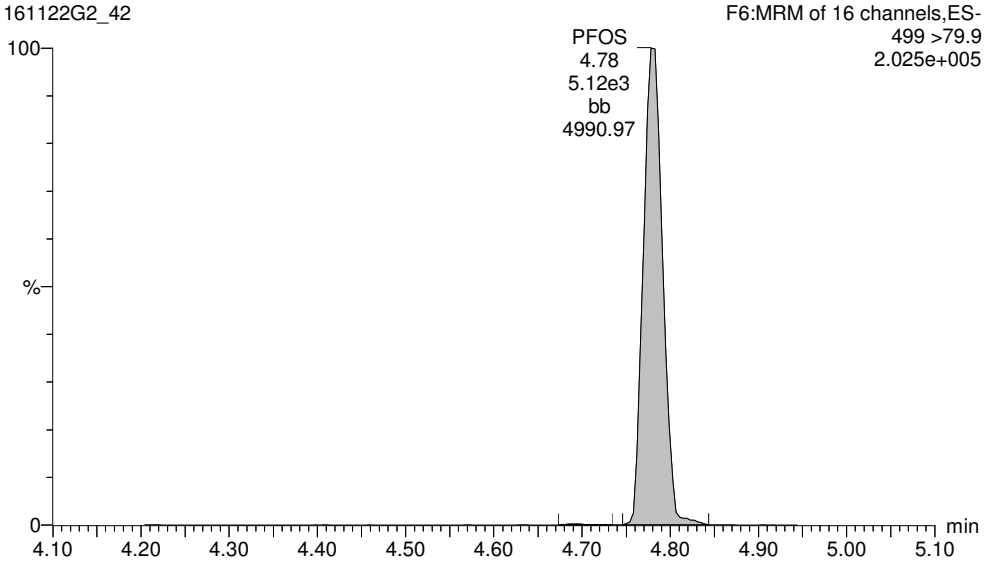
Printed: Wednesday, November 23, 2016 11:39:32 AM Pacific Standard Time

ID: B6K0124-BS1 LCS 0.125, Description: LCS, Name: 161122G2_42, Date: 22-Nov-2016, Time: 18:39:18, Instrument: , Lab: , User:

Total PFOS



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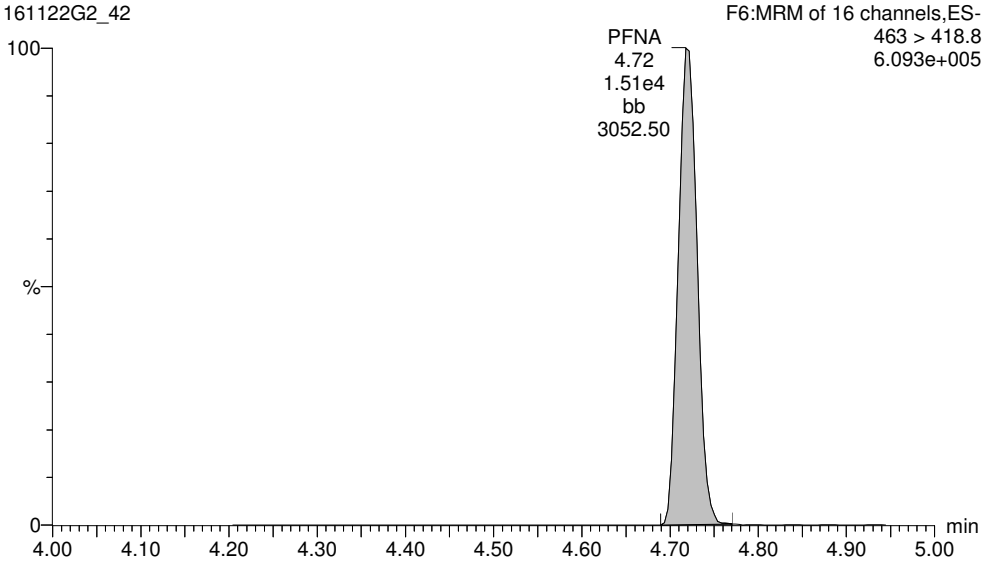
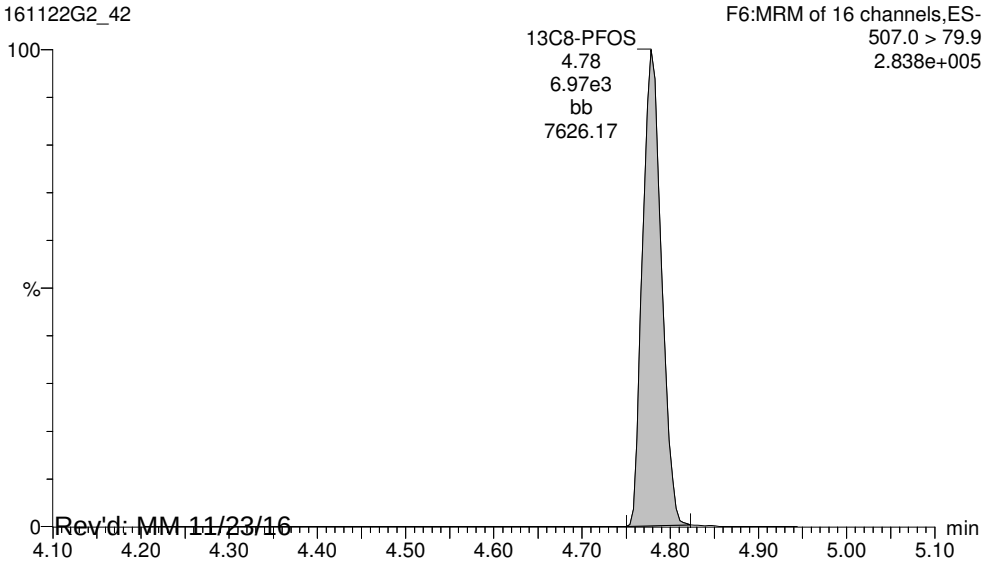
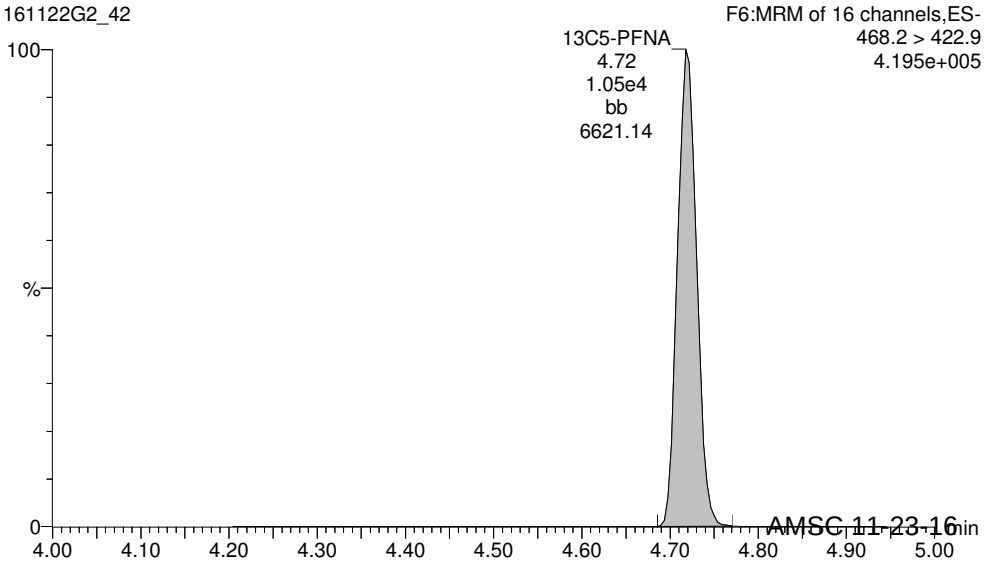


13C8-PFOS



13C5-PFNA



Rev'd: MM 11/23/16 AMSC 11-23-16

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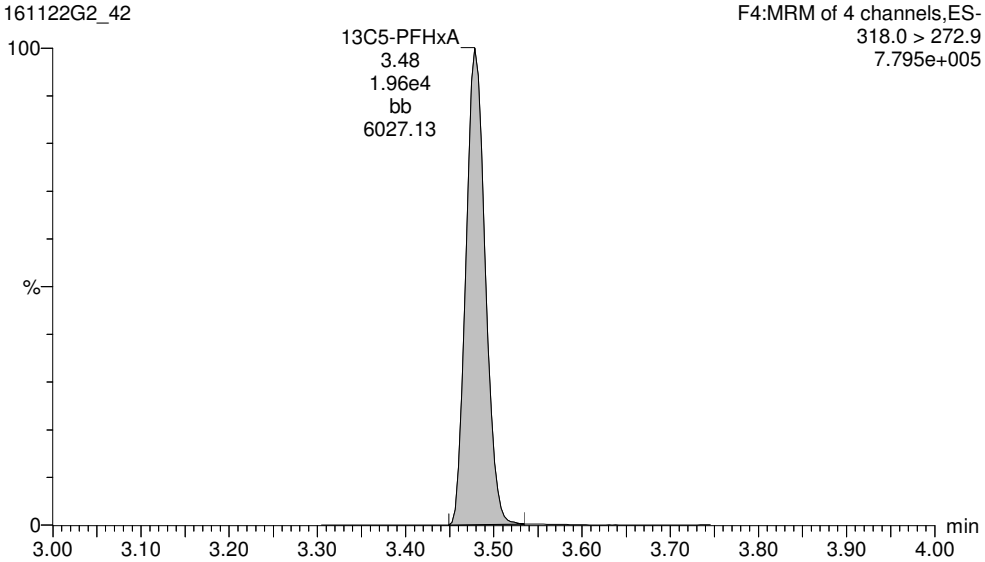
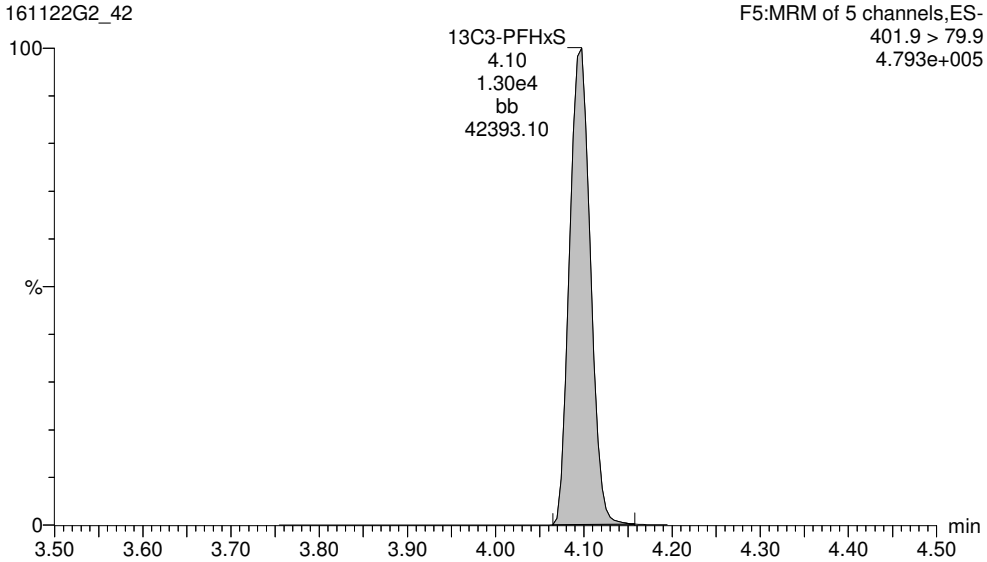
Last Altered: Wednesday, November 23, 2016 11:38:54 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:39:32 AM Pacific Standard Time

ID: B6K0124-BS1 LCS 0.125, Description: LCS, Name: 161122G2_42, Date: 22-Nov-2016, Time: 18:39:18, Instrument: , Lab: , User:

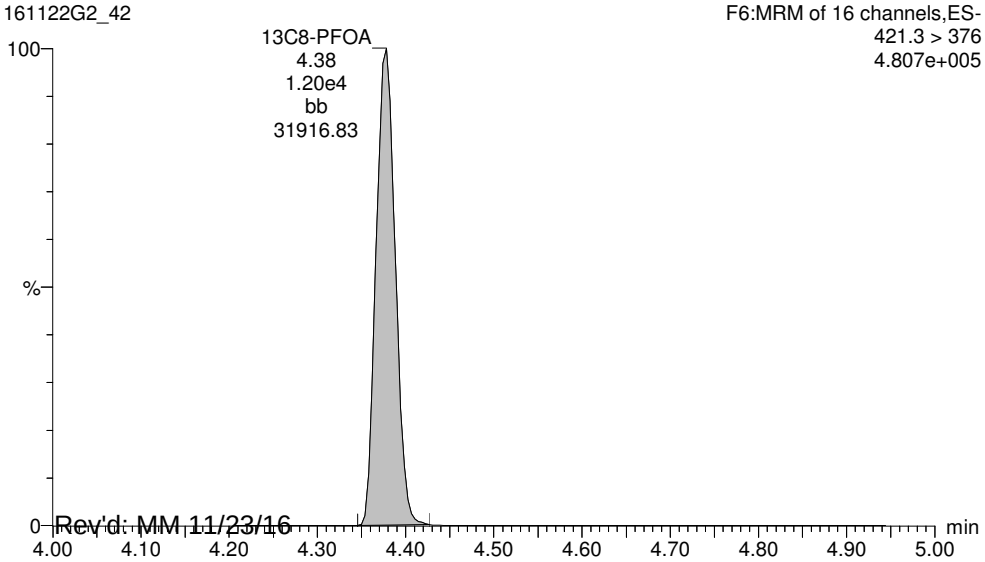
13C5-PFHxA



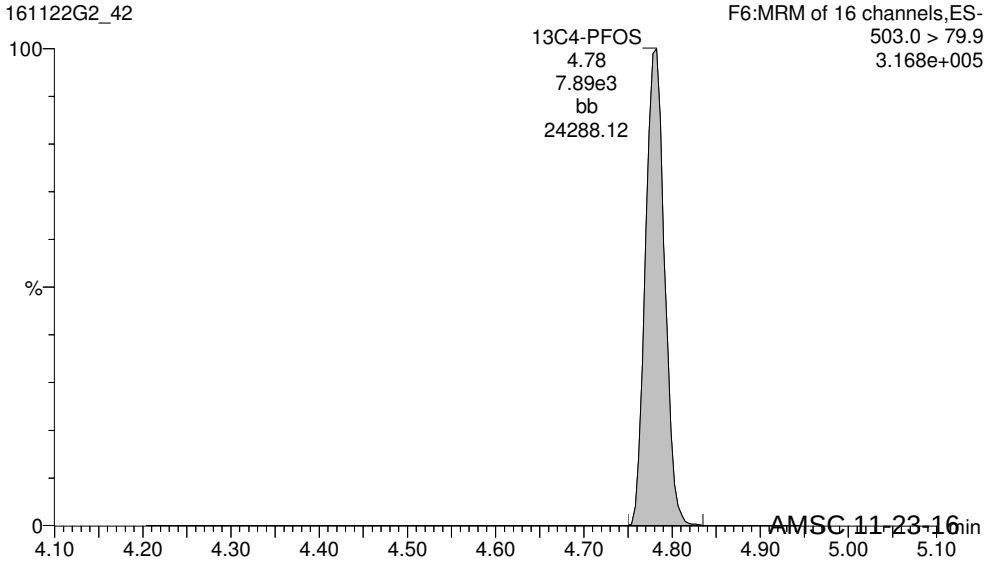
13C3-PFHxS



13C8-PFOA



13C4-PFOS



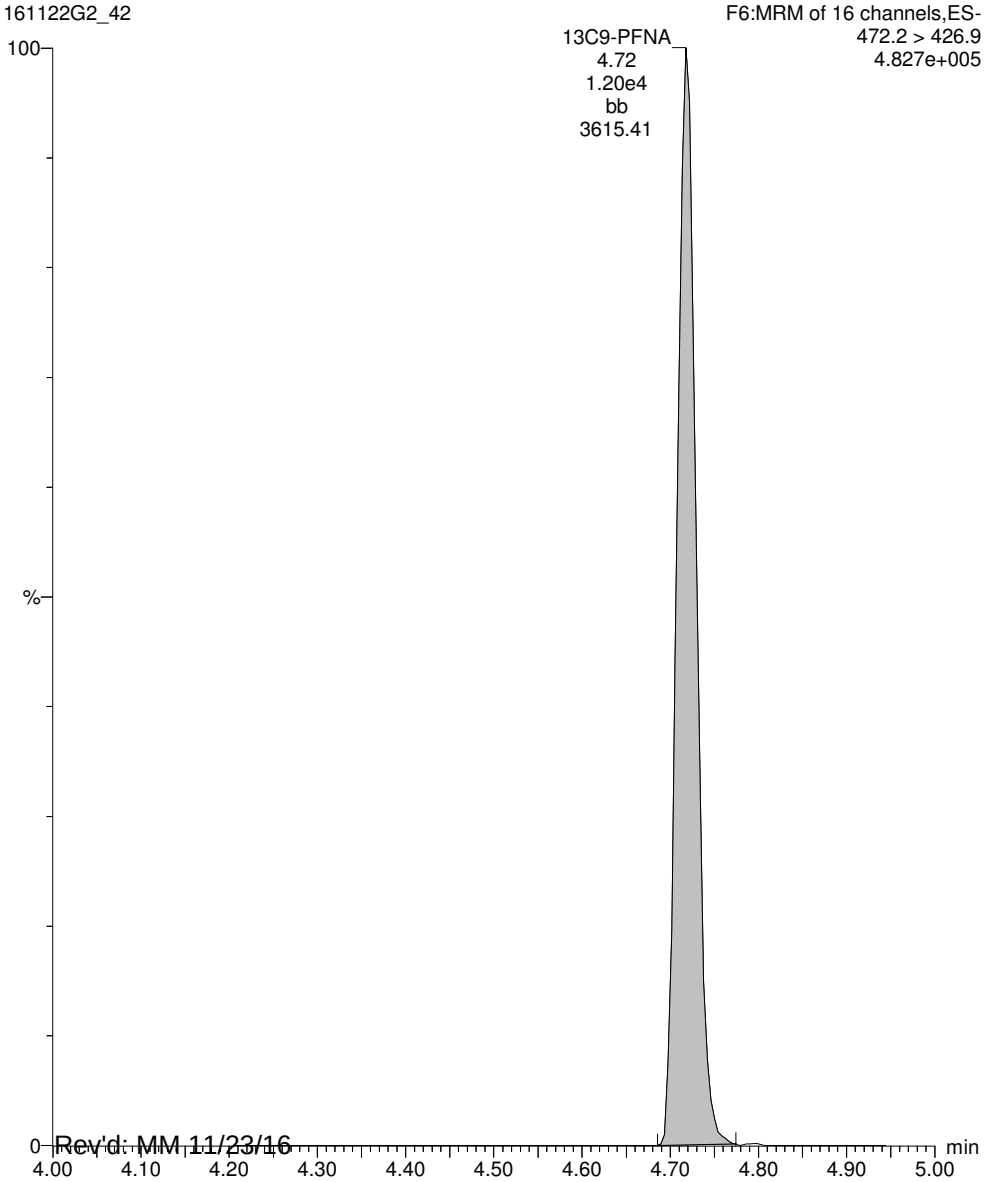
Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-42.qld

Last Altered: Wednesday, November 23, 2016 11:38:54 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:39:32 AM Pacific Standard Time

ID: B6K0124-BS1 LCS 0.125, Description: LCS, Name: 161122G2_42, Date: 22-Nov-2016, Time: 18:39:18, Instrument: , Lab: , User:

13C9-PFNA



Rev'd: MM 11/23/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-49.qld

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Printed: Wednesday, November 23, 2016 11:22:27 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601420-01 FTWG-MW-02-1116 0.10754, Description: FTWG-MW-02-1116, Name: 161122G2_49, Date: 22-Nov-2016, Time: 20:07:33

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7	2.995e2	6.074e3		0.108	3.09	3.95	
2	5	PFHpA	363 > 318.9	1.231e3	1.224e4		0.108	3.98	8.36	
3	6	PFHxS	398.9 > 79.6	8.743e2	6.780e3		0.108	4.10	8.85	
4	8	PFOA	413 > 368.7	1.335e4	2.186e4		0.108	4.38	78.0	
5	10	PFOS	499 >79.9	1.010e3	8.131e3		0.108	4.78	19.1	
6	11	PFNA	463 > 418.8	4.307e2	1.162e4		0.108	4.72	3.59	
7	15	13C3-PFPeA	266>221.8	6.636e3	1.760e4	0.448	0.108	2.83	97.9	84.2
8	16	13C3-PFBS	302.0 > 98.8	6.074e3	1.760e4	0.302	0.108	3.09	133	114
9	18	13C4-PFHpA	367.2 > 321.8	1.224e4	1.592e4	1.139	0.108	3.98	78.5	67.5
10	19	18O2-PFHxS	403 > 102.6	6.780e3	1.592e4	0.449	0.108	4.09	110	94.8
11	20	13C2-6:2 FTS	429.1 > 408.9	8.341e3	7.404e3	1.073	0.108	4.33	122	105
12	21	13C2-PFOA	414.9 > 369.7	2.186e4	1.162e4	2.262	0.108	4.38	96.7	83.2
13	22	13C8-PFOS	507.0 > 79.9	8.131e3	1.101e4	0.944	0.108	4.78	91.0	78.3
14	23	13C5-PFNA	468.2 > 422.9	1.162e4	1.413e4	1.082	0.108	4.72	88.3	76.0
15	24	13C2-PFDA	515.1 > 469.9	7.365e3	9.975e3	1.019	0.108	5.02	84.2	72.4
16	25	13C2-8:2 FTS	529.1 > 508.7	4.659e3	7.404e3	0.569	0.108	5.00	129	111
17	26	13C4-PFBA	217 > 171.8	1.497e4	1.497e4	1.000	0.108	1.86	116	100
18	27	13C2-4:2 FTS	329.2 > 308.9	7.404e3	7.404e3	1.000	0.108	3.36	116	100
19	28	13C5-PFHxA	318.0 > 272.9	1.760e4	1.760e4	1.000	0.108	3.46	116	100
20	29	13C3-PFHxS	401.9 > 79.9	1.592e4	1.592e4	1.000	0.108	4.10	116	100
21	30	13C8-PFOA	421.3 > 376	1.162e4	1.162e4	1.000	0.108	4.38	116	100
22	31	13C4-PFOS	503.0 > 79.9	1.101e4	1.101e4	1.000	0.108	4.78	116	100
23	32	13C9-PFNA	472.2 > 426.9	1.413e4	1.413e4	1.000	0.108	4.72	116	100
24	33	13C6-PFDA	519.1 > 473.7	9.975e3	9.975e3	1.000	0.108	5.02	116	100
25	34	Total PFBS	299 > 79.7		6.780e3		0.108		7.94	
26	35	Total PFHxS	398.9 > 79.6		6.780e3		0.108		11.0	
27	36	Total PFOA	413 > 368.7		2.186e4		0.108		90.3	
28	37	Total PFOS	499 > 79.9		8.131e3		0.108		40.1	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-49.qld

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Printed: Wednesday, November 23, 2016 11:22:27 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601420-01 FTWG-MW-02-1116 0.10754, Description: FTWG-MW-02-1116, Name: 161122G2_49, Date: 22-Nov-2016, Time: 20:07:33

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	34	Total PFBS	299 > 79.7	3.01	40.950	6779.996	1.1
2	34	Total PFBS	299 > 79.7	2.98	23.444	6779.996	1.0
3	34	Total PFBS	299 > 79.7	2.94	12.915	6779.996	0.9
4	34	Total PFBS	299 > 79.7	2.92	23.635	6779.996	1.0
5	3	PFBS	299 > 79.7	3.09	299.532	6073.823	4.0

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	398.9 > 79.6	4.10	874.251	6779.996	8.9
2	35	Total PFHxS	398.9 > 79.6	4.04	7.934	6779.996	0.2
3	35	Total PFHxS	398.9 > 79.6	4.00	106.591	6779.996	1.2
4	35	Total PFHxS	398.9 > 79.6	3.97	55.791	6779.996	0.7

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	36	Total PFOA	413 > 368.7	4.29	2245.526	21862.822	12.3
2	8	PFOA	413 > 368.7	4.38	13354.808	21862.822	78.0

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	499 >79.9	4.78	1009.828	8130.825	19.1
2	37	Total PFOS	499 >79.9	4.69	274.795	8130.825	6.6
3	37	Total PFOS	499 >79.9	4.66	733.157	8130.825	14.4

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-49.qld

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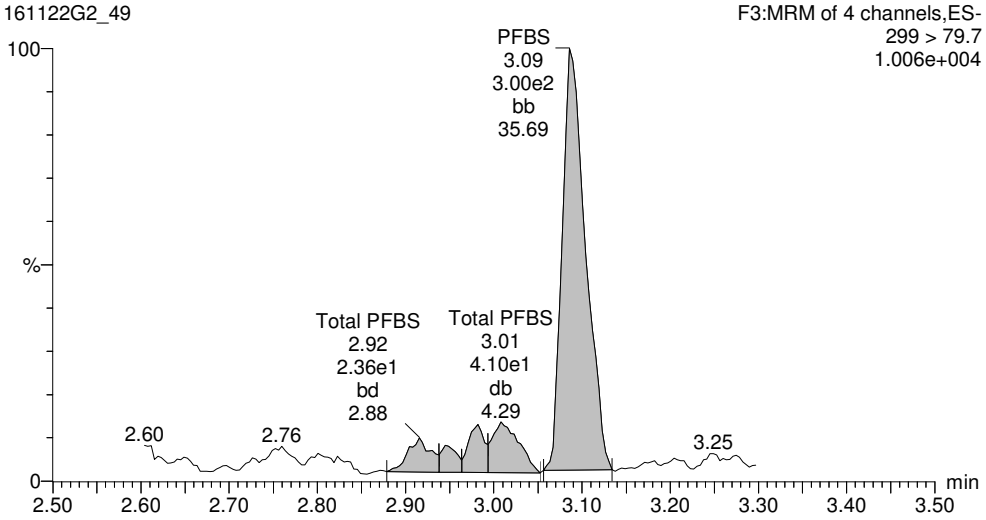
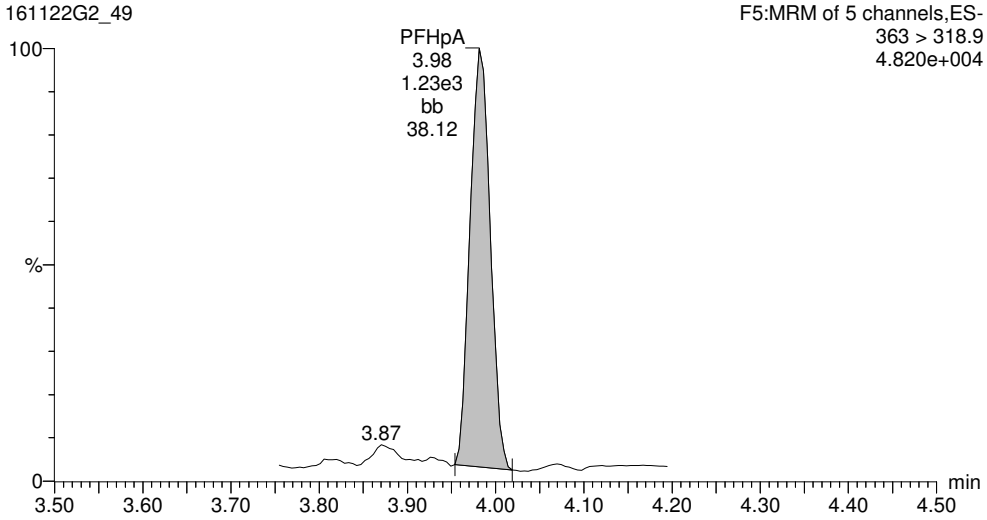
ID: 1601420-01 FTWG-MW-02-1116 0.10754, Description: FTWG-MW-02-1116, Name: 161122G2_49, Date: 22-Nov-2016, Time: 20:07:33, Instrument: , Lab: , User:

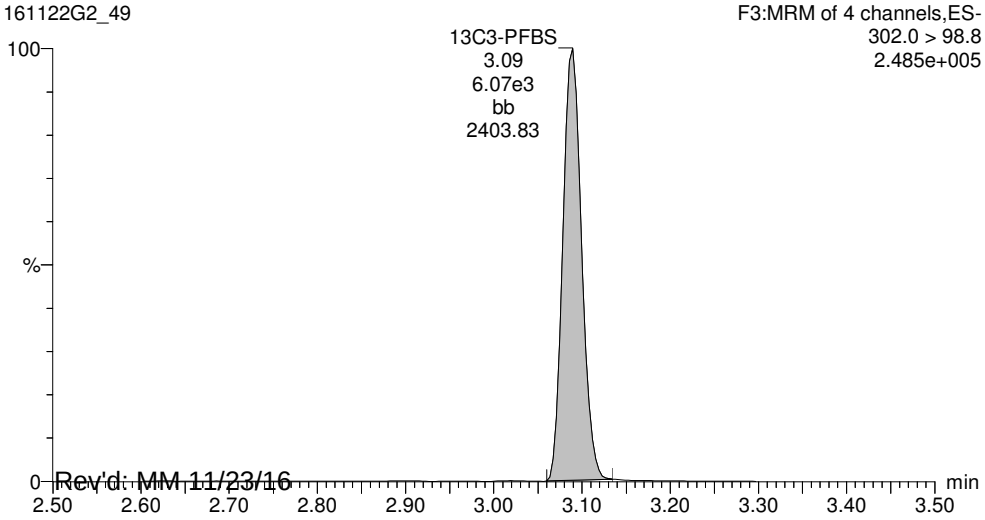
Total PFBS



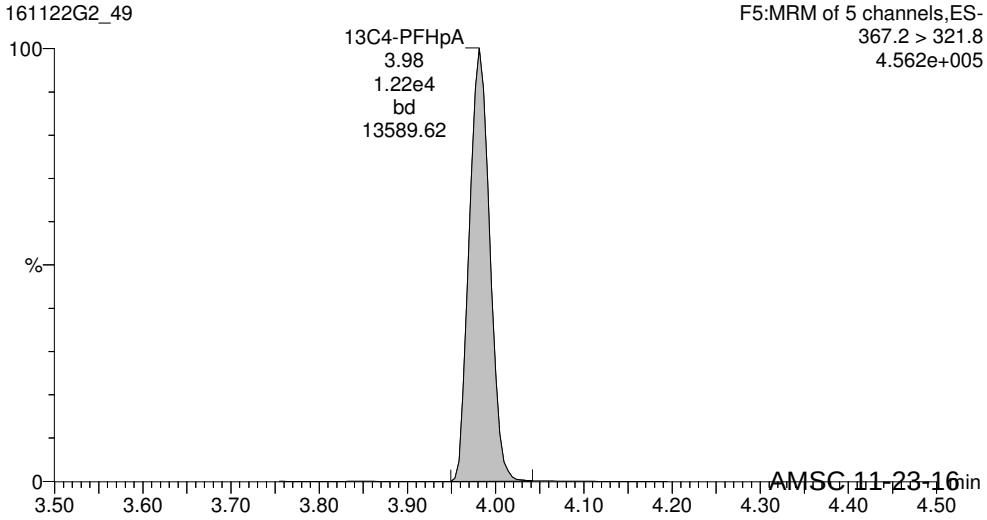
PFHpA



13C3-PFBS



13C4-PFHpA



Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-49.qld

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Printed: Wednesday, November 23, 2016 11:22:27 AM Pacific Standard Time

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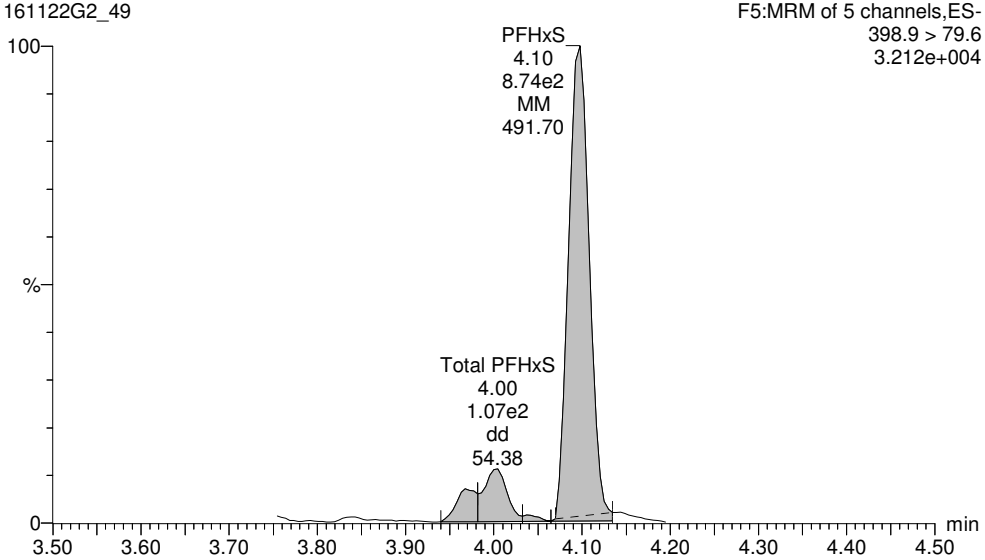
Total PFHxS



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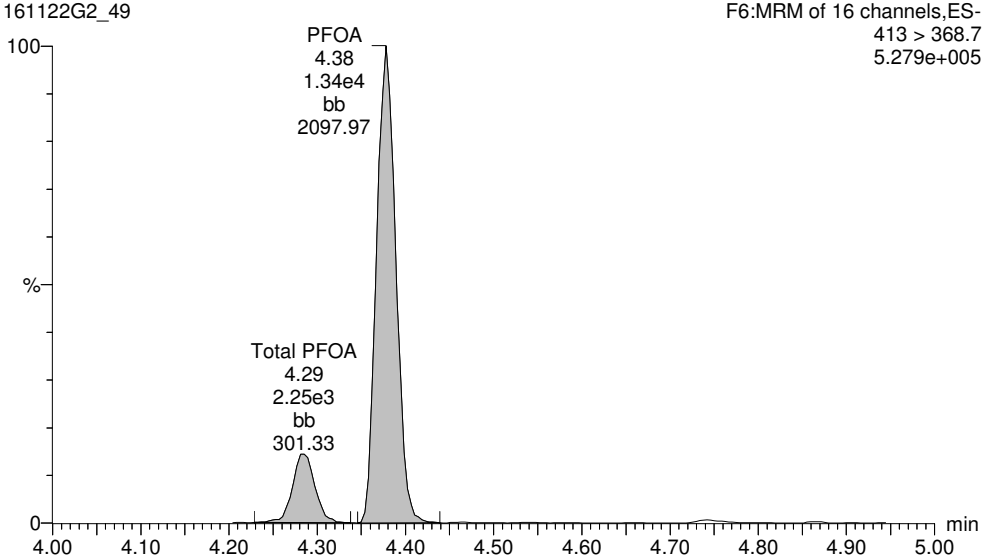
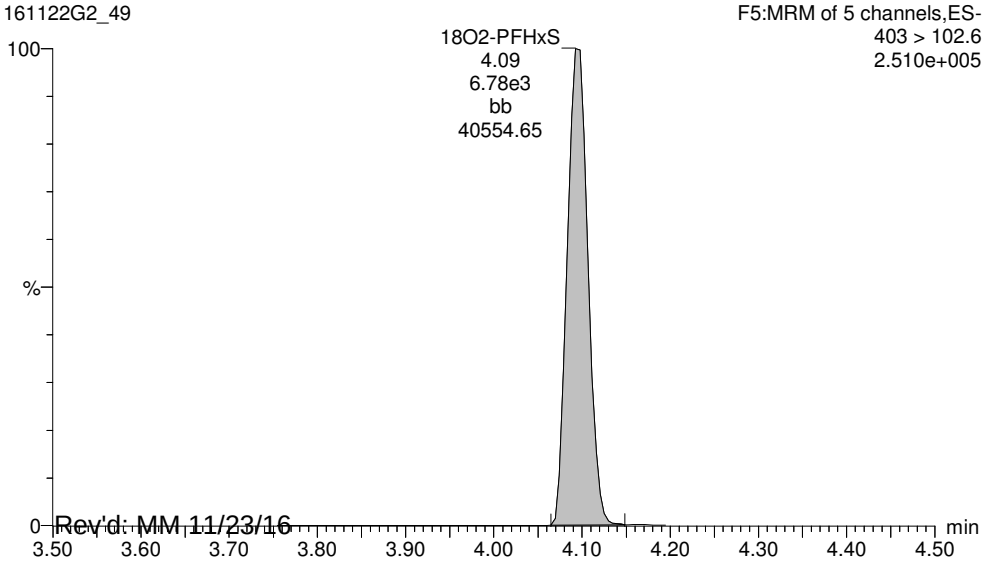


18O2-PFHxS



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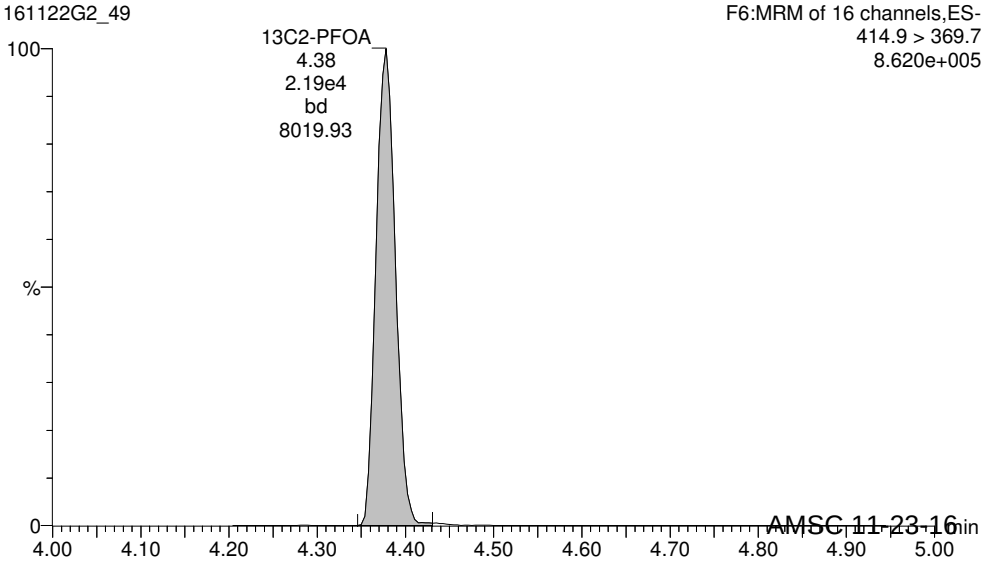

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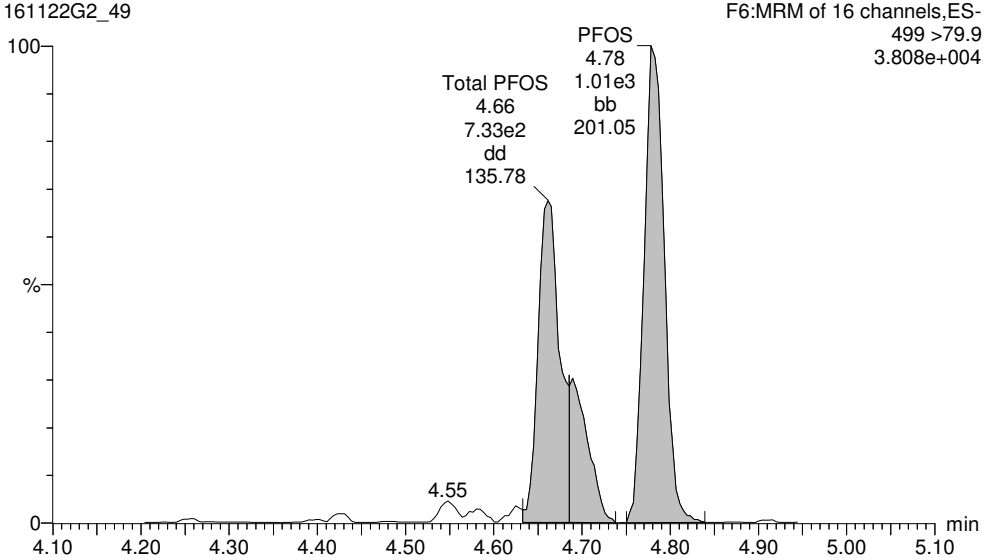
Total PFOS



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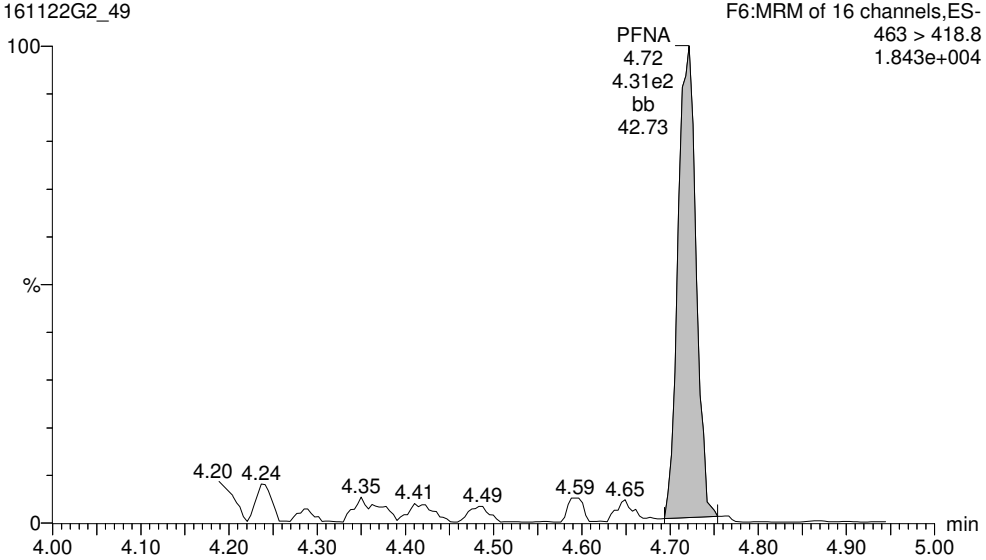
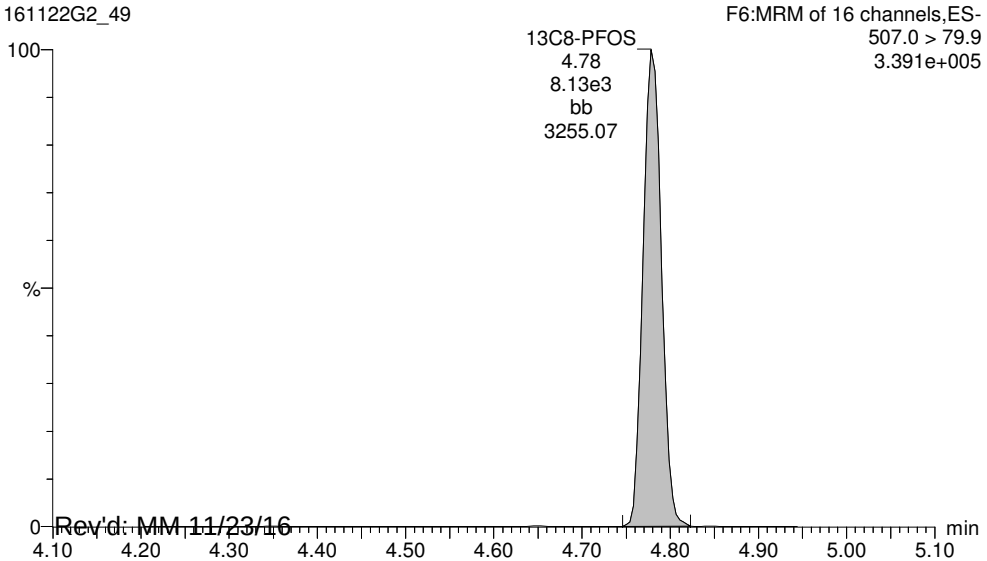


13C8-PFOS



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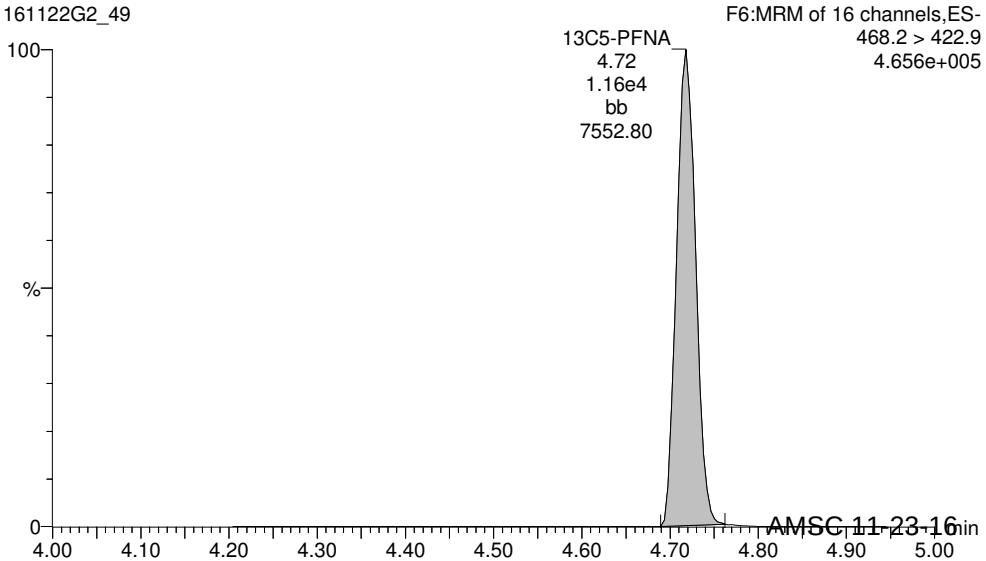

Rev'd: MM 11/23/16 AMSC 11-23-16

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Printed: Wednesday, November 23, 2016 11:22:27 AM Pacific Standard Time

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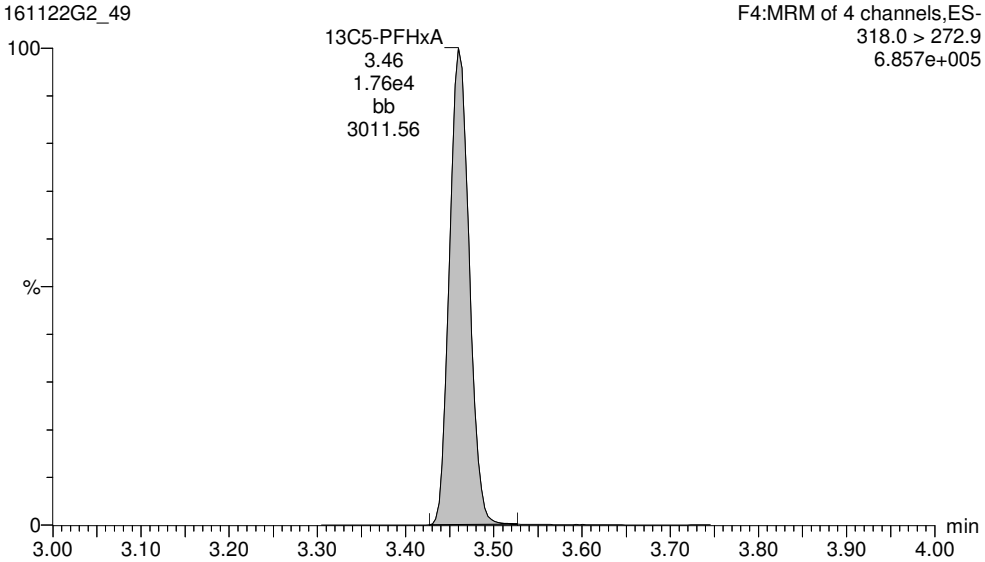
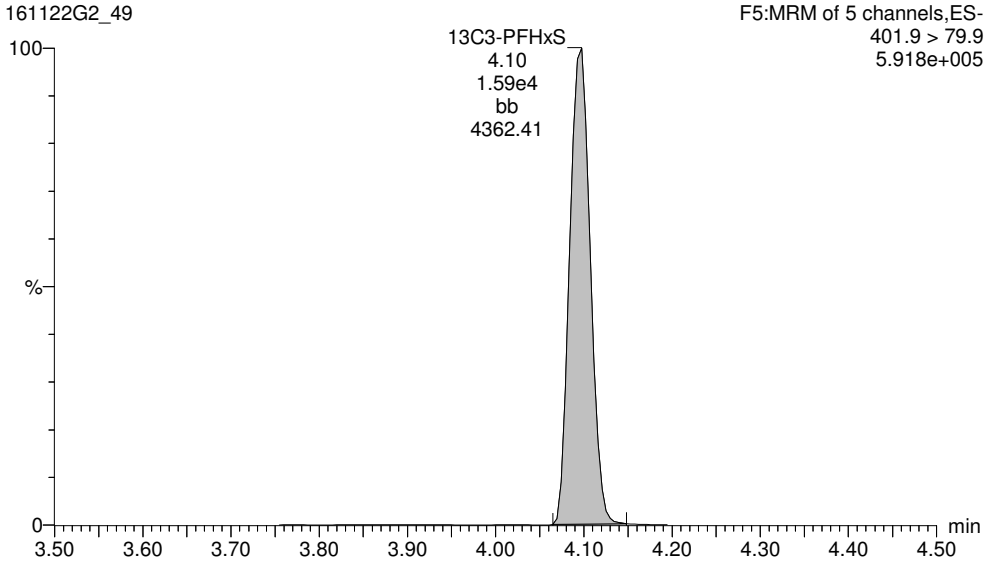
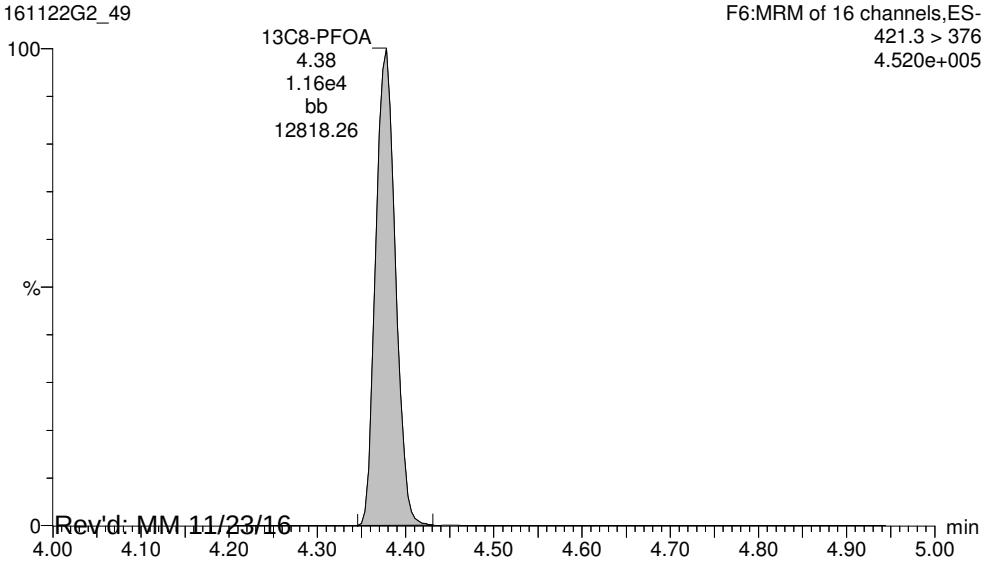
13C5-PFHxA



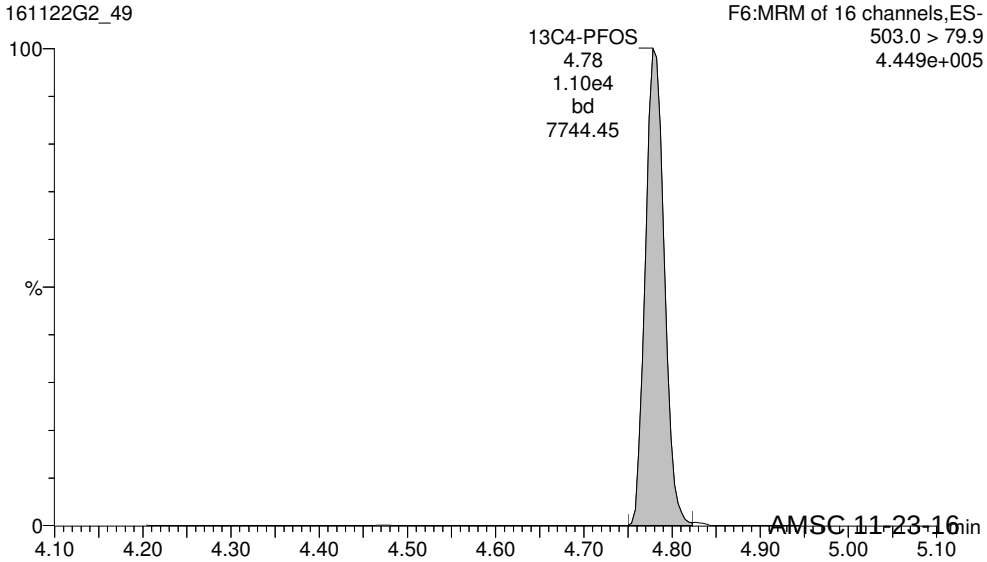
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/23/16 AMSC 11-23-16

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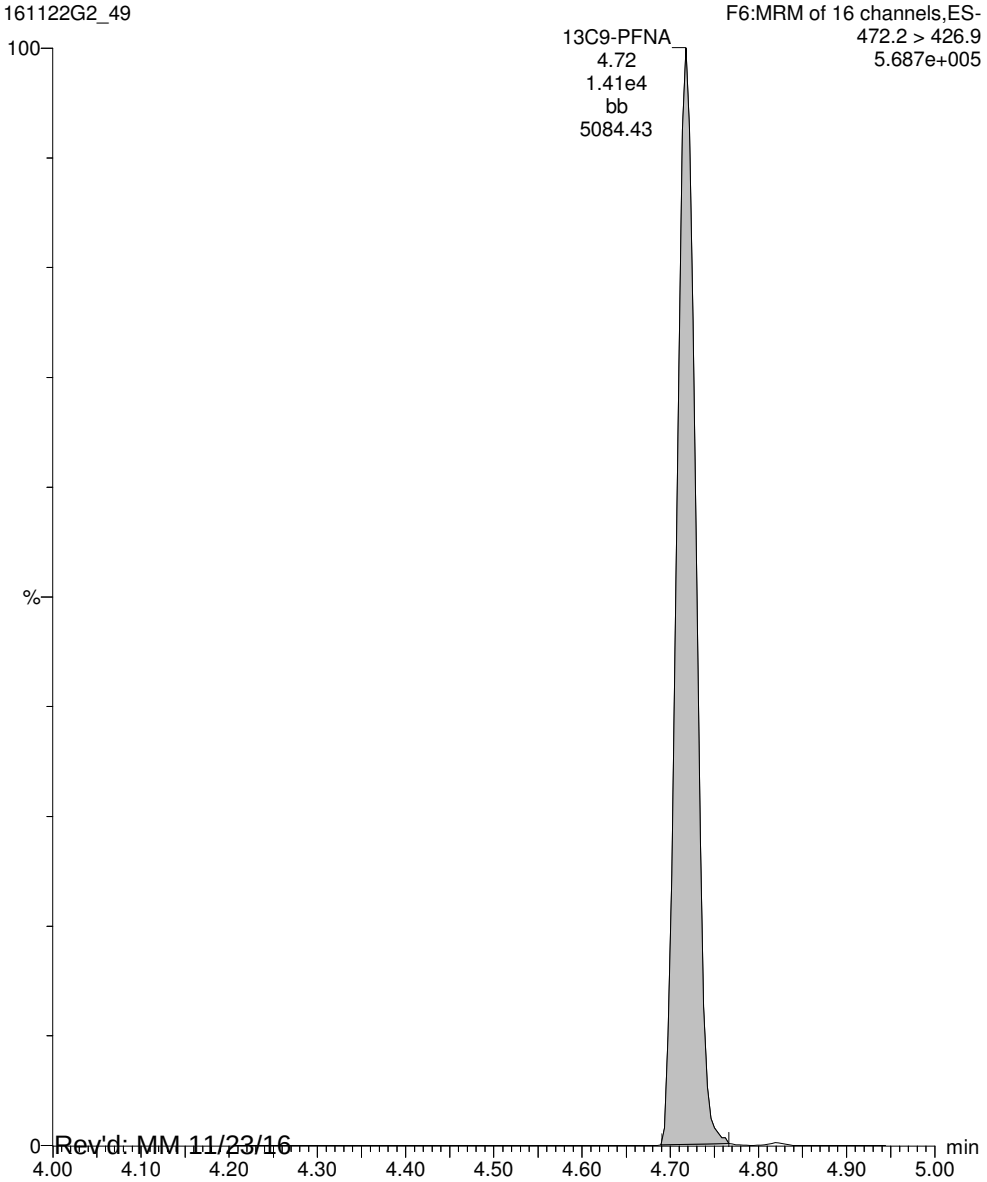
13C9-PFNA



Rev'd: MM 11/23/16

AMSC 11-23-16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-50.qld

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Printed: Wednesday, November 23, 2016 12:54:29 PM Pacific Standard Time

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ID: 1601420-02 OC-EB110816 0.13201, Description: OC-EB110816, Name: 161122G2_50, Date: 22-Nov-2016, Time: 20:20:10

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		5.834e3		0.132			
2	5	PFHpA	363 > 318.9	2.133e1	1.357e4		0.132	3.99	0.771	
3	6	PFHxS	398.9 > 79.6	4.980e1	6.151e3		0.132	4.10	0.563	
4	8	PFOA	413 > 368.7	2.751e2	2.383e4		0.132	4.38	0.442	
5	10	PFOS	499 >79.9		8.121e3		0.132			
6	11	PFNA	463 > 418.8		1.154e4		0.132			
7	15	13C3-PFPeA	266>221.8	8.303e3	1.943e4	0.448	0.132	2.87	90.4	95.5
8	16	13C3-PFBS	302.0 > 98.8	5.834e3	1.943e4	0.302	0.132	3.11	94.1	99.4
9	18	13C4-PFHpA	367.2 > 321.8	1.357e4	1.433e4	1.139	0.132	3.99	78.7	83.2
10	19	18O2-PFHxS	403 > 102.6	6.151e3	1.433e4	0.449	0.132	4.10	90.4	95.5
11	20	13C2-6:2 FTS	429.1 > 408.9	4.364e3	5.618e3	1.073	0.132	4.33	68.5	72.4
12	21	13C2-PFOA	414.9 > 369.7	2.383e4	1.277e4	2.262	0.132	4.38	78.2	82.5
13	22	13C8-PFOS	507.0 > 79.9	8.121e3	9.351e3	0.944	0.132	4.78	87.1	92.0
14	23	13C5-PFNA	468.2 > 422.9	1.154e4	1.277e4	1.082	0.132	4.72	79.1	83.5
15	24	13C2-PFDA	515.1 > 469.9	9.124e3	1.134e4	1.019	0.132	5.02	74.7	78.9
16	25	13C2-8:2 FTS	529.1 > 508.7	4.615e3	5.618e3	0.569	0.132	4.99	137	144
17	26	13C4-PFBA	217 > 171.8	1.741e4	1.741e4	1.000	0.132	1.90	94.7	100
18	27	13C2-4:2 FTS	329.2 > 308.9	5.618e3	5.618e3	1.000	0.132	3.38	94.7	100
19	28	13C5-PFHxA	318.0 > 272.9	1.943e4	1.943e4	1.000	0.132	3.48	94.7	100
20	29	13C3-PFHxS	401.9 > 79.9	1.433e4	1.433e4	1.000	0.132	4.10	94.7	100
21	30	13C8-PFOA	421.3 > 376	1.277e4	1.277e4	1.000	0.132	4.38	94.7	100
22	31	13C4-PFOS	503.0 > 79.9	9.351e3	9.351e3	1.000	0.132	4.78	94.7	100
23	32	13C9-PFNA	472.2 > 426.9	1.277e4	1.277e4	1.000	0.132	4.72	94.7	100
24	33	13C6-PFDA	519.1 > 473.7	1.134e4	1.134e4	1.000	0.132	5.02	94.7	100
25	34	Total PFBS	299 > 79.7		6.151e3		0.132			
26	35	Total PFHxS	398.9 > 79.6		6.151e3		0.132		0.563	
27	36	Total PFOA	413 > 368.7		2.383e4		0.132		0.442	
28	37	Total PFOS	499 > 79.9		8.121e3		0.132		1.75	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-50.qld

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ID: 1601420-02 OC-EB110816 0.13201, Description: OC-EB110816, Name: 161122G2_50, Date: 22-Nov-2016, Time: 20:20:10

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	398.9 > 79.6	4.10	49.796	6150.883	0.6

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	36	Total PFOA	413 > 368.7	4.31	7.060	23833.754	
2	8	PFOA	413 > 368.7	4.38	275.110	23833.754	0.4

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	37	Total PFOS	499 >79.9	4.69	17.576	8120.717	1.8

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-50.qld

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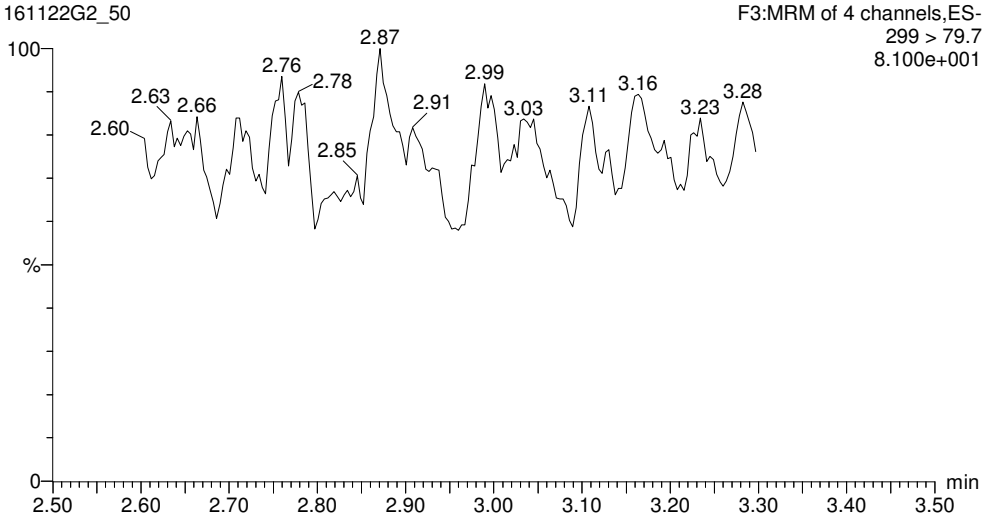
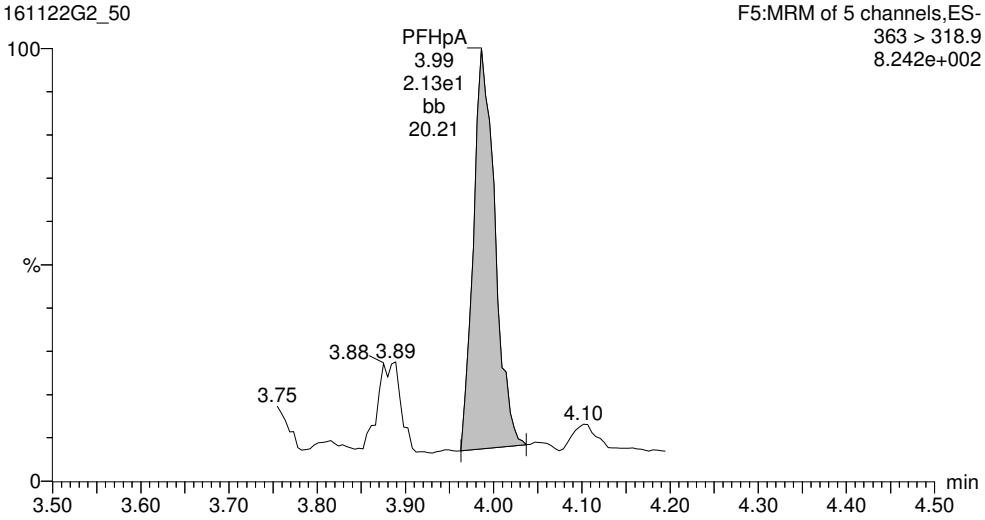
ID: 1601420-02 OC-EB110816 0.13201, Description: OC-EB110816, Name: 161122G2_50, Date: 22-Nov-2016, Time: 20:20:10, Instrument: , Lab: , User:

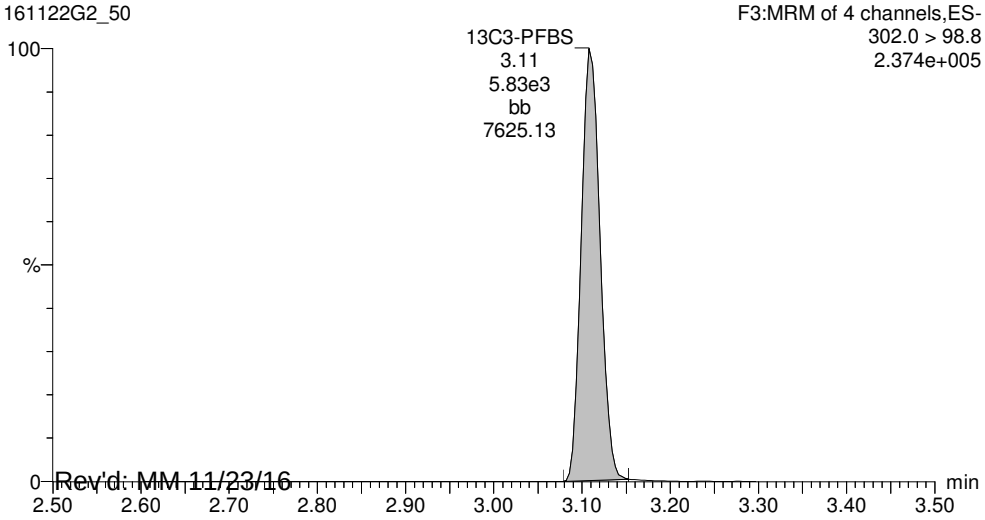
Total PFBS



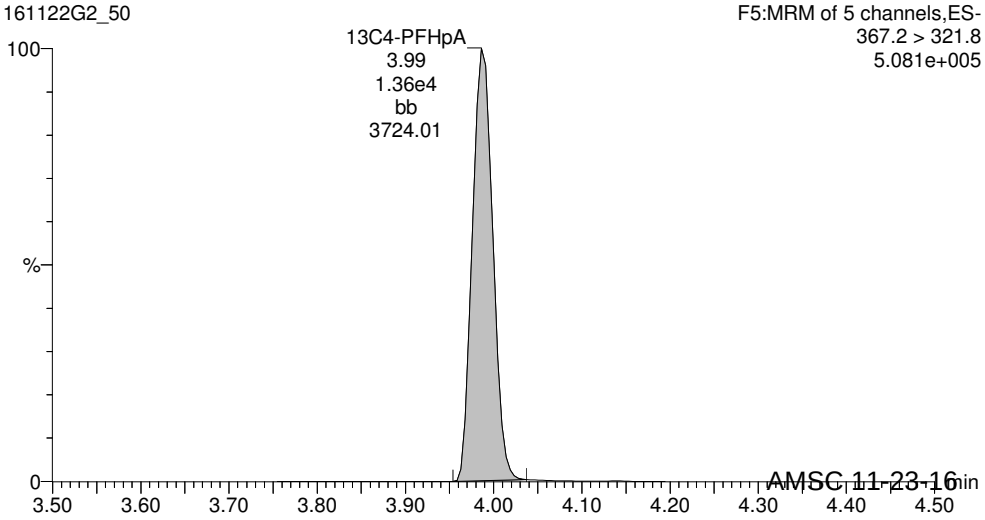
PFHpA



13C3-PFBS



13C4-PFHpA



Rev'd: MM 11/23/16 AMSC 11-23-16

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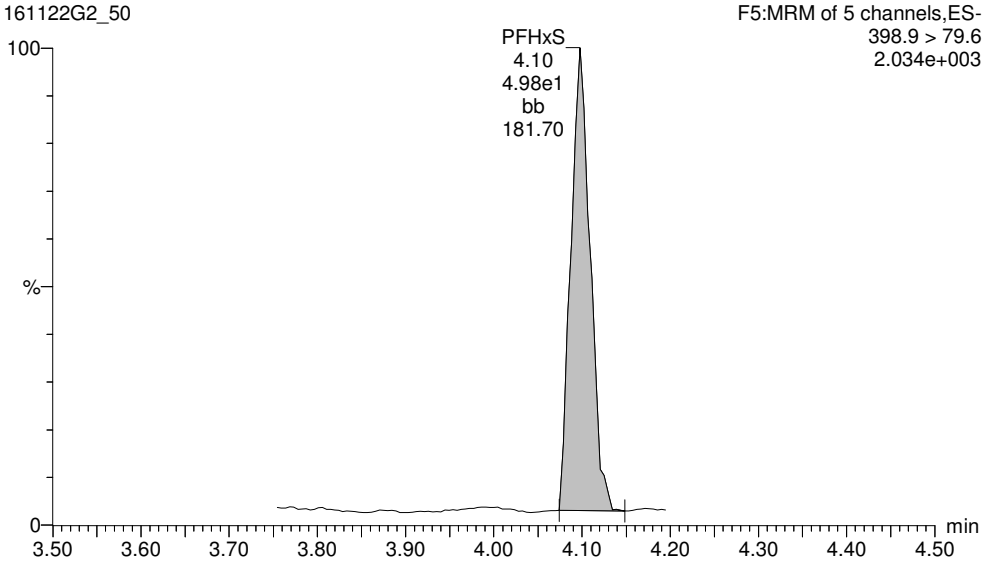
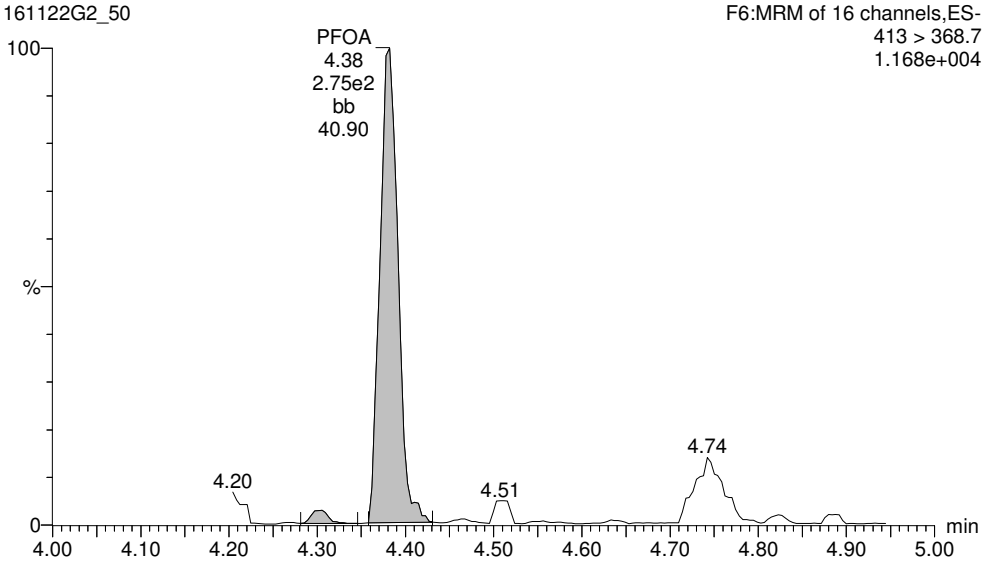
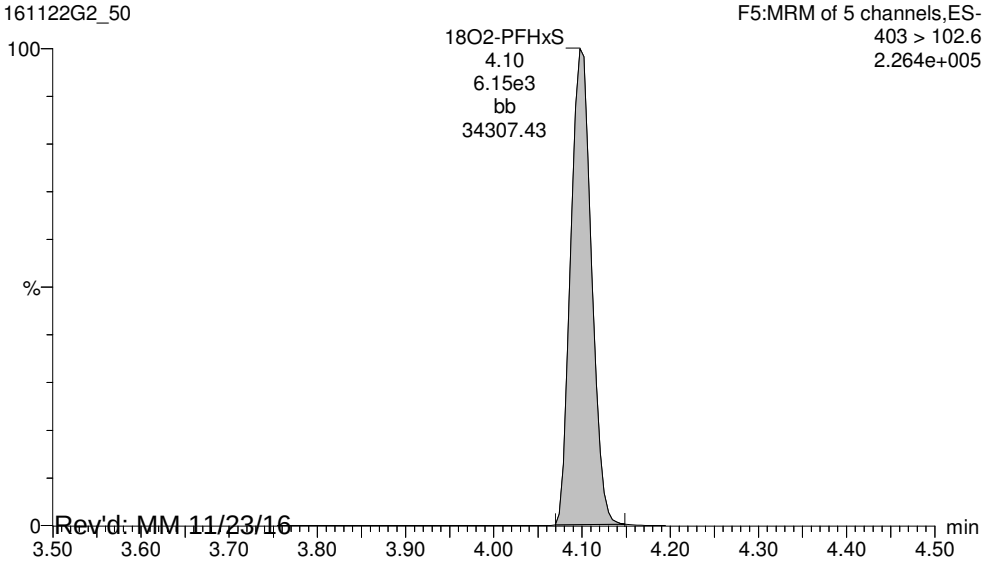
Total PFHxS



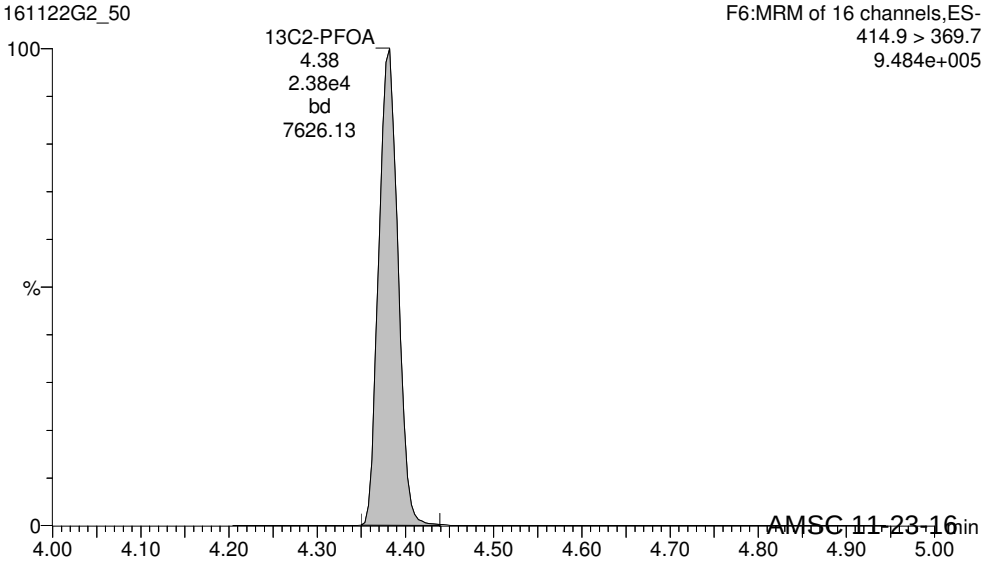
Total PFOA



18O2-PFHxS



13C2-PFOA



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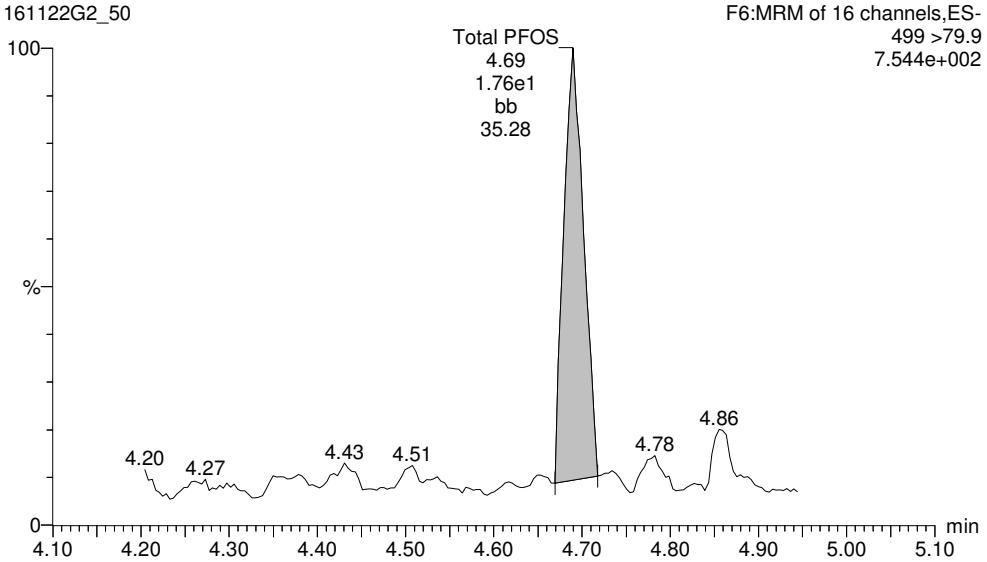
Total PFOS



