



**Groundwater Investigation Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Figure, SDG 1700293**

*Outlying Landing Field Coupeville
Naval Air Station Whidbey Island
Coupeville, Washington*

February 2019

March 09, 2017

Vista Work Order No. 1700293

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 March 04, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'Navy Clean CTO-08'.

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

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

Sincerely,



Martha Maier
Laboratory Director



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

Vista Work Order No. 1700293

Case Narrative

Sample Condition on Receipt:

Eleven groundwater 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:

EPA Method 537

All of the samples were centrifuged prior to extraction.

The samples were extracted and analyzed for PFBS, PFOA, and PFOS 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 (MB) 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 surrogate recoveries for all QC and field samples were within the acceptance criteria.

An MD/MSD were performed on sample "WI-CV-GW12D-0317".

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Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700293-01	WI-CV-GW02S-0317		01-Mar-17 11:00	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-02	WI-CV-GW02SP-0317		01-Mar-17 11:05	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-03	WI-CV-GW04S-0317		01-Mar-17 13:25	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-04	WI-CV-GW04SP-0317		01-Mar-17 13:35	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-05	WI-CV-GW02M-0317		01-Mar-17 13:55	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-06	WI-CV-GW12D-0317	MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD	01-Mar-17 16:50	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-07	WI-CV-EB09-030117		01-Mar-17 14:00	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-08	WI-CV-GW08S-0317		02-Mar-17 10:50	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-09	WI-CV-FB01-030217		02-Mar-17 13:00	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-10	WI-CV-EB10-030217		02-Mar-17 13:15	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-11	WI-CV-EB11-030217		02-Mar-17 13:30	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank	Modified EPA Method 537
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Matrix: Aqueous	QC Batch: B7C0017	Lab Sample: B7C0017-BLK1
Sample Size: 0.125 L	Date Extracted: 06-Mar-2017 8:15	Date Analyzed: 06-Mar-17 17:17 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	117	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	82.1	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	104	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: OPR**Modified EPA Method 537**Matrix: Aqueous
Sample Size: 0.125 LQC Batch: B7C0017
Date Extracted: 06-Mar-2017 8:15Lab Sample: B7C0017-BS1
Date Analyzed: 06-Mar-17 16:27 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	84.2	80.0	105	60 - 130	IS 13C3-PFBS	106	60 - 150
PFOA	83.5	80.0	104	70 - 130	IS 13C2-PFOA	88.8	60 - 150
PFOS	70.4	80.0	88.0	70 - 130	IS 13C8-PFOS	91.8	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: WI-CV-GW02S-0317**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700293-01	Date Received:	04-Mar-2017 9:49		
Project:	Navy Clean CTO-08	Sample Size:	0.131 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15		
Date Collected:	01-Mar-2017 11:00			Date Analyzed:	06-Mar-17 18:45	Column:	BEH C18		
Location:	MW-02S				07-Mar-17 09:51	Column:	BEH C18		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	332	17.1	38.2	76.3	D	IS 13C3-PFBS	112	60 - 150	D
PFOA	571	0.621	1.91	7.63		IS 13C2-PFOA	78.6	60 - 150	
PFOS	54.7	0.770	0.859	7.63		IS 13C8-PFOS	94.0	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

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

Only the linear isomer is reported for all other analytes.

Sample ID: WI-CV-GW02SP-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	Cu 2M u ill	Matrix:	9 r4ondGater	Lab Sample:	17002v3-02	Date weceiRed:	0H-Mar-2017 v:Hv		
Pr4ject:	NaRy Clean CTO-08	Sample Size:	0.12v L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15		
Date C4llected:	01-Mar-2017 11:05			Date Analyzed:	06-Mar-17 18:58 C4lomn: BEu C18				
L4cati4n:	MW-02S				07-Mar-17 10:0H C4lomn: BEu C18				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	357	17.3	38.8	77.H	D	IS 13C3-PFBS	112	60 - 150	D
PFOA	56H	0.630	1.vH	7.7H		IS 13C2-PFOA	86.H	60 - 150	
PFOS	53.0	0.781	0.872	7.7H		IS 13C8-PFOS	v0.H	60 - 150	

DL - Detecti4n limit
wL - wep4rting limit

LCL-UCL - L4Ger c4ntr4l limit - opper c4ntr4l limit
wesolts rep4rted t4 DL.
When rep4rted, PFBS, PFu xS, PFOA and PFOS include b4th linear and branched is4mers.
Only the linear is4mer is rep4rted f4r all 4ther analytes.

Sample ID: WI-CV-GW04S-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	9 roundGater	Lab Sample:	170024T-0T	Date weceiRed:	0v-Mar-2017 4:v4
Project:	NaRy Clean CO. -08	Sample Size:	03128 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	01-Mar-2017 1T:25			Date Analyzed:	06-Mar-17 14:10	Column:	BEH C18
Location:	MW-0vS						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1375	T31	738T		IS 1TCT-PFBS	4837	60 - 150	
PF. A	ND	036T7	1345	738T		IS 1TC2-PF. A	8T3	60 - 150	
PF. S	ND	03740	03874	738T		IS 1TC8-PF. S	4v38	60 - 150	

DL - Detection limit
wL - weporting limit

LCL-UCL - LoGer control limit - upper control limit
results reported to DL3

When reported, PFBS, PFHxS, PF. A and PF. S include both linear and branched isomers3
. nly the linear isomer is reported for all other analytes3

Sample ID: WI-CV-GW04SP-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
P ame:	C9 2M 9 ill	Matrix:	GruHdwater	Lab Sample:	170024o-0N	Date Received:	0N-Mar-2017 4:N4
j ru'ect:	Pavy Clean CO. -08	Sample Size:	03lo1 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	01-Mar-2017 1o:o5			Date Analyzed:	06-Mar-17 14:2o	CulHmn:	BE9 C18
Lucatium:	MW-0NS						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j FBS	PD	1371	o32	736N		IS 1oCo-j FBS	4o3l	60 - 150	
j F. A	PD	03621	1341	736N		IS 1oC2-j F. A	8236	60 - 150	
j F. S	PD	03770	0354	736N		IS 1oC8-j F. S	8438	60 - 150	

DL - Detectiun limit
 RL - Repurting limit

LCL-UCL - Luwer cuntrl limit - Hpper cuntrl limit
 ResHts repurtd tu DL3
 When repurtd, j FBS, j F9 xS, j F. A and j F. S inclHle both linear and branched isumers3
 . nly the linear isumer is repurtd fur all uther analytes3

Sample ID: WI-CV-GW02M-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	9 roundGater	Lab Sample:	17002N4-05	Date weceiRed:	0v-Mar-2017 NvN
Project:	PaRy Clean CO. -08	Sample Size:	0312NL	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	01-Mar-2017 14:55			Date Analyzed:	06-Mar-17 20:14	Column:	BEH C18
Location:	MW-02M						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j FBS	PD	137v	438	736		IS 14C4-j FBS	N63v	60 - 150	
j F. A	PD	03641	13Nv	736		IS 14C2-j F. A	8630	60 - 150	
j F. S	PD	03784	0372	736		IS 14C8-j F. S	N630	60 - 150	

DL - Detection limit
wL - weporting limit

LCL-UCL - LoGer control limit - upper control limit
results reported to DL3

When reported, j FBS, j FHxS, j F. A and j F. S include both linear and branched isomers3
only the linear isomer is reported for all other analytes3

Sample ID: WI-CV-GW02D-1307

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater	Lab Sample:	17002v3-06	Date Geceived:	0R-Mar-2017 v:Rv
Pr4ject:	Nawy Clean CTO-08	Sample Size:	0.126 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date C4llected:	01-Mar-2017 16:50			Date Analyzed:	06-Mar-17 20:26	C4lumn:	BEu C18
L4cati4n:	MW-12D						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.78	3.v7	7.v6		IS 13C3-PFBS	88.v	60 - 150	
PFOA	ND	0.6R8	1.v8	7.v6		IS 13C2-PFOA	82.0	60 - 150	
PFOS	ND	0.803	0.8v3	7.v6		IS 13C8-PFOS	8R0	60 - 150	

DL - Detecti4n limit
GL - Gep4rting limit

LCL-UCL - L49 er c4ntr4l limit - opper c4ntr4l limit
Gesolts rep4rted t4 DL.
When rep4rted, PFBS, PFu xS, PFOA and PFOS include b4th linear and branched is4mers.
Only the linear is4mer is rep4rted f4r all 4ther analytes.

Sample ID: Matrix Spike

Modified EPA Method 537

Source Client ID: WI-CV-GW12D-0317	QC Batch: B7C0017	Lab Sample: B7C0017-MS1/B7C0017-MSD1
Source LabNumber: 1700293-06	Date Extracted: 06-Mar-2017 8:15	Date Analyzed: 06-Mar-17 21:41 Column: BEH C18
Matrix: Aqueous		06-Mar-17 21:53 Column: BEH C18
Sample Size: 0.124/0.125 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qualifiers	Spike-MSD (ng/L)	MSD %R	RPD	MSD Qualifiers	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MSD Qualifiers
PFBS	80.6	111		79.7	107	3.67		IS 13C3-PFBS	89.4		88.0	
PFOA	80.6	114		79.7	112	1.77		IS 13C2-PFOA	83.9		83.0	
PFOS	80.6	111		79.7	90.8	20.0		IS 13C8-PFOS	74.7		89.8	

Sample ID: WI-CV-EB09-030117

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	9 roundGater	Lab Sample:	17002N4-07	Date received:	0v-Mar-2017 NvN
Project:	PaRy Clean CO. -08	Sample Size:	03115 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	01-Mar-2017 1v:00			Date Analyzed:	06-Mar-17 20:48	Column:	BEH C18
Location:	EB-0N						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j WBS	PD	13N	v345	83N		IS 14C4-j WBS	N03	60 - 150	
j W A	PD	03707	2317	83N		IS 14C2-j W A	8631	60 - 150	
j W S	PD	0377	03N8	83N		IS 14C8-j W S	N53	60 - 150	

DL - Detection limit
wL - weportinF limit

LCL-g CL - LoGer control limit - upper control limit
wehltUreported to DL3

s hen reported, j WBS, j WxS, j W A and j W S include both linear and branched iömerU
. nly the linear iömer iUreported for all other analyteU

Sample ID: WI-CV-GW08S-0317

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater		Lab Sample:	17002v3-08	Date Geceived:	0R-Mar-2017	v:Rv
Pr4ject:	Nawy Clean CTO-08	Sample Size:	0.130 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017	8:15
Date C4llected:	02-Mar-2017 10:50				Date Analyzed:	06-Mar-17 20:51	C4lumn:	BEu	C18
L4cati4n:	MW-08S								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.72	3.85	7.71		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.627	1.v2	7.71		IS 13C2-PFOA	v2.3	60 - 150	
PFOS	ND	0.777	0.865	7.71		IS 13C8-PFOS	76.v	60 - 150	

DL - Detecti4n limit
GL - Gep4rting limit

LCL-UCL - L49 er c4ntr4l limit - opper c4ntr4l limit
Gesolts rep4rted t4 DL.
When rep4rted, PFBS, PFu xS, PFOA and PFOS include b4th linear and branched is4mers.
Only the linear is4mer is rep4rted f4r all 4ther analytes.

Sample ID: WI-CV-FB01-030217

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	9 roundGater	Lab Sample:	17002N4-0N	Date received:	0v-Mar-2017 NvN
Project:	PaRy Clean CO. -08	Sample Size:	0311NL	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	02-Mar-2017 14:00			Date Analyzed:	06-Mar-17 21:04	Column:	BEH C18
Location:	WB01						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j WBS	PD	137	v30	837		IS 14C4-j WBS	104	60 - 150	
j W A	PD	0381	230	837		IS 14C2-j W A	853N	60 - 150	
j W S	PD	03v5	03v5	837		IS 14C8-j W S	8v30	60 - 150	

DL - Detection limit
wL - weportinF limit

LCL-g CL - LoGer control limit - upper control limit
wehltUreported to DL3

s hen reported, j WBS, j WxS, j W A and j W S include both linear and branched iömerU
. nly the linear iömer iUreported for all other analyteU

Sample ID: WI-CV-EB10-030217

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater	Lab Sample:	17002vT-10	Date Geceived:	0R-Mar-2017	v:Rv	
Pr4ject:	Nawy Clean CO. -08	Sample Size:	03vT0 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017	8:15	
Date C4llected:	02-Mar-2017 1T:15			Date Analyzed:	06-Mar-17 21:16	C4lomn:	BEu	C18	
L4cati4n:	EB10								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PWBS	ND	23R1	53F8	1038		IS 1TCT-PWBS	105	60 - 150	
PW A	ND	03875	236v	1038		IS 1TC2-PW A	v23R	60 - 150	
PW S	ND	1308	1321	1038		IS 1TC8-PW S	v730	60 - 150	

DL - Detecti4n limit
GL - Gep4rtinF limit

LCL-g CL - L49 er c4ntr4l limit - opper c4ntr4l limit
GeL6ltUrep4rted t4 DL3
s hen rep4rted, PWBS, PWi xS, PW A and PW S include b4th linear and branched iU4merU3
nly the linear iU4mer iUrep4rted f4r all 4ther analyteU3

Sample ID: WI-CV-EB11-030217

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater	Lab Sample:	17002vT-11	Date Geceived:	0R-Mar-2017 v:Rv
Pr4ject:	Nawy Clean CO. -08	Sample Size:	03l18 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date C4llected:	02-Mar-2017 1T:T0			Date Analyzed:	06-Mar-17 21:28 C4lomn: BEu C18		
L4cati4n:	EB11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PWBS	ND	13v	R3R	836		IS 1TCT-PWBS	10T	60 - 150	
PW A	ND	038v	232	836		IS 1TC2-PW A	853	60 - 150	
PW S	ND	035R	035T	836		IS 1TC8-PW S	v73	60 - 150	

DL - Detecti4n limit
GL - Gep4rtinF limit

LCL-g CL - L49 er c4ntr4l limit - opper c4ntr4l limit
GeL6ltUrep4rted t4 DL3
s hen rep4rted, PWBS, PWi xS, PW A and PW S include b4th linear and branched iU4merU
. nly the linear iU4mer iUrep4rted f4r all 4ther analyteU

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



CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: 1700293 Temp: 70.7 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: Navy CLEAN CTD-08 P.O.#: 10006-7-106051 Sampler: B. Prentice
674580.09.FI.WS (name) E. Bilylev
Fi. Wimer

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

Invoice to: Name Katie Tippin Company CH2M Address _____ City _____ State _____ Ph# _____ Fax# _____

Relinquished by (printed name and signature) Brittany Prentice Bsp Date 3/3/2017 Time 15:11 Received by (printed name and signature) B. Benedict Date 03/04/17 Time 1001

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

Add Analysis(es) Requested			EPA 1613	EPA 8290	EPA 8280	EPA 1668	EPA 1614	CARB429							
Container(s)															
Quantity	Type	Matrix	2378-TCDD	PCDD/PCDF	2378-TCDD	PCDD/PCDF	2378-TCDD	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Mut EPA 537

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	PCDD/PCDF	2378-TCDD	PCDD/PCDF	2378-TCDD	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Mut EPA 537	Comments
WI-CV-GW025-0317	3/1/2017	11:00	MW-025	2	0	GW												X		
WI-CV-GW025/SP-0317	3/1/2017	11:05	MW-025	2	0	GW												X		
WI-CV-GW045-0317	3/1/2017	12:25	MW-045	2	0	GW												X		
WI-CV-GW045/SP-0317	3/1/2017	13:35	MW-045	2	0	GW												X		
WI-CV-GW02M-0317	3/1/2017	13:55	MW-02M	2	0	GW												X		
WI-CV-GW12D-0317	3/1/2017	16:50	MW-12D	2	0	GW												X		
WI-CV-GW12D-0317-MU	3/1/2017	16:50	MW-12D	2	0	GW												X		
WI-CV-GW12D-0317-3D	3/1/2017	16:50	MW-12D	2	0	GW												X		
WI-CV-EB09-030117	3/1/2017	14:00	EB-09	2	0	GW												X		
WI-CV-GW085-0317	3/2/2017	10:50	MW-085	2	0	GW												X		

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M
 Address: 1100 NE Circle Blvd
 City: Corvallis State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: Tiffany.Hill@Chem.com



CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: 1700293 Temp: -0.7 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: Navy CLEAN CTD-08 P.O.#: 10006-7-106051 Sampler: B. Prentice
E. Blyden
M. W. Allen (name)

TAT (check one): Standard: 21 days
 14 days 7 days Specify: _____
 Rush (surcharge may apply)
 State _____ Ph# _____ Fax# _____

Invoice to: Name Katie Tippin Company CH2M Address _____ City _____ State _____ Ph# _____ Fax# _____

Relinquished by (printed name and signature) Brittany Prentice Date 3/3/2017 Time 1511 Received by (printed name and signature) B. Benedict Date 03/04/17 Time 1001
 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
 Method of Shipment: UdEx
 Tracking No.: _____
 ATTN: Sample Receiving
 Add Analysis(es) Requested: _____
 Container(s): _____

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 COGENERS	PBDE	PAH	WHO-29	Mod. EPA 537	Comments	
WI-CV-FB01-030217	3/2/2017	1300	FB01	2	0	0																		
WI-CV-FB10-030217	3/2/2017	1315	FB10	2	0	0																		
WI-CV-FB11-030217	3/2/2017	1330	FB11	2	0	0																		

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
 Name: Tiffany Hill
 Company: CH2M
 Address: 1100 NE ORLEANS BLVD
 City: Corvallis State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: Tiffany.Hill@ch2m.com

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700293 TAT 7

Samples Arrival:	Date/Time <u>03/04/17 0949</u>	Initials: <u>AB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>03/04/17 1011</u>	Initials: <u>AB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>E5</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: <u>0.0</u> (uncorrected)	Time:	Thermometer ID: <u>HR-1</u>	
Temp °C: <u>-0.7</u> (corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<u>DT-3</u>	

		YES	NO	NA
Adequate Sample Volume Received?	<u>A/B MS/MSD</u>	<input checked="" type="checkbox"/>		
Holding Time Acceptable?			<input checked="" type="checkbox"/>	
Shipping Container(s) Intact?		<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?		<input checked="" type="checkbox"/>		
Shipping Documentation Present?		<input checked="" type="checkbox"/>		
Airbill	Trk # <u>7785 7280 8447</u>	<input checked="" type="checkbox"/>		
Sample Container Intact?		<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?				<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?		<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				<input checked="" type="checkbox"/>
Preservation Documented:	<u>Na₂S₂O₃</u> <u>Trizma</u>	Yes	No	<input checked="" type="checkbox"/> NA
Shipping Container	<u>Vista</u>	Client	Retain	Return
				Dispose

Comments:



March 09, 2017

Vista Work Order No. 1700293

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 March 04, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'Navy Clean CTO-08'.

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

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

Sincerely,

A handwritten signature in black ink that reads "Karen Lopez for".

Martha Maier
Laboratory Director



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

Vista Work Order No. 1700293

Case Narrative

Sample Condition on Receipt:

Eleven groundwater 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:

EPA Method 537

All of the samples were centrifuged prior to extraction.

The samples were extracted and analyzed for PFBS, PFOA, and PFOS 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 (MB) 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 surrogate recoveries for all QC and field samples were within the acceptance criteria.

An MD/MSD were performed on sample "WI-CV-GW12D-0317".

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Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700293-01	WI-CV-GW02S-0317		01-Mar-17 11:00	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-02	WI-CV-GW02SP-0317		01-Mar-17 11:05	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-03	WI-CV-GW04S-0317		01-Mar-17 13:25	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-04	WI-CV-GW04SP-0317		01-Mar-17 13:35	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-05	WI-CV-GW02M-0317		01-Mar-17 13:55	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-06	WI-CV-GW12D-0317	MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD	01-Mar-17 16:50	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-07	WI-CV-EB09-030117		01-Mar-17 14:00	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-08	WI-CV-GW08S-0317		02-Mar-17 10:50	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-09	WI-CV-FB01-030217		02-Mar-17 13:00	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-10	WI-CV-EB10-030217		02-Mar-17 13:15	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700293-11	WI-CV-EB11-030217		02-Mar-17 13:30	04-Mar-17 09:49	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

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

Matrix: Aqueous	QC Batch: B7C0017	Lab Sample: B7C0017-BLK1
Sample Size: 0.125 L	Date Extracted: 06-Mar-2017 8:15	Date Analyzed: 06-Mar-17 17:17 Column: BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.79	4.00	8.00		IS 13C3-PFBS	117	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	82.1	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	104	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: OPR**Modified EPA Method 537**Matrix: Aqueous
Sample Size: 0.125 LQC Batch: B7C0017
Date Extracted: 06-Mar-2017 8:15Lab Sample: B7C0017-BS1
Date Analyzed: 06-Mar-17 16:27 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	84.2	80.0	105	60 - 130	IS 13C3-PFBS	106	60 - 150
PFOA	83.5	80.0	104	70 - 130	IS 13C2-PFOA	88.8	60 - 150
PFOS	70.4	80.0	88.0	70 - 130	IS 13C8-PFOS	91.8	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: WI-CV-GW02S-0317**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700293-01	Date Received:	04-Mar-2017 9:49		
Project:	Navy Clean CTO-08	Sample Size:	0.131 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15		
Date Collected:	01-Mar-2017 11:00			Date Analyzed:	06-Mar-17 18:45	Column:	BEH C18		
Location:	MW-02S				07-Mar-17 09:51	Column:	BEH C18		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	332	17.1	38.2	76.3	D	IS 13C3-PFBS	112	60 - 150	D
PFOA	571	0.621	1.91	7.63		IS 13C2-PFOA	78.6	60 - 150	
PFOS	54.7	0.770	0.859	7.63		IS 13C8-PFOS	94.0	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

Sample ID: WI-CV-GW02SP-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	Cu 2M u ill	Matrix:	9 r4ondGater	Lab Sample:	17002v3-02	Date weceiRed:	0H-Mar-2017 v:Hv		
Pr4ject:	NaRy Clean CTO-08	Sample Size:	0.12v L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15		
Date C4llected:	01-Mar-2017 11:05			Date Analyzed:	06-Mar-17 18:58 C4lomn: BEu C18				
L4cati4n:	MW-02S				07-Mar-17 10:0H C4lomn: BEu C18				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	357	17.3	38.8	77.H	D	IS 13C3-PFBS	112	60 - 150	D
PFOA	56H	0.630	1.vH	7.7H		IS 13C2-PFOA	86.H	60 - 150	
PFOS	53.0	0.781	0.872	7.7H		IS 13C8-PFOS	v0.H	60 - 150	

DL - Detecti4n limit
wL - wep4rting limit

LCL-UCL - L4Ger c4ntr4l limit - opper c4ntr4l limit
wesolts rep4rted t4 DL.
When rep4rted, PFBS, PFu xS, PFOA and PFOS include b4th linear and branched is4mers.
Only the linear is4mer is rep4rted f4r all 4ther analytes.

Sample ID: WI-CV-GW04S-0317

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	9 roundGater	Lab Sample:	170024T-0T	Date weceiRed:	0v-Mar-2017 4:v4		
Project:	NaRy Clean CO. -08	Sample Size:	03128 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15		
Date Collected:	01-Mar-2017 1T:25				Date Analyzed:	06-Mar-17 14:10 Column: BEH C18			
Location:	MW-0vS								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1375	T31	738T		IS 1TCT-PFBS	4837	60 - 150	
PF. A	ND	036T7	1345	738T		IS 1TC2-PF. A	8T3	60 - 150	
PF. S	ND	03740	0374	738T		IS 1TC8-PF. S	4v3	60 - 150	

DL - Detection limit
wL - weporting limit

LCL-UCL - LoGer control limit - upper control limit
results reported to DL3

When reported, PFBS, PFHxS, PF. A and PF. S include both linear and branched isomers3
nly the linear isomer is reported for all other analytes3

Sample ID: WI-CV-GW04SP-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
P ame:	C9 2M 9 ill	Matrix:	GruHdwater	Lab Sample:	170024o-0N	Date Received:	0N-Mar-2017 4:N4
j ru'ect:	Pavy Clean CO. -08	Sample Size:	03lo1 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	01-Mar-2017 1o:o5			Date Analyzed:	06-Mar-17 14:2o	CulHmn:	BE9 C18
Lucatium:	MW-0NS						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j FBS	PD	1371	o32	736N		IS 1oCo-j FBS	4o3l	60 - 150	
j F. A	PD	03621	1341	736N		IS 1oC2-j F. A	8236	60 - 150	
j F. S	PD	03770	0354	736N		IS 1oC8-j F. S	8438	60 - 150	

DL - Detectiun limit
 RL - Repurting limit

LCL-UCL - Luwer cuntrl limit - Hpper cuntrl limit
 ResHts repurtd tu DL3
 When repurtd, j FBS, j F9 xS, j F. A and j F. S inclHle both linear and branched isumers3
 . nly the linear isumer is repurtd fur all uther analytes3

Sample ID: WI-CV-GW02M-0317

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	9 roundGater	Lab Sample:	17002N4-05	Date weceiRed:	0v-Mar-2017 NvN
Project:	PaRy Clean CO. -08	Sample Size:	0312NL	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	01-Mar-2017 14:55			Date Analyzed:	06-Mar-17 20:14	Column:	BEH C18
Location:	MW-02M						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j FBS	PD	137v	438	736		IS 14C4-j FBS	N63v	60 - 150	
j F. A	PD	03641	13Nv	736		IS 14C2-j F. A	8630	60 - 150	
j F. S	PD	03784	0372	736		IS 14C8-j F. S	N630	60 - 150	

DL - Detection limit
wL - weporting limit

LCL-UCL - LoGer control limit - upper control limit
results reported to DL3

When reported, j FBS, j FHxS, j F. A and j F. S include both linear and branched isomers3
nly the linear isomer is reported for all other analytes3

Sample ID: WI-CV-GW02D-1307

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater		Lab Sample:	17002v3-06	Date Geceived:	0R-Mar-2017 v:Rv	
Pr4ject:	Nawy Clean CTO-08	Sample Size:	0.126 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date C4llected:	01-Mar-2017 16:50				Date Analyzed:	06-Mar-17 20:26 C4lomn: BEu C18			
L4cati4n:	MW-12D								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.78	3.v7	7.v6		IS 13C3-PFBS	88.v	60 - 150	
PFOA	ND	0.6R8	1.v8	7.v6		IS 13C2-PFOA	82.0	60 - 150	
PFOS	ND	0.803	0.8v3	7.v6		IS 13C8-PFOS	8R0	60 - 150	

DL - Detecti4n limit
GL - Gep4rting limit

LCL-UCL - L49 er c4ntr4l limit - opper c4ntr4l limit
Gesolts rep4rted t4 DL.
When rep4rted, PFBS, PFu xS, PFOA and PFOS inclode b4th linear and branched is4mers.
Only the linear is4mer is rep4rted f4r all 4ther analytes.

Sample ID: Matrix Spike

Modified EPA Method 537

Source Client ID: WI-CV-GW12D-0317	QC Batch: B7C0017	Lab Sample: B7C0017-MS1/B7C0017-MSD1
Source LabNumber: 1700293-06	Date Extracted: 06-Mar-2017 8:15	Date Analyzed: 06-Mar-17 21:41 Column: BEH C18
Matrix: Aqueous		06-Mar-17 21:53 Column: BEH C18
Sample Size: 0.124/0.125 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qualifiers	Spike-MSD (ng/L)	MSD %R	RPD	MSD Qualifiers	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MSD Qualifiers
PFBS	80.6	111		79.7	107	3.67		IS 13C3-PFBS	89.4		88.0	
PFOA	80.6	114		79.7	112	1.77		IS 13C2-PFOA	83.9		83.0	
PFOS	80.6	111		79.7	90.8	20.0		IS 13C8-PFOS	74.7		89.8	

Sample ID: WI-CV-EB09-030117

Modified EPA Method 537

Client Data			Sample Data			Laboratory Data				
P name:	CH2M Hill		Matrix:	9 roundGater		Lab Sample:	17002N4-07	Date weceiRed:	0v-Mar-2017	NvN
j ro'ect:	PaRy Clean CO. -08		Sample Size:	03115 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017	8:15
Date Collected:	01-Mar-2017 1v:00					Date Analyzed:	06-Mar-17 20:48 Column: BEH C18			
Location:	EB-0N									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j WBS	PD	13N	v345	836N		IS 14C4-j WBS	N03	60 - 150	
j W A	PD	03707	2317	836N		IS 14C2-j W A	8631	60 - 150	
j W S	PD	0377	0378	836N		IS 14C8-j W S	N53	60 - 150	

DL - Detection limit
wL - weportinF limit

LCL-g CL - LoGer control limit - upper control limit
we'itUreported to DL3

s hen reported, j WBS, j WxS, j W A and j W S include both linear and branched i'omerU
. nly the linear i'omer iUreported for all other analyteU

Sample ID: WI-CV-GW08S-0317

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater		Lab Sample:	17002v3-08	Date Geceived:	0R-Mar-2017	v:Rv
Pr4ject:	Nawy Clean CTO-08	Sample Size:	0.130 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017	8:15
Date C4llected:	02-Mar-2017 10:50				Date Analyzed:	06-Mar-17 20:51	C4lomn:	BEu	C18
L4cati4n:	MW-08S								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.72	3.85	7.71		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.627	1.v2	7.71		IS 13C2-PFOA	v2.3	60 - 150	
PFOS	ND	0.777	0.865	7.71		IS 13C8-PFOS	76.v	60 - 150	

DL - Detecti4n limit
GL - Gep4rting limit

LCL-UCL - L49 er c4ntr4l limit - opper c4ntr4l limit
Gesolts rep4rted t4 DL.
When rep4rted, PFBS, PFu xS, PFOA and PFOS include b4th linear and branched is4mers.
Only the linear is4mer is rep4rted f4r all 4ther analytes.

Sample ID: WI-CV-FB01-030217

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	9 roundGater	Lab Sample:	17002N4-0N	Date received:	0v-Mar-2017 NvN
Project:	PaRy Clean CO. -08	Sample Size:	0311NL	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date Collected:	02-Mar-2017 14:00			Date Analyzed:	06-Mar-17 21:04	Column:	BEH C18
Location:	WB01						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
j WBS	PD	137	v30	837		IS 14C4-j WBS	104	60 - 150	
j W A	PD	0381	230	837		IS 14C2-j W A	853N	60 - 150	
j W S	PD	03v5	03v5	837		IS 14C8-j W S	8v30	60 - 150	

DL - Detection limit
wL - weportinF limit

LCL-g CL - LoGer control limit - upper control limit
wehltUreported to DL3

s hen reported, j WBS, j WxS, j W A and j W S include both linear and branched iömerU
nly the linear iömer iUreported for all other analyteU

Sample ID: WI-CV-EB10-030217

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater	Lab Sample:	17002vT-10	Date Geceived:	0R-Mar-2017 v:Rv
Pr4ject:	Nawy Clean CO. -08	Sample Size:	03vT0 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date C4llected:	02-Mar-2017 1T:15			Date Analyzed:	06-Mar-17 21:16 C4lomn: BEu C18		
L4cati4n:	EB10						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PWBS	ND	23R1	53F8	1038		IS 1TCT-PWBS	105	60 - 150	
PW A	ND	03875	236v	1038		IS 1TC2-PW A	v23R	60 - 150	
PW S	ND	1308	1321	1038		IS 1TC8-PW S	v730	60 - 150	

DL - Detecti4n limit
GL - Gep4rtinF limit

LCL-g CL - L49 er c4ntr4l limit - opper c4ntr4l limit
GeL6ltUrep4rted t4 DL3
s hen rep4rted, PWBS, PWi xS, PW A and PW S include b4th linear and branched iU4merU3
nly the linear iU4mer iUrep4rted f4r all 4ther analyteU3

Sample ID: WI-CV-EB11-030217

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	Cu 2M u ill	Matrix:	Hr4ond9 ater	Lab Sample:	17002vT-11	Date Geceived:	0R-Mar-2017 v:Rv
Pr4ject:	Nawy Clean CO. -08	Sample Size:	03l18 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15
Date C4llected:	02-Mar-2017 1T:T0			Date Analyzed:	06-Mar-17 21:28 C4lomn: BEu C18		
L4cati4n:	EB11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PWBS	ND	13v	R3R	836		IS 1TCT-PWBS	10T	60 - 150	
PW A	ND	038v	23I2	836		IS 1TC2-PW A	8530	60 - 150	
PW S	ND	035R	035T	836		IS 1TC8-PW S	v73	60 - 150	

DL - Detecti4n limit
GL - Gep4rtinF limit

LCL-g CL - L49 er c4ntr4l limit - opper c4ntr4l limit
GeL6ltUrep4rted t4 DL3
s hen rep4rted, PWBS, PWi xS, PW A and PW S include b4th linear and branched iU4merU
nly the linear iU4mer iUrep4rted f4r all 4ther analyteU

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



CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: 1700293 Temp: 70.7 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: Navy CLEAN CTD-08 P.O.#: 10006-7-106051 Sampler: B. Prentice
674580.09.FI.WS (name) E. Bilylev
Fi. Wimer

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

Invoice to: Name Katie Tippin Company CH2M Address _____ City _____ State _____ Ph# _____ Fax# _____

Relinquished by (printed name and signature) Brittany Prentice Bsp Date 3/3/2017 Time 15:11 Received by (printed name and signature) B. Benedict Date 03/04/17 Time 1001

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: Fedex
 Tracking No.: _____
 ATTN: sample receiving

Add Analysis(es) Requested			EPA 1613	EPA 8290	EPA 8280	EPA 1668	EPA 1614	CARB429
Container(s)								

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	2378-TCDD	2378 TCDD/TCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Mut EPA 537	Comments	
WI-CV-GW025-0317	3/1/2017	11:00	MW-025	2	0	GW														X		
WI-CV-GW025/SP-0317	3/1/2017	11:05	MW-025	2	0	GW														X		
WI-CV-GW045-0317	3/1/2017	12:25	MW-045	2	0	GW														X		
WI-CV-GW045/SP-0317	3/1/2017	13:35	MW-045	2	0	GW														X		
WI-CV-GW02M-0317	3/1/2017	13:55	MW-02M	2	0	GW														X		
WI-CV-GW12D-0317	3/1/2017	16:50	MW-12D	2	0	GW														X		
WI-CV-GW12D-0317-MU	3/1/2017	16:50	MW-12D	2	0	GW														X		
WI-CV-GW12D-0317-SD	3/1/2017	16:50	MW-12D	2	0	GW														X		
WI-CV-EB09-030117	3/1/2017	14:00	EB-09	2	0	GW														X		
WI-CV-GW085-0317	3/2/2017	10:50	MW-085	2	0	GW														X		

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M
 Address: 1100 NE Circle Blvd
 City: Corvallis State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: Tiffany.Hill@Chem.com



CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: 1700293 Temp: -0.7 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: Navy CLEAN CTD-05 P.O.#: 10006-7-106051 Sampler: B. Prentice E. Blyden M. W. Allen (name)

TAT (check one): Standard: 21 days 14 days 7 days
 Rush (surcharge may apply) Specify: _____
 State _____ Ph# _____ Fax# _____

Invoice to: Name Katie Tippin Company CH2M Address _____ City _____ State _____

Relinquished by (printed name and signature) Brittany Prentice ABP Date 3/3/2017 Time 1511 Received by (printed name and signature) B. Benedict Date 03/04/17 Time 1001

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: UdEX
 Tracking No.: _____
 ATTN: Sample Receiving
 Add Analysis(es) Requested: EPA 1613 EPA 8290 EPA 8280 EPA 1668 EPA 1614 CARB429
 Container(s): _____

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDF	PCDD/PCDF	2378-TCDD	2378-TCDF	PCDD/PCDF	2378-TCDD	2378-TCDF	PCDD/PCDF	TOTALS	COP/PLANAR PCB's	209 COGENERS	PBDE	PAH	WHO-29	Mod. EPA 537	Comments	
WI-CV-FB01-030217	3/2/2017	1300	FB01	2	0	0																		
WI-CV-FB10-030217	3/2/2017	1315	FB10	2	0	0																		
WI-CV-FB11-030217	3/2/2017	1330	FB11	2	0	0																		

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
 Name: Tiffany Hill
 Company: CH2M
 Address: 1100 NE ORCLE BLVD
 City: Corvallis State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: Tiffany.Hill@ch2m.com

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700293 TAT 7

Samples Arrival:	Date/Time <u>03/04/17 0949</u>	Initials: <u>AB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>03/04/17 1011</u>	Initials: <u>AB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>E5</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: <u>0.0</u> (uncorrected)	Time:	Thermometer ID: <u>HR-1</u> ^{AB}	
Temp °C: <u>-0.7</u> (corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	DT-3	

		YES	NO	NA
Adequate Sample Volume Received?	<u>A/B MS/MSD</u>	<input checked="" type="checkbox"/>		
Holding Time Acceptable?			<input checked="" type="checkbox"/>	
Shipping Container(s) Intact?		<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?		<input checked="" type="checkbox"/>		
Shipping Documentation Present?		<input checked="" type="checkbox"/>		
Airbill	Trk # <u>7785 7280 8447</u>	<input checked="" type="checkbox"/>		
Sample Container Intact?		<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?				<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?		<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				<input checked="" type="checkbox"/>
Preservation Documented:	<u>Na₂S₂O₃</u> <u>Trizma</u>	Yes	No	<input checked="" type="checkbox"/> NA
Shipping Container	<u>Vista</u>	Client	Retain	Return
				Dispose

Comments:

EXTRACTION INFORMATION



Process Sheet

Workorder: 1700293

Prep Expiration: 2017-Mar-15
Client: CH2M Hill

Workorder Due: 11-Mar-17 00:00

TAT: 7

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

Prep Batch: B7 C0017

Prep Data Entered: BP 3.7.17
Date and Initials

Version: PFOA, PFOS, PFBS

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700293-01	<input checked="" type="checkbox"/>	WI-CV-GW02S-0317	04-Mar-17 09:49	WR-2 E-5	
1700293-02	<input checked="" type="checkbox"/>	WI-CV-GW02S/SP-0317	04-Mar-17 09:49	WR-2 E-5	
1700293-03	<input checked="" type="checkbox"/>	WI-CV-GW04S-0317	04-Mar-17 09:49	WR-2 E-5	
1700293-04	<input checked="" type="checkbox"/>	WI-CV-GW04S/SP-0317	04-Mar-17 09:49	WR-2 E-5	
1700293-05	<input checked="" type="checkbox"/>	WI-CV-GW02M-0317	04-Mar-17 09:49	WR-2 E-5	
1700293-06	<input checked="" type="checkbox"/>	WI-CV-GW12D-0317	04-Mar-17 09:49	WR-2 E-5	MS/MSD
1700293-07	<input checked="" type="checkbox"/>	WI-CV-EB09-030117	04-Mar-17 09:49	WR-2 E-5	
1700293-08	<input checked="" type="checkbox"/>	WI-CV-GW08S-0317	04-Mar-17 09:49	WR-2 E-5	
1700293-09	<input checked="" type="checkbox"/>	WI-CV-FB01-030217	04-Mar-17 09:49	WR-2 E-5	
1700293-10	<input checked="" type="checkbox"/>	WI-CV-EB10-030217	04-Mar-17 09:49	WR-2 E-5	
1700293-11	<input checked="" type="checkbox"/>	WI-CV-EB11-030217	04-Mar-17 09:49	WR-2 E-5	

Vista PM: Martha Maier

Vial Box ID: The Duke

Sample Reconciled By: B. Parker 3/6/17

Percent Solids



Project: B7C0017

Balance ID: NA

Sample ID	Chemist: <u>NA</u> Date: <u> </u> Time: <u> </u>		Chemist: <u>NA</u> Date: <u> </u> Time: <u> </u>		Chemist/Date BP 3.6.17	
	Boat Wt.	Sample + Boat Wt.	Residue + Boat Wt.	pH before	pH* after	Cr
1700293-01 (A)				7	2	0
-02 (A)				7	2	0
-03 (A)				7	2	0
-04 (A)				7	2	0
-05 (A)				7	2	0
-06 A (A)				7	2	0
-06 B (A)				7	2	0
-06-C (B)				7	2	0
-07 (A)(B)(C)				5	2	0
-08 (A)				7	2	0
-09 (A)(B)(C)				5	2	0
-10 (C)				5	2	0
-11 (C)				5	2	0

BP 3.6.17

Procedure:

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

Notes:

- Ⓐ Added 3 drops HCl to adjust pH to 2
- Ⓑ Added 4 drops HCl to adjust pH to 2
- Ⓒ Added 2 drops HCl to adjust pH to 2

BP 3.6.17

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

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS DOD (LOO as mRL)

B7C0017

Chemist: E. Schneider

Prep Date/Time: 06-Mar-17 08:15

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	<u>B7C0030</u> SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B7C0017-BLK1	NA	NA	(0.125)	EP BP 3/6/17	BP 3.6.17	EP BP 3/6/17
<input type="checkbox"/>	B7C0017-BS1	↓	↓	↓			
<input type="checkbox"/>	B7C0017-MS1 1700293-06	150.92	26.84	0.12408			
<input type="checkbox"/>	B7C0017-MSD1 1700293-06	153.07	27.67	0.12540			
<input type="checkbox"/>	1700293-01	158.17	27.11	0.13106			
<input type="checkbox"/>	1700293-02	156.20	27.08	0.12912			
<input type="checkbox"/>	1700293-03	154.78	27.02	0.12776			
<input type="checkbox"/>	1700293-04	157.96	26.99	0.13097			
<input type="checkbox"/>	1700293-05	155.92	27.02	0.12890			
<input type="checkbox"/>	1700293-06	152.36	26.71	0.12565			
<input type="checkbox"/>	1700293-07	141.81	26.74	0.11507			
<input type="checkbox"/>	1700293-08	156.74	26.96	0.12978			
<input type="checkbox"/>	1700293-09	146.36	26.94	0.11942			
<input type="checkbox"/>	1700293-10	119.71	26.72	0.09299			
<input type="checkbox"/>	1700293-11	144.91	26.73	0.11818			

Ⓐ centrifuged to remove gelatinous substance BP 3.6.17

IS Name Ⓒ 16L1920, 10 mL	NS Name Ⓓ 16I2905, 10 mL	RS Name Ⓔ 17A1201, 10 mL	SPE Chem <u>Strata X-AU 33μm 200μm</u> Ele SOLV: <u>25% Methanol in MeOH</u> Final Volume(s) <u>1 mL</u>	Check Out: <u>BP 3.6.17</u> Chemist/Date: Check In: <u>NA</u> Chemist/Date: Balance ID: <u>HAMS-8</u>
--------------------------------	--------------------------------	--------------------------------	--	---

Comments: Assume 1 g = 1 mL

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-10.qld

Last Altered: Tuesday, March 07, 2017 10:59:37 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:59:48 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: B7C0017-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170306G1_10, Date: 06-Mar-2017, Time: 17:17:56

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.309e0	6.086e3		0.125	2.97		
2	4 PFOA	413 > 368.7	2.102e2	2.394e4		0.125	4.27		
3	6 PFOS	499 > 79.9		6.807e3		0.125			
4	7 13C3-PFBS	302.0 > 98.8	6.086e3	1.271e4	0.410	0.125	2.98	117	117
5	8 13C4-PFHpA	367.2 > 321.8	1.417e4	1.271e4	1.098	0.125	3.87	102	102
6	9 18O2-PFHxS	403 > 102.6	5.539e3	1.271e4	0.434	0.125	3.99	100	100
7	10 13C2-PFOA	414.9 > 369.7	2.394e4	6.330e3	4.608	0.125	4.27	82.1	82.1
8	11 13C5-PFNA	468.2 > 422.9	6.128e3	8.425e3	0.867	0.125	4.60	83.9	83.9
9	12 13C8-PFOS	507.0 > 79.9	6.807e3	6.861e3	0.958	0.125	4.67	104	104
10	13 13C5-PFHxA	318>272.9	2.929e4	2.929e4	1.000	0.125	3.35	100	100
11	14 13C3-PFHxS	401.9 > 79.9	1.271e4	1.271e4	1.000	0.125	3.99	100	100
12	15 13C8-PFOA	421.3 > 376	6.330e3	6.330e3	1.000	0.125	4.27	100	100
13	16 13C9-PFNA	472.2 > 426.9	8.425e3	8.425e3	1.000	0.125	4.60	100	100
14	17 13C4-PFOS	503.0 > 79.9	6.861e3	6.861e3	1.000	0.125	4.67	100	100
15	18 Total PFBS	299 > 79.7		5.539e3		0.125			
16	20 Total PFOA	413 > 368.7		2.394e4		0.125			
17	21 Total PFOS	499 > 79.9		6.807e3		0.125			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-10.qld

Last Altered: Tuesday, March 07, 2017 10:59:37 AM Pacific Standard Time

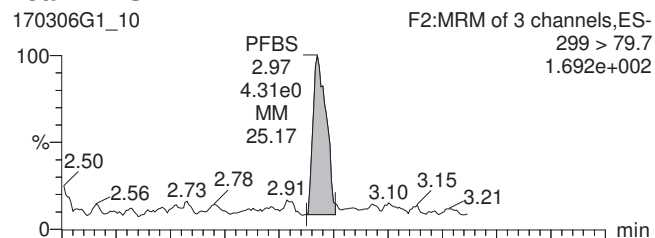
Printed: Tuesday, March 07, 2017 10:59:48 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

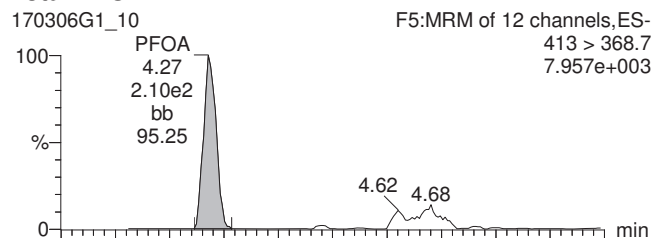
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: B7C0017-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170306G1_10, Date: 06-Mar-2017, Time: 17:17:56, Instrument: , Lab: , User:

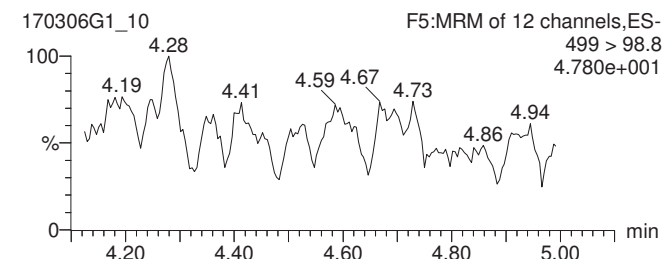
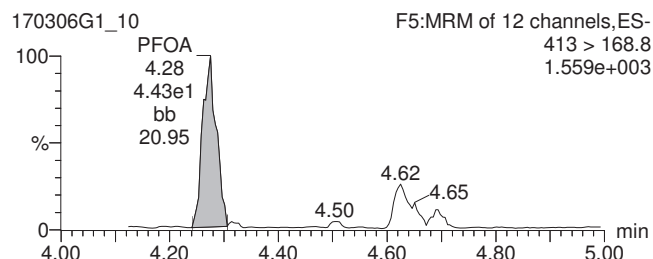
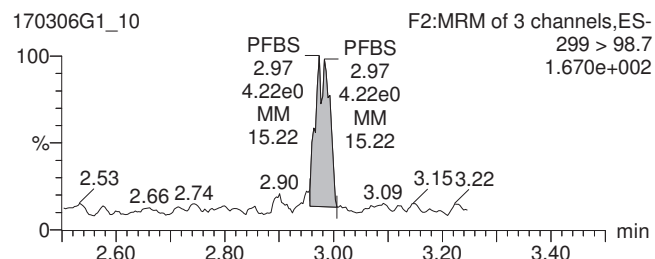
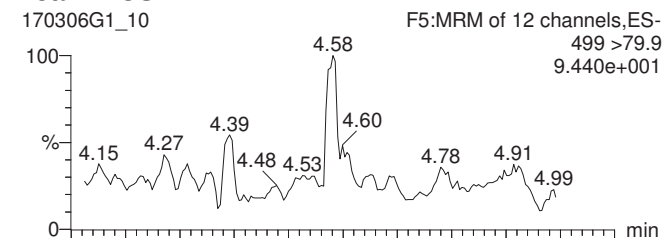
Total PFBS



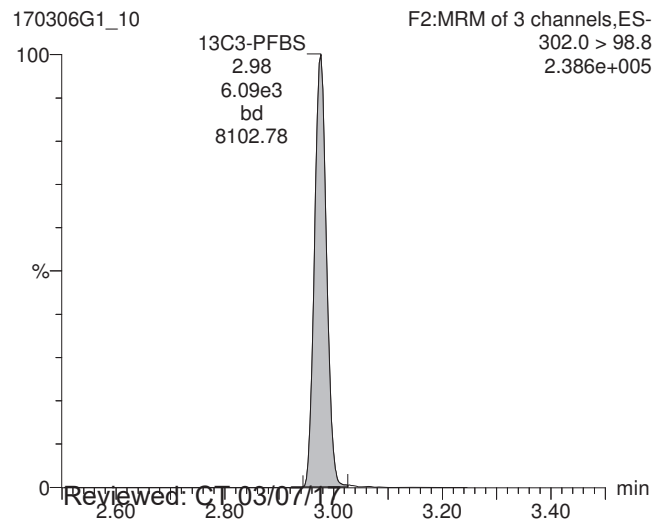
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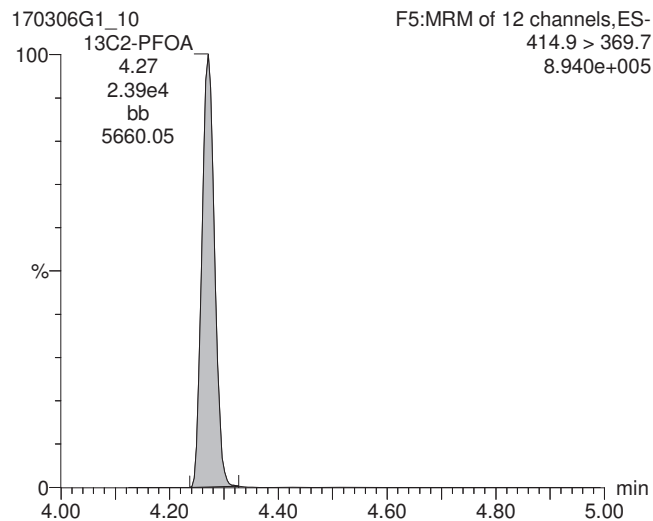
Total PFOS



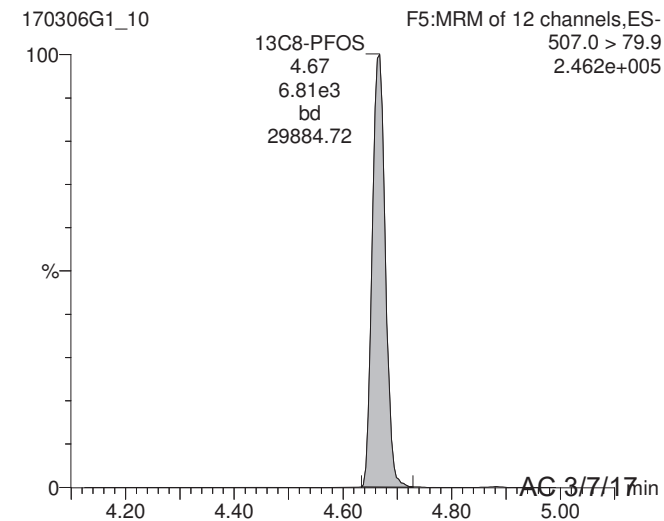
13C3-PFBS



13C2-PFOA



13C8-PFOS

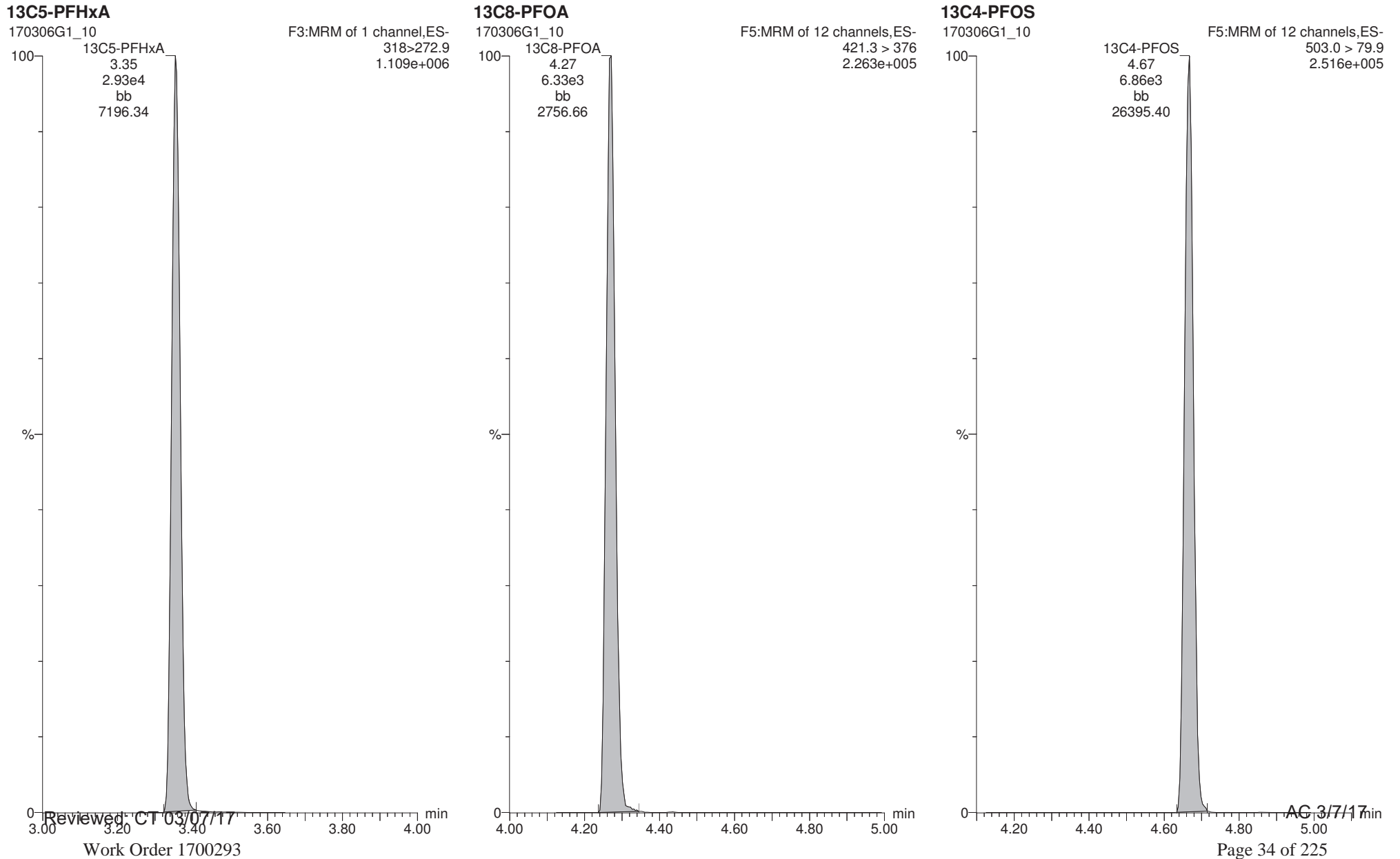


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Last Altered: Tuesday, March 07, 2017 10:59:37 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:59:48 AM Pacific Standard Time

ID: B7C0017-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170306G1_10, Date: 06-Mar-2017, Time: 17:17:56, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-6.qld

Last Altered: Tuesday, March 07, 2017 10:54:44 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:56:07 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: B7C0017-BS1 OPR 0.125, Description: OPR, Name: 170306G1_6, Date: 06-Mar-2017, Time: 16:27:44

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.084e4	5.394e3		0.125	3.05	84.2	105
2	4 PFOA	413 > 368.7	1.772e4	2.616e4		0.125	4.32	83.5	104
3	6 PFOS	499 >79.9	2.263e3	6.031e3		0.125	4.70	70.4	88.0
4	7 13C3-PFBS	302.0 > 98.8	5.394e3	1.242e4	0.410	0.125	3.05	106	106
5	8 13C4-PFHxA	367.2 > 321.8	1.426e4	1.242e4	1.098	0.125	3.93	105	105
6	9 18O2-PFHxS	403 > 102.6	5.249e3	1.242e4	0.434	0.125	4.04	97.3	97.3
7	10 13C2-PFOA	414.9 > 369.7	2.616e4	6.394e3	4.608	0.125	4.32	88.8	88.8
8	11 13C5-PFNA	468.2 > 422.9	5.699e3	8.095e3	0.867	0.125	4.64	81.2	81.2
9	12 13C8-PFOS	507.0 > 79.9	6.031e3	6.852e3	0.958	0.125	4.70	91.8	91.8
10	13 13C5-PFHxA	318>272.9	2.591e4	2.591e4	1.000	0.125	3.43	100	100
11	14 13C3-PFHxS	401.9 > 79.9	1.242e4	1.242e4	1.000	0.125	4.04	100	100
12	15 13C8-PFOA	421.3 > 376	6.394e3	6.394e3	1.000	0.125	4.32	100	100
13	16 13C9-PFNA	472.2 > 426.9	8.095e3	8.095e3	1.000	0.125	4.64	100	100
14	17 13C4-PFOS	503.0 > 79.9	6.852e3	6.852e3	1.000	0.125	4.70	100	100
15	18 Total PFBS	299 > 79.7		5.249e3		0.125		84.2	
16	20 Total PFOA	413 > 368.7		2.616e4		0.125		83.5	
17	21 Total PFOS	499 > 79.9		6.031e3		0.125		70.4	

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-6.qld

Last Altered: Tuesday, March 07, 2017 10:54:44 AM Pacific Standard Time

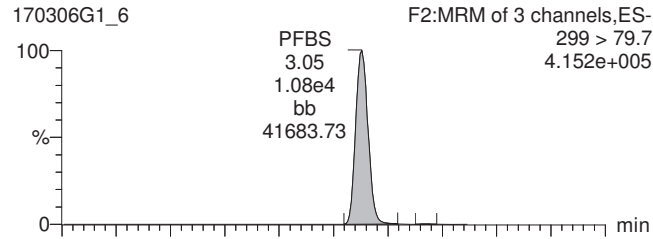
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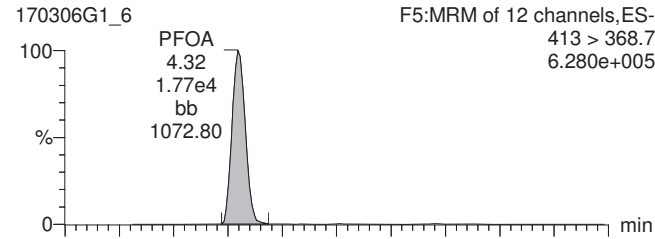
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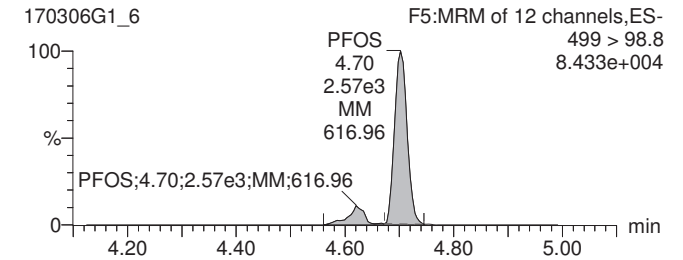
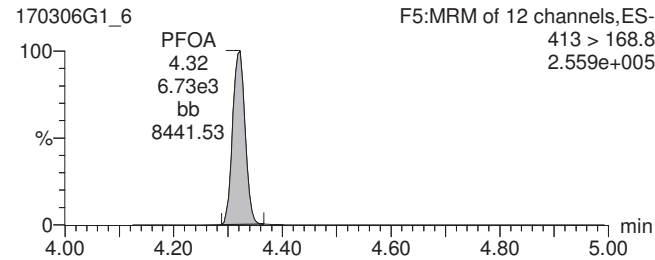
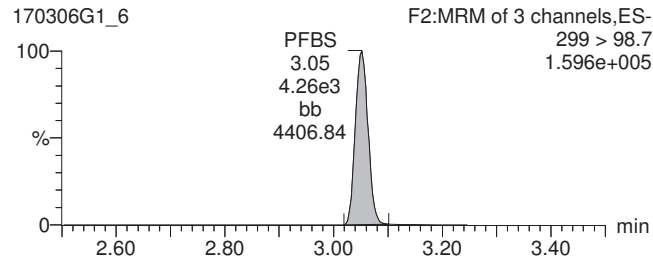
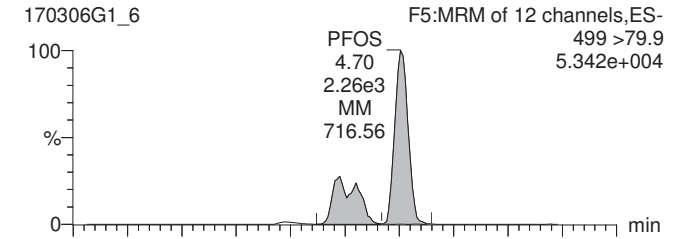
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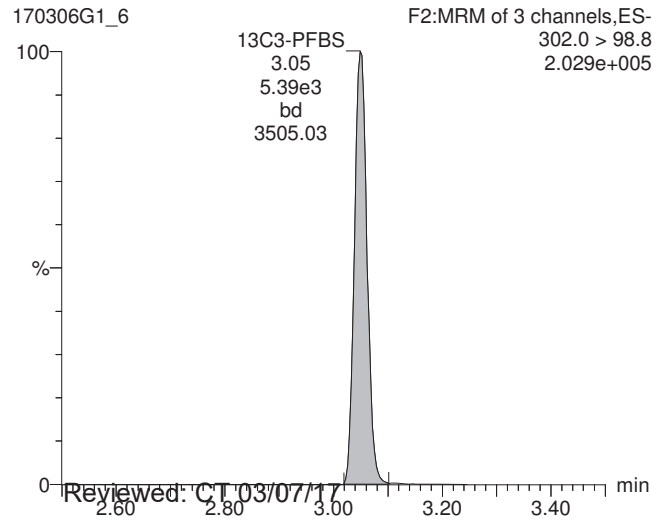
Total PFOA



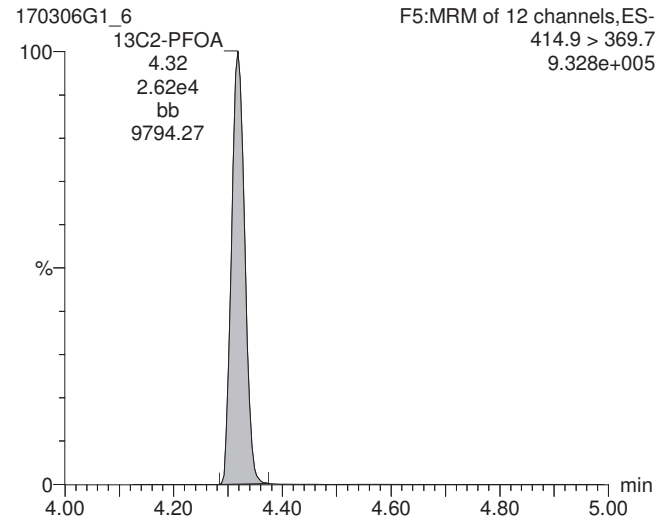
Total PFOS



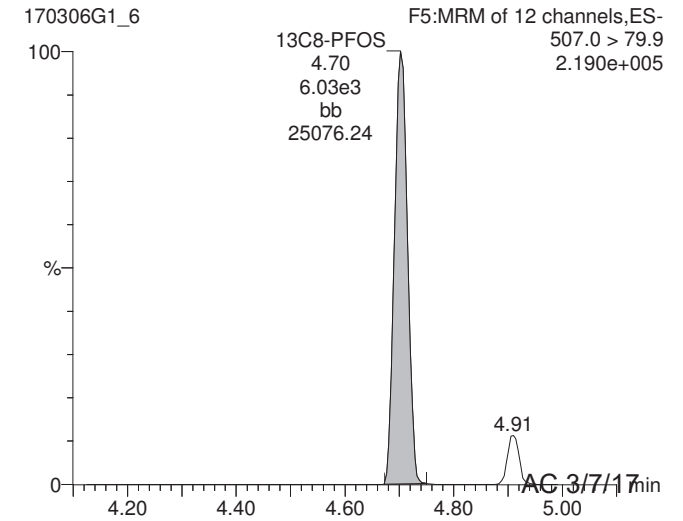
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: CT 03/07/17

Work Order 1700293

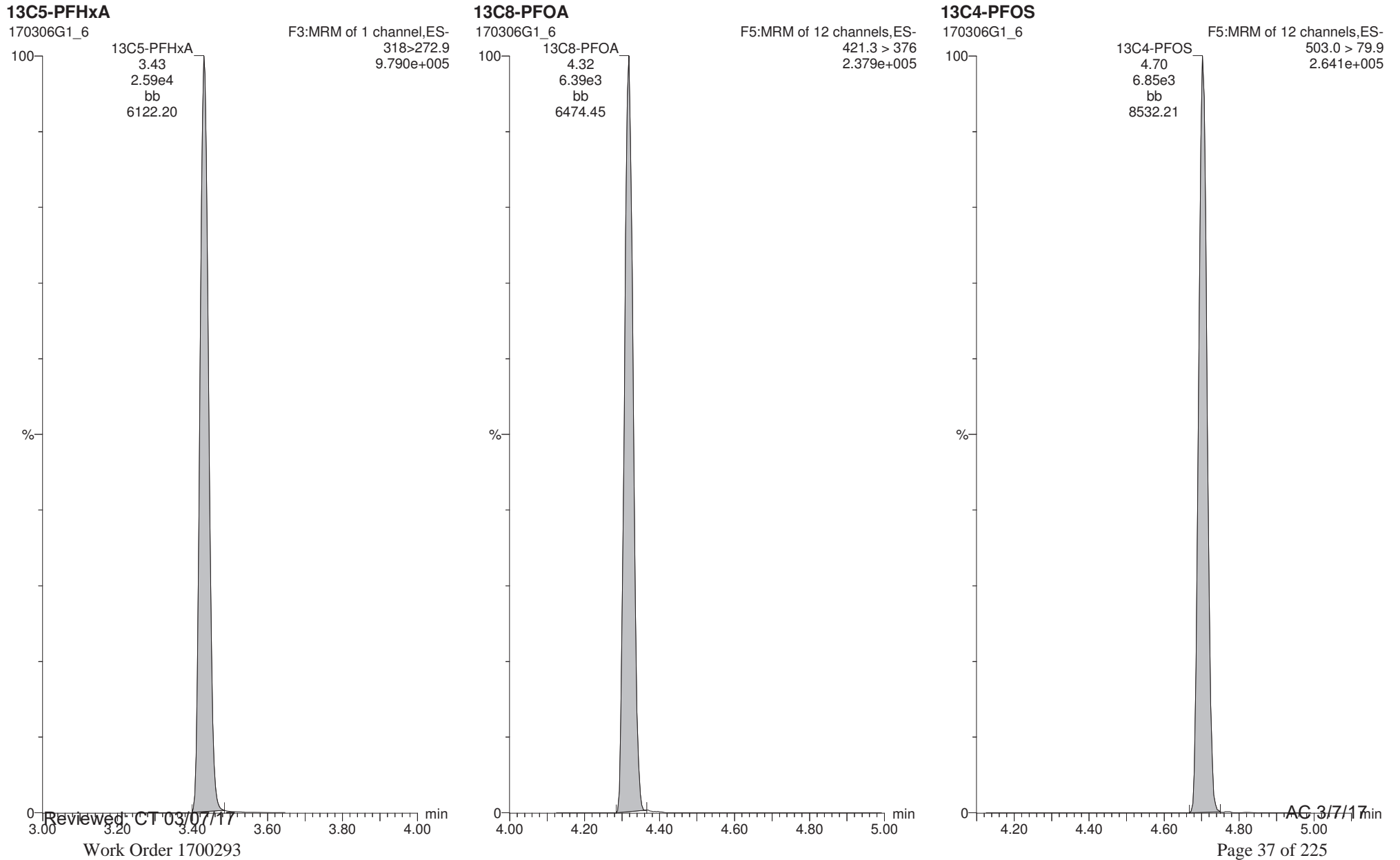
AC 3/7/17

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-6.qld

Last Altered: Tuesday, March 07, 2017 10:54:44 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:56:07 AM Pacific Standard Time

ID: B7C0017-BS1 OPR 0.125, Description: OPR, Name: 170306G1_6, Date: 06-Mar-2017, Time: 16:27:44, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-17.qld

Last Altered: Tuesday, March 07, 2017 11:10:30 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:10:48 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-01 WI-CV-GW02S-0317 0.125, Description: WI-CV-GW02S-0317, Name: 170306G1_17, Date: 06-Mar-2017, Time: 18:45:44

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.430e4	4.898e3		0.131	2.98	362 *	
2	4 PFOA	413 > 368.7	9.116e4	2.464e4		0.131	4.27	443	
3	6 PFOS	499 >79.9	2.638e3	8.655e3		0.131	4.45	54.7	
4	7 13C3-PFBS	302.0 > 98.8	4.898e3	7.756e3	0.410	0.131	2.97	147	154 *
5	8 13C4-PFHpA	367.2 > 321.8	1.241e4	7.756e3	1.098	0.131	3.87	139	146
6	9 18O2-PFHxS	403 > 102.6	3.204e3	7.756e3	0.434	0.131	3.98	90.7	95.1
7	10 13C2-PFOA	414.9 > 369.7	2.464e4	6.799e3	4.608	0.131	4.27	75.0	78.6
8	11 13C5-PFNA	468.2 > 422.9	7.150e3	9.347e3	0.867	0.131	4.61	84.1	88.2
9	12 13C8-PFOS	507.0 > 79.9	8.655e3	9.612e3	0.958	0.131	4.67	89.6	94.0
10	13 13C5-PFHxA	318>272.9	2.090e4	2.090e4	1.000	0.131	3.35	95.4	100
11	14 13C3-PFHxS	401.9 > 79.9	7.756e3	7.756e3	1.000	0.131	3.98	95.4	100
12	15 13C8-PFOA	421.3 > 376	6.799e3	6.799e3	1.000	0.131	4.27	95.4	100
13	16 13C9-PFNA	472.2 > 426.9	9.347e3	9.347e3	1.000	0.131	4.60	95.4	100
14	17 13C4-PFOS	503.0 > 79.9	9.612e3	9.612e3	1.000	0.131	4.67	95.4	100
15	18 Total PFBS	299 > 79.7		3.204e3		0.131		375	
16	20 Total PFOA	413 > 368.7		2.464e4		0.131		571	
17	21 Total PFOS	499 > 79.9		8.655e3		0.131		54.7	

*See dilution

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-17.qld

Last Altered: Tuesday, March 07, 2017 11:10:30 AM Pacific Standard Time

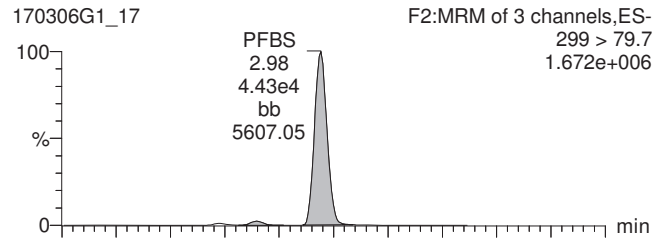
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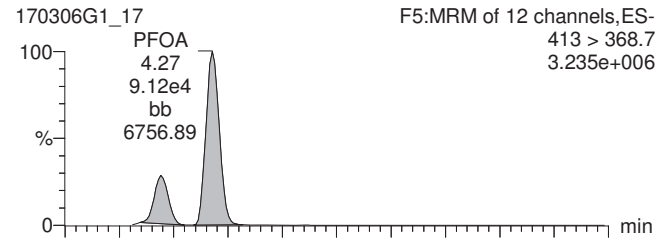
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ID: 1700293-01 WI-CV-GW02S-0317 0.125, Description: WI-CV-GW02S-0317, Name: 170306G1_17, Date: 06-Mar-2017, Time: 18:45:44, Instrument: , Lab: , User:

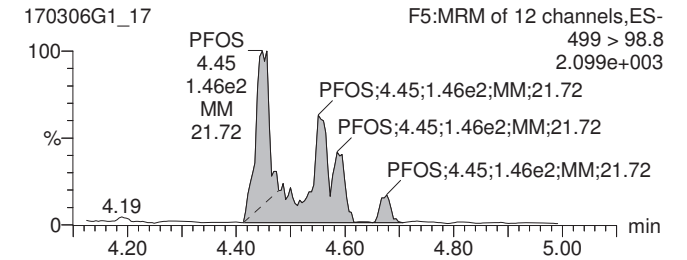
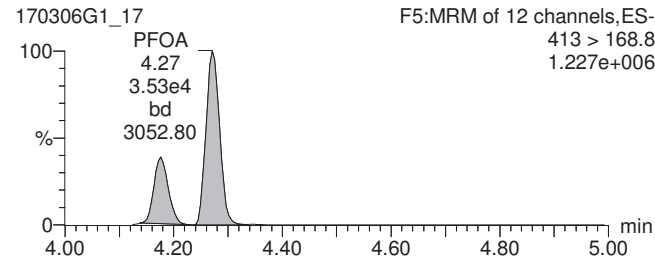
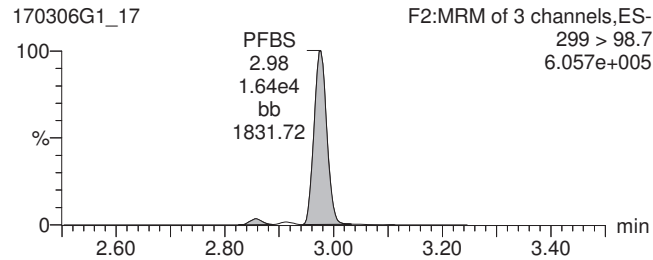
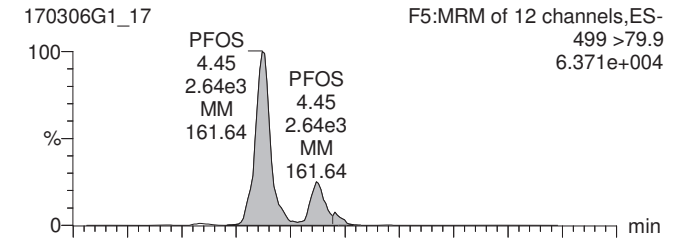
Total PFBS



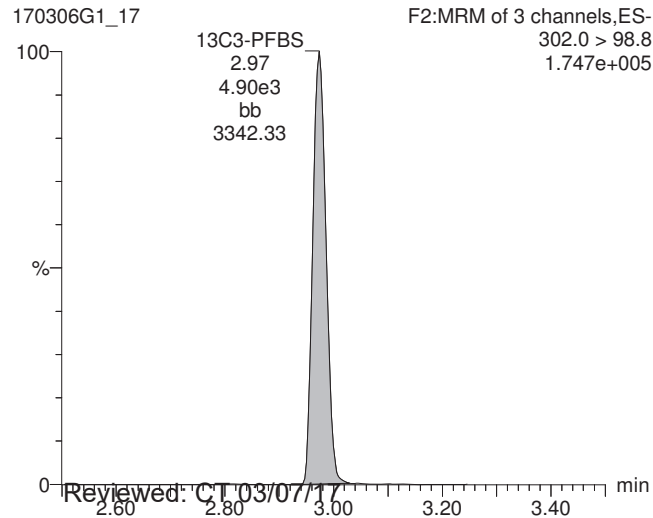
Total PFOA



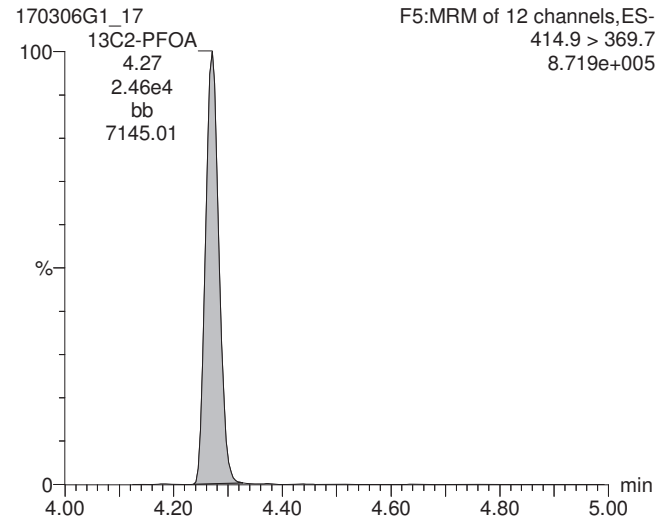
Total PFOS



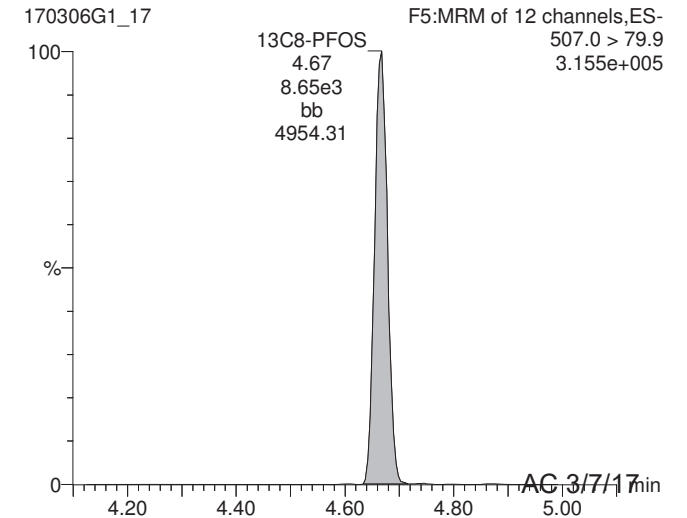
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: C:\03\07\17

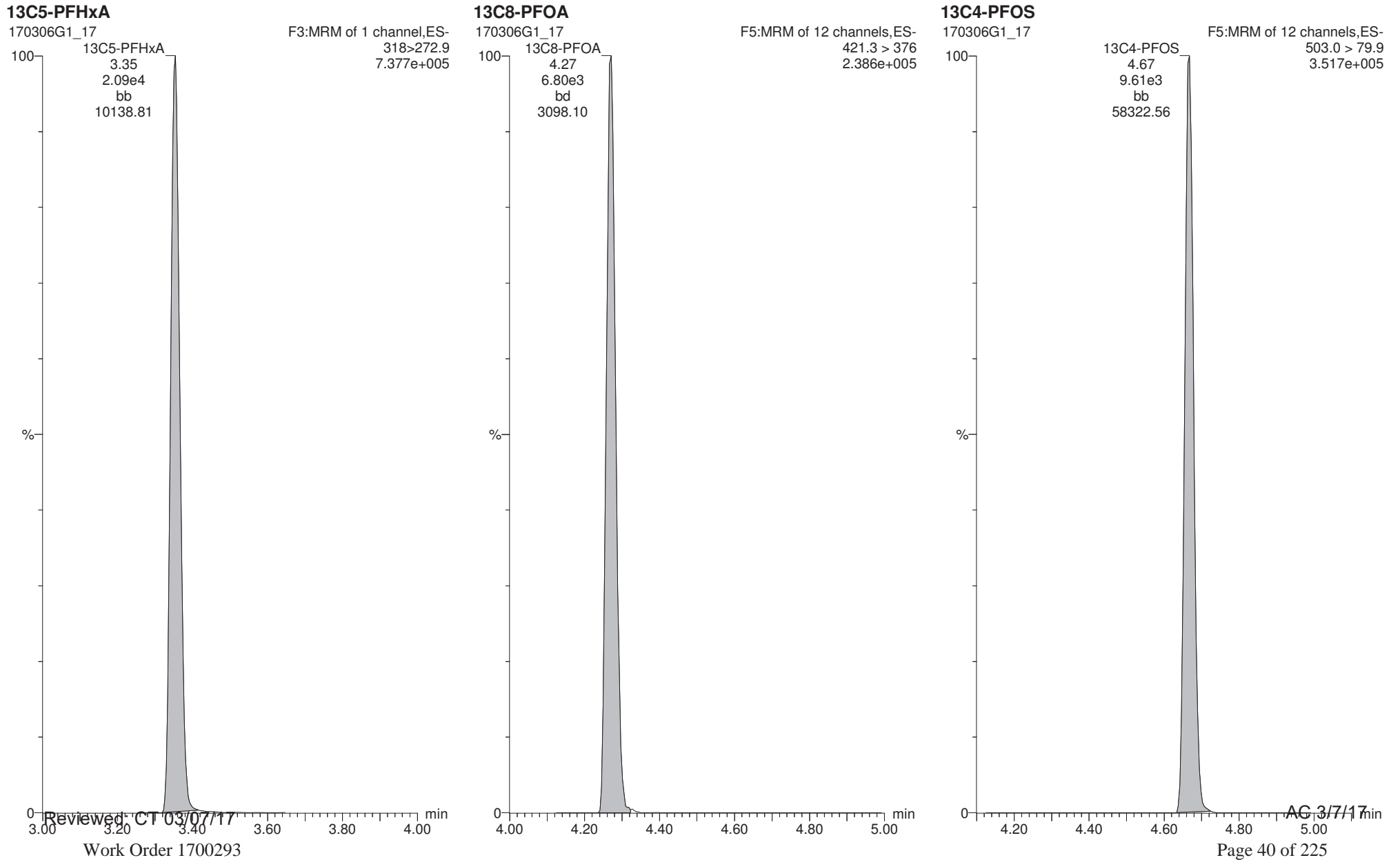
AC 3/7/17

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-17.qld

Last Altered: Tuesday, March 07, 2017 11:10:30 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:10:48 AM Pacific Standard Time

ID: 1700293-01 WI-CV-GW02S-0317 0.125, Description: WI-CV-GW02S-0317, Name: 170306G1_17, Date: 06-Mar-2017, Time: 18:45:44, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\New folder\170307G1-5.qld

Last Altered: Tuesday, March 07, 2017 1:38:05 PM Pacific Standard Time

Printed: Tuesday, March 07, 2017 1:42:23 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-01@10X WI-CV-GW02S-0317 0.125, Description: WI-CV-GW02S-0317, Name: 170307G1_5, Date: 07-Mar-2017, Time: 09:51:58

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	5.243e3	6.462e2		0.131	2.99	325	
2	7 13C3-PFBS	302.0 > 98.8	6.462e2	1.402e3	0.410	0.131	2.99	107	112
3	14 13C3-PFHxS	401.9 > 79.9	1.402e3	1.402e3	1.000	0.131	3.99	95.4	100
4	18 Total PFBS	299 > 79.7		5.616e2		0.131		332	

Dataset: U:\G1.PRO\Results\2017\New folder\170307G1-5.qld

Last Altered: Tuesday, March 07, 2017 1:38:05 PM Pacific Standard Time

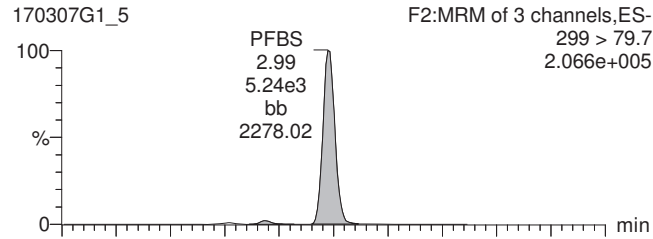
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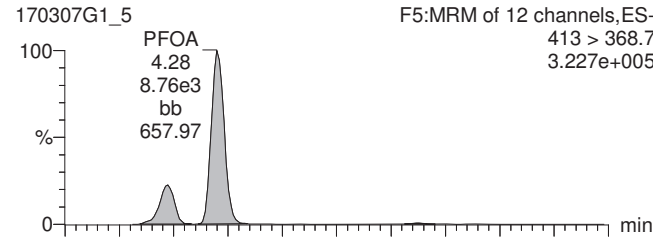
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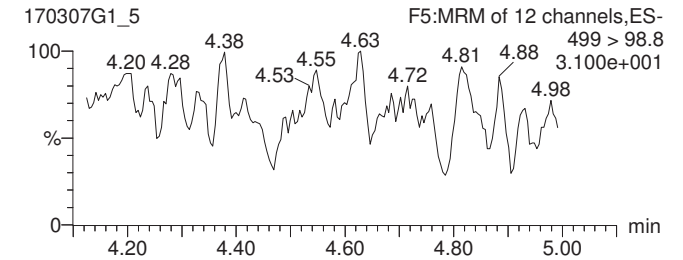
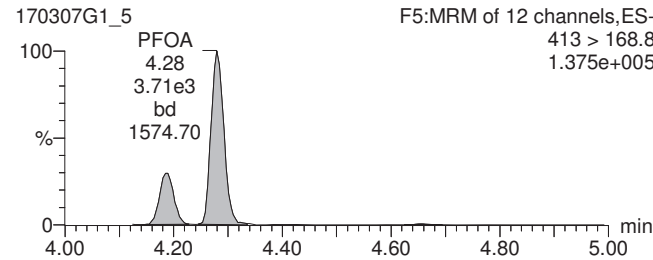
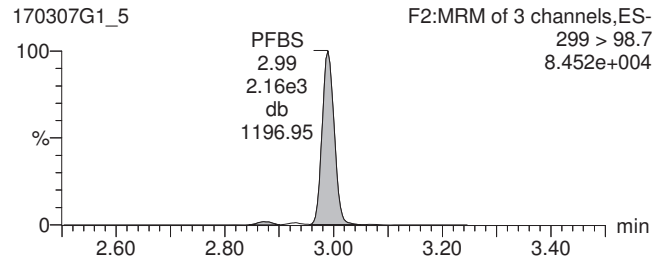
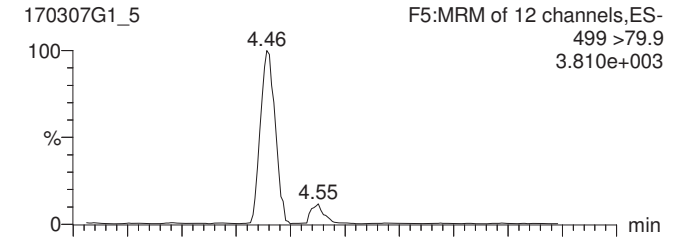
Total PFBS



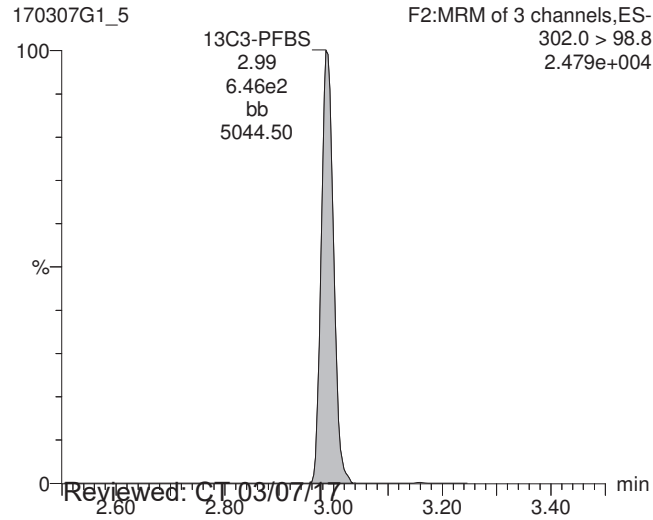
Total PFOA



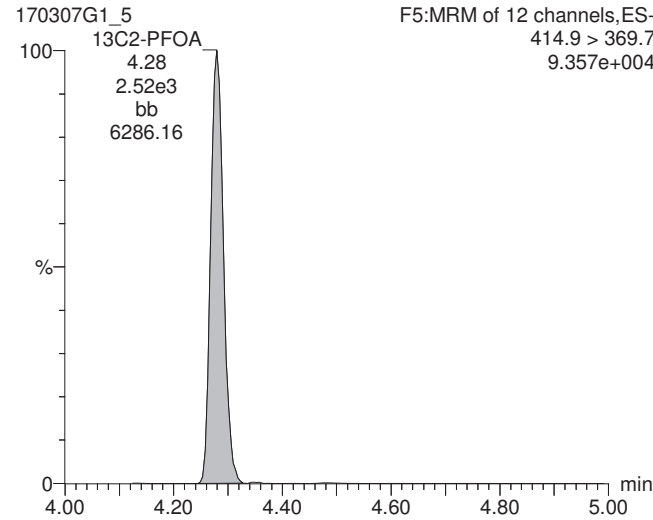
Total PFOS



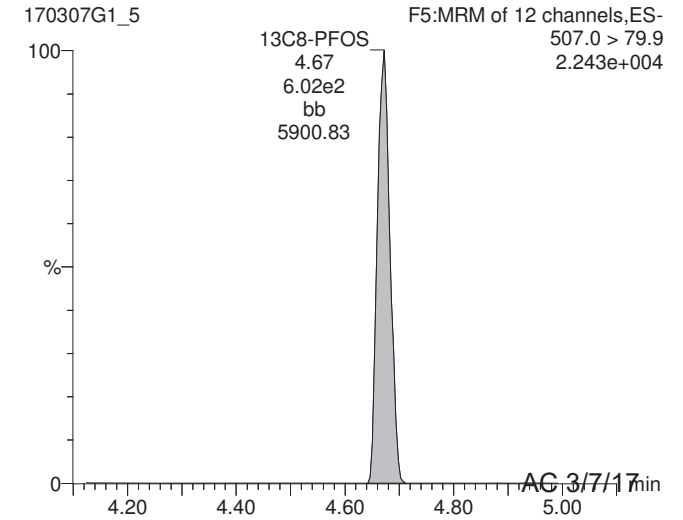
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: C:\03/07/17

Work Order 1700293

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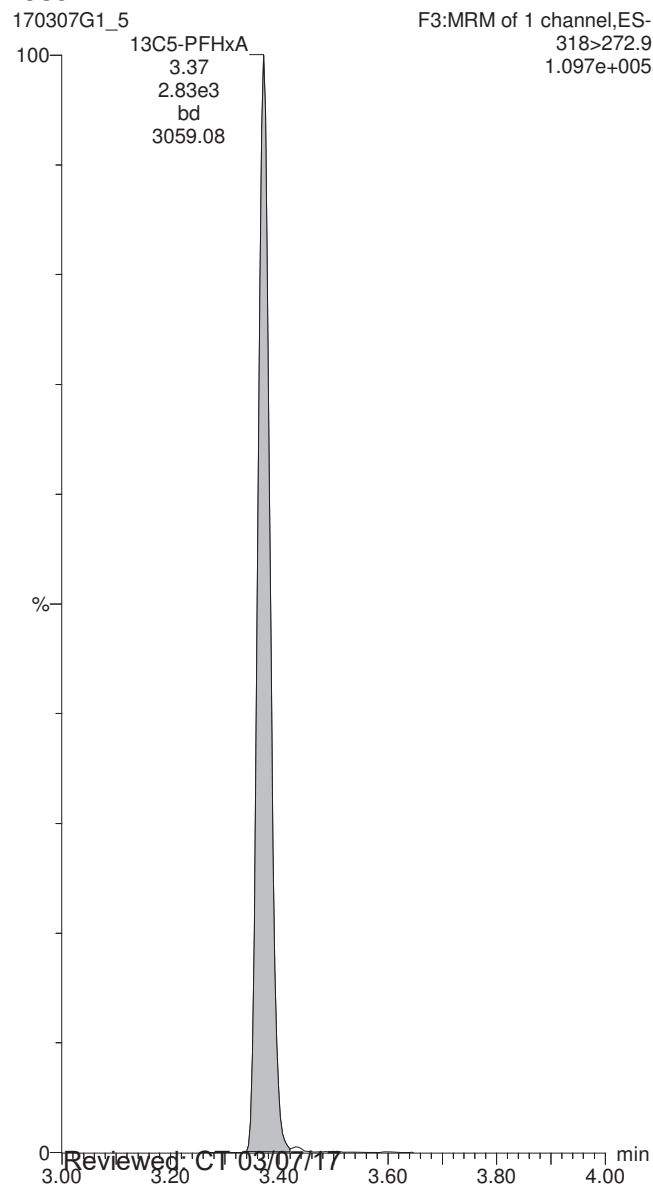
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Printed: Tuesday, March 07, 2017 1:42:23 PM Pacific Standard Time

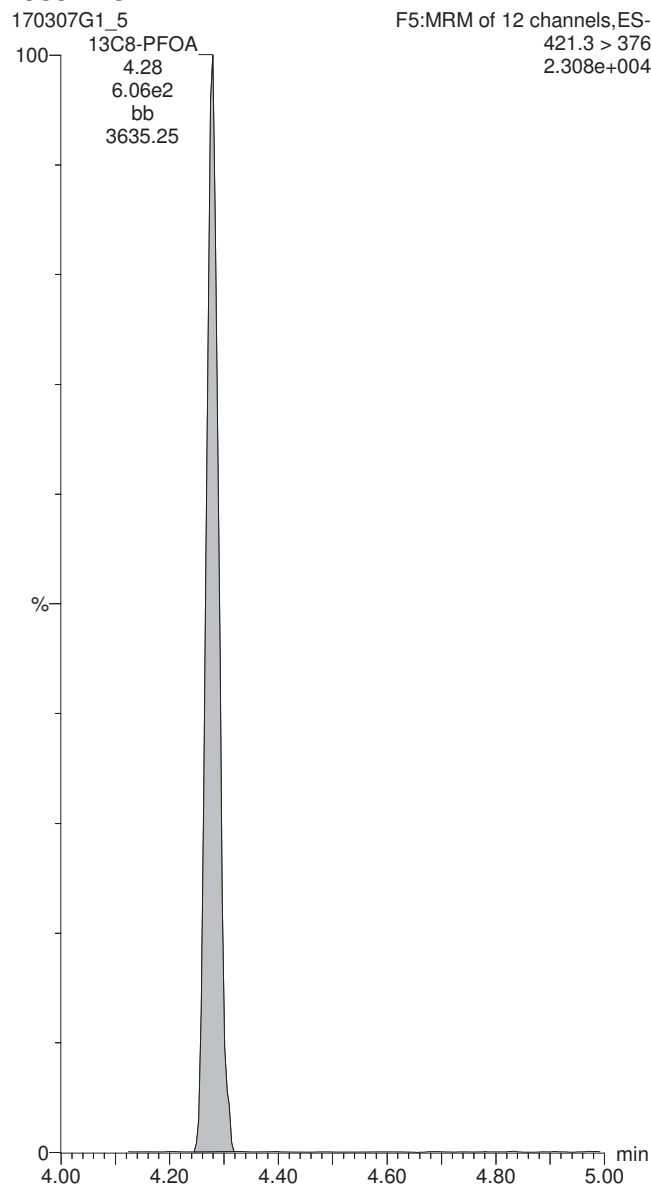
ID: 1700293-01@10X WI-CV-GW02S-0317 0.125, Description: WI-CV-GW02S-0317, Name: 170307G1_5, Date: 07-Mar-2017, Time: 09:51:58, Instrument: , Lab: , User:

13C5-PFHxA

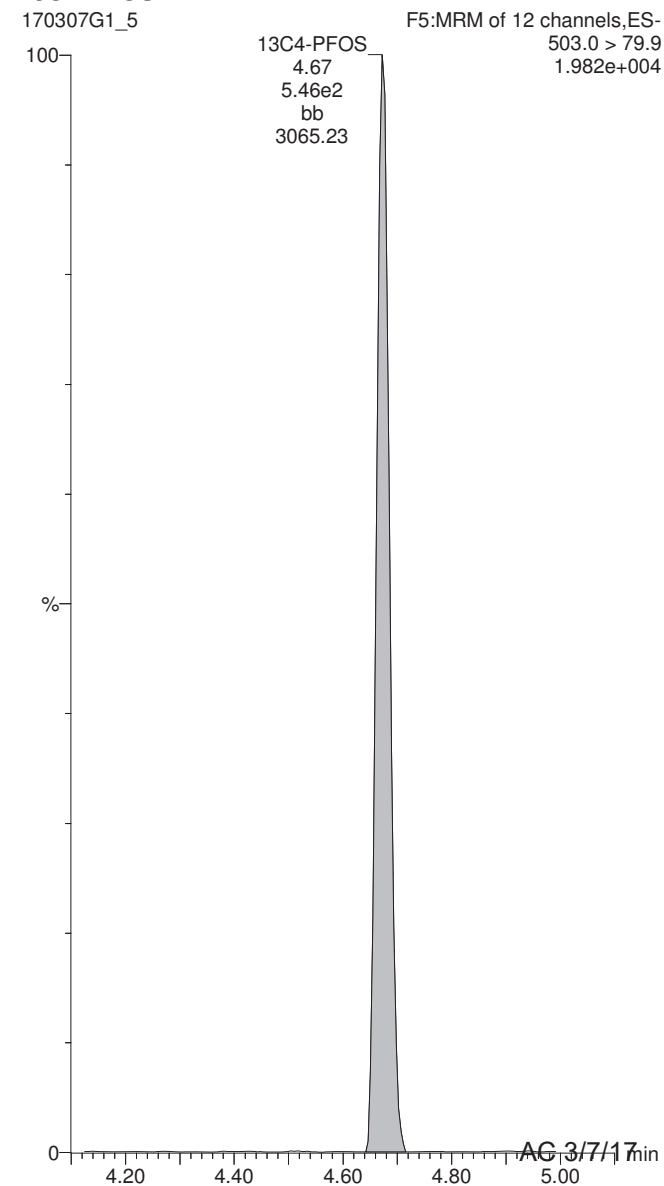


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13C8-PFOA



13C4-PFOS



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Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-18.qld

Last Altered: Tuesday, March 07, 2017 11:16:29 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:16:44 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-02 WI-CV-GW02S/SP-0317 0.125, Description: WI-CV-GW02S/SP-0317, Name: 170306G1_18, Date: 06-Mar-2017, Time: 18:58:16

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.122e4	4.712e3		0.129	2.98	355 *	
2	4 PFOA	413 > 368.7	8.348e4	2.313e4		0.129	4.27	438	
3	6 PFOS	499 >79.9	2.265e3	7.785e3		0.129	4.45	53.0	
4	7 13C3-PFBS	302.0 > 98.8	4.712e3	7.471e3	0.410	0.129	2.97	149	154 *
5	8 13C4-PFHpA	367.2 > 321.8	1.189e4	7.471e3	1.098	0.129	3.87	140	145
6	9 18O2-PFHxS	403 > 102.6	3.061e3	7.471e3	0.434	0.129	3.99	91.3	94.3
7	10 13C2-PFOA	414.9 > 369.7	2.313e4	5.811e3	4.608	0.129	4.27	83.6	86.4
8	11 13C5-PFNA	468.2 > 422.9	6.931e3	9.651e3	0.867	0.129	4.61	80.2	82.8
9	12 13C8-PFOS	507.0 > 79.9	7.785e3	8.986e3	0.958	0.129	4.67	87.5	90.4
10	13 13C5-PFHxA	318>272.9	2.046e4	2.046e4	1.000	0.129	3.35	96.8	100
11	14 13C3-PFHxS	401.9 > 79.9	7.471e3	7.471e3	1.000	0.129	3.99	96.8	100
12	15 13C8-PFOA	421.3 > 376	5.811e3	5.811e3	1.000	0.129	4.27	96.8	100
13	16 13C9-PFNA	472.2 > 426.9	9.651e3	9.651e3	1.000	0.129	4.61	96.8	100
14	17 13C4-PFOS	503.0 > 79.9	8.986e3	8.986e3	1.000	0.129	4.67	96.8	100
15	18 Total PFBS	299 > 79.7		3.061e3		0.129		376	
16	20 Total PFOA	413 > 368.7		2.313e4		0.129		564	
17	21 Total PFOS	499 > 79.9		7.785e3		0.129		53.0	

See dilution.

