



**Groundwater Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, and Data Validation Report,
SDG 1700261**

*Naval Air Station Whidbey Island
Oak Harbor, Washington*

June 2019

March 02, 2017

Vista Work Order No. 1700261

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 February 24, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'NavyClean OLF Coupeville'.

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. 1700261

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

Modified EPA Method 537

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

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

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	19
Certifications.....	20
Sample Receipt.....	23

Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700261-01	WI-CV-GW10D-0217		20-Feb-17 11:45	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-02	WI-CV-EB01-022017		20-Feb-17 12:00	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-03	WI-CV-GW06S-0217		22-Feb-17 12:05	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-04	WI-CV-GW06SP-0217		22-Feb-17 11:05	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-05	WI-CV-GW10S-0217		22-Feb-17 10:00	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-06	WI-CV-EB03-022217		22-Feb-17 11:15	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-07	WI-CV-GW06M-0217	MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD	21-Feb-17 14:25	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-08	WI-CV-EB02-022117		21-Feb-17 16:10	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-09	WI-CV-EB04-022317		23-Feb-17 12:05	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-10	WI-CV-GW13M-0217		22-Feb-17 16:25	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537			
Matrix: Aqueous Sample Size: 0.125 L		QC Batch: B7B0118 Date Extracted: 24-Feb-2017 10:58		Lab Sample: B7B0118-BLK1 Date Analyzed: 01-Mar-17 18:05 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	115	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	97.7	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 L	QC Batch: B7B0118 Date Extracted: 24-Feb-2017 10:58	Lab Sample: B7B0118-BS1 Date Analyzed: 01-Mar-17 17:27 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	85.9	80.0	107	60 - 130	IS 13C3-PFBS	118	60 - 150
PFOA	84.0	80.0	105	70 - 130	IS 13C2-PFOA	99.8	60 - 150
PFOS	84.0	80.0	105	70 - 130	IS 13C8-PFOS	105	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: WI-CV-GW10D-0217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-01	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.130 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	20-Feb-2017 11:45				Date Analyzed:	01-Mar-17 18:30 Column: BEH C18			
Location:	WI-CV-MW10D								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.72	3.85	7.67		IS 13C3-PFBS	88.5	60 - 150	
PFOA	ND	0.624	1.92	7.67		IS 13C2-PFOA	97.0	60 - 150	
PFOS	ND	0.773	0.865	7.67		IS 13C8-PFOS	93.5	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.

Sample ID: WI-CV-EB01-022017**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-02	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.118 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	20-Feb-2017 12:00	Date Analyzed: 01-Mar-17 18:43 Column: BEH C18							
Location:	Equipment Blank								

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	107	60 - 150	
PFOA	ND	0.689	2.12	8.46		IS 13C2-PFOA	95.4	60 - 150	
PFOS	ND	0.854	0.953	8.46		IS 13C8-PFOS	107	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-GW06S-0217

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-03	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.126 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 12:05				Date Analyzed:	01-Mar-17 18:55 Column: BEH C18			
Location:	WI-CV-MW06S								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.77	3.97	7.93		IS 13C3-PFBS	114	60 - 150	
PFOA	ND	0.645	1.98	7.93		IS 13C2-PFOA	102	60 - 150	
PFOS	ND	0.800	0.893	7.93		IS 13C8-PFOS	99.0	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-GW06SP-0217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-04	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.127 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 11:05	Date Analyzed: 01-Mar-17 19:08 Column: BEH C18							
Location:	WI-CV-MW06S Spike								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.77	3.94	7.90		IS 13C3-PFBS	102	60 - 150	
PFOA	ND	0.643	1.97	7.90		IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.797	0.886	7.90		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: WI-CV-GW10S-0217**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-05	Date Received:	24-Feb-2017 7:32		
Project:	NavyClean OLF Coupeville	Sample Size:	0.120 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	22-Feb-2017 10:00			Date Analyzed:	01-Mar-17 19:20	Column:	BEH C18		
Location:	WI-CV-MW10S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3.07	1.87	4.17	8.35	J	IS 13C3-PFBS	95.9	60 - 150	
PFOA	ND	0.679	2.08	8.35		IS 13C2-PFOA	90.3	60 - 150	
PFOS	ND	0.842	0.938	8.35		IS 13C8-PFOS	100	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-EB03-022217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-06	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.119 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 11:15				Date Analyzed:	01-Mar-17 19:33 Column: BEH C18			
Location:	Equipment Blank								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.88	4.20	8.38		IS 13C3-PFBS	110	60 - 150	
PFOA	ND	0.682	2.10	8.38		IS 13C2-PFOA	105	60 - 150	
PFOS	ND	0.845	0.945	8.38		IS 13C8-PFOS	97.3	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-GW06M-0217

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-07	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.128 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	21-Feb-2017 14:25	Date Analyzed: 01-Mar-17 19:45 Column: BEH C18							
Location:	WI-CV-MW06M								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.81		IS 13C3-PFBS	107	60 - 150	
PFOA	ND	0.635	1.95	7.81		IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.787	0.879	7.81		IS 13C8-PFOS	110	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.

Matrix Spike Results

Modified EPA Method 537

Source Client ID: WI-CV-GW06M-0217	QC Batch: B7B0118	Lab Sample: B7B0118-MS1/B7B0118-MSD1
Source LabNumber: 1700261-07	Date Extracted: 24-Feb-2017 10:58	Date Analyzed: 01-Mar-17 20:10 Column: BEH C18
Matrix: Aqueous		01-Mar-17 19:58 Column: BEH C18
Sample Size: 0.129/0.128 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	MSD RPD	MSD Qual.	%R Limit	%RPD Limit	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
PFBS	77.6	119		78.0	113	5.17		60 - 130	25	IS 13C3-PFBS	95.0		99.9	
PFOA	77.6	99.4		78.0	105	5.48		70 - 130	25	IS 13C2-PFOA	111		103	
PFOS	77.6	87.3		78.0	102	15.5		70 - 130	25	IS 13C8-PFOS	114		104	

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-EB02-022117**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-08	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.124 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	21-Feb-2017 16:10								
Location:	Equipment Blank								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.03	8.07		IS 13C3-PFBS	91.5	60 - 150	
PFOA	ND	0.657	2.02	8.07		IS 13C2-PFOA	96.8	60 - 150	
PFOS	ND	0.815	0.907	8.07		IS 13C8-PFOS	95.4	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.

Sample ID: WI-CV-EB04-022317**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-09	Date Received:	24-Feb-2017 7:32		
Project:	NavyClean OLF Coupeville	Sample Size:	0.122 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	23-Feb-2017 12:05			Date Analyzed:	01-Mar-17 21:51	Column:	BEH C18		
Location:	Equipment Blank								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	2.99	1.84	4.10	8.23	J	IS 13C3-PFBS	86.5	60 - 150	
PFOA	2.55	0.670	2.05	8.23	J	IS 13C2-PFOA	107	60 - 150	
PFOS	ND	0.830	0.922	8.23		IS 13C8-PFOS	105	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-GW13M-0217

Modified EPA Method 537

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-10	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.129 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 16:25				Date Analyzed:	01-Mar-17 22:03	Column:	BEH C18	
Location:	WI-CV-MW13M								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	139	1.74	3.88	7.78		IS 13C3-PFBS	92.2	60 - 150	
PFOA	20.4	0.633	1.94	7.78		IS 13C2-PFOA	117	60 - 150	
PFOS	ND	0.785	0.872	7.78		IS 13C8-PFOS	106	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.

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: 1700261 Temp: 1.3 °C

Storage ID: WR-2 F7 Storage Secured: Yes No

Project ID: Mary Clean OLF Conterville P.O.#: 10006-7-100051 Sampler: Erin Dilger / Mark Endl
(name)

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

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

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Collin Hall <i>[Signature]</i>	2/23/17	1430	<i>[Signature]</i>	2/24/17	07:52

SHIP TO: Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520 * Fax (916) 673-0106				Add Analysis(es) Requested																Comments				
ATTN: <u>SAMPLE RECEIVING</u>				Container(s)																				
Method of Shipment: <u>FedEx overnight</u>				EPA 1613																				
Tracking No.:				EPA 8290																				
				EPA 8280																				
				EPA 1668																				
				EPA 1614																				
				CAFB#29																				
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	208 CONGENERS	PBDE	PAH	WHO-29	Mod. EPA 537		
WI-CV-ED04-022317	2/23/17	1205	Equipmt blank	2	O	GW																	X	
WI-CV-GW13M-0217	2/22/17	1625	WI-CV-MW13M	2	O	GW																	X	

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
Company: CH2M Hill
Address: 1100 NE Circle Blvd
City: ColVall's State: OR Zip: 97330
Phone: _____ Fax: _____
Email: Tiffany.Hill@ch2m.com

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

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

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

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700261 TAT 7

Samples Arrival:	Date/Time <u>2/24/17</u> <u>07:32</u>	Initials: <u>CR</u>	Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>2/24/17</u> <u>0853</u>	Initials: <u>SR</u> <u>JAB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>F7</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: <u>1.6</u> (uncorrected)	Time: <u>07:32</u>	Thermometer ID: IR-2	
Temp °C: <u>1.3</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # <u>8088 6658 4299</u>	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	<input type="checkbox"/> Na ₂ S ₂ O ₃	<input type="checkbox"/> Trizma	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain <input checked="" type="checkbox"/> Return <input type="checkbox"/> Dispose

Comments: "B" bottle:
 COC ID: WI-CV-GW105-0217
 Label ID: WI-CV-GW-105-0217

March 02, 2017

Vista Work Order No. 1700261

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 February 24, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'NavyClean OLF Coupeville'.

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. 1700261

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

Modified EPA Method 537

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

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

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	19
Certifications.....	20
Sample Receipt.....	23
Extraction Information.....	26
Sample Data - Modified EPA Method 537.....	30
Continuing Calibration.....	115
Initial Calibration.....	139

Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1700261-01	WI-CV-GW10D-0217		20-Feb-17 11:45	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-02	WI-CV-EB01-022017		20-Feb-17 12:00	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-03	WI-CV-GW06S-0217		22-Feb-17 12:05	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-04	WI-CV-GW06SP-0217		22-Feb-17 11:05	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-05	WI-CV-GW10S-0217		22-Feb-17 10:00	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-06	WI-CV-EB03-022217		22-Feb-17 11:15	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-07	WI-CV-GW06M-0217	MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD	21-Feb-17 14:25	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-08	WI-CV-EB02-022117		21-Feb-17 16:10	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-09	WI-CV-EB04-022317		23-Feb-17 12:05	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700261-10	WI-CV-GW13M-0217		22-Feb-17 16:25	24-Feb-17 07:32	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537			
Matrix: Aqueous		QC Batch: B7B0118		Lab Sample: B7B0118-BLK1		Date Analyzed: 01-Mar-17 18:05 Column: BEH C18			
Sample Size: 0.125 L		Date Extracted: 24-Feb-2017 10:58							
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	115	60 - 150	
PFOA	ND	0.651	2.00	8.00		IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.807	0.900	8.00		IS 13C8-PFOS	97.7	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 L	QC Batch: B7B0118 Date Extracted: 24-Feb-2017 10:58	Lab Sample: B7B0118-BS1 Date Analyzed: 01-Mar-17 17:27 Column: BEH C18					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	85.9	80.0	107	60 - 130	IS 13C3-PFBS	118	60 - 150
PFOA	84.0	80.0	105	70 - 130	IS 13C2-PFOA	99.8	60 - 150
PFOS	84.0	80.0	105	70 - 130	IS 13C8-PFOS	105	60 - 150

LCL-UCL - Lower control limit - upper control limit

Sample ID: WI-CV-GW10D-0217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-01	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.130 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	20-Feb-2017 11:45	Date Analyzed: 01-Mar-17 18:30 Column: BEH C18							
Location:	WI-CV-MW10D								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.72	3.85	7.67		IS 13C3-PFBS	88.5	60 - 150	
PFOA	ND	0.624	1.92	7.67		IS 13C2-PFOA	97.0	60 - 150	
PFOS	ND	0.773	0.865	7.67		IS 13C8-PFOS	93.5	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.

Sample ID: WI-CV-EB01-022017**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-02	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.118 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	20-Feb-2017 12:00								
Location:	Equipment Blank								
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	107	60 - 150	
PFOA	ND	0.689	2.12	8.46		IS 13C2-PFOA	95.4	60 - 150	
PFOS	ND	0.854	0.953	8.46		IS 13C8-PFOS	107	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-GW06S-0217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-03	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.126 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 12:05	Date Analyzed: 01-Mar-17 18:55 Column: BEH C18							
Location:	WI-CV-MW06S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.77	3.97	7.93		IS 13C3-PFBS	114	60 - 150	
PFOA	ND	0.645	1.98	7.93		IS 13C2-PFOA	102	60 - 150	
PFOS	ND	0.800	0.893	7.93		IS 13C8-PFOS	99.0	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-GW06SP-0217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-04	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.127 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 11:05	Date Analyzed: 01-Mar-17 19:08 Column: BEH C18							
Location:	WI-CV-MW06S Spike								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.77	3.94	7.90		IS 13C3-PFBS	102	60 - 150	
PFOA	ND	0.643	1.97	7.90		IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.797	0.886	7.90		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: WI-CV-GW10S-0217**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-05	Date Received:	24-Feb-2017 7:32		
Project:	NavyClean OLF Coupeville	Sample Size:	0.120 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	22-Feb-2017 10:00			Date Analyzed:	01-Mar-17 19:20	Column:	BEH C18		
Location:	WI-CV-MW10S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3.07	1.87	4.17	8.35	J	IS 13C3-PFBS	95.9	60 - 150	
PFOA	ND	0.679	2.08	8.35		IS 13C2-PFOA	90.3	60 - 150	
PFOS	ND	0.842	0.938	8.35		IS 13C8-PFOS	100	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-EB03-022217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-06	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.119 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 11:15				Date Analyzed:	01-Mar-17 19:33 Column: BEH C18			
Location:	Equipment Blank								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.88	4.20	8.38		IS 13C3-PFBS	110	60 - 150	
PFOA	ND	0.682	2.10	8.38		IS 13C2-PFOA	105	60 - 150	
PFOS	ND	0.845	0.945	8.38		IS 13C8-PFOS	97.3	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-GW06M-0217**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-07	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.128 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	21-Feb-2017 14:25				Date Analyzed:	01-Mar-17 19:45 Column: BEH C18			
Location:	WI-CV-MW06M								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.81		IS 13C3-PFBS	107	60 - 150	
PFOA	ND	0.635	1.95	7.81		IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.787	0.879	7.81		IS 13C8-PFOS	110	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.

Matrix Spike Results

Modified EPA Method 537

Source Client ID: WI-CV-GW06M-0217	QC Batch: B7B0118	Lab Sample: B7B0118-MS1/B7B0118-MSD1
Source LabNumber: 1700261-07	Date Extracted: 24-Feb-2017 10:58	Date Analyzed: 01-Mar-17 20:10 Column: BEH C18
Matrix: Aqueous		01-Mar-17 19:58 Column: BEH C18
Sample Size: 0.129/0.128 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	MSD RPD	MSD Qual.	%R Limit	%RPD Limit	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
PFBS	77.6	119		78.0	113	5.17		60 - 130	25	IS 13C3-PFBS	95.0		99.9	
PFOA	77.6	99.4		78.0	105	5.48		70 - 130	25	IS 13C2-PFOA	111		103	
PFOS	77.6	87.3		78.0	102	15.5		70 - 130	25	IS 13C8-PFOS	114		104	

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-EB02-022117**Modified EPA Method 537**

Client Data		Sample Data			Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater		Lab Sample:	1700261-08	Date Received:	24-Feb-2017 7:32	
Project:	NavyClean OLF Coupeville	Sample Size:	0.124 L		QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	21-Feb-2017 16:10	Date Analyzed: 01-Mar-17 20:23 Column: BEH C18							
Location:	Equipment Blank								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.81	4.03	8.07		IS 13C3-PFBS	91.5	60 - 150	
PFOA	ND	0.657	2.02	8.07		IS 13C2-PFOA	96.8	60 - 150	
PFOS	ND	0.815	0.907	8.07		IS 13C8-PFOS	95.4	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.

Sample ID: WI-CV-EB04-022317**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-09	Date Received:	24-Feb-2017 7:32		
Project:	NavyClean OLF Coupeville	Sample Size:	0.122 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	23-Feb-2017 12:05			Date Analyzed:	01-Mar-17 21:51	Column:	BEH C18		
Location:	Equipment Blank								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	2.99	1.84	4.10	8.23	J	IS 13C3-PFBS	86.5	60 - 150	
PFOA	2.55	0.670	2.05	8.23	J	IS 13C2-PFOA	107	60 - 150	
PFOS	ND	0.830	0.922	8.23		IS 13C8-PFOS	105	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-GW13M-0217

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-10	Date Received:	24-Feb-2017 7:32
Project:	NavyClean OLF Coupeville	Sample Size:	0.129 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58
Date Collected:	22-Feb-2017 16:25			Date Analyzed:	01-Mar-17 22:03	Column:	BEH C18
Location:	WI-CV-MW13M						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	139	1.74	3.88	7.78		IS 13C3-PFBS	92.2	60 - 150	
PFOA	20.4	0.633	1.94	7.78		IS 13C2-PFOA	117	60 - 150	
PFOS	ND	0.785	0.872	7.78		IS 13C8-PFOS	106	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.

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: 1700261 Temp: 1.3 °C
 Storage ID: WK-2 F7 Storage Secured: Yes No

PN: 679580.06 FI.VS
 Project ID: NAKCLEW OLF COLDEWILLE P.O.#: 10006-7-106051 Sampler: Eres Bilyer / MANUEL ENDO
 (name)

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

Invoice to: Name Collin Hall J Co Company CHAM Address 2/23/17 1430 City _____ State _____ Ph# _____ Fax# _____

Relinquished by (printed name and signature) [Signature] Date _____ Time _____ Received by (printed name and signature) _____ Date 2/29/17 Time 08:32

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: FedEx overnight

Add Analysis(es) Requested

Container(s)

Tracking No.: _____

ATTN: Sample Receiving

Sample ID	Date	Time	Location/Sample Description	Quantity		Matrix	Add Analysis(es) Requested															Comments					
				Type	Matrix		2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	20g CONGENERS	PBDE	PAH	WHO-29		Met EPA 537				
WI-CV-GW10D-0217	2/21/17	1145	WI-CV-MW10D	2	0	GW																				X	
WI-CV-EB01-022017	2/21/17	1200	EQUIPMENT BLANK	2	0	GW																				X	
WI-CV-GW06S-0217	2/21/17	1205	WI-CV-MW06S	2	0	GW																				X	
WI-CV-GW06S/SP-0217	2/21/17	1105	WI-CV-MW06S ^{spike} blank	2	0	GW																				X	
WI-CV-GW10S-0217	2/22/17	1000	WI-CV-MW10S	2	0	GW																				X	
WI-CV-EB03-02217	2/22/17	1115	EQUIPMENT BLANK	2	0	GW																				X	
WI-CV-GW06M-0217	2/21/17	1425	WI-CV-MW06M	2	0	GW																				X	
WI-CV-GW06M-0217-M5	2/21/17	1425	MW06M Mat: x spike	2	0	GW																				X	
WI-CV-GW06M-0217-M2	2/21/17	1425	MW06M Mat: x spike	2	0	GW																				X	
WI-CV-EB02-02217	2/21/17	1610	Eq.ipment blank	2	0	GW																				X	

Special Instructions/Comments: 1

SEND DOCUMENTATION AND RESULTS TO:

Name: TIFFANY HILL
 Company: CH2M HILL
 Address: 1100 NE Circle Blvd
 City: COVINGTON State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: Tiffany.Hill@ch2m.com

Container Types: A = 1 Liter Amber, G = Glass Jar
 P = PUF, T = MMS, O = Other: 1.25 ml HDPE

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

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

CHAIN OF CUSTODY

For Laboratory Use Only

Laboratory Project ID: 1700261 Temp: 1.3 °C
 Storage ID: WR-2 F7 Storage Secured: Yes No

Project ID: Mary Clean OLF Conterville P.O.#: 10006-7-100051 Sampler: Erin Dilger / Mark Endl
 (name)

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

Invoice to: Name	Company	Address	City	State	Ph#	Fax#
Katie Tippin	CH2M					
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time	
Collin Hall <i>[Signature]</i>	2/23/17	1430	<i>[Signature]</i>	2/24/17	07:52	
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:
FedEx overnight

Add Analysis(es) Requested
 Container(s)
 EPA 1613
 EPA 8290
 EPA 8280
 EPA 1668
 EPA 1614
 CARB#29

ATTN: SAMPLE RECEIVING

Tracking No.: _____

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	208 CONGENERS	PBDE	PAH	WHO-29	Mod. EPA 537	Comments	
WI-CV-ED04-022317	2/23/17	1205	Equipmt blank	2	O	GW																	X	
WI-CV-GW13M-0217	2/22/17	1625	WI-CV-MW13M	2	O	GW																	X	

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: Tiffany Hill
 Company: CH2M Hill
 Address: 1100 NE Circle Blvd
 City: ColVall's State: OR Zip: 97330
 Phone: _____ Fax: _____
 Email: Tiffany.Hill@ch2m.com

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

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

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

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700261 TAT 7

Samples Arrival:	Date/Time <u>2/24/17</u> <u>07:32</u>	Initials: <u>CR</u>	Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>2/24/17</u> <u>0853</u>	Initials: <u>SR</u> <u>JAB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>F7</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: <u>1.6</u> (uncorrected)	Time: <u>07:32</u>	Thermometer ID: IR-2	
Temp °C: <u>1.3</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # <u>8088 6658 4299</u>	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	<input type="checkbox"/> Na ₂ S ₂ O ₃	<input type="checkbox"/> Trizma	<input type="checkbox"/> Yes
			<input checked="" type="radio"/> No
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="radio"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="radio"/> Return
			<input type="checkbox"/> Dispose

Comments: "B" bottle:
 COC ID: WI-CV-GW105-0217
 Label ID: WI-CV-GW-105-0217

EXTRACTION INFORMATION

Process Sheet
 Workorder: **1700261**



Prep Expiration: 2017-Mar-06
 Client: CH2M Hill

Workorder Due: 03-Mar-17 00:00

TAT: 7

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

Prep Batch: B7B0118

Version: PFOA, PFOS, PFBS

Prep Data Entered: BP 2.28.17
 Date and Initials

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700261-01	<input checked="" type="checkbox"/>	WI-CV-GW10D-0217	24-Feb-17 07:32	WR-2 F-7	
1700261-02	<input checked="" type="checkbox"/>	WI-CV-EB01-022017	24-Feb-17 07:32	WR-2 F-7	
1700261-03	<input checked="" type="checkbox"/>	WI-CV-GW06S-0217	24-Feb-17 07:32	WR-2 F-7	
1700261-04	<input checked="" type="checkbox"/>	WI-CV-GW06SP-0217	24-Feb-17 07:32	WR-2 F-7	
1700261-05	<input checked="" type="checkbox"/>	WI-CV-GW10S-0217	24-Feb-17 07:32	WR-2 F-7	
1700261-06	<input checked="" type="checkbox"/>	WI-CV-EB03-022217	24-Feb-17 07:32	WR-2 F-7	
1700261-07	<input checked="" type="checkbox"/>	WI-CV-GW06M-0217	24-Feb-17 07:32	WR-2 F-7	MS/MSD
1700261-08	<input checked="" type="checkbox"/>	WI-CV-EB02-022117	24-Feb-17 07:32	WR-2 F-7	
1700261-09	<input checked="" type="checkbox"/>	WI-CV-EB04-022317	24-Feb-17 07:32	WR-2 F-7	
1700261-10	<input checked="" type="checkbox"/>	WI-CV-GW13M-0217	24-Feb-17 07:32	WR-2 F-7	

Vista PM: Martha Maier

Vial Box ID: Badger

Sample Reconciled By: [Signature] 2/24/17
 Page 1 of 1

Percent Solids



Project: B7B0118

Balance ID: HRMS9

Sample ID	Chemist: <u>NA</u> Date: <u>J</u> Time: <u>J</u>		Chemist: <u>NA</u> Date: <u>J</u> Time: <u>J</u>		Chemist/Date <u>JS 2/24/17</u>	
	Boat Wt.	Sample + Boat Wt.	Residue + Boat Wt.	pH before	pH* after	CF
1700261 - 01 (B)				8	2	0
- 02 (A)				5	2	0
- 03 (B)				8	2	0
- 04 (B)				8	2	0
- 05 (B)				8	2	0
- 06 (A)				5	2	0
- 07 (A) (B)				8	2	0
- 07 (B) (B)				8	2	0
- 07 (C) (B)				8	2	0
- 08 (A)				5	2	0
- 09 (A)				5	2	0
- 10 (B)				8	2	0

JS 2/24/17

- 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:**
- (A) 2 drops HCl used to adjust pH. JS 2/24/17
 - (B) 3 drops HCl used to adjust pH.
 - 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)

B7B0118

Chemist: E. Schneider

Prep Date/Time: 24-Feb-17 10:58

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	C7B0123 SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B7B0118-BLK1	NA	NA	(0.125)	ES JS 2/24/17	JS 2/24/17	ES JS 2/24/17
<input type="checkbox"/>	B7B0118-BS1	↓	↓	↓			
<input type="checkbox"/>	B7B0118-MS1 1700261-07	155.99	27.05	0.12844	↓	↓	↓
<input type="checkbox"/>	B7B0118-MSD1 1700261-07	155.16	26.96	0.12820			
<input type="checkbox"/>	1700261-01	157.58	27.14	0.13044			
<input type="checkbox"/>	1700261-02	145.31	27.16	0.11815			
<input type="checkbox"/>	1700261-03	153.24	27.14	0.12610			
<input type="checkbox"/>	1700261-04	153.60	27.07	0.12653			
<input type="checkbox"/>	1700261-05	146.92	27.09	0.11983			
<input type="checkbox"/>	1700261-06	146.40	27.08	0.11932			
<input type="checkbox"/>	1700261-07	155.14	27.04	0.12812			
<input type="checkbox"/>	1700261-08	150.87	27.03	0.12354			
<input type="checkbox"/>	1700261-09 ^(A)	148.60	27.08	0.12152			
<input type="checkbox"/>	1700261-10	155.66	27.09	0.12857			

(A) Sample took ~20 minutes longer on SPE than other samples. JS 2/24/17

(B) Samples spiked for RS on 2/24/17 but failed to sum. DM 2/28/17

IS Name <u>VZ</u> 16L1920, 10µL	NS Name <u>VI</u> 16I2905, 10µL	RS Name <u>VR</u> 17A1201, 10µL	SPE Chem: <u>Skata KAW 33mm 2µm/6µm</u>	Check Out: <u>JS 2/24/17</u> Chemist/Date:
			Ele SOLV: <u>0.500 Nitro H in MeOH + MeOH</u>	Check In: <u>NA</u> Chemist/Date:
			Final Volume(s) <u>1mL</u>	Balance ID: <u>HRMS9</u>

Comments: Assume 1 g = 1 mL

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-16.qld

Last Altered: Thursday, March 02, 2017 10:39:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:39:25 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170301G1_16, Date: 01-Mar-2017, Time: 18:05:24

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.894e3		0.125			
2	4 PFOA	413 > 368.7	1.628e2	2.460e4		0.125	4.28		
3	6 PFOS	499 >79.9		6.720e3		0.125			
4	7 13C3-PFBS	302.0 > 98.8	6.894e3	1.351e4	0.442	0.125	2.98	115	115
5	10 13C2-PFOA	414.9 > 369.7	2.460e4	8.370e3	2.782	0.125	4.28	106	106
6	12 13C8-PFOS	507.0 > 79.9	6.720e3	7.304e3	0.941	0.125	4.67	97.7	97.7
7	14 13C3-PFHxS	401.9 > 79.9	1.351e4	1.351e4	1.000	0.125	3.98	100	100
8	15 13C8-PFOA	421.3 > 376	8.370e3	8.370e3	1.000	0.125	4.27	100	100
9	17 13C4-PFOS	503.0 > 79.9	7.304e3	7.304e3	1.000	0.125	4.67	100	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-16.qld

Last Altered: Thursday, March 02, 2017 10:39:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:40:18 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170301G1_16, Date: 01-Mar-2017, Time: 18:05:24

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		6.074e3		0.125			
2	20 Total PFOA	413 > 368.7		2.460e4		0.125			
3	21 Total PFOS	499 > 79.9		6.720e3		0.125			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-16.qld

Last Altered: Thursday, March 02, 2017 10:39:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:39:25 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170301G1_16, Date: 01-Mar-2017, Time: 18:05:24

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	3.99	41.283	6073.926	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	162.750	24597.111	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-16.qld

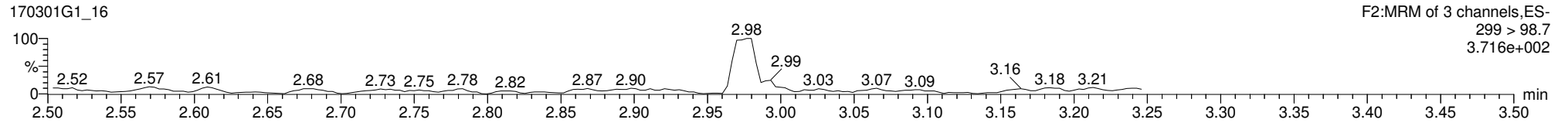
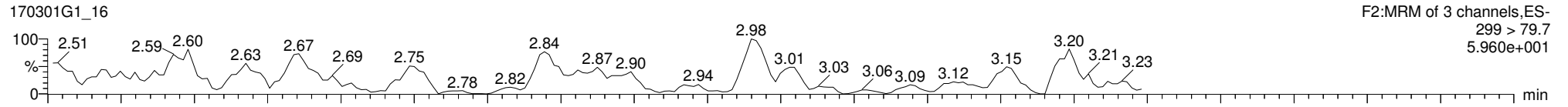
Last Altered: Thursday, March 02, 2017 10:39:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:39:25 Pacific Standard Time

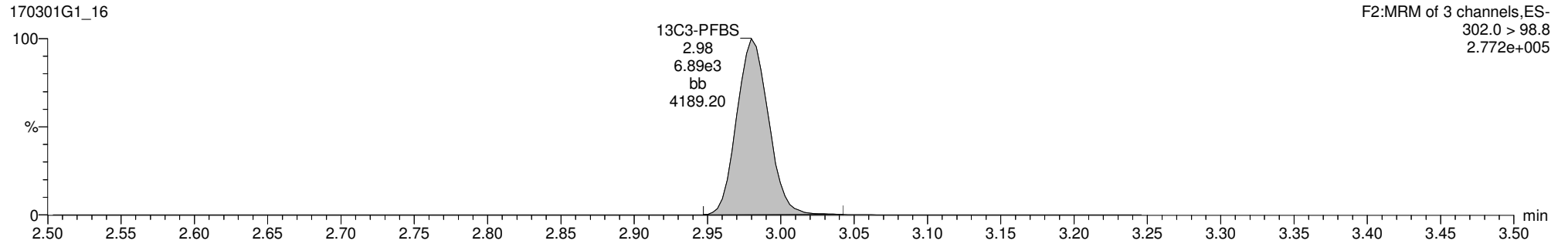
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170301G1_16, Date: 01-Mar-2017, Time: 18:05:24, Instrument: , Lab: , User:

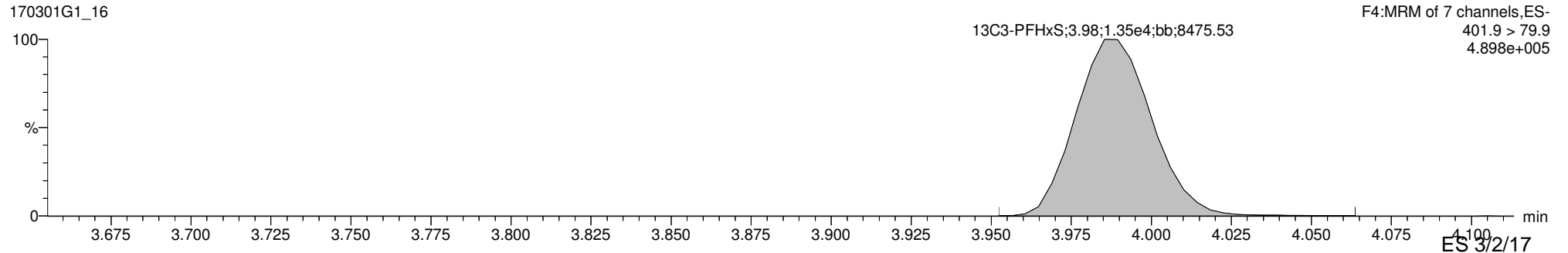
PFBS



13C3-PFBS



13C3-PFHxS



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-16.qld

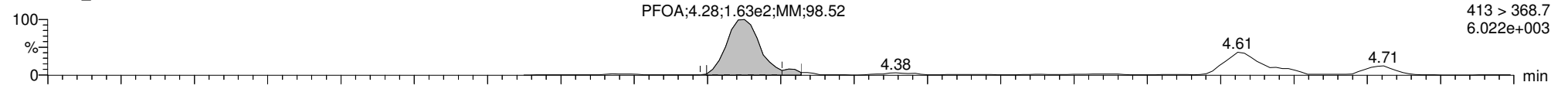
Last Altered: Thursday, March 02, 2017 10:39:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:39:25 Pacific Standard Time

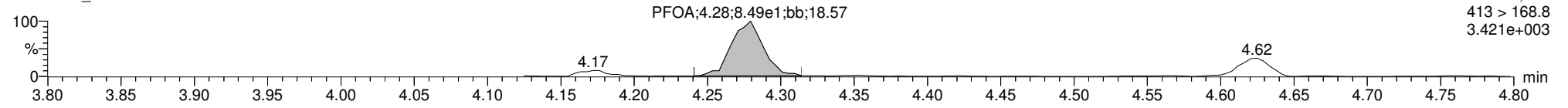
ID: B7B0118-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170301G1_16, Date: 01-Mar-2017, Time: 18:05:24, Instrument: , Lab: , User:

Total PFOA

170301G1_16

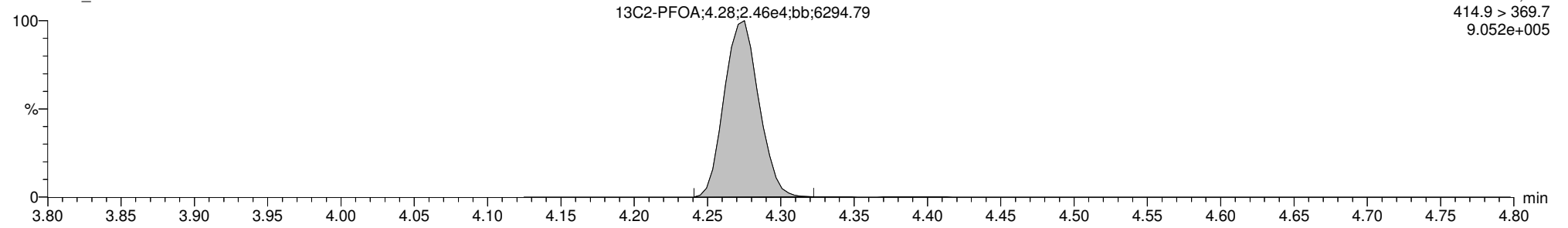


170301G1_16



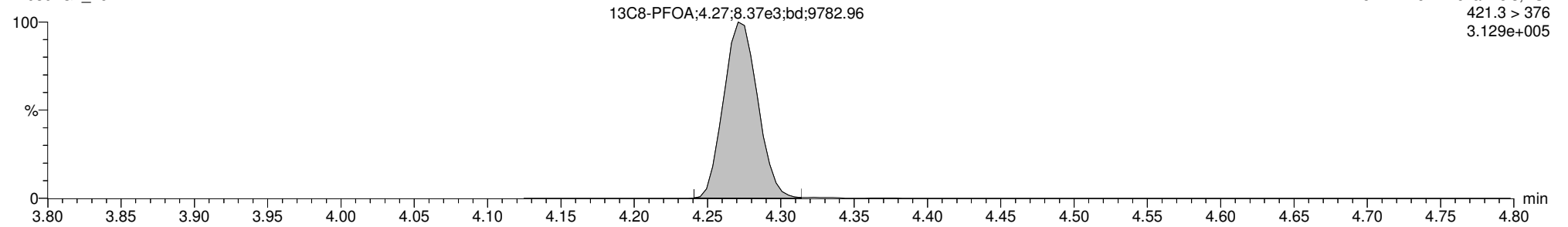
13C2-PFOA

170301G1_16



13C8-PFOA

170301G1_16



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-16.qld

Last Altered: Thursday, March 02, 2017 10:39:01 Pacific Standard Time

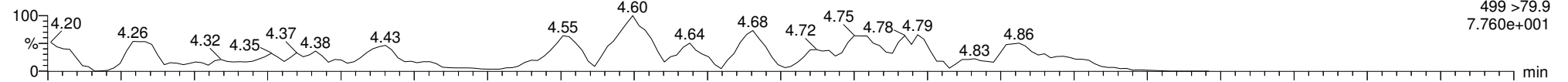
Printed: Thursday, March 02, 2017 10:39:25 Pacific Standard Time

ID: B7B0118-BLK1 Method Blank 0.125, Description: Method Blank, Name: 170301G1_16, Date: 01-Mar-2017, Time: 18:05:24, Instrument: , Lab: , User:

Total PFOS

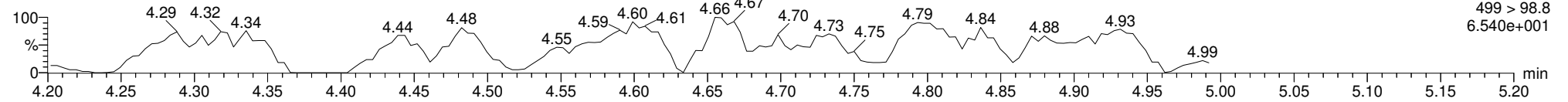
170301G1_16

F5:MRM of 12 channels,ES-
499 >79.9
7.760e+001



170301G1_16

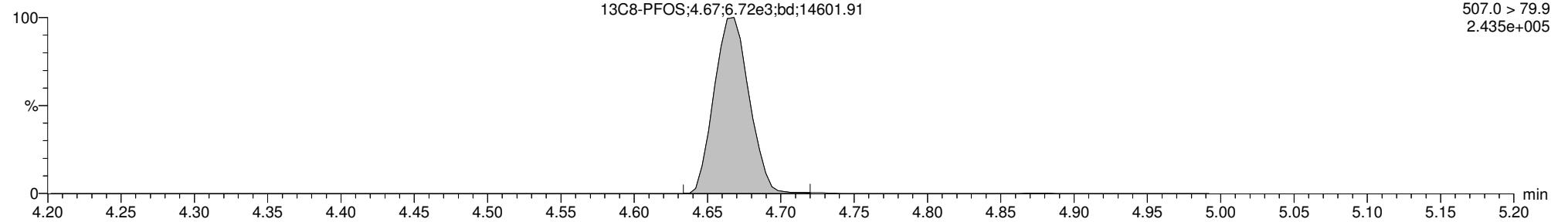
F5:MRM of 12 channels,ES-
499 > 98.8
6.540e+001



13C8-PFOS

170301G1_16

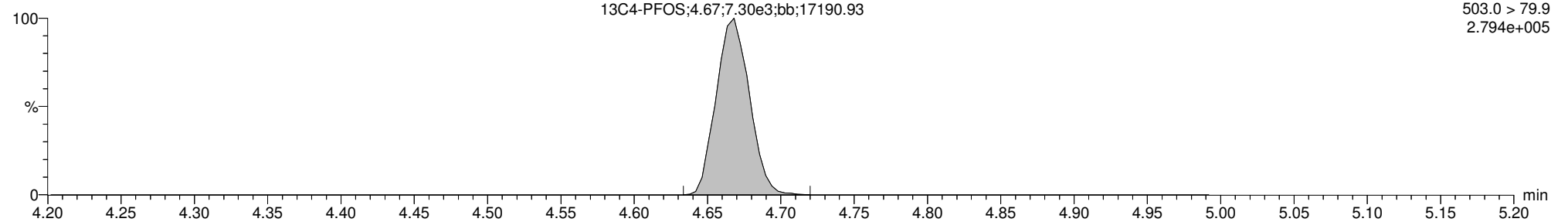
F5:MRM of 12 channels,ES-
507.0 > 79.9
2.435e+005



13C4-PFOS

170301G1_16

F5:MRM of 12 channels,ES-
503.0 > 79.9
2.794e+005



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-13.qld

Last Altered: Thursday, March 02, 2017 10:37:21 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:37:35 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BS1 OPR 0.125, Description: OPR, Name: 170301G1_13, Date: 01-Mar-2017, Time: 17:27:46

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.235e4	6.683e3		0.125	2.98	85.8	107
2	4 PFOA	413 > 368.7	1.733e4	2.238e4		0.125	4.28	84.0	105
3	6 PFOS	499 >79.9	2.748e3	6.273e3		0.125	4.67	84.0	105
4	7 13C3-PFBS	302.0 > 98.8	6.683e3	1.277e4	0.442	0.125	2.98	118	118
5	10 13C2-PFOA	414.9 > 369.7	2.238e4	8.061e3	2.782	0.125	4.28	99.8	99.8
6	12 13C8-PFOS	507.0 > 79.9	6.273e3	6.328e3	0.941	0.125	4.67	105	105
7	14 13C3-PFHxS	401.9 > 79.9	1.277e4	1.277e4	1.000	0.125	3.99	100	100
8	15 13C8-PFOA	421.3 > 376	8.061e3	8.061e3	1.000	0.125	4.27	100	100
9	17 13C4-PFOS	503.0 > 79.9	6.328e3	6.328e3	1.000	0.125	4.67	100	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-13.qld

Last Altered: Thursday, March 02, 2017 10:37:21 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:37:49 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BS1 OPR 0.125, Description: OPR, Name: 170301G1_13, Date: 01-Mar-2017, Time: 17:27:46

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.288e3		0.125		85.9	
2	20 Total PFOA	413 > 368.7		2.238e4		0.125		84.0	
3	21 Total PFOS	499 > 79.9		6.273e3		0.125		84.0	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-13.qld

Last Altered: Thursday, March 02, 2017 10:37:21 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:37:35 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BS1 OPR 0.125, Description: OPR, Name: 170301G1_13, Date: 01-Mar-2017, Time: 17:27:46

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	18 Total PFBS	299 > 79.7	3.12	6.648	5287.653	0.1
2	1 PFBS	299 > 79.7	2.98	12350.464	6682.721	85.8

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	3.99	6803.180	5287.653	72.8
2	19 Total PFHxS	398.9 > 79.6	3.89	1264.072	5287.653	13.0
3	19 Total PFHxS	398.9 > 79.6	3.87	488.458	5287.653	4.6
4	19 Total PFHxS	398.9 > 79.6	3.78	5.703	5287.653	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	17328.156	22379.910	84.0

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFOS	499 > 79.9	4.67	2747.801	6273.412	84.0

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-13.qld

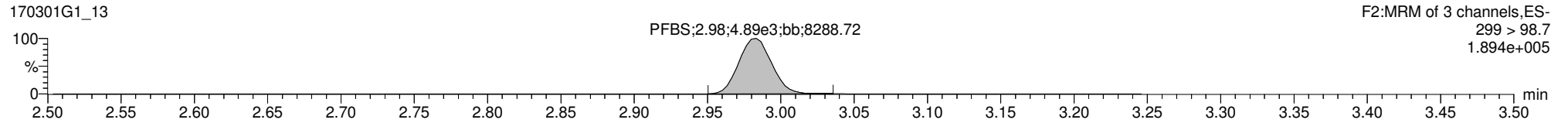
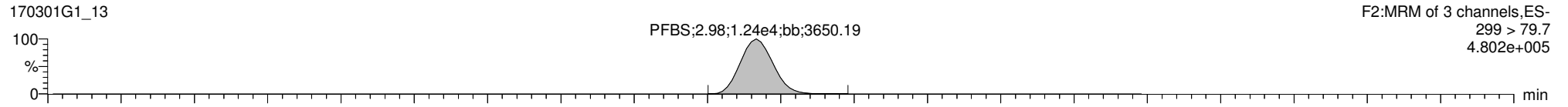
Last Altered: Thursday, March 02, 2017 10:37:21 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:37:35 Pacific Standard Time

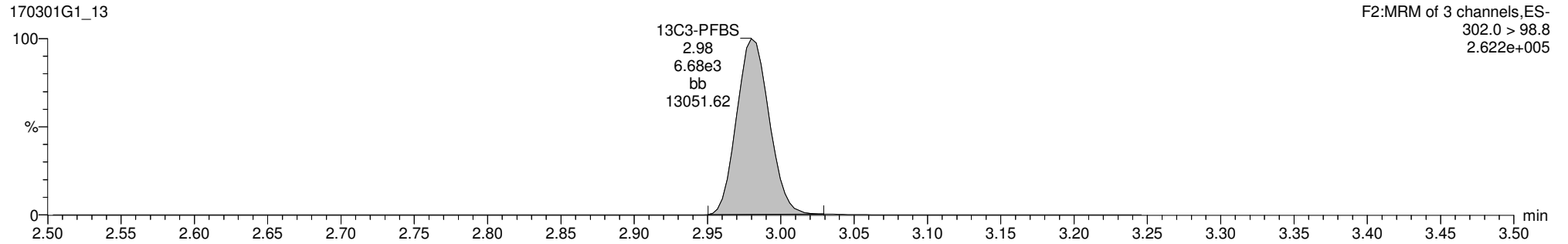
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-BS1 OPR 0.125, Description: OPR, Name: 170301G1_13, Date: 01-Mar-2017, Time: 17:27:46, Instrument: , Lab: , User:

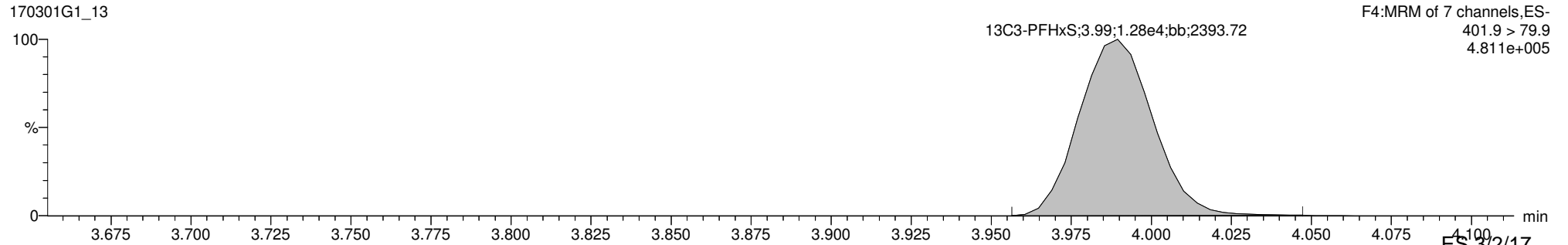
PFBS



13C3-PFBS



13C3-PFHxS



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-13.qld

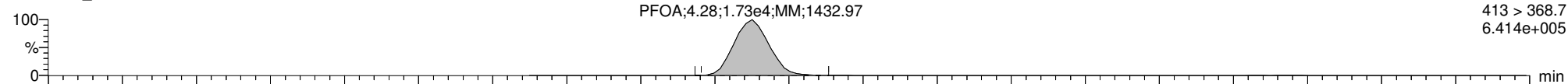
Last Altered: Thursday, March 02, 2017 10:37:21 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:37:35 Pacific Standard Time

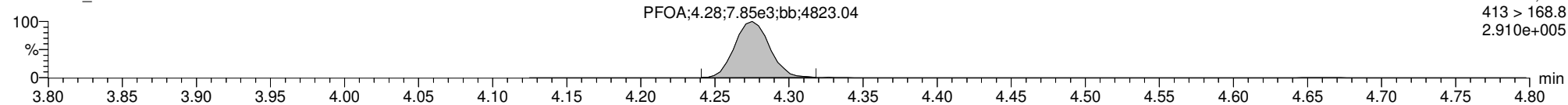
ID: B7B0118-BS1 OPR 0.125, Description: OPR, Name: 170301G1_13, Date: 01-Mar-2017, Time: 17:27:46, Instrument: , Lab: , User:

Total PFOA

170301G1_13

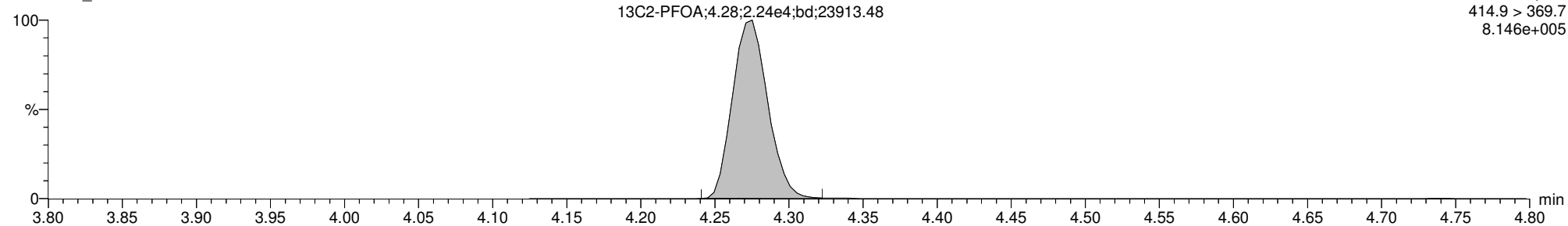


170301G1_13



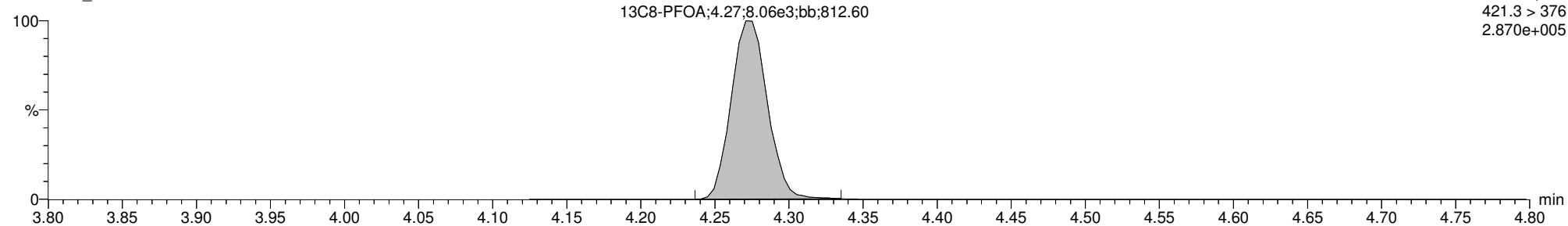
13C2-PFOA

170301G1_13



13C8-PFOA

170301G1_13



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-13.qld

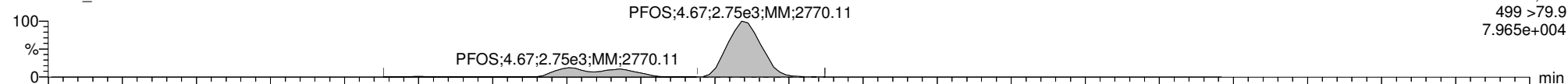
Last Altered: Thursday, March 02, 2017 10:37:21 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:37:35 Pacific Standard Time

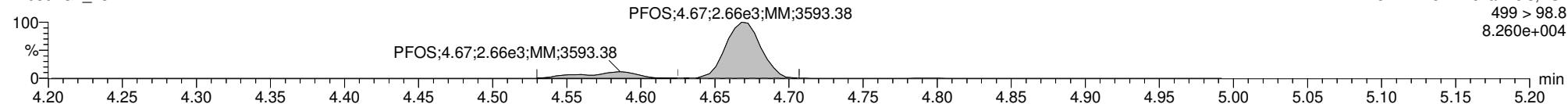
ID: B7B0118-BS1 OPR 0.125, Description: OPR, Name: 170301G1_13, Date: 01-Mar-2017, Time: 17:27:46, Instrument: , Lab: , User:

Total PFOS

170301G1_13

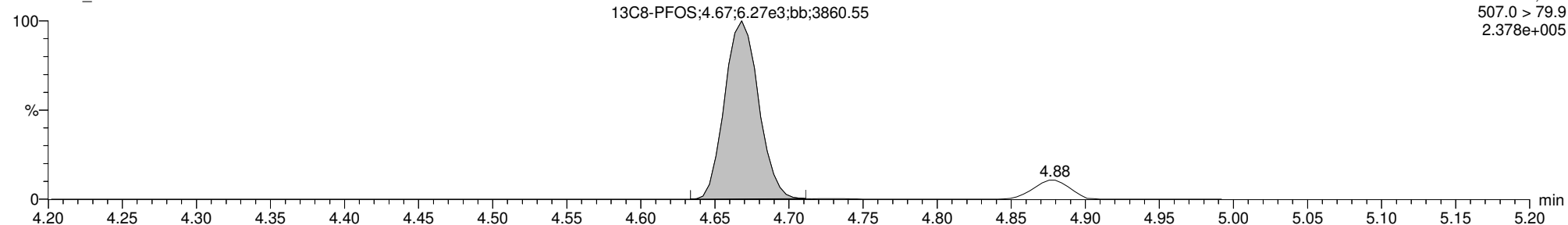


170301G1_13



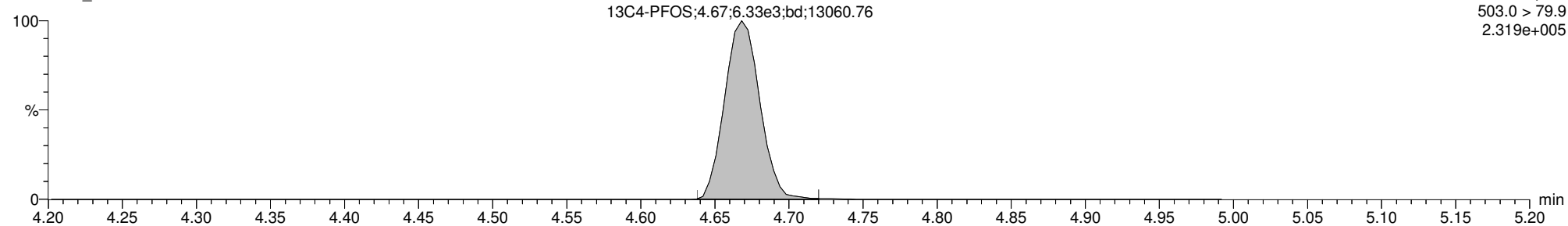
13C8-PFOS

170301G1_13



13C4-PFOS

170301G1_13



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-18.qld

Last Altered: Thursday, March 02, 2017 10:41:27 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:41:42 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-01 WI-CV-GW10D-0217 0.125, Description: WI-CV-GW10D-0217, Name: 170301G1_18, Date: 01-Mar-2017, Time: 18:30:28

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.908e3		0.130			
2	4 PFOA	413 > 368.7	1.427e2	3.491e4		0.130	4.27		
3	6 PFOS	499 >79.9		1.251e4		0.130			
4	7 13C3-PFBS	302.0 > 98.8	6.908e3	1.765e4	0.442	0.130	2.98	84.8	88.5
5	10 13C2-PFOA	414.9 > 369.7	3.491e4	1.294e4	2.782	0.130	4.27	92.9	97.0
6	12 13C8-PFOS	507.0 > 79.9	1.251e4	1.422e4	0.941	0.130	4.67	89.6	93.5
7	14 13C3-PFHxS	401.9 > 79.9	1.765e4	1.765e4	1.000	0.130	3.99	95.8	100
8	15 13C8-PFOA	421.3 > 376	1.294e4	1.294e4	1.000	0.130	4.27	95.8	100
9	17 13C4-PFOS	503.0 > 79.9	1.422e4	1.422e4	1.000	0.130	4.67	95.8	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-18.qld

Last Altered: Thursday, March 02, 2017 10:41:27 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:41:54 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-01 WI-CV-GW10D-0217 0.125, Description: WI-CV-GW10D-0217, Name: 170301G1_18, Date: 01-Mar-2017, Time: 18:30:28

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		6.834e3		0.130			
2	20 Total PFOA	413 > 368.7		3.491e4		0.130			
3	21 Total PFOS	499 > 79.9		1.251e4		0.130			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-18.qld

Last Altered: Thursday, March 02, 2017 10:41:27 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:41:42 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-01 WI-CV-GW10D-0217 0.125, Description: WI-CV-GW10D-0217, Name: 170301G1_18, Date: 01-Mar-2017, Time: 18:30:28

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	1 PFBS	299 > 79.7			6907.765	

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	3.98	52.755	6833.805	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.27	142.672	34913.324	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-18.qld

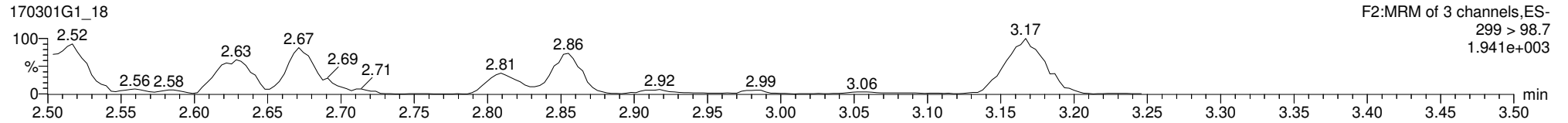
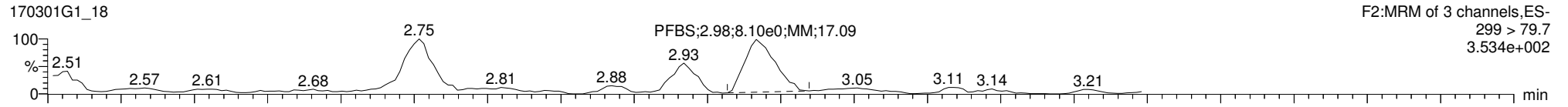
Last Altered: Thursday, March 02, 2017 10:41:27 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:41:42 Pacific Standard Time

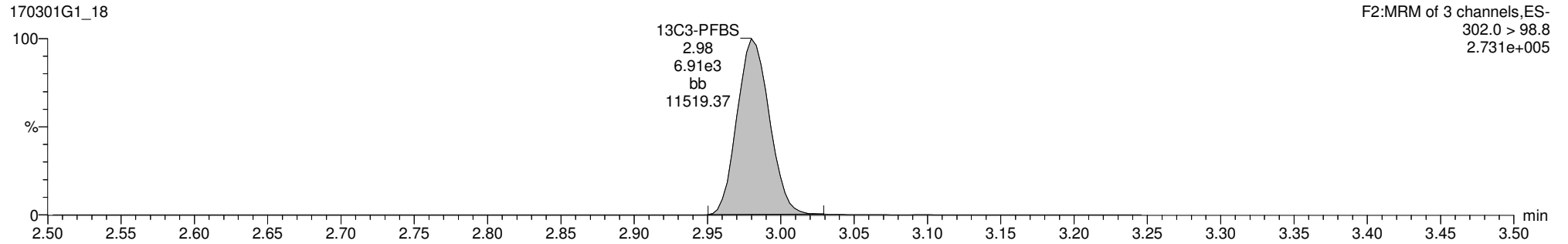
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-01 WI-CV-GW10D-0217 0.125, Description: WI-CV-GW10D-0217, Name: 170301G1_18, Date: 01-Mar-2017, Time: 18:30:28, Instrument: , Lab: , User:

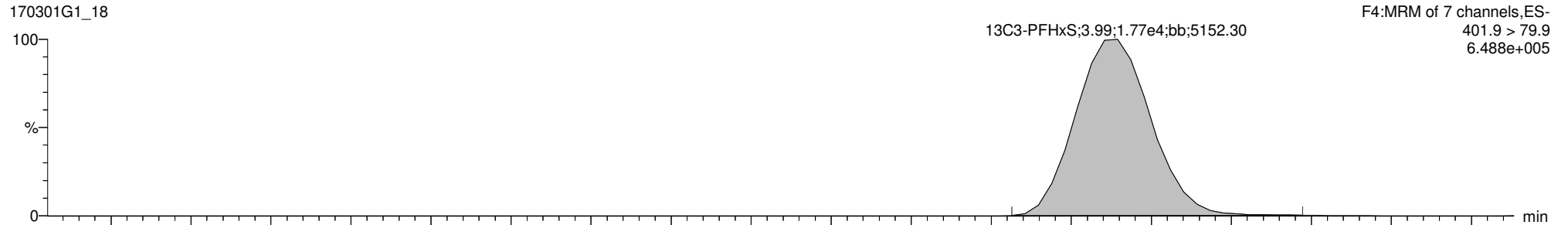
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-18.qld

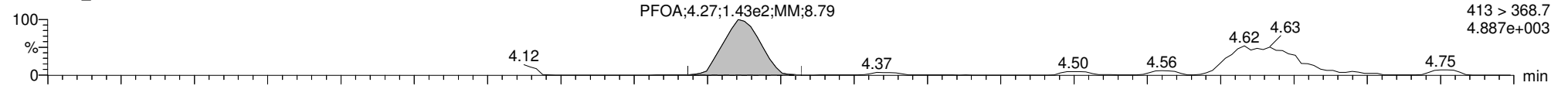
Last Altered: Thursday, March 02, 2017 10:41:27 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:41:42 Pacific Standard Time

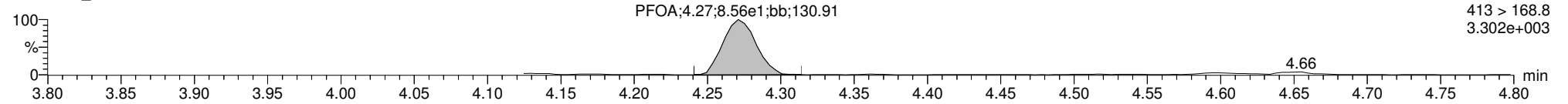
ID: 1700261-01 WI-CV-GW10D-0217 0.125, Description: WI-CV-GW10D-0217, Name: 170301G1_18, Date: 01-Mar-2017, Time: 18:30:28, Instrument: , Lab: , User:

Total PFOA

170301G1_18

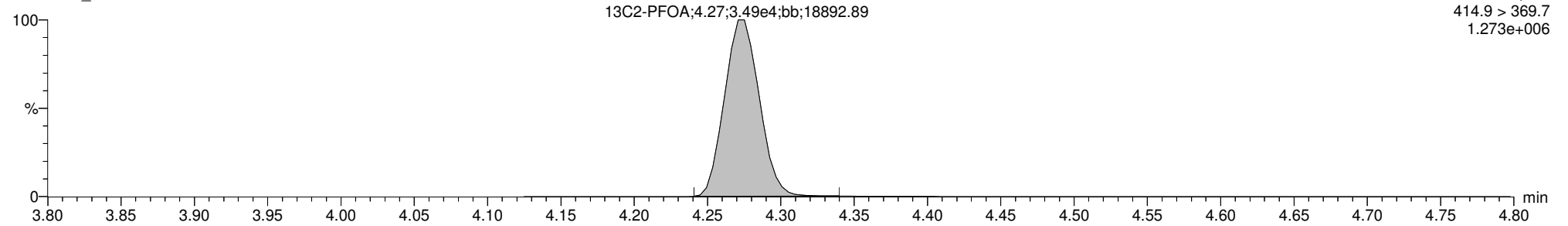


170301G1_18



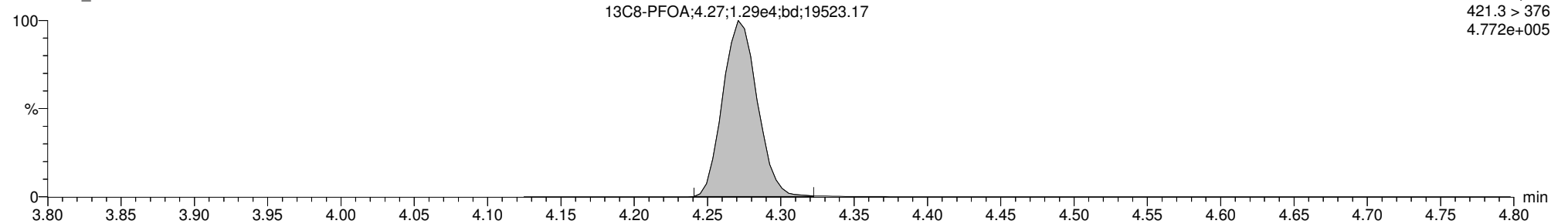
13C2-PFOA

170301G1_18



13C8-PFOA

170301G1_18



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-18.qld

Last Altered: Thursday, March 02, 2017 10:41:27 Pacific Standard Time

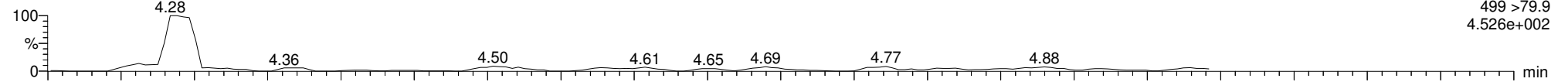
Printed: Thursday, March 02, 2017 10:41:42 Pacific Standard Time

ID: 1700261-01 WI-CV-GW10D-0217 0.125, Description: WI-CV-GW10D-0217, Name: 170301G1_18, Date: 01-Mar-2017, Time: 18:30:28, Instrument: , Lab: , User:

Total PFOS

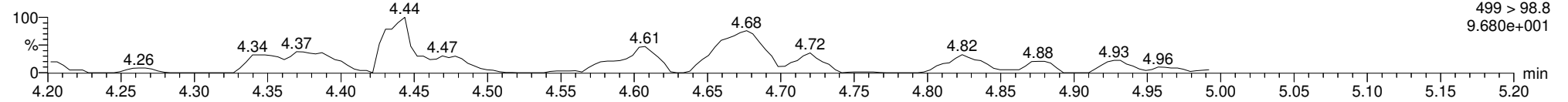
170301G1_18

F5:MRM of 12 channels,ES-
499 >79.9
4.526e+002



170301G1_18

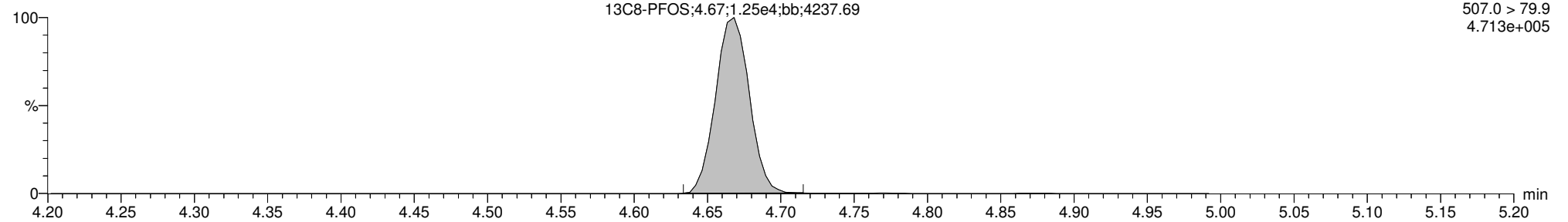
F5:MRM of 12 channels,ES-
499 > 98.8
9.680e+001



13C8-PFOS

170301G1_18

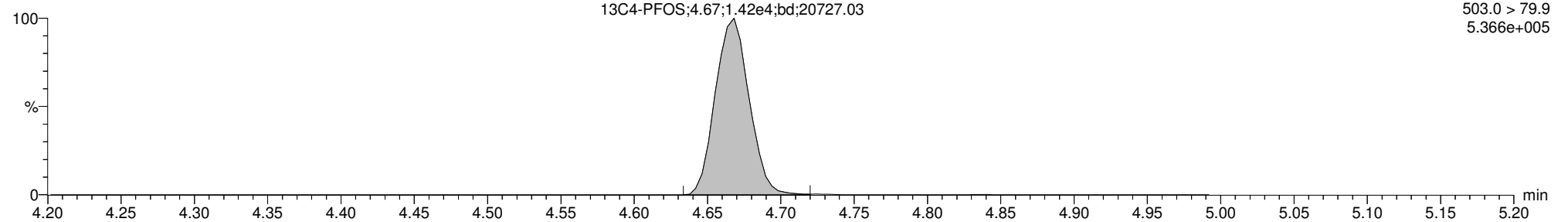
F5:MRM of 12 channels,ES-
507.0 > 79.9
4.713e+005



13C4-PFOS

170301G1_18

F5:MRM of 12 channels,ES-
503.0 > 79.9
5.366e+005



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-19.qld

Last Altered: Thursday, March 02, 2017 10:24:29 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:25:13 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-02 WI-CV-EB01-022017 0.125, Description: WI-CV-EB01-022017, Name: 170301G1_19, Date: 01-Mar-2017, Time: 18:43:01

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.659e3		0.118			
2	4 PFOA	413 > 368.7	1.542e2	2.543e4		0.118	4.27		
3	6 PFOS	499 >79.9		8.403e3		0.118			
4	7 13C3-PFBS	302.0 > 98.8	6.659e3	1.403e4	0.442	0.118	2.98	114	107
5	10 13C2-PFOA	414.9 > 369.7	2.543e4	9.587e3	2.782	0.118	4.28	101	95.4
6	12 13C8-PFOS	507.0 > 79.9	8.403e3	8.323e3	0.941	0.118	4.67	113	107
7	14 13C3-PFHxS	401.9 > 79.9	1.403e4	1.403e4	1.000	0.118	3.99	106	100
8	15 13C8-PFOA	421.3 > 376	9.587e3	9.587e3	1.000	0.118	4.28	106	100
9	17 13C4-PFOS	503.0 > 79.9	8.323e3	8.323e3	1.000	0.118	4.67	106	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-19.qld

Last Altered: Thursday, March 02, 2017 10:24:29 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:25:35 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-02 WI-CV-EB01-022017 0.125, Description: WI-CV-EB01-022017, Name: 170301G1_19, Date: 01-Mar-2017, Time: 18:43:01

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.593e3		0.118			
2	20 Total PFOA	413 > 368.7		2.543e4		0.118			
3	21 Total PFOS	499 > 79.9		8.403e3		0.118			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-19.qld

Last Altered: Thursday, March 02, 2017 10:24:29 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:25:13 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-02 WI-CV-EB01-022017 0.125, Description: WI-CV-EB01-022017, Name: 170301G1_19, Date: 01-Mar-2017, Time: 18:43:01

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	3.99	19.217	5592.597	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.27	154.183	25432.275	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-19.qld

Last Altered: Thursday, March 02, 2017 10:24:29 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:25:13 Pacific Standard Time

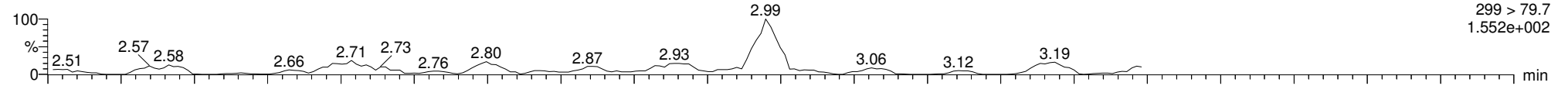
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-02 WI-CV-EB01-022017 0.125, Description: WI-CV-EB01-022017, Name: 170301G1_19, Date: 01-Mar-2017, Time: 18:43:01, Instrument: , Lab: , User:

PFBS

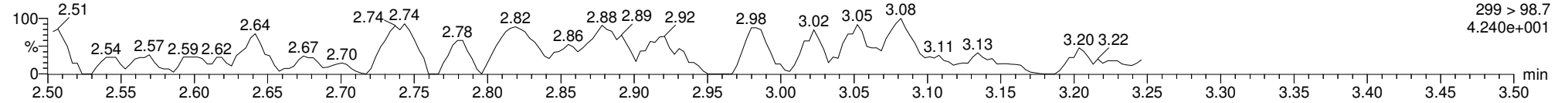
170301G1_19

F2:MRM of 3 channels,ES-
299 > 79.7
1.552e+002



170301G1_19

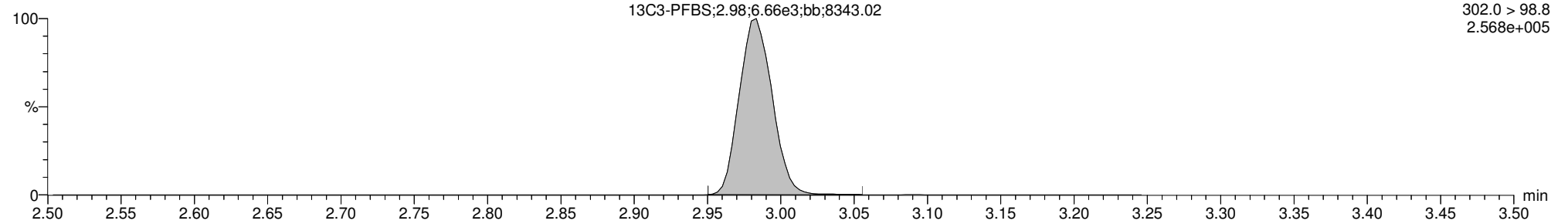
F2:MRM of 3 channels,ES-
299 > 98.7
4.240e+001



13C3-PFBS

170301G1_19

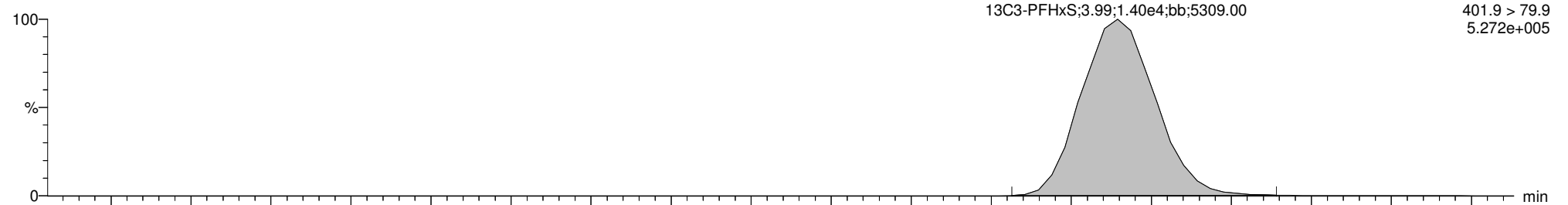
F2:MRM of 3 channels,ES-
302.0 > 98.8
2.568e+005



13C3-PFHxS

170301G1_19

F4:MRM of 7 channels,ES-
401.9 > 79.9
5.272e+005



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-19.qld

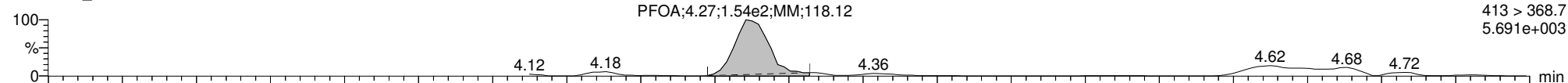
Last Altered: Thursday, March 02, 2017 10:24:29 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:25:13 Pacific Standard Time

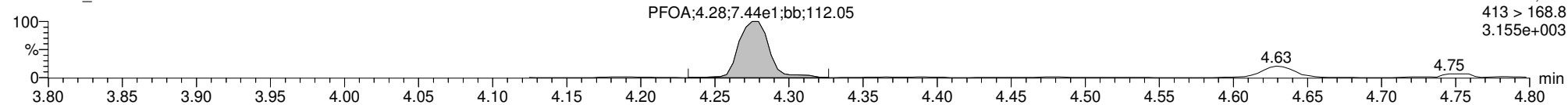
ID: 1700261-02 WI-CV-EB01-022017 0.125, Description: WI-CV-EB01-022017, Name: 170301G1_19, Date: 01-Mar-2017, Time: 18:43:01, Instrument: , Lab: , User:

Total PFOA

170301G1_19

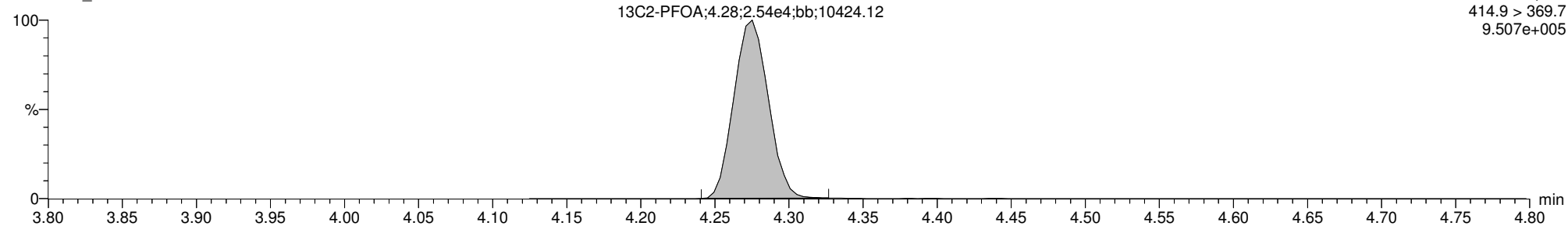


170301G1_19



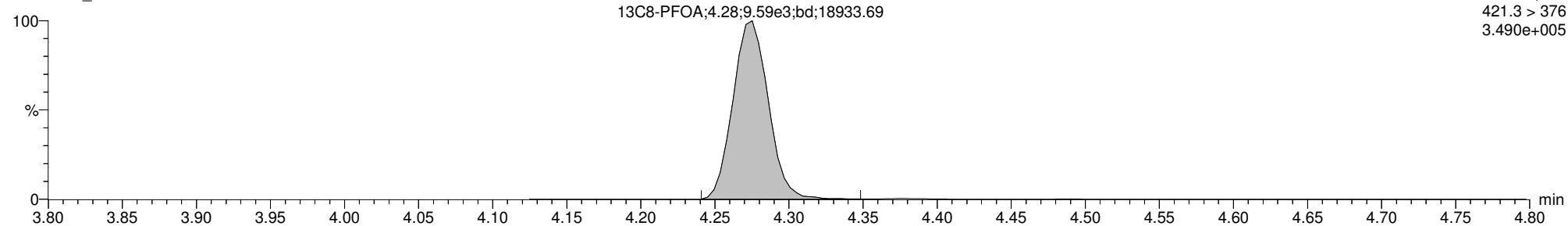
13C2-PFOA

170301G1_19



13C8-PFOA

170301G1_19



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-19.qld

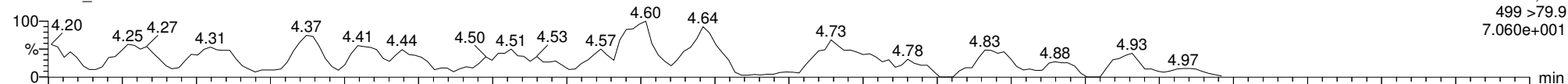
Last Altered: Thursday, March 02, 2017 10:24:29 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:25:13 Pacific Standard Time

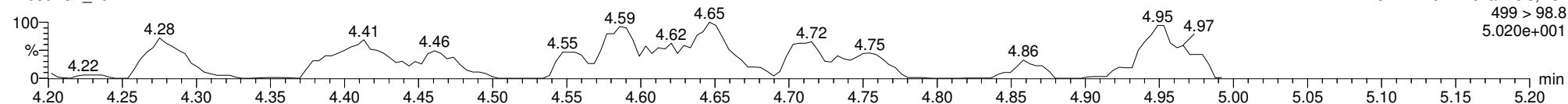
ID: 1700261-02 WI-CV-EB01-022017 0.125, Description: WI-CV-EB01-022017, Name: 170301G1_19, Date: 01-Mar-2017, Time: 18:43:01, Instrument: , Lab: , User:

Total PFOS

170301G1_19

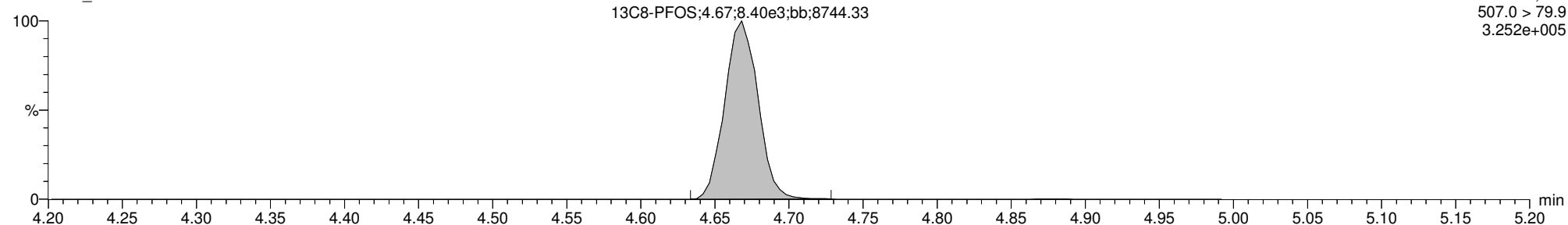


170301G1_19



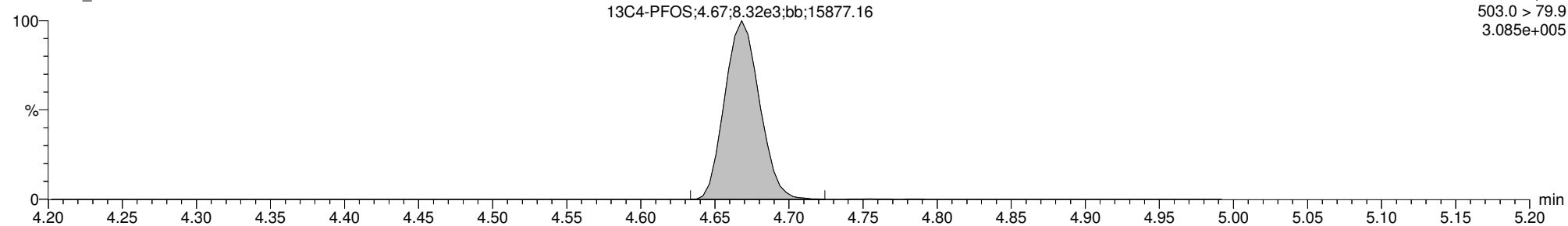
13C8-PFOS

170301G1_19



13C4-PFOS

170301G1_19



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-20.qld

Last Altered: Thursday, March 02, 2017 10:34:36 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:35:11 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-03 WI-CV-GW065-0217 0.125, Description: WI-CV-GW065-0217, Name: 170301G1_20, Date: 01-Mar-2017, Time: 18:55:35

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.420e3		0.126			
2	4 PFOA	413 > 368.7	1.560e2	2.212e4		0.126	4.28		
3	6 PFOS	499 >79.9		6.823e3		0.126			
4	7 13C3-PFBS	302.0 > 98.8	6.420e3	1.270e4	0.442	0.126	2.98	113	114
5	10 13C2-PFOA	414.9 > 369.7	2.212e4	7.796e3	2.782	0.126	4.28	101	102
6	12 13C8-PFOS	507.0 > 79.9	6.823e3	7.324e3	0.941	0.126	4.67	98.1	99.0
7	14 13C3-PFHxS	401.9 > 79.9	1.270e4	1.270e4	1.000	0.126	3.99	99.1	100
8	15 13C8-PFOA	421.3 > 376	7.796e3	7.796e3	1.000	0.126	4.28	99.1	100
9	17 13C4-PFOS	503.0 > 79.9	7.324e3	7.324e3	1.000	0.126	4.67	99.1	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-20.qld

Last Altered: Thursday, March 02, 2017 10:34:36 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:35:44 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-03 WI-CV-GW065-0217 0.125, Description: WI-CV-GW065-0217, Name: 170301G1_20, Date: 01-Mar-2017, Time: 18:55:35

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.343e3		0.126			
2	20 Total PFOA	413 > 368.7		2.212e4		0.126			
3	21 Total PFOS	499 > 79.9		6.823e3		0.126			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-20.qld

Last Altered: Thursday, March 02, 2017 10:34:36 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:35:11 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-03 WI-CV-GW065-0217 0.125, Description: WI-CV-GW065-0217, Name: 170301G1_20, Date: 01-Mar-2017, Time: 18:55:35

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	3.99	34.211	5343.457	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	155.991	22116.092	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-20.qld

Last Altered: Thursday, March 02, 2017 10:34:36 Pacific Standard Time

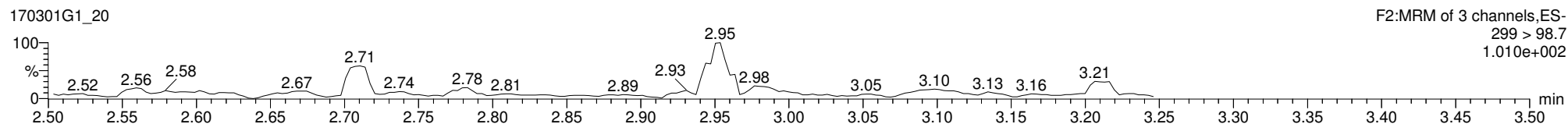
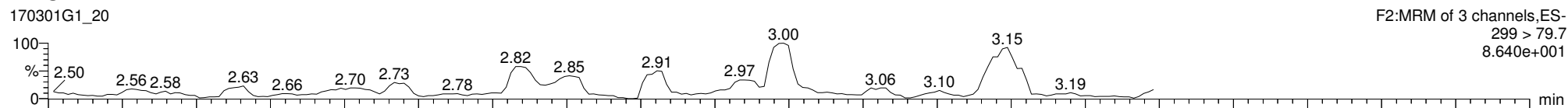
Printed: Thursday, March 02, 2017 10:35:11 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

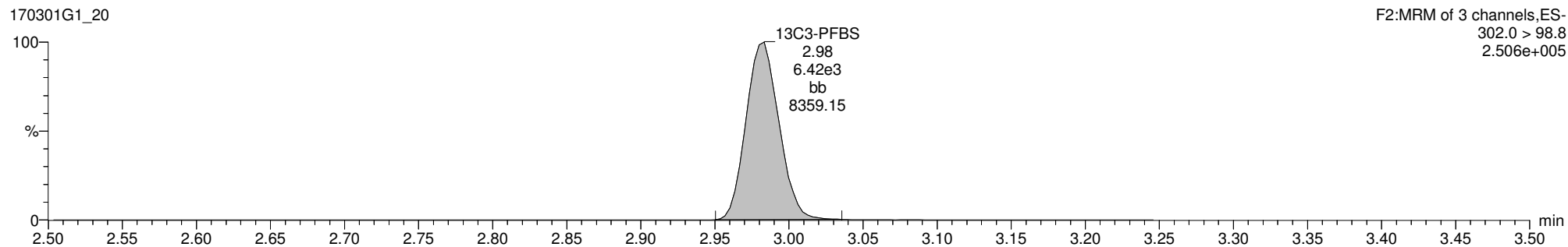
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-03 WI-CV-GW065-0217 0.125, Description: WI-CV-GW065-0217, Name: 170301G1_20, Date: 01-Mar-2017, Time: 18:55:35, Instrument: , Lab: , User:

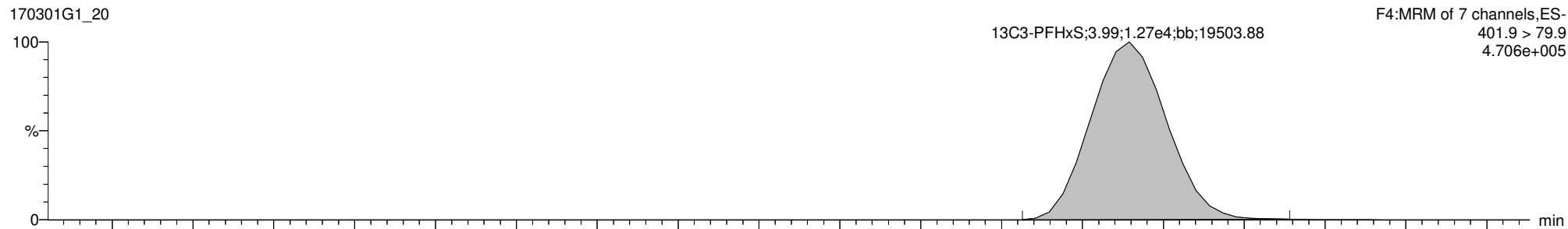
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-20.qld

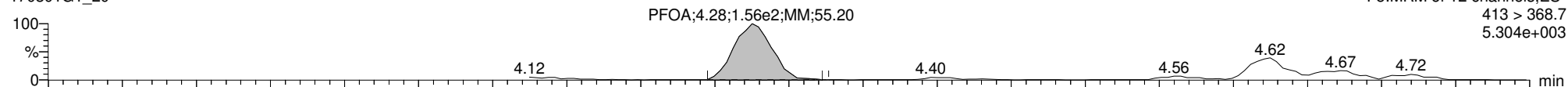
Last Altered: Thursday, March 02, 2017 10:34:36 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:35:11 Pacific Standard Time

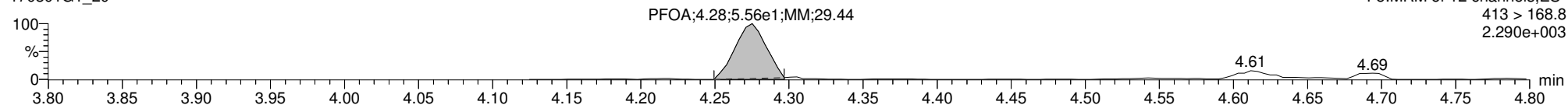
ID: 1700261-03 WI-CV-GW065-0217 0.125, Description: WI-CV-GW065-0217, Name: 170301G1_20, Date: 01-Mar-2017, Time: 18:55:35, Instrument: , Lab: , User:

Total PFOA

170301G1_20

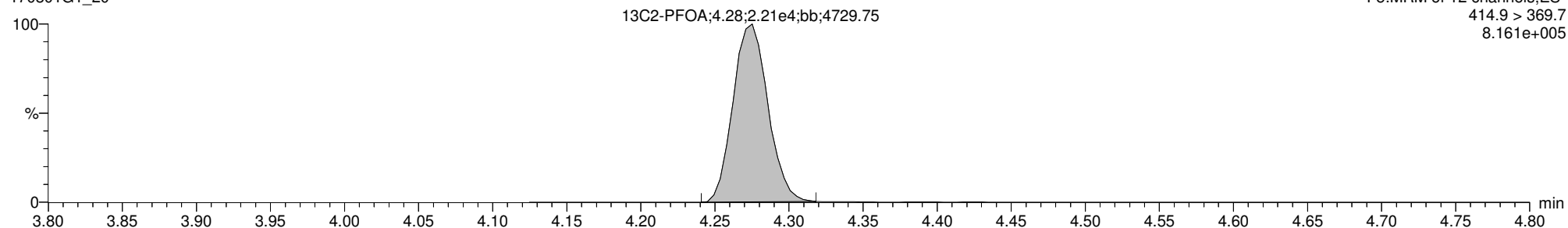


170301G1_20



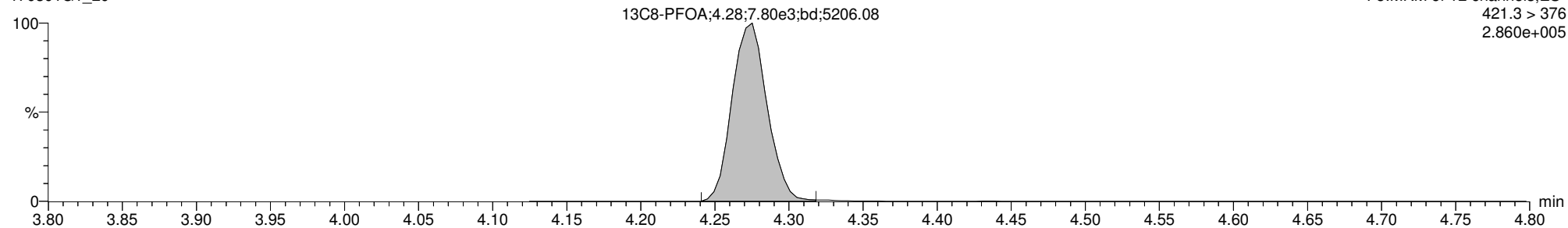
13C2-PFOA

170301G1_20



13C8-PFOA

170301G1_20



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-20.qld

Last Altered: Thursday, March 02, 2017 10:34:36 Pacific Standard Time

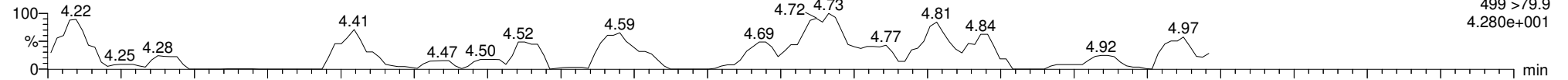
Printed: Thursday, March 02, 2017 10:35:11 Pacific Standard Time

ID: 1700261-03 WI-CV-GW065-0217 0.125, Description: WI-CV-GW065-0217, Name: 170301G1_20, Date: 01-Mar-2017, Time: 18:55:35, Instrument: , Lab: , User:

Total PFOS

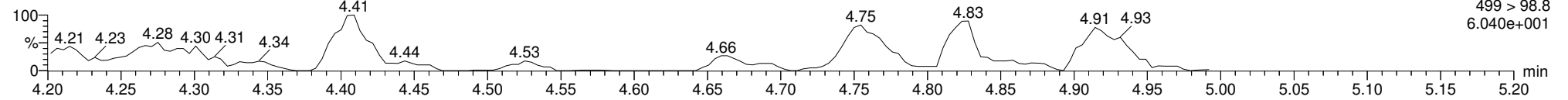
170301G1_20

F5:MRM of 12 channels,ES-
499 >79.9
4.280e+001



170301G1_20

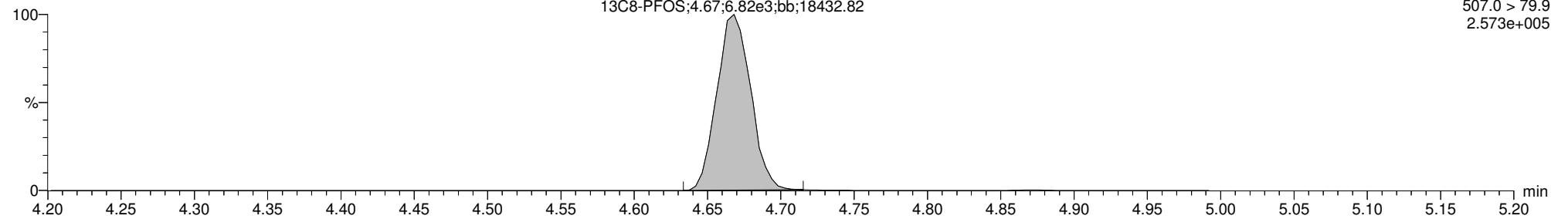
F5:MRM of 12 channels,ES-
499 > 98.8
6.040e+001



13C8-PFOS

170301G1_20

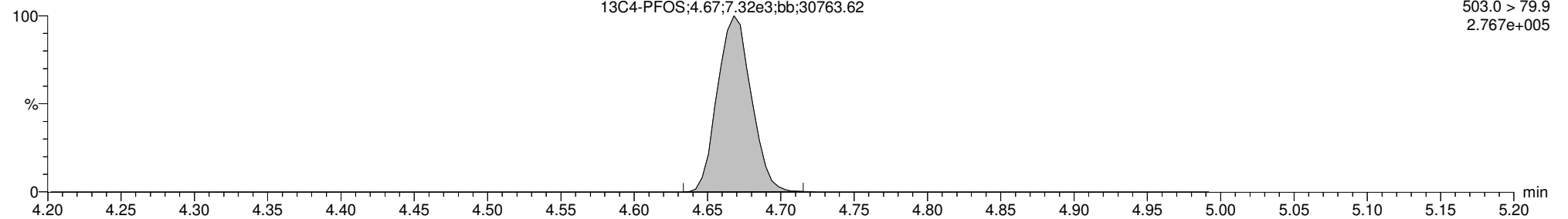
F5:MRM of 12 channels,ES-
507.0 > 79.9
2.573e+005