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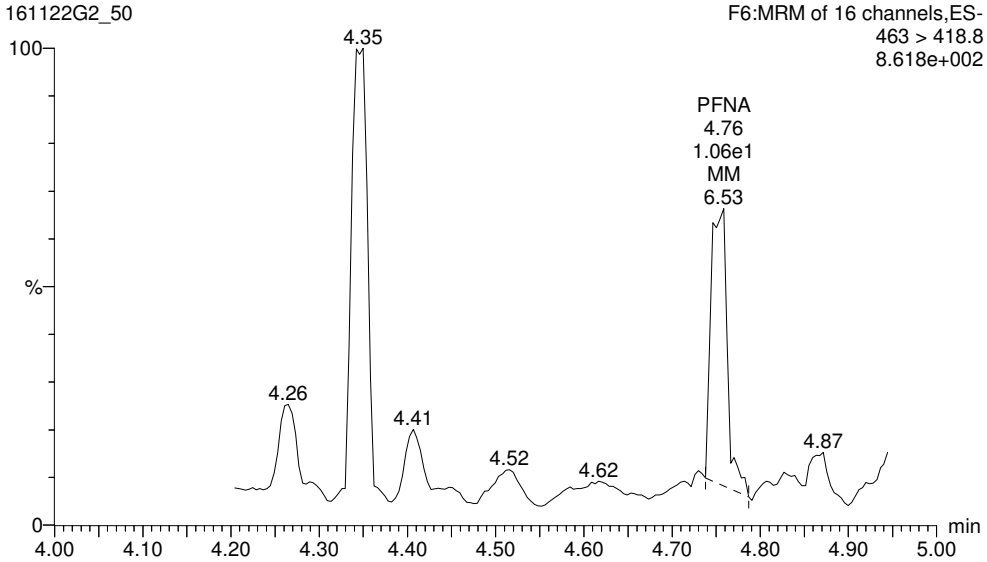
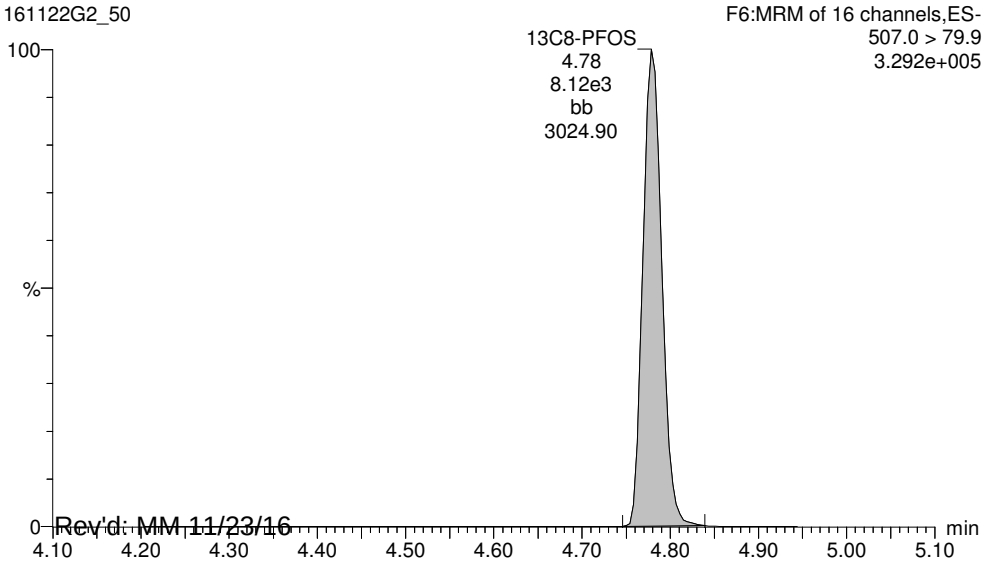
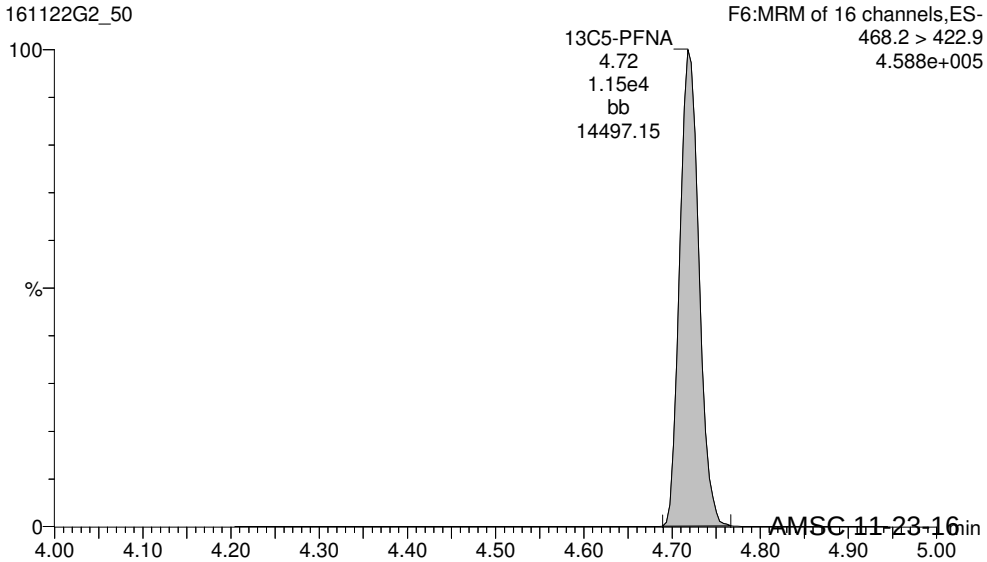


13C8-PFOS



13C5-PFNA



Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-50.qld

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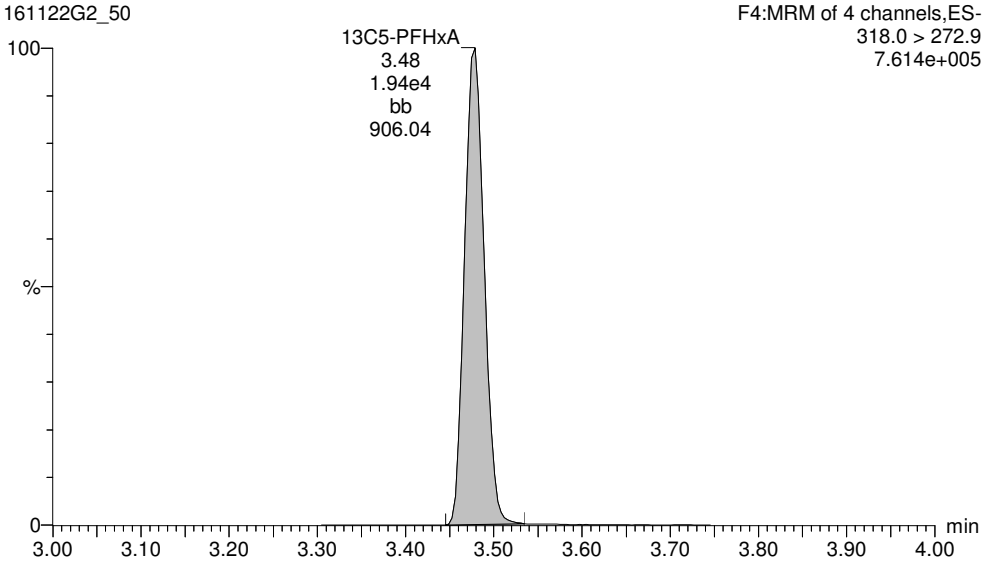
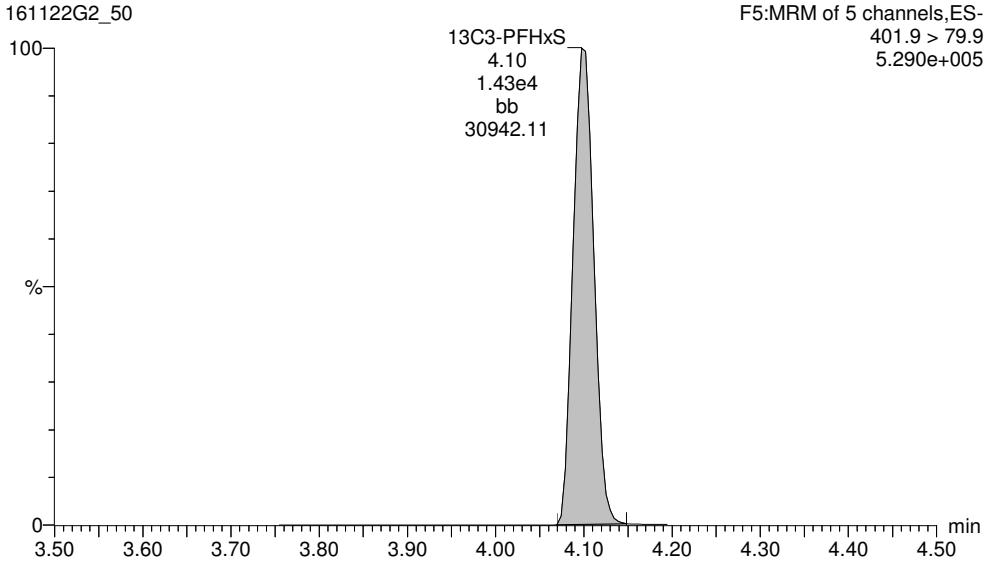
Printed: Wednesday, November 23, 2016 12:54:29 PM Pacific Standard Time

ID: 1601420-02 OC-EB110816 0.13201, Description: OC-EB110816, Name: 161122G2_50, Date: 22-Nov-2016, Time: 20:20:10, Instrument: , Lab: , User:

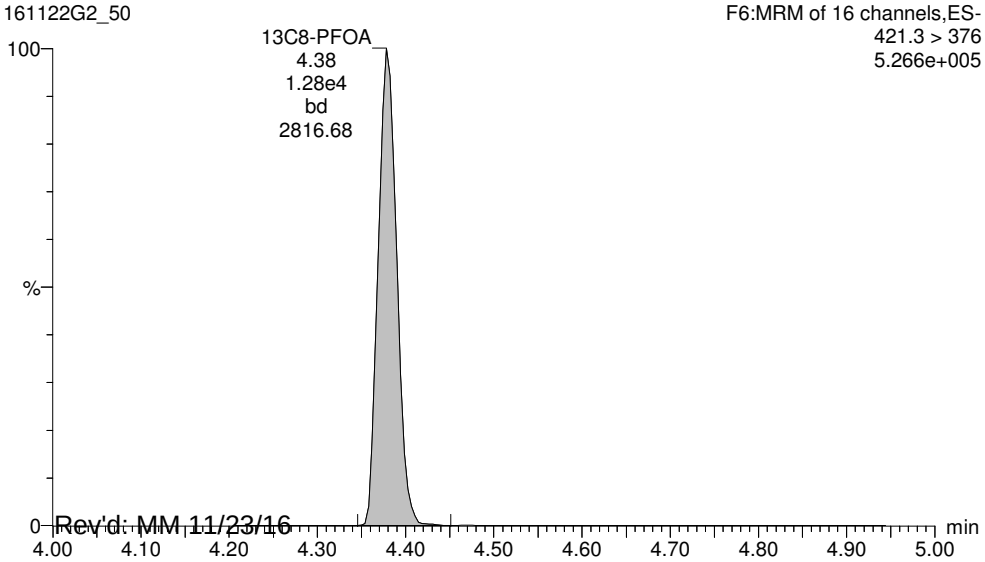
13C5-PFHxA



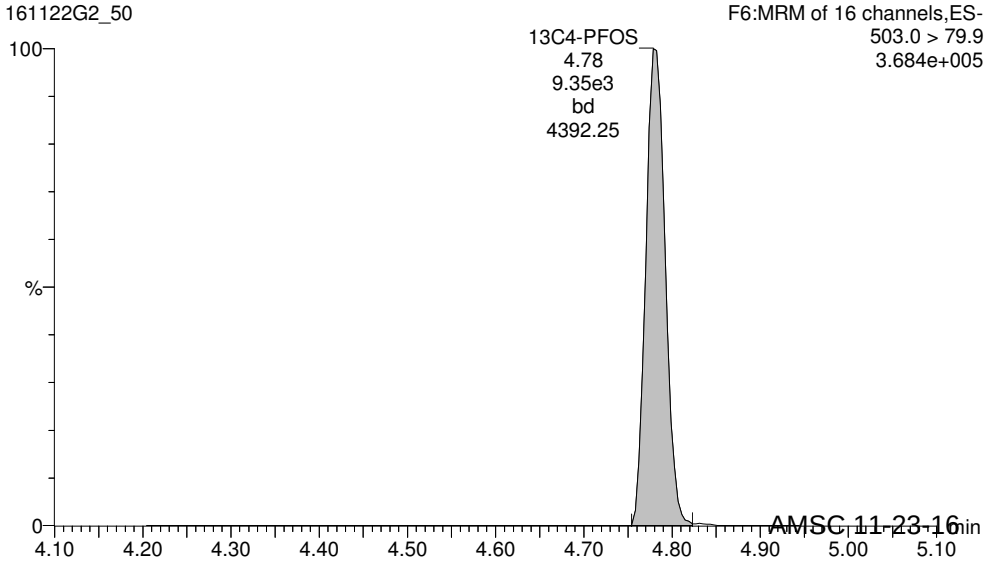
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-50.qld

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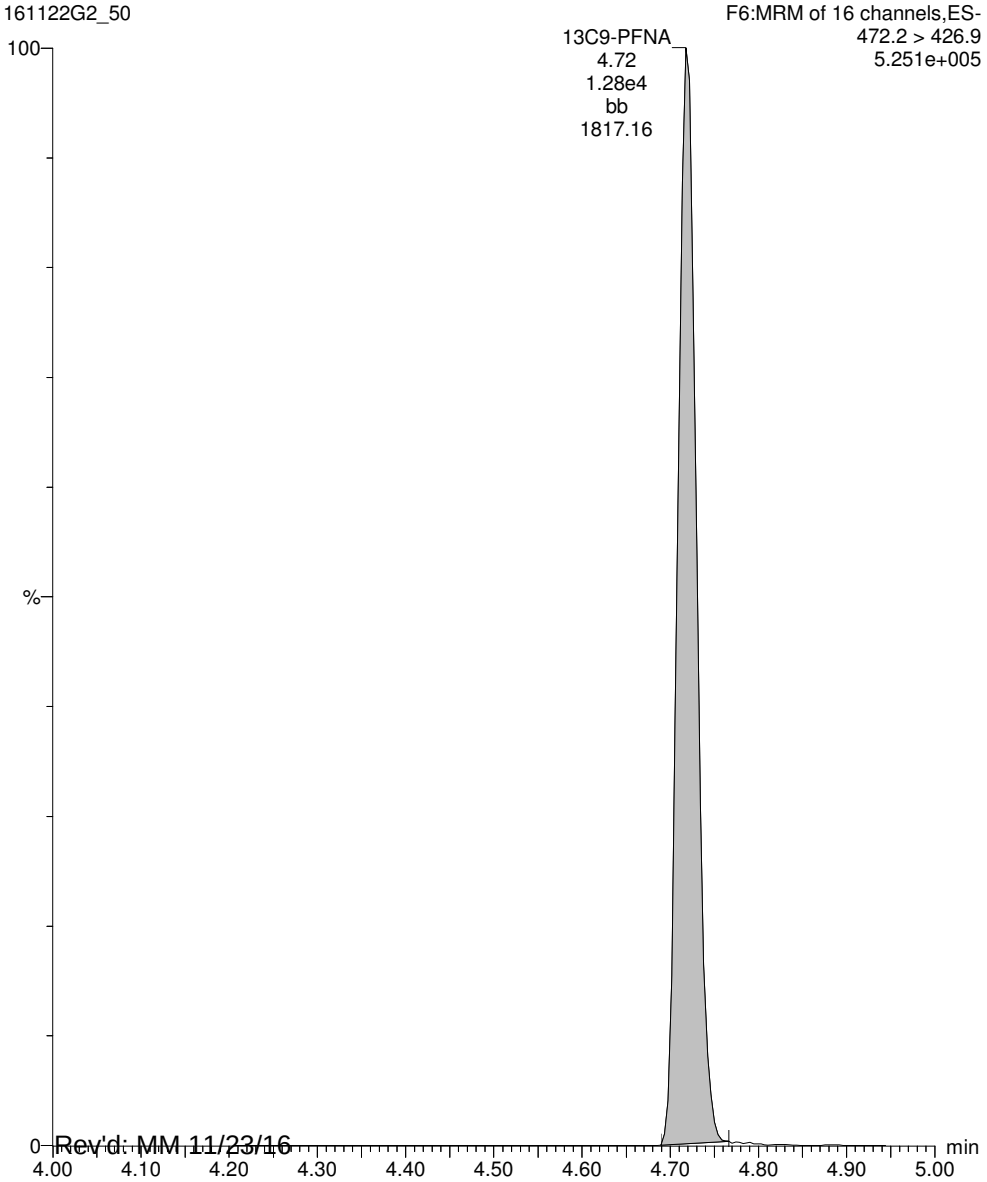
Printed: Wednesday, November 23, 2016 12:54:29 PM Pacific Standard Time

ID: 1601420-02 OC-EB110816 0.13201, Description: OC-EB110816, Name: 161122G2_50, Date: 22-Nov-2016, Time: 20:20:10, Instrument: , Lab: , User:

13C9-PFNA



Rev'd: MM 11/23/16

AMSC 11-23-16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-51.qld

Last Altered: Wednesday, November 23, 2016 11:32:19 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:32:32 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601420-03 OC-FB110816 0.1276, Description: OC-FB110816, Name: 161122G2_51, Date: 22-Nov-2016, Time: 20:32:48

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3	PFBS	299 > 79.7		6.023e3		0.128			
2	5	PFHpA	363 > 318.9	1.670e1	1.289e4		0.128	3.99	0.780	
3	6	PFHxS	398.9 > 79.6	3.327e1	5.414e3		0.128	4.10	0.471	
4	8	PFOA	413 > 368.7	2.465e2	2.078e4		0.128	4.38	0.492	
5	10	PFOS	499 >79.9	6.852e0	6.458e3		0.128	4.77	1.68	
6	11	PFNA	463 > 418.8	9.410e0	1.089e4		0.128	4.72	0.866	
7	15	13C3-PFPeA	266>221.8	7.727e3	1.841e4	0.448	0.128	2.86	91.8	93.8
8	16	13C3-PFBS	302.0 > 98.8	6.023e3	1.841e4	0.302	0.128	3.11	106	108
9	18	13C4-PFHpA	367.2 > 321.8	1.289e4	1.275e4	1.139	0.128	3.99	87.0	88.8
10	19	18O2-PFHxS	403 > 102.6	5.414e3	1.275e4	0.449	0.128	4.10	92.5	94.5
11	20	13C2-6:2 FTS	429.1 > 408.9	4.781e3	5.792e3	1.073	0.128	4.33	75.4	76.9
12	21	13C2-PFOA	414.9 > 369.7	2.078e4	9.474e3	2.262	0.128	4.38	95.0	97.0
13	22	13C8-PFOS	507.0 > 79.9	6.458e3	7.926e3	0.944	0.128	4.78	84.6	86.4
14	23	13C5-PFNA	468.2 > 422.9	1.089e4	1.170e4	1.082	0.128	4.72	84.3	86.0
15	24	13C2-PFDA	515.1 > 469.9	8.956e3	1.167e4	1.019	0.128	5.02	73.8	75.3
16	25	13C2-8:2 FTS	529.1 > 508.7	3.397e3	5.792e3	0.569	0.128	4.99	101	103
17	26	13C4-PFBA	217 > 171.8	1.709e4	1.709e4	1.000	0.128	1.90	98.0	100
18	27	13C2-4:2 FTS	329.2 > 308.9	5.792e3	5.792e3	1.000	0.128	3.38	98.0	100
19	28	13C5-PFHxA	318.0 > 272.9	1.841e4	1.841e4	1.000	0.128	3.48	98.0	100
20	29	13C3-PFHxS	401.9 > 79.9	1.275e4	1.275e4	1.000	0.128	4.10	98.0	100
21	30	13C8-PFOA	421.3 > 376	9.474e3	9.474e3	1.000	0.128	4.38	98.0	100
22	31	13C4-PFOS	503.0 > 79.9	7.926e3	7.926e3	1.000	0.128	4.78	98.0	100
23	32	13C9-PFNA	472.2 > 426.9	1.170e4	1.170e4	1.000	0.128	4.72	98.0	100
24	33	13C6-PFDA	519.1 > 473.7	1.167e4	1.167e4	1.000	0.128	5.02	98.0	100
25	34	Total PFBS	299 > 79.7		5.414e3		0.128			
26	35	Total PFHxS	398.9 > 79.6		5.414e3		0.128		0.471	
27	36	Total PFOA	413 > 368.7		2.078e4		0.128		0.492	
28	37	Total PFOS	499 > 79.9		6.458e3		0.128		3.48	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-51.qld

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Printed: Wednesday, November 23, 2016 11:32:32 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601420-03 OC-FB110816 0.1276, Description: OC-FB110816, Name: 161122G2_51, Date: 22-Nov-2016, Time: 20:32:48

Total PFBS

	#	Name	Trace	RT	Area	IS Area	Conc.
1							

Total PFHxS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	6	PFHxS	398.9 > 79.6	4.10	33.272	5413.959	0.5

Total PFOA

	#	Name	Trace	RT	Area	IS Area	Conc.
1	8	PFOA	413 > 368.7	4.38	246.514	20783.029	0.5

Total PFOS

	#	Name	Trace	RT	Area	IS Area	Conc.
1	10	PFOS	499 >79.9	4.77	6.852	6458.327	1.7
2	37	Total PFOS	499 >79.9	4.69	13.442	6458.327	1.8

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-51.qld

Last Altered: Wednesday, November 23, 2016 11:32:19 AM Pacific Standard Time
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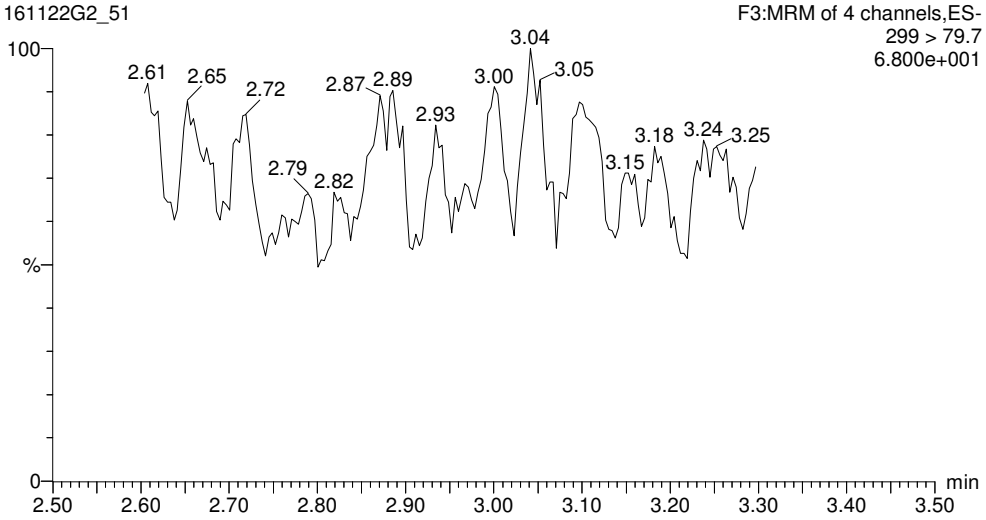
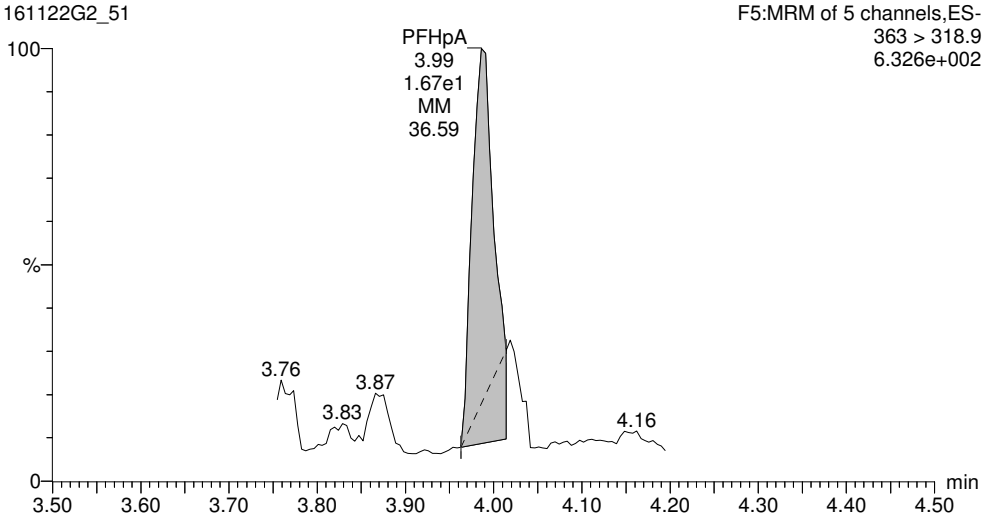
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: 1601420-03 OC-FB110816 0.1276, Description: OC-FB110816, Name: 161122G2_51, Date: 22-Nov-2016, Time: 20:32:48, Instrument: , Lab: , User:

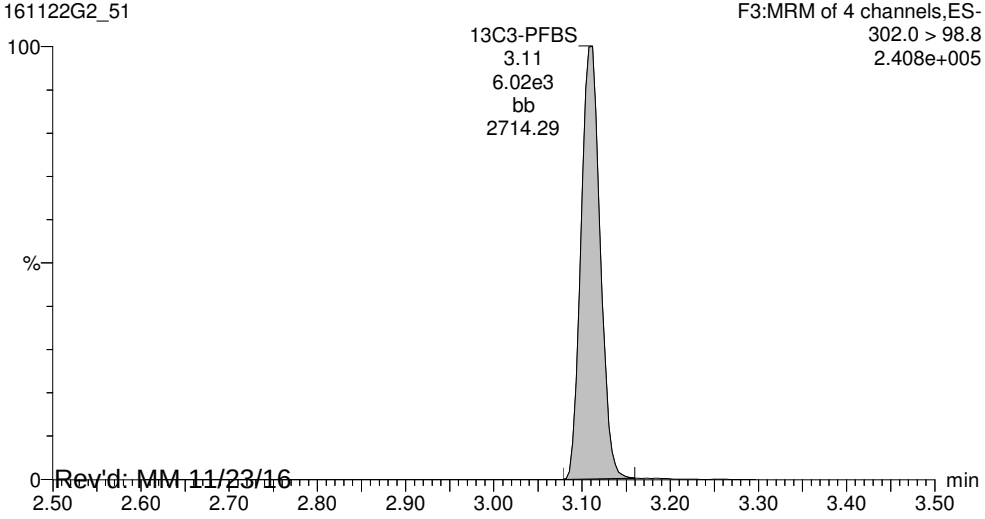
Total PFBS



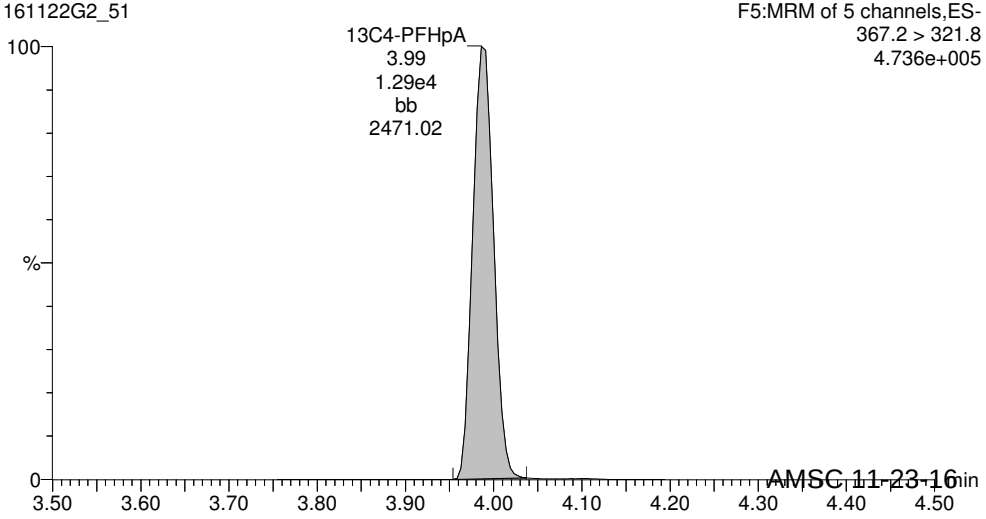
PFHpA



13C3-PFBS



13C4-PFHpA



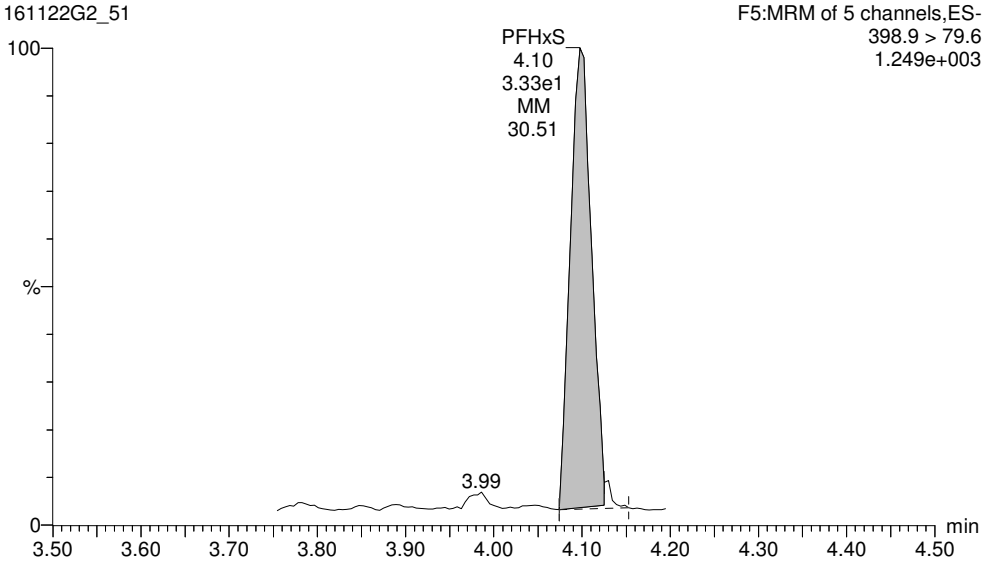
Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-51.qld

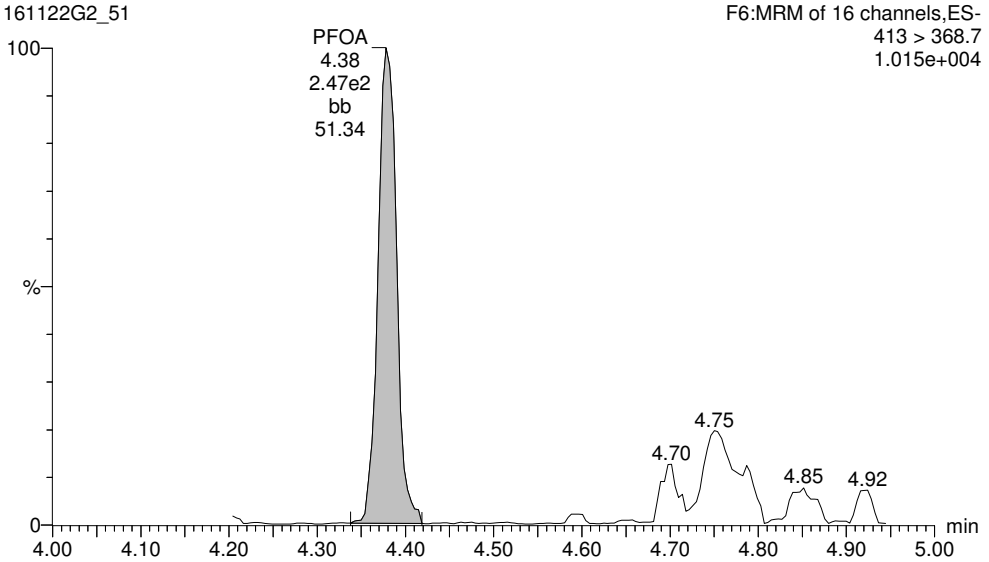
Last Altered: Wednesday, November 23, 2016 11:32:19 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:32:32 AM Pacific Standard Time

ID: 1601420-03 OC-FB110816 0.1276, Description: OC-FB110816, Name: 161122G2_51, Date: 22-Nov-2016, Time: 20:32:48, Instrument: , Lab: , User:

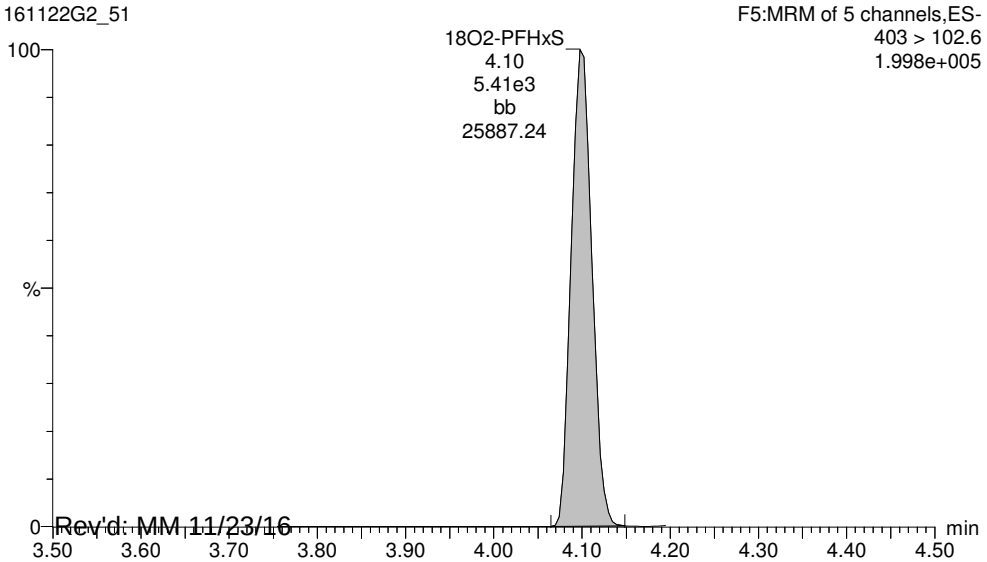
Total PFHxS



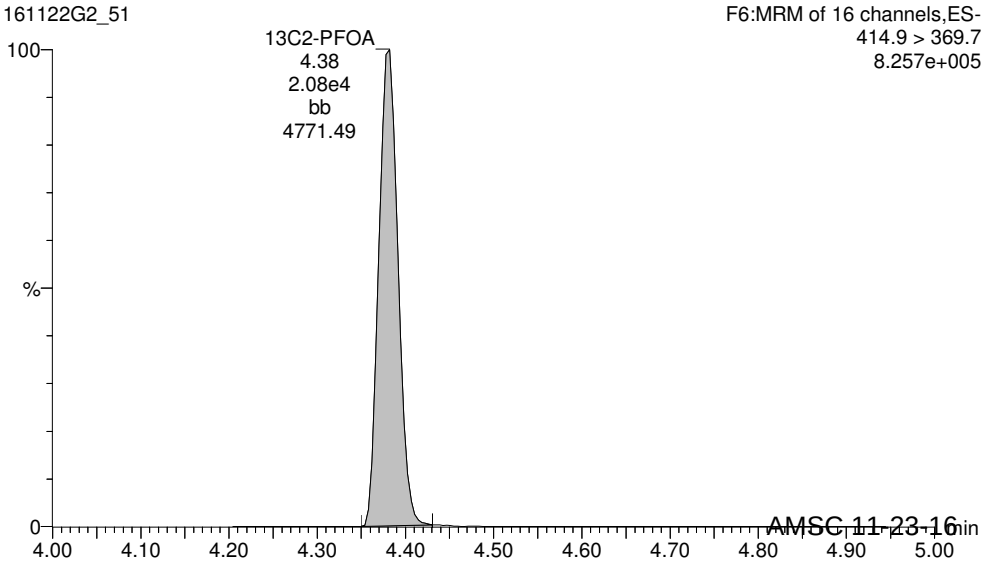
Total PFOA



18O2-PFHxS



13C2-PFOA



Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-51.qld

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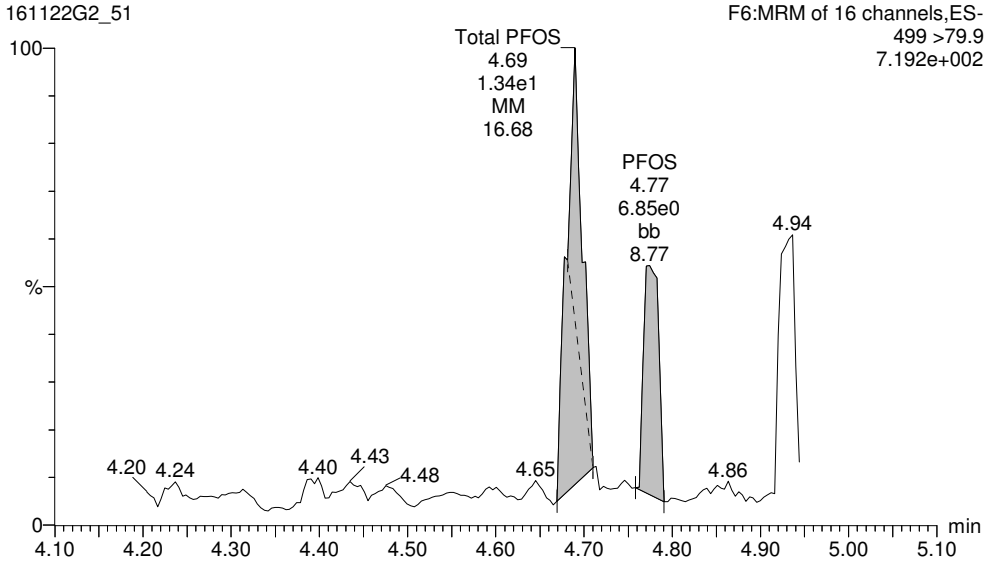
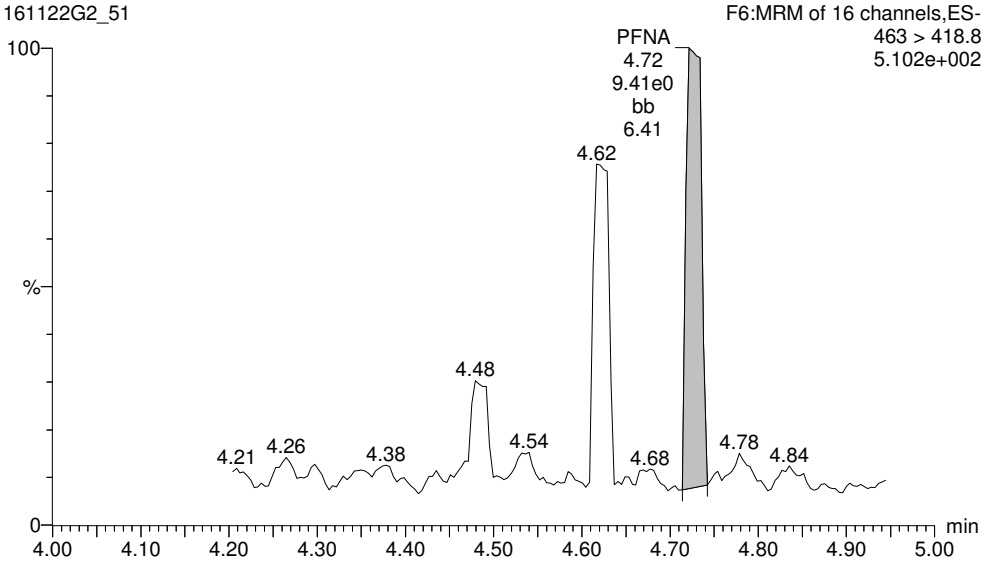
Printed: Wednesday, November 23, 2016 11:32:32 AM Pacific Standard Time

ID: 1601420-03 OC-FB110816 0.1276, Description: OC-FB110816, Name: 161122G2_51, Date: 22-Nov-2016, Time: 20:32:48, Instrument: , Lab: , User:

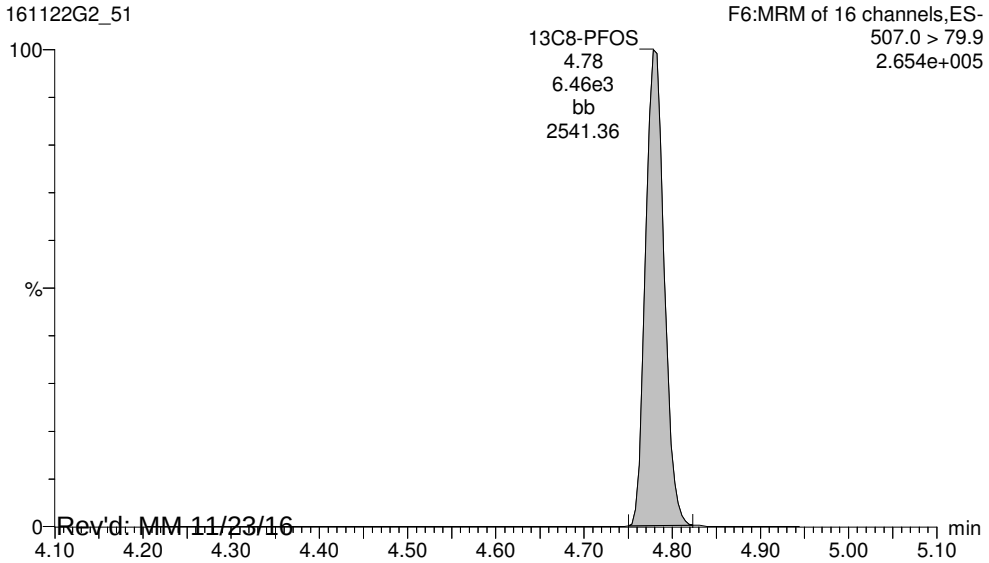
Total PFOS



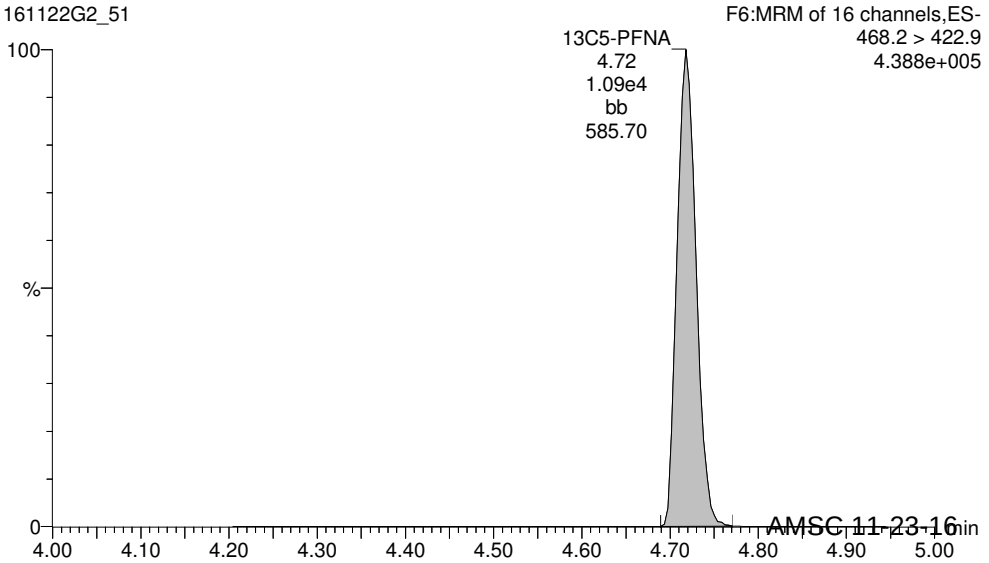
PFNA



13C8-PFOS



13C5-PFNA



Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-51.qld

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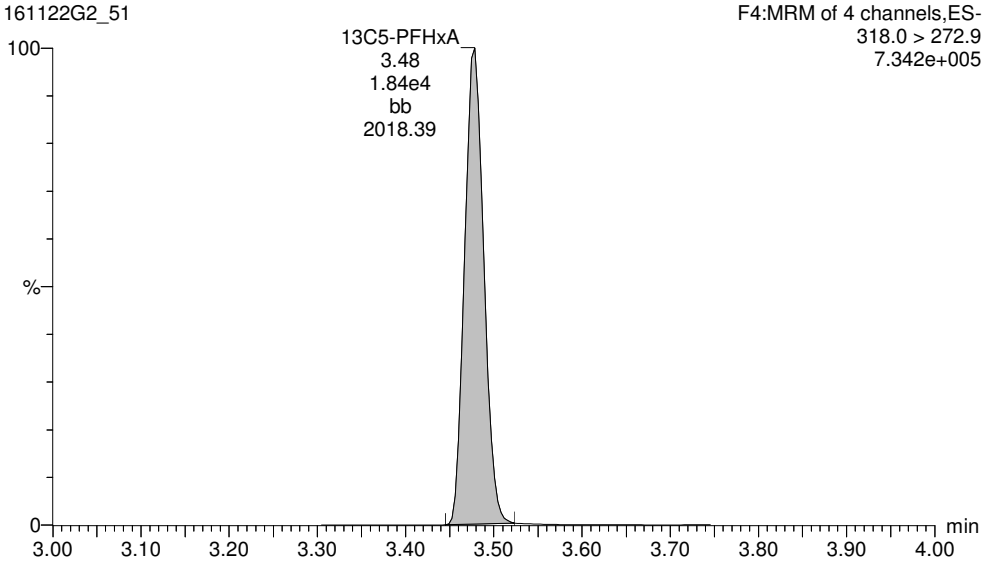
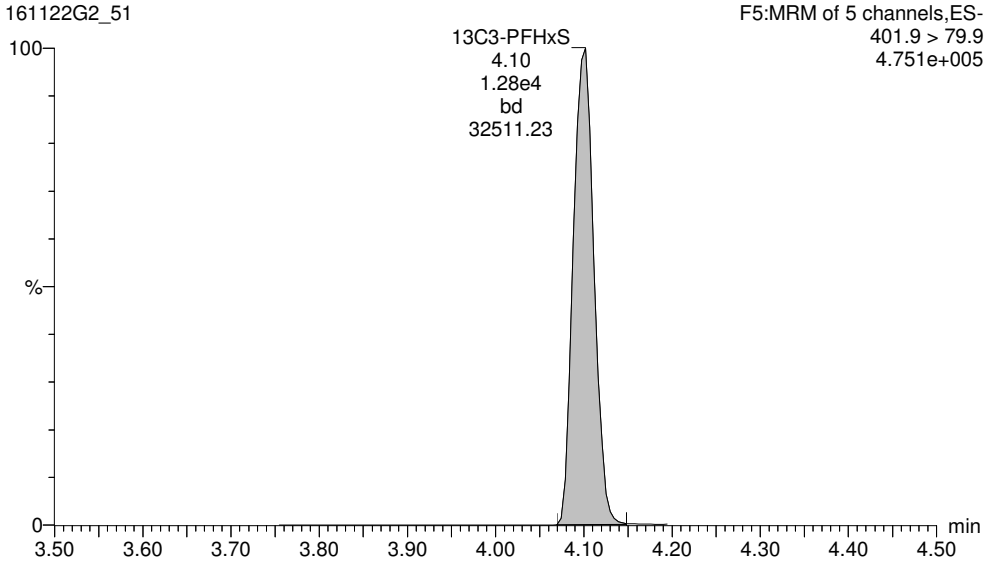
ID: 1601420-03 OC-FB110816 0.1276, Description: OC-FB110816, Name: 161122G2_51, Date: 22-Nov-2016, Time: 20:32:48, Instrument: , Lab: , User:

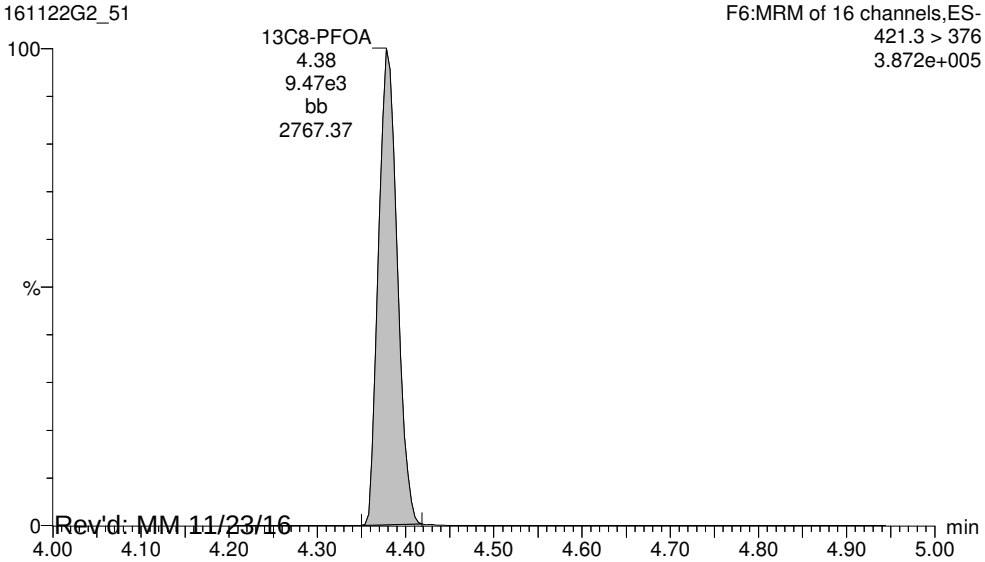
13C5-PFHxA



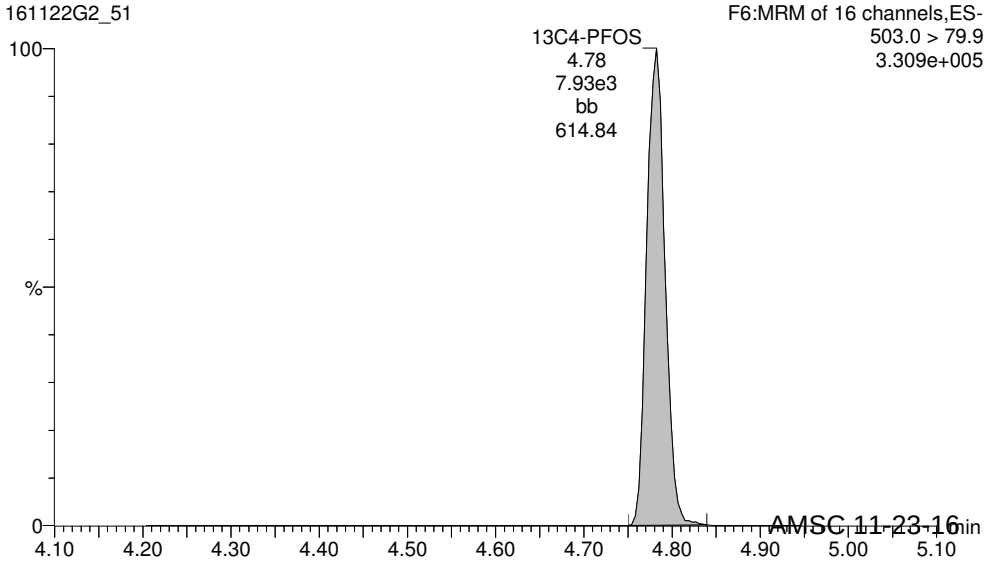
13C3-PFHxS



13C8-PFOA



13C4-PFOS



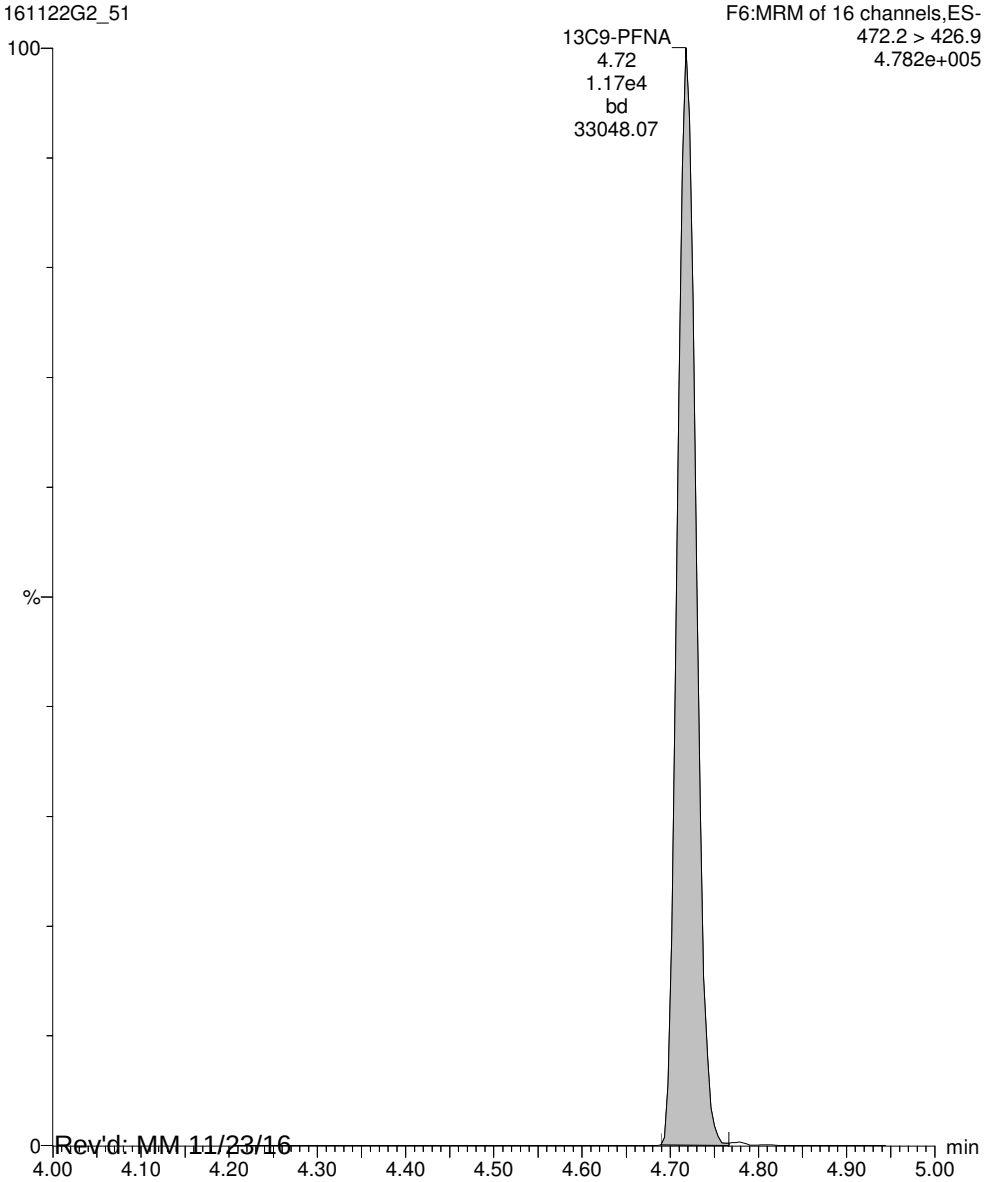
Rev'd: MM 11/23/16 AMSC 11-23-16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-51.qld

Last Altered: Wednesday, November 23, 2016 11:32:19 AM Pacific Standard Time
Printed: Wednesday, November 23, 2016 11:32:32 AM Pacific Standard Time

ID: 1601420-03 OC-FB110816 0.1276, Description: OC-FB110816, Name: 161122G2_51, Date: 22-Nov-2016, Time: 20:32:48, Instrument: , Lab: , User:

13C9-PFNA



Rev'd: MM 11/23/16

CONTINUING CALIBRATION

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-40.qld

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Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21
12 AMSC 11/23/16
ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Task:

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBA	213.1 > 168.8	1.977e4	1.963e4		1.00	1.95	25.6	103
2	2	PFPeA	263.1 > 218.9	1.729e4	8.372e3		1.00	2.86	25.9	103
3	3	PFBS	299 > 79.7	2.227e4	6.227e3		1.00	3.11	25.0	100
4	4	PFHxA	313.2 > 268.9	1.407e4	4.366e3		1.00	3.48	26.9	108
5	5	PFHpA	363 > 318.9	4.578e4	1.424e4		1.00	3.99	26.0	104
6	6	PFHxS	398.9 > 79.6	2.033e4	5.732e3		1.00	4.10	25.8	103
7	7	6:2 FTS	427.1 > 407	5.208e3	5.692e3		1.00	4.33	25.7	103
8	8	PFOA	413 > 368.7	4.588e4	2.448e4		1.00	4.38	25.9	104
9	9	PFHpS	449 > 98.7	4.575e3	2.448e4		1.00	4.46	25.6	102
10	10	PFOS	499 >79.9	1.262e4	7.336e3		1.00	4.78	26.0	104
11	11	PFNA	463 > 418.8	4.163e4	1.231e4		1.00	4.72	25.9	103
12	12	PFDA	513 > 468.8	1.319e4	9.349e3		1.00	5.02	29.6	118
13	13	8:2 FTS	527 > 506.9	4.026e3	3.332e3		1.00	5.00	31.0	124
14	14	13C3-PFBA	216.1 > 171.8	1.963e4	1.562e4	1.205	1.00	1.95	13.0	104
15	15	13C3-PFPeA	266>221.8	8.372e3	1.777e4	0.448	1.00	2.86	13.2	105
16	16	13C3-PFBS	302.0 > 98.8	6.227e3	1.777e4	0.302	1.00	3.11	14.5	116
17	17	13C2-PFHxA	315 > 269.8	4.366e3	1.777e4	0.620	1.00	3.48	4.96	99.2
18	18	13C4-PFHpA	367.2 > 321.8	1.424e4	1.280e4	1.139	1.00	3.99	12.2	97.7
19	19	18O2-PFHxS	403 > 102.6	5.732e3	1.280e4	0.449	1.00	4.10	12.5	99.6
20	20	13C2-6:2 FTS	429.1 > 408.9	5.692e3	5.527e3	1.073	1.00	4.33	12.0	96.0
21	21	13C2-PFOA	414.9 > 369.7	2.448e4	1.047e4	2.262	1.00	4.38	12.9	103
22	22	13C8-PFOS	507.0 > 79.9	7.336e3	7.686e3	0.944	1.00	4.78	12.6	101
23	23	13C5-PFNA	468.2 > 422.9	1.231e4	1.138e4	1.082	1.00	4.72	12.5	99.9
24	24	13C2-PFDA	515.1 > 469.9	9.349e3	9.001e3	1.019	1.00	5.02	12.7	102
25	25	13C2-8:2 FTS	529.1 > 508.7	3.332e3	5.527e3	0.569	1.00	4.99	13.2	106
26	26	13C4-PFBA	217 > 171.8	1.562e4	1.562e4	1.000	1.00	1.94	12.5	100
27	27	13C2-4:2 FTS	329.2 > 308.9	5.527e3	5.527e3	1.000	1.00	3.38	12.5	100
28	28	13C5-PFHxA	318.0 > 272.9	1.777e4	1.777e4	1.000	1.00	3.48	12.5	100
29	29	13C3-PFHxS	401.9 > 79.9	1.280e4	1.280e4	1.000	1.00	4.10	12.5	100
30	30	13C8-PFOA	421.3 > 376	1.047e4	1.047e4	1.000	1.00	4.38	12.5	100
31	31	13C4-PFOS	503.0 > 79.9	7.686e3	7.686e3	1.000	1.00	4.78	12.5	100

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

AMSC 11/23/16

PW 11/27/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-40.qld

Last Altered: Wednesday, November 23, 2016 4:13:24 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Task:

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
32	32	13C9-PFNA	472.2 > 426.9	1.138e4	1.138e4	1.000	1.00	4.72	12.5	100
33	33	13C6-PFDA	519.1 > 473.7	9.001e3	9.001e3	1.000	1.00	5.02	12.5	100
34	34	Total PFBS	299 > 79.7		5.732e3		1.00		25.0	
35	35	Total PFHxS	398.9 > 79.6		5.732e3		1.00		25.8	
36	36	Total PFOA	413 > 368.7		2.448e4		1.00		25.9	
37	37	Total PFOS	499 > 79.9		7.336e3		1.00		26.3	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, November 23, 2016 4:28:09 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:29:29 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161122G2_1	IPA	22-Nov-16	09:47:54
2	161122G2_2	ST161122G2-2 PFC CS-1 16K1705	22-Nov-16	10:00:32
3	161122G2_3	ST161122G2-3 PFC CS0 16K1706	22-Nov-16	10:13:07
4	161122G2_4	ST161122G2-4 PFC CS1 16K1707	22-Nov-16	10:25:42
5	161122G2_5	ST161122G2-5 PFC CS2 16K1708	22-Nov-16	10:38:18
6	161122G2_6	ST161122G2-6 PFC CS3 16K1709	22-Nov-16	10:50:54
7	161122G2_7	ST161122G2-7 PFC CS3.5 16K1710	22-Nov-16	11:03:32
8	161122G2_8	ST161122G2-8 PFC CS4 16K1711	22-Nov-16	11:16:11
9	161122G2_9	ST161122G2-9 PFC CS4.5 16K1712	22-Nov-16	11:28:50
10	161122G2_10	ST161122G2-10 PFC CS5 16K1713	22-Nov-16	11:41:28
11	161122G2_11	IPA	22-Nov-16	11:54:03
12	161122G2_12	SS161122G2-1 PFC SS 16K2201	22-Nov-16	12:06:50
13	161122G2_13	IPA	22-Nov-16	12:19:32
14	161122G2_14	B6K0111-BS1 OPR 0.125	22-Nov-16	12:32:23
15	161122G2_15	B6K0125-BS1 OPR 0.125	22-Nov-16	12:58:17
16	161122G2_16	IPA	22-Nov-16	13:11:00
17	161122G2_17	B6K0125-BLK1 Method Blank 0.125	22-Nov-16	13:23:45
18	161122G2_18	1601433-01 WURTS_LF030/LF031_Eff-16110...	22-Nov-16	13:36:25
19	161122G2_19	1601433-02 WURTS-EB013JH-110816 0.12917	22-Nov-16	13:49:03
20	161122G2_20	1601433-03 WURTS-FB001Lab-110916 0.130...	22-Nov-16	14:01:41
21	161122G2_21	1601433-04 WURTS-FB002Novi-110916 0.12...	22-Nov-16	14:14:20
22	161122G2_22	1601433-05 WURTS-VAS05006-17-20 0.12957	22-Nov-16	14:26:54
23	161122G2_23	1601433-06 WURTS-VAS05006-27-30 0.12495	22-Nov-16	14:39:29
24	161122G2_24	1601433-07 WURTS-VAS05006-37-40 0.12989	22-Nov-16	14:52:05
25	161122G2_25	1601433-08 WURTS-VAS05006-47-50 0.12929	22-Nov-16	15:04:42
26	161122G2_26	1601433-09 WURTS-VAS17002-17-20 0.12603	22-Nov-16	15:17:18
27	161122G2_27	1601433-10 WURTS-VAS17002-27-30 0.12796	22-Nov-16	15:29:56
28	161122G2_28	IPA -11 AMSC 11/23/16	22-Nov-16	15:42:34
29	161122G2_29	ST161122G2-# PFC CS3.5 16K1710	22-Nov-16	15:55:12
30	161122G2_30	IPA	22-Nov-16	16:07:50
31	161122G2_31	1601433-11 WURTS-VAS17002-37-40 0.1279	22-Nov-16	16:20:28

Dataset: Untitled

Last Altered: Wednesday, November 23, 2016 4:28:09 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:29:29 PM Pacific Standard Time

Compound name: PFBA

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32	161122G2_32	1601433-12 WURTS-VAS17002-46.5-49.5 0.1...	22-Nov-16	16:33:07
33	161122G2_33	1601433-13 WURTS-EB014JH-110916 0.12806	22-Nov-16	16:45:42
34	161122G2_34	1601433-14 WURTS-VAS11022-17-20 0.12232	22-Nov-16	16:58:17
35	161122G2_35	1601433-15 WURTS-VAS11022-17-20_FD 0.1...	22-Nov-16	17:10:54
36	161122G2_36	1601433-16 WURTS-VAS11022-27-30 0.12713	22-Nov-16	17:23:30
37	161122G2_37	1601433-17 WURTS-VAS11022-37-40 0.1263	22-Nov-16	17:36:06
38	161122G2_38	1601433-18 WURTS-VAS11022-47-450 0.128...	22-Nov-16	17:48:44
39	161122G2_39	IPA -12 AMS C 11/23/16	22-Nov-16	18:01:22
40	161122G2_40	ST161122G2_1 PFC CS3.5 16K1710	22-Nov-16	18:14:00
41	161122G2_41	IPA	22-Nov-16	18:26:38
42	161122G2_42	B6K0124-BS1 LCS 0.125	22-Nov-16	18:39:18
43	161122G2_43	B6K0124-BSD1 LCS Dup 0.125	22-Nov-16	18:51:56
44	161122G2_44	IPA	22-Nov-16	19:04:31
45	161122G2_45	B6K0124-BLK1 Method Blank 0.125	22-Nov-16	19:17:09
46	161122G2_46	1601365-07 SW-NRES031-FRB-10252016 0....	22-Nov-16	19:29:44
47	161122G2_47	1601365-09 SW-NRES032-FRB-10252016 0....	22-Nov-16	19:42:20
48	161122G2_48	1601398-02 SW-NRES020-FRB-110116 0.129...	22-Nov-16	19:54:56
49	161122G2_49	1601420-01 FTWG-MW-02-1116 0.10754	22-Nov-16	20:07:33
50	161122G2_50	1601420-02 OC-EB110816 0.13201	22-Nov-16	20:20:10
51	161122G2_51	1601420-03 OC-FB110816 0.1276	22-Nov-16	20:32:48
52	161122G2_52	IPA -13 AMS C 11/23/16	22-Nov-16	20:45:27
53	161122G2_53	ST161122G2_8 PFC CS3.5 16K1710	22-Nov-16	20:58:05
54	161122G2_54	IPA	22-Nov-16	21:10:43
55	161122G2_55	IPA	22-Nov-16	21:23:21
56	161122G2_56	PFTEDA QC F1	22-Nov-16	21:35:59
57	161122G2_57	PFTEDA QC F3	22-Nov-16	21:48:34
58	161122G2_58	PFTEDA QC F4	22-Nov-16	22:01:09
59	161122G2_59	IPA	22-Nov-16	22:13:45

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-40.qld

Last Altered: Wednesday, November 23, 2016 4:13:24 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

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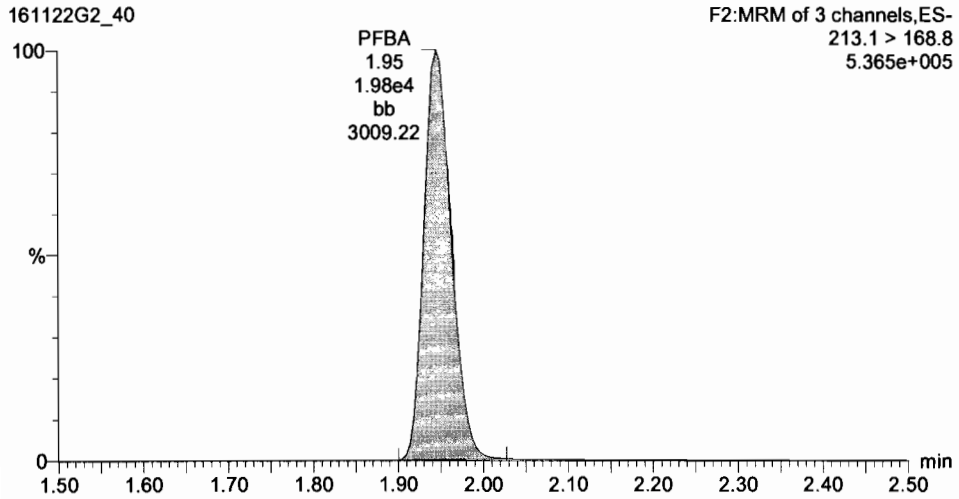
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

PFBA



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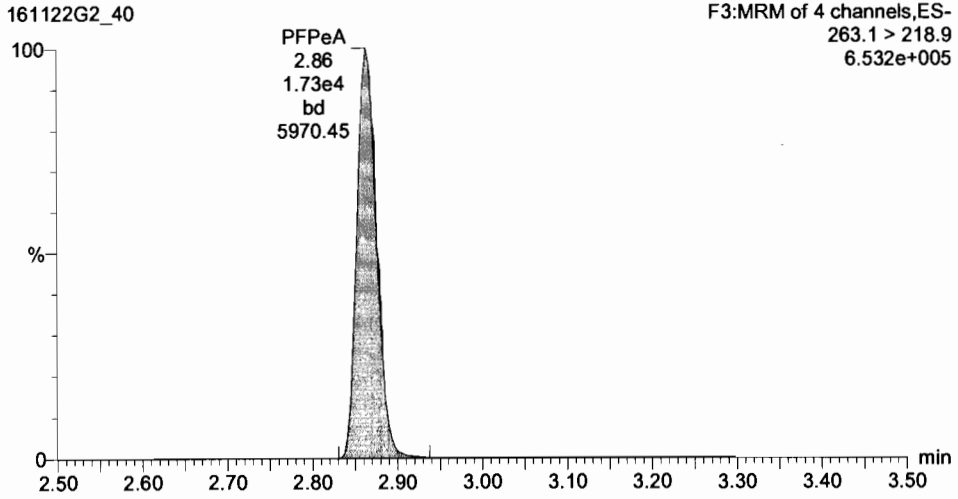
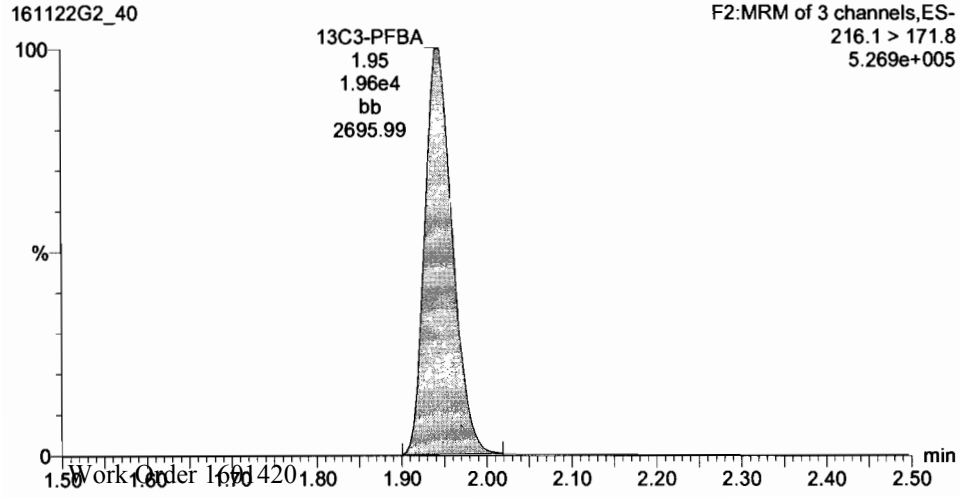


13C3-PFBA



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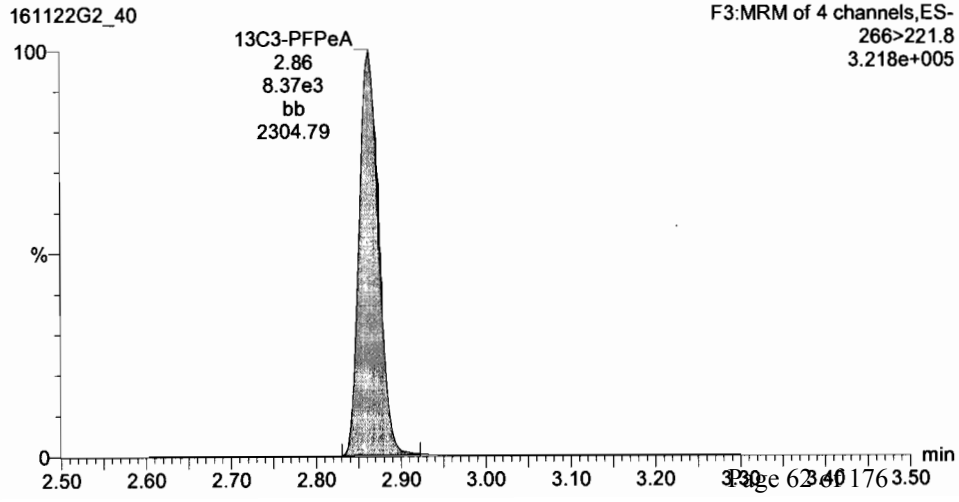