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-18.qld

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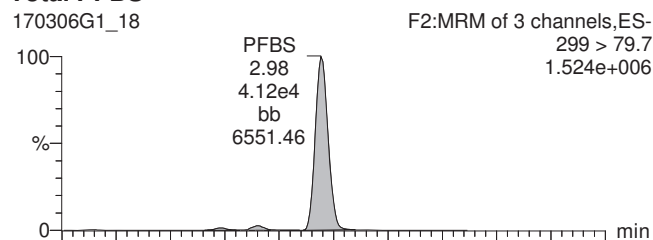
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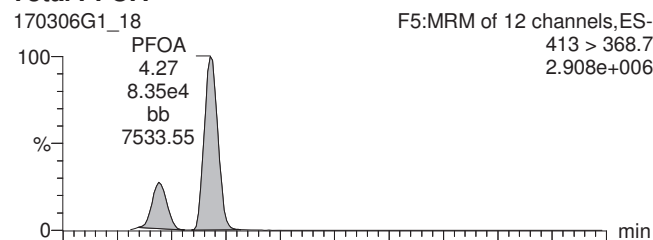
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ID: 1700293-02 WI-CV-GW02S/SP-0317 0.125, Description: WI-CV-GW02S/SP-0317, Name: 170306G1_18, Date: 06-Mar-2017, Time: 18:58:16, Instrument: , Lab: , User:

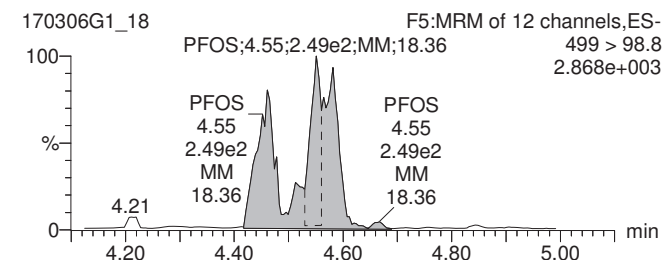
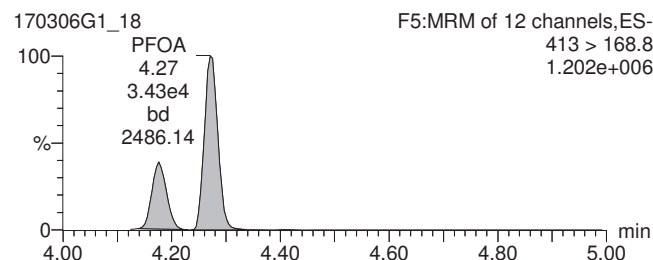
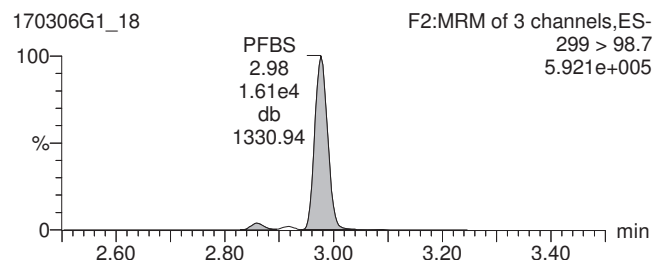
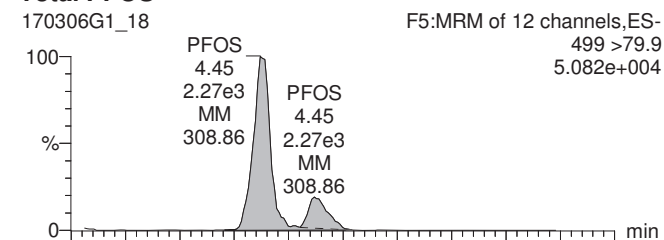
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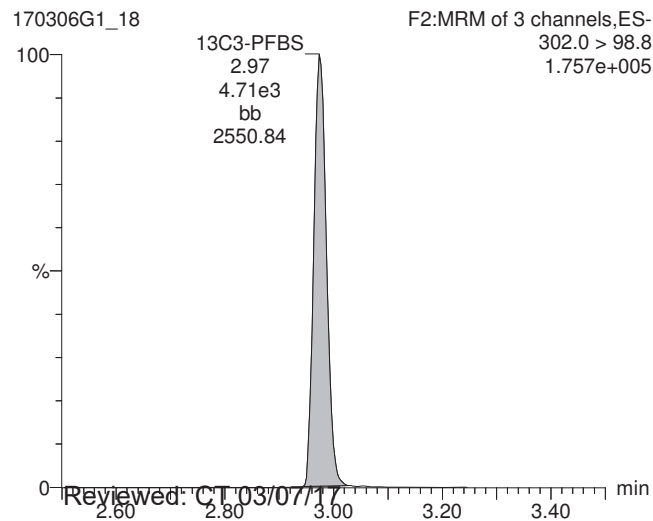
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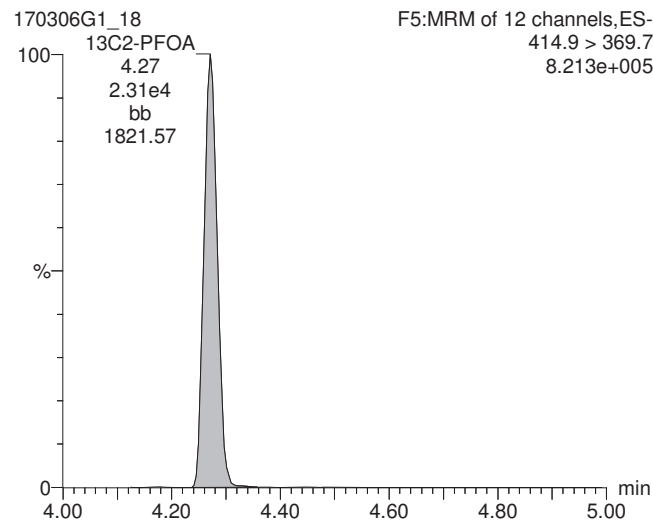
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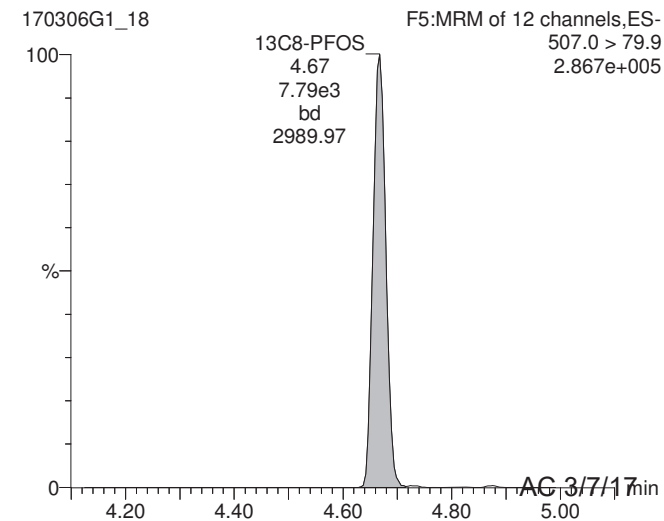
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: CT 03/07/17

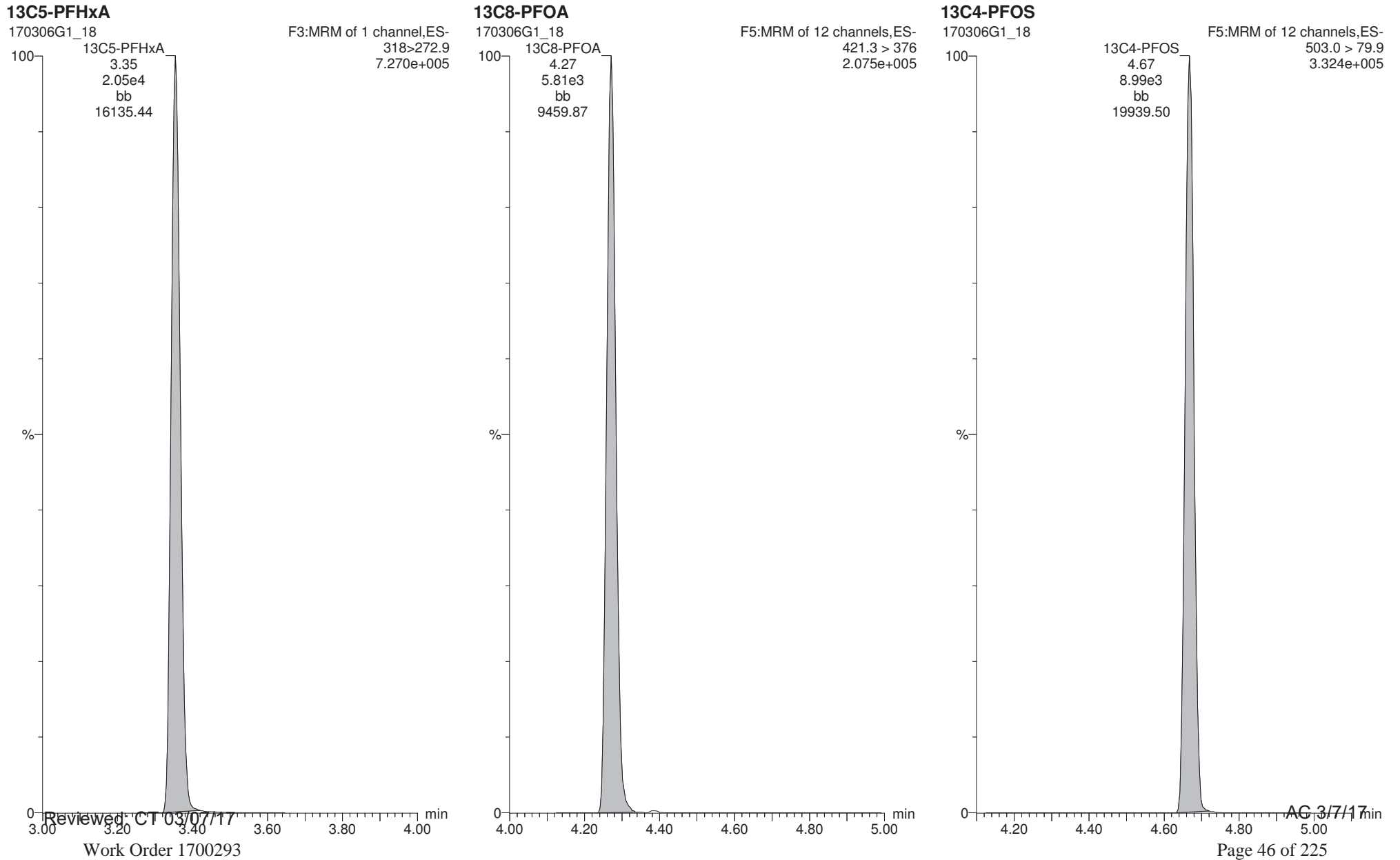
AC 3/7/17

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ID: 1700293-02 WI-CV-GW02S/SP-0317 0.125, Description: WI-CV-GW02S/SP-0317, Name: 170306G1_18, Date: 06-Mar-2017, Time: 18:58:16, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\New folder\170307G1-6.qld

Last Altered: Tuesday, March 07, 2017 1:57:13 PM Pacific Standard Time

Printed: Tuesday, March 07, 2017 2:00:17 PM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-02@10X WI-CV-GW02S/SP-0317 0.125, Description: WI-CV-GW02S/SP-0317, Name: 170307G1_6, Date: 07-Mar-2017, Time: 10:04:33

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	5.510e3	6.462e2		0.129	2.99	346	
2	7 13C3-PFBS	302.0 > 98.8	6.462e2	1.407e3	0.410	0.129	2.99	108	112
3	14 13C3-PFHxS	401.9 > 79.9	1.407e3	1.407e3	1.000	0.129	4.00	96.8	100
4	18 Total PFBS	299 > 79.7		5.759e2		0.129		357	

Dataset: U:\G1.PRO\Results\2017\New folder\170307G1-6.qld

Last Altered: Tuesday, March 07, 2017 1:57:13 PM Pacific Standard Time

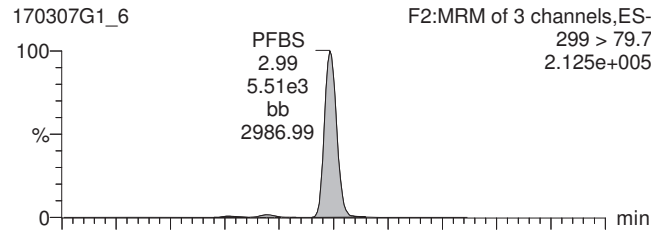
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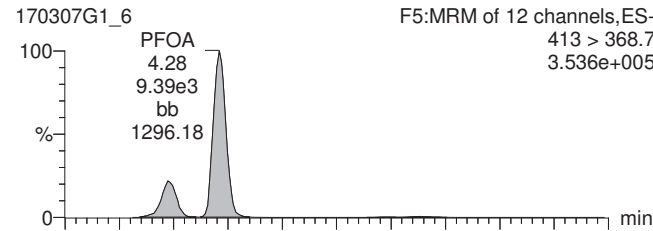
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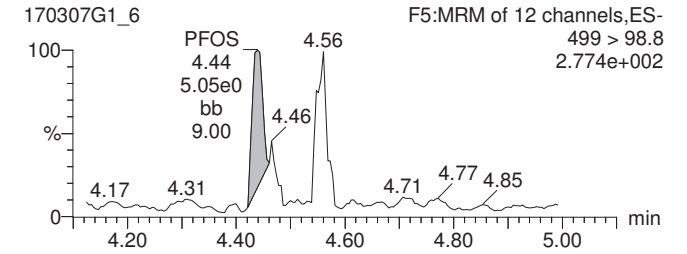
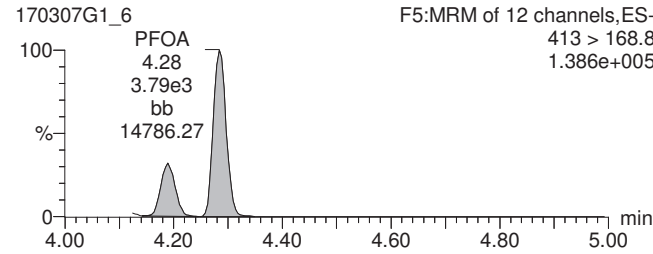
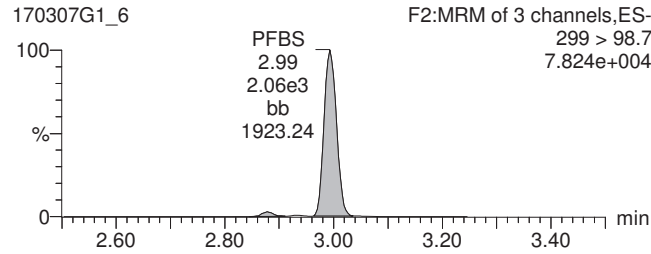
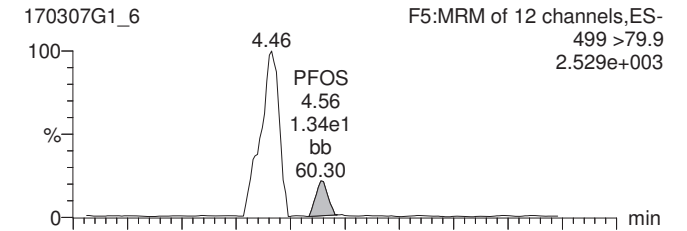
Total PFBS



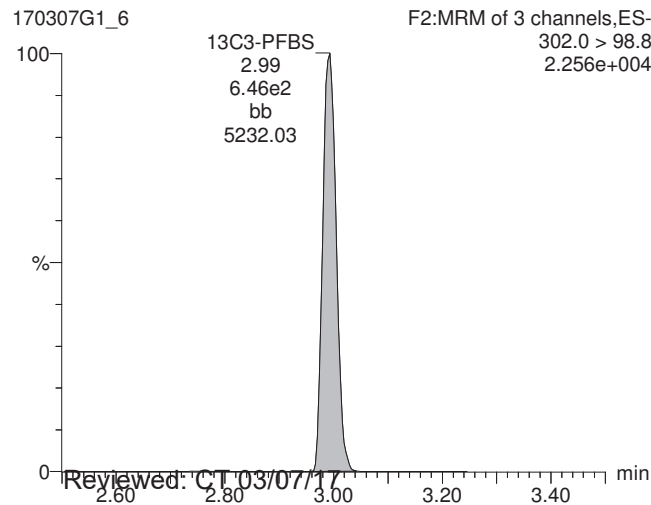
Total PFOA



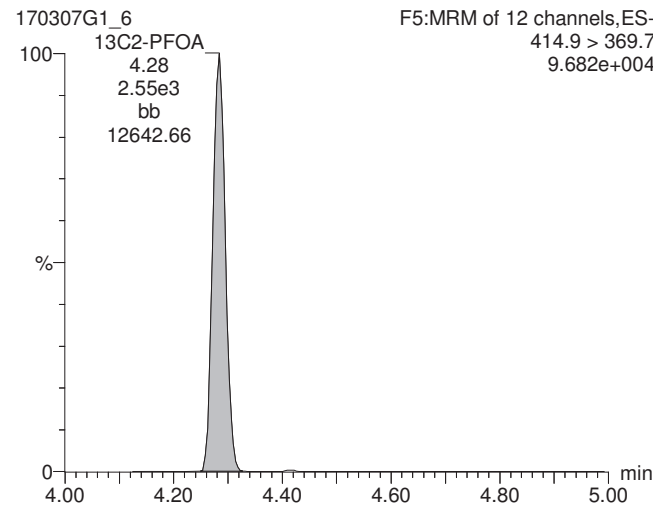
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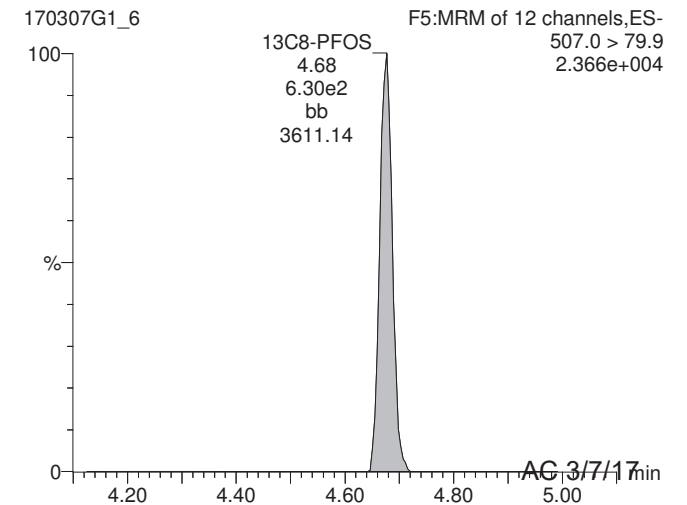
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: C:\03\07\17

Work Order 1700293

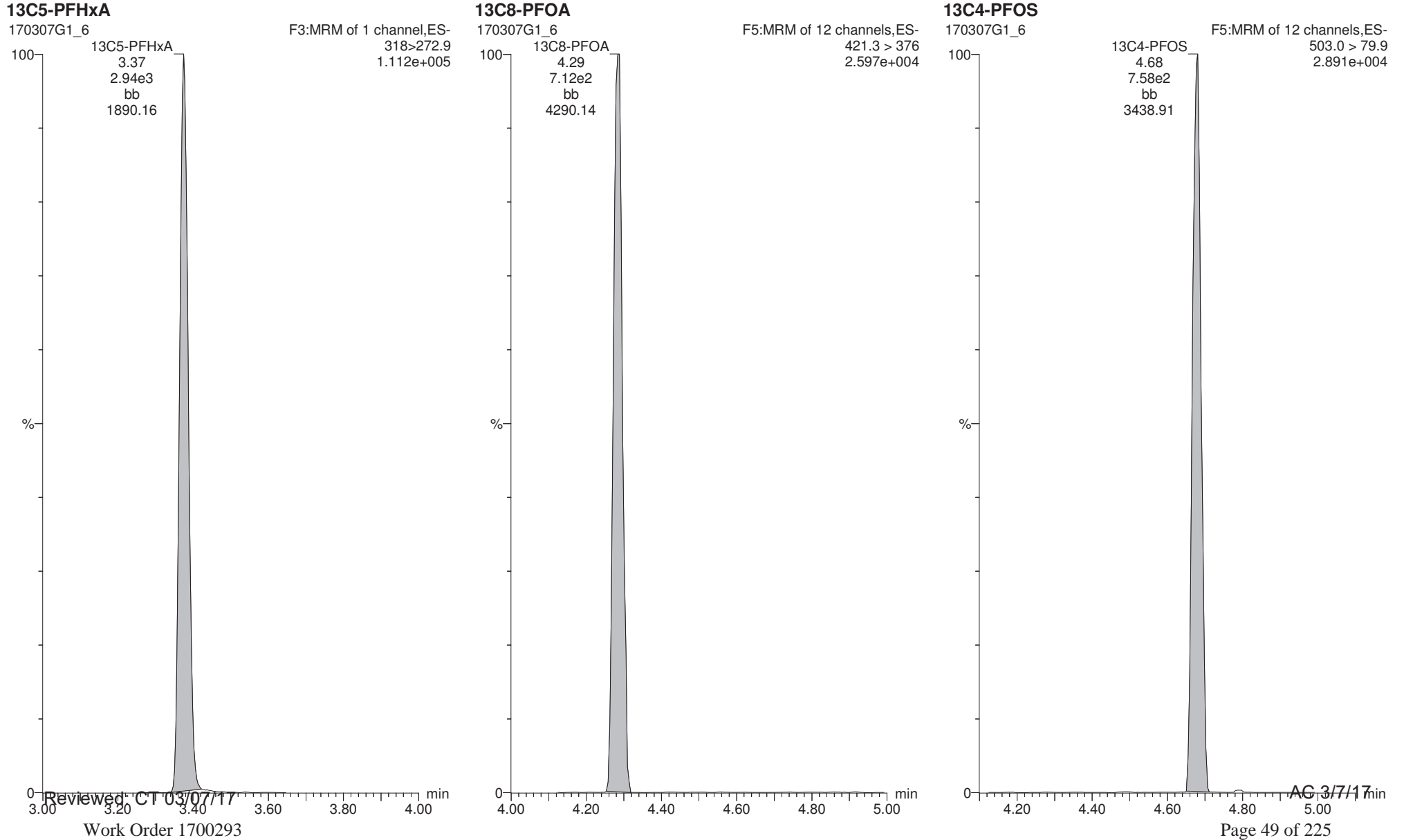
AG 3/7/17

Dataset: U:\G1.PRO\Results\2017\New folder\170307G1-6.qld

Last Altered: Tuesday, March 07, 2017 1:57:13 PM Pacific Standard Time

Printed: Tuesday, March 07, 2017 2:00:17 PM Pacific Standard Time

ID: 1700293-02@10X WI-CV-GW02S/SP-0317 0.125, Description: WI-CV-GW02S/SP-0317, Name: 170307G1_6, Date: 07-Mar-2017, Time: 10:04:33, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-19.qld

Last Altered: Tuesday, March 07, 2017 11:18:57 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:19:19 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-03 WI-CV-GW04S-0317 0.125, Description: WI-CV-GW04S-0317, Name: 170306G1_19, Date: 06-Mar-2017, Time: 19:10:50

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.305e3		0.128			
2	4 PFOA	413 > 368.7	2.781e2	2.808e4		0.128	4.28		
3	6 PFOS	499 > 79.9		7.346e3		0.128			
4	7 13C3-PFBS	302.0 > 98.8	6.305e3	1.558e4	0.410	0.128	2.98	96.6	98.7
5	8 13C4-PFHpA	367.2 > 321.8	1.428e4	1.558e4	1.098	0.128	3.87	81.7	83.5
6	9 18O2-PFHxS	403 > 102.6	6.704e3	1.558e4	0.434	0.128	3.99	97.0	99.1
7	10 13C2-PFOA	414.9 > 369.7	2.808e4	7.327e3	4.608	0.128	4.27	81.4	83.2
8	11 13C5-PFNA	468.2 > 422.9	7.326e3	8.542e3	0.867	0.128	4.61	96.8	98.9
9	12 13C8-PFOS	507.0 > 79.9	7.346e3	8.088e3	0.958	0.128	4.67	92.7	94.8
10	13 13C5-PFHxA	318>272.9	2.723e4	2.723e4	1.000	0.128	3.35	97.8	100
11	14 13C3-PFHxS	401.9 > 79.9	1.558e4	1.558e4	1.000	0.128	3.99	97.8	100
12	15 13C8-PFOA	421.3 > 376	7.327e3	7.327e3	1.000	0.128	4.28	97.8	100
13	16 13C9-PFNA	472.2 > 426.9	8.542e3	8.542e3	1.000	0.128	4.61	97.8	100
14	17 13C4-PFOS	503.0 > 79.9	8.088e3	8.088e3	1.000	0.128	4.67	97.8	100
15	18 Total PFBS	299 > 79.7		6.704e3		0.128			
16	20 Total PFOA	413 > 368.7		2.808e4		0.128			
17	21 Total PFOS	499 > 79.9		7.346e3		0.128			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-19.qld

Last Altered: Tuesday, March 07, 2017 11:18:57 AM Pacific Standard Time

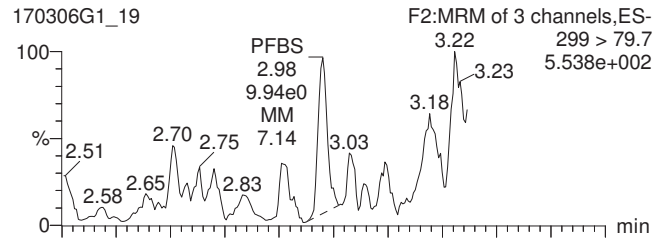
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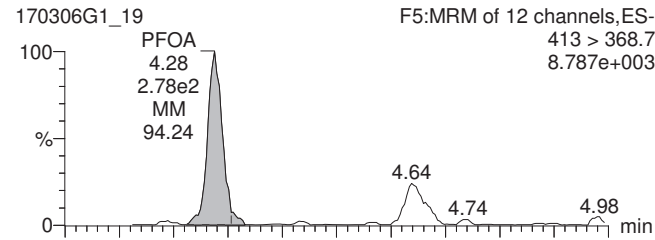
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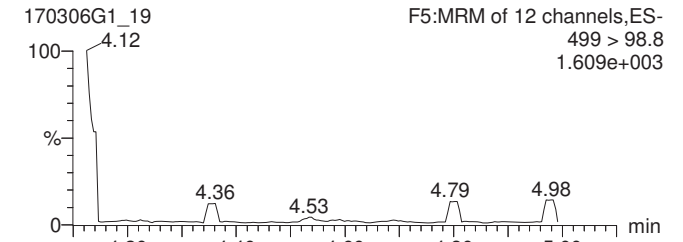
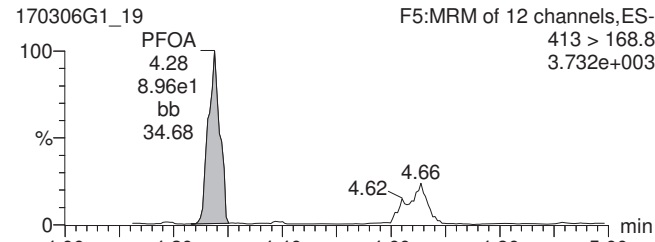
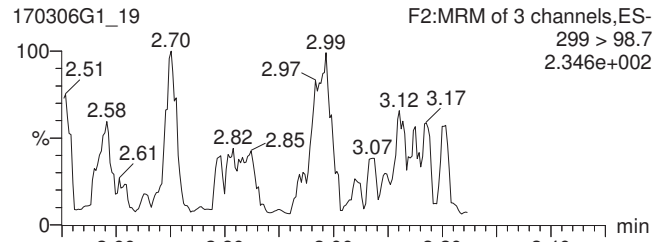
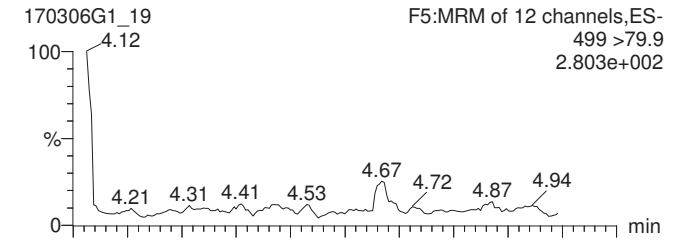
Total PFBS



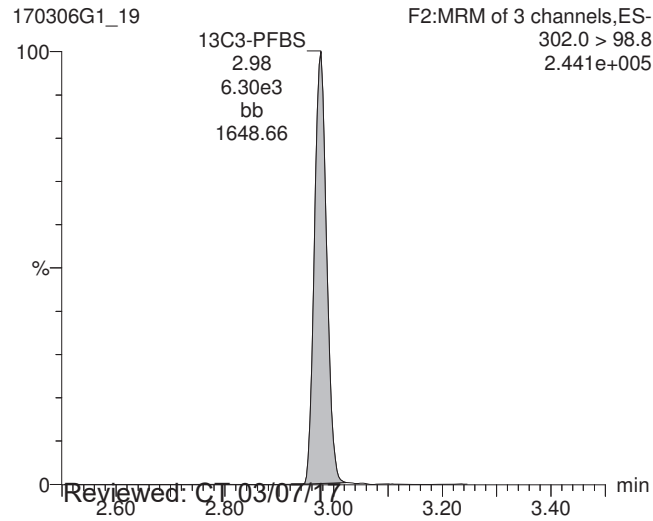
Total PFOA



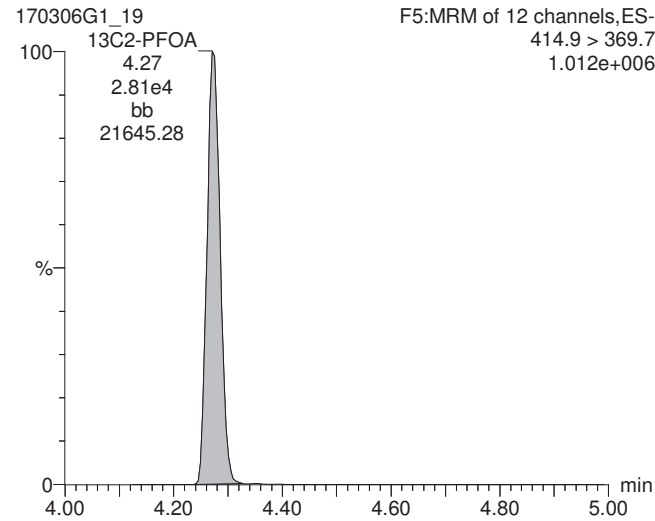
Total PFOS



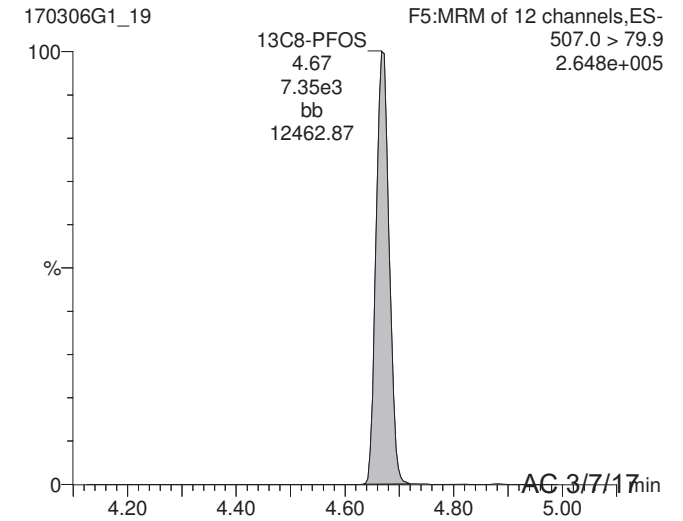
13C3-PFBS



13C2-PFOA



13C8-PFOS

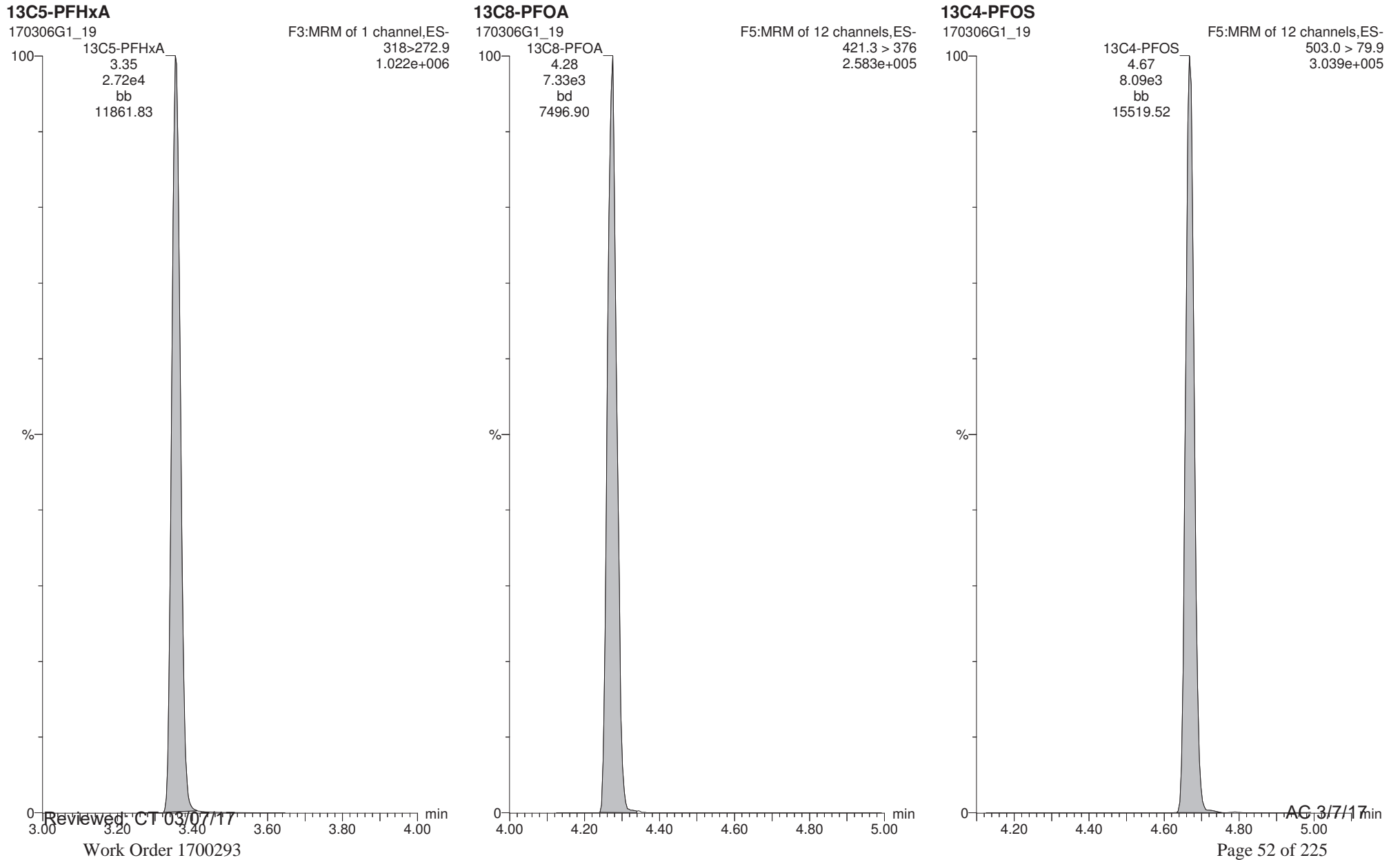


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Printed: Tuesday, March 07, 2017 11:19:19 AM Pacific Standard Time

ID: 1700293-03 WI-CV-GW04S-0317 0.125, Description: WI-CV-GW04S-0317, Name: 170306G1_19, Date: 06-Mar-2017, Time: 19:10:50, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-20.qld

Last Altered: Tuesday, March 07, 2017 11:20:25 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:20:52 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-04 WI-CV-GW04S/SP-0317 0.125, Description: WI-CV-GW04S/SP-0317, Name: 170306G1_20, Date: 06-Mar-2017, Time: 19:23:25

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.031e3		0.131			
2	4 PFOA	413 > 368.7	2.368e2	2.827e4		0.131	4.28		
3	6 PFOS	499 > 79.9		7.808e3		0.131			
4	7 13C3-PFBS	302.0 > 98.8	6.031e3	1.580e4	0.410	0.131	2.97	88.8	93.1
5	8 13C4-PFHxA	367.2 > 321.8	1.478e4	1.580e4	1.098	0.131	3.87	81.3	85.2
6	9 18O2-PFHxS	403 > 102.6	6.506e3	1.580e4	0.434	0.131	3.99	90.5	94.8
7	10 13C2-PFOA	414.9 > 369.7	2.827e4	7.431e3	4.608	0.131	4.27	78.8	82.6
8	11 13C5-PFNA	468.2 > 422.9	7.212e3	8.965e3	0.867	0.131	4.60	88.5	92.8
9	12 13C8-PFOS	507.0 > 79.9	7.808e3	9.074e3	0.958	0.131	4.66	85.7	89.8
10	13 13C5-PFHxA	318 > 272.9	2.811e4	2.811e4	1.000	0.131	3.35	95.4	100
11	14 13C3-PFHxS	401.9 > 79.9	1.580e4	1.580e4	1.000	0.131	3.99	95.4	100
12	15 13C8-PFOA	421.3 > 376	7.431e3	7.431e3	1.000	0.131	4.27	95.4	100
13	16 13C9-PFNA	472.2 > 426.9	8.965e3	8.965e3	1.000	0.131	4.60	95.4	100
14	17 13C4-PFOS	503.0 > 79.9	9.074e3	9.074e3	1.000	0.131	4.66	95.4	100
15	18 Total PFBS	299 > 79.7		6.506e3		0.131			
16	20 Total PFOA	413 > 368.7		2.827e4		0.131			
17	21 Total PFOS	499 > 79.9		7.808e3		0.131			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-20.qld

Last Altered: Tuesday, March 07, 2017 11:20:25 AM Pacific Standard Time

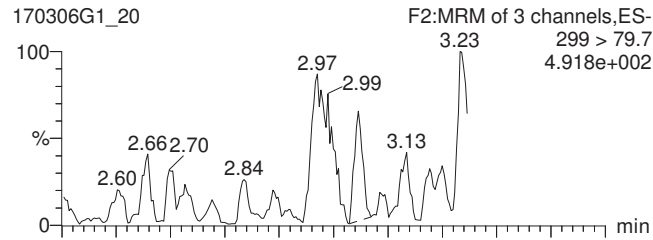
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Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

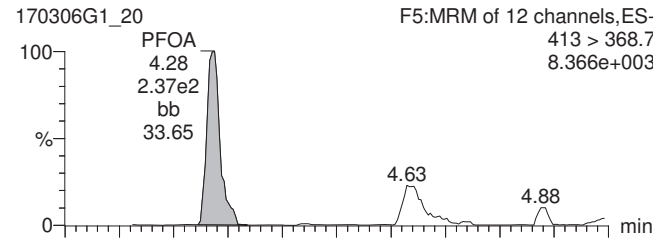
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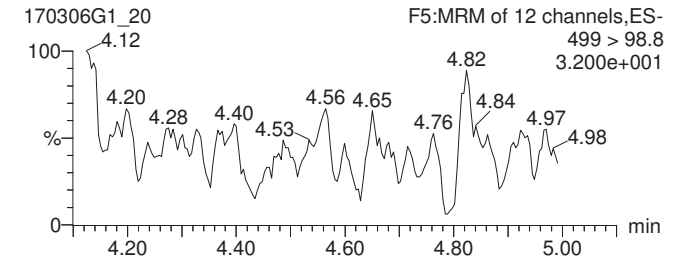
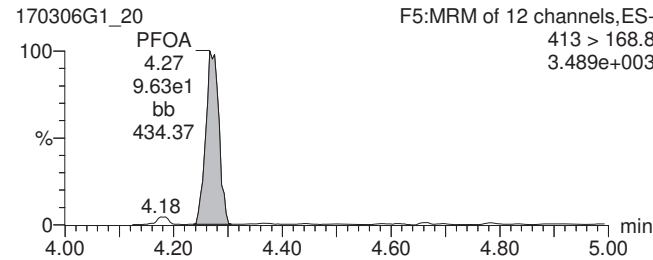
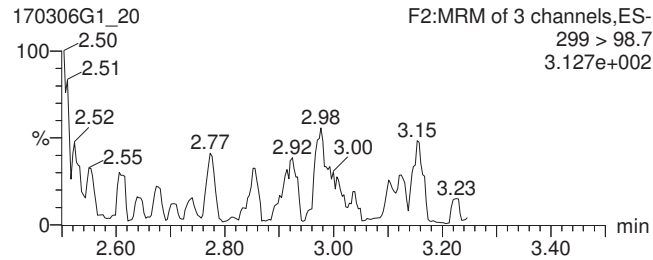
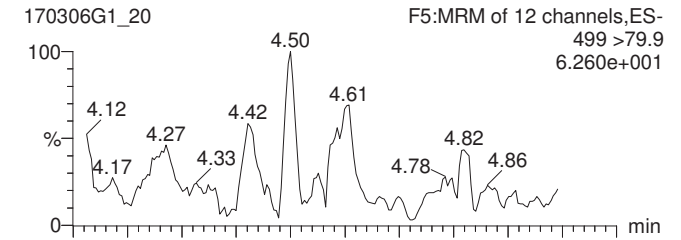
Total PFBS



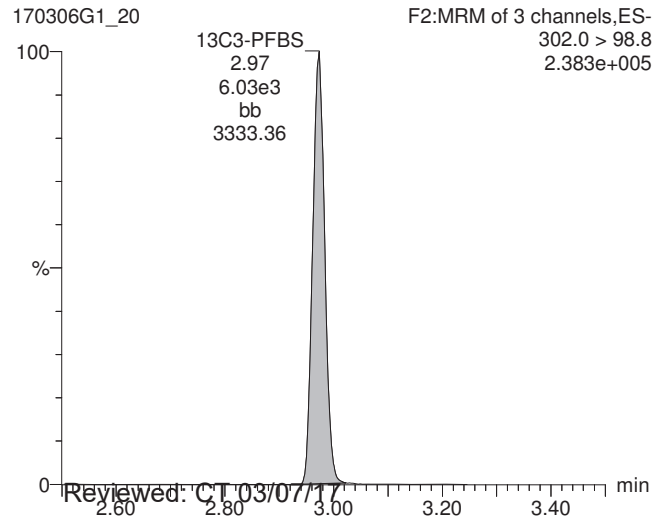
Total PFOA



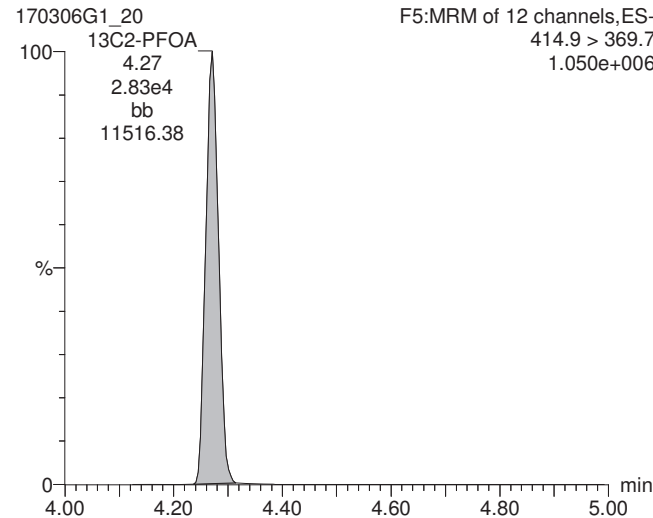
Total PFOS



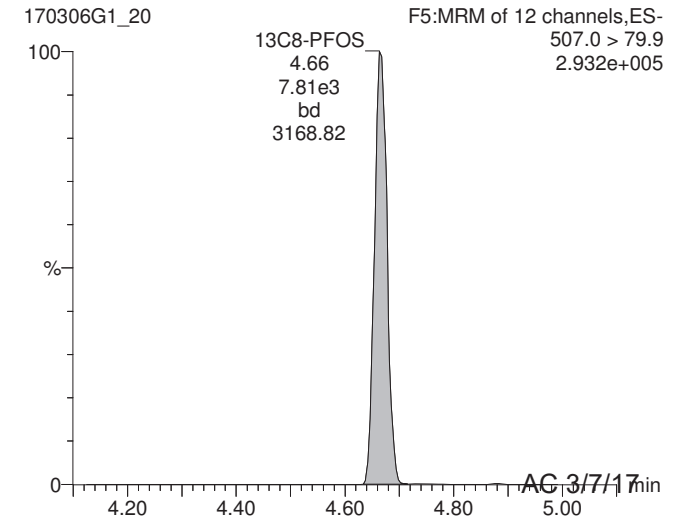
13C3-PFBS



13C2-PFOA



13C8-PFOS

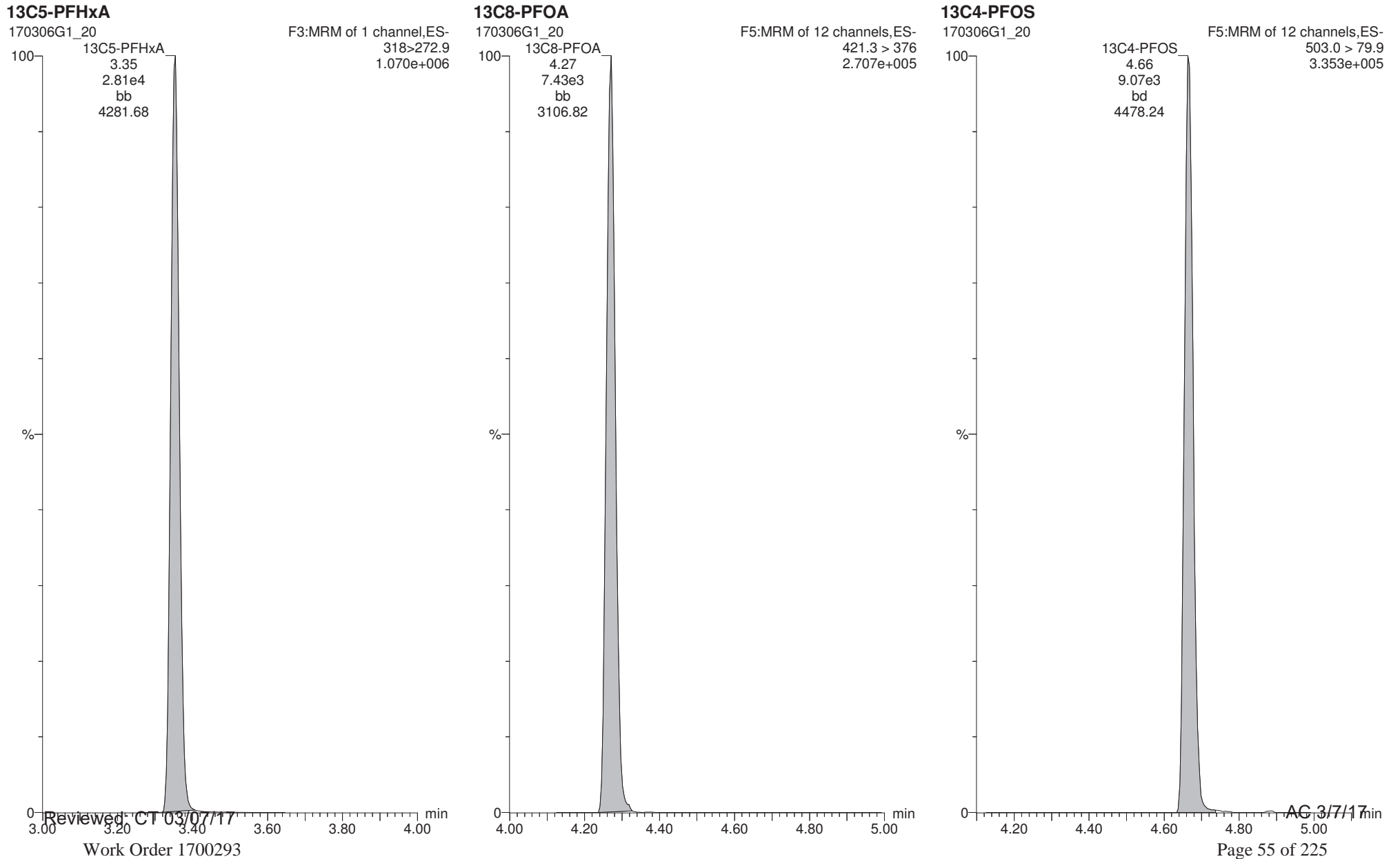


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Printed: Tuesday, March 07, 2017 11:20:52 AM Pacific Standard Time

ID: 1700293-04 WI-CV-GW04S/SP-0317 0.125, Description: WI-CV-GW04S/SP-0317, Name: 170306G1_20, Date: 06-Mar-2017, Time: 19:23:25, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-24.qld

Last Altered: Tuesday, March 07, 2017 11:21:54 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:22:19 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-05 WI-CV-GW02M-0317 0.125, Description: WI-CV-GW02M-0317, Name: 170306G1_24, Date: 06-Mar-2017, Time: 20:13:35

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	3.568e1	6.489e3		0.129	2.98	0.00152	
2	4 PFOA	413 > 368.7	1.729e2	2.933e4		0.129	4.28		
3	6 PFOS	499 >79.9		8.502e3		0.129			
4	7 13C3-PFBS	302.0 > 98.8	6.489e3	1.642e4	0.410	0.129	2.97	93.5	96.4
5	8 13C4-PFHxA	367.2 > 321.8	1.627e4	1.642e4	1.098	0.129	3.87	87.5	90.2
6	9 18O2-PFHxS	403 > 102.6	7.001e3	1.642e4	0.434	0.129	3.99	95.2	98.2
7	10 13C2-PFOA	414.9 > 369.7	2.933e4	7.396e3	4.608	0.129	4.28	83.4	86.0
8	11 13C5-PFNA	468.2 > 422.9	6.821e3	9.530e3	0.867	0.129	4.61	80.0	82.5
9	12 13C8-PFOS	507.0 > 79.9	8.502e3	9.246e3	0.958	0.129	4.67	93.1	96.0
10	13 13C5-PFHxA	318>272.9	2.908e4	2.908e4	1.000	0.129	3.35	97.0	100
11	14 13C3-PFHxS	401.9 > 79.9	1.642e4	1.642e4	1.000	0.129	3.99	97.0	100
12	15 13C8-PFOA	421.3 > 376	7.396e3	7.396e3	1.000	0.129	4.27	97.0	100
13	16 13C9-PFNA	472.2 > 426.9	9.530e3	9.530e3	1.000	0.129	4.61	97.0	100
14	17 13C4-PFOS	503.0 > 79.9	9.246e3	9.246e3	1.000	0.129	4.67	97.0	100
15	18 Total PFBS	299 > 79.7		7.001e3		0.129		0.00152	
16	20 Total PFOA	413 > 368.7		2.933e4		0.129			
17	21 Total PFOS	499 > 79.9		8.502e3		0.129			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-24.qld

Last Altered: Tuesday, March 07, 2017 11:21:54 AM Pacific Standard Time

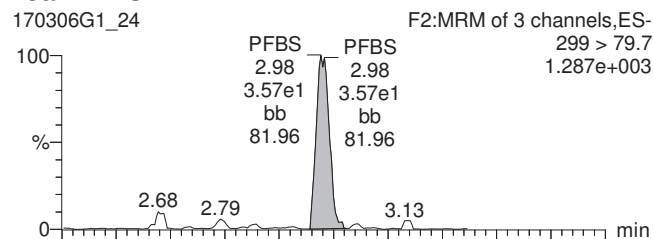
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Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

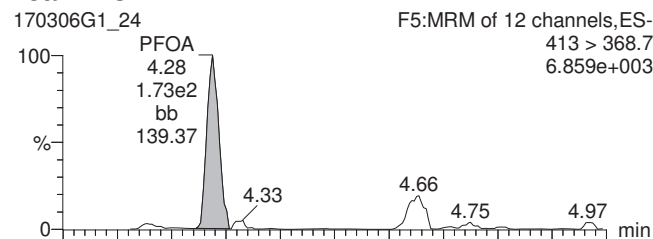
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ID: 1700293-05 WI-CV-GW02M-0317 0.125, Description: WI-CV-GW02M-0317, Name: 170306G1_24, Date: 06-Mar-2017, Time: 20:13:35, Instrument: , Lab: , User:

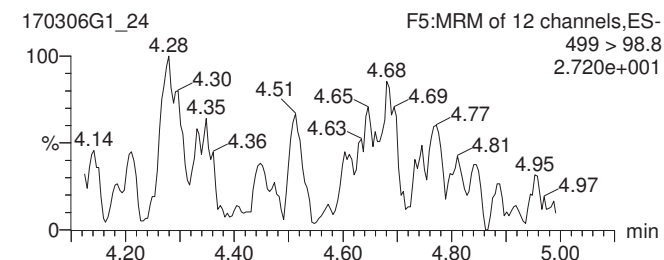
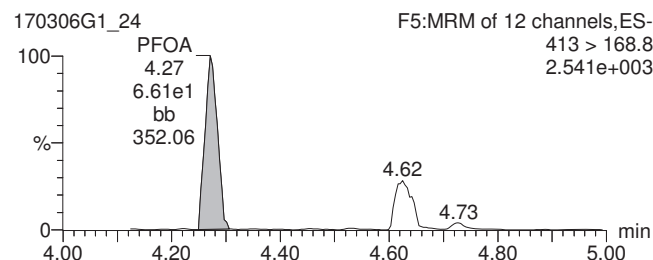
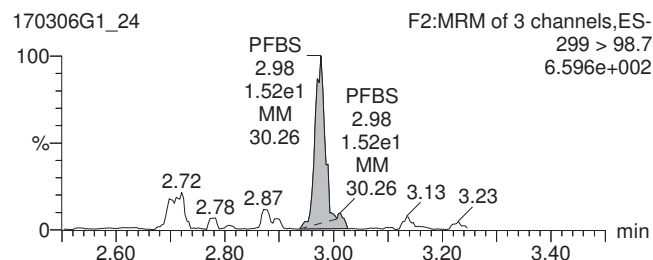
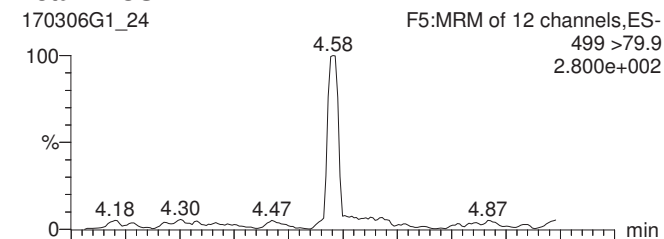
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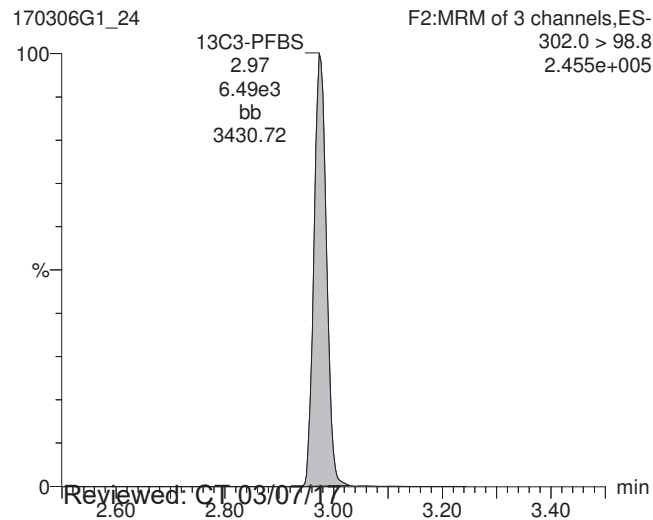
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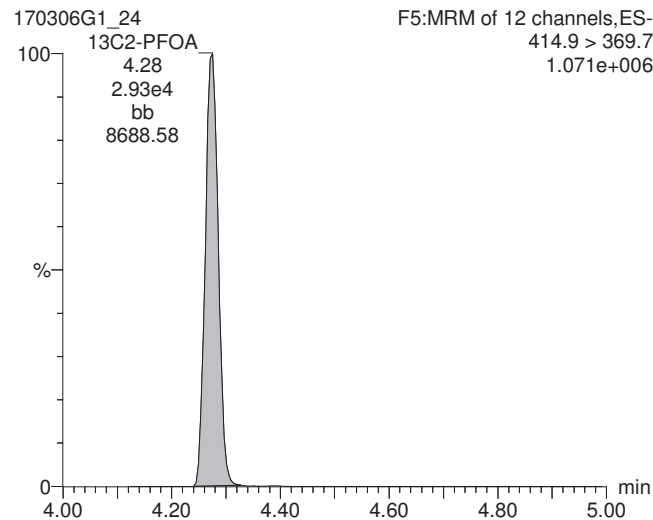
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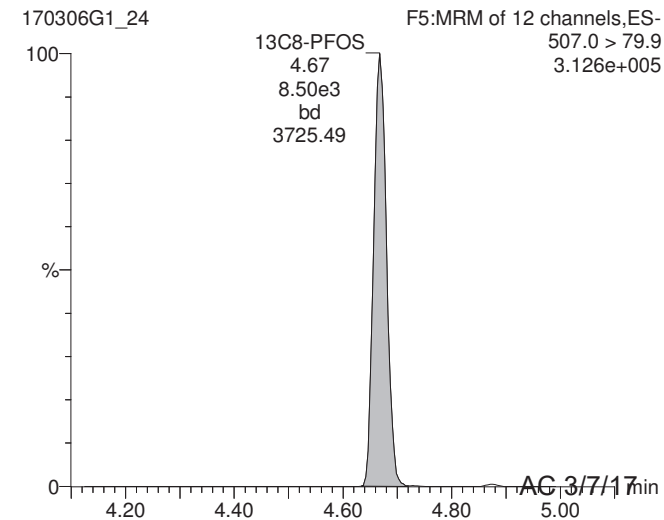
13C3-PFBS



13C2-PFOA



13C8-PFOS

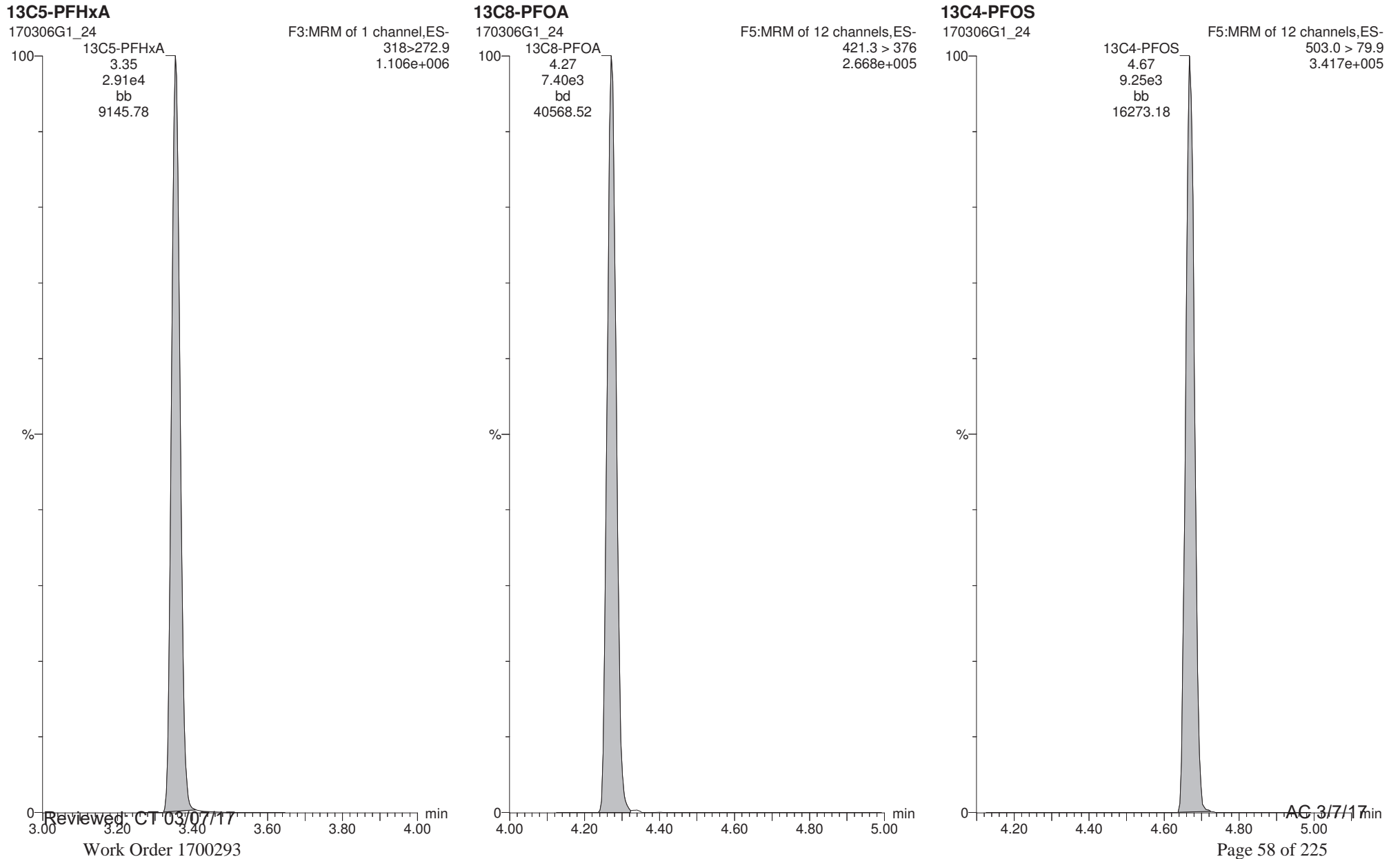


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Printed: Tuesday, March 07, 2017 11:22:19 AM Pacific Standard Time

ID: 1700293-05 WI-CV-GW02M-0317 0.125, Description: WI-CV-GW02M-0317, Name: 170306G1_24, Date: 06-Mar-2017, Time: 20:13:35, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-25.qld

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Printed: Tuesday, March 07, 2017 11:24:39 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-06 WI-CV-GW12D-0317 0.125, Description: WI-CV-GW12D-0317, Name: 170306G1_25, Date: 06-Mar-2017, Time: 20:26:04

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.073e3		0.126			
2	4 PFOA	413 > 368.7	1.353e2	2.981e4		0.126	4.28		
3	6 PFOS	499 > 79.9		7.978e3		0.126			
4	7 13C3-PFBS	302.0 > 98.8	6.073e3	1.667e4	0.410	0.126	2.98	88.4	88.9
5	8 13C4-PFHpA	367.2 > 321.8	1.608e4	1.667e4	1.098	0.126	3.87	87.4	87.9
6	9 18O2-PFHxS	403 > 102.6	6.881e3	1.667e4	0.434	0.126	3.99	94.6	95.1
7	10 13C2-PFOA	414.9 > 369.7	2.981e4	7.890e3	4.608	0.126	4.28	81.6	82.0
8	11 13C5-PFNA	468.2 > 422.9	7.030e3	9.841e3	0.867	0.126	4.61	82.0	82.4
9	12 13C8-PFOS	507.0 > 79.9	7.978e3	9.906e3	0.958	0.126	4.67	83.6	84.0
10	13 13C5-PFHxA	318>272.9	2.891e4	2.891e4	1.000	0.126	3.35	99.5	100
11	14 13C3-PFHxS	401.9 > 79.9	1.667e4	1.667e4	1.000	0.126	3.99	99.5	100
12	15 13C8-PFOA	421.3 > 376	7.890e3	7.890e3	1.000	0.126	4.27	99.5	100
13	16 13C9-PFNA	472.2 > 426.9	9.841e3	9.841e3	1.000	0.126	4.61	99.5	100
14	17 13C4-PFOS	503.0 > 79.9	9.906e3	9.906e3	1.000	0.126	4.67	99.5	100
15	18 Total PFBS	299 > 79.7		6.881e3		0.126			
16	20 Total PFOA	413 > 368.7		2.981e4		0.126			
17	21 Total PFOS	499 > 79.9		7.978e3		0.126			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-25.qld

Last Altered: Tuesday, March 07, 2017 11:24:23 AM Pacific Standard Time

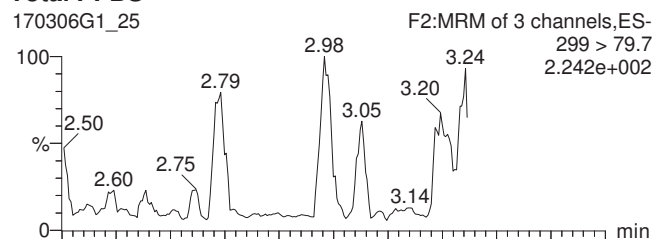
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Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

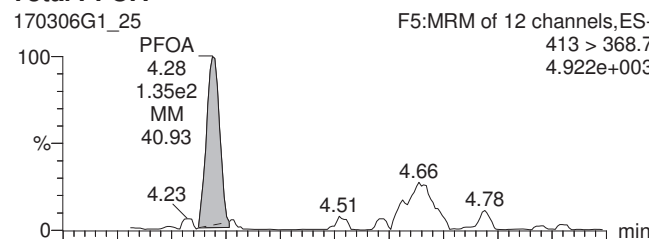
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ID: 1700293-06 WI-CV-GW12D-0317 0.125, Description: WI-CV-GW12D-0317, Name: 170306G1_25, Date: 06-Mar-2017, Time: 20:26:04, Instrument: , Lab: , User:

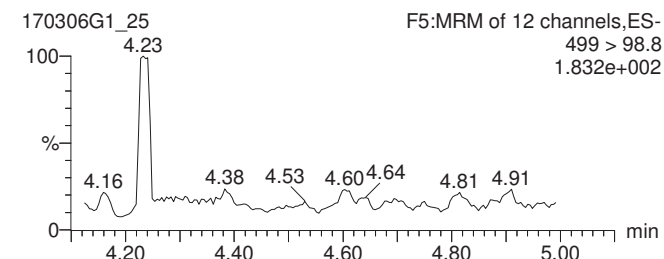
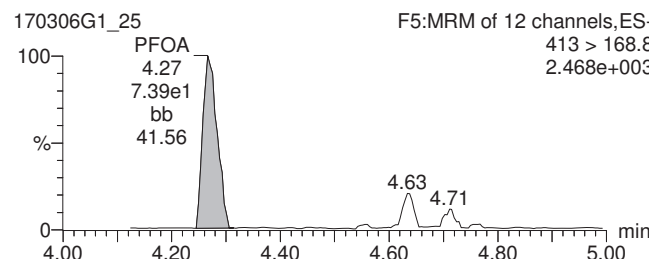
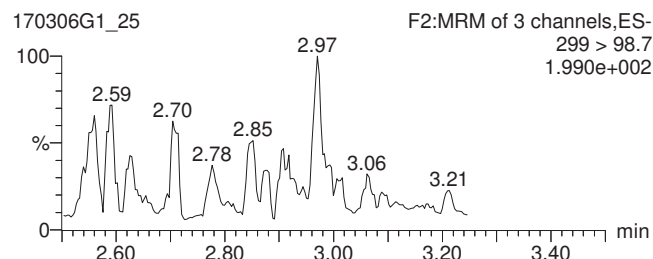
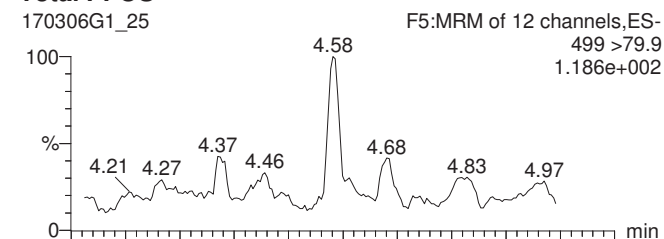
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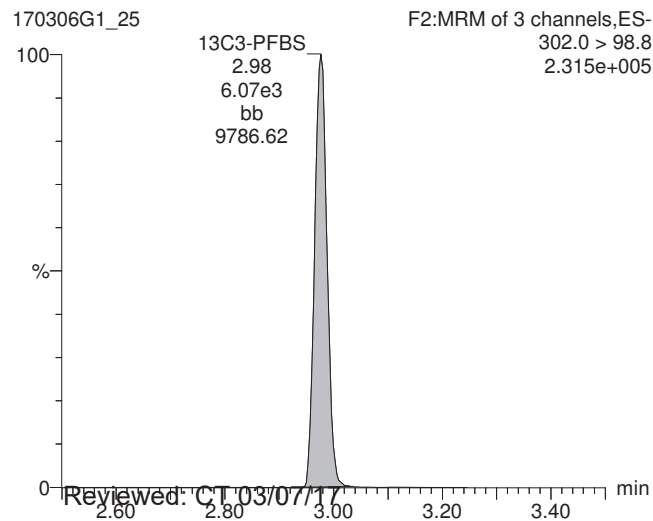
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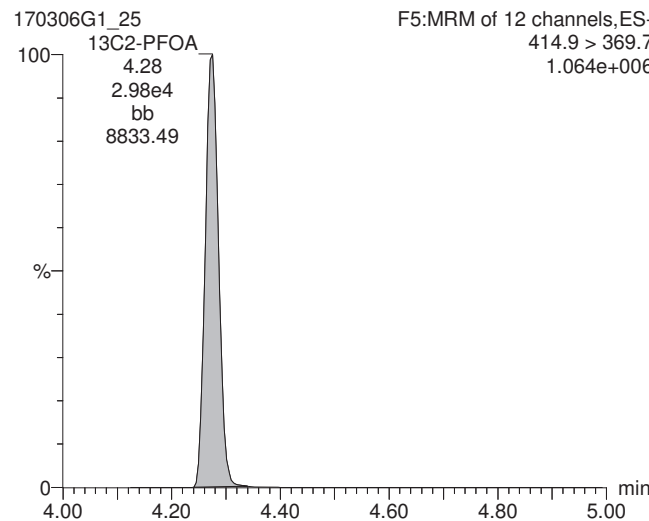
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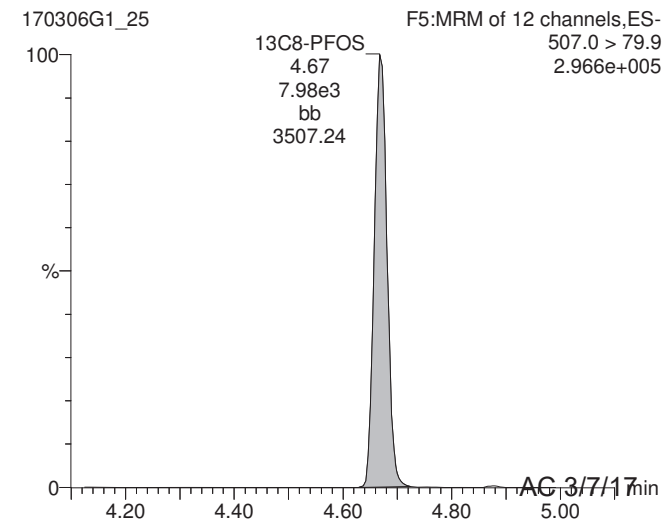
13C3-PFBS



13C2-PFOA



13C8-PFOS

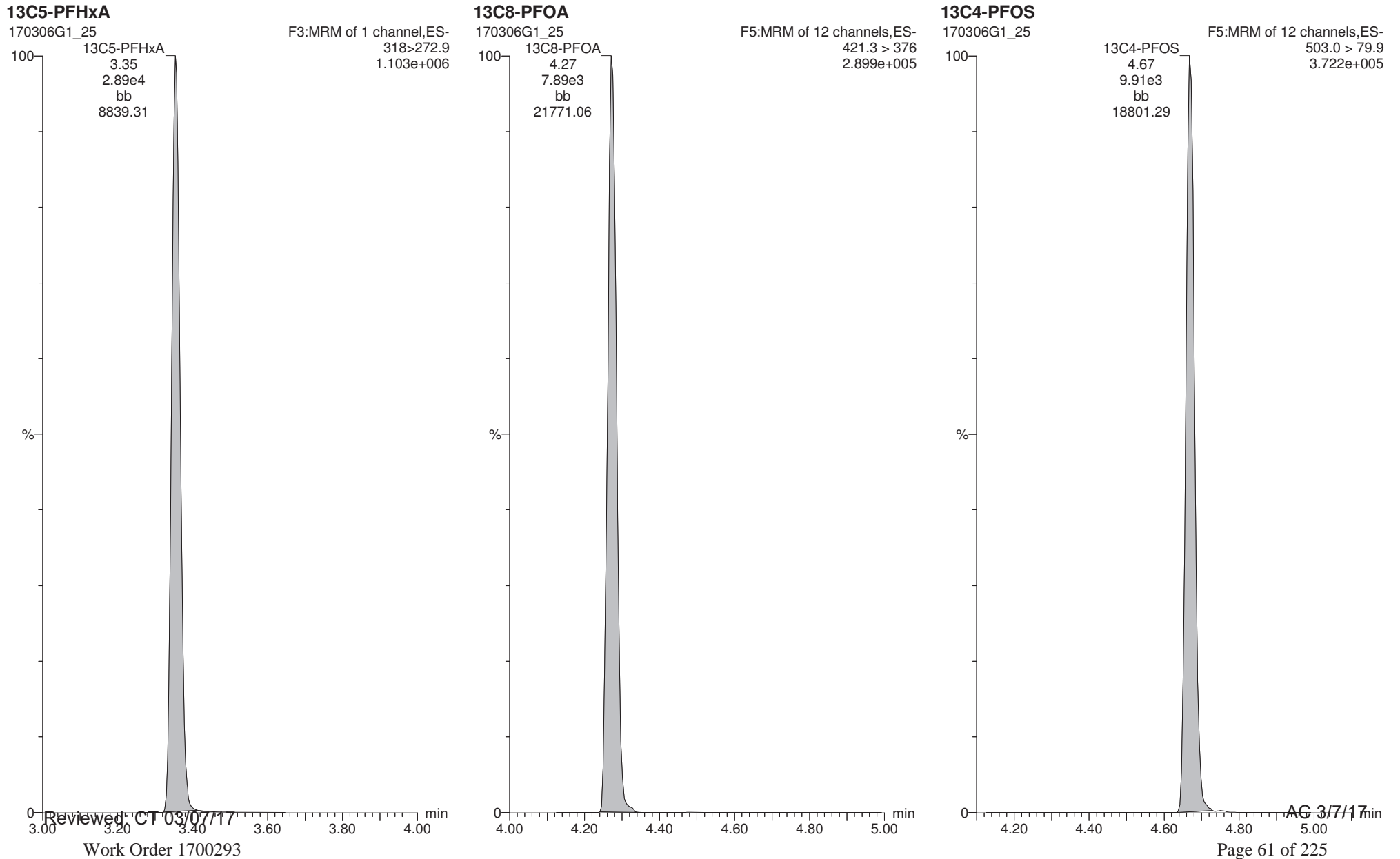


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Printed: Tuesday, March 07, 2017 11:24:39 AM Pacific Standard Time

ID: 1700293-06 WI-CV-GW12D-0317 0.125, Description: WI-CV-GW12D-0317, Name: 170306G1_25, Date: 06-Mar-2017, Time: 20:26:04, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-31.qld

Last Altered: Tuesday, March 07, 2017 11:39:43 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:40:11 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: B7C0017-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170306G1_31, Date: 06-Mar-2017, Time: 21:41:24

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.189e4	5.624e3		0.124	2.98	89.2	
2	4 PFOA	413 > 368.7	2.091e4	2.837e4		0.124	4.28	91.6	
3	6 PFOS	499 > 79.9	3.292e3	6.921e3		0.124	4.67	89.8	
4	7 13C3-PFBS	302.0 > 98.8	5.624e3	1.535e4	0.410	0.124	2.98	90.0	89.4
5	8 13C4-PFHpA	367.2 > 321.8	1.446e4	1.535e4	1.098	0.124	3.87	86.4	85.8
6	9 18O2-PFHxS	403 > 102.6	6.238e3	1.535e4	0.434	0.124	3.99	94.3	93.6
7	10 13C2-PFOA	414.9 > 369.7	2.837e4	7.341e3	4.608	0.124	4.27	84.5	83.9
8	11 13C5-PFNA	468.2 > 422.9	6.697e3	9.350e3	0.867	0.124	4.61	83.2	82.6
9	12 13C8-PFOS	507.0 > 79.9	6.921e3	9.672e3	0.958	0.124	4.67	75.2	74.7
10	13 13C5-PFHxA	318>272.9	2.786e4	2.786e4	1.000	0.124	3.35	101	100
11	14 13C3-PFHxS	401.9 > 79.9	1.535e4	1.535e4	1.000	0.124	3.99	101	100
12	15 13C8-PFOA	421.3 > 376	7.341e3	7.341e3	1.000	0.124	4.27	101	100
13	16 13C9-PFNA	472.2 > 426.9	9.350e3	9.350e3	1.000	0.124	4.61	101	100
14	17 13C4-PFOS	503.0 > 79.9	9.672e3	9.672e3	1.000	0.124	4.67	101	100
15	18 Total PFBS	299 > 79.7		6.238e3		0.124		89.2	
16	20 Total PFOA	413 > 368.7		2.837e4		0.124		91.6	
17	21 Total PFOS	499 > 79.9		6.921e3		0.124		89.8	

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-31.qld

Last Altered: Tuesday, March 07, 2017 11:39:43 AM Pacific Standard Time

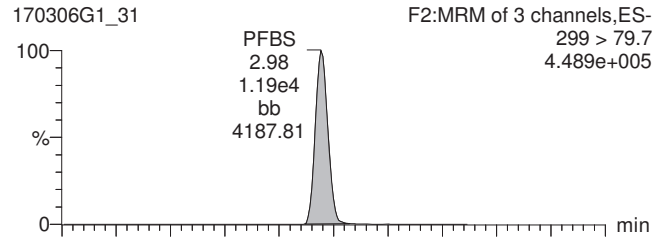
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Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

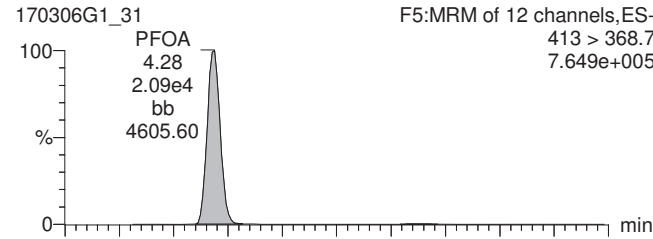
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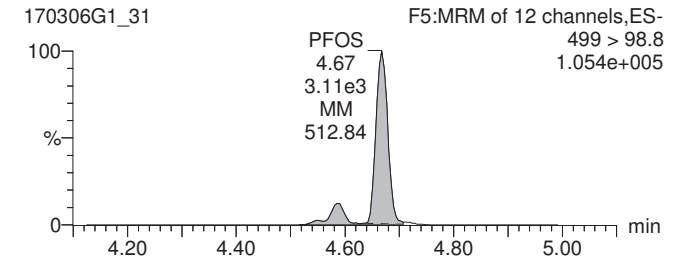
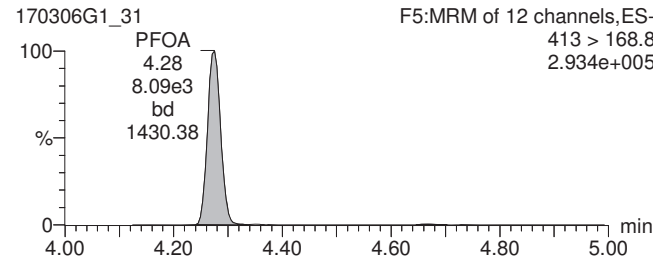
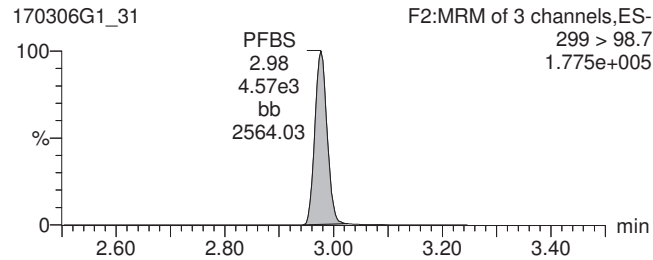
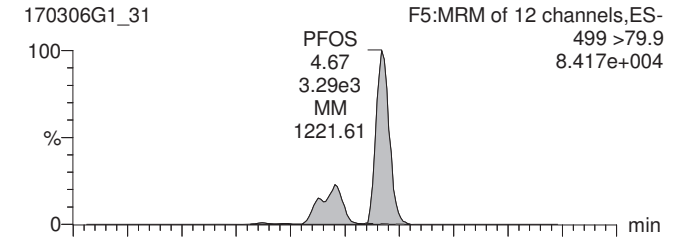
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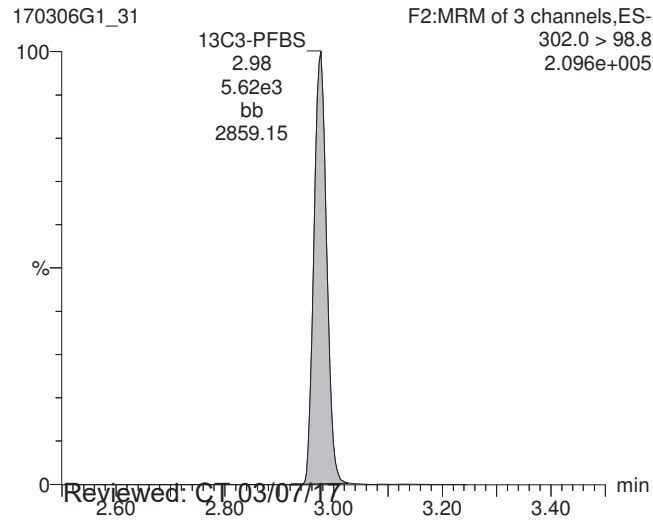
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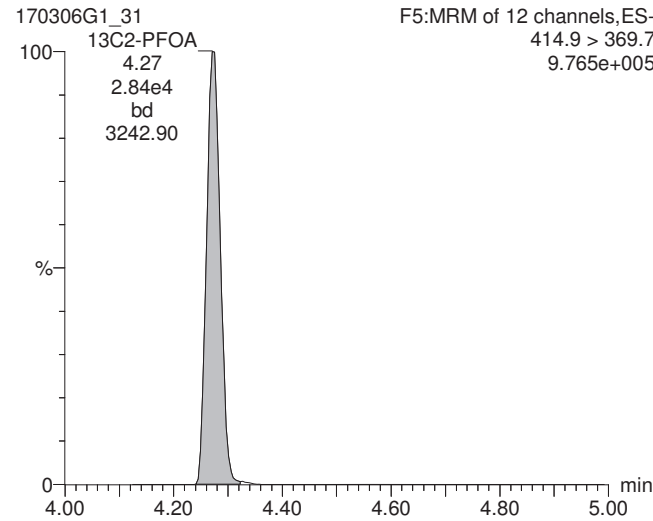
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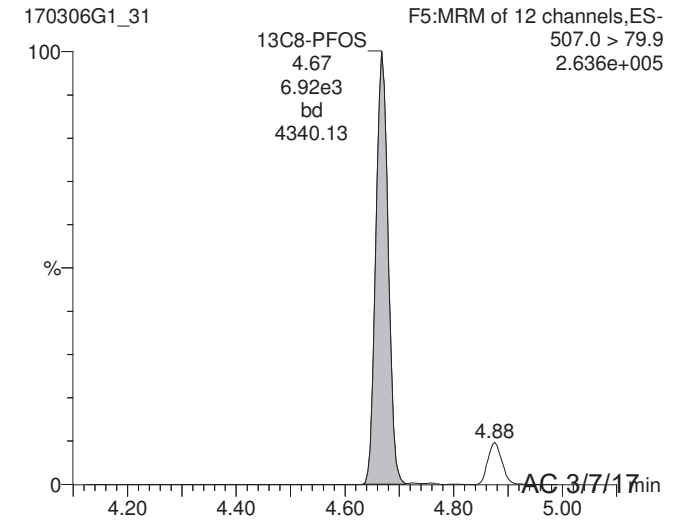
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: CT 03/07/17

Work Order 1700293

AC 3/7/17

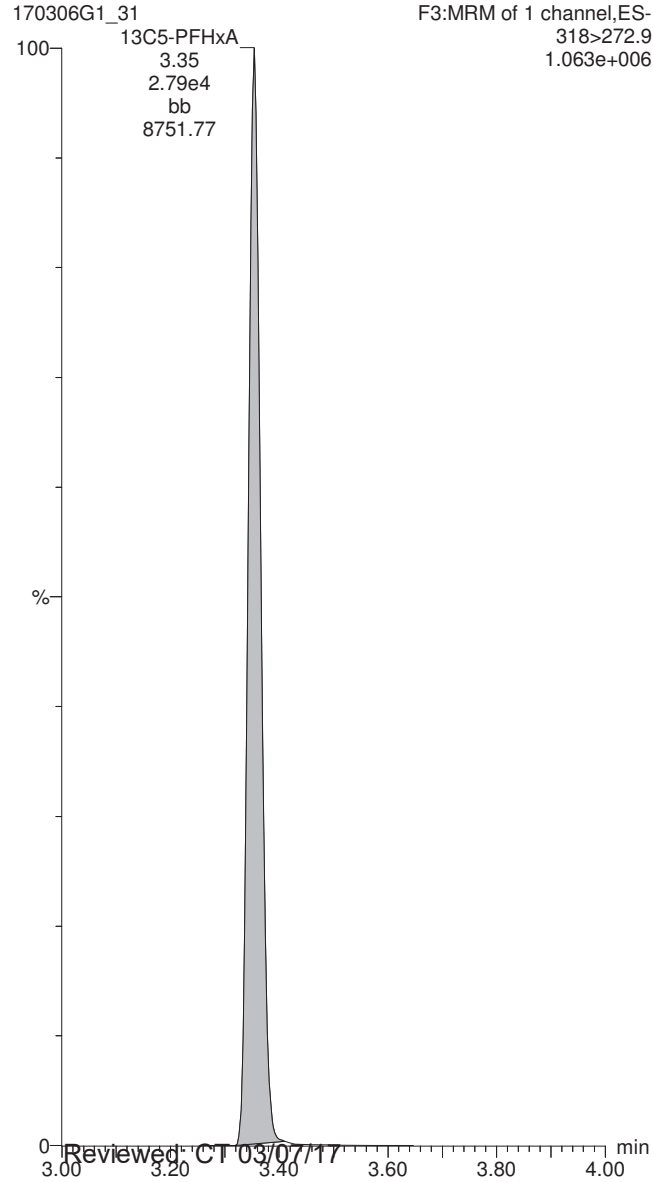
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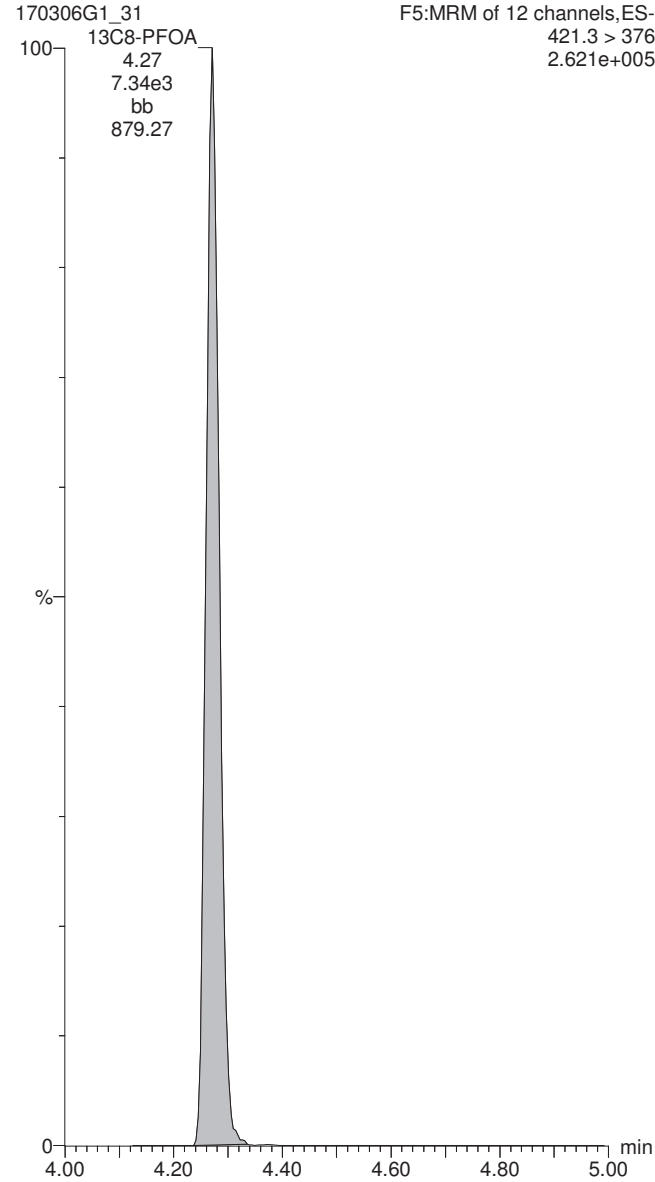
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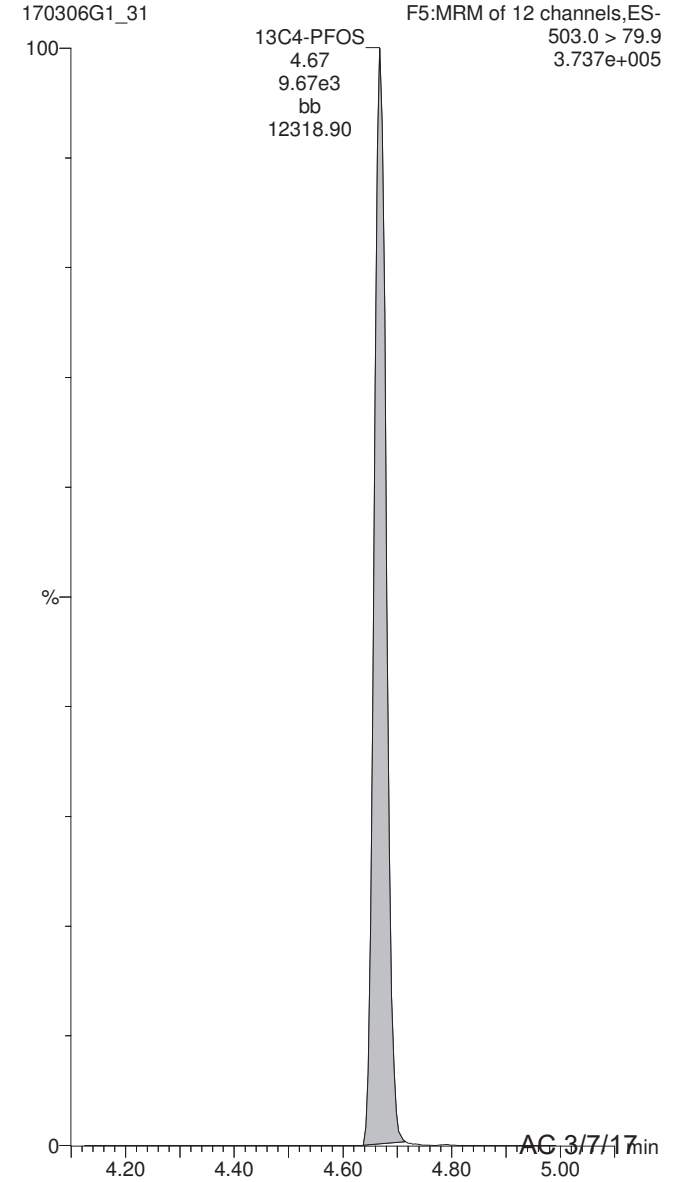
13C5-PFHxA



13C8-PFOA



13C4-PFOS



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-32.qld

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Printed: Tuesday, March 07, 2017 11:42:03 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: B7C0017-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170306G1_32, Date: 06-Mar-2017, Time: 21:53:53

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.144e4	5.611e3		0.125	2.98	85.1	
2	4 PFOA	413 > 368.7	2.058e4	2.832e4		0.125	4.28	89.4	
3	6 PFOS	499 > 79.9	3.006e3	7.769e3		0.125	4.67	72.4	
4	7 13C3-PFBS	302.0 > 98.8	5.611e3	1.555e4	0.410	0.125	2.98	87.7	88.0
5	8 13C4-PFHpA	367.2 > 321.8	1.450e4	1.555e4	1.098	0.125	3.87	84.6	84.9
6	9 18O2-PFHxS	403 > 102.6	6.443e3	1.555e4	0.434	0.125	3.99	95.1	95.4
7	10 13C2-PFOA	414.9 > 369.7	2.832e4	7.399e3	4.608	0.125	4.28	82.8	83.0
8	11 13C5-PFNA	468.2 > 422.9	7.024e3	9.084e3	0.867	0.125	4.61	88.9	89.2
9	12 13C8-PFOS	507.0 > 79.9	7.769e3	9.030e3	0.958	0.125	4.67	89.5	89.8
10	13 13C5-PFHxA	318>272.9	2.692e4	2.692e4	1.000	0.125	3.35	99.7	100
11	14 13C3-PFHxS	401.9 > 79.9	1.555e4	1.555e4	1.000	0.125	3.99	99.7	100
12	15 13C8-PFOA	421.3 > 376	7.399e3	7.399e3	1.000	0.125	4.27	99.7	100
13	16 13C9-PFNA	472.2 > 426.9	9.084e3	9.084e3	1.000	0.125	4.61	99.7	100
14	17 13C4-PFOS	503.0 > 79.9	9.030e3	9.030e3	1.000	0.125	4.67	99.7	100
15	18 Total PFBS	299 > 79.7		6.443e3		0.125		85.1	
16	20 Total PFOA	413 > 368.7		2.832e4		0.125		89.4	
17	21 Total PFOS	499 > 79.9		7.769e3		0.125		72.4	

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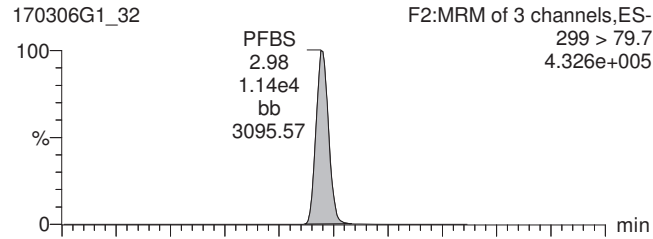
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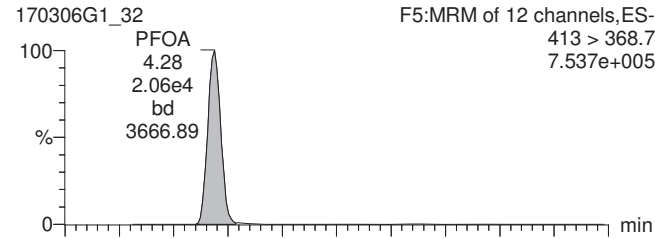
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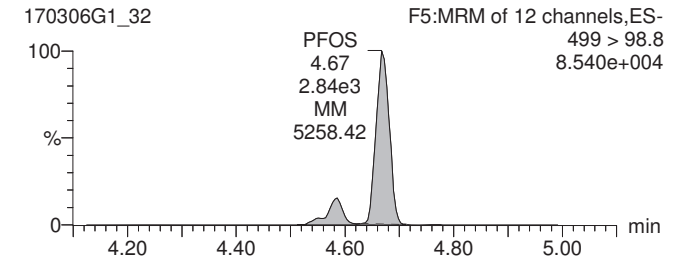
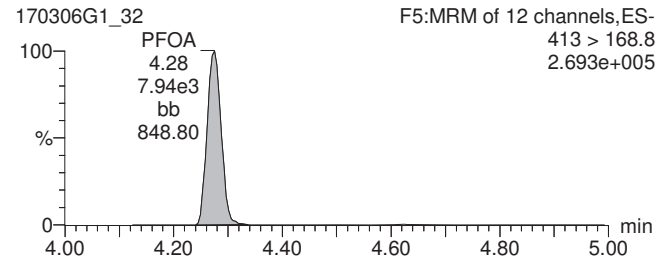
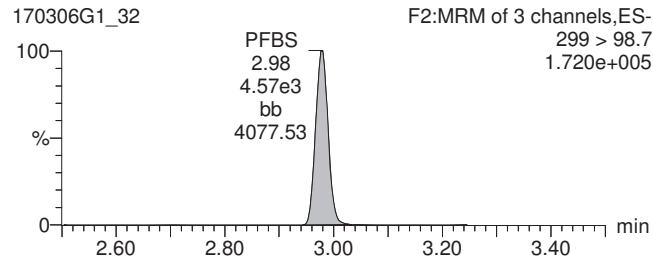
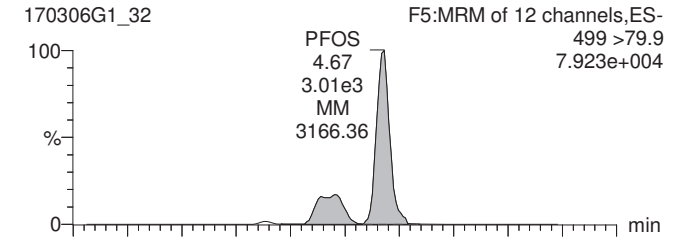
Total PFBS



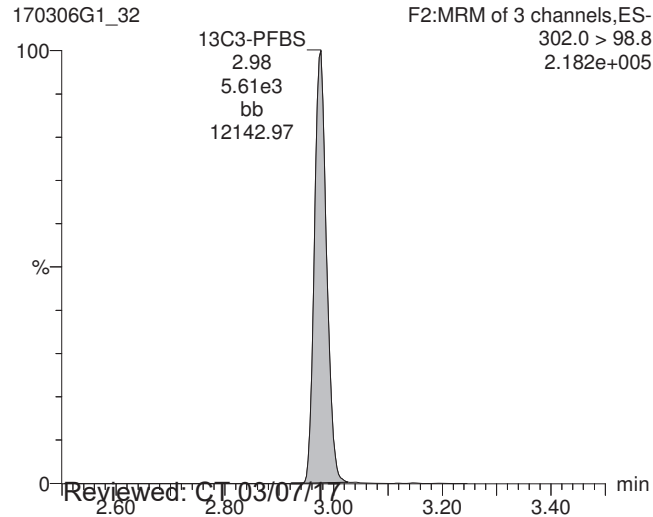
Total PFOA



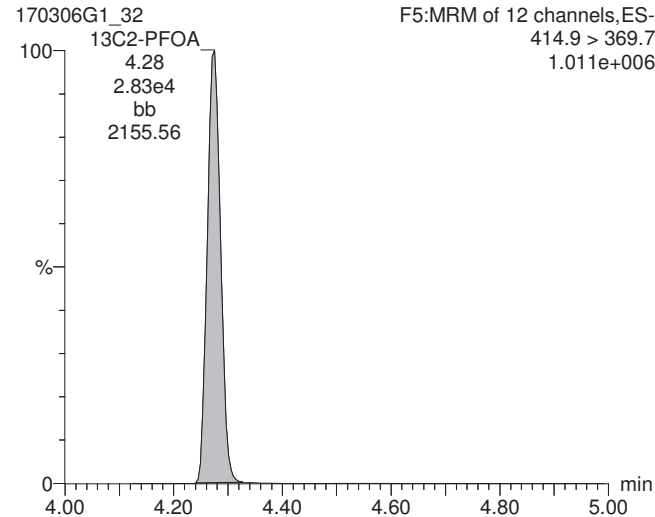
Total PFOS



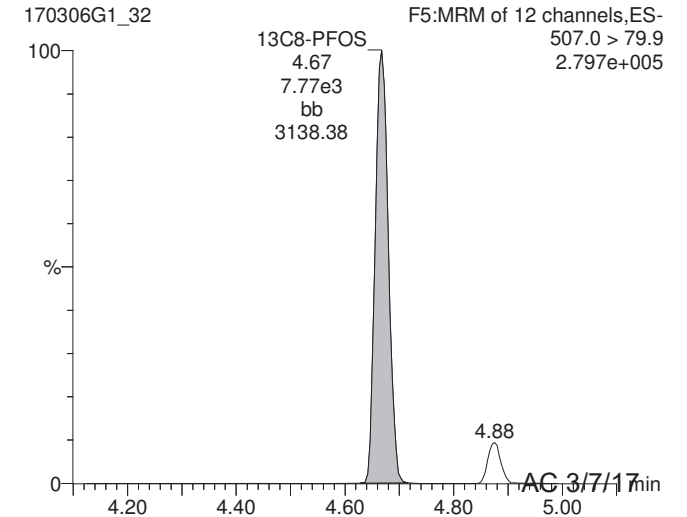
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: CT 03/07/17

Work Order 1700293

AC 3/7/17

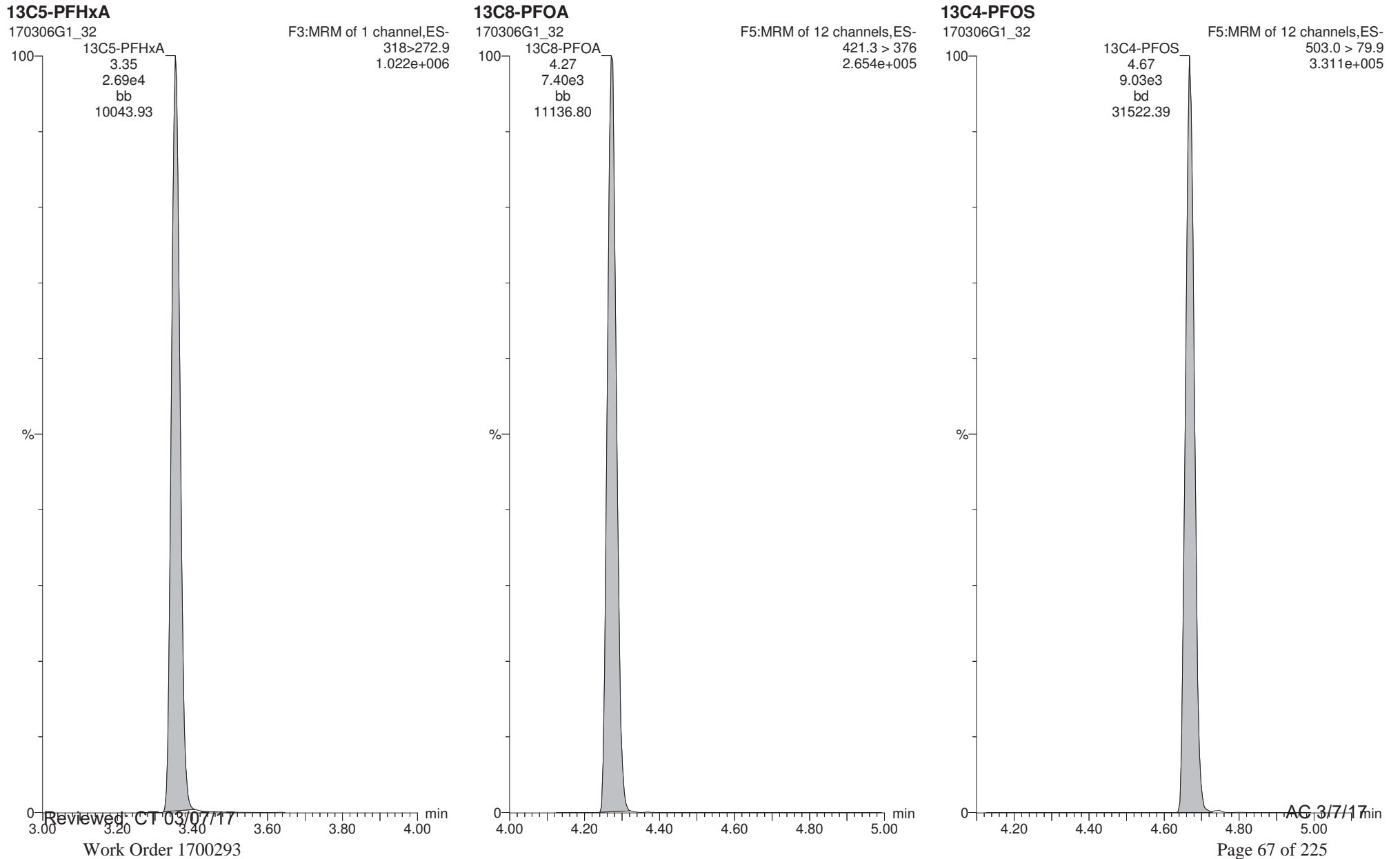
Page 66 of 225

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-32.qld

Last Altered: Tuesday, March 07, 2017 11:41:43 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:42:03 AM Pacific Standard Time