13C4-PFOS

170301G1_20

F5:MRM of 12 channels,ES-
503.0 > 79.9
2.767e+005



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-21.qld

Last Altered: Thursday, March 02, 2017 10:43:11 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:43:46 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-04 WI-CV-GW065/5P-0217 0.125, Description: WI-CV-GW065/5P-0217, Name: 170301G1_21, Date: 01-Mar-2017, Time: 19:08:08

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.736e3		0.127			
2	4 PFOA	413 > 368.7	1.278e2	2.872e4		0.127	4.28		
3	6 PFOS	499 >79.9		7.940e3		0.127			
4	7 13C3-PFBS	302.0 > 98.8	6.736e3	1.496e4	0.442	0.127	2.98	101	102
5	10 13C2-PFOA	414.9 > 369.7	2.872e4	9.746e3	2.782	0.127	4.28	105	106
6	12 13C8-PFOS	507.0 > 79.9	7.940e3	8.114e3	0.941	0.127	4.67	103	104
7	14 13C3-PFHxS	401.9 > 79.9	1.496e4	1.496e4	1.000	0.127	3.99	98.8	100
8	15 13C8-PFOA	421.3 > 376	9.746e3	9.746e3	1.000	0.127	4.28	98.8	100
9	17 13C4-PFOS	503.0 > 79.9	8.114e3	8.114e3	1.000	0.127	4.67	98.8	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-21.qld

Last Altered: Thursday, March 02, 2017 10:43:11 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:44:00 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-04 WI-CV-GW065/5P-0217 0.125, Description: WI-CV-GW065/5P-0217, Name: 170301G1_21, Date: 01-Mar-2017, Time: 19:08:08

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.672e3		0.127			
2	20 Total PFOA	413 > 368.7		2.872e4		0.127			
3	21 Total PFOS	499 > 79.9		7.940e3		0.127			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-21.qld

Last Altered: Thursday, March 02, 2017 10:43:11 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:43:46 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-04 WI-CV-GW065/5P-0217 0.125, Description: WI-CV-GW065/5P-0217, Name: 170301G1_21, Date: 01-Mar-2017, Time: 19:08:08

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	3.99	22.489	5671.622	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	127.786	28718.217	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-21.qld

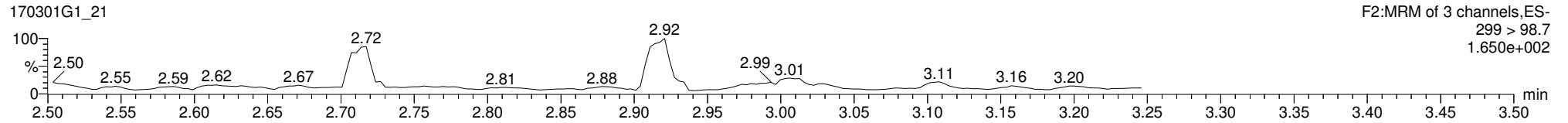
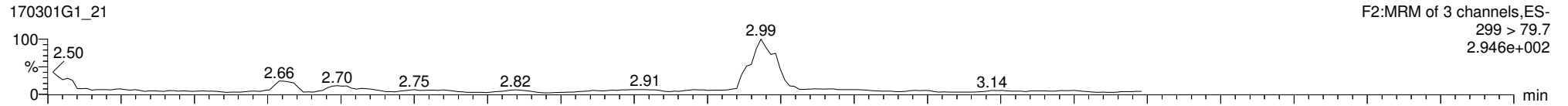
Last Altered: Thursday, March 02, 2017 10:43:11 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:43:46 Pacific Standard Time

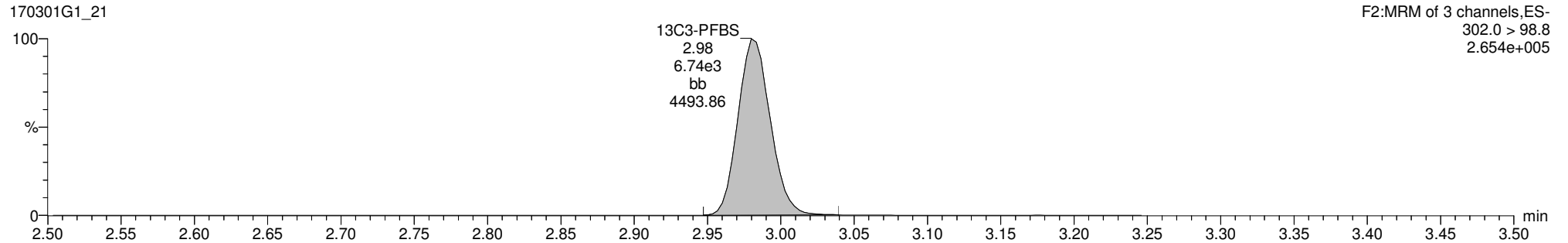
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-04 WI-CV-GW065/5P-0217 0.125, Description: WI-CV-GW065/5P-0217, Name: 170301G1_21, Date: 01-Mar-2017, Time: 19:08:08, Instrument: , Lab: , User:

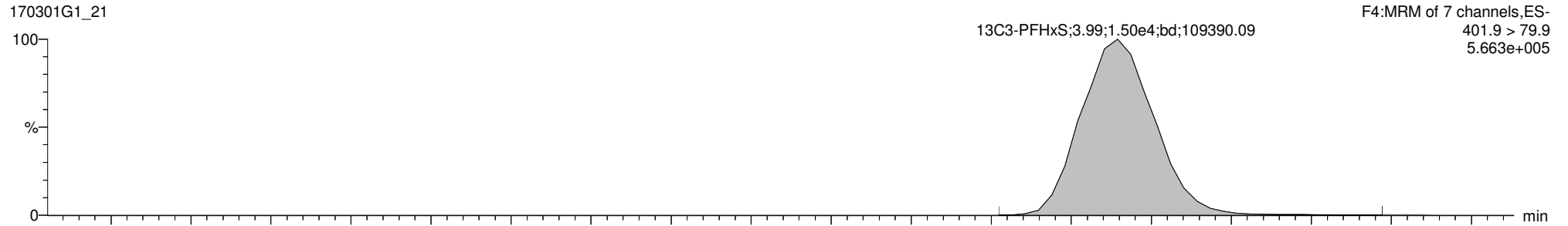
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-21.qld

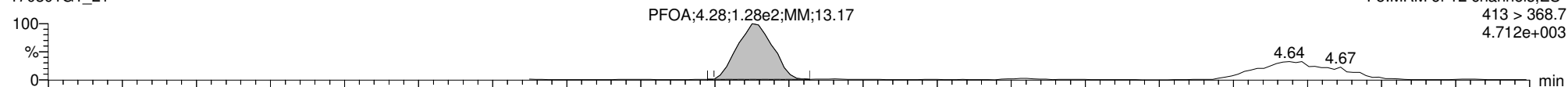
Last Altered: Thursday, March 02, 2017 10:43:11 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:43:46 Pacific Standard Time

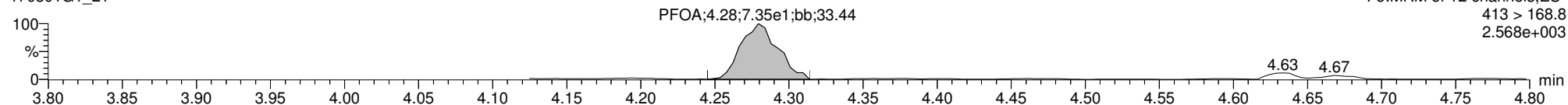
ID: 1700261-04 WI-CV-GW065/5P-0217 0.125, Description: WI-CV-GW065/5P-0217, Name: 170301G1_21, Date: 01-Mar-2017, Time: 19:08:08, Instrument: , Lab: , User:

Total PFOA

170301G1_21

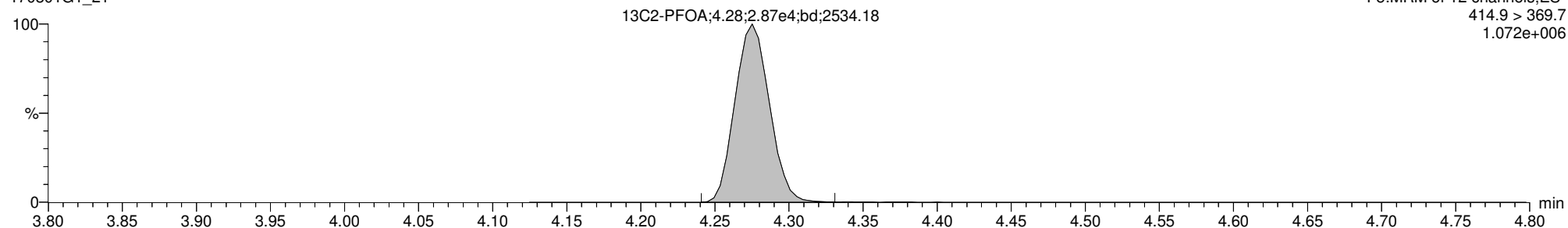


170301G1_21



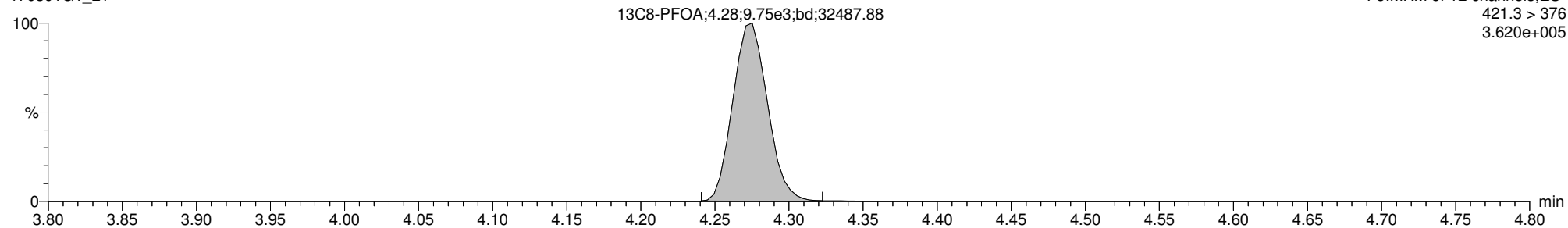
13C2-PFOA

170301G1_21



13C8-PFOA

170301G1_21



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-21.qld

Last Altered: Thursday, March 02, 2017 10:43:11 Pacific Standard Time

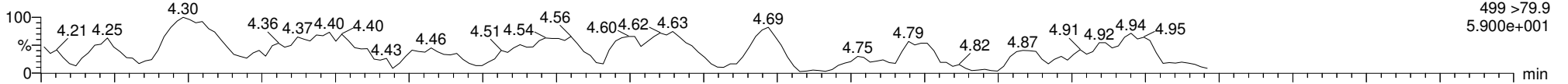
Printed: Thursday, March 02, 2017 10:43:46 Pacific Standard Time

ID: 1700261-04 WI-CV-GW065/5P-0217 0.125, Description: WI-CV-GW065/5P-0217, Name: 170301G1_21, Date: 01-Mar-2017, Time: 19:08:08, Instrument: , Lab: , User:

Total PFOS

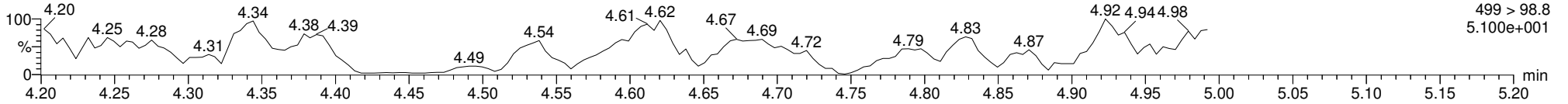
170301G1_21

F5:MRM of 12 channels,ES-
499 >79.9
5.900e+001



170301G1_21

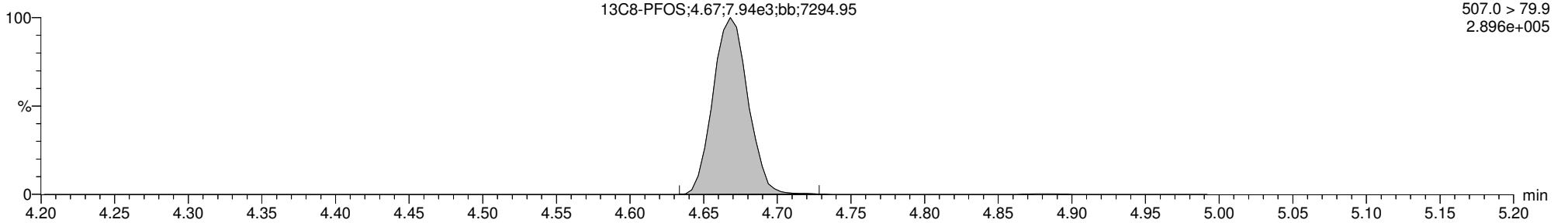
F5:MRM of 12 channels,ES-
499 > 98.8
5.100e+001



13C8-PFOS

170301G1_21

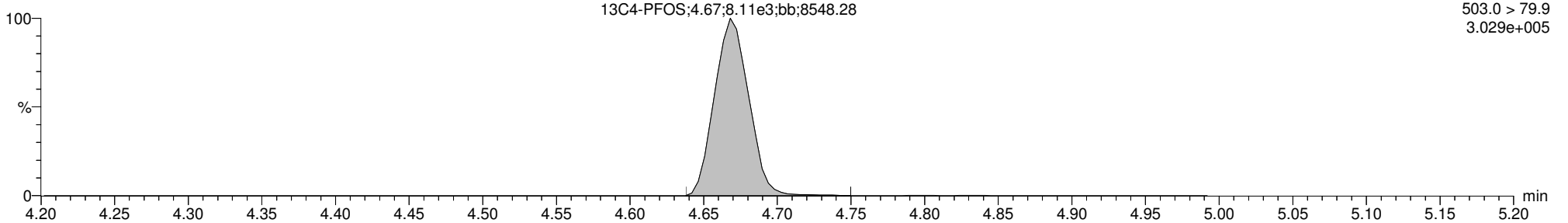
F5:MRM of 12 channels,ES-
507.0 > 79.9
2.896e+005



13C4-PFOS

170301G1_21

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.029e+005



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-22.qld

Last Altered: Thursday, March 02, 2017 10:45:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:47:18 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-05 WI-CV-GW105-0217 0.125, Description: WI-CV-GW105-0217, Name: 170301G1_22, Date: 01-Mar-2017, Time: 19:20:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	3.990e2	6.517e3		0.120	2.99	3.00	
2	4 PFOA	413 > 368.7	1.390e2	2.363e4		0.120	4.28		
3	6 PFOS	499 >79.9		7.403e3		0.120			
4	7 13C3-PFBS	302.0 > 98.8	6.517e3	1.536e4	0.442	0.120	2.98	100	95.9
5	10 13C2-PFOA	414.9 > 369.7	2.363e4	9.411e3	2.782	0.120	4.28	94.1	90.3
6	12 13C8-PFOS	507.0 > 79.9	7.403e3	7.848e3	0.941	0.120	4.67	105	100
7	14 13C3-PFHxS	401.9 > 79.9	1.536e4	1.536e4	1.000	0.120	3.99	104	100
8	15 13C8-PFOA	421.3 > 376	9.411e3	9.411e3	1.000	0.120	4.28	104	100
9	17 13C4-PFOS	503.0 > 79.9	7.848e3	7.848e3	1.000	0.120	4.67	104	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-22.qld

Last Altered: Thursday, March 02, 2017 10:45:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:47:37 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-05 WI-CV-GW105-0217 0.125, Description: WI-CV-GW105-0217, Name: 170301G1_22, Date: 01-Mar-2017, Time: 19:20:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		6.407e3		0.120		3.07	
2	20 Total PFOA	413 > 368.7		2.363e4		0.120			
3	21 Total PFOS	499 > 79.9		7.403e3		0.120			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-22.qld

Last Altered: Thursday, March 02, 2017 10:45:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:47:18 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-05 WI-CV-GW105-0217 0.125, Description: WI-CV-GW105-0217, Name: 170301G1_22, Date: 01-Mar-2017, Time: 19:20:37

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	18 Total PFBS	299 > 79.7	3.02	5.054	6406.715	0.1
2	1 PFBS	299 > 79.7	2.99	398.993	6516.731	3.0

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	3.99	40.631	6406.715	
2	19 Total PFHxS	398.9 > 79.6	3.89	30.281	6406.715	
3	19 Total PFHxS	398.9 > 79.6	3.86	20.895	6406.715	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	139.015	23626.281	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-22.qld

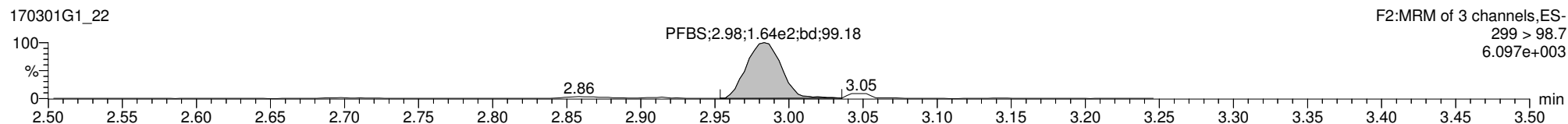
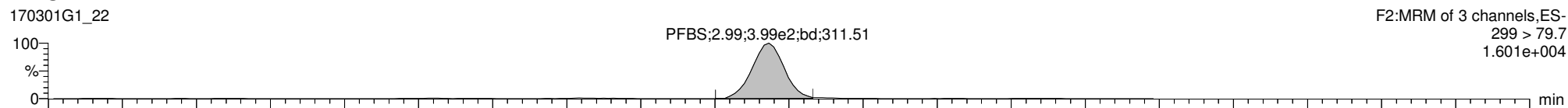
Last Altered: Thursday, March 02, 2017 10:45:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:47:18 Pacific Standard Time

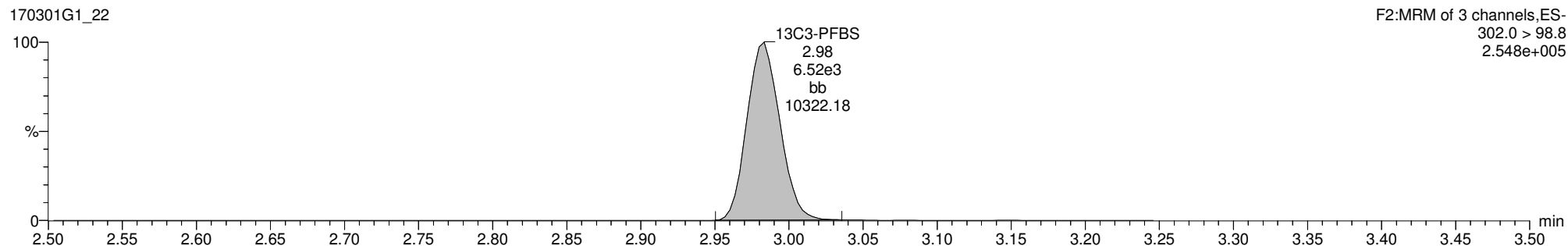
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-05 WI-CV-GW105-0217 0.125, Description: WI-CV-GW105-0217, Name: 170301G1_22, Date: 01-Mar-2017, Time: 19:20:37, Instrument: , Lab: , User:

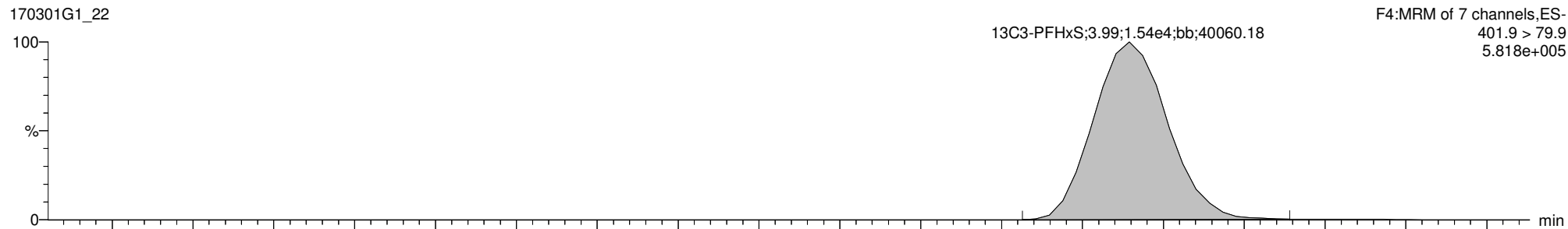
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-22.qld

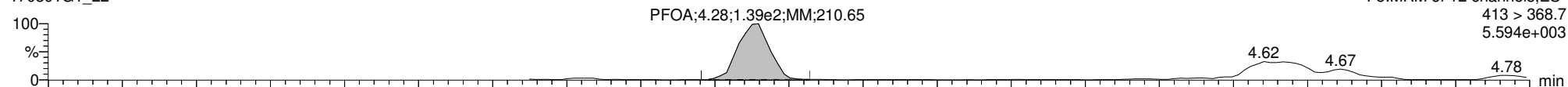
Last Altered: Thursday, March 02, 2017 10:45:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:47:18 Pacific Standard Time

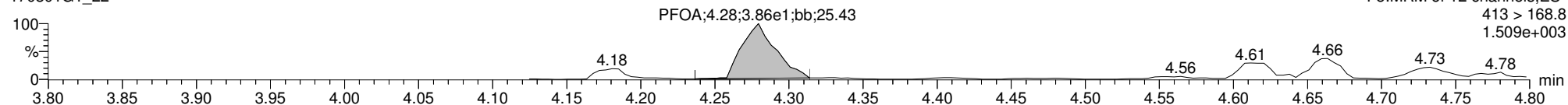
ID: 1700261-05 WI-CV-GW105-0217 0.125, Description: WI-CV-GW105-0217, Name: 170301G1_22, Date: 01-Mar-2017, Time: 19:20:37, Instrument: , Lab: , User:

Total PFOA

170301G1_22

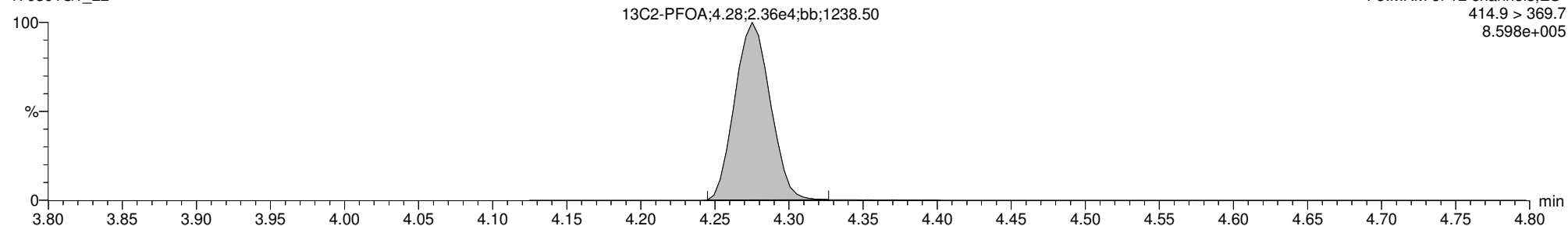


170301G1_22



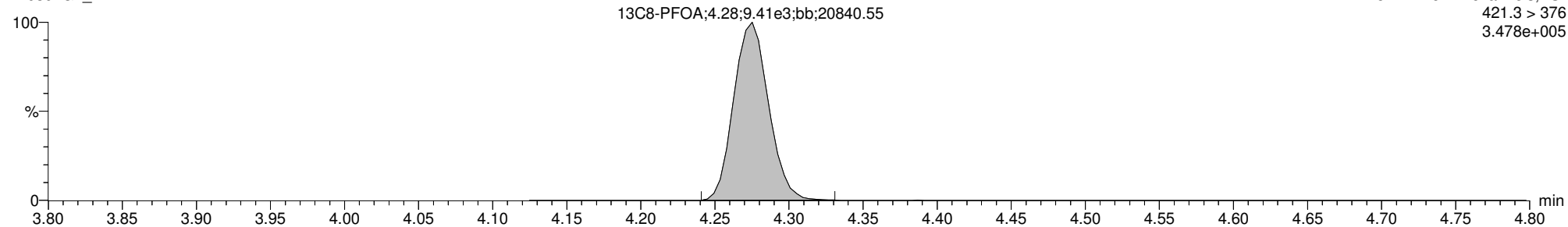
13C2-PFOA

170301G1_22



13C8-PFOA

170301G1_22



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-22.qld

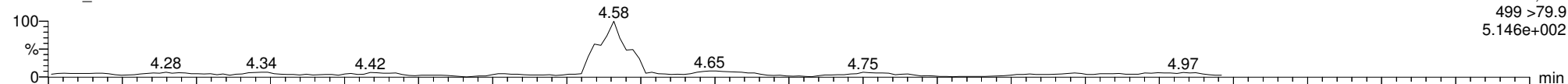
Last Altered: Thursday, March 02, 2017 10:45:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:47:18 Pacific Standard Time

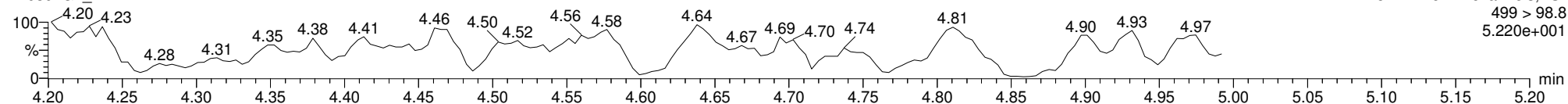
ID: 1700261-05 WI-CV-GW105-0217 0.125, Description: WI-CV-GW105-0217, Name: 170301G1_22, Date: 01-Mar-2017, Time: 19:20:37, Instrument: , Lab: , User:

Total PFOS

170301G1_22

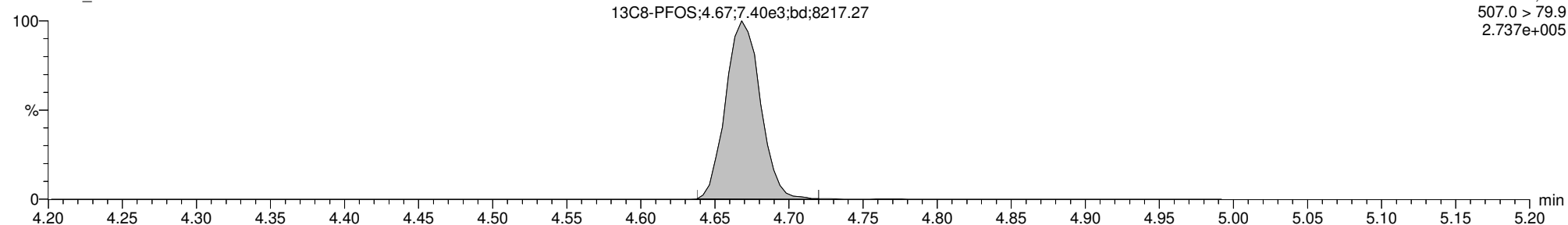


170301G1_22



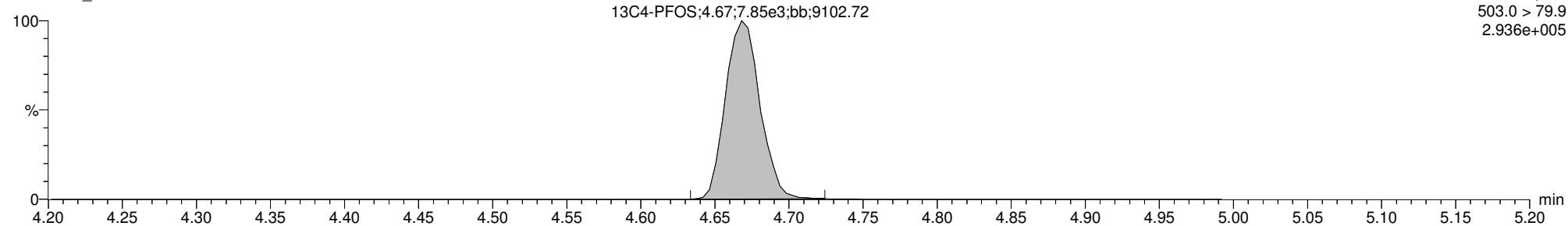
13C8-PFOS

170301G1_22



13C4-PFOS

170301G1_22



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-23.qld

Last Altered: Thursday, March 02, 2017 10:49:40 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:50:29 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-06 WI-CV-EB03-022217 0.125, Description: WI-CV-EB03-022217, Name: 170301G1_23, Date: 01-Mar-2017, Time: 19:33:12

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.586e3		0.119			
2	4 PFOA	413 > 368.7	1.737e2	2.462e4		0.119	4.28		
3	6 PFOS	499 >79.9		6.923e3		0.119			
4	7 13C3-PFBS	302.0 > 98.8	6.586e3	1.350e4	0.442	0.119	2.98	116	110
5	10 13C2-PFOA	414.9 > 369.7	2.462e4	8.465e3	2.782	0.119	4.28	110	105
6	12 13C8-PFOS	507.0 > 79.9	6.923e3	7.556e3	0.941	0.119	4.67	102	97.3
7	14 13C3-PFHxS	401.9 > 79.9	1.350e4	1.350e4	1.000	0.119	3.99	105	100
8	15 13C8-PFOA	421.3 > 376	8.465e3	8.465e3	1.000	0.119	4.28	105	100
9	17 13C4-PFOS	503.0 > 79.9	7.556e3	7.556e3	1.000	0.119	4.67	105	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-23.qld

Last Altered: Thursday, March 02, 2017 10:49:40 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:50:51 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-06 WI-CV-EB03-022217 0.125, Description: WI-CV-EB03-022217, Name: 170301G1_23, Date: 01-Mar-2017, Time: 19:33:12

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.744e3		0.119			
2	20 Total PFOA	413 > 368.7		2.462e4		0.119			
3	21 Total PFOS	499 > 79.9		6.923e3		0.119			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-23.qld

Last Altered: Thursday, March 02, 2017 10:49:40 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:50:29 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-06 WI-CV-EB03-022217 0.125, Description: WI-CV-EB03-022217, Name: 170301G1_23, Date: 01-Mar-2017, Time: 19:33:12

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	3.99	35.503	5743.795	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	173.667	24622.893	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-23.qld

Last Altered: Thursday, March 02, 2017 10:49:40 Pacific Standard Time

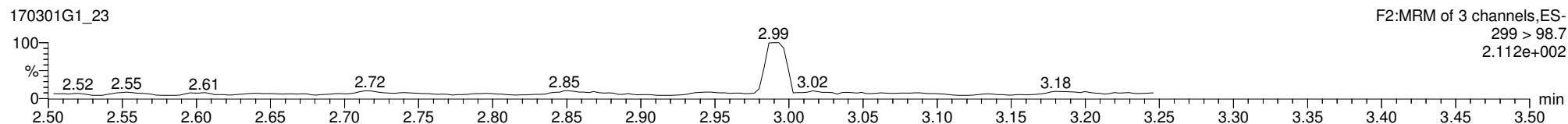
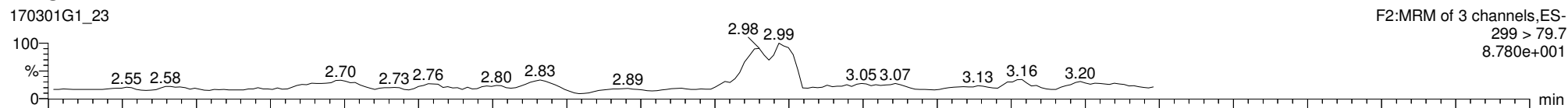
Printed: Thursday, March 02, 2017 10:50:29 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

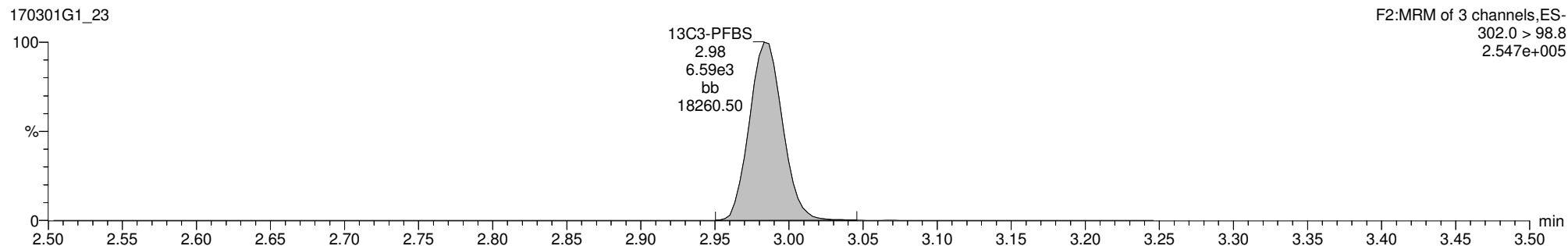
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-06 WI-CV-EB03-022217 0.125, Description: WI-CV-EB03-022217, Name: 170301G1_23, Date: 01-Mar-2017, Time: 19:33:12, Instrument: , Lab: , User:

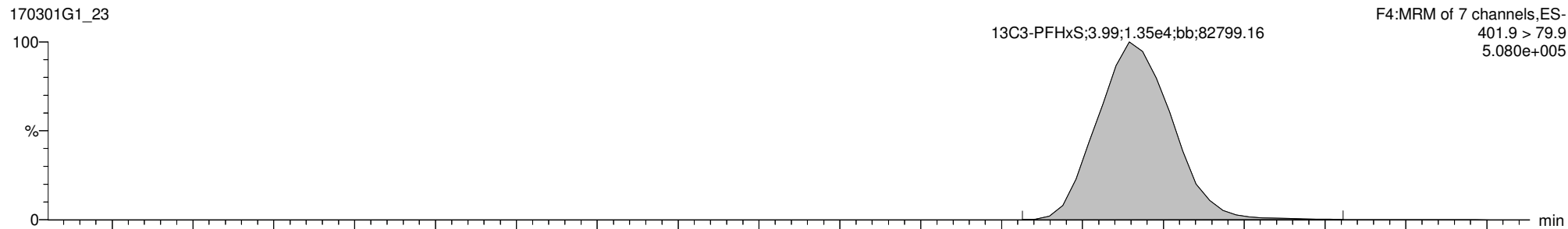
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-23.qld

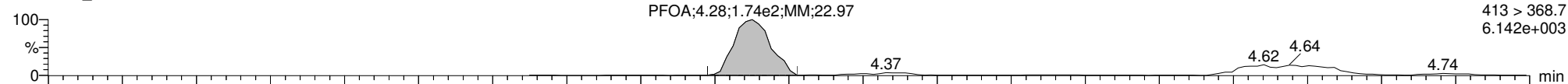
Last Altered: Thursday, March 02, 2017 10:49:40 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:50:29 Pacific Standard Time

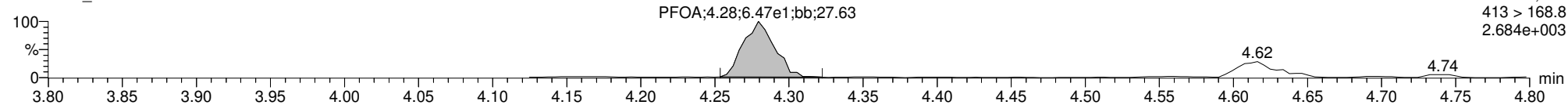
ID: 1700261-06 WI-CV-EB03-022217 0.125, Description: WI-CV-EB03-022217, Name: 170301G1_23, Date: 01-Mar-2017, Time: 19:33:12, Instrument: , Lab: , User:

Total PFOA

170301G1_23

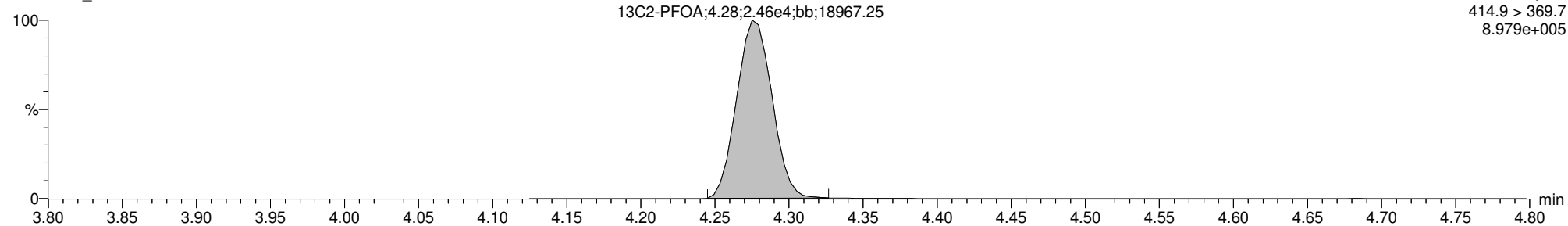


170301G1_23



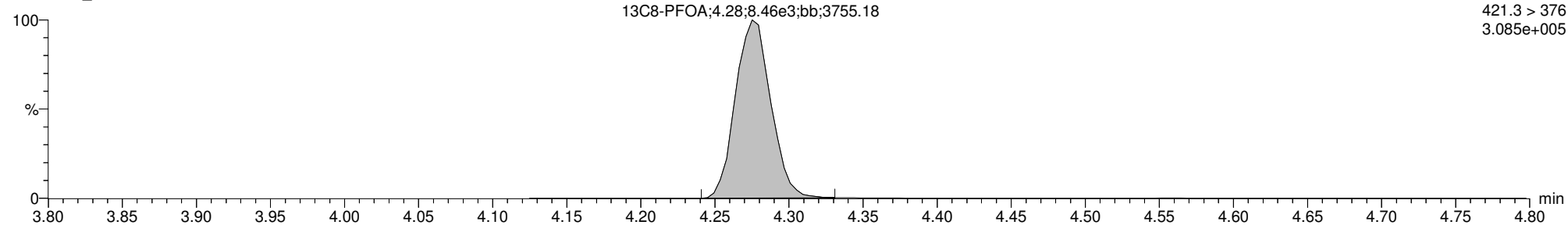
13C2-PFOA

170301G1_23



13C8-PFOA

170301G1_23



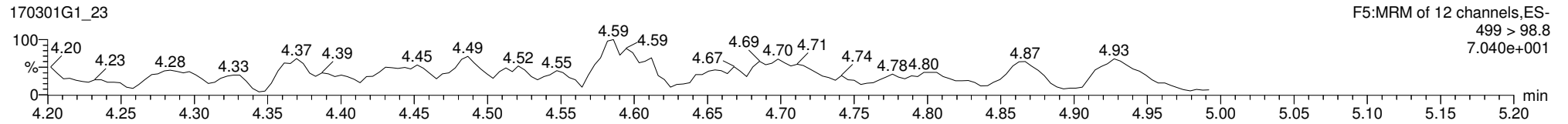
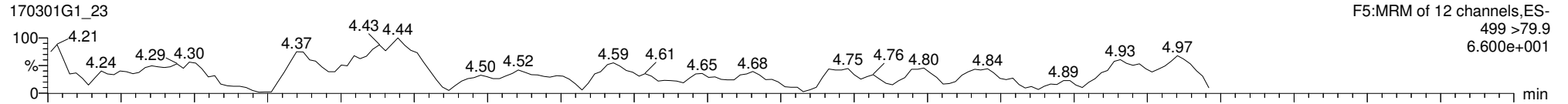
Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-23.qld

Last Altered: Thursday, March 02, 2017 10:49:40 Pacific Standard Time

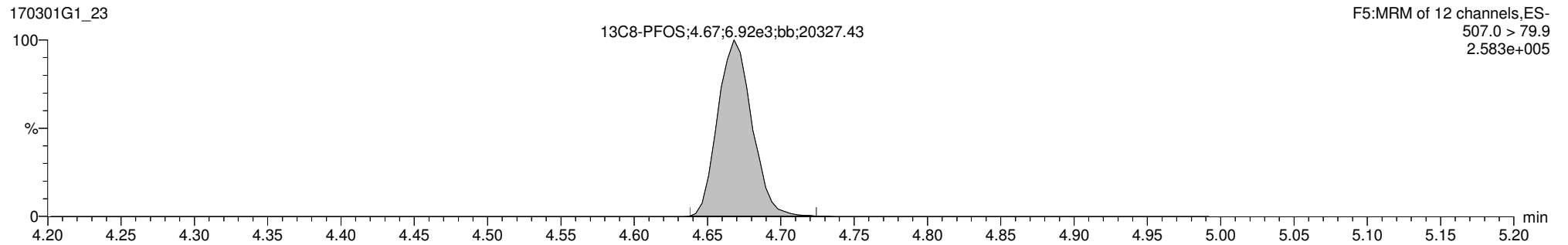
Printed: Thursday, March 02, 2017 10:50:29 Pacific Standard Time

ID: 1700261-06 WI-CV-EB03-022217 0.125, Description: WI-CV-EB03-022217, Name: 170301G1_23, Date: 01-Mar-2017, Time: 19:33:12, Instrument: , Lab: , User:

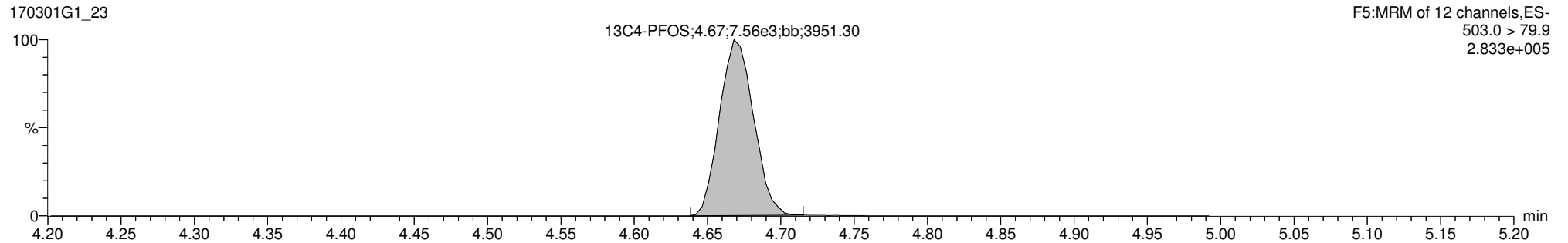
Total PFOS



13C8-PFOS



13C4-PFOS



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-24.qld

Last Altered: Thursday, March 02, 2017 10:51:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:52:30 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-07 WI-CV-GW06M-0217 0.125, Description: WI-CV-GW06M-0217, Name: 170301G1_24, Date: 01-Mar-2017, Time: 19:45:41

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		6.383e3		0.128			
2	4 PFOA	413 > 368.7	2.158e2	2.549e4		0.128	4.28	0.000485	
3	6 PFOS	499 >79.9		7.962e3		0.128			
4	7 13C3-PFBS	302.0 > 98.8	6.383e3	1.345e4	0.442	0.128	2.98	105	107
5	10 13C2-PFOA	414.9 > 369.7	2.549e4	8.684e3	2.782	0.128	4.28	103	105
6	12 13C8-PFOS	507.0 > 79.9	7.962e3	7.670e3	0.941	0.128	4.67	108	110
7	14 13C3-PFHxS	401.9 > 79.9	1.345e4	1.345e4	1.000	0.128	3.99	97.6	100
8	15 13C8-PFOA	421.3 > 376	8.684e3	8.684e3	1.000	0.128	4.28	97.6	100
9	17 13C4-PFOS	503.0 > 79.9	7.670e3	7.670e3	1.000	0.128	4.67	97.6	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-24.qld

Last Altered: Thursday, March 02, 2017 10:51:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:52:55 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-07 WI-CV-GW06M-0217 0.125, Description: WI-CV-GW06M-0217, Name: 170301G1_24, Date: 01-Mar-2017, Time: 19:45:41

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.733e3		0.128			
2	20 Total PFOA	413 > 368.7		2.549e4		0.128		0.000485	
3	21 Total PFOS	499 > 79.9		7.962e3		0.128			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-24.qld

Last Altered: Thursday, March 02, 2017 10:51:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:52:30 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-07 WI-CV-GW06M-0217 0.125, Description: WI-CV-GW06M-0217, Name: 170301G1_24, Date: 01-Mar-2017, Time: 19:45:41

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	3.99	39.677	5733.339	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	215.820	25485.508	0.0

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-24.qld

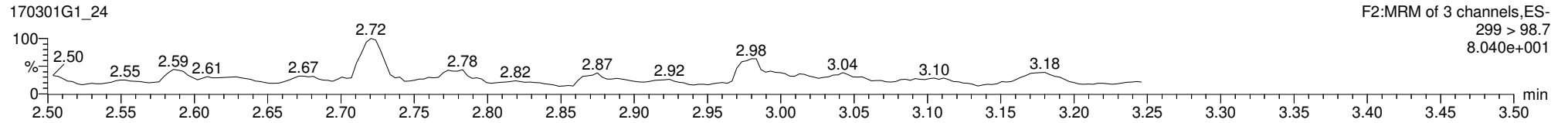
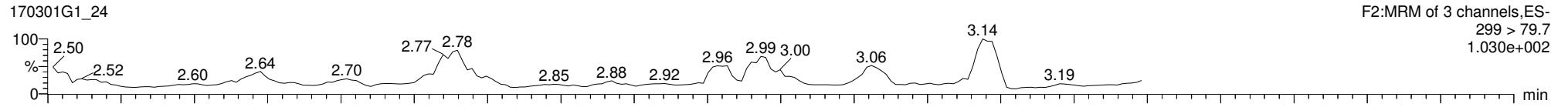
Last Altered: Thursday, March 02, 2017 10:51:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:52:30 Pacific Standard Time

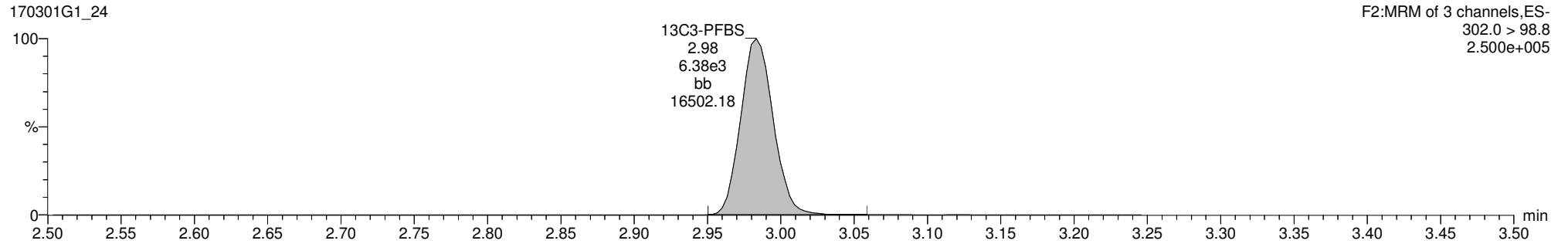
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-07 WI-CV-GW06M-0217 0.125, Description: WI-CV-GW06M-0217, Name: 170301G1_24, Date: 01-Mar-2017, Time: 19:45:41, Instrument: , Lab: , User:

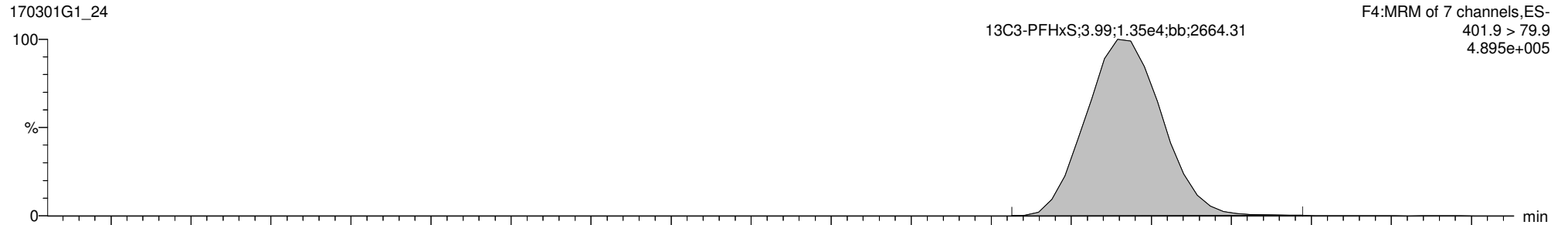
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-24.qld