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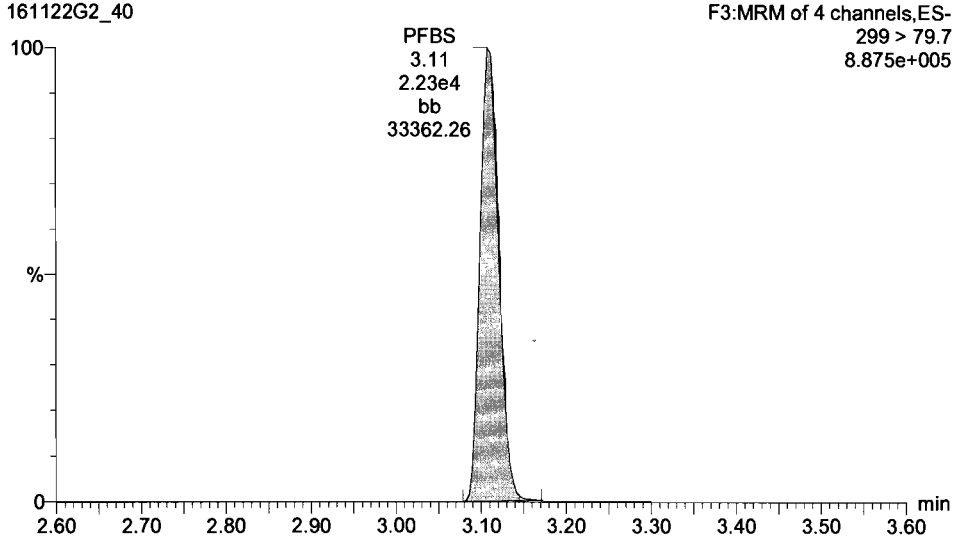
Last Altered: Wednesday, November 23, 2016 4:13:24 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

Total PFBS



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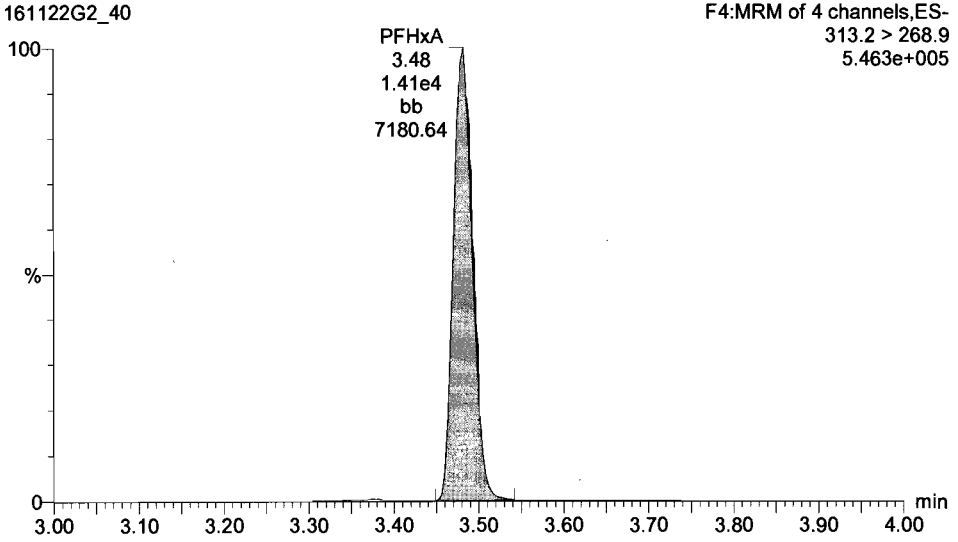

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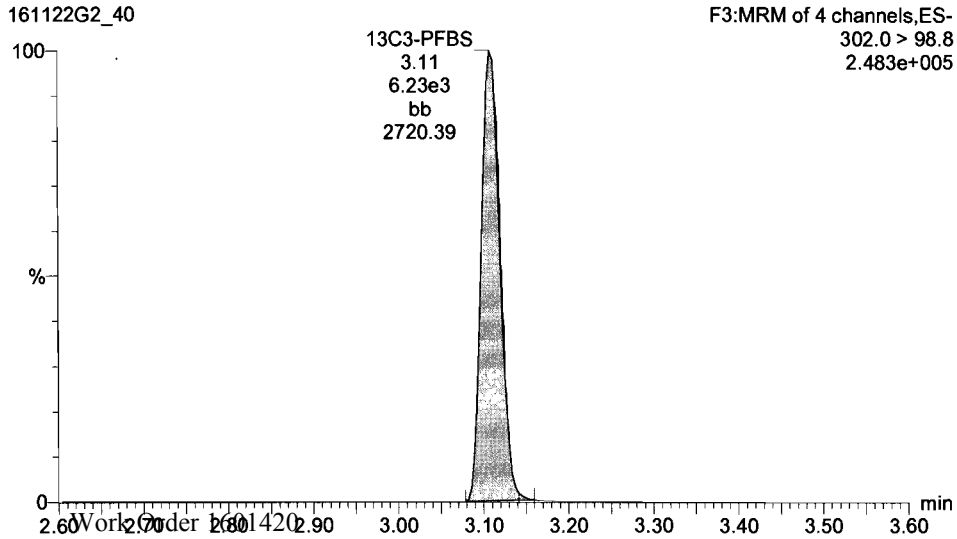

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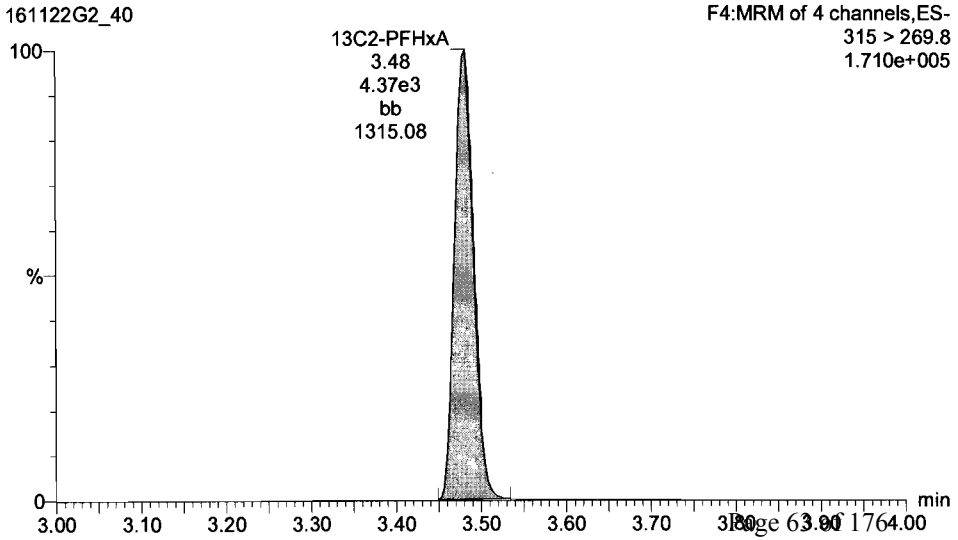

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Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

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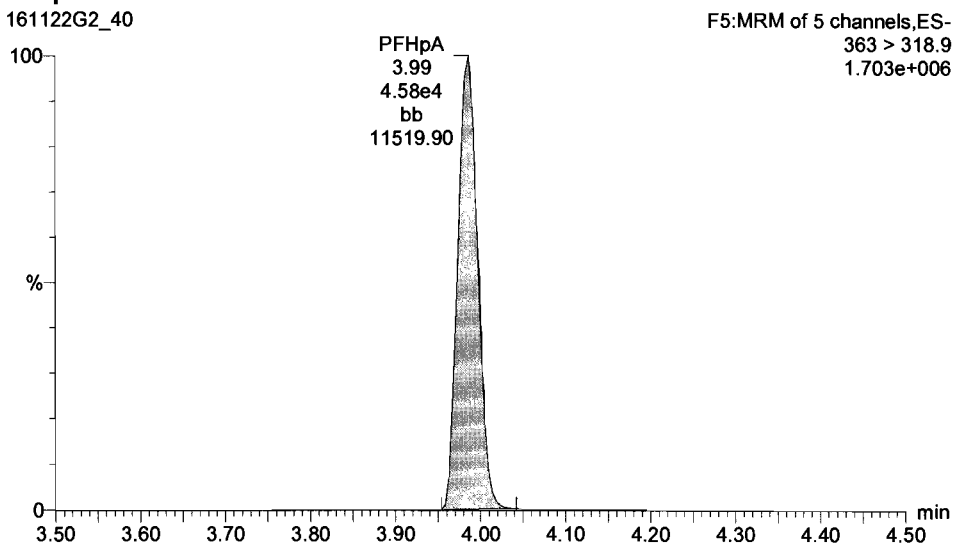

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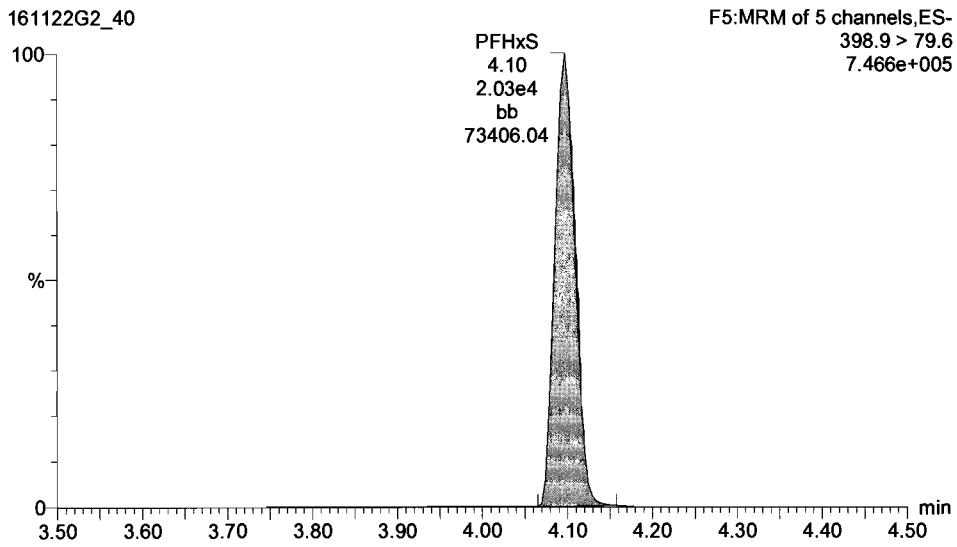

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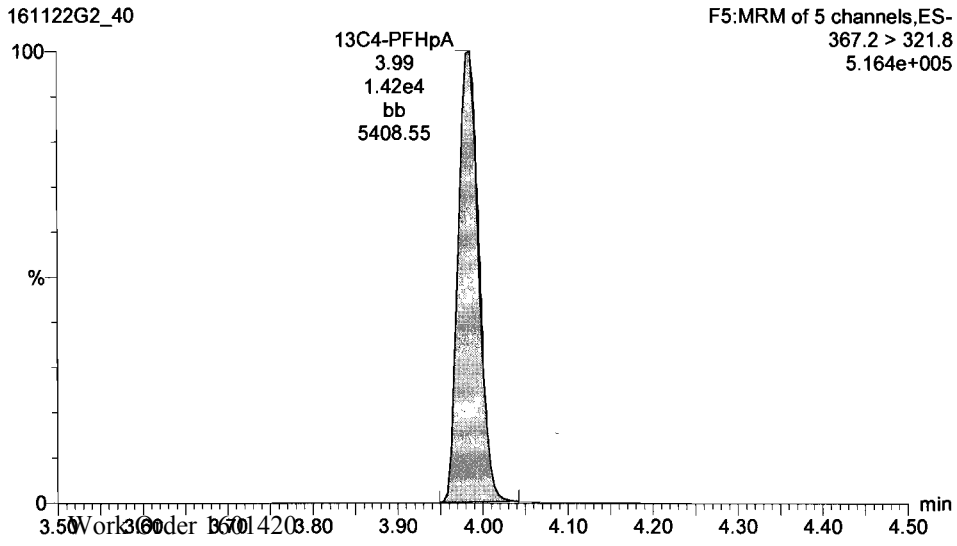

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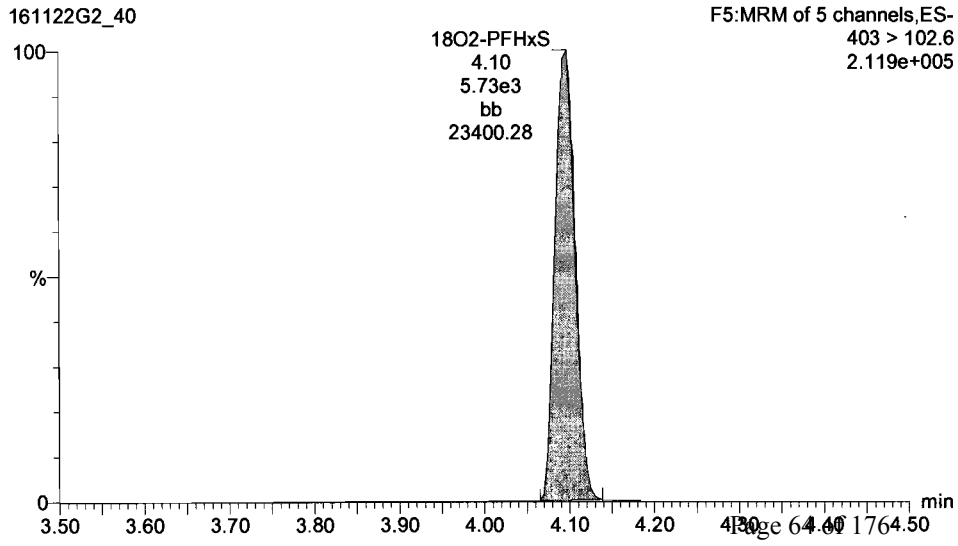

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Last Altered: Wednesday, November 23, 2016 4:13:24 PM Pacific Standard Time
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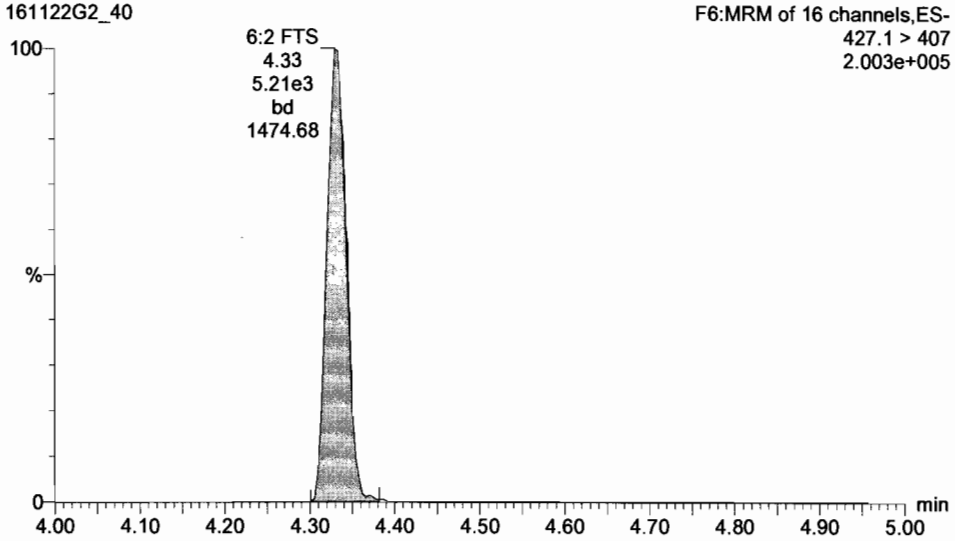
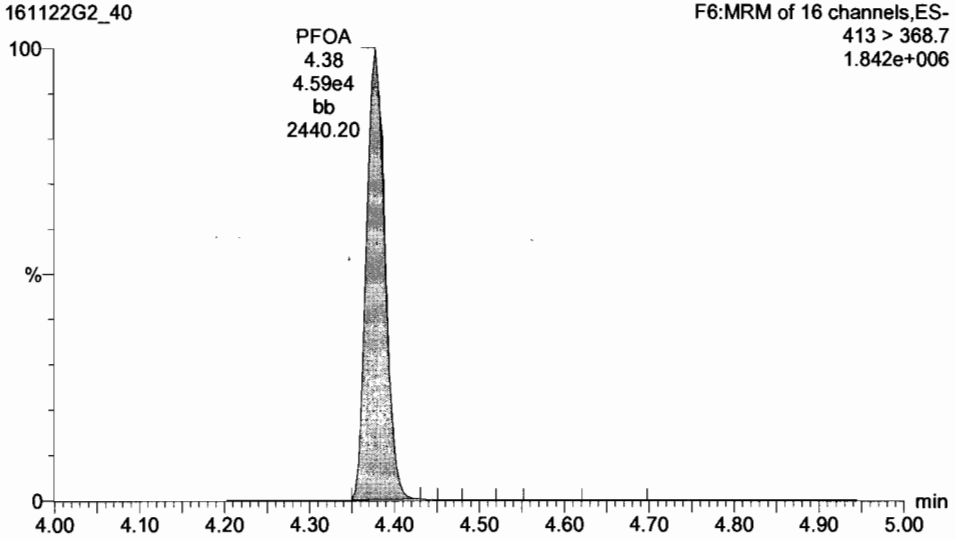
ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

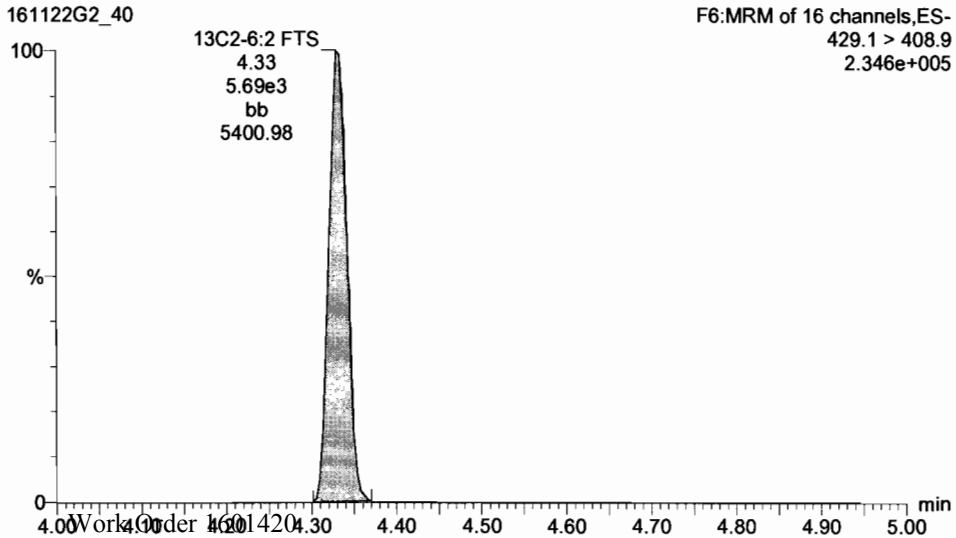
6:2 FTS



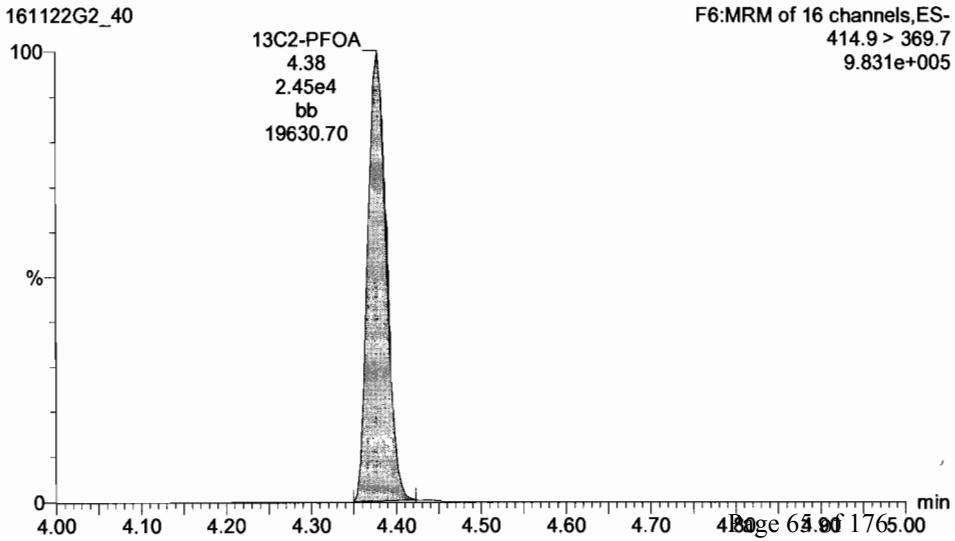
Total PFOA



13C2-6:2 FTS



13C2-PFOA



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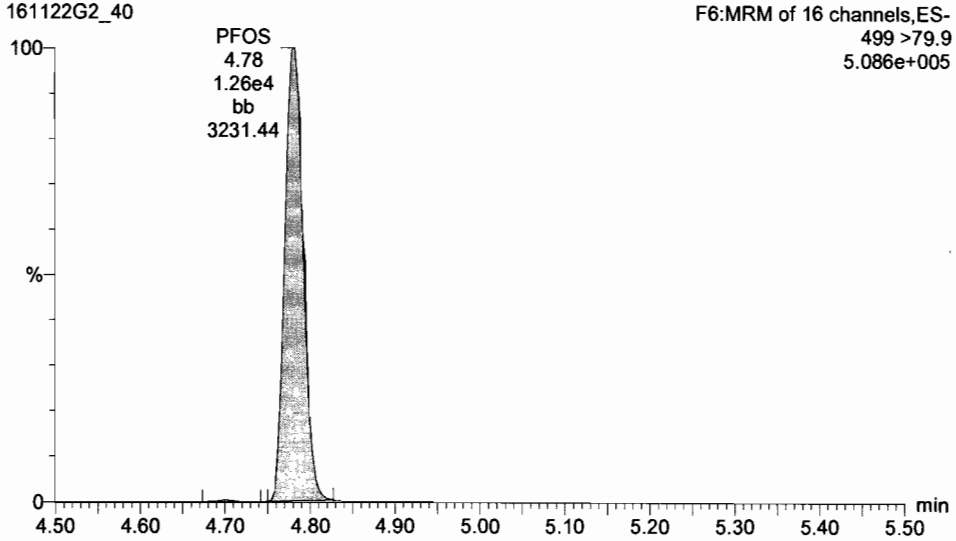
Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

Total PFOS



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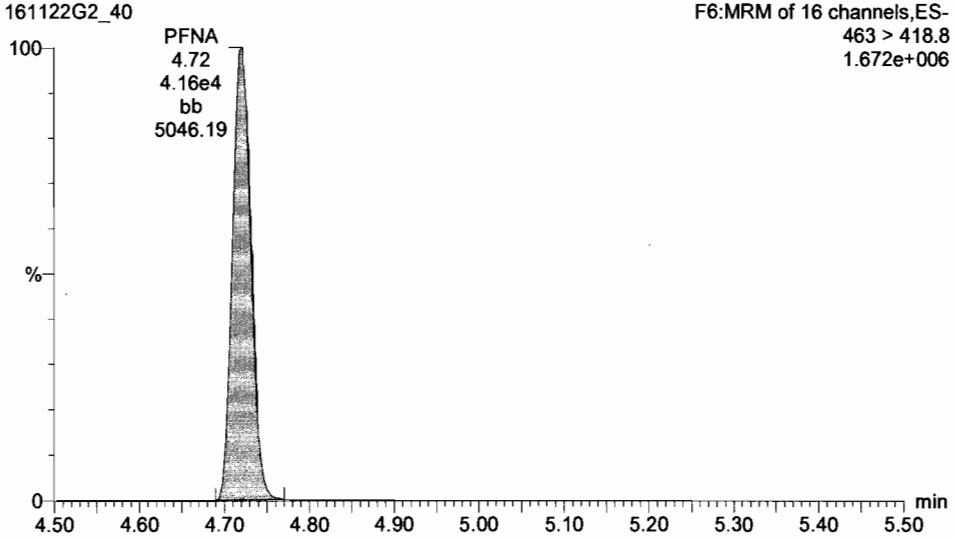

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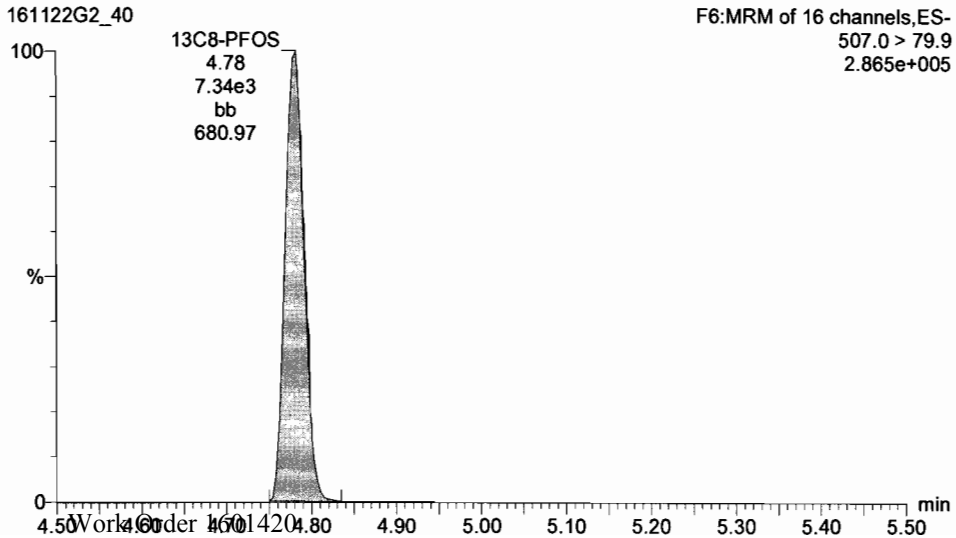

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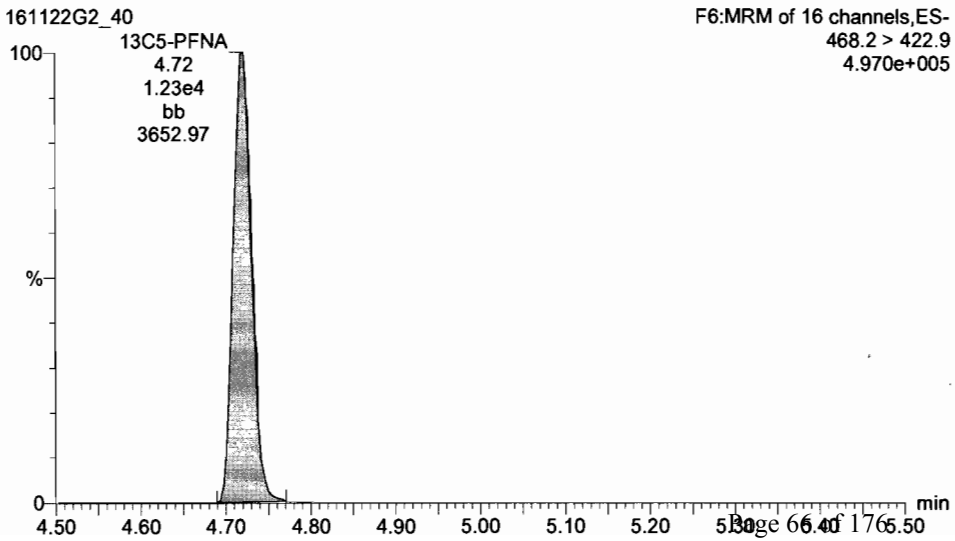

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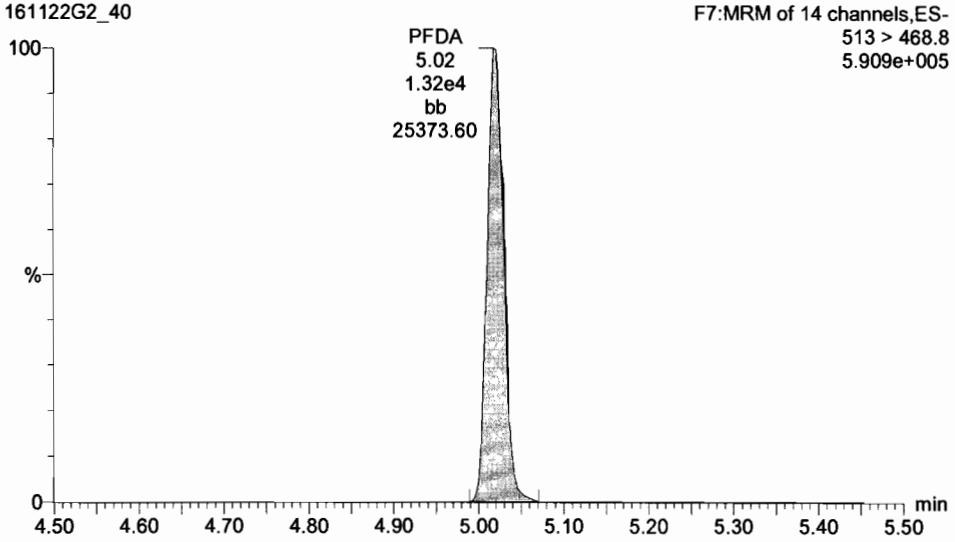
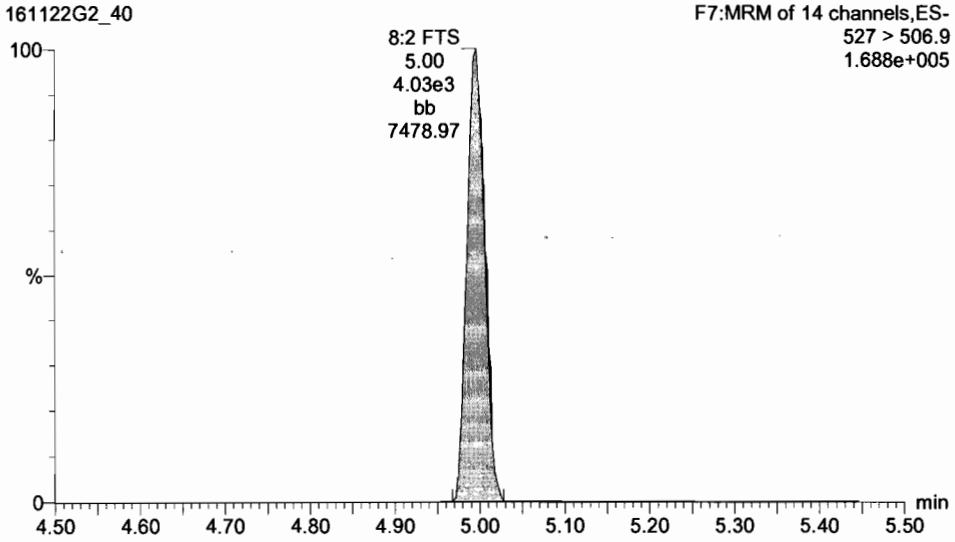
Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

PFDA



8:2 FTS



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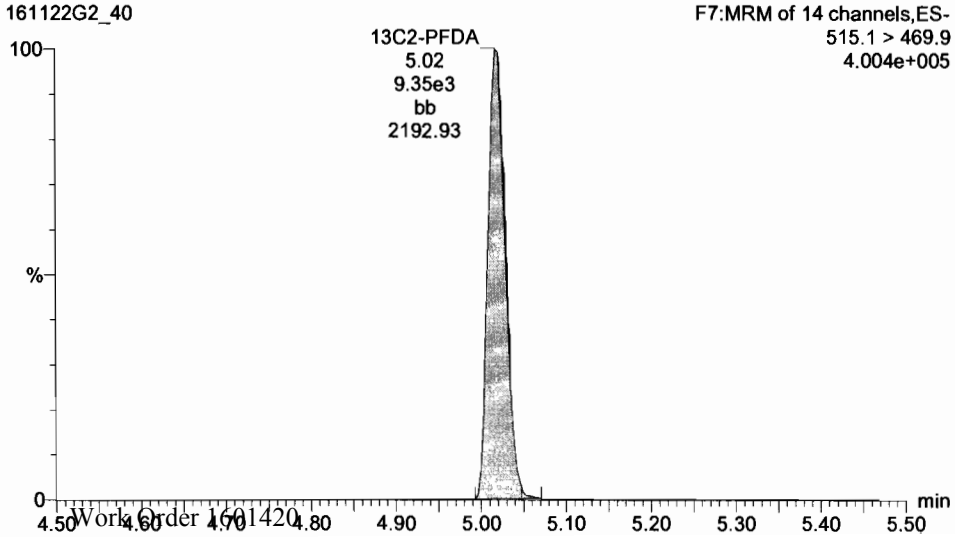

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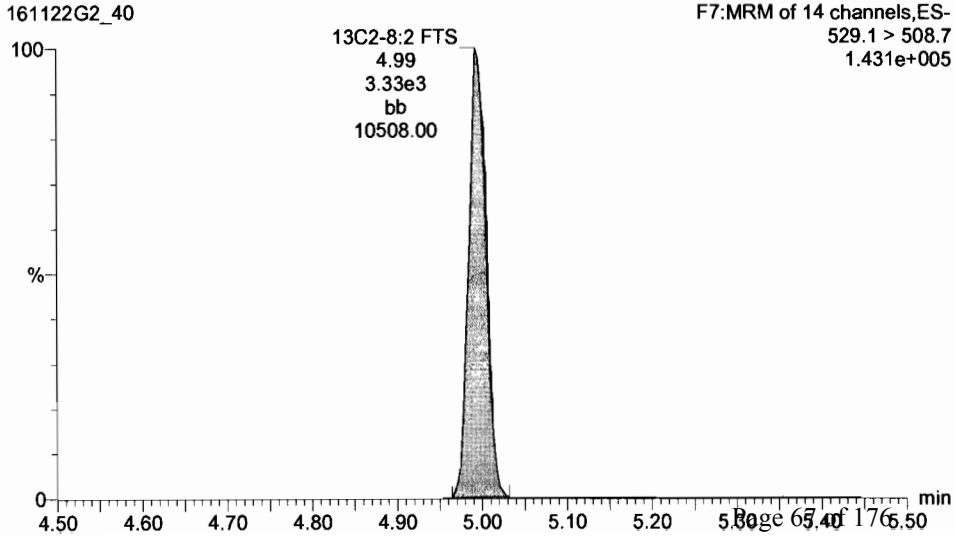

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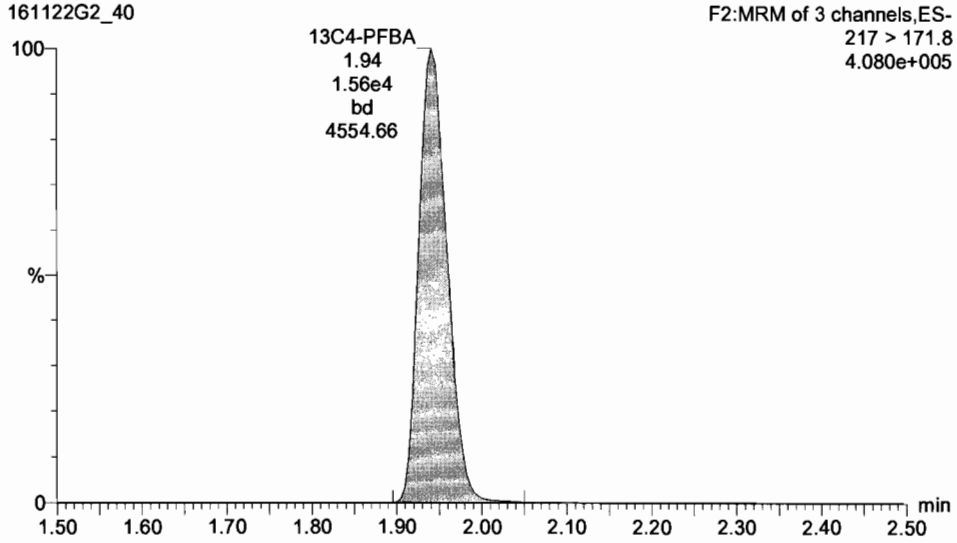
Printed: Wednesday, November 23, 2016 4:14:40 PM Pacific Standard Time

ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

13C4-PFBA



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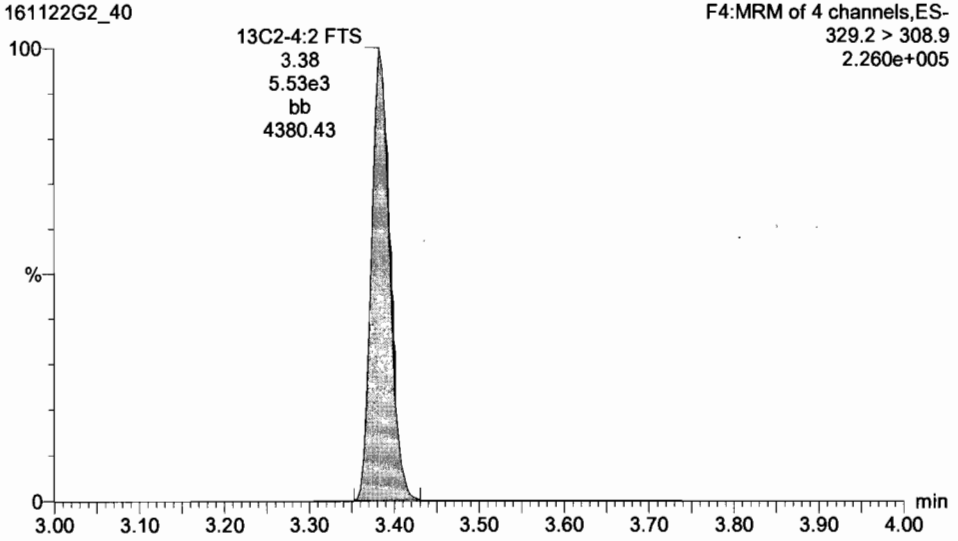
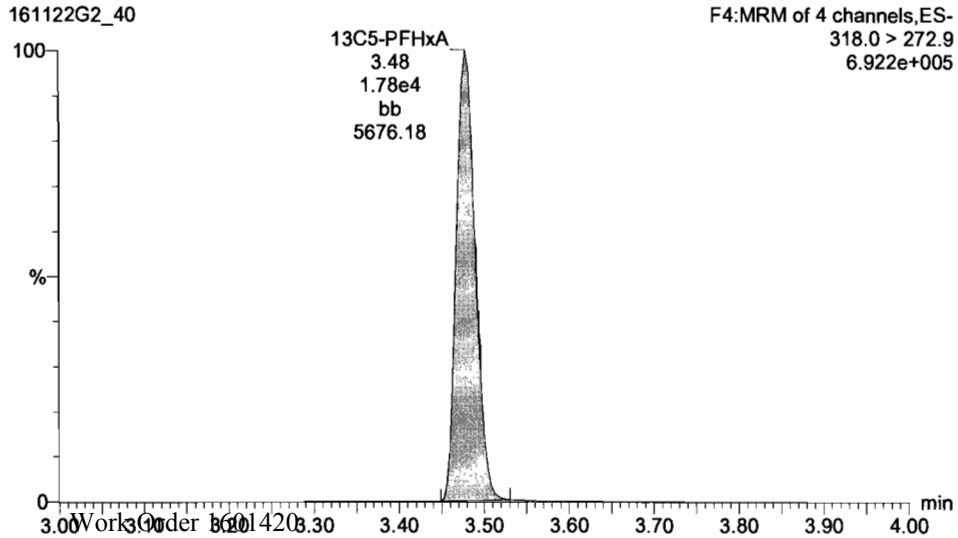
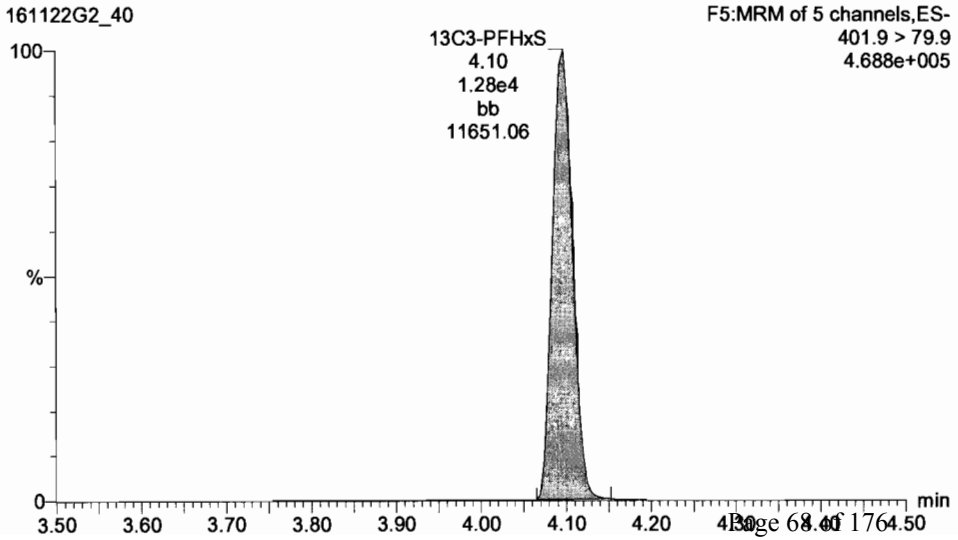


13C5-PFHxA



13C3-PFHxS



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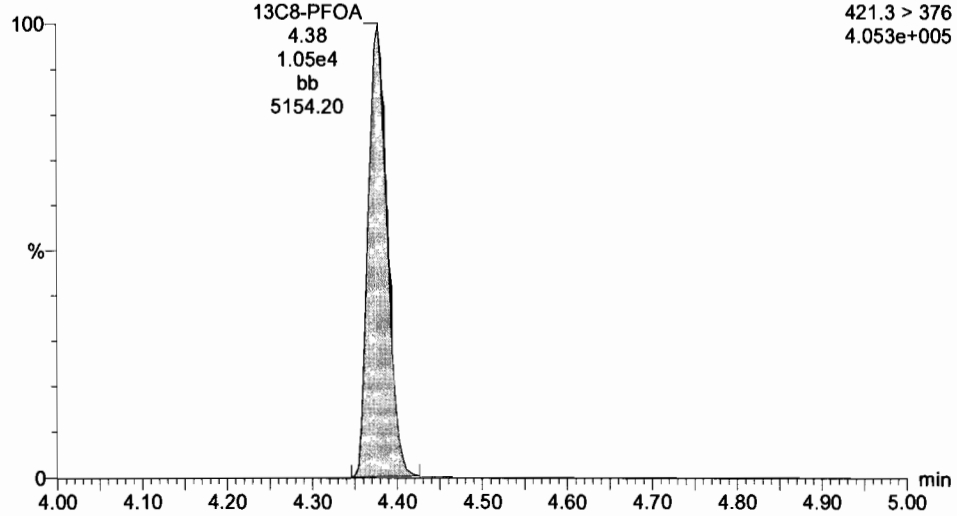
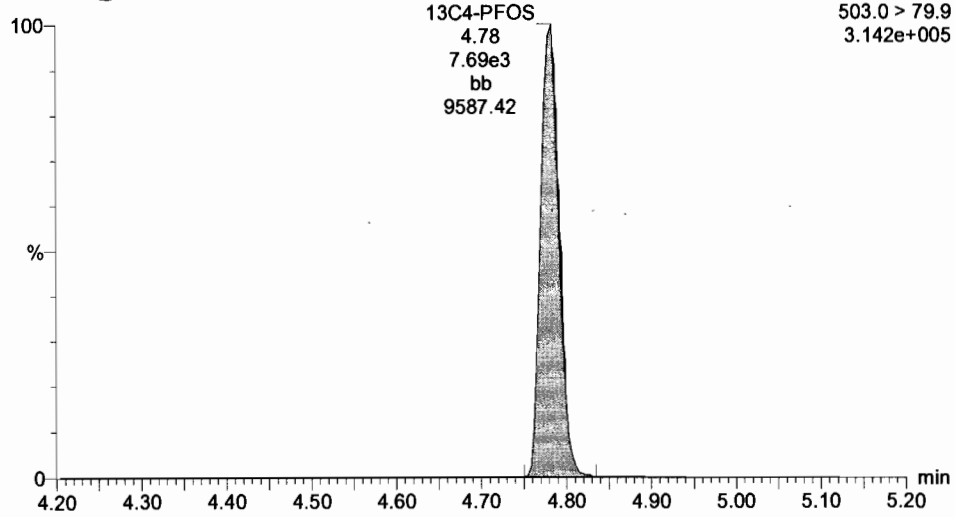
ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_40, Date: 22-Nov-2016, Time: 18:14:00, Instrument: , Lab: , User:

13C8-PFOA



13C4-PFOS



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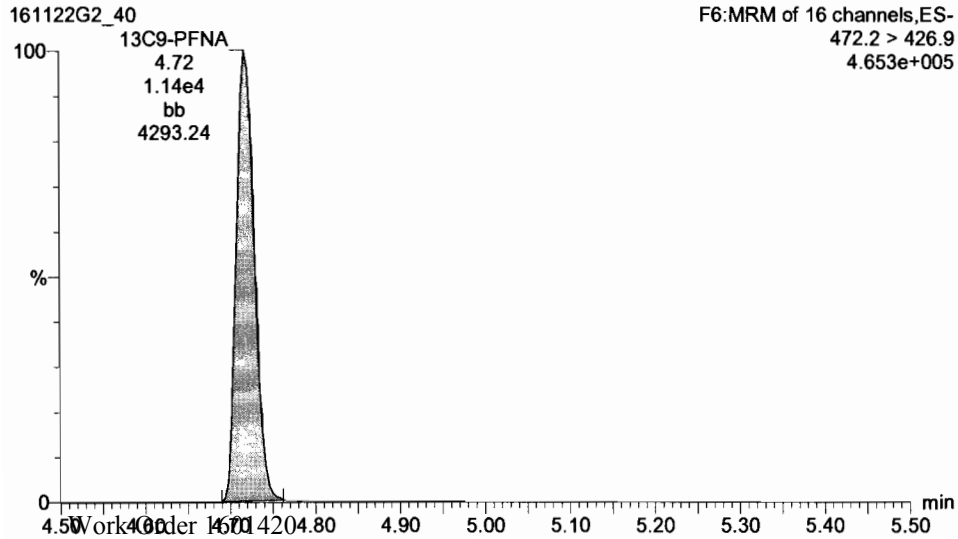
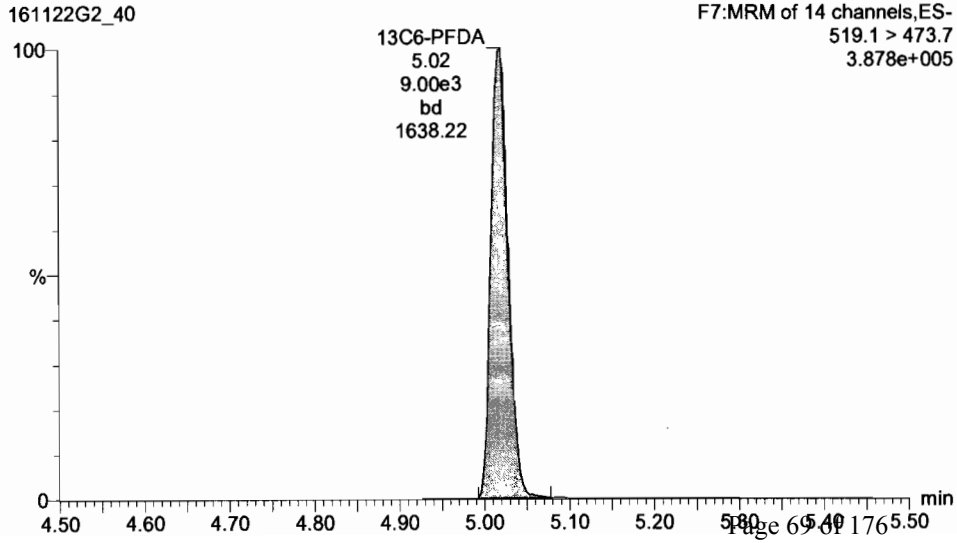


13C6-PFDA



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-53.qld

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Printed: Wednesday, November 23, 2016 4:17:47 PM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

13 AMSC 11/23/16

ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Task:

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1	PFBA	213.1 > 168.8	2.225e4	2.212e4		1.00	1.95	25.6	102
2	2	PFPeA	263.1 > 218.9	1.846e4	8.617e3		1.00	2.87	26.8	107
3	3	PFBS	299 > 79.7	2.168e4	6.219e3		1.00	3.11	24.4	97.6
4	4	PFHxA	313.2 > 268.9	1.539e4	4.923e3		1.00	3.48	26.1	104
5	5	PFHpA	363 > 318.9	4.776e4	1.454e4		1.00	3.99	26.5	106
6	6	PFHxS	398.9 > 79.6	2.159e4	6.014e3		1.00	4.10	26.1	104
7	7	6:2 FTS	427.1 > 407	5.574e3	6.001e3		1.00	4.33	26.1	104
8	8	PFOA	413 > 368.7	4.818e4	2.549e4		1.00	4.38	26.2	105
9	9	PFHpS	449 > 98.7	5.236e3	2.549e4		1.00	4.46	28.1	112
10	10	PFOS	499 >79.9	1.446e4	7.346e3		1.00	4.78	29.7	119
11	11	PFNA	463 > 418.8	4.251e4	1.282e4		1.00	4.72	25.3	101
12	12	PFDA	513 > 468.8	1.200e4	9.881e3		1.00	5.02	25.5	102
13	13	8:2 FTS	527 > 506.9	2.999e3	3.313e3		1.00	5.00	23.0	92.1
14	14	13C3-PFBA	216.1 > 171.8	2.212e4	1.801e4	1.205	1.00	1.95	12.7	102
15	15	13C3-PFPeA	266>221.8	8.617e3	1.973e4	0.448	1.00	2.86	12.2	97.6
16	16	13C3-PFBS	302.0 > 98.8	6.219e3	1.973e4	0.302	1.00	3.11	13.0	104
17	17	13C2-PFHxA	315 > 269.8	4.923e3	1.973e4	0.620	1.00	3.48	5.04	101
18	18	13C4-PFHpA	367.2 > 321.8	1.454e4	1.330e4	1.139	1.00	3.99	12.0	96.0
19	19	18O2-PFHxS	403 > 102.6	6.014e3	1.330e4	0.449	1.00	4.10	12.6	101
20	20	13C2-6:2 FTS	429.1 > 408.9	6.001e3	6.035e3	1.073	1.00	4.34	11.6	92.7
21	21	13C2-PFOA	414.9 > 369.7	2.549e4	1.127e4	2.262	1.00	4.38	12.5	99.9
22	22	13C8-PFOS	507.0 > 79.9	7.346e3	8.090e3	0.944	1.00	4.78	12.0	96.2
23	23	13C5-PFNA	468.2 > 422.9	1.282e4	1.074e4	1.082	1.00	4.72	13.8	110
24	24	13C2-PFDA	515.1 > 469.9	9.881e3	9.669e3	1.019	1.00	5.02	12.5	100
25	25	13C2-8:2 FTS	529.1 > 508.7	3.313e3	6.035e3	0.569	1.00	5.00	12.1	96.5
26	26	13C4-PFBA	217 > 171.8	1.801e4	1.801e4	1.000	1.00	1.95	12.5	100
27	27	13C2-4:2 FTS	329.2 > 308.9	6.035e3	6.035e3	1.000	1.00	3.38	12.5	100
28	28	13C5-PFHxA	318.0 > 272.9	1.973e4	1.973e4	1.000	1.00	3.48	12.5	100
29	29	13C3-PFHxS	401.9 > 79.9	1.330e4	1.330e4	1.000	1.00	4.10	12.5	100
30	30	13C8-PFOA	421.3 > 376	1.127e4	1.127e4	1.000	1.00	4.38	12.5	100
31	31	13C4-PFOS	503.0 > 79.9	8.090e3	8.090e3	1.000	1.00	4.78	12.5	100

75-125

60-150

40-150
60-150

50-150
60-150
40-150

AMSC 11/23/16
PW 11/23/16

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-53.qld

Last Altered: Wednesday, November 23, 2016 4:16:51 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:17:47 PM Pacific Standard Time

ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Task:

	#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
32	32	13C9-PFNA	472.2 > 426.9	1.074e4	1.074e4	1.000	1.00	4.72	12.5	100
33	33	13C6-PFDA	519.1 > 473.7	9.669e3	9.669e3	1.000	1.00	5.02	12.5	100
34	34	Total PFBS	299 > 79.7		6.014e3		1.00		24.4	
35	35	Total PFHxS	398.9 > 79.6		6.014e3		1.00		26.1	
36	36	Total PFOA	413 > 368.7		2.549e4		1.00		26.2	
37	37	Total PFOS	499 > 79.9		7.346e3		1.00		30.2	

Vista Analytical Laboratory VG-11

Dataset: Untitled

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA

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1	161122G2_1	IPA	22-Nov-16	09:47:54
2	161122G2_2	ST161122G2-2 PFC CS-1 16K1705	22-Nov-16	10:00:32
3	161122G2_3	ST161122G2-3 PFC CS0 16K1706	22-Nov-16	10:13:07
4	161122G2_4	ST161122G2-4 PFC CS1 16K1707	22-Nov-16	10:25:42
5	161122G2_5	ST161122G2-5 PFC CS2 16K1708	22-Nov-16	10:38:18
6	161122G2_6	ST161122G2-6 PFC CS3 16K1709	22-Nov-16	10:50:54
7	161122G2_7	ST161122G2-7 PFC CS3.5 16K1710	22-Nov-16	11:03:32
8	161122G2_8	ST161122G2-8 PFC CS4 16K1711	22-Nov-16	11:16:11
9	161122G2_9	ST161122G2-9 PFC CS4.5 16K1712	22-Nov-16	11:28:50
10	161122G2_10	ST161122G2-10 PFC CS5 16K1713	22-Nov-16	11:41:28
11	161122G2_11	IPA	22-Nov-16	11:54:03
12	161122G2_12	SS161122G2-1 PFC SS 16K2201	22-Nov-16	12:06:50
13	161122G2_13	IPA	22-Nov-16	12:19:32
14	161122G2_14	B6K0111-BS1 OPR 0.125	22-Nov-16	12:32:23
15	161122G2_15	B6K0125-BS1 OPR 0.125	22-Nov-16	12:58:17
16	161122G2_16	IPA	22-Nov-16	13:11:00
17	161122G2_17	B6K0125-BLK1 Method Blank 0.125	22-Nov-16	13:23:45
18	161122G2_18	1601433-01 WURTS_LF030/LF031_Eff-16110...	22-Nov-16	13:36:25
19	161122G2_19	1601433-02 WURTS-EB013JH-110816 0.12917	22-Nov-16	13:49:03
20	161122G2_20	1601433-03 WURTS-FB001Lab-110916 0.130...	22-Nov-16	14:01:41
21	161122G2_21	1601433-04 WURTS-FB002Novi-110916 0.12...	22-Nov-16	14:14:20
22	161122G2_22	1601433-05 WURTS-VAS05006-17-20 0.12957	22-Nov-16	14:26:54
23	161122G2_23	1601433-06 WURTS-VAS05006-27-30 0.12495	22-Nov-16	14:39:29
24	161122G2_24	1601433-07 WURTS-VAS05006-37-40 0.12989	22-Nov-16	14:52:05
25	161122G2_25	1601433-08 WURTS-VAS05006-47-50 0.12929	22-Nov-16	15:04:42
26	161122G2_26	1601433-09 WURTS-VAS17002-17-20 0.12603	22-Nov-16	15:17:18
27	161122G2_27	1601433-10 WURTS-VAS17002-27-30 0.12796	22-Nov-16	15:29:56
28	161122G2_28	IPA -11 AMSC 11/23/16	22-Nov-16	15:42:34
29	161122G2_29	ST161122G2-7 PFC CS3.5 16K1710	22-Nov-16	15:55:12
30	161122G2_30	IPA	22-Nov-16	16:07:50
31	161122G2_31	1601433-11 WURTS-VAS17002-37-40 0.1279	22-Nov-16	16:20:28

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Printed: Wednesday, November 23, 2016 4:29:29 PM Pacific Standard Time

Compound name: PFBA

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33	161122G2_33	1601433-13 WURTS-EB014JH-110916 0.12806	22-Nov-16	16:45:42
34	161122G2_34	1601433-14 WURTS-VAS11022-17-20 0.12232	22-Nov-16	16:58:17
35	161122G2_35	1601433-15 WURTS-VAS11022-17-20_FD 0.1...	22-Nov-16	17:10:54
36	161122G2_36	1601433-16 WURTS-VAS11022-27-30 0.12713	22-Nov-16	17:23:30
37	161122G2_37	1601433-17 WURTS-VAS11022-37-40 0.1263	22-Nov-16	17:36:06
38	161122G2_38	1601433-18 WURTS-VAS11022-47-450 0.128...	22-Nov-16	17:48:44
39	161122G2_39	IPA -12 AMS C 11/23/16	22-Nov-16	18:01:22
40	161122G2_40	ST161122G2_1 PFC CS3.5 16K1710	22-Nov-16	18:14:00
41	161122G2_41	IPA	22-Nov-16	18:26:38
42	161122G2_42	B6K0124-BS1 LCS 0.125	22-Nov-16	18:39:18
43	161122G2_43	B6K0124-BSD1 LCS Dup 0.125	22-Nov-16	18:51:56
44	161122G2_44	IPA	22-Nov-16	19:04:31
45	161122G2_45	B6K0124-BLK1 Method Blank 0.125	22-Nov-16	19:17:09
46	161122G2_46	1601365-07 SW-NRES031-FRB-10252016 0....	22-Nov-16	19:29:44
47	161122G2_47	1601365-09 SW-NRES032-FRB-10252016 0....	22-Nov-16	19:42:20
48	161122G2_48	1601398-02 SW-NRES020-FRB-110116 0.129...	22-Nov-16	19:54:56
49	161122G2_49	1601420-01 FTWG-MW-02-1116 0.10754	22-Nov-16	20:07:33
50	161122G2_50	1601420-02 OC-EB110816 0.13201	22-Nov-16	20:20:10
51	161122G2_51	1601420-03 OC-FB110816 0.1276	22-Nov-16	20:32:48
52	161122G2_52	IPA -13 AMS C 11/23/16	22-Nov-16	20:45:27
53	161122G2_53	ST161122G2_6 PFC CS3.5 16K1710	22-Nov-16	20:58:05
54	161122G2_54	IPA	22-Nov-16	21:10:43
55	161122G2_55	IPA	22-Nov-16	21:23:21
56	161122G2_56	PFTEDA QC F1	22-Nov-16	21:35:59
57	161122G2_57	PFTEDA QC F3	22-Nov-16	21:48:34
58	161122G2_58	PFTEDA QC F4	22-Nov-16	22:01:09
59	161122G2_59	IPA	22-Nov-16	22:13:45

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-53.qld

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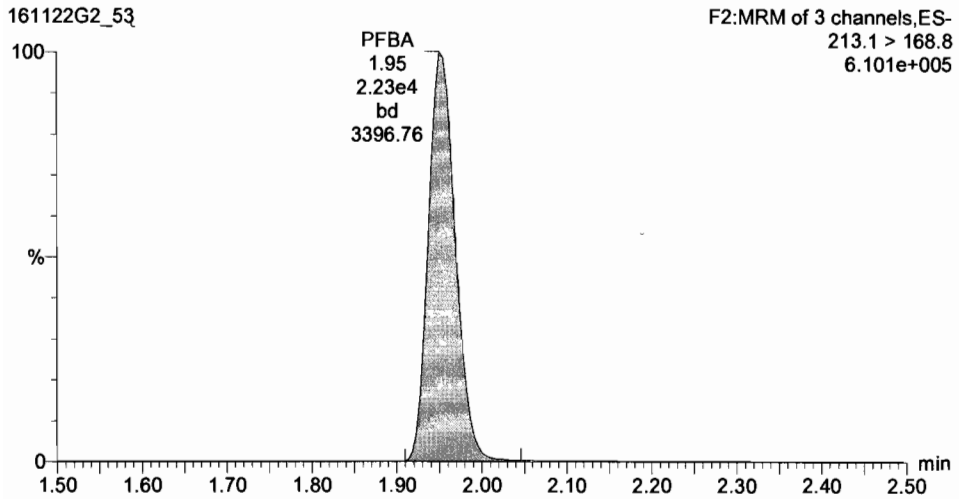
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

PFBA



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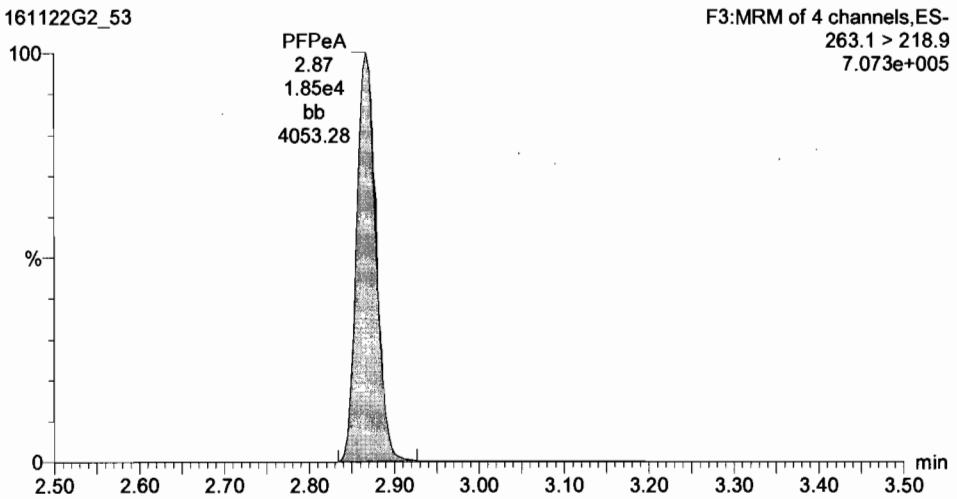

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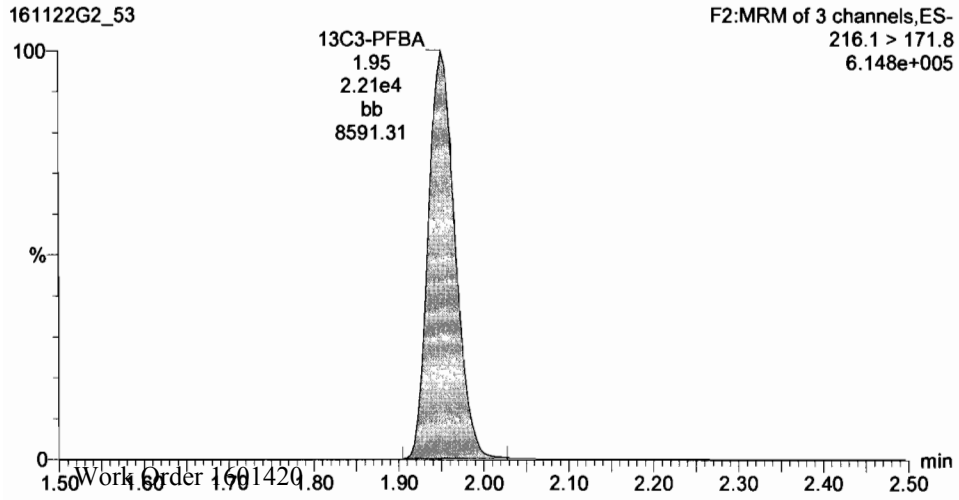

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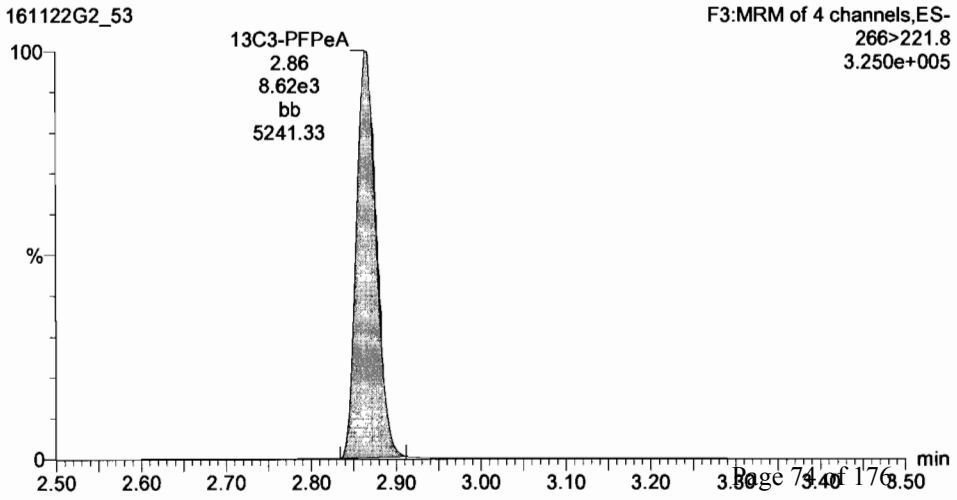

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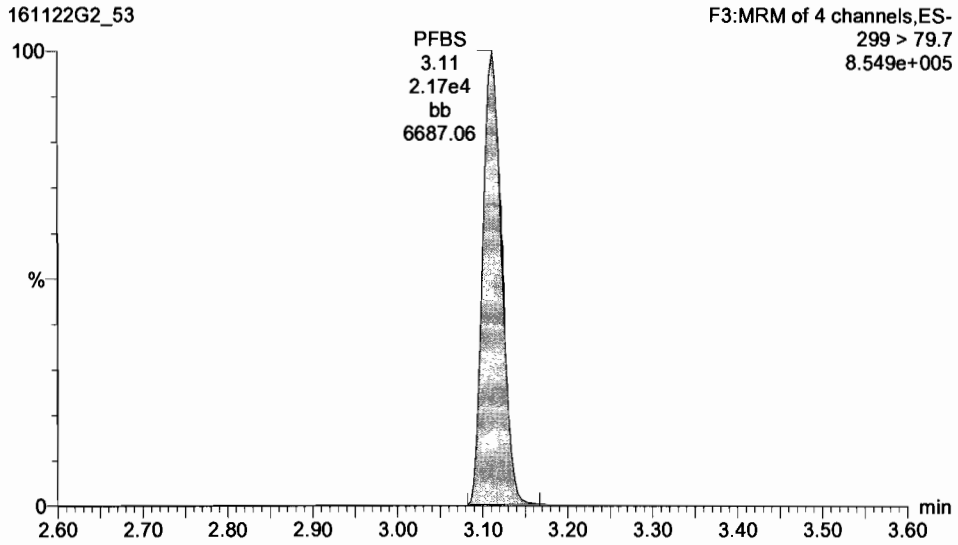
ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

Total PFBS



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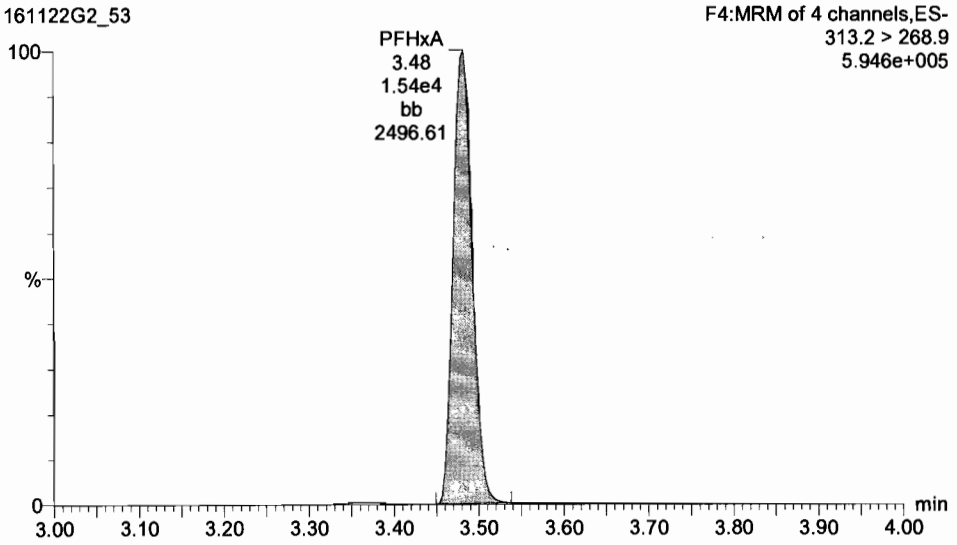

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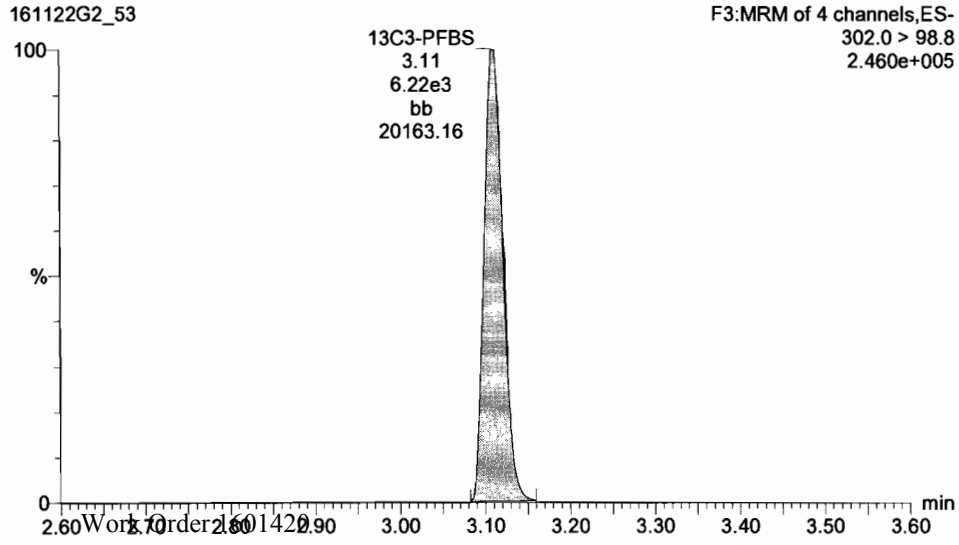

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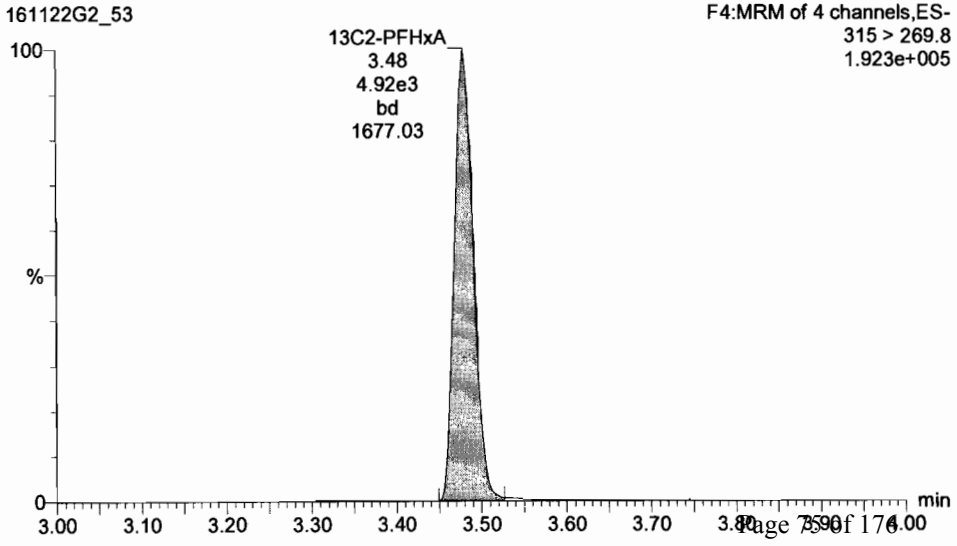

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ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

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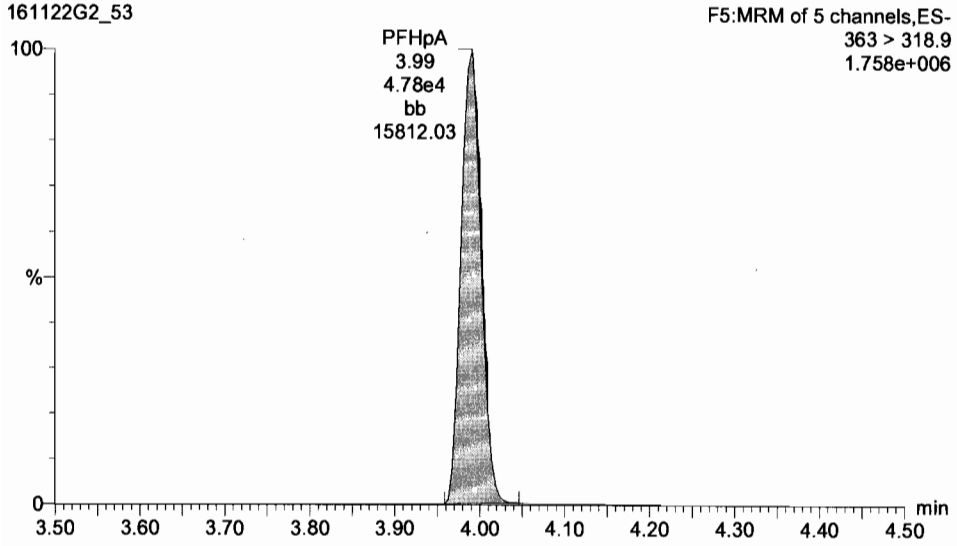

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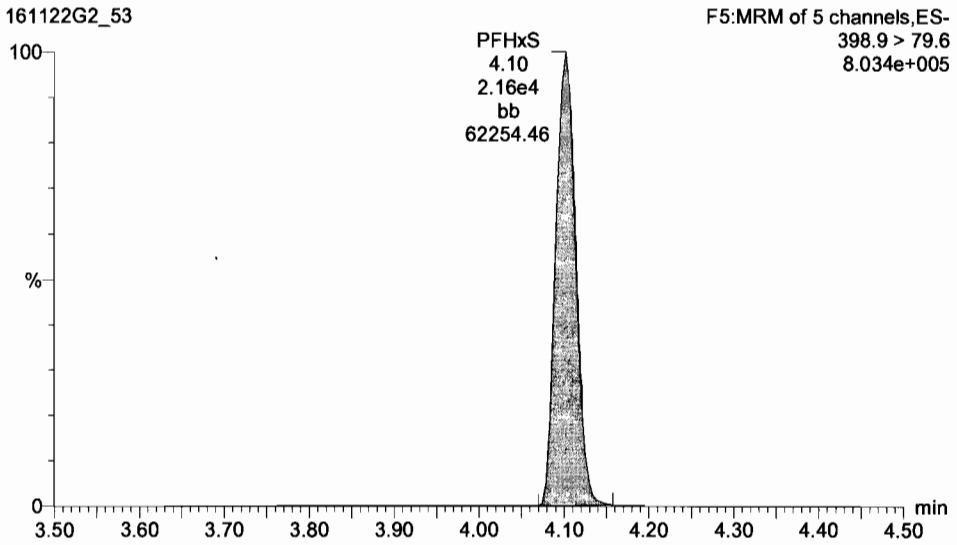