ID: B7C0017-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170306G1_32, Date: 06-Mar-2017, Time: 21:53:53, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-26.qld

Last Altered: Tuesday, March 07, 2017 11:26:07 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:26:24 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-07 WI-CV-EB09-030117 0.125, Description: WI-CV-EB09-030117, Name: 170306G1_26, Date: 06-Mar-2017, Time: 20:38:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.887e0	6.215e3		0.115	2.98		
2	4 PFOA	413 > 368.7	1.967e2	3.456e4		0.115	4.28		
3	6 PFOS	499 >79.9		9.932e3		0.115			
4	7 13C3-PFBS	302.0 > 98.8	6.215e3	1.670e4	0.410	0.115	2.98	98.6	90.8
5	8 13C4-PFHpA	367.2 > 321.8	1.622e4	1.670e4	1.098	0.115	3.87	96.1	88.5
6	9 18O2-PFHxS	403 > 102.6	7.279e3	1.670e4	0.434	0.115	3.99	109	100
7	10 13C2-PFOA	414.9 > 369.7	3.456e4	8.713e3	4.608	0.115	4.27	93.5	86.1
8	11 13C5-PFNA	468.2 > 422.9	9.383e3	1.055e4	0.867	0.115	4.61	111	103
9	12 13C8-PFOS	507.0 > 79.9	9.932e3	1.085e4	0.958	0.115	4.67	104	95.5
10	13 13C5-PFHxA	318>272.9	3.001e4	3.001e4	1.000	0.115	3.35	109	100
11	14 13C3-PFHxS	401.9 > 79.9	1.670e4	1.670e4	1.000	0.115	3.99	109	100
12	15 13C8-PFOA	421.3 > 376	8.713e3	8.713e3	1.000	0.115	4.27	109	100
13	16 13C9-PFNA	472.2 > 426.9	1.055e4	1.055e4	1.000	0.115	4.61	109	100
14	17 13C4-PFOS	503.0 > 79.9	1.085e4	1.085e4	1.000	0.115	4.67	109	100
15	18 Total PFBS	299 > 79.7		7.279e3		0.115			
16	20 Total PFOA	413 > 368.7		3.456e4		0.115			
17	21 Total PFOS	499 > 79.9		9.932e3		0.115			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-26.qld

Last Altered: Tuesday, March 07, 2017 11:26:07 AM Pacific Standard Time

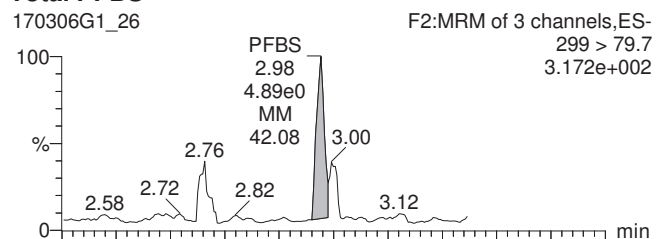
Printed: Tuesday, March 07, 2017 11:26:24 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

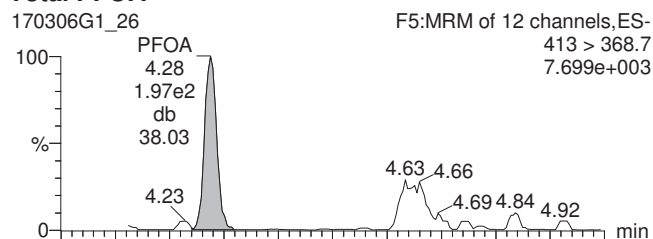
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ID: 1700293-07 WI-CV-EB09-030117 0.125, Description: WI-CV-EB09-030117, Name: 170306G1_26, Date: 06-Mar-2017, Time: 20:38:37, Instrument: , Lab: , User:

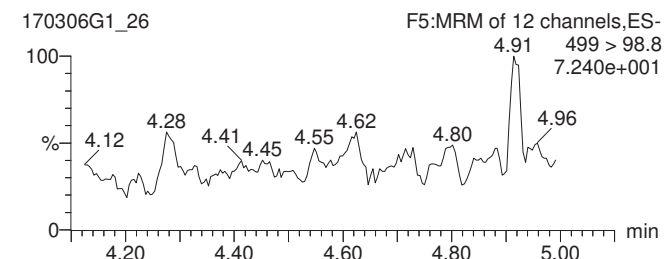
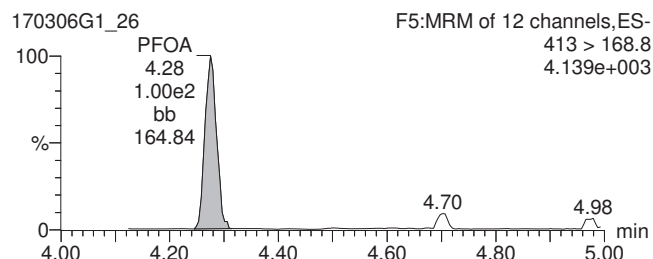
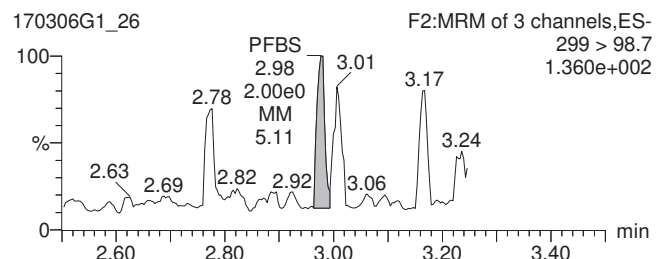
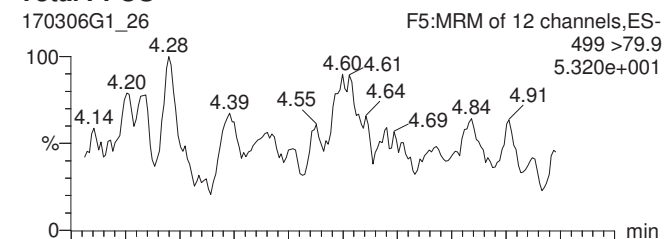
Total PFBS



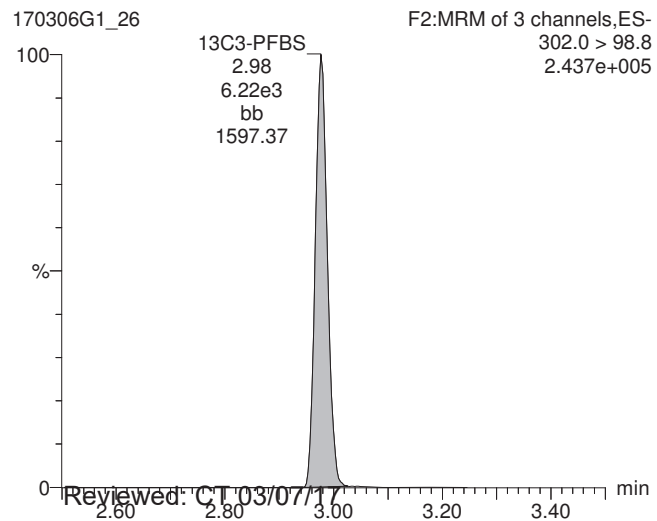
Total PFOA



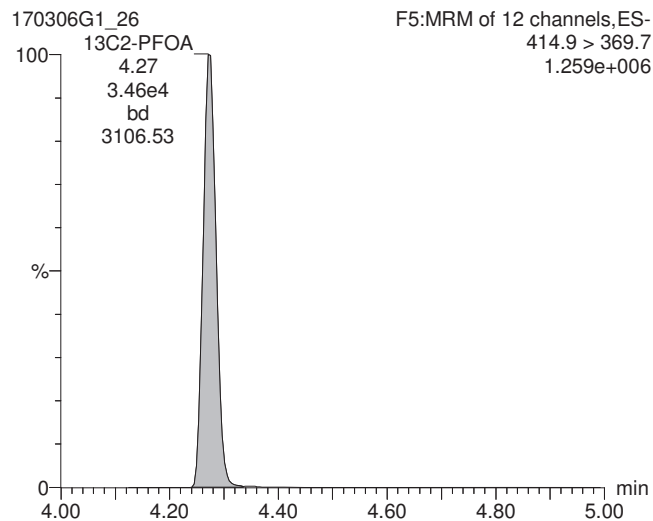
Total PFOS



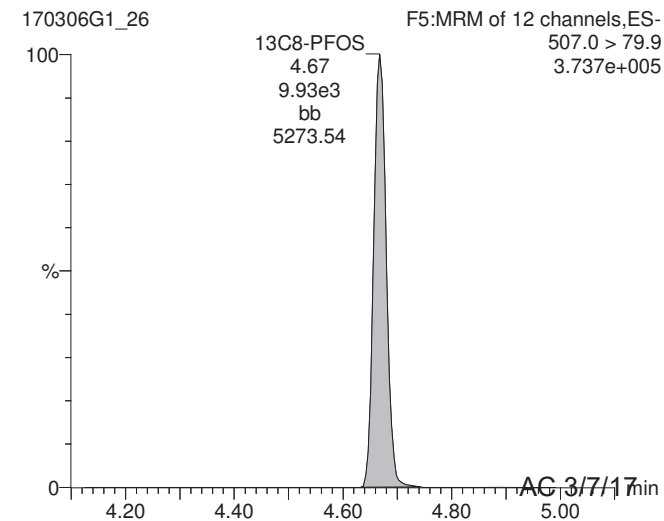
13C3-PFBS



13C2-PFOA



13C8-PFOS

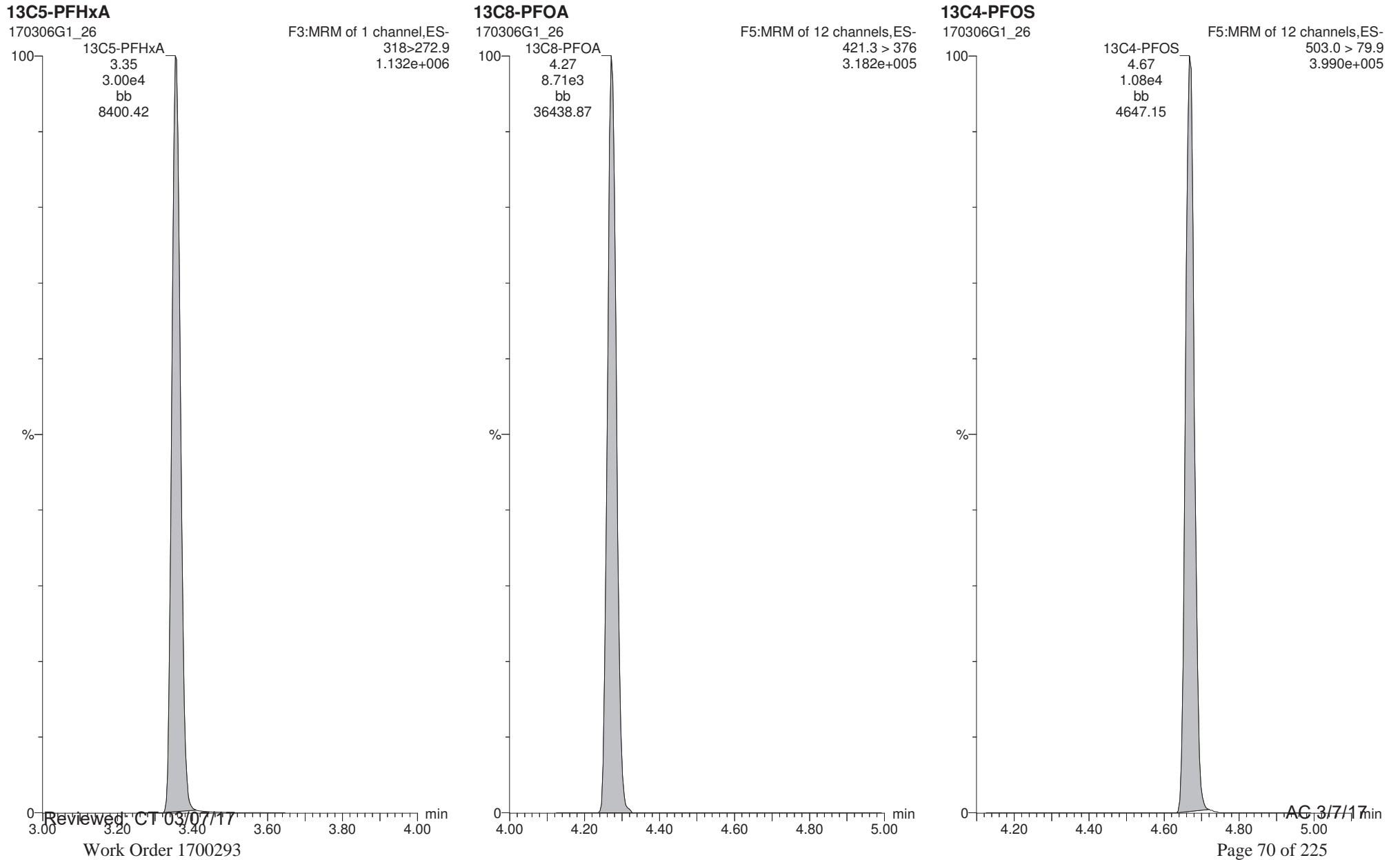


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Last Altered: Tuesday, March 07, 2017 11:26:07 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:26:24 AM Pacific Standard Time

ID: 1700293-07 WI-CV-EB09-030117 0.125, Description: WI-CV-EB09-030117, Name: 170306G1_26, Date: 06-Mar-2017, Time: 20:38:37, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-27.qld

Last Altered: Tuesday, March 07, 2017 11:29:20 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:29:46 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-08 WI-CV-GW08S-0317 0.125, Description: WI-CV-GW08S-0317, Name: 170306G1_27, Date: 06-Mar-2017, Time: 20:51:11

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.737e2	5.960e3		0.130	2.98	0.958	
2	4 PFOA	413 > 368.7	2.664e2	2.675e4		0.130	4.28		
3	6 PFOS	499 > 79.9		6.175e3		0.130			
4	7 13C3-PFBS	302.0 > 98.8	5.960e3	1.444e4	0.410	0.130	2.98	97.0	101
5	8 13C4-PFHxA	367.2 > 321.8	1.435e4	1.444e4	1.098	0.130	3.87	87.2	90.5
6	9 18O2-PFHxS	403 > 102.6	6.124e3	1.444e4	0.434	0.130	3.99	94.1	97.6
7	10 13C2-PFOA	414.9 > 369.7	2.675e4	6.287e3	4.608	0.130	4.28	88.9	92.3
8	11 13C5-PFNA	468.2 > 422.9	5.395e3	7.912e3	0.867	0.130	4.61	75.7	78.6
9	12 13C8-PFOS	507.0 > 79.9	6.175e3	8.376e3	0.958	0.130	4.67	74.1	76.9
10	13 13C5-PFHxA	318>272.9	2.781e4	2.781e4	1.000	0.130	3.35	96.3	100
11	14 13C3-PFHxS	401.9 > 79.9	1.444e4	1.444e4	1.000	0.130	3.99	96.3	100
12	15 13C8-PFOA	421.3 > 376	6.287e3	6.287e3	1.000	0.130	4.27	96.3	100
13	16 13C9-PFNA	472.2 > 426.9	7.912e3	7.912e3	1.000	0.130	4.61	96.3	100
14	17 13C4-PFOS	503.0 > 79.9	8.376e3	8.376e3	1.000	0.130	4.67	96.3	100
15	18 Total PFBS	299 > 79.7		6.124e3		0.130		0.958	
16	20 Total PFOA	413 > 368.7		2.675e4		0.130			
17	21 Total PFOS	499 > 79.9		6.175e3		0.130			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-27.qld

Last Altered: Tuesday, March 07, 2017 11:29:20 AM Pacific Standard Time

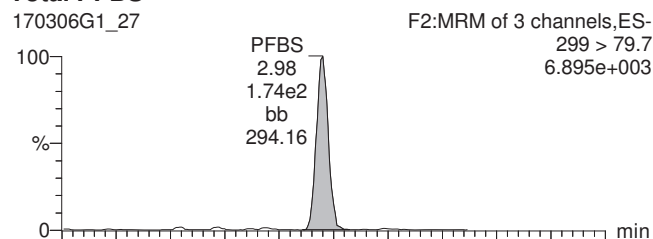
Printed: Tuesday, March 07, 2017 11:29:46 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

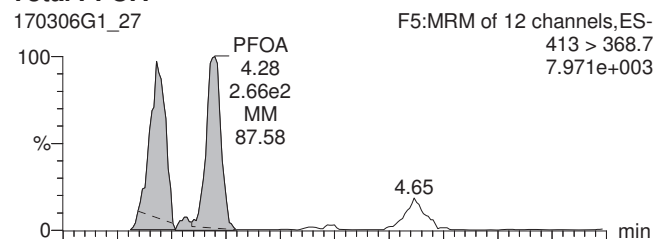
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ID: 1700293-08 WI-CV-GW08S-0317 0.125, Description: WI-CV-GW08S-0317, Name: 170306G1_27, Date: 06-Mar-2017, Time: 20:51:11, Instrument: , Lab: , User:

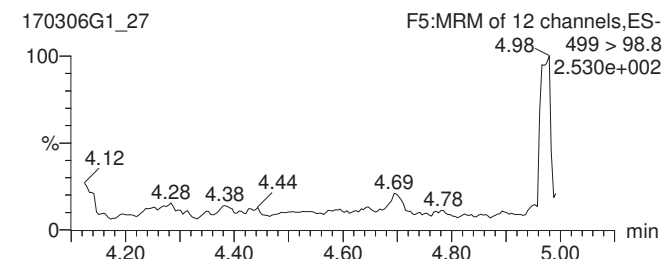
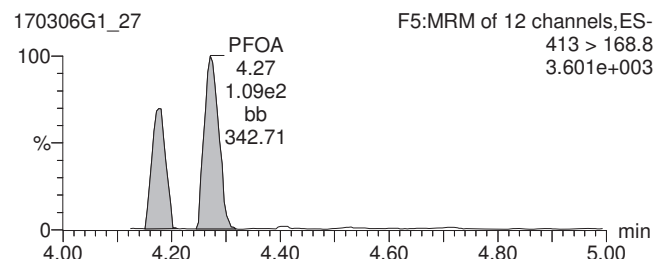
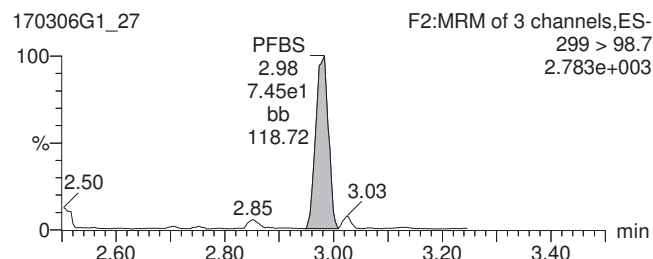
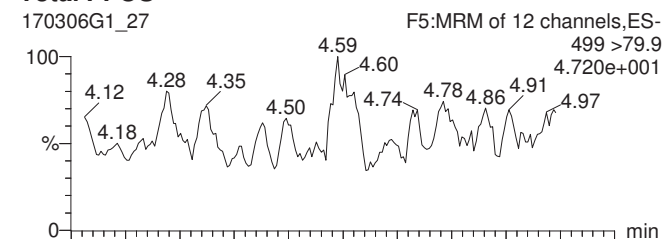
Total PFBS



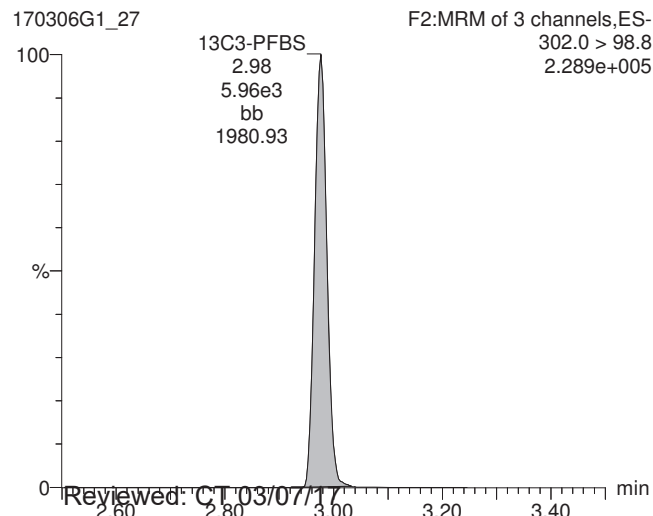
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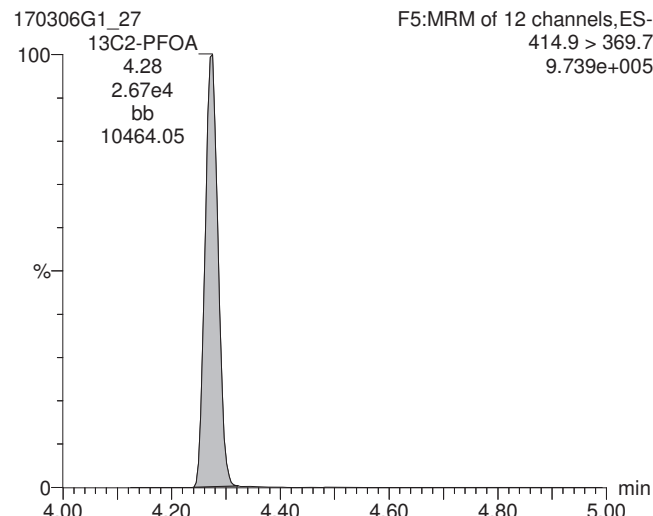
Total PFOS



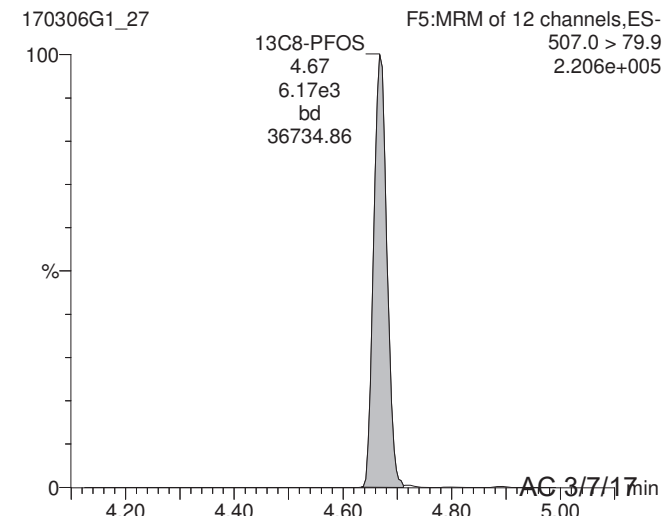
13C3-PFBS



13C2-PFOA



13C8-PFOS

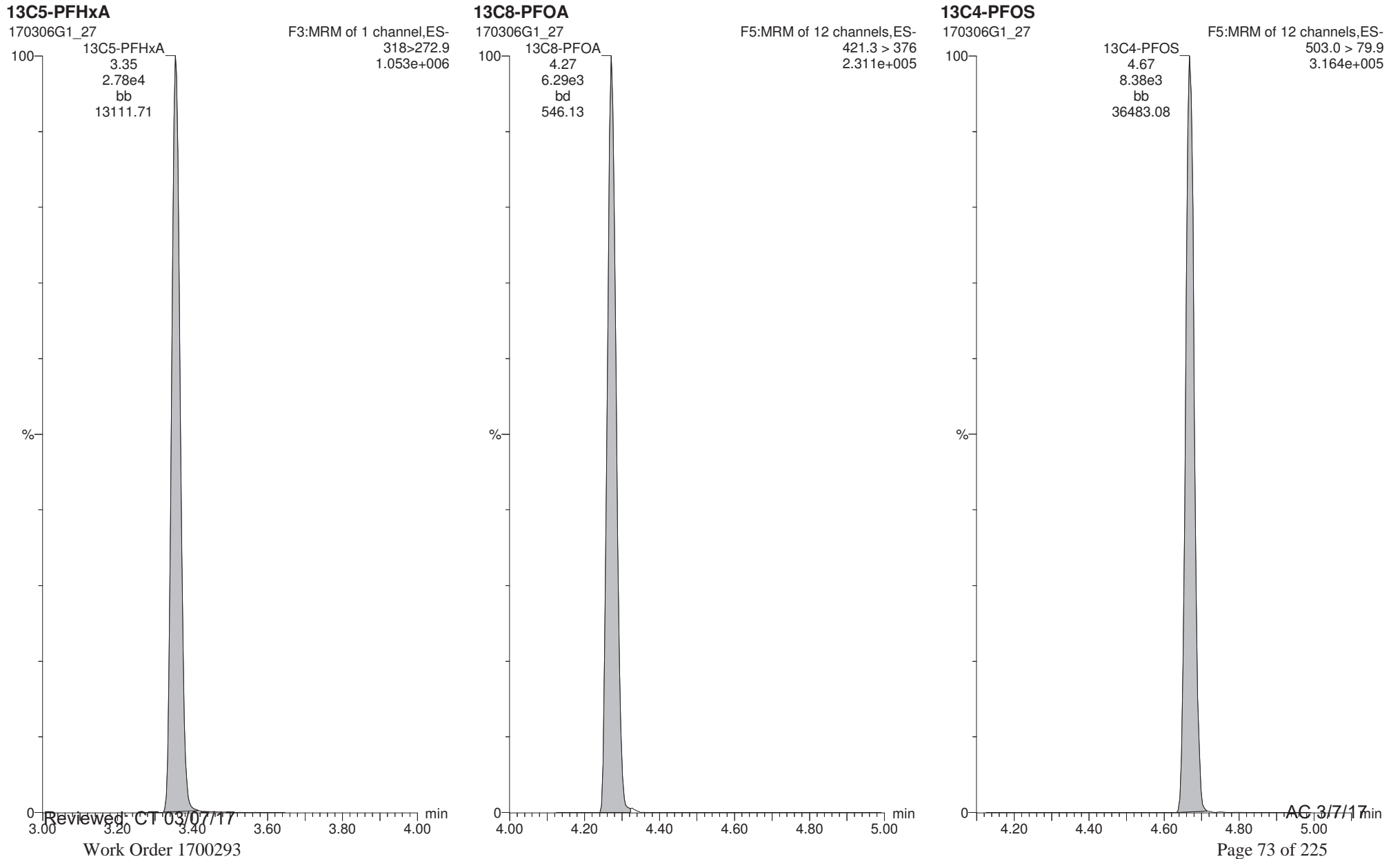


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Last Altered: Tuesday, March 07, 2017 11:29:20 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:29:46 AM Pacific Standard Time

ID: 1700293-08 WI-CV-GW08S-0317 0.125, Description: WI-CV-GW08S-0317, Name: 170306G1_27, Date: 06-Mar-2017, Time: 20:51:11, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-28.qld

Last Altered: Tuesday, March 07, 2017 11:30:54 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:31:17 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-09 WI-CV-FB01-030217 0.125, Description: WI-CV-FB01-030217, Name: 170306G1_28, Date: 06-Mar-2017, Time: 21:03:44

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		5.893e3		0.119			
2	4 PFOA	413 > 368.7	1.427e2	2.484e4		0.119	4.28		
3	6 PFOS	499 > 79.9		6.750e3		0.119			
4	7 13C3-PFBS	302.0 > 98.8	5.893e3	1.400e4	0.410	0.119	2.98	107	103
5	8 13C4-PFHxA	367.2 > 321.8	1.442e4	1.400e4	1.098	0.119	3.87	98.2	93.8
6	9 18O2-PFHxS	403 > 102.6	5.434e3	1.400e4	0.434	0.119	3.99	93.5	89.4
7	10 13C2-PFOA	414.9 > 369.7	2.484e4	6.276e3	4.608	0.119	4.28	89.9	85.9
8	11 13C5-PFNA	468.2 > 422.9	6.595e3	8.451e3	0.867	0.119	4.61	94.2	90.0
9	12 13C8-PFOS	507.0 > 79.9	6.750e3	8.381e3	0.958	0.119	4.67	88.0	84.0
10	13 13C5-PFHxA	318>272.9	2.735e4	2.735e4	1.000	0.119	3.35	105	100
11	14 13C3-PFHxS	401.9 > 79.9	1.400e4	1.400e4	1.000	0.119	3.99	105	100
12	15 13C8-PFOA	421.3 > 376	6.276e3	6.276e3	1.000	0.119	4.28	105	100
13	16 13C9-PFNA	472.2 > 426.9	8.451e3	8.451e3	1.000	0.119	4.61	105	100
14	17 13C4-PFOS	503.0 > 79.9	8.381e3	8.381e3	1.000	0.119	4.67	105	100
15	18 Total PFBS	299 > 79.7		5.434e3		0.119			
16	20 Total PFOA	413 > 368.7		2.484e4		0.119			
17	21 Total PFOS	499 > 79.9		6.750e3		0.119			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-28.qld

Last Altered: Tuesday, March 07, 2017 11:30:54 AM Pacific Standard Time

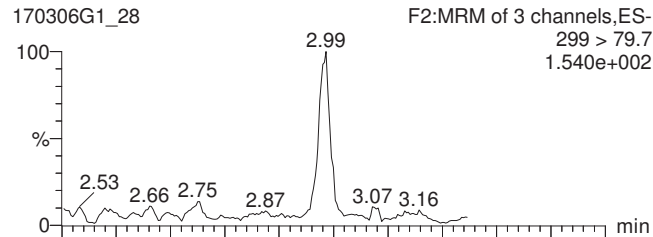
Printed: Tuesday, March 07, 2017 11:31:17 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

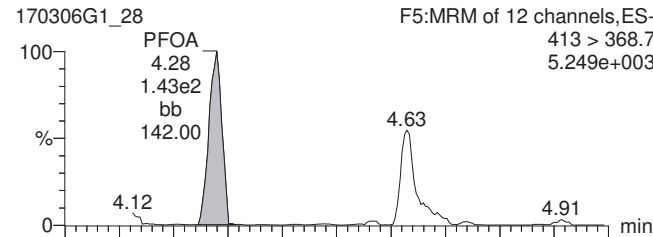
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ID: 1700293-09 WI-CV-FB01-030217 0.125, Description: WI-CV-FB01-030217, Name: 170306G1_28, Date: 06-Mar-2017, Time: 21:03:44, Instrument: , Lab: , User:

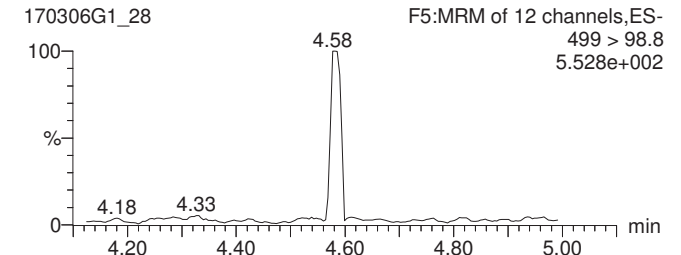
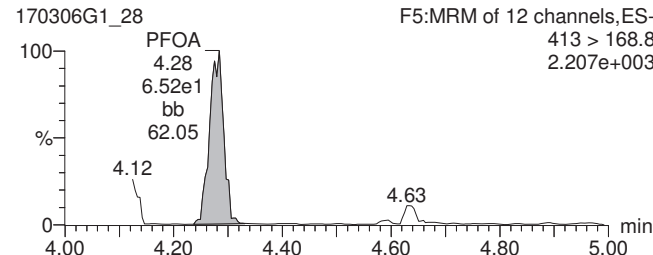
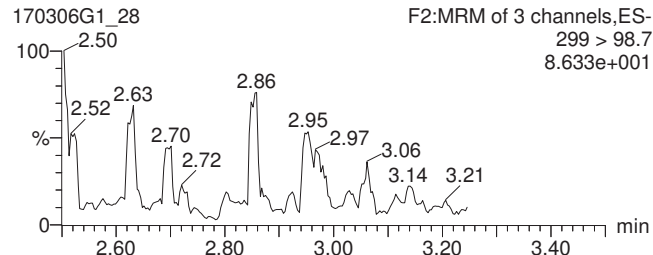
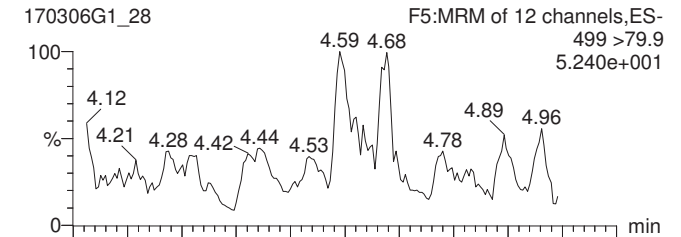
Total PFBS



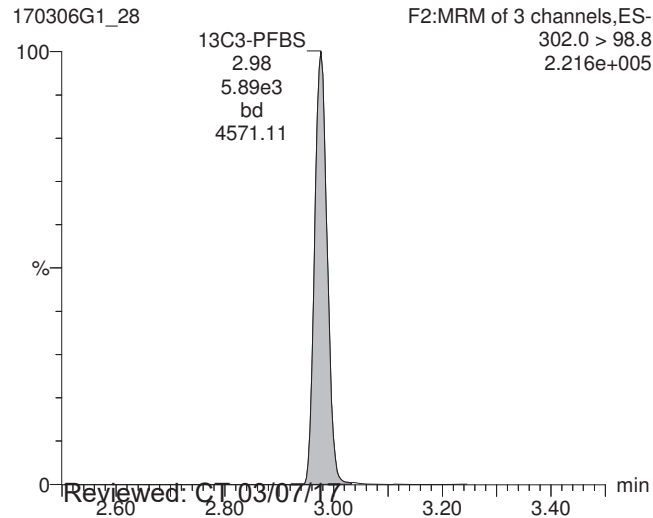
Total PFOA



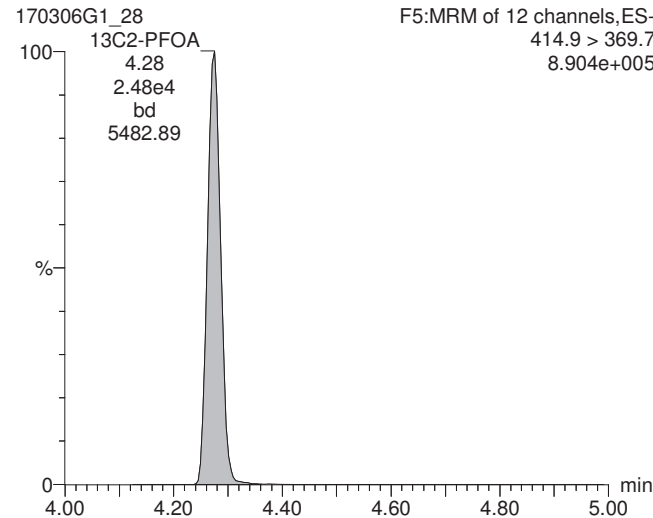
Total PFOS



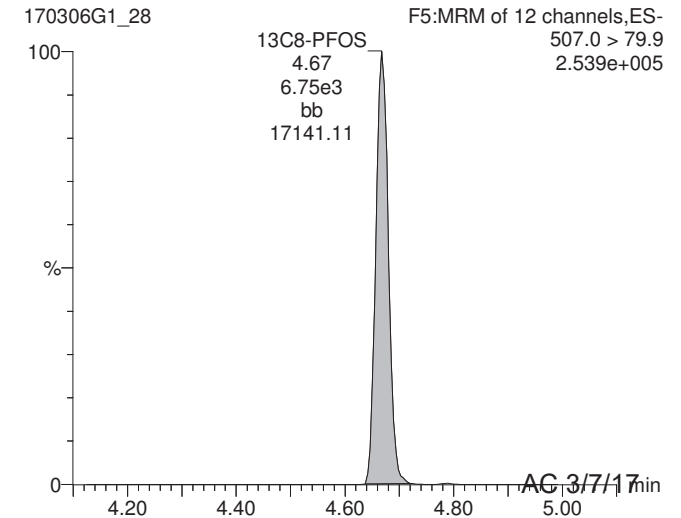
13C3-PFBS



13C2-PFOA



13C8-PFOS

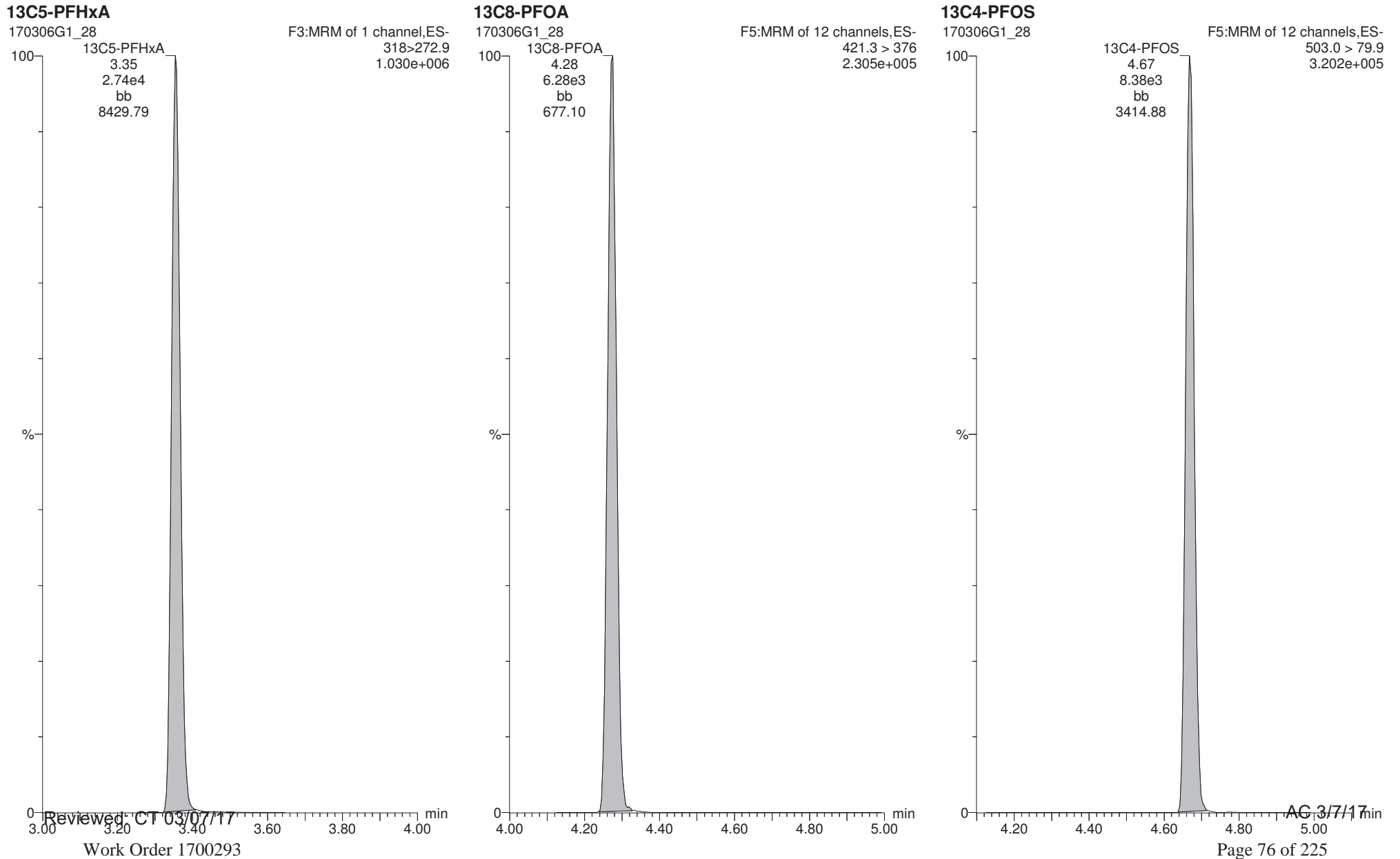


Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-28.qld

Last Altered: Tuesday, March 07, 2017 11:30:54 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:31:17 AM Pacific Standard Time

ID: 1700293-09 WI-CV-FB01-030217 0.125, Description: WI-CV-FB01-030217, Name: 170306G1_28, Date: 06-Mar-2017, Time: 21:03:44, Instrument: , Lab: , User:



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-29.qld

Last Altered: Tuesday, March 07, 2017 11:32:41 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:34:42 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-10 WI-CV-EB10-030217 0.125, Description: WI-CV-EB10-030217, Name: 170306G1_29, Date: 06-Mar-2017, Time: 21:16:17

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		5.813e3		0.0930			
2	4 PFOA	413 > 368.7	1.689e2	2.768e4		0.0930	4.28		
3	6 PFOS	499 >79.9		7.807e3		0.0930			
4	7 13C3-PFBS	302.0 > 98.8	5.813e3	1.349e4	0.410	0.0930	2.98	141	105
5	8 13C4-PFHxA	367.2 > 321.8	1.483e4	1.349e4	1.098	0.0930	3.87	135	100
6	9 18O2-PFHxS	403 > 102.6	5.845e3	1.349e4	0.434	0.0930	3.99	134	99.8
7	10 13C2-PFOA	414.9 > 369.7	2.768e4	6.501e3	4.608	0.0930	4.28	124	92.4
8	11 13C5-PFNA	468.2 > 422.9	6.298e3	8.369e3	0.867	0.0930	4.61	117	86.8
9	12 13C8-PFOS	507.0 > 79.9	7.807e3	8.402e3	0.958	0.0930	4.67	130	97.0
10	13 13C5-PFHxA	318>272.9	2.716e4	2.716e4	1.000	0.0930	3.36	134	100
11	14 13C3-PFHxS	401.9 > 79.9	1.349e4	1.349e4	1.000	0.0930	3.99	134	100
12	15 13C8-PFOA	421.3 > 376	6.501e3	6.501e3	1.000	0.0930	4.27	134	100
13	16 13C9-PFNA	472.2 > 426.9	8.369e3	8.369e3	1.000	0.0930	4.61	134	100
14	17 13C4-PFOS	503.0 > 79.9	8.402e3	8.402e3	1.000	0.0930	4.67	134	100
15	18 Total PFBS	299 > 79.7		5.845e3		0.0930			
16	20 Total PFOA	413 > 368.7		2.768e4		0.0930			
17	21 Total PFOS	499 > 79.9		7.807e3		0.0930			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-29.qld

Last Altered: Tuesday, March 07, 2017 11:32:41 AM Pacific Standard Time

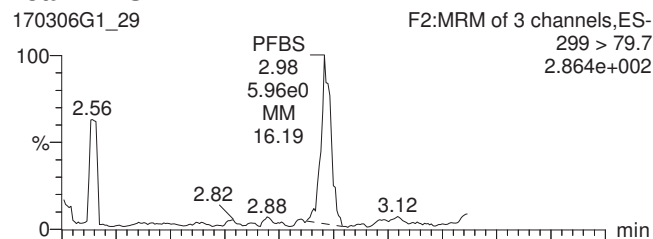
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Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

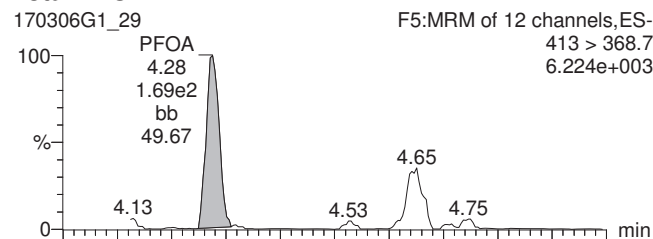
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-10 WI-CV-EB10-030217 0.125, Description: WI-CV-EB10-030217, Name: 170306G1_29, Date: 06-Mar-2017, Time: 21:16:17, Instrument: , Lab: , User:

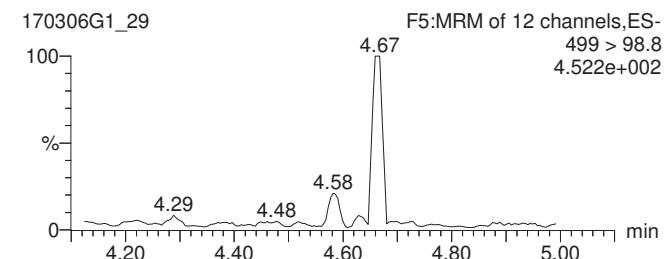
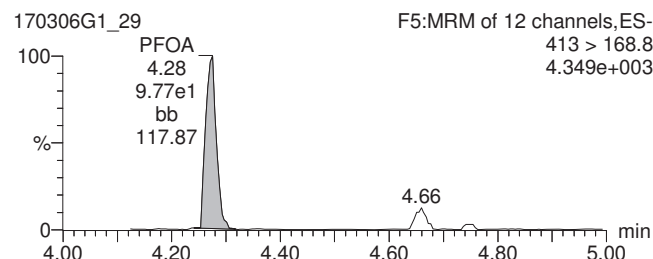
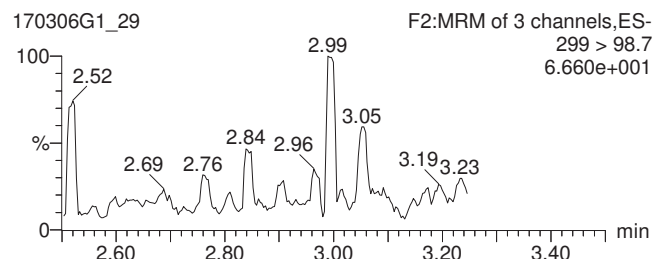
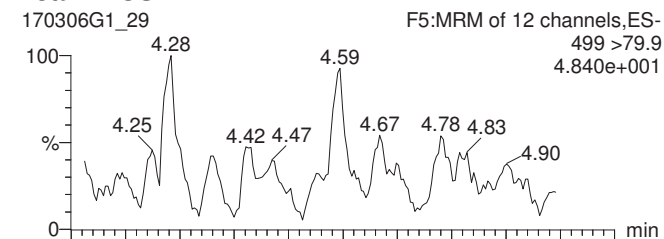
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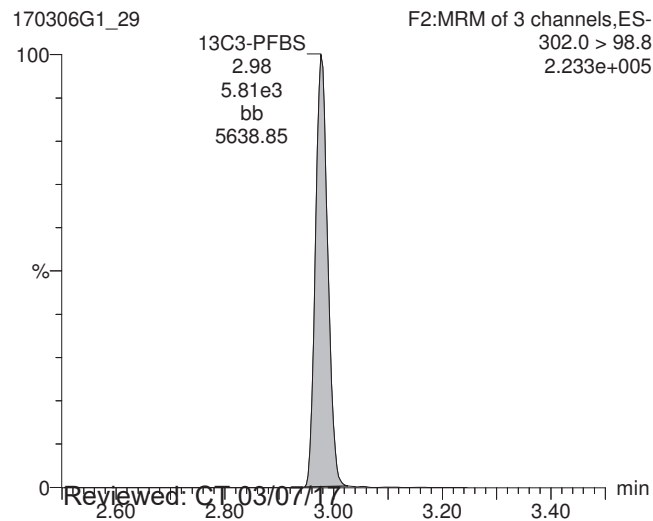
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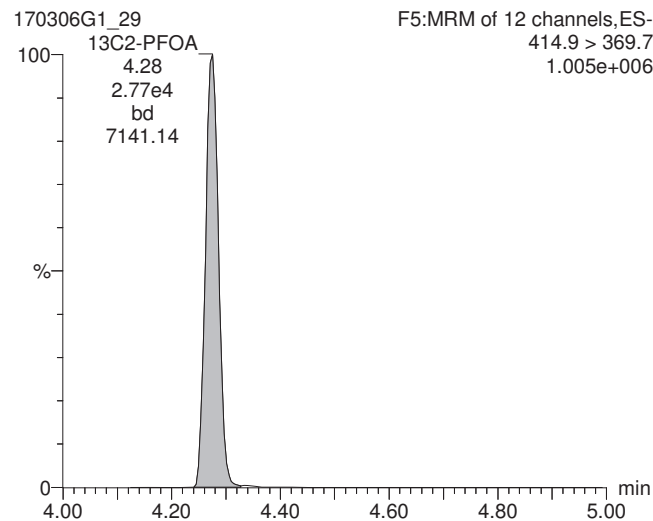
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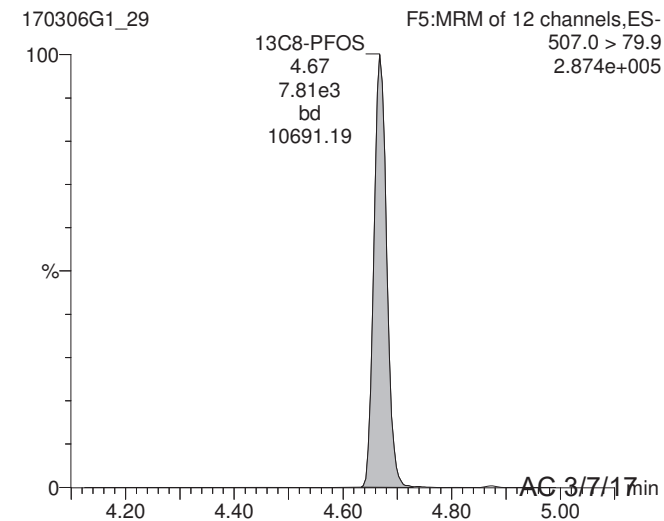
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: CT 03/07/17

AC 3/7/17

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-29.qld

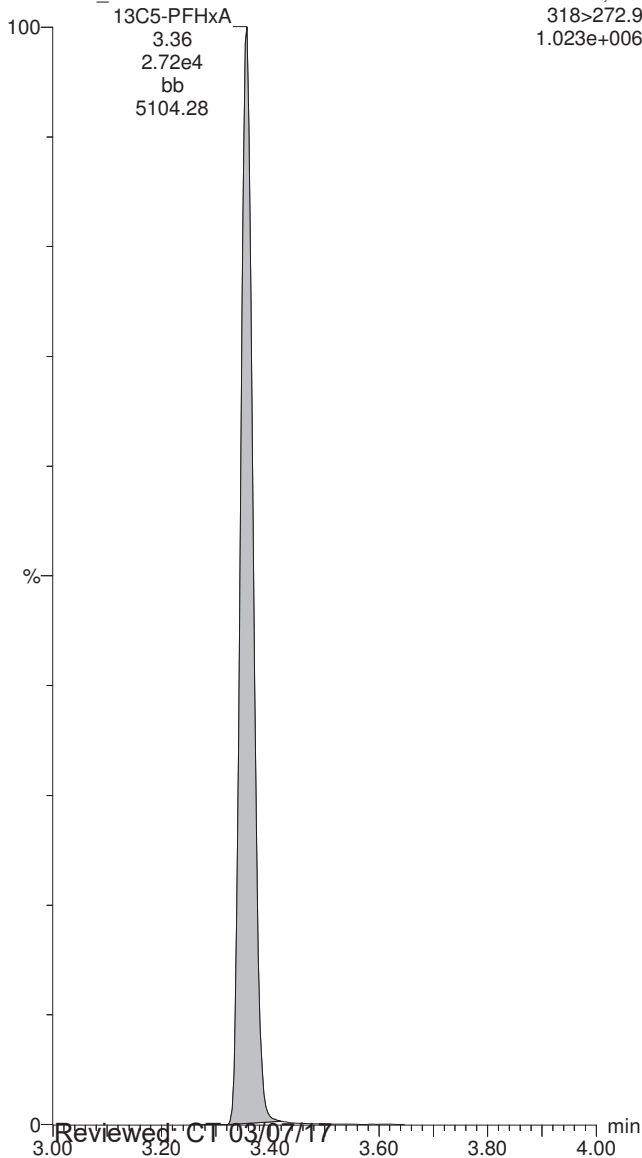
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Printed: Tuesday, March 07, 2017 11:34:42 AM Pacific Standard Time

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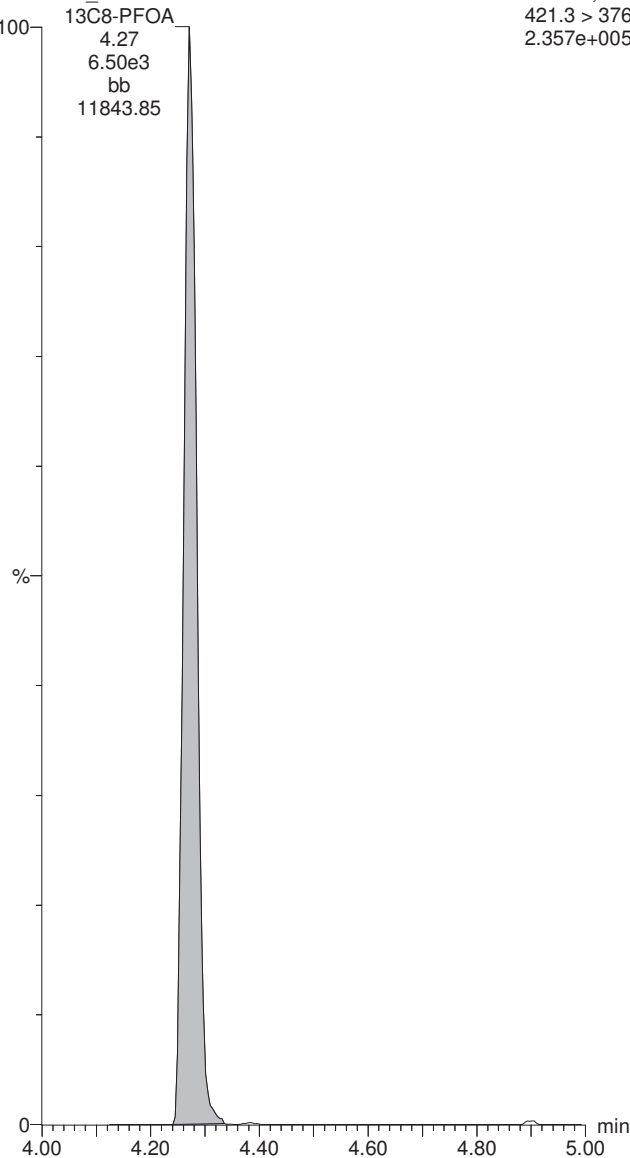
13C5-PFHxA

170306G1_29



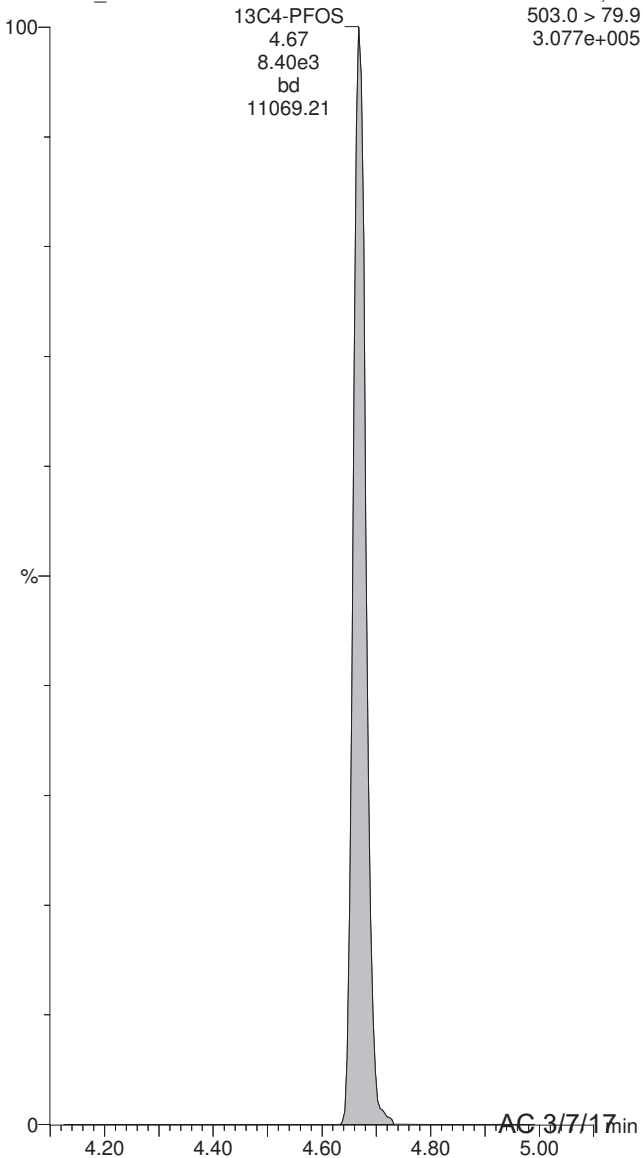
13C8-PFOA

170306G1_29



13C4-PFOS

170306G1_29



Reviewed: 03/07/17

Work Order 1700293

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Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-30.qld

Last Altered: Tuesday, March 07, 2017 11:36:54 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:37:12 AM Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

ID: 1700293-11 WI-CV-EB11-030217 0.125, Description: WI-CV-EB11-030217, Name: 170306G1_30, Date: 06-Mar-2017, Time: 21:28:51

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		5.779e3		0.118			
2	4 PFOA	413 > 368.7	1.611e2	2.543e4		0.118	4.28		
3	6 PFOS	499 >79.9		6.601e3		0.118			
4	7 13C3-PFBS	302.0 > 98.8	5.779e3	1.365e4	0.410	0.118	2.98	109	103
5	8 13C4-PFHpA	367.2 > 321.8	1.416e4	1.365e4	1.098	0.118	3.87	99.9	94.5
6	9 18O2-PFHxS	403 > 102.6	5.721e3	1.365e4	0.434	0.118	3.99	102	96.5
7	10 13C2-PFOA	414.9 > 369.7	2.543e4	6.493e3	4.608	0.118	4.28	89.9	85.0
8	11 13C5-PFNA	468.2 > 422.9	4.853e3	7.841e3	0.867	0.118	4.61	75.5	71.4
9	12 13C8-PFOS	507.0 > 79.9	6.601e3	7.062e3	0.958	0.118	4.67	103	97.5
10	13 13C5-PFHxA	318>272.9	2.797e4	2.797e4	1.000	0.118	3.35	106	100
11	14 13C3-PFHxS	401.9 > 79.9	1.365e4	1.365e4	1.000	0.118	3.99	106	100
12	15 13C8-PFOA	421.3 > 376	6.493e3	6.493e3	1.000	0.118	4.27	106	100
13	16 13C9-PFNA	472.2 > 426.9	7.841e3	7.841e3	1.000	0.118	4.61	106	100
14	17 13C4-PFOS	503.0 > 79.9	7.062e3	7.062e3	1.000	0.118	4.67	106	100
15	18 Total PFBS	299 > 79.7		5.721e3		0.118			
16	20 Total PFOA	413 > 368.7		2.543e4		0.118			
17	21 Total PFOS	499 > 79.9		6.601e3		0.118			

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-30.qld

Last Altered: Tuesday, March 07, 2017 11:36:54 AM Pacific Standard Time

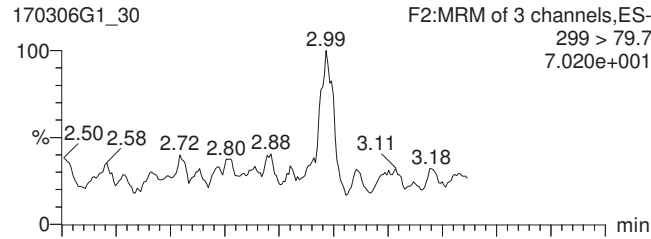
Printed: Tuesday, March 07, 2017 11:37:12 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2_NEW.mdb 07 Mar 2017 09:58:54

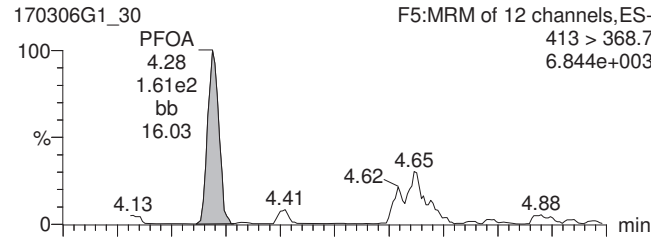
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ID: 1700293-11 WI-CV-EB11-030217 0.125, Description: WI-CV-EB11-030217, Name: 170306G1_30, Date: 06-Mar-2017, Time: 21:28:51, Instrument: , Lab: , User:

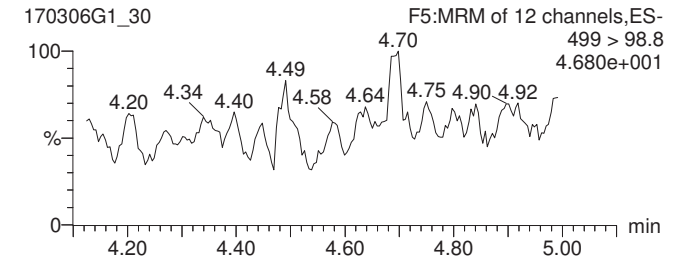
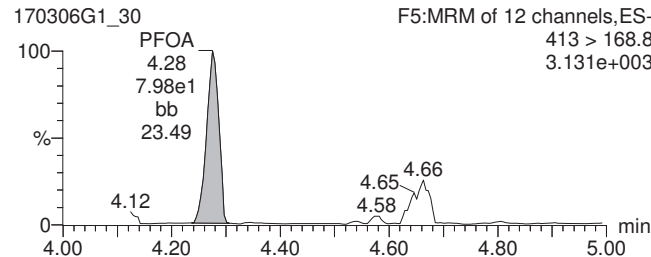
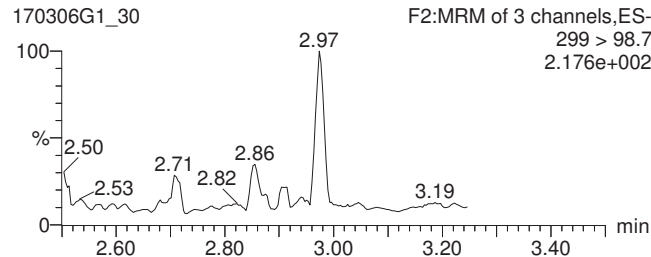
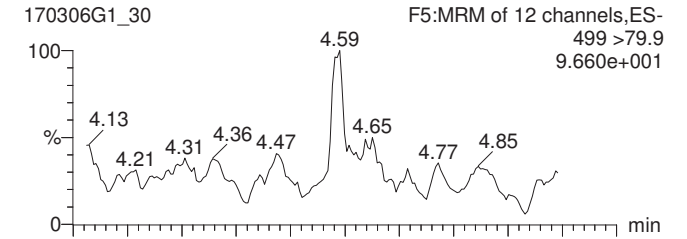
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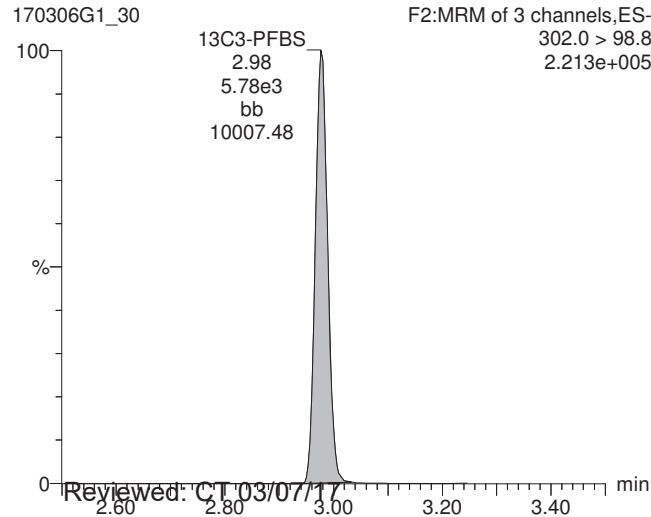
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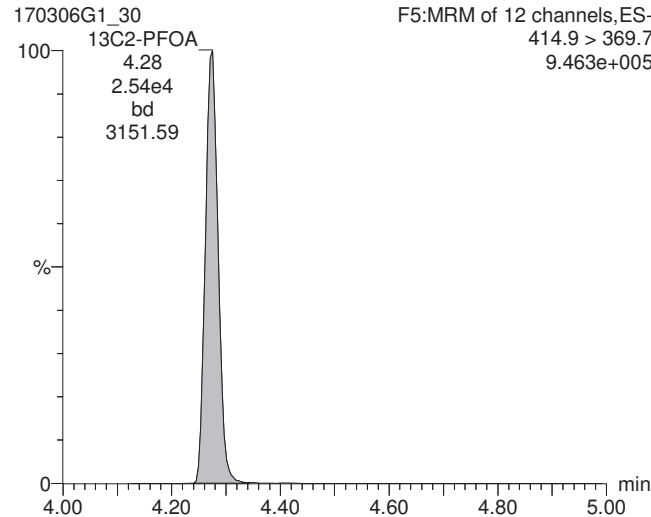
Total PFOS



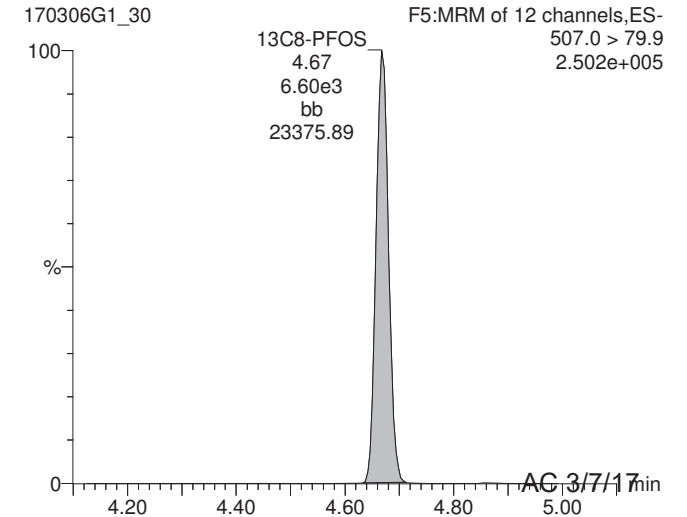
13C3-PFBS



13C2-PFOA



13C8-PFOS



Reviewed: CT 03/07/17

Work Order 1700293

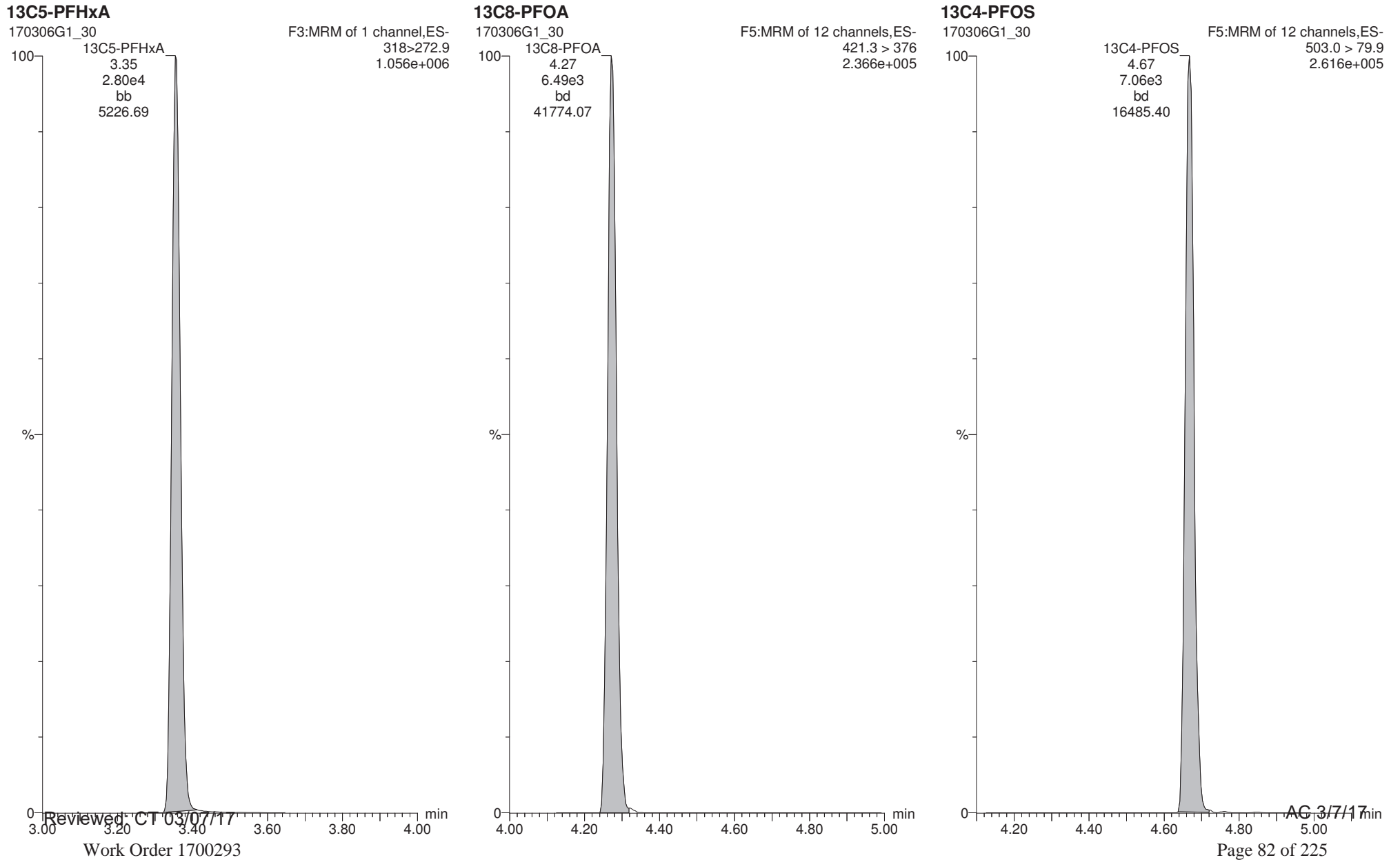
AC 3/7/17

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-30.qld

Last Altered: Tuesday, March 07, 2017 11:36:54 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 11:37:12 AM Pacific Standard Time

ID: 1700293-11 WI-CV-EB11-030217 0.125, Description: WI-CV-EB11-030217, Name: 170306G1_30, Date: 06-Mar-2017, Time: 21:28:51, Instrument: , Lab: , User:



CONTINUING CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-2.qld

Last Altered: Tuesday, March 07, 2017 09:06:49 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:09:59 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170306G1_2, Date: 06-Mar-2017, Time: 15:37:57, ID: ST170306G1-1 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.26e4	6.88e3		1.000	3.05	9.60	96.0
2	2 PFHpA	363 > 318.9	2.81e4	1.84e4		1.000	3.94	10.6	105.7
3	3 PFHxS	398.9 > 79.6	1.15e4	7.26e3		1.000	4.05	10.9	109.0
4	4 PFOA	413 > 368.7	2.77e4	3.55e4		1.000	4.33	12.1	120.5
5	5 PFNA	463 > 418.8	2.11e4	9.36e3		1.000	4.66	10.3	102.8
6	6 PFOS	499 > 79.9	3.60e3	8.36e3		1.000	4.72	10.1	101.0
7	7 13C3-PFBS	302.0 > 98.8	6.88e3	1.78e4	0.410	1.000	3.05	11.8	94.3
8	8 13C4-PFHpA	367.2 > 321.8	1.84e4	1.78e4	1.098	1.000	3.94	11.8	94.0
9	9 18O2-PFHxS	403 > 102.6	7.26e3	1.78e4	0.434	1.000	4.05	11.7	93.9
10	10 13C2-PFOA	414.9 > 369.7	3.55e4	9.87e3	4.608	1.000	4.33	9.77	78.1
11	11 13C5-PFNA	468.2 > 422.9	9.36e3	1.07e4	0.867	1.000	4.66	12.6	101.0
12	12 13C8-PFOS	507.0 > 79.9	8.36e3	9.12e3	0.958	1.000	4.72	12.0	95.7
13	13 13C5-PFHxA	318 > 272.9	3.02e4	3.02e4	1.000	1.000	3.44	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.78e4	1.78e4	1.000	1.000	4.05	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	9.87e3	9.87e3	1.000	1.000	4.33	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.07e4	1.07e4	1.000	1.000	4.66	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	9.12e3	9.12e3	1.000	1.000	4.72	12.5	100.0

75-125
↓
60-150
↓
50-150
60-150

AC
3/7/17

✓ 8 3/7/17

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 9:31:27 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 9:32:15 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170306G1_1	IPA	06-Mar-17	14:49:33
2	170306G1_2	ST170306G1-1 PFC CS3 17C0612	06-Mar-17	15:37:57
3	170306G1_3	IPA	06-Mar-17	15:50:07
4	170306G1_4	B7C0003-BS1 OPR 0.125	06-Mar-17	16:02:38
5	170306G1_5	B7C0015-BS1 OPR 0.125	06-Mar-17	16:15:10
6	170306G1_6	B7C0017-BS1 OPR 0.125	06-Mar-17	16:27:44
7	170306G1_7	IPA	06-Mar-17	16:40:16
8	170306G1_8	B7C0003-BLK1 Method Blank 0.125	06-Mar-17	16:52:50
9	170306G1_9	B7C0015-BLK1 Method Blank 0.125	06-Mar-17	17:05:23
10	170306G1_10	B7C0017-BLK1 Method Blank 0.125	06-Mar-17	17:17:56
11	170306G1_11	1700268-01 WI-CV-GW09M-0217 0.12317	06-Mar-17	17:30:29
12	170306G1_12	1700268-03 WI-CV-GW05S-0217 0.12246	06-Mar-17	17:43:02
13	170306G1_13	1700268-05 WI-CV-GW11S-0217 0.12773	06-Mar-17	17:55:31
14	170306G1_14	1700268-07 WI-CV-EB06-022617 0.10638	06-Mar-17	18:08:03
15	170306G1_15	1700268-08 WI-CV-EB05-022417 0.12657	06-Mar-17	18:20:37
16	170306G1_16	1700263-04RE1 OW2C-MW25-0217 0.12534	06-Mar-17	18:33:10
17	170306G1_17	1700293-01 WI-CV-GW02S-0317 0.125	06-Mar-17	18:45:44
18	170306G1_18	1700293-02 WI-CV-GW02S/SP-0317 0.125	06-Mar-17	18:58:16
19	170306G1_19	1700293-03 WI-CV-GW04S-0317 0.125	06-Mar-17	19:10:50
20	170306G1_20	1700293-04 WI-CV-GW04S/SP-0317 0.125	06-Mar-17	19:23:25
21	170306G1_21	IPA	06-Mar-17	19:35:53
22	170306G1_22	ST170306G1-2 PFC CS3 17C0612	06-Mar-17	19:48:29
23	170306G1_23	IPA	06-Mar-17	20:00:59
24	170306G1_24	1700293-05 WI-CV-GW02M-0317 0.125	06-Mar-17	20:13:35
25	170306G1_25	1700293-06 WI-CV-GW12D-0317 0.125	06-Mar-17	20:26:04
26	170306G1_26	1700293-07 WI-CV-EB09-030117 0.125	06-Mar-17	20:38:37
27	170306G1_27	1700293-08 WI-CV-GW08S-0317 0.125	06-Mar-17	20:51:11
28	170306G1_28	1700293-09 WI-CV-FB01-030217 0.125	06-Mar-17	21:03:44
29	170306G1_29	1700293-10 WI-CV-EB10-030217 0.125	06-Mar-17	21:16:17
30	170306G1_30	1700293-11 WI-CV-EB11-030217 0.125	06-Mar-17	21:28:51
31	170306G1_31	B7C0017-MS1 Matrix Spike 0.125	06-Mar-17	21:41:24

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 9:31:27 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 9:32:15 AM Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170306G1_32	B7C0017-MSD1 Matrix Spike Dup 0.125	06-Mar-17	21:53:53
33	170306G1_33	IPA	06-Mar-17	22:06:26
34	170306G1_34	ST170306G1-3 PFC CS3 17C0612	06-Mar-17	22:19:02
35	170306G1_35	IPA	06-Mar-17	22:31:42

LC Calibration Standards Review Checklist

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Calibration ID:	LMH	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	N/A
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Full Mass Cal. Date: 12/7/16

Run Log Present:

of Samples per Sequence Checked:

Reviewed By: 28 3/7/17
Initials/Date

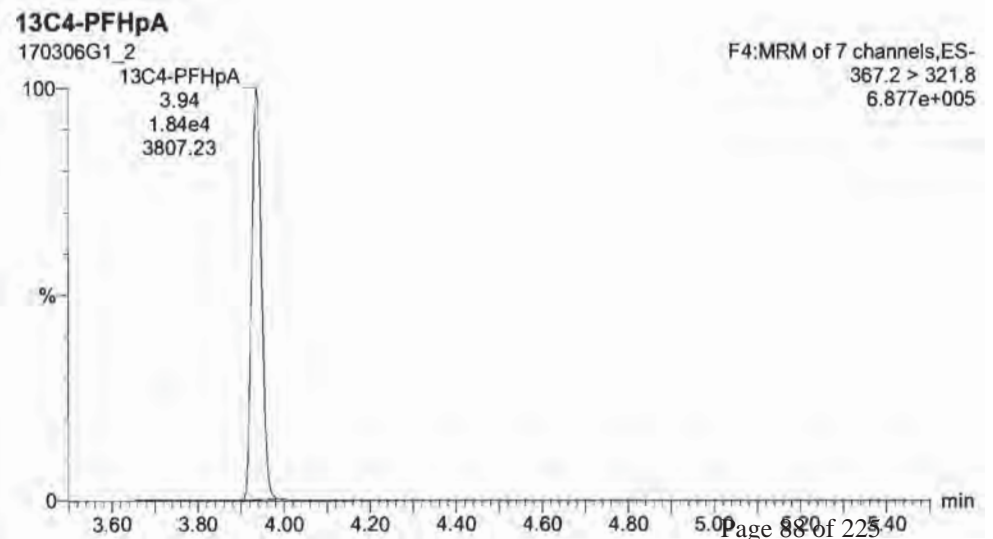
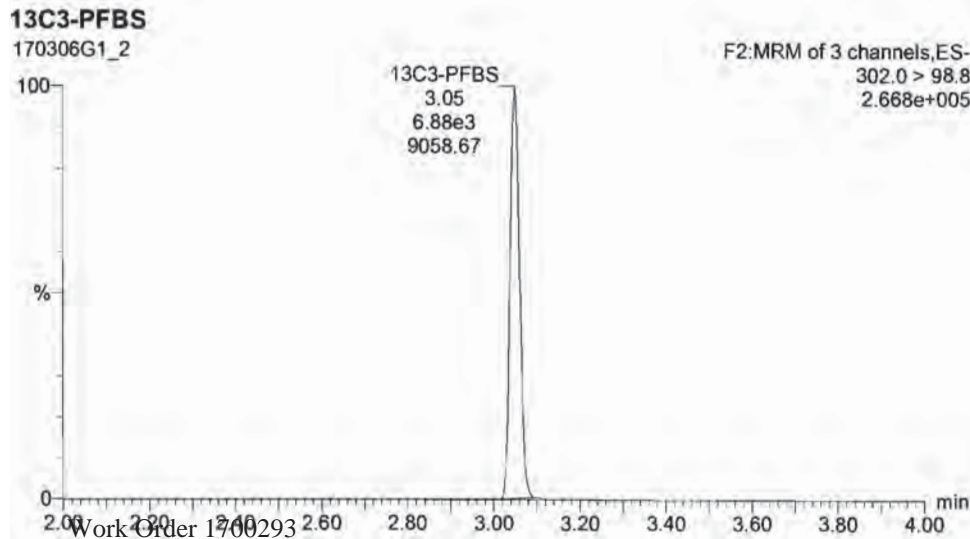
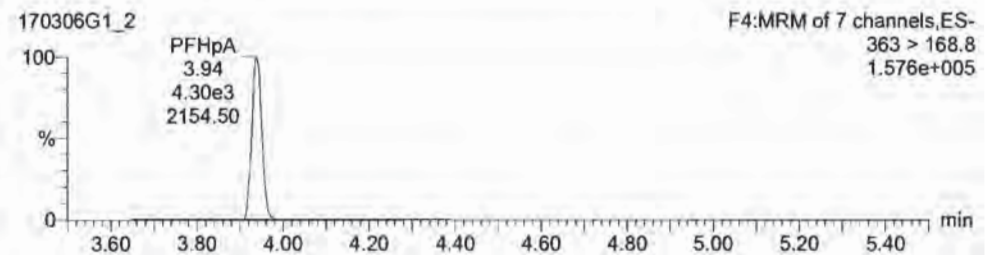
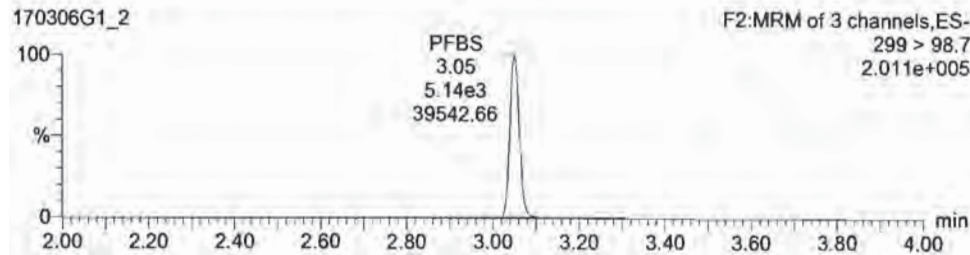
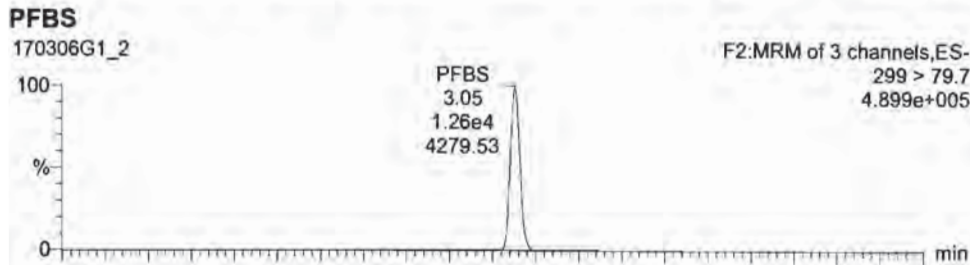
Comments:
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Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:00:41 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:00:55 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170306G1_2, Date: 06-Mar-2017, Time: 15:37:57, ID: ST170306G1-1 PFC CS3 17C0612, Description: PFC CS3 17C0612 A



Dataset: Untitled

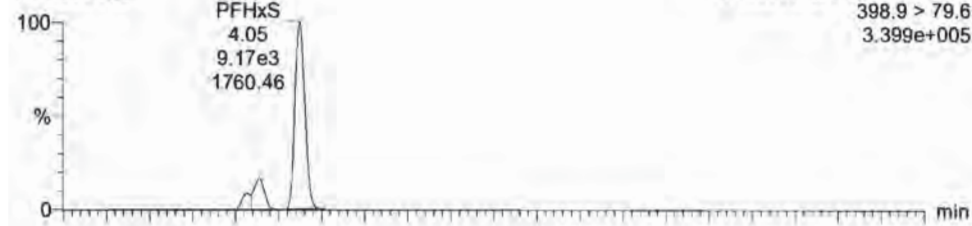
Last Altered: Tuesday, March 07, 2017 09:00:41 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:00:55 Pacific Standard Time

Name: 170306G1_2, Date: 06-Mar-2017, Time: 15:37:57, ID: ST170306G1-1 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

PFHxS

170306G1_2

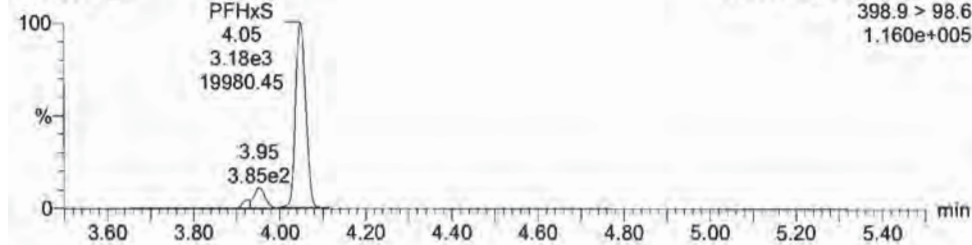


PFOA

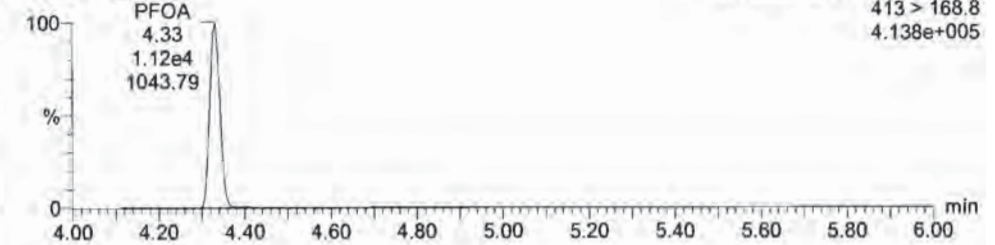
170306G1_2



170306G1_2

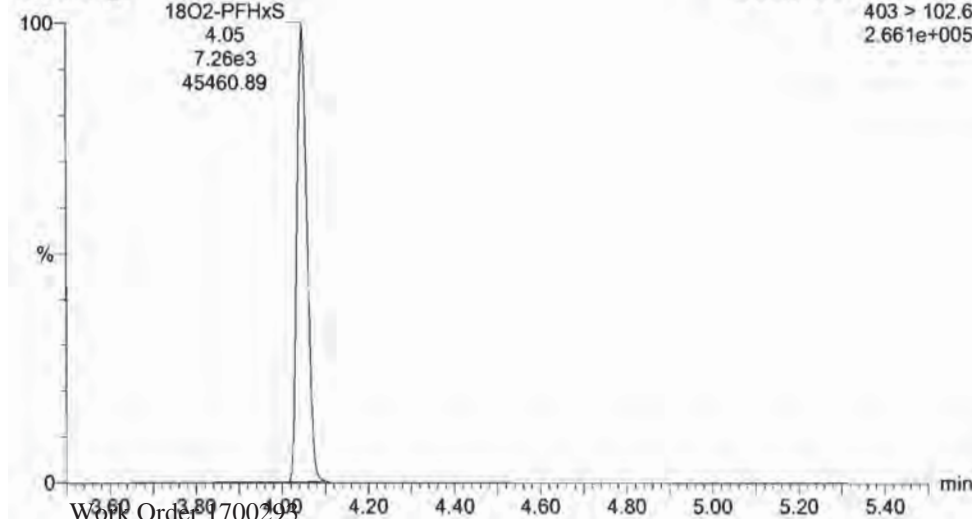


170306G1_2



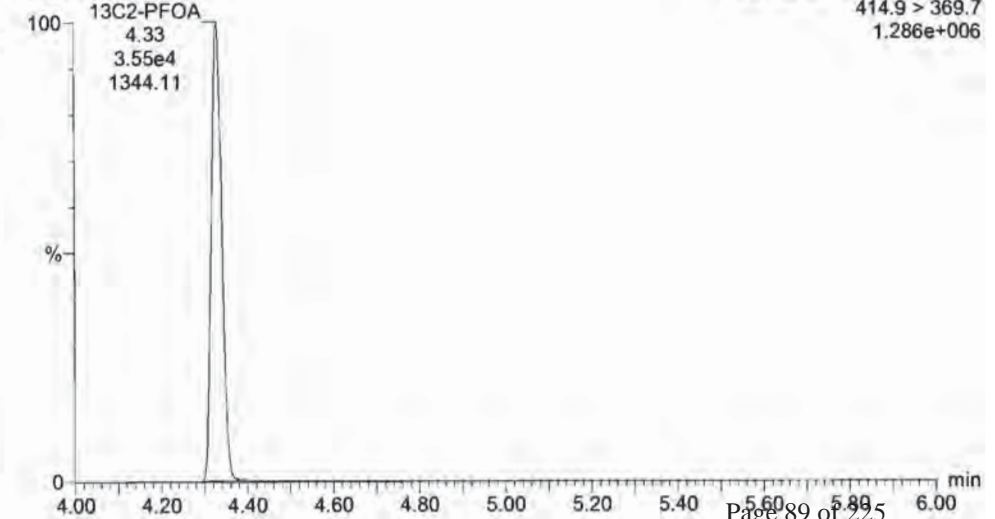
18O2-PFHxS

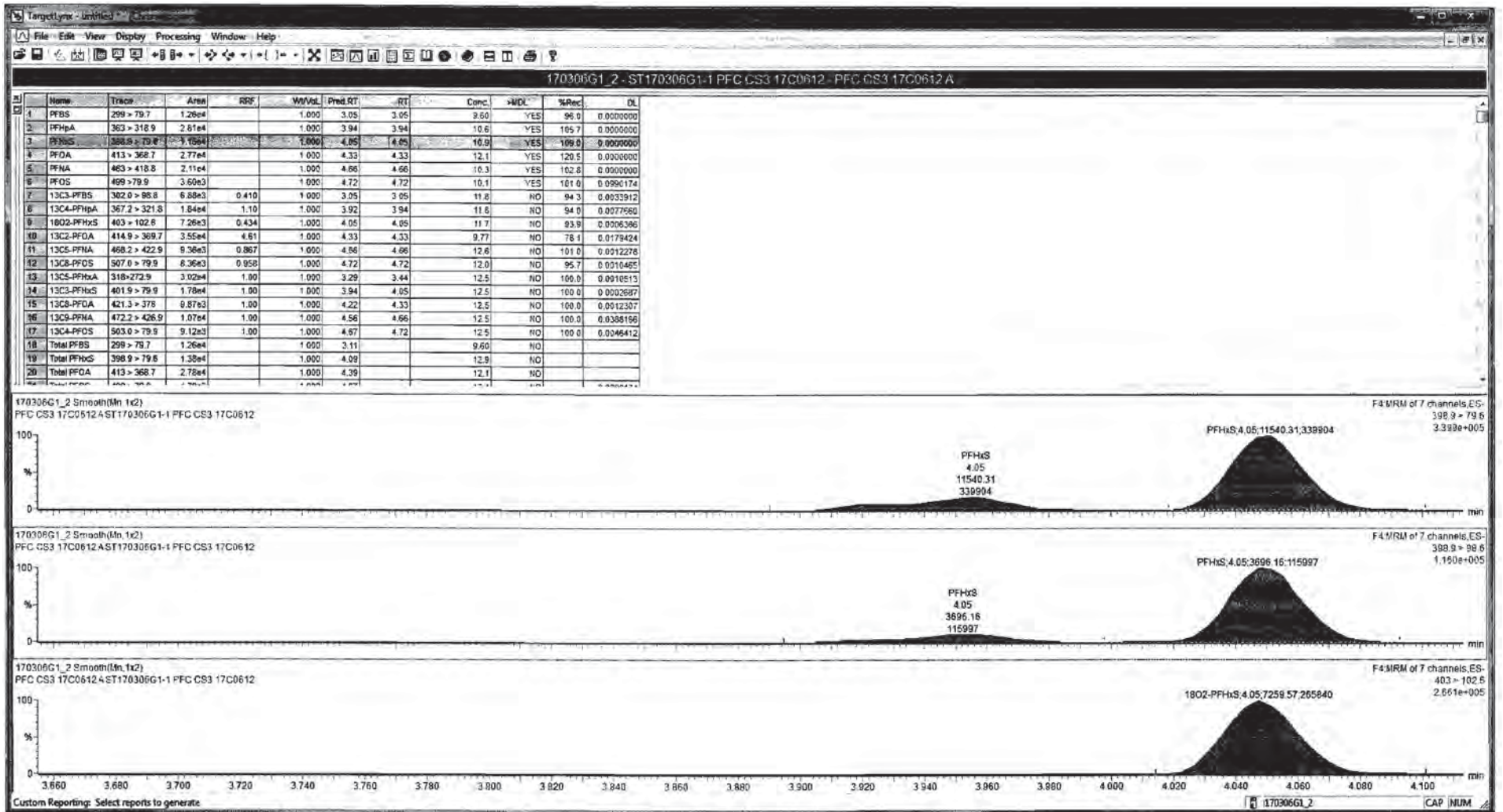
170306G1_2



13C2-PFOA

170306G1_2



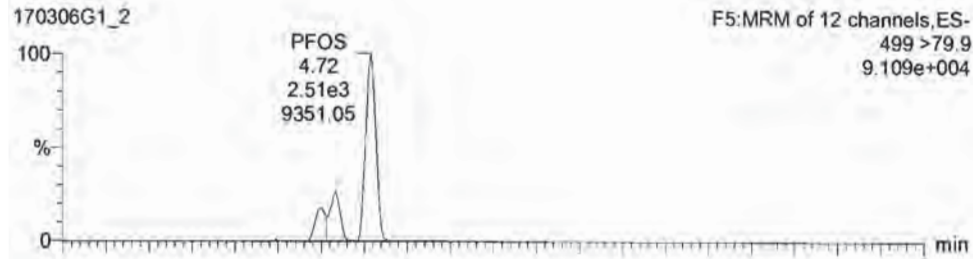


Dataset: Untitled

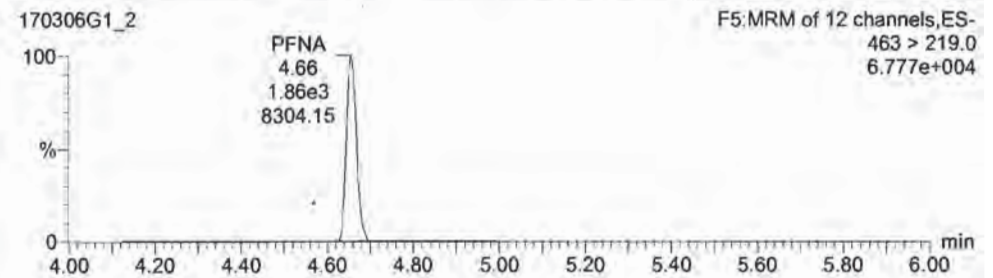
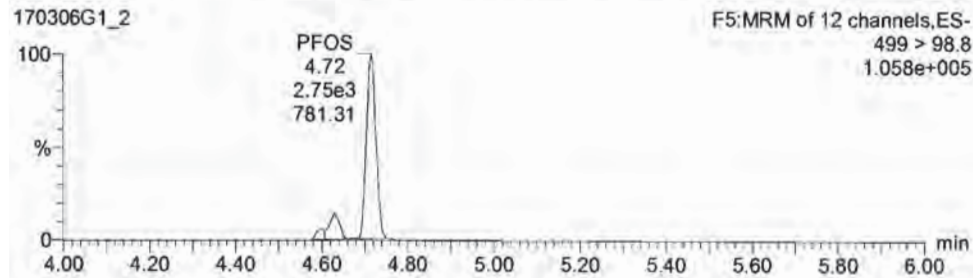
Last Altered: Tuesday, March 07, 2017 09:00:41 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:00:55 Pacific Standard Time

Name: 170306G1_2, Date: 06-Mar-2017, Time: 15:37:57, ID: ST170306G1-1 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

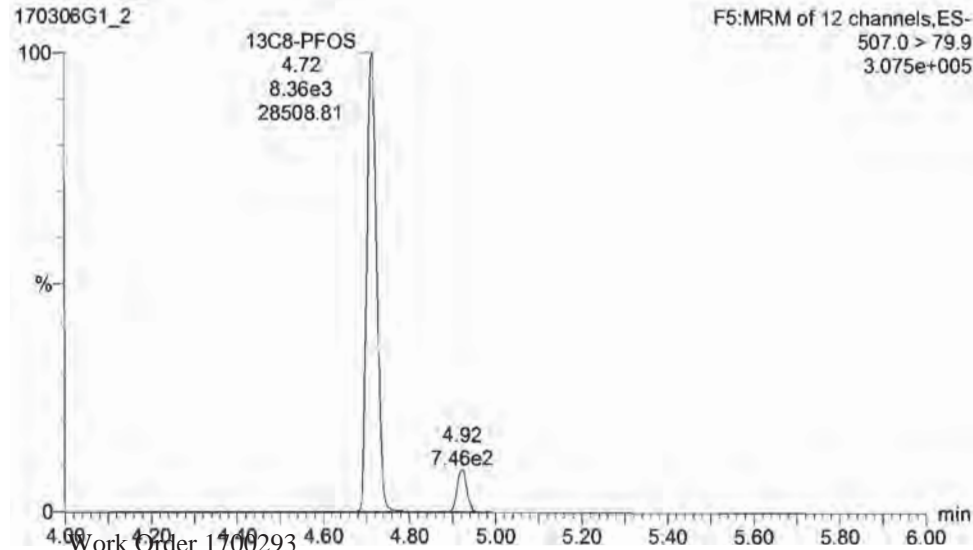
PFOS



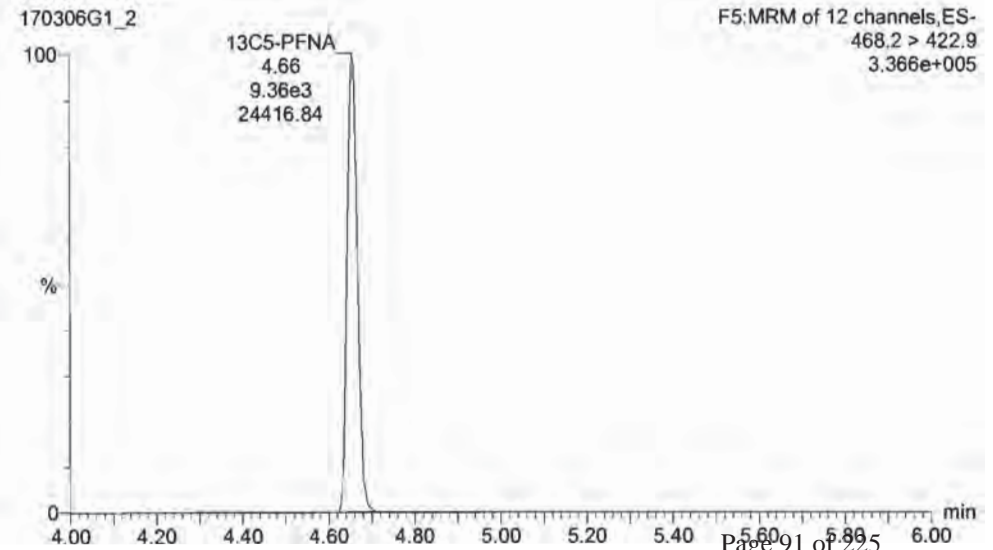
PFNA

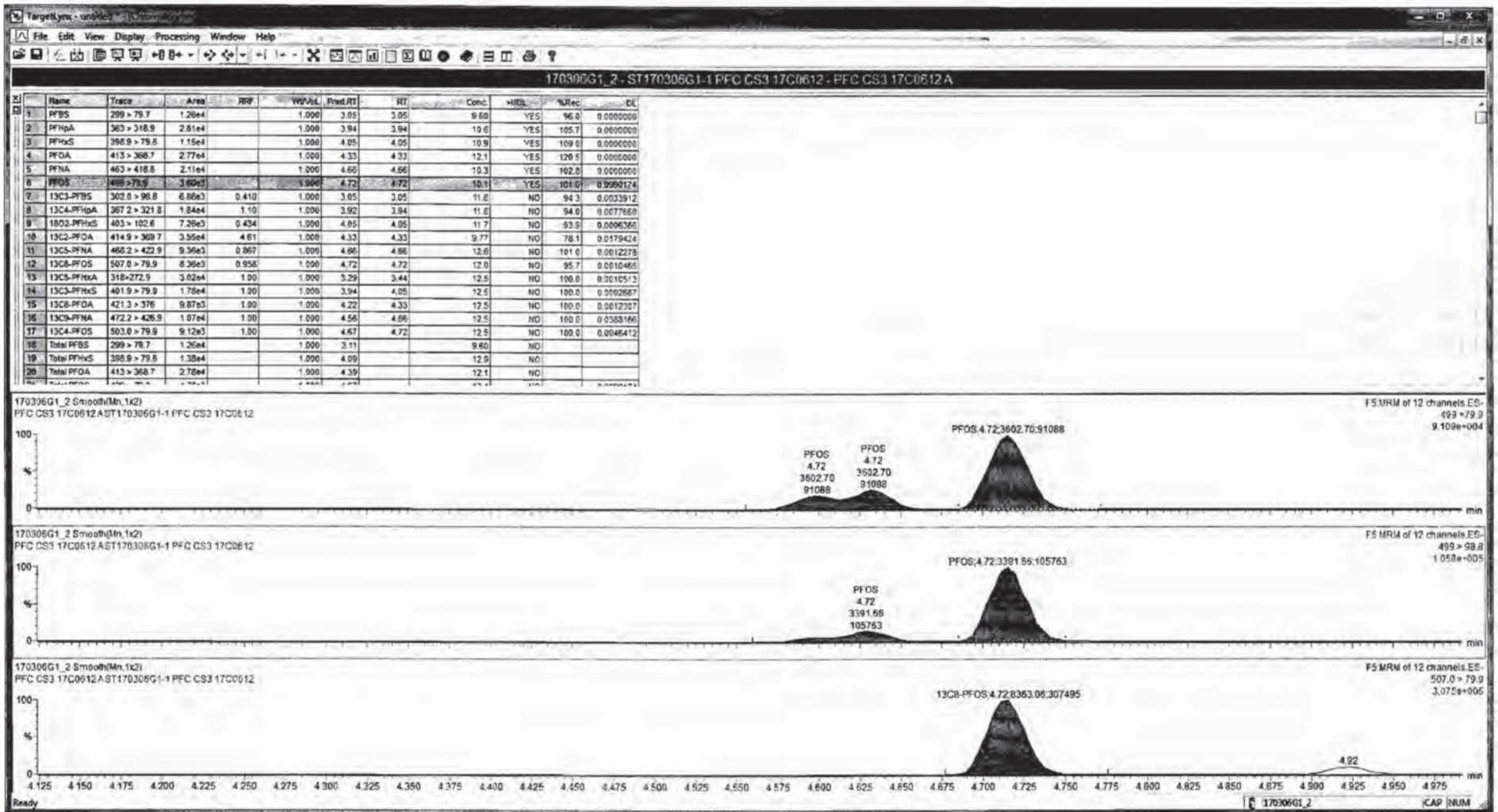


13C8-PFOS



13C5-PFNA





Dataset: Untitled

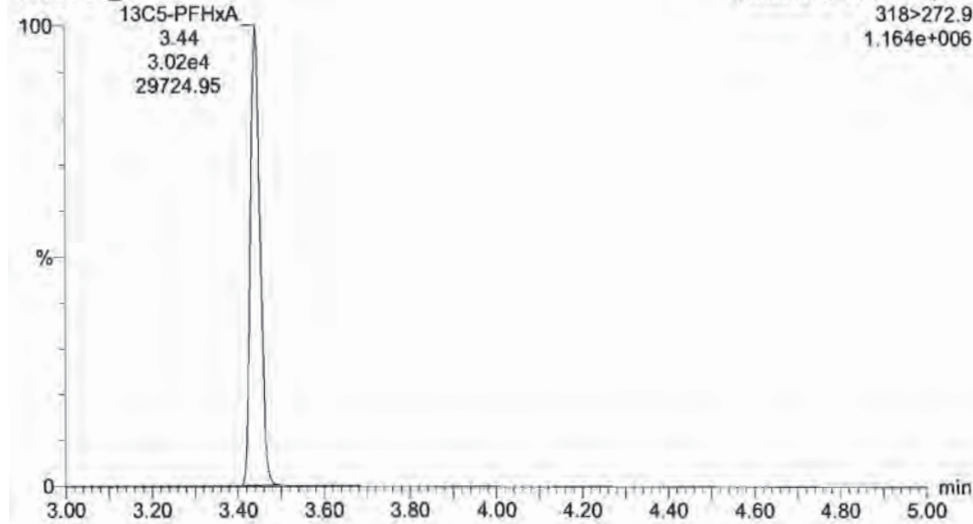
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Printed: Tuesday, March 07, 2017 09:00:55 Pacific Standard Time