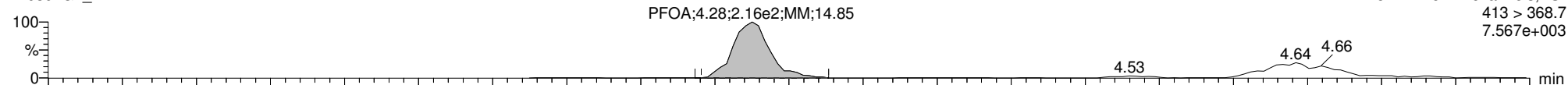
Last Altered: Thursday, March 02, 2017 10:51:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:52:30 Pacific Standard Time

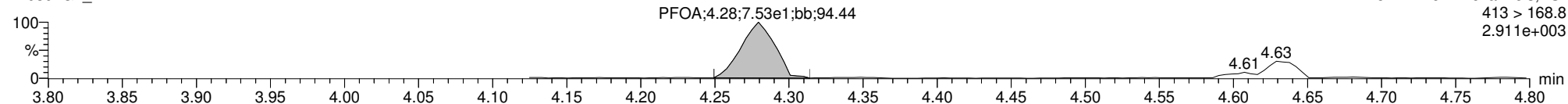
ID: 1700261-07 WI-CV-GW06M-0217 0.125, Description: WI-CV-GW06M-0217, Name: 170301G1_24, Date: 01-Mar-2017, Time: 19:45:41, Instrument: , Lab: , User:

Total PFOA

170301G1_24

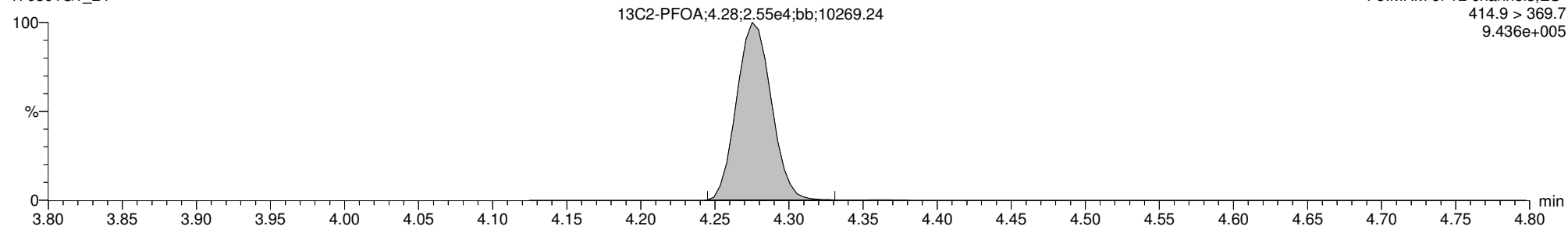


170301G1_24



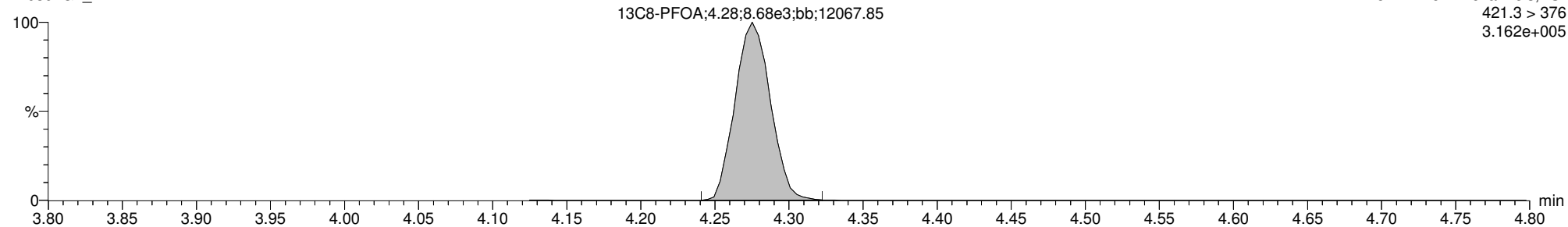
13C2-PFOA

170301G1_24



13C8-PFOA

170301G1_24



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-24.qld

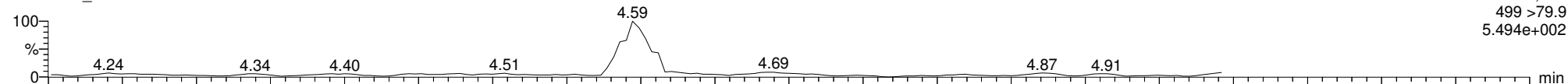
Last Altered: Thursday, March 02, 2017 10:51:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 10:52:30 Pacific Standard Time

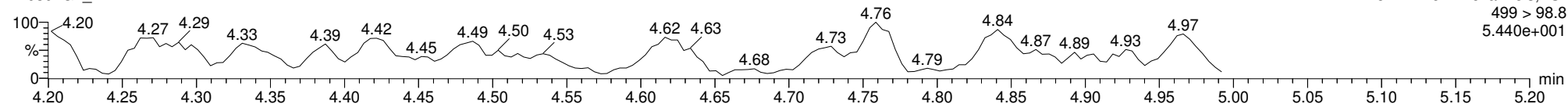
ID: 1700261-07 WI-CV-GW06M-0217 0.125, Description: WI-CV-GW06M-0217, Name: 170301G1_24, Date: 01-Mar-2017, Time: 19:45:41, Instrument: , Lab: , User:

Total PFOS

170301G1_24

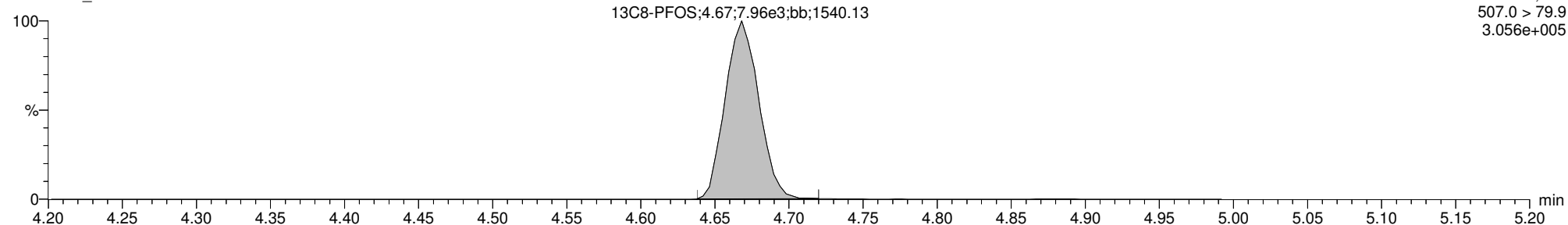


170301G1_24



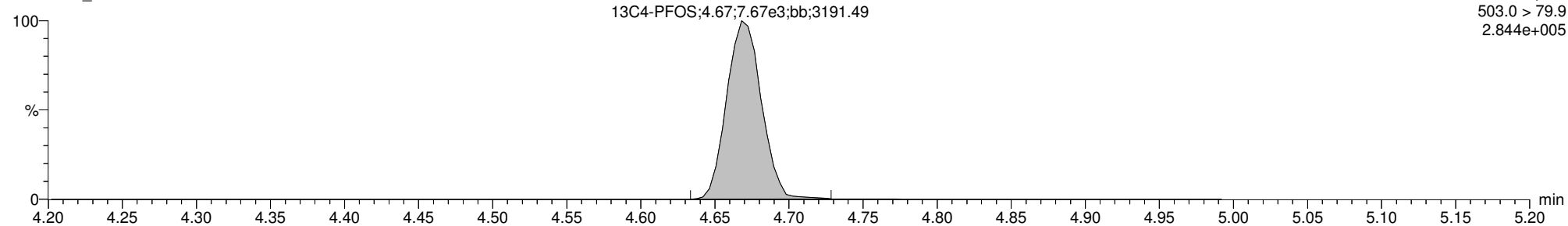
13C8-PFOS

170301G1_24



13C4-PFOS

170301G1_24



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-26.qld

Last Altered: Thursday, March 02, 2017 11:50:32 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:51:02 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_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170301G1_26, Date: 01-Mar-2017, Time: 20:10:56

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.271e4	6.182e3		0.129	2.99	92.5	
2	4 PFOA	413 > 368.7	2.089e4	2.849e4		0.129	4.28	77.1	
3	6 PFOS	499 >79.9	3.097e3	8.506e3		0.129	4.67	67.8	
4	7 13C3-PFBS	302.0 > 98.8	6.182e3	1.472e4	0.442	0.129	2.98	92.1	95.0
5	10 13C2-PFOA	414.9 > 369.7	2.849e4	9.257e3	2.782	0.129	4.28	107	111
6	12 13C8-PFOS	507.0 > 79.9	8.506e3	7.956e3	0.941	0.129	4.67	110	114
7	14 13C3-PFHxS	401.9 > 79.9	1.472e4	1.472e4	1.000	0.129	3.99	96.9	100
8	15 13C8-PFOA	421.3 > 376	9.257e3	9.257e3	1.000	0.129	4.28	96.9	100
9	17 13C4-PFOS	503.0 > 79.9	7.956e3	7.956e3	1.000	0.129	4.67	96.9	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-26.qld

Last Altered: Thursday, March 02, 2017 11:50:32 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:51:21 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_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170301G1_26, Date: 01-Mar-2017, Time: 20:10:56

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.983e3		0.129		92.5	
2	20 Total PFOA	413 > 368.7		2.849e4		0.129		77.1	
3	21 Total PFOS	499 > 79.9		8.506e3		0.129		67.8	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-26.qld

Last Altered: Thursday, March 02, 2017 11:50:32 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:51:02 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_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170301G1_26, Date: 01-Mar-2017, Time: 20:10:56

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	1 PFBS	299 > 79.7	2.99	12710.745	6181.907	92.5

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	3.89	1495.427	5982.794	13.2
2	19 Total PFHxS	398.9 > 79.6	3.87	527.517	5982.794	4.2
3	3 PFHxS	398.9 > 79.6	3.99	7733.690	5982.794	70.9

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	20894.906	28486.309	77.1

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFOS	499 > 79.9	4.67	3097.472	8505.991	67.8

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-26.qld

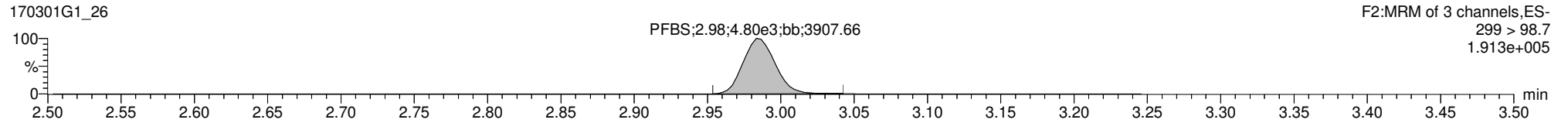
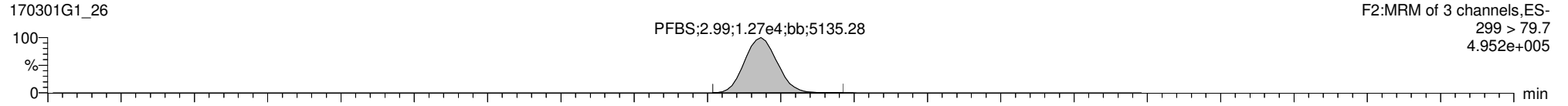
Last Altered: Thursday, March 02, 2017 11:50:32 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:51:02 Pacific Standard Time

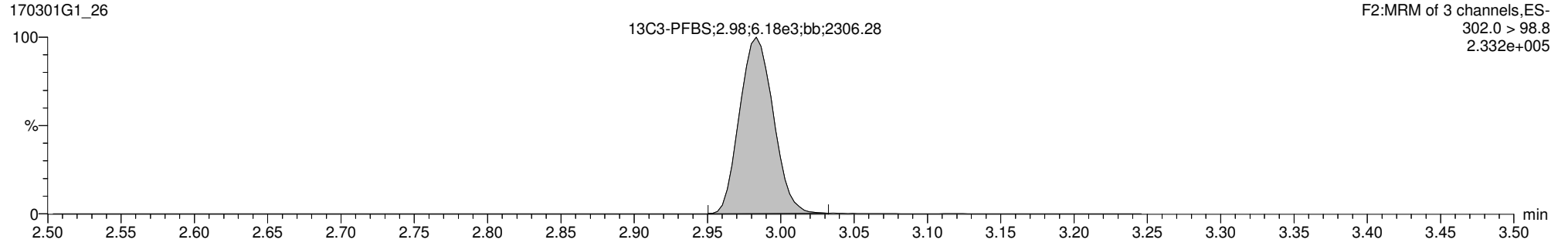
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170301G1_26, Date: 01-Mar-2017, Time: 20:10:56, Instrument: , Lab: , User:

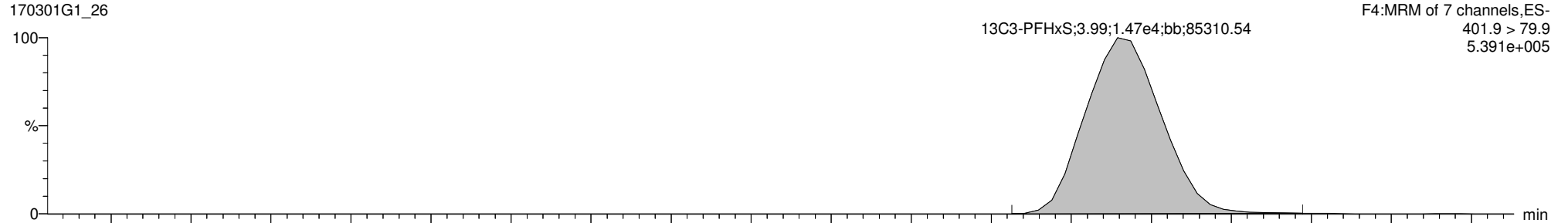
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-26.qld

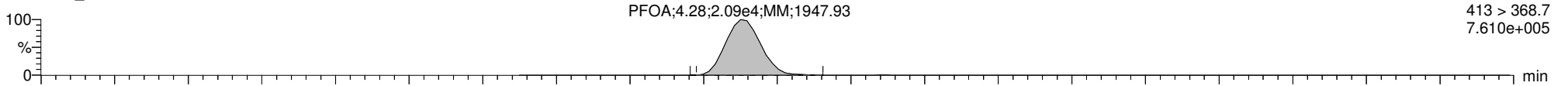
Last Altered: Thursday, March 02, 2017 11:50:32 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:51:02 Pacific Standard Time

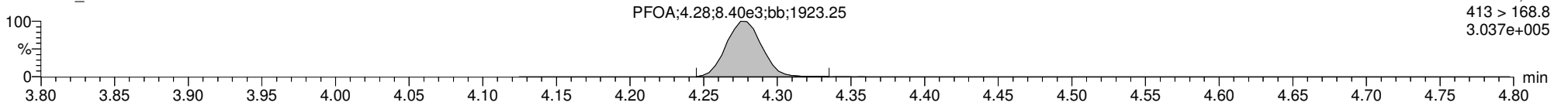
ID: B7B0118-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170301G1_26, Date: 01-Mar-2017, Time: 20:10:56, Instrument: , Lab: , User:

Total PFOA

170301G1_26

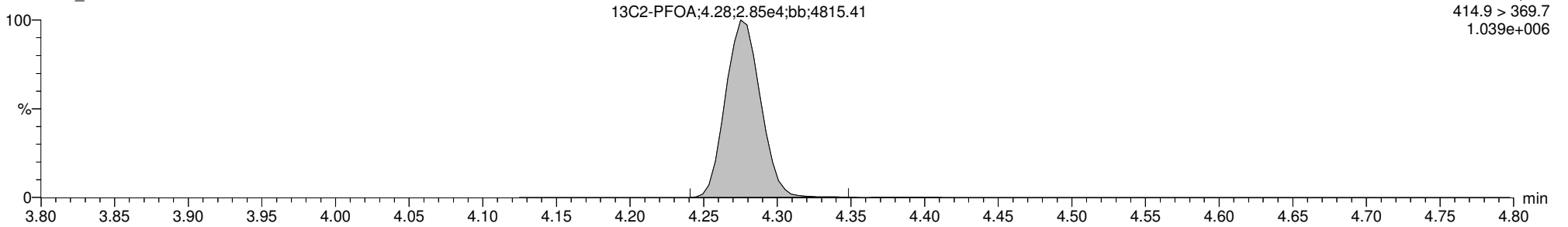


170301G1_26



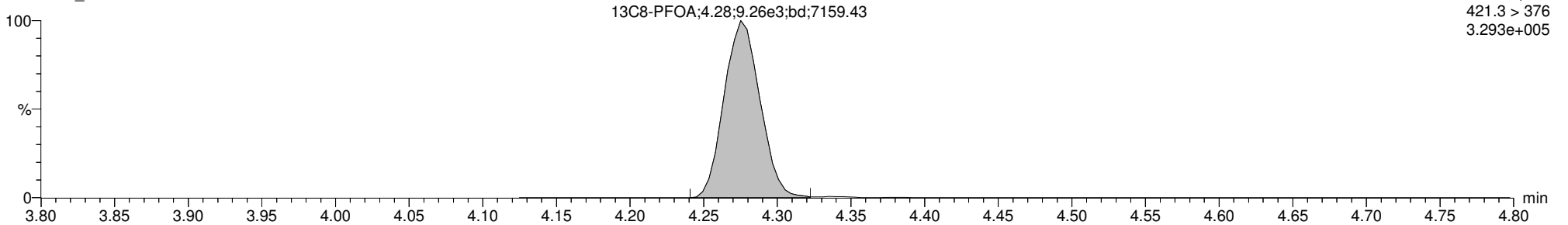
13C2-PFOA

170301G1_26



13C8-PFOA

170301G1_26



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-26.qld

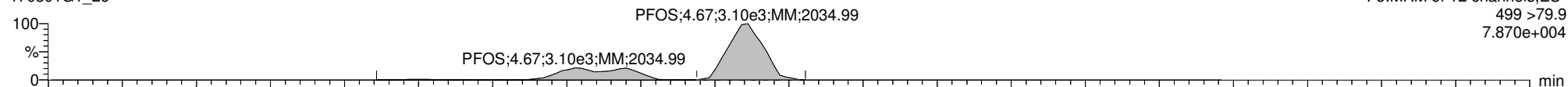
Last Altered: Thursday, March 02, 2017 11:50:32 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:51:02 Pacific Standard Time

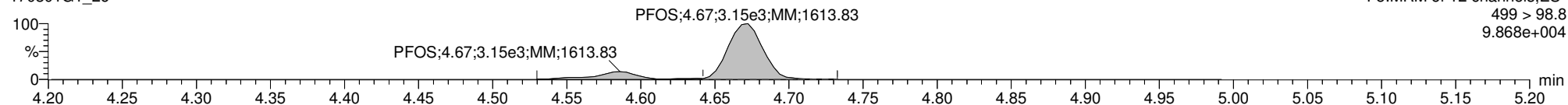
ID: B7B0118-MS1 Matrix Spike 0.125, Description: Matrix Spike, Name: 170301G1_26, Date: 01-Mar-2017, Time: 20:10:56, Instrument: , Lab: , User:

Total PFOS

170301G1_26

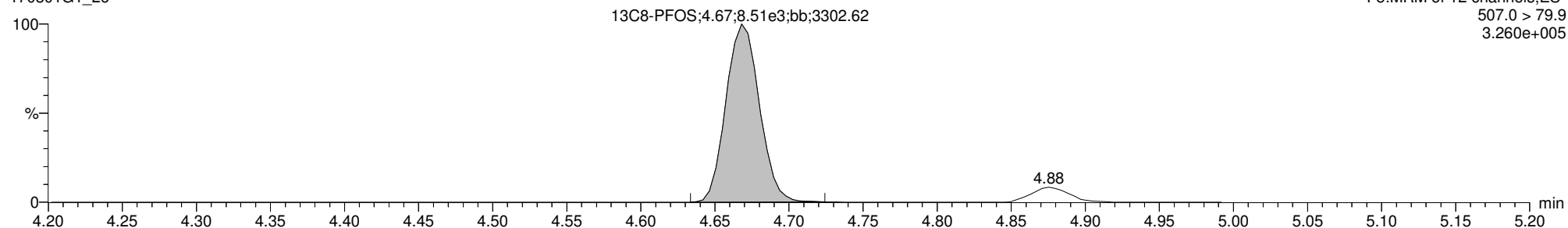


170301G1_26



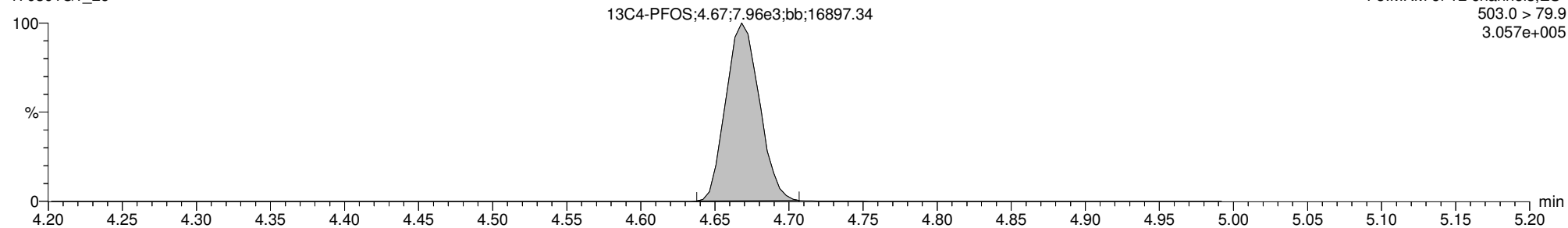
13C8-PFOS

170301G1_26



13C4-PFOS

170301G1_26



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-25.qld

Last Altered: Thursday, March 02, 2017 11:47:34 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:48:18 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_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170301G1_25, Date: 01-Mar-2017, Time: 19:58:14

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.202e4	6.181e3		0.128	2.99	88.0	
2	4 PFOA	413 > 368.7	1.959e4	2.529e4		0.128	4.28	81.9	
3	6 PFOS	499 >79.9	3.289e3	7.710e3		0.128	4.67	79.8	
4	7 13C3-PFBS	302.0 > 98.8	6.181e3	1.399e4	0.442	0.128	2.98	97.4	99.9
5	10 13C2-PFOA	414.9 > 369.7	2.529e4	8.795e3	2.782	0.128	4.28	101	103
6	12 13C8-PFOS	507.0 > 79.9	7.710e3	7.885e3	0.941	0.128	4.67	101	104
7	14 13C3-PFHxS	401.9 > 79.9	1.399e4	1.399e4	1.000	0.128	3.99	97.5	100
8	15 13C8-PFOA	421.3 > 376	8.795e3	8.795e3	1.000	0.128	4.28	97.5	100
9	17 13C4-PFOS	503.0 > 79.9	7.885e3	7.885e3	1.000	0.128	4.67	97.5	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-25.qld

Last Altered: Thursday, March 02, 2017 11:47:34 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:48:37 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_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170301G1_25, Date: 01-Mar-2017, Time: 19:58:14

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		5.758e3		0.128		88.1	
2	20 Total PFOA	413 > 368.7		2.529e4		0.128		81.9	
3	21 Total PFOS	499 > 79.9		7.710e3		0.128		79.8	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-25.qld

Last Altered: Thursday, March 02, 2017 11:47:34 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:48:18 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_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170301G1_25, Date: 01-Mar-2017, Time: 19:58:14

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	18 Total PFBS	299 > 79.7	3.17	6.063	5758.455	0.1
2	1 PFBS	299 > 79.7	2.99	12021.251	6181.496	88.0

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	4.06	6.075	5758.455	
2	3 PFHxS	398.9 > 79.6	3.99	7507.153	5758.455	71.9
3	19 Total PFHxS	398.9 > 79.6	3.89	1527.172	5758.455	14.2
4	19 Total PFHxS	398.9 > 79.6	3.87	450.059	5758.455	3.7
5	19 Total PFHxS	398.9 > 79.6	3.78	10.786	5758.455	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	19585.127	25287.678	81.9

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFOS	499 > 79.9	4.67	3288.741	7709.784	79.8

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-25.qld

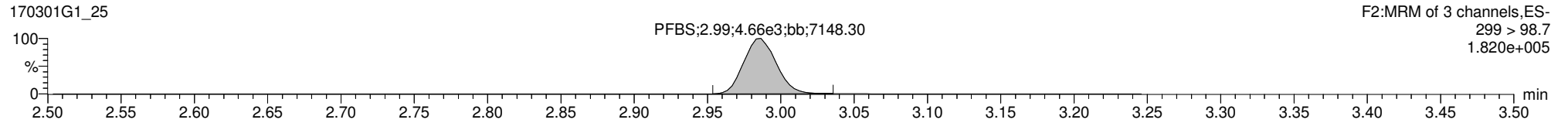
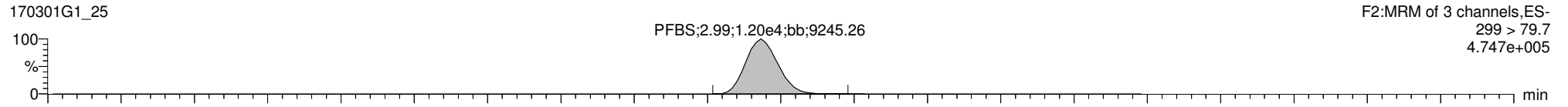
Last Altered: Thursday, March 02, 2017 11:47:34 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:48:18 Pacific Standard Time

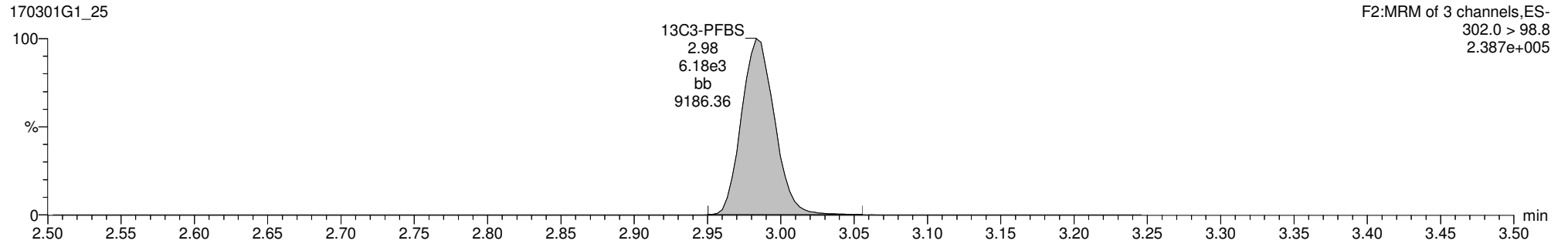
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 02 Mar 2017 11:26:53
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: B7B0118-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170301G1_25, Date: 01-Mar-2017, Time: 19:58:14, Instrument: , Lab: , User:

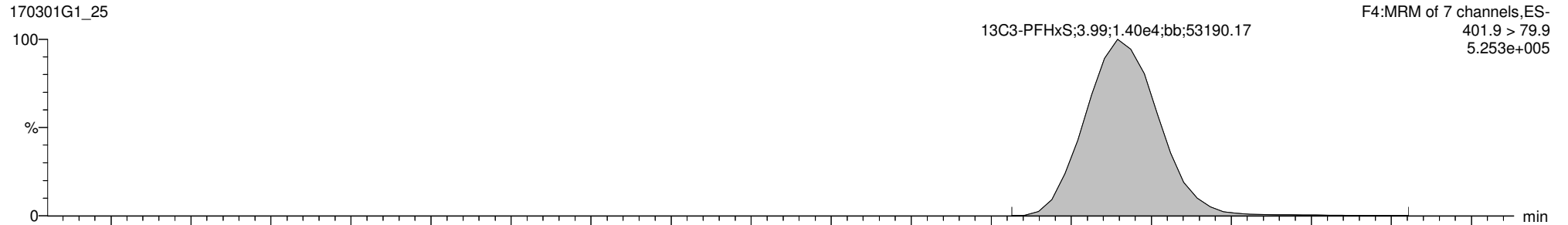
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-25.qld

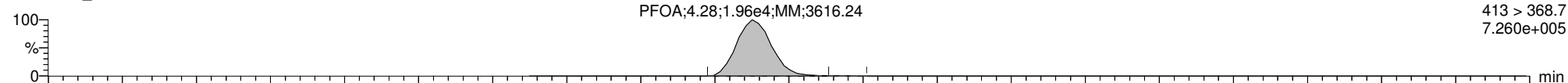
Last Altered: Thursday, March 02, 2017 11:47:34 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:48:18 Pacific Standard Time

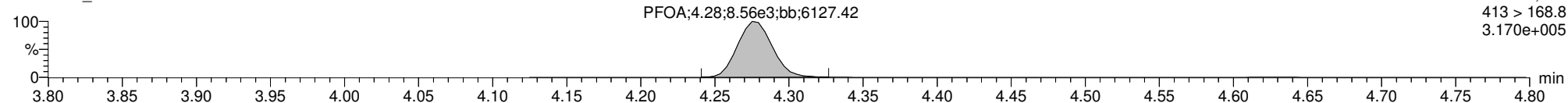
ID: B7B0118-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170301G1_25, Date: 01-Mar-2017, Time: 19:58:14, Instrument: , Lab: , User:

Total PFOA

170301G1_25

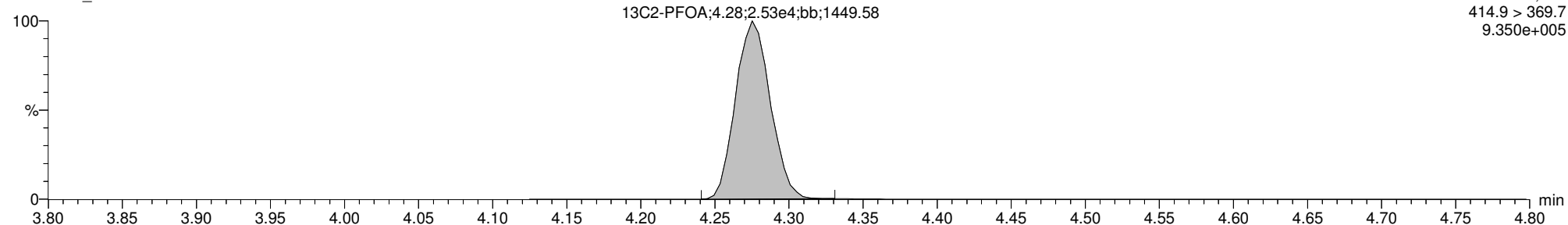


170301G1_25



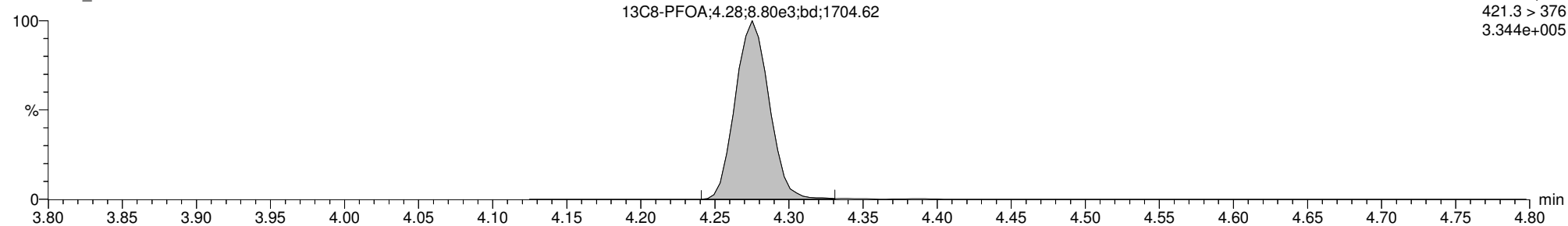
13C2-PFOA

170301G1_25



13C8-PFOA

170301G1_25



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-25.qld

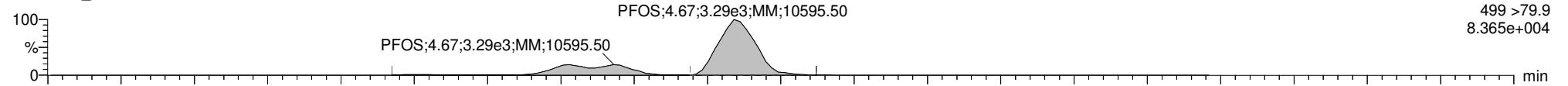
Last Altered: Thursday, March 02, 2017 11:47:34 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:48:18 Pacific Standard Time

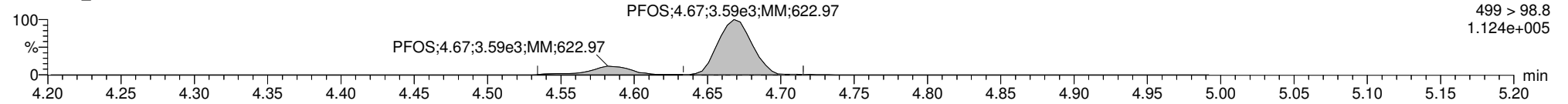
ID: B7B0118-MSD1 Matrix Spike Dup 0.125, Description: Matrix Spike Dup, Name: 170301G1_25, Date: 01-Mar-2017, Time: 19:58:14, Instrument: , Lab: , User:

Total PFOS

170301G1_25

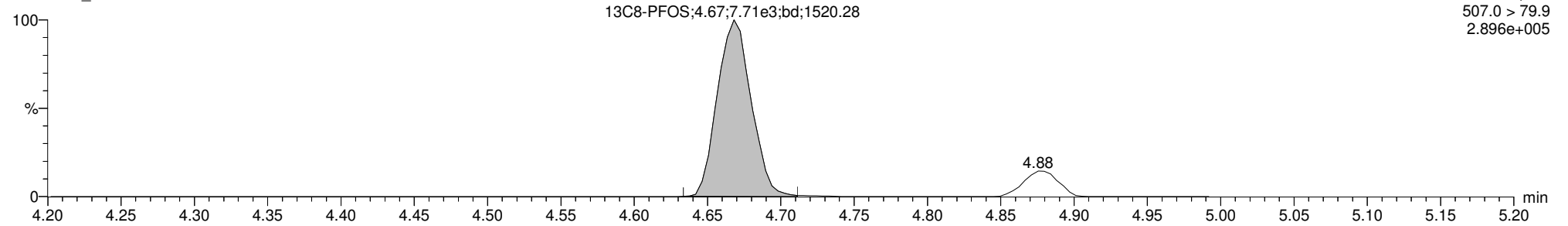


170301G1_25



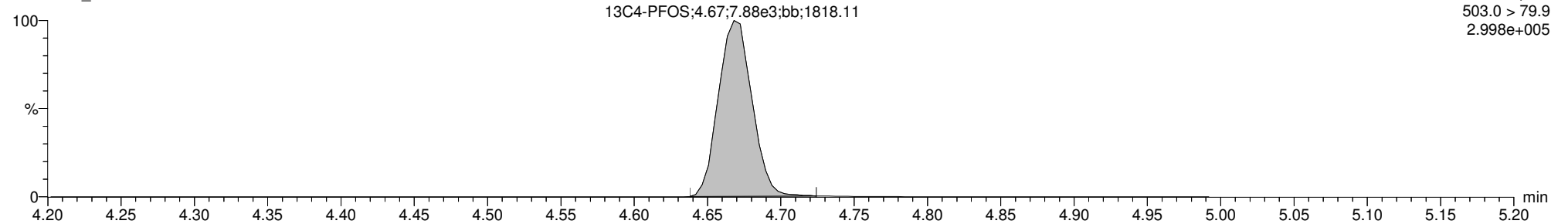
13C8-PFOS

170301G1_25



13C4-PFOS

170301G1_25



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-27.qld

Last Altered: Thursday, March 02, 2017 11:06:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:06:44 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-08 WI-CV-EB02-022117 0.125, Description: WI-CV-EB02-022117, Name: 170301G1_27, Date: 01-Mar-2017, Time: 20:23:23

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7		7.183e3		0.124			
2	4 PFOA	413 > 368.7	1.684e2	3.449e4		0.124	4.28		
3	6 PFOS	499 >79.9		1.388e4		0.124			
4	7 13C3-PFBS	302.0 > 98.8	7.183e3	1.775e4	0.442	0.124	2.98	92.3	91.5
5	10 13C2-PFOA	414.9 > 369.7	3.449e4	1.281e4	2.782	0.124	4.28	97.7	96.8
6	12 13C8-PFOS	507.0 > 79.9	1.388e4	1.545e4	0.941	0.124	4.67	96.3	95.4
7	14 13C3-PFHxS	401.9 > 79.9	1.775e4	1.775e4	1.000	0.124	3.99	101	100
8	15 13C8-PFOA	421.3 > 376	1.281e4	1.281e4	1.000	0.124	4.28	101	100
9	17 13C4-PFOS	503.0 > 79.9	1.545e4	1.545e4	1.000	0.124	4.67	101	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-27.qld

Last Altered: Thursday, March 02, 2017 11:06:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:07:12 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-08 WI-CV-EB02-022117 0.125, Description: WI-CV-EB02-022117, Name: 170301G1_27, Date: 01-Mar-2017, Time: 20:23:23

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		7.227e3		0.124			
2	20 Total PFOA	413 > 368.7		3.449e4		0.124			
3	21 Total PFOS	499 > 79.9		1.388e4		0.124			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-27.qld

Last Altered: Thursday, March 02, 2017 11:06:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:06:44 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-08 WI-CV-EB02-022117 0.125, Description: WI-CV-EB02-022117, Name: 170301G1_27, Date: 01-Mar-2017, Time: 20:23:23

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFHxS	398.9 > 79.6	4.00	25.195	7226.800	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.28	168.421	34485.633	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-27.qld

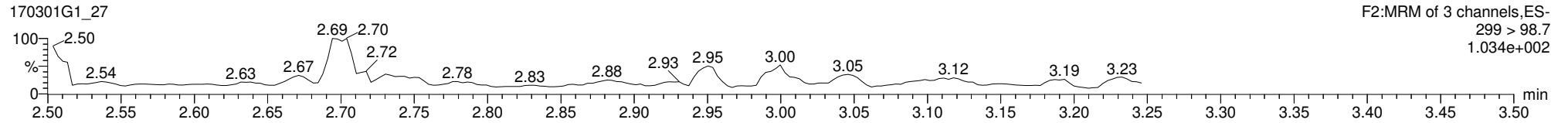
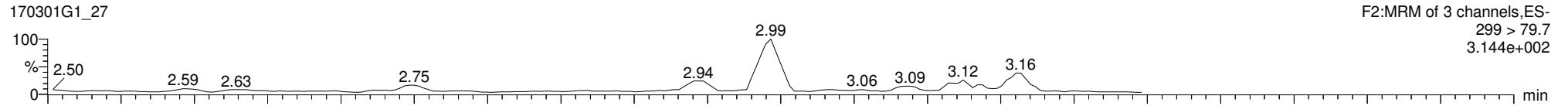
Last Altered: Thursday, March 02, 2017 11:06:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:06:44 Pacific Standard Time

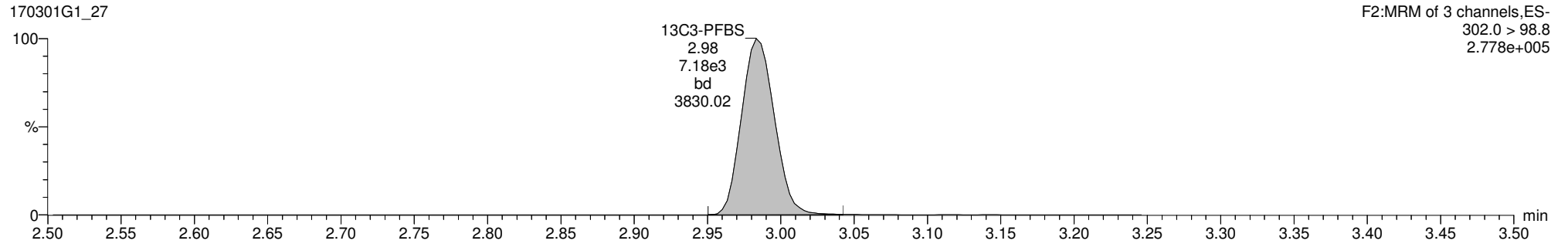
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-08 WI-CV-EB02-022117 0.125, Description: WI-CV-EB02-022117, Name: 170301G1_27, Date: 01-Mar-2017, Time: 20:23:23, Instrument: , Lab: , User:

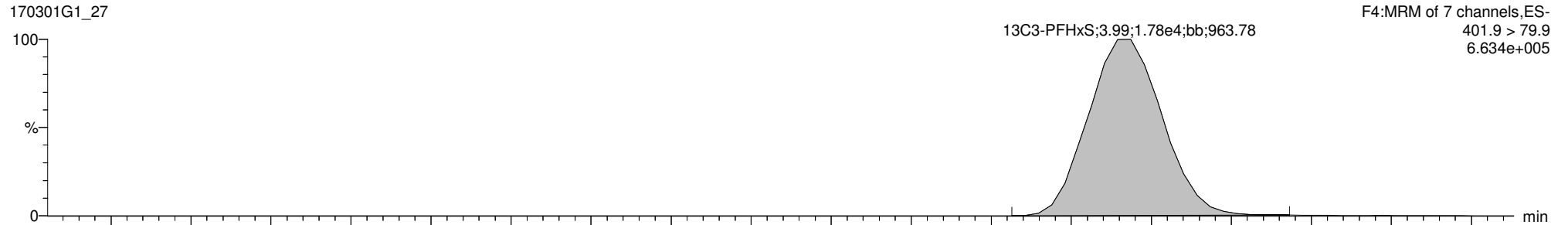
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-27.qld

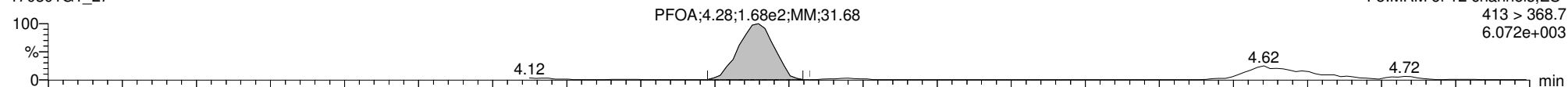
Last Altered: Thursday, March 02, 2017 11:06:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:06:44 Pacific Standard Time

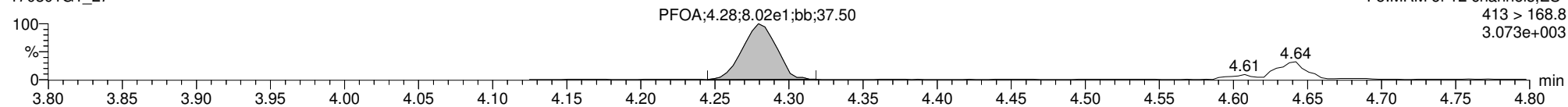
ID: 1700261-08 WI-CV-EB02-022117 0.125, Description: WI-CV-EB02-022117, Name: 170301G1_27, Date: 01-Mar-2017, Time: 20:23:23, Instrument: , Lab: , User:

Total PFOA

170301G1_27

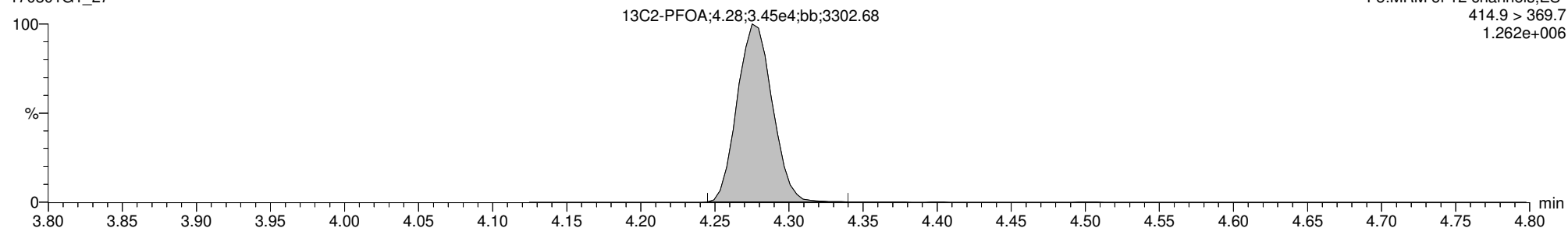


170301G1_27



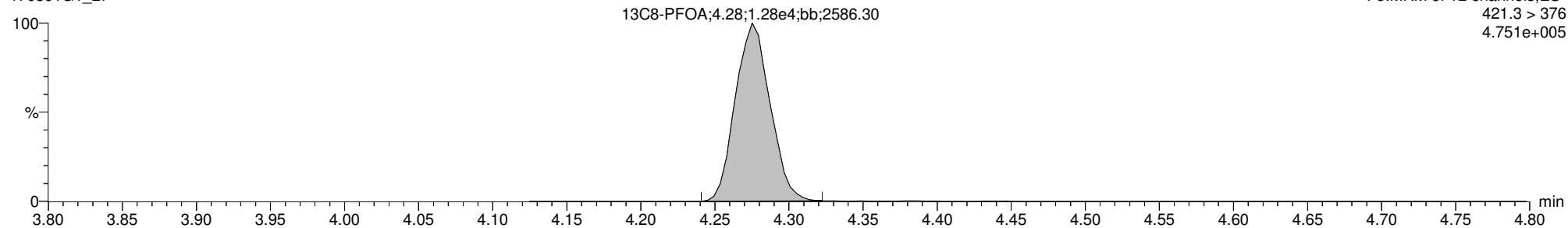
13C2-PFOA

170301G1_27



13C8-PFOA

170301G1_27



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-27.qld

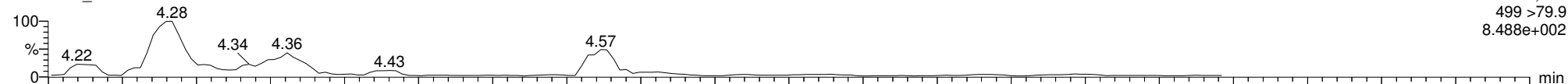
Last Altered: Thursday, March 02, 2017 11:06:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:06:44 Pacific Standard Time

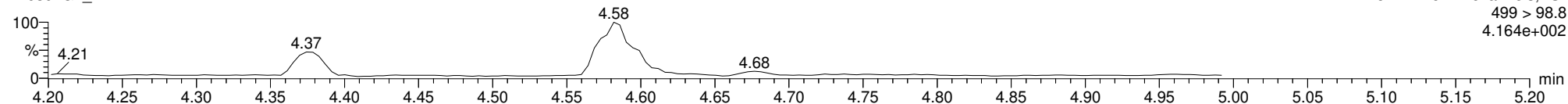
ID: 1700261-08 WI-CV-EB02-022117 0.125, Description: WI-CV-EB02-022117, Name: 170301G1_27, Date: 01-Mar-2017, Time: 20:23:23, Instrument: , Lab: , User:

Total PFOS

170301G1_27

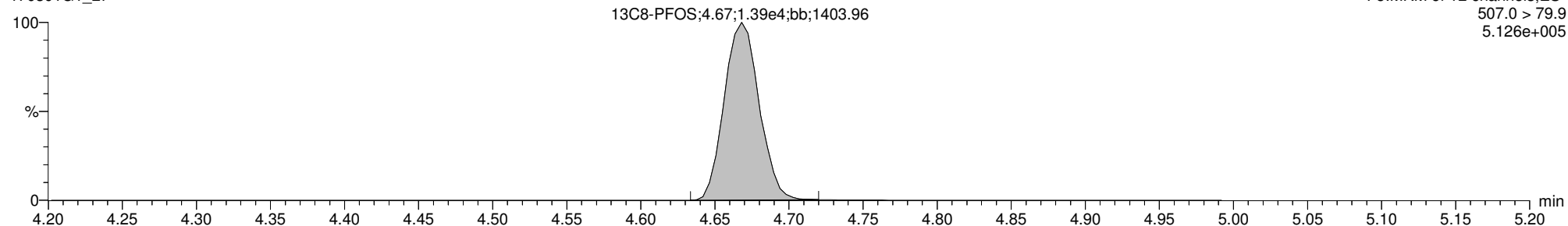


170301G1_27



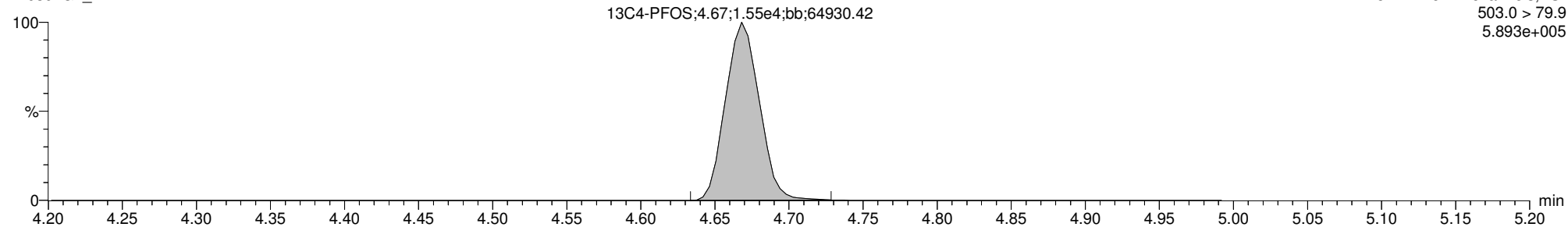
13C8-PFOS

170301G1_27



13C4-PFOS

170301G1_27



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-34.qld

Last Altered: Thursday, March 02, 2017 11:03:23 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:03:40 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-09 WI-CV-EB04-022317 0.125, Description: WI-CV-EB04-022317, Name: 170301G1_34, Date: 01-Mar-2017, Time: 21:51:09

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	4.276e2	6.896e3		0.122	2.99	2.99	
2	4 PFOA	413 > 368.7	1.130e3	3.640e4		0.122	4.27	2.55	
3	6 PFOS	499 >79.9		1.476e4		0.122			
4	7 13C3-PFBS	302.0 > 98.8	6.896e3	1.803e4	0.442	0.122	2.99	88.9	86.5
5	10 13C2-PFOA	414.9 > 369.7	3.640e4	1.219e4	2.782	0.122	4.27	110	107
6	12 13C8-PFOS	507.0 > 79.9	1.476e4	1.499e4	0.941	0.122	4.66	108	105
7	14 13C3-PFHxS	401.9 > 79.9	1.803e4	1.803e4	1.000	0.122	3.99	103	100
8	15 13C8-PFOA	421.3 > 376	1.219e4	1.219e4	1.000	0.122	4.27	103	100
9	17 13C4-PFOS	503.0 > 79.9	1.499e4	1.499e4	1.000	0.122	4.66	103	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-34.qld

Last Altered: Thursday, March 02, 2017 11:03:23 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:03:54 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-09 WI-CV-EB04-022317 0.125, Description: WI-CV-EB04-022317, Name: 170301G1_34, Date: 01-Mar-2017, Time: 21:51:09

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		6.601e3		0.122		2.99	
2	20 Total PFOA	413 > 368.7		3.640e4		0.122		2.55	
3	21 Total PFOS	499 > 79.9		1.476e4		0.122			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-34.qld

Last Altered: Thursday, March 02, 2017 11:03:23 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:03:40 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-09 WI-CV-EB04-022317 0.125, Description: WI-CV-EB04-022317, Name: 170301G1_34, Date: 01-Mar-2017, Time: 21:51:09

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	1 PFBS	299 > 79.7	2.99	427.578	6895.925	3.0

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	3.89	89.983	6600.804	0.1
2	19 Total PFHxS	398.9 > 79.6	3.86	51.245	6600.804	
3	3 PFHxS	398.9 > 79.6	3.99	447.313	6600.804	3.3

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.27	1130.024	36402.469	2.5
2	20 Total PFOA	413 > 368.7	4.18	271.060	36402.469	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-34.qld

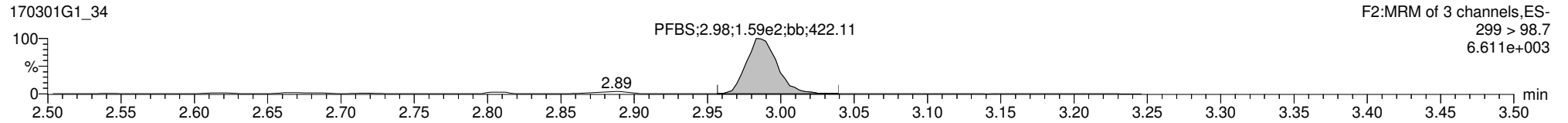
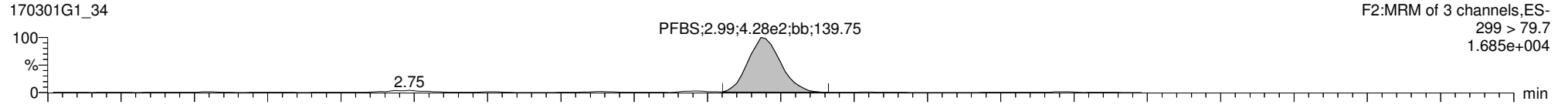
Last Altered: Thursday, March 02, 2017 11:03:23 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:03:40 Pacific Standard Time

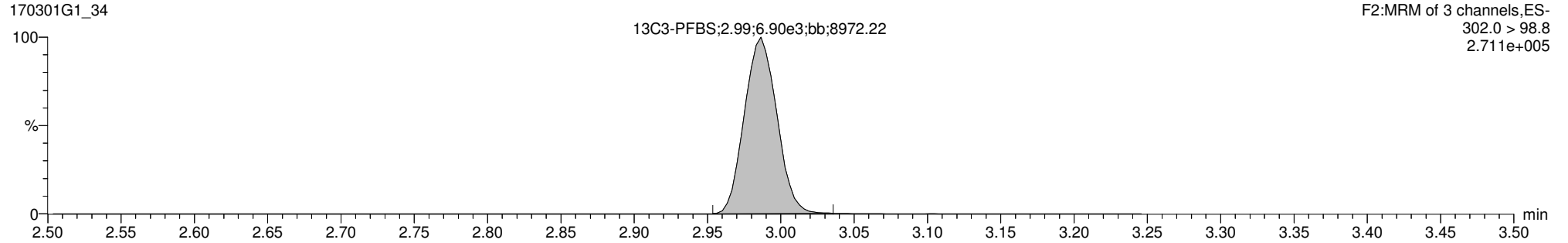
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-09 WI-CV-EB04-022317 0.125, Description: WI-CV-EB04-022317, Name: 170301G1_34, Date: 01-Mar-2017, Time: 21:51:09, Instrument: , Lab: , User:

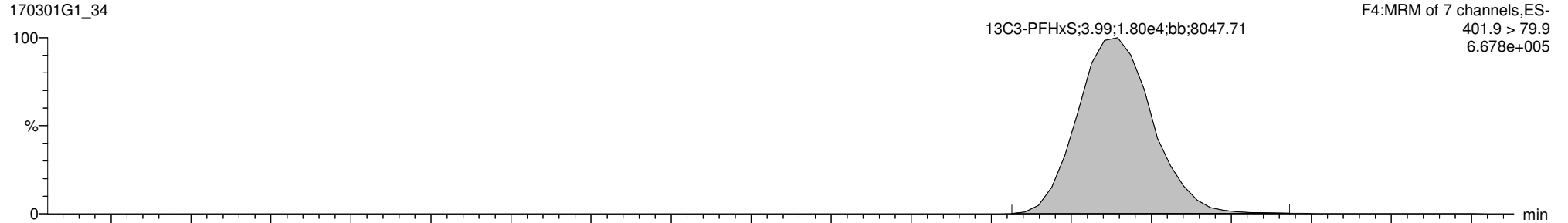
PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-34.qld

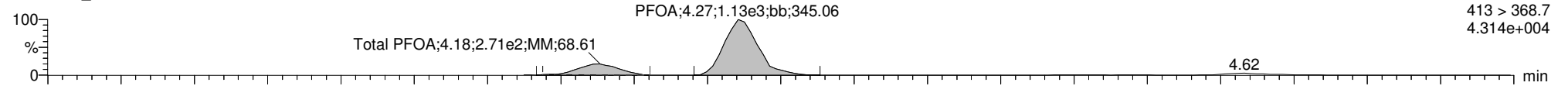
Last Altered: Thursday, March 02, 2017 11:03:23 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:03:40 Pacific Standard Time

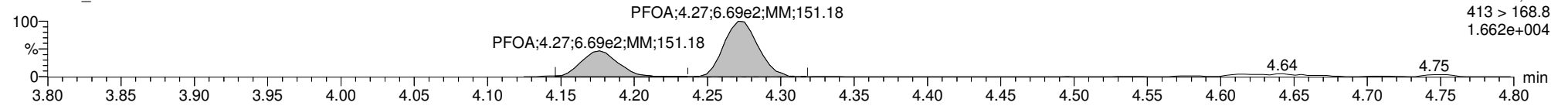
ID: 1700261-09 WI-CV-EB04-022317 0.125, Description: WI-CV-EB04-022317, Name: 170301G1_34, Date: 01-Mar-2017, Time: 21:51:09, Instrument: , Lab: , User:

Total PFOA

170301G1_34

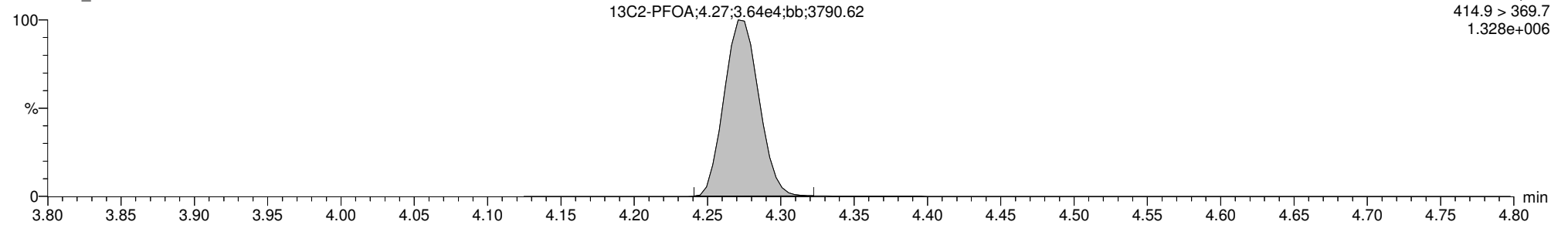


170301G1_34



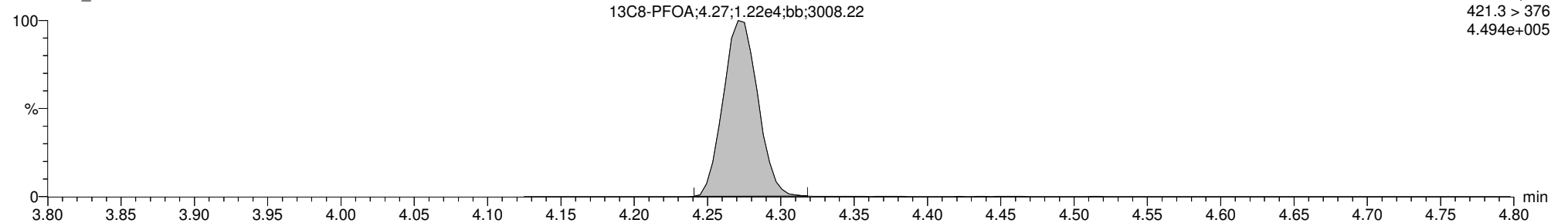
13C2-PFOA

170301G1_34



13C8-PFOA

170301G1_34



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-34.qld

Last Altered: Thursday, March 02, 2017 11:03:23 Pacific Standard Time

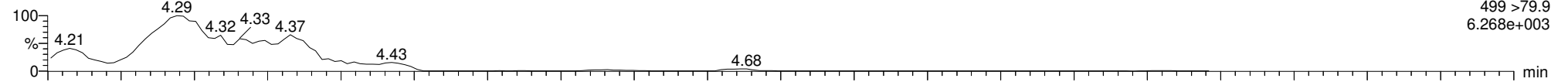
Printed: Thursday, March 02, 2017 11:03:40 Pacific Standard Time

ID: 1700261-09 WI-CV-EB04-022317 0.125, Description: WI-CV-EB04-022317, Name: 170301G1_34, Date: 01-Mar-2017, Time: 21:51:09, Instrument: , Lab: , User:

Total PFOS

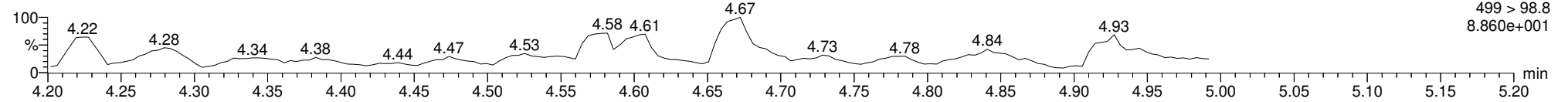
170301G1_34

F5:MRM of 12 channels,ES-
499 >79.9
6.268e+003



170301G1_34

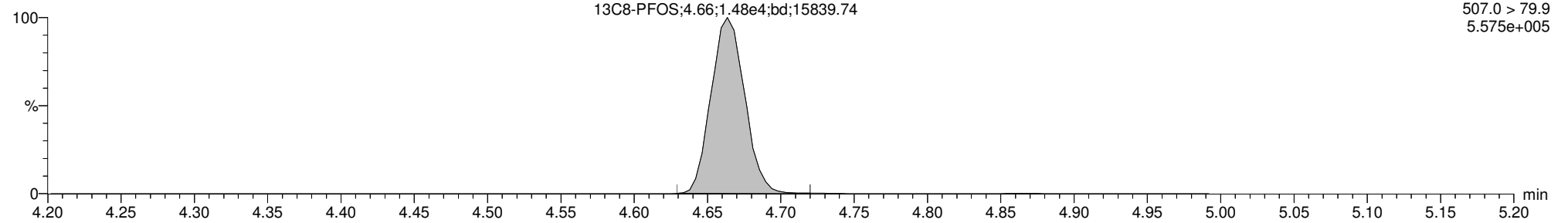
F5:MRM of 12 channels,ES-
499 > 98.8
8.860e+001



13C8-PFOS

170301G1_34

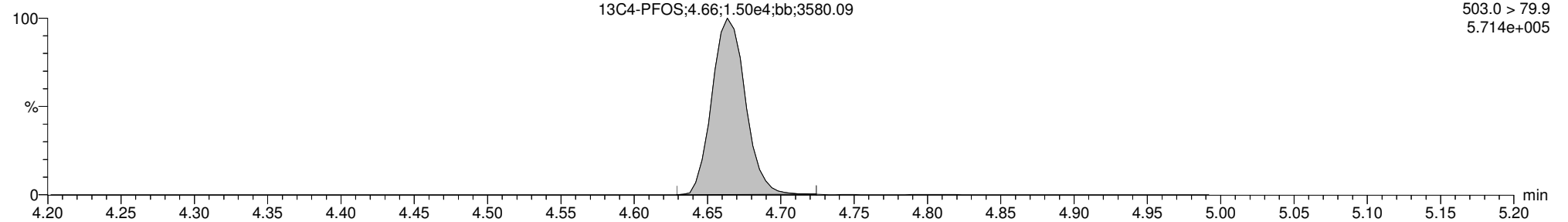
F5:MRM of 12 channels,ES-
507.0 > 79.9
5.575e+005



13C4-PFOS

170301G1_34

F5:MRM of 12 channels,ES-
503.0 > 79.9
5.714e+005



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-35.qld

Last Altered: Thursday, March 02, 2017 11:10:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:10:31 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-10 WI-CV-GW13M-0217 0.125, Description: WI-CV-GW13M-0217, Name: 170301G1_35, Date: 01-Mar-2017, Time: 22:03:43

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	1.873e4	6.275e3		0.128	2.98	135	
2	4 PFOA	413 > 368.7	3.883e3	2.784e4		0.128	4.27	14.0	
3	6 PFOS	499 >79.9	9.606e0	9.195e3		0.128	4.58	0.278	
4	7 13C3-PFBS	302.0 > 98.8	6.275e3	1.539e4	0.442	0.128	2.98	89.7	92.2
5	10 13C2-PFOA	414.9 > 369.7	2.784e4	8.592e3	2.782	0.128	4.27	113	116
6	12 13C8-PFOS	507.0 > 79.9	9.195e3	9.236e3	0.941	0.128	4.66	103	106
7	14 13C3-PFHxS	401.9 > 79.9	1.539e4	1.539e4	1.000	0.128	3.99	97.3	100
8	15 13C8-PFOA	421.3 > 376	8.592e3	8.592e3	1.000	0.128	4.27	97.3	100
9	17 13C4-PFOS	503.0 > 79.9	9.236e3	9.236e3	1.000	0.128	4.66	97.3	100

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-35.qld

Last Altered: Thursday, March 02, 2017 11:10:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:10:44 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-10 WI-CV-GW13M-0217 0.125, Description: WI-CV-GW13M-0217, Name: 170301G1_35, Date: 01-Mar-2017, Time: 22:03:43

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	18 Total PFBS	299 > 79.7		6.308e3		0.128		139	
2	20 Total PFOA	413 > 368.7		2.784e4		0.128		20.4	
3	21 Total PFOS	499 > 79.9		9.195e3		0.128		0.278	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-35.qld

Last Altered: Thursday, March 02, 2017 11:10:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:10:31 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-10 WI-CV-GW13M-0217 0.125, Description: WI-CV-GW13M-0217, Name: 170301G1_35, Date: 01-Mar-2017, Time: 22:03:43

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	1 PFBS	299 > 79.7	2.98	18731.404	6275.069	134.8
2	18 Total PFBS	299 > 79.7	2.86	518.945	6308.284	3.7

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	19 Total PFHxS	398.9 > 79.6	4.04	5.052	6308.284	
2	3 PFHxS	398.9 > 79.6	3.99	4169.701	6308.284	36.2
3	19 Total PFHxS	398.9 > 79.6	3.89	1777.173	6308.284	15.1
4	19 Total PFHxS	398.9 > 79.6	3.86	949.452	6308.284	7.7
5	19 Total PFHxS	398.9 > 79.6	3.78	39.277	6308.284	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	4 PFOA	413 > 368.7	4.27	3883.364	27842.727	14.0
2	20 Total PFOA	413 > 368.7	4.17	1906.464	27842.727	6.4

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFOS	499 > 79.9	4.58	9.606	9195.147	0.3

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-35.qld

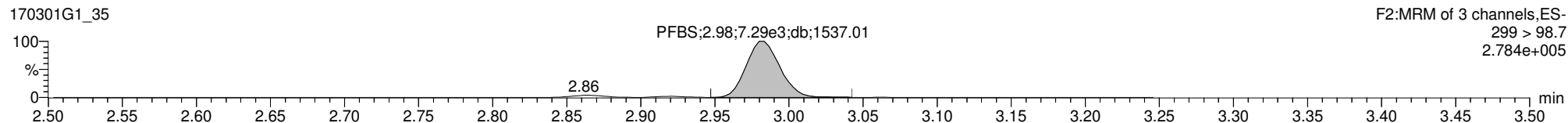
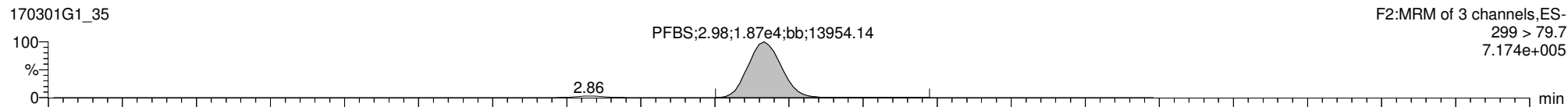
Last Altered: Thursday, March 02, 2017 11:10:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:10:31 Pacific Standard Time

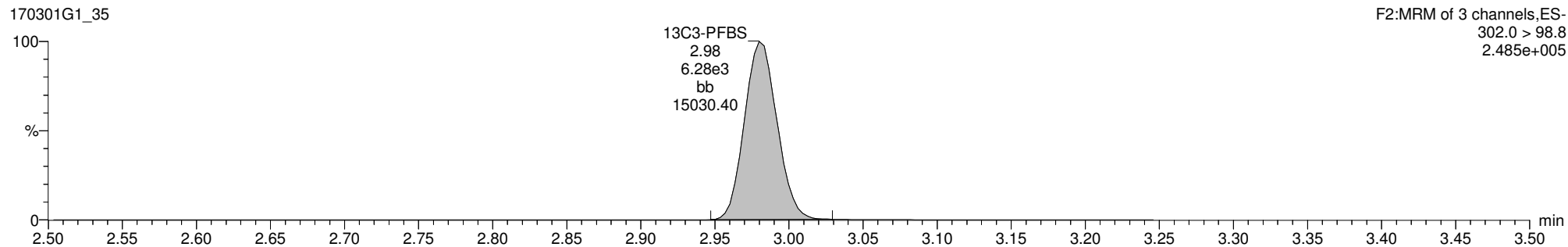
Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

ID: 1700261-10 WI-CV-GW13M-0217 0.125, Description: WI-CV-GW13M-0217, Name: 170301G1_35, Date: 01-Mar-2017, Time: 22:03:43, Instrument: , Lab: , User:

PFBS



13C3-PFBS



13C3-PFHxS



Reviewed: CT 03/02/17

ES 3/2/17

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-35.qld

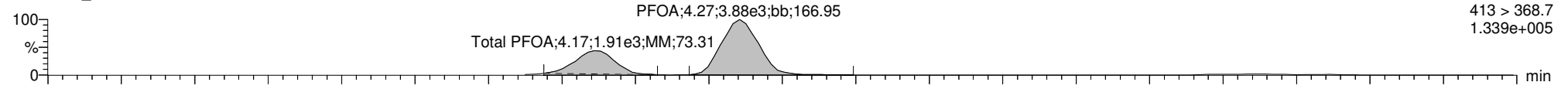
Last Altered: Thursday, March 02, 2017 11:10:01 Pacific Standard Time

Printed: Thursday, March 02, 2017 11:10:31 Pacific Standard Time

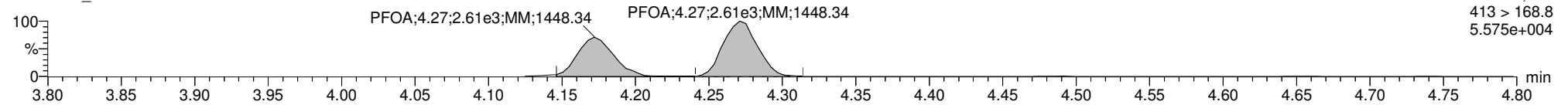
ID: 1700261-10 WI-CV-GW13M-0217 0.125, Description: WI-CV-GW13M-0217, Name: 170301G1_35, Date: 01-Mar-2017, Time: 22:03:43, Instrument: , Lab: , User:

Total PFOA

170301G1_35

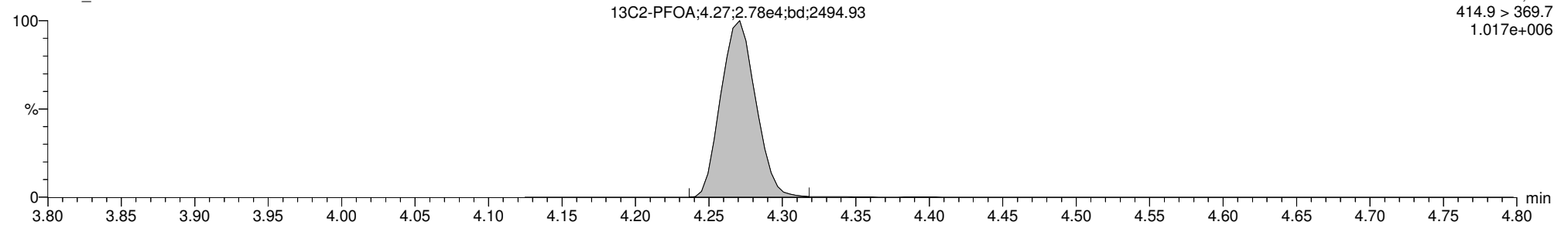


170301G1_35



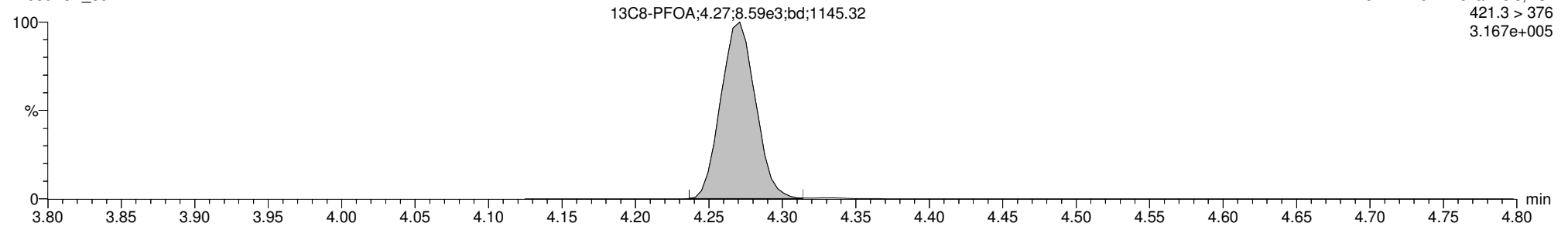
13C2-PFOA

170301G1_35



13C8-PFOA

170301G1_35



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-35.qld

Last Altered: Thursday, March 02, 2017 11:10:01 Pacific Standard Time

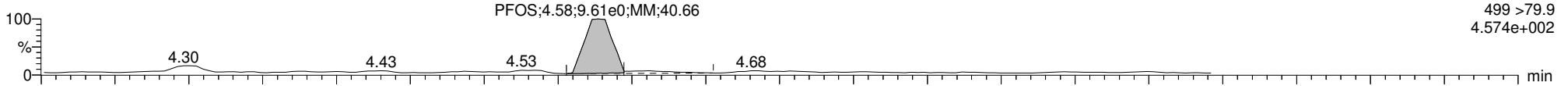
Printed: Thursday, March 02, 2017 11:10:31 Pacific Standard Time

ID: 1700261-10 WI-CV-GW13M-0217 0.125, Description: WI-CV-GW13M-0217, Name: 170301G1_35, Date: 01-Mar-2017, Time: 22:03:43, Instrument: , Lab: , User:

Total PFOS

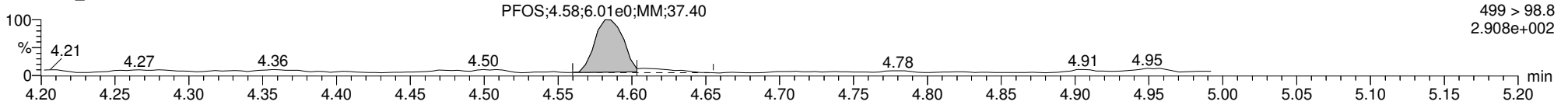
170301G1_35

F5:MRM of 12 channels,ES-
499 >79.9
4.574e+002



170301G1_35

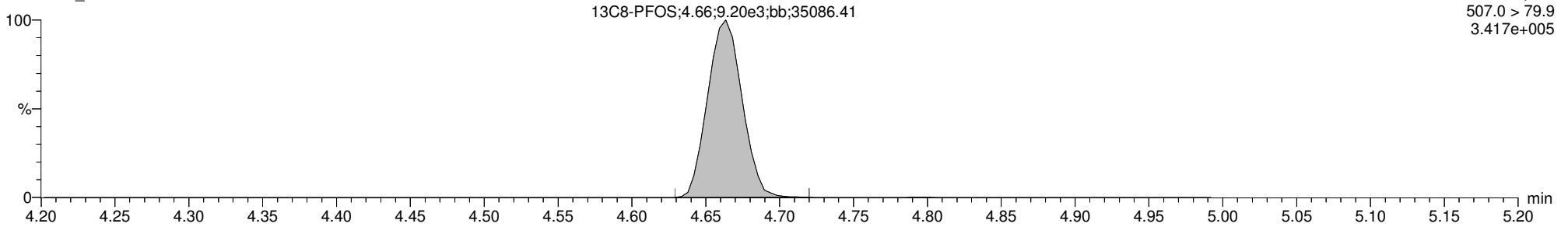
F5:MRM of 12 channels,ES-
499 > 98.8
2.908e+002



13C8-PFOS

170301G1_35

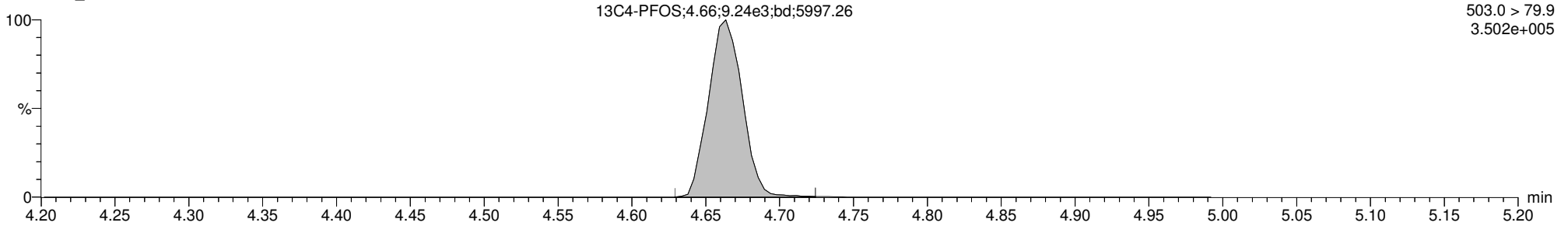
F5:MRM of 12 channels,ES-
507.0 > 79.9
3.417e+005



13C4-PFOS

170301G1_35

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.502e+005



CONTINUING CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-29.qld

Last Altered: Thursday, March 02, 2017 09:18:09 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:19:04 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Name: 170301G1_29, Date: 01-Mar-2017, Time: 20:48:27, ID: ST170301G1-9 PFC CS2 17C0123, Description: PFC CS2 17C0123 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	6.78e3	7.52e3		1.000	2.99	5.23	104.7
2	2 PFHpA	363 > 318.9	1.46e4	2.10e4		1.000	3.88	4.73	94.6
3	3 PFHxS	398.9 > 79.6	5.91e3	7.38e3		1.000	3.99	5.64	112.9
4	4 PFOA	413 > 368.7	1.20e4	3.67e4		1.000	4.28	4.35	87.0
5	5 PFNA	463 > 418.8	1.11e4	1.17e4		1.000	4.61	5.44	108.9
6	6 PFOS	499 > 79.9	2.09e3	1.05e4		1.000	4.67	4.77	95.4
7	7 13C3-PFBS	302.0 > 98.8	7.52e3	1.84e4	0.442	1.000	2.98	11.6	92.6
8	8 13C4-PFHpA	367.2 > 321.8	2.10e4	1.84e4	1.117	1.000	3.87	12.8	102.2
9	9 18O2-PFHxS	403 > 102.6	7.38e3	1.84e4	0.420	1.000	3.99	12.0	95.7
10	10 13C2-PFOA	414.9 > 369.7	3.67e4	1.11e4	2.782	1.000	4.28	14.9	118.8
11	11 13C5-PFNA	468.2 > 422.9	1.17e4	1.28e4	0.846	1.000	4.61	13.4	107.5
12	12 13C8-PFOS	507.0 > 79.9	1.05e4	1.06e4	0.941	1.000	4.67	13.2	105.3
13	13 13C5-PFHxA	318 > 272.9	3.07e4	3.07e4	1.000	1.000	3.36	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.84e4	1.84e4	1.000	1.000	3.99	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	1.11e4	1.11e4	1.000	1.000	4.28	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.28e4	1.28e4	1.000	1.000	4.61	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.06e4	1.06e4	1.000	1.000	4.67	12.5	100.0

75-125
↓
60-150
↓
80-150
60-150
↓

ES 3/2/17

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:06:06 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:06:22 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170301G1_1	IPA	01-Mar-17	14:57:20
2	170301G1_2	ST170301G1-1 PFC CS-2 17C0119	01-Mar-17	15:09:39
3	170301G1_3	ST170301G1-2 PFC CS-1 17C0120	01-Mar-17	15:22:08
4	170301G1_4	ST170301G1-3 PFC CS0 17C0121	01-Mar-17	15:34:43
5	170301G1_5	ST170301G1-4 PFC CS1 17C0122	01-Mar-17	15:47:17
6	170301G1_6	ST170301G1-5 PFC CS2 17C0123	01-Mar-17	15:59:50
7	170301G1_7	ST170301G1-6 PFC CS3 17C0124	01-Mar-17	16:12:23
8	170301G1_8	ST170301G1-7 PFC CS4 17C0125	01-Mar-17	16:24:59
9	170301G1_9	ST170301G1-8 PFC CS5 17B2726	01-Mar-17	16:37:33
10	170301G1_10	IPA	01-Mar-17	16:50:06
11	170301G1_11	SS170301G1-1 PFC SSS 17C0127	01-Mar-17	17:02:38
12	170301G1_12	IPA	01-Mar-17	17:15:08
13	170301G1_13	B7B0118-BS1 OPR 0.125	01-Mar-17	17:27:46
14	170301G1_14	B7B0114-BS1 OPR 0.125	01-Mar-17	17:40:13
15	170301G1_15	IPA	01-Mar-17	17:52:54
16	170301G1_16	B7B0118-BLK1 Method Blank 0.125	01-Mar-17	18:05:24
17	170301G1_17	B7B0114-BLK1 Method Blank 0.125	01-Mar-17	18:17:56
18	170301G1_18	1700261-01 WI-CV-GW10D-0217 0.125	01-Mar-17	18:30:28
19	170301G1_19	1700261-02 WI-CV-EB01-022017 0.125	01-Mar-17	18:43:01
20	170301G1_20	1700261-03 WI-CV-GW065-0217 0.125	01-Mar-17	18:55:35
21	170301G1_21	1700261-04 WI-CV-GW065/5P-0217 0.125	01-Mar-17	19:08:08
22	170301G1_22	1700261-05 WI-CV-GW105-0217 0.125	01-Mar-17	19:20:37
23	170301G1_23	1700261-06 WI-CV-EB03-022217 0.125	01-Mar-17	19:33:12
24	170301G1_24	1700261-07 WI-CV-GW06M-0217 0.125	01-Mar-17	19:45:41
25	170301G1_25	B7B0118-MSD1 Matrix Spike Dup 0.125	01-Mar-17	19:58:14
26	170301G1_26	B7B0118-MS1 Matrix Spike 0.125	01-Mar-17	20:10:56
27	170301G1_27	1700261-08 WI-CV-EB02-022117 0.125	01-Mar-17	20:23:23
28	170301G1_28	IPA	01-Mar-17	20:35:54
29	170301G1_29	ST170301G1-9 PFC CS2 17C0123	01-Mar-17	20:48:27
30	170301G1_30	IPA	01-Mar-17	21:01:00
31	170301G1_31	B7B0129-BS1 OPR 0.125	01-Mar-17	21:13:33
32	170301G1_32	IPA	01-Mar-17	21:26:03

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:06:06 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:06:22 Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
33	170301G1_33	B7B0129-BLK1 Method Blank 0.125	01-Mar-17	21:38:38
34	170301G1_34	1700261-09 WI-CV-EB04-022317 0.125	01-Mar-17	21:51:09
35	170301G1_35	1700261-10 WI-CV-GW13M-0217 0.125	01-Mar-17	22:03:43
36	170301G1_36	1700245-01 Milk - 012617 0.125	01-Mar-17	22:16:13
37	170301G1_37	1700263-01 OW2E-MW09R-0217 0.12578	01-Mar-17	22:28:46
38	170301G1_38	1700263-02 OW2E-MW09RP-0217 0.12994	01-Mar-17	22:41:20
39	170301G1_39	1700263-03 OW2C-MW05-0217 0.13161	01-Mar-17	22:53:54
40	170301G1_40	1700263-04 OW2C-MW25-0217 0.12534	01-Mar-17	23:06:27
41	170301G1_41	1700263-05 OW2C-MW19-0217 0.12438	01-Mar-17	23:19:00
42	170301G1_42	B7B0129-MS1 Matrix Spike 0.12756	01-Mar-17	23:31:30
43	170301G1_43	B7B0129-MSD1 Matrix Spike Dup 0.12637	01-Mar-17	23:44:02
44	170301G1_44	1700263-06 OW2C-MW24-0217 0.1257	01-Mar-17	23:56:35
45	170301G1_45	1700263-07 OW2C-EB-0217 0.12647	02-Mar-17	00:09:09
46	170301G1_46	1700263-08 OW2C-FB-0217 0.13011	02-Mar-17	00:21:42
47	170301G1_47	IPA	02-Mar-17	00:34:15
48	170301G1_48	ST170301G1-10 PFC CS2 17C0123	02-Mar-17	00:46:50
49	170301G1_49	IPA	02-Mar-17	00:59:21

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>ST17030161-9</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>↓ -10</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"/>

Full Mass Cai. Date: 12/6/17

Run Log Present:

of Samples per Sequence Checked:

Reviewed By: elm 3/2/17
Initials/Date

Comments:
 L6 ; Two Transitions

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:19:39 Pacific Standard Time
Printed: Thursday, March 02, 2017 09:22:00 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

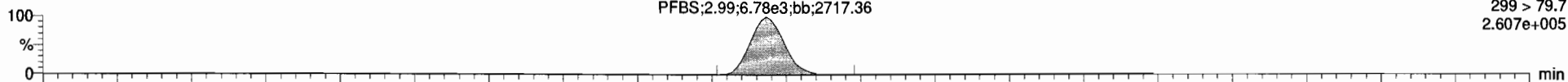
ID: ST170301G1-9 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_29, Date: 01-Mar-2017, Time: 20:48:27, Instrument: , Lab: , User:

PFBS

170301G1_29

PFBS;2.99;6.78e3;bb;2717.36

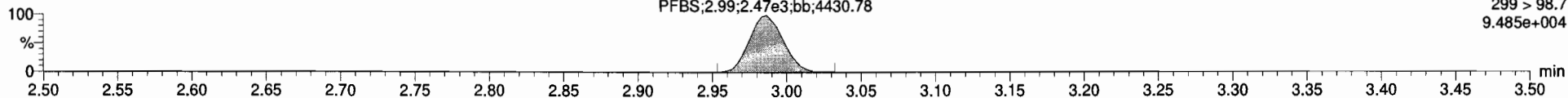
F2:MRM of 3 channels,ES-
299 > 79.7
2.607e+005



170301G1_29

PFBS;2.99;2.47e3;bb;4430.78

F2:MRM of 3 channels,ES-
299 > 98.7
9.485e+004

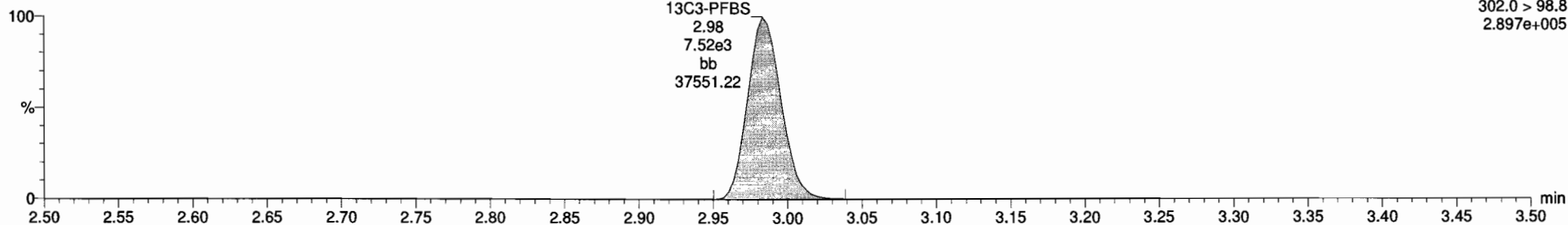


13C3-PFBS

170301G1_29

13C3-PFBS
2.98
7.52e3
bb
37551.22

F2:MRM of 3 channels,ES-
302.0 > 98.8
2.897e+005

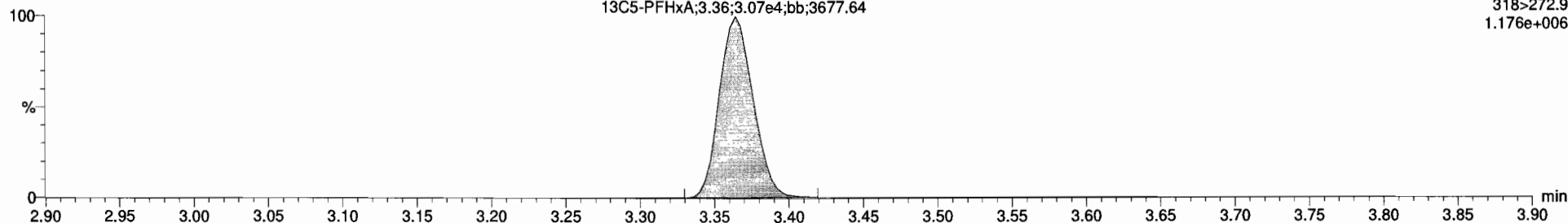


13C5-PFHxA

170301G1_29

13C5-PFHxA;3.36;3.07e4;bb;3677.64

F3:MRM of 1 channel,ES-
318>272.9
1.176e+006



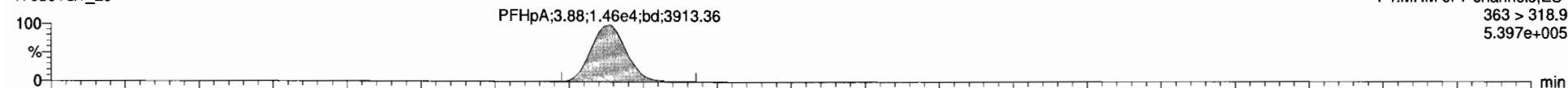
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:19:39 Pacific Standard Time
Printed: Thursday, March 02, 2017 09:22:00 Pacific Standard Time

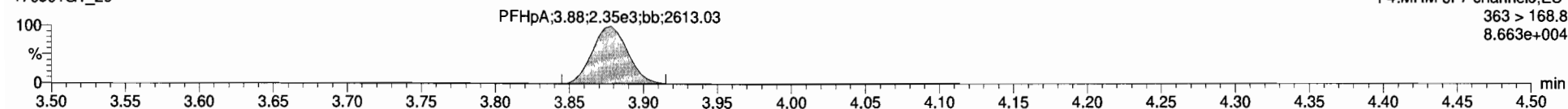
ID: ST170301G1-9 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_29, Date: 01-Mar-2017, Time: 20:48:27, Instrument: , Lab: , User:

PFHpA

170301G1_29

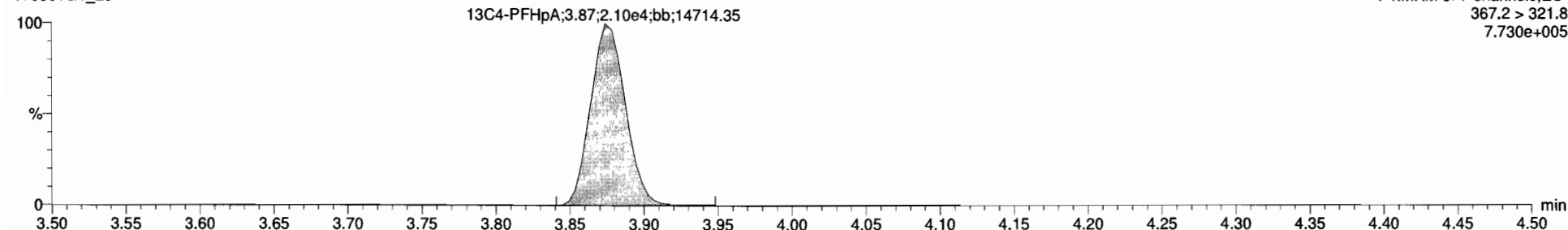


170301G1_29



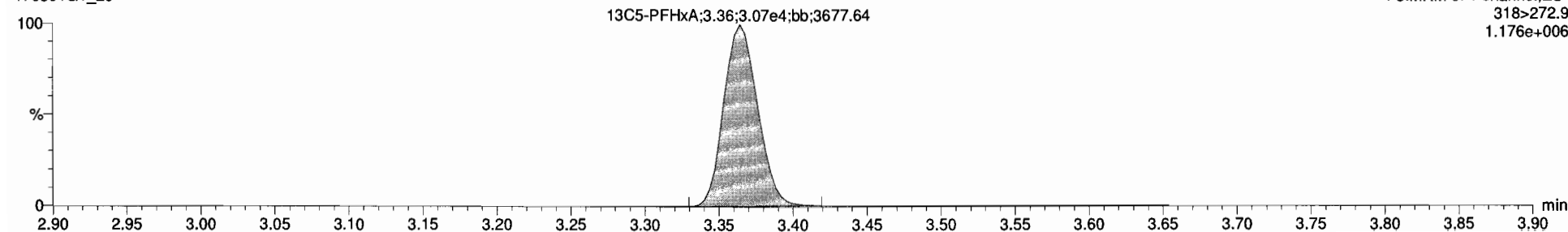
13C4-PFHpA

170301G1_29



13C5-PFHxA

170301G1_29



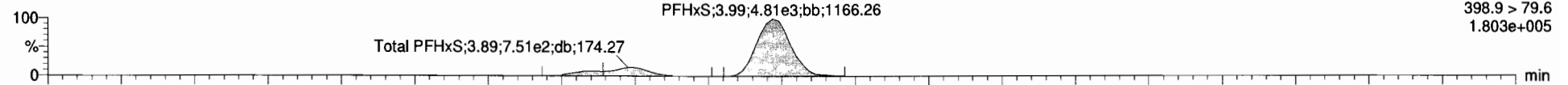
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:19:39 Pacific Standard Time
Printed: Thursday, March 02, 2017 09:22:00 Pacific Standard Time

ID: ST170301G1-9 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_29, Date: 01-Mar-2017, Time: 20:48:27, Instrument: , Lab: , User:

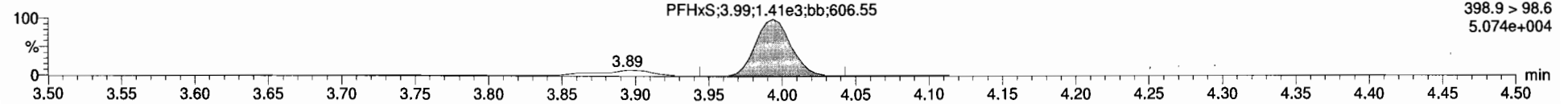
Total PFHxS

170301G1_29



F4:MRM of 7 channels,ES-
398.9 > 79.6
1.803e+005

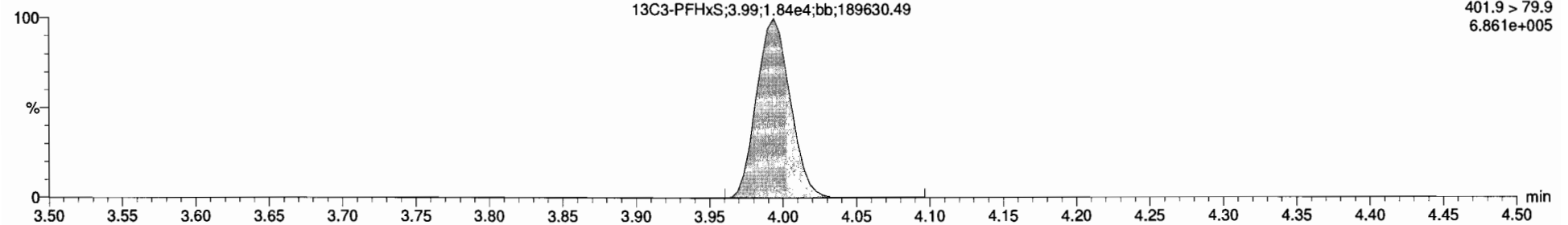
170301G1_29



F4:MRM of 7 channels,ES-
398.9 > 98.6
5.074e+004

13C3-PFHxS

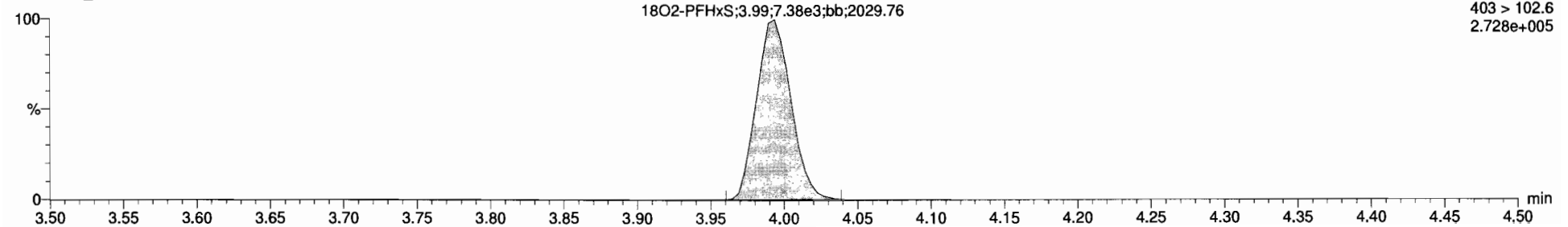
170301G1_29



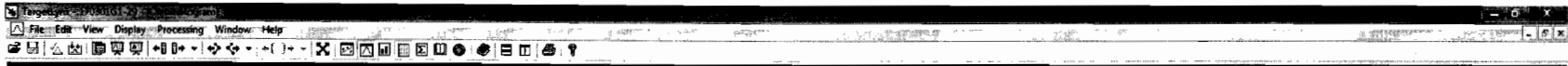
F4:MRM of 7 channels,ES-
401.9 > 79.9
6.861e+005

18O2-PFHxS

170301G1_29

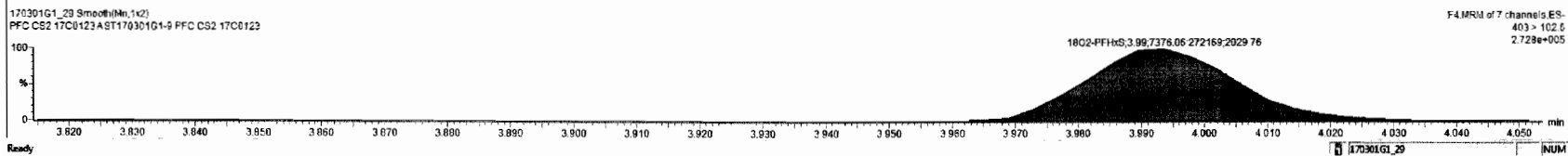
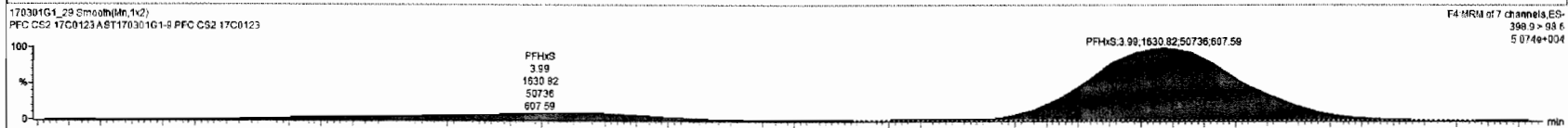


F4:MRM of 7 channels,ES-
403 > 102.6
2.728e+005



170301G1_29 - ST170301G1-9 PFC CS2 17C0123 - PFC CS2 17C0123 A

#	Name	Conc	DL	SRUC	EMPC	Abn Retp	RRF	RT	W	Ear	RA	N/N	RRT	Acq Date	Acq Time	1 ^o Chr Name	D	Sample Test	Factor1	SWP	Cal/Fw	INCL
1	PFBS	5.233006	0.0086	104.7		6.775e3		2.99	1	7	0.365	YES	1.001	01-Mar-17	20:43:27	21.343	ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
2	PFHA	4.7280911		94.6		1.482e4		3.68	2	8			1.001	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
3	PFHxS	4.2645476		112.8		5.905e3		3.99	3	9			1.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
4	PFOA	4.3492881		87.0		1.195e4		4.28	4	10			1.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
5	PFNA	5.4440177		108.9		1.106e4		4.61	5	11			1.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
6	PFOS	4.7718719	0.0168	95.4		2.006e3		4.67	6	12			0.999	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
7	13C3-PFBS	11.570426	0.000794	92.6		7.515e3	0.442	2.98	7	14			0.887	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
8	13C4-PFHA	12.780749	0.00214	102.2		2.096e4	1.117	3.67	8	14			0.970	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
9	18O2-PFHxS	11.957173	0.0145	95.7		7.376e3	0.420	3.99	9	14			1.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
10	13C2-PFOA	14.855667	0.0115	118.8		3.671e4	2.782	4.28	10	15			1.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
11	13C5-PFNA	13.438076	0.00548	107.5		1.167e4	0.846	4.61	11	16			1.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
12	13C3-PFOS	13.158179	0.00453	105.3		1.050e4	0.941	4.67	12	17			1.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
13	13C5-PFHA	12.500000	0.00850	100.0		3.070e4	1.000	3.36	13	13			0.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
14	13C3-PFHxS	12.500000	0.000165	100.0		1.636e4	1.000	3.99	14	14			0.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
15	13C6-PFOA	12.500000	0.00445	100.0		1.110e4	1.000	4.28	15	15			0.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
16	13C3-PFNA	12.500000	0.00569	100.0		1.283e4	1.000	4.61	16	16			0.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
17	13C4-PFOS	12.500000	0.0156	100.0		1.059e4	1.000	4.67	17	17			0.000	01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
18	Total PFBS	5.233006	0.009177					19						01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
19	Total PFHxS	6.5154125						19						01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
20	Total PFOA	4.3492881						20						01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
21	Total PFOS	6.128006	0.0168					21						01-Mar-17	20:43:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO



Dataset: Untitled

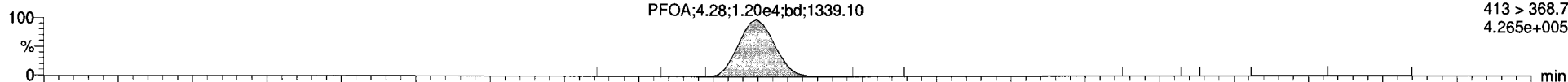
Last Altered: Thursday, March 02, 2017 09:19:39 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:22:00 Pacific Standard Time

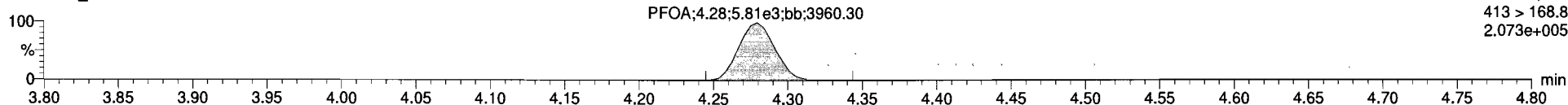
ID: ST170301G1-9 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_29, Date: 01-Mar-2017, Time: 20:48:27, Instrument: , Lab: , User:

Total PFOA

170301G1_29

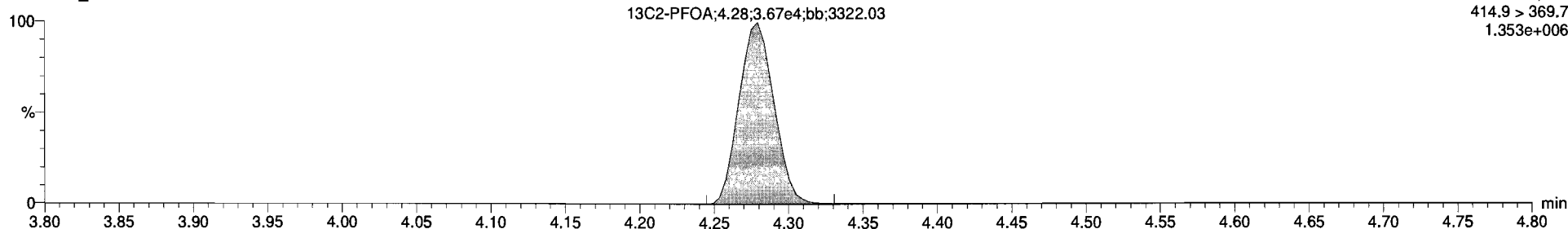


170301G1_29



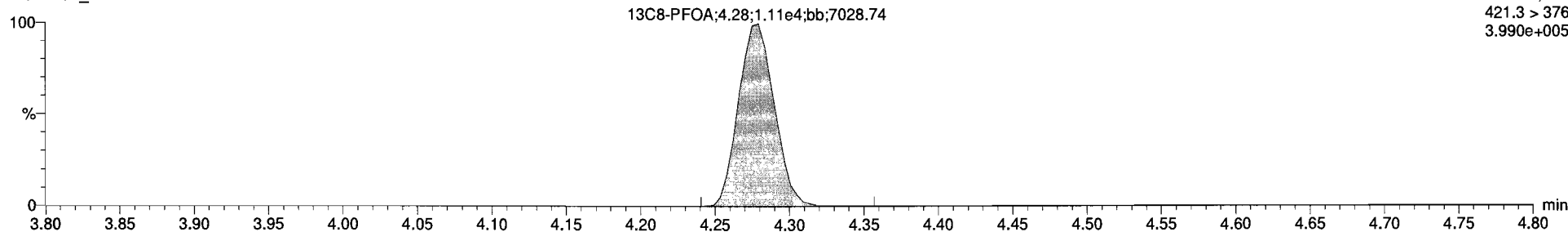
13C2-PFOA

170301G1_29



13C8-PFOA

170301G1_29

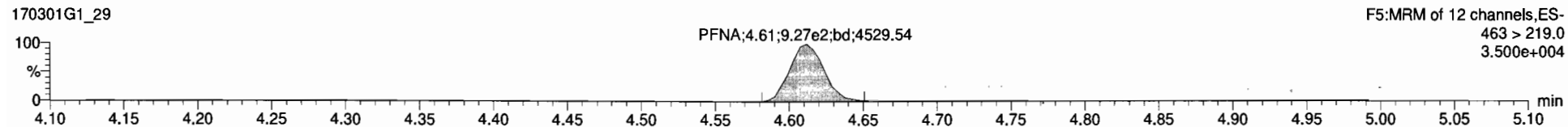
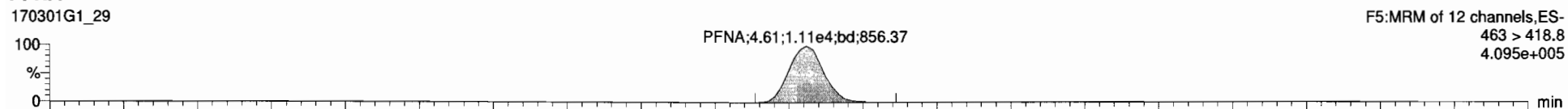


Dataset: Untitled

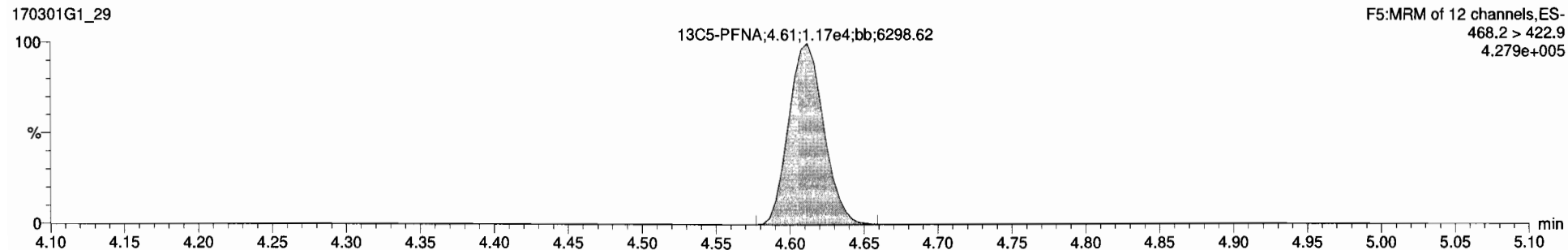
Last Altered: Thursday, March 02, 2017 09:19:39 Pacific Standard Time
Printed: Thursday, March 02, 2017 09:22:00 Pacific Standard Time

ID: ST170301G1-9 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_29, Date: 01-Mar-2017, Time: 20:48:27, Instrument: , Lab: , User:

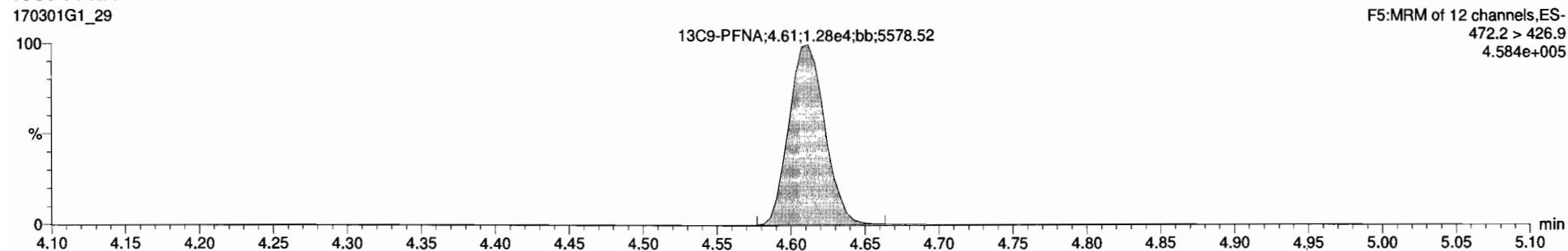
PFNA



13C5-PFNA



13C9-PFNA



Dataset: Untitled

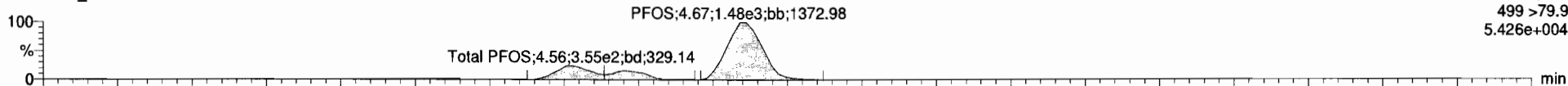
Last Altered: Thursday, March 02, 2017 09:19:39 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:22:00 Pacific Standard Time

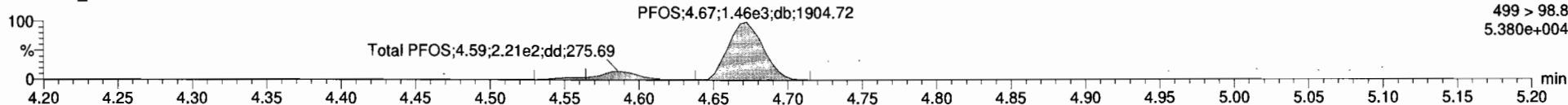
ID: ST170301G1-9 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_29, Date: 01-Mar-2017, Time: 20:48:27, Instrument: , Lab: , User:

Total PFOS

170301G1_29

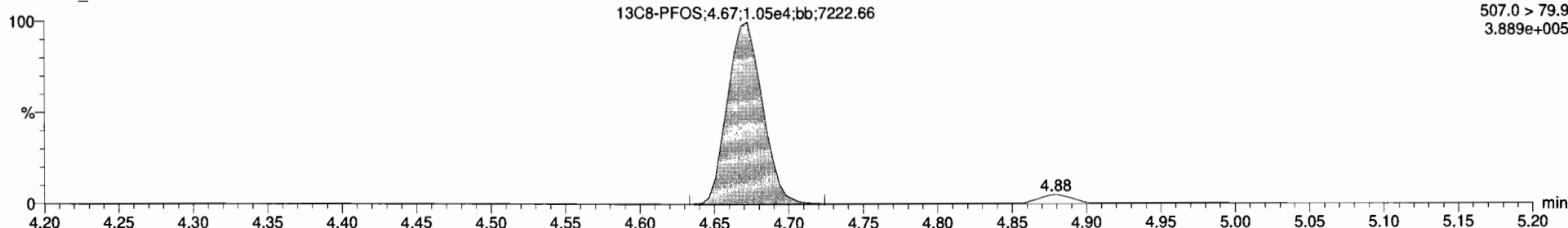


170301G1_29



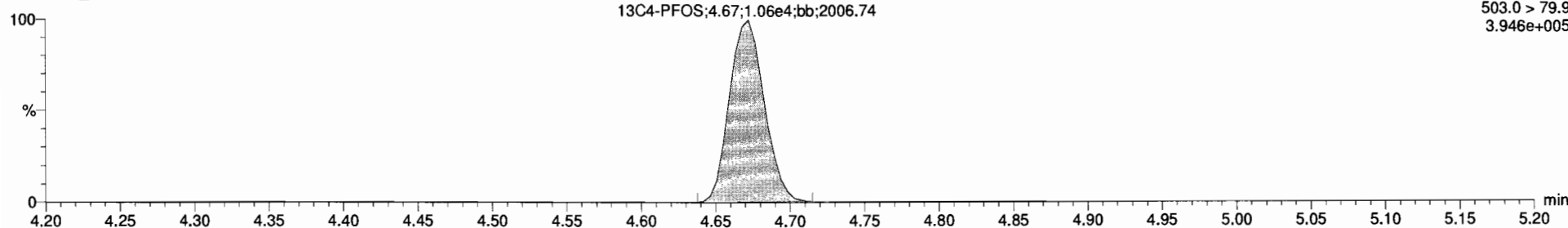
13C8-PFOS

170301G1_29



13C4-PFOS

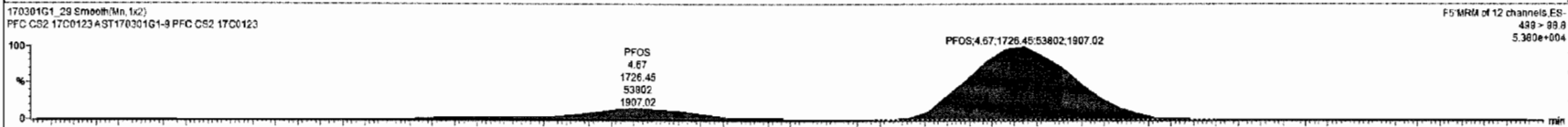
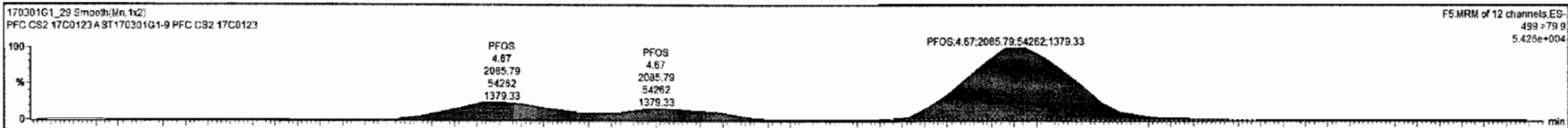
170301G1_29





170301G1_29 ST170301G1-9 PFC CS2 17C0123 PFC CS2 17C0123 A

Name	Conc.	DL	%Rec	EMPC	Abs.Reco	RRF	RT	#	SR	RA	Y/N	RRT	AcqDate	AcqTime	1 st Chr	Nose D	Sample Test	Factort	SWR	Cal Fts	MDL
1 PFBS	5.2336066	0.00809	104.7		6.775e2		2.99	1	7	0.365	YES	1.001	01-Mar-17	20:48:27	21.343	ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
2 PFhxA	4.7209711		94.6		1.462e1		3.88	2	8			1.001	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
3 PFhxC	5.8443476		113.0		9.909e1		3.99	3	9			1.000	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
4 PFDA	4.3492881		87.0		1.195e1		4.28	4	10			1.000	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
5 PFNA	5.4440777		108.9		1.108e1		4.61	5	11			1.000	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
6 PFOS	6.7718118	0.01180	98.4		2.086e3		4.67	6	12			0.999	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
7 13C3-PFBS	11.579420	0.000794	92.6		7.515e3	0.442	2.98	7	14			0.997	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
8 13C4-PFhxA	12.780749	0.00214	102.2		2.086e1	1.117	3.87	8	14			0.970	01-Mar-17	20:49:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
9 18O2-PFhxC	11.957173	0.0145	85.7		7.376e3	0.420	3.99	9	14			1.000	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
10 13C2-PFOA	14.859967	0.0115	110.0		3.671e1	2.762	4.28	10	15			1.000	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
11 13C5-PFNA	13.438076	0.00548	107.5		1.167e1	0.846	4.61	11	16			1.000	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
12 13C8-PFOS	13.158179	0.00453	105.3		1.650e1	0.941	4.67	12	17			1.000	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
13 13C5-PFhxA	12.500000	0.00850	100.0		3.070e1	1.000	3.36	13	13			0.999	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
14 13C3-PFhxC	12.500000	0.000165	100.0		1.836e1	1.000	3.99	14	14			0.999	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
15 13C8-PFOA	12.500000	0.00445	100.0		1.110e1	1.000	4.28	15	15			0.998	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
16 13C8-PFNA	12.500000	0.00560	100.0		1.283e1	1.000	4.61	16	16			0.999	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
17 13C4-PFOS	12.500000	0.0156	100.0		1.059e1	1.000	4.67	17	17			0.999	01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
18 Total PFBS	5.2336066	0.00917						18					01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
19 Total PFhxC	6.5154125							19					01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
20 Total PFOA	4.3492881							20					01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
21 Total PFOS	6.1208006	0.0168						21					01-Mar-17	20:48:27		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO



Ready 170301G1_29

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-48.qld

Last Altered: Thursday, March 02, 2017 09:28:46 Pacific Standard Time

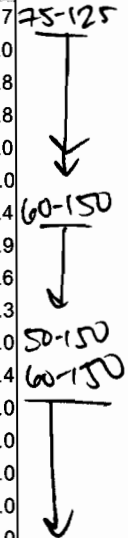
Printed: Thursday, March 02, 2017 09:29:50 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Name: 170301G1_48, Date: 02-Mar-2017, Time: 00:46:50, ID: ST170301G1-10 PFC CS2 17C0123, Description: PFC CS2 17C0123 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS	299 > 79.7	6.35e3	7.47e3		1.000	2.99	4.93	98.7
2	2 PFHpA	363 > 318.9	1.39e4	2.12e4		1.000	3.88	4.45	89.0
3	3 PFHxS	398.9 > 79.6	5.46e3	8.10e3		1.000	3.99	4.74	94.8
4	4 PFOA	413 > 368.7	1.34e4	3.70e4		1.000	4.28	4.84	96.8
5	5 PFNA	463 > 418.8	1.09e4	1.03e4		1.000	4.62	6.10	122.0
6	6 PFOS	499 > 79.9	2.04e3	8.54e3		1.000	4.68	5.75	115.0
7	7 13C3-PFBS	302.0 > 98.8	7.47e3	1.81e4	0.442	1.000	2.99	11.7	93.4
8	8 13C4-PFHpA	367.2 > 321.8	2.12e4	1.81e4	1.117	1.000	3.88	13.1	104.9
9	9 18O2-PFHxS	403 > 102.6	8.10e3	1.81e4	0.420	1.000	3.99	13.3	106.6
10	10 13C2-PFOA	414.9 > 369.7	3.70e4	1.00e4	2.782	1.000	4.28	16.5	132.3
11	11 13C5-PFNA	468.2 > 422.9	1.03e4	1.25e4	0.846	1.000	4.62	12.2	98.0
12	12 13C8-PFOS	507.0 > 79.9	8.54e3	9.92e3	0.941	1.000	4.68	11.4	91.4
13	13 13C5-PFHxA	318 > 272.9	3.21e4	3.21e4	1.000	1.000	3.37	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.81e4	1.81e4	1.000	1.000	3.99	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	1.25e4	1.25e4	1.000	1.000	4.61	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	9.92e3	9.92e3	1.000	1.000	4.67	12.5	100.0



ES 3/2/17

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:06:06 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:06:22 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170301G1_1	IPA	01-Mar-17	14:57:20
2	170301G1_2	ST170301G1-1 PFC CS-2 17C0119	01-Mar-17	15:09:39
3	170301G1_3	ST170301G1-2 PFC CS-1 17C0120	01-Mar-17	15:22:08
4	170301G1_4	ST170301G1-3 PFC CS0 17C0121	01-Mar-17	15:34:43
5	170301G1_5	ST170301G1-4 PFC CS1 17C0122	01-Mar-17	15:47:17
6	170301G1_6	ST170301G1-5 PFC CS2 17C0123	01-Mar-17	15:59:50
7	170301G1_7	ST170301G1-6 PFC CS3 17C0124	01-Mar-17	16:12:23
8	170301G1_8	ST170301G1-7 PFC CS4 17C0125	01-Mar-17	16:24:59
9	170301G1_9	ST170301G1-8 PFC CS5 17B2726	01-Mar-17	16:37:33
10	170301G1_10	IPA	01-Mar-17	16:50:06
11	170301G1_11	SS170301G1-1 PFC SSS 17C0127	01-Mar-17	17:02:38
12	170301G1_12	IPA	01-Mar-17	17:15:08
13	170301G1_13	B7B0118-BS1 OPR 0.125	01-Mar-17	17:27:46
14	170301G1_14	B7B0114-BS1 OPR 0.125	01-Mar-17	17:40:13
15	170301G1_15	IPA	01-Mar-17	17:52:54
16	170301G1_16	B7B0118-BLK1 Method Blank 0.125	01-Mar-17	18:05:24
17	170301G1_17	B7B0114-BLK1 Method Blank 0.125	01-Mar-17	18:17:56
18	170301G1_18	1700261-01 WI-CV-GW10D-0217 0.125	01-Mar-17	18:30:28
19	170301G1_19	1700261-02 WI-CV-EB01-022017 0.125	01-Mar-17	18:43:01
20	170301G1_20	1700261-03 WI-CV-GW065-0217 0.125	01-Mar-17	18:55:35
21	170301G1_21	1700261-04 WI-CV-GW065/5P-0217 0.125	01-Mar-17	19:08:08
22	170301G1_22	1700261-05 WI-CV-GW105-0217 0.125	01-Mar-17	19:20:37
23	170301G1_23	1700261-06 WI-CV-EB03-022217 0.125	01-Mar-17	19:33:12
24	170301G1_24	1700261-07 WI-CV-GW06M-0217 0.125	01-Mar-17	19:45:41
25	170301G1_25	B7B0118-MSD1 Matrix Spike Dup 0.125	01-Mar-17	19:58:14
26	170301G1_26	B7B0118-MS1 Matrix Spike 0.125	01-Mar-17	20:10:56
27	170301G1_27	1700261-08 WI-CV-EB02-022117 0.125	01-Mar-17	20:23:23
28	170301G1_28	IPA	01-Mar-17	20:35:54
29	170301G1_29	ST170301G1-9 PFC CS2 17C0123	01-Mar-17	20:48:27
30	170301G1_30	IPA	01-Mar-17	21:01:00
31	170301G1_31	B7B0129-BS1 OPR 0.125	01-Mar-17	21:13:33
32	170301G1_32	IPA	01-Mar-17	21:26:03

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:06:06 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:06:22 Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
33	170301G1_33	B7B0129-BLK1 Method Blank 0.125	01-Mar-17	21:38:38
34	170301G1_34	1700261-09 WI-CV-EB04-022317 0.125	01-Mar-17	21:51:09
35	170301G1_35	1700261-10 WI-CV-GW13M-0217 0.125	01-Mar-17	22:03:43
36	170301G1_36	1700245-01 Milk - 012617 0.125	01-Mar-17	22:16:13
37	170301G1_37	1700263-01 OW2E-MW09R-0217 0.12578	01-Mar-17	22:28:46
38	170301G1_38	1700263-02 OW2E-MW09RP-0217 0.12994	01-Mar-17	22:41:20
39	170301G1_39	1700263-03 OW2C-MW05-0217 0.13161	01-Mar-17	22:53:54
40	170301G1_40	1700263-04 OW2C-MW25-0217 0.12534	01-Mar-17	23:06:27
41	170301G1_41	1700263-05 OW2C-MW19-0217 0.12438	01-Mar-17	23:19:00
42	170301G1_42	B7B0129-MS1 Matrix Spike 0.12756	01-Mar-17	23:31:30
43	170301G1_43	B7B0129-MSD1 Matrix Spike Dup 0.12637	01-Mar-17	23:44:02
44	170301G1_44	1700263-06 OW2C-MW24-0217 0.1257	01-Mar-17	23:56:35
45	170301G1_45	1700263-07 OW2C-EB-0217 0.12647	02-Mar-17	00:09:09
46	170301G1_46	1700263-08 OW2C-FB-0217 0.13011	02-Mar-17	00:21:42
47	170301G1_47	IPA	02-Mar-17	00:34:15
48	170301G1_48	ST170301G1-10 PFC CS2 17C0123	02-Mar-17	00:46:50
49	170301G1_49	IPA	02-Mar-17	00:59:21

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:26:36 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:26:42 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

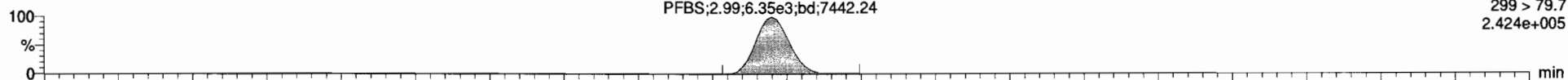
ID: ST170301G1-10 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_48, Date: 02-Mar-2017, Time: 00:46:50, Instrument: , Lab: , User:

PFBS

170301G1_48

PFBS;2.99;6.35e3;bd;7442.24

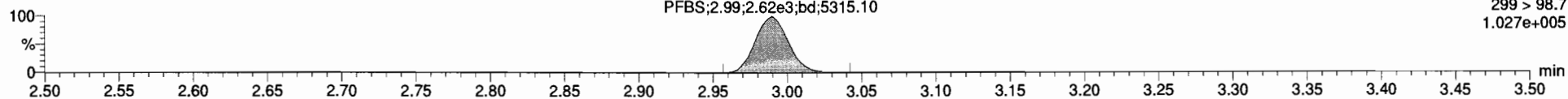
F2:MRM of 3 channels,ES-
299 > 79.7
2.424e+005



170301G1_48

PFBS;2.99;2.62e3;bd;5315.10

F2:MRM of 3 channels,ES-
299 > 98.7
1.027e+005

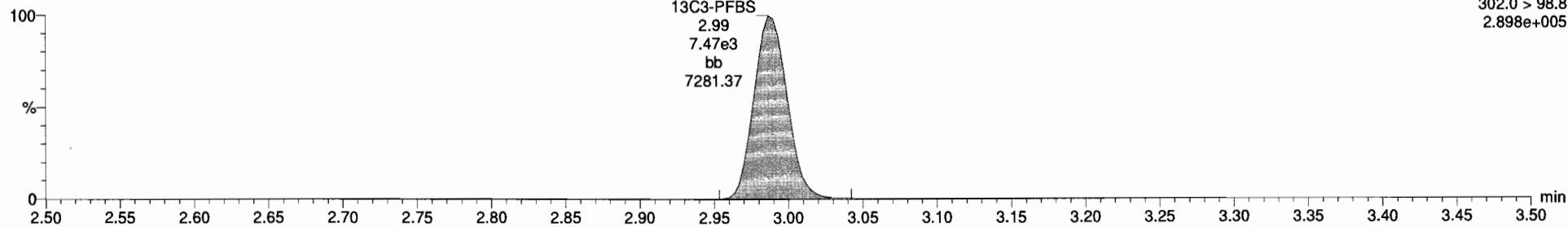


13C3-PFBS

170301G1_48

13C3-PFBS
2.99
7.47e3
bb
7281.37

F2:MRM of 3 channels,ES-
302.0 > 98.8
2.898e+005

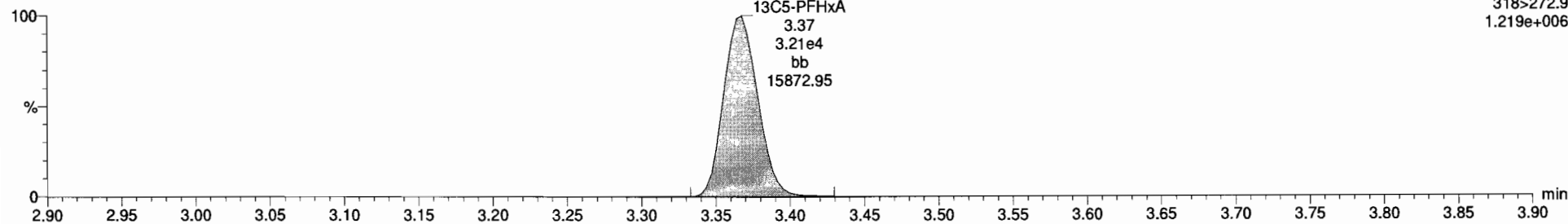


13C5-PFHxA

170301G1_48

13C5-PFHxA
3.37
3.21e4
bb
15872.95

F3:MRM of 1 channel,ES-
318>272.9
1.219e+006



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:26:36 Pacific Standard Time

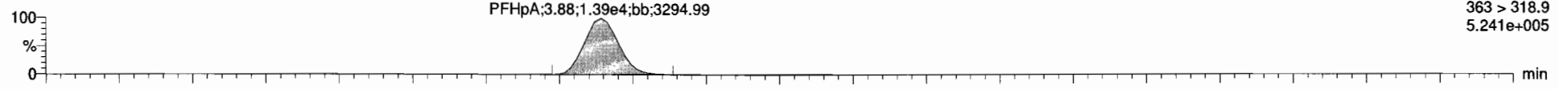
Printed: Thursday, March 02, 2017 09:26:42 Pacific Standard Time

ID: ST170301G1-10 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_48, Date: 02-Mar-2017, Time: 00:46:50, Instrument: , Lab: , User:

PFHpA

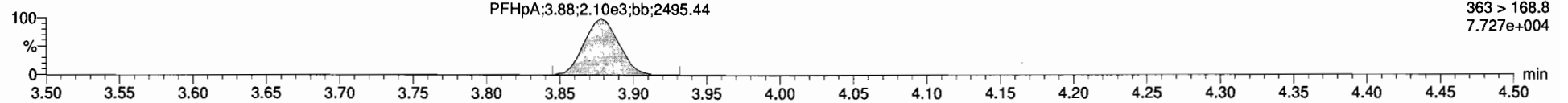
170301G1_48

F4:MRM of 7 channels,ES-
363 > 318.9
5.241e+005



170301G1_48

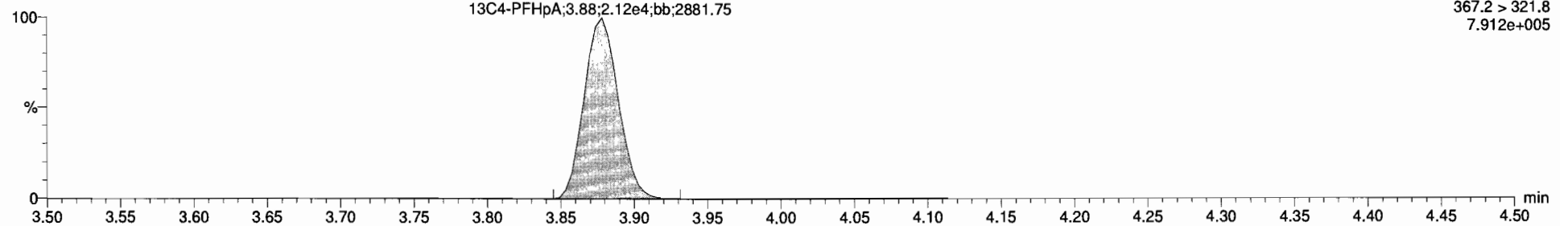
F4:MRM of 7 channels,ES-
363 > 168.8
7.727e+004



13C4-PFHpA

170301G1_48

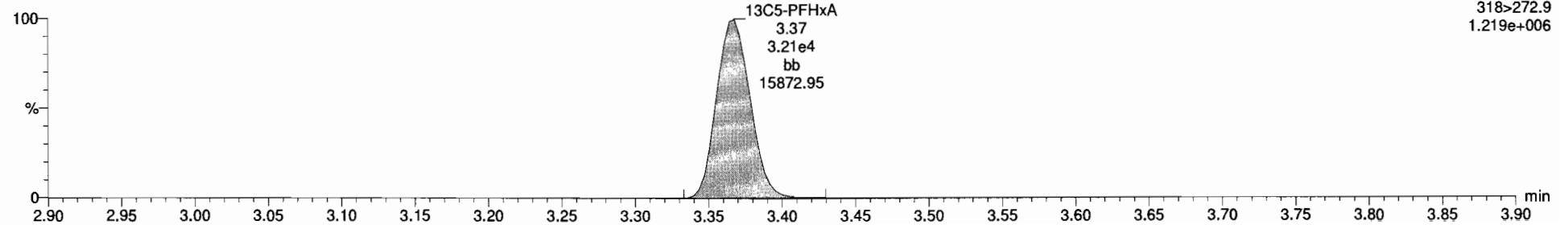
F4:MRM of 7 channels,ES-
367.2 > 321.8
7.912e+005



13C5-PFHxA

170301G1_48

F3:MRM of 1 channel,ES-
318>272.9
1.219e+006



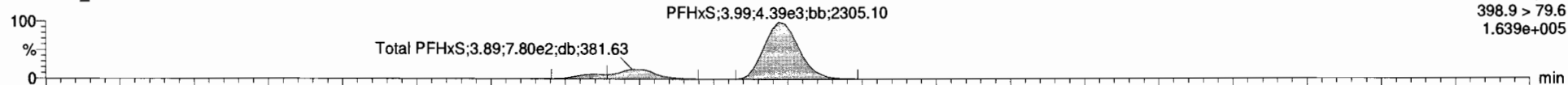
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:26:36 Pacific Standard Time
Printed: Thursday, March 02, 2017 09:26:42 Pacific Standard Time

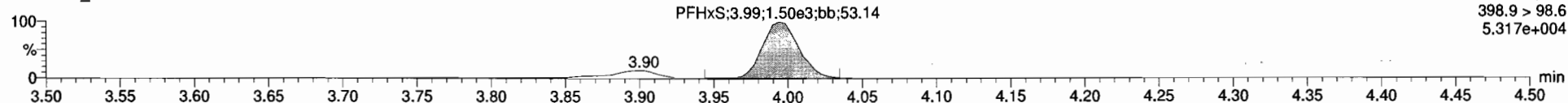
ID: ST170301G1-10 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_48, Date: 02-Mar-2017, Time: 00:46:50, Instrument: , Lab: , User:

Total PFHxS

170301G1_48

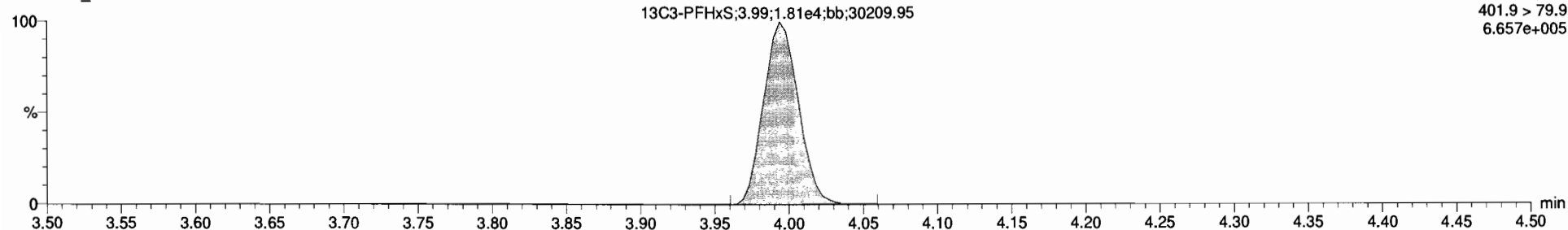


170301G1_48



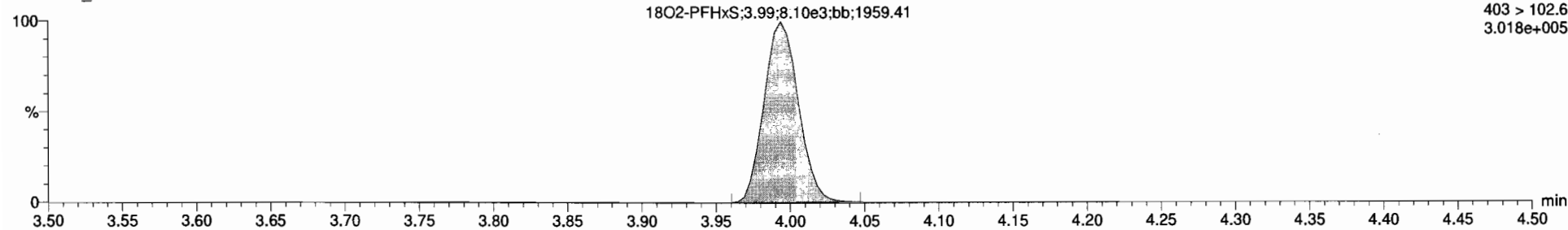
13C3-PFHxS

170301G1_48



18O2-PFHxS

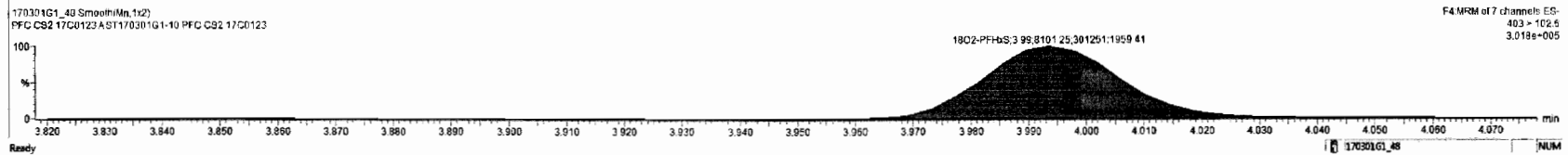
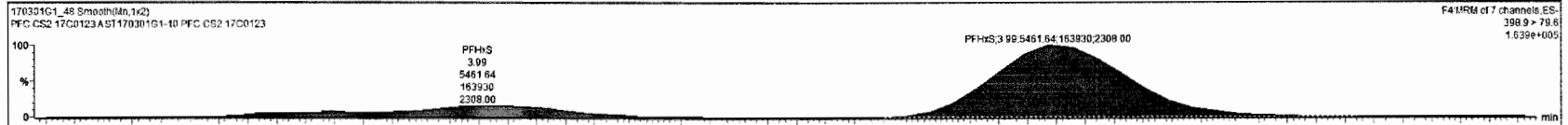
170301G1_48





170301G1_48 - ST170301G1-10 PFC CS2 17C0123 - PFC CS2 17C0123A

Name	Conc	DL	%Rec	EMPC	Abs Relsp	RF	RT	#	IS#	RA	YN	RRT	Acc Date	Acq Time	Ch Noise	D	Sample Test	Factor1	SMS	Col File	ADOL
1 PFBS	4.9339874	0.00569	99.7		6.347e3	2.99	1	7	0.413		YES	1.001	02-Mar-17	00:46:53	19.316	ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
2 PFHxA	4.4507429	0.0050	89.0		1.392e4	3.88	2	8				1.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
3 PFHxS	1.7422846	0.0050	34.8		5.465e3	3.99	3	9				1.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
4 PFOA	4.8413442	0.0050	96.8		1.336e4	4.28	4	10				1.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
5 PFNA	6.0904406	0.0050	122.0		1.094e4	4.82	5	11				1.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
6 PFOS	5.7478990	0.0337	115.0		2.045e3	4.88	6	12				1.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	YES
7 13C3-PFBS	11.670305	0.00422	93.4		7.488e3	0.442	2.99	7	14			0.887	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
8 13C4-PFHxA	13.114139	0.0115	104.9		2.118e4	1.117	3.88	8	14			0.871	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
9 18O2-PFHxS	13.328556	0.0172	106.6		8.101e3	0.420	3.99	9	14			1.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
10 13C2-PFOA	18.535749	0.00303	132.3		3.698e4	2.782	4.28	10	15			1.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
11 13C5-PFNA	12.244847	0.000497	98.0		1.032e4	0.846	4.82	11	16			1.001	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
12 13C8-PFOS	11.427155	0.00155	91.4		8.541e3	0.841	4.88	12	17			1.001	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
13 13C5-PFHxA	12.500000	0.00197	100.0		3.213e4	1.000	3.37	13	13			0.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
14 13C3-PFHxS	12.500000	0.00103	100.0		1.809e4	1.000	3.99	14	14			0.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
15 13C8-PFOA	12.500000	0.00320	100.0		1.005e4	1.000	4.28	15	15			0.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
16 13C5-PFNA	12.500000	0.00996	100.0		1.245e4	1.000	4.81	16	16			0.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
17 13C4-PFOS	12.500000	0.00121	100.0		9.925e3	1.000	4.87	17	17			0.000	02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
18 Total PFBS	4.9902559	0.00563						18					02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
19 Total PFHxS	5.5847731							19					02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
20 Total PFOA	4.8413442							20					02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO
21 Total PFOS	7.3384874	0.0337						21					02-Mar-17	00:46:53		ST170301G	PFC CS2 17C01	1.0	1.00	C18_V	NO



Dataset: Untitled

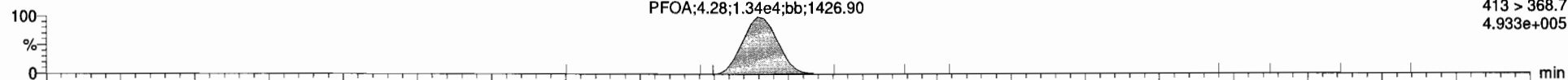
Last Altered: Thursday, March 02, 2017 09:26:36 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:26:42 Pacific Standard Time

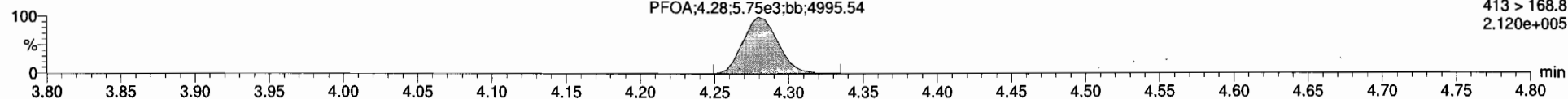
ID: ST170301G1-10 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_48, Date: 02-Mar-2017, Time: 00:46:50, Instrument: , Lab: , User:

Total PFOA

170301G1_48

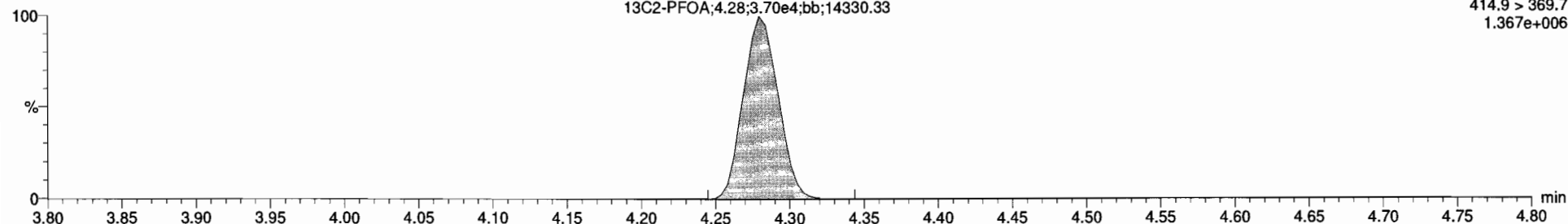


170301G1_48



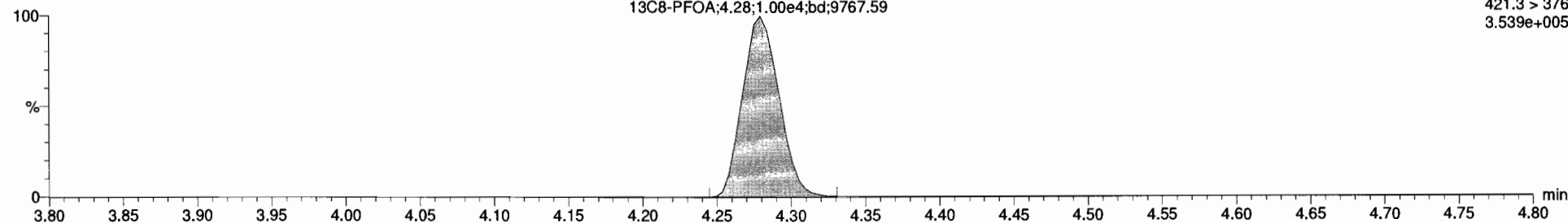
13C2-PFOA

170301G1_48



13C8-PFOA

170301G1_48



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:26:36 Pacific Standard Time
Printed: Thursday, March 02, 2017 09:26:42 Pacific Standard Time

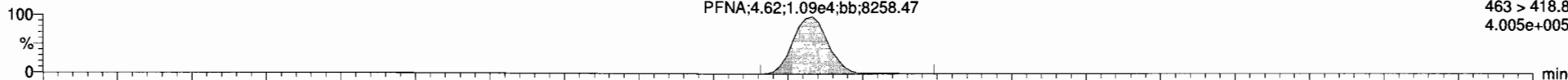
ID: ST170301G1-10 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_48, Date: 02-Mar-2017, Time: 00:46:50, Instrument: , Lab: , User:

PFNA

170301G1_48

PFNA;4.62;1.09e4;bb;8258.47

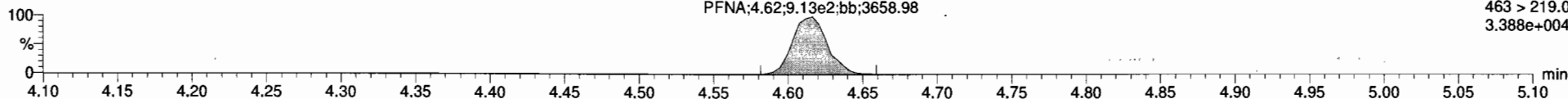
F5:MRM of 12 channels,ES-
463 > 418.8
4.005e+005



170301G1_48

PFNA;4.62;9.13e2;bb;3658.98

F5:MRM of 12 channels,ES-
463 > 219.0
3.388e+004

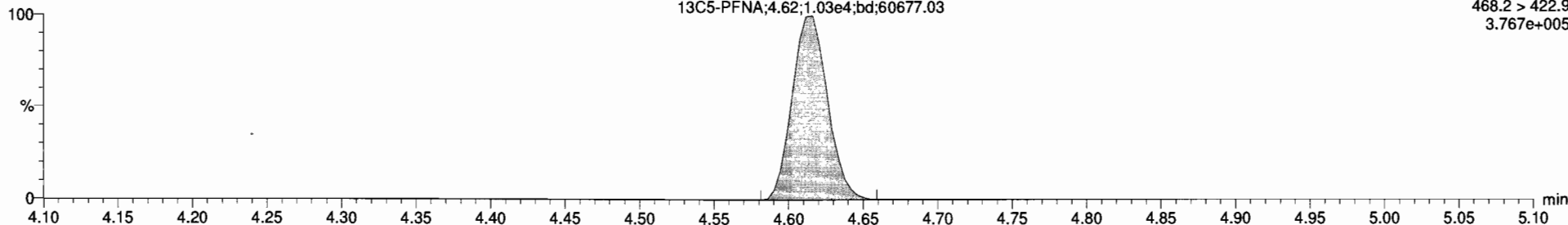


13C5-PFNA

170301G1_48

13C5-PFNA;4.62;1.03e4;bd;60677.03

F5:MRM of 12 channels,ES-
468.2 > 422.9
3.767e+005

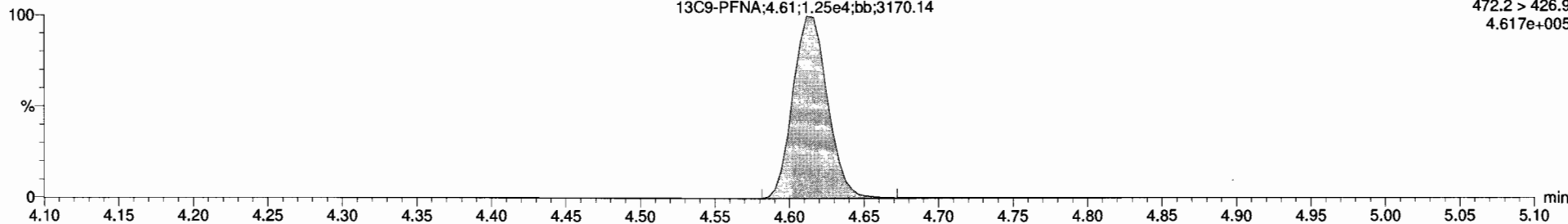


13C9-PFNA

170301G1_48

13C9-PFNA;4.61;1.25e4;bb;3170.14

F5:MRM of 12 channels,ES-
472.2 > 426.9
4.617e+005



Dataset: Untitled

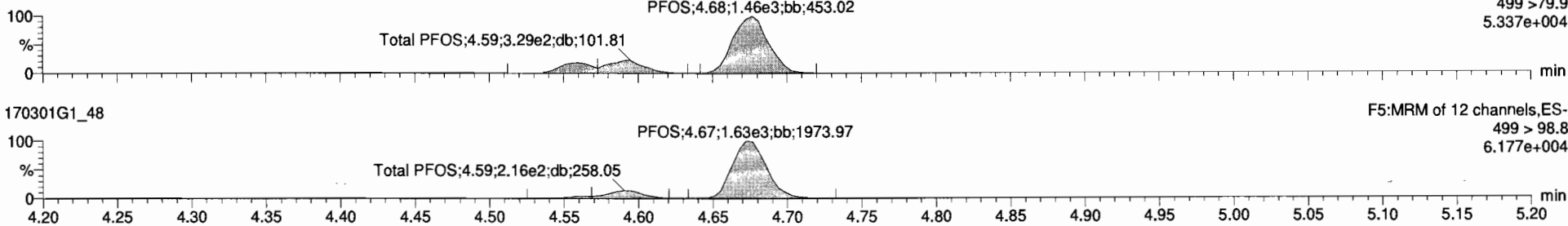
Last Altered: Thursday, March 02, 2017 09:26:36 Pacific Standard Time
Printed: Thursday, March 02, 2017 09:26:42 Pacific Standard Time

ID: ST170301G1-10 PFC CS2 17C0123, Description: PFC CS2 17C0123 A, Name: 170301G1_48, Date: 02-Mar-2017, Time: 00:46:50, Instrument: , Lab: , User:

Total PFOS

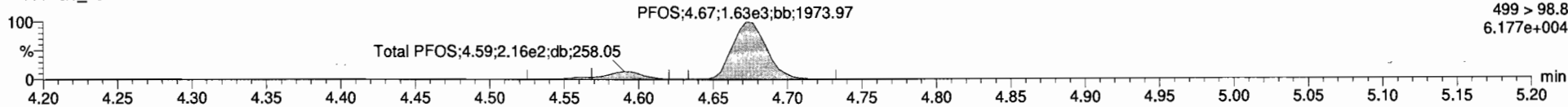
170301G1_48

F5:MRM of 12 channels,ES-
499 > 79.9
5.337e+004



170301G1_48

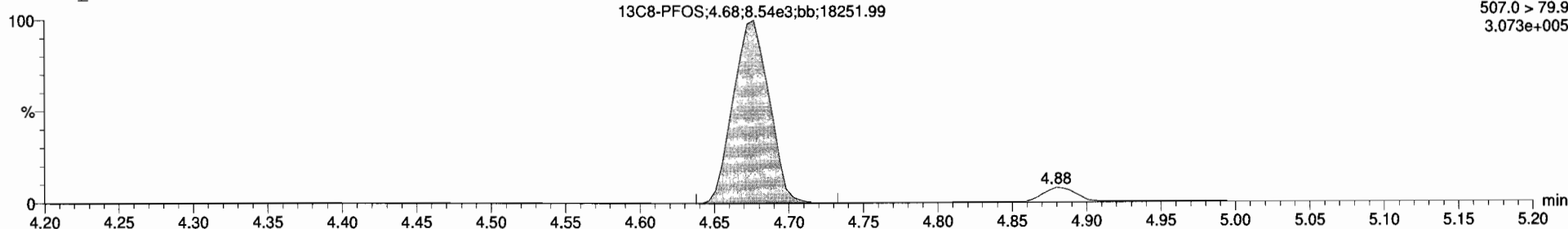
F5:MRM of 12 channels,ES-
499 > 98.8
6.177e+004



13C8-PFOS

170301G1_48

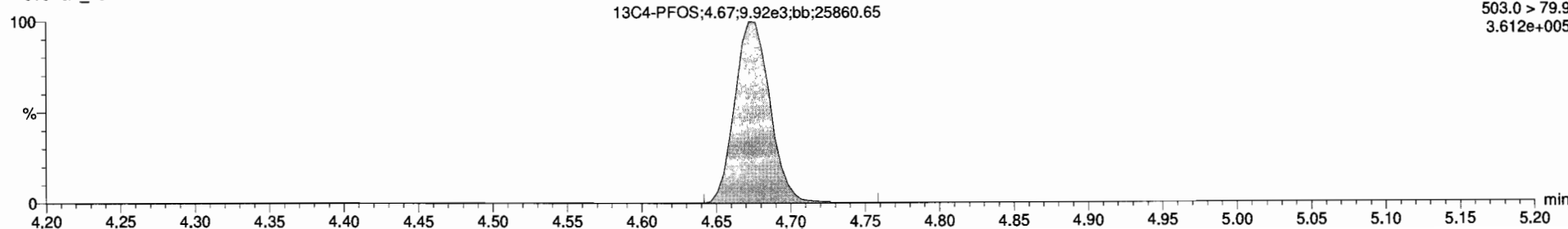
F5:MRM of 12 channels,ES-
507.0 > 79.9
3.073e+005



13C4-PFOS

170301G1_48

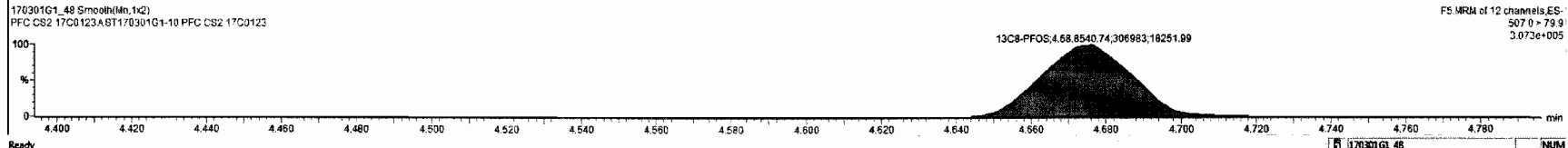
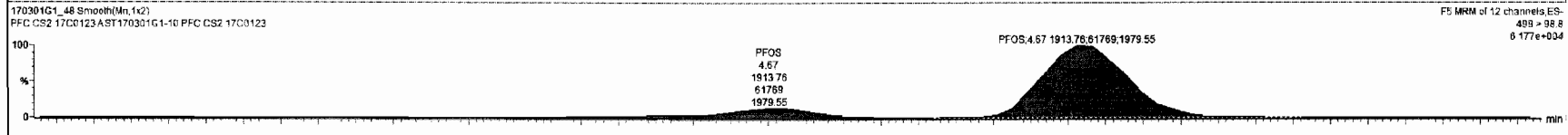
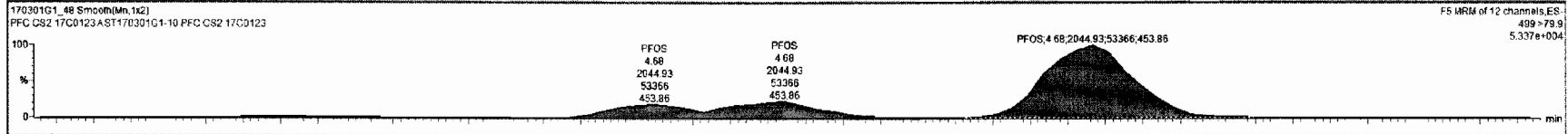
F5:MRM of 12 channels,ES-
503.0 > 79.9
3.612e+005





170301G1_48 - ST170301G1-10 PFC CS2 17C0123 - PFC CS2 17C0123A

Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	ISF	RA	YN	RRT	AcqDate	AcqTime	1 st Chr/Noise	ID	Sample Text	Factor1	SW	Cal File	>MOD
PFBS	4.9338874	0.00569	98.7		6.347e3	2.99	7	7	0.413	YES	1.001	02-Mar-17	00:46:50	19.316	ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
PFHpA	4.4507420	0.0000	80.0		1.392e4	3.68	2	8			1.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
PFHxS	3.7932398	0.0000	75.9		4.385e3	3.99	3	9			1.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	YES	
PFOA	4.8413442	0.0000	98.8		1.336e4	4.28	4	10			1.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	YES	
PFNA	8.0984408	0.0000	122.0		1.094e4	4.62	5	11			1.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	YES	
PFOS	4.7418095	0.0053	115.0		3.145e3	4.68	6	12			1.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	YES	
13C3-PFBS	11.670305	0.00422	93.4		7.469e3	0.442	2.99	7	14		0.887	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C4-PFHpA	13.114139	0.0115	104.9		2.119e4	1.117	3.88	8	14		0.971	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
18O2-PFHxS	13.328556	0.0172	106.6		8.101e3	0.420	3.99	9	14		1.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C2-PFOA	16.535749	0.00303	132.3		3.696e4	2.782	4.28	10	15		1.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C5-PFNA	12.244847	0.000497	98.0		1.032e4	0.846	4.62	11	16		1.001	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C8-PFOS	11.427155	0.00155	91.4		8.541e3	0.941	4.68	12	17		1.001	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C5-PFHpA	12.500000	0.00197	100.0		3.213e4	1.000	3.37	13	13		0.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C3-PFHxS	12.500000	0.00103	100.0		1.809e4	1.000	3.99	14	14		0.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C8-PFOA	12.500000	0.00320	100.0		1.005e4	1.000	4.28	15	15		0.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C8-PFNA	12.500000	0.00886	100.0		1.245e4	1.000	4.61	16	16		0.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
13C4-PFOS	12.500000	0.00121	100.0		9.825e3	1.000	4.67	17	17		0.000	02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
Total PFBS	4.9502559	0.00563						18				02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
Total PFHpA	4.5557482							19				02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
Total PFOA	4.8413442							20				02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	
Total PFOS	7.3394874	0.0337						21				02-Mar-17	00:46:50		ST170301G	PFC CS2 17C01...	1.0	1.00	C18_V...	NO	



INITIAL CALIBRATION

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Compound name: PFBS

Correlation coefficient: $r = 0.999661$, $r^2 = 0.999322$

Calibration curve: $2.15479 * x + -0.00874732$

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

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

es 3/2/17

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170301G1_2	0.250	2.98	3.28e2	7.51e3	0.258	3.2	2.19
2	2 170301G1_3	0.500	2.97	7.28e2	8.00e3	0.532	6.4	2.28
3	3 170301G1_4	1.00	2.97	1.23e3	8.02e3	0.891	-10.9	1.91
4	4 170301G1_5	2.00	2.97	2.93e3	8.74e3	1.95	-2.5	2.10
5	5 170301G1_6	5.00	2.98	6.07e3	7.36e3	4.78	-4.3	2.06
6	6 170301G1_7	10.0	2.98	1.44e4	7.66e3	10.9	9.0	2.35
7	7 170301G1_8	50.0	2.98	5.72e4	6.68e3	49.6	-0.7	2.14
8	8 170301G1_9	100	2.98	9.97e4	5.79e3	99.8	-0.2	2.15

Compound name: PFHpA

Correlation coefficient: $r = 0.999574$, $r^2 = 0.999147$

Calibration curve: $1.83353 * x + 0.0475478$

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

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

*Qm
3/2/17*

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170301G1_2	0.250	3.86	7.85e2	1.81e4	0.269	7.8	2.17
2	2 170301G1_3	0.500	3.86	1.47e3	1.95e4	0.488	-2.4	1.89
3	3 170301G1_4	1.00	3.86	3.16e3	1.98e4	1.06	6.1	1.99
4	4 170301G1_5	2.00	3.86	6.18e3	2.28e4	1.82	-8.8	1.70
5	5 170301G1_6	5.00	3.87	1.34e4	1.89e4	4.79	-4.2	1.77
6	6 170301G1_7	10.0	3.87	2.91e4	1.99e4	9.91	-0.9	1.82
7	7 170301G1_8	50.0	3.87	1.28e5	1.67e4	52.0	4.0	1.91
8	8 170301G1_9	100	3.87	2.16e5	1.49e4	98.4	-1.6	1.80

Vista Analytical Laboratory Q2

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Compound name: PFHxS

Coefficient of Determination: $R^2 = 0.999683$

Calibration curve: $0.0013481 * x^2 + 1.73839 * x + 0.152899$

Response type: Internal Std (Ref 9), 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 170301G1_2	0.250	3.98	3.81e2	6.74e3	0.318	27.3	2.82
2	2 170301G1_3	0.500	3.98	5.38e2	7.28e3	0.443	-11.4	1.85
3	3 170301G1_4	1.00	3.98	1.01e3	7.61e3	0.870	-13.0	1.67
4	4 170301G1_5	2.00	3.98	2.16e3	7.82e3	1.89	-5.4	1.72
5	5 170301G1_6	5.00	3.98	4.81e3	6.79e3	4.98	-0.4	1.77
6	6 170301G1_7	10.0	3.98	1.12e4	7.73e3	10.3	3.0	1.82
7	7 170301G1_8	50.0	3.98	4.80e4	6.65e3	49.9	-0.1	1.81
8	8 170301G1_9	100	3.98	8.93e4	5.95e3	100	0.0	1.87

Compound name: PFOA

Correlation coefficient: $r = 0.999586$, $r^2 = 0.999171$

Calibration curve: $0.91162 * x + 0.105798$

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 170301G1_2	0.250	4.27	8.80e2	3.24e4	0.257	2.7	1.36
2	2 170301G1_3	0.500	4.27	1.60e3	3.43e4	0.526	5.3	1.17
3	3 170301G1_4	1.00	4.27	2.80e3	3.31e4	1.04	4.5	1.06
4	4 170301G1_5	2.00	4.27	5.14e3	3.56e4	1.86	-6.8	0.903
5	5 170301G1_6	5.00	4.27	1.16e4	3.37e4	4.61	-7.8	0.862
6	6 170301G1_7	10.0	4.27	2.61e4	3.55e4	9.97	-0.3	0.920
7	7 170301G1_8	50.0	4.27	1.21e5	3.20e4	51.9	3.8	0.948
8	8 170301G1_9	100	4.27	2.10e5	2.92e4	98.6	-1.4	0.900

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Compound name: PFNA

Correlation coefficient: $r = 0.999823$, $r^2 = 0.999645$

Calibration curve: $2.14195 * x + 0.180366$

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 170301G1_2	0.250	4.60	5.85e2	1.09e4	0.230	-7.9	2.69
2	2 170301G1_3	0.500	4.60	1.19e3	1.18e4	0.505	1.0	2.52
3	3 170301G1_4	1.00	4.60	2.16e3	1.11e4	1.05	4.5	2.42
4	4 170301G1_5	2.00	4.60	4.21e3	1.21e4	1.95	-2.3	2.18
5	5 170301G1_6	5.00	4.60	9.48e3	1.10e4	4.92	-1.5	2.14
6	6 170301G1_7	10.0	4.61	1.93e4	1.05e4	10.7	6.9	2.31
7	7 170301G1_8	50.0	4.61	1.05e5	1.23e4	50.0	-0.1	2.14
8	8 170301G1_9	100	4.60	1.89e5	1.11e4	99.4	-0.6	2.13

Compound name: PFOS

Correlation coefficient: $r = 0.998821$, $r^2 = 0.997644$

Calibration curve: $0.521667 * x + -0.00559175$

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

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

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 170301G1_2	0.250	4.67	1.09e2	8.67e3	0.311	24.5	0.627
2	2 170301G1_3	0.500	4.66	1.57e2	1.02e4	0.379	-24.2	0.384
3	3 170301G1_4	1.00	4.66	3.48e2	1.01e4	0.833	-16.7	0.429
4	4 170301G1_5	2.00	4.66	7.67e2	9.01e3	2.05	2.5	0.532
5	5 170301G1_6	5.00	4.67	1.73e3	8.84e3	4.70	-6.0	0.489
6	6 170301G1_7	10.0	4.66	3.59e3	7.38e3	11.7	16.6	0.608
7	7 170301G1_8	50.0	4.67	2.23e4	1.07e4	50.2	0.3	0.523
8	8 170301G1_9	100	4.67	4.10e4	9.97e3	98.7	-1.3	0.515

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Compound name: 13C3-PFBS

Response Factor: 0.442319

RRF SD: 0.0236024, Relative SD: 5.33606

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 170301G1_2	12.5	2.97	7.51e3	1.69e4	12.6	0.4	0.444
2	2 170301G1_3	12.5	2.97	8.00e3	1.78e4	12.7	1.6	0.449
3	3 170301G1_4	12.5	2.97	8.02e3	1.82e4	12.4	-0.6	0.440
4	4 170301G1_5	12.5	2.97	8.74e3	1.94e4	12.7	1.7	0.450
5	5 170301G1_6	12.5	2.97	7.36e3	1.59e4	13.1	4.6	0.463
6	6 170301G1_7	12.5	2.97	7.66e3	1.61e4	13.4	7.5	0.475
7	7 170301G1_8	12.5	2.97	6.68e3	1.65e4	11.4	-8.5	0.405
8	8 170301G1_9	12.5	2.97	5.79e3	1.40e4	11.7	-6.6	0.413

Compound name: 13C4-PFHpA

Response Factor: 1.11689

RRF SD: 0.0752551, Relative SD: 6.7379

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 170301G1_2	12.5	3.86	1.81e4	1.69e4	12.0	-4.0	1.07
2	2 170301G1_3	12.5	3.86	1.95e4	1.78e4	12.3	-1.8	1.10
3	3 170301G1_4	12.5	3.86	1.98e4	1.82e4	12.2	-2.6	1.09
4	4 170301G1_5	12.5	3.86	2.28e4	1.94e4	13.1	4.9	1.17
5	5 170301G1_6	12.5	3.87	1.89e4	1.59e4	13.3	6.7	1.19
6	6 170301G1_7	12.5	3.87	1.99e4	1.61e4	13.8	10.8	1.24
7	7 170301G1_8	12.5	3.87	1.67e4	1.65e4	11.3	-9.3	1.01
8	8 170301G1_9	12.5	3.87	1.49e4	1.40e4	11.9	-4.6	1.07

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Compound name: 18O2-PFHxS

Response Factor: 0.420072

RRF SD: 0.026108, Relative SD: 6.21512

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 170301G1_2	12.5	3.98	6.74e3	1.69e4	11.9	-5.0	0.399
2	2 170301G1_3	12.5	3.98	7.28e3	1.78e4	12.2	-2.6	0.409
3	3 170301G1_4	12.5	3.98	7.61e3	1.82e4	12.4	-0.7	0.417
4	4 170301G1_5	12.5	3.98	7.82e3	1.94e4	12.0	-4.2	0.402
5	5 170301G1_6	12.5	3.98	6.79e3	1.59e4	12.7	1.7	0.427
6	6 170301G1_7	12.5	3.98	7.73e3	1.61e4	14.3	14.1	0.479
7	7 170301G1_8	12.5	3.98	6.65e3	1.65e4	12.0	-4.2	0.403
8	8 170301G1_9	12.5	3.98	5.95e3	1.40e4	12.6	1.0	0.424

Compound name: 13C2-PFOA

Response Factor: 2.78174

RRF SD: 0.14342, Relative SD: 5.15577

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 170301G1_2	12.5	4.27	3.24e4	1.11e4	13.2	5.3	2.93
2	2 170301G1_3	12.5	4.27	3.43e4	1.25e4	12.3	-1.6	2.74
3	3 170301G1_4	12.5	4.27	3.31e4	1.29e4	11.5	-7.7	2.57
4	4 170301G1_5	12.5	4.27	3.56e4	1.38e4	11.6	-7.6	2.57
5	5 170301G1_6	12.5	4.27	3.37e4	1.16e4	13.1	4.6	2.91
6	6 170301G1_7	12.5	4.27	3.55e4	1.26e4	12.7	1.7	2.83
7	7 170301G1_8	12.5	4.27	3.20e4	1.13e4	12.7	1.9	2.83
8	8 170301G1_9	12.5	4.27	2.92e4	1.02e4	12.9	3.3	2.87

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Compound name: 13C5-PFNA

Response Factor: 0.846329

RRF SD: 0.0461649, Relative SD: 5.45473

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 170301G1_2	12.5	4.60	1.09e4	1.33e4	12.0	-3.8	0.814
2	2 170301G1_3	12.5	4.60	1.18e4	1.46e4	12.0	-4.0	0.812
3	3 170301G1_4	12.5	4.60	1.11e4	1.40e4	11.7	-6.0	0.795
4	4 170301G1_5	12.5	4.60	1.21e4	1.51e4	11.8	-5.7	0.798
5	5 170301G1_6	12.5	4.60	1.10e4	1.26e4	12.9	3.4	0.876
6	6 170301G1_7	12.5	4.60	1.05e4	1.20e4	12.8	2.7	0.869
7	7 170301G1_8	12.5	4.60	1.23e4	1.36e4	13.3	6.5	0.902
8	8 170301G1_9	12.5	4.60	1.11e4	1.22e4	13.4	6.9	0.904

Compound name: 13C8-PFOS

Response Factor: 0.941363

RRF SD: 0.084731, Relative SD: 9.00088

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 170301G1_2	12.5	4.66	8.67e3	9.62e3	12.0	-4.2	0.901
2	2 170301G1_3	12.5	4.66	1.02e4	1.15e4	11.8	-5.2	0.892
3	3 170301G1_4	12.5	4.66	1.01e4	1.07e4	12.5	0.4	0.945
4	4 170301G1_5	12.5	4.66	9.01e3	1.11e4	10.8	-13.7	0.812
5	5 170301G1_6	12.5	4.66	8.84e3	9.82e3	12.0	-4.3	0.901
6	6 170301G1_7	12.5	4.66	7.38e3	7.48e3	13.1	4.7	0.986
7	7 170301G1_8	12.5	4.66	1.07e4	1.06e4	13.3	6.8	1.01
8	8 170301G1_9	12.5	4.66	9.97e3	9.15e3	14.5	15.7	1.09

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 1.18688e-016, Relative SD: 1.18688e-014

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 170301G1_2	12.5	3.35	2.76e4	2.76e4	12.5	0.0	1.00
2	2 170301G1_3	12.5	3.35	3.04e4	3.04e4	12.5	0.0	1.00
3	3 170301G1_4	12.5	3.35	3.12e4	3.12e4	12.5	0.0	1.00
4	4 170301G1_5	12.5	3.35	3.16e4	3.16e4	12.5	0.0	1.00
5	5 170301G1_6	12.5	3.35	2.80e4	2.80e4	12.5	0.0	1.00
6	6 170301G1_7	12.5	3.35	3.05e4	3.05e4	12.5	0.0	1.00
7	7 170301G1_8	12.5	3.35	2.64e4	2.64e4	12.5	0.0	1.00
8	8 170301G1_9	12.5	3.35	2.31e4	2.31e4	12.5	0.0	1.00

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 5.93439e-017, Relative SD: 5.93439e-015

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 170301G1_2	12.5	3.98	1.69e4	1.69e4	12.5	0.0	1.00
2	2 170301G1_3	12.5	3.98	1.78e4	1.78e4	12.5	0.0	1.00
3	3 170301G1_4	12.5	3.98	1.82e4	1.82e4	12.5	0.0	1.00
4	4 170301G1_5	12.5	3.98	1.94e4	1.94e4	12.5	0.0	1.00
5	5 170301G1_6	12.5	3.98	1.59e4	1.59e4	12.5	-0.0	1.00
6	6 170301G1_7	12.5	3.98	1.61e4	1.61e4	12.5	0.0	1.00
7	7 170301G1_8	12.5	3.98	1.65e4	1.65e4	12.5	0.0	1.00
8	8 170301G1_9	12.5	3.98	1.40e4	1.40e4	12.5	-0.0	1.00

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 8.3925e-017, Relative SD: 8.3925e-015

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 170301G1_2	12.5	4.27	1.11e4	1.11e4	12.5	0.0	1.00
2	2 170301G1_3	12.5	4.27	1.25e4	1.25e4	12.5	0.0	1.00
3	3 170301G1_4	12.5	4.27	1.29e4	1.29e4	12.5	0.0	1.00
4	4 170301G1_5	12.5	4.27	1.38e4	1.38e4	12.5	0.0	1.00
5	5 170301G1_6	12.5	4.27	1.16e4	1.16e4	12.5	0.0	1.00
6	6 170301G1_7	12.5	4.27	1.26e4	1.26e4	12.5	0.0	1.00
7	7 170301G1_8	12.5	4.27	1.13e4	1.13e4	12.5	0.0	1.00
8	8 170301G1_9	12.5	4.27	1.02e4	1.02e4	12.5	0.0	1.00

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 1.02787e-016, Relative SD: 1.02787e-014

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 170301G1_2	12.5	4.60	1.33e4	1.33e4	12.5	0.0	1.00
2	2 170301G1_3	12.5	4.60	1.46e4	1.46e4	12.5	0.0	1.00
3	3 170301G1_4	12.5	4.60	1.40e4	1.40e4	12.5	0.0	1.00
4	4 170301G1_5	12.5	4.60	1.51e4	1.51e4	12.5	-0.0	1.00
5	5 170301G1_6	12.5	4.60	1.26e4	1.26e4	12.5	0.0	1.00
6	6 170301G1_7	12.5	4.60	1.20e4	1.20e4	12.5	0.0	1.00
7	7 170301G1_8	12.5	4.60	1.36e4	1.36e4	12.5	-0.0	1.00
8	8 170301G1_9	12.5	4.60	1.22e4	1.22e4	12.5	0.0	1.00

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:22:21 Pacific Standard Time

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 170301G1_2	12.5	4.66	9.62e3	9.62e3	12.5	0.0	1.00
2	2 170301G1_3	12.5	4.66	1.15e4	1.15e4	12.5	0.0	1.00
3	3 170301G1_4	12.5	4.66	1.07e4	1.07e4	12.5	0.0	1.00
4	4 170301G1_5	12.5	4.66	1.11e4	1.11e4	12.5	0.0	1.00
5	5 170301G1_6	12.5	4.67	9.82e3	9.82e3	12.5	0.0	1.00
6	6 170301G1_7	12.5	4.66	7.48e3	7.48e3	12.5	0.0	1.00
7	7 170301G1_8	12.5	4.67	1.06e4	1.06e4	12.5	0.0	1.00
8	8 170301G1_9	12.5	4.66	9.15e3	9.15e3	12.5	0.0	1.00

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:06:06 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:06:22 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
1	170301G1_1	IPA	01-Mar-17	14:57:20
2	170301G1_2	ST170301G1-1 PFC CS-2 17C0119	01-Mar-17	15:09:39
3	170301G1_3	ST170301G1-2 PFC CS-1 17C0120	01-Mar-17	15:22:08
4	170301G1_4	ST170301G1-3 PFC CS0 17C0121	01-Mar-17	15:34:43
5	170301G1_5	ST170301G1-4 PFC CS1 17C0122	01-Mar-17	15:47:17
6	170301G1_6	ST170301G1-5 PFC CS2 17C0123	01-Mar-17	15:59:50
7	170301G1_7	ST170301G1-6 PFC CS3 17C0124	01-Mar-17	16:12:23
8	170301G1_8	ST170301G1-7 PFC CS4 17C0125	01-Mar-17	16:24:59
9	170301G1_9	ST170301G1-8 PFC CS5 17B2726	01-Mar-17	16:37:33
10	170301G1_10	IPA	01-Mar-17	16:50:06
11	170301G1_11	SS170301G1-1 PFC SSS 17C0127	01-Mar-17	17:02:38
12	170301G1_12	IPA	01-Mar-17	17:15:08
13	170301G1_13	B7B0118-BS1 OPR 0.125	01-Mar-17	17:27:46
14	170301G1_14	B7B0114-BS1 OPR 0.125	01-Mar-17	17:40:13
15	170301G1_15	IPA	01-Mar-17	17:52:54
16	170301G1_16	B7B0118-BLK1 Method Blank 0.125	01-Mar-17	18:05:24
17	170301G1_17	B7B0114-BLK1 Method Blank 0.125	01-Mar-17	18:17:56
18	170301G1_18	1700261-01 WI-CV-GW10D-0217 0.125	01-Mar-17	18:30:28
19	170301G1_19	1700261-02 WI-CV-EB01-022017 0.125	01-Mar-17	18:43:01
20	170301G1_20	1700261-03 WI-CV-GW065-0217 0.125	01-Mar-17	18:55:35
21	170301G1_21	1700261-04 WI-CV-GW065/5P-0217 0.125	01-Mar-17	19:08:08
22	170301G1_22	1700261-05 WI-CV-GW105-0217 0.125	01-Mar-17	19:20:37
23	170301G1_23	1700261-06 WI-CV-EB03-022217 0.125	01-Mar-17	19:33:12
24	170301G1_24	1700261-07 WI-CV-GW06M-0217 0.125	01-Mar-17	19:45:41
25	170301G1_25	B7B0118-MSD1 Matrix Spike Dup 0.125	01-Mar-17	19:58:14
26	170301G1_26	B7B0118-MS1 Matrix Spike 0.125	01-Mar-17	20:10:56
27	170301G1_27	1700261-08 WI-CV-EB02-022117 0.125	01-Mar-17	20:23:23
28	170301G1_28	IPA	01-Mar-17	20:35:54
29	170301G1_29	ST170301G1-9 PFC CS2 17C0123	01-Mar-17	20:48:27
30	170301G1_30	IPA	01-Mar-17	21:01:00
31	170301G1_31	B7B0129-BS1 OPR 0.125	01-Mar-17	21:13:33
32	170301G1_32	IPA	01-Mar-17	21:26:03

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 09:06:06 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:06:22 Pacific Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time
33	170301G1_33	B7B0129-BLK1 Method Blank 0.125	01-Mar-17	21:38:38
34	170301G1_34	1700261-09 WI-CV-EB04-022317 0.125	01-Mar-17	21:51:09
35	170301G1_35	1700261-10 WI-CV-GW13M-0217 0.125	01-Mar-17	22:03:43
36	170301G1_36	1700245-01 Milk - 012617 0.125	01-Mar-17	22:16:13
37	170301G1_37	1700263-01 OW2E-MW09R-0217 0.12578	01-Mar-17	22:28:46
38	170301G1_38	1700263-02 OW2E-MW09RP-0217 0.12994	01-Mar-17	22:41:20
39	170301G1_39	1700263-03 OW2C-MW05-0217 0.13161	01-Mar-17	22:53:54
40	170301G1_40	1700263-04 OW2C-MW25-0217 0.12534	01-Mar-17	23:06:27
41	170301G1_41	1700263-05 OW2C-MW19-0217 0.12438	01-Mar-17	23:19:00
42	170301G1_42	B7B0129-MS1 Matrix Spike 0.12756	01-Mar-17	23:31:30
43	170301G1_43	B7B0129-MSD1 Matrix Spike Dup 0.12637	01-Mar-17	23:44:02
44	170301G1_44	1700263-06 OW2C-MW24-0217 0.1257	01-Mar-17	23:56:35
45	170301G1_45	1700263-07 OW2C-EB-0217 0.12647	02-Mar-17	00:09:09
46	170301G1_46	1700263-08 OW2C-FB-0217 0.13011	02-Mar-17	00:21:42
47	170301G1_47	IPA	02-Mar-17	00:34:15
48	170301G1_48	ST170301G1-10 PFC CS2 17C0123	02-Mar-17	00:46:50
49	170301G1_49	IPA	02-Mar-17	00:59:21

Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:20:49 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

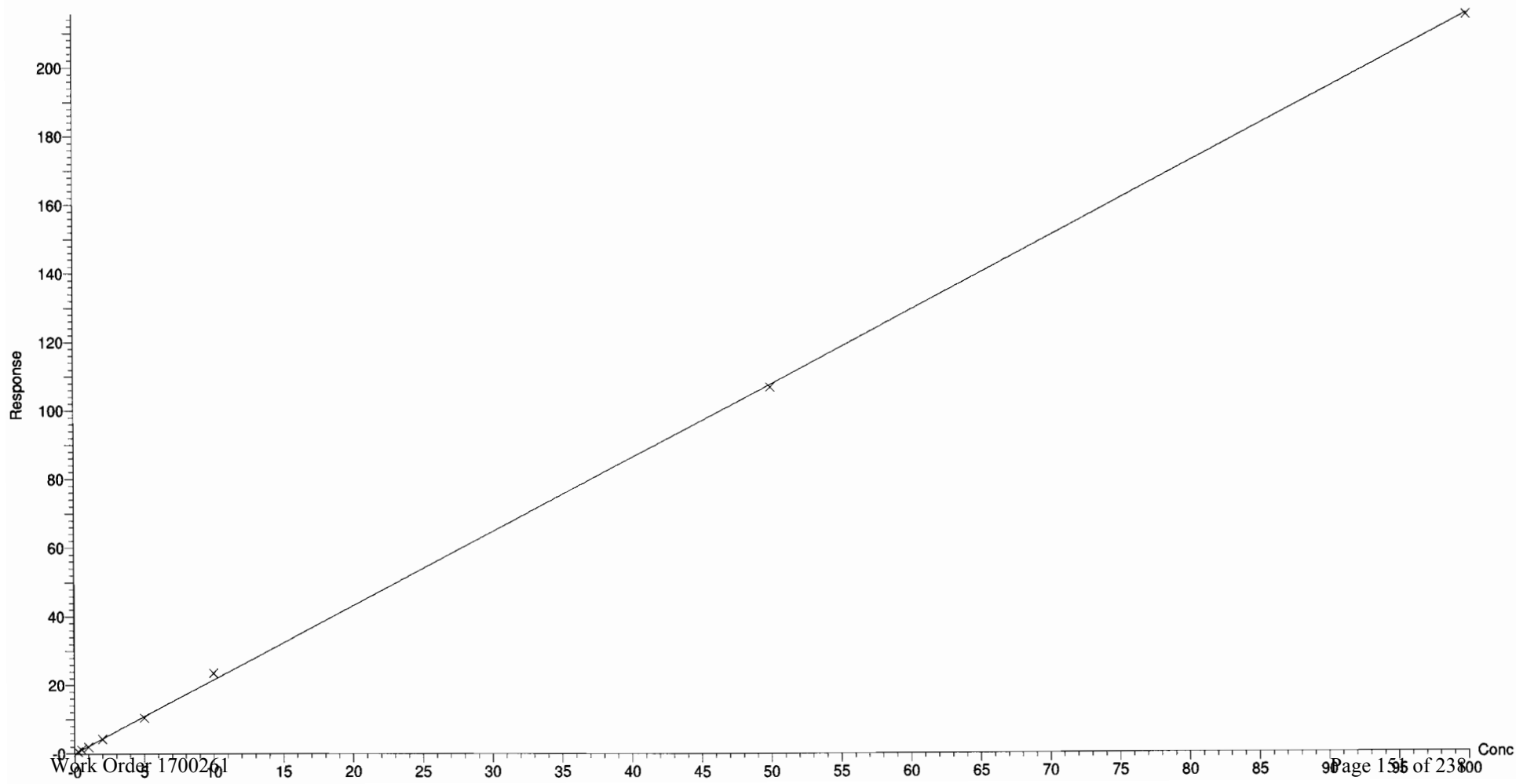
Compound name: PFBS

Correlation coefficient: $r = 0.999661$, $r^2 = 0.999322$

Calibration curve: $2.15479 * x + -0.00874732$

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

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

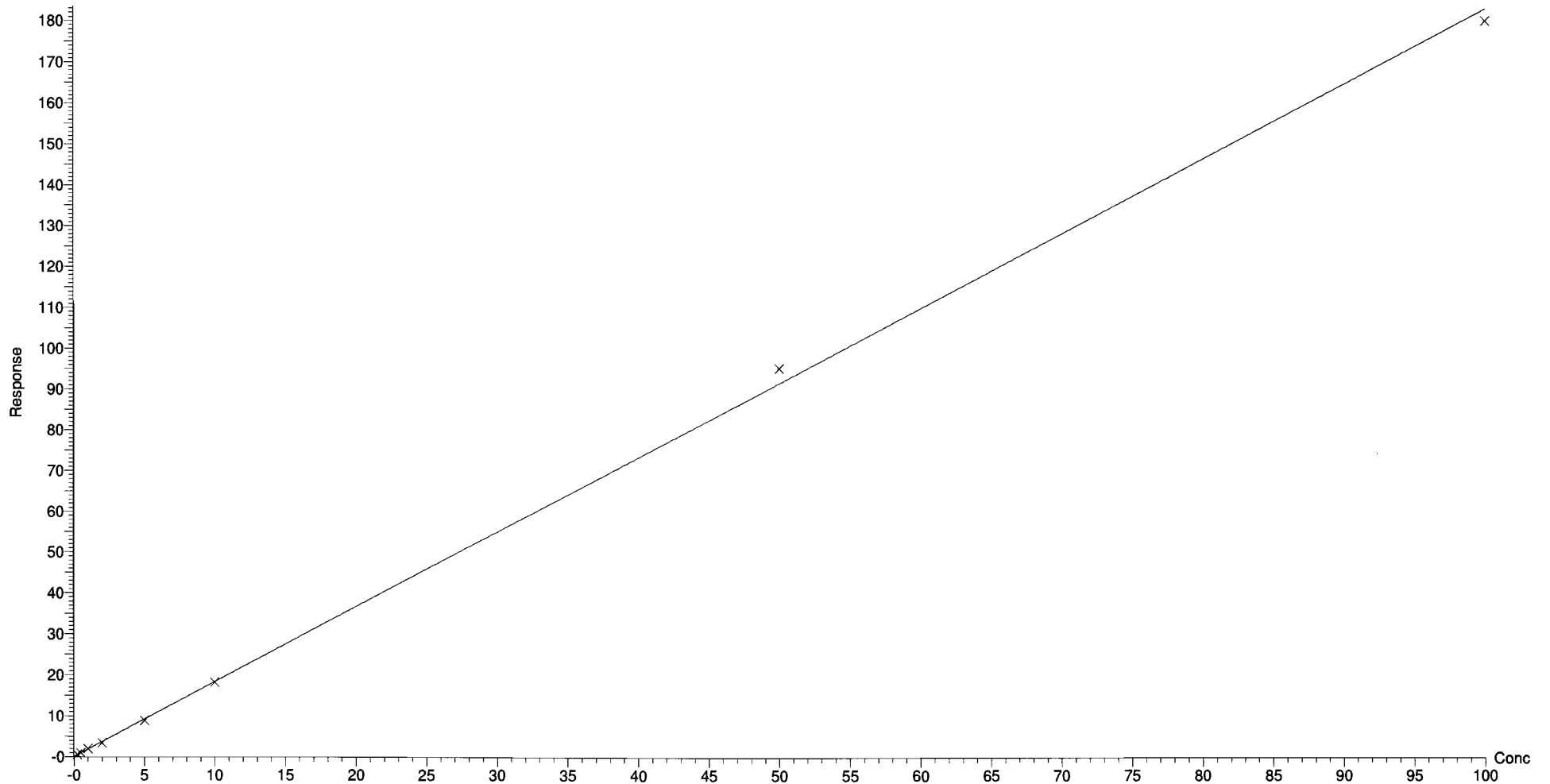


Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:20:49 Pacific Standard Time

Compound name: PFHpA
Correlation coefficient: $r = 0.999574$, $r^2 = 0.999147$
Calibration curve: $1.83353 * x + 0.0475478$
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\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:20:49 Pacific Standard Time

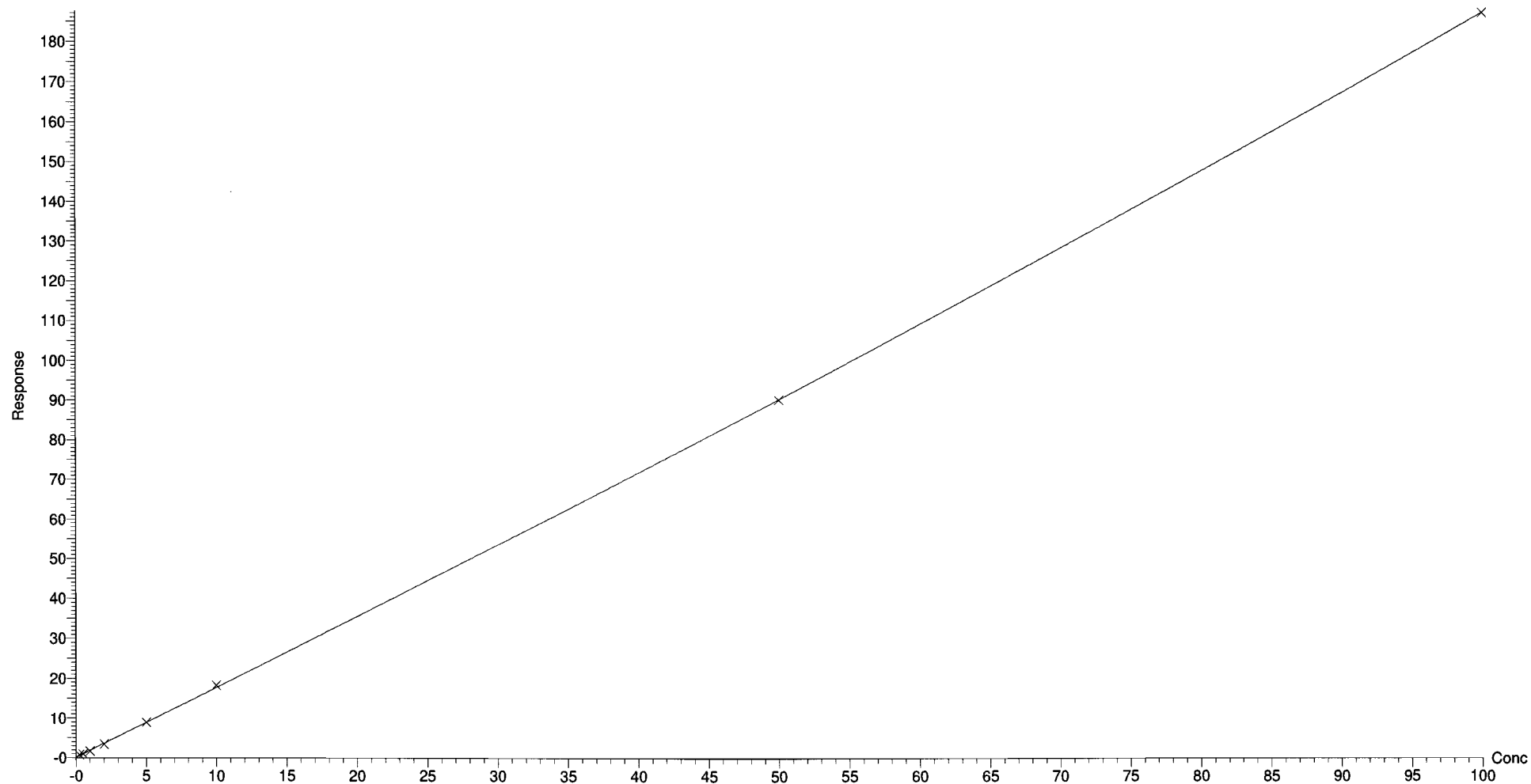
Compound name: PFHxS

Coefficient of Determination: $R^2 = 0.999683$

Calibration curve: $0.0013481 * x^2 + 1.73839 * x + 0.152899$

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

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



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:20:49 Pacific Standard Time