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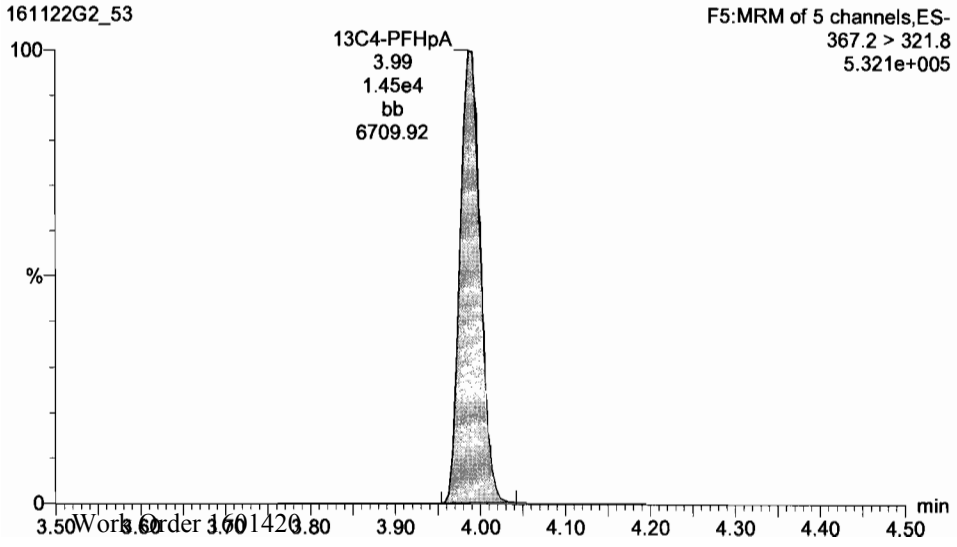
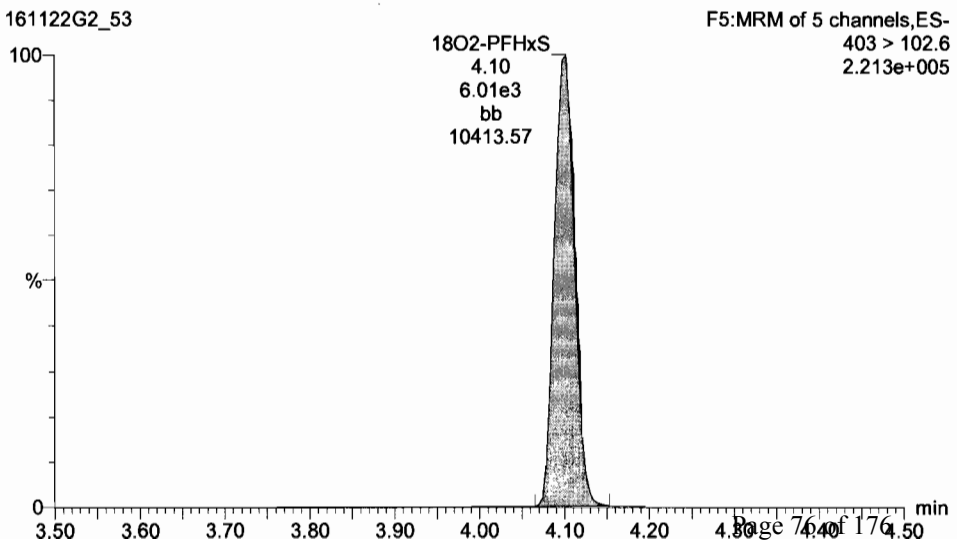


18O2-PFHxS



Vista Analytical Laboratory Q1

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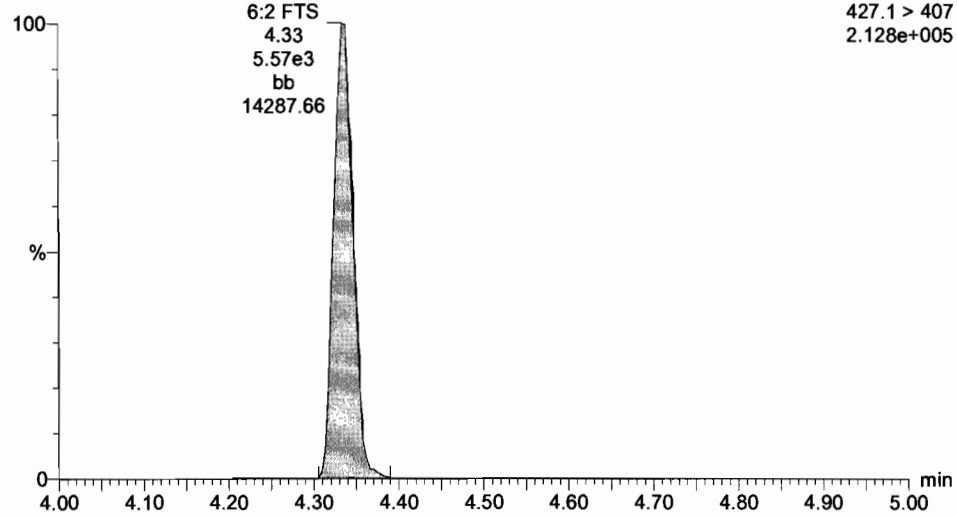
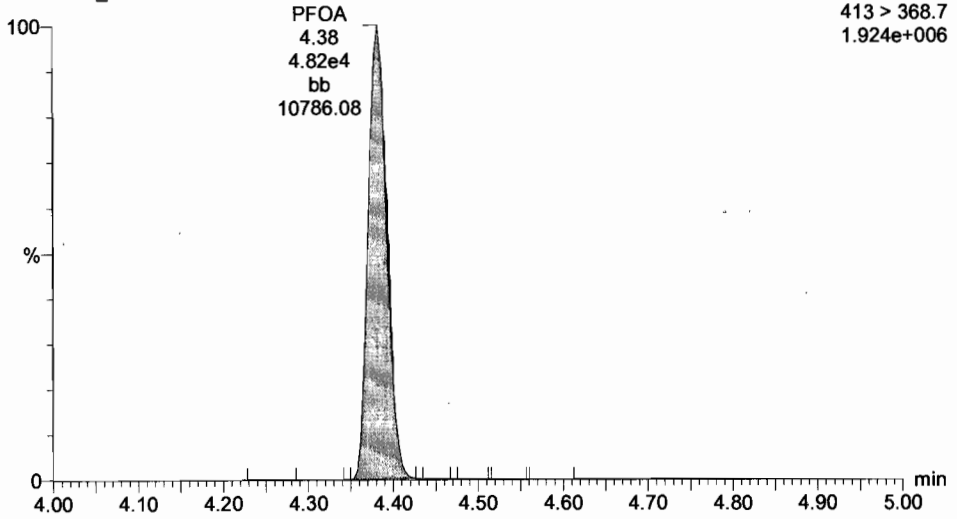
ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

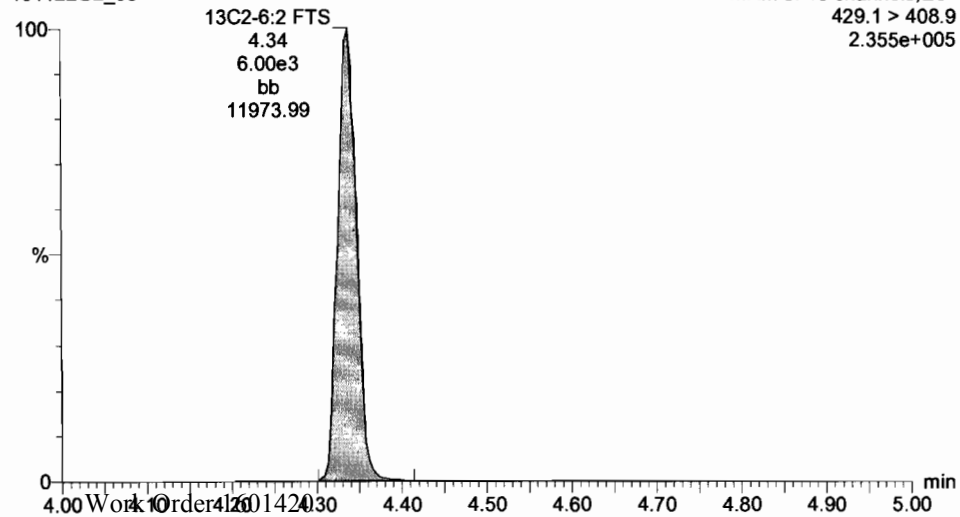
6:2 FTS



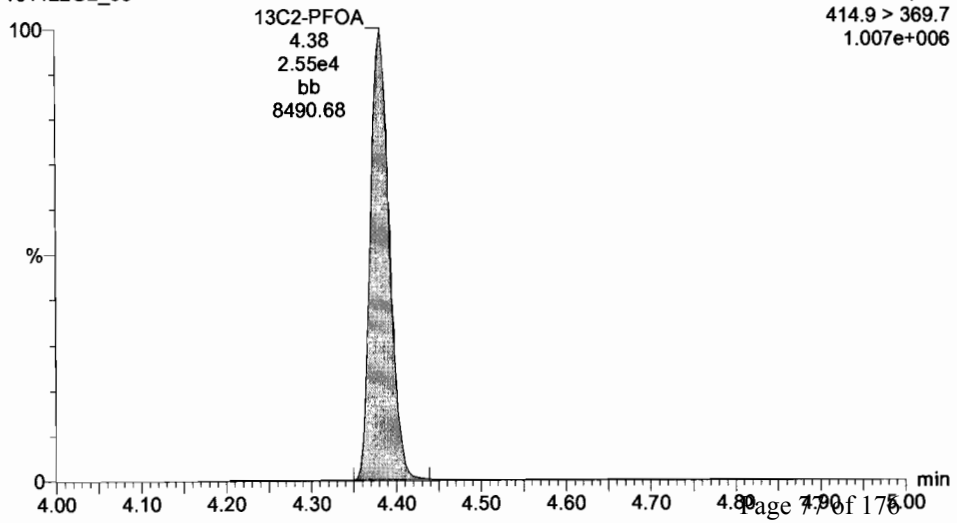
Total PFOA



13C2-6:2 FTS



13C2-PFOA

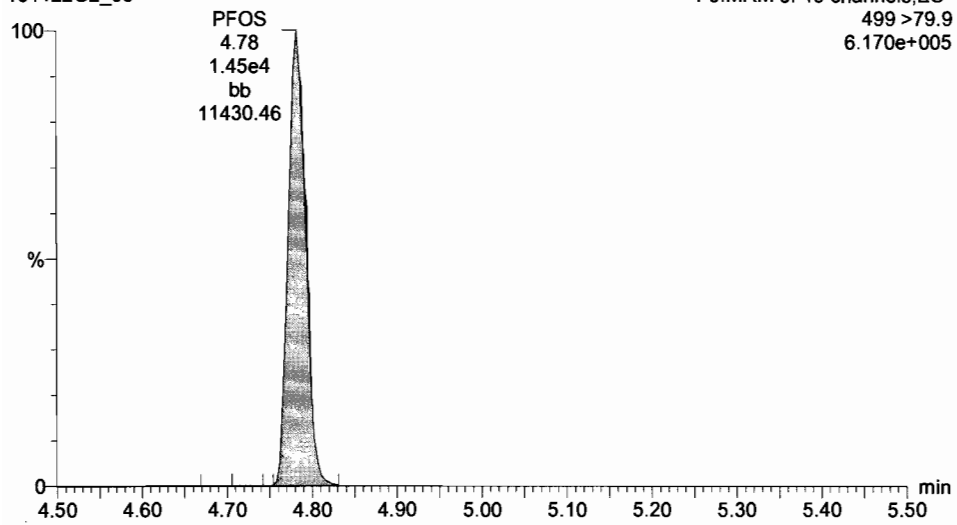


Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-53.qld

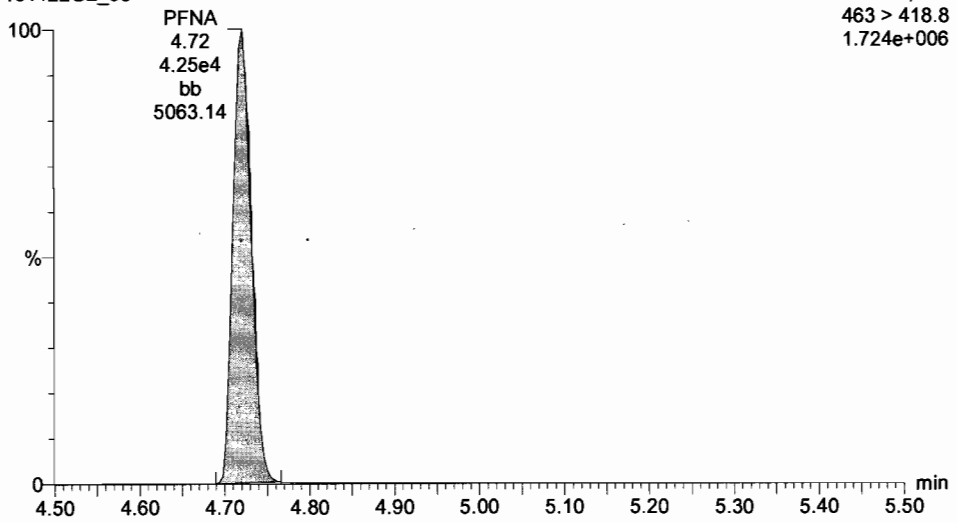
Last Altered: Wednesday, November 23, 2016 4:16:51 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:17:47 PM Pacific Standard Time

ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

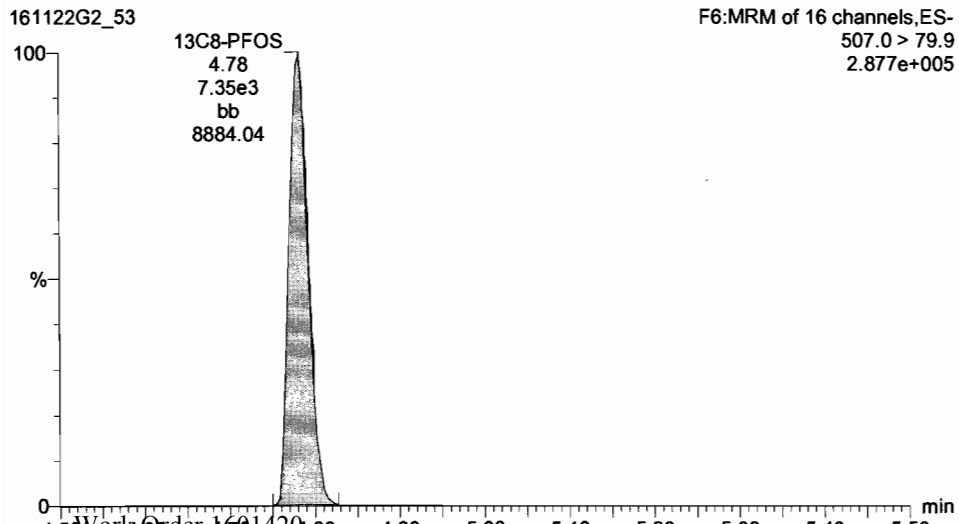
Total PFOS



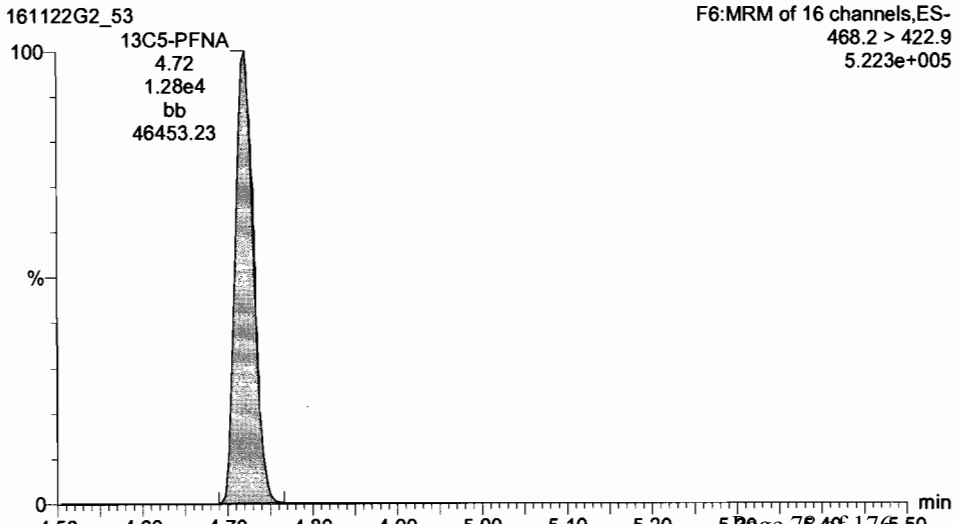
PFNA



13C8-PFOS



13C5-PFNA

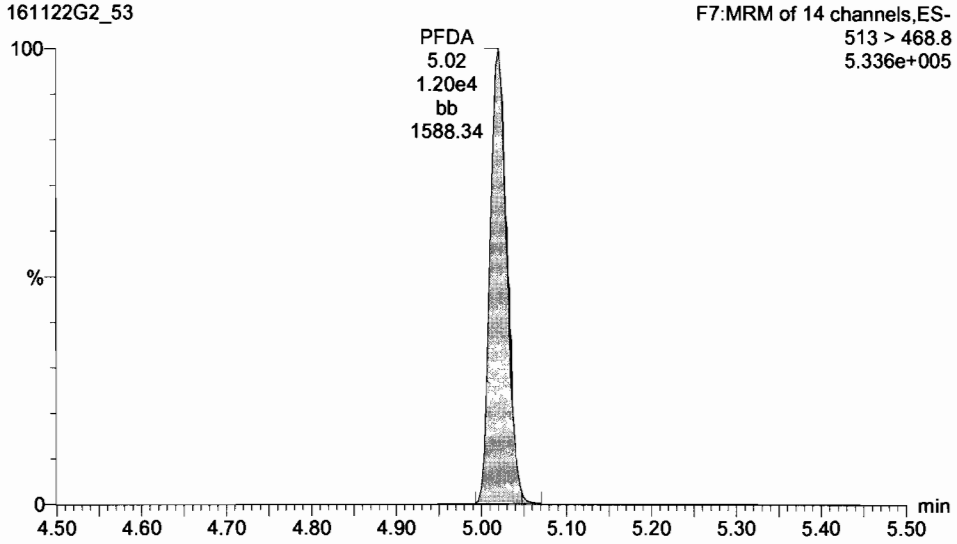


Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-53.qld

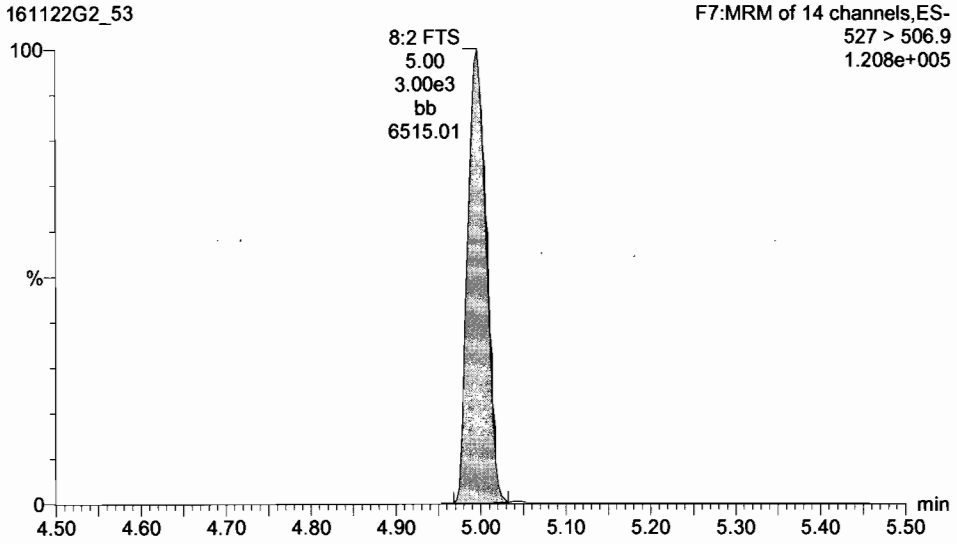
Last Altered: Wednesday, November 23, 2016 4:16:51 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:17:47 PM Pacific Standard Time

ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

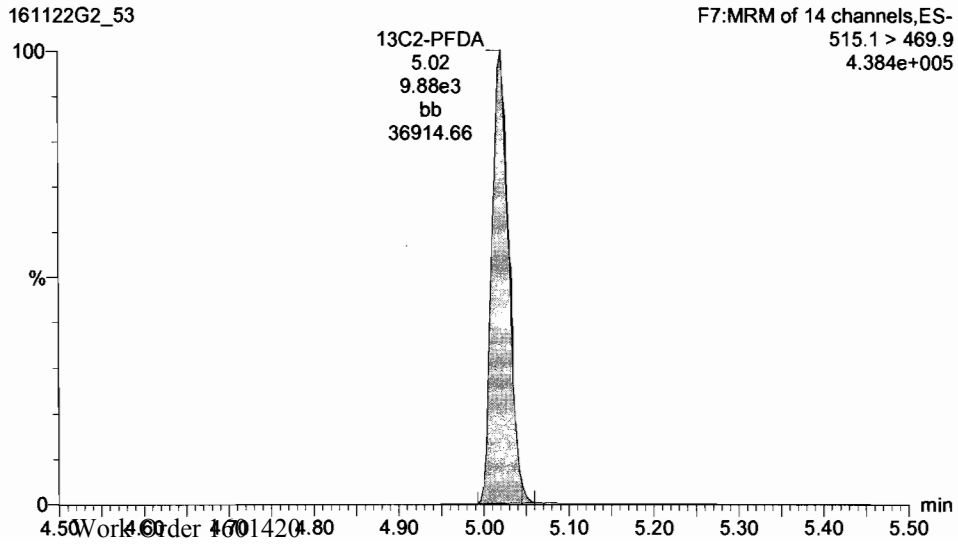
PFDA



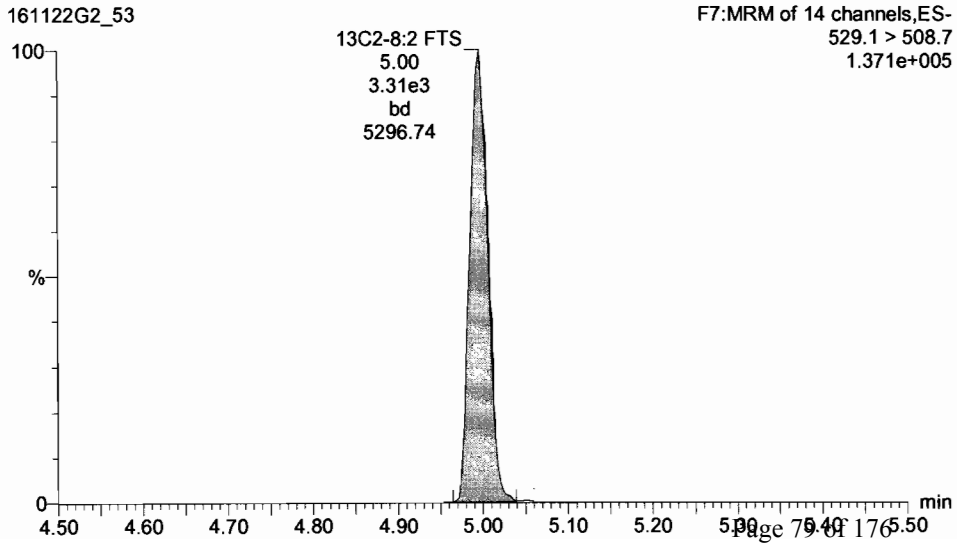
8:2 FTS



13C2-PFDA



13C2-8:2 FTS



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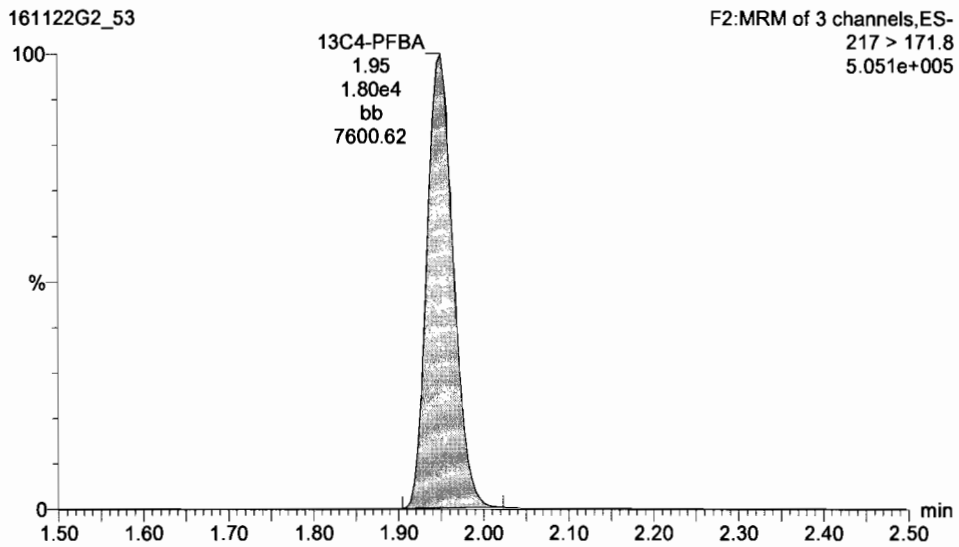
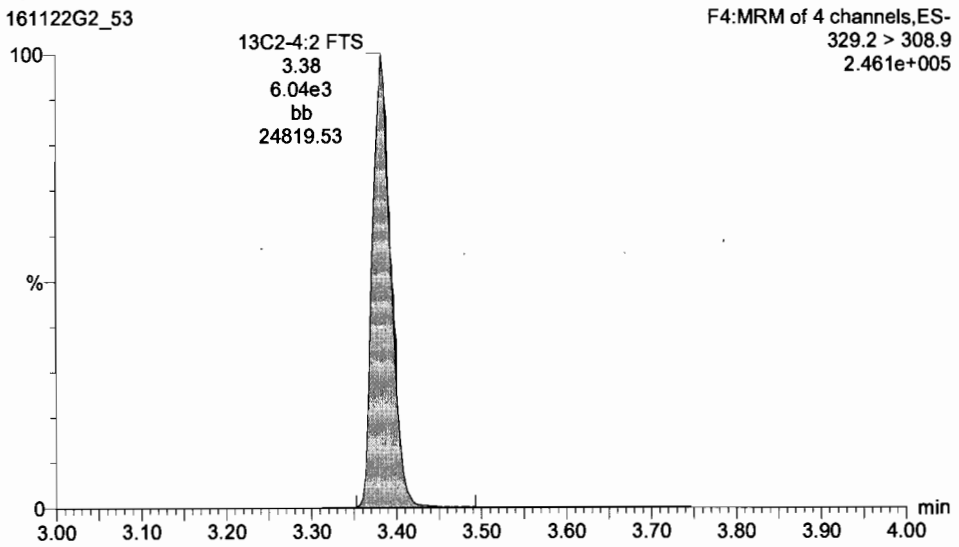
Last Altered: Wednesday, November 23, 2016 4:16:51 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:17:47 PM Pacific Standard Time

ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

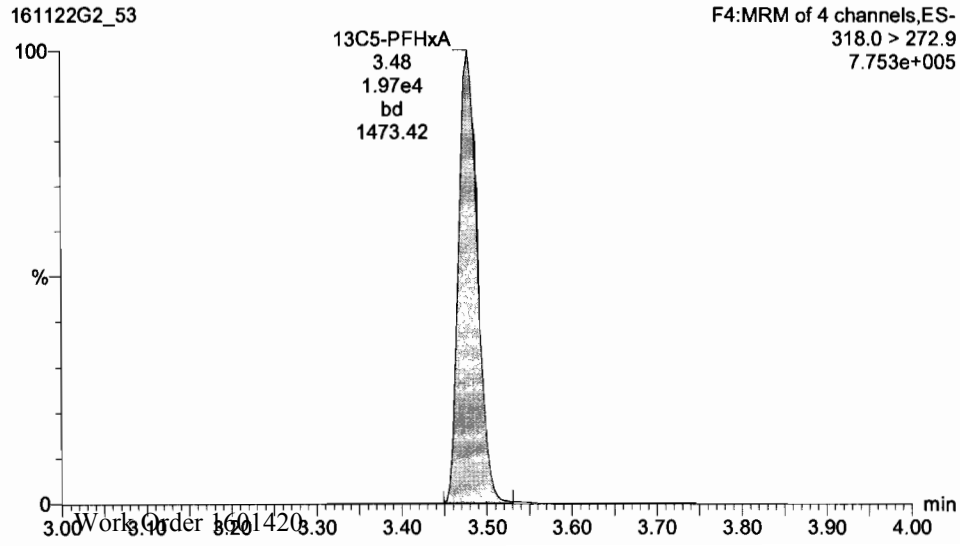
13C4-PFBA



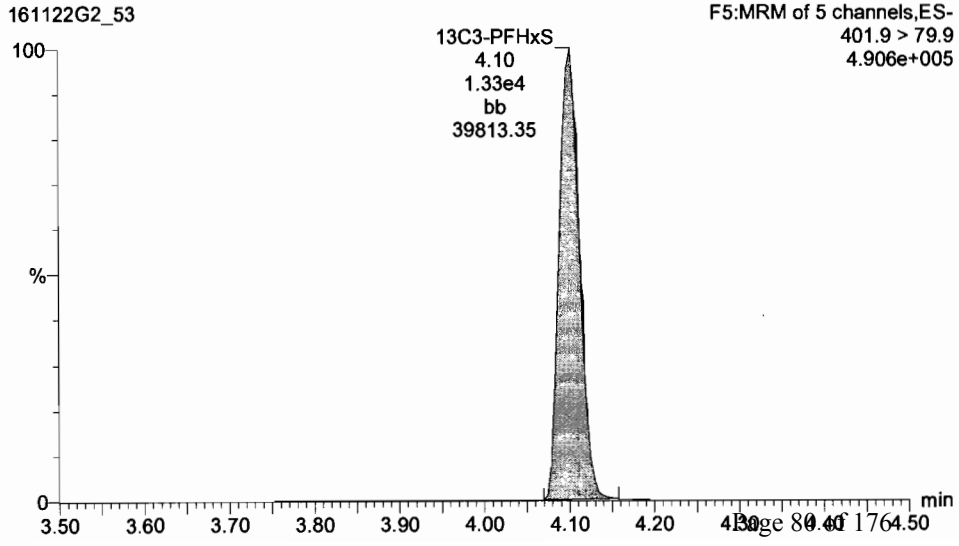
13C2-4:2 FTS



13C5-PFHxA



13C3-PFHxS

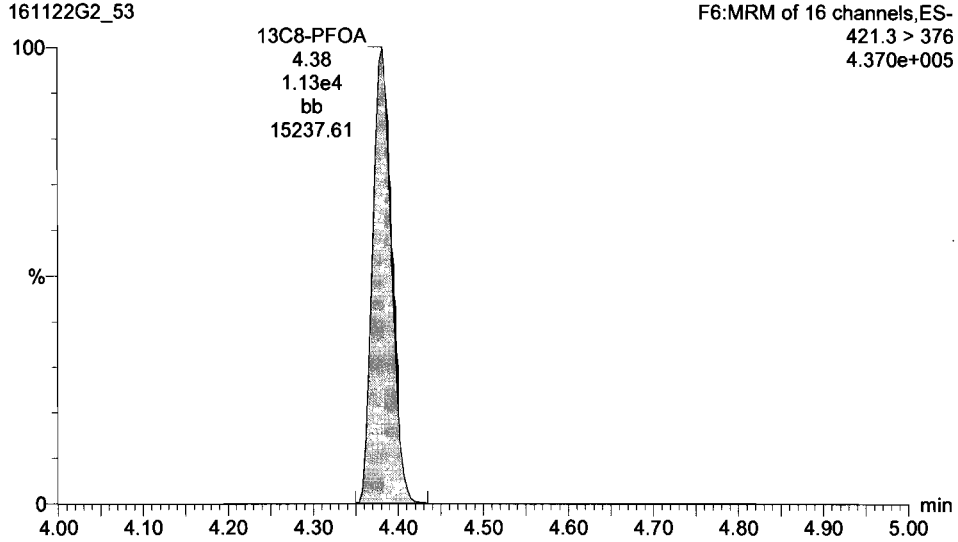


Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-53.qld

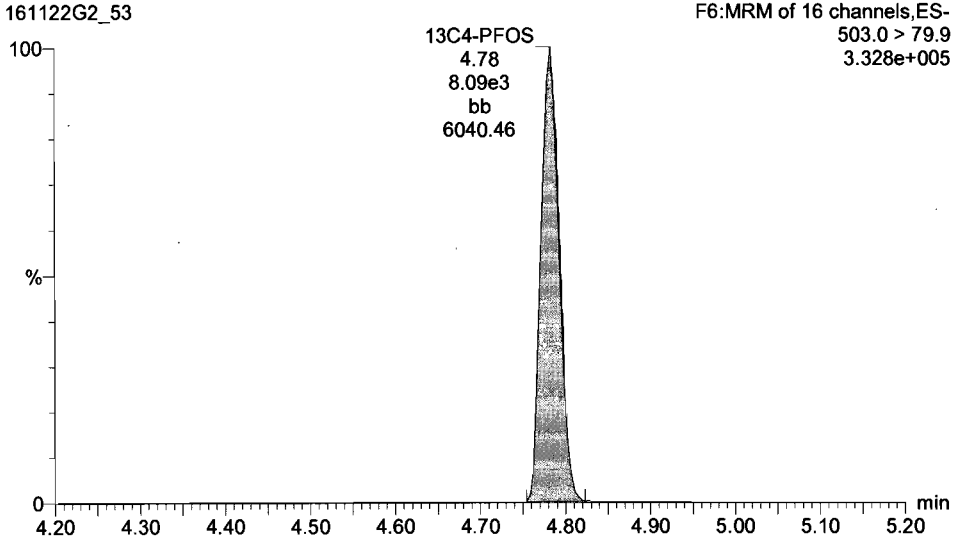
Last Altered: Wednesday, November 23, 2016 4:16:51 PM Pacific Standard Time
Printed: Wednesday, November 23, 2016 4:17:47 PM Pacific Standard Time

ID: ST161122G2-8 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A, Name: 161122G2_53, Date: 22-Nov-2016, Time: 20:58:05, Instrument: , Lab: , User:

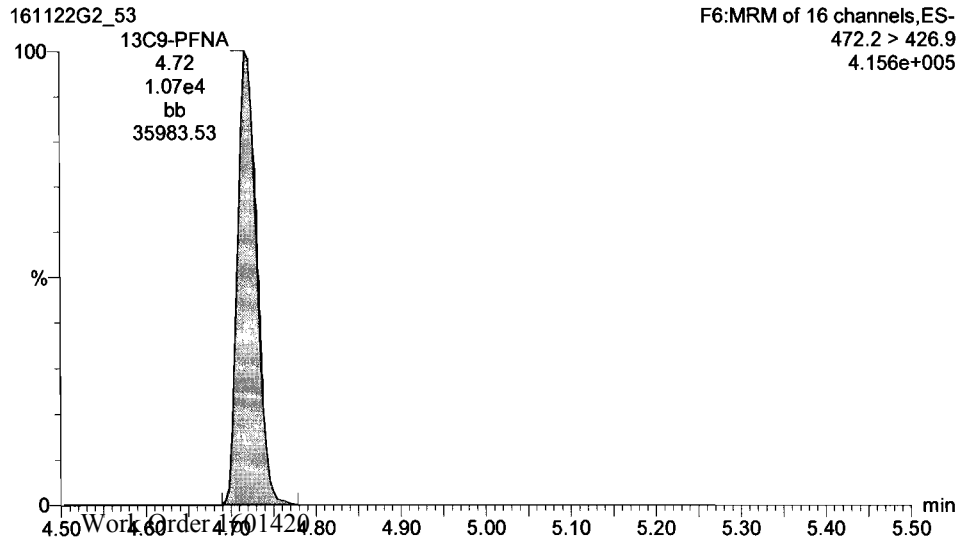
13C8-PFOA



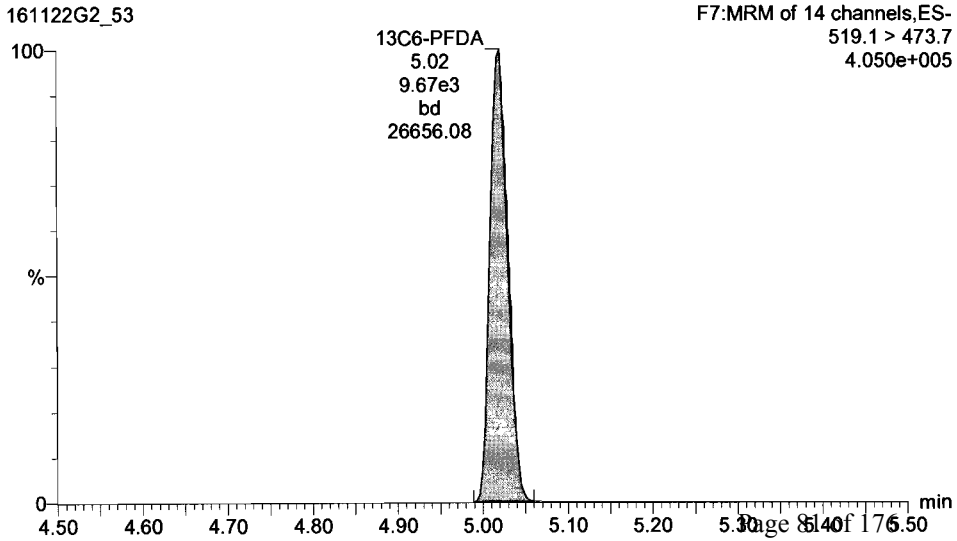
13C4-PFOS



13C9-PFNA



13C6-PFDA



INITIAL CALIBRATION

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:27:47 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:05
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA
Correlation coefficient: r = 0.999216, r^2 = 0.998432
Calibration curve: 0.492927 * x + -0.0410615
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.	RRF	%Dev
1	1 161122G2_2	0.500	1.93	4.29e2	2.07e4	0.608	0.518	21.7
2	2 161122G2_3	1.00	1.93	7.79e2	2.25e4	0.959	0.432	-4.1
3	3 161122G2_4	2.00	1.93	1.63e3	2.32e4	1.86	0.439	-6.8
4	4 161122G2_5	5.00	1.93	3.55e3	2.31e4	3.97	0.383	-20.6
5	5 161122G2_6	10.0	1.93	8.96e3	2.17e4	10.6	0.516	5.6
6	6 161122G2_7	25.0	1.93	1.94e4	1.87e4	26.4	0.519	5.5
7	7 161122G2_8	50.0	1.93	3.75e4	1.90e4	50.0	0.492	0.0
8	8 161122G2_9	75.0	1.93	5.74e4	1.98e4	73.5	0.482	-2.0
9	9 161122G2_10	100	1.93	7.24e4	1.83e4	101	0.496	0.7

AC
11/22/16

CS 4.5 & 5 excluded from 6:2FTS regression.

Compound name: PFPeA
Correlation coefficient: r = 0.999341, r^2 = 0.998683
Calibration curve: 1.00273 * x + -0.119981
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.	RRF	%Dev
1	1 161122G2_2	0.500	2.85	3.66e2	9.28e3	0.611	0.986	22.2
2	2 161122G2_3	1.00	2.85	6.80e2	9.67e3	0.996	0.879	-0.4
3	3 161122G2_4	2.00	2.86	1.32e3	9.90e3	1.79	0.836	-10.6
4	4 161122G2_5	5.00	2.85	3.20e3	1.02e4	4.02	0.782	-19.6
5	5 161122G2_6	10.0	2.85	8.05e3	9.55e3	10.6	1.05	6.4
6	6 161122G2_7	25.0	2.85	1.68e4	8.18e3	25.7	1.03	2.7
7	7 161122G2_8	50.0	2.85	3.26e4	8.27e3	49.3	0.986	-1.5
8	8 161122G2_9	75.0	2.85	4.96e4	8.14e3	76.0	1.01	1.4
9	9 161122G2_10	100	2.85	5.76e4	7.23e3	99.5	0.996	-0.5

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
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Compound name: PFBS
Correlation coefficient: r = 0.999283, r^2 = 0.998566
Calibration curve: 1.79216 * x + -0.145672
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.	RRF	%Dev
1	1 161122G2_2	0.500	3.10	4.84e2	6.26e3	0.620	1.93	24.1
2	2 161122G2_3	1.00	3.10	8.53e2	6.27e3	1.03	1.70	3.1
3	3 161122G2_4	2.00	3.10	1.59e3	6.78e3	1.72	1.47	-14.0
4	4 161122G2_5	5.00	3.10	4.15e3	7.36e3	4.01	1.41	-19.7
5	5 161122G2_6	10.0	3.10	9.73e3	6.40e3	10.7	1.90	7.0
6	6 161122G2_7	25.0	3.10	2.06e4	5.76e3	25.0	1.79	-0.1
7	7 161122G2_8	50.0	3.10	3.75e4	5.35e3	48.9	1.75	-2.2
8	8 161122G2_9	75.0	3.10	5.77e4	5.29e3	76.2	1.82	1.6
9	9 161122G2_10	100	3.10	7.03e4	4.89e3	100	1.80	0.4

Compound name: PFHxA
Correlation coefficient: r = 0.999245, r^2 = 0.998491
Calibration curve: 0.598427 * x + 0.0095449
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.	RRF	%Dev
1	1 161122G2_2	0.500	3.47	3.91e2	5.21e3	0.612	0.751	22.3
2	2 161122G2_3	1.00	3.47	6.55e2	5.44e3	0.989	0.602	-1.1
3	3 161122G2_4	2.00	3.47	1.13e3	5.54e3	1.69	0.512	-15.3
4	4 161122G2_5	5.00	3.47	2.82e3	5.55e3	4.23	0.508	-15.5
5	5 161122G2_6	10.0	3.47	6.63e3	5.30e3	10.4	0.625	4.3
6	6 161122G2_7	25.0	3.47	1.40e4	4.52e3	25.9	0.621	3.6
7	7 161122G2_8	50.0	3.47	2.69e4	4.31e3	52.1	0.624	4.2
8	8 161122G2_9	75.0	3.47	4.00e4	4.48e3	74.5	0.594	-0.7
9	9 161122G2_10	100	3.47	4.95e4	4.22e3	98.0	0.587	-2.0

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
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Compound name: PFHpA
Correlation coefficient: r = 0.999639, r^2 = 0.999279
Calibration curve: 1.55279 * x + -0.138431
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.	RRF	%Dev
1	1 161122G2_2	0.500	3.98	9.73e2	1.51e4	0.608	1.61	21.5
2	2 161122G2_3	1.00	3.98	1.74e3	1.58e4	0.979	1.38	-2.1
3	3 161122G2_4	2.00	3.98	3.68e3	1.71e4	1.82	1.34	-9.2
4	4 161122G2_5	5.00	3.98	8.49e3	1.63e4	4.28	1.30	-14.3
5	5 161122G2_6	10.0	3.98	2.03e4	1.60e4	10.3	1.58	3.0
6	6 161122G2_7	25.0	3.98	4.48e4	1.42e4	25.4	1.57	1.7
7	7 161122G2_8	50.0	3.98	8.30e4	1.36e4	49.2	1.52	-1.7
8	8 161122G2_9	75.0	3.98	1.27e5	1.35e4	75.5	1.56	0.7
9	9 161122G2_10	100	3.98	1.54e5	1.23e4	100	1.56	0.4

Compound name: PFHxS
Correlation coefficient: r = 0.998761, r^2 = 0.997524
Calibration curve: 1.72095 * x + -0.0266266
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.	RRF	%Dev
1	1 161122G2_2	0.500	4.09	4.64e2	6.01e3	0.576	1.93	15.3
2	2 161122G2_3	1.00	4.09	8.63e2	6.30e3	1.01	1.71	1.1
3	3 161122G2_4	2.00	4.09	1.70e3	7.02e3	1.78	1.51	-11.2
4	4 161122G2_5	5.00	4.09	3.79e3	6.33e3	4.36	1.49	-12.8
5	5 161122G2_6	10.0	4.09	8.81e3	6.15e3	10.4	1.79	4.1
6	6 161122G2_7	25.0	4.09	2.00e4	5.33e3	27.2	1.87	8.9
7	7 161122G2_8	50.0	4.09	3.53e4	5.46e3	47.1	1.62	-5.9
8	8 161122G2_9	75.0	4.09	5.41e4	5.36e3	73.4	1.68	-2.2
9	9 161122G2_10	100	4.09	7.00e4	4.95e3	103	1.77	2.7

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
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Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.978941
Calibration curve: 0.00135992 * x^2 + 0.414129 * x + -0.114975
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	0.500	4.33	4.92e1	6.03e3	0.523	0.204	4.6
2	2 161122G2_3	1.00	4.33	1.34e2	6.29e3	0.919	0.267	-8.1
3	3 161122G2_4	2.00	4.33	3.55e2	6.05e3	2.03	0.366	1.7
4	4 161122G2_5	5.00	4.32	9.08e2	6.94e3	4.17	0.327	-16.6
5	5 161122G2_6	10.0	4.32	1.95e3	5.43e3	10.7	0.449	7.3
6	6 161122G2_7	25.0	4.32	5.91e3	5.54e3	29.6	0.534	18.5
7	7 161122G2_8	50.0	4.32	9.32e3	5.35e3	45.9	0.436	-8.1
8	8 161122G2_9	75.0	4.32	1.61e4	7.05e3	58.2	0.381	-22.5
9	9 161122G2_10	100	4.32	2.02e4	6.58e3	74.5	0.383	-25.5

Compound name: PFOA
Correlation coefficient: r = 0.999524, r^2 = 0.999048
Calibration curve: 0.899906 * x + 0.0917344
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.	RRF	%Dev
1	1 161122G2_2	0.500	4.37	1.09e3	2.40e4	0.527	1.13	5.5
2	2 161122G2_3	1.00	4.37	2.24e3	2.87e4	0.983	0.976	-1.7
3	3 161122G2_4	2.00	4.37	4.08e3	2.79e4	1.93	0.915	-3.4
4	4 161122G2_5	5.00	4.37	9.24e3	2.85e4	4.40	0.811	-11.9
5	5 161122G2_6	10.0	4.37	2.04e4	2.60e4	10.8	0.982	8.1
6	6 161122G2_7	25.0	4.37	4.59e4	2.44e4	26.0	0.941	4.2
7	7 161122G2_8	50.0	4.37	8.53e4	2.35e4	50.3	0.908	0.7
8	8 161122G2_9	75.0	4.37	1.30e5	2.38e4	75.6	0.908	0.8
9	9 161122G2_10	100	4.37	1.53e5	2.17e4	97.9	0.882	-2.1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
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Compound name: PFHpS
Correlation coefficient: r = 0.997800, r^2 = 0.995604
Calibration curve: 0.0921515 * x + -0.0228444
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.	RRF	%Dev
1	1 161122G2_2	0.500	4.45	5.82e1	2.40e4	0.577	0.0606	15.3
2	2 161122G2_3	1.00	4.45	1.24e2	2.87e4	0.834	0.0540	-16.6
3	3 161122G2_4	2.00	4.45	3.98e2	2.79e4	2.18	0.0892	9.2
4	4 161122G2_5	5.00	4.45	9.47e2	2.85e4	4.76	0.0832	-4.8
5	5 161122G2_6	10.0	4.45	1.65e3	2.60e4	8.86	0.0794	-11.4
6	6 161122G2_7	25.0	4.45	5.10e3	2.44e4	28.6	0.105	14.5
7	7 161122G2_8	50.0	4.45	8.06e3	2.35e4	46.8	0.0858	-6.4
8	8 161122G2_9	75.0	4.45	1.27e4	2.38e4	72.8	0.0891	-3.0
9	9 161122G2_10	100	4.45	1.64e4	2.17e4	103	0.0948	3.1

Compound name: PFOS
Correlation coefficient: r = 0.996761, r^2 = 0.993532
Calibration curve: 0.83439 * x + -0.165838
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.	RRF	%Dev
1	1 161122G2_2	0.500	4.78	1.21e2	5.26e3	0.543	0.574	8.5
2	2 161122G2_3	1.00	4.77	3.67e2	7.35e3	0.947	0.624	-5.3
3	3 161122G2_4	2.00	4.77	8.56e2	8.95e3	1.63	0.598	-18.4
4	4 161122G2_5	5.00	4.77	2.17e3	6.87e3	4.93	0.790	-1.4
5	5 161122G2_6	10.0	4.77	4.69e3	7.23e3	9.90	0.810	-1.0
6	6 161122G2_7	25.0	4.77	1.42e4	6.95e3	30.8	1.02	23.3
7	7 161122G2_8	50.0	4.78	1.92e4	5.80e3	49.9	0.830	-0.1
8	8 161122G2_9	75.0	4.77	3.52e4	7.19e3	73.6	0.817	-1.8
9	9 161122G2_10	100	4.77	4.44e4	6.93e3	96.1	0.800	-3.9

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Compound name: PFNA
Correlation coefficient: r = 0.997674, r^2 = 0.995354
Calibration curve: 1.64181 * x + -0.17063
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.	RRF	%Dev
1	1 161122G2_2	0.500	4.72	5.63e2	1.06e4	0.509	1.33	1.7
2	2 161122G2_3	1.00	4.71	1.61e3	1.33e4	1.02	1.51	2.5
3	3 161122G2_4	2.00	4.71	3.31e3	1.23e4	2.16	1.68	7.8
4	4 161122G2_5	5.00	4.71	7.19e3	1.28e4	4.37	1.40	-12.5
5	5 161122G2_6	10.0	4.71	1.72e4	1.33e4	10.0	1.63	0.1
6	6 161122G2_7	25.0	4.71	4.06e4	1.21e4	25.6	1.67	2.3
7	7 161122G2_8	50.0	4.71	6.88e4	1.04e4	50.5	1.65	1.0
8	8 161122G2_9	75.0	4.71	1.10e5	1.23e4	68.0	1.49	-9.3
9	9 161122G2_10	100	4.71	1.49e5	1.07e4	106	1.74	6.3

Compound name: PFDA
Correlation coefficient: r = 0.998669, r^2 = 0.997340
Calibration curve: 0.596457 * x + -0.0200723
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.	RRF	%Dev
1	1 161122G2_2	0.500	5.01	1.30e2	6.01e3	0.486	0.540	-2.7
2	2 161122G2_3	1.00	5.01	3.72e2	8.51e3	0.949	0.546	-5.1
3	3 161122G2_4	2.00	5.01	8.65e2	8.73e3	2.11	0.620	5.6
4	4 161122G2_5	5.00	5.01	1.70e3	8.07e3	4.44	0.526	-11.1
5	5 161122G2_6	10.0	5.01	3.83e3	7.02e3	11.5	0.683	14.8
6	6 161122G2_7	25.0	5.01	1.25e4	1.01e4	26.1	0.622	4.4
7	7 161122G2_8	50.0	5.01	1.45e4	6.60e3	46.1	0.550	-7.7
8	8 161122G2_9	75.0	5.01	3.19e4	8.88e3	75.4	0.599	0.5
9	9 161122G2_10	100	5.01	4.34e4	8.96e3	101	0.605	1.5

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Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.984052
Calibration curve: -0.000479329 * x^2 + 0.502189 * x + 0.00235356
Response type: Internal Std (Ref 25), 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.	RRF	%Dev
1	1 161122G2_2	0.500	4.99	4.13e1	2.12e3	0.479	0.486	-4.1
2	2 161122G2_3	1.00	4.99	1.45e2	3.66e3	0.984	0.496	-1.6
3	3 161122G2_4	2.00	4.99	2.64e2	2.69e3	2.44	0.613	22.1
4	4 161122G2_5	5.00	4.99	4.56e2	2.74e3	4.16	0.416	-16.8
5	5 161122G2_6	10.0	4.99	1.14e3	3.15e3	9.07	0.452	-9.3
6	6 161122G2_7	25.0	4.99	4.23e3	3.62e3	29.9	0.584	19.7
7	7 161122G2_8	50.0	4.99	4.24e3	2.69e3	40.8	0.394	-18.4
8	8 161122G2_9	75.0	4.99	1.23e4	3.97e3	84.1	0.518	12.1
9	9 161122G2_10	100	4.99	1.62e4	4.58e3	96.8	0.441	-3.2

Compound name: 13C3-PFBA
Response Factor: 1.20506
RRF SD: 0.0553973, Relative SD: 4.59706
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	1.93	2.07e4	1.76e4	12.2	1.18	-2.2
2	2 161122G2_3	12.5	1.93	2.25e4	1.85e4	12.6	1.22	1.0
3	3 161122G2_4	12.5	1.93	2.32e4	1.80e4	13.4	1.29	7.0
4	4 161122G2_5	12.5	1.93	2.31e4	1.91e4	12.6	1.21	0.8
5	5 161122G2_6	12.5	1.93	2.17e4	1.69e4	13.3	1.29	6.8
6	6 161122G2_7	12.5	1.93	1.87e4	1.58e4	12.3	1.18	-2.0
7	7 161122G2_8	12.5	1.93	1.90e4	1.64e4	12.1	1.16	-3.6
8	8 161122G2_9	12.5	1.93	1.98e4	1.66e4	12.4	1.20	-0.7
9	9 161122G2_10	12.5	1.93	1.83e4	1.63e4	11.6	1.12	-7.1

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Compound name: 13C3-PFPeA
Response Factor: 0.447597
RRF SD: 0.0175301, Relative SD: 3.9165
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	2.85	9.28e3	2.07e4	12.5	0.448	0.1
2	2 161122G2_3	12.5	2.85	9.67e3	2.17e4	12.4	0.445	-0.6
3	3 161122G2_4	12.5	2.85	9.90e3	2.11e4	13.1	0.469	4.8
4	4 161122G2_5	12.5	2.85	1.02e4	2.20e4	13.0	0.466	4.1
5	5 161122G2_6	12.5	2.85	9.55e3	2.15e4	12.4	0.445	-0.6
6	6 161122G2_7	12.5	2.85	8.18e3	1.89e4	12.1	0.434	-3.1
7	7 161122G2_8	12.5	2.85	8.27e3	1.78e4	13.0	0.465	3.9
8	8 161122G2_9	12.5	2.85	8.14e3	1.84e4	12.4	0.443	-1.0
9	9 161122G2_10	12.5	2.85	7.23e3	1.75e4	11.6	0.414	-7.5

Compound name: 13C3-PFBS
Response Factor: 0.302055
RRF SD: 0.0171236, Relative SD: 5.66905
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	3.10	6.26e3	2.07e4	12.5	0.302	0.1
2	2 161122G2_3	12.5	3.10	6.27e3	2.17e4	11.9	0.288	-4.6
3	3 161122G2_4	12.5	3.10	6.78e3	2.11e4	13.3	0.321	6.4
4	4 161122G2_5	12.5	3.10	7.36e3	2.20e4	13.8	0.335	10.8
5	5 161122G2_6	12.5	3.10	6.40e3	2.15e4	12.3	0.298	-1.4
6	6 161122G2_7	12.5	3.10	5.76e3	1.89e4	12.6	0.306	1.1
7	7 161122G2_8	12.5	3.10	5.35e3	1.78e4	12.5	0.301	-0.4
8	8 161122G2_9	12.5	3.10	5.29e3	1.84e4	11.9	0.288	-4.7
9	9 161122G2_10	12.5	3.10	4.89e3	1.75e4	11.6	0.280	-7.3

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Compound name: 13C2-PFHxA
Response Factor: 0.619528
RRF SD: 0.0178176, Relative SD: 2.876
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	5.00	3.47	5.21e3	2.07e4	5.07	0.628	1.4
2	2 161122G2_3	5.00	3.47	5.44e3	2.17e4	5.05	0.626	1.0
3	3 161122G2_4	5.00	3.47	5.54e3	2.11e4	5.29	0.656	5.9
4	4 161122G2_5	5.00	3.47	5.55e3	2.20e4	5.09	0.631	1.8
5	5 161122G2_6	5.00	3.47	5.30e3	2.15e4	4.98	0.617	-0.4
6	6 161122G2_7	5.00	3.47	4.52e3	1.89e4	4.83	0.598	-3.4
7	7 161122G2_8	5.00	3.47	4.31e3	1.78e4	4.89	0.606	-2.2
8	8 161122G2_9	5.00	3.47	4.48e3	1.84e4	4.92	0.610	-1.5
9	9 161122G2_10	5.00	3.47	4.22e3	1.75e4	4.87	0.603	-2.6

Compound name: 13C4-PFHpA
Response Factor: 1.13869
RRF SD: 0.046436, Relative SD: 4.078
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	3.98	1.51e4	1.32e4	12.6	1.14	0.5
2	2 161122G2_3	12.5	3.97	1.58e4	1.36e4	12.7	1.16	1.9
3	3 161122G2_4	12.5	3.98	1.71e4	1.42e4	13.2	1.21	5.8
4	4 161122G2_5	12.5	3.97	1.63e4	1.48e4	12.1	1.10	-3.3
5	5 161122G2_6	12.5	3.97	1.60e4	1.44e4	12.2	1.11	-2.4
6	6 161122G2_7	12.5	3.97	1.42e4	1.23e4	12.7	1.16	1.7
7	7 161122G2_8	12.5	3.97	1.36e4	1.16e4	12.8	1.17	2.7
8	8 161122G2_9	12.5	3.97	1.35e4	1.17e4	12.7	1.15	1.3
9	9 161122G2_10	12.5	3.97	1.23e4	1.18e4	11.5	1.05	-8.2

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Compound name: 18O2-PFHxS
Response Factor: 0.449434
RRF SD: 0.0241405, Relative SD: 5.37132
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.09	6.01e3	1.32e4	12.6	0.455	1.1
2	2 161122G2_3	12.5	4.09	6.30e3	1.36e4	12.9	0.463	3.1
3	3 161122G2_4	12.5	4.09	7.02e3	1.42e4	13.7	0.494	9.8
4	4 161122G2_5	12.5	4.09	6.33e3	1.48e4	11.9	0.428	-4.8
5	5 161122G2_6	12.5	4.09	6.15e3	1.44e4	11.9	0.427	-5.0
6	6 161122G2_7	12.5	4.09	5.33e3	1.23e4	12.1	0.434	-3.4
7	7 161122G2_8	12.5	4.08	5.46e3	1.16e4	13.0	0.468	4.2
8	8 161122G2_9	12.5	4.09	5.36e3	1.17e4	12.7	0.456	1.5
9	9 161122G2_10	12.5	4.09	4.95e3	1.18e4	11.7	0.420	-6.6

Compound name: 13C2-6:2 FTS
Response Factor: 1.07309
RRF SD: 0.0967215, Relative SD: 9.01333
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.33	6.03e3	5.89e3	11.9	1.02	-4.5
2	2 161122G2_3	12.5	4.33	6.29e3	5.82e3	12.6	1.08	0.7
3	3 161122G2_4	12.5	4.33	6.05e3	5.56e3	12.7	1.09	1.3
4	4 161122G2_5	12.5	4.32	6.94e3	5.84e3	13.8	1.19	10.8
5	5 161122G2_6	12.5	4.32	5.43e3	5.76e3	11.0	0.942	-12.2
6	6 161122G2_7	12.5	4.32	5.54e3	4.77e3	13.5	1.16	8.2
7	7 161122G2_8	12.5	4.32	5.35e3	5.78e3	10.8	0.925	-13.8
8	8 161122G2_9	12.5	4.32	7.05e3	5.95e3	13.8	1.18	10.3
9	9 161122G2_10	12.5	4.32	6.58e3	6.18e3	12.4	1.06	-0.8

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Compound name: 13C2-PFOA
Response Factor: 2.26193
RRF SD: 0.103705, Relative SD: 4.58481
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.37	2.40e4	1.14e4	11.7	2.12	-6.4
2	2 161122G2_3	12.5	4.37	2.87e4	1.22e4	13.0	2.36	4.4
3	3 161122G2_4	12.5	4.37	2.79e4	1.22e4	12.6	2.28	0.8
4	4 161122G2_5	12.5	4.37	2.85e4	1.19e4	13.3	2.40	6.0
5	5 161122G2_6	12.5	4.37	2.60e4	1.12e4	12.9	2.33	3.0
6	6 161122G2_7	12.5	4.37	2.44e4	1.17e4	11.5	2.09	-7.7
7	7 161122G2_8	12.5	4.37	2.35e4	1.03e4	12.6	2.28	0.9
8	8 161122G2_9	12.5	4.37	2.38e4	1.06e4	12.4	2.24	-1.2
9	9 161122G2_10	12.5	4.37	2.17e4	9.56e3	12.5	2.27	0.2

Compound name: 13C8-PFOS
Response Factor: 0.943547
RRF SD: 0.0953243, Relative SD: 10.1028
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.77	5.26e3	6.09e3	11.4	0.863	-8.5
2	2 161122G2_3	12.5	4.77	7.35e3	8.00e3	12.2	0.918	-2.7
3	3 161122G2_4	12.5	4.77	8.95e3	7.63e3	15.5	1.17	24.2
4	4 161122G2_5	12.5	4.77	6.87e3	7.71e3	11.8	0.892	-5.5
5	5 161122G2_6	12.5	4.77	7.23e3	7.12e3	13.5	1.02	7.6
6	6 161122G2_7	12.5	4.77	6.95e3	7.59e3	12.1	0.917	-2.9
7	7 161122G2_8	12.5	4.77	5.80e3	6.40e3	12.0	0.906	-4.0
8	8 161122G2_9	12.5	4.77	7.19e3	7.90e3	12.1	0.910	-3.5
9	9 161122G2_10	12.5	4.77	6.93e3	7.73e3	11.9	0.898	-4.9

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Compound name: 13C5-PFNA
Response Factor: 1.08198
RRF SD: 0.109173, Relative SD: 10.0901
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.71	1.06e4	9.86e3	12.4	1.07	-0.7
2	2 161122G2_3	12.5	4.71	1.33e4	1.10e4	14.0	1.21	11.8
3	3 161122G2_4	12.5	4.71	1.23e4	1.19e4	12.0	1.04	-4.3
4	4 161122G2_5	12.5	4.71	1.28e4	1.06e4	14.0	1.21	12.3
5	5 161122G2_6	12.5	4.71	1.33e4	1.18e4	13.0	1.13	4.1
6	6 161122G2_7	12.5	4.71	1.21e4	1.04e4	13.4	1.16	7.4
7	7 161122G2_8	12.5	4.71	1.04e4	1.14e4	10.5	0.909	-16.0
8	8 161122G2_9	12.5	4.71	1.23e4	1.16e4	12.3	1.07	-1.4
9	9 161122G2_10	12.5	4.71	1.07e4	1.14e4	10.8	0.938	-13.3

Compound name: 13C2-PFDA
Response Factor: 1.01921
RRF SD: 0.0876435, Relative SD: 8.59913
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	5.01	6.01e3	6.35e3	11.6	0.947	-7.1
2	2 161122G2_3	12.5	5.01	8.51e3	9.85e3	10.6	0.864	-15.2
3	3 161122G2_4	12.5	5.01	8.73e3	8.39e3	12.8	1.04	2.1
4	4 161122G2_5	12.5	5.01	8.07e3	7.46e3	13.3	1.08	6.1
5	5 161122G2_6	12.5	5.01	7.02e3	6.59e3	13.1	1.07	4.5
6	6 161122G2_7	12.5	5.01	1.01e4	9.85e3	12.5	1.02	0.3
7	7 161122G2_8	12.5	5.01	6.60e3	5.70e3	14.2	1.16	13.6
8	8 161122G2_9	12.5	5.01	8.88e3	8.46e3	12.9	1.05	2.9
9	9 161122G2_10	12.5	5.01	8.96e3	9.48e3	11.6	0.945	-7.3

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Compound name: 13C2-8:2 FTS
Response Factor: 0.568768
RRF SD: 0.137212, Relative SD: 24.1245
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.99	2.12e3	5.89e3	7.93	0.361	-36.6
2	2 161122G2_3	12.5	4.99	3.66e3	5.82e3	13.8	0.629	10.6
3	3 161122G2_4	12.5	4.99	2.69e3	5.56e3	10.6	0.483	-15.1
4	4 161122G2_5	12.5	4.99	2.74e3	5.84e3	10.3	0.468	-17.7
5	5 161122G2_6	12.5	4.99	3.15e3	5.76e3	12.0	0.546	-4.1
6	6 161122G2_7	12.5	4.99	3.62e3	4.77e3	16.7	0.759	33.4
7	7 161122G2_8	12.5	4.99	2.69e3	5.78e3	10.2	0.466	-18.0
8	8 161122G2_9	12.5	4.99	3.97e3	5.95e3	14.7	0.667	17.3
9	9 161122G2_10	12.5	4.99	4.58e3	6.18e3	16.3	0.740	30.1

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.	RRF	%Dev
1	1 161122G2_2	12.5	1.93	1.76e4	1.76e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	1.92	1.85e4	1.85e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	1.93	1.80e4	1.80e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	1.93	1.91e4	1.91e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	1.93	1.69e4	1.69e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	1.93	1.58e4	1.58e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	1.93	1.64e4	1.64e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	1.93	1.66e4	1.66e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	1.92	1.63e4	1.63e4	12.5	1.00	0.0

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Compound name: 13C2-4:2 FTS
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.	RRF	%Dev
1	1 161122G2_2	12.5	3.37	5.89e3	5.89e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	3.37	5.82e3	5.82e3	12.5	1.00	0.0
3	3 161122G2_4	12.5	3.37	5.56e3	5.56e3	12.5	1.00	0.0
4	4 161122G2_5	12.5	3.38	5.84e3	5.84e3	12.5	1.00	0.0
5	5 161122G2_6	12.5	3.38	5.76e3	5.76e3	12.5	1.00	0.0
6	6 161122G2_7	12.5	3.38	4.77e3	4.77e3	12.5	1.00	0.0
7	7 161122G2_8	12.5	3.38	5.78e3	5.78e3	12.5	1.00	0.0
8	8 161122G2_9	12.5	3.38	5.95e3	5.95e3	12.5	1.00	0.0
9	9 161122G2_10	12.5	3.38	6.18e3	6.18e3	12.5	1.00	0.0

Compound name: 13C5-PFHxA
Response Factor: 1
RRF SD: 3.92523e-017, Relative SD: 3.92523e-015
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	3.47	2.07e4	2.07e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	3.46	2.17e4	2.17e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	3.47	2.11e4	2.11e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	3.47	2.20e4	2.20e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	3.47	2.15e4	2.15e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	3.47	1.89e4	1.89e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	3.47	1.78e4	1.78e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	3.47	1.84e4	1.84e4	12.5	1.00	-0.0
9	9 161122G2_10	12.5	3.47	1.75e4	1.75e4	12.5	1.00	0.0

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Compound name: 13C3-PFHxS
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.09	1.32e4	1.32e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.09	1.36e4	1.36e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.09	1.42e4	1.42e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.09	1.48e4	1.48e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.09	1.44e4	1.44e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.09	1.23e4	1.23e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.09	1.16e4	1.16e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.09	1.17e4	1.17e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.09	1.18e4	1.18e4	12.5	1.00	0.0

Compound name: 13C8-PFOA
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.	RRF	%Dev
1	1 161122G2_2	12.5	4.37	1.14e4	1.14e4	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.37	1.22e4	1.22e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.37	1.22e4	1.22e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.37	1.19e4	1.19e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.37	1.12e4	1.12e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.37	1.17e4	1.17e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.37	1.03e4	1.03e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.37	1.06e4	1.06e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.37	9.56e3	9.56e3	12.5	1.00	0.0

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Compound name: 13C4-PFOS
Response Factor: 1
RRF SD: 7.85046e-017, Relative SD: 7.85046e-015
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	4.78	6.09e3	6.09e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.77	8.00e3	8.00e3	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.78	7.63e3	7.63e3	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.77	7.71e3	7.71e3	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.77	7.12e3	7.12e3	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.77	7.59e3	7.59e3	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.78	6.40e3	6.40e3	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.77	7.90e3	7.90e3	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.77	7.73e3	7.73e3	12.5	1.00	0.0

Compound name: 13C9-PFNA
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.	RRF	%Dev
1	1 161122G2_2	12.5	4.71	9.86e3	9.86e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	4.71	1.10e4	1.10e4	12.5	1.00	0.0
3	3 161122G2_4	12.5	4.71	1.19e4	1.19e4	12.5	1.00	0.0
4	4 161122G2_5	12.5	4.71	1.06e4	1.06e4	12.5	1.00	0.0
5	5 161122G2_6	12.5	4.71	1.18e4	1.18e4	12.5	1.00	0.0
6	6 161122G2_7	12.5	4.71	1.04e4	1.04e4	12.5	1.00	0.0
7	7 161122G2_8	12.5	4.71	1.14e4	1.14e4	12.5	1.00	0.0
8	8 161122G2_9	12.5	4.71	1.16e4	1.16e4	12.5	1.00	0.0
9	9 161122G2_10	12.5	4.71	1.14e4	1.14e4	12.5	1.00	0.0

Vista Analytical Laboratory Q1

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Compound name: 13C6-PFDA
Response Factor: 1
RRF SD: 3.92523e-017, Relative SD: 3.92523e-015
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161122G2_2	12.5	5.01	6.35e3	6.35e3	12.5	1.00	0.0
2	2 161122G2_3	12.5	5.01	9.85e3	9.85e3	12.5	1.00	0.0
3	3 161122G2_4	12.5	5.01	8.39e3	8.39e3	12.5	1.00	0.0
4	4 161122G2_5	12.5	5.01	7.46e3	7.46e3	12.5	1.00	0.0
5	5 161122G2_6	12.5	5.01	6.59e3	6.59e3	12.5	1.00	0.0
6	6 161122G2_7	12.5	5.01	9.85e3	9.85e3	12.5	1.00	0.0
7	7 161122G2_8	12.5	5.01	5.70e3	5.70e3	12.5	1.00	0.0
8	8 161122G2_9	12.5	5.01	8.46e3	8.46e3	12.5	1.00	-0.0
9	9 161122G2_10	12.5	5.01	9.48e3	9.48e3	12.5	1.00	0.0