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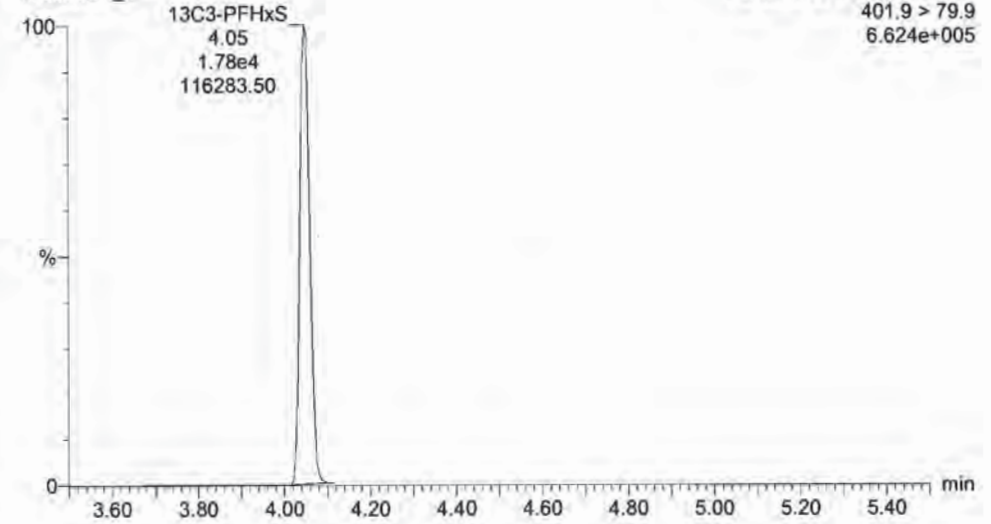
13C5-PFHxA

170306G1_2



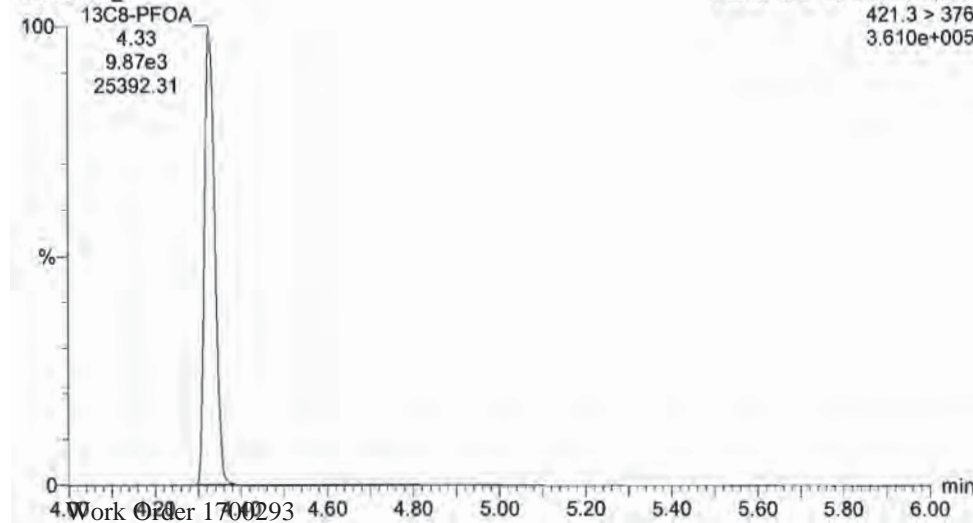
13C3-PFHxS

170306G1_2



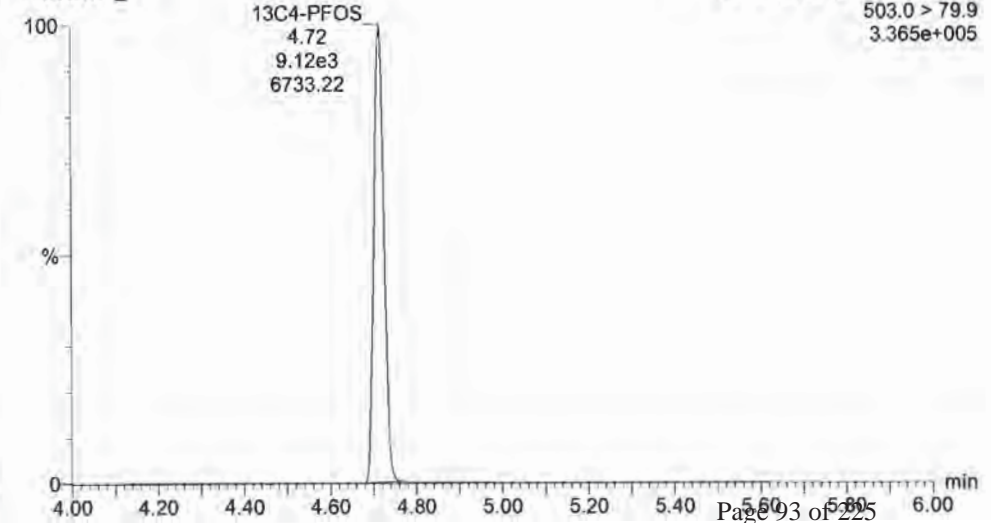
13C8-PFOA

170306G1_2



13C4-PFOS

170306G1_2



Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:00:41 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:00:55 Pacific Standard Time

Name: 170306G1_2, Date: 06-Mar-2017, Time: 15:37:57, ID: ST170306G1-1 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

13C9-PFNA

170306G1_2

F5:MRM of 12 channels,ES-
472.2 > 426.9
4.050e+005



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-22.qld

Last Altered: Tuesday, March 07, 2017 09:10:55 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:12:46 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170306G1_22, Date: 06-Mar-2017, Time: 19:48:29, ID: ST170306G1-2 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.51e4	7.64e3		1.000	2.98	10.3	103.5
2	2 PFHpA	363 > 318.9	3.10e4	2.11e4		1.000	3.87	10.1	101.3
3	3 PFHxS	398.9 > 79.6	1.18e4	7.69e3		1.000	3.99	10.5	105.4
4	4 PFOA	413 > 368.7	2.89e4	4.14e4		1.000	4.27	10.8	107.5
5	5 PFNA	463 > 418.8	2.14e4	9.26e3		1.000	4.61	10.5	105.4
6	6 PFOS	499 > 79.9	3.84e3	9.66e3		1.000	4.67	9.32	93.2
7	7 13C3-PFBS	302.0 > 98.8	7.64e3	1.82e4	0.410	1.000	2.97	12.8	102.4
8	8 13C4-PFHpA	367.2 > 321.8	2.11e4	1.82e4	1.098	1.000	3.87	13.2	105.7
9	9 18O2-PFHxS	403 > 102.6	7.69e3	1.82e4	0.434	1.000	3.99	12.2	97.3
10	10 13C2-PFOA	414.9 > 369.7	4.14e4	1.01e4	4.608	1.000	4.27	11.1	89.2
11	11 13C5-PFNA	468.2 > 422.9	9.26e3	1.13e4	0.867	1.000	4.61	11.8	94.3
12	12 13C8-PFOS	507.0 > 79.9	9.66e3	1.05e4	0.958	1.000	4.67	12.0	95.8
13	13 13C5-PFHxA	318 > 272.9	3.58e4	3.58e4	1.000	1.000	3.35	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.82e4	1.82e4	1.000	1.000	3.99	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	1.01e4	1.01e4	1.000	1.000	4.27	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.13e4	1.13e4	1.000	1.000	4.61	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.05e4	1.05e4	1.000	1.000	4.67	12.5	100.0

75-125



60-150



50-150

60-150

AC
3/7/17

✓ es 3/9/17

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 9:31:27 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 9:32:15 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

Name	ID	Acq.Date	Acq.Time
170306G1_1	IPA	06-Mar-17	14:49:33
170306G1_2	ST170306G1-1 PFC CS3 17C0612	06-Mar-17	15:37:57
170306G1_3	IPA	06-Mar-17	15:50:07
170306G1_4	B7C0003-BS1 OPR 0.125	06-Mar-17	16:02:38
170306G1_5	B7C0015-BS1 OPR 0.125	06-Mar-17	16:15:10
170306G1_6	B7C0017-BS1 OPR 0.125	06-Mar-17	16:27:44
170306G1_7	IPA	06-Mar-17	16:40:16
170306G1_8	B7C0003-BLK1 Method Blank 0.125	06-Mar-17	16:52:50
170306G1_9	B7C0015-BLK1 Method Blank 0.125	06-Mar-17	17:05:23
170306G1_10	B7C0017-BLK1 Method Blank 0.125	06-Mar-17	17:17:56
170306G1_11	1700268-01 WI-CV-GW09M-0217 0.12317	06-Mar-17	17:30:29
170306G1_12	1700268-03 WI-CV-GW05S-0217 0.12246	06-Mar-17	17:43:02
170306G1_13	1700268-05 WI-CV-GW11S-0217 0.12773	06-Mar-17	17:55:31
170306G1_14	1700268-07 WI-CV-EB06-022617 0.10638	06-Mar-17	18:08:03
170306G1_15	1700268-08 WI-CV-EB05-022417 0.12657	06-Mar-17	18:20:37
170306G1_16	1700263-04RE1 OW2C-MW25-0217 0.12534	06-Mar-17	18:33:10
170306G1_17	1700293-01 WI-CV-GW02S-0317 0.125	06-Mar-17	18:45:44
170306G1_18	1700293-02 WI-CV-GW02S/SP-0317 0.125	06-Mar-17	18:58:16
170306G1_19	1700293-03 WI-CV-GW04S-0317 0.125	06-Mar-17	19:10:50
170306G1_20	1700293-04 WI-CV-GW04S/SP-0317 0.125	06-Mar-17	19:23:25
170306G1_21	IPA	06-Mar-17	19:35:53
170306G1_22	ST170306G1-2 PFC CS3 17C0612	06-Mar-17	19:48:29
170306G1_23	IPA	06-Mar-17	20:00:59
170306G1_24	1700293-05 WI-CV-GW02M-0317 0.125	06-Mar-17	20:13:35
170306G1_25	1700293-06 WI-CV-GW12D-0317 0.125	06-Mar-17	20:26:04
170306G1_26	1700293-07 WI-CV-EB09-030117 0.125	06-Mar-17	20:38:37
170306G1_27	1700293-08 WI-CV-GW08S-0317 0.125	06-Mar-17	20:51:11
170306G1_28	1700293-09 WI-CV-FB01-030217 0.125	06-Mar-17	21:03:44
170306G1_29	1700293-10 WI-CV-EB10-030217 0.125	06-Mar-17	21:16:17
170306G1_30	1700293-11 WI-CV-EB11-030217 0.125	06-Mar-17	21:28:51
170306G1_31	B7C0017-MS1 Matrix Spike 0.125	06-Mar-17	21:41:24

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 9:31:27 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 9:32:15 AM Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170306G1_32	B7C0017-MSD1 Matrix Spike Dup 0.125	06-Mar-17	21:53:53
33	170306G1_33	IPA	06-Mar-17	22:06:26
34	170306G1_34	ST170306G1-3 PFC CS3 17C0612	06-Mar-17	22:19:02
35	170306G1_35	IPA	06-Mar-17	22:31:42

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:01:05 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:01:09 Pacific Standard Time

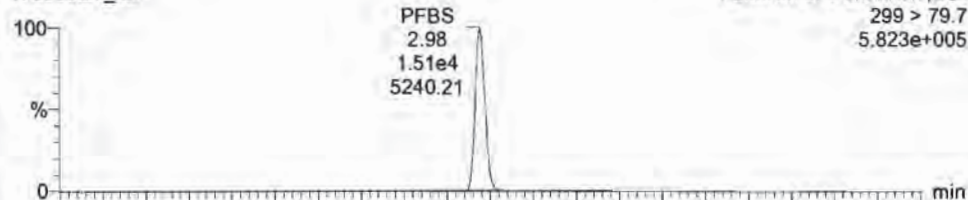
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170306G1_22, Date: 06-Mar-2017, Time: 19:48:29, ID: ST170306G1-2 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

PFBS

170306G1_22

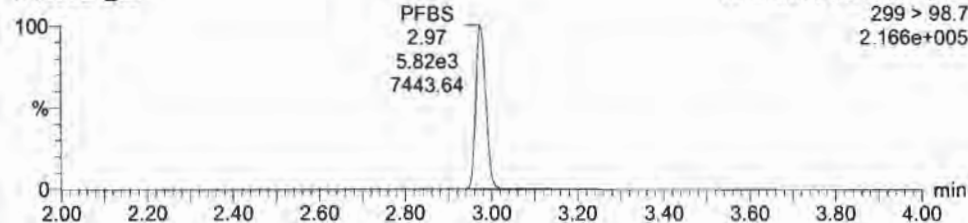


PFHpA

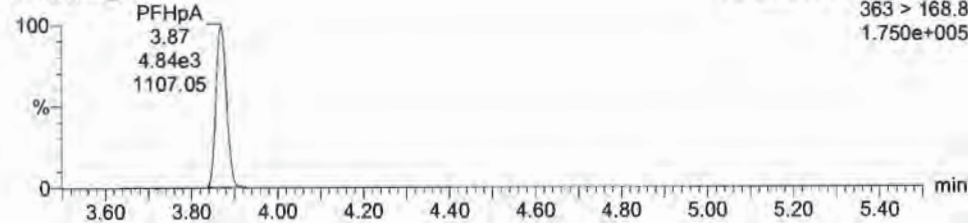
170306G1_22



170306G1_22

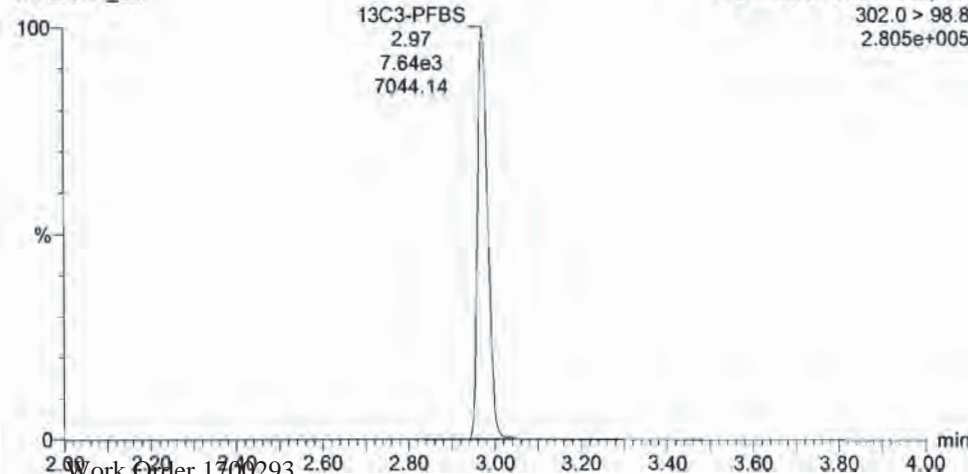


170306G1_22



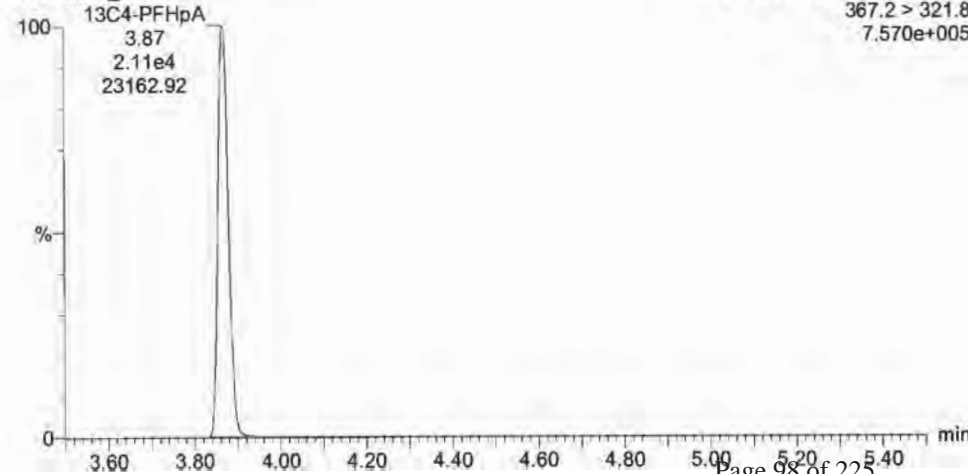
13C3-PFBS

170306G1_22



13C4-PFHpA

170306G1_22



Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:01:05 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:01:09 Pacific Standard Time

Name: 170306G1_22, Date: 06-Mar-2017, Time: 19:48:29, ID: ST170306G1-2 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

PFHxS

170306G1_22

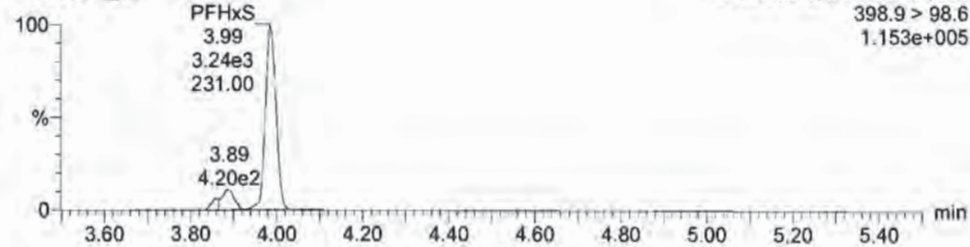


PFOA

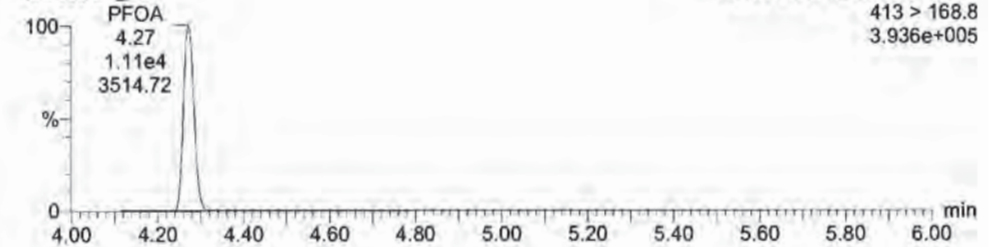
170306G1_22



170306G1_22

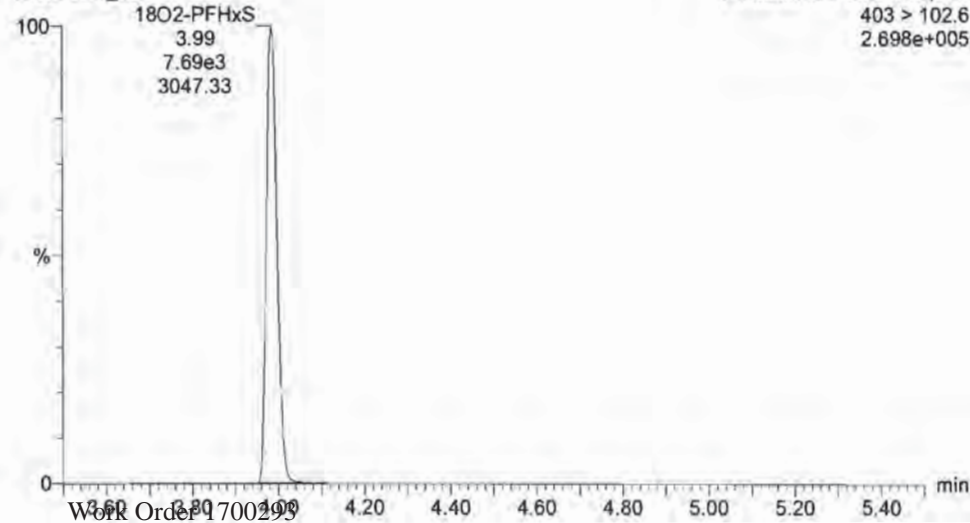


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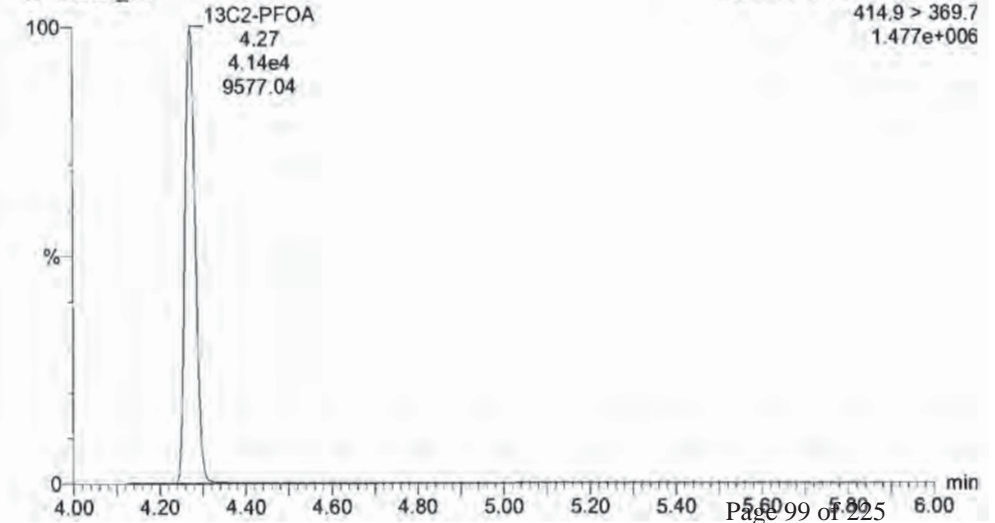
18O2-PFHxS

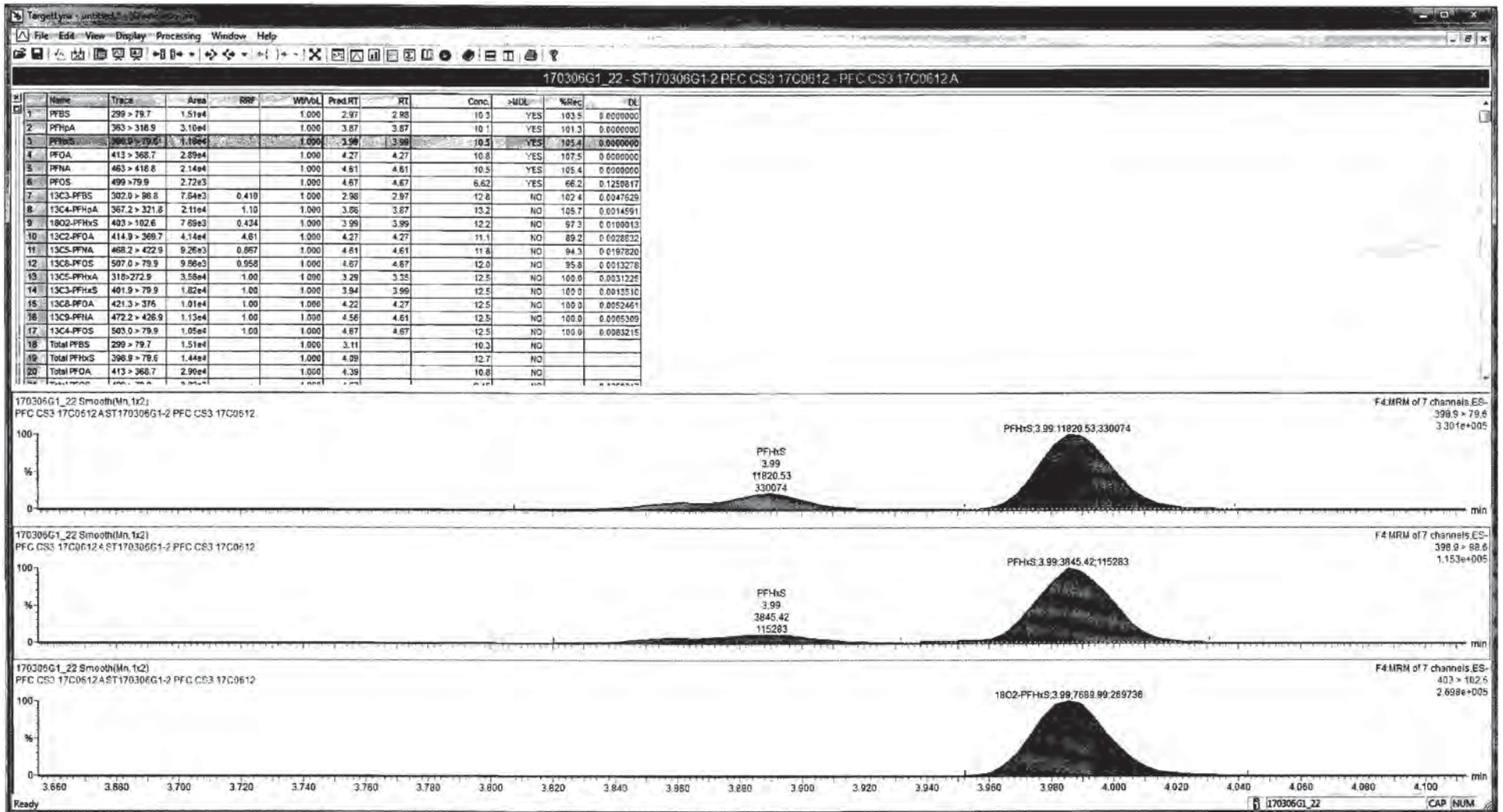
170306G1_22



13C2-PFOA

170306G1_22



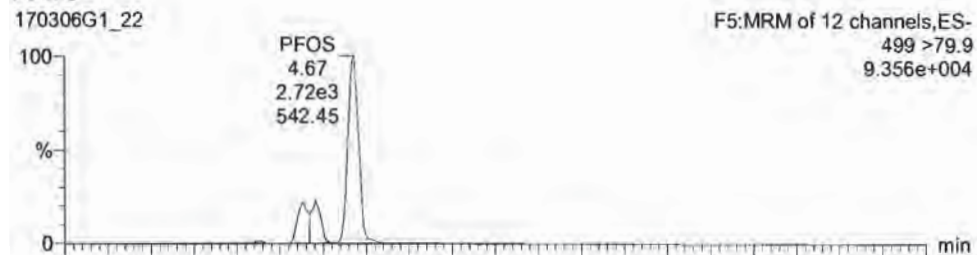


Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:01:05 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:01:09 Pacific Standard Time

Name: 170306G1_22, Date: 06-Mar-2017, Time: 19:48:29, ID: ST170306G1-2 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

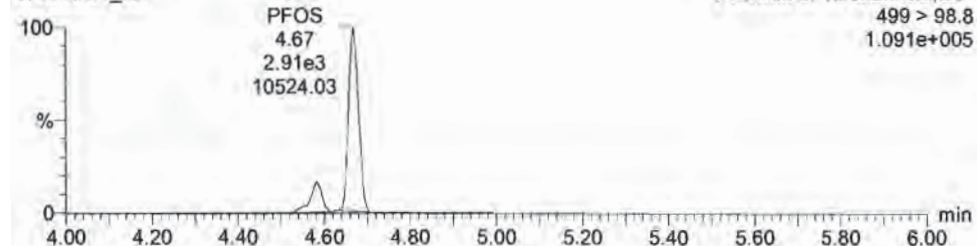
PFOS



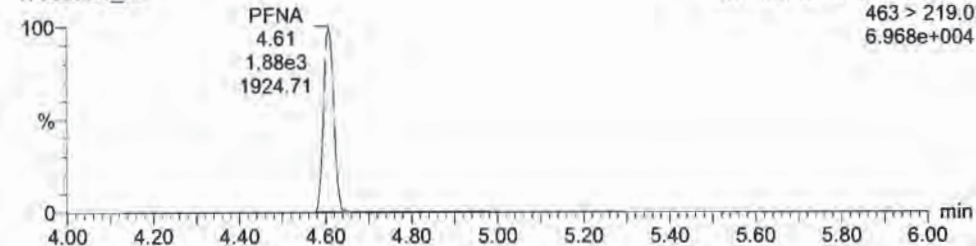
PFNA



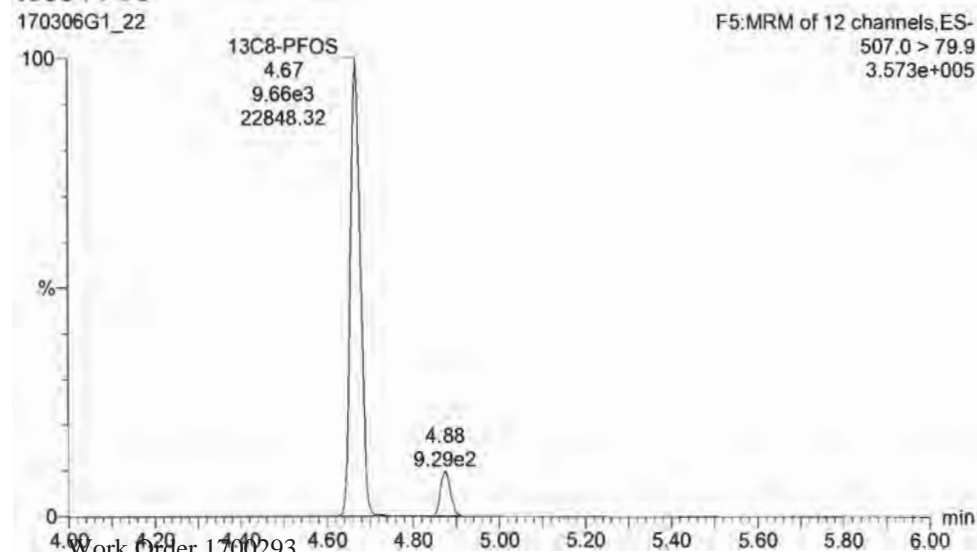
PFOS



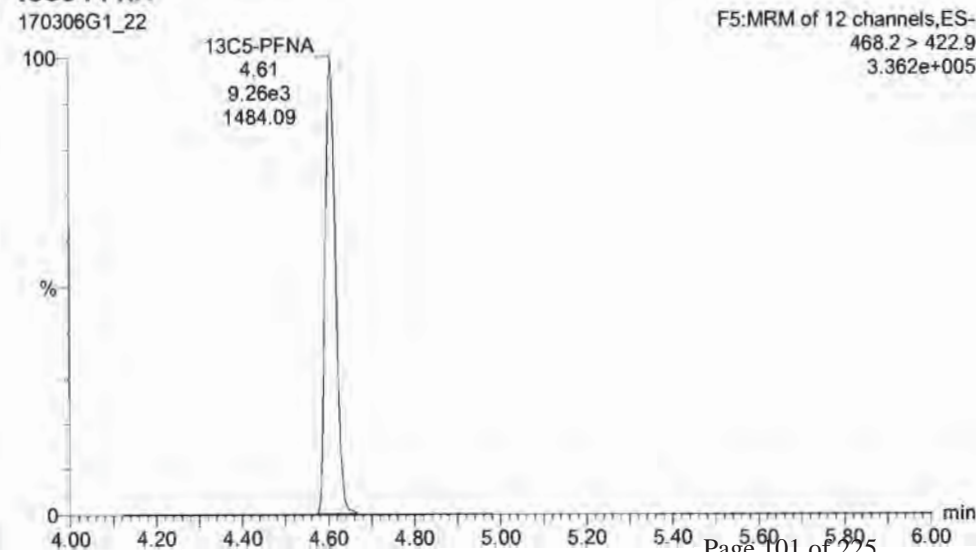
PFNA

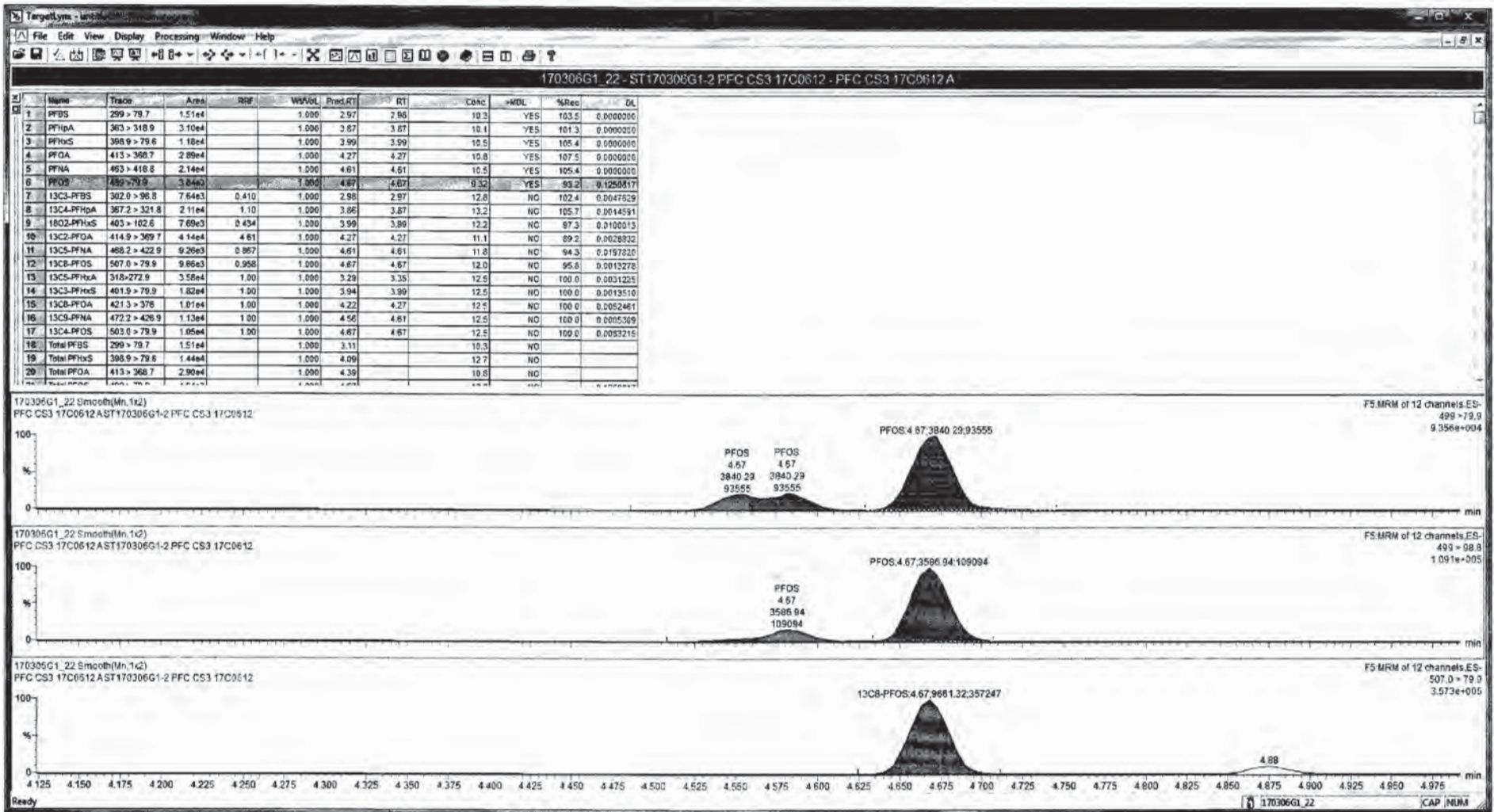


13C8-PFOS



13C5-PFNA





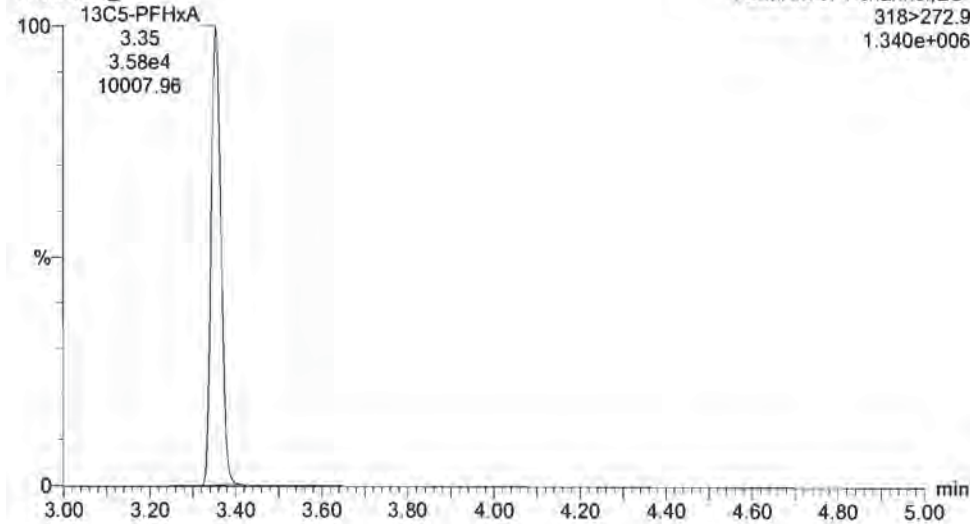
Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:01:05 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:01:09 Pacific Standard Time

Name: 170306G1_22, Date: 06-Mar-2017, Time: 19:48:29, ID: ST170306G1-2 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

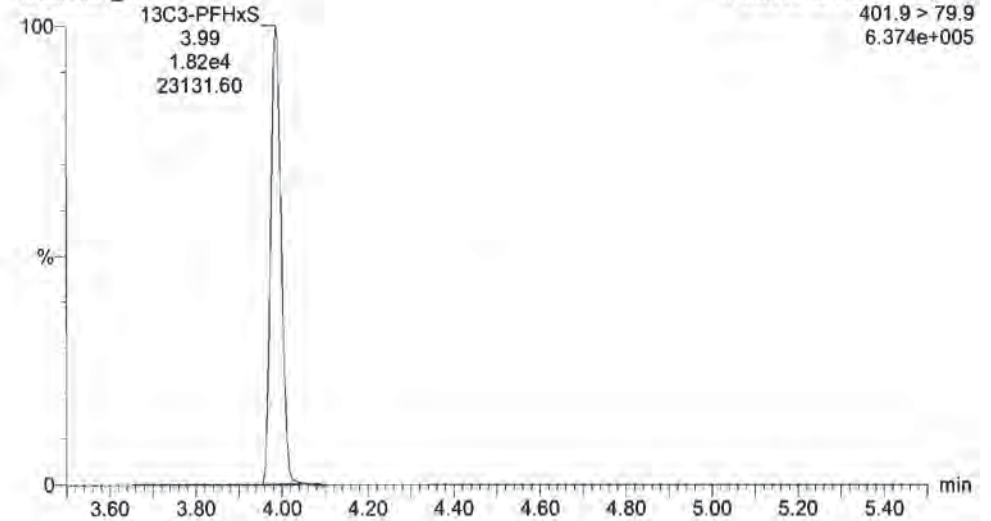
13C5-PFHxA

170306G1_22



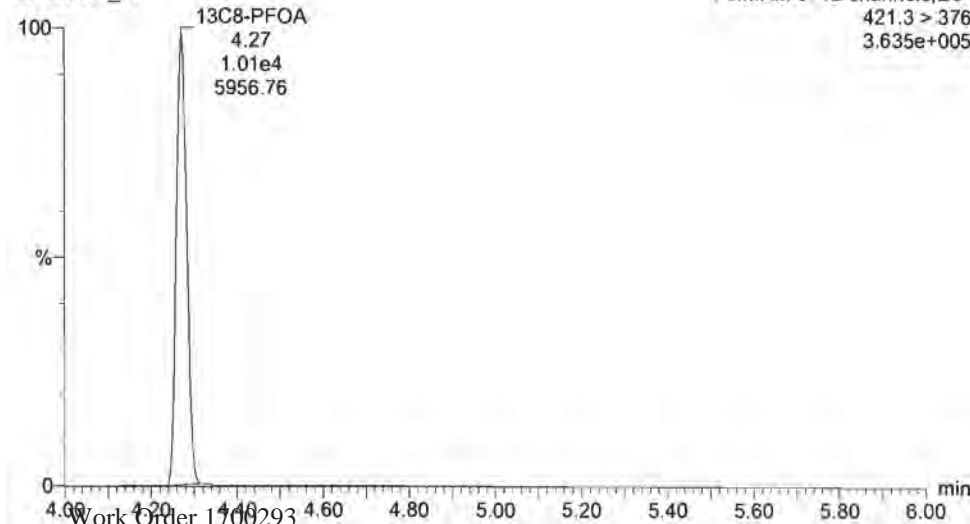
13C3-PFHxS

170306G1_22



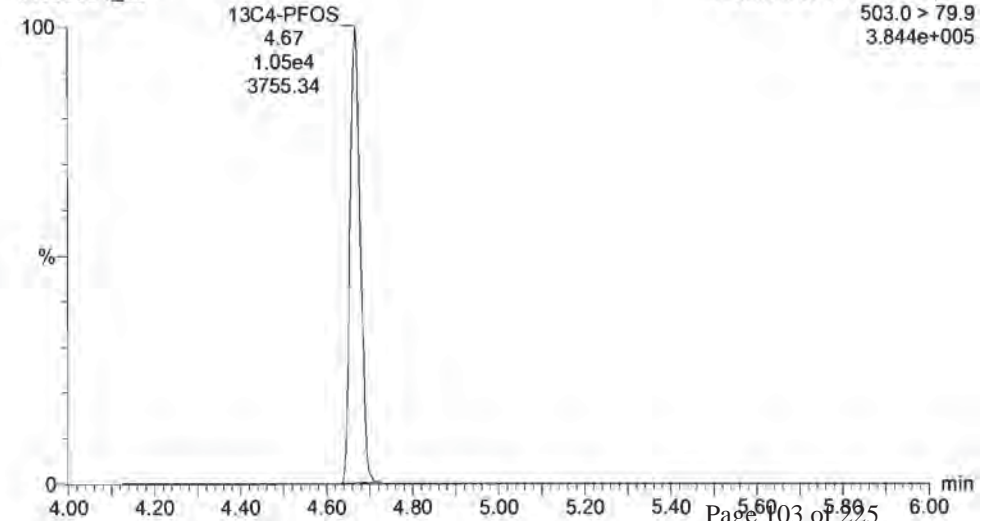
13C8-PFOA

170306G1_22



13C4-PFOS

170306G1_22



Dataset: Untitled

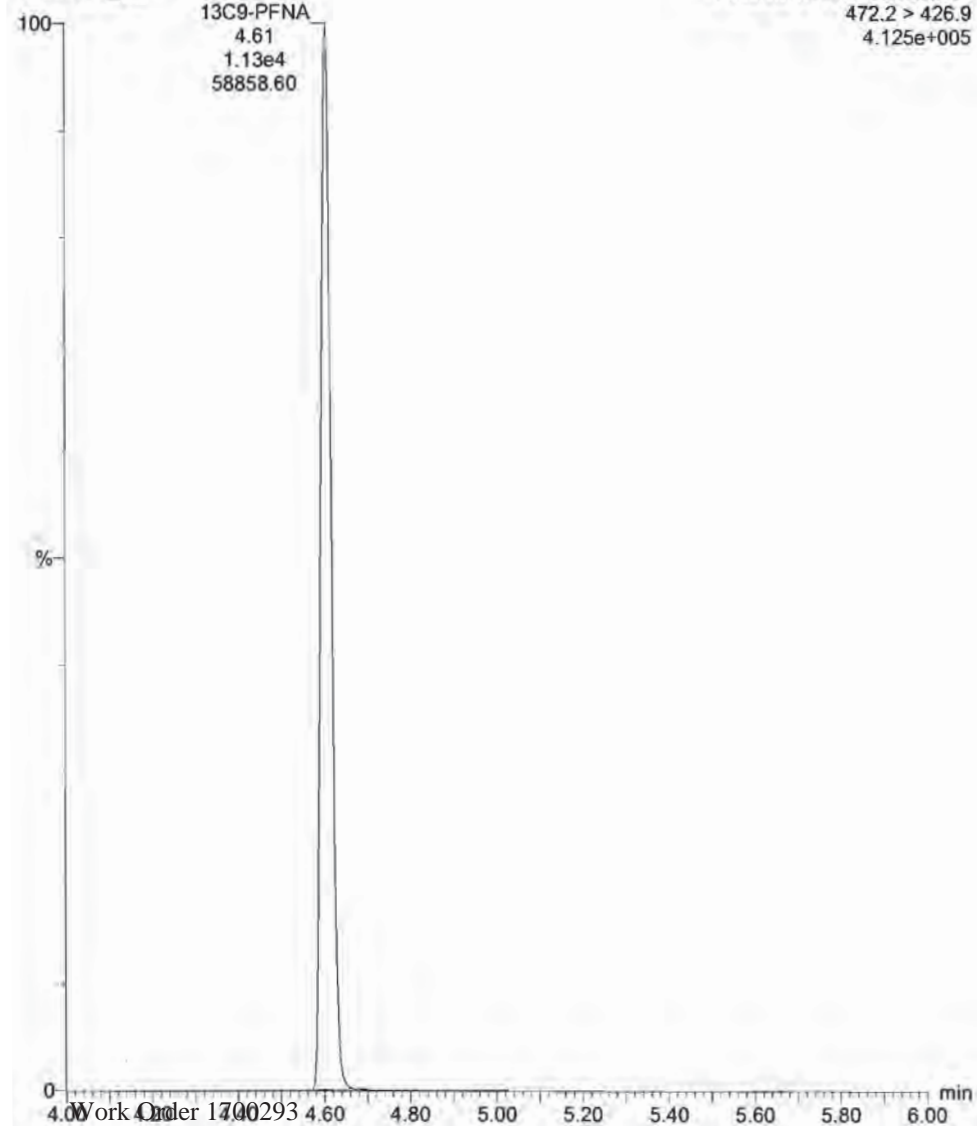
Last Altered: Tuesday, March 07, 2017 09:01:05 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:01:09 Pacific Standard Time

Name: 170306G1_22, Date: 06-Mar-2017, Time: 19:48:29, ID: ST170306G1-2 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

13C9-PFNA

170306G1_22



Dataset: U:\G1.PRO\Results\2017\170306G1\170306G1-34.qld

Last Altered: Tuesday, March 07, 2017 9:20:14 AM Pacific Standard Time
Printed: Tuesday, March 07, 2017 9:20:55 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170306G1_34, Date: 06-Mar-2017, Time: 22:19:02, ID: ST170306G1-3 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

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1	1 PFBS	299 > 79.7	1.57e4	7.69e3		1.000	2.98	10.7	106.8
2	2 PFHpA	363 > 318.9	3.16e4	2.08e4		1.000	3.87	10.5	104.9
3	3 PFHxS	398.9 > 79.6	1.30e4	8.69e3		1.000	3.99	10.2	102.3
4	4 PFOA	413 > 368.7	2.84e4	3.90e4		1.000	4.28	11.2	112.1
5	5 PFNA	463 > 418.8	2.15e4	9.42e3		1.000	4.61	10.4	104.1
6	6 PFOS	499 > 79.9	3.98e3	9.87e3		1.000	4.67	9.45	94.5
7	7 13C3-PFBS	302.0 > 98.8	7.69e3	1.89e4	0.410	1.000	2.98	12.4	99.1
8	8 13C4-PFHpA	367.2 > 321.8	2.08e4	1.89e4	1.098	1.000	3.87	12.5	100.1
9	9 18O2-PFHxS	403 > 102.6	8.69e3	1.89e4	0.434	1.000	3.99	13.2	105.7
10	10 13C2-PFOA	414.9 > 369.7	3.90e4	9.54e3	4.608	1.000	4.28	11.1	88.7
11	11 13C5-PFNA	468.2 > 422.9	9.42e3	1.08e4	0.867	1.000	4.61	12.5	100.2
12	12 13C8-PFOS	507.0 > 79.9	9.87e3	1.07e4	0.958	1.000	4.67	12.0	95.9
13	13 13C5-PFHxA	318 > 272.9	3.58e4	3.58e4	1.000	1.000	3.36	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.89e4	1.89e4	1.000	1.000	3.99	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	9.54e3	9.54e3	1.000	1.000	4.28	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.08e4	1.08e4	1.000	1.000	4.61	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.07e4	1.07e4	1.000	1.000	4.67	12.5	100.0

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

AC
3/7/17

✓ 3/7/17

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 9:31:27 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 9:32:15 AM Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170306G1_1	IPA	06-Mar-17	14:49:33
2	170306G1_2	ST170306G1-1 PFC CS3 17C0612	06-Mar-17	15:37:57
3	170306G1_3	IPA	06-Mar-17	15:50:07
4	170306G1_4	B7C0003-BS1 OPR 0.125	06-Mar-17	16:02:38
5	170306G1_5	B7C0015-BS1 OPR 0.125	06-Mar-17	16:15:10
6	170306G1_6	B7C0017-BS1 OPR 0.125	06-Mar-17	16:27:44
7	170306G1_7	IPA	06-Mar-17	16:40:16
8	170306G1_8	B7C0003-BLK1 Method Blank 0.125	06-Mar-17	16:52:50
9	170306G1_9	B7C0015-BLK1 Method Blank 0.125	06-Mar-17	17:05:23
10	170306G1_10	B7C0017-BLK1 Method Blank 0.125	06-Mar-17	17:17:56
11	170306G1_11	1700268-01 WI-CV-GW09M-0217 0.12317	06-Mar-17	17:30:29
12	170306G1_12	1700268-03 WI-CV-GW05S-0217 0.12246	06-Mar-17	17:43:02
13	170306G1_13	1700268-05 WI-CV-GW11S-0217 0.12773	06-Mar-17	17:55:31
14	170306G1_14	1700268-07 WI-CV-EB06-022617 0.10638	06-Mar-17	18:08:03
15	170306G1_15	1700268-08 WI-CV-EB05-022417 0.12657	06-Mar-17	18:20:37
16	170306G1_16	1700263-04RE1 OW2C-MW25-0217 0.12534	06-Mar-17	18:33:10
17	170306G1_17	1700293-01 WI-CV-GW02S-0317 0.125	06-Mar-17	18:45:44
18	170306G1_18	1700293-02 WI-CV-GW02S/SP-0317 0.125	06-Mar-17	18:58:16
19	170306G1_19	1700293-03 WI-CV-GW04S-0317 0.125	06-Mar-17	19:10:50
20	170306G1_20	1700293-04 WI-CV-GW04S/SP-0317 0.125	06-Mar-17	19:23:25
21	170306G1_21	IPA	06-Mar-17	19:35:53
22	170306G1_22	ST170306G1-2 PFC CS3 17C0612	06-Mar-17	19:48:29
23	170306G1_23	IPA	06-Mar-17	20:00:59
24	170306G1_24	1700293-05 WI-CV-GW02M-0317 0.125	06-Mar-17	20:13:35
25	170306G1_25	1700293-06 WI-CV-GW12D-0317 0.125	06-Mar-17	20:26:04
26	170306G1_26	1700293-07 WI-CV-EB09-030117 0.125	06-Mar-17	20:38:37
27	170306G1_27	1700293-08 WI-CV-GW08S-0317 0.125	06-Mar-17	20:51:11
28	170306G1_28	1700293-09 WI-CV-FB01-030217 0.125	06-Mar-17	21:03:44
29	170306G1_29	1700293-10 WI-CV-EB10-030217 0.125	06-Mar-17	21:16:17
30	170306G1_30	1700293-11 WI-CV-EB11-030217 0.125	06-Mar-17	21:28:51
31	170306G1_31	B7C0017-MS1 Matrix Spike 0.125	06-Mar-17	21:41:24

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 9:31:27 AM Pacific Standard Time

Printed: Tuesday, March 07, 2017 9:32:15 AM Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
32	170306G1_32	B7C0017-MSD1 Matrix Spike Dup 0.125	06-Mar-17	21:53:53
33	170306G1_33	IPA	06-Mar-17	22:06:26
34	170306G1_34	ST170306G1-3 PFC CS3 17C0612	06-Mar-17	22:19:02
35	170306G1_35	IPA	06-Mar-17	22:31:42

Dataset: Untitled

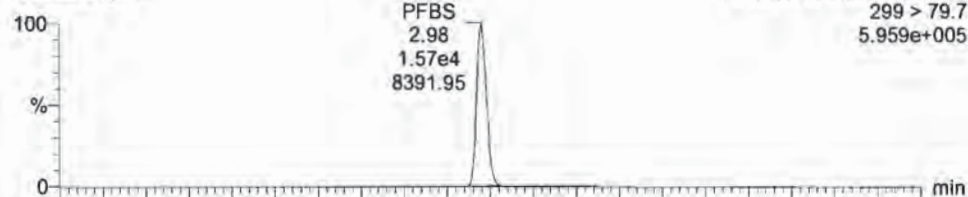
Last Altered: Tuesday, March 07, 2017 09:01:17 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:01:22 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170306G1_34, Date: 06-Mar-2017, Time: 22:19:02, ID: ST170306G1-3 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

PFBS

170306G1_34

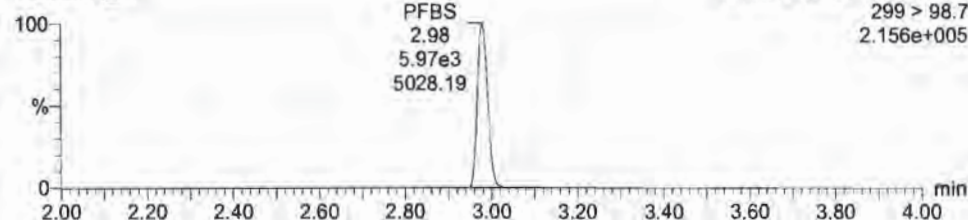


PFHpA

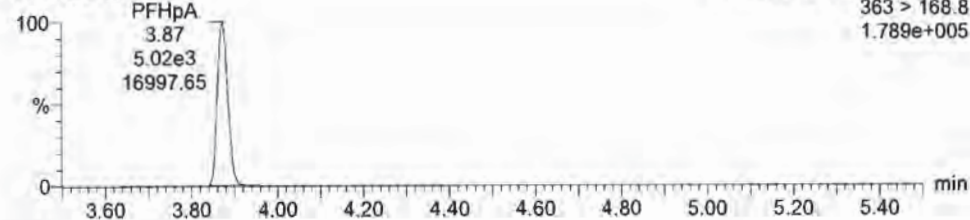
170306G1_34



170306G1_34

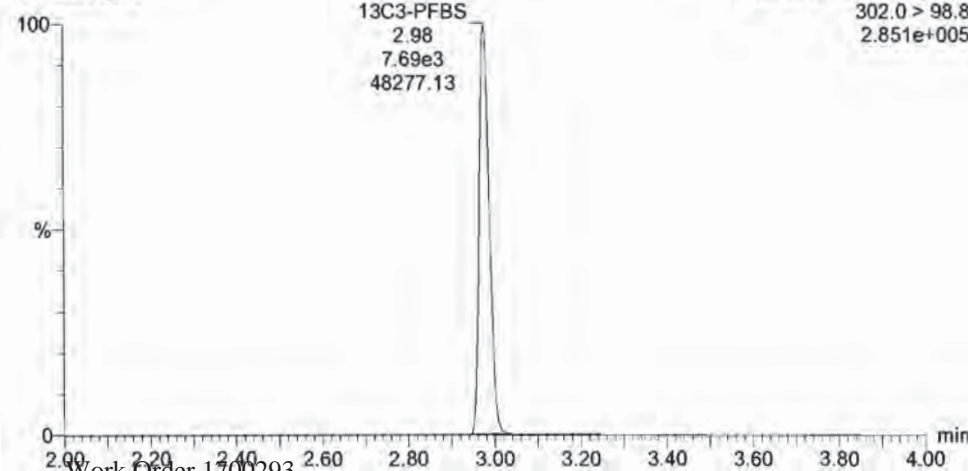


170306G1_34



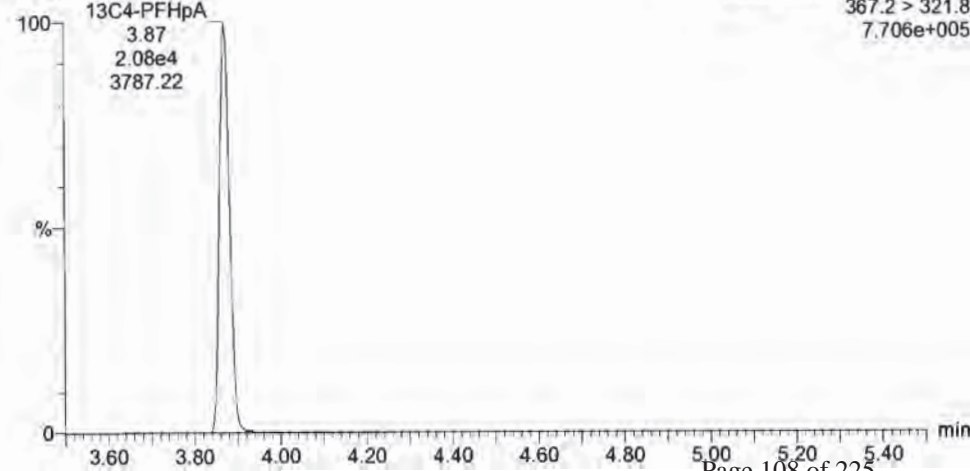
13C3-PFBS

170306G1_34



13C4-PFHpA

170306G1_34



Dataset: Untitled

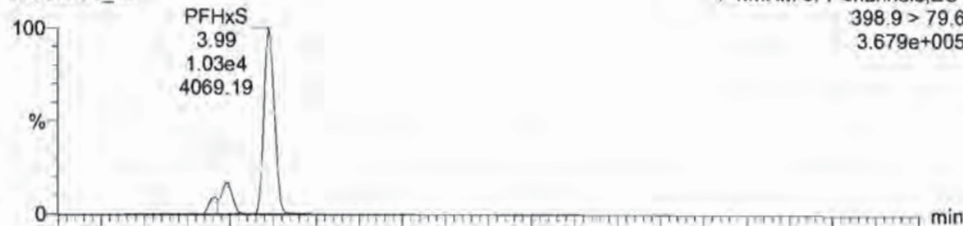
Last Altered: Tuesday, March 07, 2017 09:01:17 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:01:22 Pacific Standard Time

Name: 170306G1_34, Date: 06-Mar-2017, Time: 22:19:02, ID: ST170306G1-3 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

PFHxS

170306G1_34

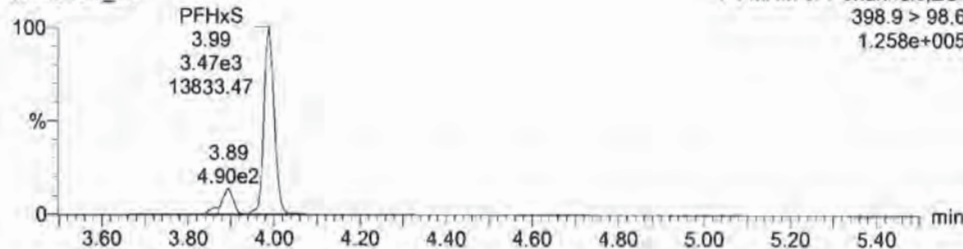


PFOA

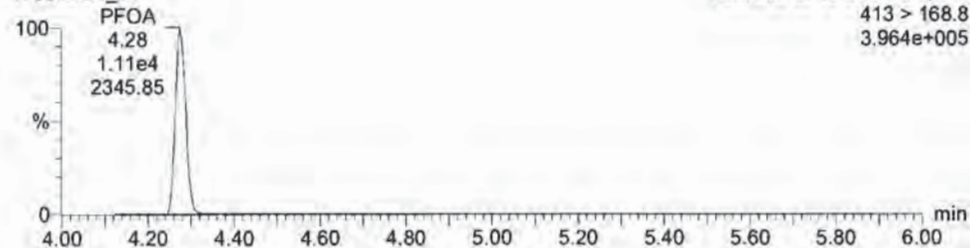
170306G1_34



170306G1_34

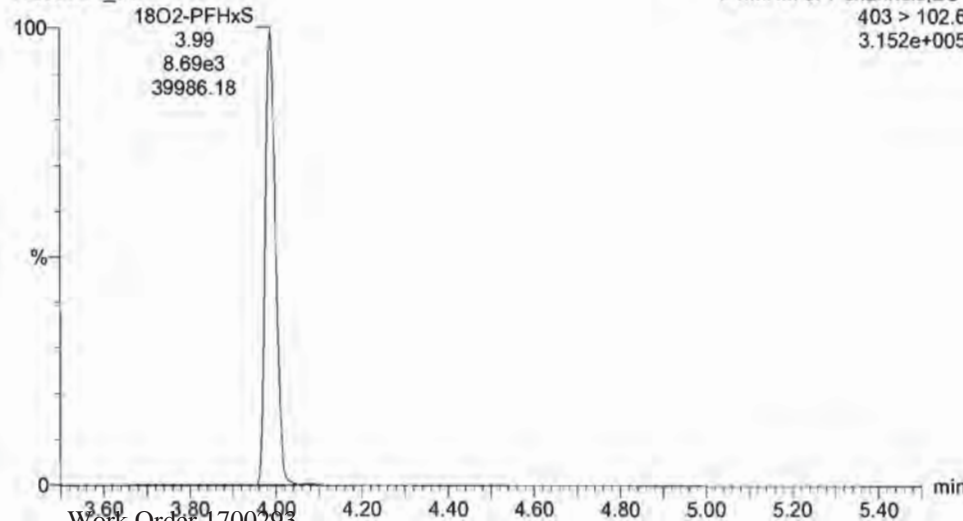


170306G1_34



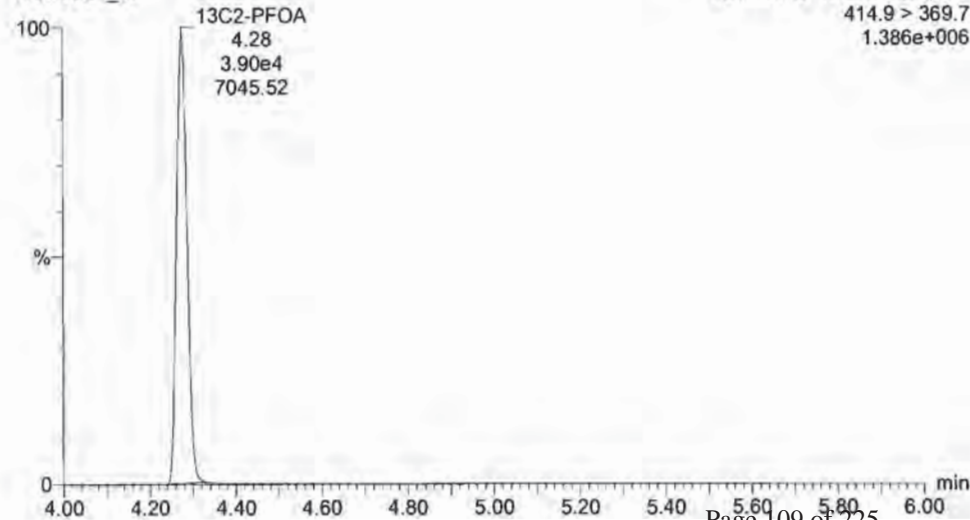
18O2-PFHxS

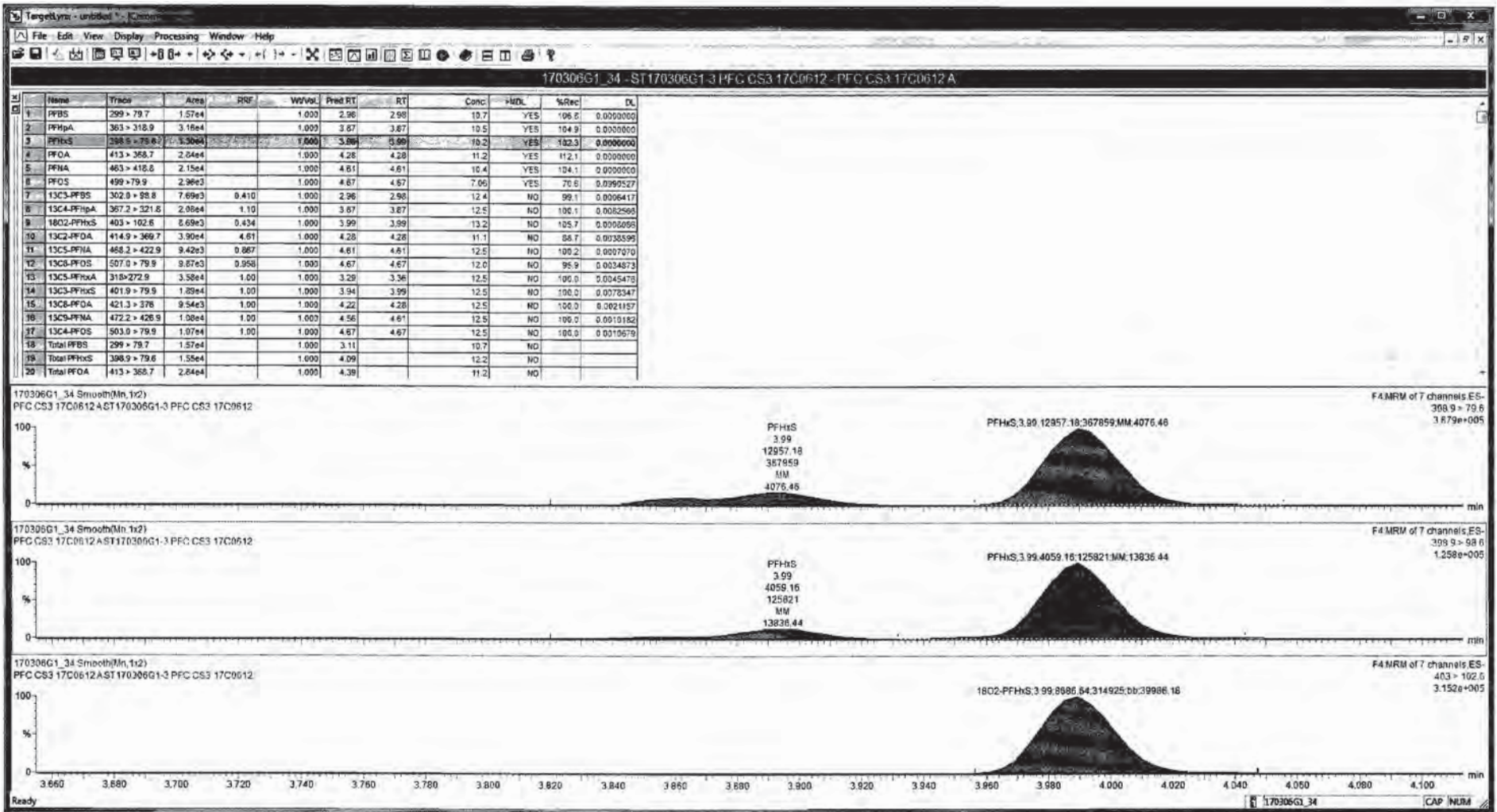
170306G1_34



13C2-PFOA

170306G1_34

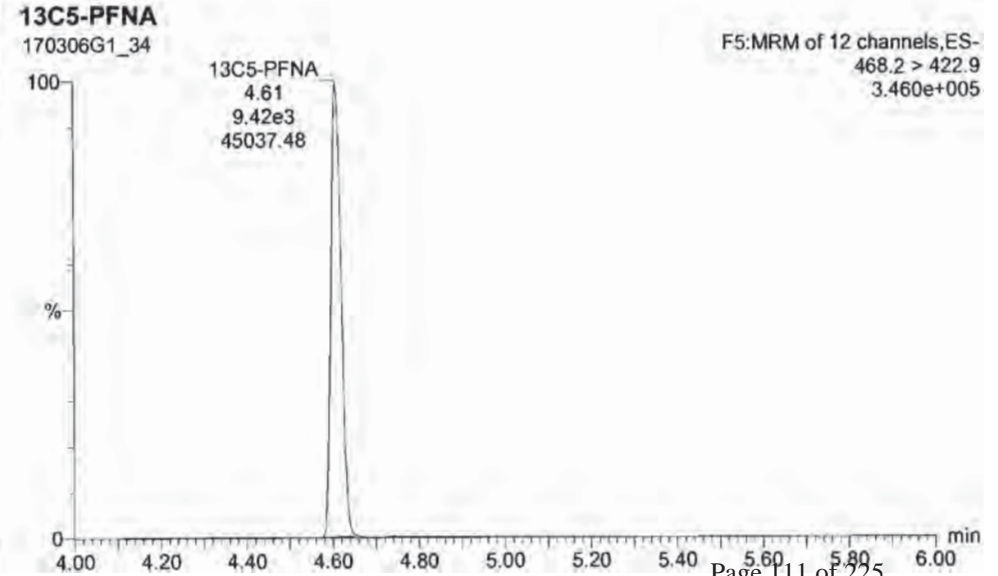
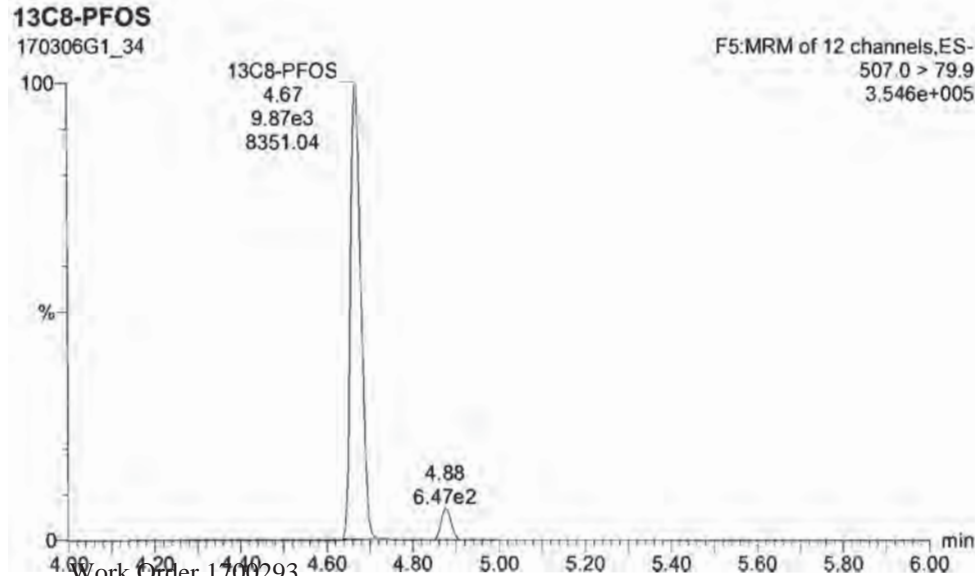
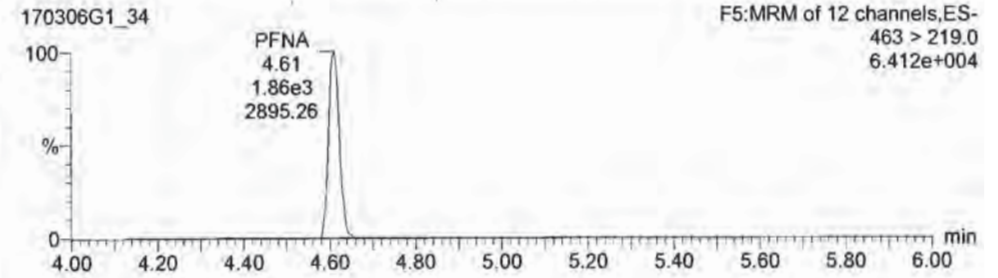
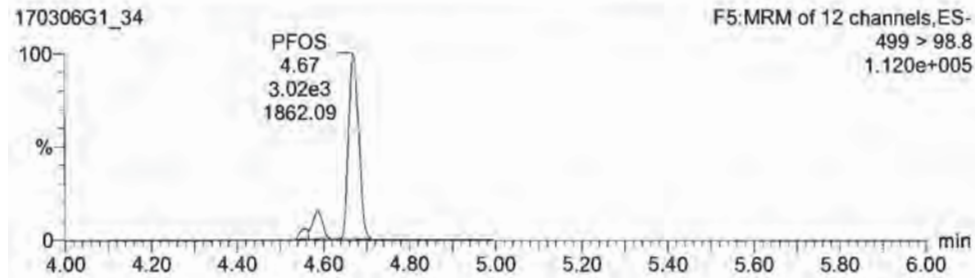
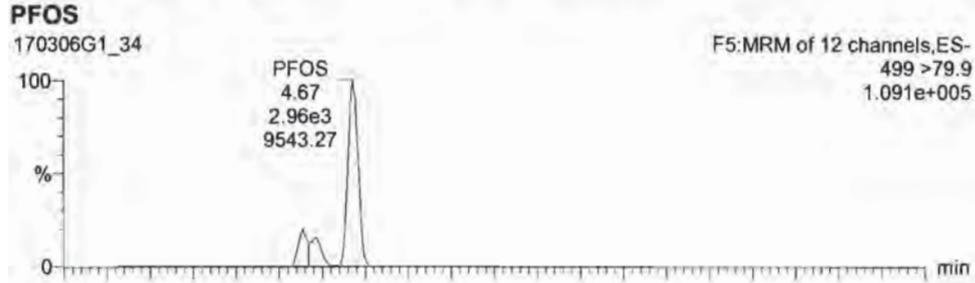


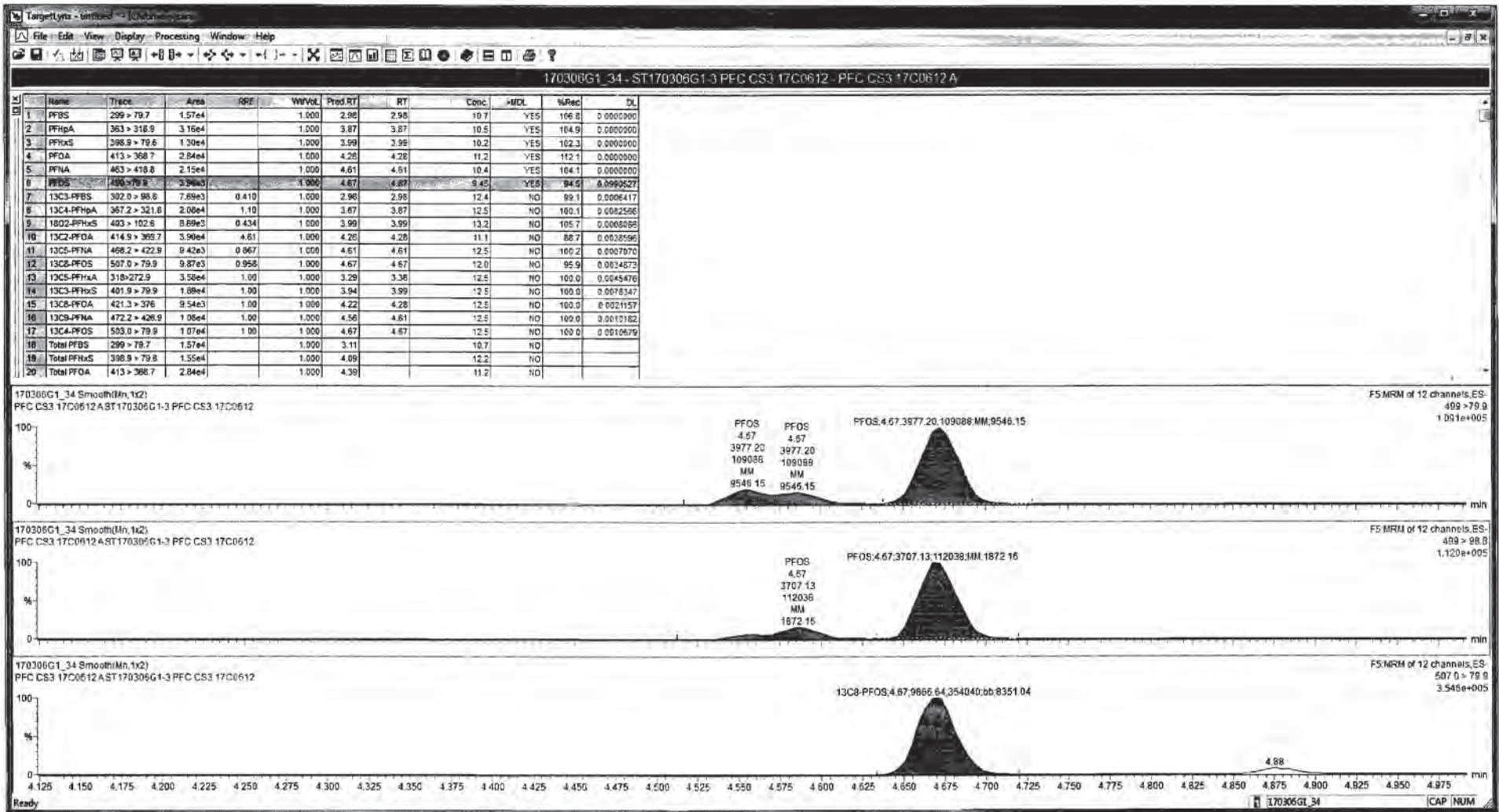


Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:01:17 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:01:22 Pacific Standard Time

Name: 170306G1_34, Date: 06-Mar-2017, Time: 22:19:02, ID: ST170306G1-3 PFC CS3 17C0612, Description: PFC CS3 17C0612 A





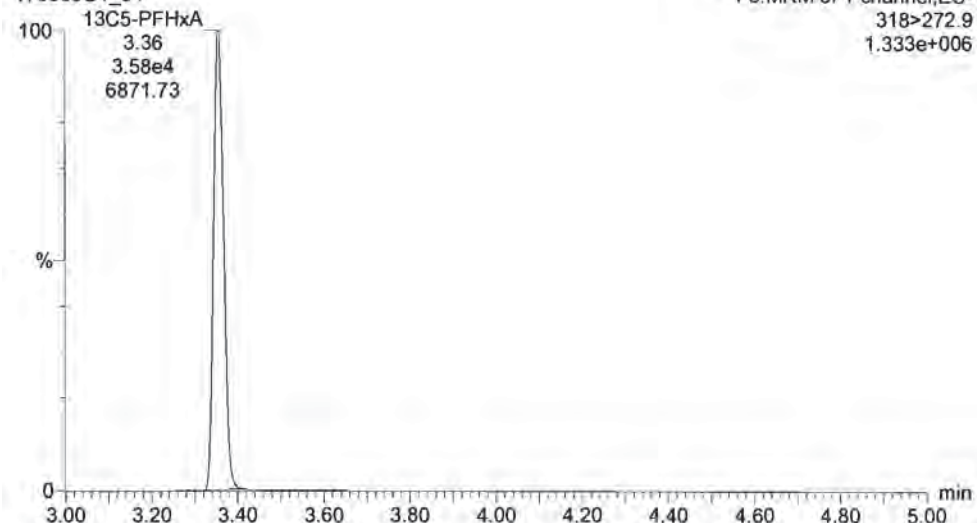
Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:01:17 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:01:22 Pacific Standard Time

Name: 170306G1_34, Date: 06-Mar-2017, Time: 22:19:02, ID: ST170306G1-3 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

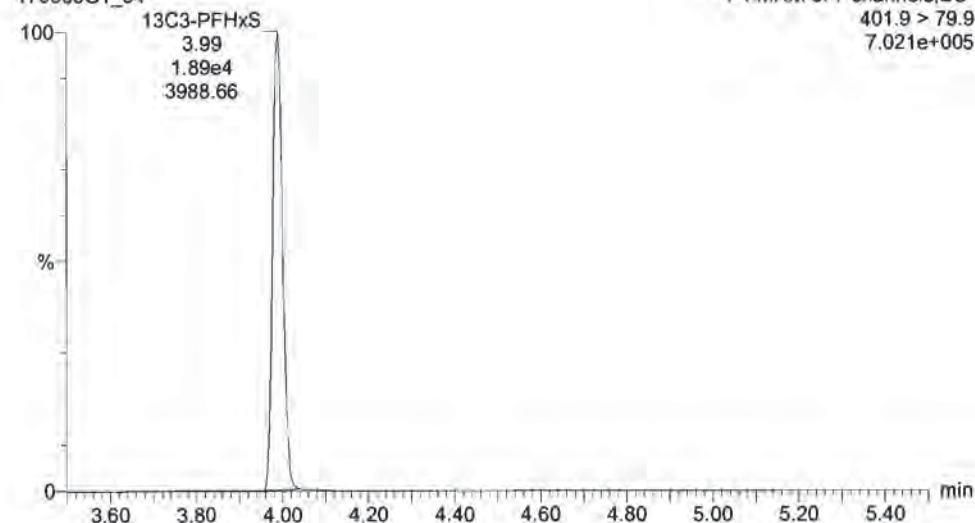
13C5-PFHxA

170306G1_34



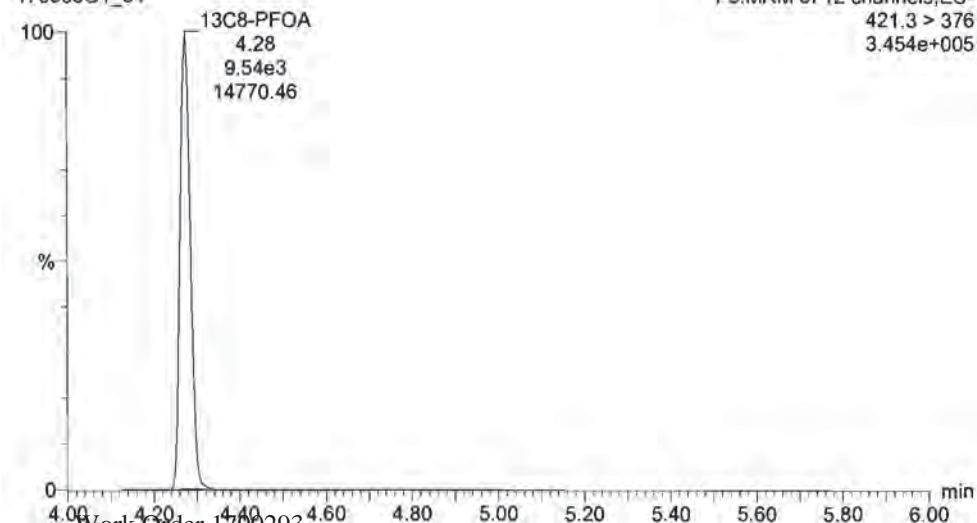
13C3-PFHxS

170306G1_34



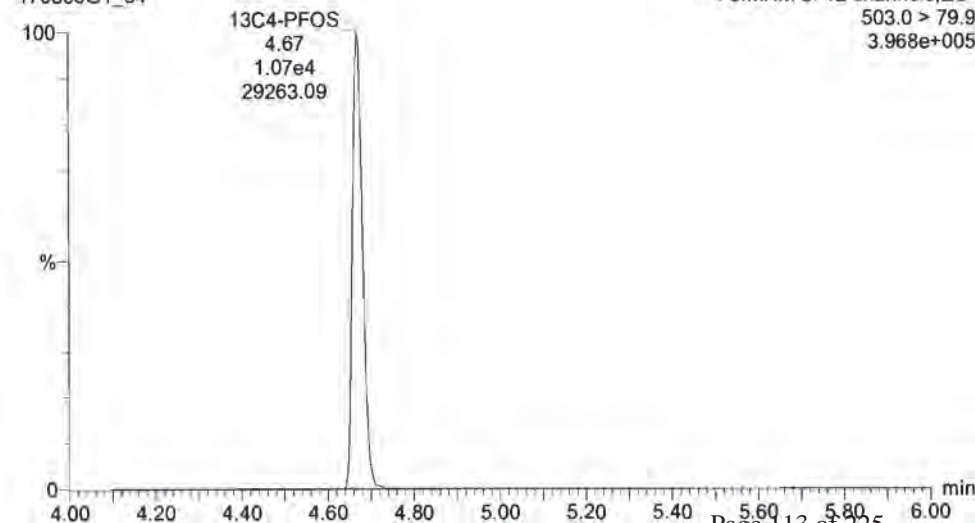
13C8-PFOA

170306G1_34



13C4-PFOS

170306G1_34



Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:01:17 Pacific Standard Time

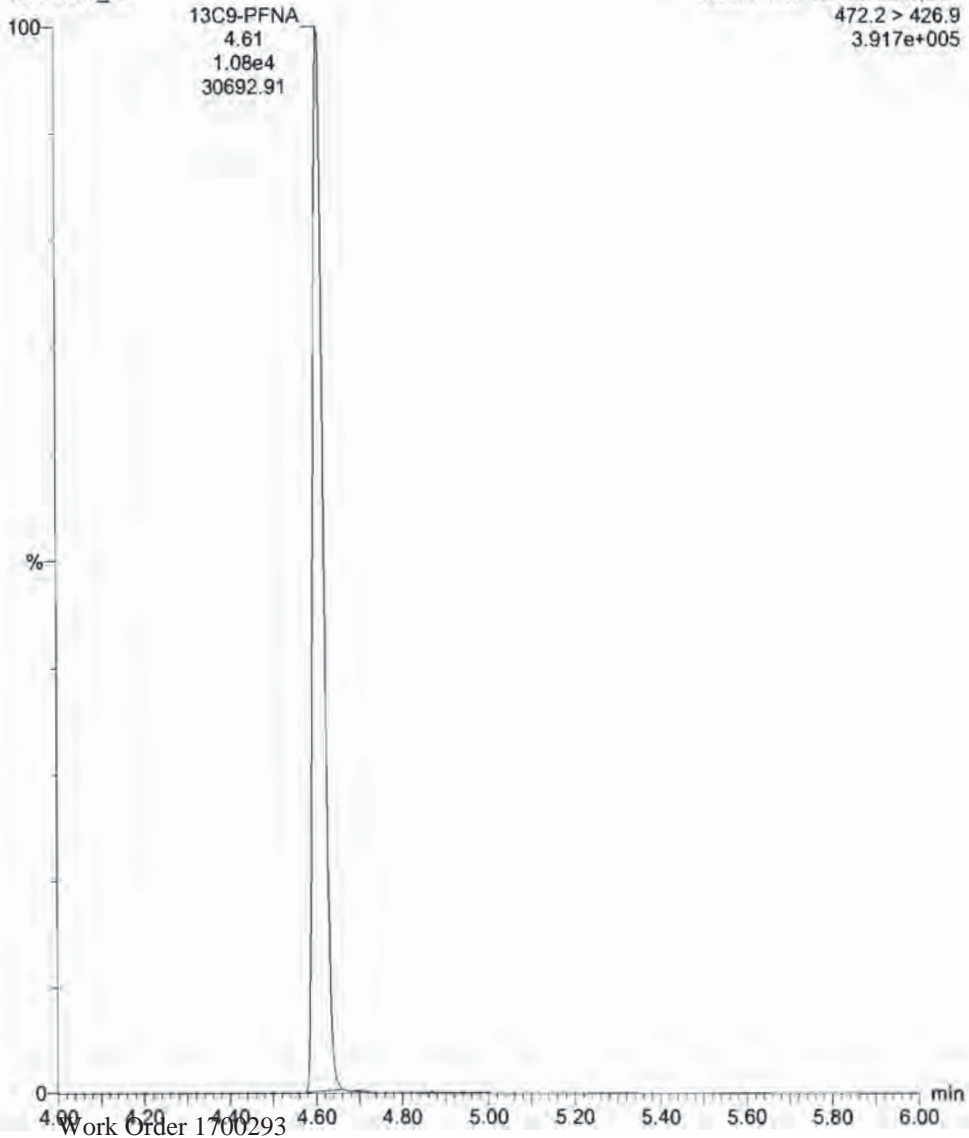
Printed: Tuesday, March 07, 2017 09:01:22 Pacific Standard Time

Name: 170306G1_34, Date: 06-Mar-2017, Time: 22:19:02, ID: ST170306G1-3 PFC CS3 17C0612, Description: PFC CS3 17C0612 A

13C9-PFNA

170306G1_34

F5:MRM of 12 channels,ES-
472.2 > 426.9
3.917e+005



Dataset: U:\G1.PRO\Results\2017\New folder\170307G1-2.qld

Last Altered: Tuesday, March 07, 2017 09:51:38 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:54:56 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170307G1_2, Date: 07-Mar-2017, Time: 09:14:04, ID: ST170307G1-1 PFC CS3 17C0701, Description: PFC CS3 17C0701 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.31e4	7.20e3		1.000	2.99	9.55	95.5
2	2 PFHpA	363 > 318.9	2.77e4	1.83e4		1.000	3.88	10.4	104.3
3	3 PFHxS	398.9 > 79.6	1.20e4	7.52e3		1.000	4.00	10.9	109.4
4	4 PFOA	413 > 368.7	2.44e4	3.81e4		1.000	4.28	9.86	98.6
5	5 PFNA	463 > 418.8	1.87e4	8.55e3		1.000	4.61	9.94	99.4
6	6 PFOS	499 > 79.9	3.38e3	8.10e3		1.000	4.67	9.77	97.7
7	7 13C3-PFBS	302.0 > 98.8	7.20e3	1.80e4	0.410	1.000	2.99	12.2	97.9
8	8 13C4-PFHpA	367.2 > 321.8	1.83e4	1.80e4	1.098	1.000	3.88	11.6	93.0
9	9 18O2-PFHxS	403 > 102.6	7.52e3	1.80e4	0.434	1.000	4.00	12.1	96.4
10	10 13C2-PFOA	414.9 > 369.7	3.81e4	8.44e3	4.608	1.000	4.28	12.2	98.0
11	11 13C5-PFNA	468.2 > 422.9	8.55e3	1.03e4	0.867	1.000	4.61	12.0	95.6
12	12 13C8-PFOS	507.0 > 79.9	8.10e3	8.25e3	0.958	1.000	4.67	12.8	102.5
13	13 13C5-PFHxA	318 > 272.9	3.17e4	3.17e4	1.000	1.000	3.37	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.80e4	1.80e4	1.000	1.000	4.00	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	8.44e3	8.44e3	1.000	1.000	4.28	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.03e4	1.03e4	1.000	1.000	4.61	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	8.25e3	8.25e3	1.000	1.000	4.67	12.5	100.0

75-125
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50-150
60-150

ES 3/7/17
✓ AC 3/7/17

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 10:58:31 Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:58:48 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170307G1_1	IPA	07-Mar-17	09:01:51
2	170307G1_2	ST170307G1-1 PFC CS3 17C0701	07-Mar-17	09:14:04
3	170307G1_3	IPA	07-Mar-17	09:26:31
4	170307G1_4	1700263-04RE1@10X OW2C-MW25-0217 0....	07-Mar-17	09:39:38
5	170307G1_5	1700293-01@10X WI-CV-GW02S-0317 0.125	07-Mar-17	09:51:58
6	170307G1_6	1700293-02@10X WI-CV-GW02S/SP-0317 0....	07-Mar-17	10:04:33
7	170307G1_7	IPA	07-Mar-17	10:17:07
8	170307G1_8	ST170307G1-2 PFC CS3 17C0701	07-Mar-17	10:29:40
9	170307G1_9	IPA	07-Mar-17	10:42:20

LC Calibration Standards Review Checklist

Q1

Calibration ID:	L M H	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
<u>ST17030761-1</u>	L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>J -2</u>	L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MB
↓
↓
↓

Full Mass Cal. Date: 12/7/16

Run Log Present:

of Samples per Sequence Checked:

Reviewed By: AC 3/7/17
Initials/Date

Comments:
List 6

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:55:08 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:55:29 Pacific Standard Time

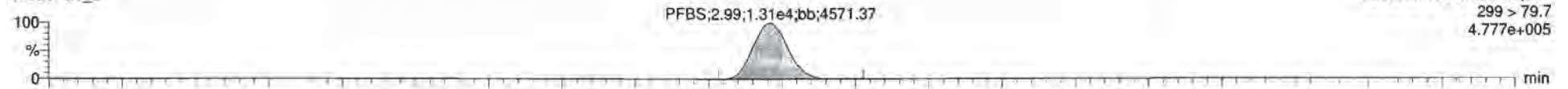
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

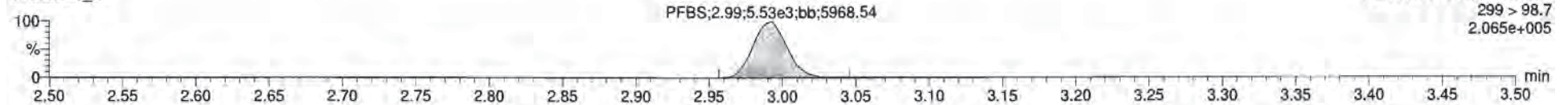
ID: ST170307G1-1 PFC CS3 17C0701, Description: PFC CS3 17C0701 A, Name: 170307G1_2, Date: 07-Mar-2017, Time: 09:14:04, Instrument: , Lab: , User:

PFBS

170307G1_2

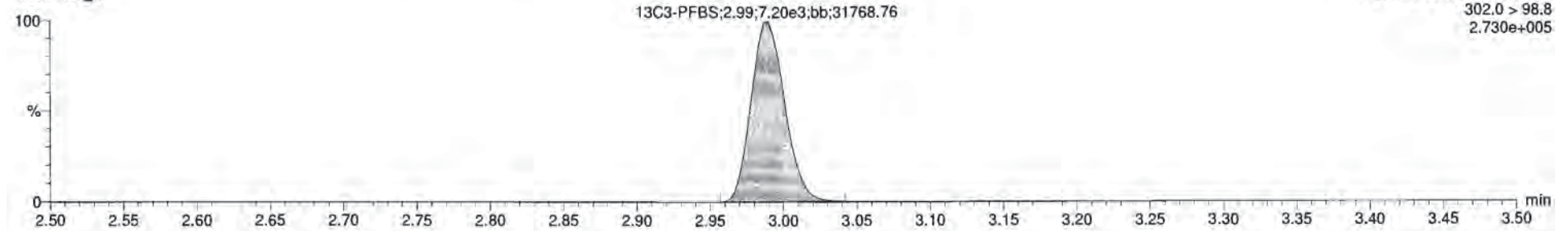


170307G1_2



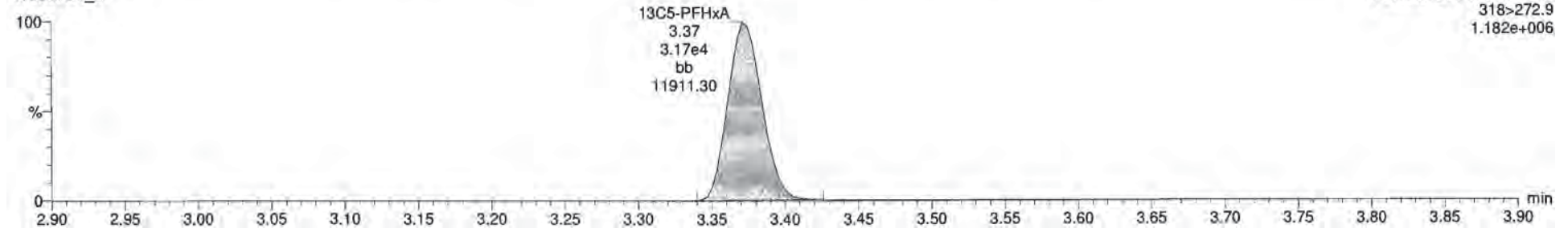
13C3-PFBS

170307G1_2



13C5-PFHxA

170307G1_2



Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 09:55:08 Pacific Standard Time
Printed: Tuesday, March 07, 2017 09:55:29 Pacific Standard Time

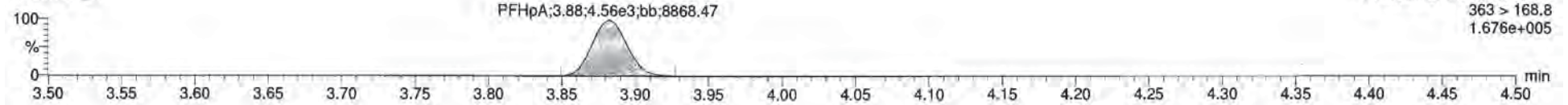
ID: ST170307G1-1 PFC CS3 17C0701, Description: PFC CS3 17C0701 A, Name: 170307G1_2, Date: 07-Mar-2017, Time: 09:14:04, Instrument: , Lab: , User:

PFHpA

170307G1_2

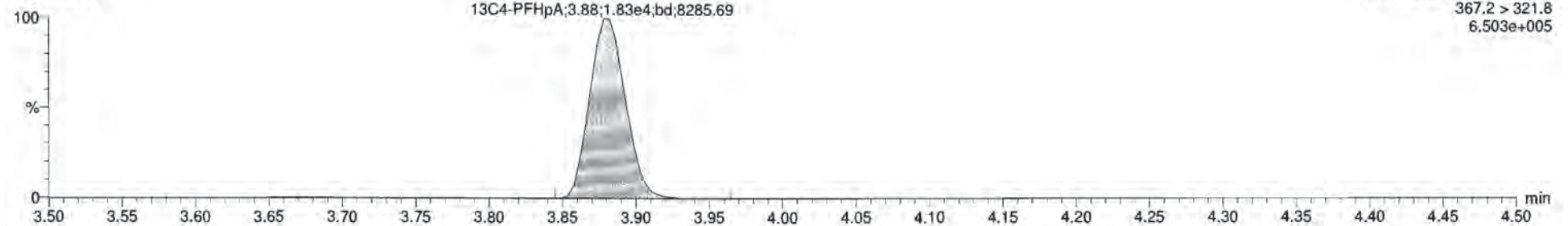


170307G1_2



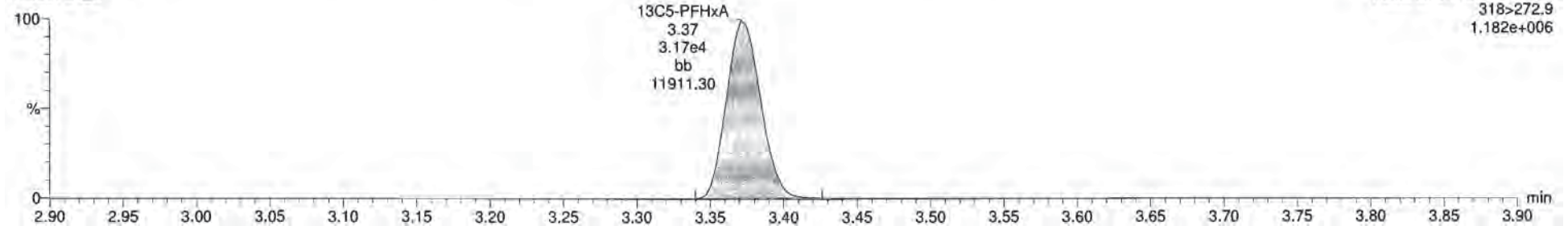
13C4-PFHpA

170307G1_2



13C5-PFHxA

170307G1_2



Dataset: Untitled

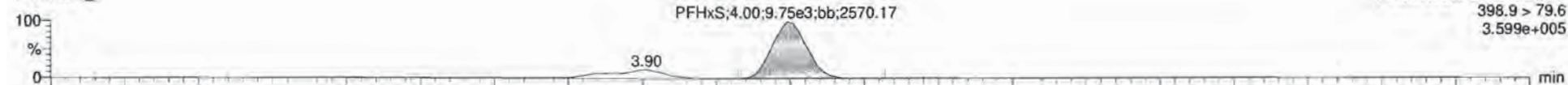
Last Altered: Tuesday, March 07, 2017 09:55:08 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:55:29 Pacific Standard Time

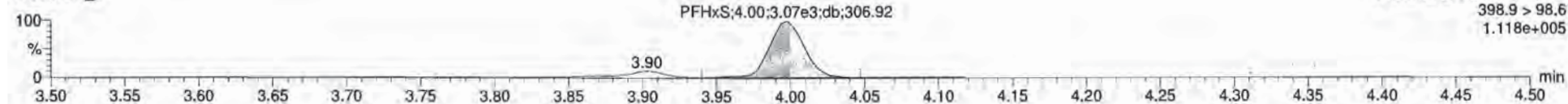
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PFHxS