Vista Analytical Laboratory Q1

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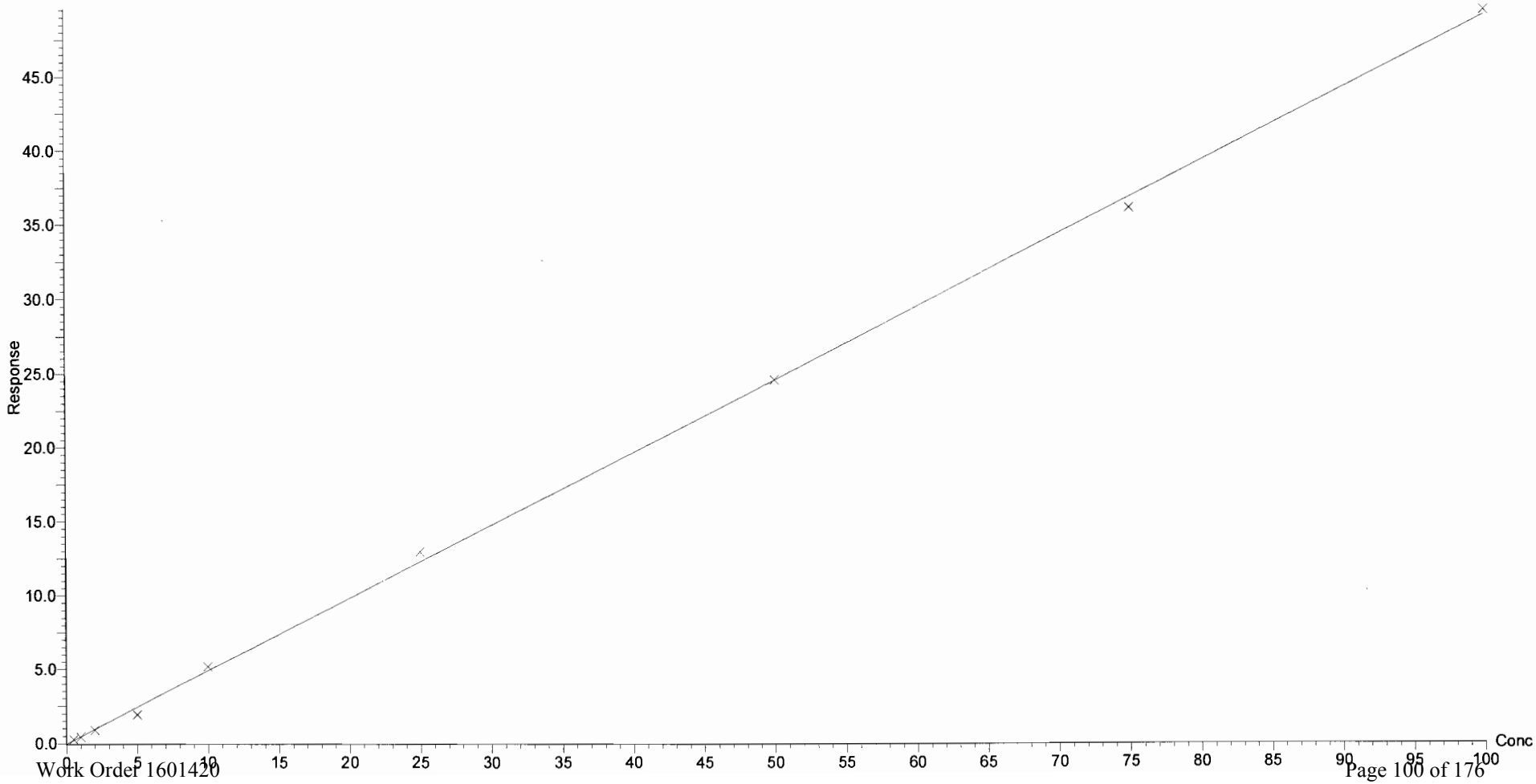
Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:05
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Compound name: PFBA
Correlation coefficient: r = 0.999216, r^2 = 0.998432
Calibration curve: 0.492927 * x + -0.0410615
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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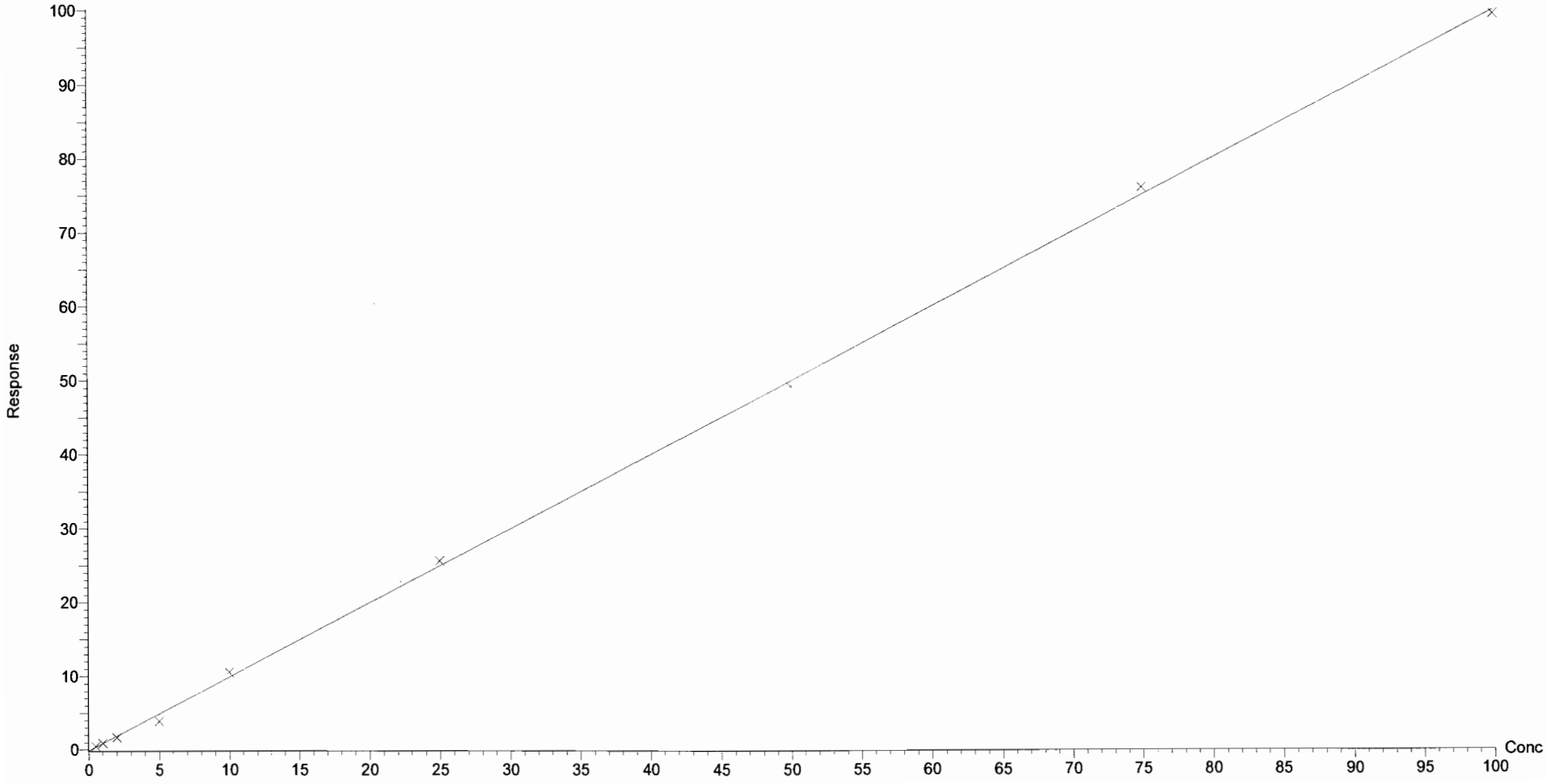
Compound name: PFPeA
Correlation coefficient: r = 0.999341, r^2 = 0.998683
Calibration curve: 1.00273 * x + -0.119981
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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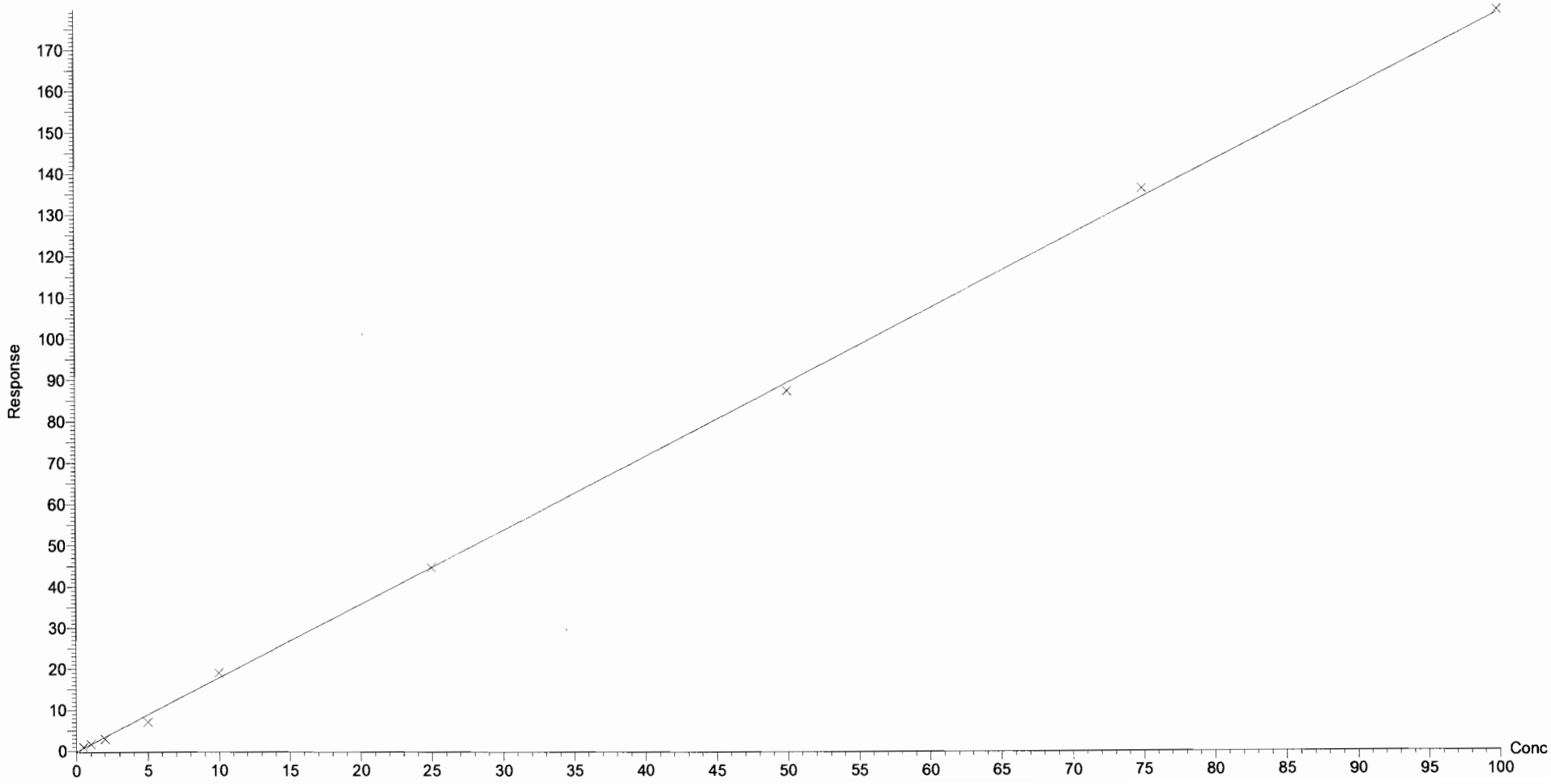
Compound name: PFBS
Correlation coefficient: r = 0.999283, r^2 = 0.998566
Calibration curve: 1.79216 * x + -0.145672
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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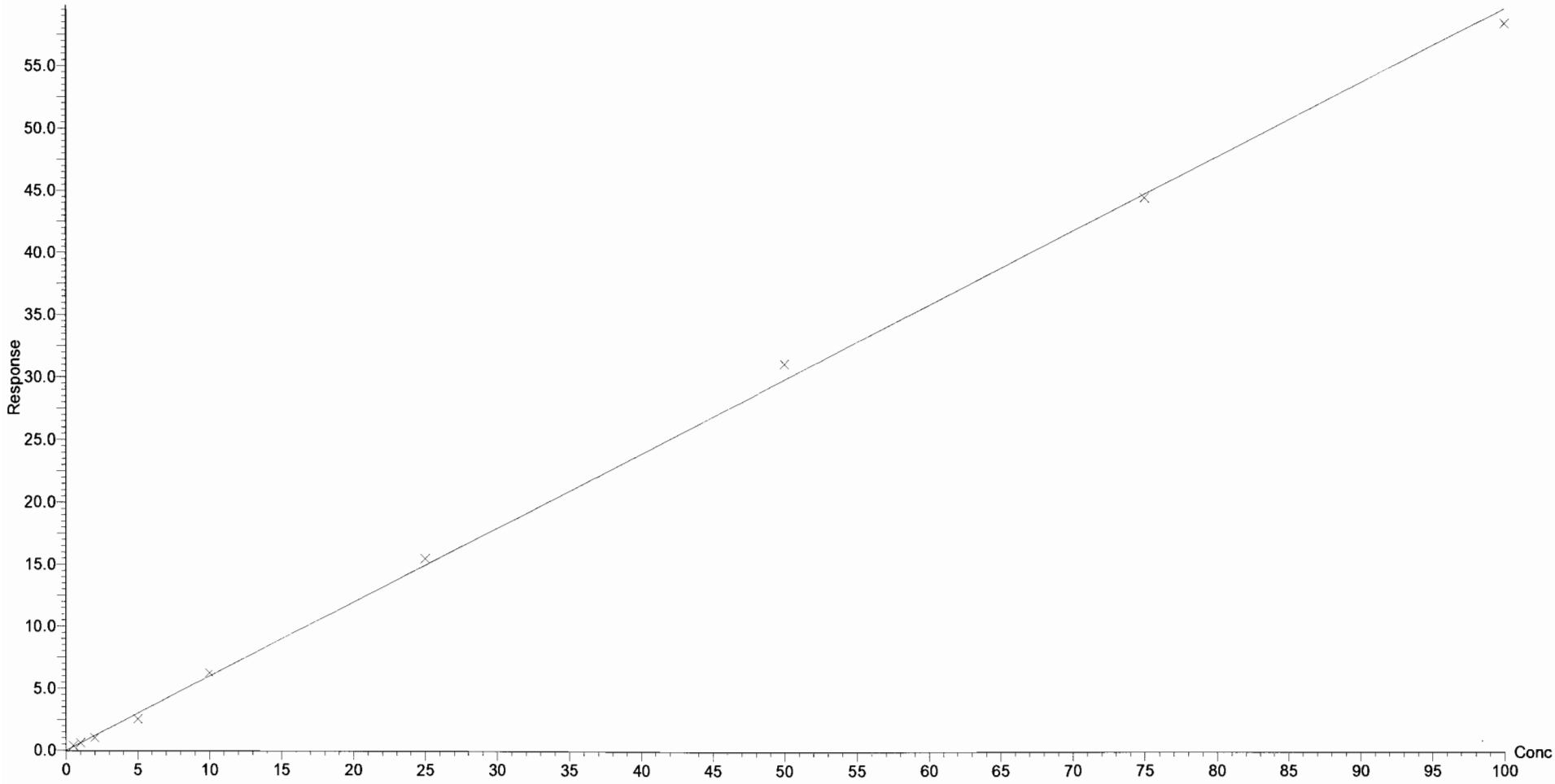
Compound name: PFHxA
Correlation coefficient: r = 0.999245, r^2 = 0.998491
Calibration curve: 0.598427 * x + 0.0095449
Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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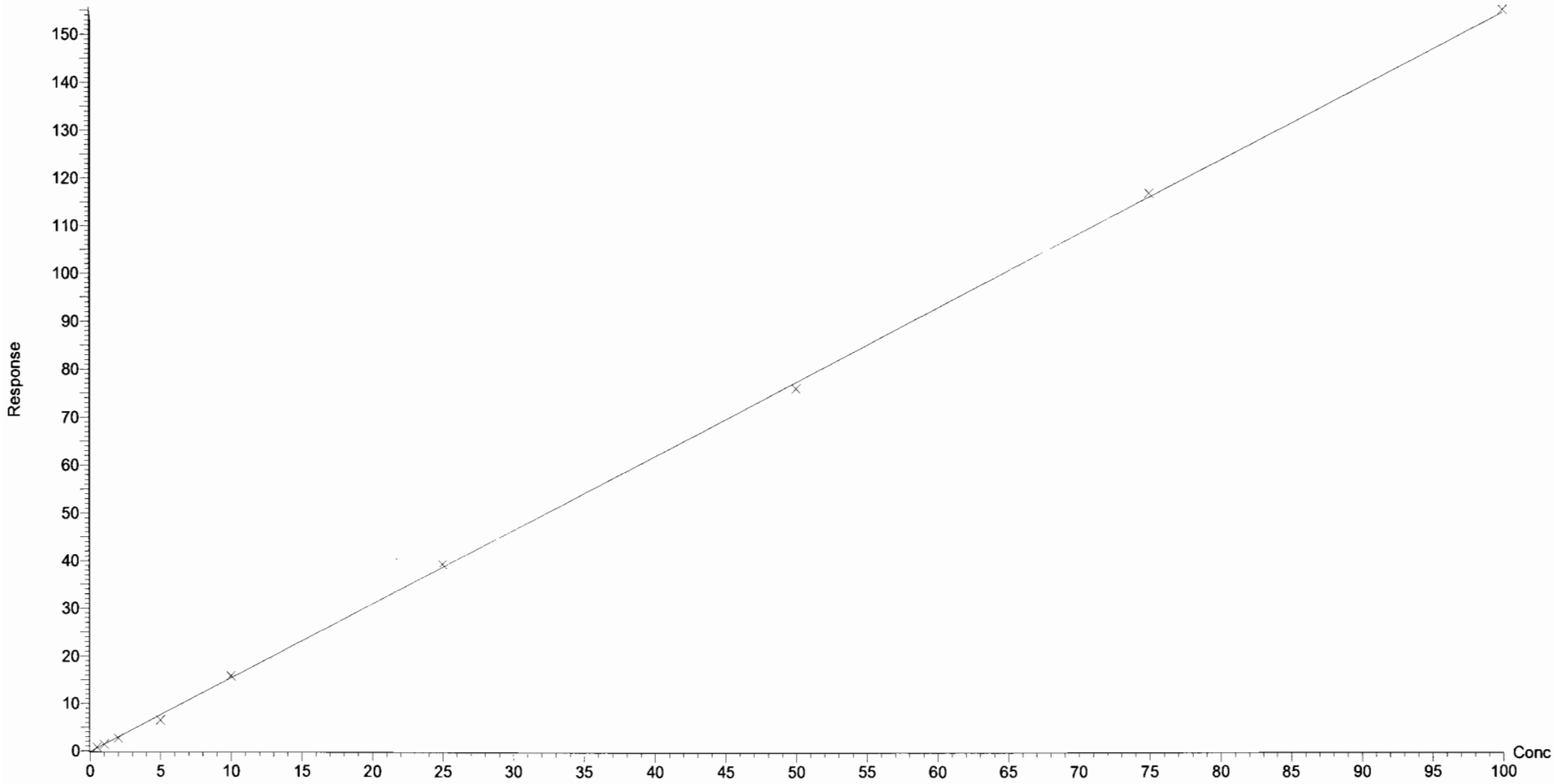
Compound name: PFHpA
Correlation coefficient: r = 0.999639, r^2 = 0.999279
Calibration curve: 1.55279 * x + -0.138431
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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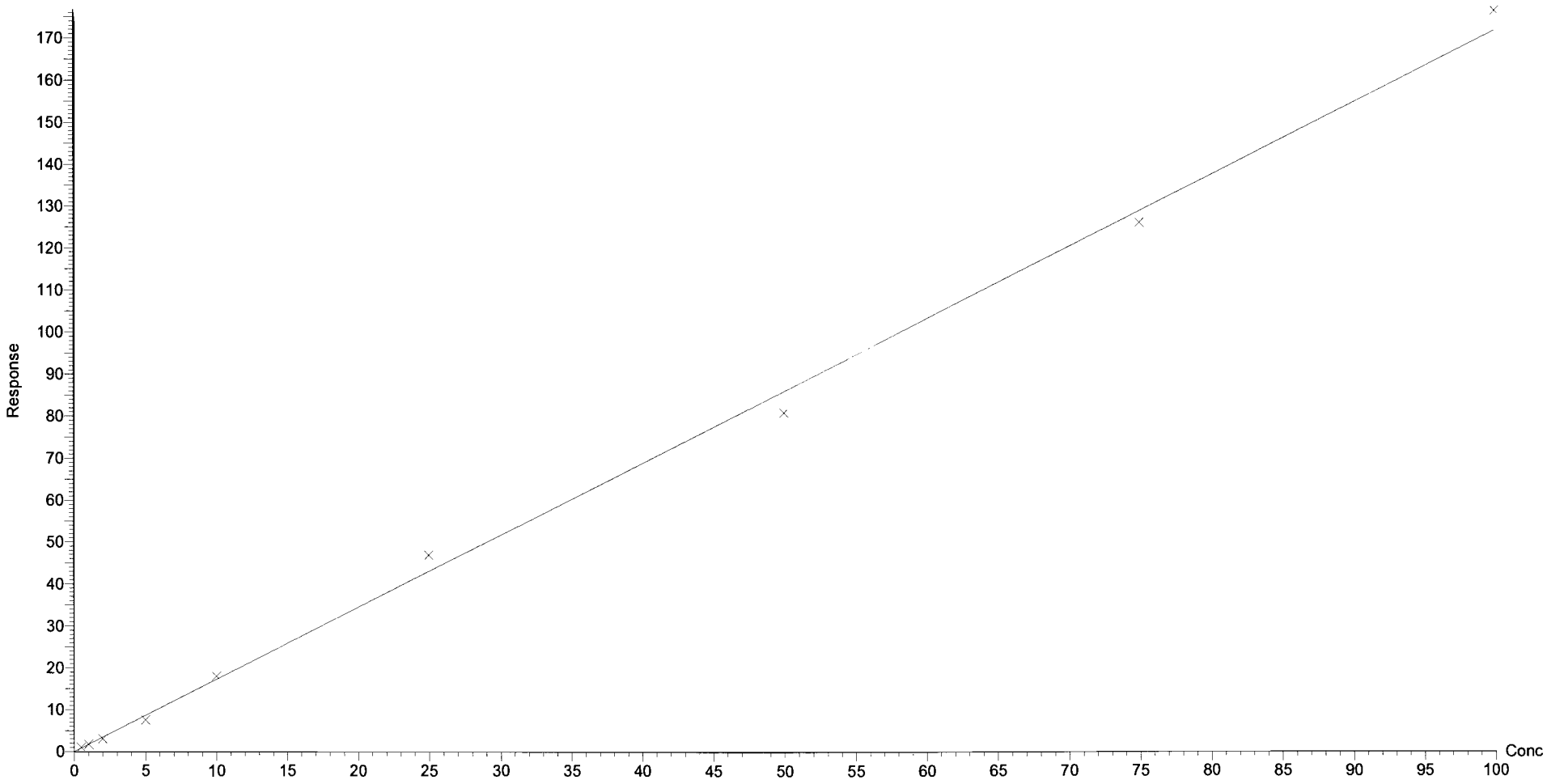
Compound name: PFHxS
Correlation coefficient: r = 0.998761, r^2 = 0.997524
Calibration curve: 1.72095 * x + -0.0266266
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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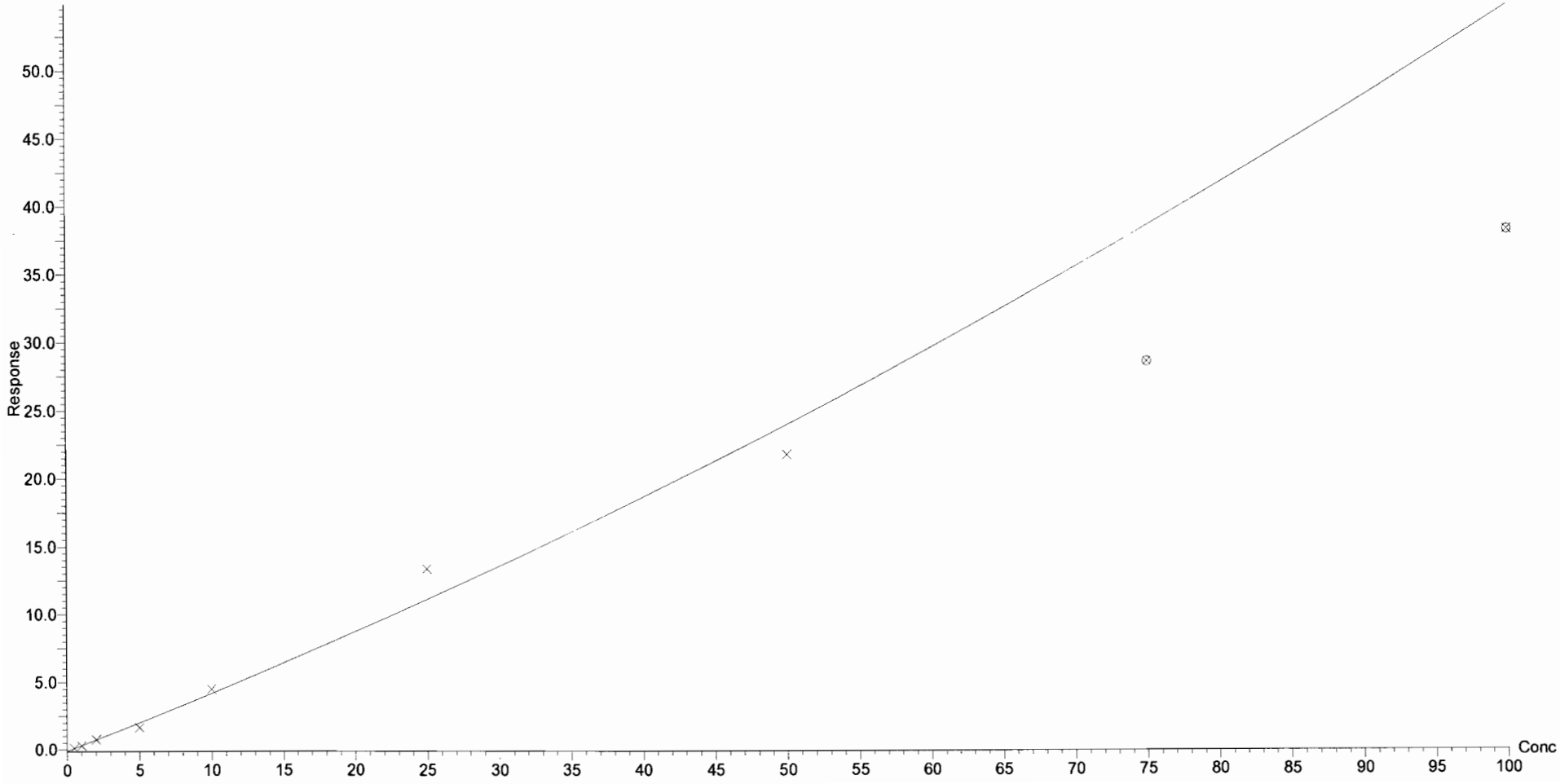
Compound name: 6:2 FTS
Coefficient of Determination: R^2 = 0.978941
Calibration curve: 0.00135992 * x^2 + 0.414129 * x + -0.114975
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x^2, Axis trans: None



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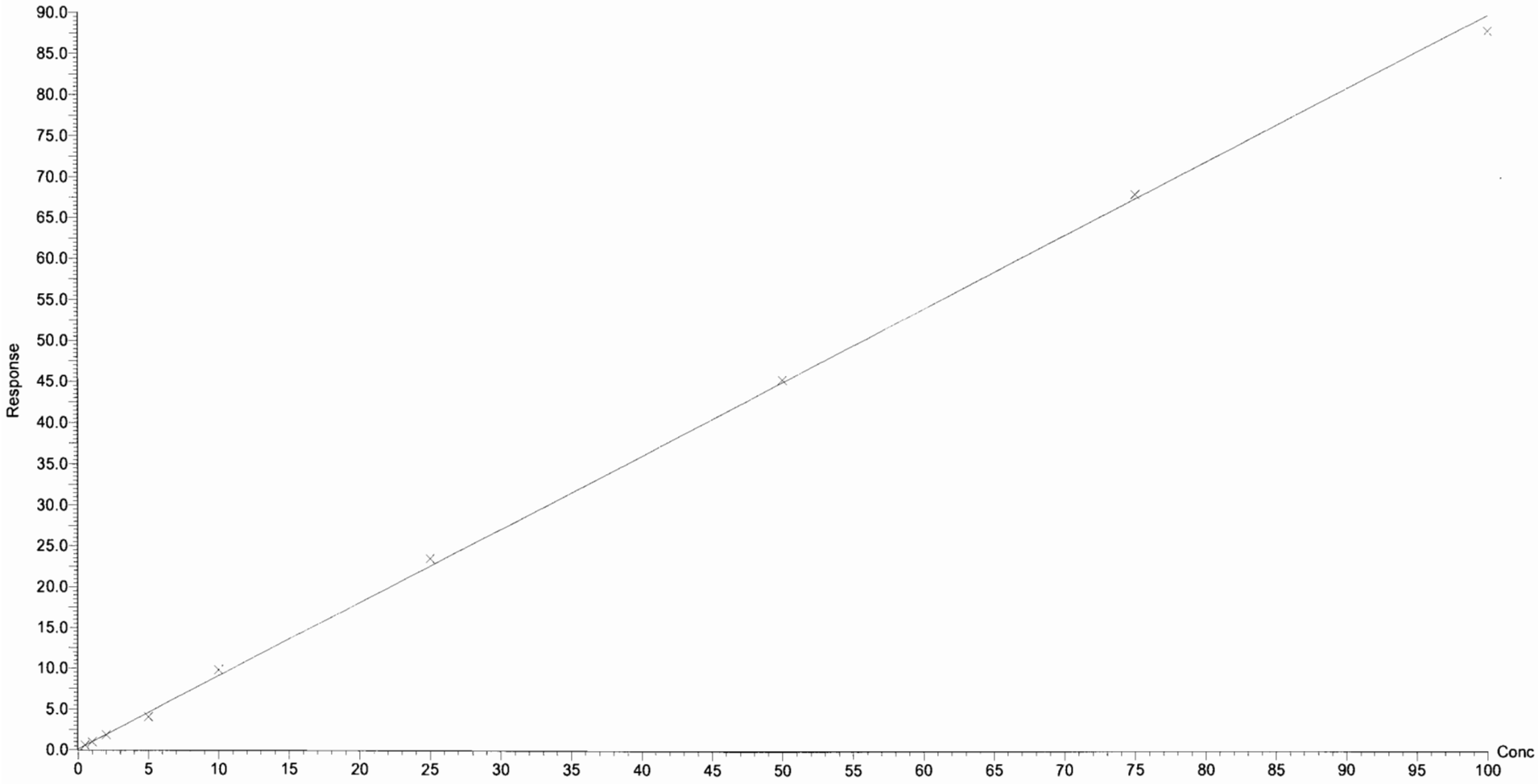
Compound name: PFOA
Correlation coefficient: r = 0.999524, r^2 = 0.999048
Calibration curve: 0.899906 * x + 0.0917344
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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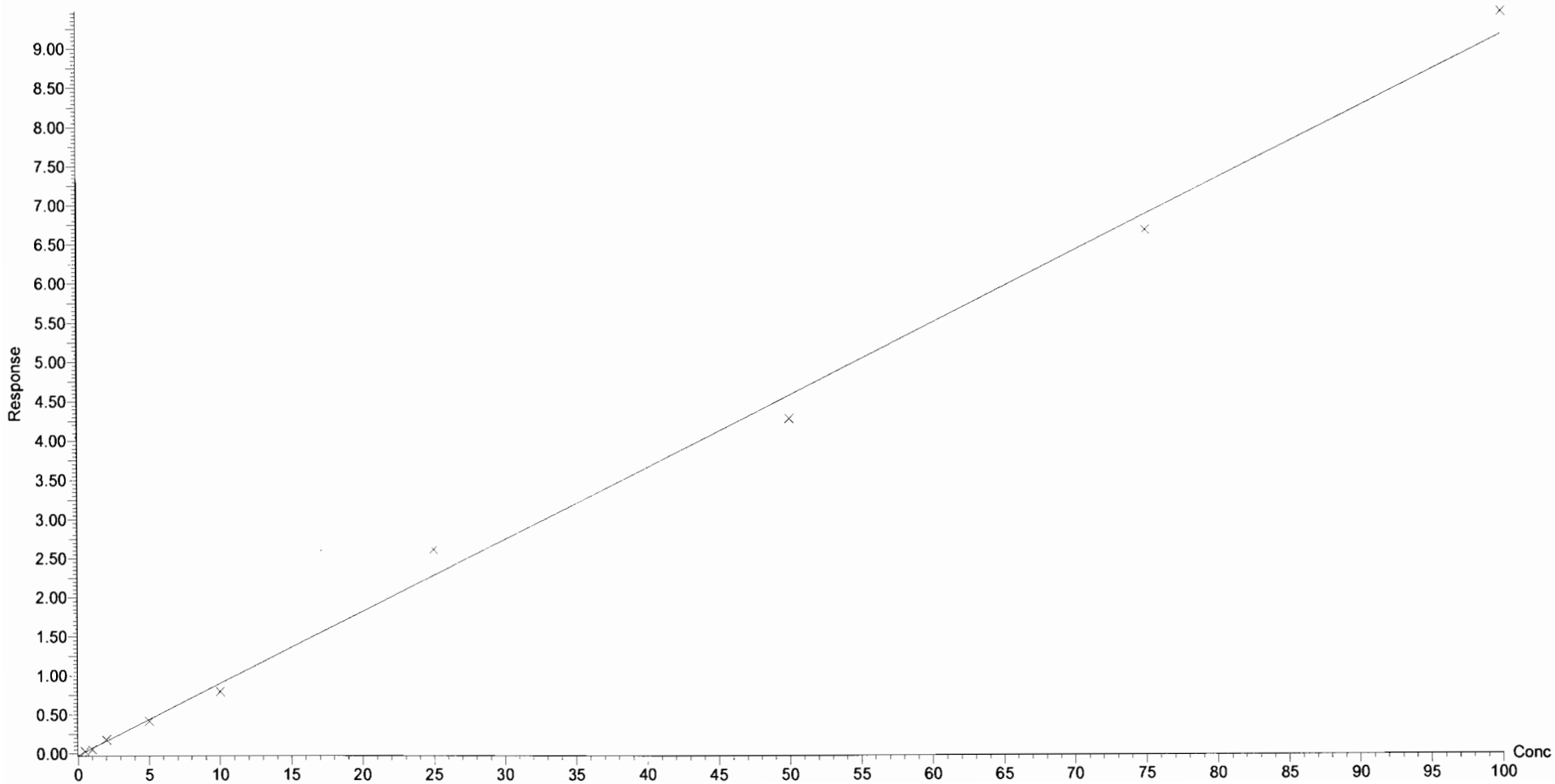
Compound name: PFHpS
Correlation coefficient: r = 0.997800, r^2 = 0.995604
Calibration curve: 0.0921515 * x + -0.0228444
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

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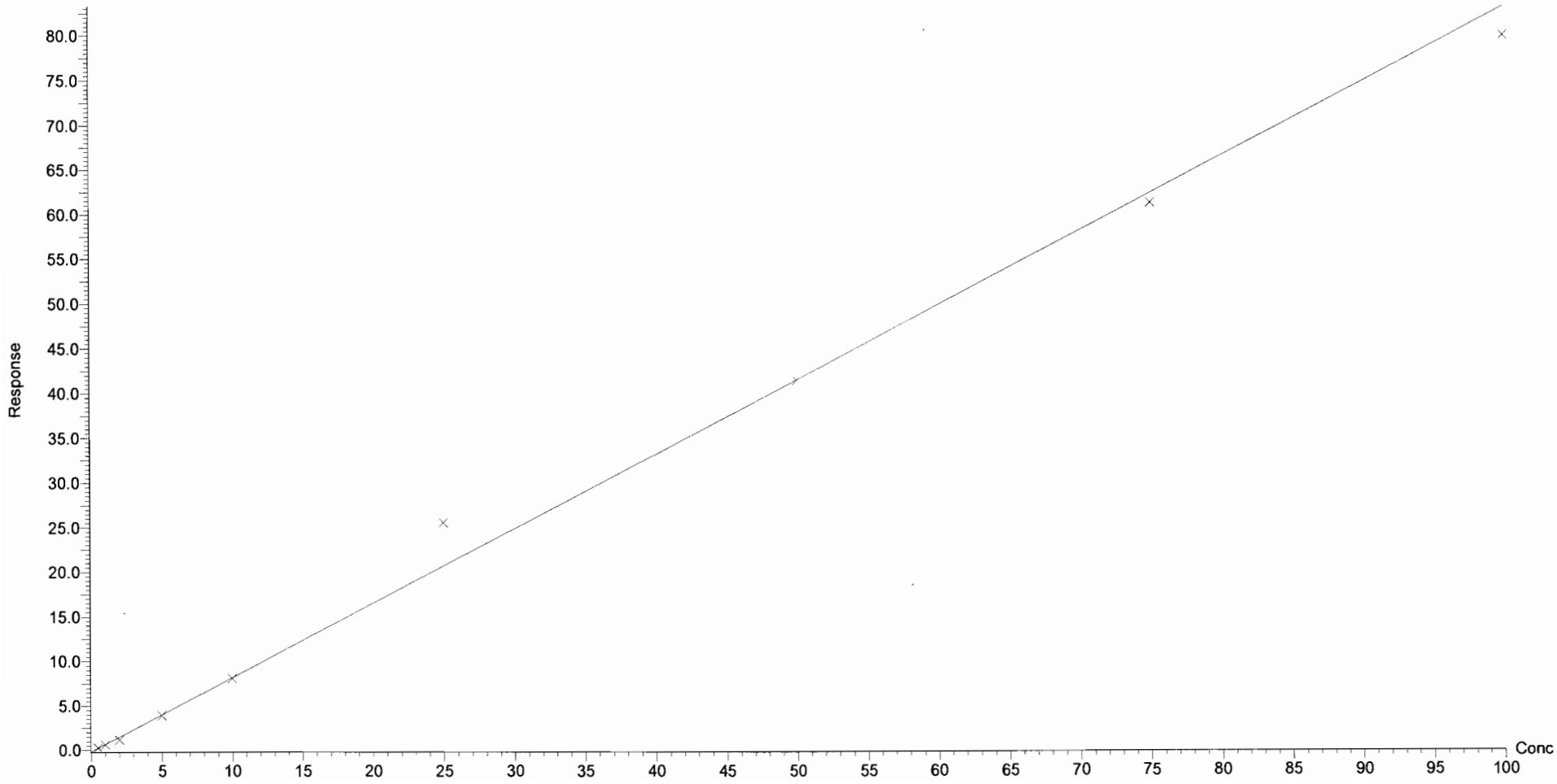
Compound name: PFOS
Correlation coefficient: r = 0.996761, r^2 = 0.993532
Calibration curve: 0.83439 * x + -0.165838
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

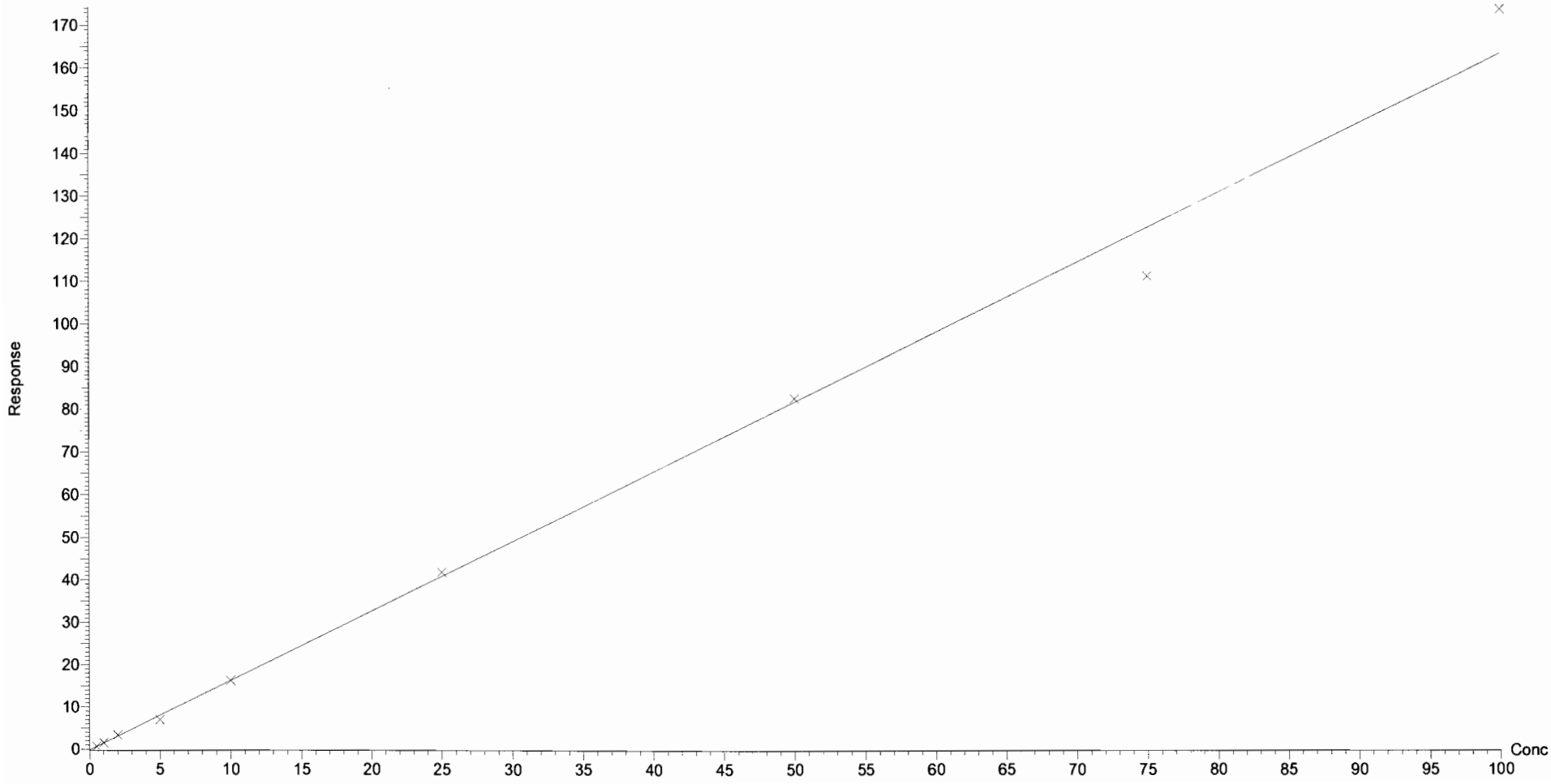


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

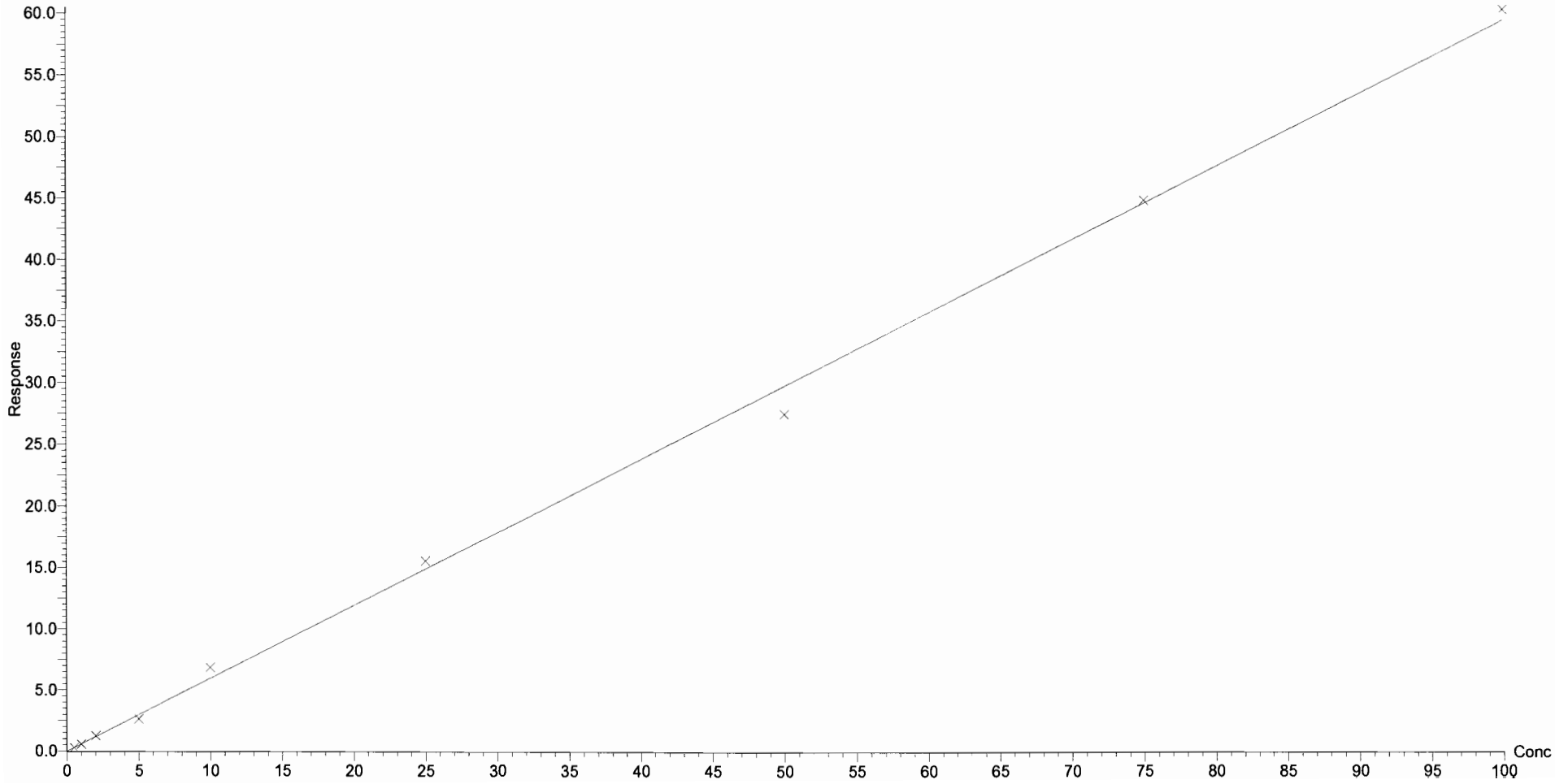
Compound name: PFNA
Correlation coefficient: r = 0.997674, r^2 = 0.995354
Calibration curve: 1.64181 * x + -0.17063
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Compound name: PFDA
Correlation coefficient: r = 0.998669, r^2 = 0.997340
Calibration curve: 0.596457 * x + -0.0200723
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

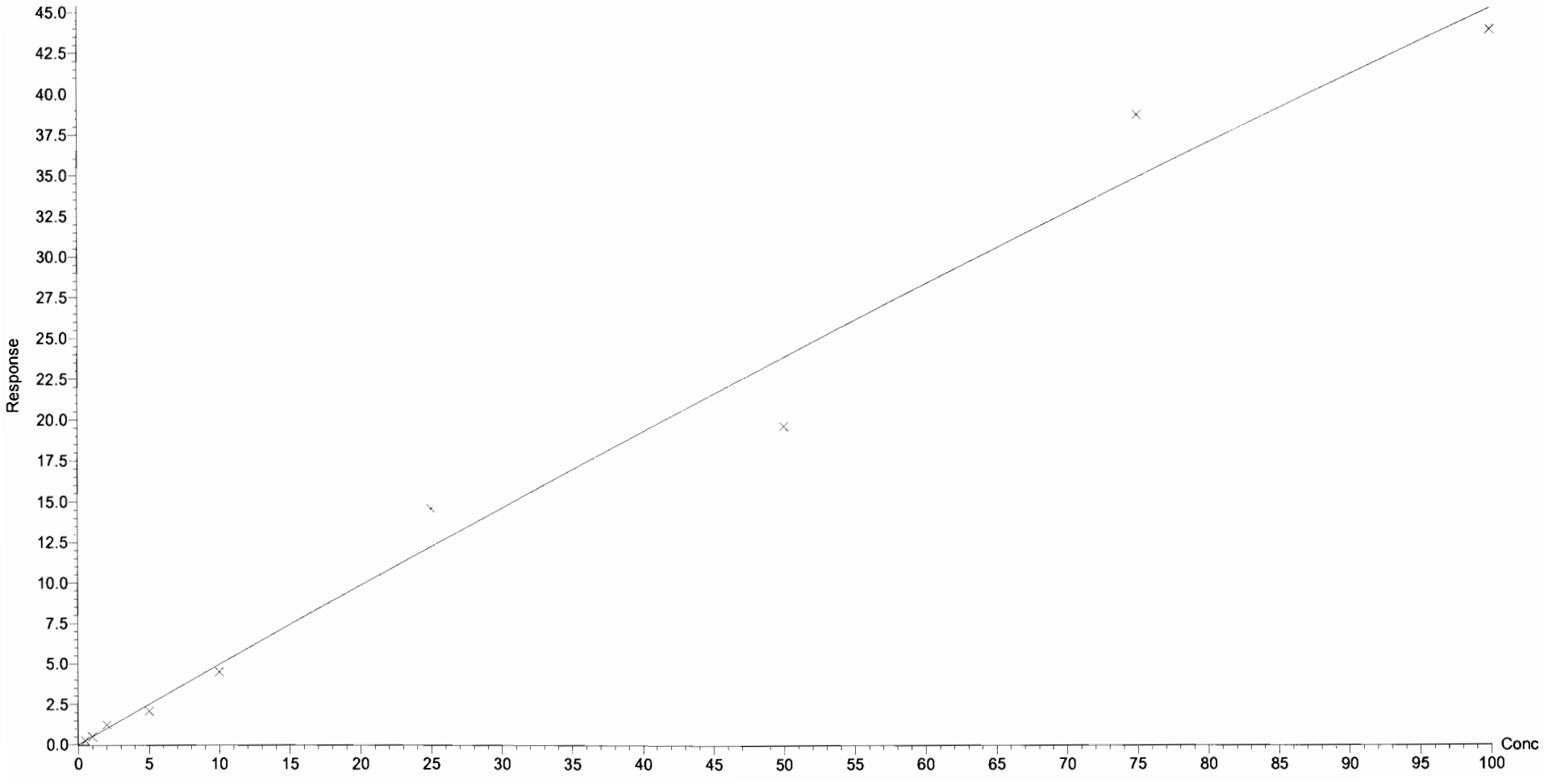


Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-CRV.qld

Last Altered: Tuesday, November 22, 2016 15:25:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:26:22 Pacific Standard Time

Compound name: 8:2 FTS
Coefficient of Determination: R^2 = 0.984052
Calibration curve: -0.000479329 * x^2 + 0.502189 * x + 0.00235356
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Tuesday, November 22, 2016 15:08:21 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:09:10 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 14:59:27

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161122G2_1	IPA	22-Nov-16	09:47:54
2	161122G2_2	ST161122G2-2 PFC CS-1 16K1705	22-Nov-16	10:00:32
3	161122G2_3	ST161122G2-3 PFC CS0 16K1706	22-Nov-16	10:13:07
4	161122G2_4	ST161122G2-4 PFC CS1 16K1707	22-Nov-16	10:25:42
5	161122G2_5	ST161122G2-5 PFC CS2 16K1708	22-Nov-16	10:38:18
6	161122G2_6	ST161122G2-6 PFC CS3 16K1709	22-Nov-16	10:50:54
7	161122G2_7	ST161122G2-7 PFC CS3.5 16K1710	22-Nov-16	11:03:32
8	161122G2_8	ST161122G2-8 PFC CS4 16K1711	22-Nov-16	11:16:11
9	161122G2_9	ST161122G2-9 PFC CS4.5 16K1712	22-Nov-16	11:28:50
10	161122G2_10	ST161122G2-10 PFC CS5 16K1713	22-Nov-16	11:41:28
11	161122G2_11	IPA	22-Nov-16	11:54:03
12	161122G2_12	SS161122G2-1 PFC SS 16K2201	22-Nov-16	12:06:50
13	161122G2_13	IPA	22-Nov-16	12:19:32

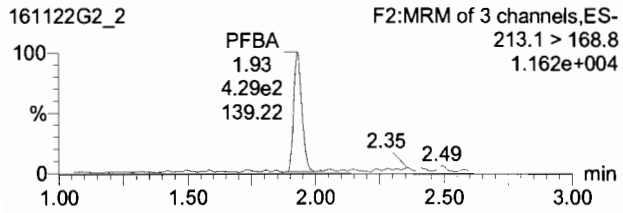
Dataset: Untitled

Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

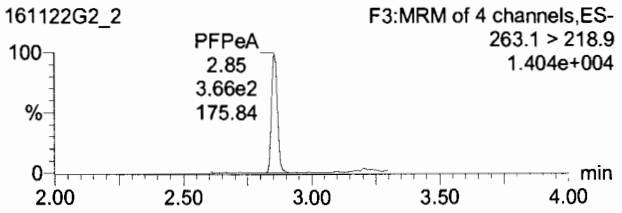
Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:05
Calibration: 22 Nov 2016 14:43:00

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

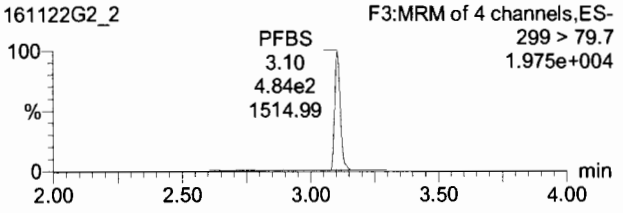
PFBA



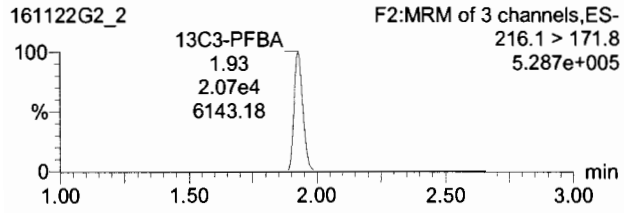
PFPeA



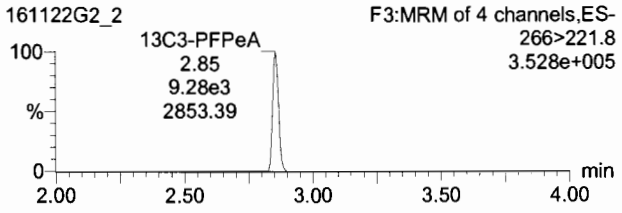
PFBS



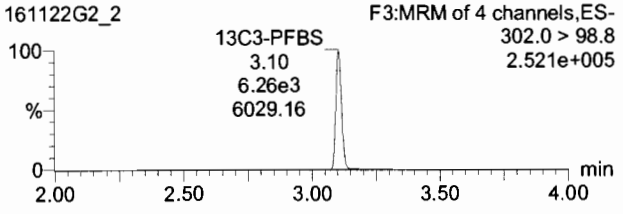
13C3-PFBA



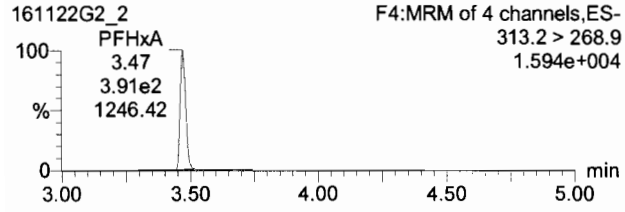
13C3-PFPeA



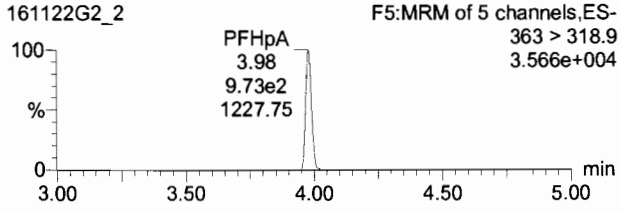
13C3-PFBS



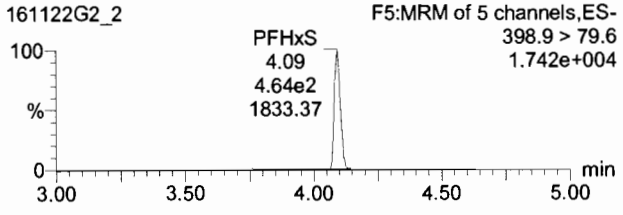
PFHxA



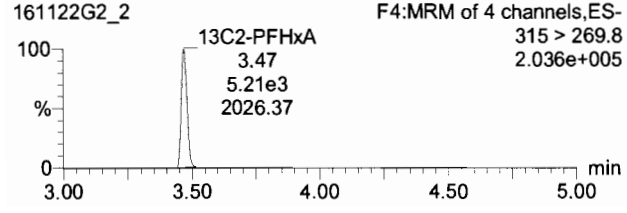
PFHpA



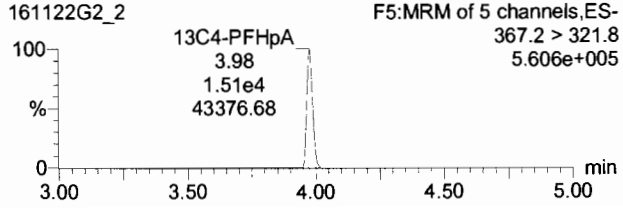
PFHxS



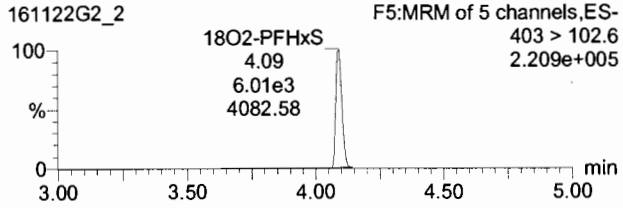
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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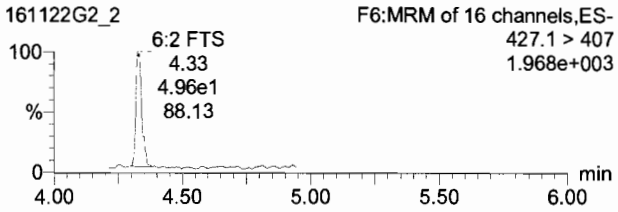
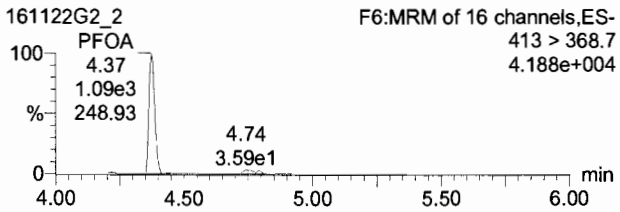
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

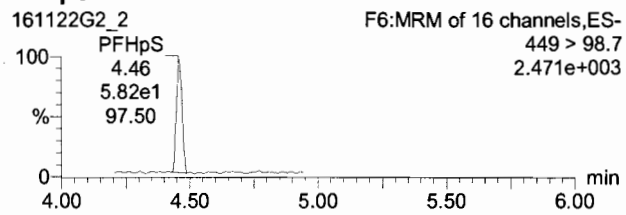
6:2 FTS



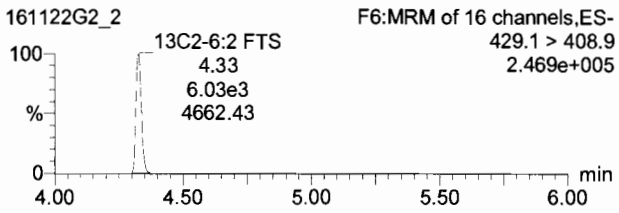
PFOA



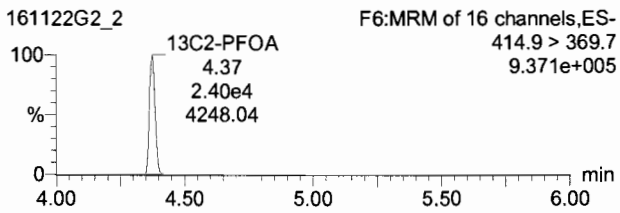
PFHpS



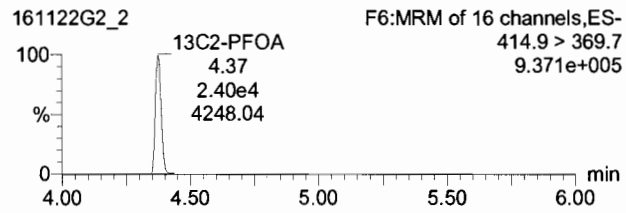
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA

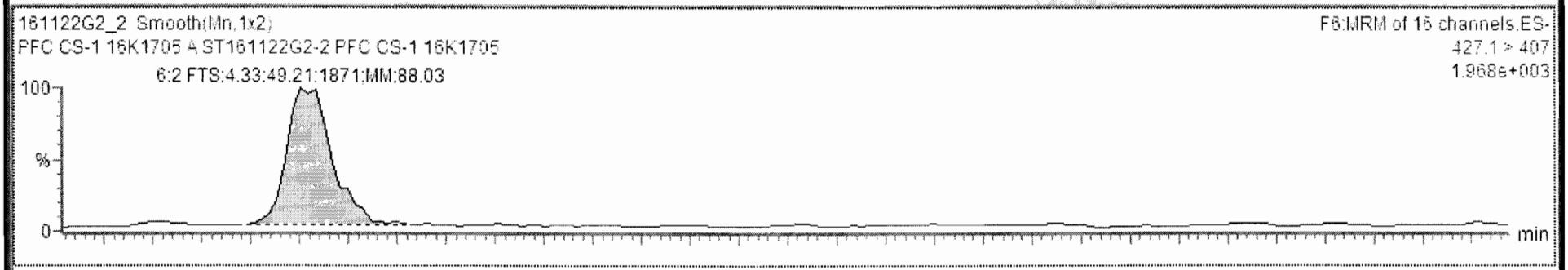


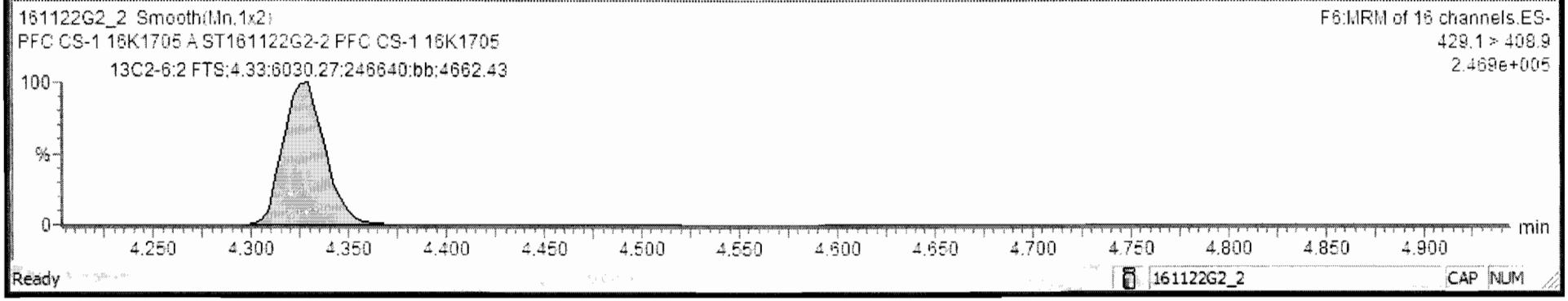
TargetLynx - 161122G2-CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_2 - ST161122G2-2 PFC CS-1 16K1705 - PFC CS-1 16K1705 A

	Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	4.29e2	0.259	0.518	1.000	1.93	0.608	121.7	0.0932282		0.9984
2	PFPeA	263.1 > 218.9	3.66e2	0.493	0.986	1.000	2.85	0.611	122.2	0.1266747		0.9987
3	PFBS	299 > 79.7	4.84e2	0.966	1.932	1.000	3.10	0.620	124.1	0.0821816		0.9986
4	PFHxA	313.2 > 268.9	3.91e2	0.376	0.751	1.000	3.47	0.612	122.3	0.0000000		0.9985
5	PFHpA	363 > 318.9	9.73e2	0.805	1.610	1.000	3.98	0.608	121.5	0.0901896		0.9993
6	PFHxS	398.9 > 79.8	4.64e2	0.965	1.931	1.000	4.09	0.576	115.3	0.0162512		0.9975
7	6:2 FTS	427.1 > 407	4.92e1	0.102	0.204	1.000	4.33	0.523	104.6	0.2838680		0.9769
8	PFOA	413 > 368.7	1.09e3	0.566	1.133	1.000	4.37	0.527	105.5	0.0000000		0.9990
9	PFHpS	449 > 98.7	5.82e1	0.030	0.061	1.000	4.46	0.577	115.3	0.2567614		0.9956
10	PFOS	499 >79.9	1.21e2	0.287	0.574	1.000	4.78	0.543	108.5	0.2386134		0.9935
11	PFNA	463 > 418.8	5.63e2	0.664	1.329	1.000	4.72	0.509	101.7	0.1047001		0.9954
12	PFDA	513 > 468.8	1.30e2	0.270	0.540	1.000	5.01	0.486	97.3	0.0368964		0.9973
13	8:2 FTS	527 > 506.9	4.13e1	0.243	0.486	1.000	4.99	0.485	97.0	0.0169968		0.9823





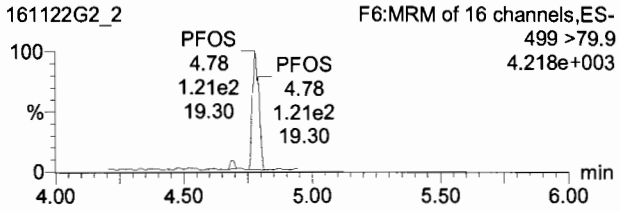
Ready 161122G2_2 CAP NUM

Dataset: Untitled

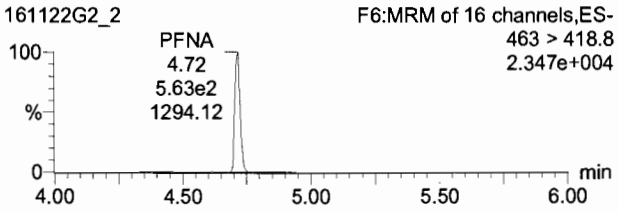
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

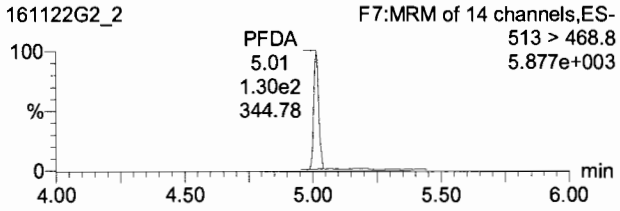
PFOS



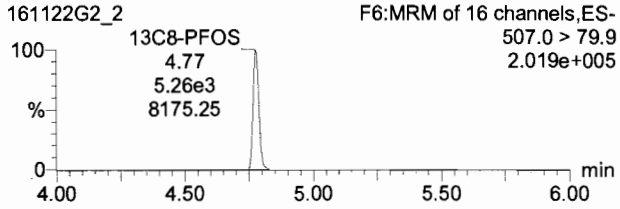
PFNA



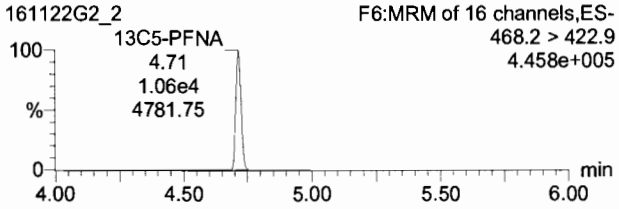
PFDA



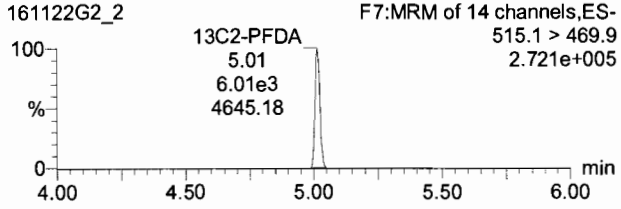
13C8-PFOS



13C5-PFNA



13C2-PFDA

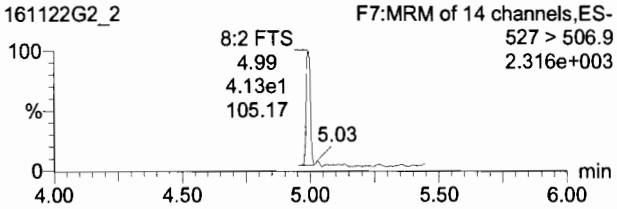


Dataset: Untitled

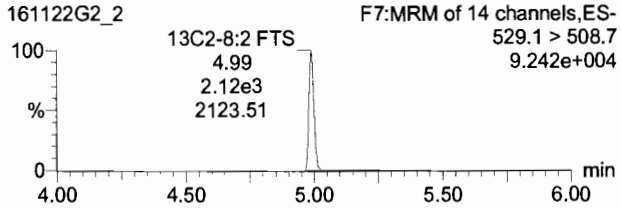
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

8:2 FTS



13C2-8:2 FTS

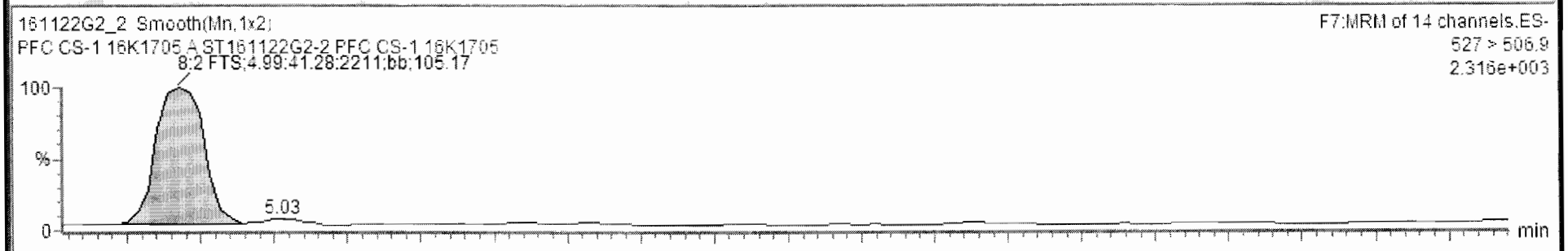


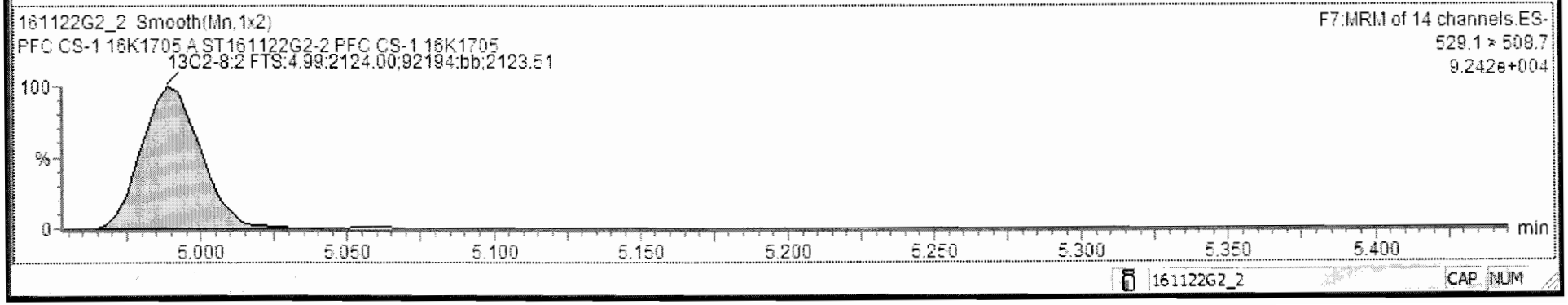
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_2 - ST161122G2-2 PFC CS-1 16K1705 - PFC CS-1 16K1705 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	3.91e2		1.000	3.47	3.47	0.612	NO	122.3	0.0000000
5	PFHpA	363 > 318.9	9.73e2		1.000	3.98	3.98	0.608	NO	121.5	0.0903976
6	PFHxS	398.9 > 79.6	4.64e2		1.000	4.09	4.09	0.576	NO	115.3	0.0164070
7	6:2 FTS	427.1 > 407	4.92e1		1.000	4.33	4.33	0.645	NO	129.1	0.4501268
8	PFOA	413 > 368.7	1.09e3		1.000	4.37	4.37	0.527	NO	105.5	0.0000000
9	PFHpS	449 > 98.7	5.82e1		1.000	4.37	4.45	0.577	NO	115.3	0.2585335
10	PFOS	499 >79.9	1.21e2		1.000	4.78	4.78	0.543	NO	108.5	0.2465854
11	PFNA	463 > 418.8	5.63e2		1.000	4.71	4.72	0.509	NO	101.7	0.1048546
12	PFDA	513 > 468.8	1.30e2		1.000	5.01	5.01	0.486	NO	97.3	0.0375452
13	8:2 FTS	527 > 506.9	4.13e1		1.000	4.99	4.99	0.479	NO	95.9	0.0123962
14	13C3-PFBA	216.1 > 171.8	2.07e4	1.21	1.000	1.93	1.93	12.2	NO	97.8	0.0060004
15	13C3-PFPeA	266>221.8	9.28e3	0.448	1.000	2.83	2.85	12.5	NO	100.1	0.0125741
16	13C3-PFBS	302.0 > 98.8	6.26e3	0.302	1.000	3.09	3.10	12.5	NO	100.1	0.0062980





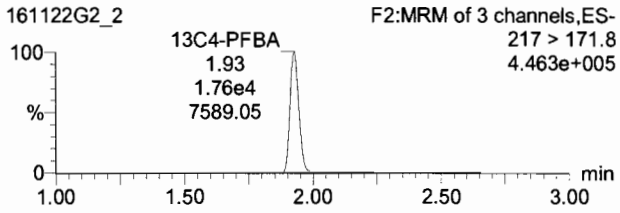
161122G2_2 CAP NUM

Dataset: Untitled

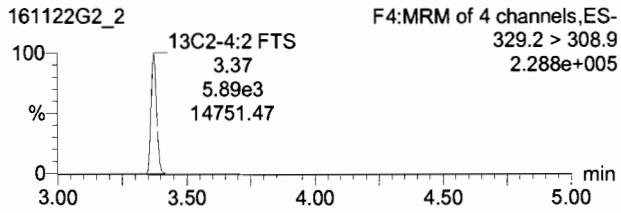
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_2, Date: 22-Nov-2016, Time: 10:00:32, ID: ST161122G2-2 PFC CS-1 16K1705, Description: PFC CS-1 16K1705 A

13C4-PFBA



13C2-4:2 FTS



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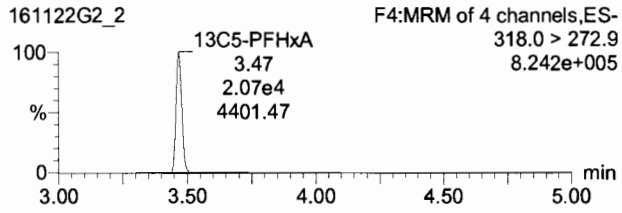

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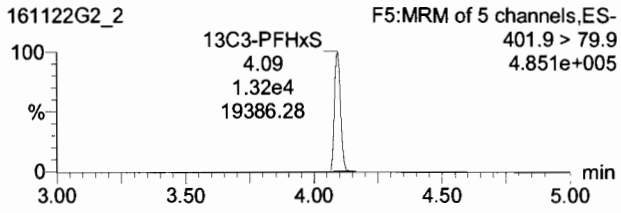

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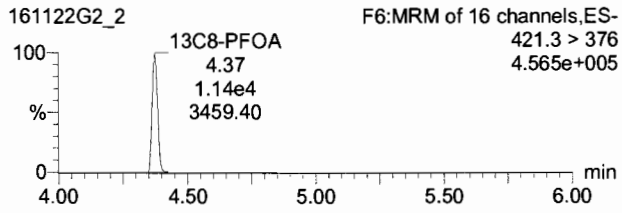

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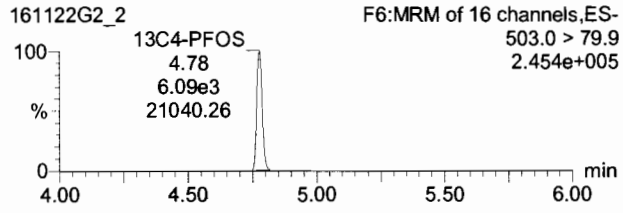

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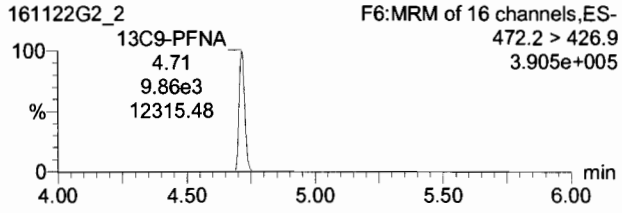

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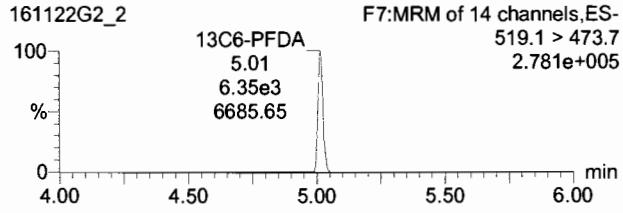

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Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

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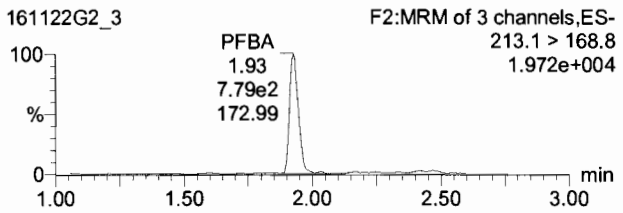

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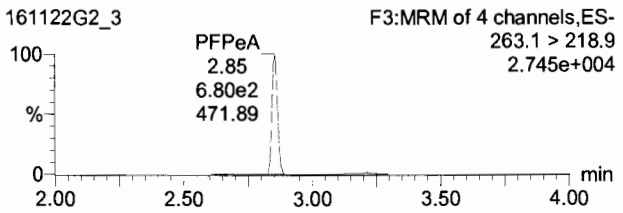

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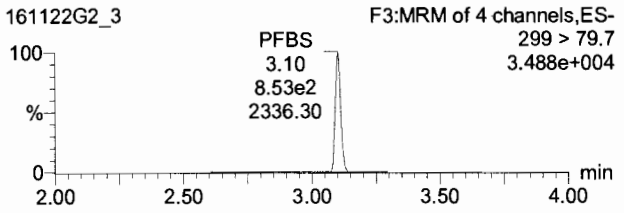

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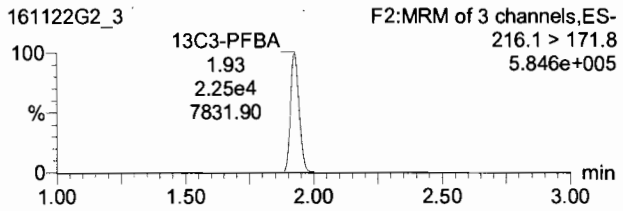

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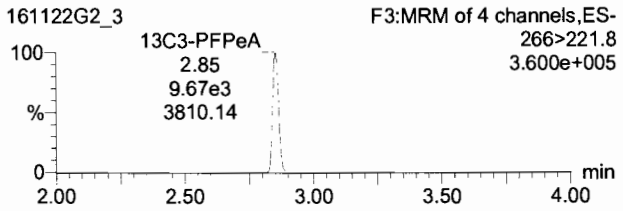

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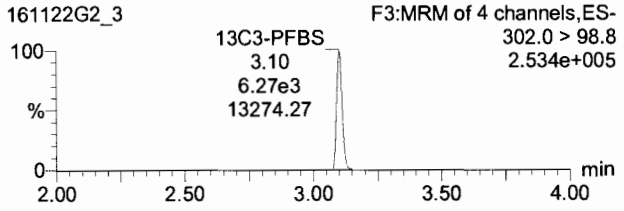

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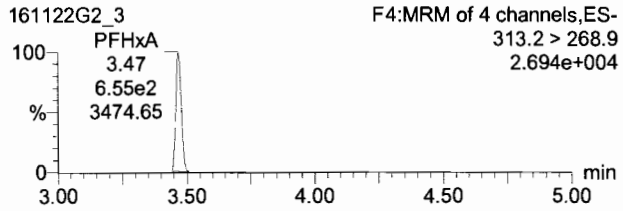

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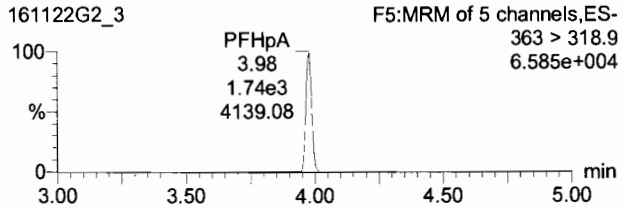

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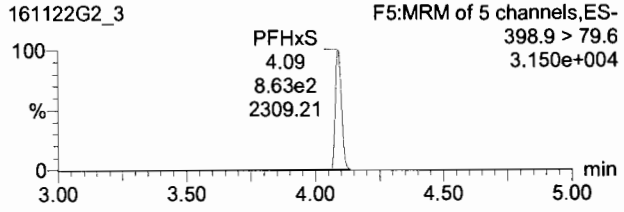

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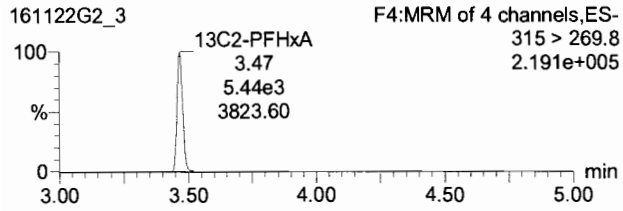

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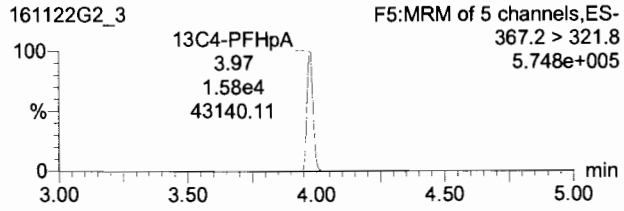

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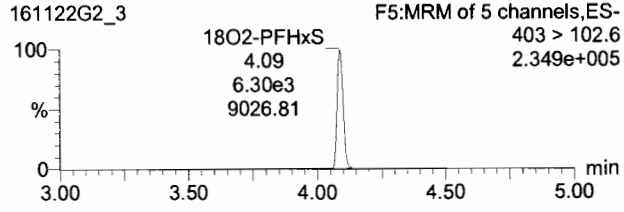

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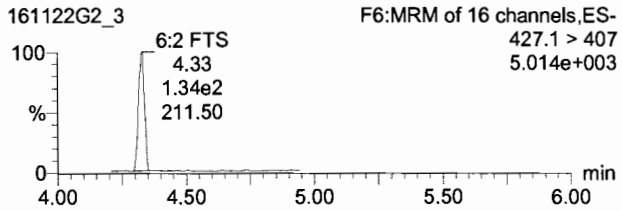
Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

6:2 FTS



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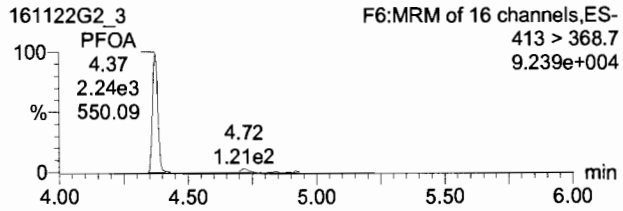

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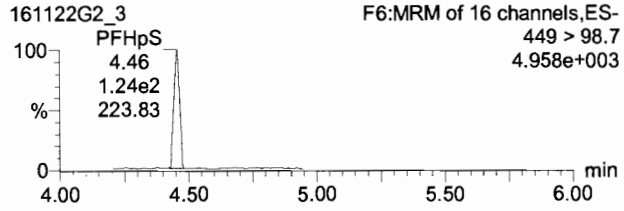
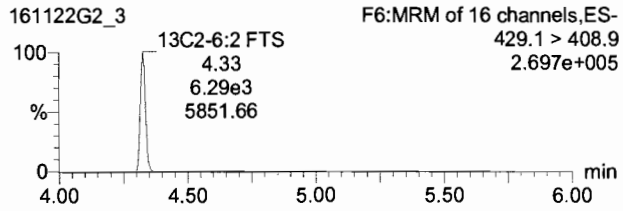


13C2-6:2 FTS



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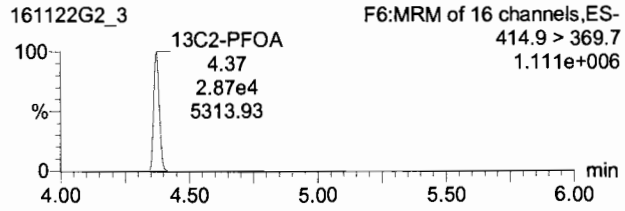

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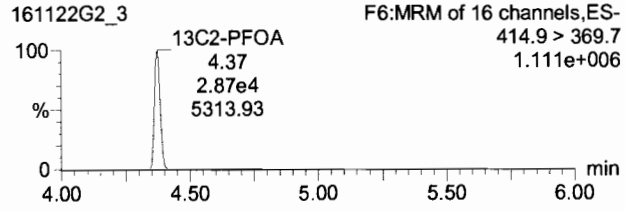

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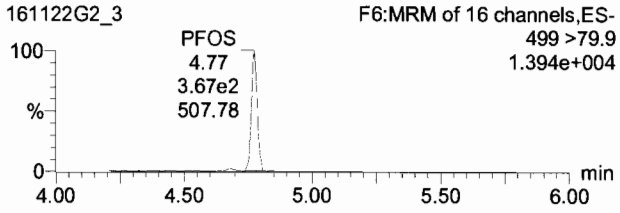
Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

PFOS



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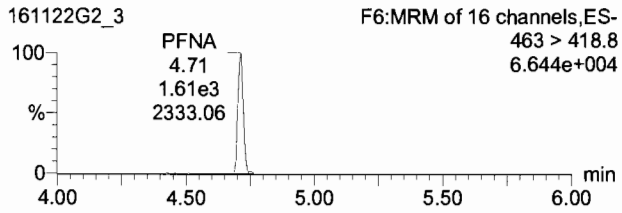

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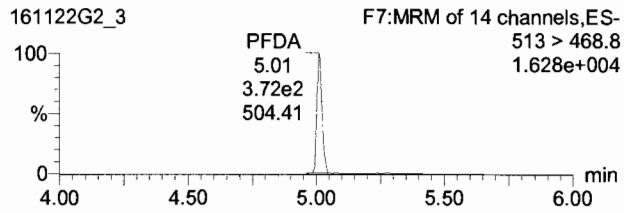

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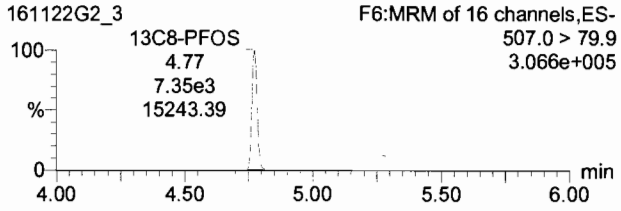

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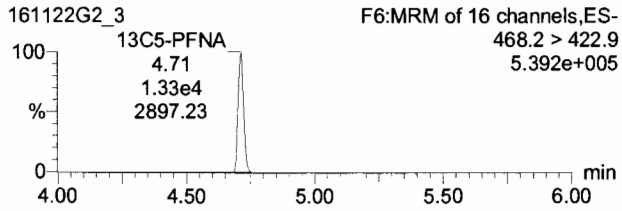

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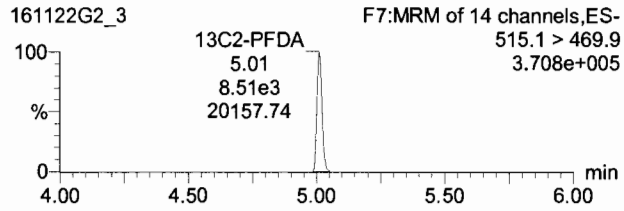

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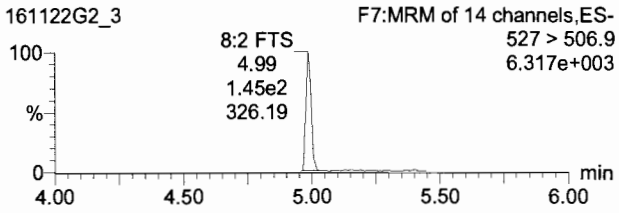
8:2 FTS



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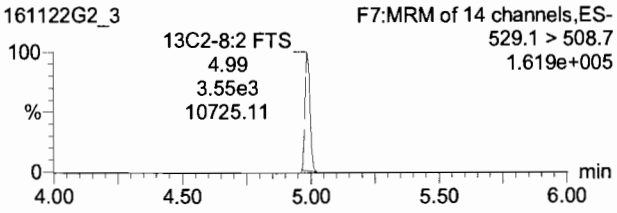
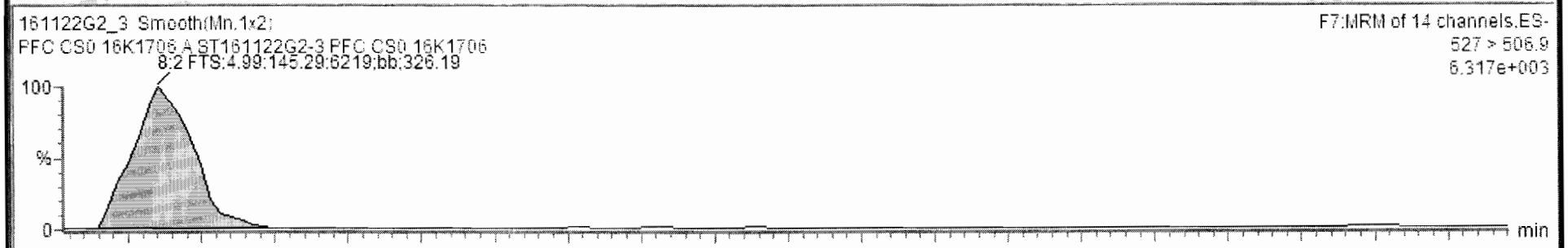


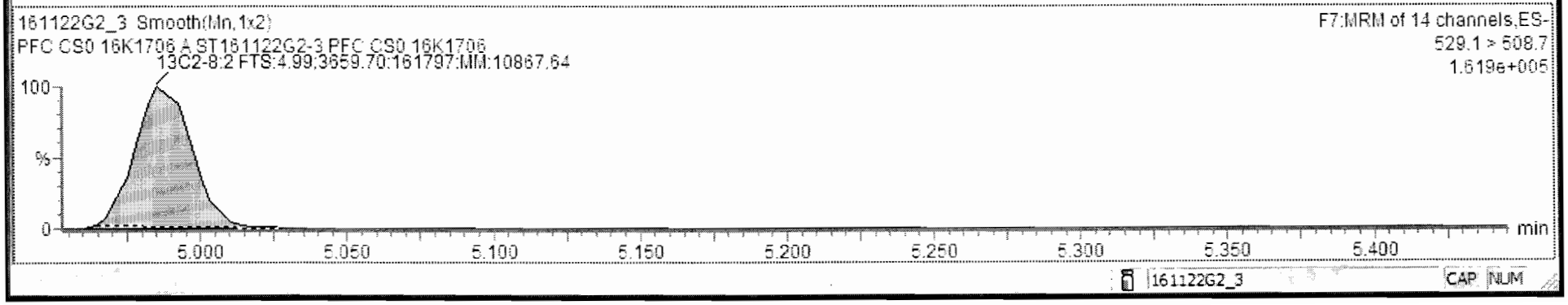
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_3 - ST161122G2-3 PFC CS0 16K1706 - PFC CS0 16K1706 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	6.55e2		1.000	3.47	3.47	0.989	NO	98.9	0.0000000
5	PFHpA	363 > 318.9	1.74e3		1.000	3.97	3.98	0.979	NO	97.9	0.0897062
6	PFHxS	398.9 > 79.6	8.63e2		1.000	4.09	4.09	1.01	NO	101.1	0.0165248
7	6:2 FTS	427.1 > 407	1.34e2		1.000	4.33	4.33	0.971	NO	97.1	0.4490742
8	PFOA	413 > 368.7	2.24e3		1.000	4.37	4.37	0.983	NO	98.3	0.0000000
9	PFHpS	449 > 98.7	1.24e2		1.000	4.37	4.49	0.834	NO	83.4	0.2545461
10	PFOS	499 >79.9	3.67e2		1.000	4.78	4.77	0.947	NO	94.7	0.2020921
11	PFNA	463 > 418.8	1.61e3		1.000	4.71	4.71	1.02	NO	102.5	0.1049328
12	PFDA	513 > 468.8	3.72e2		1.000	5.01	5.01	0.949	NO	94.9	0.0381871
13	8:2 FTS	527 > 506.9	1.45e2		1.000	4.99	4.99	0.984	NO	98.4	0.0027010
14	13C3-PFBA	216.1 > 171.8	2.25e4	1.21	1.000	1.92	1.93	12.6	NO	101.0	0.0041450
15	13C3-PFPeA	266>221.8	9.67e3	0.448	1.000	2.83	2.85	12.4	NO	99.4	0.0077179
16	13C3-PFBS	302.0 > 98.8	6.27e3	0.302	1.000	3.09	3.10	11.9	NO	95.4	0.0023082





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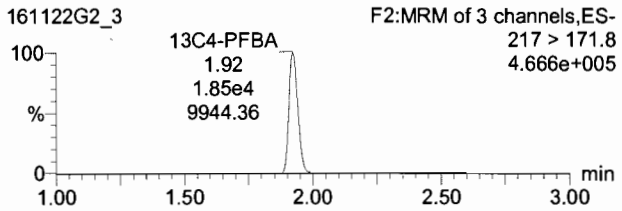
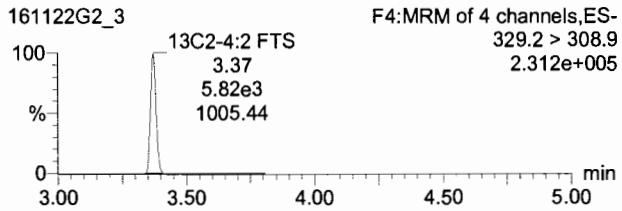
Name: 161122G2_3, Date: 22-Nov-2016, Time: 10:13:07, ID: ST161122G2-3 PFC CS0 16K1706, Description: PFC CS0 16K1706 A

13C4-PFBA



13C2-4:2 FTS



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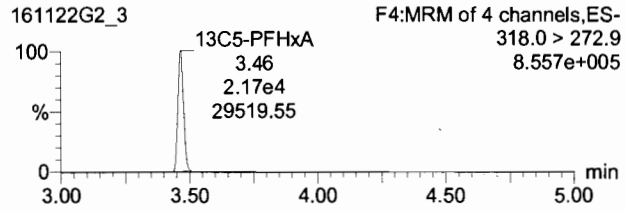

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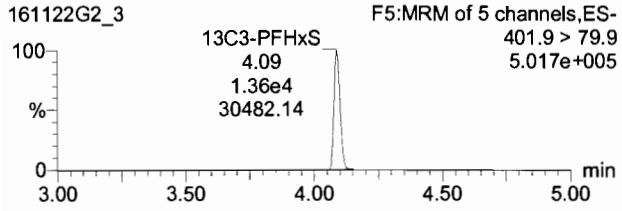

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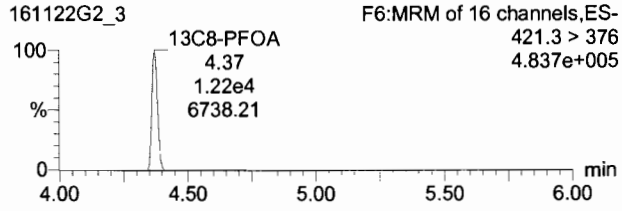

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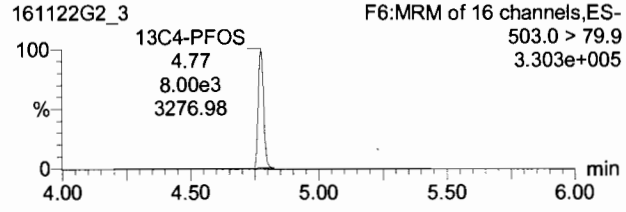

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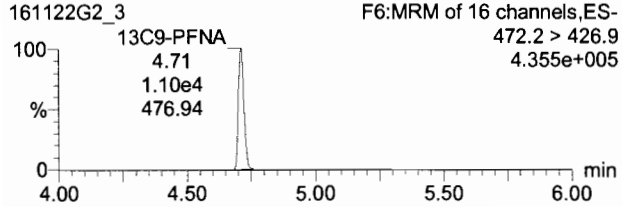

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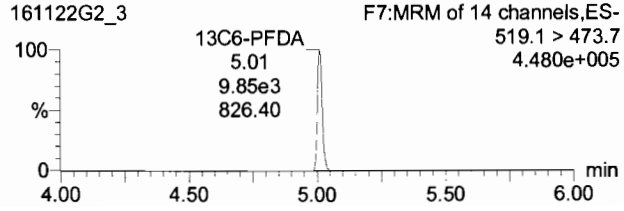

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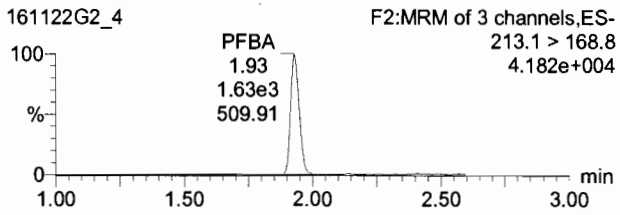
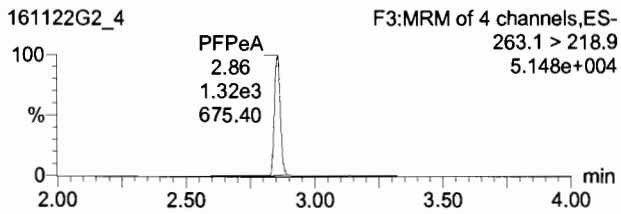


PFPeA



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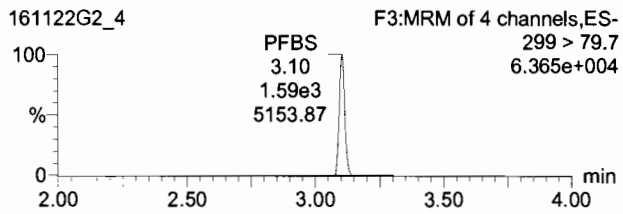

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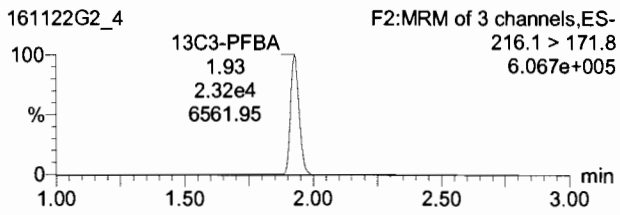

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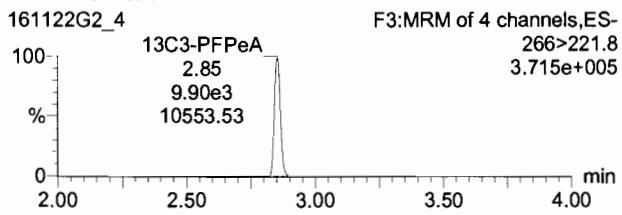
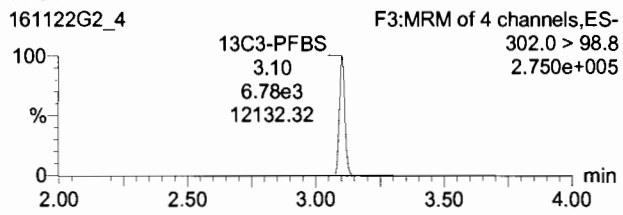


13C3-PFBS



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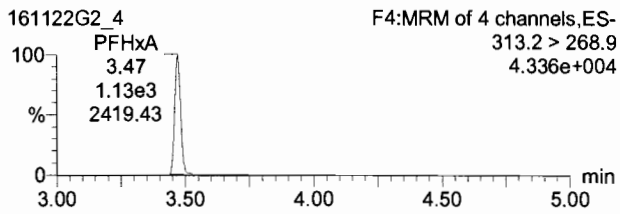

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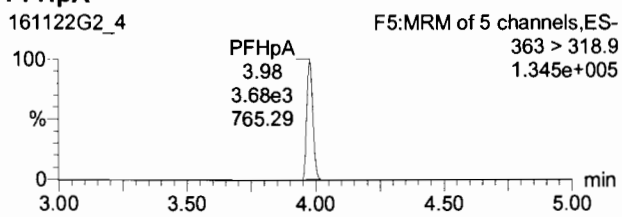

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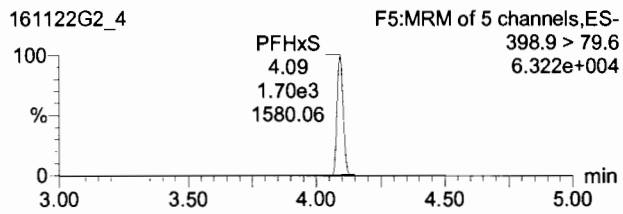

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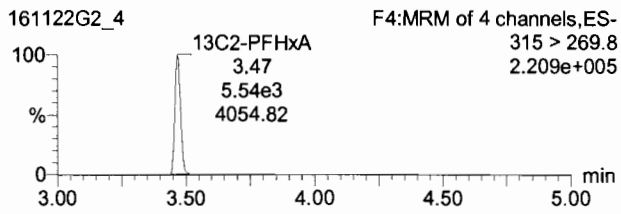

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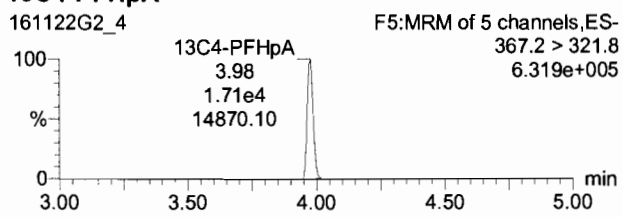

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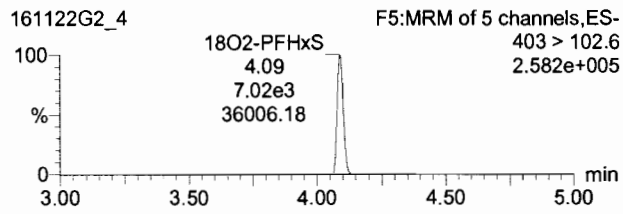

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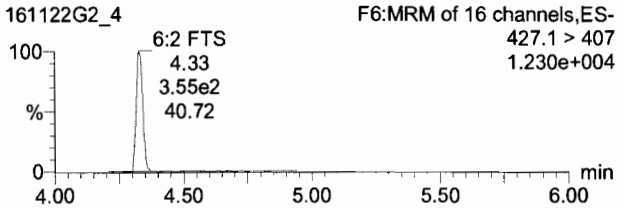
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

6:2 FTS



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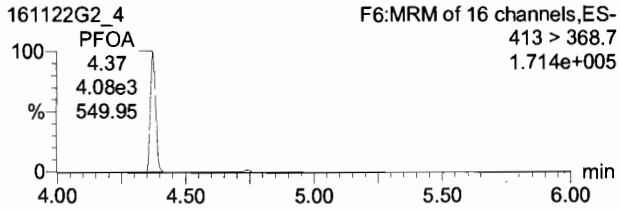

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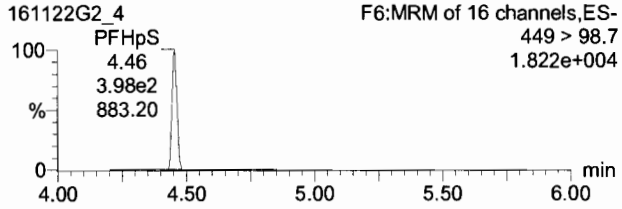

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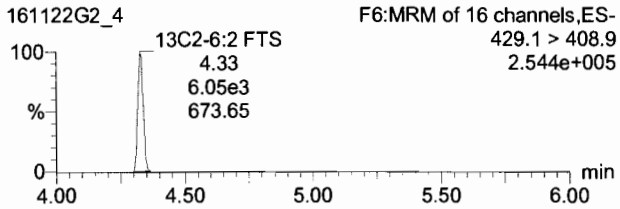

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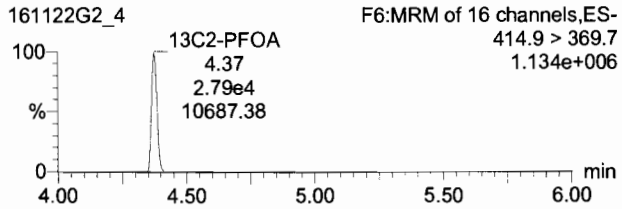

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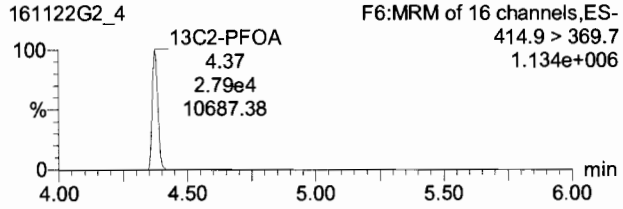

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Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

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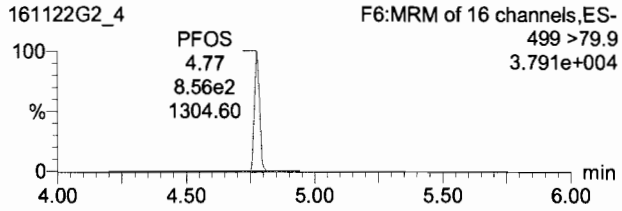

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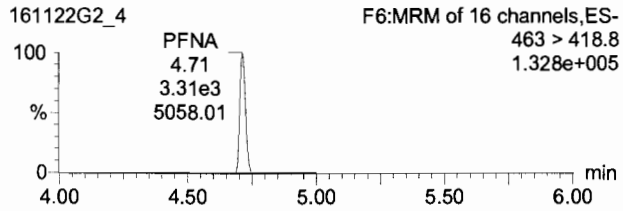

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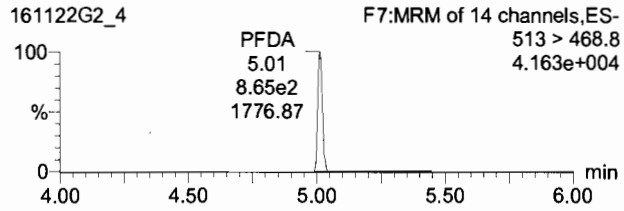

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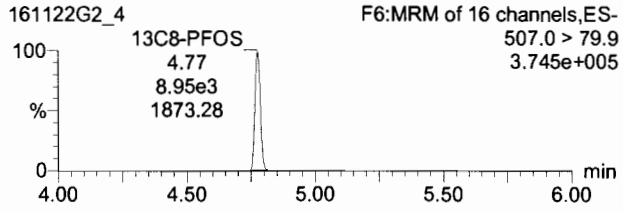

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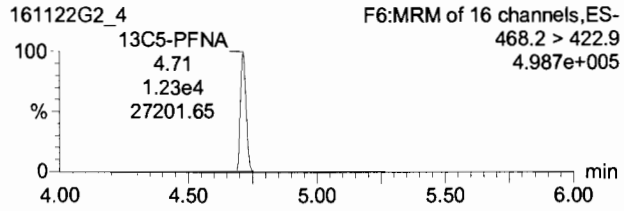

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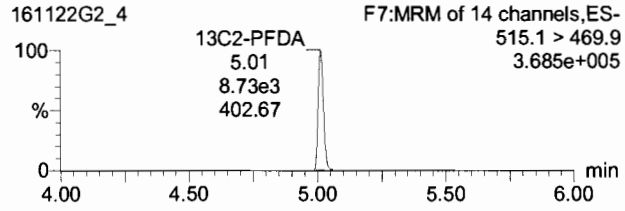

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Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
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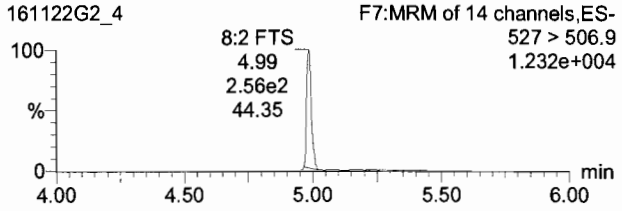
Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

8:2 FTS



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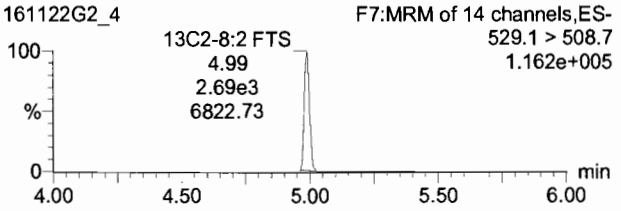
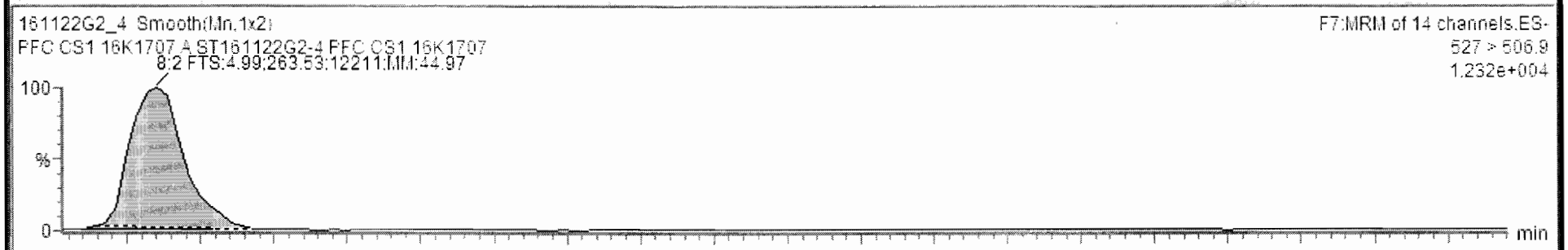


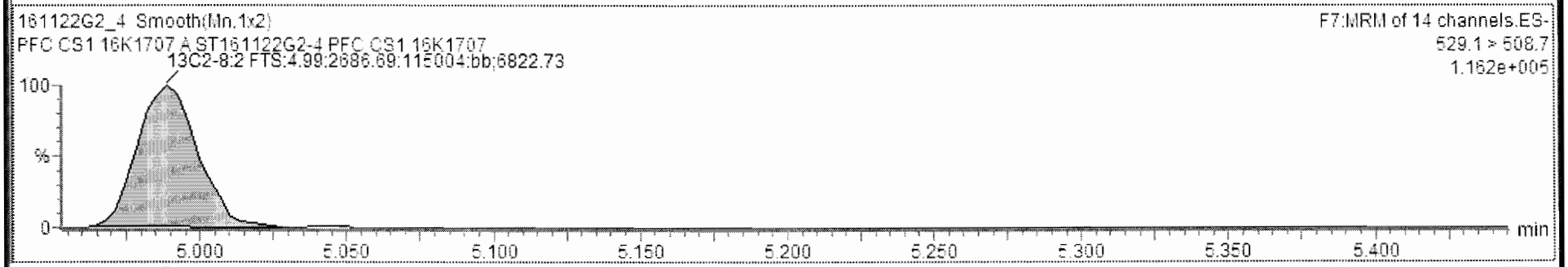
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_4 - ST161122G2-4 PFC CS1 16K1707 - PFC CS1 16K1707 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	1.13e3		1.000	3.47	3.47	1.69	NO	84.7	0.0000000
5	PFHpA	363 > 318.9	3.68e3		1.000	3.98	3.98	1.82	NO	90.8	0.0947461
6	PFHxS	398.9 > 79.6	1.70e3		1.000	4.09	4.09	1.78	NO	88.8	0.0182811
7	6:2 FTS	427.1 > 407	3.55e2		1.000	4.33	4.33	1.90	NO	94.8	0.5167321
8	PFOA	413 > 368.7	4.08e3		1.000	4.37	4.37	1.93	NO	96.6	0.0000000
9	PFHpS	449 > 98.7	3.98e2		1.000	4.37	4.45	2.18	NO	109.2	0.2540463
10	PFOS	499 >79.9	8.56e2		1.000	4.78	4.77	1.63	NO	81.6	0.2016580
11	PFNA	463 > 418.8	3.31e3		1.000	4.71	4.71	2.16	NO	107.8	0.1049312
12	PFDA	513 > 468.8	8.65e2		1.000	5.01	5.01	2.11	NO	105.6	0.0369790
13	8:2 FTS	527 > 506.9	2.64e2		1.000	4.99	4.99	2.44	NO	122.1	0.1423108
14	13C3-PFBA	216.1 > 171.8	2.32e4	1.21	1.000	1.93	1.93	13.4	NO	107.0	0.0051901
15	13C3-PFPeA	266>221.8	9.90e3	0.448	1.000	2.83	2.85	13.1	NO	104.8	0.0029331
16	13C3-PFBS	302.0 > 98.8	6.78e3	0.302	1.000	3.09	3.10	13.3	NO	106.4	0.0028004





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Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
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Name: 161122G2_4, Date: 22-Nov-2016, Time: 10:25:42, ID: ST161122G2-4 PFC CS1 16K1707, Description: PFC CS1 16K1707 A

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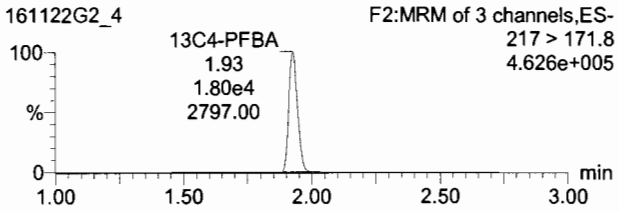
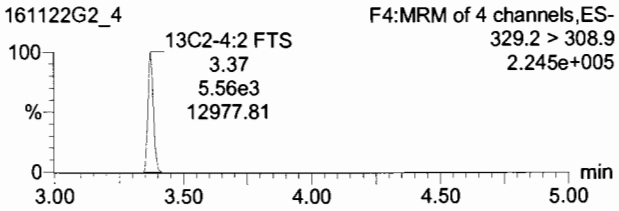


13C2-4:2 FTS



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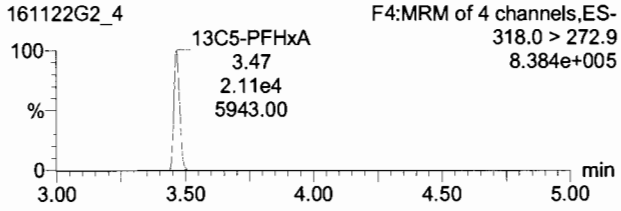

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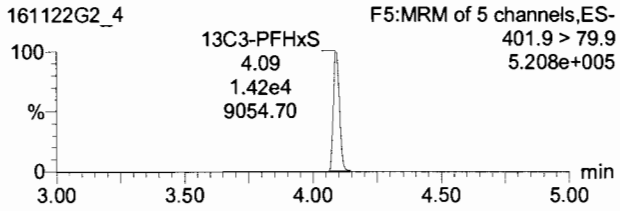

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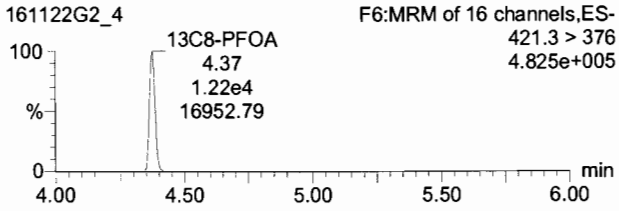

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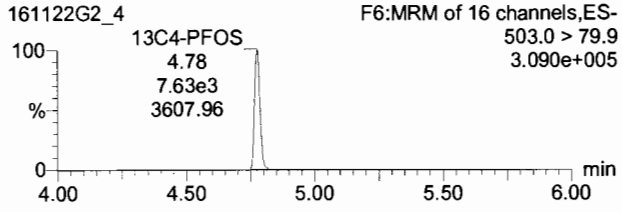

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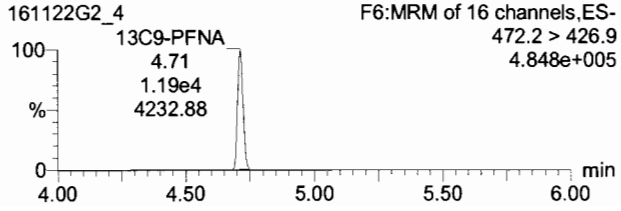

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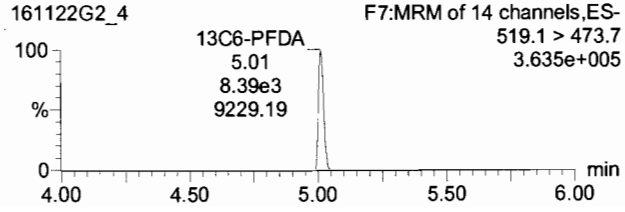

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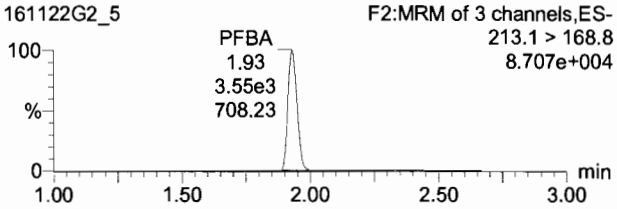

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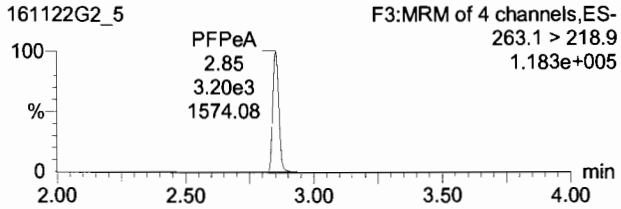

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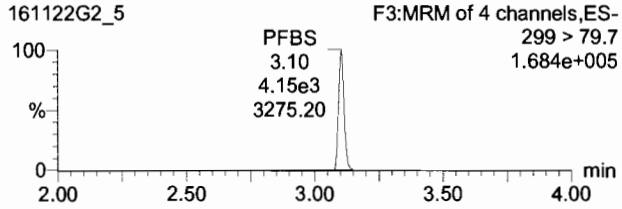

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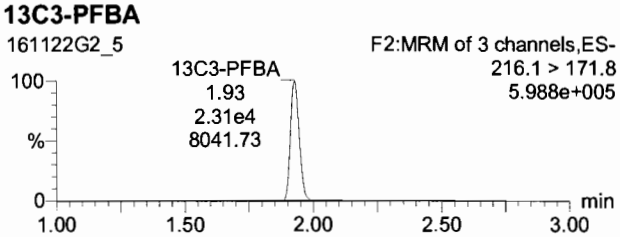

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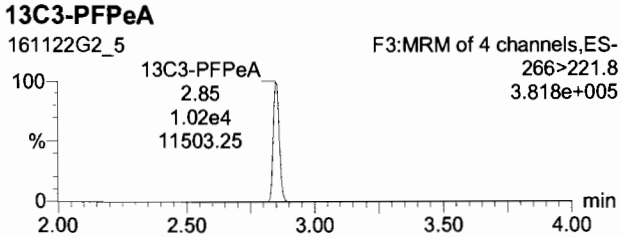

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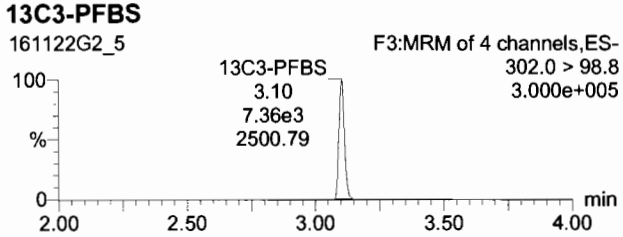

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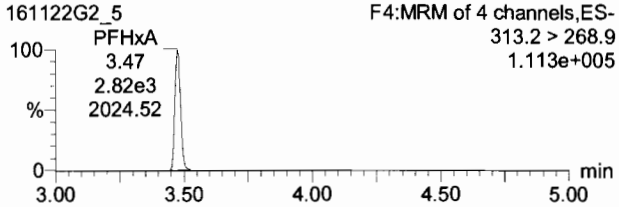

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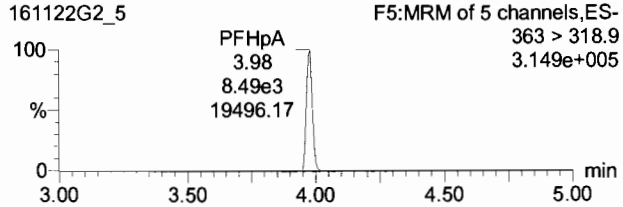

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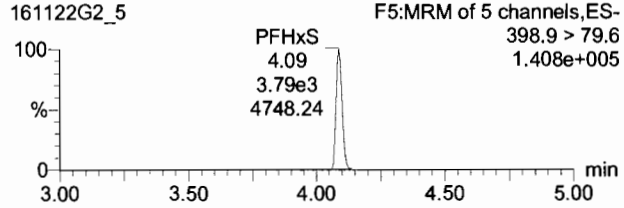

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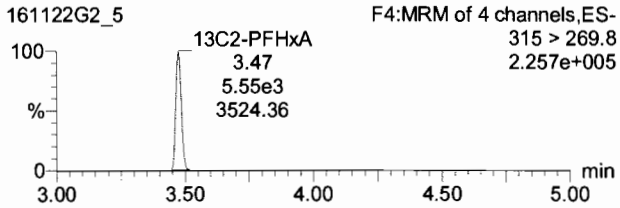

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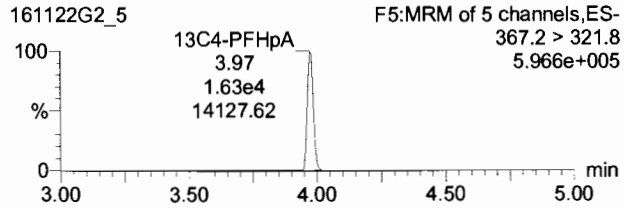

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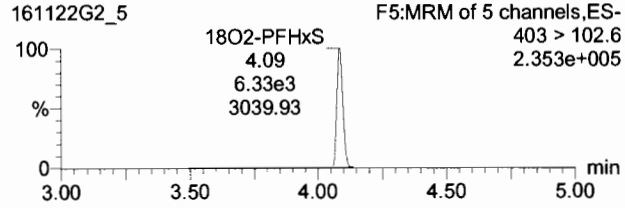

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Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
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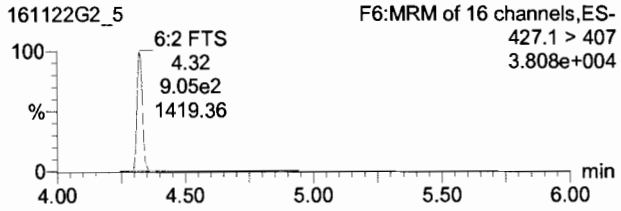
Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

6:2 FTS



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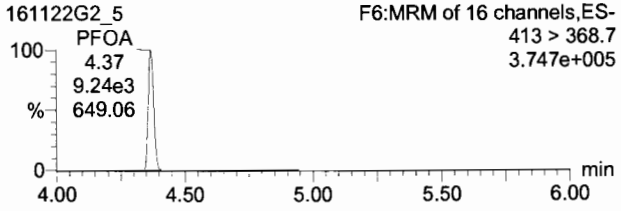

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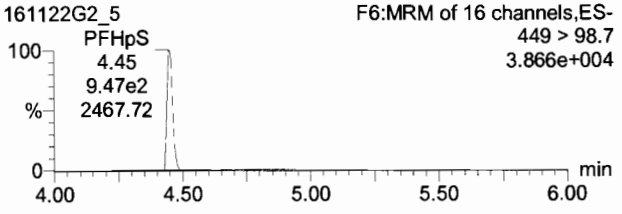

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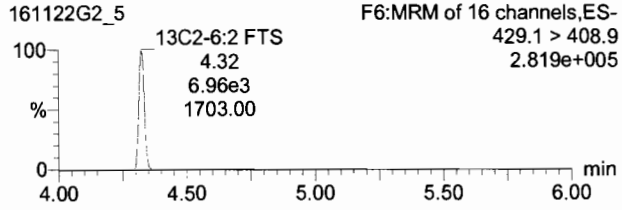

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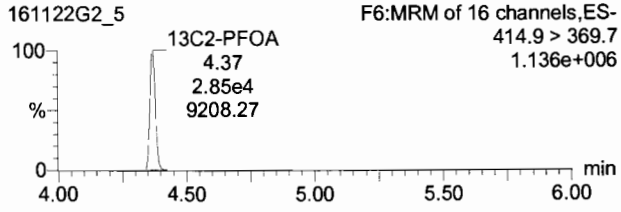
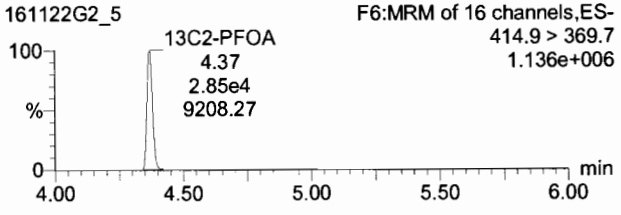


13C2-PFOA

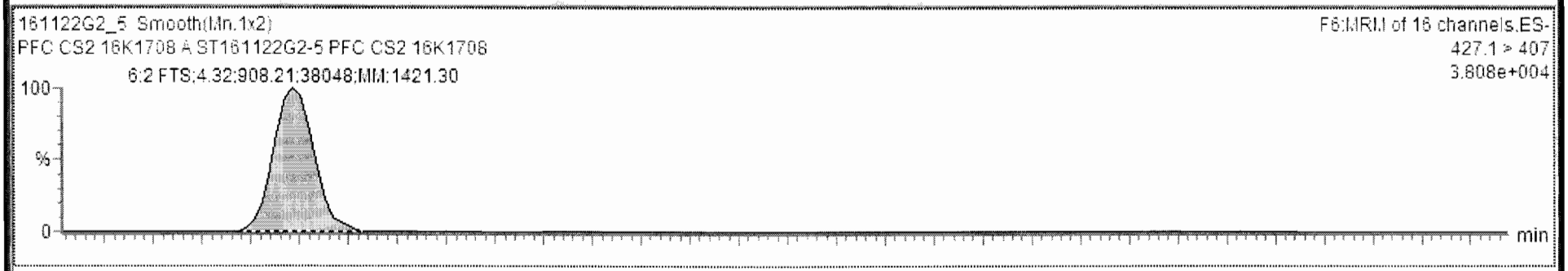


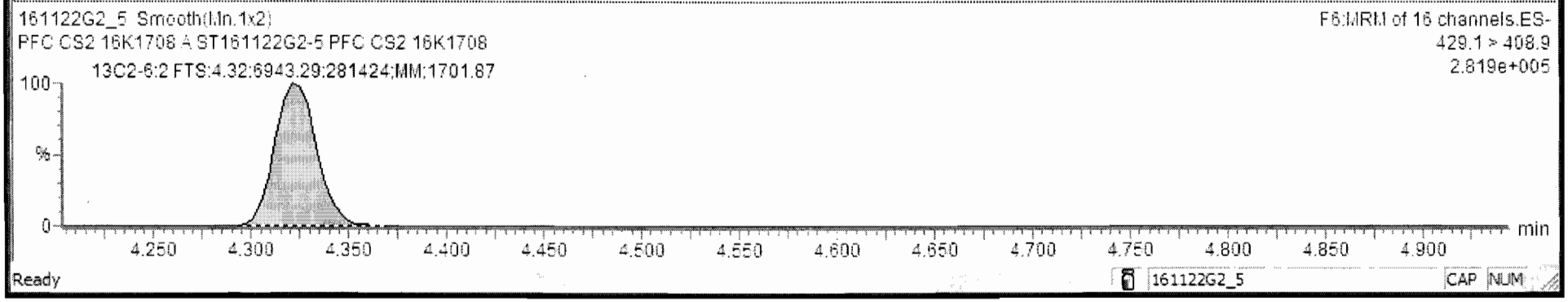
TargetLynx - untitled * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_5 - ST161122G2-5 PFC CS2 16K1708 - PFC CS2 16K1708 A

	Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
4	PFHxA	313.2 > 268.9	2.82e3	2.538	0.508	1.000	3.47	4.23	84.5	0.0000000		0.9985
5	PFHpA	363 > 318.9	8.49e3	8.514	1.303	1.000	3.98	4.28	85.7	0.0898946		0.9993
6	PFHxS	398.9 > 79.6	3.79e3	7.475	1.495	1.000	4.09	4.36	87.2	0.0177628		0.9975
7	6:2 FTS	427.1 > 407	9.08e2	1.635	0.327	1.000	4.32	4.17	83.4	0.2827957		0.9789
8	PFOA	413 > 368.7	9.24e3	4.054	0.811	1.000	4.37	4.40	88.1	0.0000000		0.9990
9	PFHpS	449 > 98.7	9.47e2	0.416	0.083	1.000	4.45	4.76	95.2	0.2525704		0.9956
10	PFOS	499 >79.9	2.17e3	3.949	0.790	1.000	4.77	4.93	98.6	0.2032607		0.9935
11	PFNA	463 > 418.8	7.19e3	7.012	1.402	1.000	4.71	4.37	87.5	0.1046439		0.9954
12	PFDA	513 > 468.8	1.70e3	2.630	0.526	1.000	5.01	4.44	88.9	0.0382137		0.9973
13	8:2 FTS	527 > 506.9	4.40e2	2.081	0.416	1.000	4.99	4.15	82.9	0.0148202		0.9823
14	13C3-PFBA	216.1 > 171.8	2.31e4	15.177	1.214	1.000	1.93	12.6	100.8	0.0039178	4.60	
15	13C3-PFPeA	266>221.8	1.02e4	5.822	0.466	1.000	2.85	13.0	104.1	0.0026412	3.92	
16	13C3-PFBS	302.0 > 98.8	7.36e3	4.183	0.335	1.000	3.10	13.8	110.8	0.0141320	5.67	





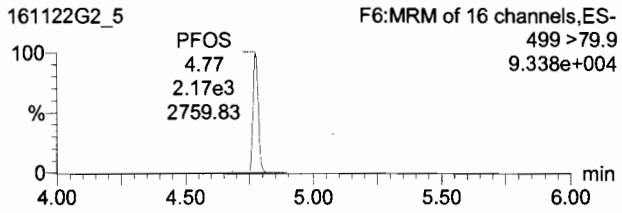
Ready 161122G2_5 CAP NUM

Dataset: Untitled

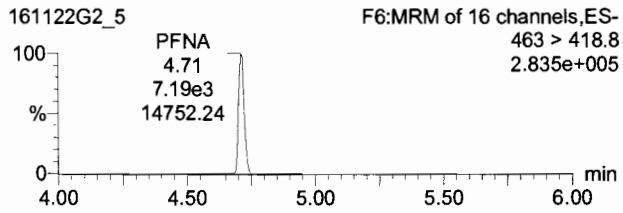
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

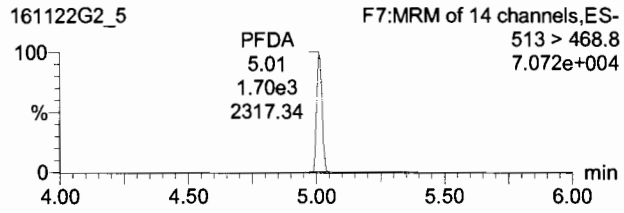
PFOS



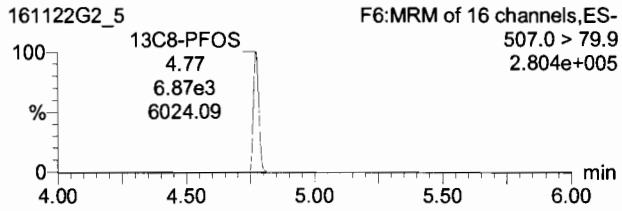
PFNA



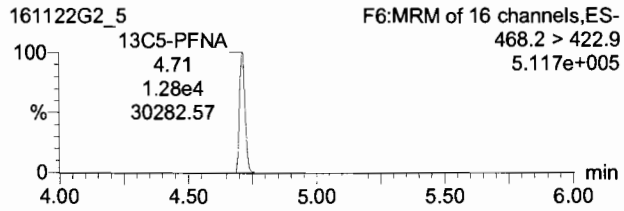
PFDA



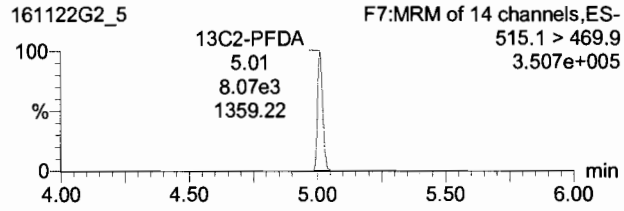
13C8-PFOS



13C5-PFNA



13C2-PFDA



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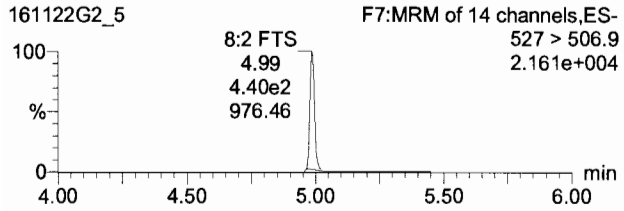
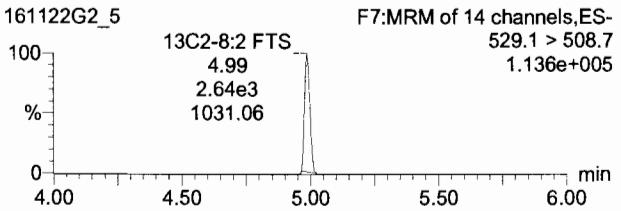
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

8:2 FTS



13C2-8:2 FTS

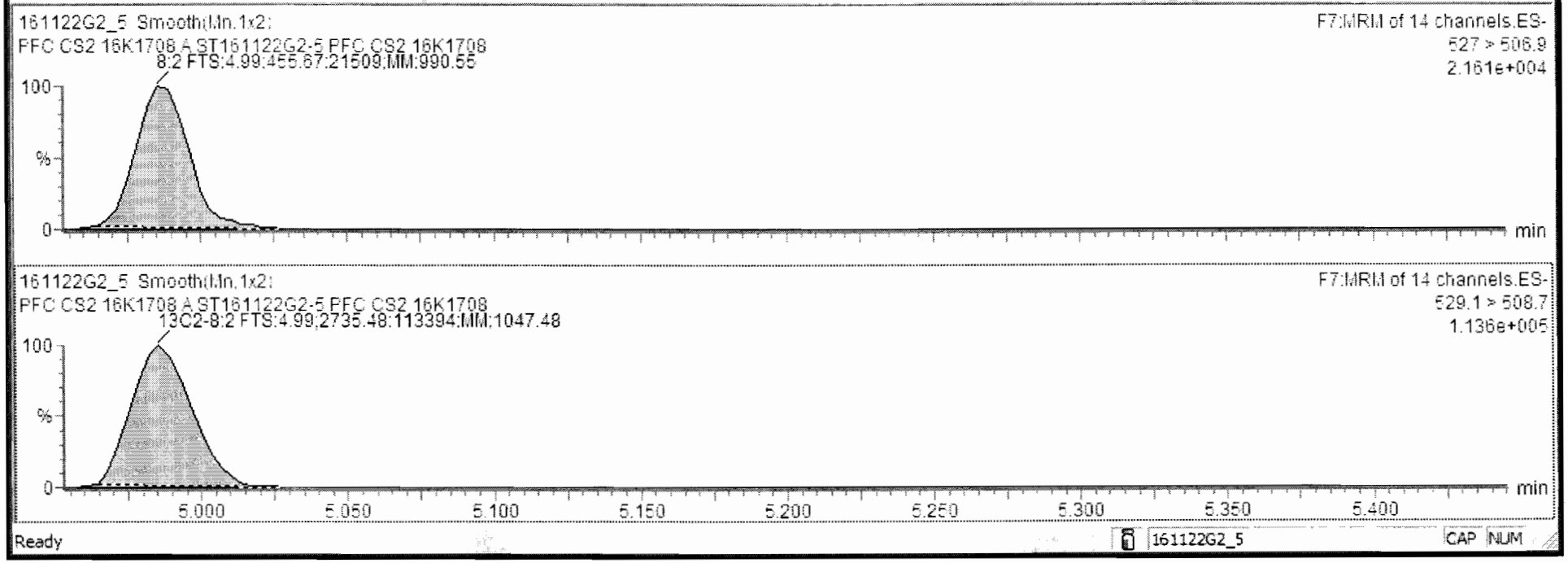


TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_5 - ST161122G2-5 PFC CS2 16K1708 - PFC CS2 16K1708 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	2.82e3		1.000	3.47	3.47	4.23	NO	84.5	0.0000000
5	PFHpA	363 > 318.9	8.49e3		1.000	3.97	3.98	4.28	NO	85.7	0.0896946
6	PFHxS	398.9 > 79.6	3.79e3		1.000	4.09	4.09	4.36	YES	87.2	0.0177626
7	6:2 FTS	427.1 > 407	9.08e2		1.000	4.32	4.32	3.69	NO	73.9	0.4496157
8	PFOA	413 > 368.7	9.24e3		1.000	4.37	4.37	4.40	YES	88.1	0.0000000
9	PFHpS	449 > 98.7	9.47e2		1.000	4.37	4.45	4.76	YES	95.2	0.2525704
10	PFOS	499 >79.9	2.17e3		1.000	4.77	4.77	4.93	YES	98.6	0.2032607
11	PFNA	463 > 418.8	7.19e3		1.000	4.71	4.71	4.37	YES	87.5	0.1046439
12	PFDA	513 > 468.8	1.70e3		1.000	5.01	5.01	4.44	NO	88.9	0.0382137
13	8:2 FTS	527 > 506.9	4.56e2		1.000	4.99	4.99	4.16	NO	83.2	0.0072296
14	13C3-PFBA	216.1 > 171.8	2.31e4	1.21	1.000	1.93	1.93	12.6	NO	100.8	0.0039178
15	13C3-PFPeA	266>221.8	1.02e4	0.448	1.000	2.84	2.85	13.0	NO	104.1	0.0026412
16	13C3-PFBS	302.0 > 98.8	7.36e3	0.302	1.000	3.10	3.10	13.8	NO	110.8	0.0141320



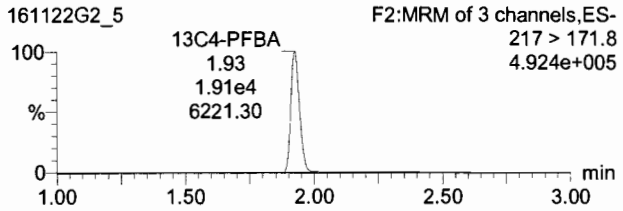
Ready 161122G2_5 CAP NUM

Dataset: Untitled

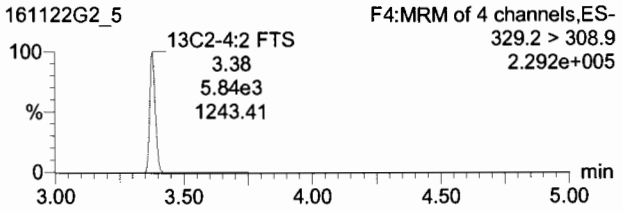
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_5, Date: 22-Nov-2016, Time: 10:38:18, ID: ST161122G2-5 PFC CS2 16K1708, Description: PFC CS2 16K1708 A

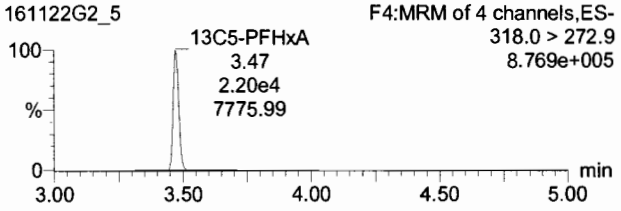
13C4-PFBA



13C2-4:2 FTS



13C5-PFHxA



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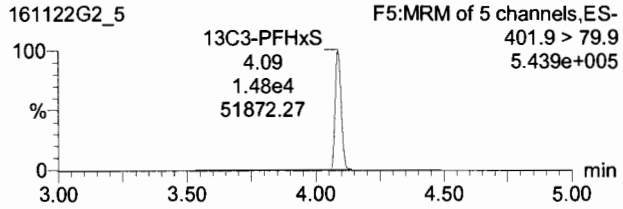
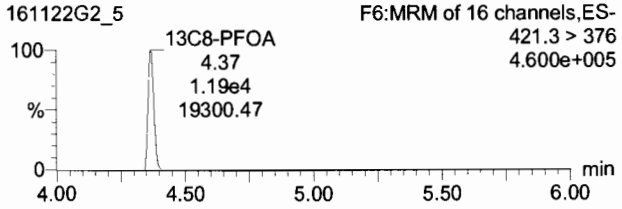
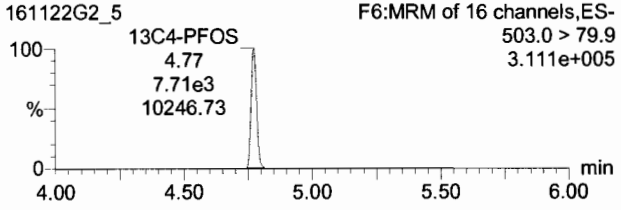


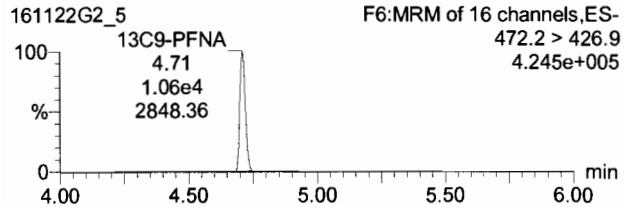
13C8-PFOA



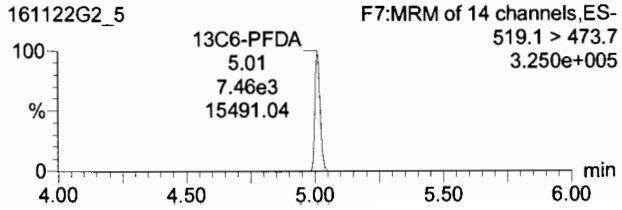
13C4-PFOS



13C9-PFNA



13C6-PFDA



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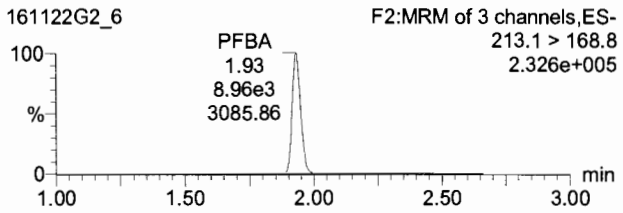
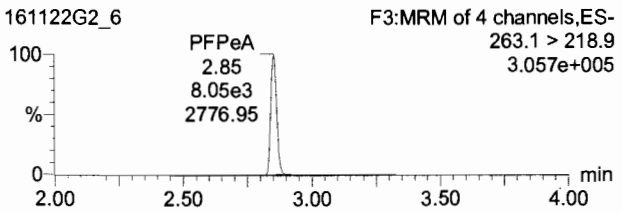
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

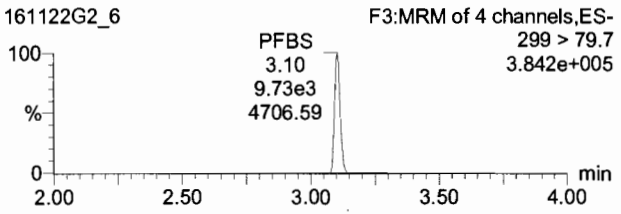
PFBA



PFPeA



PFBS



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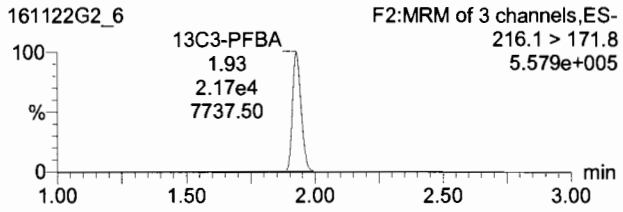

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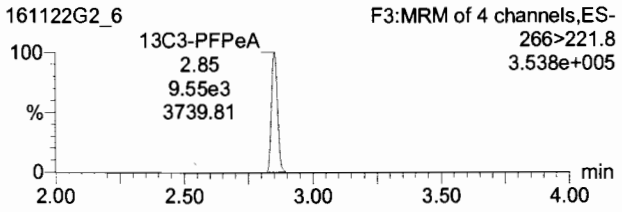
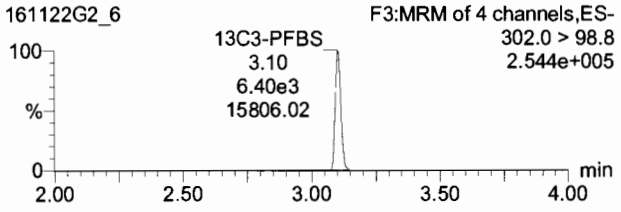
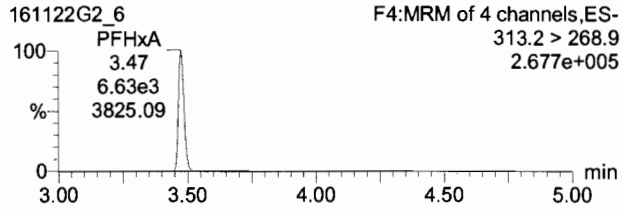


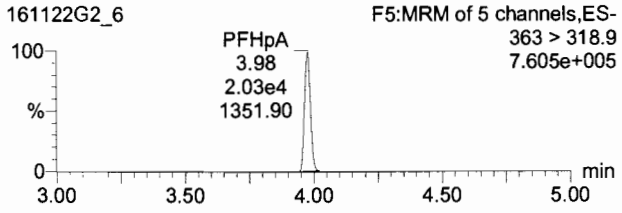
13C3-PFBS



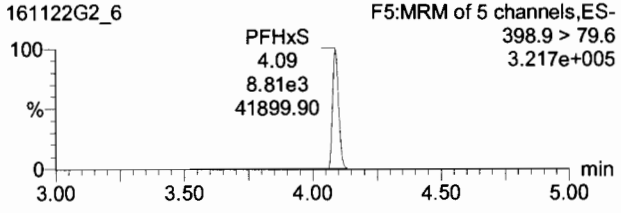
PFHxA



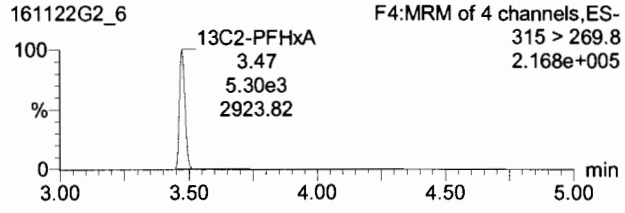
PFHpA



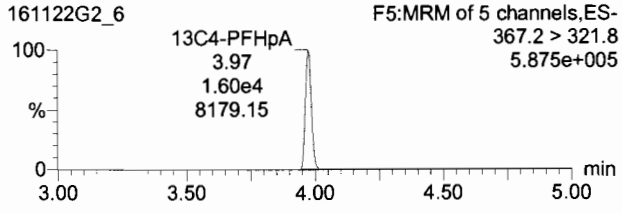
PFHxS



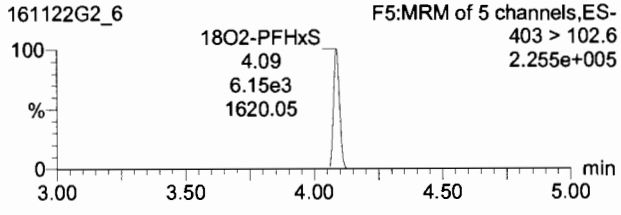
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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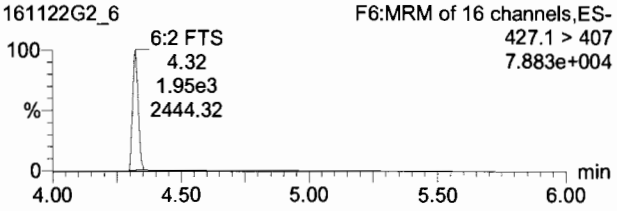
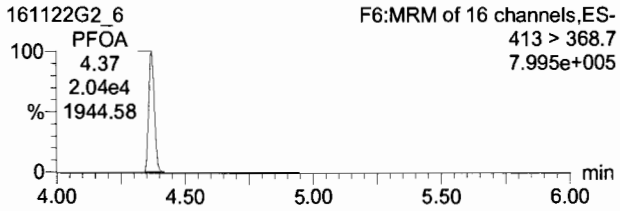
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

6:2 FTS



PFOA



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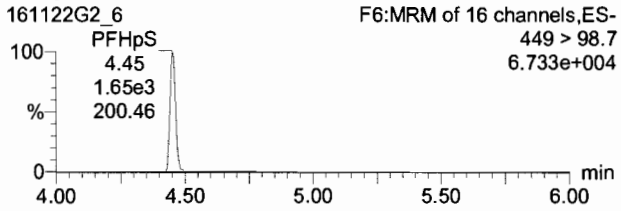
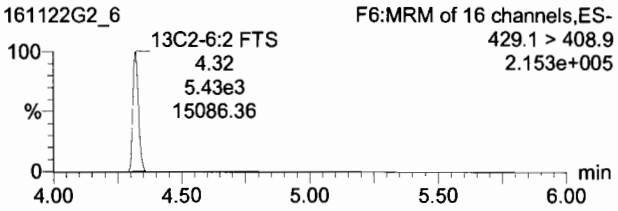


13C2-6:2 FTS



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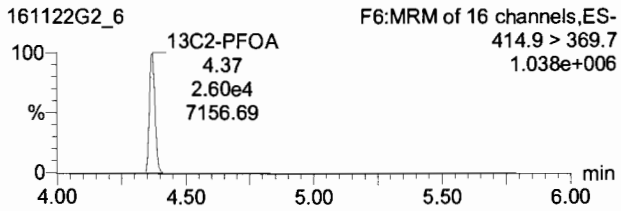
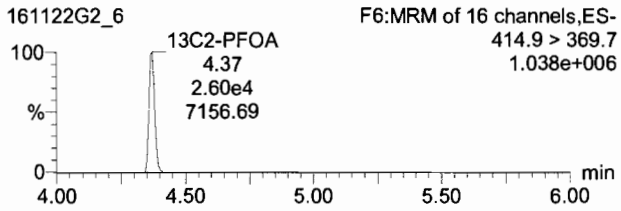


13C2-PFOA



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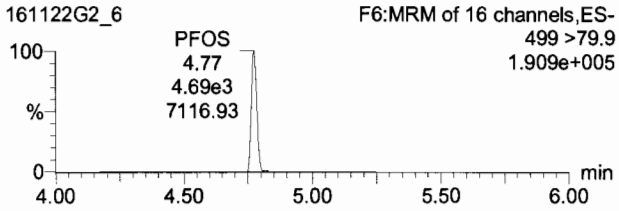
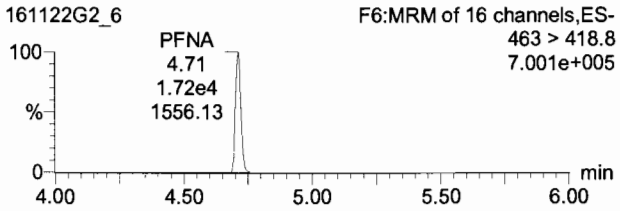
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

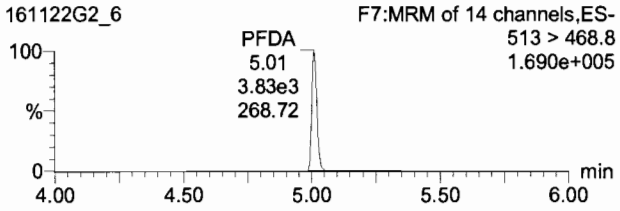
PFOS



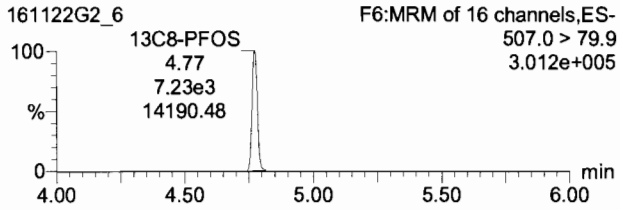
PFNA



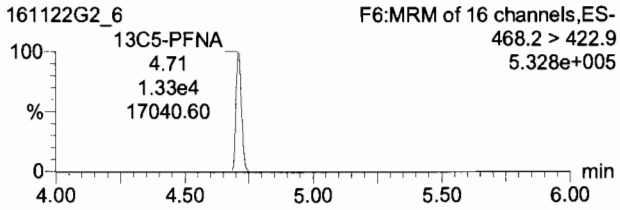
PFDA



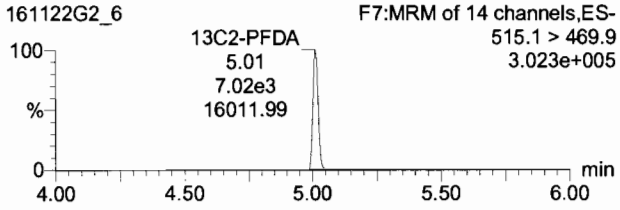
13C8-PFOS



13C5-PFNA



13C2-PFDA



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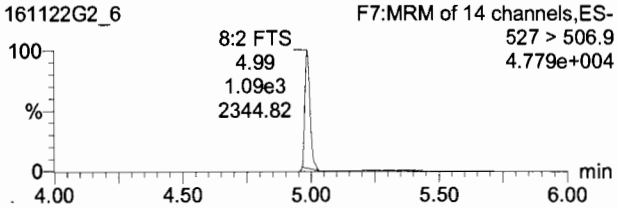
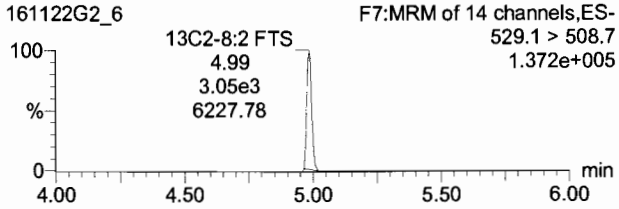
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

8:2 FTS



13C2-8:2 FTS

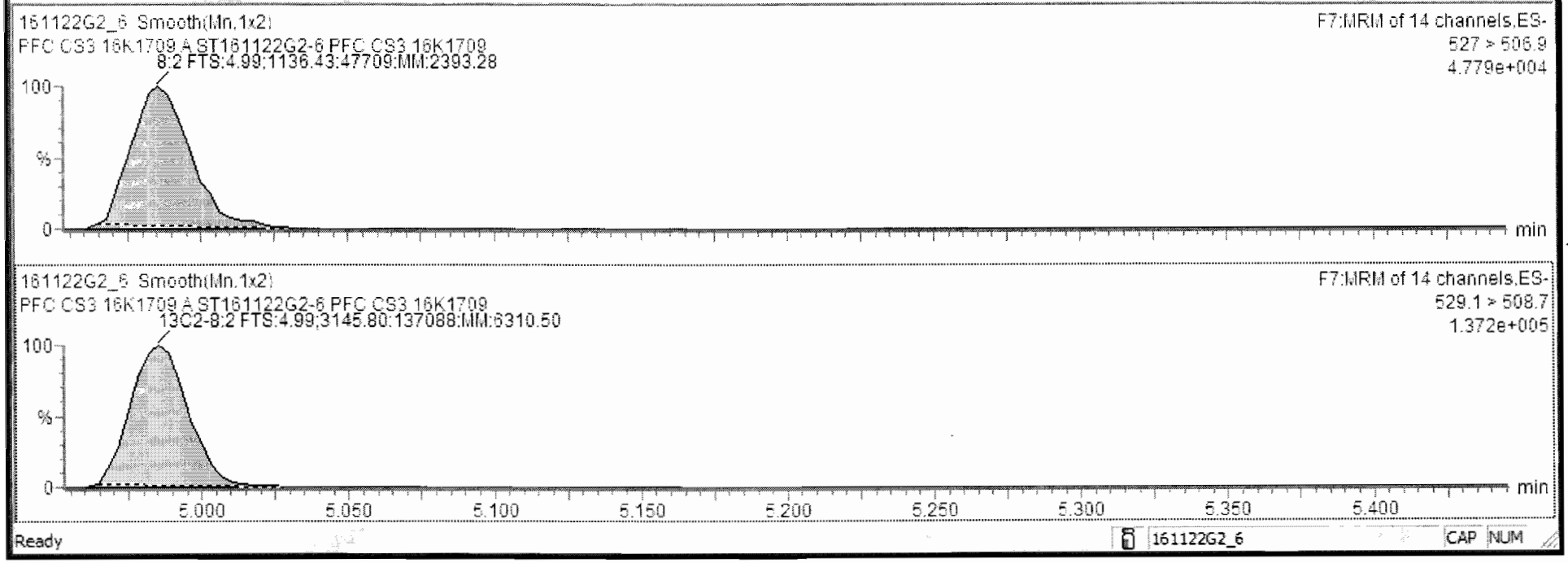


TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_6 - ST161122G2-6 PFC CS3 16K1709 - PFC CS3 16K1709 A

	Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	6.63e3		1.000	3.47	3.47	10.4	YES	104.3	0.0000000
5	PFHpA	363 > 318.9	2.03e4		1.000	3.97	3.98	10.3	YES	103.0	0.1083914
6	PFHxS	398.9 > 79.6	8.81e3		1.000	4.09	4.09	10.4	YES	104.1	0.0160911
7	6:2 FTS	427.1 > 407	1.95e3		1.000	4.32	4.32	9.48	YES	94.8	0.4528547
8	PFOA	413 > 368.7	2.04e4		1.000	4.37	4.37	10.8	YES	108.1	0.0000000
9	PFHpS	449 > 98.7	1.65e3		1.000	4.37	4.45	8.86	YES	88.6	0.3575371
10	PFOS	499 >79.9	4.65e3		1.000	4.78	4.77	9.90	YES	99.0	0.2020896
11	PFNA	463 > 418.8	1.72e4		1.000	4.71	4.71	10.0	YES	100.1	0.1200018
12	PFDA	513 > 468.8	3.83e3		1.000	5.01	5.01	11.5	NO	114.8	0.1427597
13	8:2 FTS	527 > 506.9	1.14e3		1.000	4.99	4.99	9.07	YES	90.7	0.0043622
14	13C3-PFBA	216.1 > 171.8	2.17e4	1.21	1.000	1.93	1.93	13.3	NO	106.8	0.0044280
15	13C3-PFPeA	266>221.8	9.55e3	0.448	1.000	2.84	2.85	12.4	NO	99.4	0.0076173
16	13C3-PFBS	302.0 > 98.8	6.40e3	0.302	1.000	3.10	3.10	12.3	NO	98.6	0.0019245



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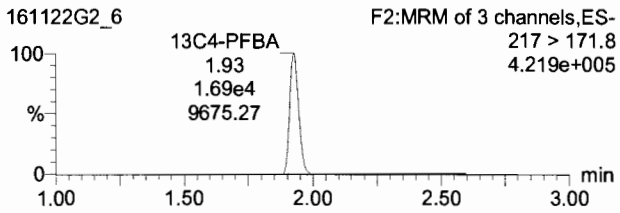
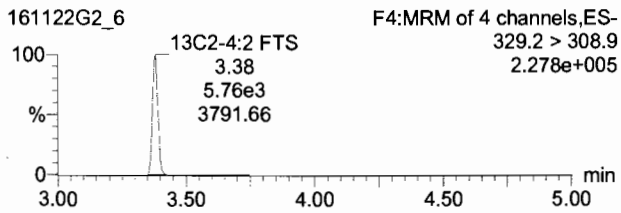
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_6, Date: 22-Nov-2016, Time: 10:50:54, ID: ST161122G2-6 PFC CS3 16K1709, Description: PFC CS3 16K1709 A

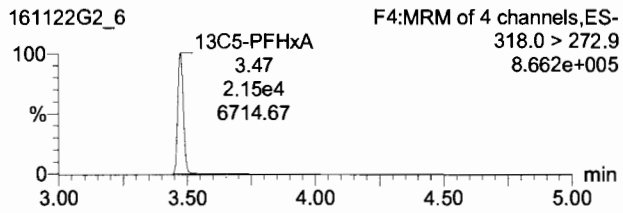
13C4-PFBA



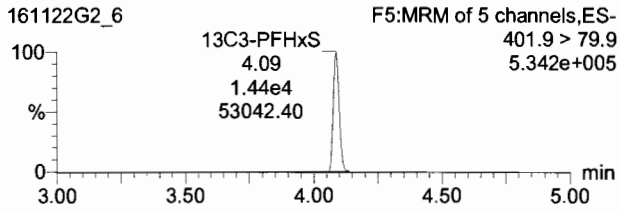
13C2-4:2 FTS



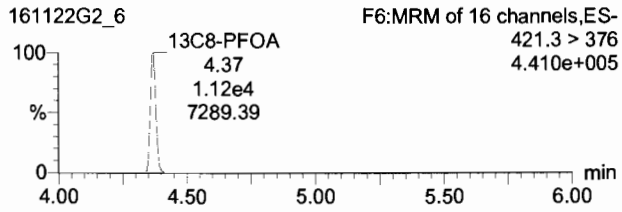
13C5-PFHxA



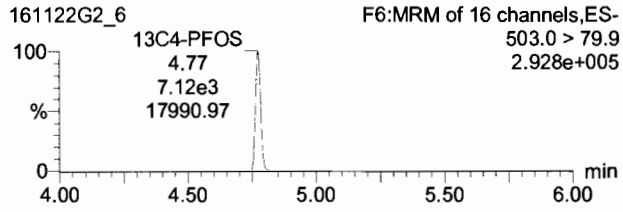
13C3-PFHxS



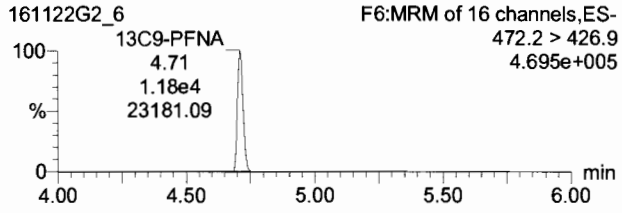
13C8-PFOA



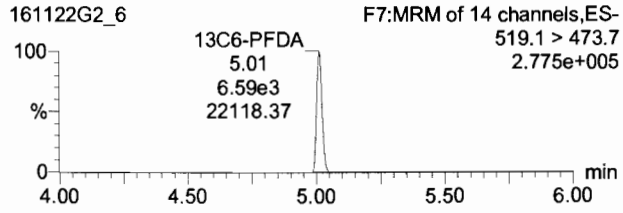
13C4-PFOS



13C9-PFNA



13C6-PFDA



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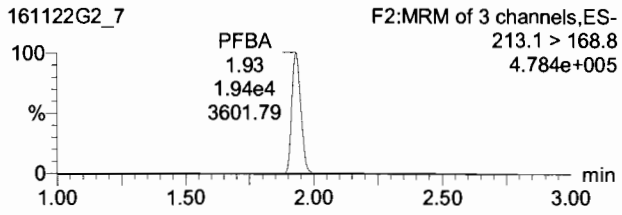
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

PFBA



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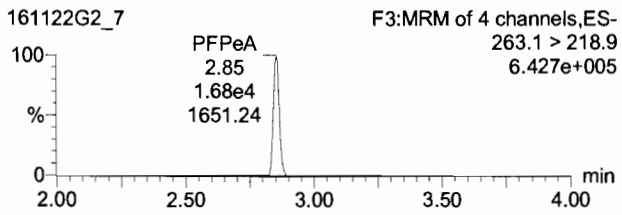
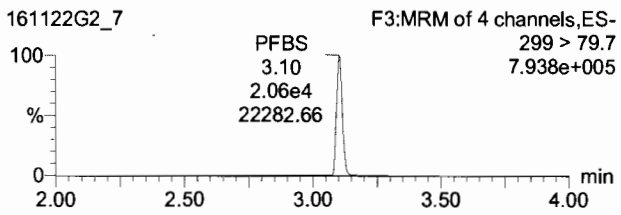
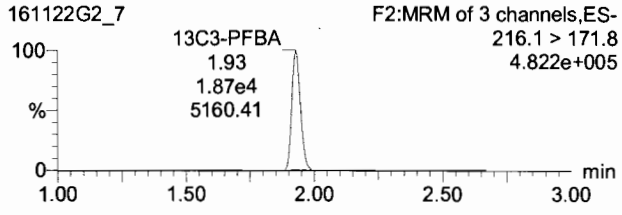


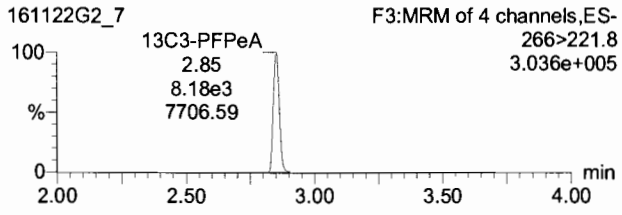
PFBS



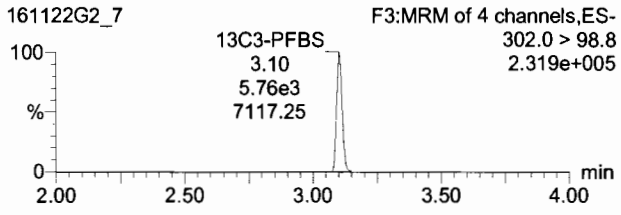
13C3-PFBA



13C3-PFPeA



13C3-PFBS



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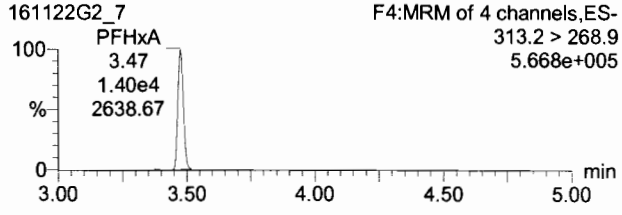
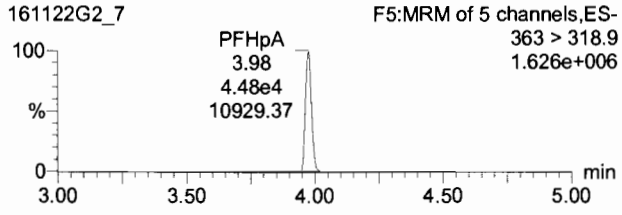


PFHpA



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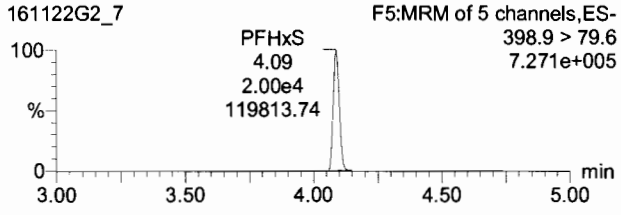

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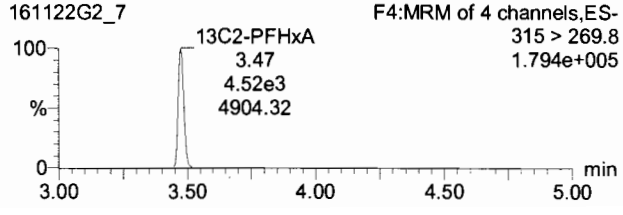
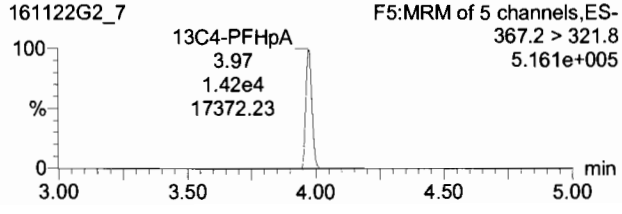
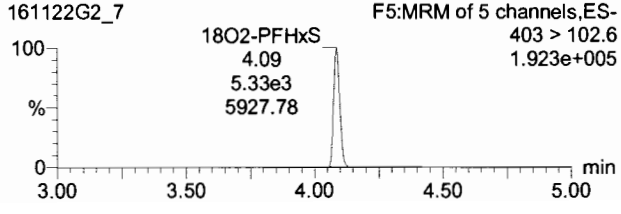


13C4-PFHpA



18O2-PFHxS



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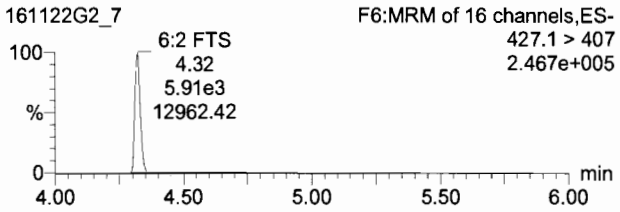
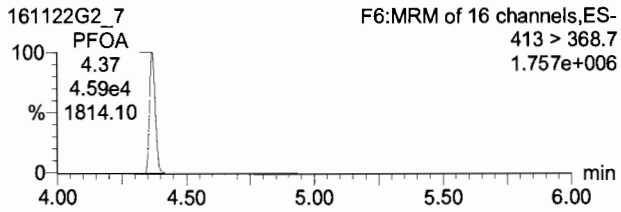
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

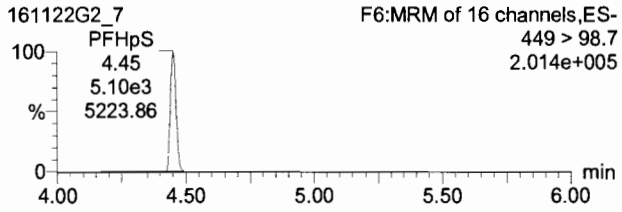
6:2 FTS



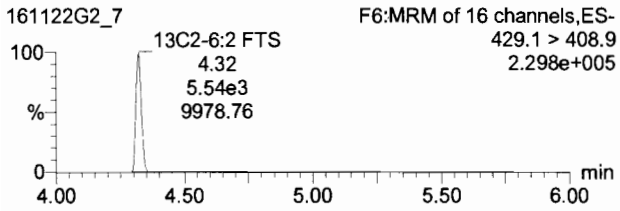
PFOA



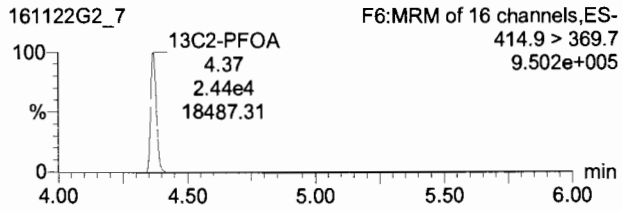
PFHpS



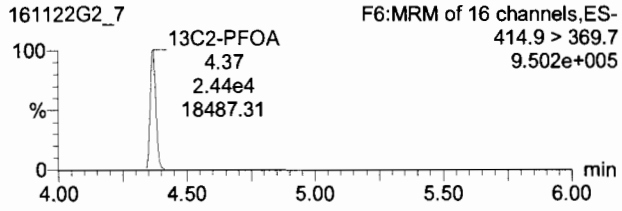
13C2-6:2 FTS



13C2-PFOA



13C2-PFOA



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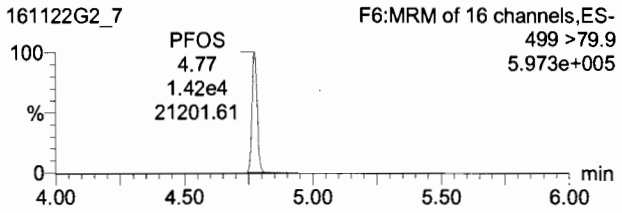
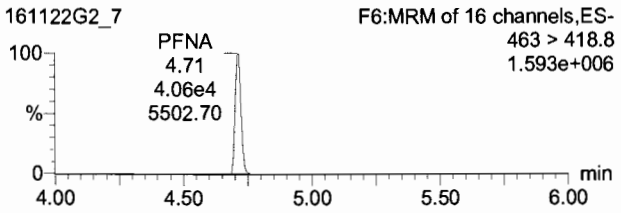
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

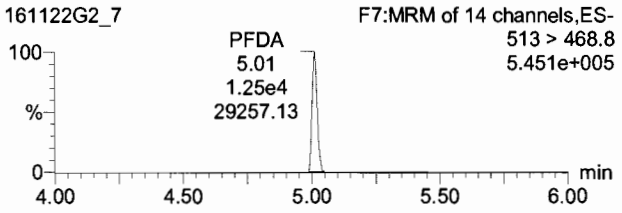
PFOS



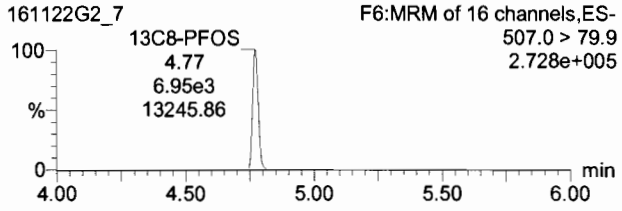
PFNA



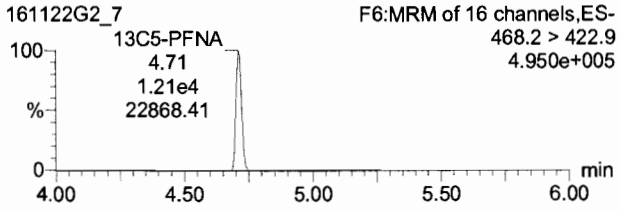
PFDA



13C8-PFOS



13C5-PFNA



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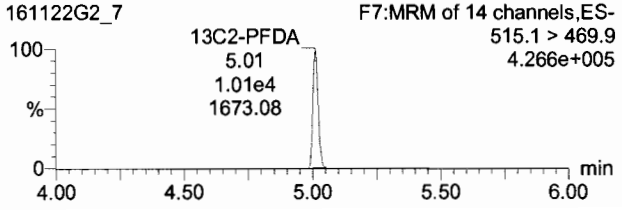

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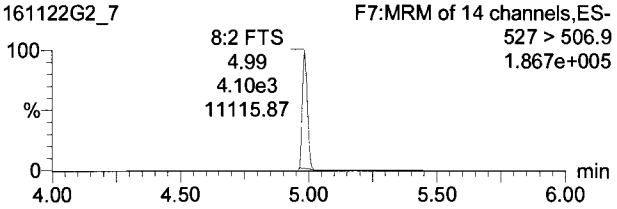
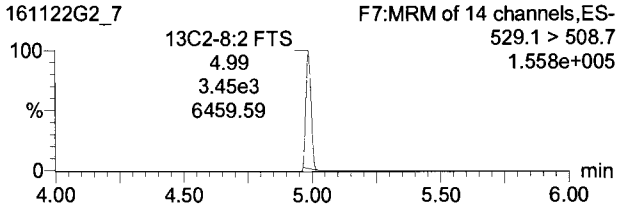
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

8:2 FTS



13C2-8:2 FTS

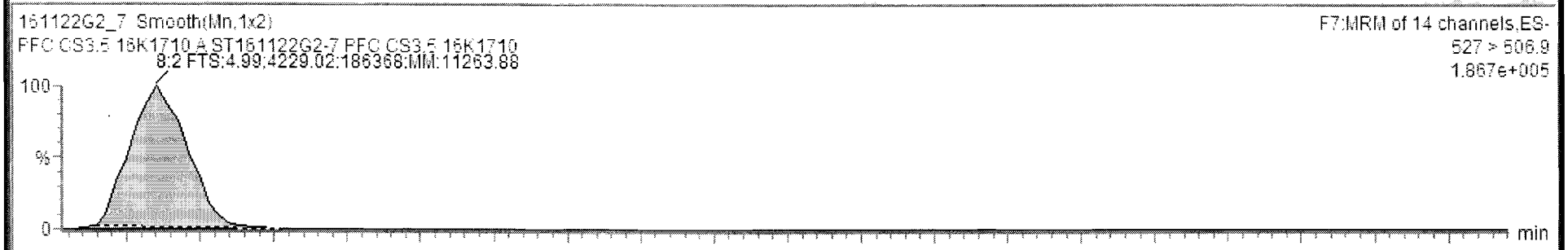


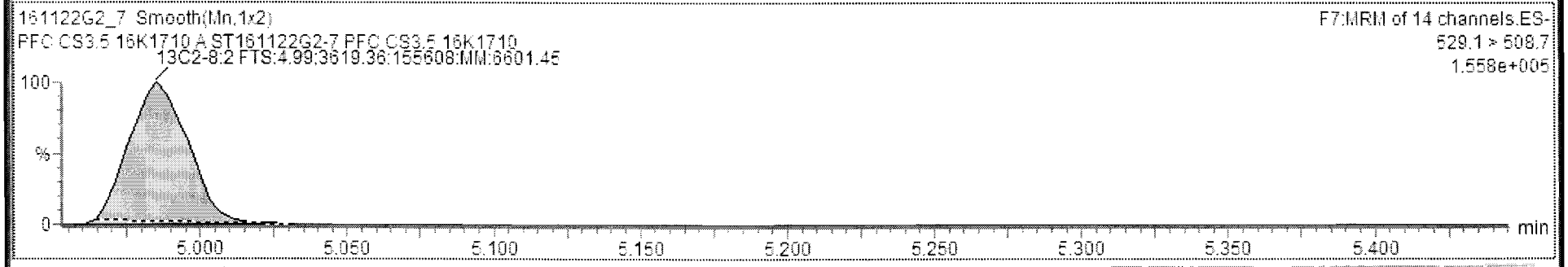
TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_7 - ST161122G2-7 PFC CS3.5 16K1710 - PFC CS3.5 16K1710 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	1.40e4		1.000	3.47	3.47	25.9	YES	103.6	0.0090379
5	PFHpA	363 > 318.9	4.48e4		1.000	3.97	3.98	25.4	YES	101.7	0.0949494
6	PFHxS	398.9 > 79.6	2.00e4		1.000	4.09	4.09	27.2	YES	108.9	0.0160447
7	6:2 FTS	427.1 > 407	5.91e3		1.000	4.32	4.32	28.5	YES	113.9	0.4488633
8	PFOA	413 > 368.7	4.59e4		1.000	4.37	4.37	26.0	YES	104.2	0.0000000
9	PFHpS	449 > 98.7	5.10e3		1.000	4.37	4.45	28.6	YES	114.5	0.2616468
10	PFOS	499 >79.9	1.42e4		1.000	4.77	4.77	30.8	YES	123.3	0.2026154
11	PFNA	463 > 418.8	4.06e4		1.000	4.71	4.71	25.6	YES	102.3	0.1150546
12	PFDA	513 > 468.8	1.25e4		1.000	5.01	5.01	26.1	NO	104.4	0.0359399
13	8:2 FTS	527 > 506.9	4.23e3		1.000	4.99	4.99	29.9	YES	119.7	0.0019300
14	13C3-PFBA	216.1 > 171.8	1.87e4	1.21	1.000	1.93	1.93	12.3	NO	98.0	0.0059610
15	13C3-PFPeA	266>221.8	8.18e3	0.448	1.000	2.84	2.85	12.1	NO	96.9	0.0036860
16	13C3-PFBS	302.0 > 98.8	5.76e3	0.302	1.000	3.10	3.10	12.6	NO	101.1	0.0045187





161122G2_7 CAP NUM

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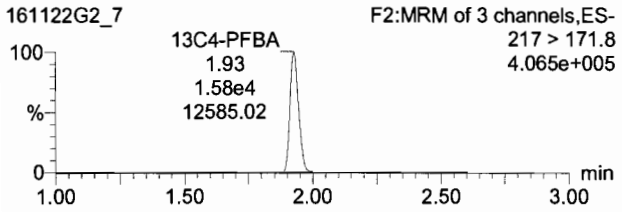
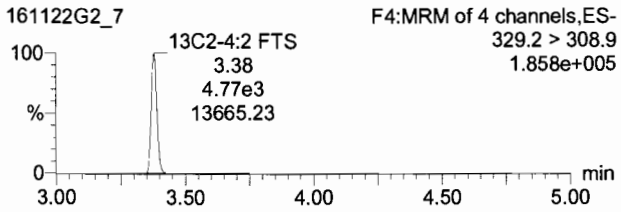
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_7, Date: 22-Nov-2016, Time: 11:03:32, ID: ST161122G2-7 PFC CS3.5 16K1710, Description: PFC CS3.5 16K1710 A

13C4-PFBA



13C2-4:2 FTS



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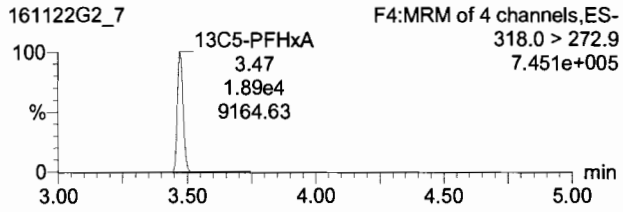

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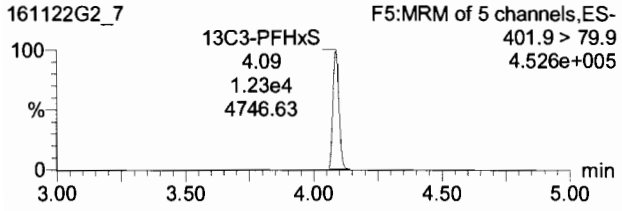

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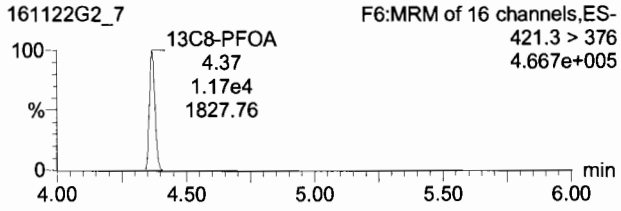

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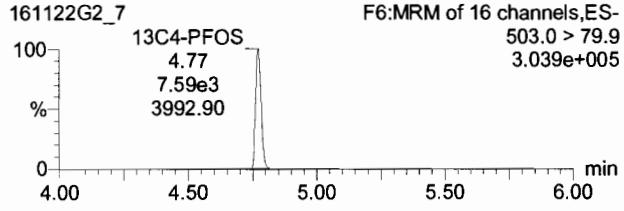

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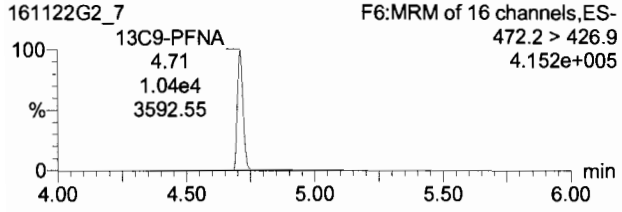

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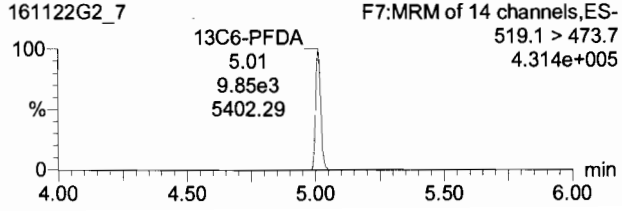

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Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

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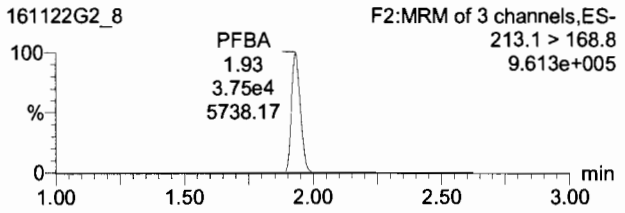

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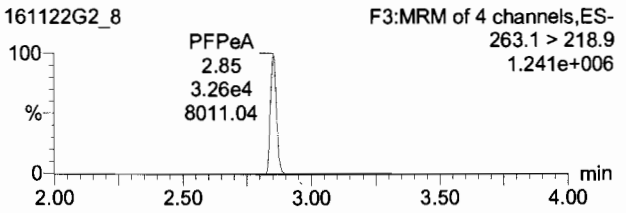

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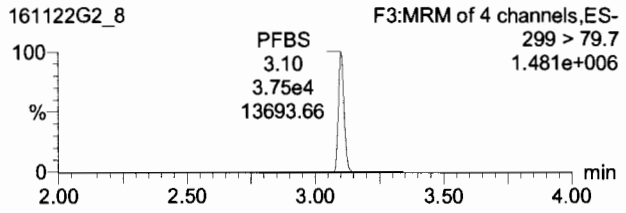

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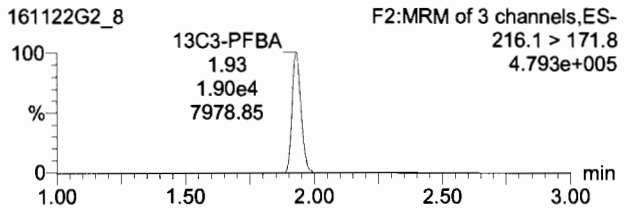

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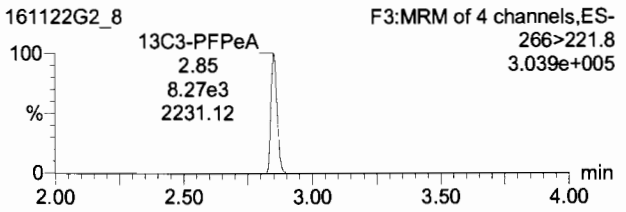

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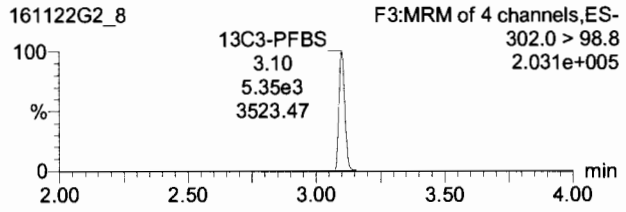

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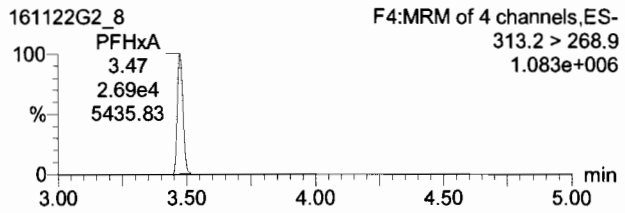

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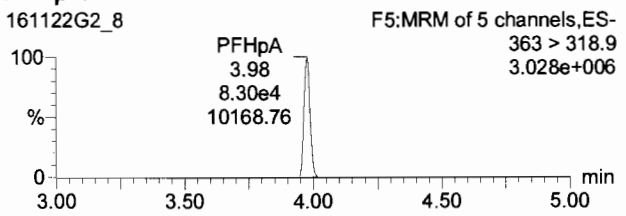

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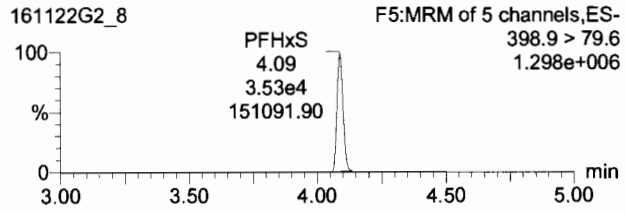

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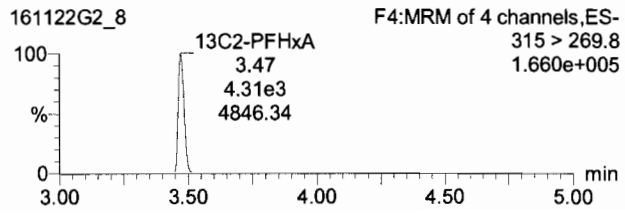

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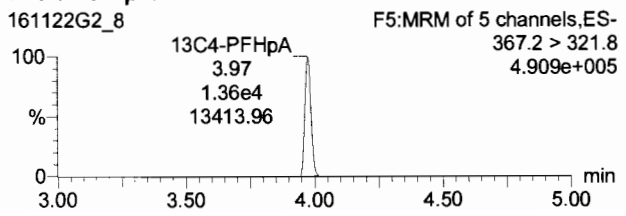

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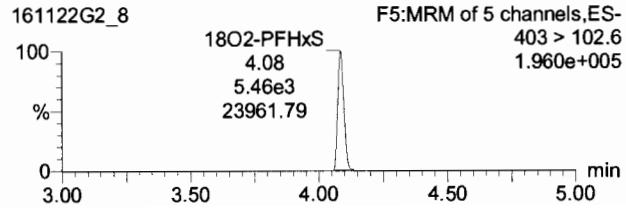

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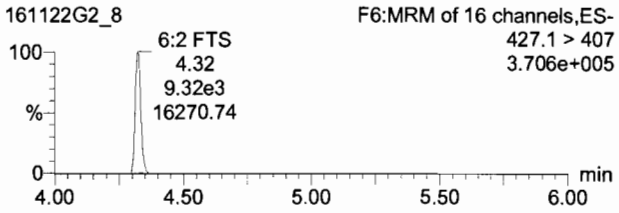
Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

6:2 FTS



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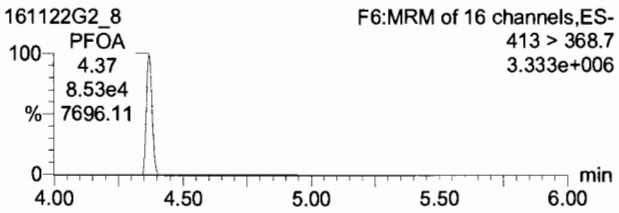

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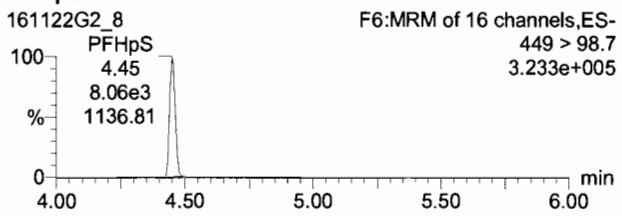

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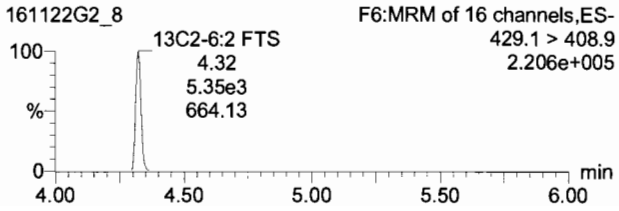

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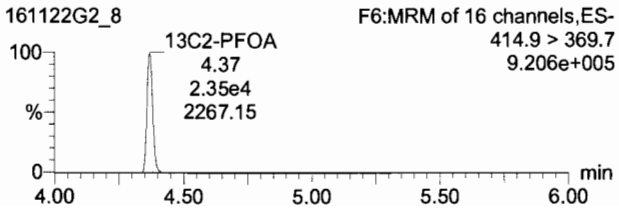

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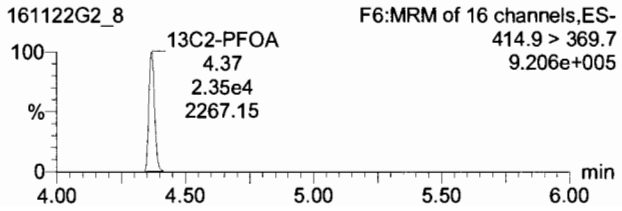

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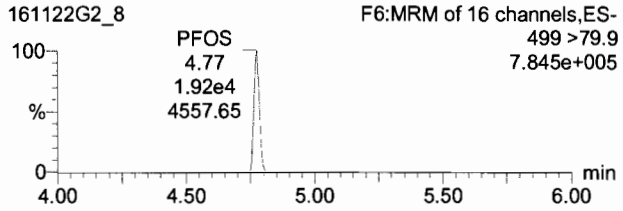
Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

PFOS



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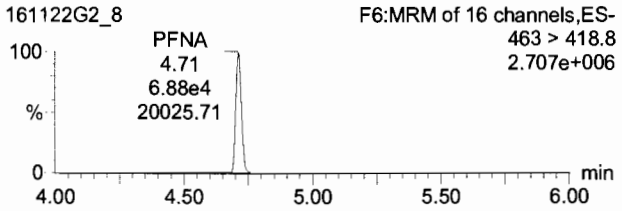

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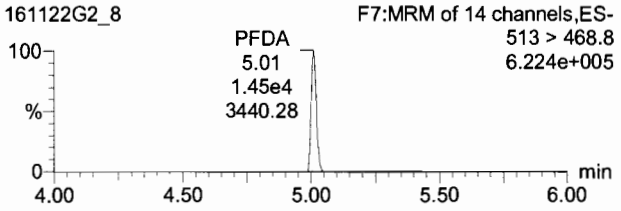

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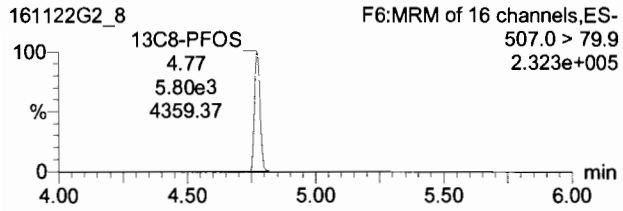

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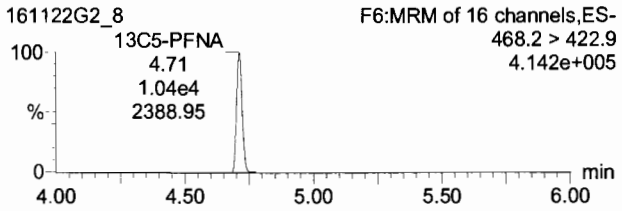

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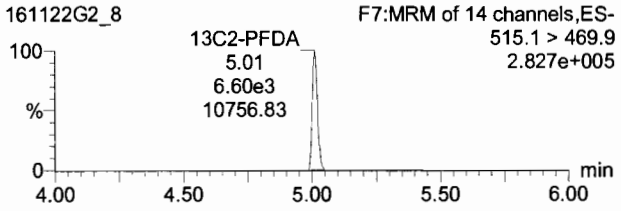

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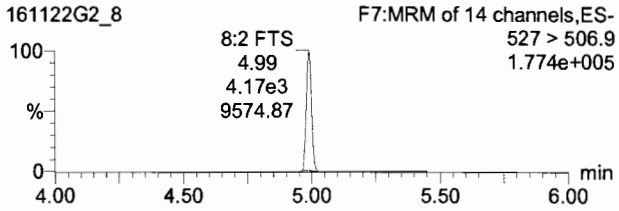
Name: 161122G2_8, Date: 22-Nov-2016, Time: 11:16:11, ID: ST161122G2-8 PFC CS4 16K1711, Description: PFC CS4 16K1711 A

8:2 FTS



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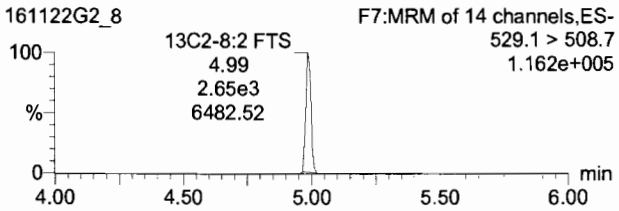
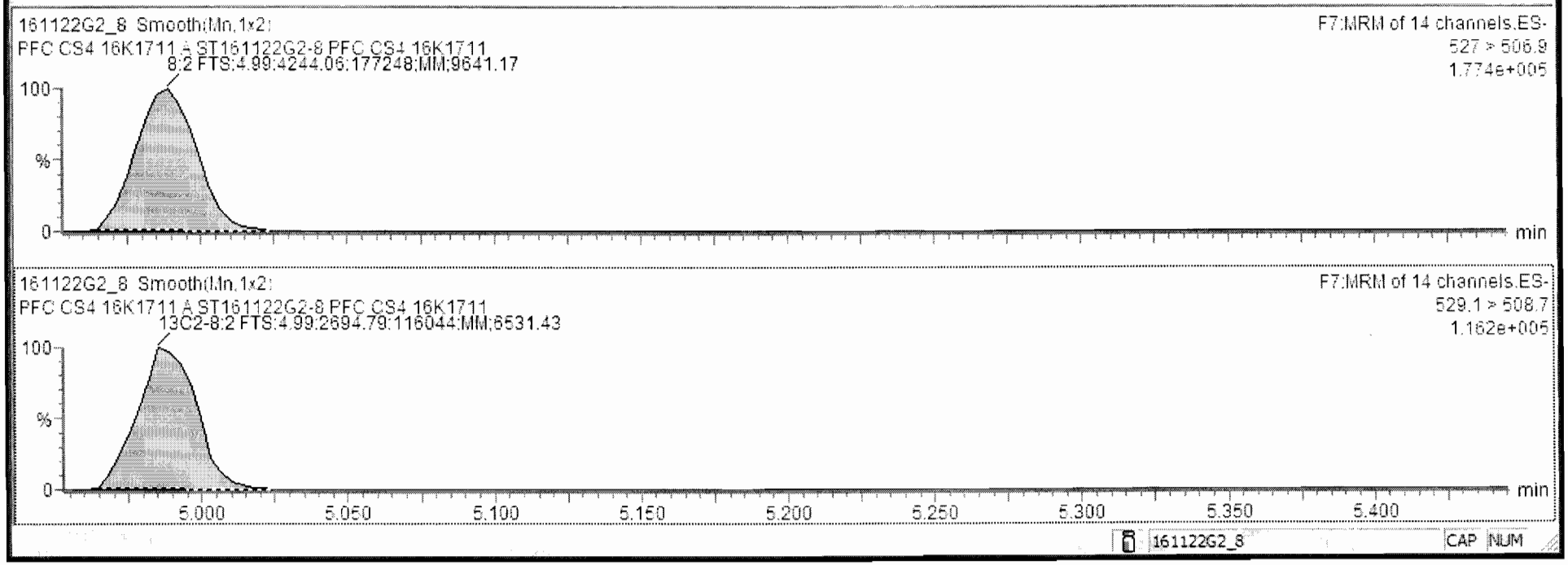


TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_8 - ST161122G2-8 PFC CS4 16K1711 - PFC CS4 16K1711 A

	Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	2.69e4		1.000	3.47	3.47	52.1	YES	104.2	0.0090824
5	PFHpA	363 > 318.9	8.30e4		1.000	3.97	3.98	49.2	YES	98.3	0.1013540
6	PFHxS	398.9 > 79.8	3.53e4		1.000	4.08	4.09	47.1	YES	94.1	0.0162677
7	6:2 FTS	427.1 > 407	9.32e3		1.000	4.32	4.32	48.3	YES	96.7	0.4501120
8	PFOA	413 > 368.7	8.53e4		1.000	4.37	4.37	50.3	YES	100.7	0.0000000
9	PFHpS	449 > 98.7	8.06e3		1.000	4.37	4.45	46.8	YES	93.6	0.3525158
10	PFOS	499 >79.9	1.92e4		1.000	4.78	4.78	49.9	YES	99.9	0.2265026
11	PFNA	463 > 418.8	8.88e4		1.000	4.71	4.71	50.5	YES	101.0	0.1101360
12	PFDA	513 > 468.8	1.45e4		1.000	5.01	5.01	46.1	NO	92.3	0.0671726
13	8:2 FTS	527 > 506.9	4.24e3		1.000	4.99	4.99	40.8	YES	81.6	0.0051719
14	13C3-PFBA	216.1 > 171.8	1.90e4	1.21	1.000	1.93	1.93	12.1	NO	96.4	0.0037281
15	13C3-PFPeA	266>221.8	8.27e3	0.448	1.000	2.84	2.85	13.0	NO	103.9	0.0135113
16	13C3-PFBS	302.0 > 98.8	5.35e3	0.302	1.000	3.10	3.10	12.5	NO	99.6	0.0084692



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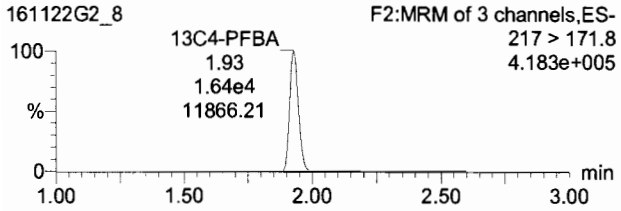
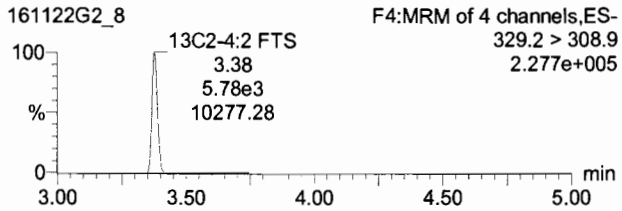
13C4-PFBA



13C2-4:2 FTS



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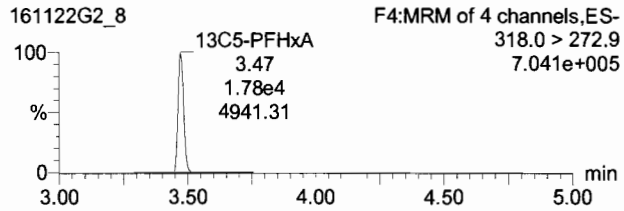

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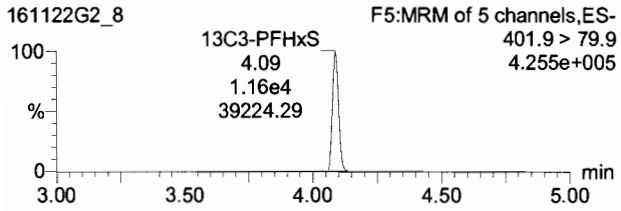

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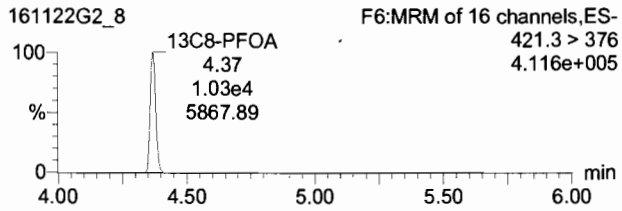

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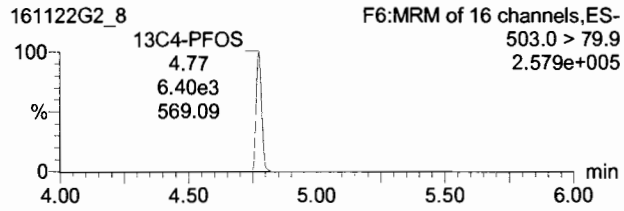

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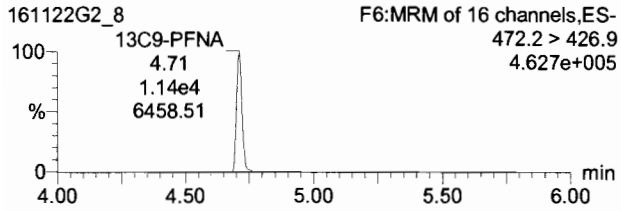

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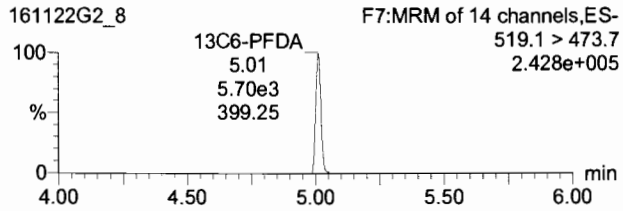

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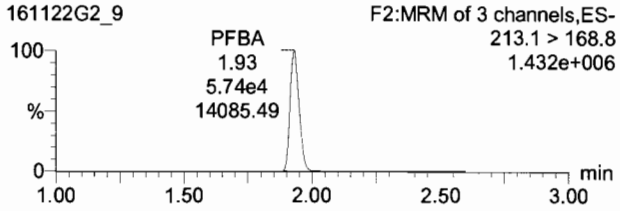

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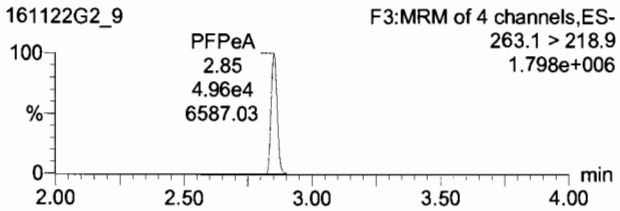

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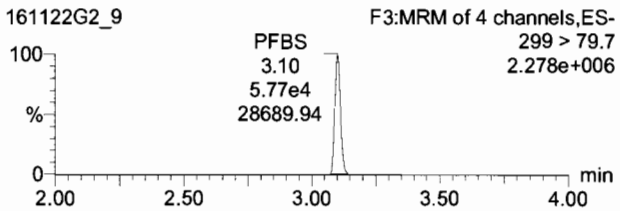

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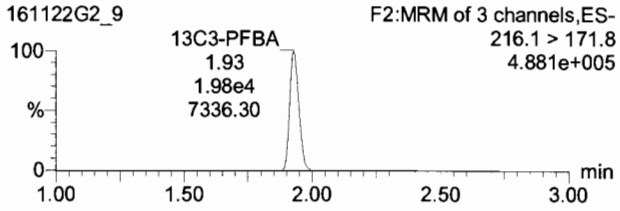

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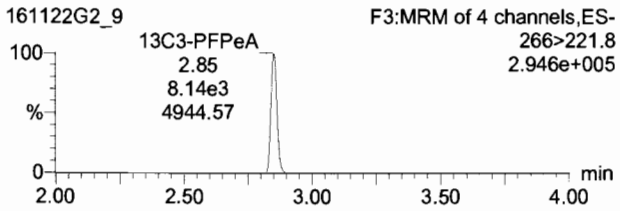

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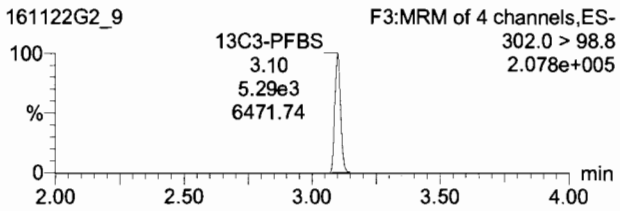

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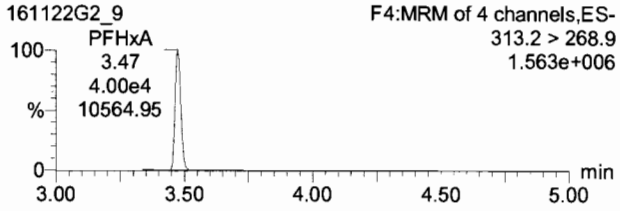

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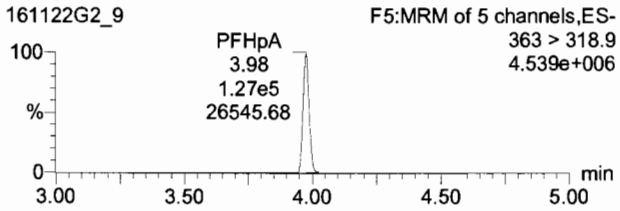

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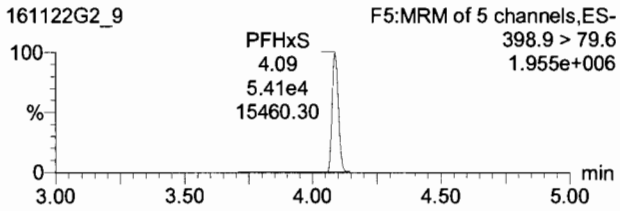

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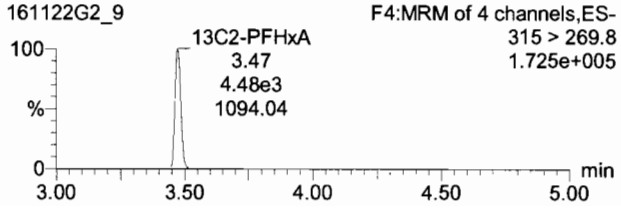

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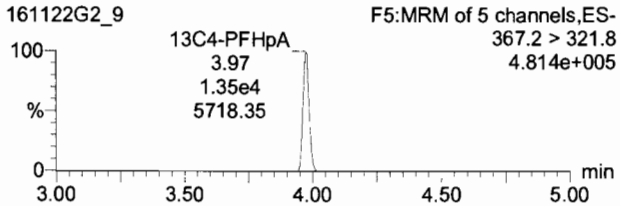

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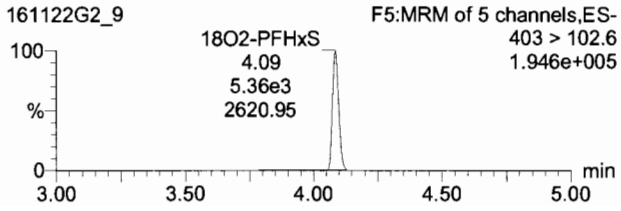

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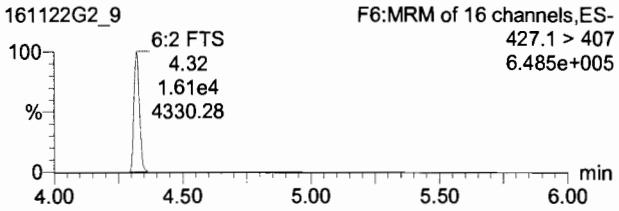
Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

6:2 FTS



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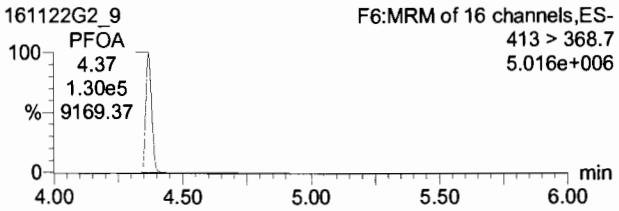

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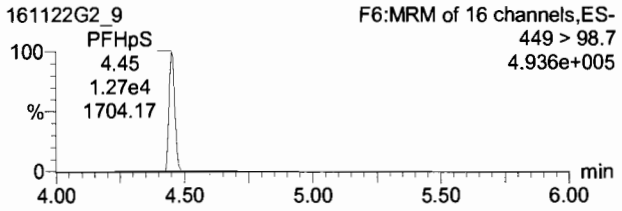

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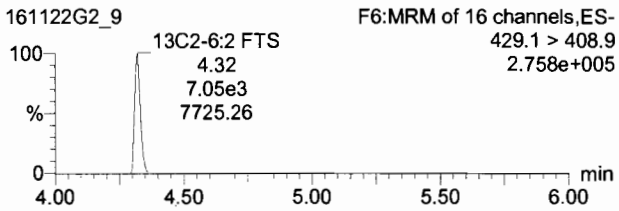

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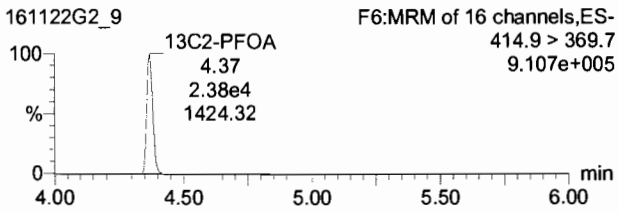

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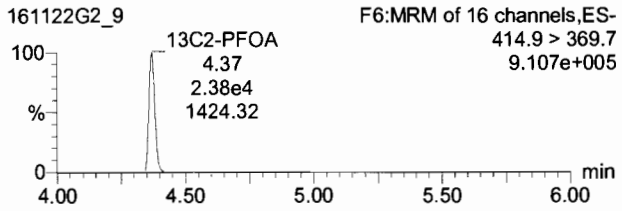

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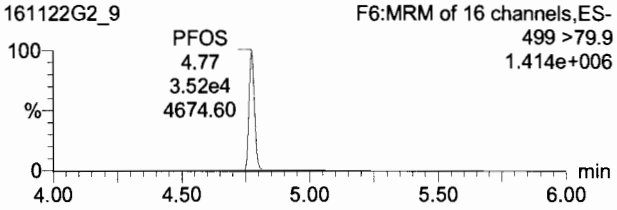
Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

PFOS



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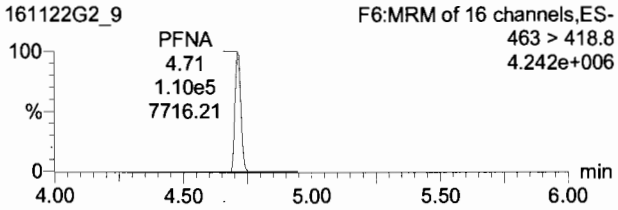

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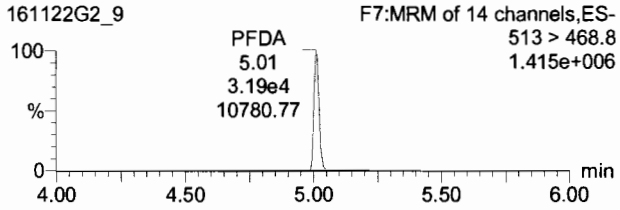

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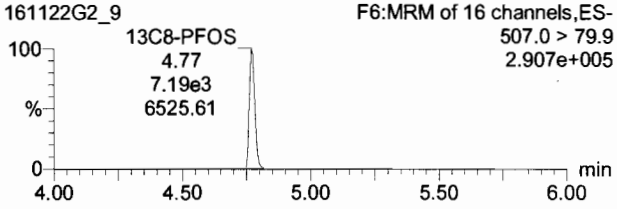

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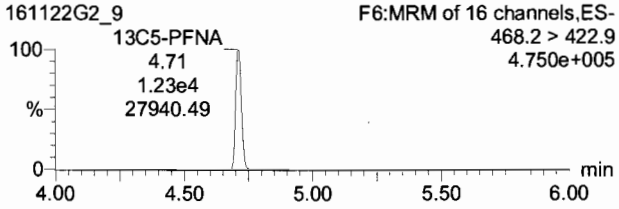

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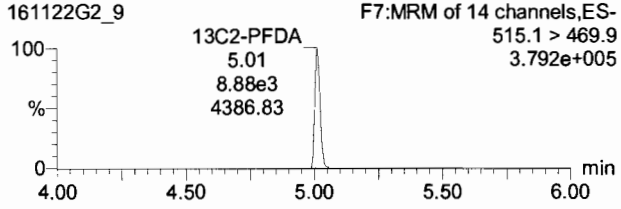

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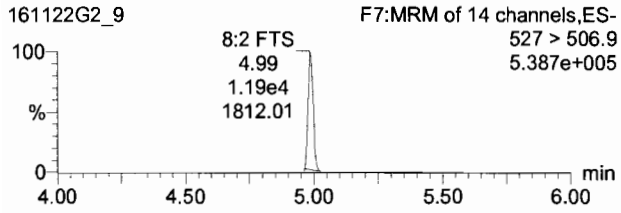
Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

8:2 FTS



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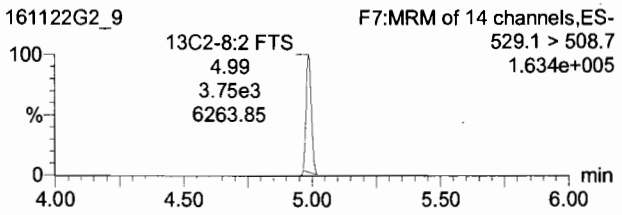
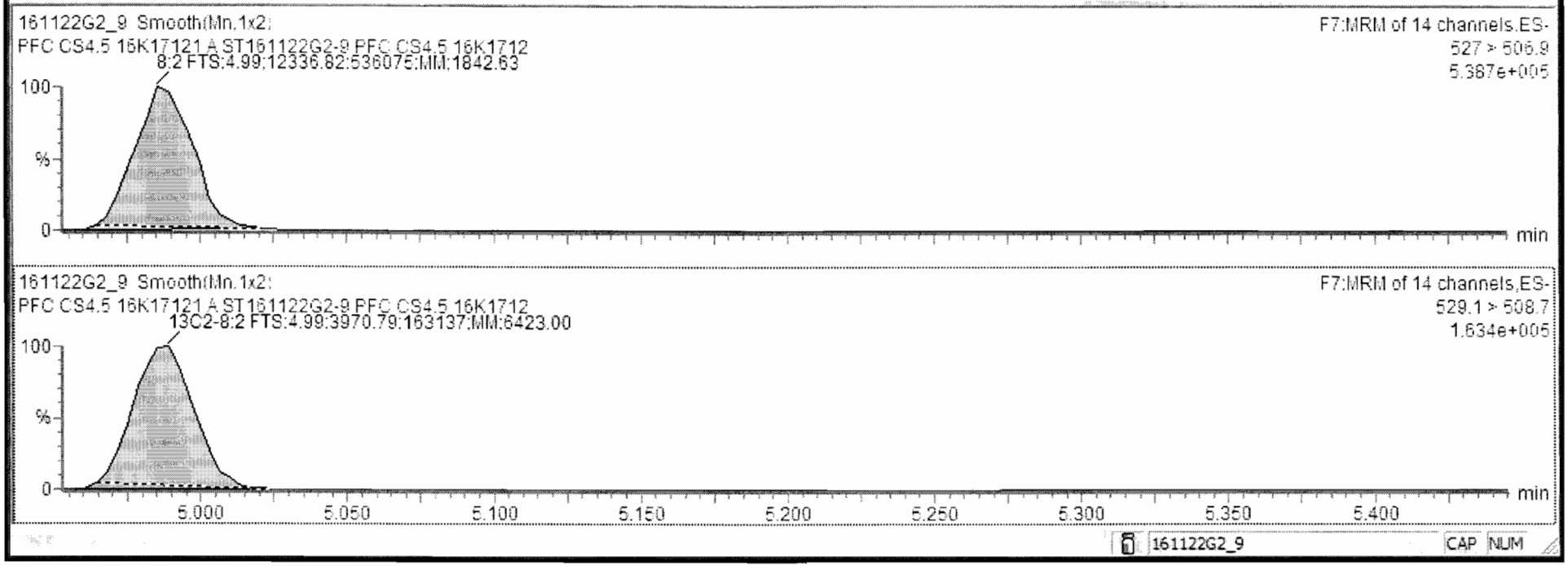


TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_9 - ST161122G2-9 PFC CS4.5 16K1712 - PFC CS4.5 16K17121 A

	Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	4.00e4		1.000	3.47	3.47	74.5	YES	99.3	0.0019930
5	PFHpA	363 > 318.9	1.27e5		1.000	3.97	3.98	75.5	YES	100.7	0.0962936
6	PFHxS	398.9 > 79.6	5.41e4		1.000	4.09	4.09	73.4	YES	97.8	0.0272887
7	6:2 FTS	427.1 > 407	1.61e4		1.000	4.32	4.32	66.1	YES	88.1	0.4772740
8	PFOA	413 > 368.7	1.30e5		1.000	4.37	4.37	75.6	YES	100.8	0.0000000
9	PFHpS	449 > 98.7	1.27e4		1.000	4.37	4.46	72.8	YES	97.0	0.3559161
10	PFOS	499 >79.9	3.52e4		1.000	4.77	4.77	73.6	YES	98.2	0.2377618
11	PFNA	463 > 418.8	1.10e5		1.000	4.71	4.71	68.0	YES	90.7	0.1259394
12	PFDA	513 > 468.8	3.19e4		1.000	5.01	5.01	75.4	NO	100.5	0.0517738
13	8:2 FTS	527 > 506.9	1.23e4		1.000	4.99	4.99	84.1	YES	112.1	0.1062973
14	13C3-PFBA	216.1 > 171.8	1.98e4	1.21	1.000	1.93	1.93	12.4	NO	99.3	0.0041429
15	13C3-PFPeA	266>221.8	8.14e3	0.448	1.000	2.84	2.85	12.4	NO	99.0	0.0056902
16	13C3-PFBS	302.0 > 98.8	5.28e3	0.302	1.000	3.10	3.10	11.9	NO	95.3	0.0045397



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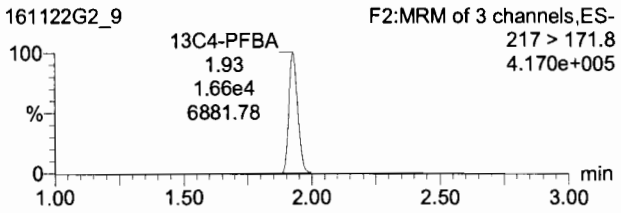
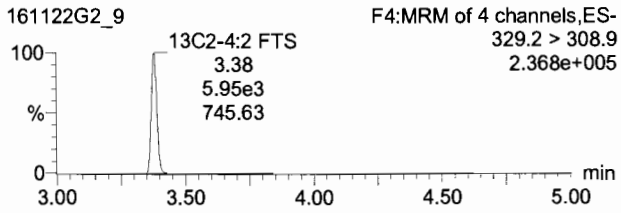
Name: 161122G2_9, Date: 22-Nov-2016, Time: 11:28:50, ID: ST161122G2-9 PFC CS4.5 16K1712, Description: PFC CS4.5 16K17121 A

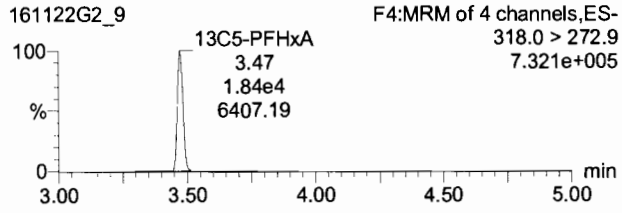
13C4-PFBA



13C2-4:2 FTS



13C5-PFHxA



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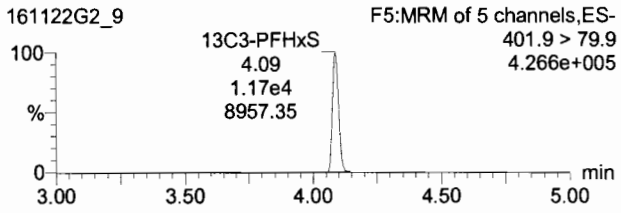

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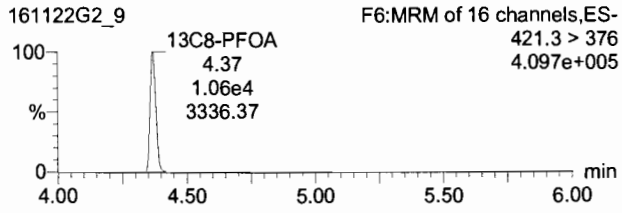

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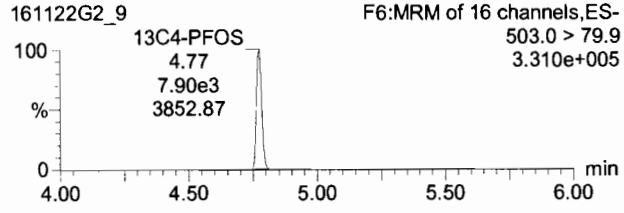

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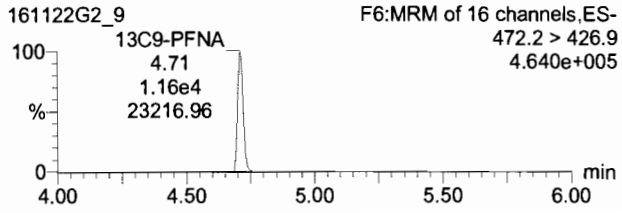

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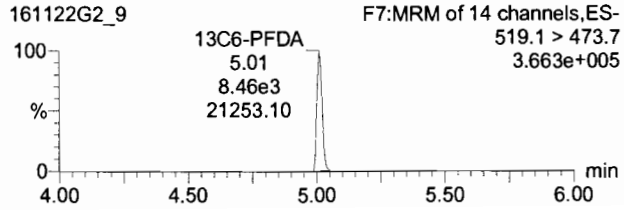

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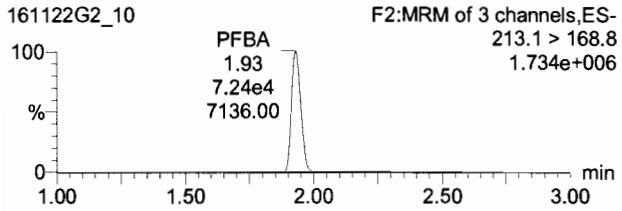

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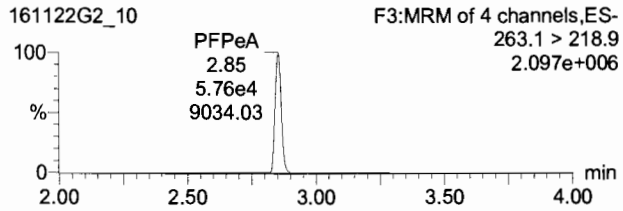

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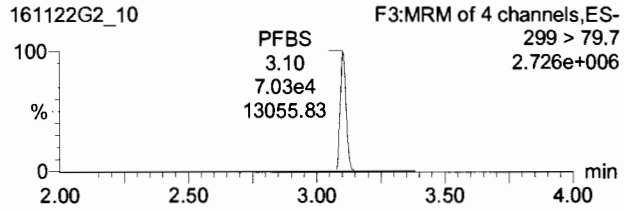

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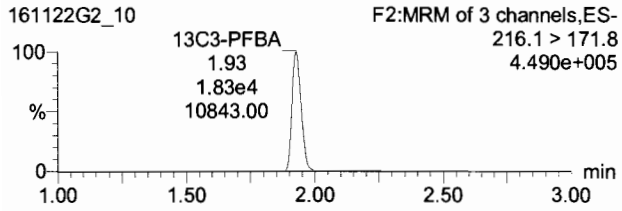

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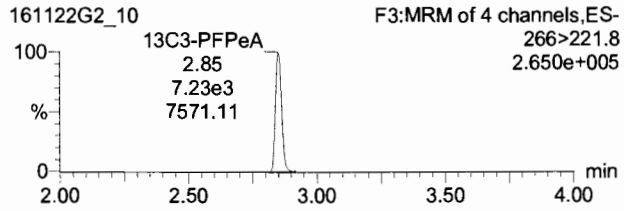

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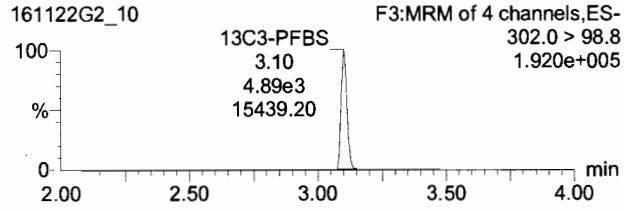

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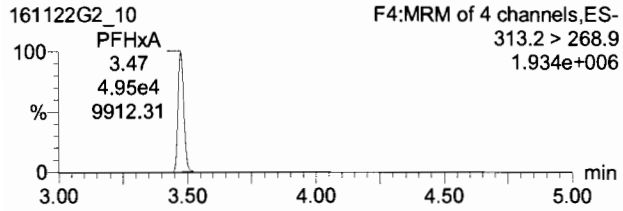

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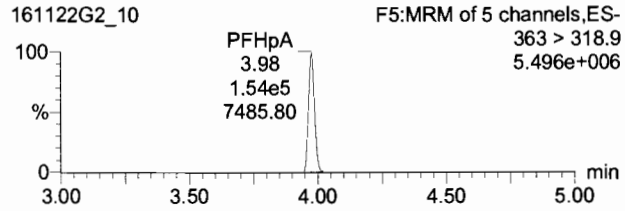

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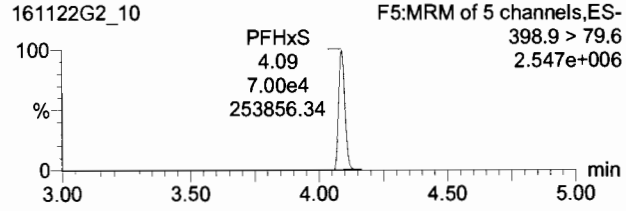

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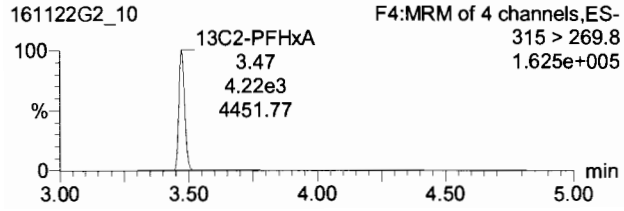

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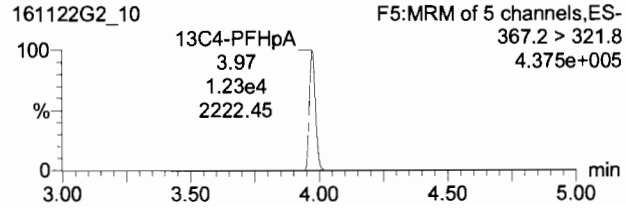

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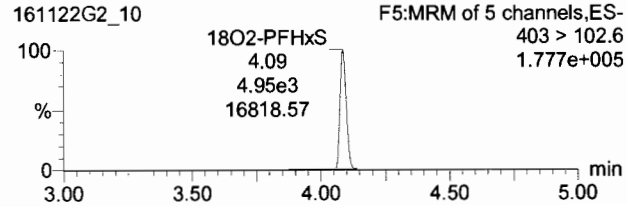

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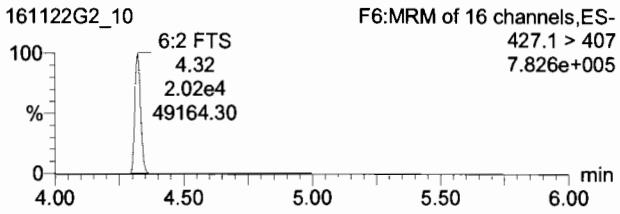
Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

6:2 FTS



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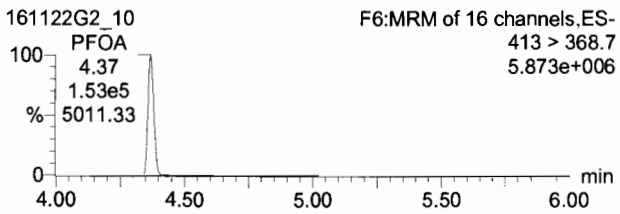

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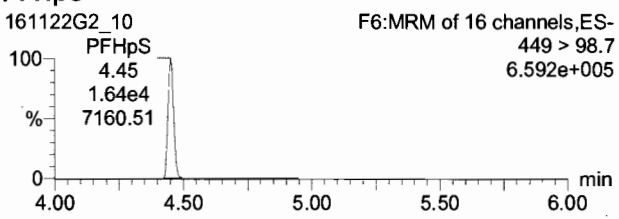

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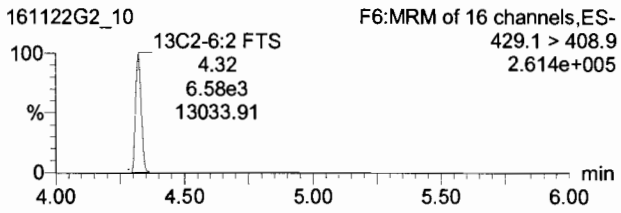

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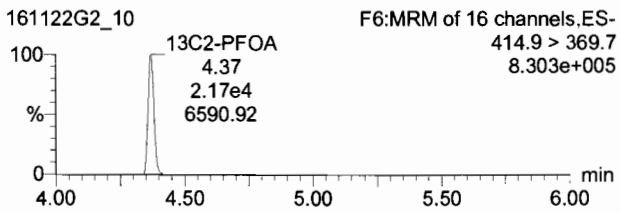

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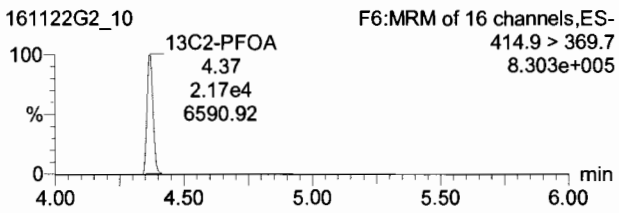