170307G1_2

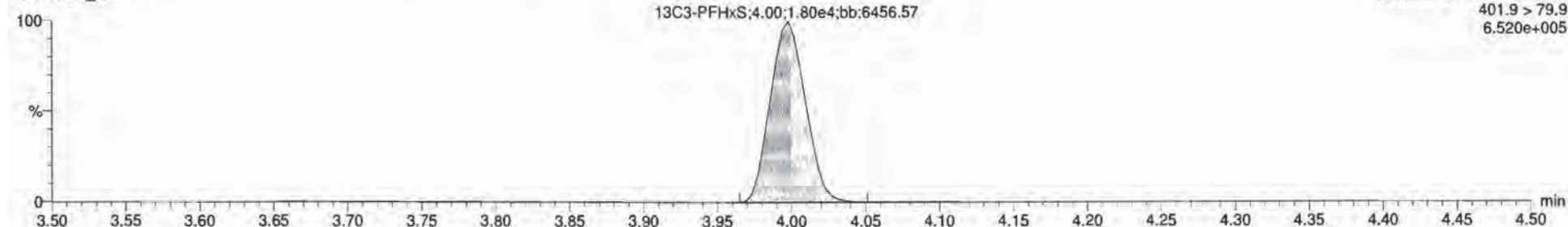


170307G1_2



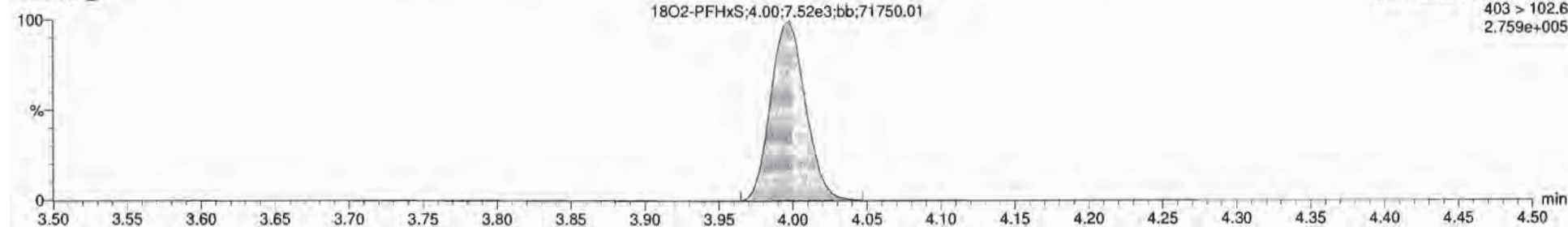
13C3-PFHxS

170307G1_2

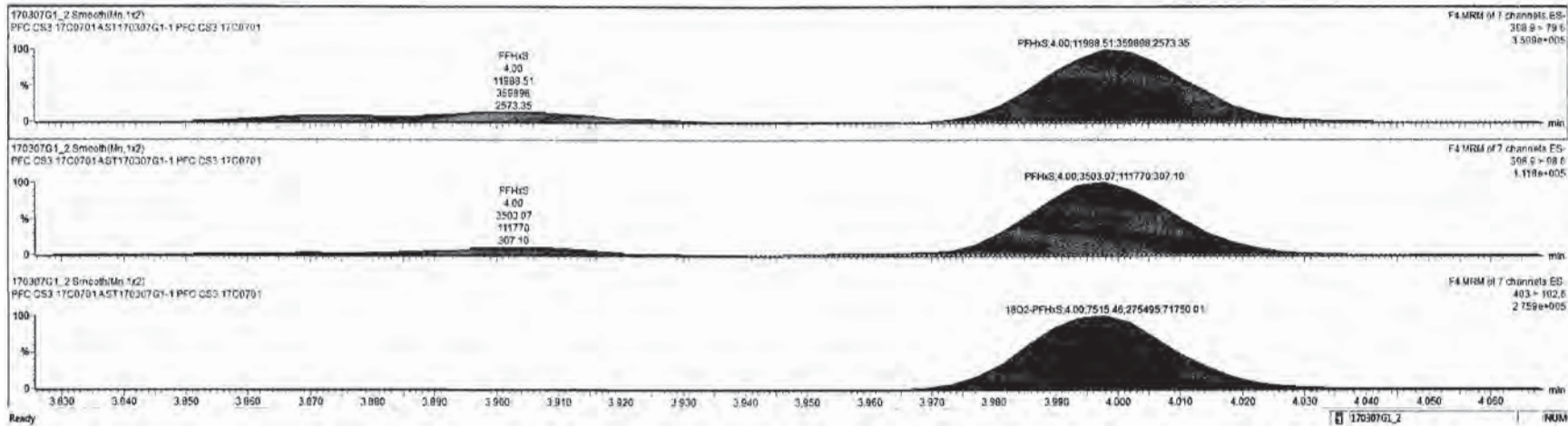


18O2-PFHxS

170307G1_2



170307G1_2 - ST170307G1-1 PFC CS3 17C0701 PFC CS3 17C0701A																					
Item	Name	Conc	DL	SLRec	EWAC	Abn Resp	RFI	#	SR	RA	Y/N	RYI	Acq Date	Acq Time	1* Ch Name	ID	Sample Test	Factor1	SWI	Cal File	>MDL
1	PFBS	9.5530561	0.0000	95.5		1.31544	2.89	1	7	0.420	YES	1.001	07-Mar-17	09:14:04	34.534	ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES
2	PFHxA	10.431872	0.0000	104.3		2.77264	3.00	2	8			1.001	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES
3	PFHxS	11.9990300	0.0000	119.4		7.19964	4.00	3	9			1.006	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES
4	PFOA	8.9607393	0.0000	95.6		2.44444	4.25	4	10			1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES
5	PFNA	9.9389371	0.0000	99.4		1.66694	4.61	5	11			1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES
6	PFO3	9.7730628	0.0000	97.7		3.37743	4.67	6	12			1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES
7	13C3-PFBS	12.234542	0.00100	87.9		7.20363	8.410	2.99	7	14		0.887	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
8	13C4-PFHxA	11.627334	0.00343	93.0		1.63444	1.090	3.88	8	14		0.970	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
9	18O2-PFHxS	12.850037	0.000424	96.4		7.51543	6.434	4.00	9	14		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
10	13C2-PFOA	12.248430	0.0271	96.0		3.61364	4.608	4.20	10	15		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
11	13C5-PFNA	11.958032	0.00480	95.6		8.54843	0.667	4.81	11	18		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
12	13C8-PFO3	12.811481	0.000827	102.5		8.10143	0.658	4.67	12	17		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
13	13C5-PFHxA	12.500000	0.00202	100.0		3.17864	1.000	3.37	13	13		0.800	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
14	13C3-PFHxS	12.580000	0.00464	100.0		1.79584	1.000	4.00	14	14		0.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
15	13C8-PFOA	12.500000	0.0118	100.0		6.44443	1.000	4.25	15	15		0.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
16	13C8-PFNA	12.580000	0.00521	100.0		1.03164	1.000	4.61	16	16		0.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
17	13C4-PFO3	12.500000	0.00208	100.0		8.24863	1.000	4.67	17	17		0.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
18	Total PFBS	9.5530501							15				07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
19	Total PFHxS	12.827396							19				07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
20	Total PFOA	9.6607363							20				07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO
21	Total PFO3	13.181636	0.0067						21				07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO

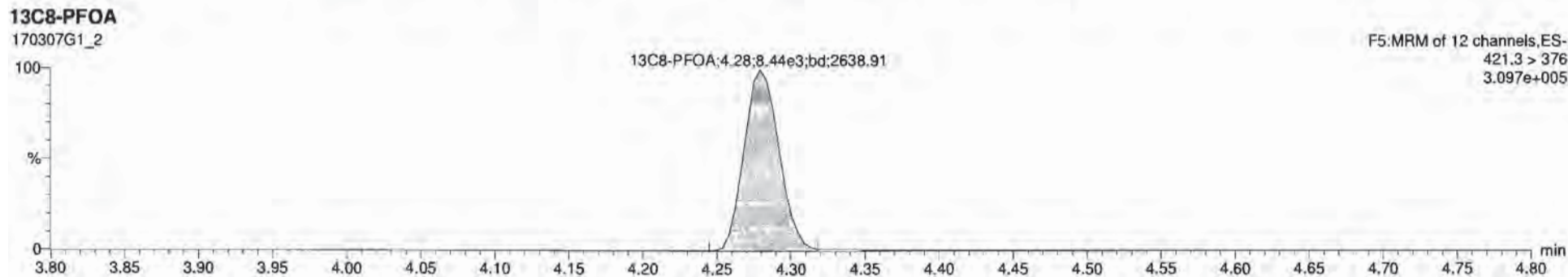
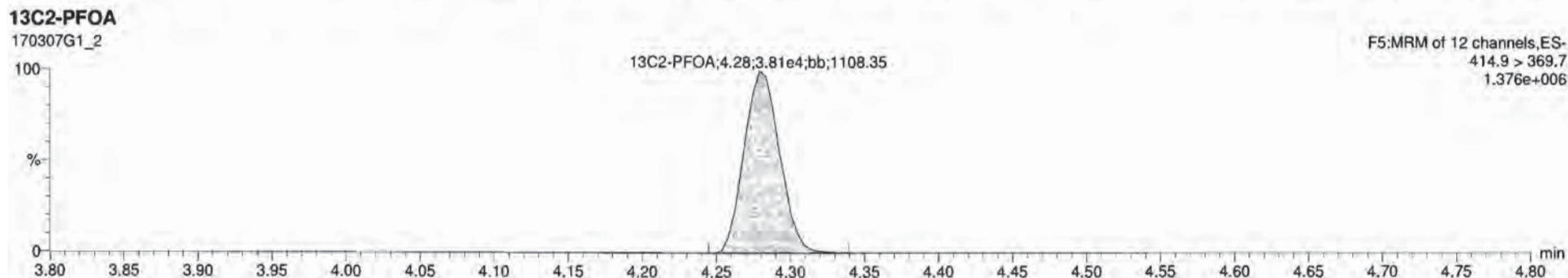
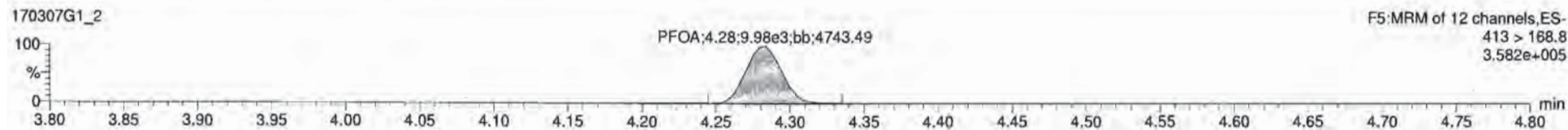
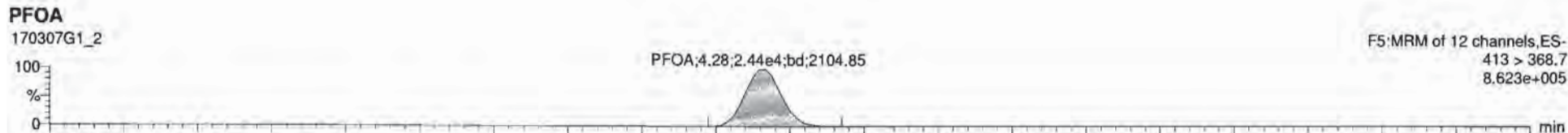


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Last Altered: Tuesday, March 07, 2017 09:55:08 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:55:29 Pacific Standard Time

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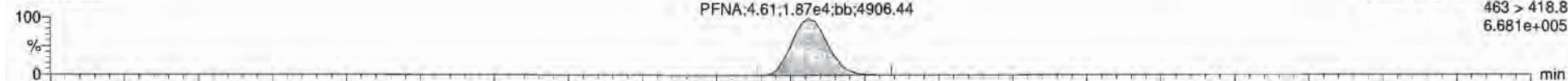
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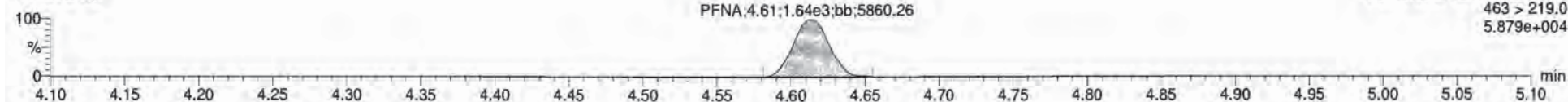
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PFNA

170307G1_2

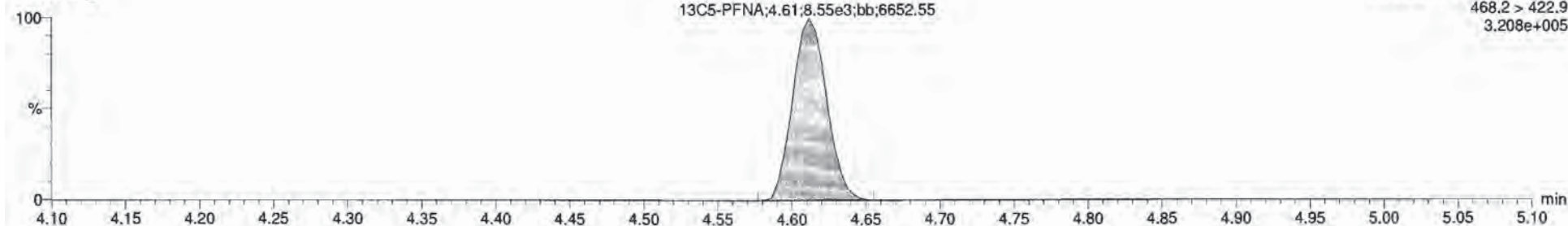


170307G1_2



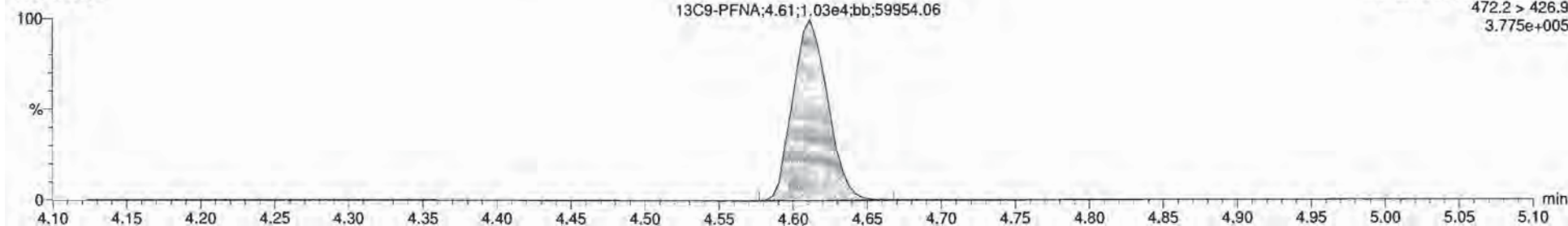
13C5-PFNA

170307G1_2



13C9-PFNA

170307G1_2

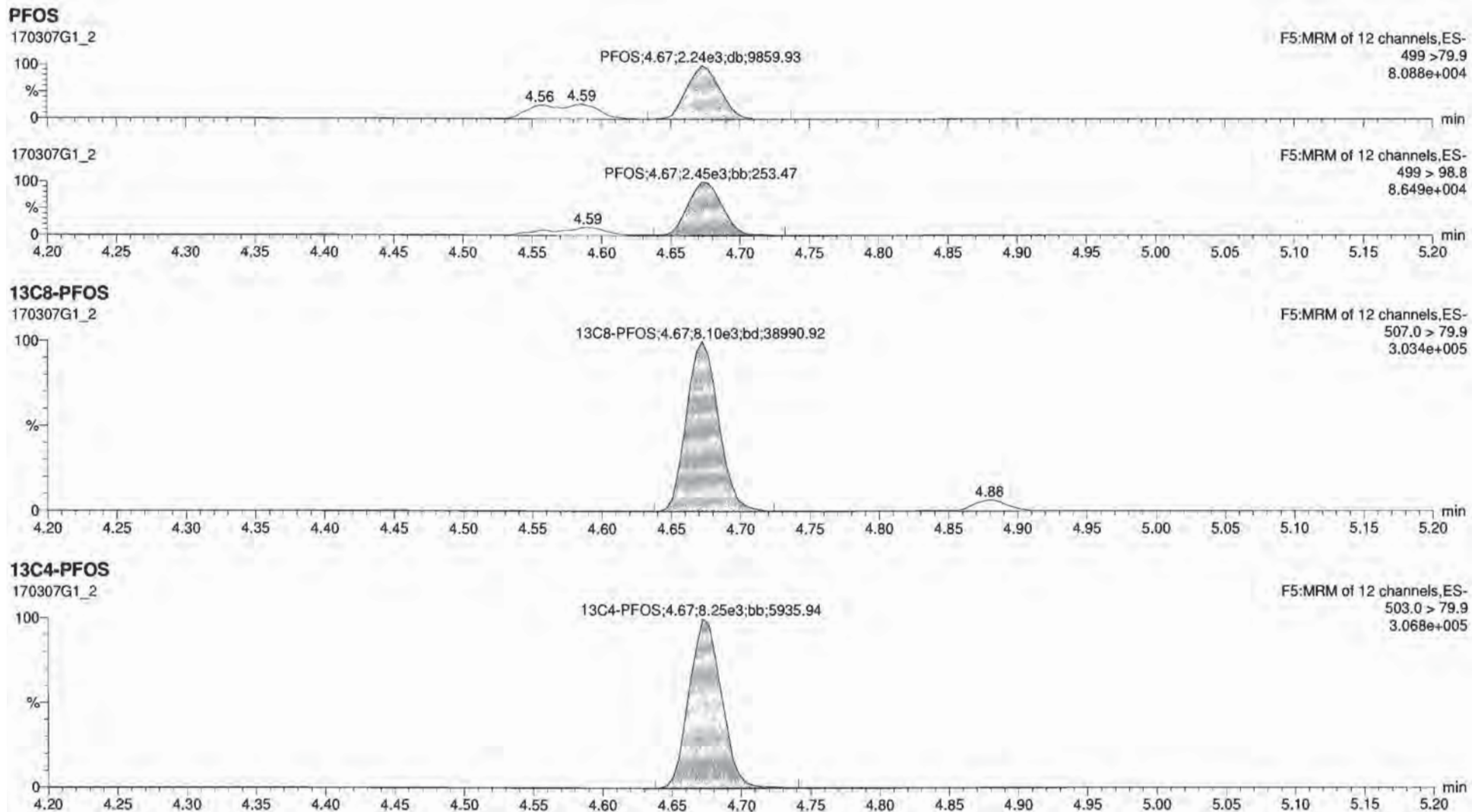


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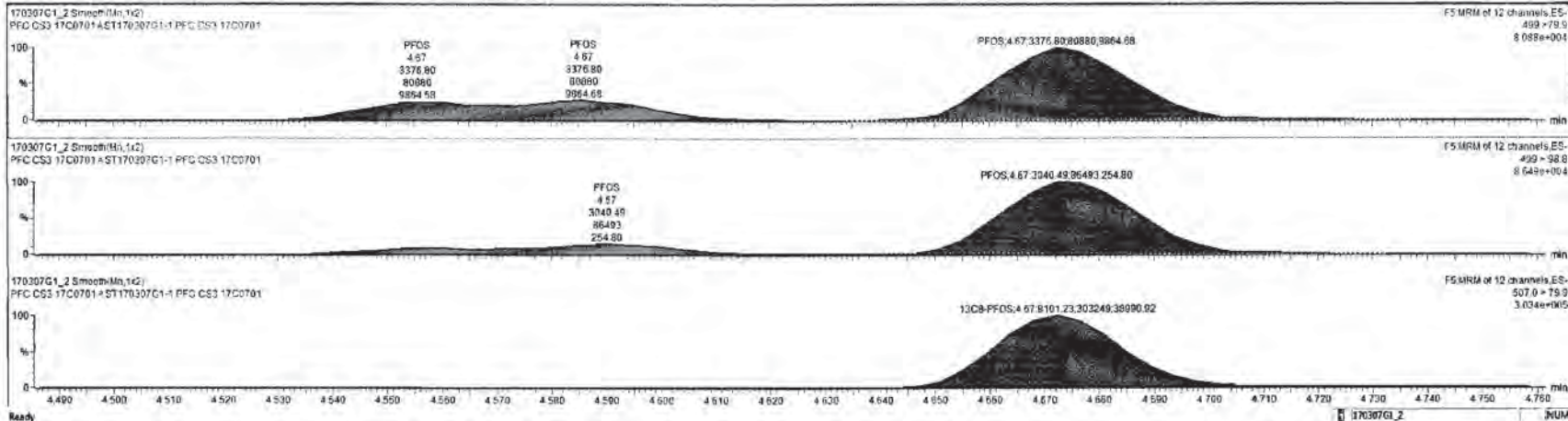
Last Altered: Tuesday, March 07, 2017 09:55:08 Pacific Standard Time

Printed: Tuesday, March 07, 2017 09:55:29 Pacific Standard Time

ID: ST170307G1-1 PFC CS3 17C0701, Description: PFC CS3 17C0701 A, Name: 170307G1_2, Date: 07-Mar-2017, Time: 09:14:04, Instrument: , Lab: , User:



Name	Conc	OL	%Rec	EMPC	Abs Resp	RF	RT	#	SB	RA	Y/N	RRT	Acq Date	Acq Time	1 st Chr Name	D	Sample Text	Factor1	SWL	Cal File	>MUL
1 PFBS	9.553501	0.6000	85.5		1.315e4	2.99	1	7	0.420	YES	1.001	07-Mar-17	09:14:04	04:534	ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES	
2 PFHpA	10.431872	0.6000	104.3		2.772e4	3.88	2	8			1.001	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES	
3 PFHxS	10.938263	0.6000	109.4		1.199e4	4.00	3	9			1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES	
4 PFDA	9.8607393	0.6000	98.6		2.444e4	4.28	4	10			1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES	
5 PFNA	9.9380371	0.6000	99.4		1.866e4	4.61	5	11			1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES	
6 PFOS	9.7738028	0.6000	97.7		3.377e3	4.87	6	12			1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	YES	
7 13C3-PFBS	12.234542	0.00100	97.9		7.203e3	0.410	2.99	7	14		0.887	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
8 13C4-PFHpA	11.627354	0.00343	91.0		1.834e4	1.956	3.68	8	14		0.870	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
9 13C2-PFHxS	12.959037	0.00424	96.4		7.515e3	0.434	4.00	9	14		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
10 13C2-PFDA	12.248430	0.00271	96.0		3.813e4	4.600	4.28	10	15		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
11 13C4-PFNA	11.866032	0.00489	95.6		8.545e3	0.367	4.61	11	16		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
12 13C3-PFOS	12.811481	0.00607	102.5		6.101e3	0.358	4.87	12	17		1.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
13 13C5-PFNA	12.500000	0.00262	100.0		3.170e4	1.900	3.37	13	13		0.000	07-Mar-17	09:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
14 13C3-PFHxS	12.500000	0.00464	100.0		1.795e4	1.000	4.00	14	14		0.000	07-Mar-17	08:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
15 13C4-PFDA	12.500000	0.0118	100.0		8.444e3	1.000	4.28	15	15		0.000	07-Mar-17	08:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
16 13C3-PFNA	12.500000	0.00521	100.0		1.071e4	1.000	4.61	16	16		0.000	07-Mar-17	08:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
17 13C4-PFOS	12.500000	0.00526	100.0		8.248e3	1.900	4.67	17	17		0.000	07-Mar-17	08:14:04		ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
18 Total PFBS	9.553501						16						07-Mar-17	09:14:04	ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
19 Total PFHpA	10.431872						19						07-Mar-17	09:14:04	ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
20 Total PFHxS	9.8607393						20						07-Mar-17	09:14:04	ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	
21 Total PFOS	13.181636	0.6000					21						07-Mar-17	09:14:04	ST170307G	PFC CS3 17C07	1.0	1.00	C18_V	NO	



Dataset: U:\G1.PRO\Results\2017\New folder\170307G1-8.qld

Last Altered: Tuesday, March 07, 2017 10:55:27 Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:55:59 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170307G1_8, Date: 07-Mar-2017, Time: 10:29:40, ID: ST170307G1-2 PFC CS3 17C0701, Description: PFC CS3 17C0701 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.56e4	7.84e3		1.000	2.99	10.4	104.0
2	2 PFHpA	363 > 318.9	3.08e4	1.95e4		1.000	3.88	10.9	109.1
3	3 PFHxS	398.9 > 79.6	1.22e4	8.14e3		1.000	4.00	10.3	102.6
4	4 PFOA	413 > 368.7	2.90e4	4.09e4		1.000	4.28	10.9	109.3
5	5 PFNA	463 > 418.8	2.28e4	9.69e3		1.000	4.62	10.7	107.2
6	6 PFOS	499 > 79.9	4.26e3	9.91e3		1.000	4.68	10.1	100.9
7	7 13C3-PFBS	302.0 > 98.8	7.84e3	1.97e4	0.410	1.000	2.99	12.1	97.1
8	8 13C4-PFHpA	367.2 > 321.8	1.95e4	1.97e4	1.098	1.000	3.88	11.3	90.2
9	9 18O2-PFHxS	403 > 102.6	8.14e3	1.97e4	0.434	1.000	4.00	11.9	95.1
10	10 13C2-PFOA	414.9 > 369.7	4.09e4	1.00e4	4.608	1.000	4.28	11.1	88.7
11	11 13C5-PFNA	468.2 > 422.9	9.69e3	1.22e4	0.867	1.000	4.61	11.4	91.5
12	12 13C8-PFOS	507.0 > 79.9	9.91e3	1.02e4	0.958	1.000	4.67	12.7	101.8
13	13 13C5-PFHxA	318 > 272.9	3.64e4	3.64e4	1.000	1.000	3.37	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.97e4	1.97e4	1.000	1.000	4.00	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	1.00e4	1.00e4	1.000	1.000	4.28	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.22e4	1.22e4	1.000	1.000	4.61	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.02e4	1.02e4	1.000	1.000	4.68	12.5	100.0

75-125
↓
60-150
↓
50-150
60-150

of 3/7/17
✓ AC 3/7/17

Dataset: Untitled

Last Altered: Tuesday, March 07, 2017 10:58:31 Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:58:48 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

Name	ID	Acq.Date	Acq.Time
170307G1_1	IPA	07-Mar-17	09:01:51
170307G1_2	ST170307G1-1 PFC CS3 17C0701	07-Mar-17	09:14:04
170307G1_3	IPA	07-Mar-17	09:26:31
170307G1_4	1700263-04RE1@10X OW2C-MW25-0217 0....	07-Mar-17	09:39:38
170307G1_5	1700293-01@10X WI-CV-GW02S-0317 0.125	07-Mar-17	09:51:58
170307G1_6	1700293-02@10X WI-CV-GW02S/SP-0317 0....	07-Mar-17	10:04:33
170307G1_7	IPA	07-Mar-17	10:17:07
170307G1_8	ST170307G1-2 PFC CS3 17C0701	07-Mar-17	10:29:40
170307G1_9	IPA	07-Mar-17	10:42:20

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Last Altered: Tuesday, March 07, 2017 10:56:53 Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:57:19 Pacific Standard Time

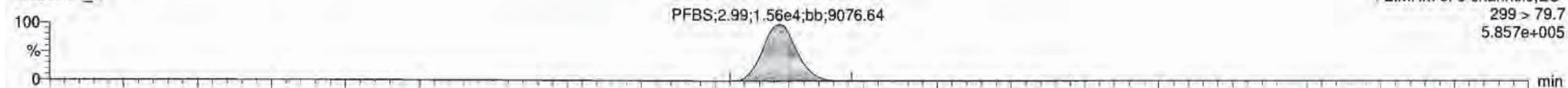
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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

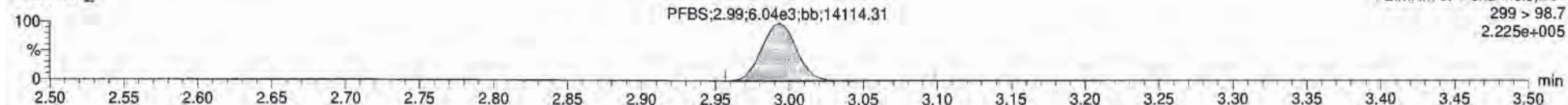
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PFBS

170307G1_8

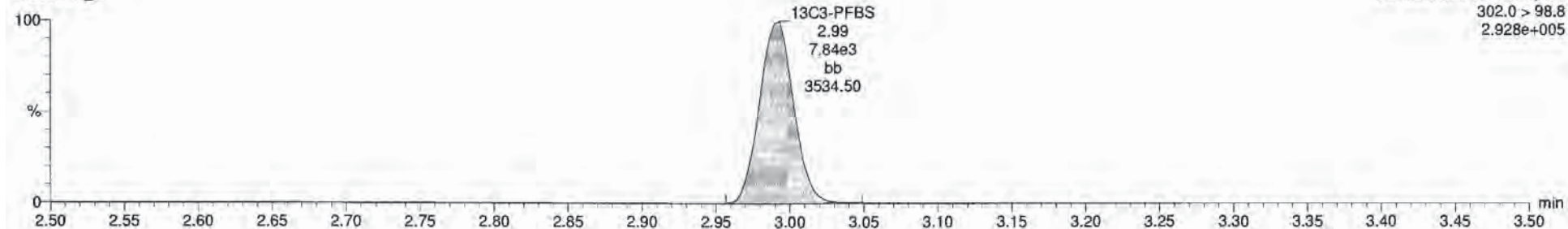


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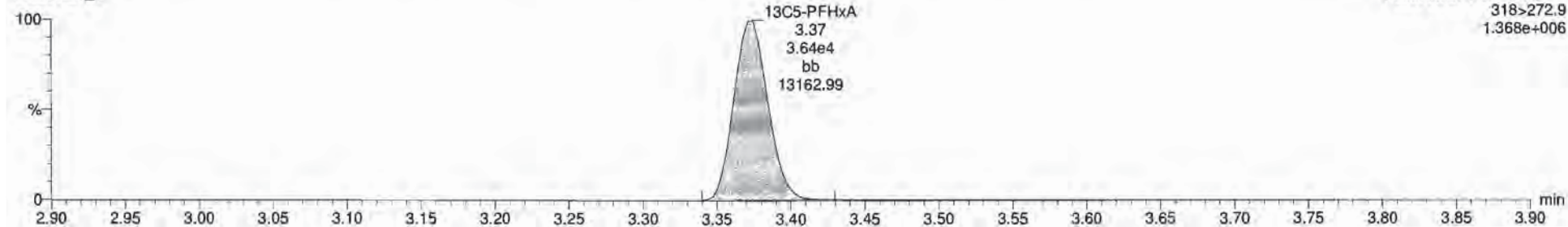
13C3-PFBS

170307G1_8



13C5-PFHxA

170307G1_8

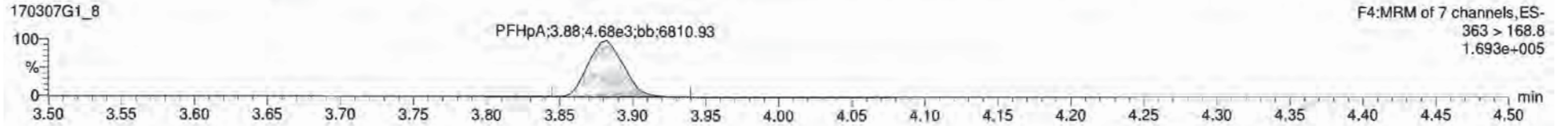


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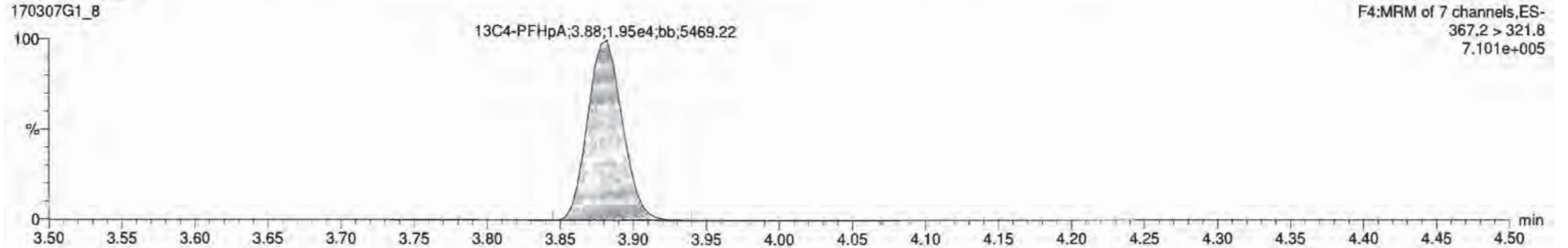
Last Altered: Tuesday, March 07, 2017 10:56:53 Pacific Standard Time
Printed: Tuesday, March 07, 2017 10:57:19 Pacific Standard Time

ID: ST170307G1-2 PFC CS3 17C0701, Description: PFC CS3 17C0701 A, Name: 170307G1_8, Date: 07-Mar-2017, Time: 10:29:40, Instrument: , Lab: , User:

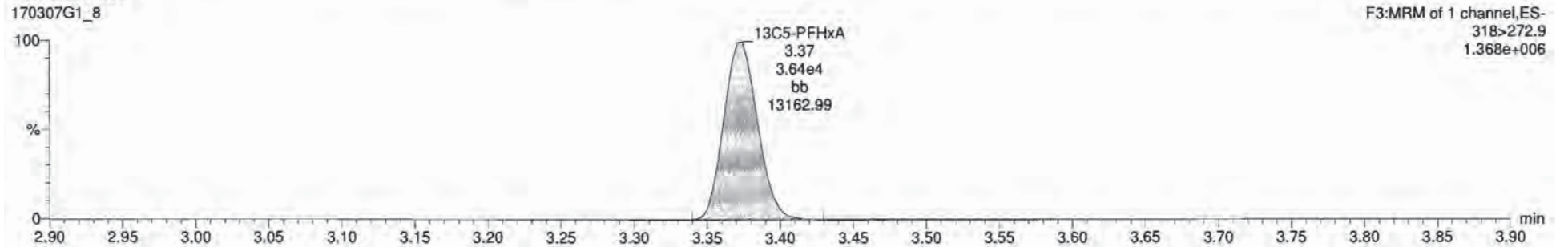
PFHpA



13C4-PFHpA



13C5-PFHxA



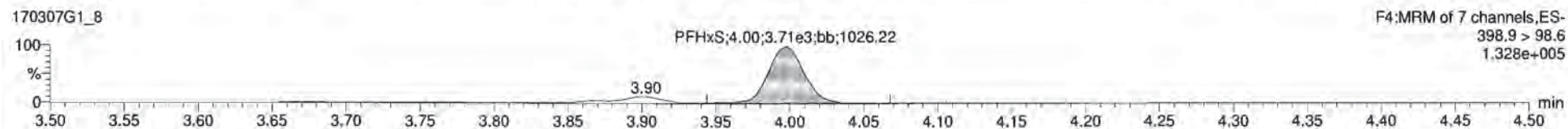
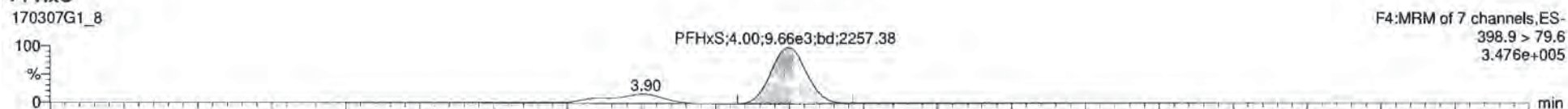
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Last Altered: Tuesday, March 07, 2017 10:56:53 Pacific Standard Time

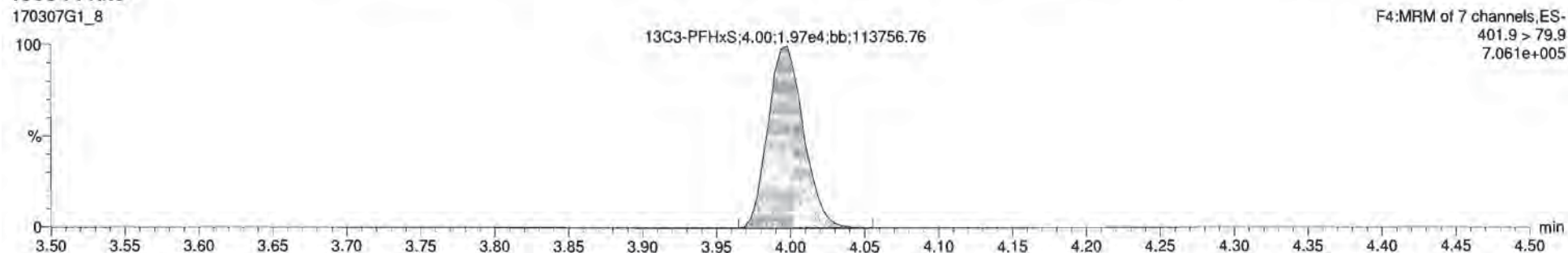
Printed: Tuesday, March 07, 2017 10:57:19 Pacific Standard Time

ID: ST170307G1-2 PFC CS3 17C0701, Description: PFC CS3 17C0701 A, Name: 170307G1_8, Date: 07-Mar-2017, Time: 10:29:40, Instrument: , Lab: , User:

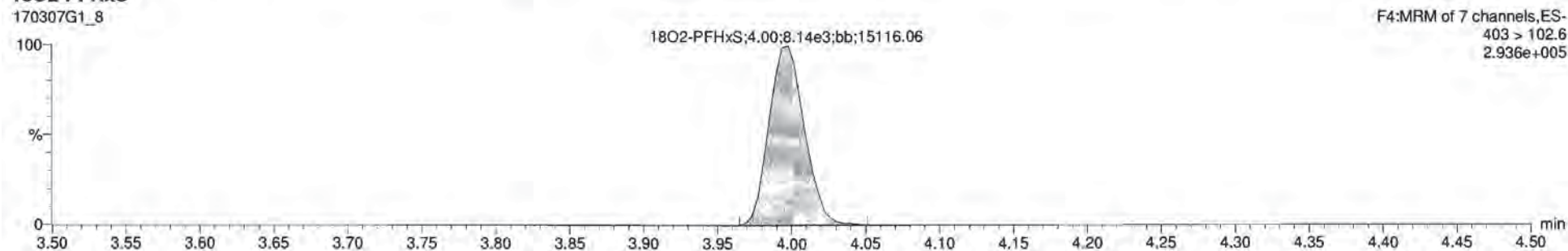
PFHxS



¹³C3-PFHxS



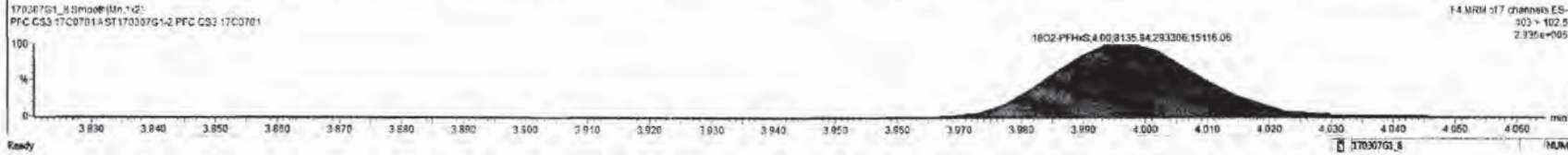
¹⁸O2-PFHxS





170307G1_8 ST170307G1-2 PFC CS3 17C0701 PFC CS3 17C0701A

#	Name	Trace	Area	SOP	WVAL	Prod RT	RT	Conc.	MDL	%Rec	DL
1	PFBS	299 > 79.7	1.56e4		1.000	2.99	2.99	10.4	YES	104.0	0.0000000
2	PFHA	363 > 318.9	2.90e4		1.000	3.68	3.68	10.9	YES	109.1	0.0000000
3	PFHS	268.9 > 79.8	1.22e4		1.000	4.09	4.09	11.3	YES	102.8	0.0000000
4	PFDA	413 > 368.7	2.90e4		1.000	4.28	4.28	10.9	YES	109.3	0.0000000
5	PFNA	463 > 418.8	2.20e4		1.000	4.61	4.62	10.7	YES	107.2	0.0000000
6	PFOS	499 > 479.9	4.28e3		1.000	4.68	4.60	10.1	YES	100.9	0.1020764
7	13C3-PFBS	502.0 > 96.8	7.64e3	0.410	1.000	2.99	2.99	12.1	NO	97.1	0.0089459
8	13C4-PFHA	367.2 > 321.8	1.95e4	1.10	1.000	3.68	3.68	11.3	NO	90.2	0.0052350
9	18O2-PFHS	403 > 102.6	8.14e3	0.434	1.000	4.09	4.00	11.8	NO	95.1	0.0019207
10	13C2-PFOA	414.9 > 368.7	4.09e4	4.61	1.000	4.28	4.20	11.1	NO	88.7	0.0075007
11	13C5-PFNA	468.2 > 422.9	9.09e3	0.067	1.000	4.61	4.51	11.4	NO	91.5	0.0193858
12	13C6-PFOS	507.9 > 79.9	9.91e3	0.956	1.000	4.68	4.67	12.7	NO	101.6	0.0079572
13	13C5-PFHA	318 > 272.9	3.64e4	1.00	1.000	3.29	3.37	12.5	NO	100.0	0.0021741
14	13C5-PFHS	401.9 > 79.9	1.97e4	1.00	1.000	3.84	4.00	12.5	NO	100.0	0.0002747
15	13C6-PFOA	421.3 > 376	1.00e4	1.00	1.000	4.22	4.28	12.5	NO	100.0	0.0099967
16	13C3-PFNA	472.2 > 426.9	1.22e4	1.00	1.000	4.56	4.61	12.5	NO	100.0	0.0113211
17	13C4-PFOS	503.0 > 79.9	1.02e4	1.00	1.000	4.67	4.66	12.5	NO	100.0	0.0009499
18	Total PFBS	299 > 79.7	1.56e4		1.000	3.11		10.4	NO		
19	Total PFHS	268.9 > 79.8	1.46e4		1.000	4.09		12.2	NO		
20	Total PFDA	413 > 368.7	2.90e4		1.000	4.38		10.9	NO		
21	Total PFOS	499 > 479.9	4.28e3		1.000	4.67		11.6	NO		0.1020764



Dataset: Untitled

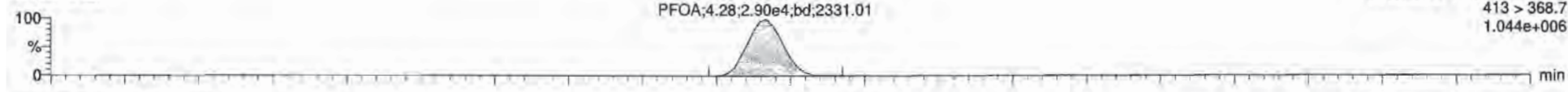
Last Altered: Tuesday, March 07, 2017 10:56:53 Pacific Standard Time

Printed: Tuesday, March 07, 2017 10:57:19 Pacific Standard Time

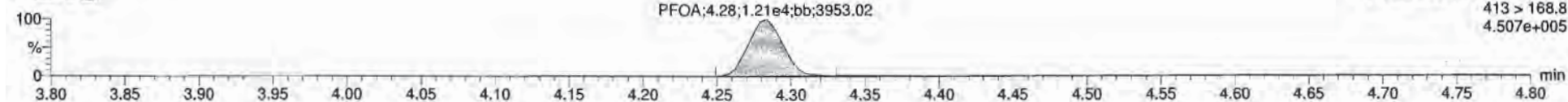
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PFOA

170307G1_8

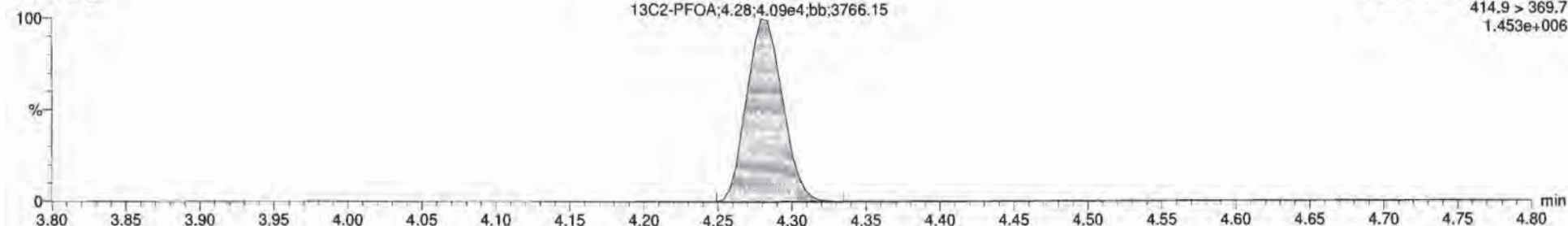


170307G1_8



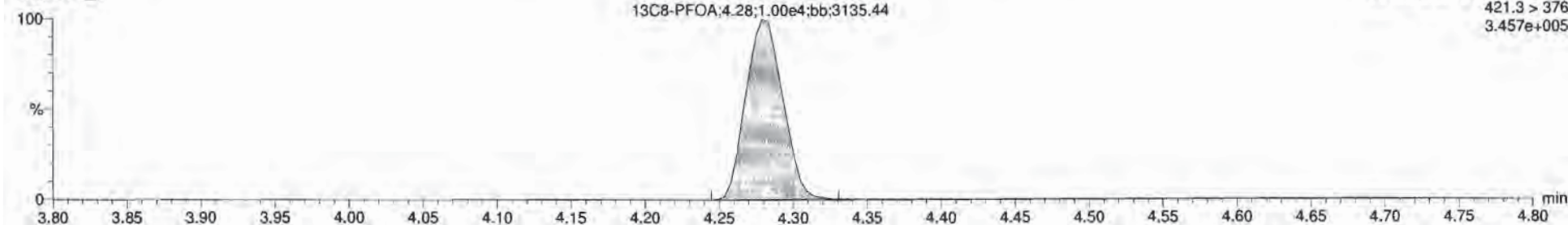
13C2-PFOA

170307G1_8



13C8-PFOA

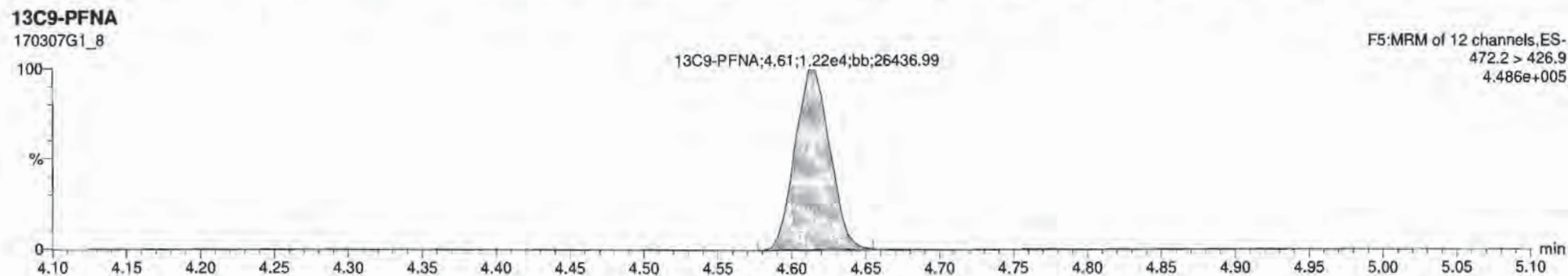
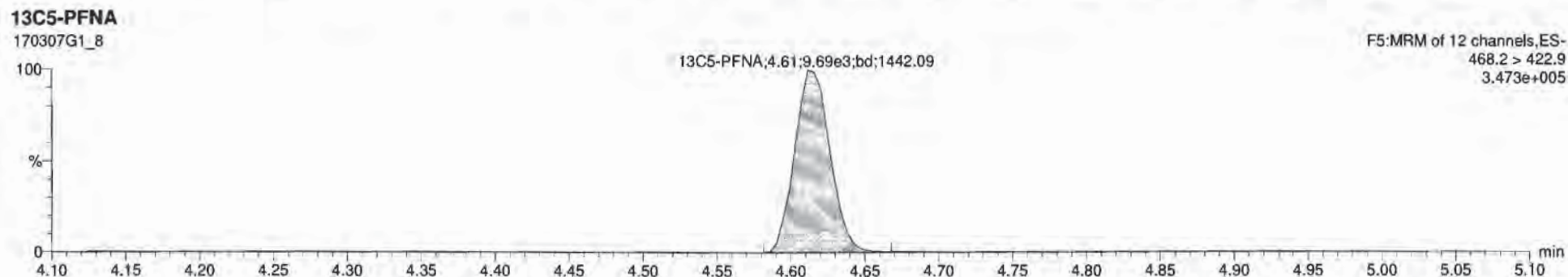
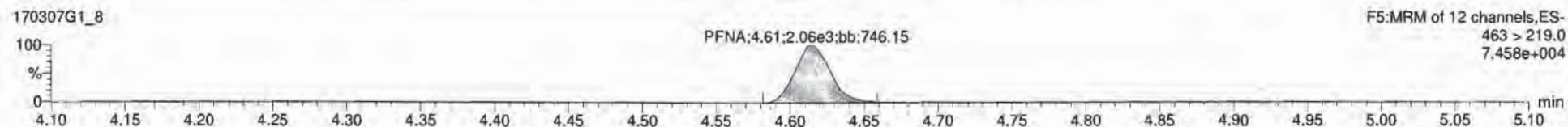
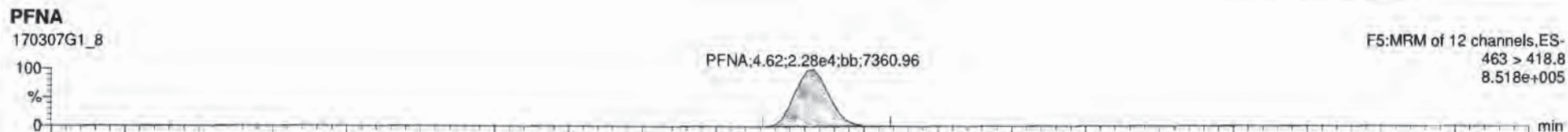
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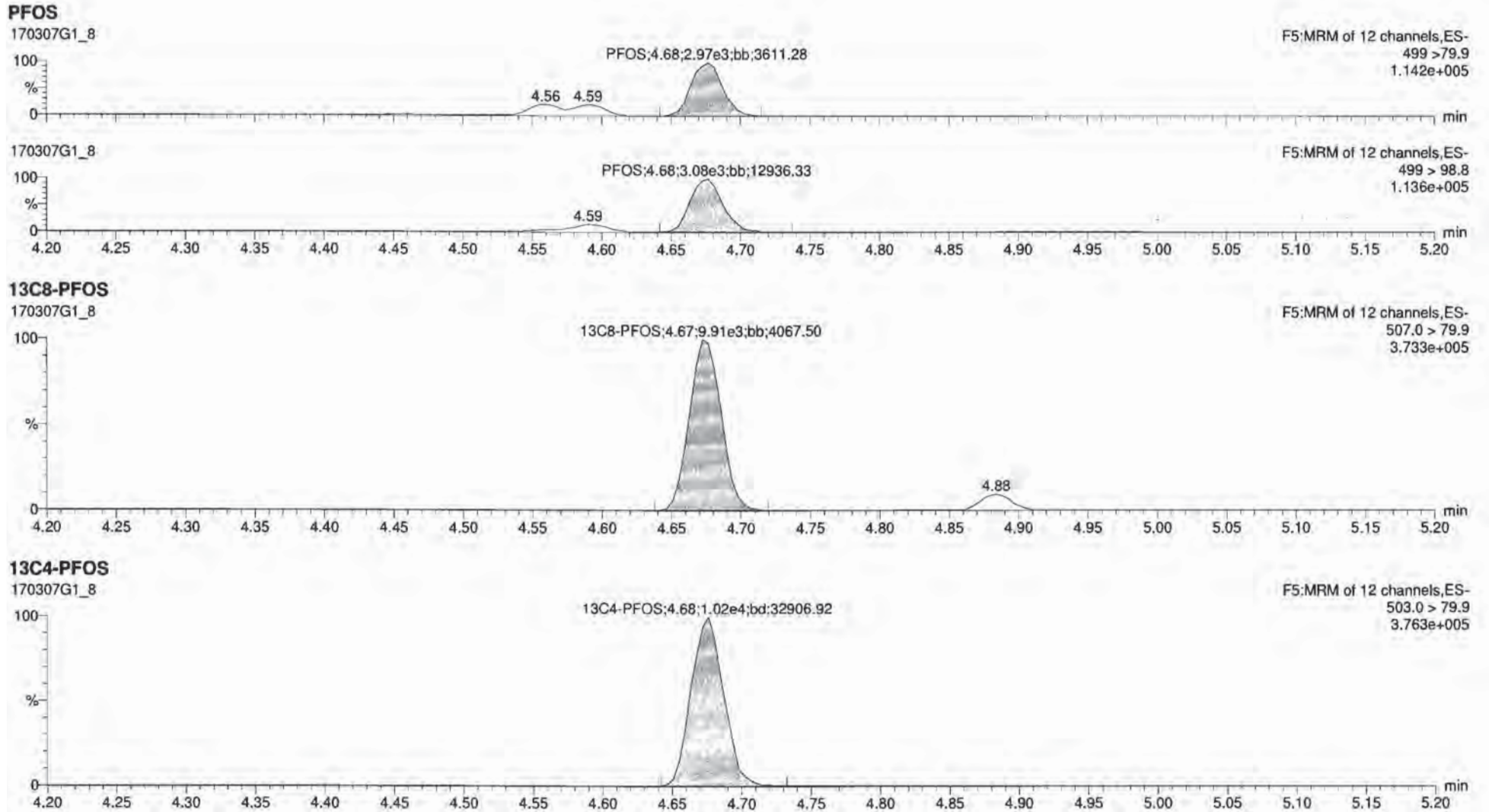
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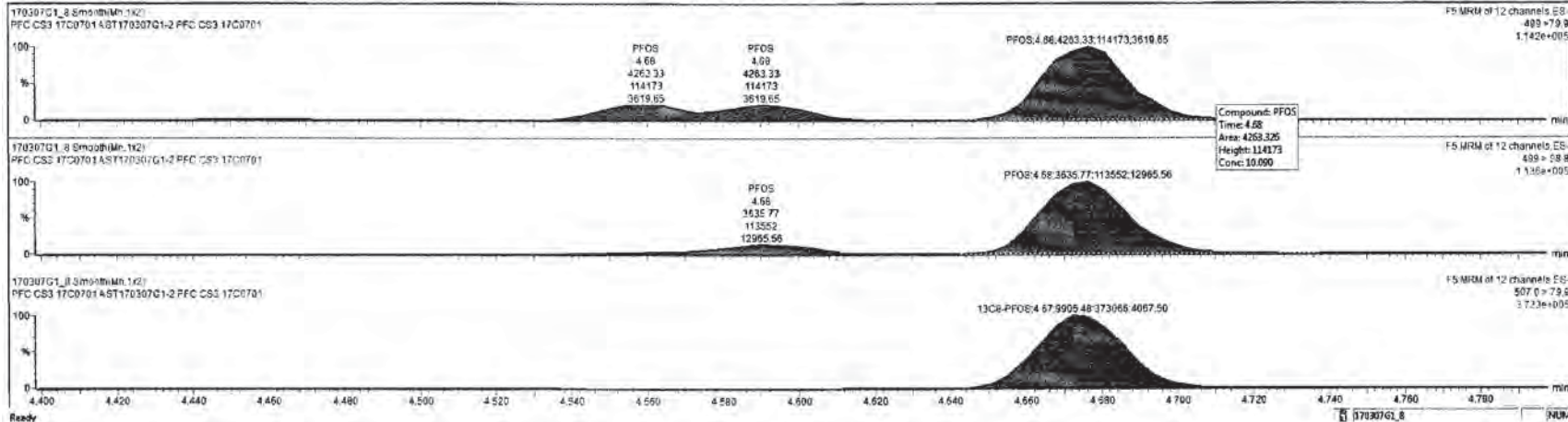
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Last Altered: Tuesday, March 07, 2017 10:56:53 Pacific Standard Time
Printed: Tuesday, March 07, 2017 10:57:19 Pacific Standard Time

ID: ST170307G1-2 PFC CS3 17C0701, Description: PFC CS3 17C0701 A, Name: 170307G1_8, Date: 07-Mar-2017, Time: 10:29:40, Instrument: , Lab: , User:



#	Name	Trace	Area	RFI	WVAL	Prod RT	RT	Comp	WOL	%Rec	DL
1	PFBS	299 > 79.7	1.5664		1.000	2.99	2.99	10.4	YES	104.0	0.0000000
2	PFHxA	363 > 318.9	3.0944		1.000	3.85	3.88	10.9	YES	109.1	0.0000000
3	PFHxS	398.9 > 79.6	1.2244		1.000	4.00	4.00	10.3	YES	102.6	0.0000000
4	PFOA	413 > 368.7	2.9044		1.000	4.28	4.28	10.9	YES	109.3	0.0000000
5	PFHA	483 > 418.6	2.2844		1.000	4.81	4.82	10.7	YES	107.2	0.0000000
6	PFOS	499 > 79.9	4.8944		1.000	4.88	4.88	10.1	YES	106.9	0.1020784
7	13C3-PFBS	262.0 > 88.8	7.8443	6.410	1.000	2.99	2.99	12.1	NO	97.1	0.0088459
8	13C4-PFHxA	267.2 > 321.8	1.9544	1.10	1.000	3.85	3.88	11.3	NO	90.2	0.0052330
9	13C2-PFHxS	403 > 102.6	8.1443	6.434	1.000	4.00	4.00	11.9	NO	95.1	0.0019807
10	13C2-PFOA	414.9 > 369.7	4.9944	4.61	1.000	4.28	4.28	11.1	NO	88.7	0.0074607
11	13C5-PFHA	468.2 > 422.9	5.6943	5.987	1.000	4.81	4.81	11.4	NO	91.5	0.0195886
12	13C8-PFOS	507.0 > 79.9	9.9143	8.958	1.000	4.88	4.87	12.7	NO	101.8	0.0079572
13	13C5-PFHxA	318 > 272.9	3.6444	1.90	1.000	3.29	3.27	12.6	NO	100.0	0.0023741
14	13C3-PFHxS	481.9 > 79.8	1.9744	1.80	1.000	3.94	4.80	12.5	NO	100.0	0.0002747
15	13C8-PFOA	421.3 > 378	1.8044	1.80	1.000	4.23	4.28	12.5	NO	100.0	0.0099967
16	13C9-PFHxA	472.2 > 426.9	1.2244	1.00	1.000	4.56	4.61	12.5	NO	100.0	0.0011321
17	13C4-PFOS	503.0 > 79.9	1.9244	1.00	1.000	4.87	4.88	12.5	NO	100.0	0.0029498
18	Total PFBS	299 > 79.7	1.5664		1.000	3.11		10.4	NO		
19	Total PFHxS	398.9 > 79.6	1.4644		1.000	4.09		12.2	NO		
20	Total PFOA	413 > 368.7	2.9044		1.000	4.39		10.9	NO		
21	Total PFOS	499 > 79.9	4.8943		1.000	4.87		11.8	NO		0.1020784



INITIAL CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
Printed: Monday, March 06, 2017 08:29:13 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:19:21

Compound name: PFBS

Correlation coefficient: $r = 0.999596$, $r^2 = 0.999192$

Calibration curve: $2.38097 * x + 0.0682571$

Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)

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

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	3.05	3.44e2	6.21e3	0.263	5.1	2.77
2	2 170305G1_3	0.500	3.05	6.19e2	6.45e3	0.475	-5.0	2.40
3	3 170305G1_4	1.00	3.04	1.07e3	5.41e3	1.01	1.1	2.47
4	4 170305G1_5	2.00	3.03	2.78e3	7.24e3	1.99	-0.7	2.40
5	5 170305G1_6	5.00	3.03	5.91e3	6.73e3	4.58	-8.4	2.20
6	6 170305G1_7	10.0	3.03	1.12e4	5.49e3	10.7	7.2	2.56
7	7 170305G1_8	50.0	3.03	5.43e4	5.58e3	51.1	2.1	2.43
8	8 170305G1_9	100	3.03	9.61e4	5.11e3	98.6	-1.4	2.35

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Compound name: PFHpA

Correlation coefficient: $r = 0.999429$, $r^2 = 0.998857$

Calibration curve: $1.79957 * x + 0.123896$

Response type: Internal Std (Ref 8), Area * (IS Conc. / IS Area)

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

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	3.93	7.46e2	1.70e4	0.235	-5.8	2.19
2	2 170305G1_3	0.500	3.92	1.43e3	1.69e4	0.518	3.7	2.11
3	3 170305G1_4	1.00	3.91	2.27e3	1.52e4	0.964	-3.6	1.86
4	4 170305G1_5	2.00	3.91	5.65e3	1.86e4	2.05	2.3	1.90
5	5 170305G1_6	5.00	3.91	1.36e4	1.95e4	4.78	-4.4	1.74
6	6 170305G1_7	10.0	3.91	1.98e4	1.29e4	10.6	6.4	1.93
7	7 170305G1_8	50.0	3.91	1.16e5	1.55e4	51.9	3.8	1.87
8	8 170305G1_9	100	3.91	1.99e5	1.42e4	97.6	-2.4	1.76

✓ AC
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Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
 Printed: Monday, March 06, 2017 08:29:13 Pacific Standard Time

Compound name: PFHxS

Correlation coefficient: $r = 0.999200$, $r^2 = 0.998401$

Calibration curve: $1.81334 * x + 0.103191$

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

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

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.04	3.26e2	7.11e3	0.259	3.8	2.29
2	2 170305G1_3	0.500	4.03	5.47e2	6.83e3	0.496	-0.9	2.00
3	3 170305G1_4	1.00	4.03	8.97e2	5.85e3	1.00	0.1	1.92
4	4 170305G1_5	2.00	4.03	2.23e3	7.43e3	2.01	0.5	1.87
5	5 170305G1_6	5.00	4.03	5.17e3	7.64e3	4.60	-8.0	1.69
6	6 170305G1_7	10.0	4.03	6.69e3	4.52e3	10.1	1.5	1.85
7	7 170305G1_8	50.0	4.03	4.78e4	6.24e3	52.8	5.6	1.92
8	8 170305G1_9	100	4.03	8.33e4	5.89e3	97.4	-2.6	1.77

Compound name: PFOA

Correlation coefficient: $r = 0.998804$, $r^2 = 0.997609$

Calibration curve: $0.794457 * x + 0.179058$

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

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

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.32	1.04e3	3.51e4	0.241	-3.7	1.48
2	2 170305G1_3	0.500	4.31	1.52e3	3.53e4	0.452	-9.6	1.08
3	3 170305G1_4	1.00	4.30	2.09e3	2.91e4	0.908	-9.2	0.901
4	4 170305G1_5	2.00	4.30	5.39e3	3.70e4	2.06	3.1	0.909
5	5 170305G1_6	5.00	4.30	1.24e4	3.46e4	5.43	8.5	0.898
6	6 170305G1_7	10.0	4.30	1.56e4	2.18e4	11.0	9.8	0.890
7	7 170305G1_8	50.0	4.30	1.10e5	3.30e4	52.3	4.6	0.835
8	8 170305G1_9	100	4.30	1.98e5	3.22e4	96.4	-3.6	0.767

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
 Printed: Monday, March 06, 2017 08:29:13 Pacific Standard Time

Compound name: PFNA

Correlation coefficient: $r = 0.999011$, $r^2 = 0.998022$

Calibration curve: $2.73664 * x + 0.0966541$

Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)

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

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.65	5.06e2	8.36e3	0.241	-3.5	3.03
2	2 170305G1_3	0.500	4.64	8.81e2	7.67e3	0.489	-2.1	2.87
3	3 170305G1_4	1.00	4.63	1.26e3	5.74e3	0.968	-3.2	2.75
4	4 170305G1_5	2.00	4.63	3.17e3	6.97e3	2.04	2.0	2.84
5	5 170305G1_6	5.00	4.63	7.77e3	7.48e3	4.71	-5.8	2.60
6	6 170305G1_7	10.0	4.63	7.05e3	2.88e3	11.1	11.4	3.06
7	7 170305G1_8	50.0	4.63	7.41e4	6.50e3	52.1	4.1	2.85
8	8 170305G1_9	100	4.63	1.56e5	7.35e3	97.1	-2.9	2.66

Compound name: PFOS

Coefficient of Determination: $R^2 = 0.997963$

Calibration curve: $-0.000185224 * x^2 + 0.54028 * x + -0.0525057$

Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)

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

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	0.250	4.62	3.72e1	6.28e3	0.234	-6.3	0.296
2	2 170305G1_3	0.500	4.71	7.39e1	6.57e3	0.358	-28.5	0.281
3	3 170305G1_4	1.00	4.69	1.82e2	4.73e3	0.989	-1.1	0.482
4	4 170305G1_5	2.00	4.69	5.28e2	5.18e3	2.46	23.0	0.638
5	5 170305G1_6	5.00	4.69	1.23e3	5.64e3	5.14	2.8	0.544
6	6 170305G1_7	10.0	4.69	8.60e2	1.88e3	10.7	7.1	0.571
7	7 170305G1_8	50.0	4.69	1.04e4	5.14e3	47.8	-4.4	0.507
8	8 170305G1_9	100	4.69	2.64e4	6.26e3	101	1.1	0.527

Ⓐ Point excluded.
 2/3/6/17

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
 Printed: Monday, March 06, 2017 08:29:13 Pacific Standard Time

Compound name: 13C3-PFBS

Response Factor: 0.40994

RRF SD: 0.0411734, Relative SD: 10.0438

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	3.05	6.21e3	1.48e4	12.8	2.4	0.420
2	2 170305G1_3	12.5	3.05	6.45e3	1.61e4	12.2	-2.5	0.400
3	3 170305G1_4	12.5	3.03	5.41e3	1.44e4	11.5	-8.1	0.377
4	4 170305G1_5	12.5	3.03	7.24e3	1.74e4	12.7	1.2	0.415
5	5 170305G1_6	12.5	3.03	6.73e3	1.72e4	11.9	-4.7	0.391
6	6 170305G1_7	12.5	3.03	5.49e3	1.09e4	15.4	23.0	0.504
7	7 170305G1_8	12.5	3.03	5.58e3	1.48e4	11.5	-7.9	0.378
8	8 170305G1_9	12.5	3.03	5.11e3	1.29e4	12.1	-3.5	0.396

Compound name: 13C4-PFHpA

Response Factor: 1.09794

RRF SD: 0.0510391, Relative SD: 4.64862

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	3.92	1.70e4	1.48e4	13.1	5.0	1.15
2	2 170305G1_3	12.5	3.92	1.69e4	1.61e4	11.9	-4.5	1.05
3	3 170305G1_4	12.5	3.91	1.52e4	1.44e4	12.1	-3.4	1.06
4	4 170305G1_5	12.5	3.91	1.86e4	1.74e4	12.1	-3.1	1.06
5	5 170305G1_6	12.5	3.91	1.95e4	1.72e4	12.9	3.0	1.13
6	6 170305G1_7	12.5	3.91	1.29e4	1.09e4	13.4	7.6	1.18
7	7 170305G1_8	12.5	3.91	1.55e4	1.48e4	11.9	-4.4	1.05
8	8 170305G1_9	12.5	3.91	1.42e4	1.29e4	12.5	-0.2	1.10

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time

Printed: Monday, March 06, 2017 08:29:13 Pacific Standard Time

Compound name: 18O2-PFHxS

Response Factor: 0.434252

RRF SD: 0.0243573, Relative SD: 5.60903

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

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.04	7.11e3	1.48e4	13.8	10.7	0.481
2	2 170305G1_3	12.5	4.03	6.83e3	1.61e4	12.2	-2.6	0.423
3	3 170305G1_4	12.5	4.03	5.85e3	1.44e4	11.7	-6.2	0.407
4	4 170305G1_5	12.5	4.02	7.43e3	1.74e4	12.3	-1.8	0.426
5	5 170305G1_6	12.5	4.02	7.64e3	1.72e4	12.8	2.2	0.444
6	6 170305G1_7	12.5	4.02	4.52e3	1.09e4	12.0	-4.4	0.415
7	7 170305G1_8	12.5	4.02	6.24e3	1.48e4	12.1	-2.8	0.422
8	8 170305G1_9	12.5	4.02	5.89e3	1.29e4	13.1	5.0	0.456

Compound name: 13C2-PFOA

Response Factor: 4.60838

RRF SD: 0.269705, Relative SD: 5.85249

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

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.32	3.51e4	7.77e3	12.2	-2.0	4.51
2	2 170305G1_3	12.5	4.31	3.53e4	8.14e3	11.8	-5.8	4.34
3	3 170305G1_4	12.5	4.31	2.91e4	6.38e3	12.4	-1.0	4.56
4	4 170305G1_5	12.5	4.30	3.70e4	8.23e3	12.2	-2.4	4.50
5	5 170305G1_6	12.5	4.30	3.46e4	7.88e3	11.9	-4.6	4.40
6	6 170305G1_7	12.5	4.30	2.18e4	4.25e3	13.9	11.6	5.14
7	7 170305G1_8	12.5	4.30	3.30e4	7.29e3	12.3	-1.8	4.53
8	8 170305G1_9	12.5	4.30	3.22e4	6.59e3	13.3	6.0	4.89

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

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Compound name: 13C5-PFNA

Response Factor: 0.867114

RRF SD: 0.0501317, Relative SD: 5.78144

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

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.64	8.36e3	8.87e3	13.6	8.7	0.943
2	2 170305G1_3	12.5	4.64	7.67e3	8.20e3	13.5	7.9	0.936
3	3 170305G1_4	12.5	4.63	5.74e3	7.15e3	11.6	-7.4	0.803
4	4 170305G1_5	12.5	4.63	6.97e3	8.16e3	12.3	-1.4	0.855
5	5 170305G1_6	12.5	4.63	7.48e3	8.62e3	12.5	0.0	0.867
6	6 170305G1_7	12.5	4.63	2.88e3	3.54e3	11.7	-6.0	0.815
7	7 170305G1_8	12.5	4.63	6.50e3	7.60e3	12.3	-1.3	0.856
8	8 170305G1_9	12.5	4.63	7.35e3	8.52e3	12.4	-0.5	0.863

Compound name: 13C8-PFOS

Response Factor: 0.95832

RRF SD: 0.0597595, Relative SD: 6.23587

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

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.70	6.28e3	6.73e3	12.2	-2.5	0.934
2	2 170305G1_3	12.5	4.70	6.57e3	7.11e3	12.1	-3.6	0.924
3	3 170305G1_4	12.5	4.69	4.73e3	5.19e3	11.9	-4.7	0.913
4	4 170305G1_5	12.5	4.69	5.18e3	5.45e3	12.4	-0.9	0.950
5	5 170305G1_6	12.5	4.69	5.64e3	6.31e3	11.7	-6.8	0.894
6	6 170305G1_7	12.5	4.69	1.88e3	1.74e3	14.1	12.8	1.08
7	7 170305G1_8	12.5	4.69	5.14e3	5.13e3	13.1	4.4	1.00
8	8 170305G1_9	12.5	4.69	6.26e3	6.45e3	12.7	1.3	0.971

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

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Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	3.43	2.72e4	2.72e4	12.5	0.0	1.00
2	2 170305G1_3	12.5	3.43	2.95e4	2.95e4	12.5	0.0	1.00
3	3 170305G1_4	12.5	3.41	2.60e4	2.60e4	12.5	0.0	1.00
4	4 170305G1_5	12.5	3.41	3.17e4	3.17e4	12.5	0.0	1.00
5	5 170305G1_6	12.5	3.41	3.10e4	3.10e4	12.5	0.0	1.00
6	6 170305G1_7	12.5	3.41	2.37e4	2.37e4	12.5	0.0	1.00
7	7 170305G1_8	12.5	3.41	2.69e4	2.69e4	12.5	0.0	1.00
8	8 170305G1_9	12.5	3.41	2.39e4	2.39e4	12.5	0.0	1.00

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.04	1.48e4	1.48e4	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.03	1.61e4	1.61e4	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.03	1.44e4	1.44e4	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.02	1.74e4	1.74e4	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.02	1.72e4	1.72e4	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.03	1.09e4	1.09e4	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.02	1.48e4	1.48e4	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.02	1.29e4	1.29e4	12.5	0.0	1.00

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

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Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.32	7.77e3	7.77e3	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.31	8.14e3	8.14e3	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.30	6.38e3	6.38e3	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.30	8.23e3	8.23e3	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.30	7.88e3	7.88e3	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.30	4.25e3	4.25e3	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.30	7.29e3	7.29e3	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.30	6.59e3	6.59e3	12.5	0.0	1.00

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.64	8.87e3	8.87e3	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.64	8.20e3	8.20e3	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.63	7.15e3	7.15e3	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.63	8.16e3	8.16e3	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.63	8.62e3	8.62e3	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.63	3.54e3	3.54e3	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.63	7.60e3	7.60e3	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.63	8.52e3	8.52e3	12.5	0.0	1.00

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170305G1_2	12.5	4.70	6.73e3	6.73e3	12.5	0.0	1.00
2	2 170305G1_3	12.5	4.70	7.11e3	7.11e3	12.5	0.0	1.00
3	3 170305G1_4	12.5	4.69	5.19e3	5.19e3	12.5	0.0	1.00
4	4 170305G1_5	12.5	4.69	5.45e3	5.45e3	12.5	0.0	1.00
5	5 170305G1_6	12.5	4.69	6.31e3	6.31e3	12.5	0.0	1.00
6	6 170305G1_7	12.5	4.69	1.74e3	1.74e3	12.5	0.0	1.00
7	7 170305G1_8	12.5	4.69	5.13e3	5.13e3	12.5	0.0	1.00
8	8 170305G1_9	12.5	4.69	6.45e3	6.45e3	12.5	0.0	1.00

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Last Altered: Monday, March 06, 2017 09:13:54 Pacific Standard Time

Printed: Monday, March 06, 2017 09:14:12 Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Compound name: PFBS

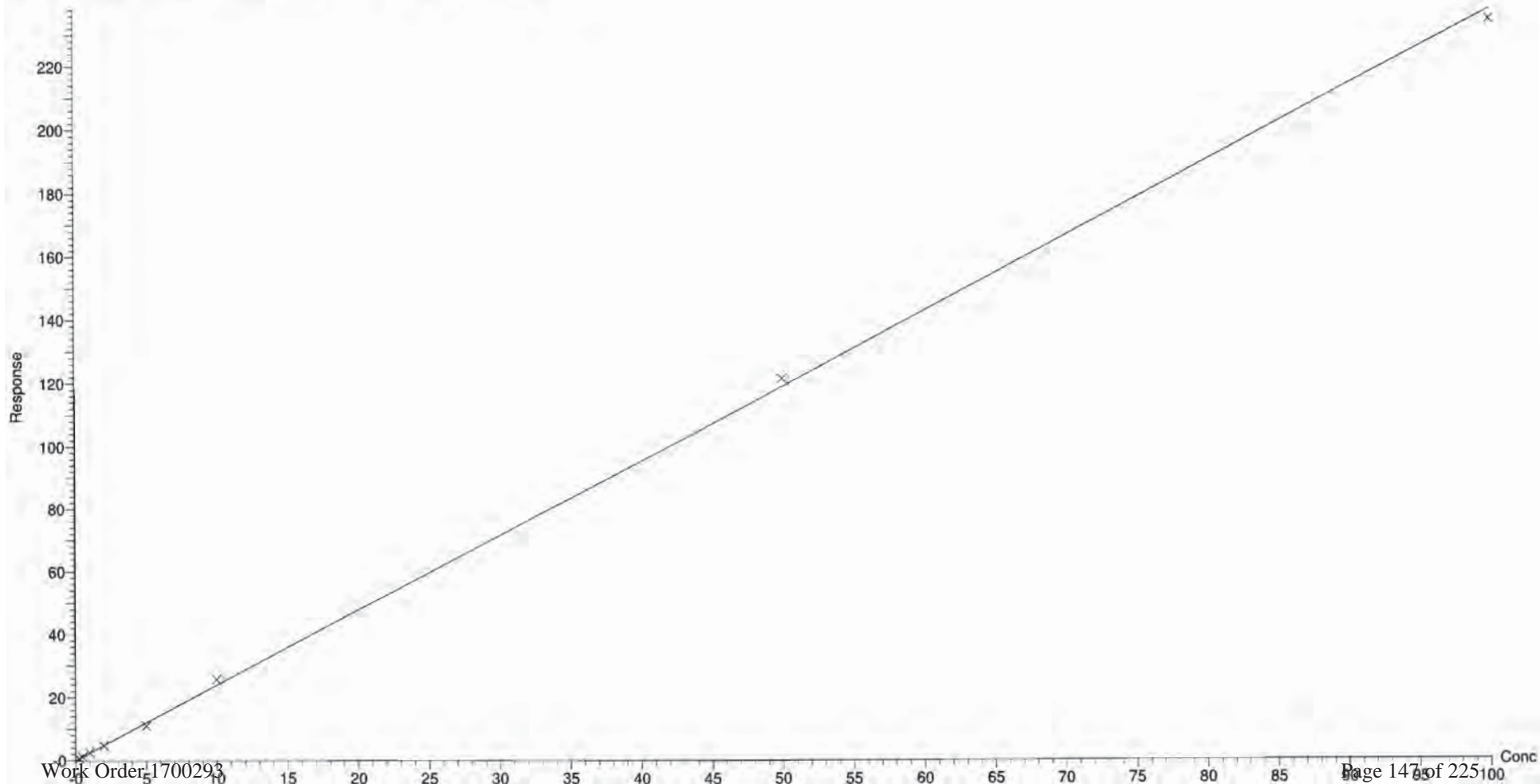
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4	170305G1_4	ST170305G1-3 PFC CS0 17C0503	05-Mar-17	13:11:49
5	170305G1_5	ST170305G1-4 PFC CS1 17C0504	05-Mar-17	13:24:21
6	170305G1_6	ST170305G1-5 PFC CS2 17C0505	05-Mar-17	13:36:55
7	170305G1_7	ST170305G1-6 PFC CS3 17C0506	05-Mar-17	13:49:29
8	170305G1_8	ST170305G1-7 PFC CS4 17C0507	05-Mar-17	14:02:00
9	170305G1_9	ST170305G1-8 PFC CS5 17C0508	05-Mar-17	14:14:34
10	170305G1_10	IPA	05-Mar-17	14:27:08
11	170305G1_11	SS170305G1-1 PFC SSS 17C0509	05-Mar-17	14:39:40
12	170305G1_12	IPA	05-Mar-17	14:52:09
13	170305G1_13	B7C0012-BS1 OPR 0.125	05-Mar-17	15:04:45
14	170305G1_14	B7C0010-BS1 OPR 0.125	05-Mar-17	15:17:15
15	170305G1_15	IPA	05-Mar-17	15:29:48
16	170305G1_16	B7C0012-BLK1 Method Blank 0.125	05-Mar-17	15:42:23
17	170305G1_17	B7C0010-BLK1 Method Blank 0.125	05-Mar-17	15:54:54
18	170305G1_18	1700268-02RE1 WI-CV-GW05M-0217 0.125	05-Mar-17	16:07:28
19	170305G1_19	1700268-04RE1 WI-CV-GW11M-0217 0.125	05-Mar-17	16:20:00
20	170305G1_20	1700280-01 WI-CV-GW03M-0217 0.125	05-Mar-17	16:32:34
21	170305G1_21	1700280-02 WI-CV-GW03D-0217 0.125	05-Mar-17	16:45:07
22	170305G1_22	1700280-03 WI-CV-EB07-022717 0.125	05-Mar-17	16:57:36
23	170305G1_23	1700280-04 WI-CV-GW04M-0217 0.125	05-Mar-17	17:10:09
24	170305G1_24	1700280-05 WI-CV-GW01M-0217 0.125	05-Mar-17	17:22:42
25	170305G1_25	1700280-06 WI-CV-EB08-022817 0.125	05-Mar-17	17:35:16
26	170305G1_26	1700280-07 WI-CV-GW01D-0217 0.125	05-Mar-17	17:47:49
27	170305G1_27	1700277-01 MILK-022717 0.005	05-Mar-17	18:00:22
28	170305G1_28	IPA	05-Mar-17	18:12:56
29	170305G1_29	ST170305G1-9 PFC CS3 17C0506	05-Mar-17	18:25:28
30	170305G1_30	IPA	05-Mar-17	18:38:01

Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
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Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:19:21

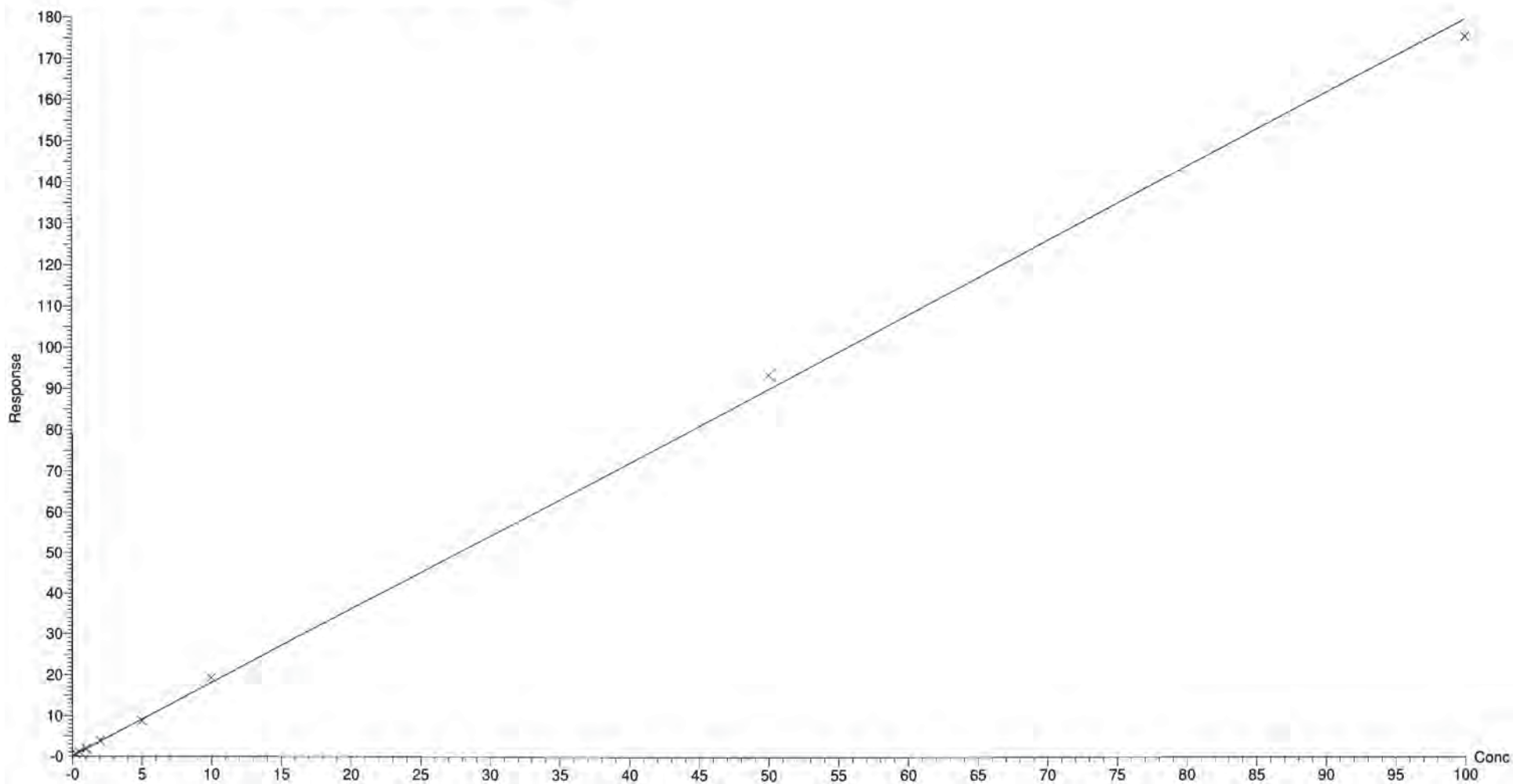
Compound name: PFBS
Correlation coefficient: $r = 0.999596$, $r^2 = 0.999192$
Calibration curve: $2.38097 * x + 0.0682571$
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

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Compound name: PFHpA
Correlation coefficient: $r = 0.999429$, $r^2 = 0.998857$
Calibration curve: $1.79957 * x + 0.123896$
Response type: Internal Std (Ref 8), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time

Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

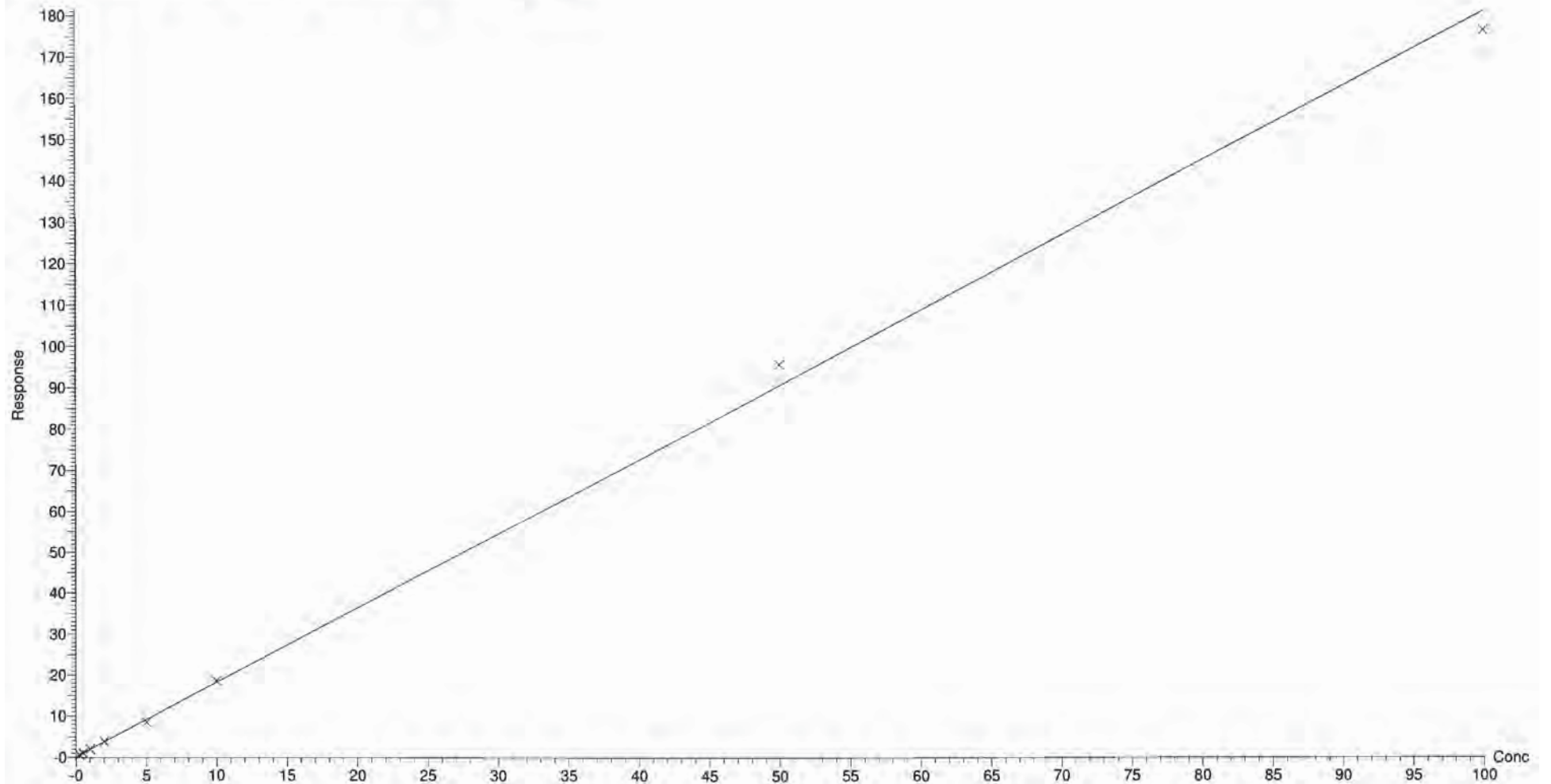
Compound name: PFHxS

Correlation coefficient: $r = 0.999200$, $r^2 = 0.998401$

Calibration curve: $1.81334 * x + 0.103191$

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

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



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time

Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

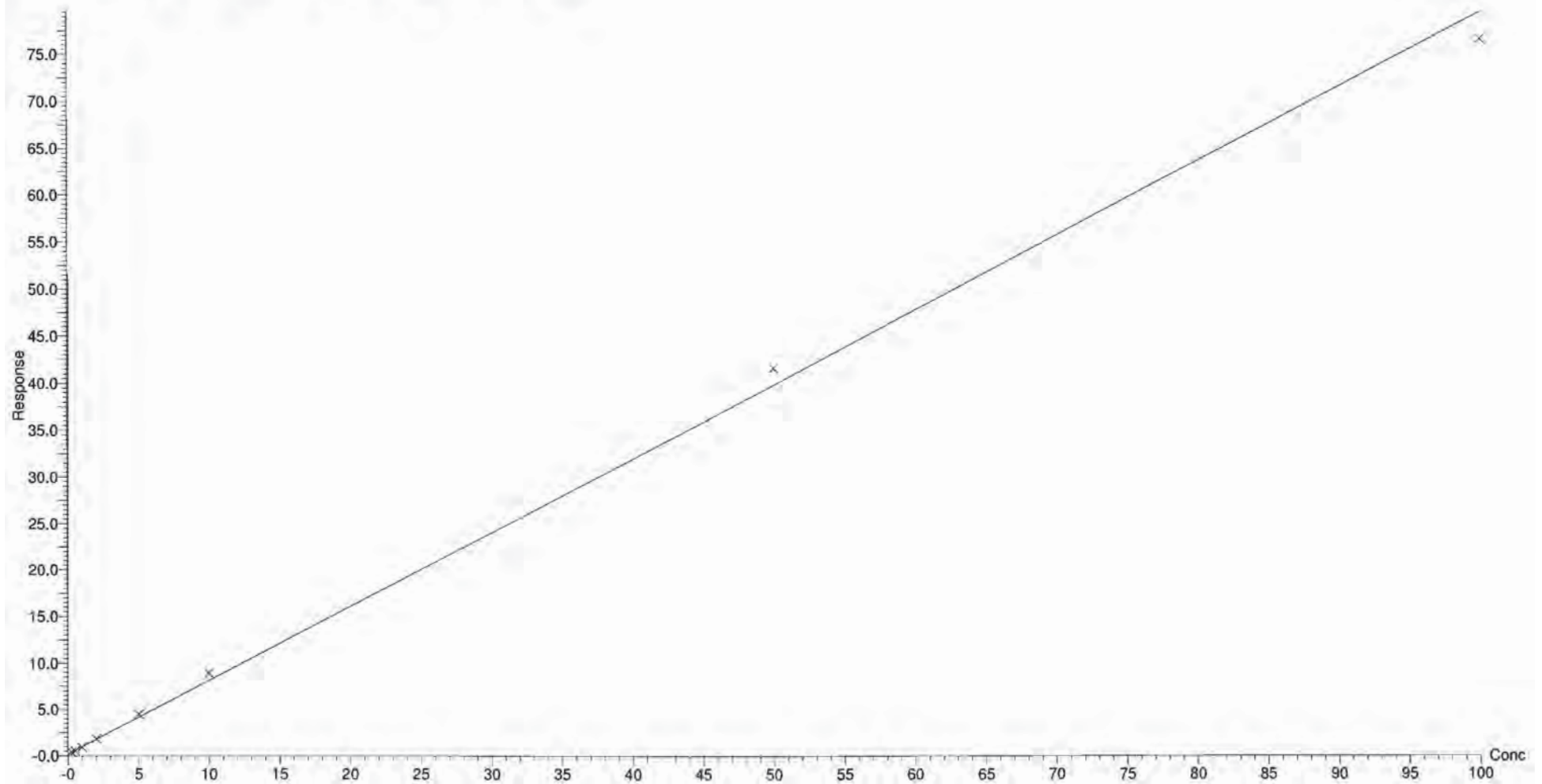
Compound name: PFOA

Correlation coefficient: $r = 0.998804$, $r^2 = 0.997609$

Calibration curve: $0.794457 * x + 0.179058$

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

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



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time

Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

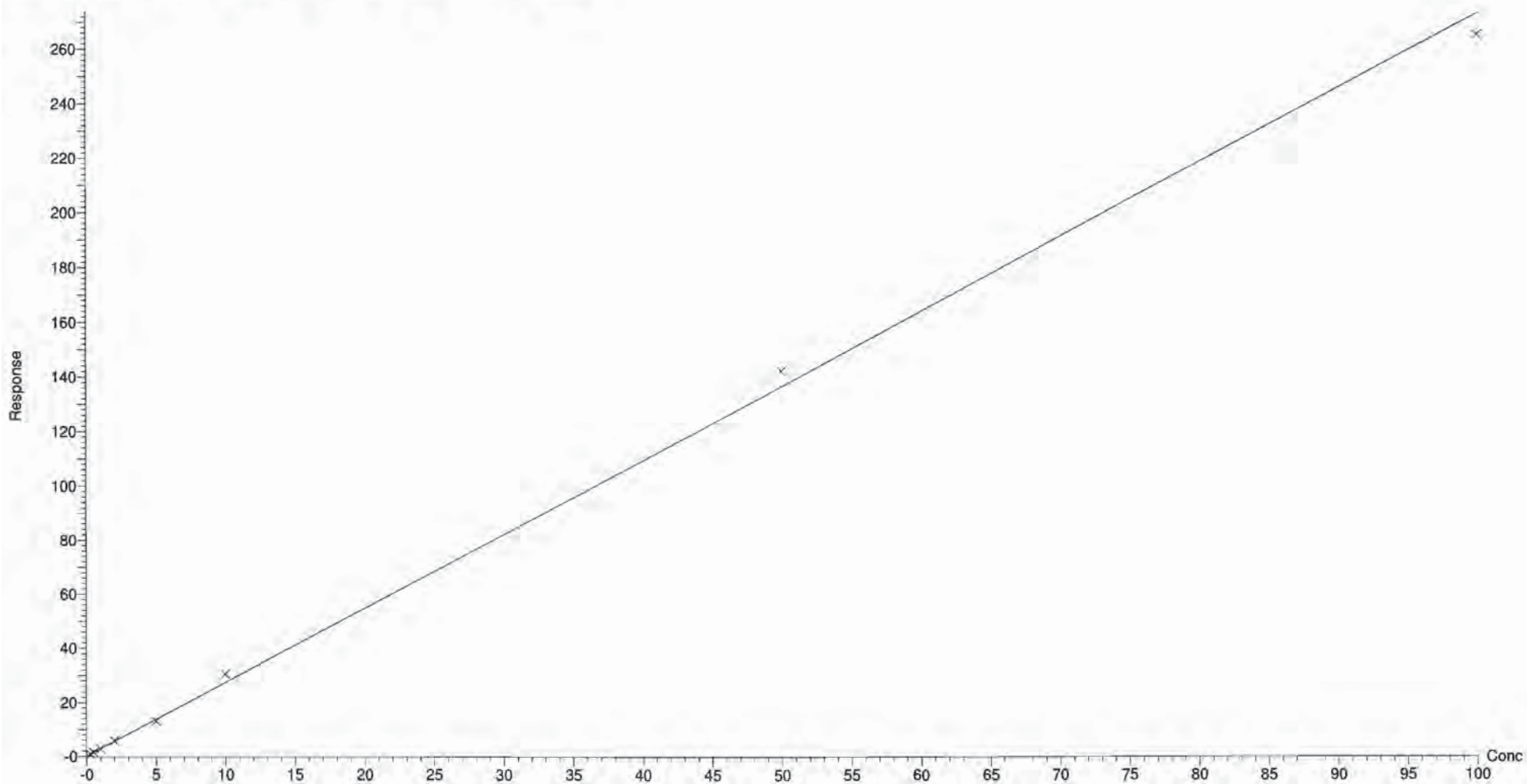
Compound name: PFNA

Correlation coefficient: $r = 0.999011$, $r^2 = 0.998022$

Calibration curve: $2.73664 * x + 0.0966541$

Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)

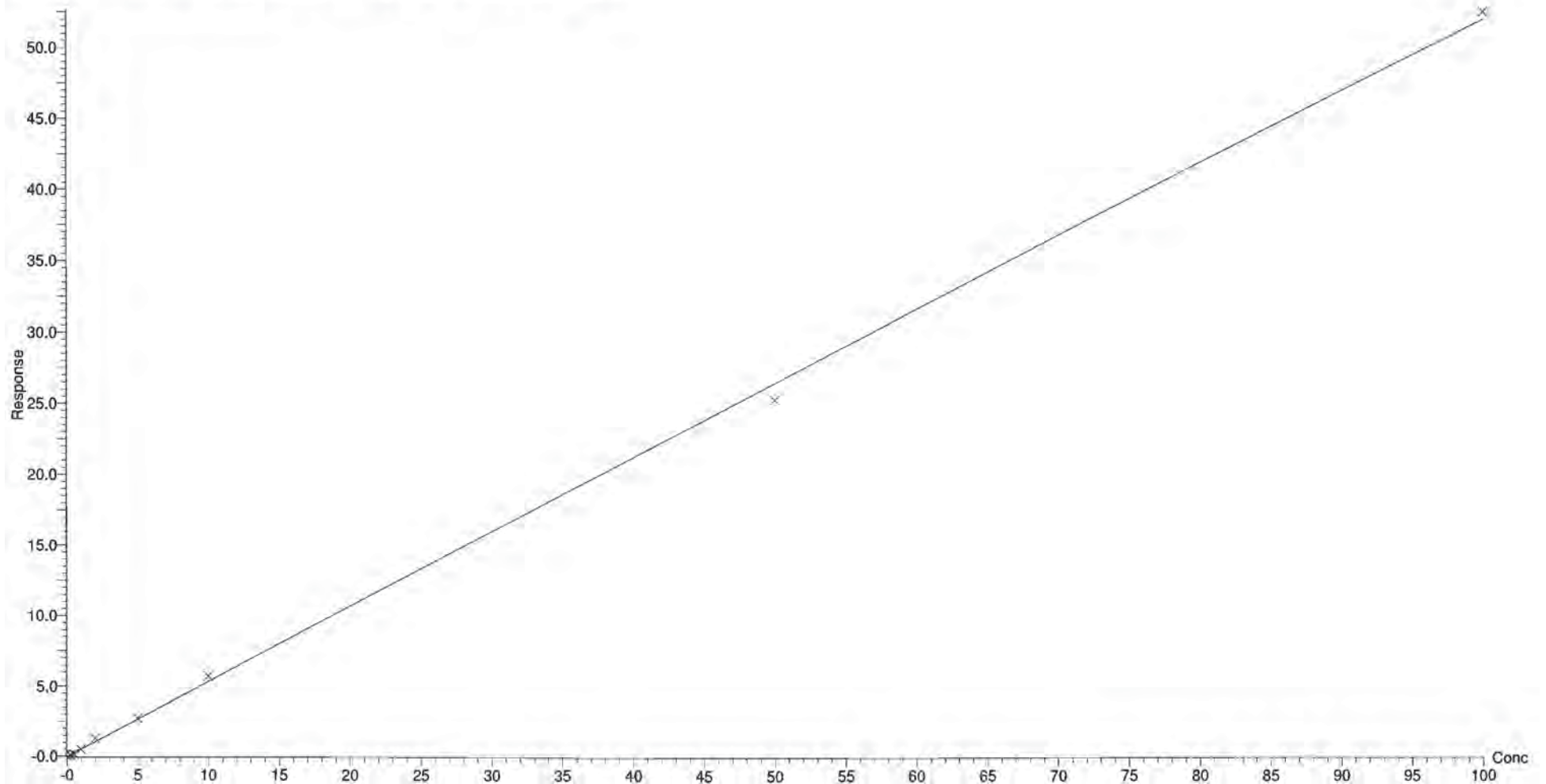
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170305G1\170305G1-CRV.qld

Last Altered: Monday, March 06, 2017 08:19:21 Pacific Standard Time
Printed: Monday, March 06, 2017 08:27:41 Pacific Standard Time

Compound name: PFOS
Coefficient of Determination: $R^2 = 0.997963$
Calibration curve: $-0.000185224 * x^2 + 0.54028 * x + -0.0525057$
Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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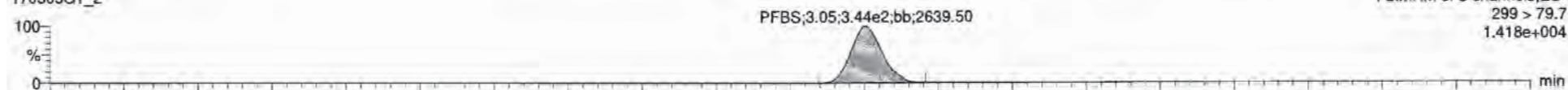
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

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Calibration: 06 Mar 2017 08:36:20

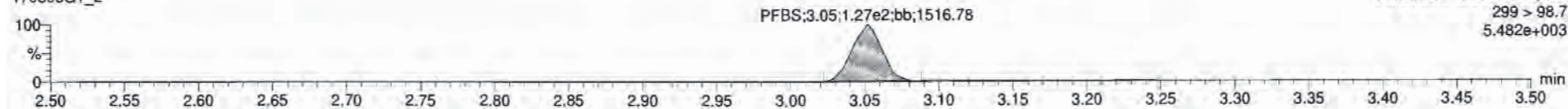
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PFBS

170305G1_2

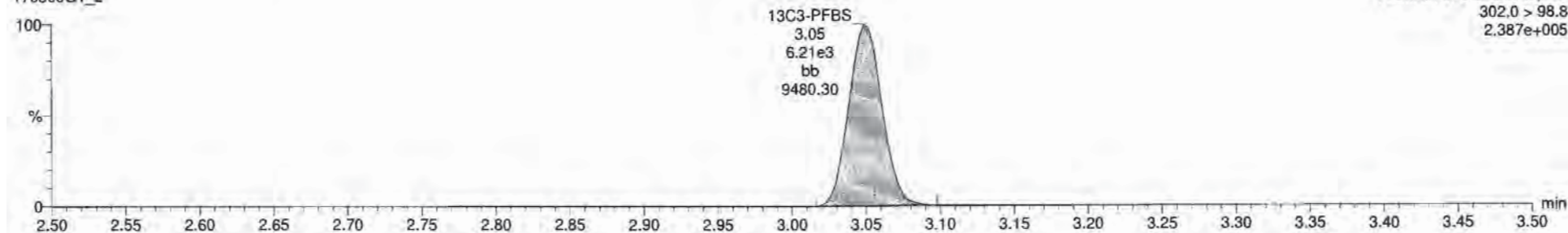


170305G1_2



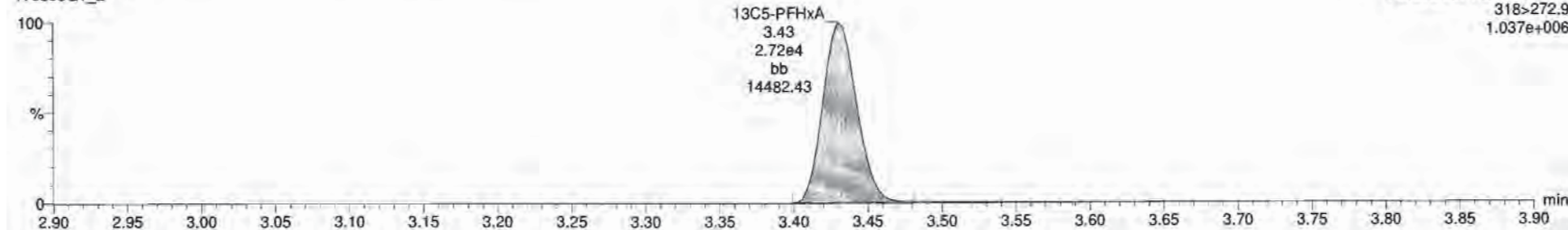
13C3-PFBS

170305G1_2



13C5-PFHxA

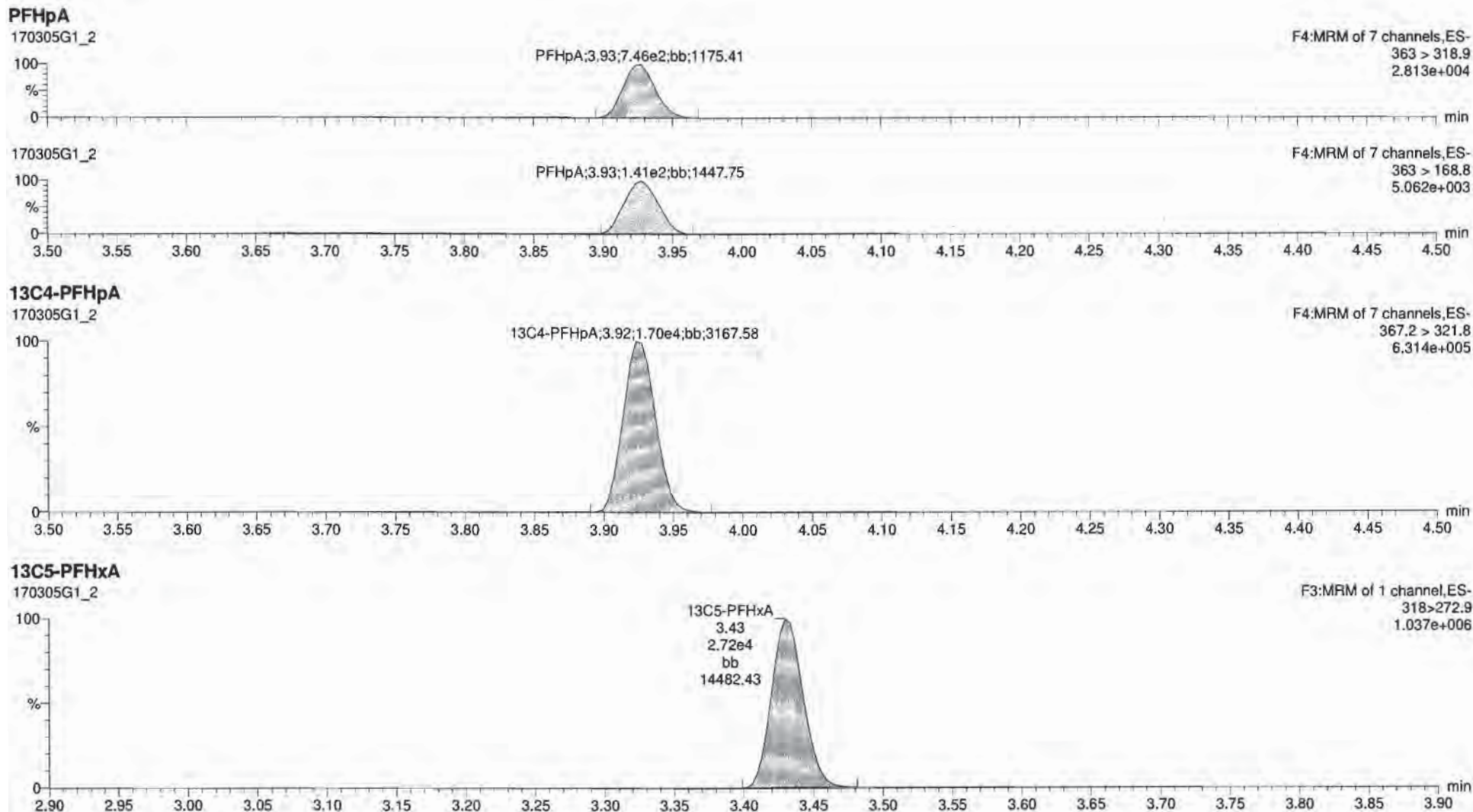
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

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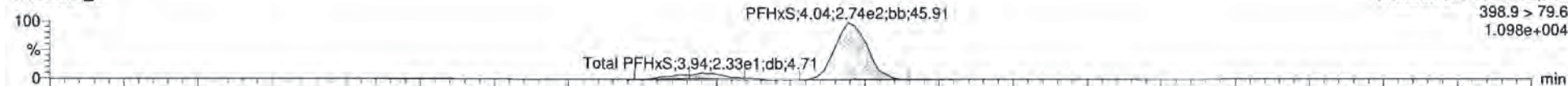
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

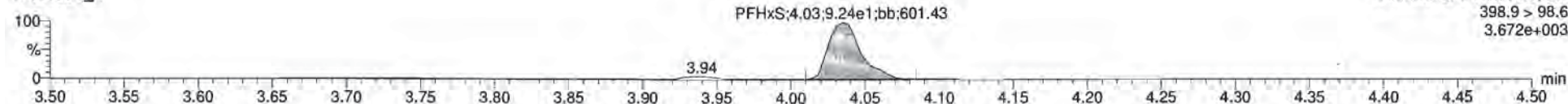
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Total PFHxS

170305G1_2

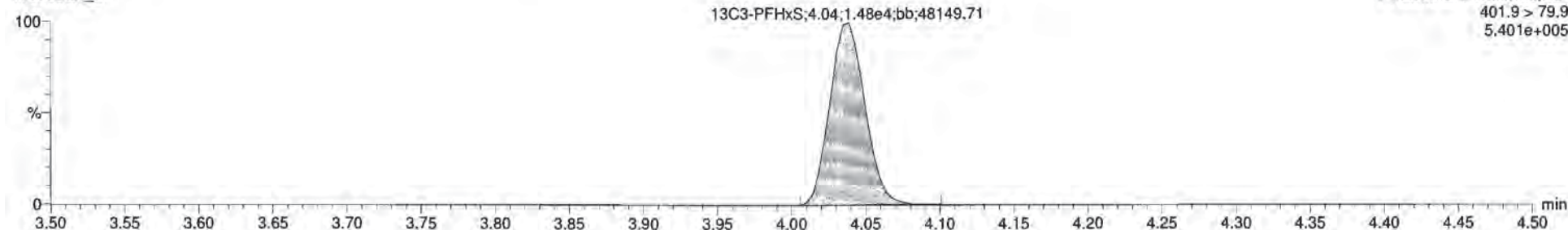


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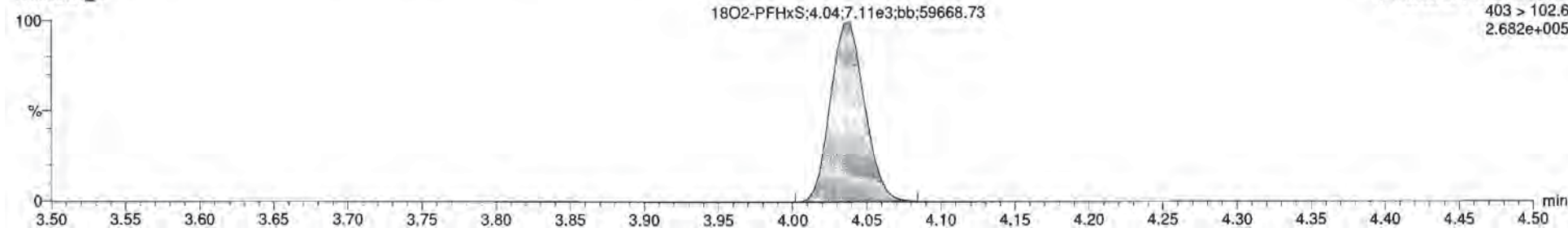
13C3-PFHxS

170305G1_2



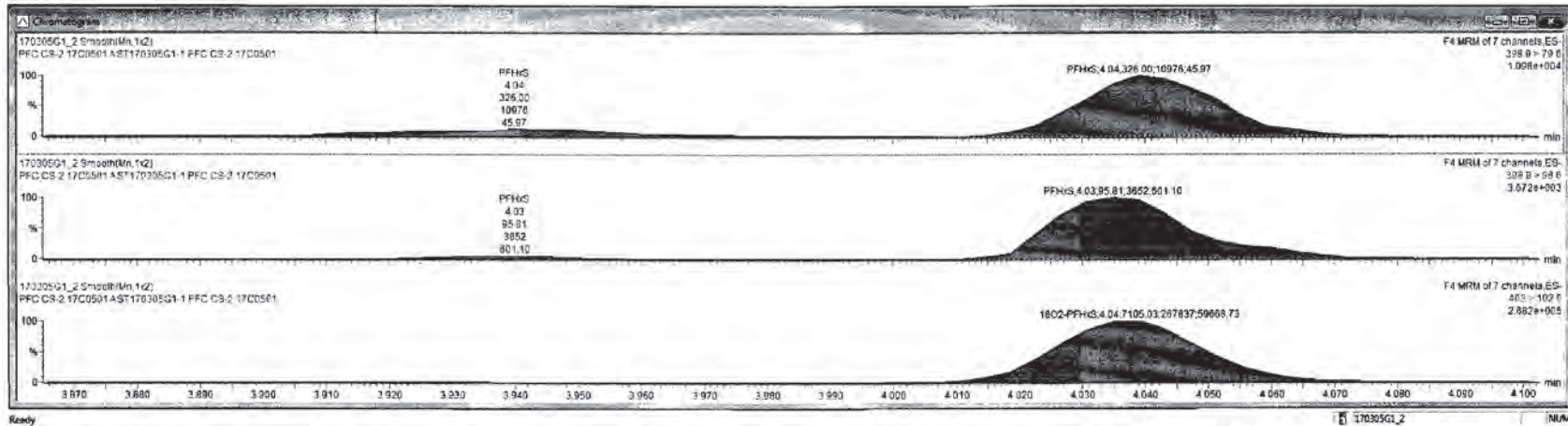
18O2-PFHxS

170305G1_2



TargetLine_1700501_2
 File Edit View Display Processing Window Help
 170305G1_2 - ST170305G1-1 PFC CS-2 17C0501 PFC CS-2 17C0501 A

#	Name	Trace	Area	ROP	WVAL	Pred.RT	RT	Comp.	%NCL	%Rec	DL
1	PFBS	299 > 79.7	3.44e2		1.800	3.95	3.95	0.283	NO	165.1	
2	PFHSA	363 > 318.8	7.46e2		1.800	3.92	3.90	0.236	NO	94.2	
3	PFHxS	338.9 > 79.8	3.26e3		1.800	4.04	4.04	0.259	NO	163.8	
4	PFOA	413 > 368.7	1.04e3		1.800	4.32	4.32	0.241	NO	96.3	
5	PFNA	463 > 418.8	5.06e2		1.800	4.64	4.65	0.241	NO	96.5	
6	PFOS	499 > 79.9	3.72e1		1.800	4.71	4.62	0.234	NO	93.7	0.1069576
7	13C3-PFBS	302.0 > 90.6	6.21e3	0.410	1.800	3.04	3.05	12.8	NO	102.4	0.0035537
8	13C4-PFHSA	367.2 > 321.8	1.79e4	1.10	1.800	3.92	3.92	13.1	NO	105.0	0.0125143
9	18O2-PFHxS	403 > 102.6	7.11e3	0.434	1.800	4.04	4.04	13.8	NO	110.7	0.0005992
10	13C2-PFOA	414.8 > 368.7	3.51e4	4.61	1.800	4.32	4.32	12.2	NO	98.0	0.0043166
11	13C5-PFNA	465.2 > 422.9	6.36e3	0.967	1.800	4.64	4.64	13.6	NO	109.7	0.0016950
12	13C6-PFOS	507.0 > 79.9	6.28e3	0.956	1.800	4.70	4.70	12.2	NO	97.5	0.0431338
13	13C3-PFHSA	318 > 272.9	2.72e4	1.60	1.800	3.29	3.43	12.5	NO	100.0	0.0521576
14	13C3-PFHxS	401.8 > 79.8	1.45e4	1.50	1.800	3.94	4.04	12.5	NO	100.0	0.0006496
15	13C3-PFOA	421.3 > 376	7.77e3	1.50	1.800	4.22	4.32	12.5	NO	100.0	0.3062119
16	13C5-PFNA	472.2 > 426.9	6.87e3	1.50	1.800	4.56	4.64	12.5	NO	100.0	0.0262966
17	13C4-PFOS	503.0 > 79.9	6.73e3	1.50	1.800	4.67	4.70	12.5	NO	100.0	0.0015837
18	Total PFBS	299 > 79.7	3.44e2		1.800	3.11		0.283	NO		
19	Total PFHxS	338.9 > 79.6	3.63e2		1.800	4.09		0.259	NO		
20	Total PFOA	413 > 368.7	1.10e3		1.800	4.39		0.241	NO		
21	Total PFOS	499 > 79.9	3.72e1		1.800	4.67		0.234	NO		0.1069576



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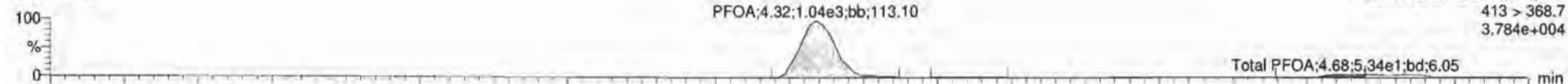
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

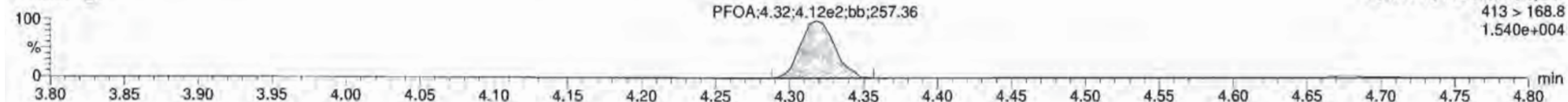
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Total PFOA

170305G1_2

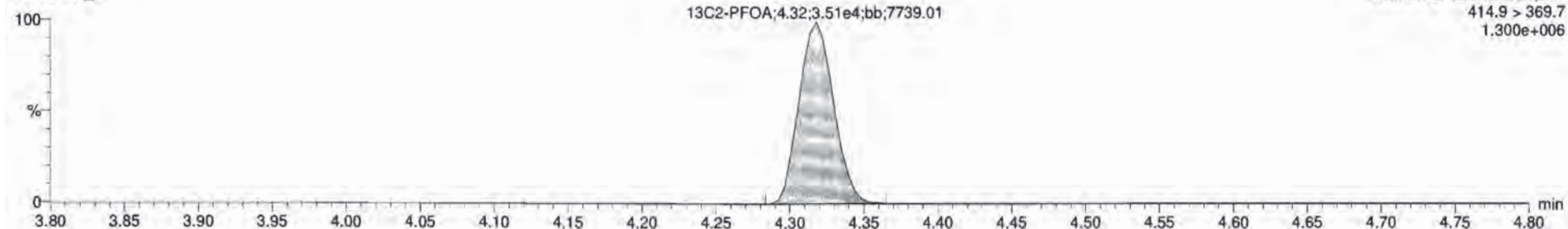


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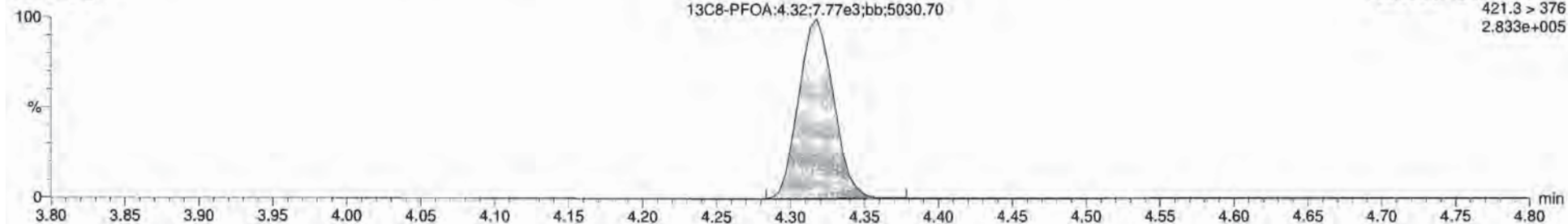
13C2-PFOA

170305G1_2



13C8-PFOA

170305G1_2

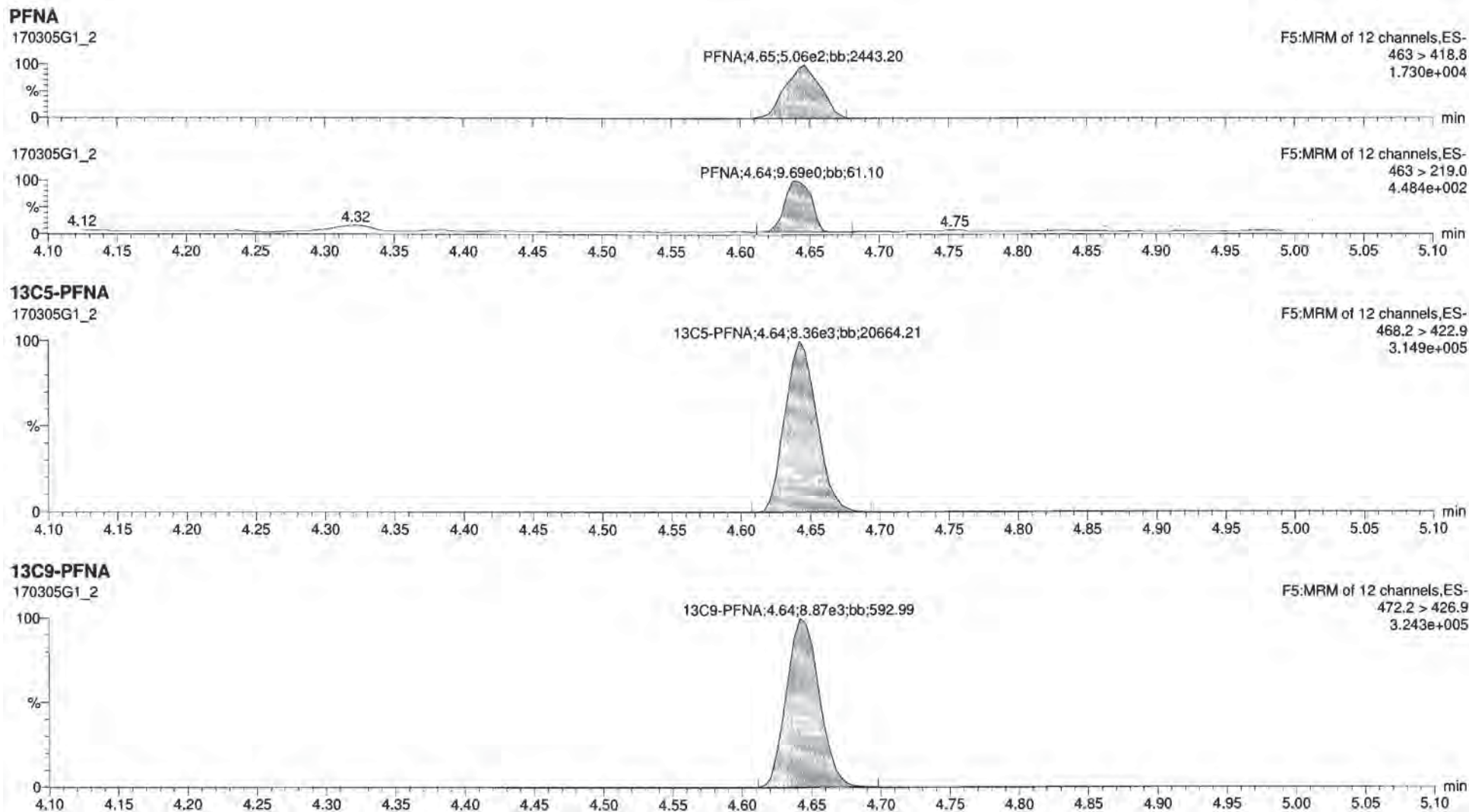


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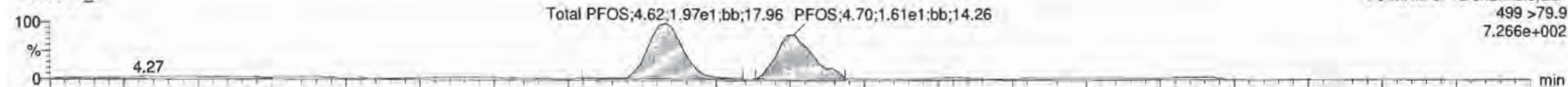
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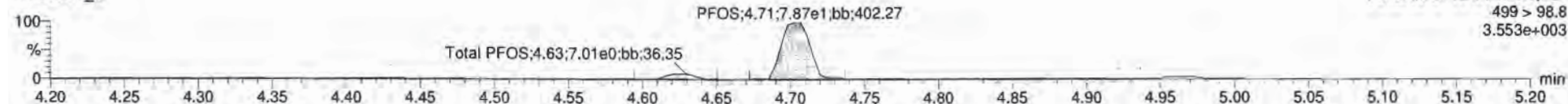
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Total PFOS

170305G1_2

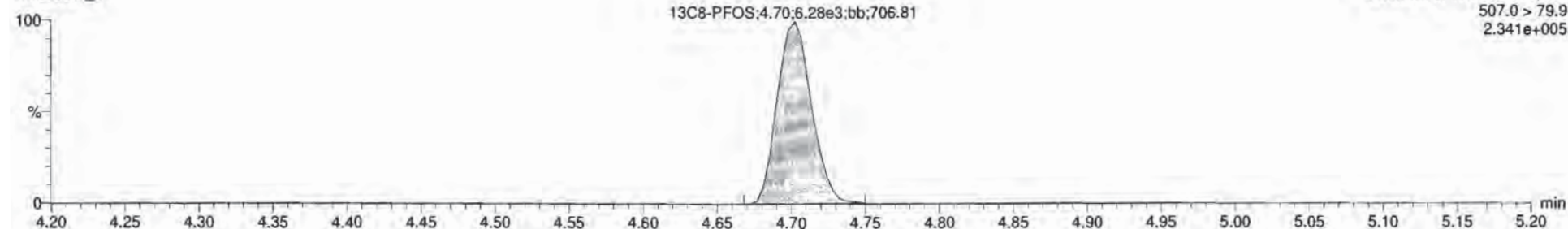


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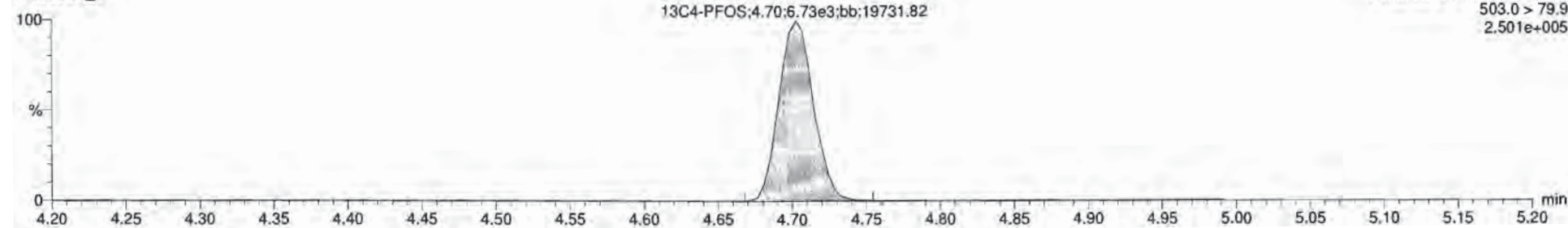
13C8-PFOS

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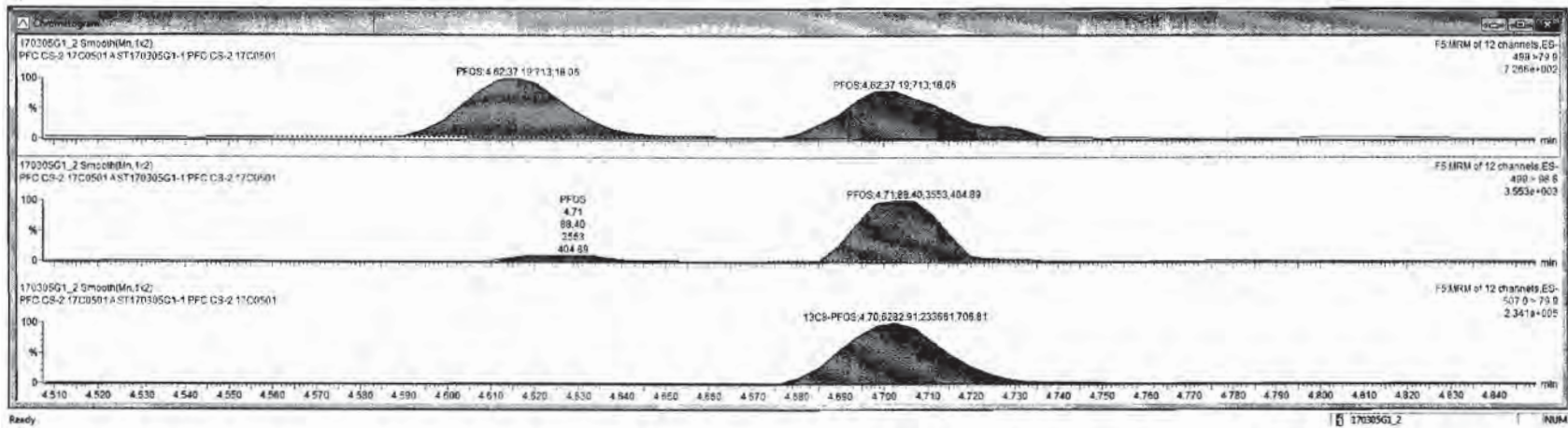
13C4-PFOS

170305G1_2





Name	Trace	Area	RRP	VMVel	PrebRT	RT	Conc.	MOL	%Rec	DL	
1	PFBS	299 > 79.7	3.44e2	1.000	3.95	3.95	0.263	NO	165.1		
2	PFPhA	363 > 318.8	7.46e2	1.000	3.92	3.92	0.235	NO	84.2		
3	PFPhS	388.8 > 79.6	3.26e2	1.000	4.94	4.94	0.256	NO	103.8		
4	PFDA	413 > 368.7	1.04e3	1.000	4.32	4.32	0.241	NO	96.3		
5	PFNA	463 > 418.8	5.96e2	1.000	4.64	4.65	0.241	NO	96.5		
6	PFOS	499 > 79.9	3.72e1	1.000	4.71	4.62	0.234	NO	93.7	0.1069576	
7	13C3-PFBS	302.6 > 98.8	6.21e3	0.410	1.000	3.94	3.95	12.8	NO	192.4	0.0035537
8	13C4-PFPhA	367.2 > 321.8	1.70e4	1.110	1.000	3.92	3.92	13.1	NO	193.0	0.0105143
9	18O2-PFPhS	403 > 162.6	7.11e3	0.434	1.000	4.94	4.94	13.0	NO	110.7	0.0005902
10	13C2-PFDA	414.9 > 369.7	3.51e4	4.61	1.000	4.32	4.32	12.2	NO	90.0	0.0043106
11	13C5-PFNA	468.2 > 422.0	8.36e3	0.967	1.000	4.64	4.64	13.6	NO	100.7	0.0016950
12	13C8-PFOS	507.0 > 79.9	6.28e3	0.956	1.000	4.70	4.70	12.2	NO	97.5	0.0431336
13	13C3-PFPhA	318 > 272.9	2.72e4	1.00	1.000	3.29	3.43	12.5	NO	100.0	0.0021578
14	13C3-PFPhS	401.9 > 79.9	1.48e4	1.00	1.000	3.94	4.04	12.5	NO	100.0	0.0006490
15	13C3-PFDA	421.3 > 376	7.77e3	1.00	1.000	4.22	4.32	12.5	NO	100.0	0.0052119
16	13C3-PFNA	472.2 > 426.5	8.87e3	1.00	1.000	4.56	4.64	12.5	NO	100.0	0.0026968
17	13C4-PFOS	503.0 > 79.9	6.73e3	1.00	1.000	4.67	4.70	12.5	NO	100.0	0.0015837
18	Total PFBS	299 > 79.7	3.44e2		1.000	3.11		0.263	NO		
19	Total PFPhS	388.8 > 79.6	3.63e2		1.000	4.09		0.256	NO		
20	Total PFDA	413 > 368.7	1.10e3		1.000	4.39		0.241	NO		
21	Total PFOS	499 > 79.9	3.72e1		1.000	4.67		0.234	NO		0.1069576

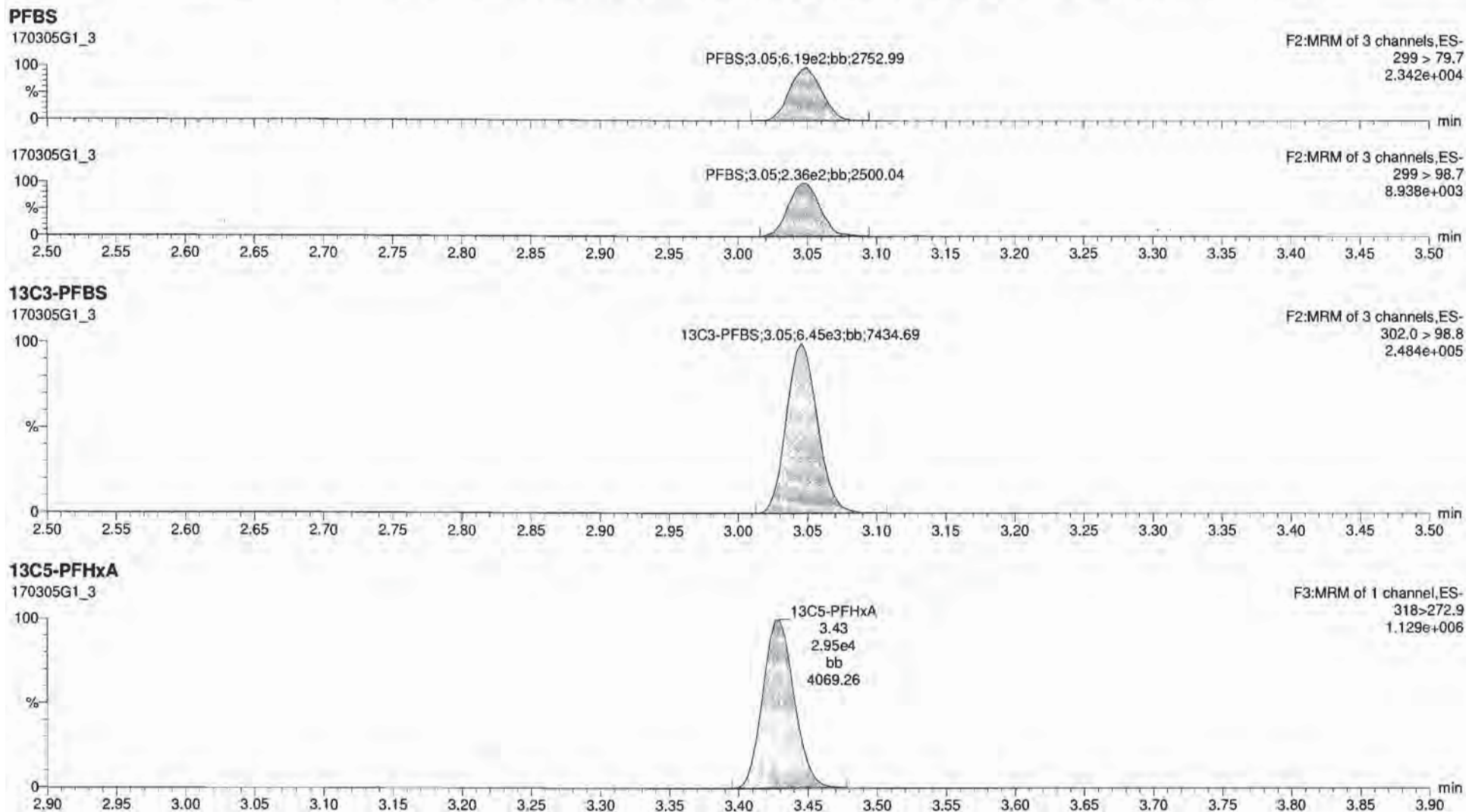


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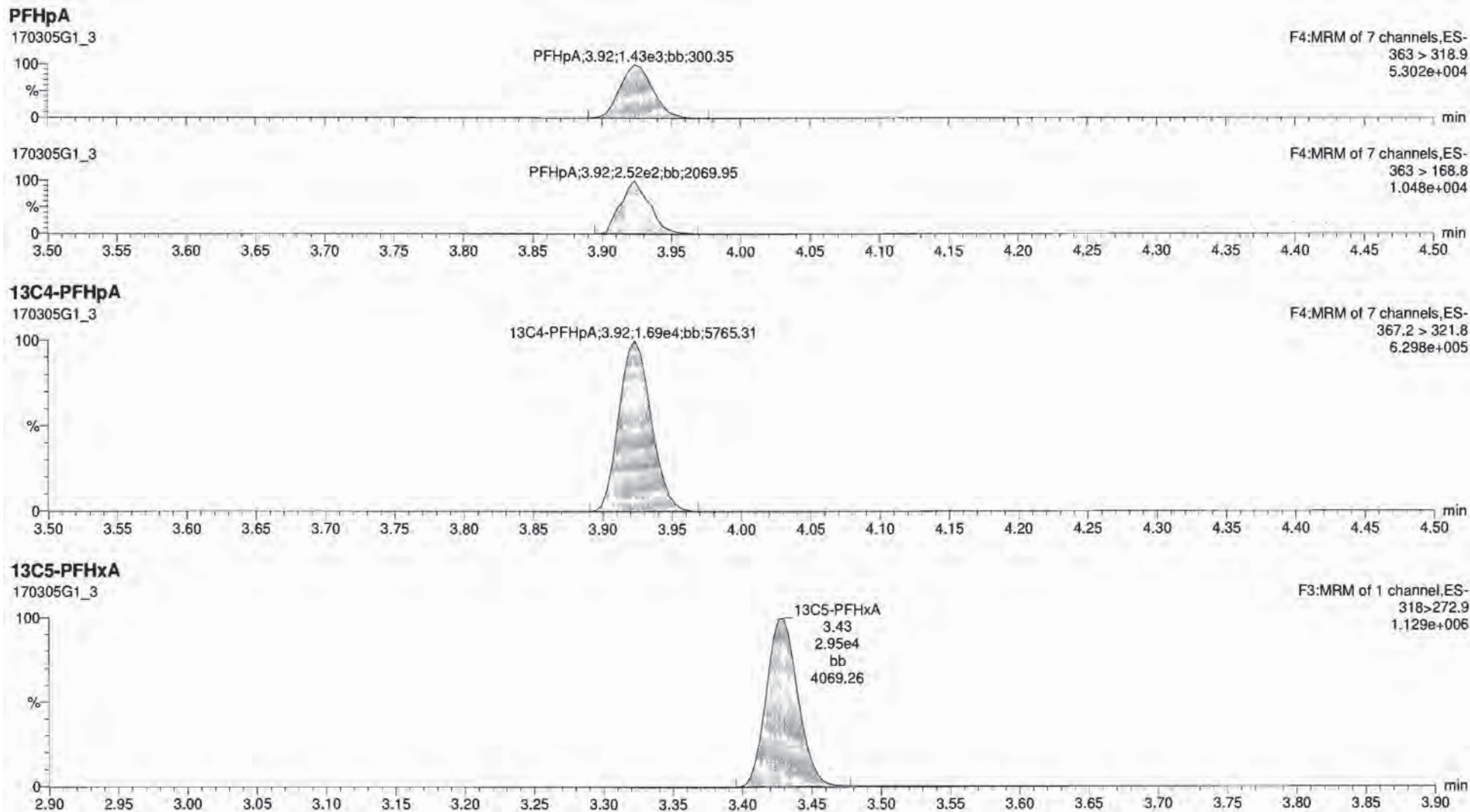


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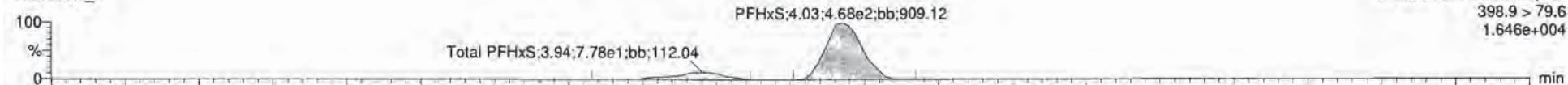
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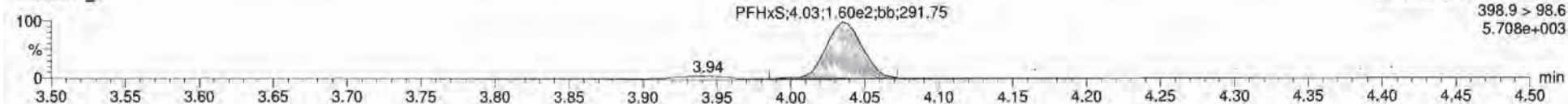
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Total PFHxS

170305G1_3

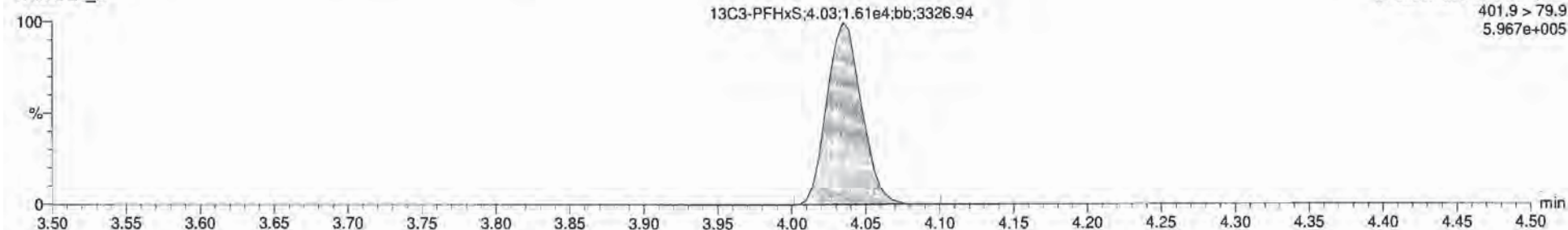


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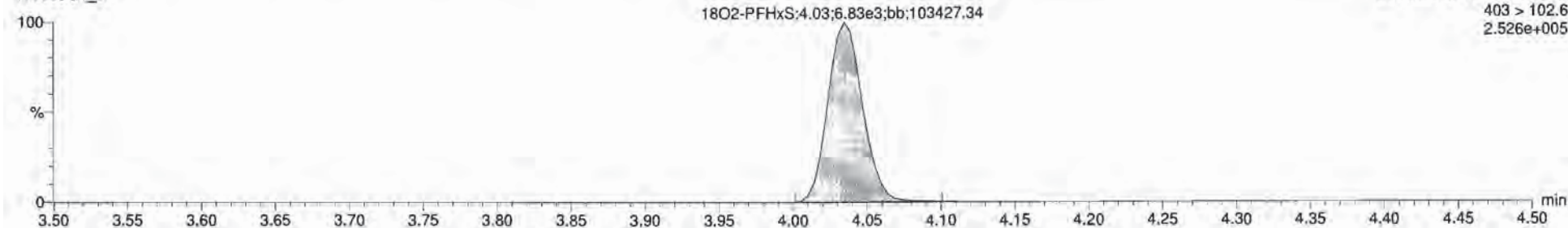
13C3-PFHxS

170305G1_3



18O2-PFHxS

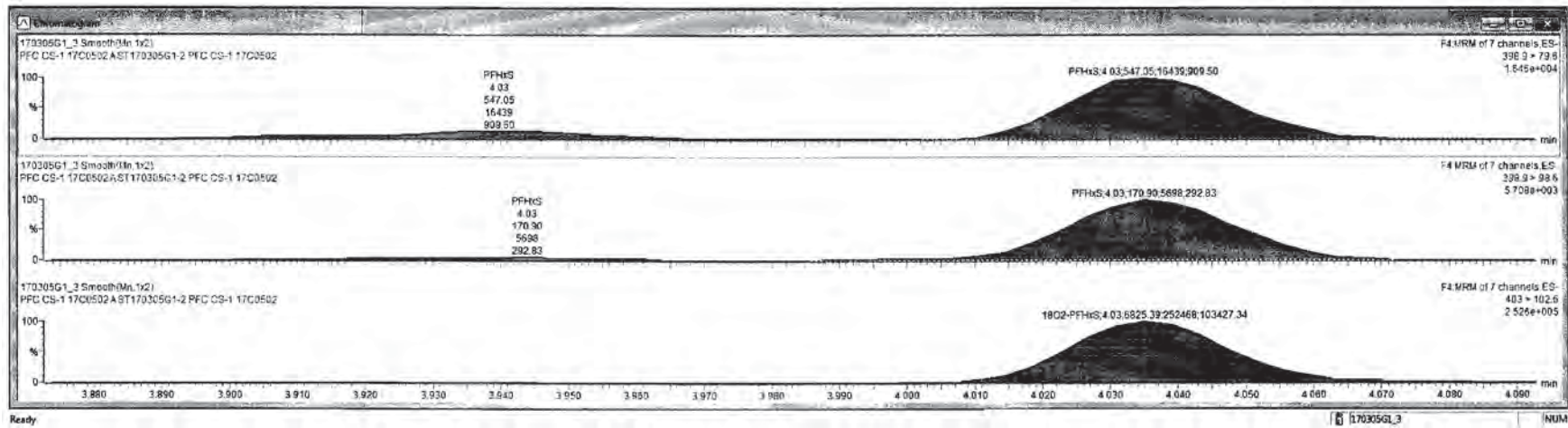
170305G1_3





170305G1_3 - ST170305G1.2.PFC.CS.1.17C0502 PFC.CS.1.17C0502.A

Name	Trace	Area	RPF	WVVol	Prod.RT	RT	Conc.	>IDL	%Rec	DL
1	PFBS	299 > 79.7	6.19e2		1.000	3.65	3.95	0.475	NO	95.0
2	PFHpA	363 > 318.9	1.43e3		1.000	3.92	3.92	0.518	NO	103.7
3	PFHxS	398.9 > 79.8	5.47e2		1.000	4.03	4.03	0.496	NO	99.1
4	PFDA	413 > 365.7	1.52e3		1.000	4.31	4.31	0.452	NO	90.4
5	PFNA	463 > 418.6	8.61e2		1.000	4.64	4.64	0.489	NO	97.9
6	PFOS	499 > 79.9	7.39e1		1.000	4.71	4.71	0.358	NO	71.5
7	13C3-PFBS	302.0 > 68.8	6.45e3	0.410	1.000	3.04	3.05	12.2	NO	87.5
8	13C4-PFHpA	367.2 > 321.8	1.89e4	1.10	1.000	3.91	3.92	11.9	NO	95.5
9	18O2-PFHxS	403 > 102.6	6.83e3	0.434	1.000	4.03	4.03	12.2	NO	97.4
10	13C2-PFDA	414.9 > 369.7	3.52e4	4.61	1.000	4.31	4.31	11.6	NO	94.2
11	13C3-PFNA	468.2 > 422.8	7.87e3	0.887	1.000	4.64	4.64	13.5	NO	107.9
12	13C8-PFOS	507.0 > 79.8	6.57e3	0.956	1.000	4.70	4.70	12.1	NO	96.4
13	13C3-PFHpA	318 > 272.9	2.95e4	1.07	1.000	3.29	3.43	12.5	NO	108.0
14	13C3-PFHxS	401.9 > 79.9	1.61e4	1.07	1.000	3.94	4.03	12.5	NO	106.0
15	13C3-PFDA	421.3 > 376	5.14e3	1.00	1.000	4.22	4.31	12.5	NO	100.0
16	13C9-PFNA	472.2 > 426.8	8.29e3	1.00	1.000	4.58	4.64	12.5	NO	100.0
17	13C4-PFOS	563.0 > 79.9	7.11e3	1.00	1.000	4.67	4.70	12.5	NO	100.0
18	Total PFBS	299 > 79.7	6.19e2		1.000	3.11		0.475	NO	
19	Total PFHxS	398.9 > 79.8	6.25e2		1.000	4.69		0.517	NO	
20	Total PFDA	413 > 365.7	1.56e3		1.000	4.39		0.452	NO	
21	Total PFOS	499 > 79.9	9.52e1		1.000	4.67		0.530	NO	0.1653528



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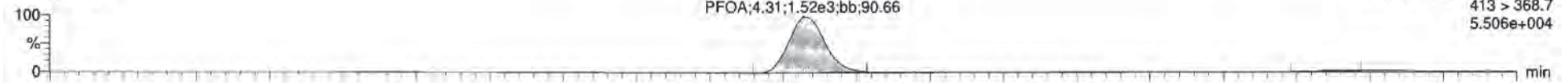
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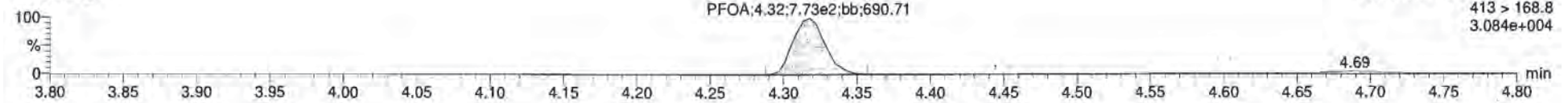
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Total PFOA

170305G1_3

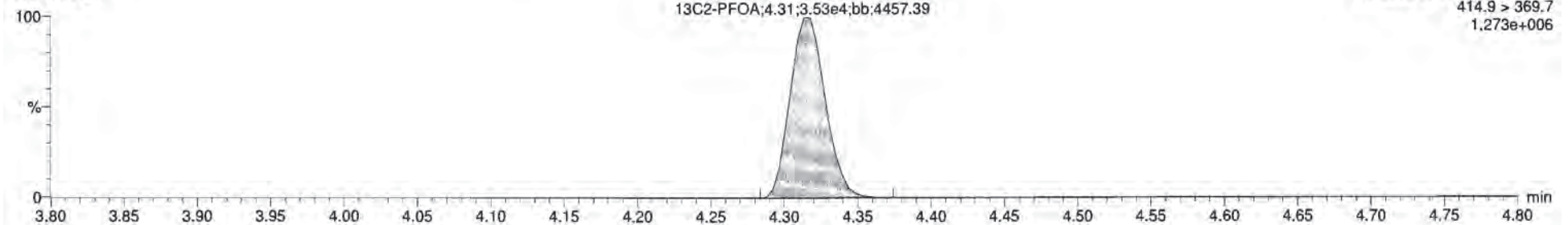


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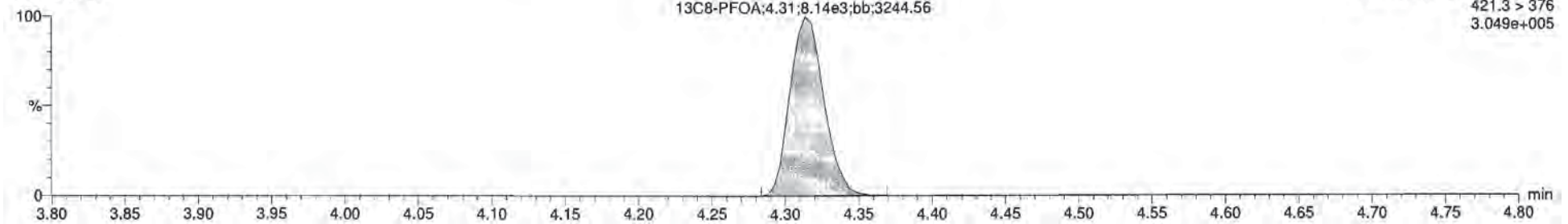
13C2-PFOA

170305G1_3



13C8-PFOA

170305G1_3



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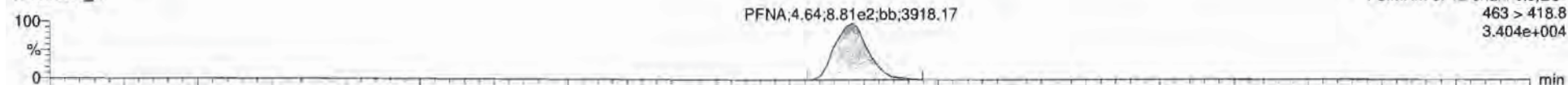
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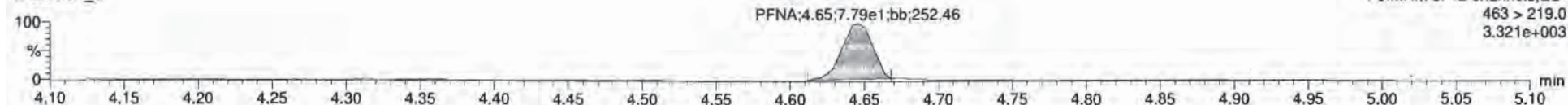
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PFNA

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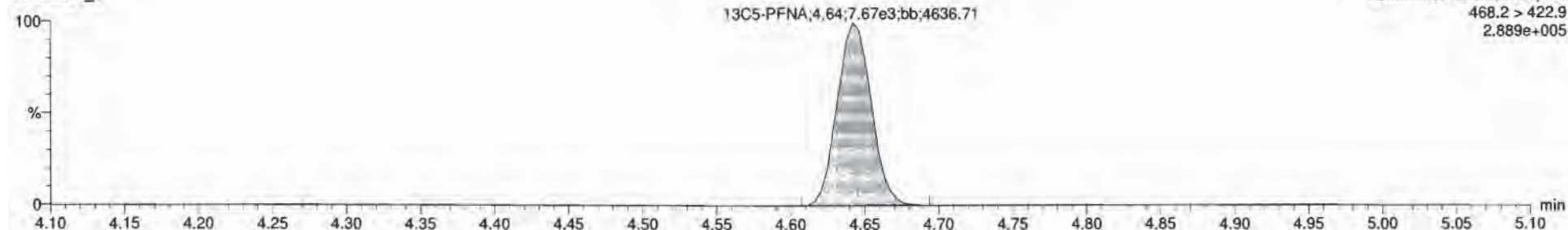


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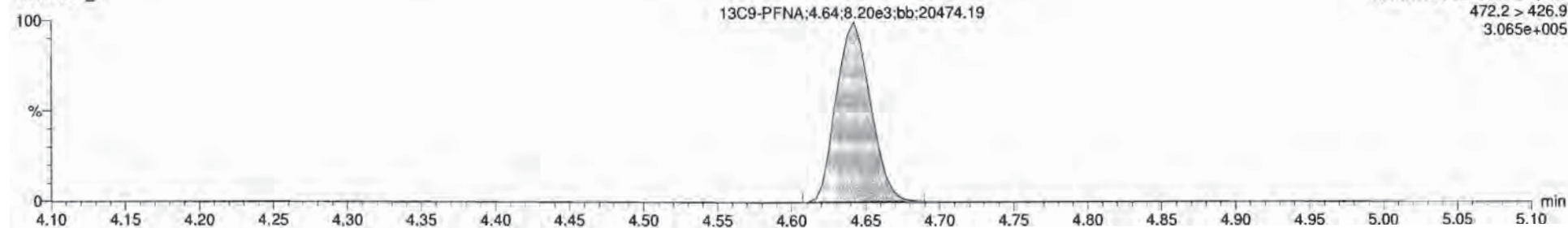
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13C9-PFNA

170305G1_3



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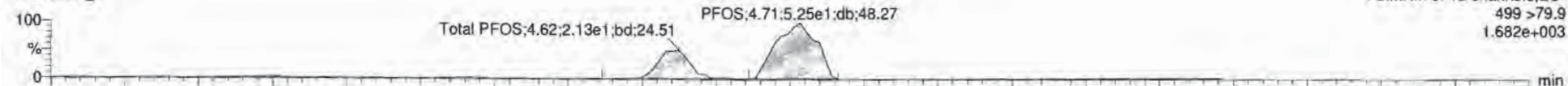
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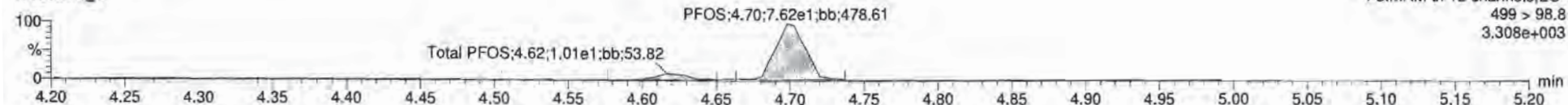
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Total PFOS

170305G1_3

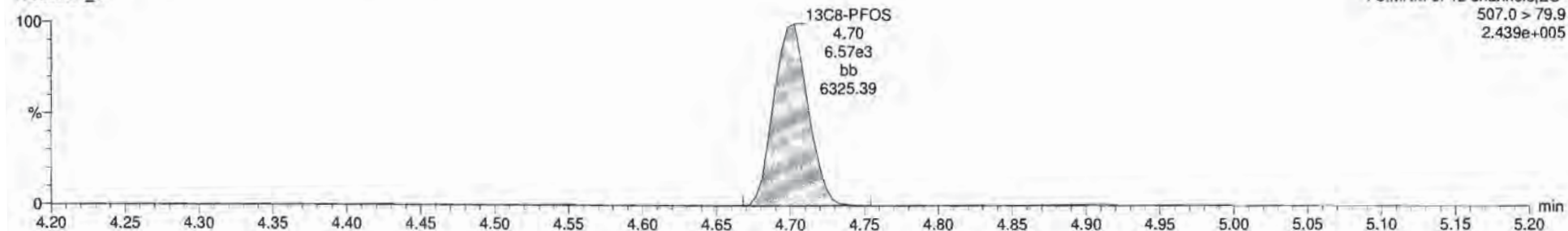


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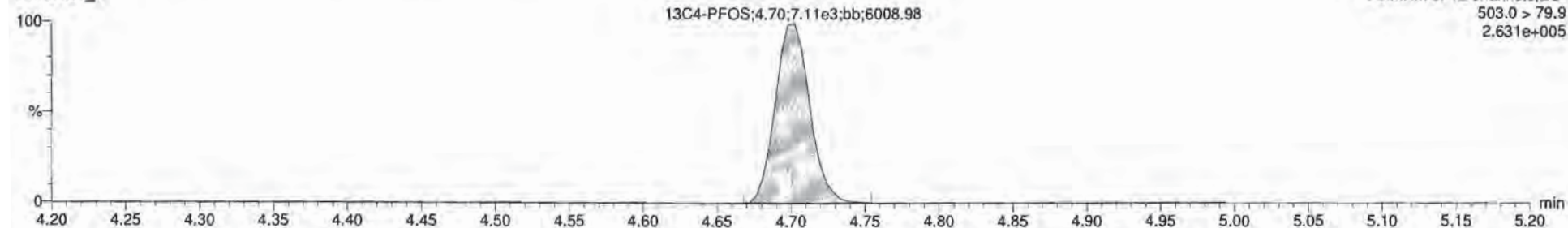
13C8-PFOS

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13C4-PFOS

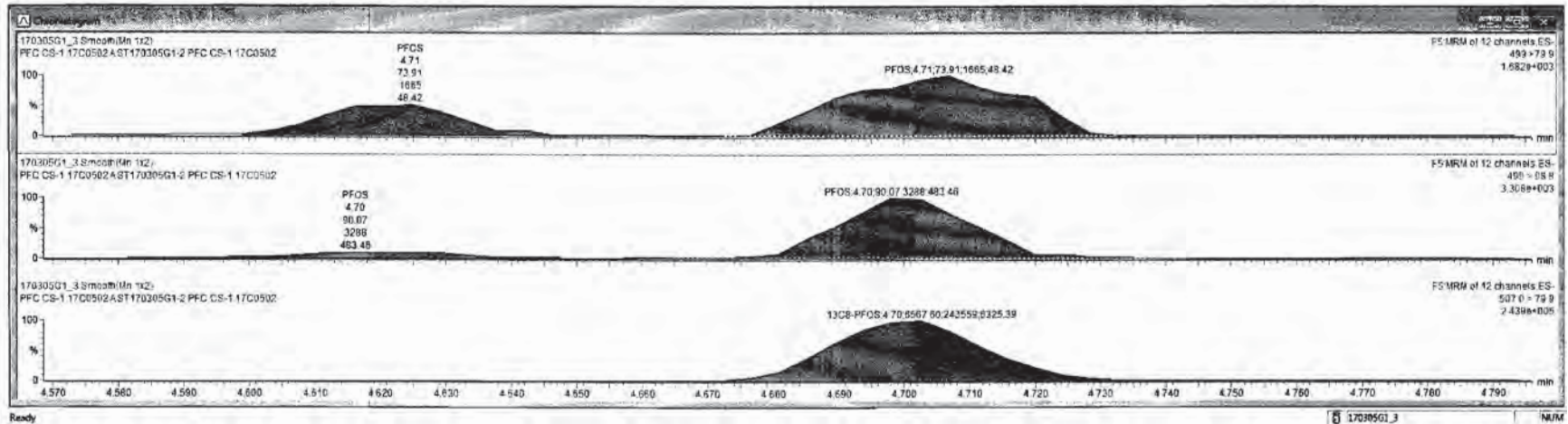
170305G1_3





170305G1_3 ST170305G1.2 PFC CS 1 17C0502 PFC CS 1 17C0502A

#	Name	Trace	Area	RRR	WVal	PreRef	RT	Conc.	>MOL	%Rec	DL
1	PFBS	299 > 79.7	6.19e2		1.000	3.05	3.65	0.475	NO	95.0	
2	PFNA	363 > 318.9	1.43e3		1.000	3.92	3.92	0.516	NO	102.7	
3	PFHxS	398.9 > 79.6	6.47e2		1.000	4.03	4.03	0.496	NO	99.1	
4	PFOA	413 > 308.7	1.52e3		1.000	4.31	4.31	0.452	NO	99.4	
5	PFNA	463 > 418.8	8.81e2		1.000	4.64	4.64	0.489	NO	97.8	
6	PFOS	466 > 378.8	7.36e1		1.000	4.71	4.71	0.388	NO	71.5	0.105326
7	13C-PFBS	302.0 > 88.8	6.45e3	0.410	1.000	3.94	3.65	12.2	NO	97.5	0.0042969
8	13C-PFNA	367.2 > 321.8	1.69e4	1.10	1.000	3.91	3.92	11.9	NO	95.5	0.0052641
9	18O2-PFHxS	403 > 102.6	6.83e3	0.434	1.000	4.03	4.03	12.2	NO	97.4	0.0022648
10	13C-PFOA	414.9 > 369.7	3.53e4	4.81	1.000	4.31	4.31	11.8	NO	94.2	0.0063474
11	13C-PFNA	468.2 > 422.8	7.87e3	0.667	1.000	4.64	4.64	13.5	NO	107.9	0.0073319
12	13C-PFOS	507.0 > 79.9	6.57e3	0.958	1.000	4.70	4.70	12.1	NO	96.4	0.0047793
13	13C-PFHxS	318 > 272.9	2.96e4	1.00	1.000	3.29	3.43	12.5	NO	100.0	0.0076795
14	13C-PFHxS	401.9 > 79.9	1.61e4	1.00	1.000	3.94	4.03	12.5	NO	100.0	0.0053936
15	13C-PFOA	421.3 > 378	8.14e3	1.00	1.000	4.22	4.31	12.5	NO	100.0	0.0086315
16	13C-PFNA	472.2 > 426.9	8.20e3	1.00	1.000	4.56	4.64	12.5	NO	100.0	0.00915263
17	13C-PFOS	503.0 > 79.9	7.11e3	1.00	1.000	4.67	4.70	12.5	NO	100.0	0.0052005
18	Total PFBS	299 > 79.7	6.19e2		1.000	3.11		0.475	NO		
19	Total PFHxS	398.9 > 79.6	6.25e2		1.000	4.09		0.517	NO		
20	Total PFOA	413 > 308.7	1.56e3		1.000	4.39		0.453	NO		
21	Total PFOS	489 > 79.9	9.52e1		1.000	4.67		0.538	NO		0.105326



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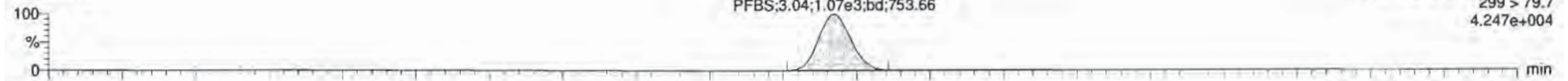
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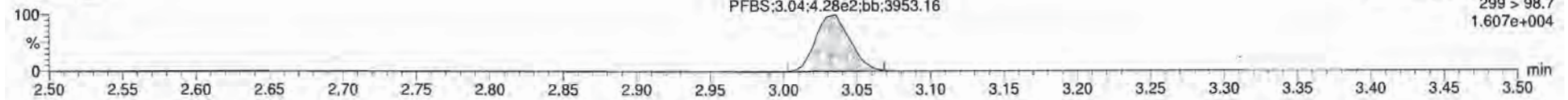
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PFBS

170305G1_4

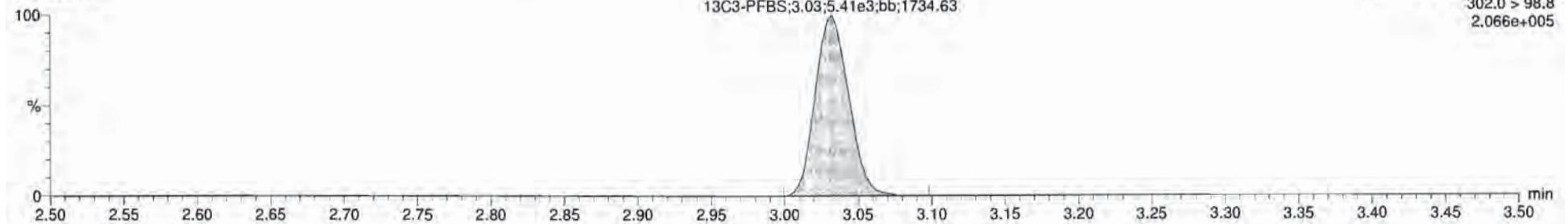


170305G1_4



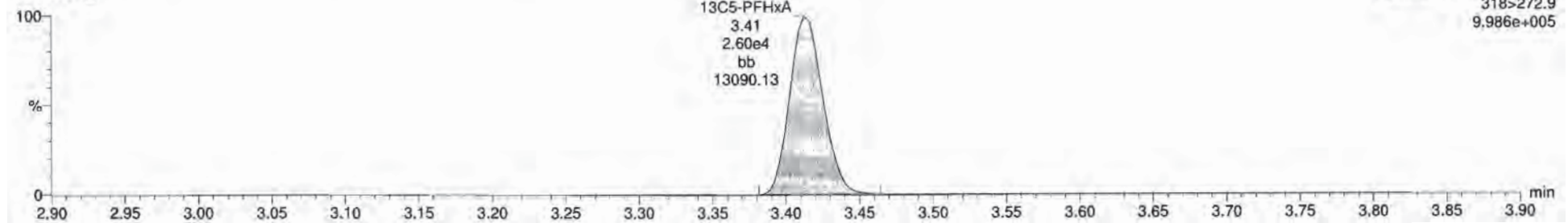
13C3-PFBS

170305G1_4



13C5-PFHxA

170305G1_4



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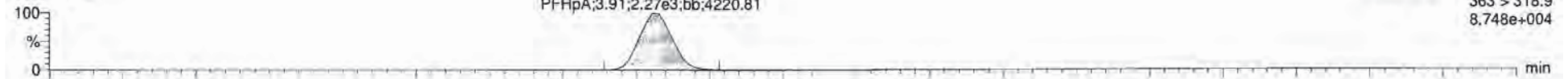
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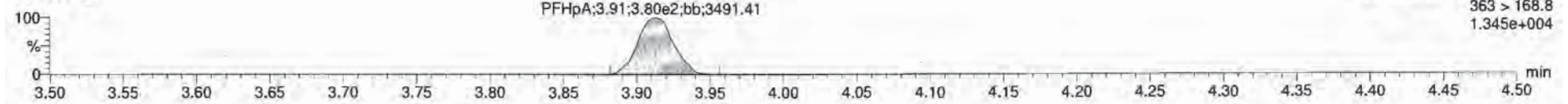
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PFHpA

170305G1_4

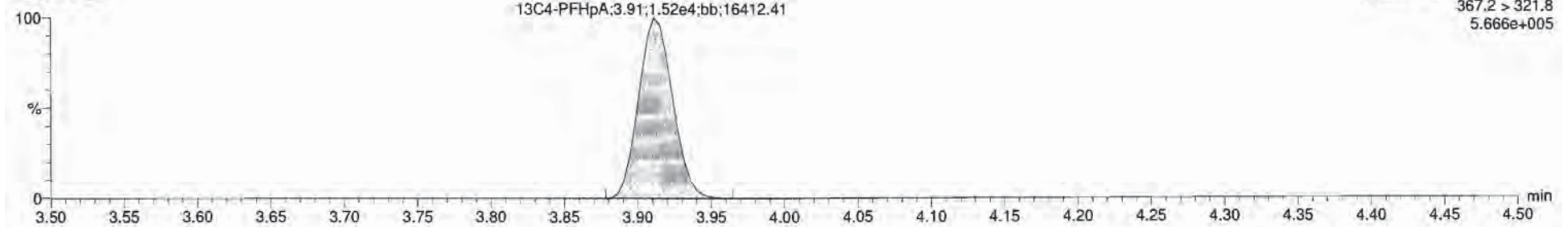


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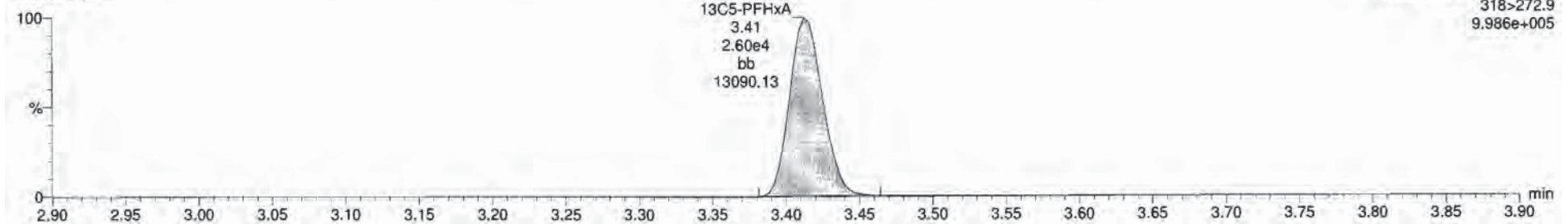
13C4-PFHpA

170305G1_4



13C5-PFHxA

170305G1_4



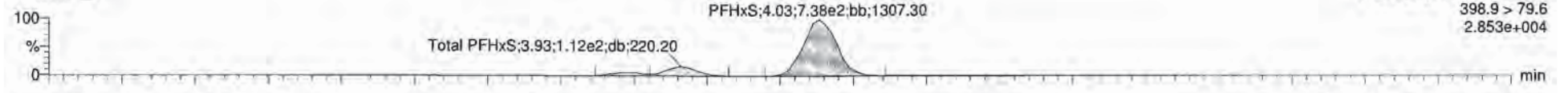
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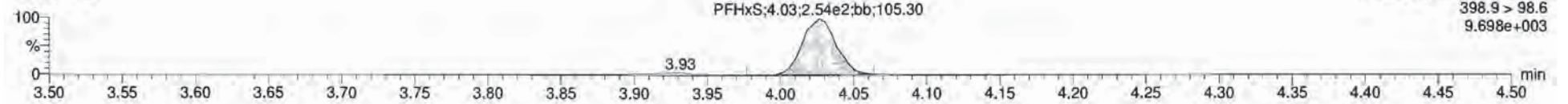
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Total PFHxS

170305G1_4

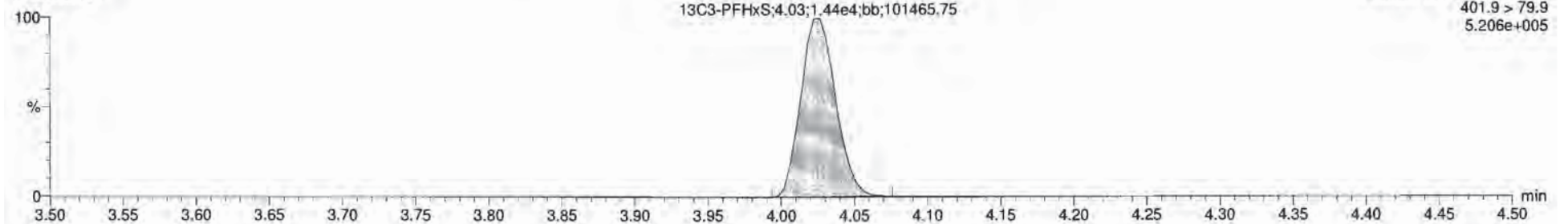


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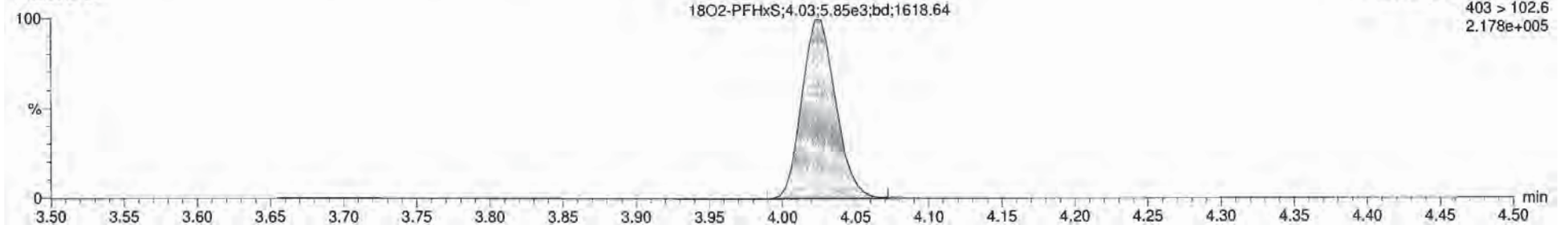
13C3-PFHxS

170305G1_4



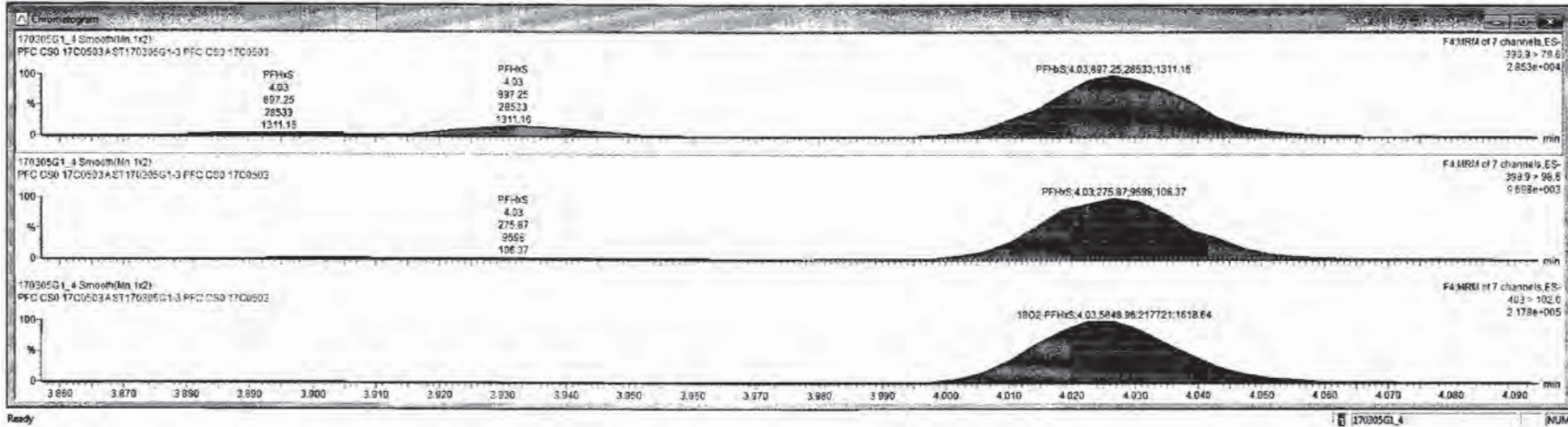
18O2-PFHxS

170305G1_4



170305G1_4 - ST170305G1-3-PFC CS0 1700503 - PFC CS0 1700503 A

#	Name	Trace	Area	DFP	Wt%Adj	Pred RT	RT	Conc.	Wt%	%Rec	DL
1	PFBS	299 > 79.7	1.07e3		1.000	3.03	3.24	1.91	NO	101.1	
2	PFHpA	303 > 318.9	2.27e3		1.000	3.91	3.91	0.964	NO	96.4	
3	PFHxS	398.9 > 79.8	2.97e3		1.000	4.03	4.03	1.00	NO	100.0	
4	PFDA	413 > 368.7	2.09e3		1.000	4.31	4.30	0.938	NO	93.8	
5	PFNA	492 > 418.8	1.26e3		1.000	4.63	4.63	0.958	NO	95.8	
6	PFOS	499 > 79.9	1.82e2		1.000	4.70	4.69	0.889	NO	88.9	0.1022511
7	13C3-PFBS	302.0 > 98.8	5.41e3	0.410	1.000	3.03	3.03	11.5	NO	91.5	0.0174018
8	13C4-PFHpA	307.2 > 321.8	1.52e4	1.10	1.000	3.90	3.91	12.1	NO	96.8	0.0019258
9	18O2-PFHxS	403 > 192.8	5.85e3	0.434	1.000	4.03	4.03	11.7	NO	93.8	0.0186360
10	13C2-PFDA	414.9 > 369.7	2.91e4	4.61	1.000	4.30	4.31	12.4	NO	99.0	0.0006311
11	13C5-PFNA	488.2 > 422.9	5.74e3	0.667	1.000	4.63	4.63	11.8	NO	92.8	0.0071183
12	13C6-PFOS	507.0 > 79.9	4.73e3	0.958	1.000	4.69	4.69	11.9	NO	95.3	0.0110670
13	13C5-PFHxS	318 > 272.9	2.60e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0023873
14	13C3-PFHxS	401.9 > 79.9	1.44e4	1.00	1.000	3.94	4.03	12.5	NO	100.0	0.0003060
15	13C2-PFDA	421.3 > 376	6.38e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0102755
16	13C5-PFNA	472.2 > 426.9	7.15e3	1.00	1.000	4.58	4.63	12.5	NO	100.0	0.0000798
17	13C4-PFOS	503.0 > 79.9	5.19e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0010564
18	Total PFBS	299 > 79.7	1.06e3		1.000	3.11		1.91	NO		
19	Total PFHxS	398.9 > 79.8	1.05e3		1.000	4.09		1.00	NO		
20	Total PFDA	413 > 368.7	2.16e3		1.000	4.29		0.938	NO		
21	Total PFOS	499 > 79.9	2.19e2		1.000	4.67		1.26	NO		0.1022511



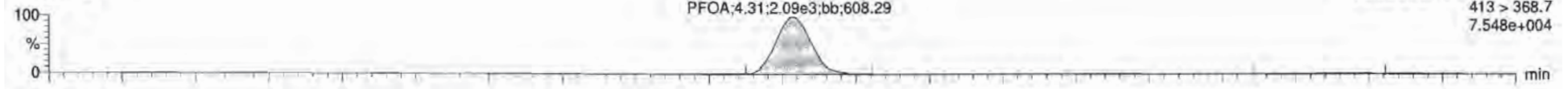
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

ID: ST170305G1-3 PFC CS0 17C0503, Description: PFC CS0 17C0503 A, Name: 170305G1_4, Date: 05-Mar-2017, Time: 13:11:49, Instrument: , Lab: , User:

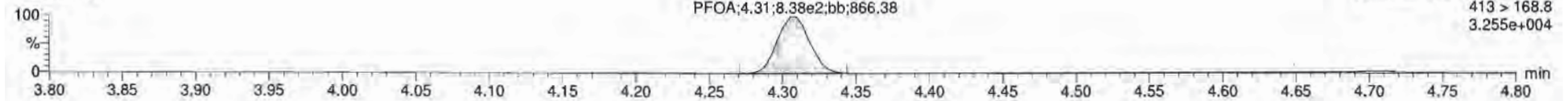
Total PFOA

170305G1_4



F5:MRM of 12 channels,ES-
413 > 368.7
7.548e+004

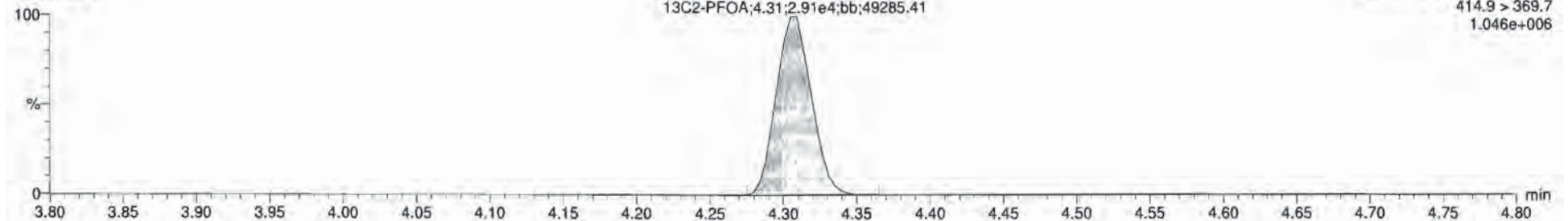
170305G1_4



F5:MRM of 12 channels,ES-
413 > 168.8
3.255e+004

13C2-PFOA

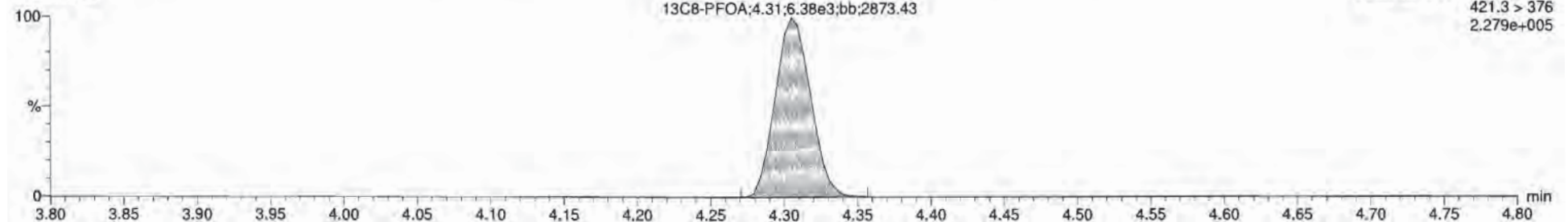
170305G1_4



F5:MRM of 12 channels,ES-
414.9 > 369.7
1.046e+006

13C8-PFOA

170305G1_4



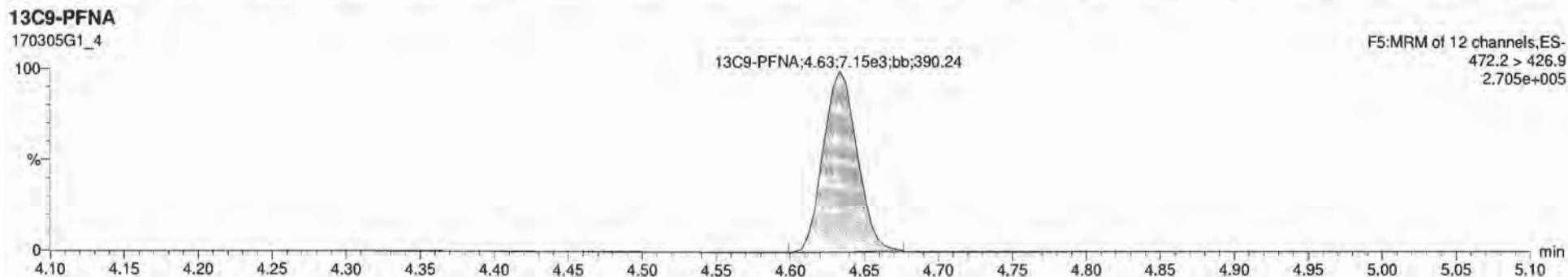
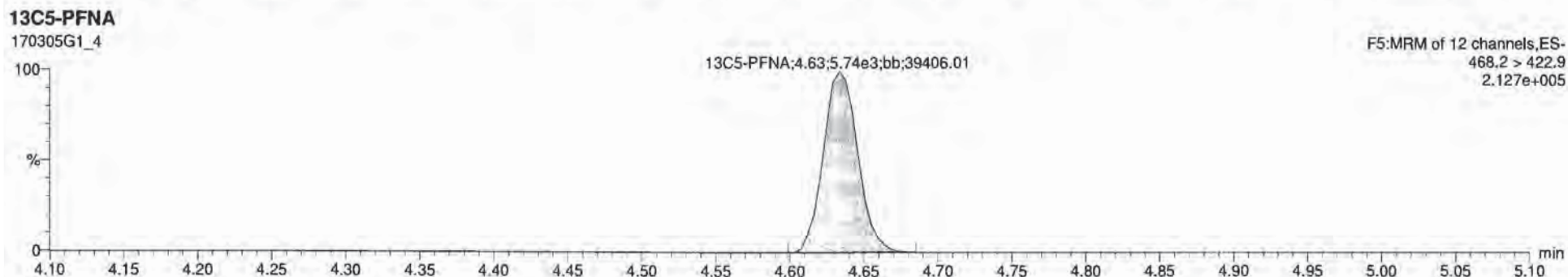
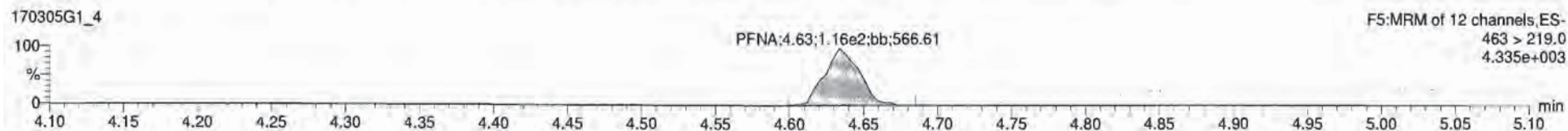
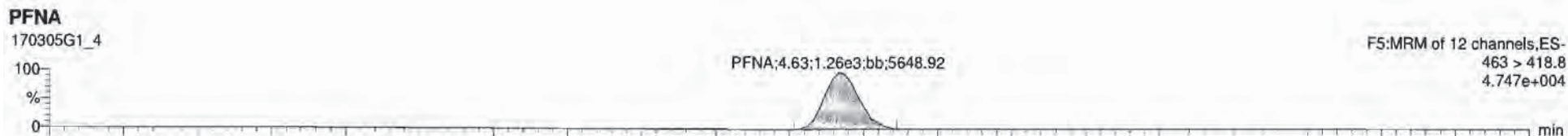
F5:MRM of 12 channels,ES-
421.3 > 376
2.279e+005

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Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time

Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

ID: ST170305G1-3 PFC CS0 17C0503, Description: PFC CS0 17C0503 A, Name: 170305G1_4, Date: 05-Mar-2017, Time: 13:11:49, Instrument: , Lab: , User:



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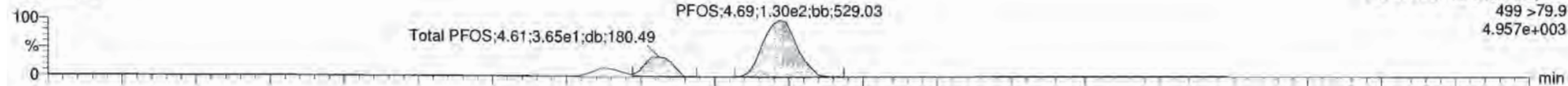
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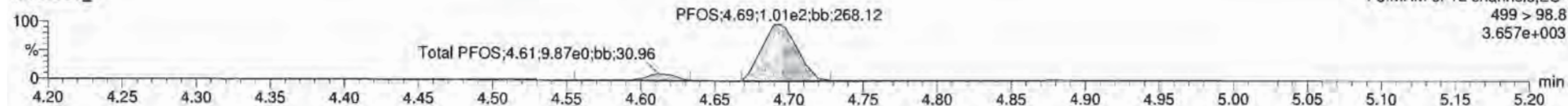
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Total PFOS

170305G1_4

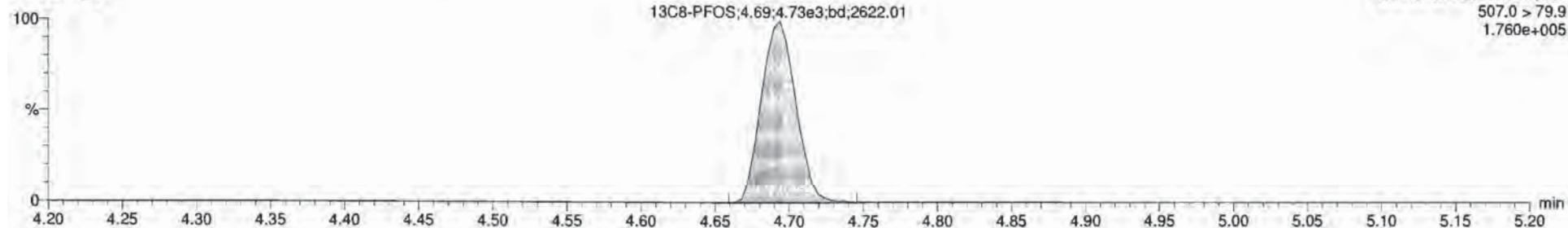


170305G1_4



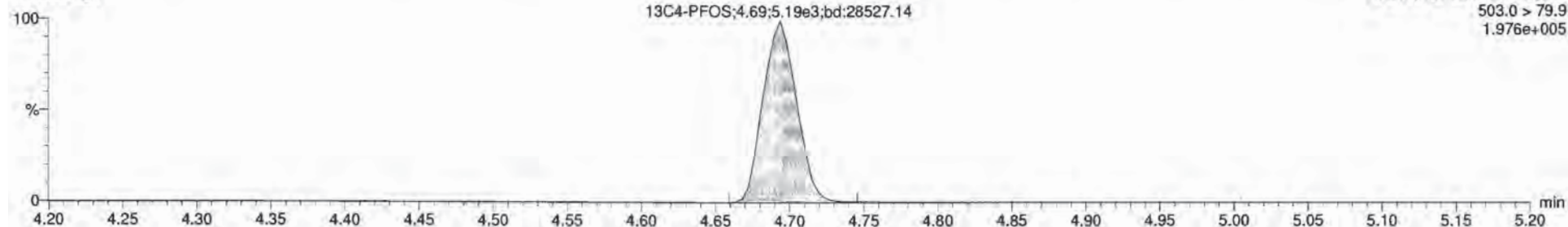
13C8-PFOS

170305G1_4



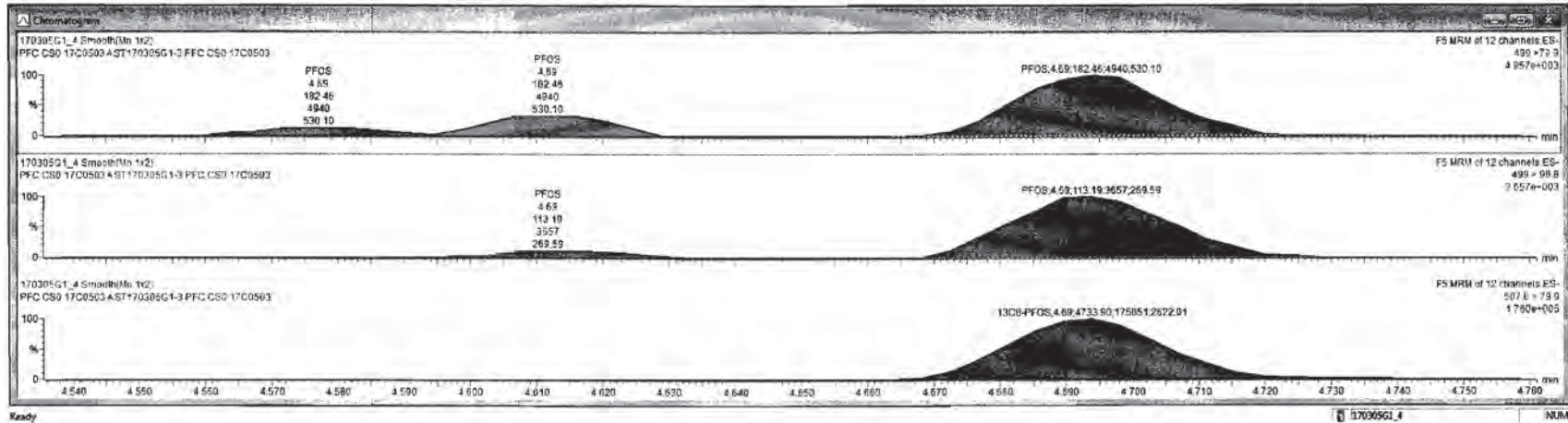
13C4-PFOS

170305G1_4



Target: 17005G1_4 - ST170305G1 3 PFC CS0 17C0503 PFC CS0 17C0503A

SI	Name	Trace	Area	RRF	WtVal	Pred.RT	RT	Comp	>NDL	%Rec	DL
1	PFBS	299 > 79.7	1.07e3		1.000	3.03	3.04	1.01	NO	101.1	
2	PFHpA	363 > 316.9	2.27e3		1.000	3.91	3.91	0.964	NO	96.4	
3	PFHxS	398.9 > 79.6	6.97e3		1.000	4.03	4.03	1.00	NO	100.1	
4	PFOA	413 > 366.7	2.09e3		1.000	4.51	4.50	0.908	NO	90.8	
5	PFNA	463 > 416.8	1.26e3		1.000	4.63	4.63	0.908	NO	90.8	
6	PFOS	499 > 79.8	1.92e3		1.000	4.70	4.69	0.969	NO	96.9	0.1002511
7	13C3-PFBS	302.0 > 96.8	5.41e3	0.410	1.000	3.03	3.03	11.5	NO	91.9	0.0174615
8	13C4-PFHpA	367.2 > 321.8	1.52e4	1.10	1.000	3.90	3.91	12.1	NO	96.6	0.0018990
9	13C2-PFHxS	403 > 192.6	5.85e3	0.434	1.000	4.03	4.03	11.7	NO	93.8	0.0186303
10	13C2-PFOA	414.9 > 369.7	2.91e4	4.61	1.000	4.20	4.21	12.4	NO	99.0	0.0099311
11	13C5-PFNA	466.2 > 422.9	5.74e3	0.867	1.000	4.63	4.63	11.6	NO	92.6	0.0007193
12	13C4-PFOS	507.0 > 79.9	4.73e3	0.958	1.000	4.69	4.69	11.9	NO	95.0	0.0110670
13	13C3-PFHpA	316 > 272.9	2.69e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0023373
14	13C3-PFHxS	401.9 > 79.9	1.44e4	1.00	1.000	3.94	4.03	12.5	NO	100.0	0.0003050
15	13C8-PFOA	421.3 > 376	6.38e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0108755
16	13C8-PFNA	472.2 > 426.9	7.15e3	1.00	1.000	4.66	4.63	12.5	NO	100.0	0.0000790
17	13C4-PFOS	503.0 > 79.9	5.19e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0010994
18	Total PFBS	299 > 79.7	1.08e3		1.000	3.11		1.01	NO		
19	Total PFHxS	396.9 > 79.6	1.05e3		1.000	4.09		1.00	NO		
20	Total PFOA	413 > 366.7	2.16e3		1.000	4.39		0.908	NO		
21	Total PFOS	499 > 79.8	2.19e3		1.000	4.67		1.26	NO		0.1002511



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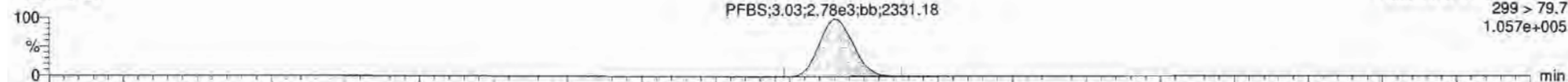
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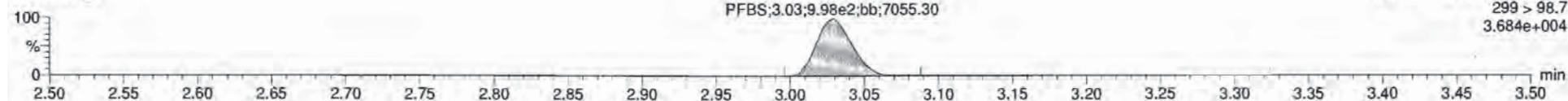
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PFBS

170305G1_5

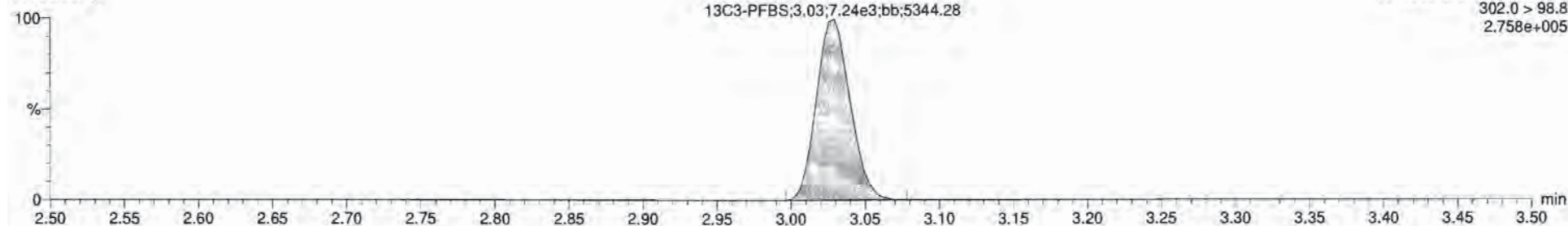


170305G1_5



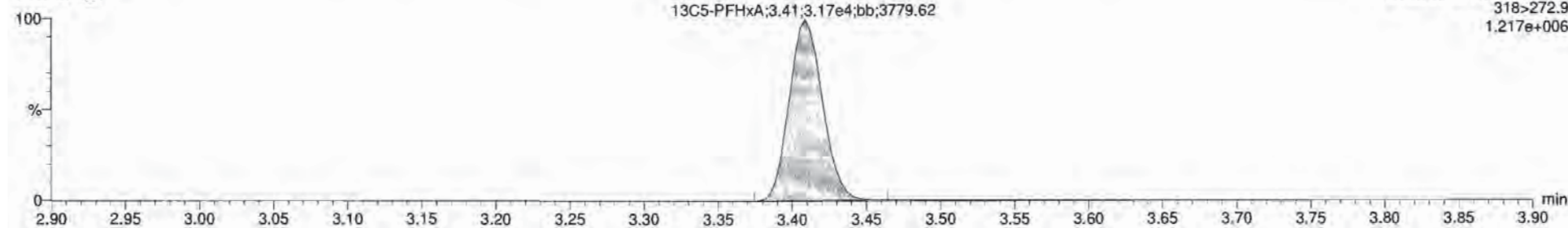
13C3-PFBS

170305G1_5



13C5-PFHxA

170305G1_5



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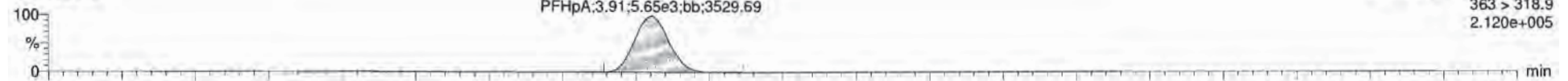
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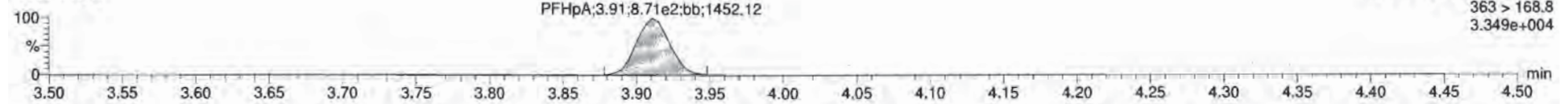
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PFHpA

170305G1_5

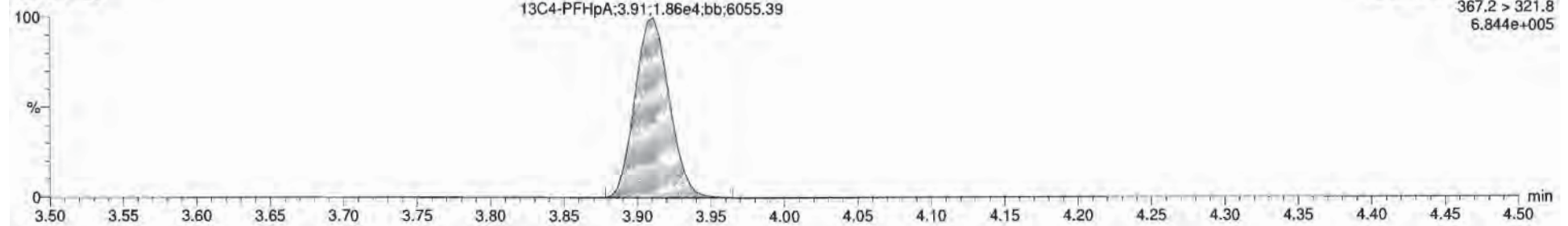


170305G1_5



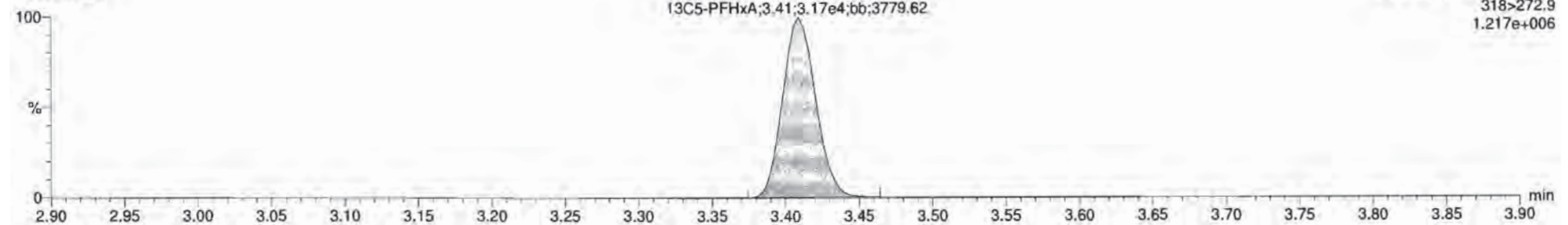
13C4-PFHpA

170305G1_5



13C5-PFHxA

170305G1_5



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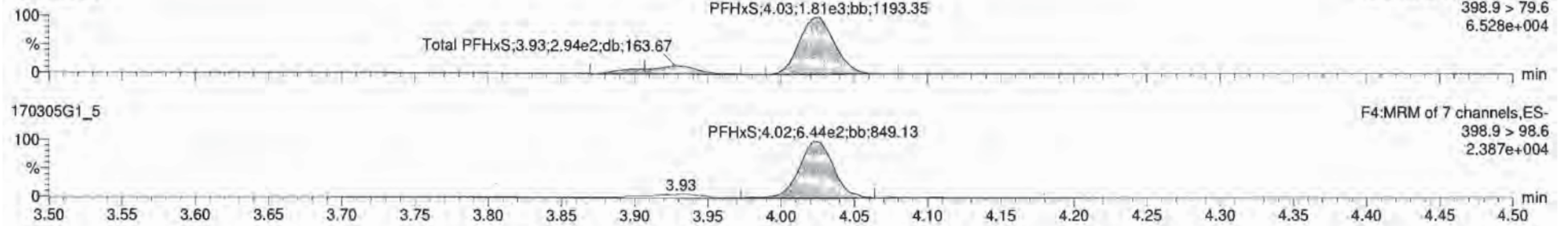
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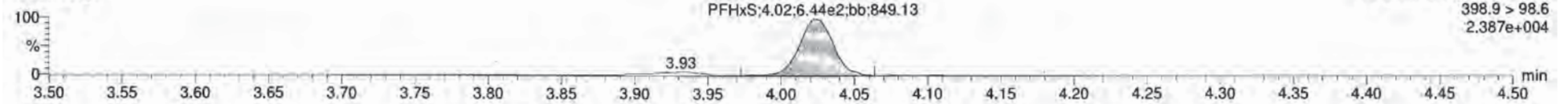
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Total PFHxS