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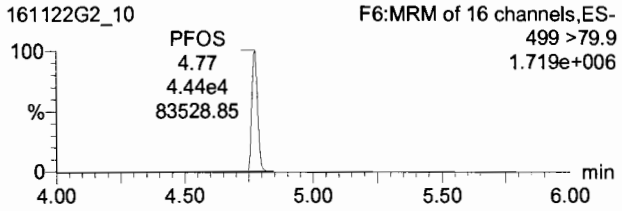
PFOS



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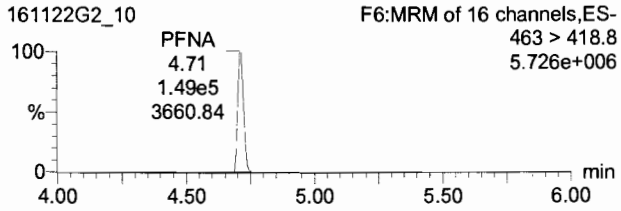
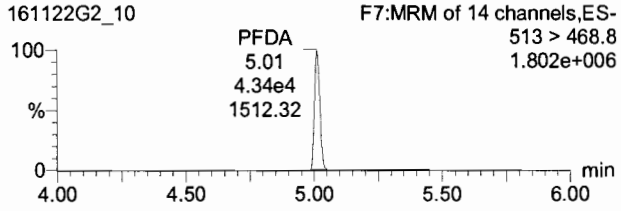
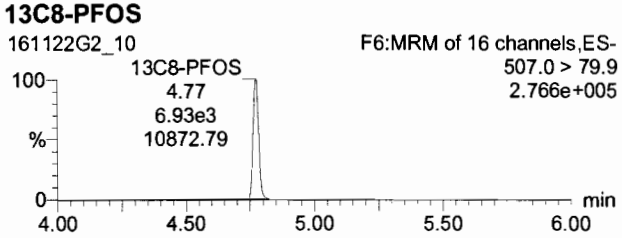


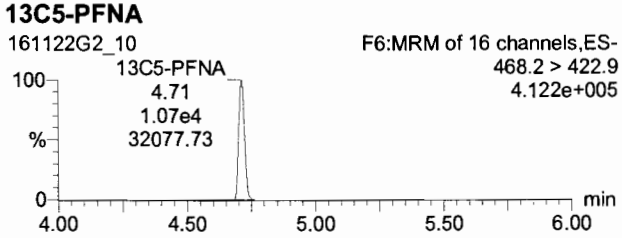
PFDA



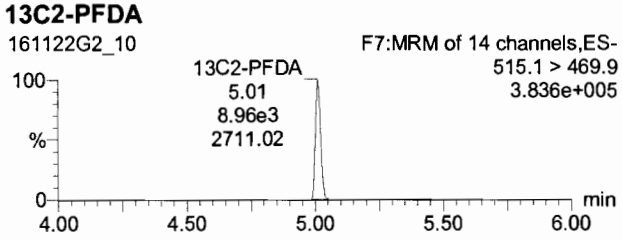
13C8-PFOS



13C5-PFNA



13C2-PFDA



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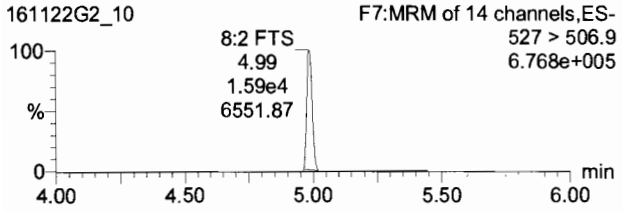
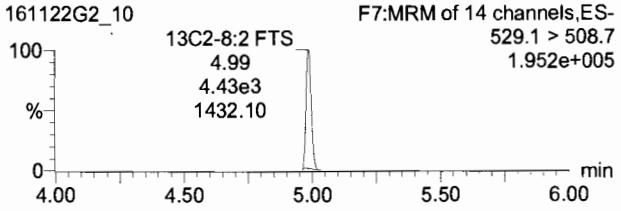
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

8:2 FTS



13C2-8:2 FTS

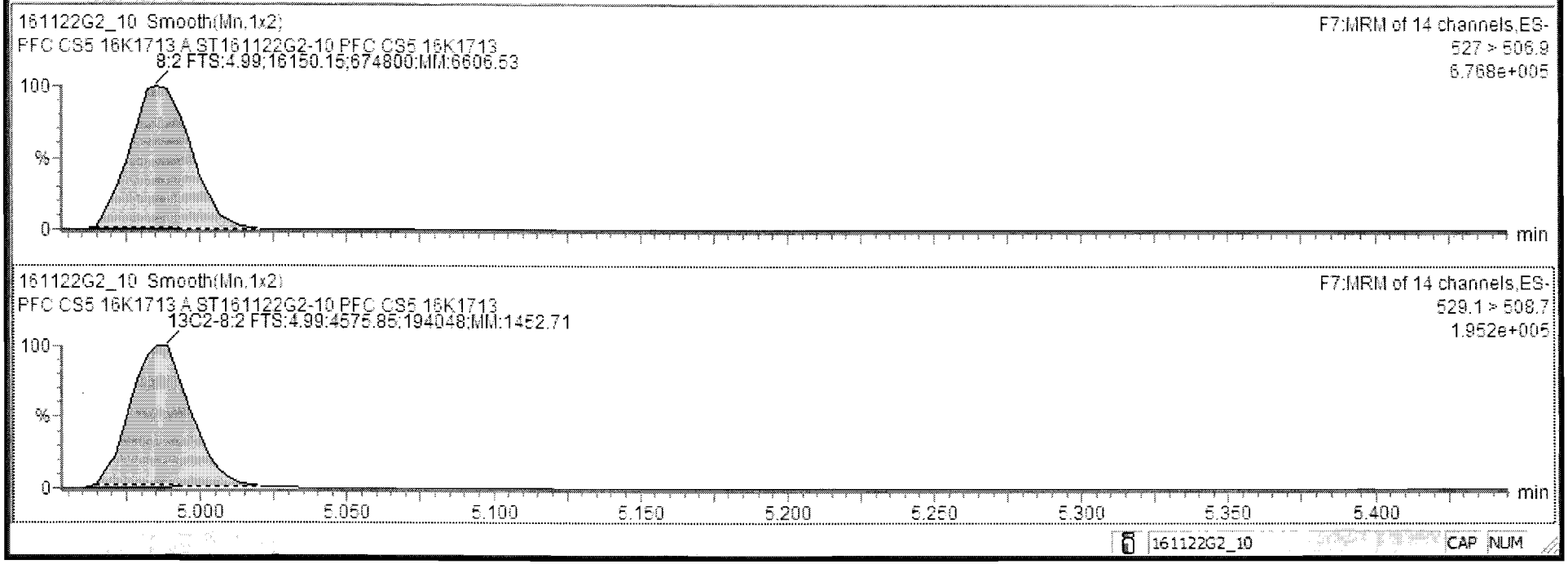


TargetLynx - 161122G2-CRV.qld * - [Chromatogram]

File Edit View Display Processing Window Help

161122G2_10 - ST161122G2-10 PFC CS5 16K1713 - PFC CS5 16K1713 A

	Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
4	PFHxA	313.2 > 268.9	4.95e4		1.000	3.47	3.47	98.0	YES	98.0	0.0091412
5	PFHpA	363 > 318.9	1.54e5		1.000	3.97	3.98	100	YES	100.4	0.1228809
6	PFHxS	398.9 > 79.8	7.00e4		1.000	4.09	4.09	103	YES	102.7	0.0164978
7	6:2 FTS	427.1 > 407	2.02e4		1.000	4.32	4.32	95.3	YES	95.3	0.4475018
8	PFOA	413 > 368.7	1.53e5		1.000	4.37	4.37	97.9	YES	97.9	0.0000000
9	PFHpS	449 > 98.7	1.64e4		1.000	4.37	4.45	103	YES	103.1	0.2855073
10	PFOS	499 >79.9	4.44e4		1.000	4.78	4.77	96.1	YES	96.1	0.2015386
11	PFNA	463 > 418.8	1.49e5		1.000	4.71	4.71	106	YES	106.3	0.1762378
12	PFDA	513 > 468.8	4.34e4		1.000	5.01	5.01	101	NO	101.5	0.1963398
13	8:2 FTS	527 > 506.9	1.62e4		1.000	4.99	4.99	96.8	YES	96.8	0.0280690
14	13C3-PFBA	216.1 > 171.8	1.83e4	1.21	1.000	1.92	1.93	11.6	NO	92.9	0.0026509
15	13C3-PFPeA	266>221.8	7.23e3	0.448	1.000	2.84	2.85	11.6	NO	92.5	0.0036027
16	13C3-PFBS	302.0 > 98.8	4.89e3	0.302	1.000	3.10	3.10	11.6	NO	92.7	0.0018920

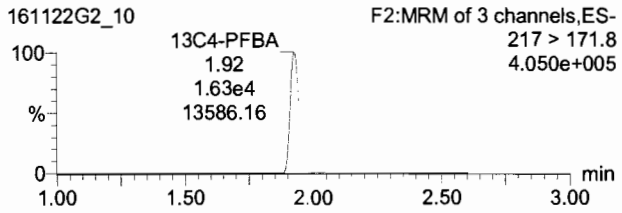


Dataset: Untitled

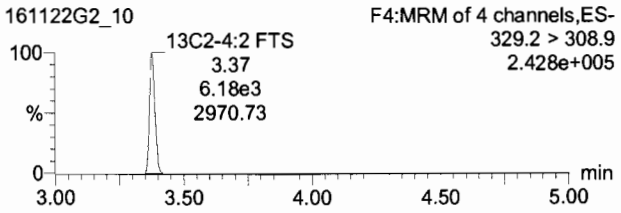
Last Altered: Tuesday, November 22, 2016 14:43:00 Pacific Standard Time
Printed: Tuesday, November 22, 2016 14:47:59 Pacific Standard Time

Name: 161122G2_10, Date: 22-Nov-2016, Time: 11:41:28, ID: ST161122G2-10 PFC CS5 16K1713, Description: PFC CS5 16K1713 A

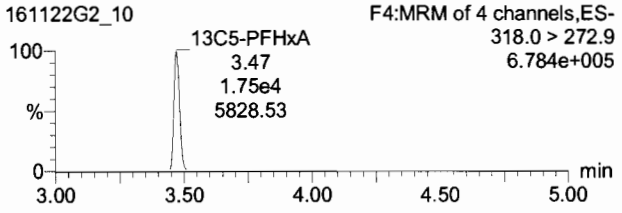
13C4-PFBA



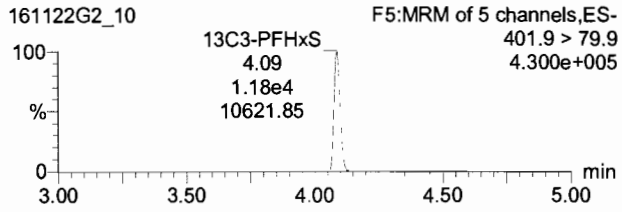
13C2-4:2 FTS



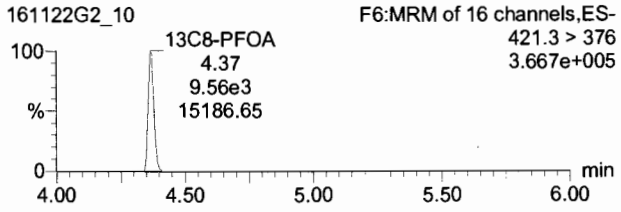
13C5-PFHxA



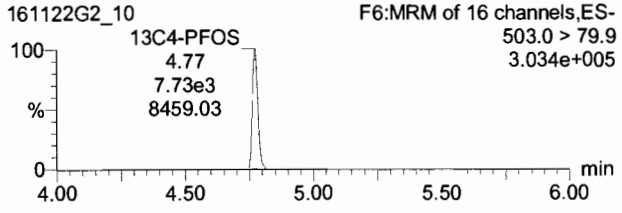
13C3-PFHxS



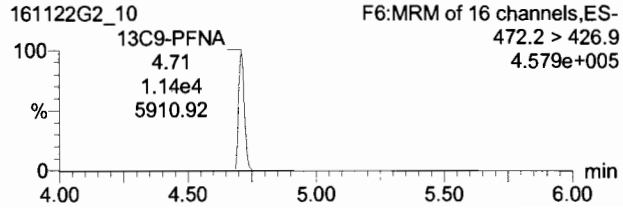
13C8-PFOA



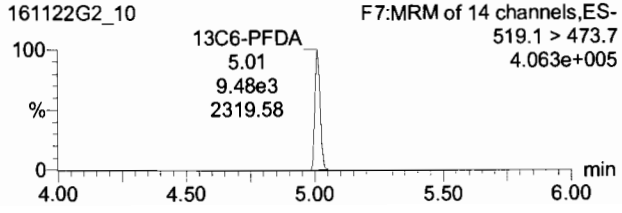
13C4-PFOS



13C9-PFNA



13C6-PFDA



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-12.qld

Last Altered: Tuesday, November 22, 2016 15:30:24 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:30:54 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_A_FULL_LINEAR.mdb 22 Nov 2016 14:48:20
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 15:25:21

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

	#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1	PFBA	213.1 > 168.8	1.99e4	1.93e4		1.000	1.94	26.3	105.2
2	2	PFPeA	263.1 > 218.9	1.36e4	8.81e3		1.000	2.85	19.4	77.4
3	3	PFBS	299 > 79.7	1.87e4	6.07e3		1.000	3.10	21.5	86.2
4	4	PFHxA	313.2 > 268.9	1.51e4	4.56e3		1.000	3.47	27.6	110.5
5	5	PFHpA	363 > 318.9	4.67e4	1.40e4		1.000	3.98	26.9	107.5
6	6	PFHxS	398.9 > 79.6	1.55e4	5.82e3		1.000	4.09	19.4	95.8 ~~77.7~~ (A)
7	7	6:2 FTS	427.1 > 407	4.23e3	5.80e3		1.000	4.32	20.8	83.4
8	8	PFOA	413 > 368.7	3.78e4	2.49e4		1.000	4.37	21.0	106.2 ~~83.9~~ (A)
9	9	PFHpS	449 > 98.7	4.68e3	2.49e4		1.000	4.45	25.7	103.0
10	10	PFOS	499 >79.9	9.75e3	7.54e3		1.000	4.77	19.6	99.4 ~~78.3~~ (A)
11	11	PFNA	463 > 418.8	4.01e4	1.20e4		1.000	4.71	25.5	102.1
12	12	PFDA	513 > 468.8	1.01e4	9.03e3		1.000	5.01	23.6	94.4
13	13	8:2 FTS	527 > 506.9	2.65e3	2.91e3		1.000	4.99	23.2	92.8
14	14	13C3-PFBA	216.1 > 171.8	1.93e4	1.41e4	1.205	1.000	1.94	14.2	113.8
15	15	13C3-PFPeA	266>221.8	8.81e3	1.61e4	0.448	1.000	2.85	15.3	122.1
16	16	13C3-PFBS	302.0 > 98.8	6.07e3	1.61e4	0.302	1.000	3.10	15.6	124.7
17	17	13C2-PFHxA	315 > 269.8	4.56e3	1.61e4	0.620	1.000	3.47	5.71	114.1
18	18	13C4-PFHpA	367.2 > 321.8	1.40e4	1.10e4	1.139	1.000	3.97	14.1	112.6
19	19	18O2-PFHxS	403 > 102.6	5.82e3	1.10e4	0.449	1.000	4.09	14.8	118.2
20	20	13C2-6:2 FTS	429.1 > 408.9	5.80e3	4.58e3	1.073	1.000	4.32	14.8	118.1
21	21	13C2-PFOA	414.9 > 369.7	2.49e4	8.18e3	2.262	1.000	4.37	16.8	134.6
22	22	13C8-PFOS	507.0 > 79.9	7.54e3	6.29e3	0.944	1.000	4.77	15.9	127.2
23	23	13C5-PFNA	468.2 > 422.9	1.20e4	9.84e3	1.082	1.000	4.71	14.1	113.0
24	24	13C2-PFDA	515.1 > 469.9	9.03e3	6.86e3	1.019	1.000	5.01	16.1	129.0
25	25	13C2-8:2 FTS	529.1 > 508.7	2.91e3	4.58e3	0.569	1.000	4.99	14.0	111.7
26	26	13C4-PFBA	217 > 171.8	1.41e4	1.41e4	1.000	1.000	1.94	12.5	100.0
27	27	13C2-4:2 FTS	329.2 > 308.9	4.58e3	4.58e3	1.000	1.000	3.38	12.5	100.0
28	28	13C5-PFHxA	318.0 > 272.9	1.61e4	1.61e4	1.000	1.000	3.47	12.5	100.0
29	29	13C3-PFHxS	401.9 > 79.9	1.10e4	1.10e4	1.000	1.000	4.09	12.5	100.0
30	30	13C8-PFOA	421.3 > 376	8.18e3	8.18e3	1.000	1.000	4.37	12.5	100.0
31	31	13C4-PFOS	503.0 > 79.9	6.29e3	6.29e3	1.000	1.000	4.77	12.5	100.0

75-125

AC
11/22/16
PW
11/23/16

(A) Percent recovery based on linear isomer only.

Dataset: U:\G1.PRO\Results\2016\161122G2\161122G2-12.qld

Last Altered: Tuesday, November 22, 2016 15:30:24 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:30:54 Pacific Standard Time

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

	#-Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 13C9-PFNA	472.2 > 426.9	9.84e3	9.84e3	1.000	1.000	4.71	12.5	100.0
33	33 13C6-PFDA	519.1 > 473.7	6.86e3	6.86e3	1.000	1.000	5.01	12.5	100.0

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Last Altered: Tuesday, November 22, 2016 15:10:09 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

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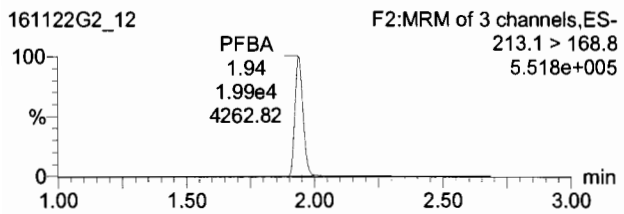
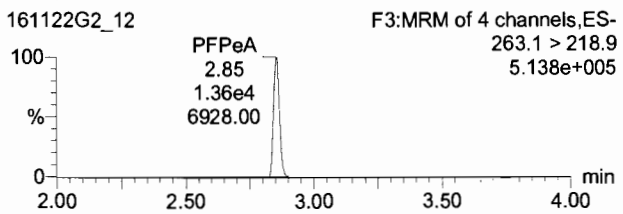
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-16_FULL_A.cdb 22 Nov 2016 14:59:27

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

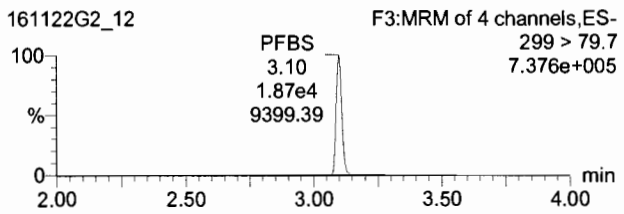
PFBA



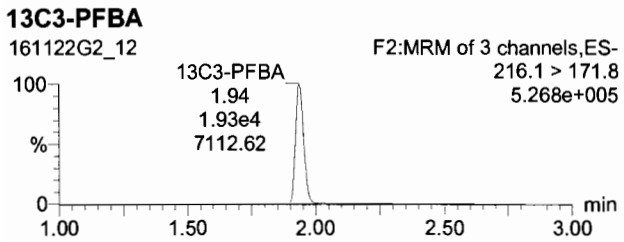
PFPeA



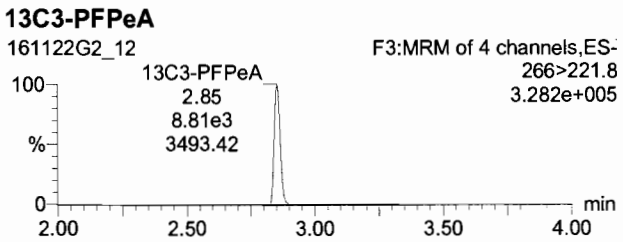
PFBS



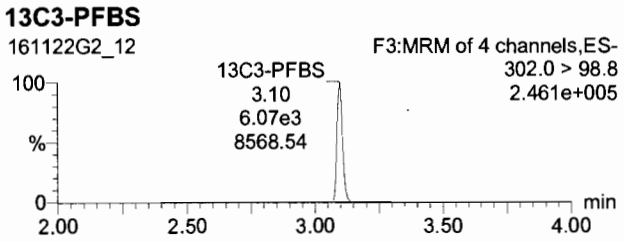
13C3-PFBA



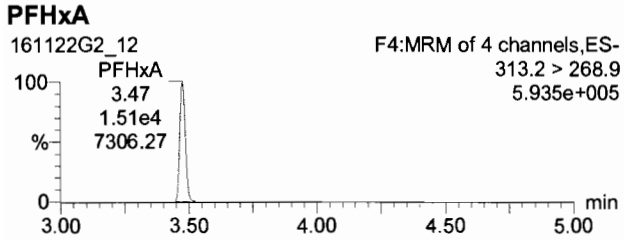
13C3-PFPeA



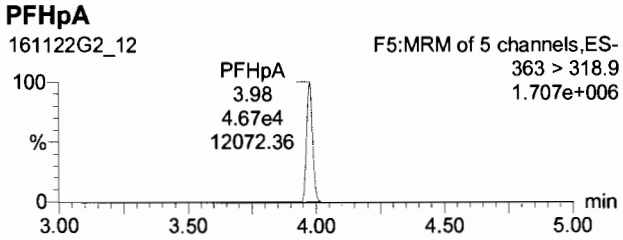
13C3-PFBS



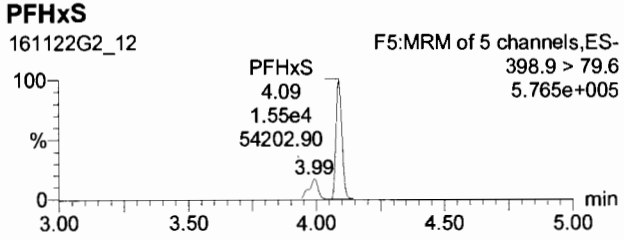
PFHxA



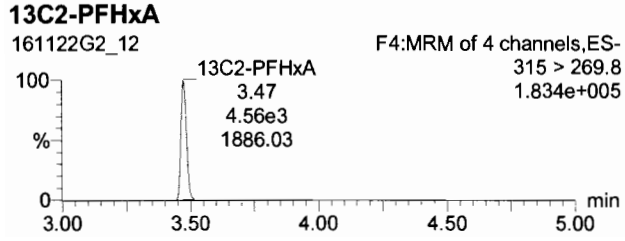
PFHpA



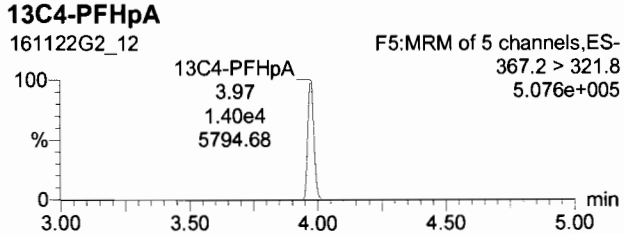
PFHxS



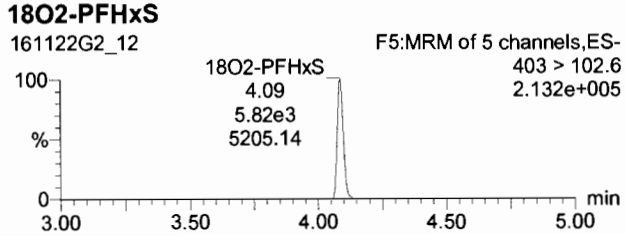
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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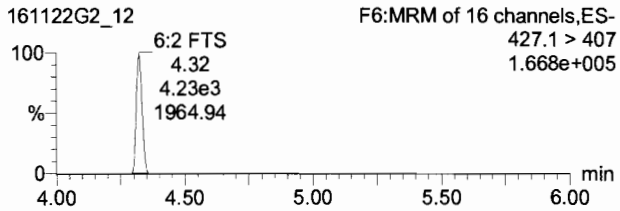
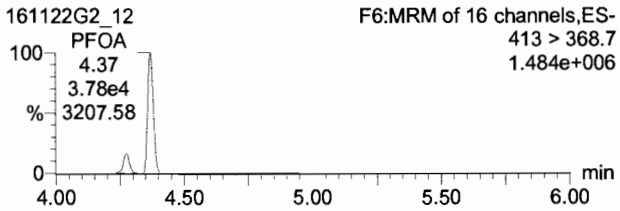
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

Name: 161122G2_12, Date: 22-Nov-2016, Time: 12:06:50, ID: SS161122G2-1 PFC SS 16K2201, Description: PFC SS 16K2201

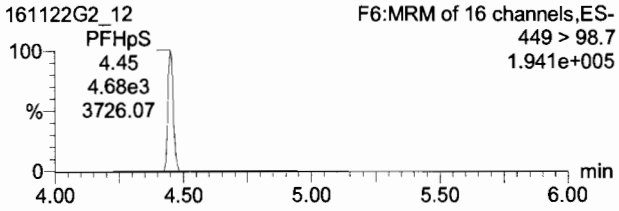
6:2 FTS



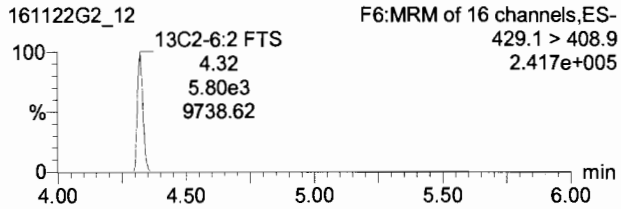
PFOA



PFHpS



13C2-6:2 FTS



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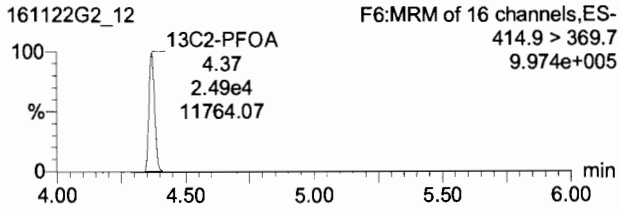
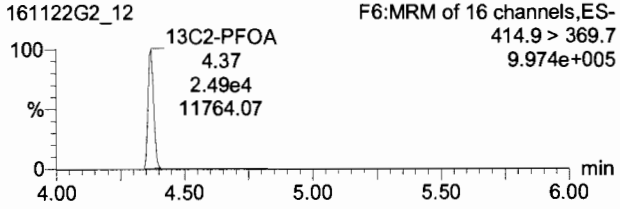


13C2-PFOA



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Last Altered: Tuesday, November 22, 2016 15:10:09 Pacific Standard Time
Printed: Tuesday, November 22, 2016 15:11:00 Pacific Standard Time

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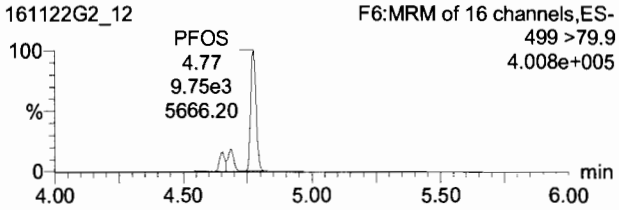
PFOS



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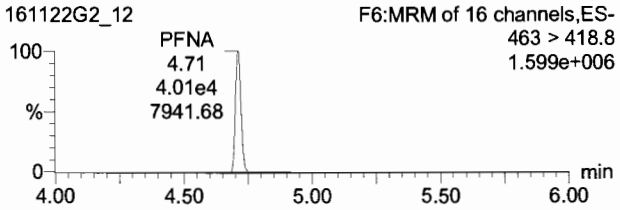

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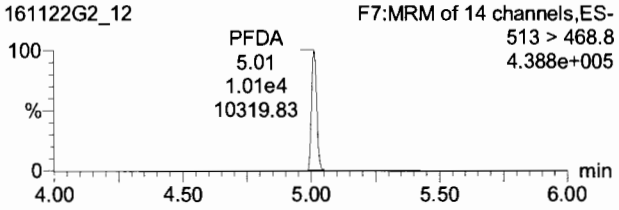
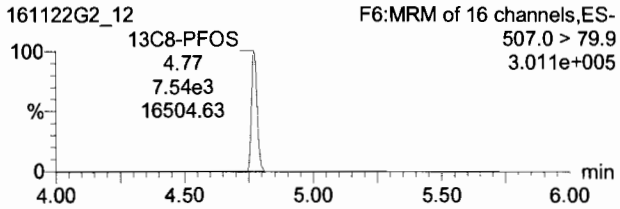


13C8-PFOS



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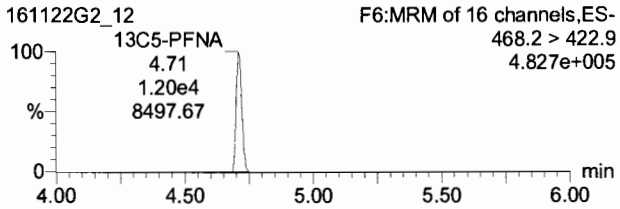

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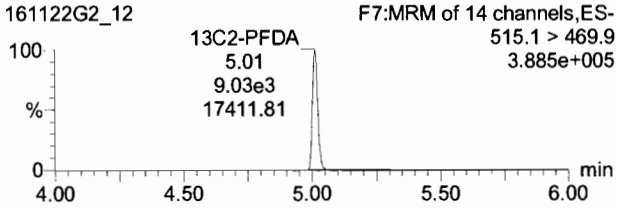

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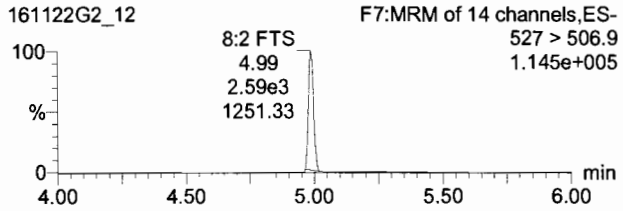
8:2 FTS



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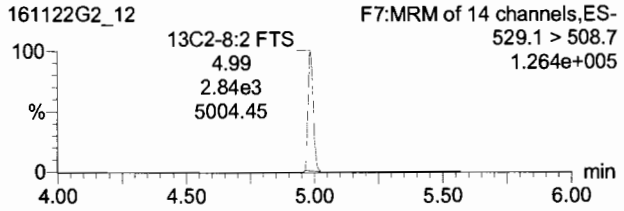

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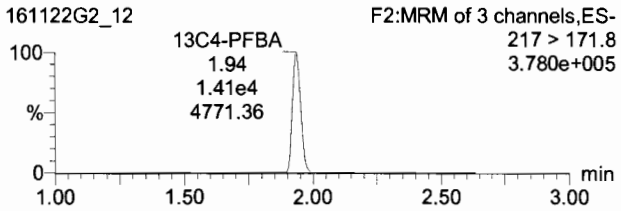

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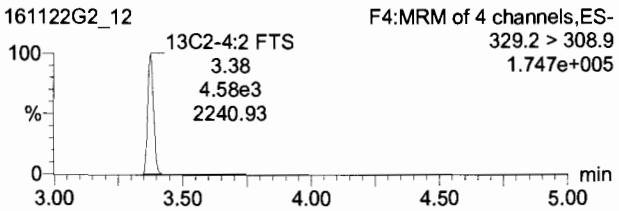

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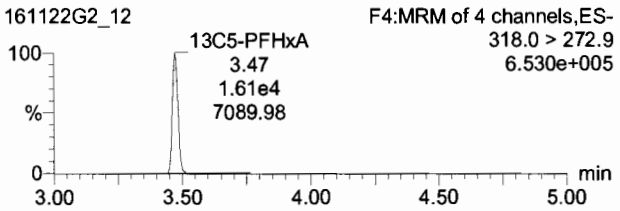

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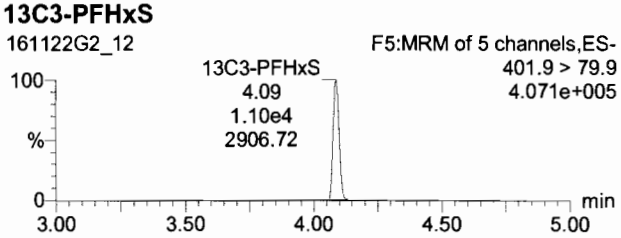

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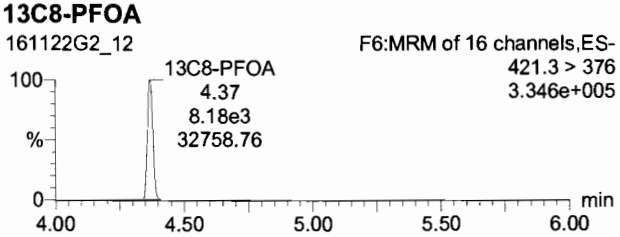

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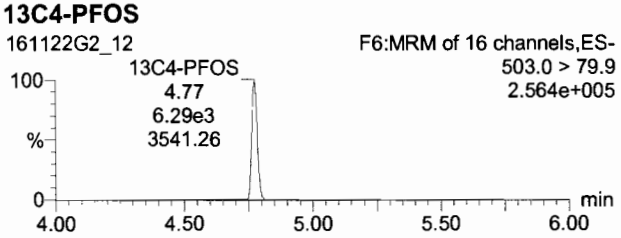

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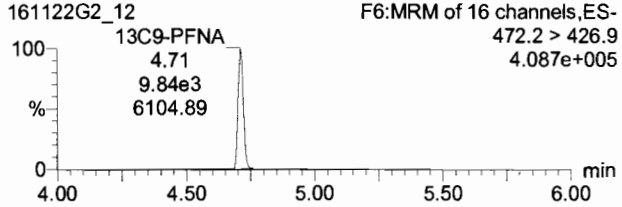

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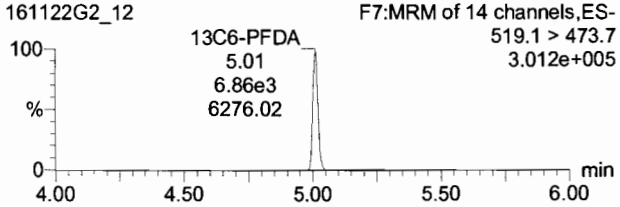

Results

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M6247016D9000	M614		OCEANA_NAS	DW11-MW9-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:30	10/27/2016			20161101	08:58:00	20161102	21:48:00	19013700-01	40	9999			Perfluoroheptanoic acid (PFHpA)	375-85-9	2200		NG/L			PR	TRG								8.0	37.1	79.4	216	19013700	SWK0005		
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M6247016D9000	M614		OCEANA_NAS	DW11-MW9S-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:35	10/27/2016			20161101	08:58:00	20161104	16:13:00	19013700-02	40	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	89.7		NG/L			PR	REC																										
M6247016D9000	M614		OCEANA_NAS	DW11-MW9S-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:35	10/27/2016			20161101	08:58:00	20161104	16:13:00	19013700-02	40	9999			Perfluorooctanoic acid (PFOA)	335-67-1	1130		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	DW11-MW9S-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:35	10/27/2016			20161101	08:58:00	20161104	16:13:00	19013700-02	40	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	814		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			Perfluoroheptanoic acid (PFHpA)	375-85-9	2930		NG/L			PR	TRG								8.0	23.5	77.5	210	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	33100		NG/L			PR	TRG								8.0	26.1	77.5	210	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			Perfluorooctanoic acid (PFOA)	335-67-1	1540		NG/L	J		PR	TRG								8.0	26.1	77.5	210	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	QL1	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	44800		NG/L			PR	TRG								8.0	31.3	58.3	210	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			Perfluorononanoic acid (PFNA)	375-95-1	99.5		NG/L			PR	TRG								8.0	31.765	1.94	210	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	99.2		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			Perfluorooctanoic acid (PFOA)	335-67-1	1130		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	DW11-MW9T-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161103	03:43:00	19013700-08	40	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	814		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	DW11-MW9U-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161102	13:25:00	19013700-04	1	9999			Perfluoroheptanoic acid (PFHpA)	375-85-9	83.0		NG/L			PR	TRG								8.0	0.235	0.794	210	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	DW11-MW9U-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161102	13:25:00	19013700-04	1	9999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	1020		NG/L			PR	TRG								8.0	0.261	0.794	210	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	DW11-MW9U-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161102	13:25:00	19013700-04	1	9999			Perfluorooctanoic acid (PFOA)	335-67-1	83.0		NG/L	J		PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	DW11-MW9U-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/25/2016 10:40	10/27/2016			20161101	08:58:00	20161102	13:25:00	19013700-04	1	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	8.10		NG/L	J		PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			Perfluoroheptanoic acid (PFHpA)	375-85-9	0.997		NG/L	J		PR	TRG								8.0	0.606	2.05	8.20	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	12.3		NG/L	J		PR	TRG								8.0	0.677	2.05	8.20	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			Perfluorooctanoic acid (PFOA)	335-67-1	2.60	J	NG/L	J		PR	TRG								8.0	0.867	2.05	8.20	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	68.7		NG/L			PR	TRG								8.0	0.606	2.05	8.20	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			Perfluorononanoic acid (PFNA)	375-95-1	2.05		NG/L	J		PR	TRG								8.0	0.830	2.05	8.20	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	85.4		NG/L			PR	REC																										
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			Perfluorooctanoic acid (PFOA)	335-67-1	17.8		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:35	10/27/2016			20161101	08:58:00	20161102	13:38:00	19013700-09	1	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	85.4		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:40	10/27/2016			20161101	08:58:00	20161102	13:50:00	19013700-10	1	9999			Perfluoroheptanoic acid (PFHpA)	375-85-9	76.9		NG/L			PR	TRG								8.0	0.583	1.97	7.89	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:40	10/27/2016			20161101	08:58:00	20161102	13:50:00	19013700-10	1	9999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	1.97		NG/L	J		PR	TRG								8.0	0.784	1.97	7.89	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:40	10/27/2016			20161101	08:58:00	20161102	13:50:00	19013700-10	1	9999			Perfluorooctanoic acid (PFOA)	335-67-1	1.97		NG/L	J		PR	TRG								8.0	0.642	1.97	7.89	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:40	10/27/2016			20161101	08:58:00	20161102	13:50:00	19013700-10	1	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	1.97		NG/L	J		PR	TRG								8.0	0.784	1.97	7.89	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:40	10/27/2016			20161101	08:58:00	20161102	13:50:00	19013700-10	1	9999			Perfluorononanoic acid (PFNA)	375-95-1	56.1		NG/L			PR	TRG								8.0	0.706	1.97	7.89	19013701	SWK0005		
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W		10/26/2016 11:40	10/27/2016			20161101	08:58:00	20161102	13:50:00	19013700-10	1	9999			1H,1H,2H,2H-perfluorooctanesulfonic acid (PFOS)	39108-34-4	55.1		NG/L			PR	REC			SLSA	150	60															
M6247016D9000	M614		OCEANA_NAS	MW-BG13-1016	NONS	SVOA	SIM_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY,

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	CH2M_Code	Analysis_Group	Analytical_Method	PRC_Code	Lab_Code	Lab_Name	Leachate_Method	Sample_Basis	Extraction_Method	Result_Type	Lab_QC_Type	Sample_Medium	QC_Level	DateTime_Collected	Date_Received	Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Run_Number	Percent_Moisture	Percent_Lipid	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	GC_Column_Type	Analysis_Result_Type	Result_Narrative	QC_Control_Limit_Code	QC_Accuracy_Upper	QC_Accuracy_Lower	Control_Limit_Date	QC_Narrative	MDL	Detection_Limit	QSM_Version	DL	LOD	LOQ	SDG	Analysis_Batch	Validator_Name	Val_Date
N6247016D9000	WE14		OCEANA_NAS	MW-BG06-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 10:35	11/01/2016			20161108	09:39:00	20161116	12:06:00	1601388-02	1	-999			13C8-PFOS	13C8-PFOS		90.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG06-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 10:35	11/01/2016			20161108	09:39:00	20161116	12:06:00	1601388-02	1	-999			13C5-PFNA	13C5-PFNA		80.5	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		3.94	NG_L	U		PR	TRG								5.0	1.76	3.94	7.85	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		0.665	NG_L	J		PR	TRG								5.0	0.580	1.97	7.85	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		3.02	NG_L	J		PR	TRG								5.0	0.929	1.97	7.85	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		1.26	NG_L	J		PR	TRG								5.0	0.638	1.97	7.85	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		1.36	NG_L	JB		PR	TRG								5.0	0.791	0.886	7.85	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		1.97	NG_L	U		PR	TRG								5.0	0.794	1.97	7.85	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			13C3-PFBS	13C3-PFBS		98.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			13C4-PFHpA	13C4-PFHpA		94.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			18O2-PFHxS	18O2-PFHxS		97.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			13C2-PFOA	13C2-PFOA		91.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			13C8-PFOS	13C8-PFOS		98.1	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:35	11/01/2016			20161108	09:39:00	20161116	12:19:00	1601388-03	1	-999			13C5-PFNA	13C5-PFNA		85.5	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.03	NG_L	U		PR	TRG								5.0	1.81	4.03	8.08	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		0.598	NG_L	J		PR	TRG								5.0	0.597	2.02	8.08	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		2.78	NG_L	J		PR	TRG								5.0	0.957	2.02	8.08	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		2.02	NG_L	J		PR	TRG								5.0	0.658	2.02	8.08	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		4.27	NG_L	JB		PR	TRG								5.0	0.815	0.907	8.08	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		2.02	NG_L	U		PR	TRG								5.0	0.819	2.02	8.08	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			13C3-PFBS	13C3-PFBS		96.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			13C4-PFHpA	13C4-PFHpA		97.9	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			18O2-PFHxS	18O2-PFHxS		108	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			13C2-PFOA	13C2-PFOA		86.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			13C8-PFOS	13C8-PFOS		85.1	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG05P-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 11:40	11/01/2016			20161108	09:39:00	20161116	12:31:00	1601388-04	1	-999			13C5-PFNA	13C5-PFNA		78.3	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		3.82	NG_L	U		PR	TRG								5.0	1.71	3.82	7.63	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		1.91	NG_L	U		PR	TRG								5.0	0.564	1.91	7.63	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		1.10	NG_L	J		PR	TRG								5.0	0.903	1.91	7.63	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		1.91	NG_L	U		PR	TRG								5.0	0.621	1.91	7.63	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		1.61	NG_L	JB		PR	TRG								5.0	0.770	0.859	7.63	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		1.91	NG_L	U		PR	TRG								5.0	0.773	1.91	7.63	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			13C3-PFBS	13C3-PFBS		89.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			13C4-PFHpA	13C4-PFHpA		93.1	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			18O2-PFHxS	18O2-PFHxS		96.5	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			13C2-PFOA	13C2-PFOA		80.9	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			13C8-PFOS	13C8-PFOS		79.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 12:35	11/01/2016			20161108	09:39:00	20161116	12:44:00	1601388-05	1	-999			13C5-PFNA	13C5-PFNA		68.8	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		3.91	NG_L	U		PR	TRG								5.0	1.75	3.91	7.83	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		1.95	NG_L	U		PR	TRG								5.0	0.578	1.95	7.83	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		1.95	NG_L	U		PR	TRG								5.0	0.927	1.95	7.83	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		1.95	NG_L	U		PR	TRG								5.0	0.637	1.95	7.83	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		1.22	NG_L	JB		PR	TRG								5.0	0.790	0.879	7.83	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		1.95	NG_L	U		PR	TRG								5.0	0.793	1.95	7.83	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			13C3-PFBS	13C3-PFBS		95.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			13C4-PFHpA	13C4-PFHpA		97.3	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			18O2-PFHxS	18O2-PFHxS		102	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			13C2-PFOA	13C2-PFOA		102	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			13C8-PFOS	13C8-PFOS		105	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-FB-102816	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/28/2016 13:00	11/01/2016			20161108	09:39:00	20161116	12:56:00	1601388-06	1	-999			13C5-PFNA	13C5-PFNA		93.7	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.07	NG_L	U		PR	TRG								5.0	1.82	4.07	8.14	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		2.03	NG_L	U		PR	TRG								5.0	0.602	2.03	8.14	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		3.81	NG_L	J		PR	TRG								5.0	0.964	2.03	8.14	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		13.5	NG_L			PR	TRG								5.0	0.663	2.03	8.14	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		20.2	NG_L	B		PR	TRG								5.0	0.822	0.915	8.14	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		1.46	NG_L	JB		PR	TRG								5.0	0.825	2.03	8.14	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			13C3-PFBS	13C3-PFBS		97.6	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			13C4-PFHpA	13C4-PFHpA		94.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			18O2-PFHxS	18O2-PFHxS		109	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			13C2-PFOA	13C2-PFOA		87.6	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			13C8-PFOS	13C8-PFOS		107	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG01-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 10:00	11/01/2016			20161108	09:39:00	20161116	13:09:00	1601388-07	1	-999			13C5-PFNA	13C5-PFNA		82.0	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.00	NG_L	U		PR	TRG								5.0	1.78	4.00	7.98	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		2.00	NG_L	U		PR	TRG								5.0	0.589	2.00	7.98	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		10.1	NG_L			PR	TRG								5.0	0.944	2.00	7.98	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		3.15	NG_L	J		PR	TRG								5.0	0.649	2.00	7.98	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		4.98	NG_L	JB		PR	TRG								5.0	0.805	0.900	7.98	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		0.922	NG_L	JB		PR	TRG								5.0	0.808	2.00	7.98	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			13C3-PFBS	13C3-PFBS		93.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			13C4-PFHpA	13C4-PFHpA		84.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			18O2-PFHxS	18O2-PFHxS		97.3	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			13C2-PFOA	13C2-PFOA		82.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			13C8-PFOS	13C8-PFOS		102	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG09-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 11:50	11/01/2016			20161108	09:39:00	20161116	13:22:00	1601388-08	1	-999			13C5-PFNA	13C5-PFNA		80.6	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.03	NG_L	J		PR	TRG								5.0	1.78	3.97	7.94	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		6.37	NG_L	J		PR	TRG								5.0	0.587	1.98	7.94	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		42.8	NG_L			PR	TRG								5.0	0.940	1.98	7.94	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		6.84	NG_L	J		PR	TRG								5.0	0.646	1.98	7.94	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		39.6	NG_L	B		PR	TRG								5.0	0.801	0.893	7.94	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		1.00	NG_L	JB		PR	TRG								5.0	0.804	1.98	7.94	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			13C3-PFBS	13C3-PFBS		99.9	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			13C4-PFHpA	13C4-PFHpA		102	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			18O2-PFHxS	18O2-PFHxS		102	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			13C2-PFOA	13C2-PFOA		94.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			13C8-PFOS	13C8-PFOS		98.4	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OC-MW04-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 13:40	11/01/2016			20161108	09:39:00	20161116	14:00:00	1601388-09	1	-999			13C5-PFNA	13C5-PFNA		79.7	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.10	NG_L	U		PR	TRG								5.0	1.83	4.10	8.20	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		2.05	NG_L	U		PR	TRG								5.0	0.606	2.05	8.20	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		19.3	NG_L			PR	TRG								5.0	0.971	2.05	8.20	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		2.05	NG_L	U		PR	TRG								5.0	0.667	2.05	8.20	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		15.6	NG_L	B		PR	TRG								5.0	0.827	0.922	8.20	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		1.66	NG_L	JB		PR	TRG								5.0	0.830	2.05	8.20	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			13C3-PFBS	13C3-PFBS		106	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			13C4-PFHpA	13C4-PFHpA		89.0	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			18O2-PFHxS	18O2-PFHxS		104	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			13C2-PFOA	13C2-PFOA		85.0	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			13C8-PFOS	13C8-PFOS		106	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	MW-BG11-1016	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	10/31/2016 14:30	11/01/2016			20161108	09:39:00	20161116	14:12:00	1601388-10	1	-999			13C5-PFNA	13C5-PFNA		83.2	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.00	NG_L	U		PR	TRG								5.0	1.79	4.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		2.00	NG_L	U		PR	TRG								5.0	0.591	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		2.00	NG_L	U		PR	TRG								5.0	0.947	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		2.00	NG_L	U		PR	TRG								5.0	0.651	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		1.48	NG_L	J		PR	TRG								5.0	0.807	0.900	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		0.933	NG_L	J		PR	TRG								5.0	0.810	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			13C3-PFBS	13C3-PFBS		87.5	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			13C4-PFHpA	13C4-PFHpA		88.4	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			18O2-PFHxS	18O2-PFHxS		86.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			13C2-PFOA	13C2-PFOA		86.5	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			13C8-PFOS	13C8-PFOS		83.3	PCT_REC			PR	IS		SLSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	14:56:00	B6K0053-BLK1	1	-999			13C5-PFNA	13C5-PFNA		74.1	PCT_REC			PR	IS		SLSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		90.0	NG_L			PR	TRG		LSA	130	60					5.0	1.79	4.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		92.7	NG_L			PR	TRG		LSA	130	70					5.0	0.591	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		86.4	NG_L			PR	TRG		LSA	130	70					5.0	0.947	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		95.4	NG_L			PR	TRG		LSA	130	70					5.0	0.651	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		90.4	NG_L	B		PR	TRG		LSA	130	70					5.0	0.807	0.900	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		96.8	NG_L	B		PR	TRG		LSA	130	50					5.0	0.810	2.00	8.00	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			13C3-PFBS	13C3-PFBS		93.7	PCT_REC			PR	IS		LSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			13C4-PFHpA	13C4-PFHpA		94.9	PCT_REC			PR	IS		LSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			18O2-PFHxS	18O2-PFHxS		96.3	PCT_REC			PR	IS		LSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			13C2-PFOA	13C2-PFOA		78.1	PCT_REC			PR	IS		LSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			13C8-PFOS	13C8-PFOS		90.8	PCT_REC			PR	IS		LSA	150	60					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161113	13:53:00	B6K0053-BS1	1	-999			13C5-PFNA	13C5-PFNA		90.0	PCT_REC			PR	IS		LSA	150	50					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		86.7	NG_L			PR	TRG		LSA	130	60					5.0	1.72	3.85	7.69	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		87.2	NG_L			PR	TRG		LSA	130	70					5.0	0.568	1.92	7.69	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		93.0	NG_L			PR	TRG		LSA	130	70					5.0	0.910	1.92	7.69	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		90.9	NG_L			PR	TRG		LSA	130	70					5.0	0.626	1.92	7.69	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		79.2	NG_L	B		PR	TRG		LSA	130	70					5.0	0.775	0.865	7.69	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		82.3	NG_L	B		PR	TRG		LSA	130	50					5.0	0.778	1.92	7.69	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			13C3-PFBS	13C3-PFBS		94.9	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			13C4-PFHpA	13C4-PFHpA		86.9	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			18O2-PFHxS	18O2-PFHxS		98.2	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			13C2-PFOA	13C2-PFOA		93.5	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			13C8-PFOS	13C8-PFOS		103	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:34:00	B6K0053-MS1	1	-999			13C5-PFNA	13C5-PFNA		86.8	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		91.0	NG_L			PR	TRG		LSA	130	60					5.0	1.79	4.00	8.01	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		91.5	NG_L			PR	TRG		LSA	130	70					5.0	0.592	2.00	8.01	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		96.9	NG_L			PR	TRG		LSA	130	70					5.0	0.948	2.00	8.01	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		97.7	NG_L			PR	TRG		LSA	130	70					5.0	0.652	2.00	8.01	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		81.1	NG_L	B		PR	TRG		LSA	130	70					5.0	0.808	0.900	8.01	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		84.3	NG_L	B		PR	TRG		LSA	130	50					5.0	0.811	2.00	8.01	1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			13C3-PFBS	13C3-PFBS		101	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			13C4-PFHpA	13C4-PFHpA		89.7	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			18O2-PFHxS	18O2-PFHxS		103	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			13C2-PFOA	13C2-PFOA		90.0	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			13C8-PFOS	13C8-PFOS		103	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	11/08/2016 09:39	11/08/2016			20161108	09:39:00	20161116	13:47:00	B6K0053-MSD1	1	-999			13C5-PFNA	13C5-PFNA		83.1	PCT_REC			PR	IS		LSA	150	150					5.0				1601388	S6K0030		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		195	NG_L			PR	TRG								5.0	1.81	4.07	8.10	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		113	NG_L			PR	TRG								5.0	0.598	2.03	8.10	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		881	NG_L			PR	TRG								5.0	0.959	2.03	8.10	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		546	NG_L			PR	TRG								5.0	0.659	2.03	8.10	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	21:13:00	1601401-01	5	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		2430	NG_L			PR	TRG								5.0	4.09	4.57	40.5	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		23.1	NG_L			PR	TRG								5.0	0.820	2.03	8.10	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			13C3-PFBS	13C3-PFBS		94.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			13C4-PFHpA	13C4-PFHpA		79.0	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			18O2-PFHxS	18O2-PFHxS		84.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			13C2-PFOA	13C2-PFOA		89.3	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	21:13:00	1601401-01	5	-999			13C8-PFOS	13C8-PFOS		74.5	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2C-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 09:50	11/03/2016			20161111	09:53:00	20161115	00:12:00	1601401-01	1	-999			13C5-PFNA	13C5-PFNA		66.2	PCT_REC			PR	IS		SLSA	150	50					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		43.4	NG_L			PR	TRG								5.0	1.81	4.03	8.08	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		493	NG_L			PR	TRG								5.0	0.597	2.02	8.08	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		290	NG_L			PR	TRG								5.0	0.956	2.02	8.08	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		413	NG_L			PR	TRG								5.0	0.657	2.02	8.08	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		263	NG_L			PR	TRG								5.0	0.815	0.907	8.08	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		93.6	NG_L			PR	TRG								5.0	0.818	2.02	8.08	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			13C3-PFBS	13C3-PFBS		101	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			13C4-PFHpA	13C4-PFHpA		83.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			18O2-PFHxS	18O2-PFHxS		89.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			13C2-PFOA	13C2-PFOA		84.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			13C8-PFOS	13C8-PFOS		75.3	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2E-MW19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 11:10	11/03/2016			20161111	09:53:00	20161115	00:24:00	1601401-02	1	-999			13C5-PFNA	13C5-PFNA		72.5	PCT_REC			PR	IS		SLSA	150	50					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		51.7	NG_L			PR	TRG								5.0	1.80	4.00	8.03	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		275	NG_L			PR	TRG								5.0	0.593	2.00	8.03	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		473	NG_L			PR	TRG								5.0	0.950	2.00	8.03	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		222	NG_L			PR	TRG								5.0	0.653	2.00	8.03	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		63.1	NG_L			PR	TRG								5.0	0.810	0.900	8.03	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		6.59	NG_L	J		PR	TRG								5.0	0.813	2.00	8.03	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			13C3-PFBS	13C3-PFBS		101	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			13C4-PFHpA	13C4-PFHpA		81.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			18O2-PFHxS	18O2-PFHxS		85.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			13C2-PFOA	13C2-PFOA		84.3	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			13C8-PFOS	13C8-PFOS		90.6	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OW2B-MW41-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 12:05	11/03/2016			20161111	09:53:00	20161115	00:36:00	1601401-03	1	-999			13C5-PFNA	13C5-PFNA		71.7	PCT_REC			PR	IS		SLSA	150	50					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.03	NG_L	U		PR	TRG								5.0	1.80	4.03	8.06	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		1.85	NG_L	J		PR	TRG								5.0	0.596	2.02	8.06	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		16.9	NG_L			PR	TRG								5.0	0.955	2.02	8.06	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		5.75	NG_L	J		PR	TRG								5.0	0.656	2.02	8.06	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		7.17	NG_L	J		PR	TRG								5.0	0.813	0.907	8.06	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		2.02	NG_L	U		PR	TRG								5.0	0.816	2.02	8.06	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			13C3-PFBS	13C3-PFBS		102	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			13C4-PFHpA	13C4-PFHpA		84.5	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			18O2-PFHxS	18O2-PFHxS		85.0	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			13C2-PFOA	13C2-PFOA		77.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			13C8-PFOS	13C8-PFOS		70.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	203MW-19-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 13:10	11/03/2016			20161111	09:53:00	20161115	00:48:00	1601401-04	1	-999			13C5-PFNA	13C5-PFNA		66.1	PCT_REC			PR	IS		SLSA	150	50					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		4.27	NG_L	J		PR	TRG								5.0	1.84	4.13	8.24	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		6.29	NG_L	J		PR	TRG								5.0	0.609	2.07	8.24	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		212	NG_L			PR	TRG								5.0	0.976	2.07	8.24	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		12.6	NG_L			PR	TRG								5.0	0.671	2.07	8.24	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	21:25:00	1601401-05	10	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		4020	NG_L			PR	TRG								5.0	8.31	9.30	82.4	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		6.08	NG_L	J		PR	TRG								5.0	0.835	2.07	8.24	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			13C3-PFBS	13C3-PFBS		98.1	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			13C4-PFHpA	13C4-PFHpA		83.5	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			18O2-PFHxS	18O2-PFHxS		84.9	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			13C2-PFOA	13C2-PFOA		88.7	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	21:25:00	1601401-05	10	-999			13C8-PFOS	13C8-PFOS		82.8	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	JTC-MW-B-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 14:20	11/03/2016			20161111	09:53:00	20161115	01:01:00	1601401-05	1	-999			13C5-PFNA	13C5-PFNA		74.6	PCT_REC			PR	IS		SLSA	150	50					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5		6.89	NG_L	J		PR	TRG								5.0	1.77	3.97	7.91	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			Perfluoroheptanoic acid (PFHpA)	375-85-9		9.62	NG_L			PR	TRG								5.0	0.585	1.98	7.91	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4		46.7	NG_L			PR	TRG								5.0	0.937	1.98	7.91	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1		15.6	NG_L			PR	TRG								5.0	0.644	1.98	7.91	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1		33.4	NG_L			PR	TRG								5.0	0.798	0.893	7.91	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			Perfluorononanoic acid (PFNA)	375-95-1		1.98	NG_L	U		PR	TRG								5.0	0.801	1.98	7.91	1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			13C3-PFBS	13C3-PFBS		100	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		
N6247016D9000	WE14		OCEANA_NAS	OC-MW03-1116	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	REG	W	4	11/01/2016 10:00	11/03/2016			20161111	09:53:00	20161115	01:13:00	1601401-06	1	-999			13C4-PFHpA	13C4-PFHpA		81.2	PCT_REC			PR	IS		SLSA	150	60					5.0				1601401	S6K0047		

Contract_ID	EQ_CTO_Number	Phase	Installation_ID	Sample_Name	CHEM_Code	Analysis_Group	Analytical_Method	ERC_Code	Lab_Code	Lab_Name	Leachate_Method	Sample_Basis	Extraction_Method	Result_Type	Lab_QC_Type	Sample_Medium	QC_Level	Date/Time_Collected	Date_Received	Leachate_Date	Leachate_Time	Extraction_Date	Extraction_Time	Analysis_Date	Analysis_Time	Lab_Sample_ID	Dilution	Row_Number	Percent_Moisture	Percent_Lipid	Chem_Name	Analyte_ID	Analyte_Value	Original_Analyte_Value	Result_Units	Lab_Qualifier	Validator_Qualifier	QC_Column_Type	Analysis_Result_Type	Result_Narrative	QC_Control_Limit_Code	QC_Accuracy_Upper	QC_Accuracy_Lower	Control_Limit_Date	QC_Narrative	MDL	Detection_Limit	EDR_Version	DL	LOD	LOQ	SSD	Analytes_Batch	Validator_Name	Val_Date
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 10:00	11/03/2016			20161115	09:53:00	20161115	21:13:00	16014401-06	1	999			13C2-PFOA	13C2-PFOA	93.7		PCT_REC			IS	SLSA		150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 10:00	11/03/2016			20161115	09:53:00	20161115	21:13:00	16014401-06	1	999			13C8-PFOS	13C8-PFOS	79.7		PCT_REC			IS	SLSA		150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 10:00	11/03/2016			20161115	09:53:00	20161115	21:13:00	16014401-06	1	999			13C8-PFNA	13C8-PFNA	79.0		PCT_REC			IS	SLSA		150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	4.13		NG	L		PR	TRG									1.87	4.17	8.35	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			Perfluoroheptanoic acid (PFHpA)	375-85-9	2.75		NG	L		PR	TRG									0.417	2.08	8.35	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	19.4		NG	L		PR	TRG									0.949	2.08	8.35	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			Perfluorooctanoic acid (PFOA)	335-67-1	8.92		NG	L		PR	TRG									0.885	2.08	8.35	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	9.16		NG	L		PR	TRG									0.843	0.938	8.35	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			Perfluorononanoic acid (PFNA)	375-95-1	1.78		NG	L		PR	TRG									0.546	2.08	8.35	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			13C4-PFBS	13C4-PFBS	94.2		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			13C4-PFHpA	13C4-PFHpA	91.4		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			13C5-PFHxA	13C5-PFHxA	91.4		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			13C8-PFOA	13C8-PFOA	92.8		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			13C8-PFOS	13C8-PFOS	82.3		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 11:15	11/03/2016			20161115	09:53:00	20161115	21:25:00	16014401-07	1	999			13C9-PFNA	13C9-PFNA	97.4		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	4.03		NG	L		PR	TRG									1.80	4.03	8.06	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			Perfluoroheptanoic acid (PFHpA)	375-85-9	2.02		NG	L	U	PR	TRG									0.556	2.02	8.06	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	2.02		NG	L	U	PR	TRG									0.954	2.02	8.06	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			Perfluorooctanoic acid (PFOA)	335-67-1	0.814		NG	L		PR	TRG									0.696	2.02	8.06	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	1.07		NG	L		PR	TRG									0.843	0.938	8.06	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			Perfluorononanoic acid (PFNA)	375-95-1	0.927		NG	L	U	PR	TRG									0.542	2.02	8.06	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			13C4-PFBS	13C4-PFBS	102		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			13C4-PFHpA	13C4-PFHpA	73.0		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			13C5-PFHxA	13C5-PFHxA	77.7		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			13C8-PFOA	13C8-PFOA	83.8		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-MW02-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/01/2016 12:30	11/03/2016			20161115	09:53:00	20161115	21:37:00	16014401-08	1	999			13C8-PFOS	13C8-PFOS	86.5		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	4950		NG	L		PR	TRG									72.1	161	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluoroheptanoic acid (PFHpA)	375-85-9	13900		NG	L		PR	TRG									23.5	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	32400		NG	L		PR	TRG									38.1	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorooctanoic acid (PFOA)	335-67-1	41000		NG	L		PR	TRG									32.6	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	11000		NG	L		PR	TRG									33.5	75.3	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorononanoic acid (PFNA)	375-95-1	1530		NG	L		PR	TRG									32.6	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C4-PFBS	13C4-PFBS	109		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C4-PFHpA	13C4-PFHpA	103		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C5-PFHxA	13C5-PFHxA	106		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C8-PFOA	13C8-PFOA	148		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C8-PFOS	13C8-PFOS	89.4		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C9-PFNA	13C9-PFNA	76.7		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	4260		NG	L		PR	TRG									72.4	161	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluoroheptanoic acid (PFHpA)	375-85-9	1240		NG	L		PR	TRG									23.5	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	2900		NG	L		PR	TRG									32.6	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorooctanoic acid (PFOA)	335-67-1	1650		NG	L		PR	TRG									33.1	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	118		NG	L		PR	TRG									32.6	75.3	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			Perfluorononanoic acid (PFNA)	375-95-1	1650		NG	L		PR	TRG									33.1	80.6	322	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C4-PFBS	13C4-PFBS	114		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C4-PFHpA	13C4-PFHpA	114		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C5-PFHxA	13C5-PFHxA	96.5		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C8-PFOA	13C8-PFOA	118		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C8-PFOS	13C8-PFOS	114		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DW26-MW01-1116	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	DL1	REG	W	4	11/01/2016 13:40	11/03/2016			20161115	09:53:00	20161115	21:49:00	16014401-09	40	999			13C9-PFNA	13C9-PFNA	95.5		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	4.00		NG	L		PR	TRG									1.78	4.00	8.01	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			Perfluoroheptanoic acid (PFHpA)	375-85-9	2.00		NG	L	U	PR	TRG									0.542	2.00	8.01	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			Perfluorohexanesulfonic acid (PFHxS)	355-46-4	2.00		NG	L	U	PR	TRG									0.945	2.00	8.01	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			Perfluorooctanoic acid (PFOA)	335-67-1	0.693		NG	L		PR	TRG									0.652	2.00	8.01	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	0.905		NG	L		PR	TRG									0.811	2.00	8.01	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			Perfluorononanoic acid (PFNA)	375-95-1	2.00		NG	L	U	PR	TRG									0.611	2.00	8.01	160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			13C4-PFBS	13C4-PFBS	96.9		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS	SVOA	SIM	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	3000	REG	W	4	11/02/2016 12:52	11/03/2016			20161115	09:53:00	20161115	22:01:00	16014401-11	1	999			13C4-PFHpA	13C4-PFHpA	78.7		PCT_REC			IS	SLSA	150	60									0.0			160140/1	SWK0047		
M6247401N09000	M614		OCEANA_NAS	DC-FB110816	NONS

Data Validation Summary

Oceana CTO-WE44, NALF Fentress

TO: Tiffany Hill/CVO

Anita Dodson/VBO

FROM: Tiffany McGlynn/GNV

CC: Herb Kelly/GNV

DATE: December 9, 2016

Introduction

The following data validation report discusses the data validation process and findings for Vista Analytical in the Sample Delivery Groups (SDGs) listed in the table below.

Samples were analyzed using the following analytical methods:

- 537 MOD Perfluorinated Hydrocarbons

The samples included in these SDGs are listed in the table below.

SDG	Sample Name	Matrix
1601370	OW11-MW9-1016	Water
1601370	OW11-MW9P-1016	Water
1601370	OW11-MW8-1016	Water
1601370	OW11-MW1-1016	Water
1601370	OW11-MW7-1016	Water
1601370	OW11-MW5-1016	Water
1601370	OW11-MW6-1016	Water
1601370	OW11-MW4-1016	Water
1601370	MW-BG13-1016	Water
1601370	MW-BG13P-1016	Water
1601370	MW-BG12-1016	Water
1601388	MW-BG07-1016	Water

SDG	Sample Name	Matrix
1601388	MW-BG06-1016	Water
1601388	MW-BG05-1016	Water
1601388	MW-BG05P-1016	Water
1601388	MW-BG04-1016	Water
1601388	OC-FB-102816	Water
1601388	MW-BG01-1016	Water
1601388	MW-BG09-1016	Water
1601388	OC-MW04-1016	Water
1601388	MW-BG11-1016	Water
1601401	203MW-19-1116	Water
1601401	JTC-MW-B-1116	Water
1601401	MW-BG10-1116	Water
1601401	OW2C-MW19-1116	Water
1601401	OW2E-MW19-1116	Water
1601401	OW2B-MW41-1116	Water
1601401	OC-EB-110216	Water
1601401	OC-MW03-1116	Water
1601401	OC-MW01-1116	Water
1601401	OC-FB-110216	Water
1601401	OC-MW02-1116	Water
1601401	OW26-MW1-1116	Water
1601401	OW26-MW1P 1116	Water
1601420	FTWG-MW-02-1116	Water
1601420	OC-EB110816	Water
1601420	OC-FB110816	Water
1601437	OW11-MW1-1016	Water
1601437	OW11-MW4-1016	Water
1601437	OW11-MW5-1016	Water
1601437	OW11-MW6-1016	Water
1601437	OW11-MW7-1016	Water
1601437	OW11-MW9-1016	Water
1601437	OW11-MW9P-1016	Water

Data Evaluation

Data was evaluated in accordance with the analytical methods and with the criteria found in the following guidance documents: Sampling and Analysis Plan Basewide Site Inspection for Perfluorinated Compounds Naval Air Station Oceana Virginia Beach, Virginia CTO-WE44 (October 2016) and National Functional Guidelines for Superfund Organic Methods Data Review (September 2016), as applicable. The samples were evaluated based on the following criteria:

- Data Completeness
- Technical Holding Times
- Tuning Instrument
- Initial/Continuing Calibrations
- Blanks
- Internal Standards
- Laboratory Control Samples
- Isotope Dilution Analyte
- Field Duplicates
- Identification/Quantitation
- Reporting Limits

Overall Evaluation of Data/Potential Usability Issues

Specific details regarding qualification of the data are addressed in the sections below. If an issue is not addressed there were no actions required based on unmet quality criteria. When more than one qualifier is associated with a compound/analyte, the validator has chosen the qualifier that best indicates possible bias in the results and qualified these data accordingly.

Data Completeness

The SDG was received complete and intact.

Technical Holding Times

According to the chain of custody records, sampling was performed on 10/25/16 through 11/8/16. Samples were received at the laboratory 10/27/16 through 11/9/16. All sample preparation and analyses were originally performed within holding time requirements with the exception of selected samples in SDG 1601437, which were re-extracted 15 days out of holding time. These samples were reanalyzed for Perfluorooctane Sulfonate (PFOS) only due to the high concentration detected in the original sample analysis. Affected data are summarized in **Attachment 1**.

Blanks

Target compounds were detected in the method blanks, equipment blanks, and field blanks as listed in the table below. Affected data are summarized in **Attachment 1**.

Blank ID	Compound	Conc.	Units
B6K0053-BLK1	Perfluorooctane Sulfonate (PFOS)	1.48	NG_L
B6K0124-BLK1	Perfluorooctane Sulfonate (PFOS)	1.71	NG_L
B6K0001-BLK1	Perfluorooctanoic acid (PFOA)	0.818	NG_L
B6K0053-BLK1	Perfluorononanoic acid (PFNA)	0.933	NG_L
OC-FB-110216	Perfluorooctanoic acid (PFOA)	0.691	NG_L
OC-EB-110216	Perfluorooctanoic acid (PFOA)	0.731	NG_L
OC-FB110816	Perfluorononanoic acid (PFNA)	0.866	NG_L
B6K0124-BLK1	Perfluoroheptanoic acid (PFHpA)	0.802	NG_L

Field Duplicate Precision

Native sample MW-BG13-1016 and field duplicate MW-BG13P-1016 did not meet precision criteria for perfluorohexanesulfonic acid (PFHxS) and PFOS. Affected data are summarized in **Attachment 1**.

Internal Standards

Sample MW-BG13P-1016 exhibited low recoveries in the internal standards. Samples OW26-MW1-1116 and OW26-MW1P 1116 exhibited high recoveries in the internal standards. Affected data are summarized in **Attachment 1**.

Conclusion

These data can be used in the project decision-making process as qualified by the data quality evaluation process.

Please do not hesitate to contact us about this validation report.

Sincerely,

Tiffany McGlynn

Qualification Flags

Exclude	More appropriate data exist for this analyte.
R	Data were rejected for use.
UL	Analyte not detected, quantitation limit is potentially biased low.
UJ	Analyte not detected, estimated quantitation limit.
U	Analyte not detected.
B	Not detected substantially above the level reported in laboratory or field blanks.
L	Analyte present, estimated value potentially biased low.
K	Analyte present, estimated value potentially biased high.
N	Analyte identification presumptive; no second column analysis performed or GC/MS tentative identification.
J	Analyte present, estimated value.
NJ	Analysis indicates the presence of an analyte that was "tentatively identified" and the associated value represents its approximate concentration.
None	Placeholder for calculating quality control issues that do not require flagging.
=	Analyte was detected at a concentration greater than the quantitation limit.

Qualifier Code Reference

Value	Description
%SOL	High Moisture content
2C	Second Column – Poor Dual Column Reproducibility
2S	Second Source – Bad reproducibility between tandem detectors
BD	Blank Spike/Blank Spike Duplicate(LCS/LCSD) Precision
BRL	Below Reporting Limit
BSH	Blank Spike/LCS – High Recovery
BSL	Blank Spike/LCS – Low Recovery
CC	Continuing Calibration
CCBL	Continuing Calibration Blank Contamination
CCH	Continuing Calibration Verification – High Recovery
CCL	Continuing Calibration Verification – Low Recovery
DL	Redundant Result – due to Dilution
EBL	Equipment Blank Contamination
EMPC	Estimated Possible Maximum Concentration
ESH	Extraction Standard - High Recovery
ESL	Extraction Standard - Low Recovery
FBL	Field Blank Contamination
FD	Field Duplicate
HT	Holding Time
ICB	Initial Calibration – Bad Linearity or Curve Function
ICH	Initial Calibration – High Relative Response Factors
ICL	Initial Calibration – Low Relative Response Factors
IR15	Ion ratio exceeds +/- 15% difference
ISH	Internal Standard – High Recovery
ISL	Internal Standard – Low Recovery
LD	Lab Duplicate Reproducibility
LR	Concentration Exceeds Linear Range
MBL	Method Blank Contamination
MDP	Matrix Spike/Matrix Spike Duplicate Precision
MI	Matrix interference obscuring the raw data

Value	Description
MSH	Matrix Spike and/or Matrix Spike Duplicate – High Recovery
MSL	Matrix Spike and/or Matrix Spike Duplicate – Low Recovery
OT	Other
PD	Pesticide Degradation
RE	Redundant Result - due to Reanalysis or Re-extraction
SD	Serial Dilution Reproducibility
SSH	Spiked Surrogate – High Recovery
SSL	Spiked Surrogate – Low Recovery
TBL	Trip Blank Contamination
TN	Tune

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			1601420			Perfluoroalkyl Compounds	OC-EB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-FB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-EB110816	WQ	Water for QC samples	08-Nov-16
FTWG-MW-02	SWMU 00011, AOC UST 000004	OCEANA_NAS	WLM	Monitoring well	1601420	12204463.95	3465718.41	Perfluoroalkyl Compounds	FTWG-MW-02-1116	WG	Ground water	08-Nov-16
FTWG-MW-02	SWMU 00011, AOC UST 000004	OCEANA_NAS	WLM	Monitoring well	1601420	12204463.95	3465718.41	Perfluoroalkyl Compounds	FTWG-MW-02-1116	WG	Ground water	08-Nov-16
FTWG-MW-02	SWMU 00011, AOC UST 000004	OCEANA_NAS	WLM	Monitoring well	1601420	12204463.95	3465718.41	Perfluoroalkyl Compounds	FTWG-MW-02-1116	WG	Ground water	08-Nov-16
FTWG-MW-02	SWMU 00011, AOC UST 000004	OCEANA_NAS	WLM	Monitoring well	1601420	12204463.95	3465718.41	Perfluoroalkyl Compounds	FTWG-MW-02-1116	WG	Ground water	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-FB110816	WQ	Water for QC samples	08-Nov-16
FTWG-MW-02	SWMU 00011, AOC UST 000004	OCEANA_NAS	WLM	Monitoring well	1601420	12204463.95	3465718.41	Perfluoroalkyl Compounds	FTWG-MW-02-1116	WG	Ground water	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-FB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-EB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-FB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-FB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-EB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-EB110816	WQ	Water for QC samples	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-FB110816	WQ	Water for QC samples	08-Nov-16
FTWG-MW-02	SWMU 00011, AOC UST 000004	OCEANA_NAS	WLM	Monitoring well	1601420	12204463.95	3465718.41	Perfluoroalkyl Compounds	FTWG-MW-02-1116	WG	Ground water	08-Nov-16
		OCEANA_NAS			1601420			Perfluoroalkyl Compounds	OC-EB110816	WQ	Water for QC samples	08-Nov-16