170305G1_5

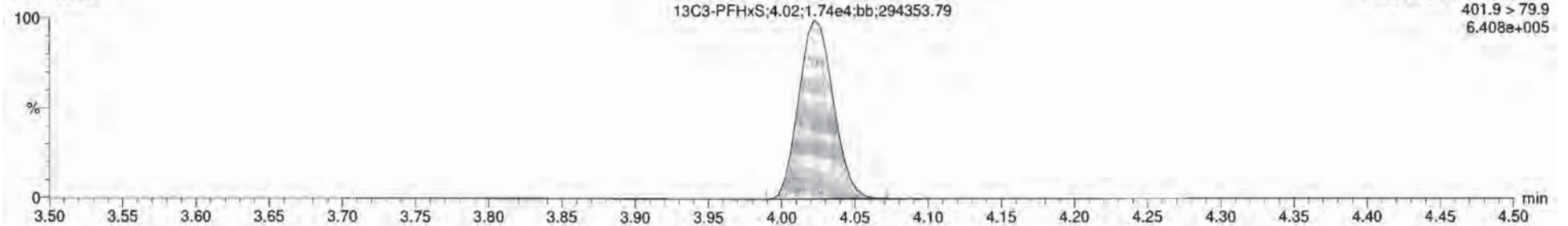


170305G1_5



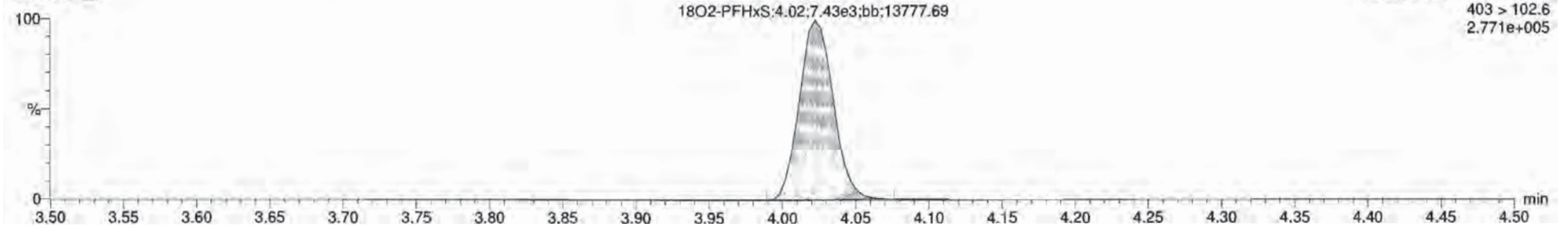
13C3-PFHxS

170305G1_5



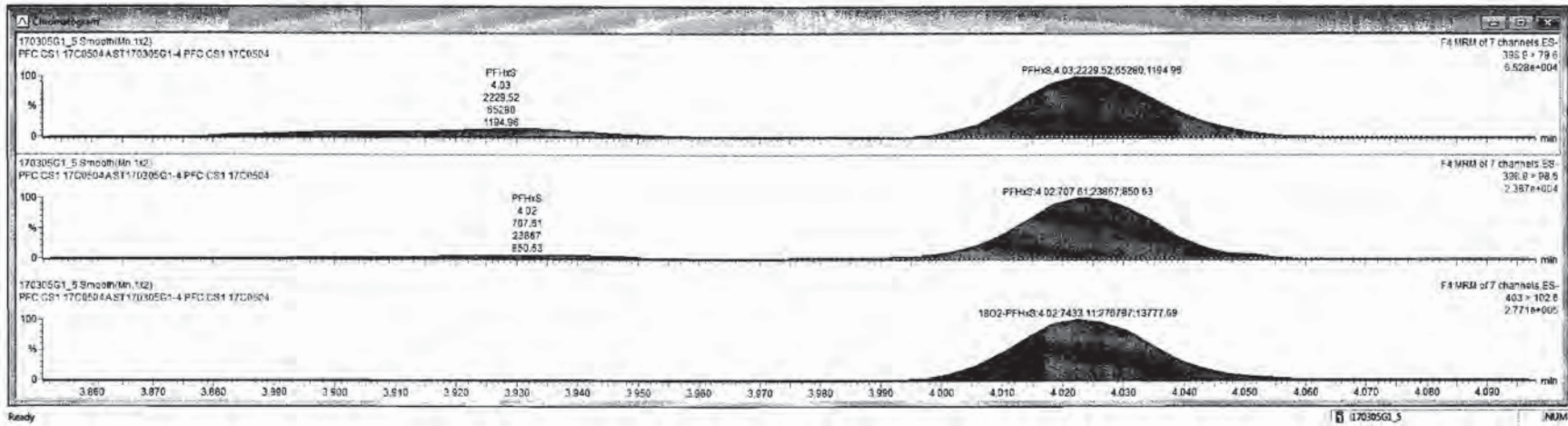
18O2-PFHxS

170305G1_5



Target: 170305G1_5 S1:170305G1 4 PFC:CS1 17C0504 PFC:CS1 17C0504A

#	Name	Trace	Area	RRF	WMSL	Pred RT	RT	Conc	%IDL	%Rec	DL
1	PFBS	299 > 79.7	2.7843		1.000	3.93	3.63	1.99	NO	99.3	
2	PFhxA	365 > 79.9	5.6543		1.000	3.91	3.91	2.63	NO	102.3	
3	PFhXS	388.9 > 79.6	2.2343		1.000	4.82	4.83	2.81	NO	102.5	
4	PFOA	413 > 368.7	5.3643		1.000	4.30	4.30	2.06	NO	103.1	
5	PFNA	483 > 418.8	3.1742		1.000	4.63	4.63	2.84	NO	102.8	
6	PFOS	499 > 79.9	5.2842		1.000	4.68	4.69	2.46	YES	123.0	0.1190520
7	13C3-PFBS	302.9 > 98.8	7.2443	0.410	1.000	3.83	3.63	12.7	NO	101.2	0.0061404
8	13C4-PFhxA	367.2 > 321.8	1.8644	1.10	1.000	3.90	3.91	12.1	NO	96.6	0.0551096
9	18O2-PFhXS	403 > 102.6	7.4342	0.434	1.000	4.62	4.62	12.3	NO	96.2	0.0222658
10	13C2-PFOA	414.9 > 369.7	3.7044	4.61	1.000	4.30	4.30	12.2	NO	97.6	0.0184583
11	13C5-PFNA	465.2 > 422.9	6.9743	0.867	1.000	4.63	4.63	12.3	NO	96.6	0.0211307
12	13C6-PFOS	507.0 > 79.9	5.1843	0.858	1.000	4.69	4.69	12.4	NO	99.1	0.0157137
13	13C5-PFhxA	316.0-272.8	3.1744	1.00	1.000	3.23	3.41	12.3	NO	100.0	0.0082600
14	13C3-PFhXS	401.8 > 79.9	1.7444	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0091062
15	13C8-PFOA	421.3 > 376	8.2343	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0231458
16	13C9-PFNA	472.2 > 426.9	8.1643	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0068300
17	13C4-PFOS	503.0 > 79.9	5.4543	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0018054
18	Total PFBS	299 > 79.7	2.7842		1.000	3.11		1.99	NO		
19	Total PFhXS	388.9 > 79.6	2.6343		1.000	4.69		2.27	NO		
20	Total PFOA	413 > 368.7	5.4643		1.000	4.59		2.06	NO		
21	Total PFOS	499 > 79.9	6.8842		1.000	4.67		3.37	NO		0.1190520



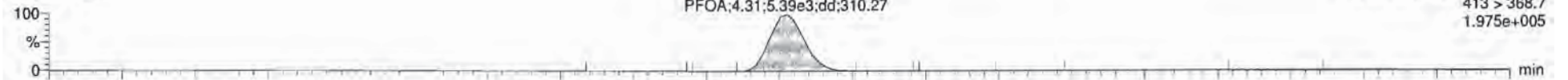
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

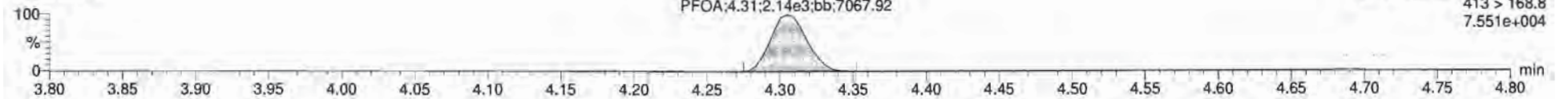
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Total PFOA

170305G1_5

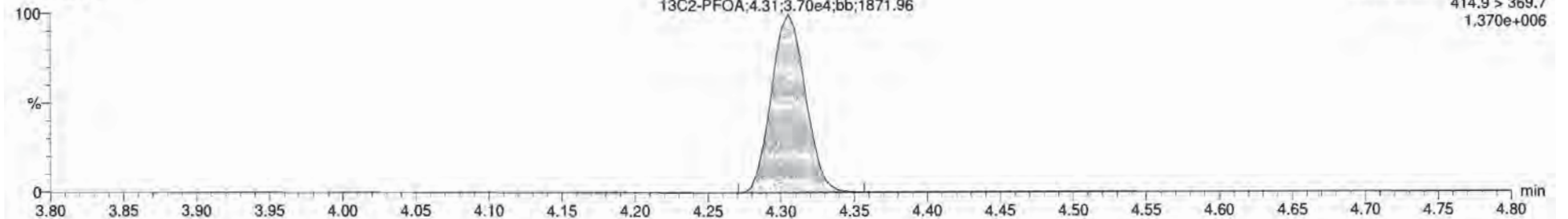


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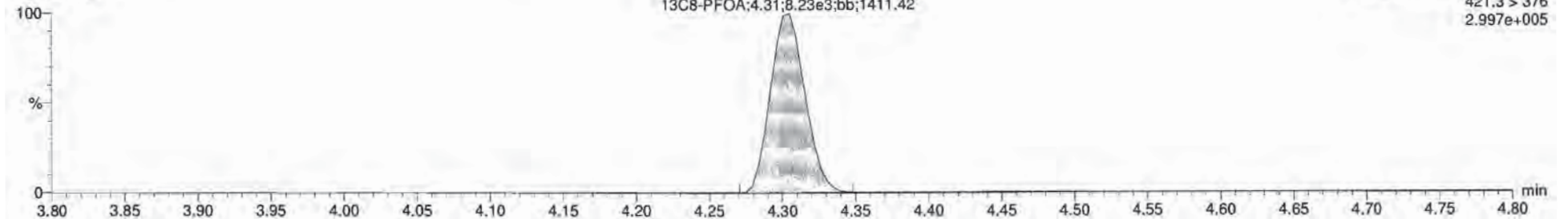
13C2-PFOA

170305G1_5



13C8-PFOA

170305G1_5



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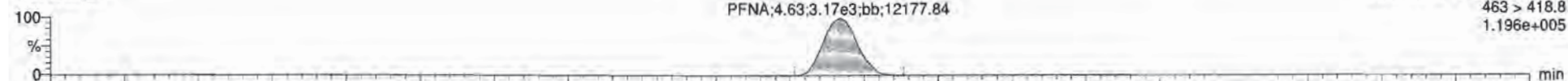
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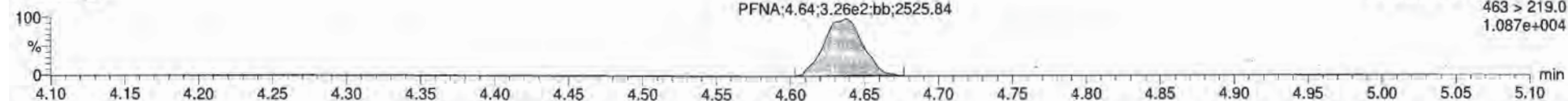
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170305G1_5

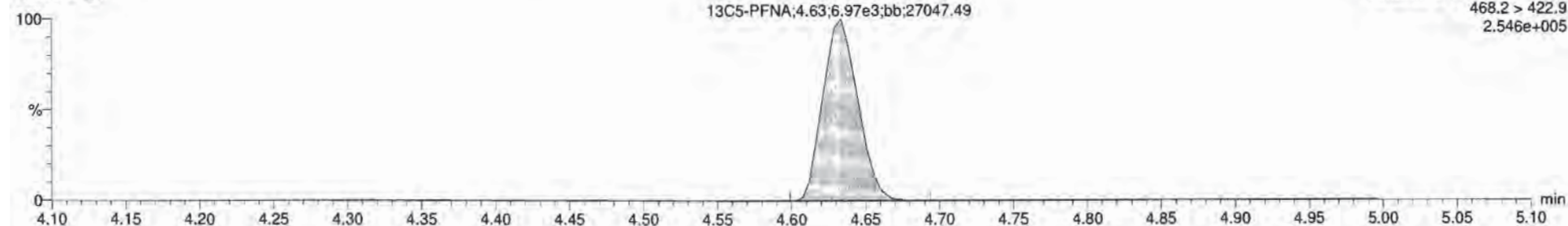


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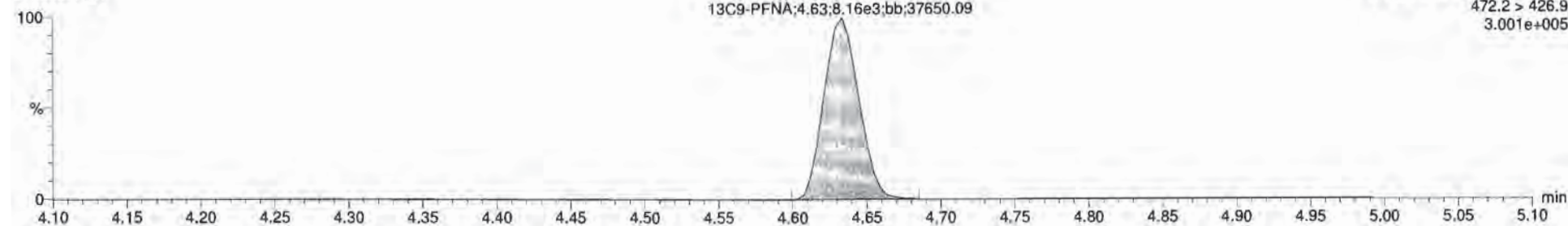
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170305G1_5



13C9-PFNA

170305G1_5



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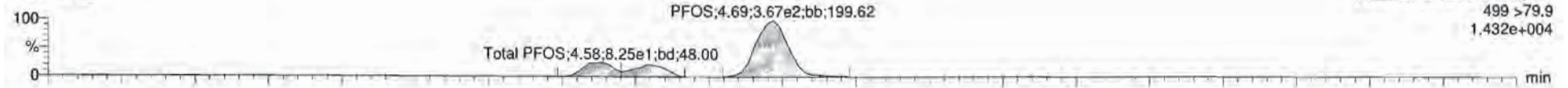
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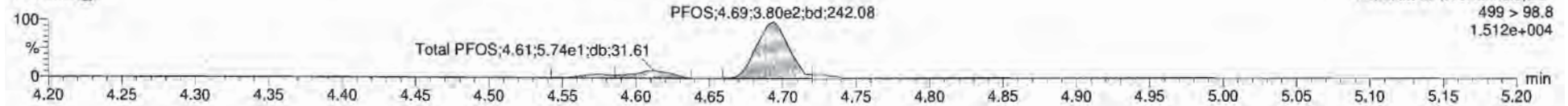
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Total PFOS

170305G1_5

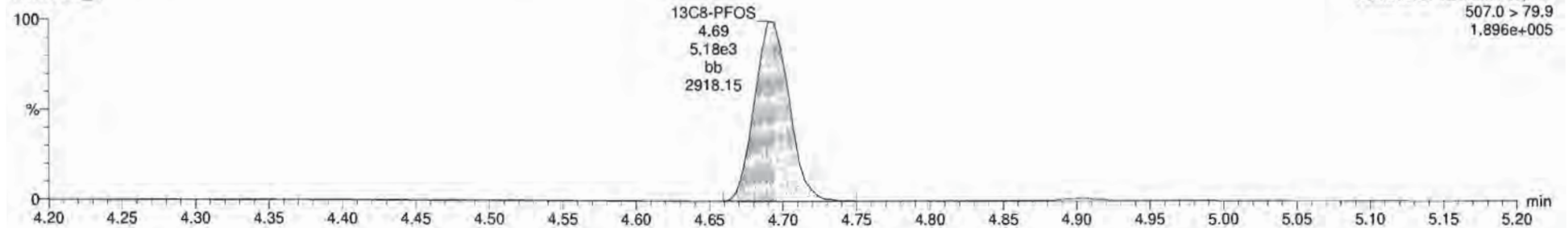


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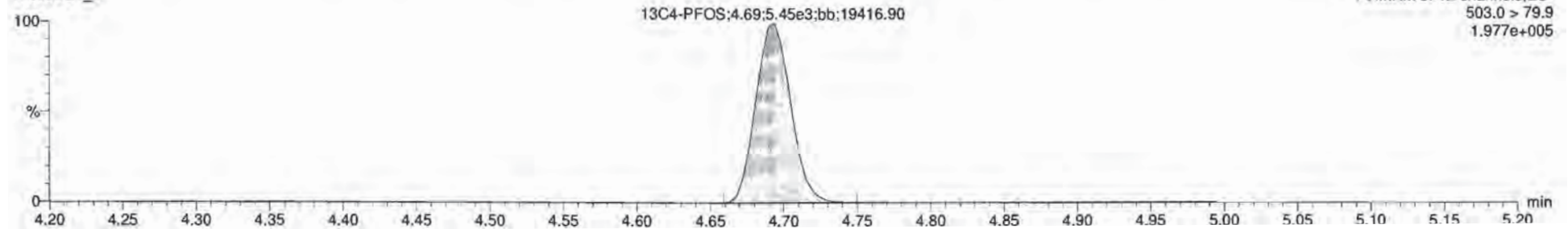
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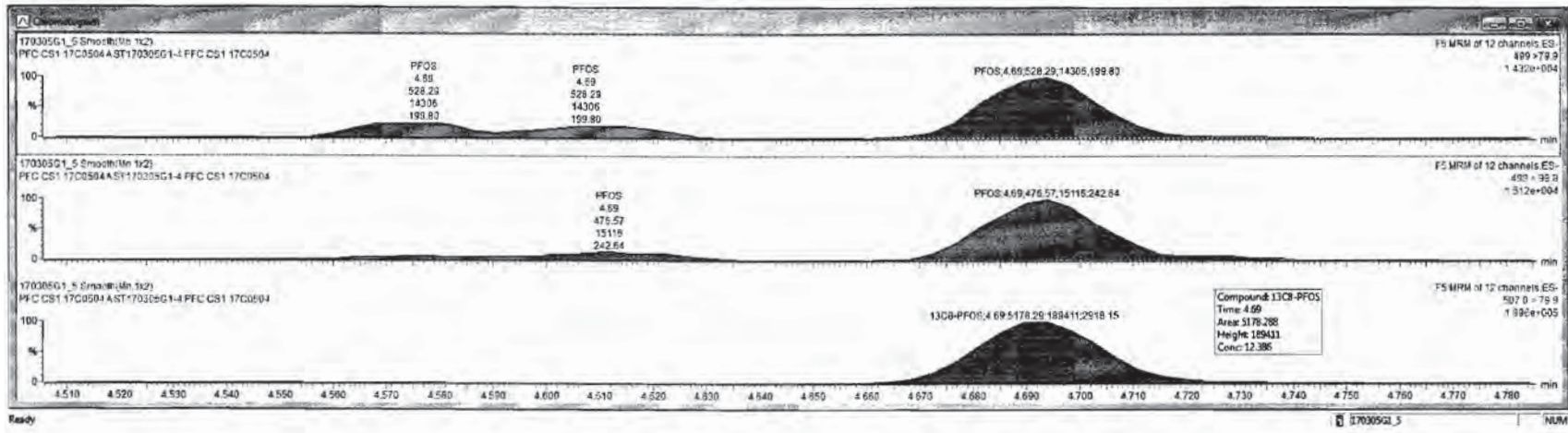


13C4-PFOS

170305G1_5



#	Name	Trace	Area	RT	WV%	Prod.RT	RT	Conc.	>MCL	%Rec	DL
1	PFBS	299 > 79.7	2.7863		1.000	3.03	3.03	1.99	NO	99.9	
2	PFHpA	383 > 318.9	5.8543		1.000	3.91	3.91	2.06	NO	162.3	
3	PFHxS	398.9 > 79.6	2.2243		1.000	4.02	4.02	2.01	NO	196.5	
4	PFOA	413 > 368.7	5.3943		1.000	4.38	4.38	2.50	NO	193.1	
5	PFNA	463 > 418.8	3.1743		1.000	4.63	4.63	2.94	NO	192.3	
6	PFOS	499 > 476.5	3.2862		1.000	4.69	4.69	2.46	YES	122.0	0.1198202
7	13C3-PFBS	392.0 > 96.8	7.2443	6.410	1.000	3.03	3.03	12.7	NO	101.2	0.0661464
8	13C4-PFHpA	387.2 > 321.8	1.8664	1.100	1.000	3.90	3.91	12.1	NO	96.9	0.0601865
9	13C2-PFHxS	493 > 102.6	7.4343	8.434	1.000	4.02	4.02	12.3	NO	98.2	0.0622395
10	13C2-PFOA	414.9 > 369.7	3.7664	4.611	1.000	4.30	4.30	12.2	NO	97.6	0.0105493
11	13C5-PFNA	460.2 > 422.9	6.9743	6.667	1.000	4.63	4.63	12.3	NO	96.5	0.0011307
12	13C6-PFOS	507.0 > 79.9	5.1563	8.956	1.000	4.69	4.69	12.4	NO	99.1	0.0107137
13	13C5-PFHpA	310 > 272.9	3.1744	1.000	1.000	3.29	3.41	12.5	NO	100.0	0.0002633
14	13C3-PFHxS	491.9 > 79.9	1.7444	1.000	1.000	3.54	4.02	12.5	NO	100.0	0.0001062
15	13C8-PFOA	421.2 > 376	8.2343	1.000	1.000	4.22	4.30	12.5	NO	100.0	0.0221408
16	13C8-PFNA	472.2 > 426.9	8.1643	1.000	1.000	4.56	4.63	12.5	NO	100.0	0.0003300
17	13C4-PFOS	503.0 > 79.9	5.4543	1.000	1.000	4.67	4.69	12.5	NO	100.0	0.0016999
18	Total PFBS	299 > 79.7	2.7863		1.000	3.11		1.99	NO		
19	Total PFHxS	398.9 > 79.6	2.6243		1.000	4.09		2.27	NO		
20	Total PFOA	413 > 368.7	5.8643		1.000	4.39		2.06	NO		
21	Total PFOS	499 > 79.9	6.8862		1.000	4.67		3.37	NO		0.1198202



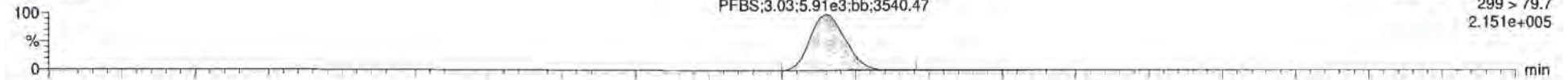
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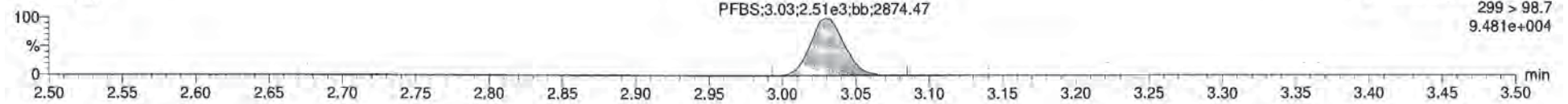
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PFBS

170305G1_6

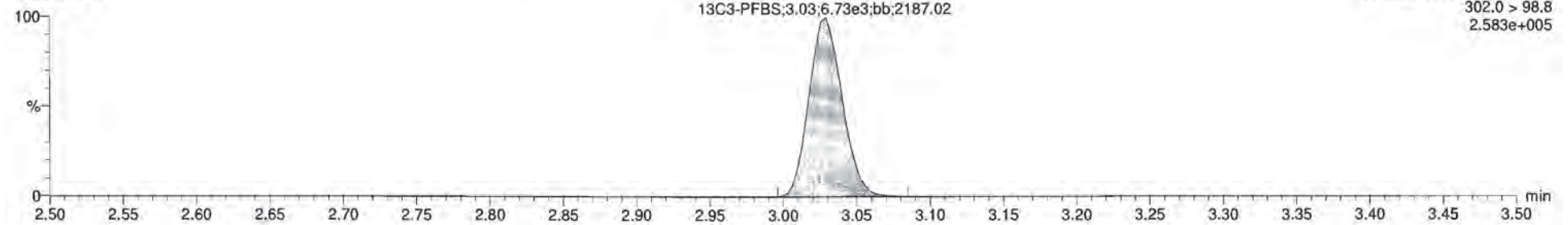


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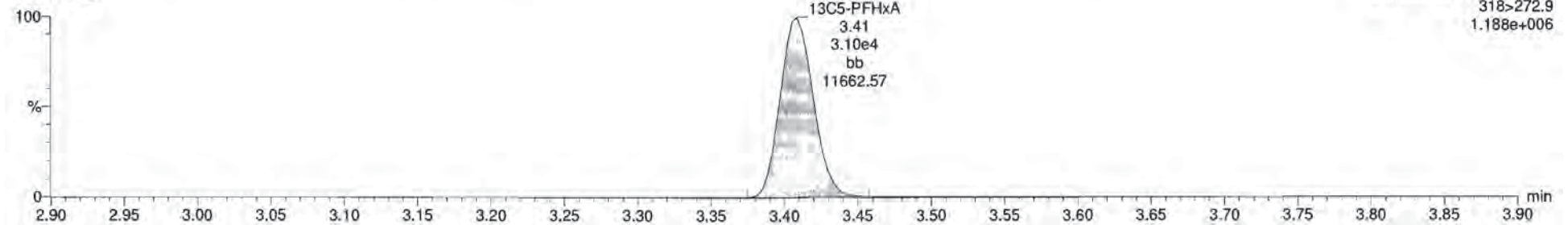
13C3-PFBS

170305G1_6



13C5-PFHxA

170305G1_6

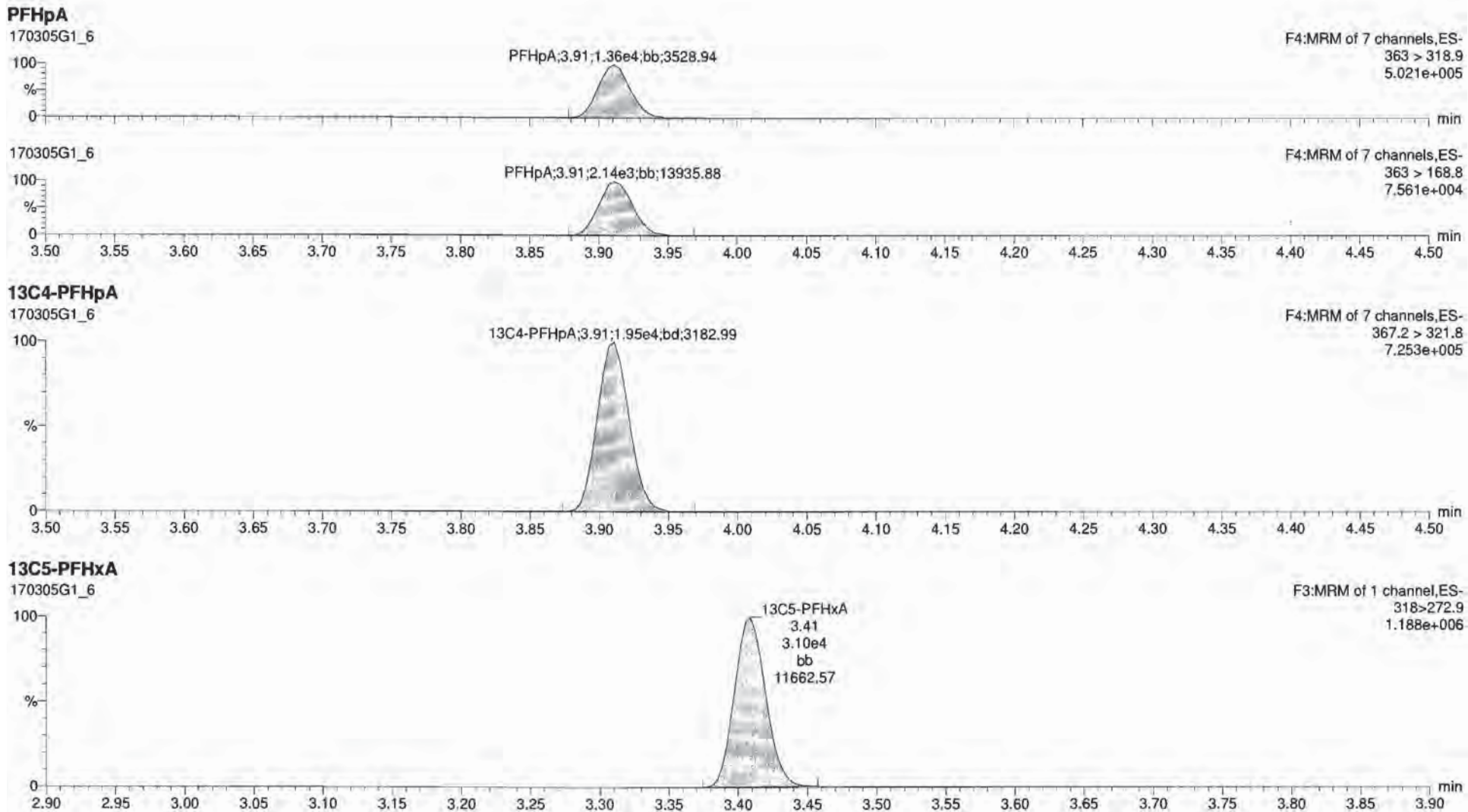


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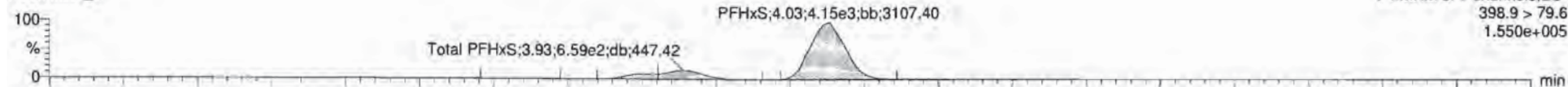
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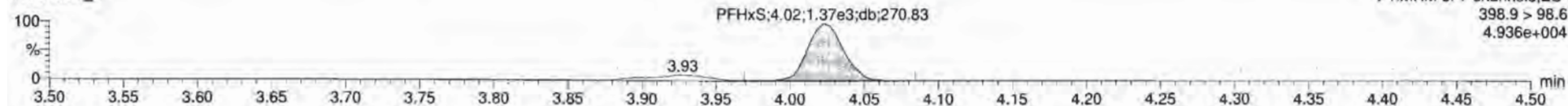
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Total PFHxS

170305G1_6

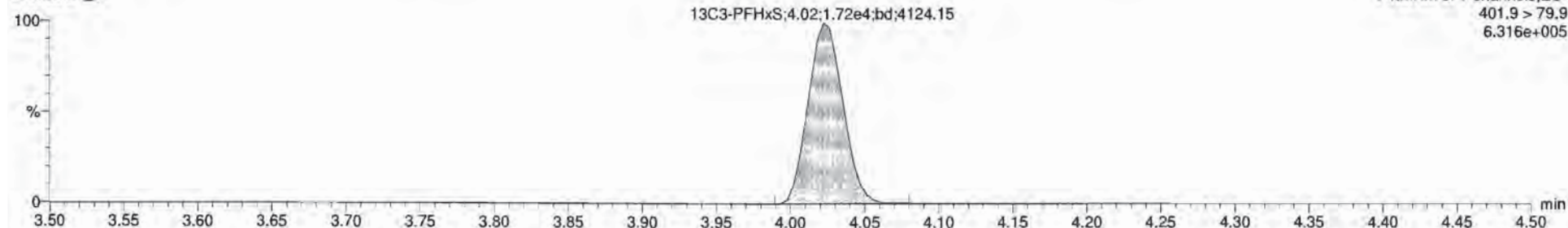


170305G1_6



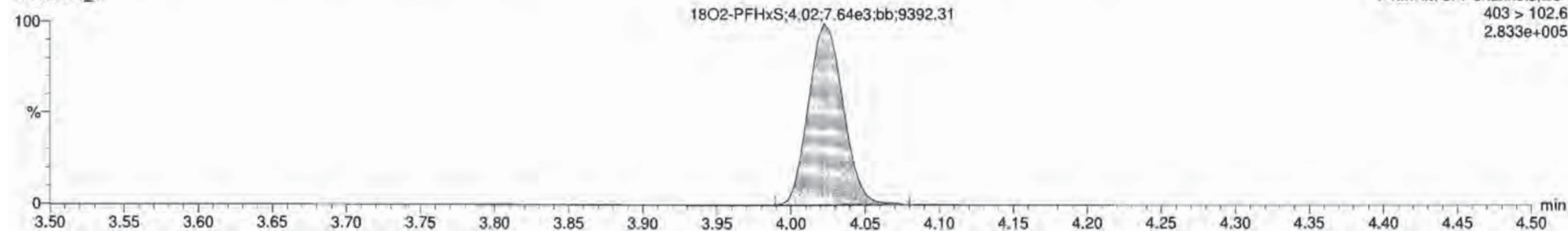
13C3-PFHxS

170305G1_6



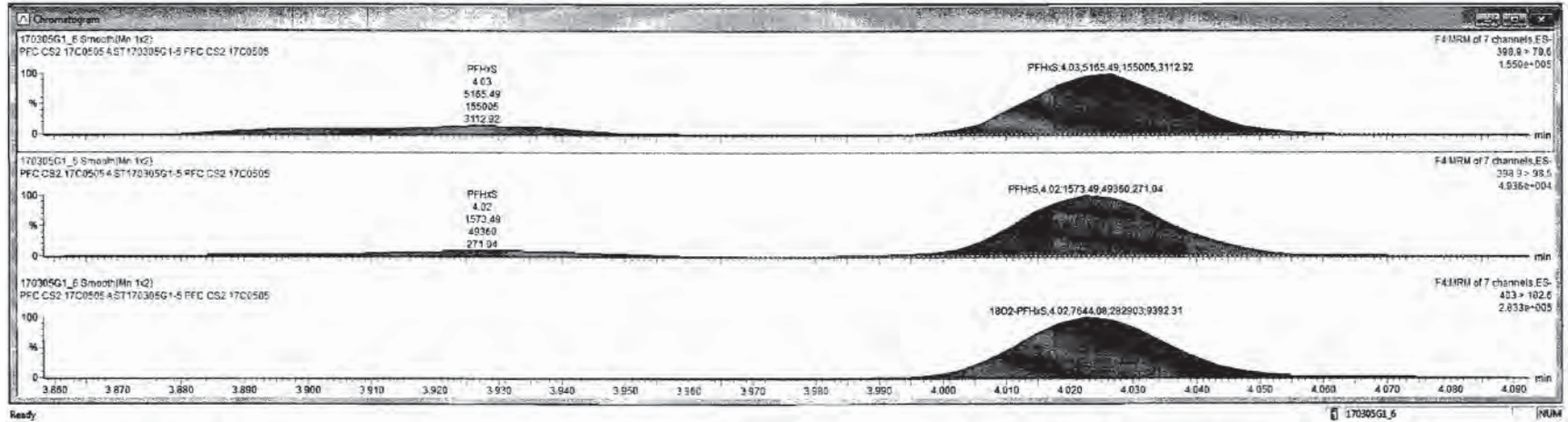
18O2-PFHxS

170305G1_6



170305G1_6 - ST170305G1-5-PFC CS2 17C0505 - PFC CS2 17C0505 A

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1	PFBS	298 > 79.7	5.91e3	1.000	3.03	3.03	4.58	NO	91.8		
2	PFHpA	363 > 318.9	1.36e4	1.000	3.91	3.91	4.78	NO	95.6		
3	PFHxS	395.6 > 78.8	5.17e3	1.000	4.02	4.03	4.80	YES	92.0		
4	PFDA	413 > 368.7	1.24e4	1.000	4.30	4.30	5.43	YES	108.5		
5	PFNA	453 > 418.8	7.77e3	1.000	4.63	4.63	4.71	YES	94.2		
6	PFOS	499 > 79.9	1.22e3	1.000	4.70	4.69	5.14	YES	102.8	0.0999192	
7	13C3-PFBS	302.0 > 93.8	6.73e3	0.410	1.000	3.03	3.03	11.9	NO	95.3	0.0142843
8	13C4-PFHpA	367.2 > 321.8	1.96e4	1.10	1.000	3.90	3.91	12.0	NO	103.0	0.0102764
9	18O2-PFHxS	403 > 182.6	7.64e3	0.434	1.000	4.02	4.02	12.8	NO	102.2	0.0024349
10	13C2-PFDA	414.9 > 369.7	3.46e4	4.61	1.000	4.30	4.30	11.9	NO	95.4	0.0048755
11	13C3-PFNA	456.2 > 422.9	7.48e3	0.867	1.000	4.63	4.63	12.5	NO	100.0	0.0007409
12	13C4-PFOS	507.0 > 79.9	5.64e2	0.950	1.000	4.69	4.69	11.7	NO	92.2	0.0436914
13	13C3-PFHpA	318 > 272.9	3.10e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0026795
14	13C4-PFHxS	401.9 > 79.9	1.72e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0075773
15	13C6-PFDA	421.3 > 376	7.88e2	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0067668
16	13C3-PFNA	472.2 > 426.9	8.63e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0005215
17	13C4-PFOS	503.0 > 79.9	6.31e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0165574
18	Total PFBS	298 > 79.7	5.91e3								
19	Total PFHxS	395.6 > 79.6	6.15e3								
20	Total PFDA	413 > 368.7	1.25e4								
21	Total PFOS	499 > 79.9	1.67e3								0.0999192



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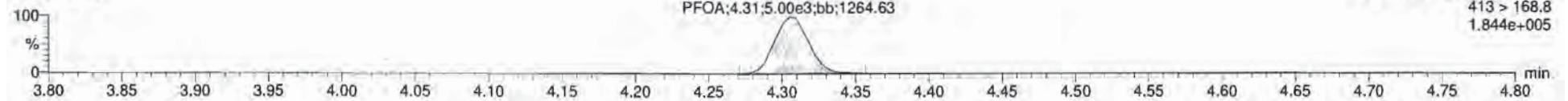
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Total PFOA

170305G1_6

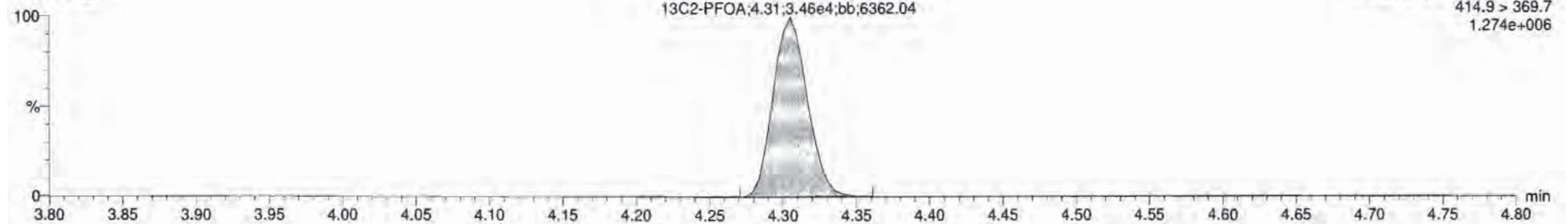


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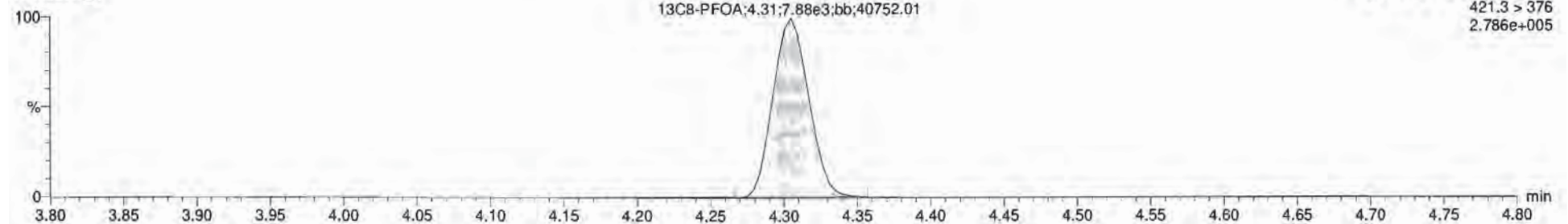
13C2-PFOA

170305G1_6



13C8-PFOA

170305G1_6



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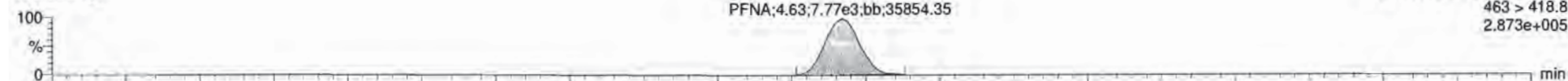
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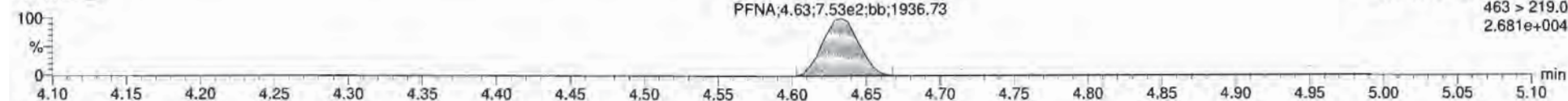
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170305G1_6

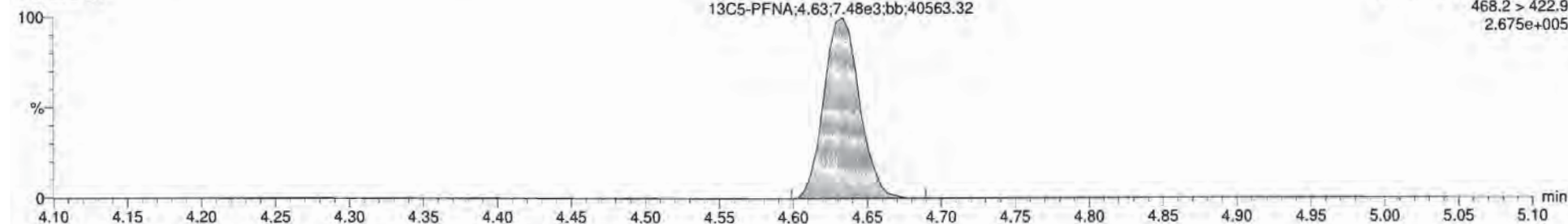


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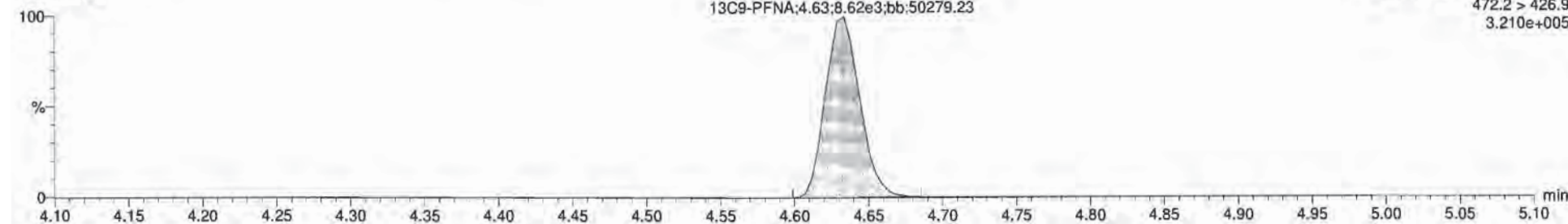
13C5-PFNA

170305G1_6



13C9-PFNA

170305G1_6



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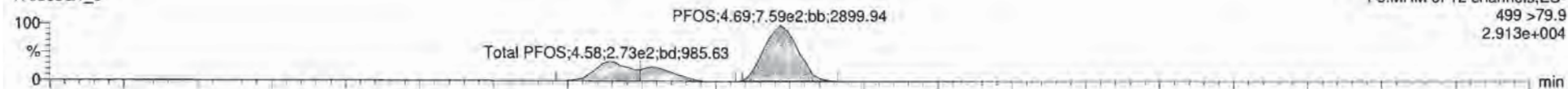
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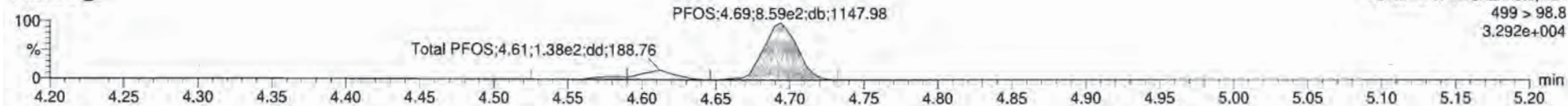
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Total PFOS

170305G1_6

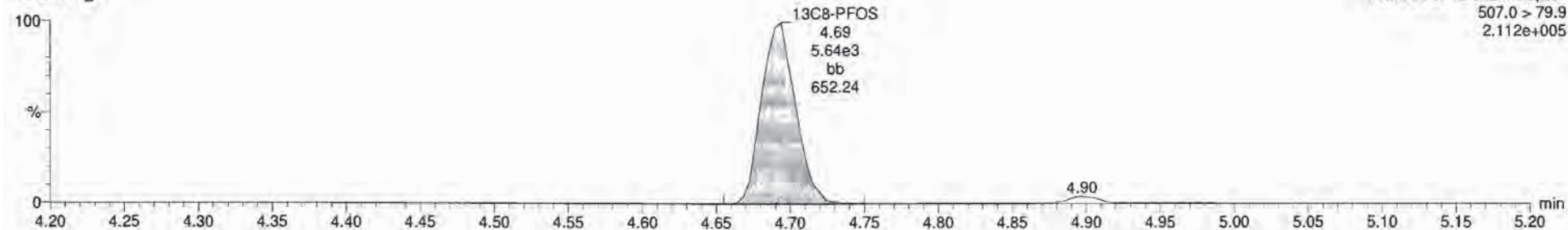


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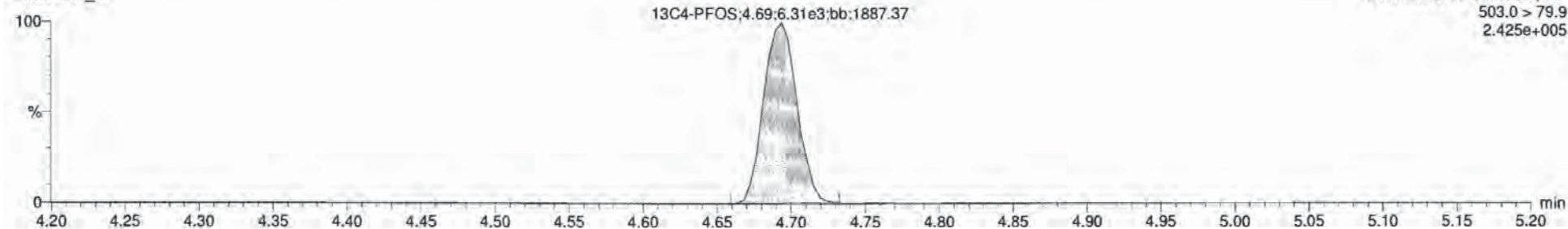
13C8-PFOS

170305G1_6

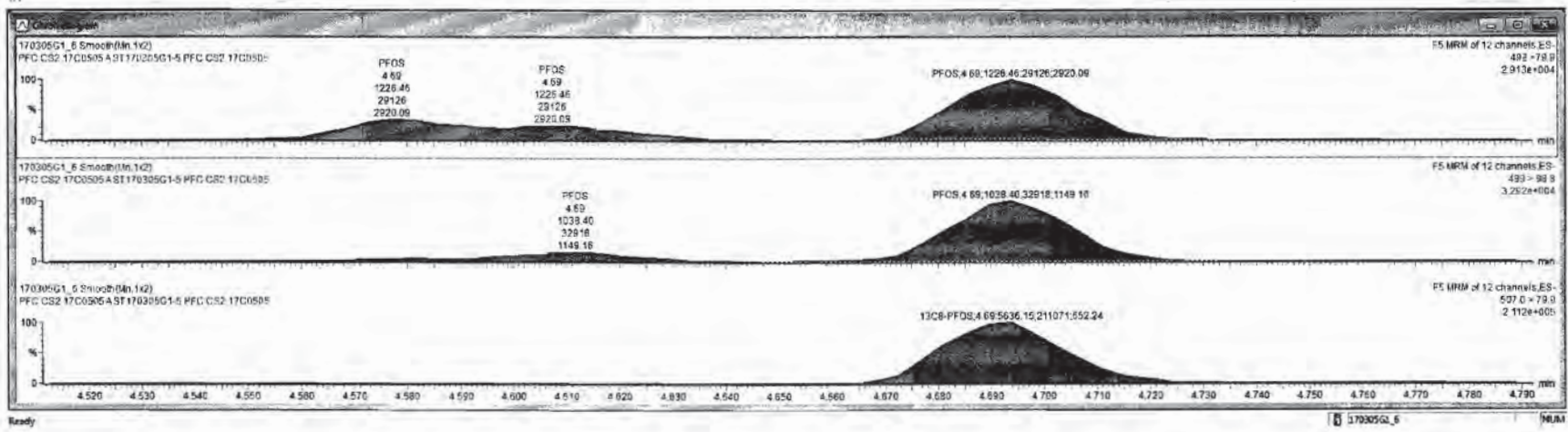


13C4-PFOS

170305G1_6



Name	Trace	Area	RRF	WtWtL	Pred RT	RT	Conc	MSDL	%RSD	DL		
1	PFBS	299.7	5.91e3	1.000	3.43	3.03	4.58	NO	81.4			
2	PFHxA	383.3	1.96e4	1.000	3.91	3.51	4.78	NO	95.6			
3	PFHxS	398.9	5.17e3	1.000	4.62	4.23	4.60	YES	92.0			
4	PFOA	413.3	1.24e4	1.000	4.30	4.30	5.43	YES	108.5			
5	PFNA	463.3	7.77e3	1.000	4.63	4.63	4.71	YES	94.2			
6	PFOS	499.7	1.23e3	1.000	4.70	4.69	5.14	YES	102.8	0.0099192		
7	13C3-PFBS	302.0	6.73e3	0.419	1.000	3.83	3.03	11.9	NO	95.3	0.0142443	
8	13C4-PFHxA	367.2	3.21e3	1.10	1.000	3.30	3.91	12.9	NO	103.0	0.0102754	
9	18O2-PFHxS	403.3	1.62e3	0.434	1.000	4.82	4.22	12.8	NO	102.2	0.0034349	
10	13C2-PFOA	414.9	3.99e3	3.46e4	4.61	1.000	4.30	11.9	NO	95.4	0.0048755	
11	13C5-PFNA	468.2	4.22e3	7.48e3	0.867	1.000	4.63	12.5	NO	100.0	0.0007499	
12	13C6-PFOS	507.0	7.9.9	5.64e3	0.958	1.000	4.69	4.69	11.7	NO	93.2	0.0435814
13	13C5-PFHxA	218.2	272.9	3.10e4	1.00	1.000	3.20	3.41	12.5	NO	100.0	0.0026795
14	13C3-PFHxS	401.9	7.9.9	1.72e4	1.80	1.000	3.94	4.22	12.5	NO	100.0	0.0076773
15	13C5-PFOA	421.3	3.76	7.88e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0007688
16	13C3-PFNA	472.2	4.26.8	8.62e3	1.80	1.000	4.56	4.63	12.5	NO	100.0	0.0006215
17	13C4-PFOS	503.0	7.9.9	6.31e3	1.80	1.000	4.67	4.69	12.5	NO	100.0	0.0163574
18	Total PFBS	299.7	5.91e3		1.000	3.11		4.58	NO			
19	Total PFHxS	398.9	5.17e3		1.000	4.91		5.37	NO			
20	Total PFOA	413.3	1.25e4		1.000	4.39		5.43	NO			
21	Total PFOS	499.7	1.67e3		1.000	4.67		7.17	NO		0.0099192	



Dataset: Untitled

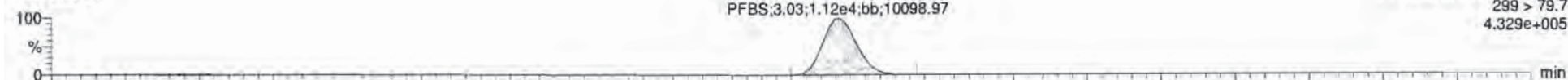
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

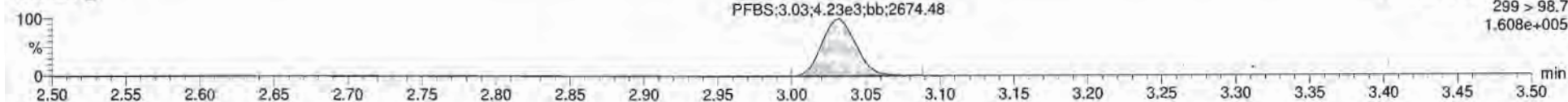
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PFBS

170305G1_7

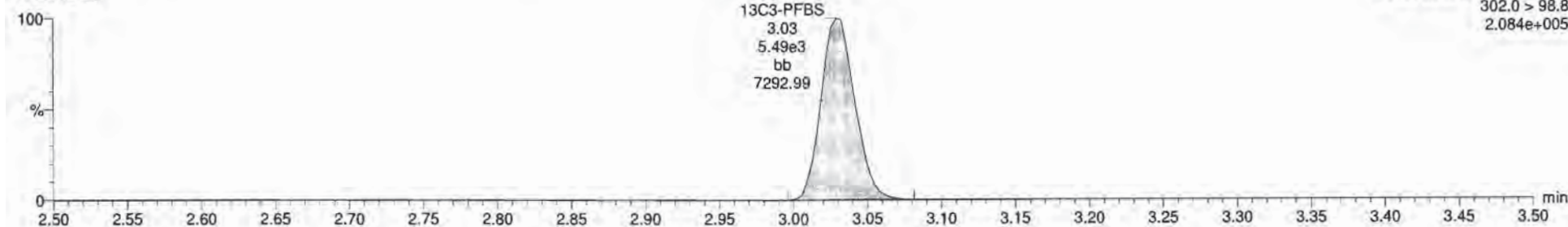


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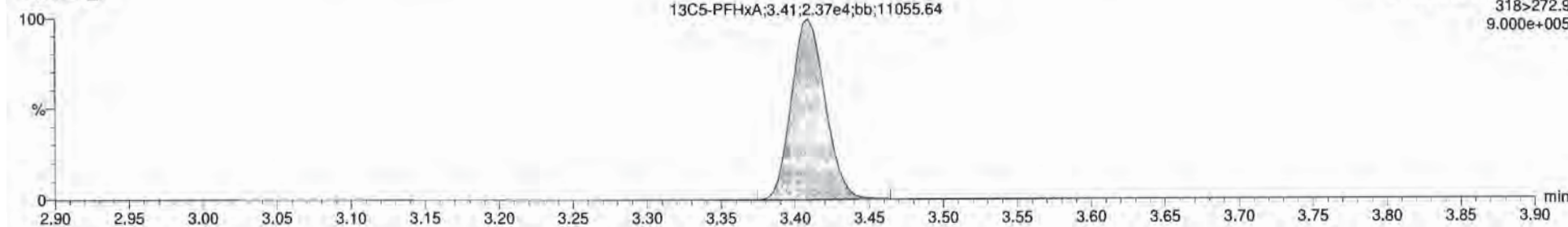
13C3-PFBS

170305G1_7



13C5-PFHxA

170305G1_7

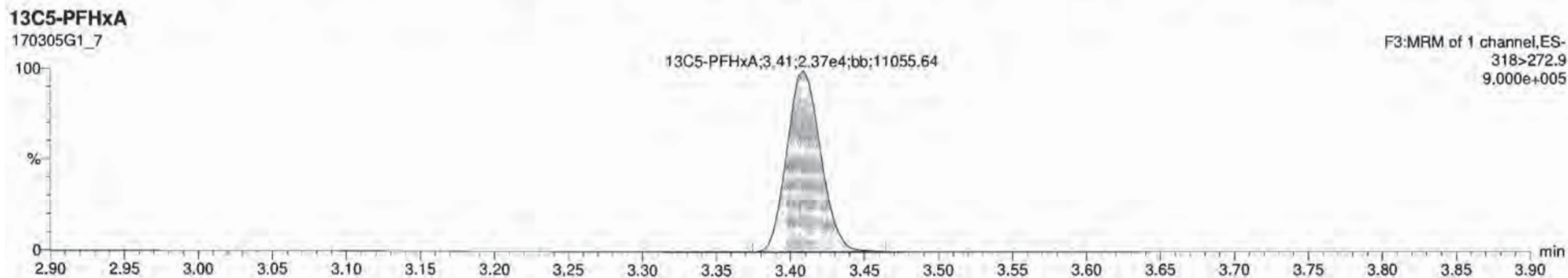
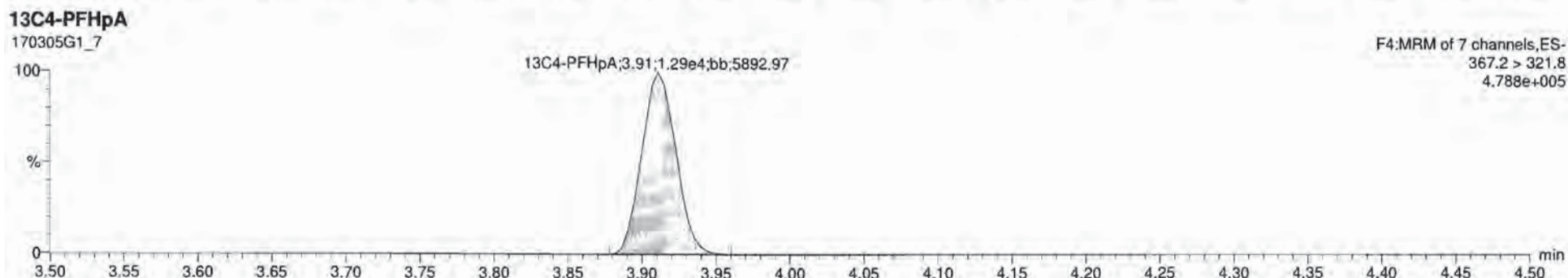
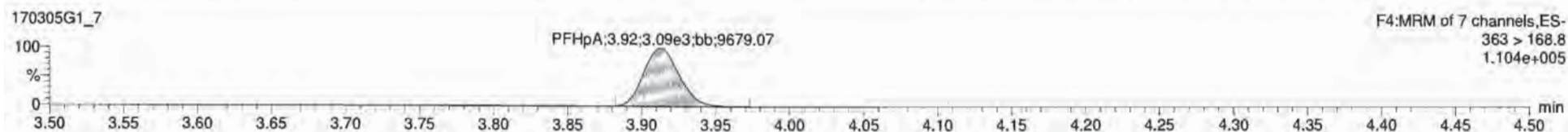
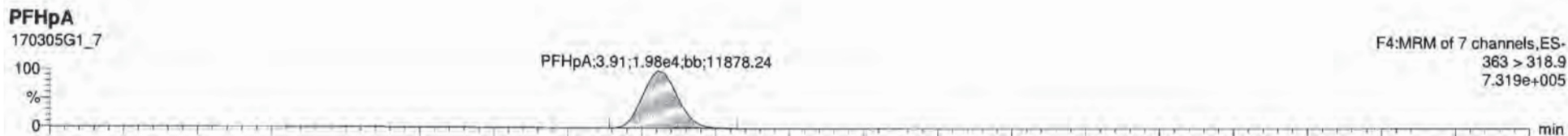


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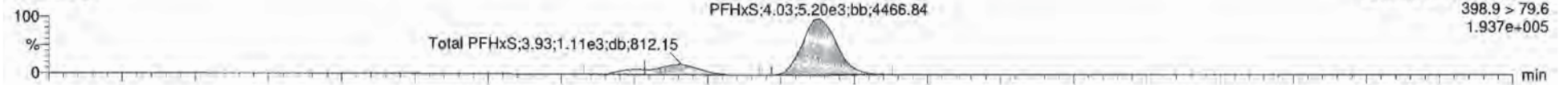
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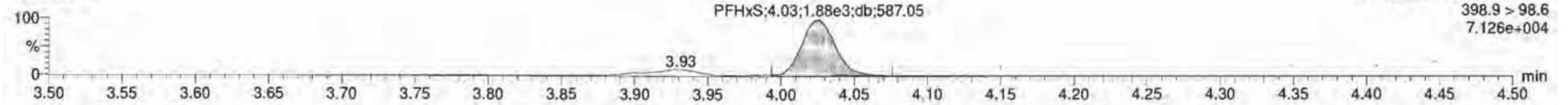
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Total PFHxS

170305G1_7

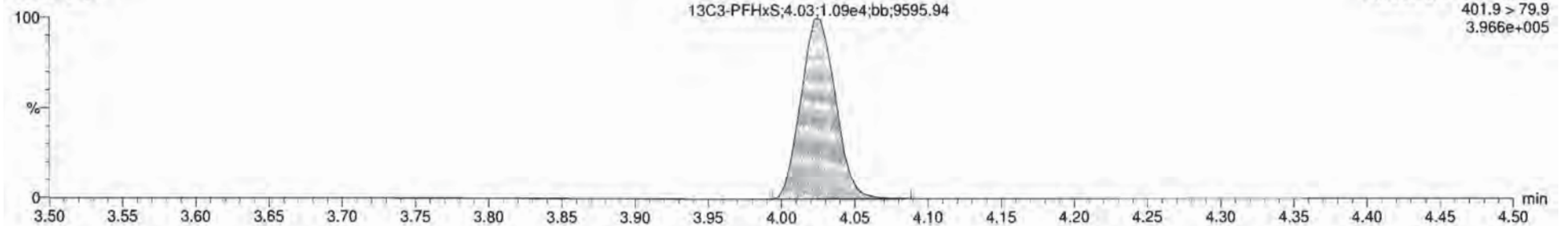


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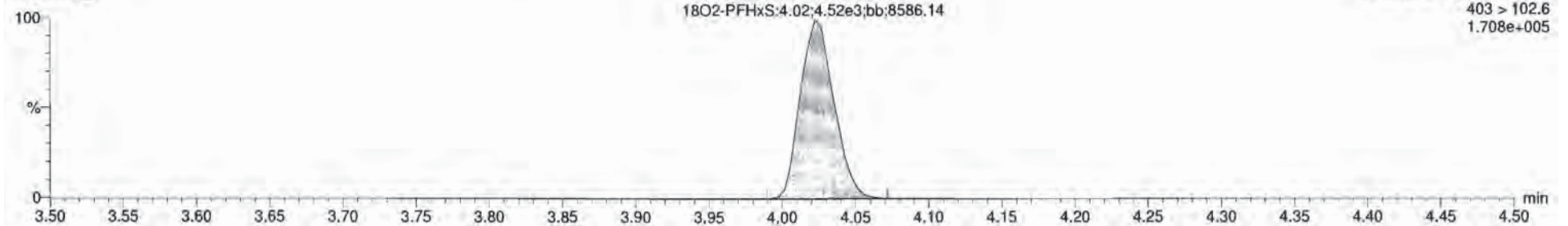
13C3-PFHxS

170305G1_7



18O2-PFHxS

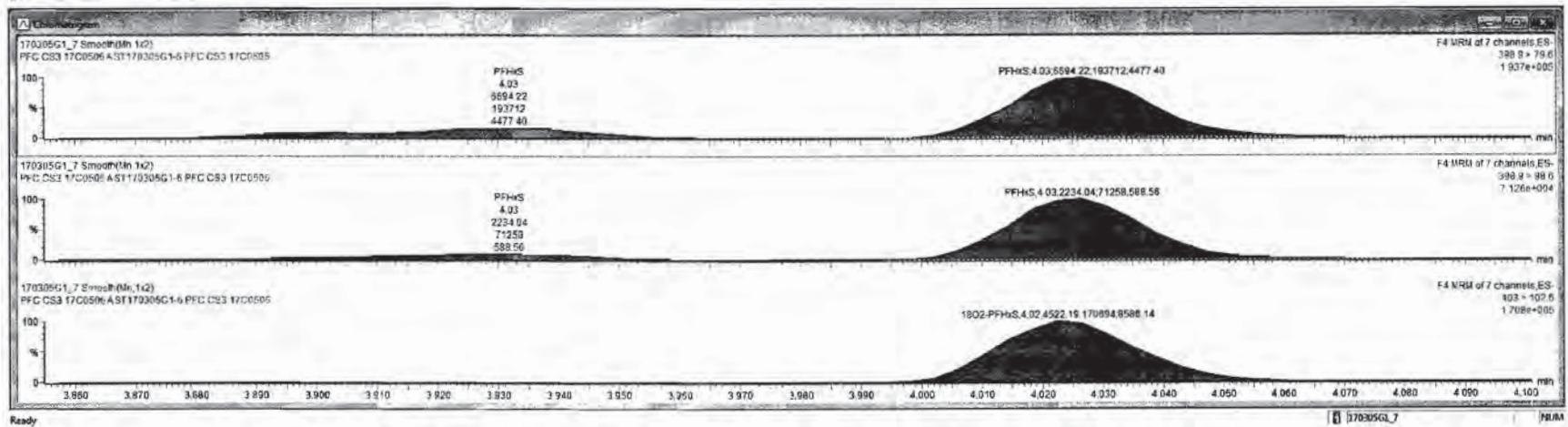
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170305G1_7 ST170305G1-6 PFC CS3 17C0506 PFC CS3 17C0506 A

#	Name	Trics	Area	RP	RP/HL	Pre RT	RT	Carb	MBL	NMR	DL
1	PFBS	299 > 79.7	1.12e4		1.000	3.83	3.83	10.7	YES	187.2	
2	PFHxA	383 > 318.9	1.96e4		1.000	3.91	3.91	10.6	YES	106.4	
3	PFHxS	398.9 > 79.8	8.09e3		1.000	4.02	4.03	10.1	YES	103.5	
4	PFOA	413 > 368.7	1.56e4		1.000	4.30	4.30	11.0	YES	109.8	
5	PFNA	483 > 415.8	7.05e3		1.000	4.63	4.63	11.1	YES	111.4	
6	PFOS	499 > 79.9	0.69e2		1.000	4.70	4.69	10.7	YES	187.1	0.1341527
7	13C-PFBS	302.0 > 98.8	5.48e3	0.410	1.000	3.83	3.83	15.4	NO	123.0	0.0054942
8	13C-PFHxA	367.2 > 321.6	1.29e4	1.19	1.000	3.90	3.91	13.4	NO	187.6	0.0058321
9	18O2-PFHxS	403 > 102.6	4.53e3	0.434	1.000	4.03	4.02	12.0	NO	95.6	0.0096136
10	13C2-PFOA	414.9 > 369.7	2.10e4	4.61	1.000	4.30	4.30	13.9	NO	111.6	0.0392432
11	13C-PFNA	468.2 > 422.0	2.86e3	0.967	1.000	4.63	4.63	11.7	NO	94.0	0.0018287
12	13C-PFOS	507.0 > 79.9	1.69e3	0.950	1.000	4.69	4.69	14.1	NO	112.0	0.0197687
13	13C-PFHxA	318 > 272.9	2.37e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0028296
14	13C-PFHxS	401.6 > 79.3	1.09e4	1.00	1.000	3.94	4.03	12.5	NO	100.0	0.0032506
15	13C-PFOA	421.3 > 376	4.25e4	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0088705
16	13C-PFNA	472.2 > 426.9	3.54e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0089893
17	13C-PFOS	503.0 > 79.9	1.74e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.1820576
18	Total PFBS	299 > 79.7	1.12e4		1.000	3.11					
19	Total PFHxS	398.9 > 79.8	8.14e3		1.000	4.09					
20	Total PFOA	413 > 368.7	1.57e4		1.000	4.39					
21	Total PFOS	499 > 79.9	1.01e3		1.000	4.67					0.1341527



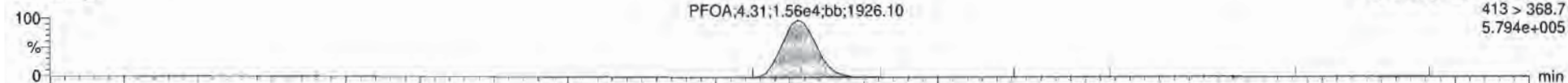
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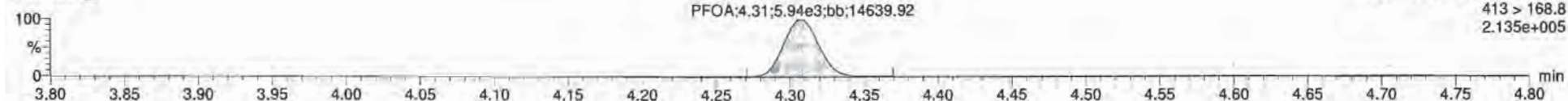
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Total PFOA

170305G1_7

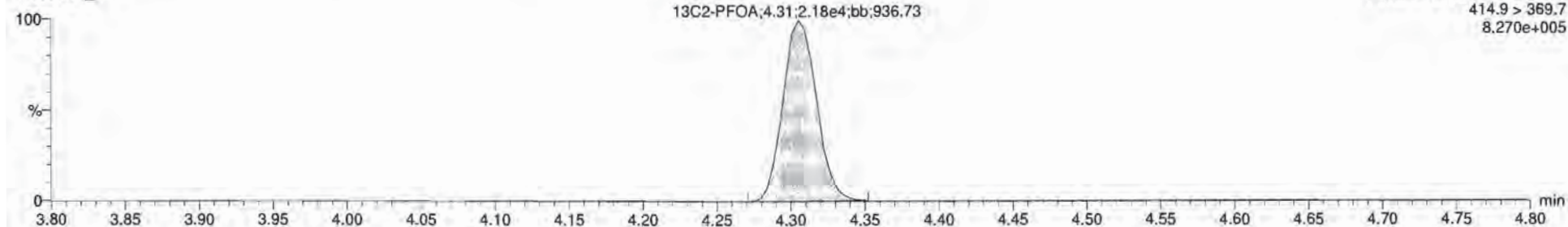


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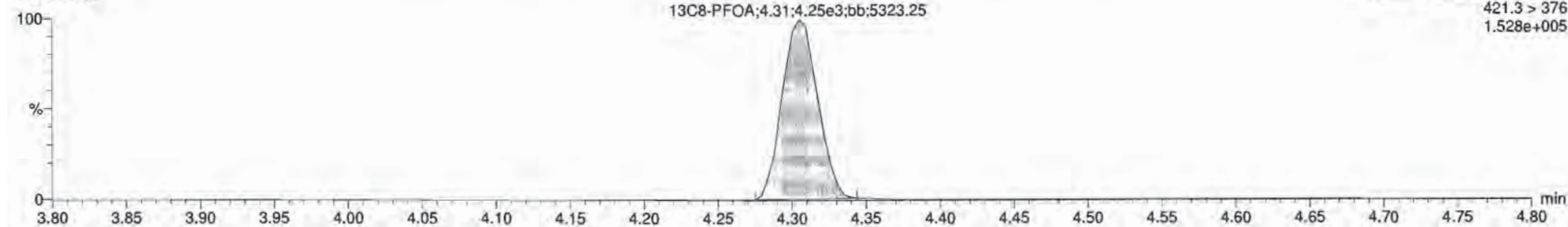
13C2-PFOA

170305G1_7



13C8-PFOA

170305G1_7



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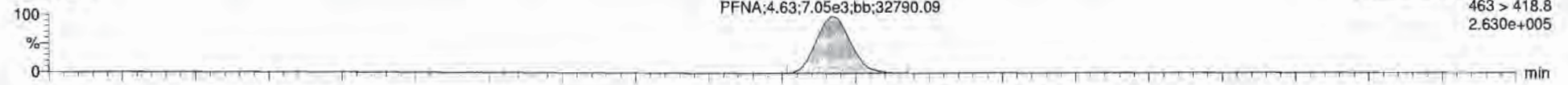
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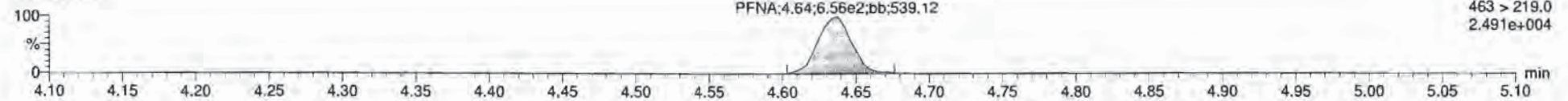
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PFNA

170305G1_7

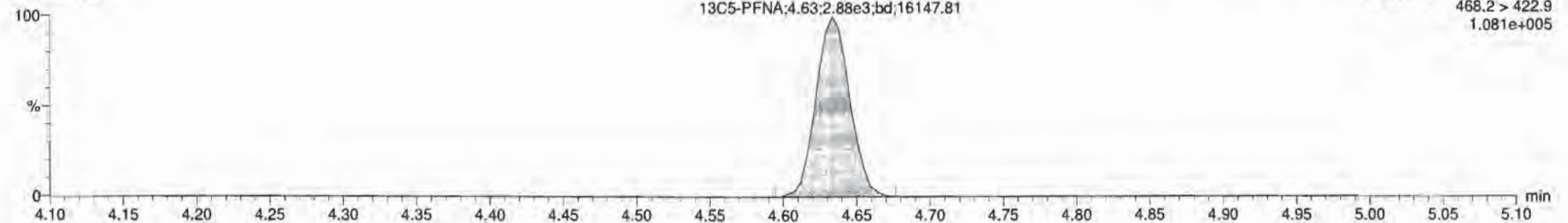


170305G1_7



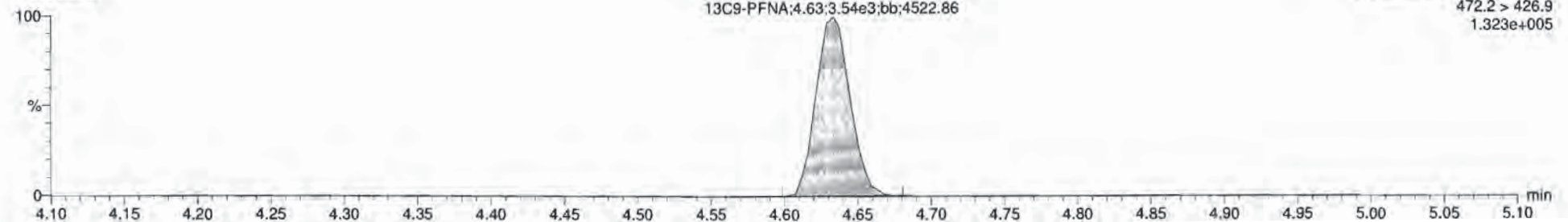
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170305G1_7



13C9-PFNA

170305G1_7



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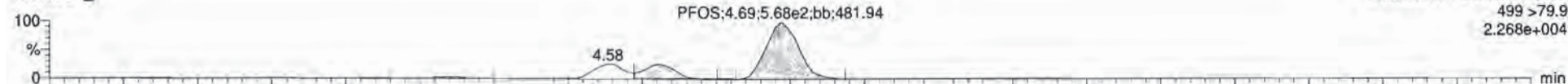
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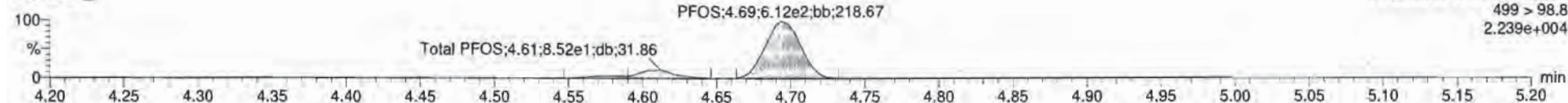
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Total PFOS

170305G1_7

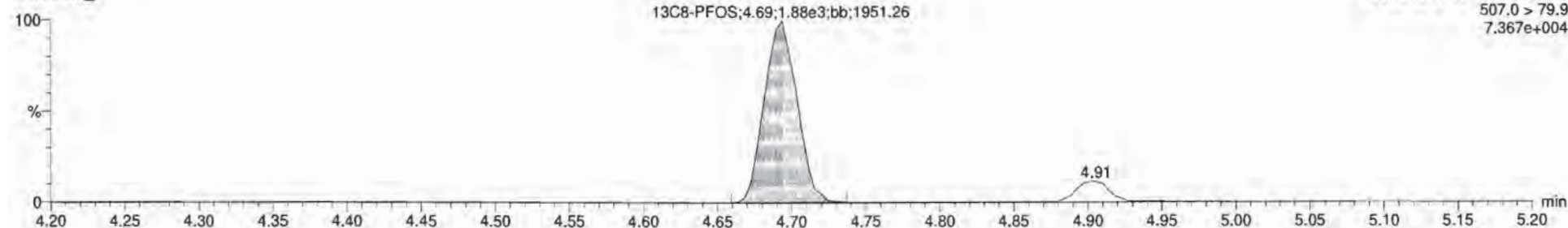


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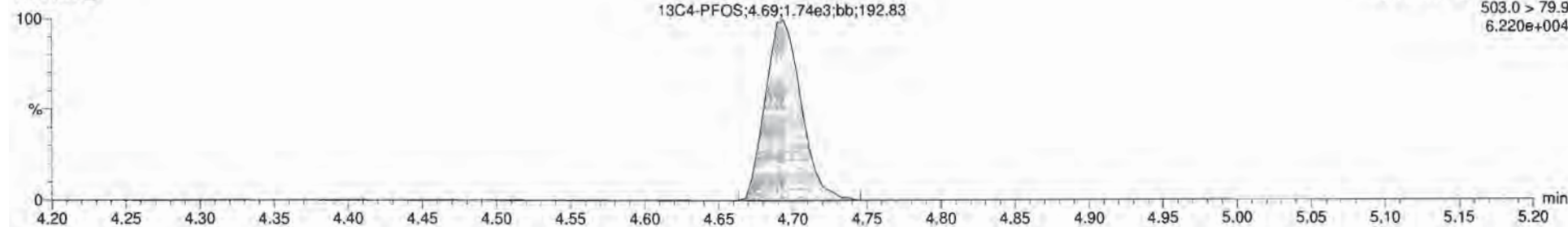
13C8-PFOS

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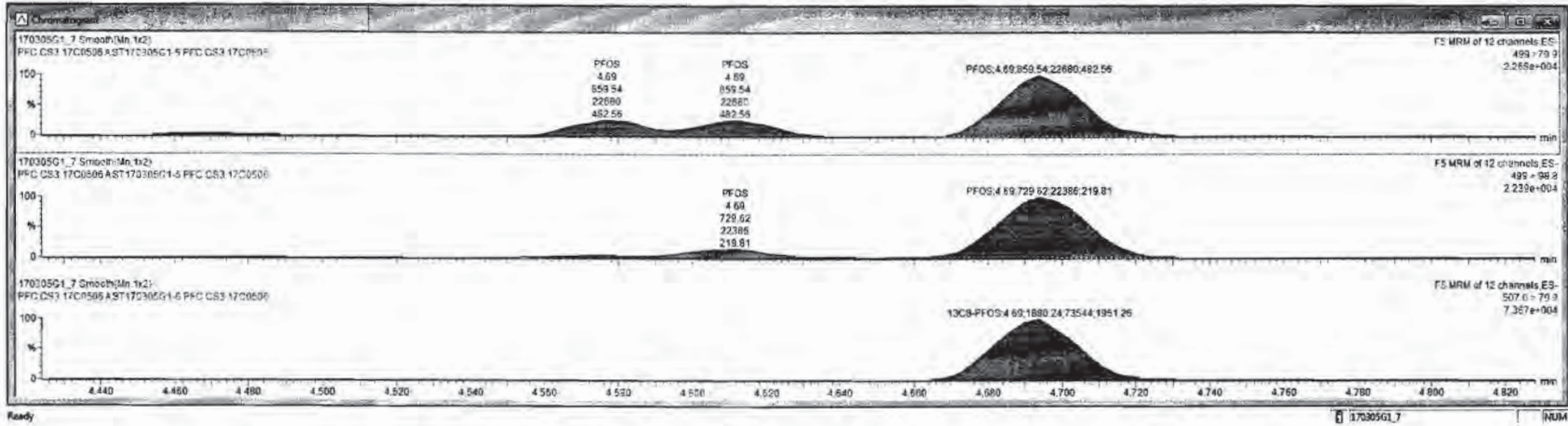
13C4-PFOS

170305G1_7



17030501_7 - ST170305G1-6 PFC CS3 17C0506 - PFC CS3 17C0509 A

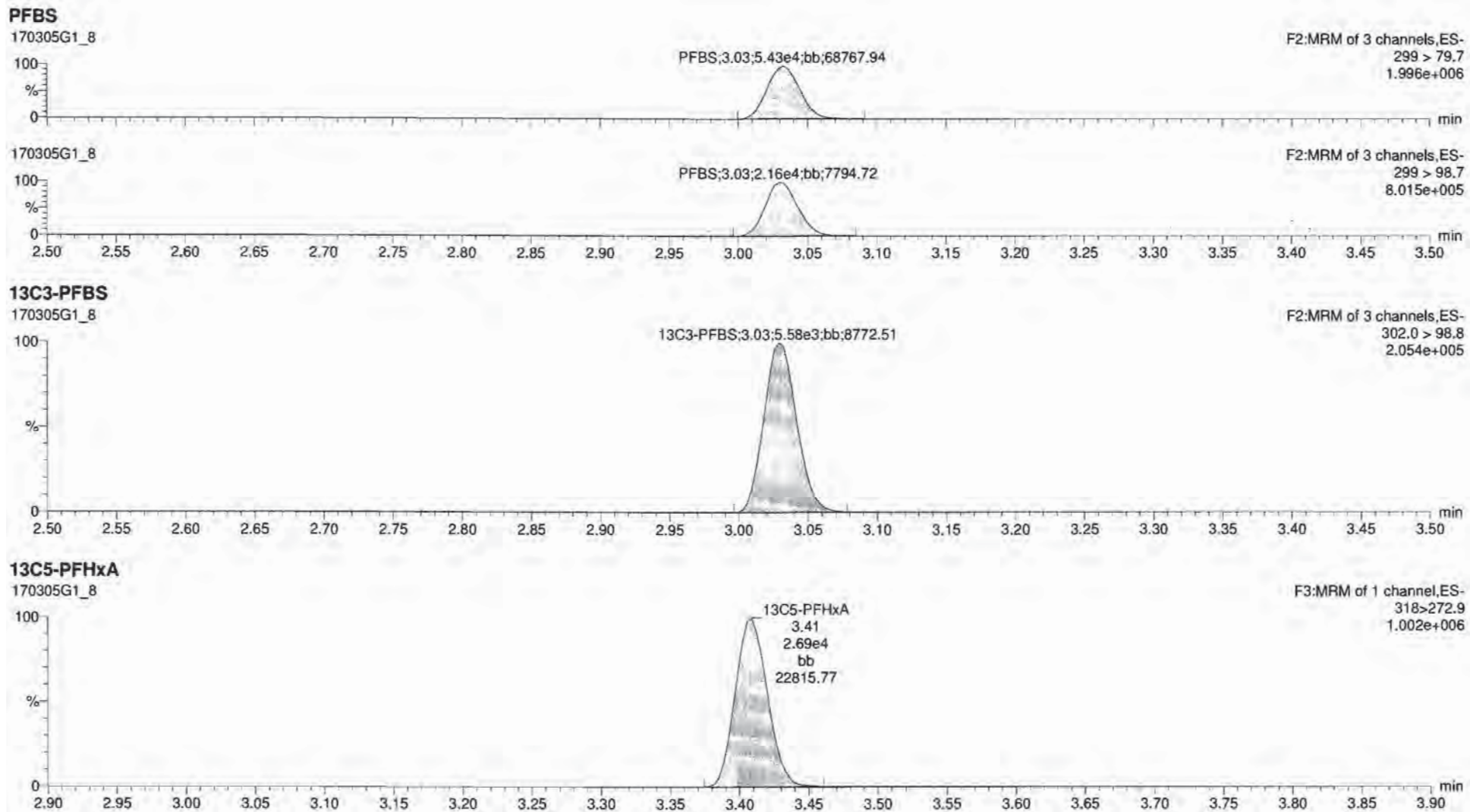
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1	PFBS	299 > 79.7	1.12e4		1.000	3.03	3.03	10.7	YES	107.2	0.0000000
2	PFHxA	363 > 318.9	1.96e4		1.000	3.91	3.91	10.6	YES	106.4	0.0000000
3	PFHxS	389.9 > 79.5	6.69e3		1.000	4.02	4.03	16.1	YES	101.5	0.0000000
4	PFOA	413 > 368.7	1.56e4		1.000	4.30	4.30	11.0	YES	109.3	0.0000000
5	PFNA	463 > 418.0	7.05e3		1.000	4.63	4.63	11.1	YES	111.4	0.0000000
6	PFOS	489 > 79.9	8.69e3		1.000	4.89	4.89	16.9	YES	109.4	0.1024218
7	13C3-PFBS	362.0 > 98.8	5.49e3	0.410	1.000	3.03	3.03	16.4	NO	123.0	0.0054942
8	13C4-PFHpA	367.2 > 321.8	1.29e4	1.10	1.000	3.90	3.91	19.4	NO	107.6	0.0053231
9	18O2-PFHxS	403 > 102.6	4.52e3	0.434	1.000	4.03	4.02	12.0	NO	95.9	0.0038126
10	13C2-PFOA	414.8 > 369.7	2.16e4	4.61	1.000	4.30	4.30	13.9	NO	111.6	0.0322472
11	13C3-PFNA	466.2 > 422.9	2.86e3	0.867	1.000	4.63	4.63	11.7	NO	94.0	0.0018267
12	13C4-PFOS	507.5 > 79.9	1.88e3	0.958	1.000	4.69	4.69	14.1	NO	112.8	0.0197067
13	13C5-PFHxS	312 > 272.9	2.37e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0028266
14	13C3-PFHxS	461.8 > 79.9	1.08e4	1.00	1.000	3.94	4.03	12.1	NO	100.0	0.0012560
15	13C6-PFOA	421.3 > 378	4.25e3	1.00	1.000	4.22	4.36	12.5	NO	106.0	0.0048700
16	13C9-PFNA	472.2 > 425.9	3.54e3	1.00	1.000	4.56	4.63	12.5	NO	106.0	0.0059093
17	13C4-PFOS	503.0 > 79.9	1.74e3	1.00	1.000	4.67	4.69	12.5	NO	106.0	0.0020578
18	Total PFBS	299 > 79.7	1.12e4		1.000	3.11	10.7		NO		
19	Total PFHxS	389.9 > 79.5	6.14e3		1.000	4.09	12.2		NO		
20	Total PFOA	413 > 368.7	1.57e4		1.000	4.39	11.0		NO		
21	Total PFOS	489 > 79.9	1.91e3		1.000	4.67	13.0		NO		0.1024218



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Last Altered: Monday, March 06, 2017 08:36:20 Pacific Standard Time
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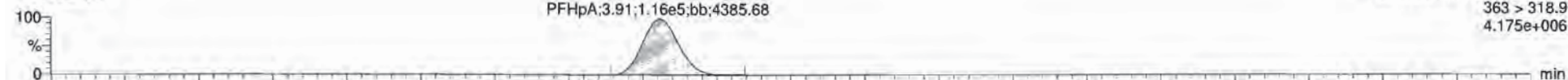
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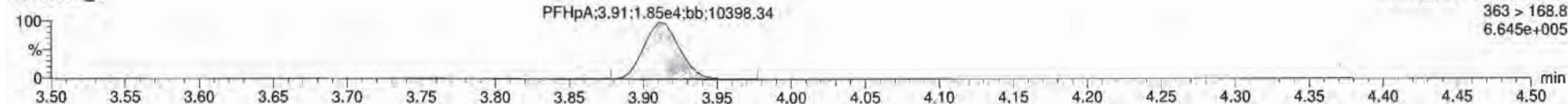
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PFHpA

170305G1_8

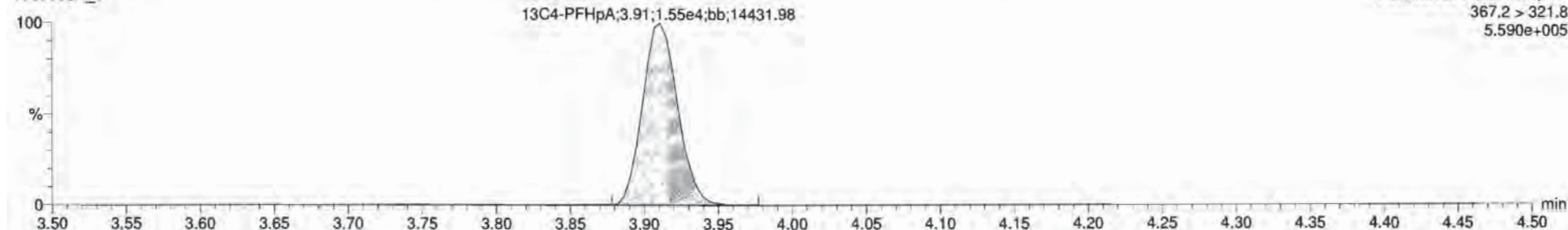


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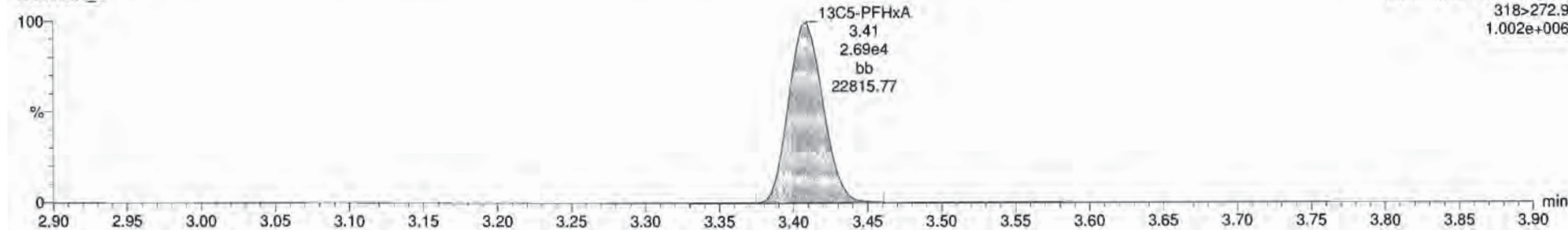
13C4-PFHpA

170305G1_8



13C5-PFHxA

170305G1_8



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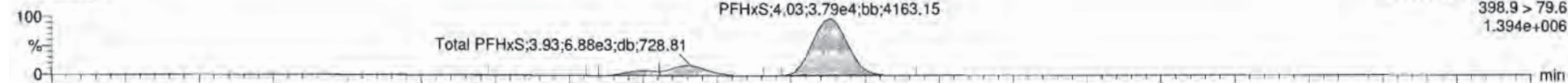
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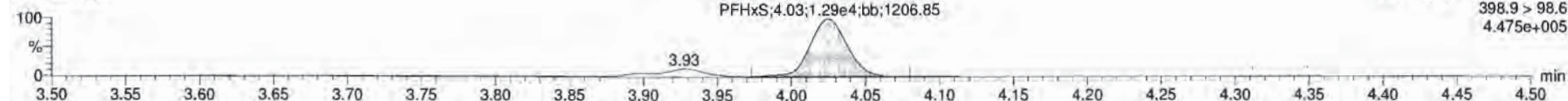
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Total PFHxS

170305G1_8

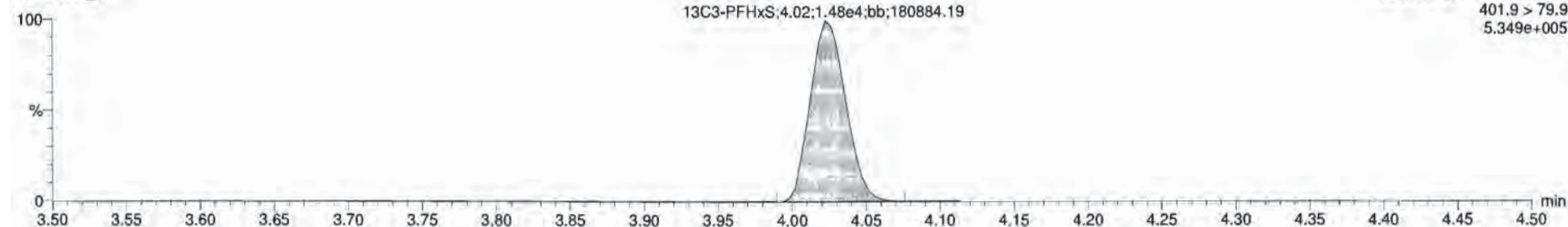


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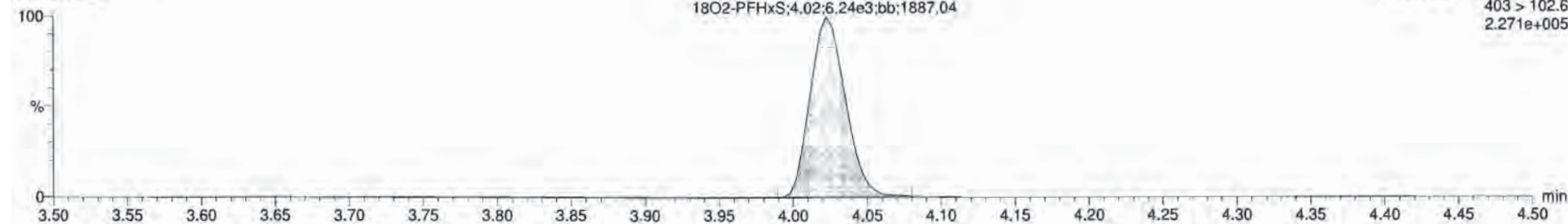
13C3-PFHxS

170305G1_8

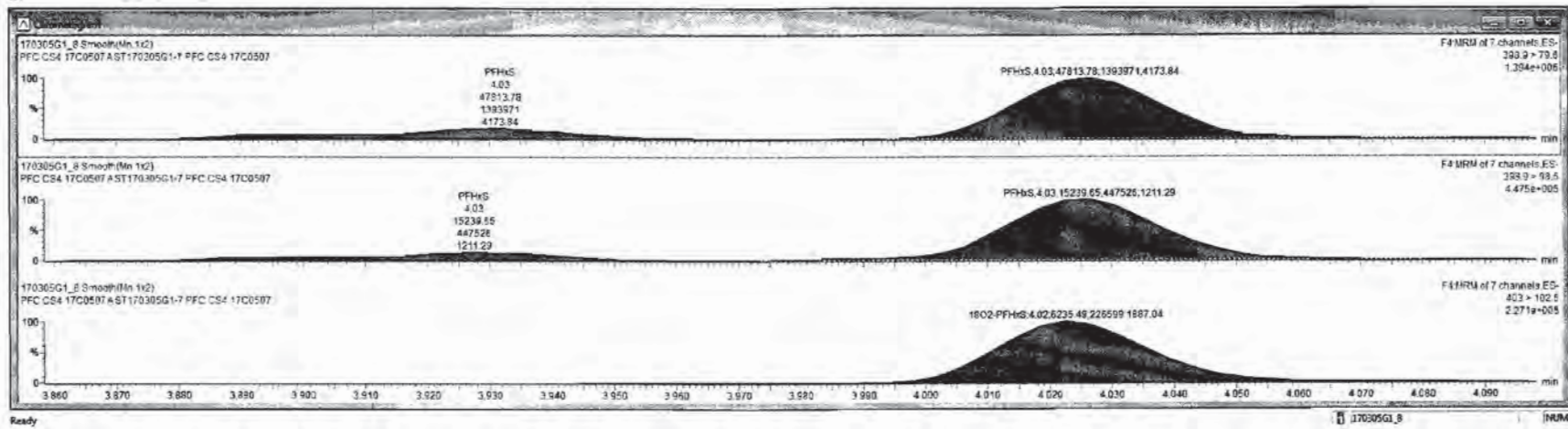


18O2-PFHxS

170305G1_8



Name	Trace	Area	WVAL	ProdRT	RT	Conc	MISC	NMR	DL	
PFBS	299 > 79.7	5.43e4	1.000	3.03	3.03	31.1	YES	102.1	0.0000000	
PFPeA	363 > 318.9	1.10e5	1.000	3.91	3.91	51.9	YES	103.8	0.0000000	
PFHxS	398.9 > 79.9	4.78e4	1.000	4.03	4.03	53.8	YES	105.6	0.0000000	
PFDA	413 > 368.7	1.10e5	1.000	4.30	4.30	52.3	YES	104.9	0.0000000	
PFNA	453 > 418.8	7.41e4	1.000	4.63	4.63	52.1	YES	104.1	0.0000000	
PFOS	499 > 79.9	1.04e4	1.000	4.69	4.69	48.3	YES	96.6	0.1281301	
13CL-PFBS	302.0 > 95.8	5.58e3	0.410	1.000	3.03	3.03	11.5	NO	89.1	0.0033337
13CL-PFPeA	367.2 > 321.8	1.55e4	1.10	1.000	3.90	3.91	11.9	NO	55.6	0.0020612
18O2-PFHxS	403 > 182.6	6.24e3	0.434	1.000	4.02	4.02	12.1	NO	87.2	0.0161792
13C2-PFDA	414.9 > 369.7	3.30e4	4.61	1.000	4.30	4.33	12.3	NO	86.2	0.0024228
13C2-PFNA	458.2 > 422.9	6.50e3	0.867	1.000	4.63	4.63	12.3	NO	88.7	0.0031015
13C2-PFOS	507.0 > 79.9	5.14e3	0.958	1.000	4.69	4.69	13.1	NO	104.4	0.0094134
13C2-PFHxS	318.272.9	2.89e4	1.00	1.000	3.29	3.41	12.5	NO	105.0	0.0015897
13C2-PFPeA	401.9 > 79.9	1.48e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0001726
13C2-PFDA	421.2 > 376	7.29e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.00034967
13C2-PFNA	472.2 > 426.9	7.60e3	1.00	1.000	4.50	4.63	12.5	NO	100.0	0.0166538
13C2-PFOS	503.0 > 79.9	5.13e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0010306
Total PFBS	299 > 79.7	5.43e4		1.000	3.11					
Total PFHxS	398.9 > 79.6	5.73e4		1.000	4.69					
Total PFDA	413 > 368.7	1.10e5		1.000	4.39					
Total PFOS	499 > 79.9	1.33e4		1.000	4.67					



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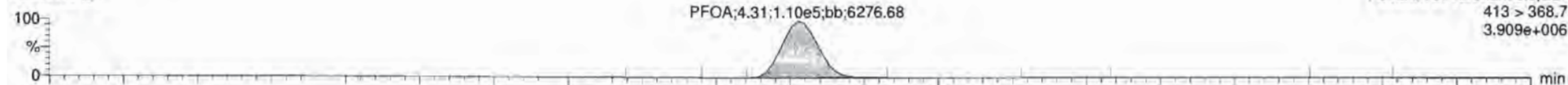
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Printed: Monday, March 06, 2017 08:37:19 Pacific Standard Time

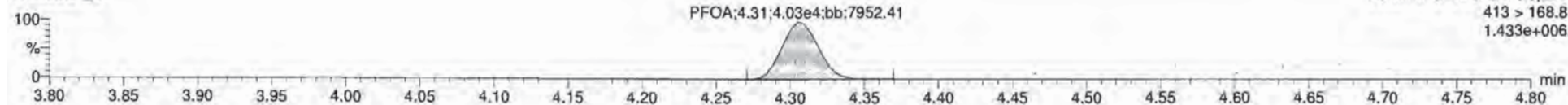
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Total PFOA

170305G1_8

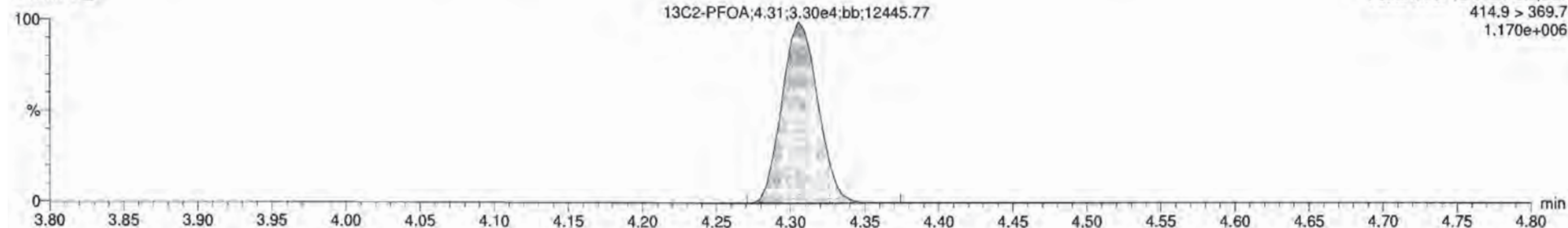


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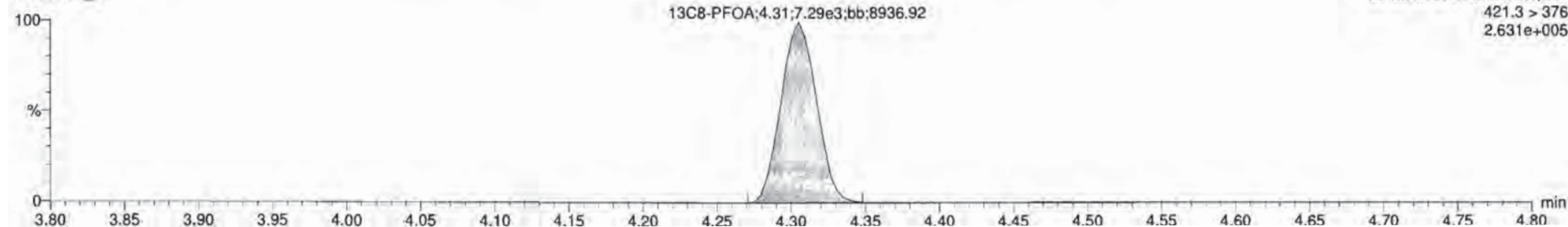
13C2-PFOA

170305G1_8



13C8-PFOA

170305G1_8



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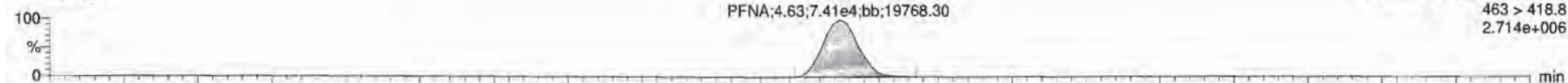
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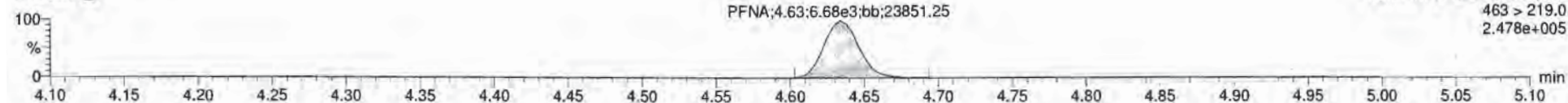
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170305G1_8

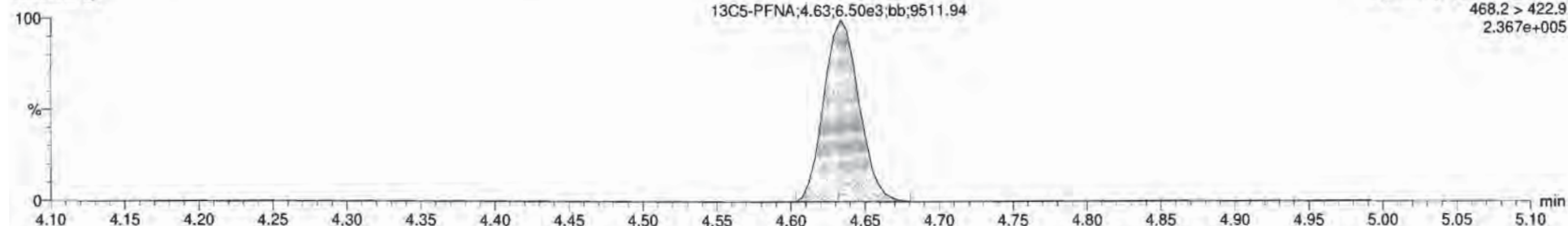


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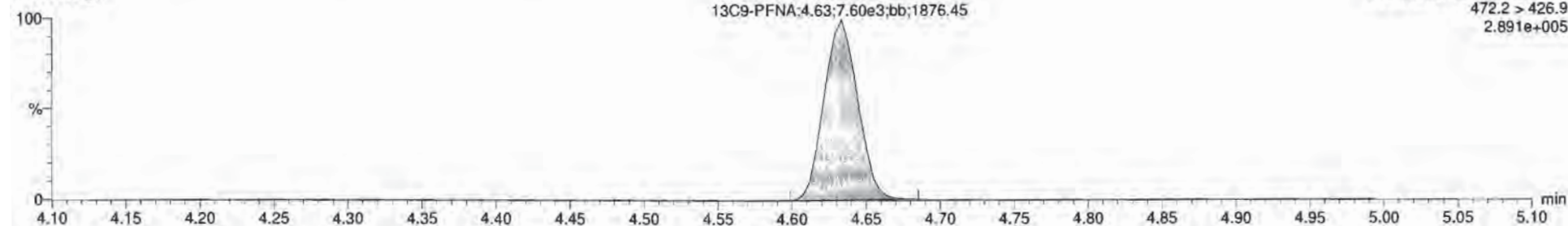
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13C9-PFNA

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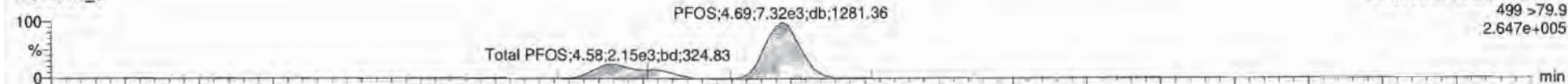
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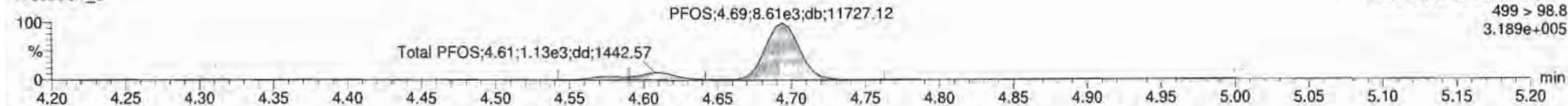
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Total PFOS

170305G1_8

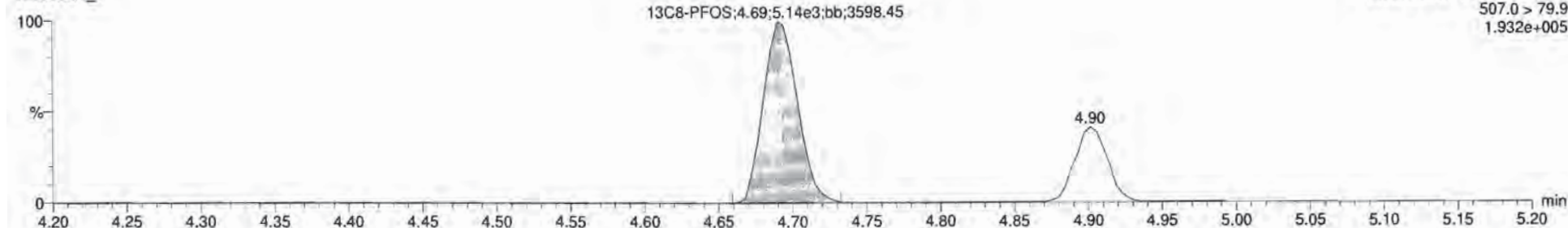


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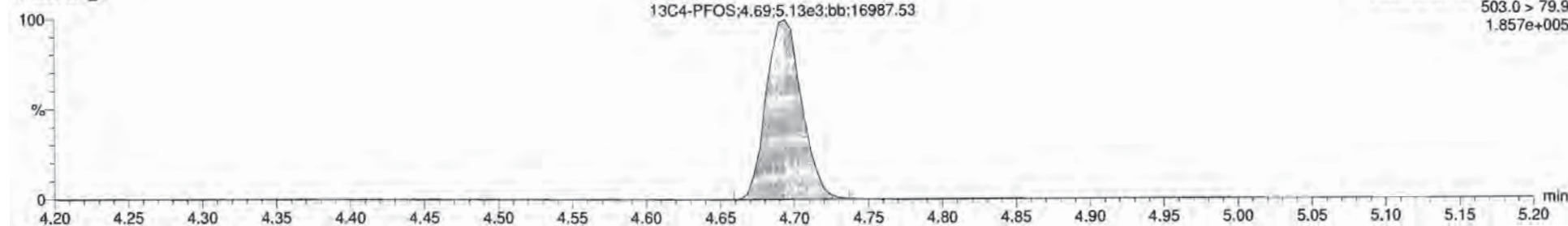
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170305G1_8



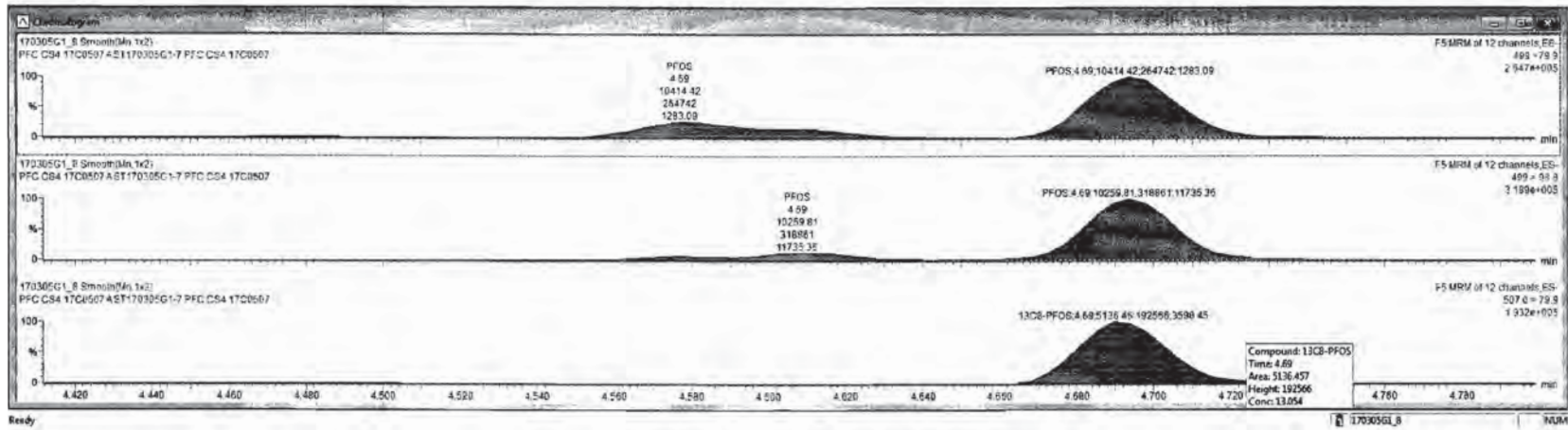
13C4-PFOS

170305G1_8



Targetlyn 1703051
 File Edit View Display Processing Window Help
 17030501_8 - ST17030501-7 PFC CS4 17C0507 - PFC CS4 17C0507 A

ID	Name	Trace	Area	WDF	PFNA	PFNA RT	RT	Conc	>MQL	NRec	EA
1	PFBS	296 > 79.7	5.43e4		1.000	3.03	3.03	51.1	YES	162.1	0.0000000
2	PFHxA	362 > 318.8	1.16e5		1.000	3.91	3.91	51.9	YES	103.0	0.0000000
3	PFHxS	398.9 > 79.6	4.75e4		1.000	4.02	4.02	52.0	YES	105.6	0.0000000
4	PFOA	413 > 368.7	1.10e5		1.000	4.30	4.30	52.3	YES	104.6	0.0000000
5	PFNA	463 > 418.8	7.41e4		1.000	4.63	4.63	52.1	YES	104.1	0.0000000
6	PFOS	499 > 79.9	1.04e4		1.000	4.69	4.69	48.3	YES	96.8	0.1281301
7	13CB-PFBS	302.0 > 98.0	5.58e3	8.410	1.000	3.03	3.03	11.5	NO	82.1	0.0033337
8	13CB-PFHxA	367.2 > 321.8	1.55e4	1.10	1.000	3.90	3.91	11.9	NO	95.8	0.0020622
9	13CB-PFHxS	482 > 102.8	8.24e3	0.434	1.000	4.02	4.02	12.1	NO	97.2	0.0181782
10	13CB-PFOA	414.9 > 369.7	3.30e4	4.61	1.000	4.30	4.30	12.3	NO	98.2	0.0074278
11	13CB-PFNA	460.2 > 422.9	6.50e3	0.897	1.000	4.63	4.63	12.3	NO	95.7	0.0031011
12	13CB-PFOS	507.0 > 79.9	3.74e3	6.956	1.000	4.69	4.69	13.1	NO	104.4	0.0094134
13	13CB-PFNA	318 > 272.9	2.99e4	1.00	1.000	3.29	3.31	12.0	NO	100.0	0.0013697
14	13CB-PFHxS	481.9 > 79.9	1.45e4	1.00	1.000	3.94	4.02	12.3	NO	100.0	0.0001720
15	13CB-PFOA	421.3 > 378	7.29e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0034997
16	13CB-PFNA	472.2 > 426.9	7.60e3	1.00	1.000	4.56	4.63	12.5	NO	100.0	0.0186332
17	13CB-PFOS	503.0 > 79.9	5.13e3	1.00	1.000	4.67	4.69	12.5	NO	100.0	0.0076596
18	Total PFBS	296 > 79.7	5.43e4		1.000	3.11		51.1	NO		
19	Total PFHxS	398.9 > 79.6	5.73e4		1.000	4.09		63.2	NO		
20	Total PFOA	413 > 368.7	1.10e5		1.000	4.35		52.3	NO		
21	Total PFOS	499 > 79.9	1.33e4		1.000	4.67		62.0	NO		0.1281301



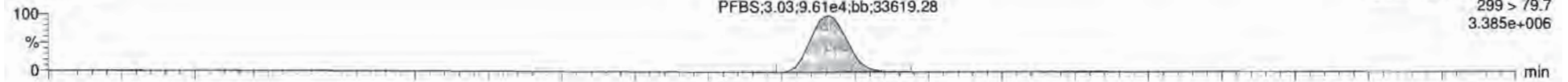
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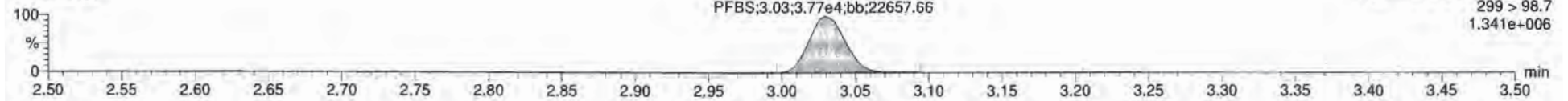
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PFBS

170305G1_9

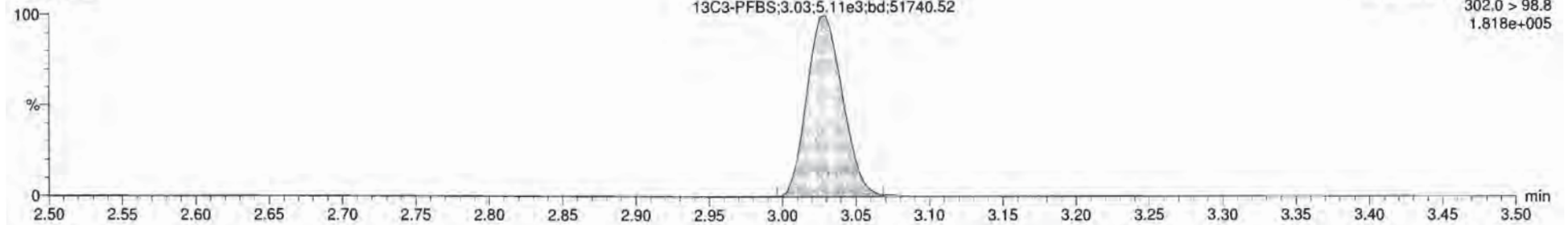


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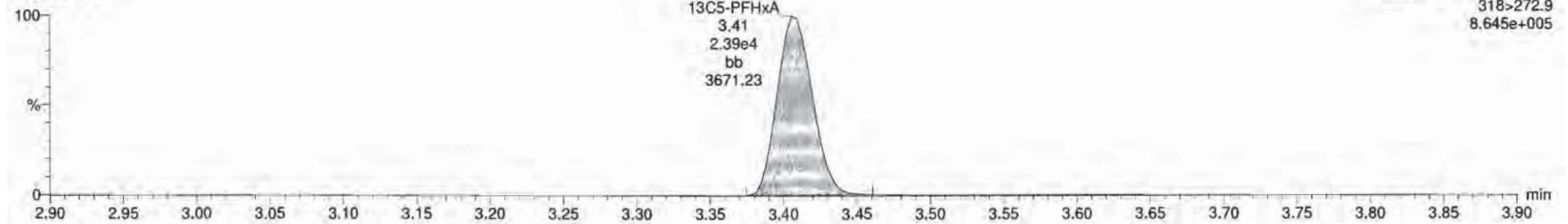
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170305G1_9



13C5-PFHxA

170305G1_9

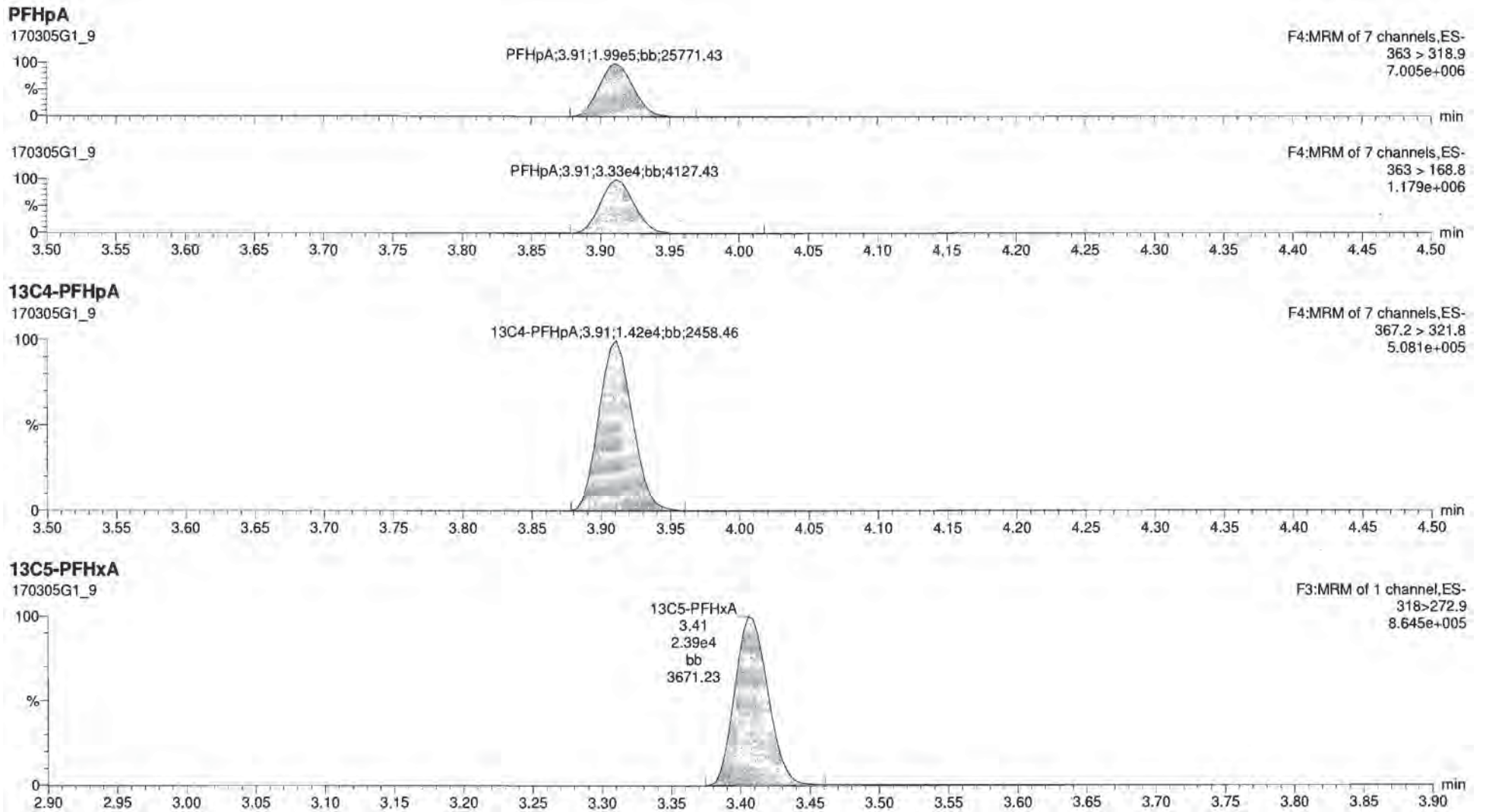


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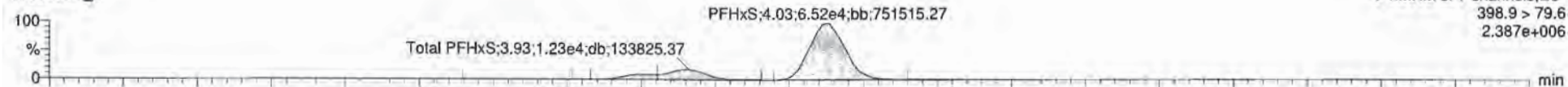
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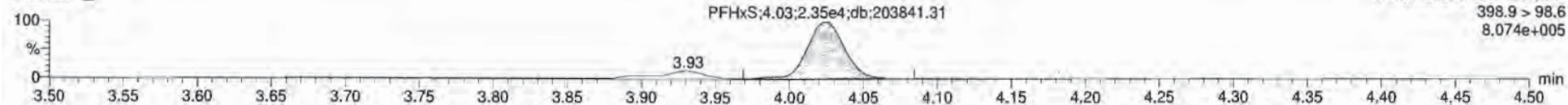
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Total PFHxS

170305G1_9

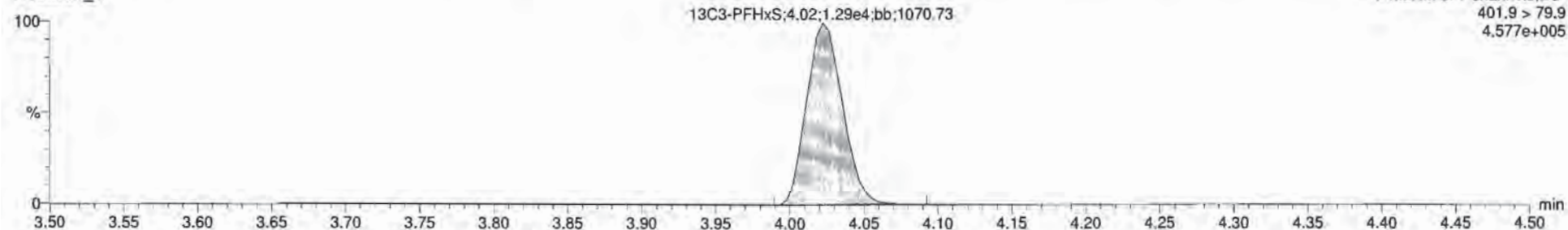


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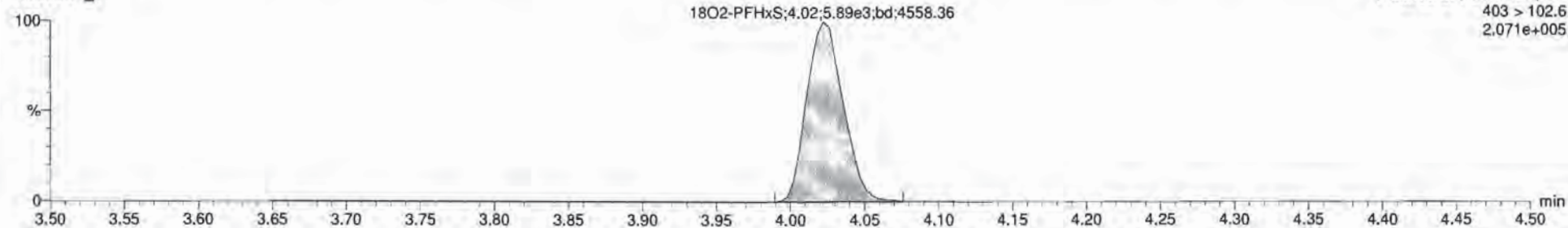
13C3-PFHxS

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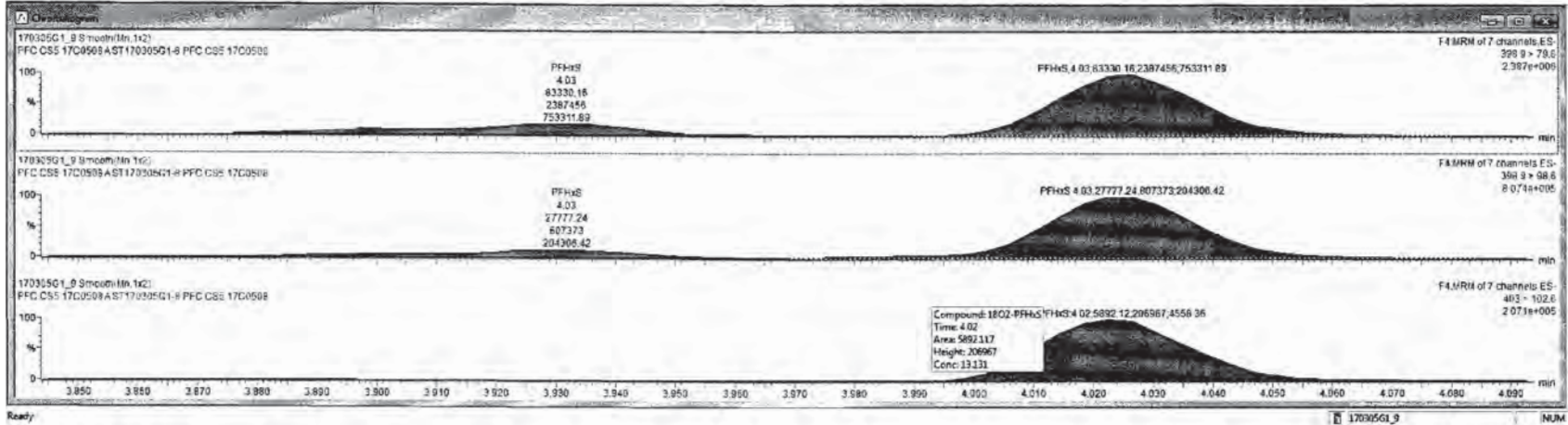


18O2-PFHxS

170305G1_9



Peak	Name	Trace	Area	WV	WVStd	Prod RT	RT	Conc	WVCL	WVRec	DL
1	PFBS	299 > 79.7	9.81e4		1.000	3.03	3.03	88.6	YES	98.8	0.0000000
2	PFHpA	363 > 318.9	1.99e5		1.000	3.81	3.91	97.6	YES	97.6	0.0000000
3	PFHxS	355.9 > 79.8	6.33e4		1.000	4.02	4.03	97.4	YES	97.4	0.0000000
4	PFDA	413 > 368.7	1.88e5		1.000	4.38	4.30	96.4	YES	96.4	0.0000000
5	PFNA	463 > 418.8	1.56e5		1.000	4.83	4.63	97.1	YES	97.1	0.0000000
6	PFOS	499 > 79.9	2.64e4		1.000	4.78	4.69	100	YES	100.0	0.0986692
7	13C3-PFBS	302.0 > 98.8	5.11e3	0.410	1.000	3.02	3.03	12.1	NO	96.5	0.007023
8	13C4-PFHpA	367.2 > 321.8	1.42e4	1.10	1.000	3.90	3.91	12.9	NO	99.8	0.0154078
9	18O2-PFHxS	403 > 102.6	5.79e3	0.434	1.000	4.02	4.02	13.1	NO	100.0	0.0685761
10	13C2-PFDA	414.8 > 369.7	3.22e4	4.81	1.000	4.38	4.30	13.3	NO	100.0	0.0220827
11	13C2-PFNA	468.2 > 422.9	7.35e3	0.887	1.000	4.83	4.63	12.4	NO	99.5	0.0113263
12	13C6-PFOS	507.8 > 79.9	8.36e3	0.958	1.000	4.69	4.69	12.7	NO	101.2	0.0396329
13	13C5-PFHxS	318 > 72.9	2.39e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0102146
14	13C3-PFHxS	401.9 > 79.9	1.79e4	1.88	1.000	3.94	4.02	12.5	NO	100.0	0.0362271
15	13C6-PFDA	421.3 > 378	8.59e3	1.06	1.000	4.22	4.30	12.5	NO	100.0	0.0164898
16	13C8-PFNA	472.2 > 426.9	8.52e3	1.09	1.000	4.56	4.63	12.5	NO	100.0	0.0039269
17	13C4-PFOS	503.8 > 79.9	8.45e3	1.08	1.000	4.67	4.68	12.5	NO	100.0	0.0016940
18	Total PFBS	299 > 79.7	9.81e4		1.000	3.11		98.6	NO		0.0000000
19	Total PFHxS	355.9 > 79.6	1.01e5		1.000	4.09		110	NO		0.0000000
20	Total PFDA	413 > 368.7	1.88e5		1.000	4.39		96.4	NO		0.0000000
21	Total PFOS	499 > 79.9	3.55e4		1.000	4.67		135	NO		0.0986692



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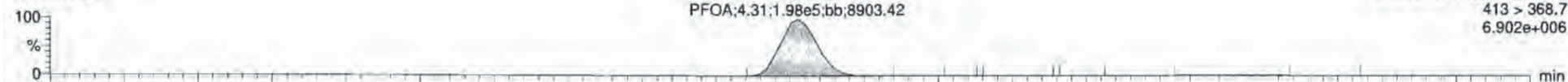
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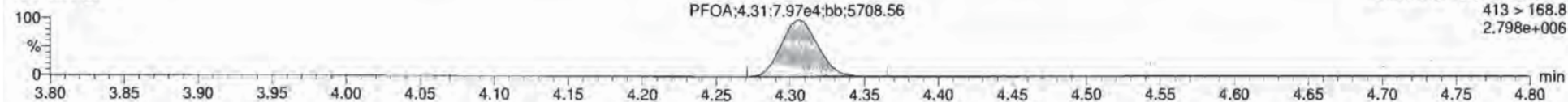
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Total PFOA

170305G1_9

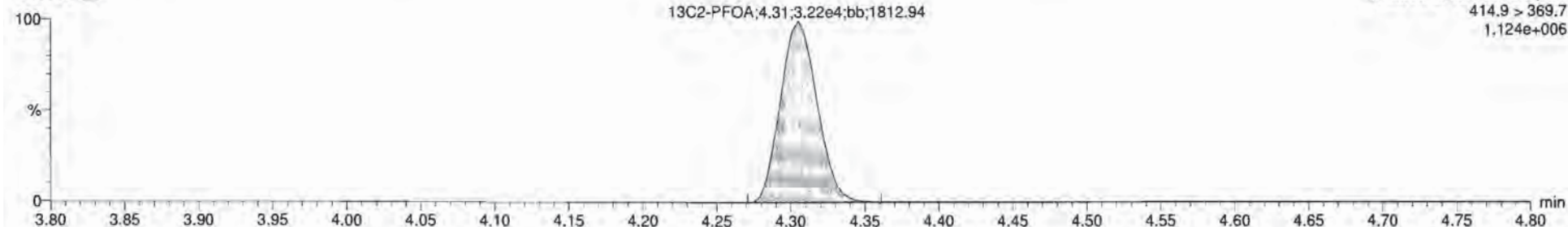


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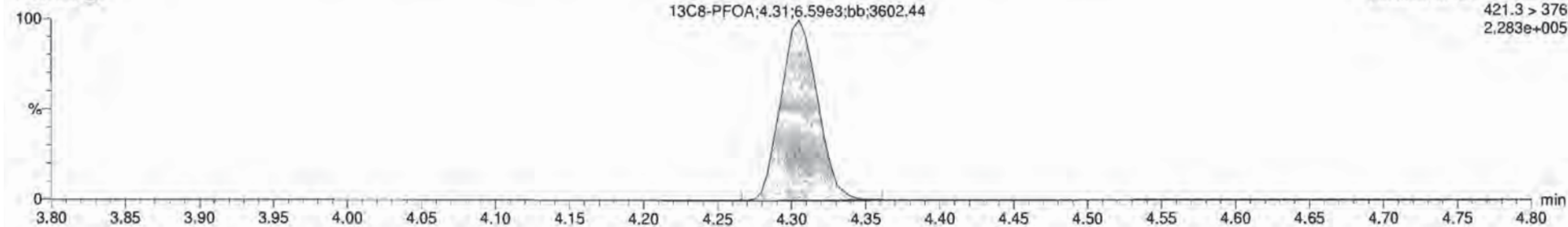
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170305G1_9



13C8-PFOA

170305G1_9

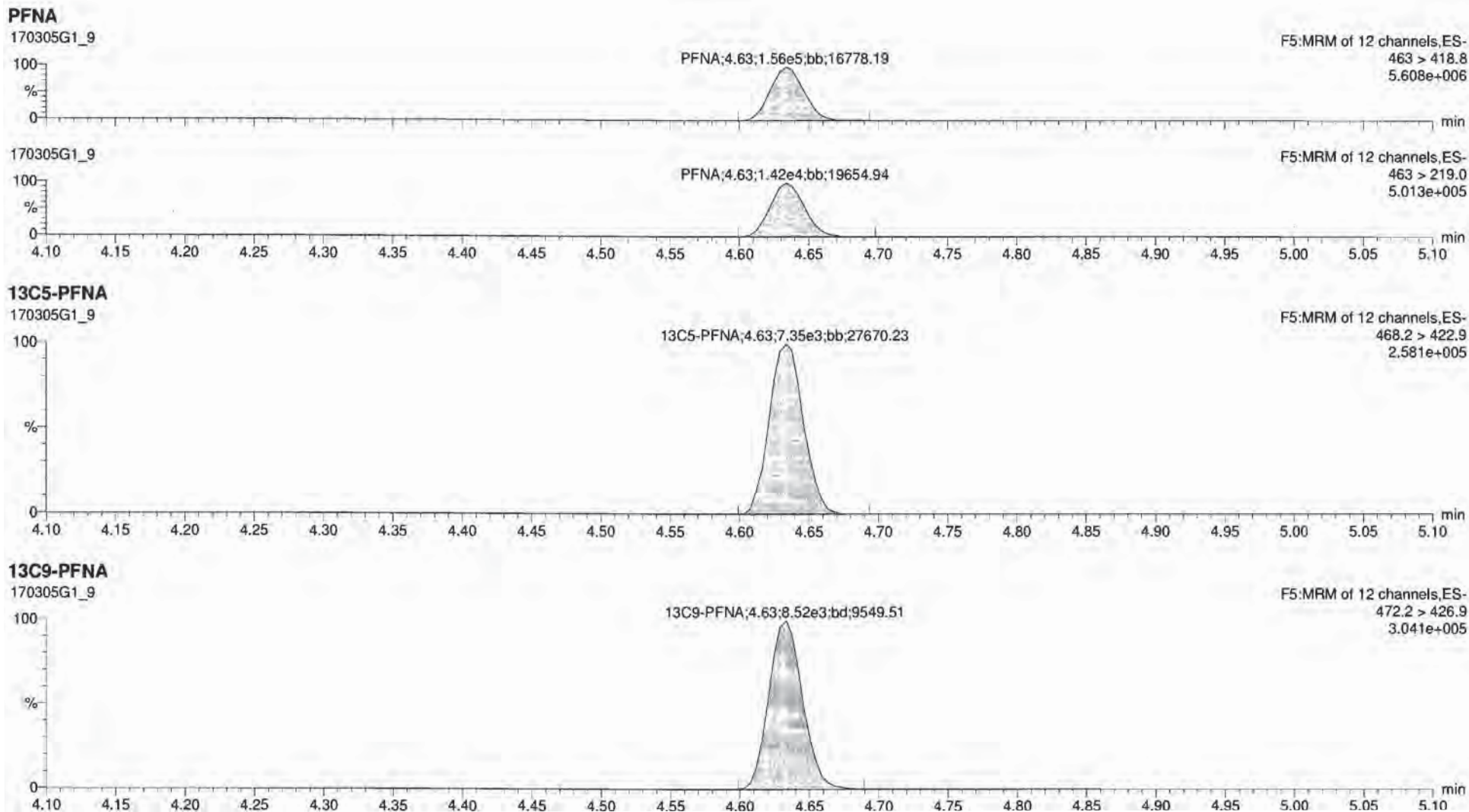


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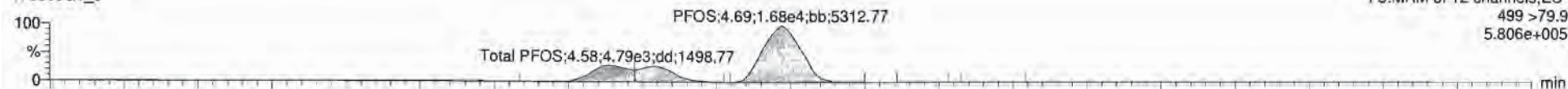
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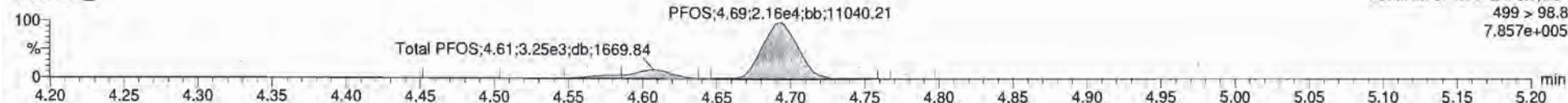
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Total PFOS

170305G1_9

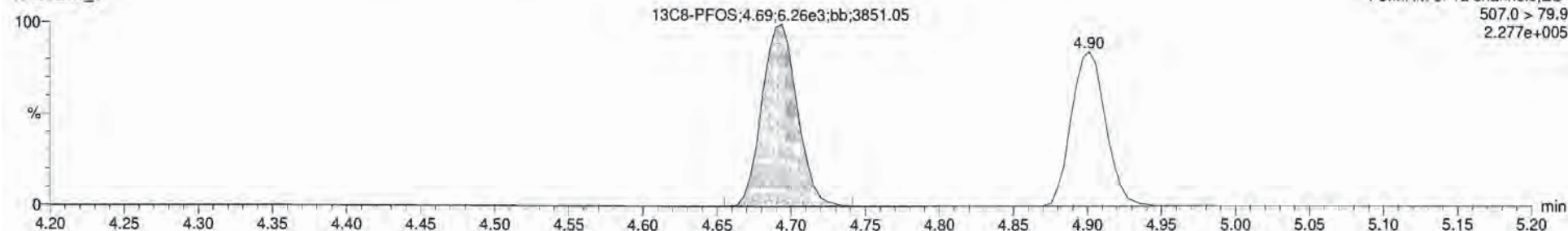


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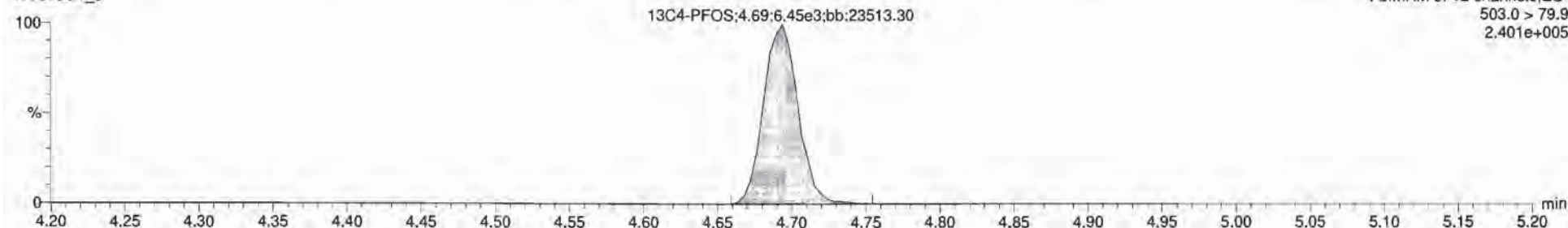
13C8-PFOS

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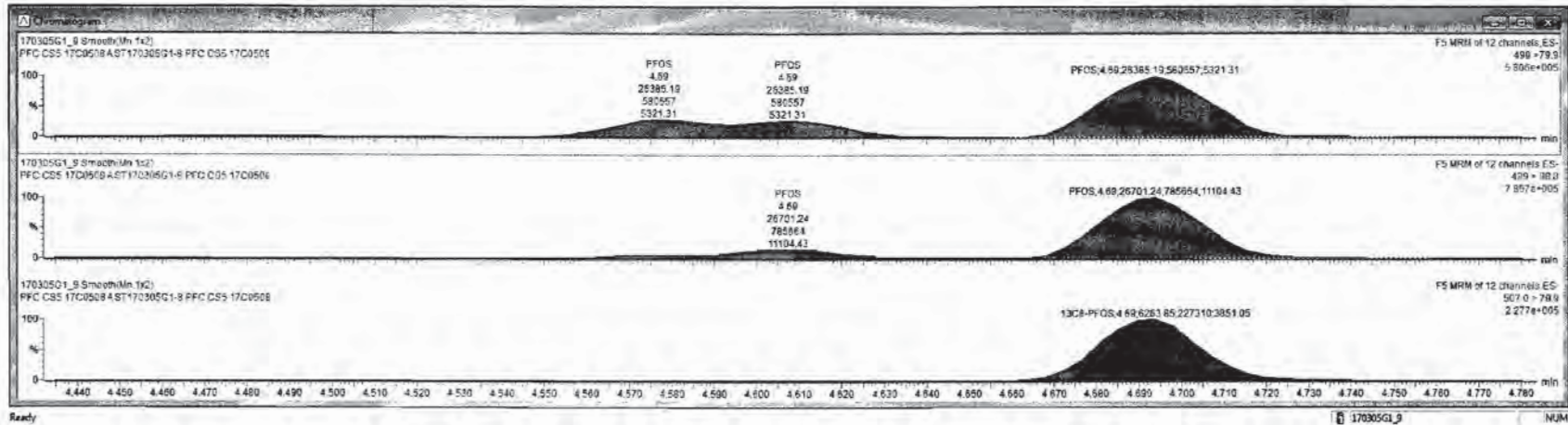


13C4-PFOS

170305G1_9



#	Name	Trace	Area	RFI	Wt%	Prod ID	Q1	Conc.	>MDE	%Rec	TL
1	PFBS	299 > 79.7	9.61e4		1.000	3.03	3.03	98.9	YES	99.6	0.000000
2	PFHpA	363 > 318.3	1.99e5		1.000	3.91	3.91	97.6	YES	97.6	0.000000
3	PFHxS	392.9 > 79.6	8.33e4		1.000	4.02	4.02	97.4	YES	97.4	0.000000
4	PFDA	413 > 368.7	1.98e5		1.000	4.30	4.30	96.4	YES	96.4	0.000000
5	PFNA	463 > 418.3	1.98e5		1.000	4.63	4.63	97.1	YES	97.1	0.000000
6	PFOS	499 > 79.9	3.55e4		1.000	4.70	4.68	100	YES	100.2	0.000000
7	13C1-PFDS	302.0 > 90.8	5.11e3	0.410	1.000	3.02	3.03	12.1	NO	96.5	0.007023
8	13C4-PFHpA	367.2 > 321.8	1.42e4	1.10	1.000	3.90	3.91	12.5	NO	99.0	0.0154078
9	18O2-PFHxS	403 > 122.6	5.89e3	0.434	1.000	4.02	4.02	13.1	NO	105.0	0.0085761
10	13C2-PFDA	414.9 > 369.7	3.22e4	4.61	1.000	4.30	4.30	13.3	NO	106.0	0.0220827
11	13C3-PFNA	465.2 > 422.9	7.25e3	0.667	1.000	4.63	4.63	12.4	NO	99.6	0.0013253
12	15C8-PFOS	507.0 > 79.9	6.29e3	0.958	1.000	4.69	4.69	12.7	NO	101.3	0.0096269
13	13C3-PFHxS	319 > 272.9	2.39e4	1.00	1.000	3.29	3.41	12.5	NO	100.0	0.0122146
14	13C3-PFHxS	401.9 > 79.9	1.29e4	1.00	1.000	3.94	4.02	12.5	NO	100.0	0.0350220
15	13C8-PFDA	421.3 > 376	6.59e3	1.00	1.000	4.22	4.30	12.5	NO	100.0	0.0164096
16	13C9-PFNA	472.2 > 429.9	8.52e3	1.00	1.000	4.96	4.63	12.5	NO	100.0	0.0039269
17	13C4-PFDS	503.0 > 79.9	9.45e3	1.00	1.000	4.67	4.68	12.5	NO	100.0	0.0015848
18	Total PFBS	299 > 79.7	9.61e4		1.000	3.11		98.8	NO		0.000000
19	Total PFHxS	392.9 > 79.6	1.01e5		1.000	4.00		11.8	NO		0.000000
20	Total PFDA	413 > 368.7	1.98e5		1.000	4.30		96.4	NO		0.000000
21	Total PFOS	499 > 79.9	3.55e4		1.000	4.67		135	NO		0.000000



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Last Altered: Monday, March 06, 2017 09:12:14 Pacific Standard Time

Printed: Monday, March 06, 2017 09:13:06 Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-05-17_L6_2Trans.cdb 06 Mar 2017 08:35:26

Name: 170305G1_11, Date: 05-Mar-2017, Time: 14:39:40, ID: SS170305G1-1 PFC SSS 17C0509, Description: PFC SSS 17C0509 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.09e4	6.54e3		1.000	3.03	8.70	87.0
2	2 PFHpA	363 > 318.9	2.52e4	1.73e4		1.000	3.91	10.0	100.4
3	3 PFHxS	398.9 > 79.6	8.94e3	6.56e3		1.000	4.03	9.33	93.3
4	4 PFOA	413 > 368.7	2.26e4	3.20e4		1.000	4.31	10.9	108.7
5	5 PFNA	463 > 418.8	1.28e4	5.80e3		1.000	4.63	10.0	100.4
6	6 PFOS	499 > 79.9	2.01e3	4.01e3		1.000	4.69	11.7	117.2
7	7 13C3-PFBS	302.0 > 98.8	6.54e3	1.49e4	0.410	1.000	3.03	13.4	106.8
8	8 13C4-PFHpA	367.2 > 321.8	1.73e4	1.49e4	1.098	1.000	3.91	13.2	105.7
9	9 18O2-PFHxS	403 > 102.6	6.56e3	1.49e4	0.434	1.000	4.02	12.6	101.2
10	10 13C2-PFOA	414.9 > 369.7	3.20e4	7.38e3	4.608	1.000	4.31	11.8	94.1
11	11 13C5-PFNA	468.2 > 422.9	5.80e3	6.69e3	0.867	1.000	4.63	12.5	99.9
12	12 13C8-PFOS	507.0 > 79.9	4.01e3	4.48e3	0.958	1.000	4.69	11.7	93.4
13	13 13C5-PFHxA	318 > 272.9	2.89e4	2.89e4	1.000	1.000	3.41	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.49e4	1.49e4	1.000	1.000	4.03	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	7.38e3	7.38e3	1.000	1.000	4.31	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	6.69e3	6.69e3	1.000	1.000	4.63	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	4.48e3	4.48e3	1.000	1.000	4.69	12.5	100.0

75-125

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 3/6/17

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 3/6/17

Dataset: Untitled

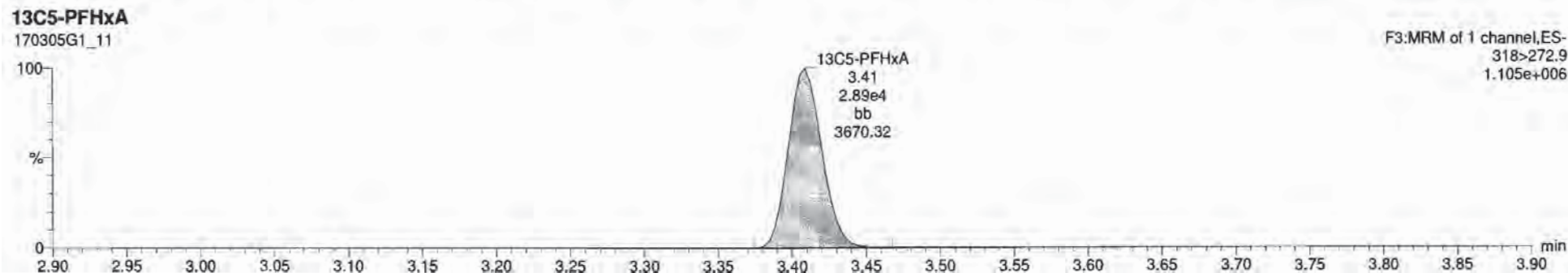
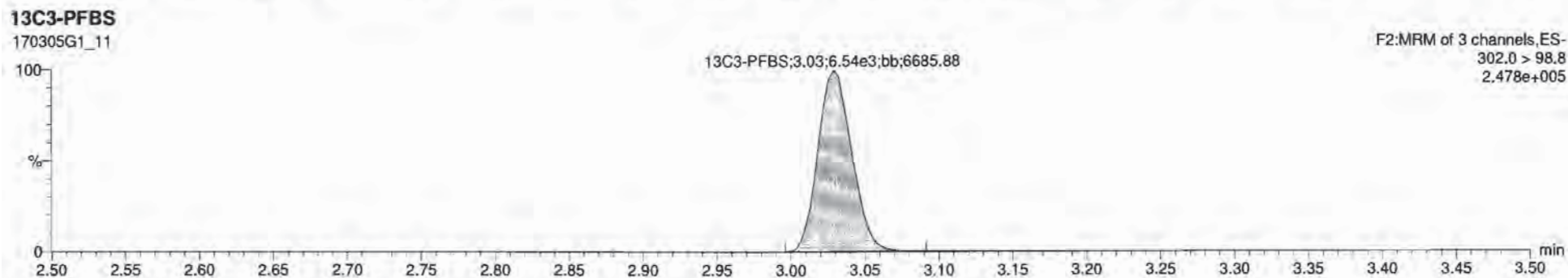
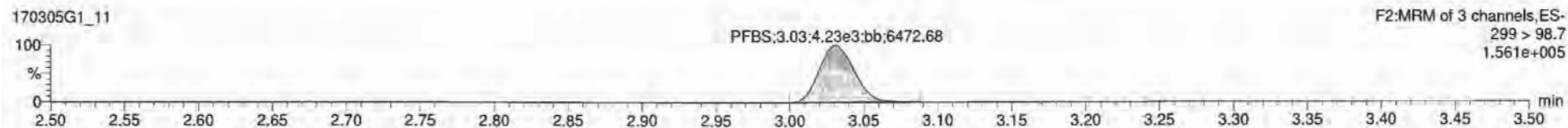
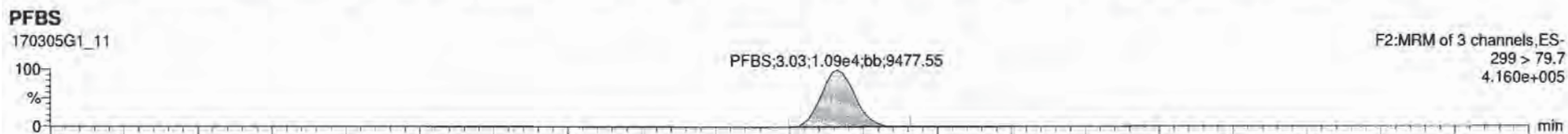
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Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53

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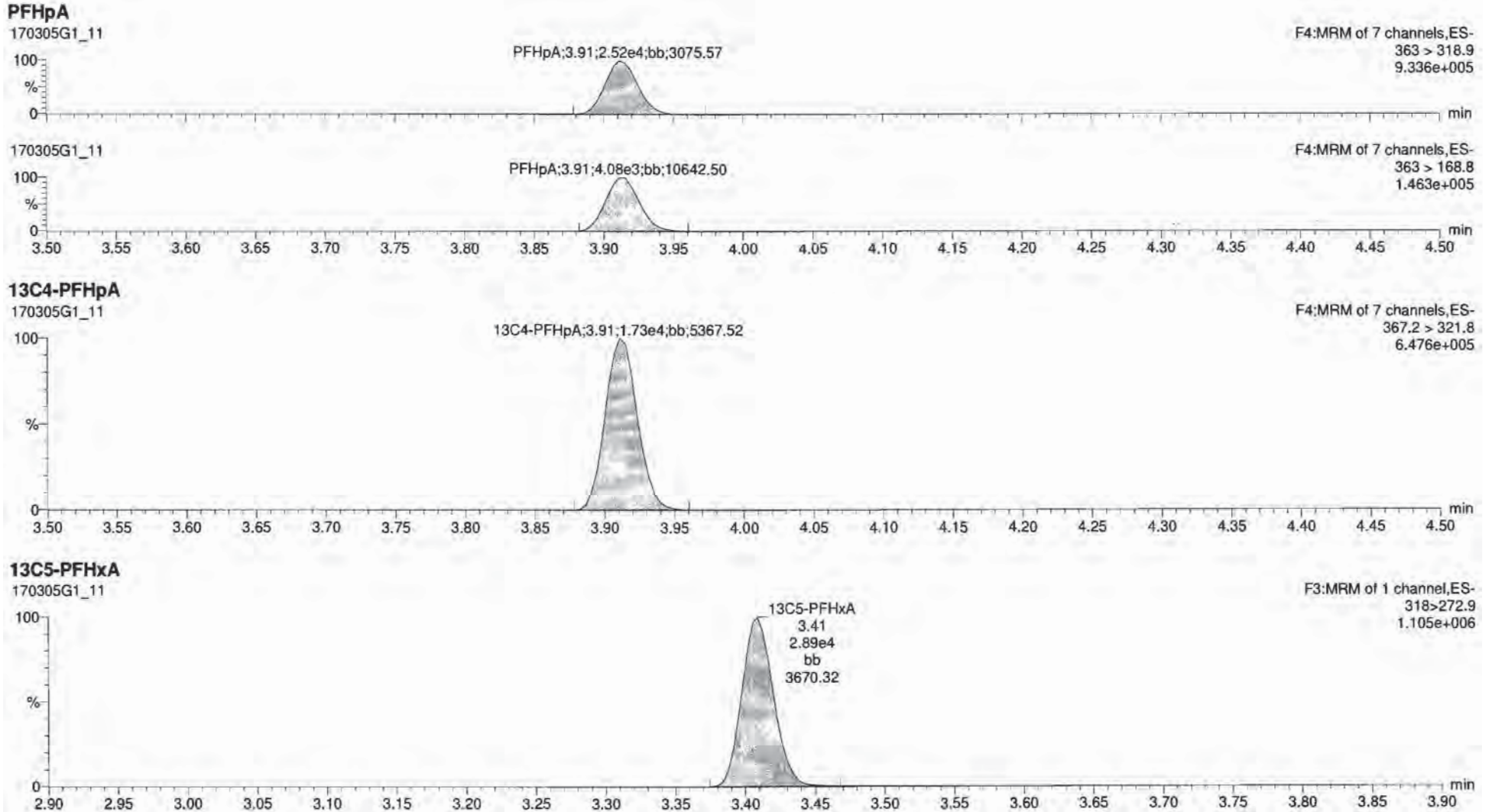
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Last Altered: Monday, March 06, 2017 09:10:12 Pacific Standard Time
Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

ID: SS170305G1-1 PFC SSS 17C0509, Description: PFC SSS 17C0509 A, Name: 170305G1_11, Date: 05-Mar-2017, Time: 14:39:40, Instrument: , Lab: , User:



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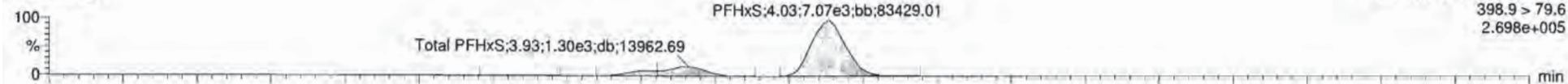
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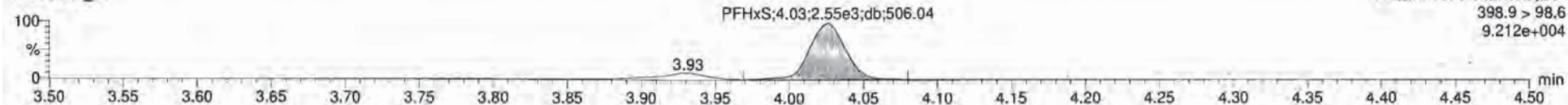
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Total PFHxS

170305G1_11

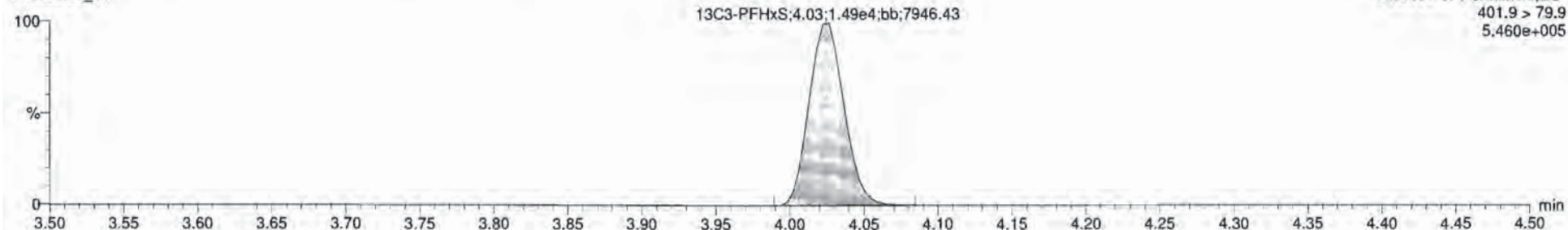


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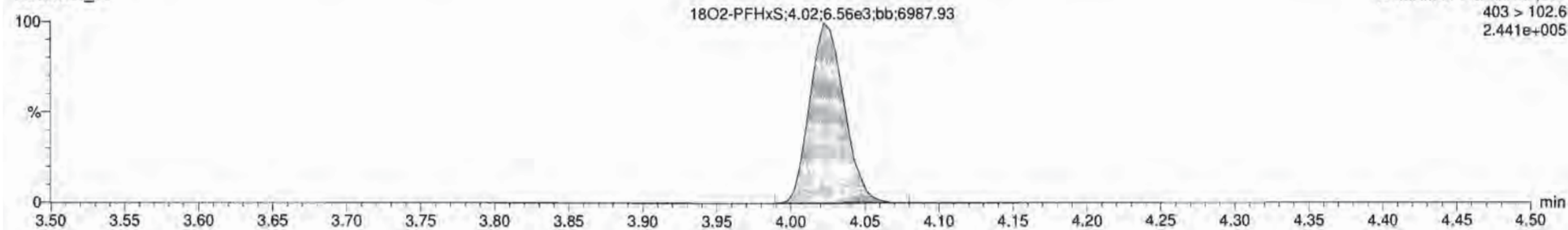
13C3-PFHxS

170305G1_11



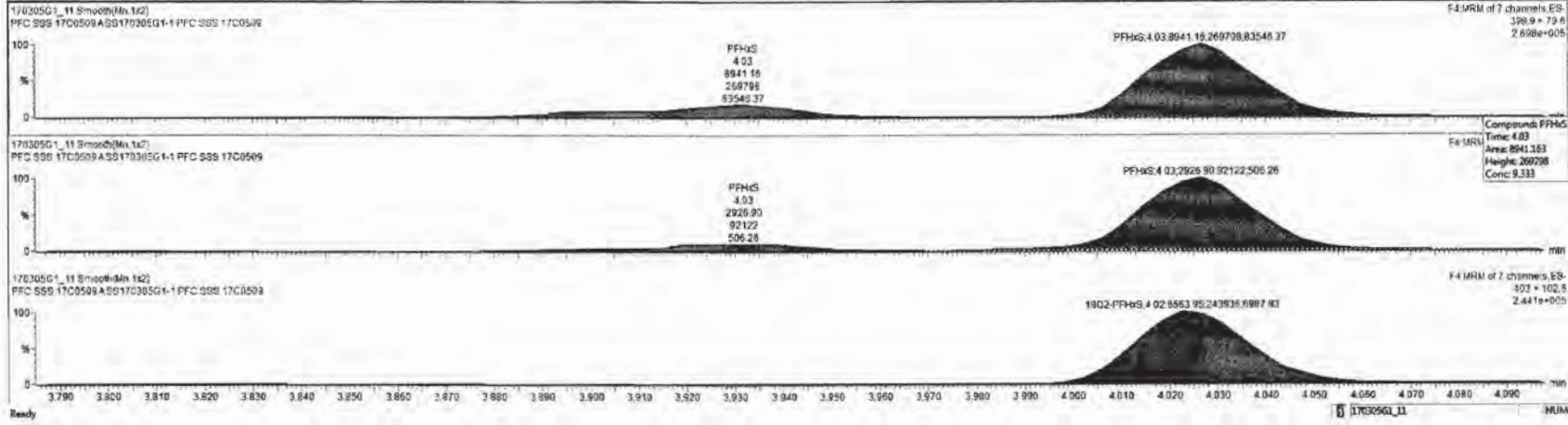
18O2-PFHxS

170305G1_11



170305G1_11_SS170305G1-1-PFC-SSS-17C059-PFC-SSS-17C059A

#	Name	Conc	DL	%Rec	EMPC	Abs Group	SPR	RT	#	IS4	RA	Y/N	INT	Acq Date	Acq Time	RT (Chromat)	ID	Sample Vol	Factor1	ZWI	Col File	MSL
1	PFOS	8.898453	0.0000	87.0		1.057e4	3.03	1	7	0.389	YES	1.001	05-Mar-17	14:39:43	24.078	SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
2	PFHpA	10.037596	0.0000	100.4		2.522e4	3.91	2	8			1.000	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	YES	
3	PFHxS	8.3029796	0.0000	83.3		8.941e3	4.03	3	9			1.001	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	YES	
4	PFOA	10.865712	0.0000	105.7		2.256e4	4.31	4	10			1.000	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	YES	
5	PFNA	10.942823	0.0000	100.4		1.278e4	4.83	5	11			1.000	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	YES	
6	PFOS	7.5852330	0.122	75.9		1.296e3	4.89	6	12			1.000	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	YES	
7	13C3-PFBS	13.351268	0.00517	106.8		8.541e3	0.410	3.03	7	14		0.889	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
8	13C4-PFHgA	13.214452	0.00629	105.7		1.734e4	1.036	3.91	8	14		0.971	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
9	18O2-PFHxS	12.548832	0.00481	101.2		8.564e3	0.434	4.02	9	14		0.999	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
10	13C2-PFOA	11.701295	0.00247	94.1		3.201e4	4.408	4.31	10	15		1.000	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
11	13C3-PFNA	12.488185	0.00143	99.0		5.791e3	0.897	4.83	11	15		1.000	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
12	13C3-PFOS	11.880781	0.00302	93.4		4.014e3	0.958	4.89	12	17		1.000	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
13	13C3-PFHpA	12.502050	0.00051	100.0		2.892e4	1.000	3.41	13	13		0.860	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
14	13C3-PFHNS	12.500000	0.00390	103.0		1.484e4	1.000	4.01	14	14		0.900	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
15	13C4-PFOA	12.500000	0.00378	100.0		7.582e3	1.000	4.31	15	15		0.260	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
16	13C4-PFNA	12.500000	0.00148	103.8		6.492e3	1.000	4.83	16	16		0.800	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
17	13C4-PFOS	12.500000	0.00137	100.0		4.452e3	1.000	4.89	17	17		0.800	05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
18	Total PFBS	8.698458							18				05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
19	Total PFHxS	11.115463							19				05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
20	Total PFOA	10.865712							20				05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	
21	Total PFOS	11.670720	0.122						21				05-Mar-17	14:39:43		SS170305G	PFC SSS 17C059	1.0	1.00	C18_V	NO	



Dataset: Untitled

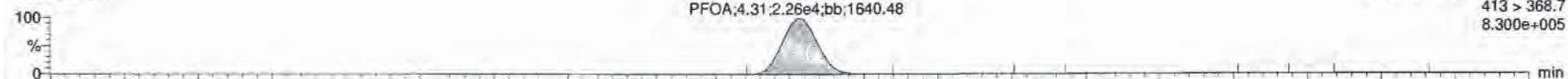
Last Altered: Monday, March 06, 2017 09:10:12 Pacific Standard Time

Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

ID: SS170305G1-1 PFC SSS 17C0509, Description: PFC SSS 17C0509 A, Name: 170305G1_11, Date: 05-Mar-2017, Time: 14:39:40, Instrument: , Lab: , User:

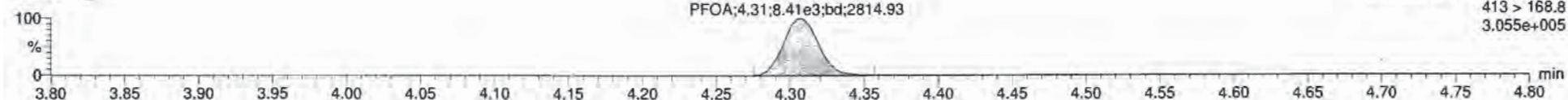
Total PFOA

170305G1_11



F5:MRM of 12 channels,ES-
413 > 368.7
8.300e+005

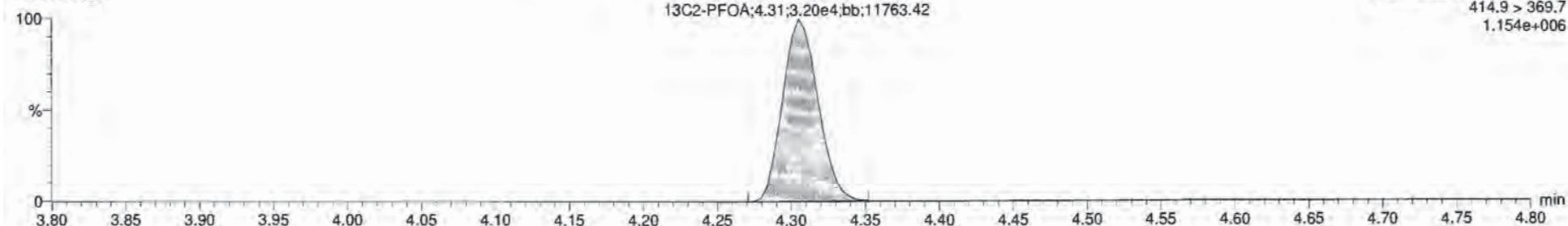
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F5:MRM of 12 channels,ES-
413 > 168.8
3.055e+005

¹³C2-PFOA

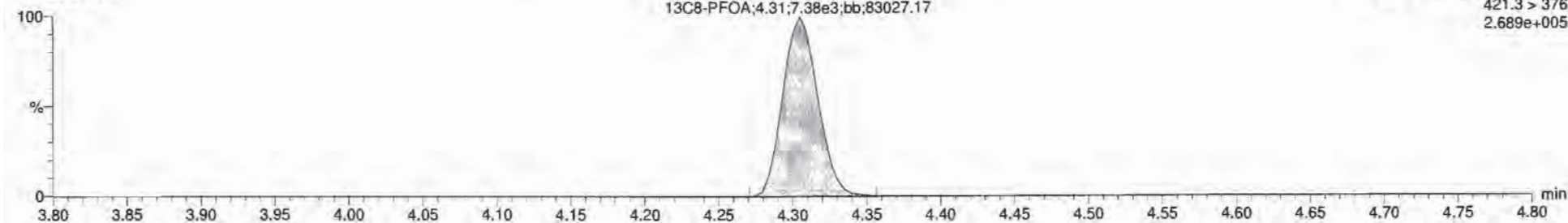
170305G1_11



F5:MRM of 12 channels,ES-
414.9 > 369.7
1.154e+006

¹³C8-PFOA

170305G1_11



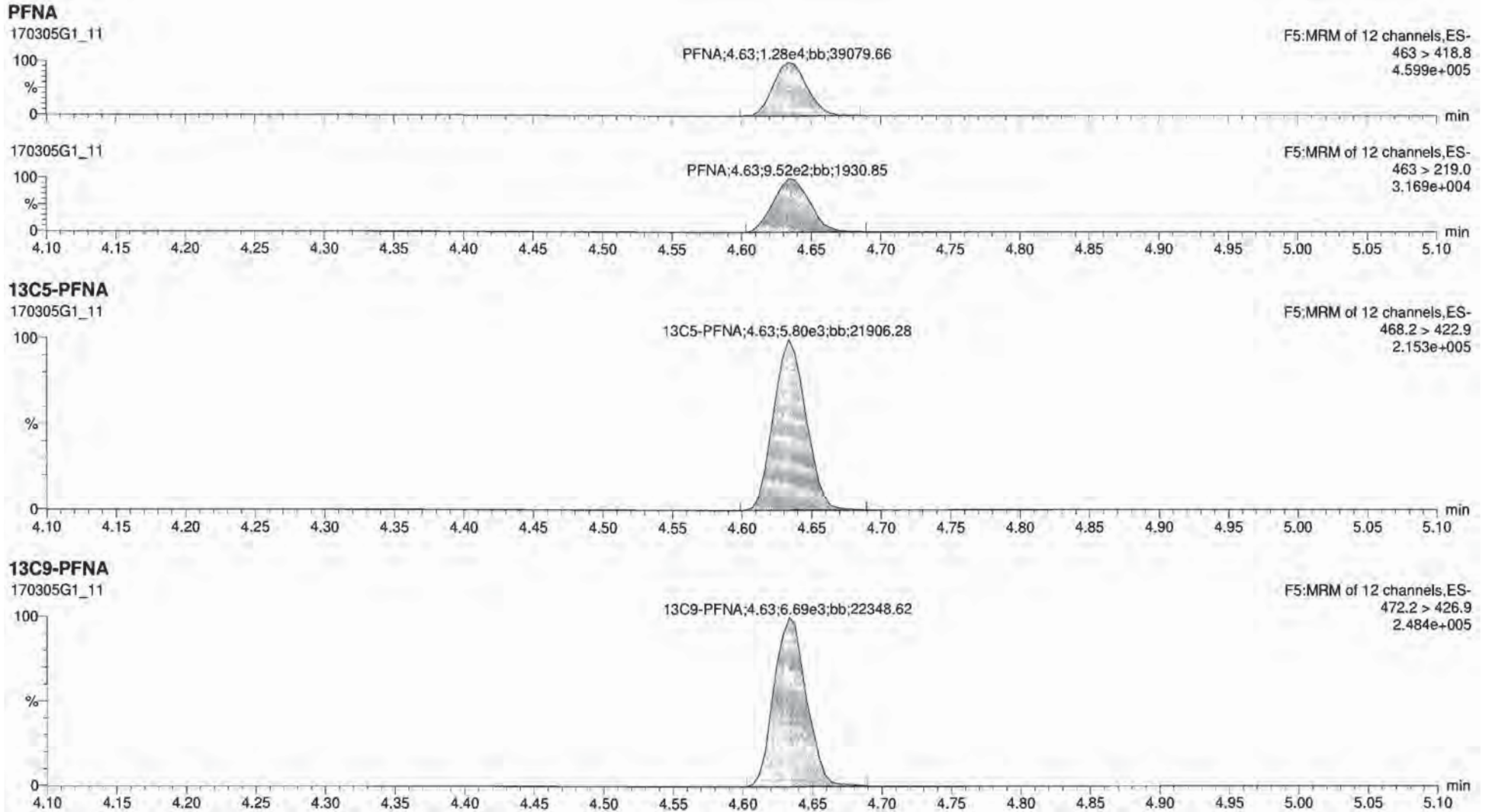
F5:MRM of 12 channels,ES-
421.3 > 376
2.689e+005

Dataset: Untitled

Last Altered: Monday, March 06, 2017 09:10:12 Pacific Standard Time

Printed: Monday, March 06, 2017 09:10:17 Pacific Standard Time

ID: SS170305G1-1 PFC SSS 17C0509, Description: PFC SSS 17C0509 A, Name: 170305G1_11, Date: 05-Mar-2017, Time: 14:39:40, Instrument: , Lab: , User:



Dataset: Untitled

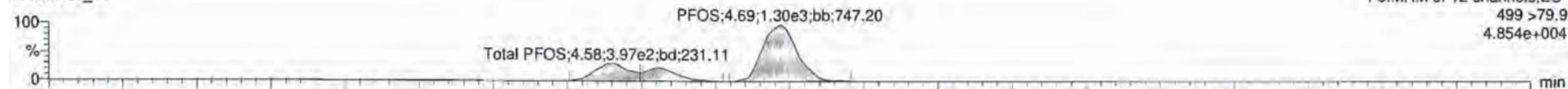
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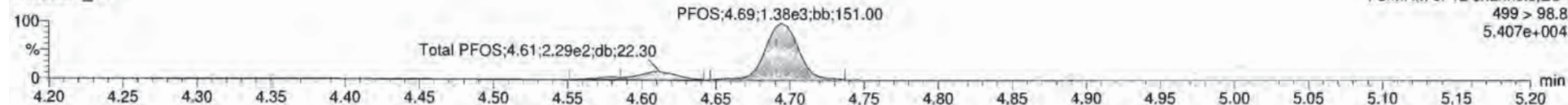
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Total PFOS

170305G1_11

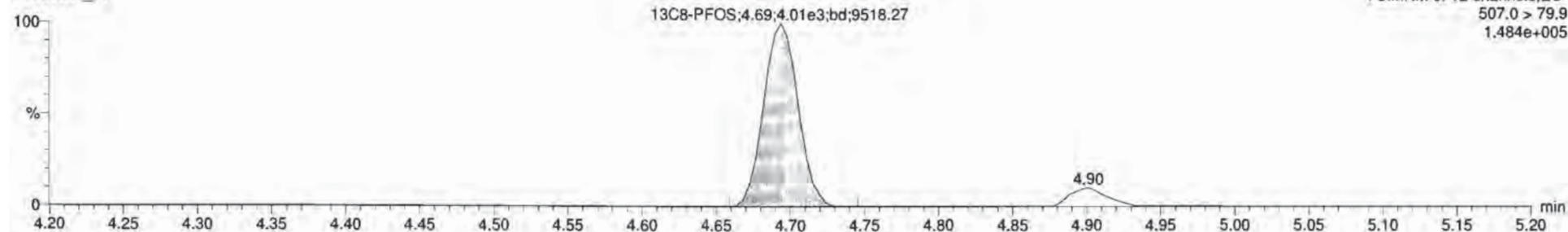


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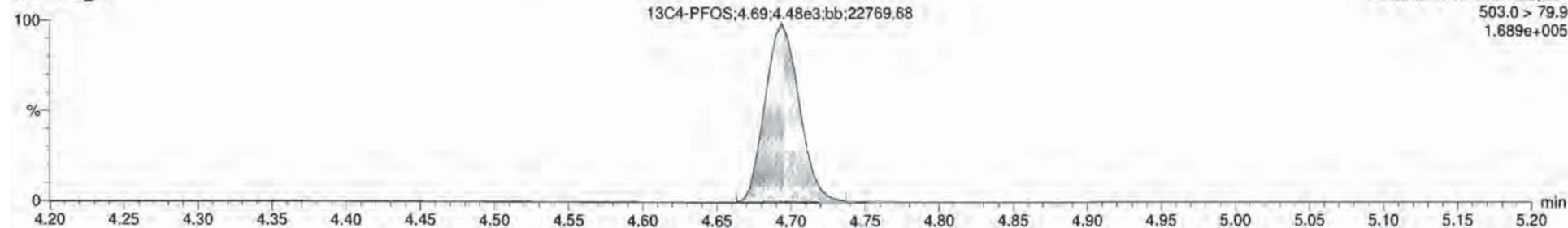
13C8-PFOS

170305G1_11



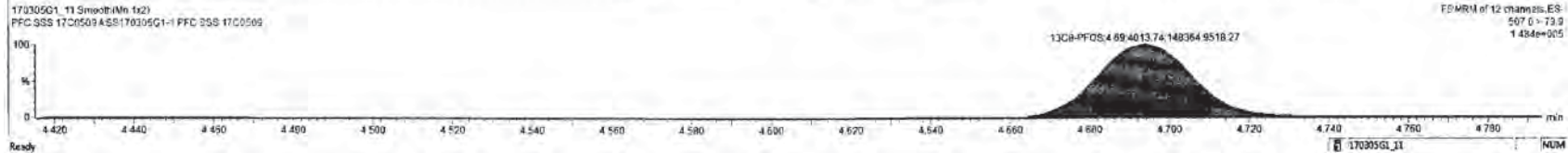
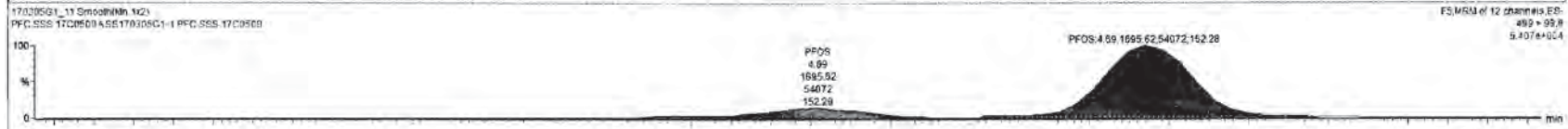
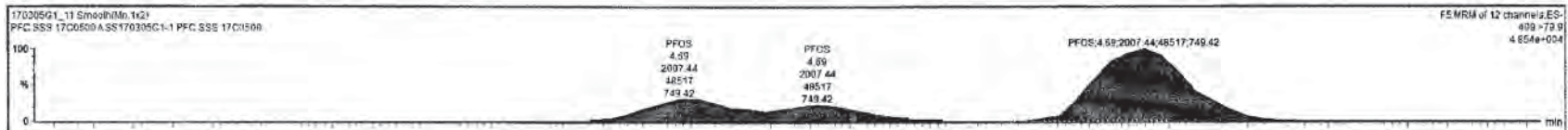
13C4-PFOS

170305G1_11





170305G1_11 - SS170305C1-1 PFC SSS 17C0509 - PFC SSS 17C0509 A																					
Name	Conc	CS	%Rec	EMPC	Abn Resn	RRF	RT	#	SM	SA	V/V	RR1	Acq Date	Acq Time	1 st Chk Value	ID	Sample Test	Factor1	SW	Cal File	→MDL
1	PFBS	0.6928458	0.0090	87.0			3.03	1	7	0.308	YES	1.001	05-Mar-17	14:39:40	24.076	SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
2	PFHxA	10.937596	0.0090	100.4			2.523e4	3.91	2	0		1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	YES
3	PFHxS	9.3329736	0.0090	80.3			9.941e3	4.05	3	0		1.001	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	YES
4	PFDA	10.885712	0.0090	100.7			2.256e4	4.31	4	10		1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	YES
5	PFNA	10.942922	0.0090	100.4			1.275e4	4.61	5	11		1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	YES
6	PFOS	11.719588	0.122	117.2			2.877e3	4.69	6	12		1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	YES
7	13C3-PFBS	13.351254	0.00517	100.8			6.541e3	0.410	3.03	7	14	0.829	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
8	13C3-PFHxA	13.214482	0.00629	105.7			1.734e4	1.095	3.91	8	14	0.971	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
9	13C3-PFHxS	12.648832	0.00461	101.2			6.564e3	0.434	4.02	9	14	0.999	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
10	13C3-PFDA	11.761296	0.00247	94.1			3.207e4	4.050	4.31	10	16	1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
11	13C3-PFNA	12.488188	0.00143	99.9			6.797e3	0.367	4.65	11	16	1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
12	13C3-PFOS	11.608761	0.00302	85.4			4.014e3	0.358	4.69	12	17	1.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
13	13C3-PFHxA	12.506000	0.00281	100.0			2.996e4	1.000	3.41	13	13	0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
14	13C3-PFHxS	12.508000	0.00390	100.8			1.494e4	1.000	4.03	14	14	0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
15	13C3-PFDA	12.509000	0.00376	100.0			7.382e3	1.000	4.31	15	15	0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
16	13C3-PFNA	12.509000	0.00140	100.0			6.682e3	1.000	4.63	16	16	0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
17	13C3-PFOS	12.509000	0.00107	100.0			4.452e3	1.000	4.69	17	17	0.000	05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
18	Total PFBS	8.6909459							18				05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
19	Total PFHxS	11.119483							19				05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
20	Total PFDA	10.865712							20				05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO
21	Total PFOS	15.801081	0.122						21				05-Mar-17	14:39:40		SS170305G	PFC SSS 17C0509	1.0	1.00	C18_V	NO



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
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BLK	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	BS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MS	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	03/06/2017 08:15	03/06/2017	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup	NONS	SVOA	537_MOD	ORG	VISTA	VISTA ANALYTICAL LABORATORY, INC.	NONE	WET	METHOD	000	MSD	W	4	03/06/2017 08:15	03/06/2017	

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	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
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank		20170306	08:15:00	20170306	17:17:00	B7C0017-BLK1	1	-999			13C2-PFOA	13C2-PFOA	82.1		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank		20170306	08:15:00	20170306	17:17:00	B7C0017-BLK1	1	-999			13C8-PFOS	13C8-PFOS	104		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		20170306	08:15:00	20170306	16:27:00	B7C0017-BS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	84.2		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		20170306	08:15:00	20170306	16:27:00	B7C0017-BS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1	83.5		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		20170306	08:15:00	20170306	16:27:00	B7C0017-BS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	70.4		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		20170306	08:15:00	20170306	16:27:00	B7C0017-BS1	1	-999			13C3-PFBS	13C3-PFBS	106		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		20170306	08:15:00	20170306	16:27:00	B7C0017-BS1	1	-999			13C2-PFOA	13C2-PFOA	88.8		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		20170306	08:15:00	20170306	16:27:00	B7C0017-BS1	1	-999			13C8-PFOS	13C8-PFOS	91.8		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		20170306	08:15:00	20170306	21:41:00	B7C0017-MS1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	89.2		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		20170306	08:15:00	20170306	21:41:00	B7C0017-MS1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1	91.6		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		20170306	08:15:00	20170306	21:41:00	B7C0017-MS1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	89.8		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		20170306	08:15:00	20170306	21:41:00	B7C0017-MS1	1	-999			13C3-PFBS	13C3-PFBS	89.4		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		20170306	08:15:00	20170306	21:41:00	B7C0017-MS1	1	-999			13C2-PFOA	13C2-PFOA	83.9		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		20170306	08:15:00	20170306	21:41:00	B7C0017-MS1	1	-999			13C8-PFOS	13C8-PFOS	74.7		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		20170306	08:15:00	20170306	21:53:00	B7C0017-MSD1	1	-999			Perfluorobutanesulfonic acid (PFBS)	375-73-5	85.1		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		20170306	08:15:00	20170306	21:53:00	B7C0017-MSD1	1	-999			Perfluorooctanoic acid (PFOA)	335-67-1	89.4		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		20170306	08:15:00	20170306	21:53:00	B7C0017-MSD1	1	-999			Perfluorooctane Sulfonate (PFOS)	1763-23-1	72.4		NG_L	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		20170306	08:15:00	20170306	21:53:00	B7C0017-MSD1	1	-999			13C3-PFBS	13C3-PFBS	88.0		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		20170306	08:15:00	20170306	21:53:00	B7C0017-MSD1	1	-999			13C2-PFOA	13C2-PFOA	83.0		PCT_REC	
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		20170306	08:15:00	20170306	21:53:00	B7C0017-MSD1	1	-999			13C8-PFOS	13C8-PFOS	89.8		PCT_REC	

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	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	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02S-0317		PR	TRG									5.0	17.1	38.2	76.3	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02S-0317		PR	TRG									5.0	0.621	1.91	7.63	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02S-0317		PR	TRG									5.0	0.770	0.859	7.63	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02SP-0317		PR	TRG									5.0	17.3	38.8	77.4	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02SP-0317		PR	TRG									5.0	0.630	1.94	7.74	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02SP-0317		PR	TRG									5.0	0.781	0.872	7.74	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02SP-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02SP-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02SP-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04S-0317		PR	TRG									5.0	1.75	3.91	7.83	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04S-0317		PR	TRG									5.0	0.637	1.95	7.83	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04S-0317		PR	TRG									5.0	0.790	0.879	7.83	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04SP-0317		PR	TRG									5.0	1.71	3.82	7.64	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04SP-0317		PR	TRG									5.0	0.621	1.91	7.64	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04SP-0317		PR	TRG									5.0	0.770	0.859	7.64	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04SP-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04SP-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW04SP-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02M-0317		PR	TRG									5.0	1.74	3.88	7.76	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02M-0317		PR	TRG									5.0	0.631	1.94	7.76	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02M-0317		PR	TRG									5.0	0.783	0.872	7.76	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02M-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02M-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW02M-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW12D-0317		PR	TRG									5.0	1.78	3.97	7.96	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW12D-0317		PR	TRG									5.0	0.648	1.98	7.96	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW12D-0317		PR	TRG									5.0	0.803	0.893	7.96	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW12D-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW12D-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW12D-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB09-030117		PR	TRG									5.0	1.94	4.35	8.69	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB09-030117		PR	TRG									5.0	0.707	2.17	8.69	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB09-030117		PR	TRG									5.0	0.877	0.978	8.69	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB09-030117		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB09-030117		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB09-030117		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08S-0317		PR	TRG									5.0	1.72	3.85	7.71	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08S-0317		PR	TRG									5.0	0.627	1.92	7.71	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08S-0317		PR	TRG									5.0	0.777	0.865	7.71	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-GW08S-0317		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-FB01-030217		PR	TRG									5.0	1.87	4.20	8.37	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-FB01-030217		PR	TRG									5.0	0.681	2.10	8.37	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-FB01-030217		PR	TRG									5.0	0.845	0.945	8.37	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-FB01-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-FB01-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-FB01-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB10-030217		PR	TRG									5.0	2.41	5.38	10.8	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB10-030217		PR	TRG									5.0	0.875	2.69	10.8	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB10-030217		PR	TRG									5.0	1.08	1.21	10.8	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB10-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB10-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB10-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB11-030217		PR	TRG									5.0	1.89	4.24	8.46	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB11-030217		PR	TRG									5.0	0.689	2.12	8.46	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB11-030217		PR	TRG									5.0	0.854	0.953	8.46	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB11-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB11-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	WI-CV-EB11-030217		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank		PR	TRG									5.0	1.79	4.00	8.00	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank		PR	TRG									5.0	0.651	2.00	8.00	1700293			

Contract_ID	DO_CTO_Number	Phase	Installation_ID	Sample_Name	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	0008		WHIDBEY_ISLAND_NAS	Blank		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Blank		PR	IS		SLSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		PR	TRG		LSA	130	60					5.0	1.79	4.00	8.00	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		PR	TRG		LSA	130	70					5.0	0.651	2.00	8.00	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		PR	TRG		LSA	130	70					5.0	0.807	0.900	8.00	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		PR	IS		LSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		PR	IS		LSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	LCS		PR	IS		LSA	150	60					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		PR	TRG		LSA	130	60					5.0	1.80	4.03	8.06	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		PR	TRG		LSA	130	70					5.0	0.656	2.02	8.06	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		PR	TRG		LSA	130	70					5.0	0.813	0.907	8.06	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		PR	IS		LSA	150	150					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike		PR	IS		LSA	150	150					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		PR	TRG		LSA	130	60					5.0	1.78	4.00	7.97	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		PR	TRG		LSA	130	70					5.0	0.649	2.00	7.97	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		PR	TRG		LSA	130	70					5.0	0.804	0.900	7.97	1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		PR	IS		LSA	150	150					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		PR	IS		LSA	150	150					5.0				1700293	S7C0013		
N6247016D9000	0008		WHIDBEY_ISLAND_NAS	Matrix Spike Dup		PR	IS		LSA	150	150					5.0				1700293	S7C0013		

**DATA VALIDATION SUMMARY REPORT
COUPEVILLE, WASHINGTON**

Client: CH2M HILL, Inc., Corvallis, Oregon
 SDG: 1700293
 Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
 Site: Coupeville, CTO-0008, Washington
 Date: March 24, 2017

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	WI-CV-GW02S-0317	1700293-01	Water
2	WI-CV-GW02SP-0317	1700293-02	Water
3	WI-CV-GW04S-0317	1700293-03	Water
4	WI-CV-GW04SP-0317	1700293-04	Water
5	WI-CV-GW02M-0317	1700293-05	Water
6	WI-CV-GW12D-0317	1700293-06	Water
6MS	WI-CV-GW12D-0317MS	1700293-06MS	Water
6MSD	WI-CV-GW12D-0317MSD	1700293-06MSD	Water
7	WI-CV-EB09-030117	1700293-07	Water
8	WI-CV-GW08S-0317	1700293-08	Water
9	WI-CV-FB01-030217	1700293-09	Water
10	WI-CV-EB10-030217	1700293-10	Water
11	WI-CV-EB11-030217	1700293-11	Water

A full data validation was performed on the analytical data for seven water samples, three aqueous equipment blank samples, and one field blank sample collected on March 1-2, 2017 by CH2M HILL at the Coupeville site in Washington. The samples were analyzed under the EPA Method “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”.

Specific method references are as follows:

Analysis
PFCs

Method References
USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM), Version 5.0 (July 2013) and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Superfund Organic Methods Data Review,” August 2014;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate recovery (%R)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Ongoing Precision and Recovery (OPR)
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Perfluorinated Compounds (PFCs)

Data Completeness, Case Narrative & Custody Documentation

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

Initial Calibration

- All percent difference (%D) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- The field blank samples were free of contamination except for the following.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WI-CV-EB09-030117	None - ND	-	-	-
WI-CV-FB01-030217	None - ND	-	-	-
WI-CV-EB10-030217	None - ND	-	-	-
WI-CV-EB11-030217	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD sample exhibited acceptable %R and RPD values.

Ongoing Precision and Recovery (OPR)

- The OPR samples exhibited acceptable percent recoveries (%R) values.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of the target compounds. Reporting limits were adjusted accordingly. No action was required.

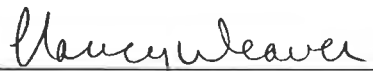
Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	WI-CV-GW02S-0317 ng/L	WI-CV-GW02SP-0317 ng/L	RPD	Qualifier
PFBS	332	357	7%	None
PFOA	571	564	1%	
PFOS	54.7	53.0	3%	

Compound	WI-CV-GW04S-0317 ng/L	WI-CV-GW04SP-0317 ug/L	RPD	Qualifier
None - ND	-	-	-	-

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: 
 Nancy Weaver
 Senior Chemist

Dated: 3/24/17

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Sample ID: WI-CV-GW02S-0317

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-01	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.131 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	01-Mar-2017 11:00				Date Analyzed:	06-Mar-17 18:45 Column: BEH C18			
Location:	MW-02S					07-Mar-17 09:51 Column: BEH C18			
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	332	17.1	38.2	76.3	∅	IS 13C3-PFBS	112	60 - 150	∅
PFOA	571	0.621	1.91	7.63		IS 13C2-PFOA	78.6	60 - 150	
PFOS	54.7	0.770	0.859	7.63		IS 13C8-PFOS	94.0	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

MW 3124/17

2

Sample ID: WI-CV-GW02SP-0317						Modified EPA Method 537			
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700293-02	Date Received:	04-Mar-2017 9:49		
Project:	Navy Clean CTO-08	Sample Size:	0.129 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15		
Date Collected:	01-Mar-2017 11:05			Date Analyzed:	06-Mar-17 18:58 Column: BEH C18				
Location:	MW-02S					07-Mar-17 10:04 Column: BEH C18			
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	357	17.3	38.8	77.4	✓	IS 13C3-PFBS	112	60 - 150	✓
PFOA	564	0.630	1.94	7.74		IS 13C2-PFOA	86.4	60 - 150	
PFOS	53.0	0.781	0.872	7.74		IS 13C8-PFOS	90.4	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

mw 3/24/17

3

Sample ID: WI-CV-GW04S-0317						Modified EPA Method 537			
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700293-03	Date Received:	04-Mar-2017 9:49		
Project:	Navy Clean CTO-08	Sample Size:	0.128 L	QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15		
Date Collected:	01-Mar-2017 13:25			Date Analyzed:	06-Mar-17 19:10 Column: BEH C18				
Location:	MW-04S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.83		IS 13C3-PFBS	98.7	60 - 150	
PFOA	ND	0.637	1.95	7.83		IS 13C2-PFOA	83.2	60 - 150	
PFOS	ND	0.790	0.879	7.83		IS 13C8-PFOS	94.8	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

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

Only the linear isomer is reported for all other analytes.

MW 3124117

4

Sample ID: WI-CV-GW04SP-0317					Modified EPA Method 537				
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-04	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.131 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	01-Mar-2017 13:35	Date Analyzed: 06-Mar-17 19:23 Column: BEH C18							
Location:	MW-04S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.71	3.82	7.64		IS 13C3-PFBS	93.1	60 - 150	
PFOA	ND	0.621	1.91	7.64		IS 13C2-PFOA	82.6	60 - 150	
PFOS	ND	0.770	0.859	7.64		IS 13C8-PFOS	89.8	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

NW 3/24/17

5

Sample ID: WI-CV-GW02M-0317						Modified EPA Method 537			
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-05	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.129 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	01-Mar-2017 13:55	Date Analyzed: 06-Mar-17 20:13 Column: BEH C18							
Location:	MW-02M								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.74	3.88	7.76		IS 13C3-PFBS	96.4	60 - 150	
PFOA	ND	0.631	1.94	7.76		IS 13C2-PFOA	86.0	60 - 150	
PFOS	ND	0.783	0.872	7.76		IS 13C8-PFOS	96.0	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

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

Only the linear isomer is reported for all other analytes.

NW 3/24/17

6

Sample ID: WI-CV-GW12D-0317						Modified EPA Method 537			
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-06	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.126 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	01-Mar-2017 16:50	Date Analyzed: 06-Mar-17 20:26 Column: BEH C18							
Location:	MW-12D								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.78	3.97	7.96		IS 13C3-PFBS	88.9	60 - 150	
PFOA	ND	0.648	1.98	7.96		IS 13C2-PFOA	82.0	60 - 150	
PFOS	ND	0.803	0.893	7.96		IS 13C8-PFOS	84.0	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

MW 3124/17

7

Sample ID: WI-CV-EB09-030117						Modified EPA Method 537			
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-07	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.115 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	01-Mar-2017 14:00	Date Analyzed: 06-Mar-17 20:38 Column: BEH C18							
Location:	EB-09								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.94	4.35	8.69		IS 13C3-PFBS	90.8	60 - 150	
PFOA	ND	0.707	2.17	8.69		IS 13C2-PFOA	86.1	60 - 150	
PFOS	ND	0.877	0.978	8.69		IS 13C8-PFOS	95.5	60 - 150	

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL

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

Only the linear isomer is reported for all other analytes

NW 3/24/17

8

Sample ID: WI-CV-GW08S-0317					Modified EPA Method 537				
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-08	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.130 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	02-Mar-2017 10:50								
Location:	MW-08S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.72	3.85	7.71		IS 13C3-PFBS	101	60 - 150	
PFOA	ND	0.627	1.92	7.71		IS 13C2-PFOA	92.3	60 - 150	
PFOS	ND	0.777	0.865	7.71		IS 13C8-PFOS	76.9	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

NW 3/24/17

9

Sample ID: WI-CV-FB01-030217					Modified EPA Method 537				
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-09	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.119 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	02-Mar-2017 13:00								
Location:	FB01								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.87	4.20	8.37		IS 13C3-PFBS	103	60 - 150	
PFOA	ND	0.681	2.10	8.37		IS 13C2-PFOA	85.9	60 - 150	
PFOS	ND	0.845	0.945	8.37		IS 13C8-PFOS	84.0	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

new 3/24/17

Sample ID: WI-CV-EB10-030217						Modified EPA Method 537			
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-10	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.0930 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	02-Mar-2017 13:15	Date Analyzed: 06-Mar-17 21:16 Column: BEH C18							
Location:	EB10								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	2.41	5.38	10.8		IS 13C3-PFBS	105	60 - 150	
PFOA	ND	0.875	2.69	10.8		IS 13C2-PFOA	92.4	60 - 150	
PFOS	ND	1.08	1.21	10.8		IS 13C8-PFOS	97.0	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

W 3/24/17

11

Sample ID: WI-CV-EB11-030217						Modified EPA Method 537			
Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700293-11	Date Received:	04-Mar-2017 9:49	
Project:	Navy Clean CTO-08	Sample Size:	0.118 L		QC Batch:	B7C0017	Date Extracted:	06-Mar-2017 8:15	
Date Collected:	02-Mar-2017 13:30	Date Analyzed: 06-Mar-17 21:28 Column: BEH C18							
Location:	EB11								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.89	4.24	8.46		IS 13C3-PFBS	103	60 - 150	
PFOA	ND	0.689	2.12	8.46		IS 13C2-PFOA	85.0	60 - 150	
PFOS	ND	0.854	0.953	8.46		IS 13C8-PFOS	97.5	60 - 150	

DL - Detection limit
 RL - Reporting limit

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

mw 3/24/17

CV-MW11-M	2/26/17
Depth (ft bgs)	170.43
PFBS	7.66 U
PFOS	1.72 U
PFOA	3.83 U
CV-MW07-S	3/4/17
Depth (ft bgs)	145.02
PFBS	4.39 U
PFOS	0.987 U
PFOA	2.19 U
CV-MW07-M	3/4/17
Depth (ft bgs)	193.75
PFBS	3.91 U
PFOS	0.844 J
PFOA	1.95 U
CV-MW04-M	2/28/17
Depth (ft bgs)	159.05
PFBS	4.03 U
PFOS	0.907 U
PFOA	2.02 U
CV-MW04-S	3/1/17
Depth (ft bgs)	126.93
PFBS	3.91 U
PFOS	0.879 U
PFOA	1.95 U
CV-MW14-M	3/4/17
Depth (ft bgs)	176.34
PFBS	111
PFOS	0.898 J
PFOA	166
CV-MW03-D	2/27/17
Depth (ft bgs)	237.43
PFBS	3.91 U
PFOS	0.914 J
PFOA	1.95 U
CV-MW03-M	2/27/17
Depth (ft bgs)	160.35
PFBS	3.88 U
PFOS	0.872 U
PFOA	1.94 U
CV-MW13-S	3/3/17
Depth (ft bgs)	114.98
PFBS	4.07 U
PFOS	0.915 U
PFOA	2.03 U
CV-MW13-M	2/22/17
Depth (ft bgs)	187.76
PFBS	139
PFOS	0.872 U
PFOA	20.4
CV-MW09-M	2/23/17
Depth (ft bgs)	197.33
PFBS	11.2
PFOS	0.915 U
PFOA	2.03 U
CV-MW09-S	NA
Depth (ft bgs)	110.92
PFBS	NS
PFOS	NS
PFOA	NS

CV-MW11-S	2/26/17
Depth (ft bgs)	140.43
PFBS	3.91 U
PFOS	1.0 J
PFOA	1.95 U
Building 11	9/19/16
Depth (ft bgs)	162
PFBS	10 U
PFOS	10 U
PFOA	3 U
Building 2807	9/19/16
Depth (ft bgs)	178
PFBS	110
PFOS	10 U
PFOA	17.5 J

CV-MW08-S	3/2/17
Depth (ft bgs)	131.26
PFBS	3.85 U
PFOS	0.865 U
PFOA	1.92 U
CV-MW08-M	3/4/17
Depth (ft bgs)	165.21
PFBS	3.91 U
PFOS	0.879 U
PFOA	1.95 U
CV-MW01-M	2/28/17
Depth (ft bgs)	163.36
PFBS	3.94 U
PFOS	0.886 U
PFOA	1.97 U
CV-MW01-D	2/28/17
Depth (ft bgs)	217.42
PFBS	4 U
PFOS	0.9 U
PFOA	2 U
CV-MW02-S	3/1/17
Depth (ft bgs)	106.86
PFBS	332 D
PFOS	54.7
PFOA	571
CV-MW02-M	3/1/17
Depth (ft bgs)	167.96
PFBS	3.88 U
PFOS	0.872 U
PFOA	1.94 U
CV-MW05-S	2/24/17
Depth (ft bgs)	124.56
PFBS	12.9
PFOS	0.922 U
PFOA	9.87
CV-MW05-M	2/23/17
Depth (ft bgs)	175.35
PFBS	473
PFOS	3.26 J
PFOA	1190
CV-MW06-S	2/22/17
Depth (ft bgs)	140.43
PFBS	3.97 U
PFOS	0.893 U
PFOA	1.98 U
CV-MW06-M	2/21/17
Depth (ft bgs)	189.51
PFBS	3.91 U
PFOS	0.879 U
PFOA	1.95 U
CV-MW10-D	2/20/17
Depth (ft bgs)	206.67
PFBS	3.85 U
PFOS	0.865 U
PFOA	1.92 U
CV-MW10-S	2/22/17
Depth (ft bgs)	159.45
PFBS	3.07 J
PFOS	0.938 U
PFOA	2.08 U
CV-MW12-S	NA
Depth (ft bgs)	106.92
PFBS	NS
PFOS	NS
PFOA	NS
CV-MW12-D	3/1/17
Depth (ft bgs)	198.03
PFBS	3.97 U
PFOS	0.893 U
PFOA	1.98 U

CV-MW01-M	2/28/17
Depth (ft bgs)	163.36
PFBS	3.94 U
PFOS	0.886 U
PFOA	1.97 U
CV-MW01-D	2/28/17
Depth (ft bgs)	217.42
PFBS	4 U
PFOS	0.9 U
PFOA	2 U
CV-MW02-S	3/1/17
Depth (ft bgs)	106.86
PFBS	332 D
PFOS	54.7
PFOA	571
CV-MW02-M	3/1/17
Depth (ft bgs)	167.96
PFBS	3.88 U
PFOS	0.872 U
PFOA	1.94 U
CV-MW05-S	2/24/17
Depth (ft bgs)	124.56
PFBS	12.9
PFOS	0.922 U
PFOA	9.87
CV-MW05-M	2/23/17
Depth (ft bgs)	175.35
PFBS	473
PFOS	3.26 J
PFOA	1190
CV-MW06-S	2/22/17
Depth (ft bgs)	140.43
PFBS	3.97 U
PFOS	0.893 U
PFOA	1.98 U
CV-MW06-M	2/21/17
Depth (ft bgs)	189.51
PFBS	3.91 U
PFOS	0.879 U
PFOA	1.95 U
CV-MW10-D	2/20/17
Depth (ft bgs)	206.67
PFBS	3.85 U
PFOS	0.865 U
PFOA	1.92 U
CV-MW10-S	2/22/17
Depth (ft bgs)	159.45
PFBS	3.07 J
PFOS	0.938 U
PFOA	2.08 U
CV-MW12-S	NA
Depth (ft bgs)	106.92
PFBS	NS
PFOS	NS
PFOA	NS
CV-MW12-D	3/1/17
Depth (ft bgs)	198.03
PFBS	3.97 U
PFOS	0.893 U
PFOA	1.98 U

Notes
 PFBS - Perfluorobutanesulfonic acid
 PFOS - Perfluorooctane Sulfonate
 PFOA - Perfluorooctanoic acid
 LHA - lifetime health advisory
 units - nanograms per liter (ng/L)
 ft bgs - feet below ground surface
 NS - not sampled
 J - analyte detected, concentration is estimated
 U - not detected
 D - diluted sample
Bold indicates detection
 Shaded text indicates exceedance of USEPA LHA
 Samples were not collected from CV-GW09S and CV-GW12S because the wells were dry at the time of sampling.
 Samples collected from the wells within Buildings 2807 and 11 were analyzed by ALS-Kelso using Method 537 for drinking water.

- Legend**
- Base Supply Well
 - Monitoring well with no exceedance of LHA
 - Monitoring well with LHA exceedance
 - No detections of PFAS
 - Not Sampled
 - Direction of Middle Zone Groundwater Flow
 - Direction of Deep Zone Groundwater Flow
 - Base Boundary

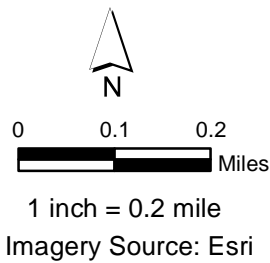


Figure 10
 Detections of PFAS in Groundwater
 Outlying Landing Field Coupeville
 Coupeville, Washington
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	LHA
PFBS	--
PFOS	70
PFOA	70