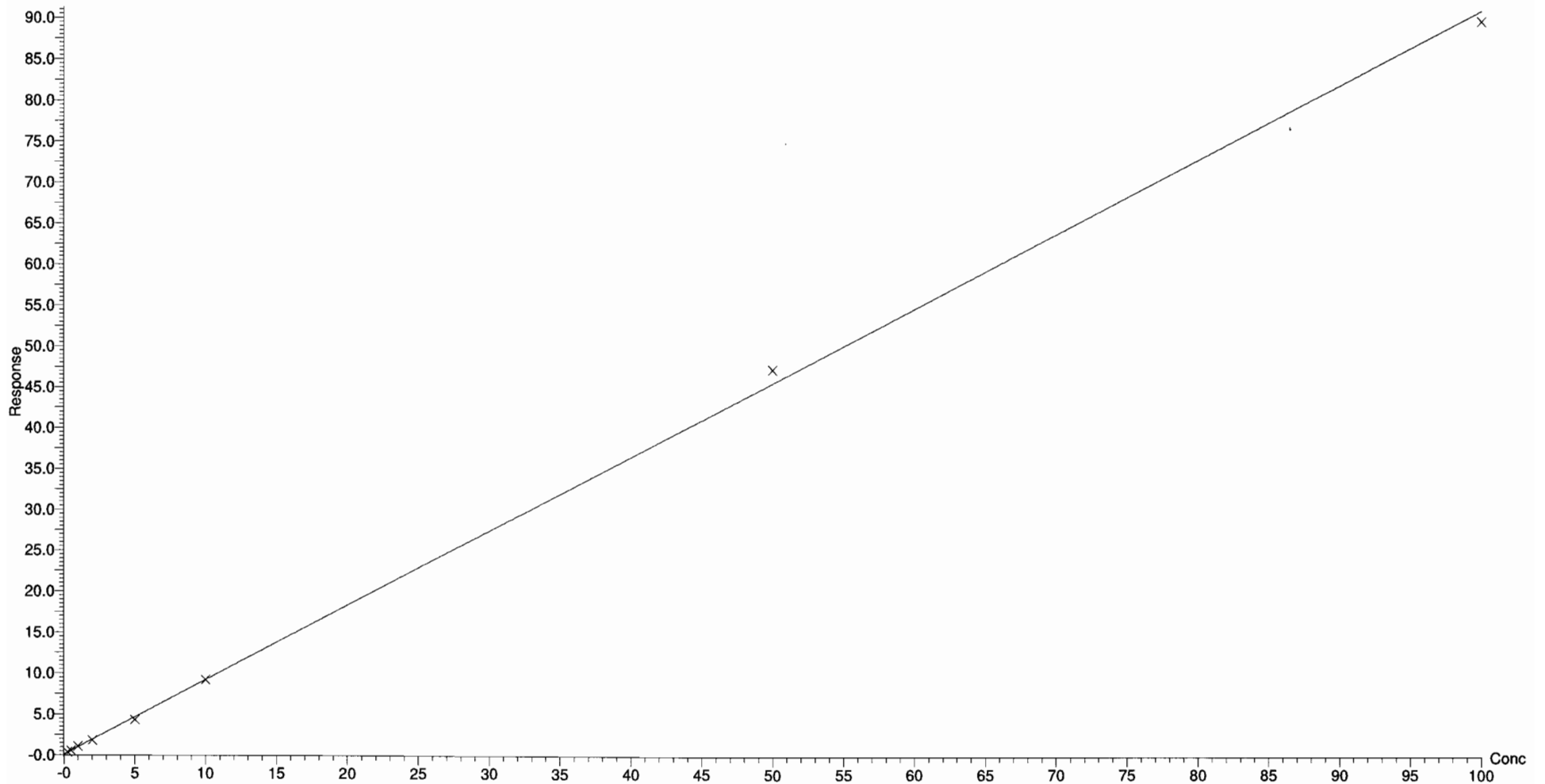
Compound name: PFOA

Correlation coefficient: $r = 0.999586$, $r^2 = 0.999171$

Calibration curve: $0.91162 * x + 0.105798$

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\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:20:49 Pacific Standard Time

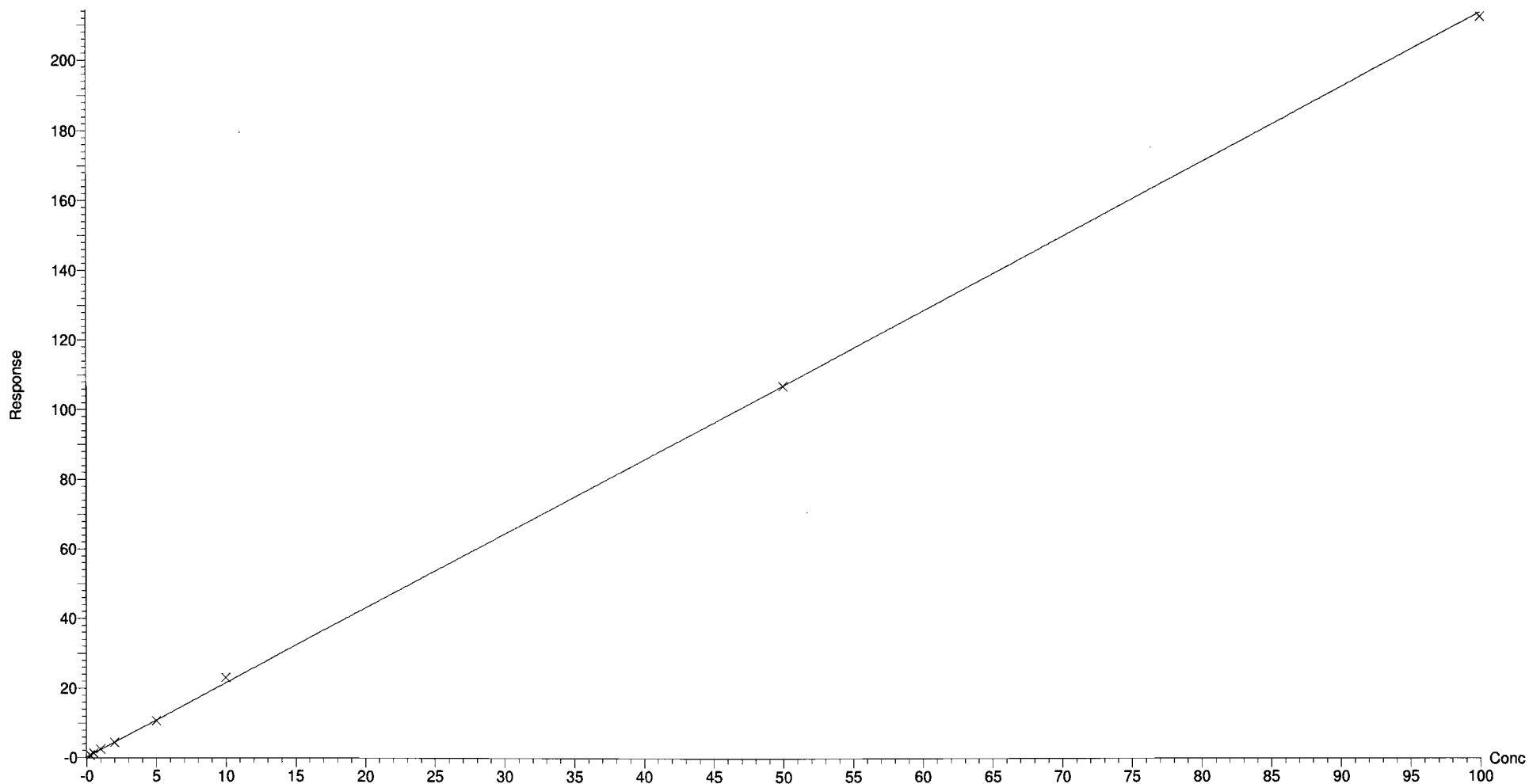
Compound name: PFNA

Correlation coefficient: $r = 0.999823$, $r^2 = 0.999645$

Calibration curve: $2.14195 * x + 0.180366$

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

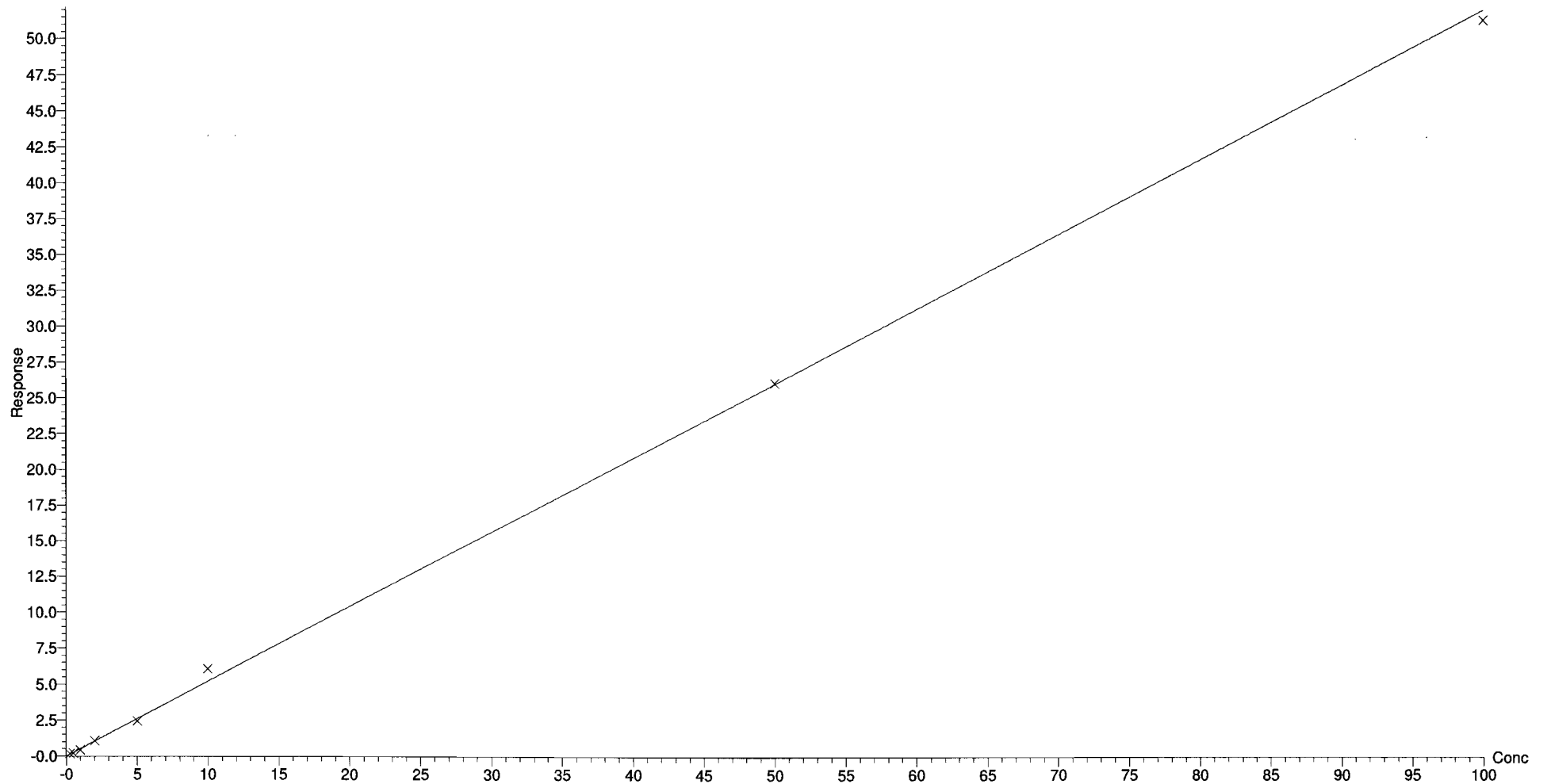
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-CRV.qld

Last Altered: Thursday, March 02, 2017 08:18:08 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:20:49 Pacific Standard Time

Compound name: PFOS
Correlation coefficient: $r = 0.998821$, $r^2 = 0.997644$
Calibration curve: $0.521667 * x + -0.00559175$
Response type: Internal Std (Ref 12), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: Untitled

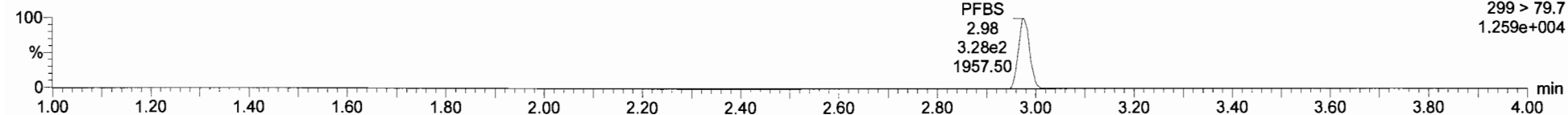
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:26:44 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: 02 Mar 2017 08:21:56

Name: 170301G1_2, Date: 01-Mar-2017, Time: 15:09:39, ID: ST170301G1-1 PFC CS-2 17C0119, Description: PFC CS-2 17C0119 A

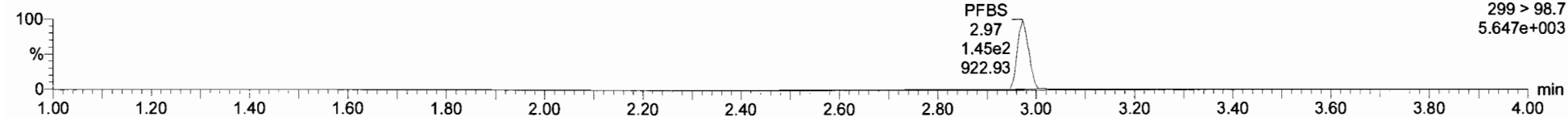
PFBS

170301G1_2



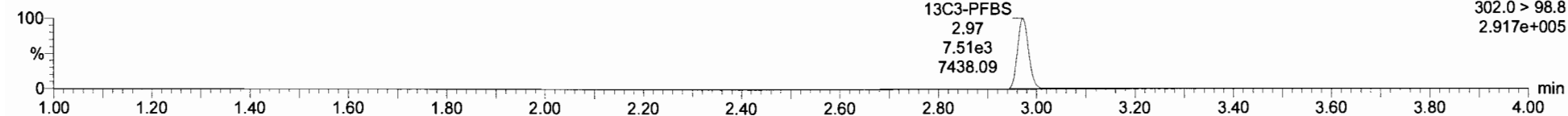
PFBS

170301G1_2



13C3-PFBS

170301G1_2

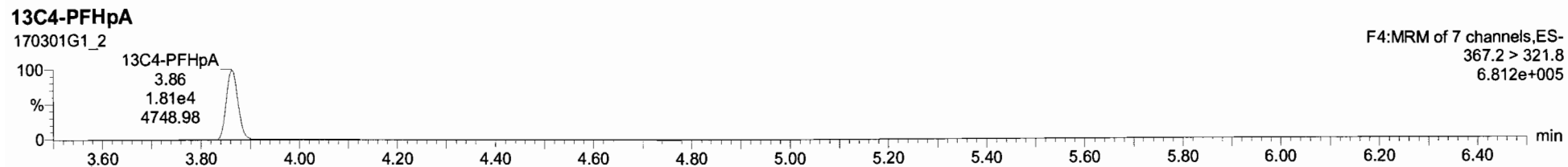
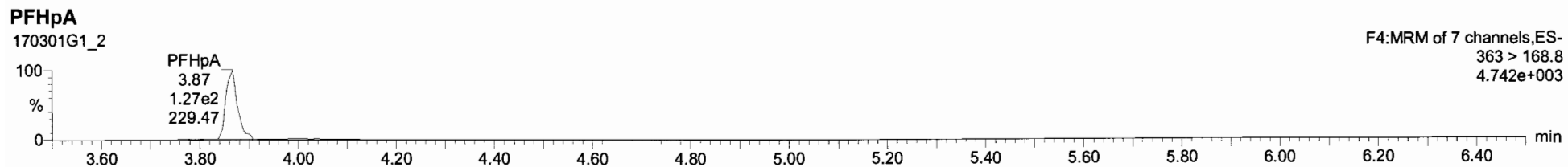
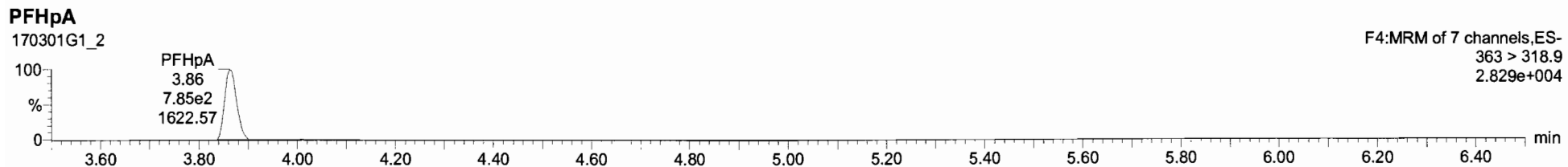


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:26:44 Pacific Standard Time

Name: 170301G1_2, Date: 01-Mar-2017, Time: 15:09:39, ID: ST170301G1-1 PFC CS-2 17C0119, Description: PFC CS-2 17C0119 A

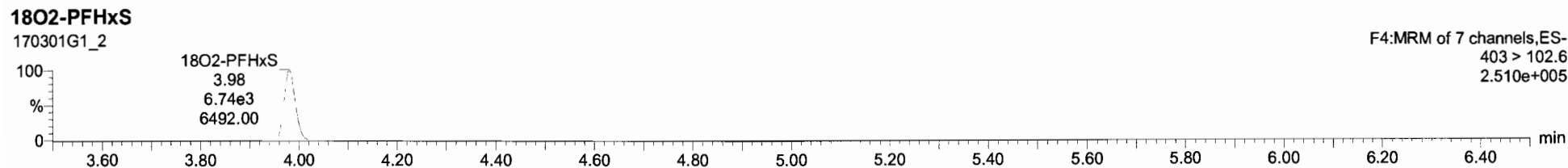
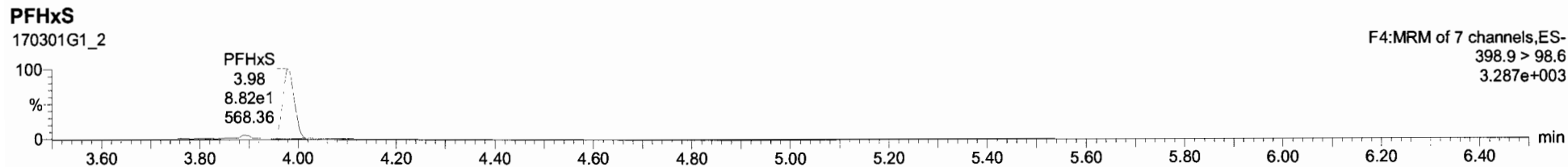
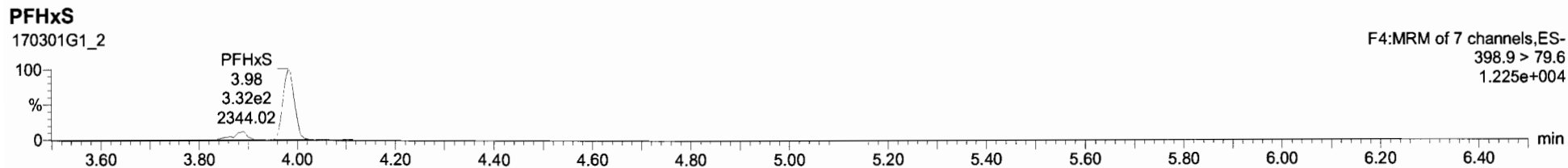


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

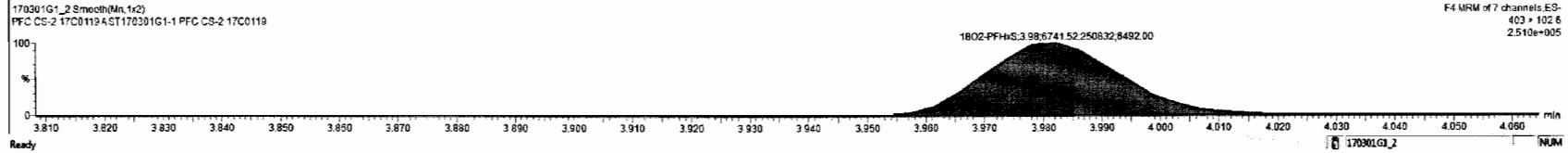
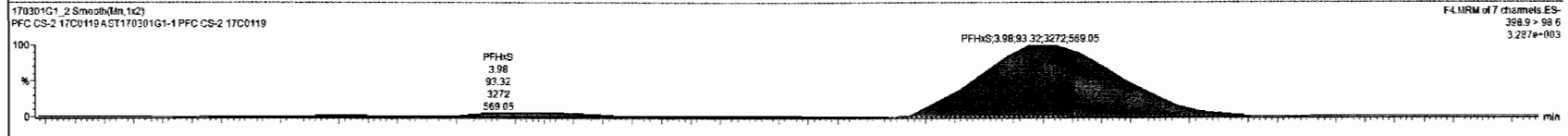
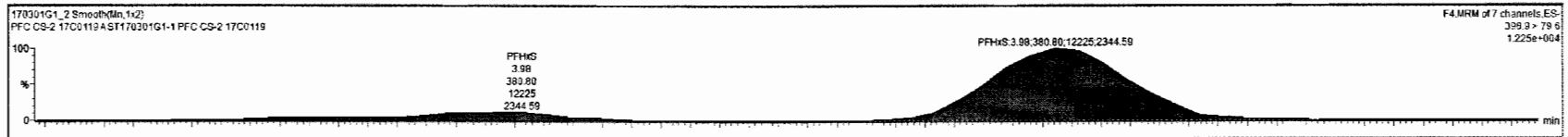
Printed: Thursday, March 02, 2017 08:26:44 Pacific Standard Time

Name: 170301G1_2, Date: 01-Mar-2017, Time: 15:09:39, ID: ST170301G1-1 PFC CS-2 17C0119, Description: PFC CS-2 17C0119 A





Name	Conc.	DL	%Rec	EMPC	Abn Resp	RRF	RT	IS#	RA	YN	RKT	AcqDate	AcqTime	1 st Chr Method	D	Sample Test	Factor	SW	Cal File	MDL
1 PFBS	0.25795124	0.00438	103.2		3.285e2	2.98	1	7	0.441	YES	1.00	01-Mar-17	15:09:39	6.064	ST170301G	PFC CS-2 17C01	1.0	1.00		NO
2 PFHpA	0.26947140		107.8		7.852e2	3.66	2	8			1.00	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
3 PFHxS	0.31132779		127.3		1.896e2	3.90	3	9			1.00	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
4 PFOA	0.25680670		102.7		8.805e2	4.27	4	10			1.00	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
5 PFNA	0.23020717		92.1		5.853e2	4.60	5	11			1.00	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
6 PFOS	0.31137446	0.0123	124.5		1.088e2	4.67	6	12			1.00	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
7 13C3-PFBS	12.552825	0.00444	100.4		7.505e3	0.442	2.97	7	14		0.866	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
8 13C4-PFHpA	12.003233	0.00643	96.0		1.812e4	1.117	3.66	8	14		0.970	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
9 18O2-PFHxS	11.872519	0.00481	95.0		6.742e3	0.420	3.98	9	14		1.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
10 13C2-PFOA	13.162765	0.00157	105.3		3.238e4	2.782	4.27	10	15		1.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
11 13C5-PFNA	12.027213	0.0138	96.2		1.086e4	0.846	4.60	11	16		1.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
12 13C8-PFOS	11.969626	0.00107	95.8		8.672e3	0.941	4.66	12	17		1.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
13 13C5-PFHxA	12.500000	0.00806	100.0		2.756e4	1.000	3.35	13	13		0.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
14 13C3-PFHxS	12.500000	0.0222	100.0		1.690e4	1.000	3.98	14	14		0.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
15 13C8-PFOA	12.500000	0.00484	100.0		1.105e4	1.000	4.27	15	15		0.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
16 13C9-PFNA	12.500000	0.00156	100.0		1.334e4	1.000	4.60	16	16		0.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
17 13C4-PFOS	12.500000	0.000859	100.0		9.621e3	1.000	4.66	17	17		0.000	01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
18 Total PFBS	0.25795124	0.00443					16					01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
19 Total PFHxS	0.31132779						19					01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
20 Total PFOA	0.25680670						20					01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO
21 Total PFOS	0.31137446	0.0123					21					01-Mar-17	15:09:39		ST170301G	PFC CS-2 17C01	1.0	1.00		NO



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

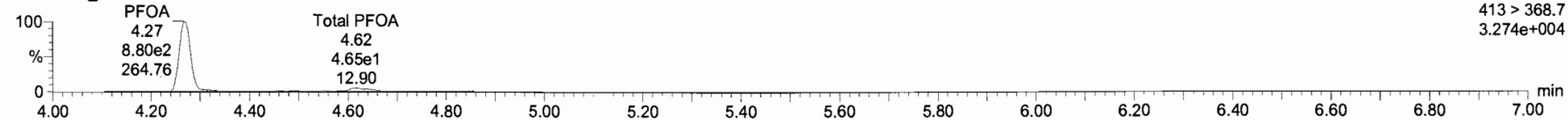
Printed: Thursday, March 02, 2017 08:26:44 Pacific Standard Time

Name: 170301G1_2, Date: 01-Mar-2017, Time: 15:09:39, ID: ST170301G1-1 PFC CS-2 17C0119, Description: PFC CS-2 17C0119 A

PFOA

170301G1_2

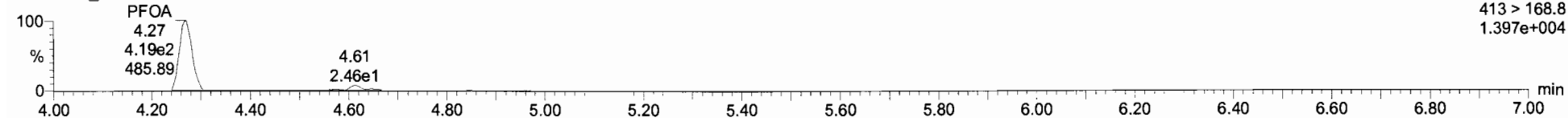
F5:MRM of 12 channels,ES-
413 > 368.7
3.274e+004



PFOA

170301G1_2

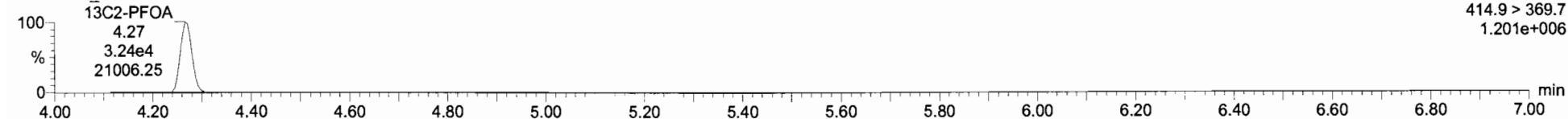
F5:MRM of 12 channels,ES-
413 > 168.8
1.397e+004



13C2-PFOA

170301G1_2

F5:MRM of 12 channels,ES-
414.9 > 369.7
1.201e+006



Dataset: Untitled

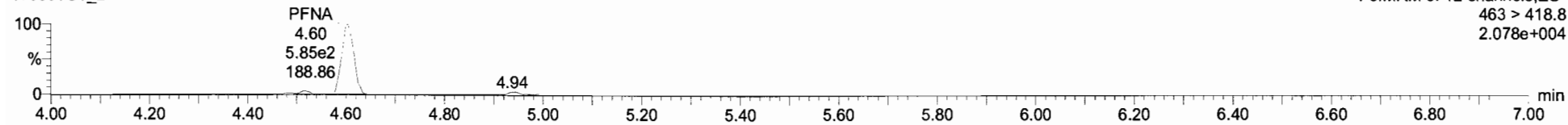
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:26:44 Pacific Standard Time

Name: 170301G1_2, Date: 01-Mar-2017, Time: 15:09:39, ID: ST170301G1-1 PFC CS-2 17C0119, Description: PFC CS-2 17C0119 A

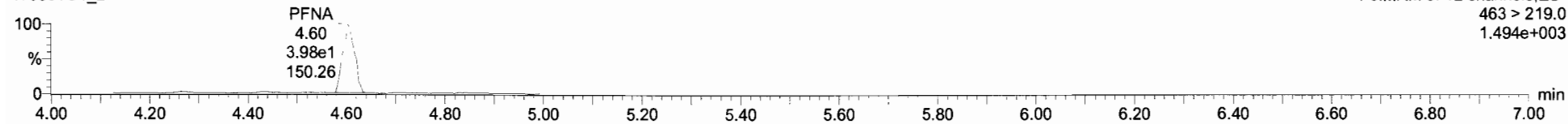
PFNA

170301G1_2



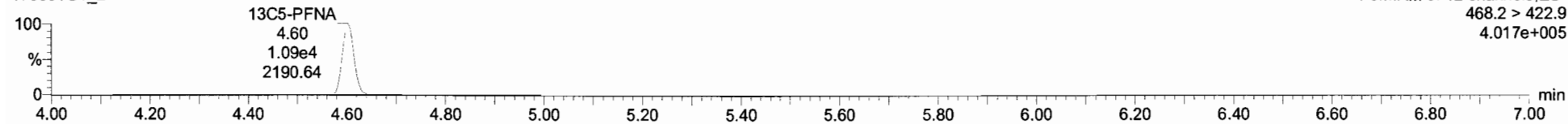
PFNA

170301G1_2



13C5-PFNA

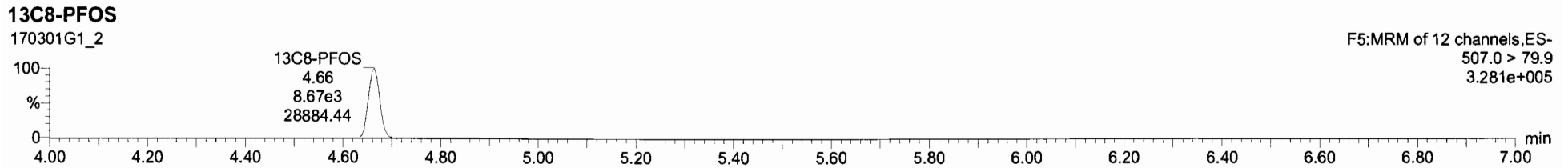
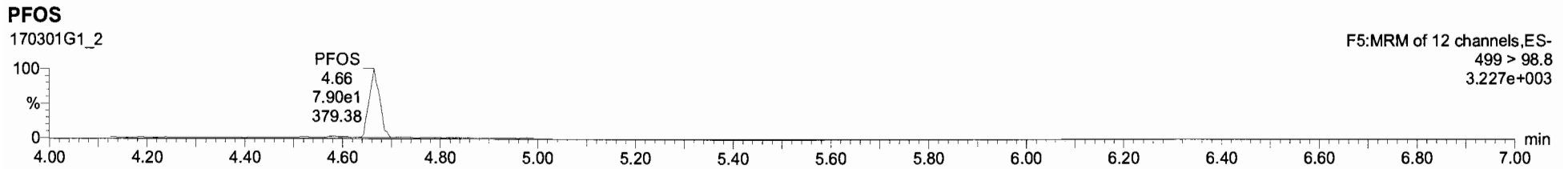
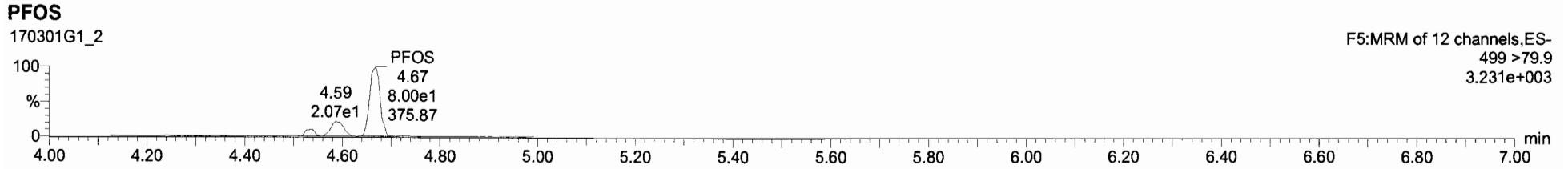
170301G1_2



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:26:44 Pacific Standard Time

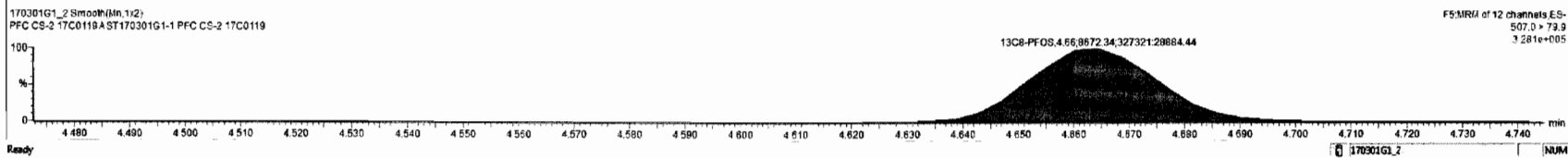
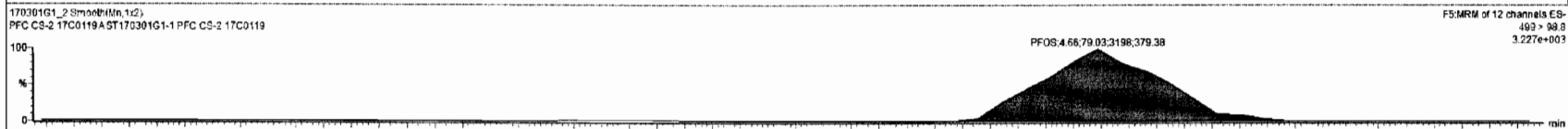
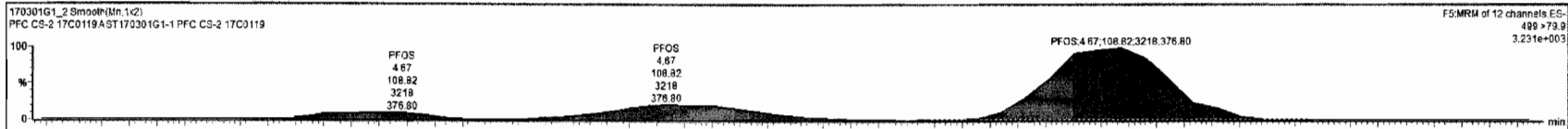
Name: 170301G1_2, Date: 01-Mar-2017, Time: 15:09:39, ID: ST170301G1-1 PFC CS-2 17C0119, Description: PFC CS-2 17C0119 A





170301G1_2 ST170301G1-1 PFC CS-2 17C0119 PFC CS-2 17C0119A

Name	Conc	DL	%Rec	EMPC	Abs Resp	RRP	RT	#	SR	RA	YAF	RRT	Acq Date	Acq Time	17 Channel ID	Sample Name	Factor	Sum	Cal File	MDL
1	PFBS	0.25795124	0.00436	103.2	3.285e2	2.96	1	7	0.441	YES	1.001	01-Mar-17	15:09:39	6.064	ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
2	PFHpA	0.26947140		107.8	7.852e2	3.96	2	8			1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
3	PFHxS	0.31613279		127.3	3.688e2	3.96	3	9			1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
4	PFOA	0.25680670		102.7	8.605e2	4.27	4	10			1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
5	PFNA	0.23020717		92.1	5.853e2	4.60	5	11			1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
6	PFOS	0.51337446	0.0123	124.5	1.086e2	4.67	6	12			1.001	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
7	13C3-PFBS	12.552825	0.00444	100.4	7.595e3	0.442	2.97	7	14		0.586	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
8	13C4-PFHpA	12.003233	0.00643	96.0	1.612e4	1.117	3.65	8	14		0.970	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
9	18O2-PFHxS	11.872519	0.00461	95.0	6.742e3	0.420	3.96	9	14		1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
10	13C2-PFOA	13.162765	0.00157	105.3	3.238e3	2.782	4.27	10	15		1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
11	13C5-PFNA	12.027213	0.0138	96.2	1.086e4	0.846	4.60	11	16		1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
12	13C8-PFOS	11.969626	0.00107	95.8	5.672e3	0.941	4.66	12	17		1.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
13	13C5-PFHxS	12.500000	0.00806	100.0	2.756e4	1.000	3.35	13	13		0.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
14	13C3-PFHxS	12.500000	0.0222	100.0	1.690e4	1.000	3.96	14	14		0.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
15	13C8-PFOA	12.500000	0.00484	100.0	1.105e4	1.000	4.27	15	15		0.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
16	13C9-PFNA	12.500000	0.00186	100.0	1.334e4	1.000	4.60	16	16		0.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.000809	100.0	9.621e3	1.000	4.66	17	17		0.000	01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
18	Total PFBS	0.25795124	0.00443					18				01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
19	Total PFHxS	0.31613279						19				01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
20	Total PFOA	0.25680670						20				01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO
21	Total PFOS	0.51337446	0.0123					21				01-Mar-17	15:09:39		ST170301G...	PFC CS-2 17C01...	1.0	1.00		NO



Dataset: Untitled

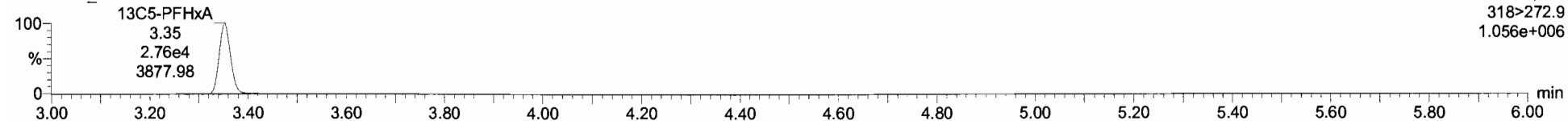
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:26:44 Pacific Standard Time

Name: 170301G1_2, Date: 01-Mar-2017, Time: 15:09:39, ID: ST170301G1-1 PFC CS-2 17C0119, Description: PFC CS-2 17C0119 A

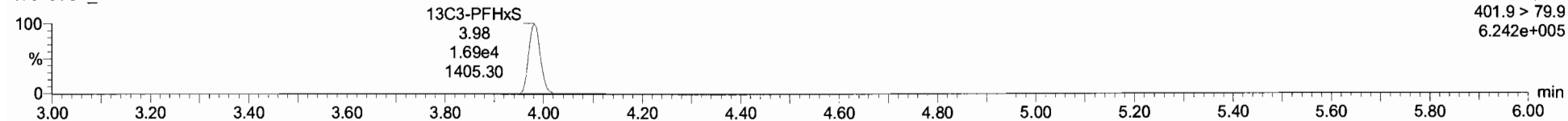
13C5-PFHxA

170301G1_2



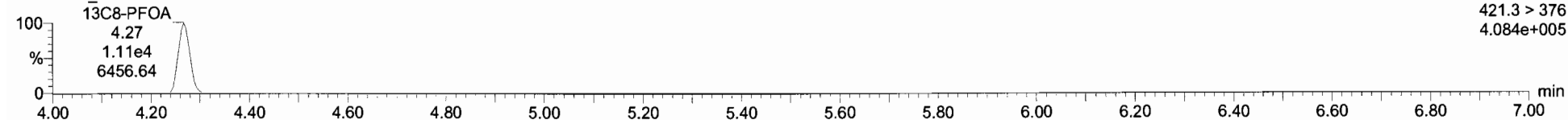
13C3-PFHxS

170301G1_2



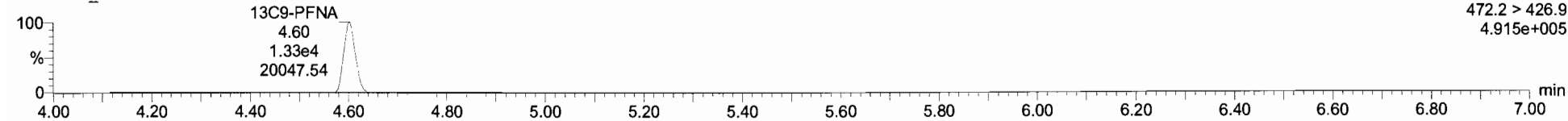
13C8-PFOA

170301G1_2



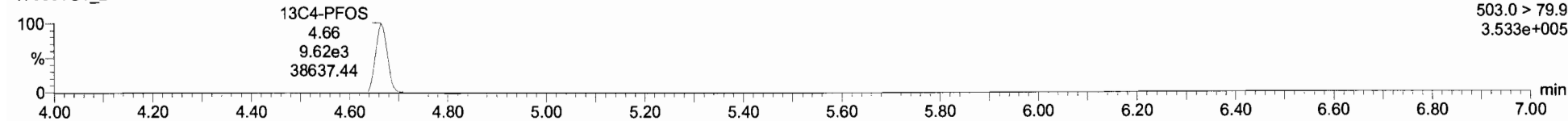
13C9-PFNA

170301G1_2



13C4-PFOS

170301G1_2



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

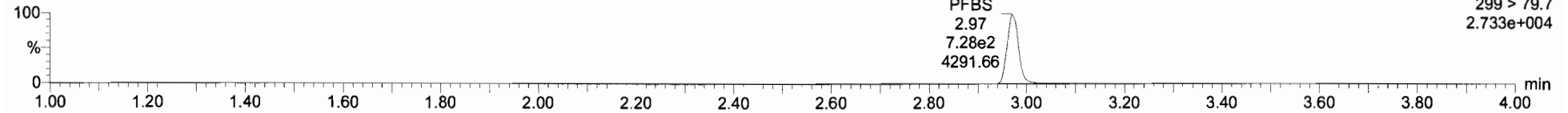
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Method: U:\G1.PRO\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45
Calibration: 02 Mar 2017 08:21:56

Name: 170301G1_3, Date: 01-Mar-2017, Time: 15:22:08, ID: ST170301G1-2 PFC CS-1 17C0120, Description: PFC CS-1 17C0120 A

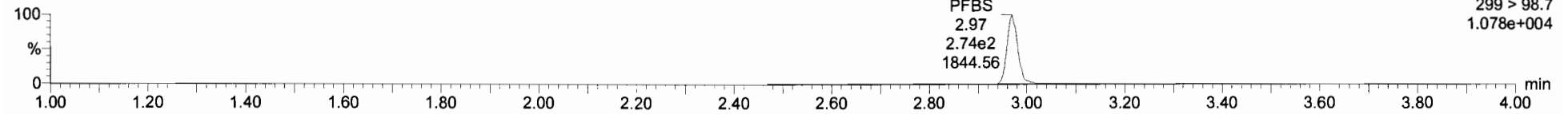
PFBS

170301G1_3



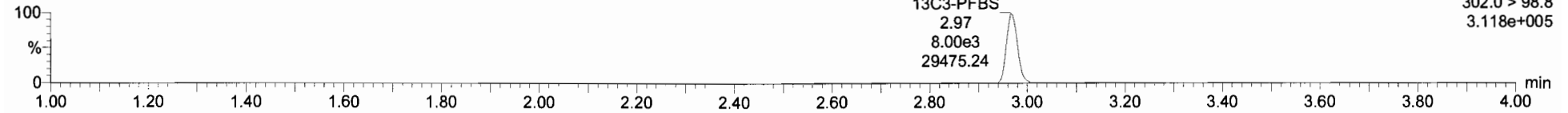
PFBS

170301G1_3



13C3-PFBS

170301G1_3

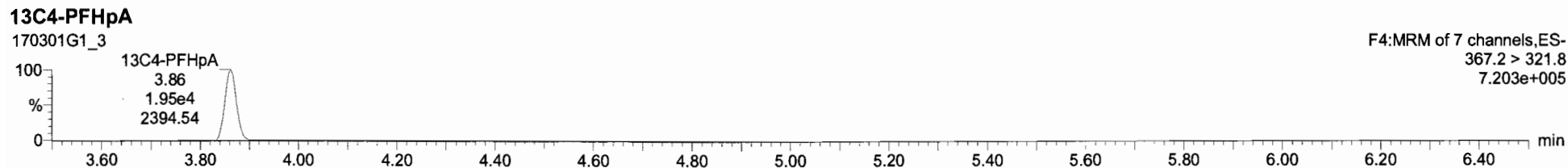
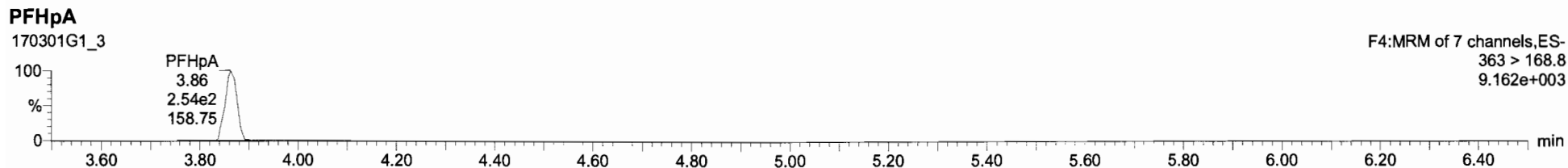
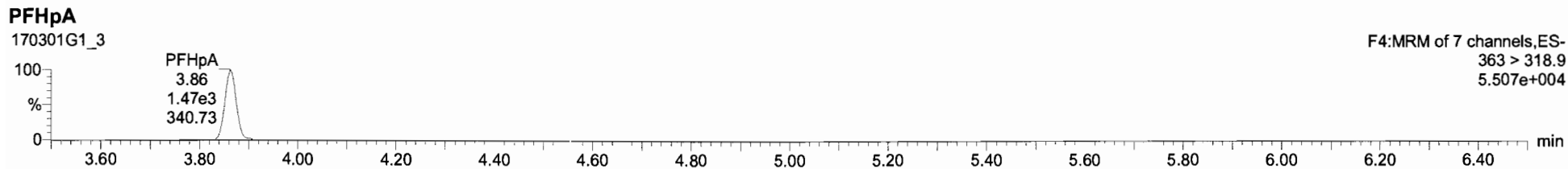


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_3, Date: 01-Mar-2017, Time: 15:22:08, ID: ST170301G1-2 PFC CS-1 17C0120, Description: PFC CS-1 17C0120 A

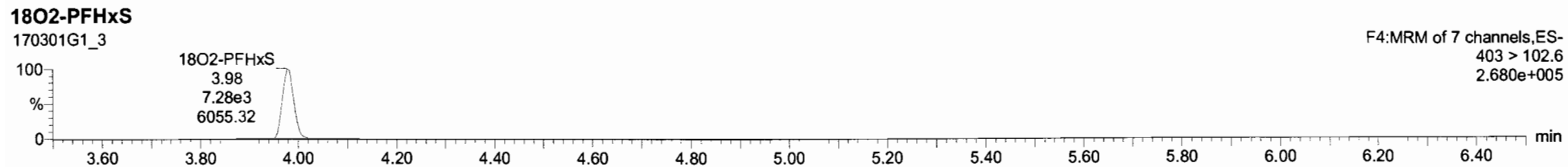
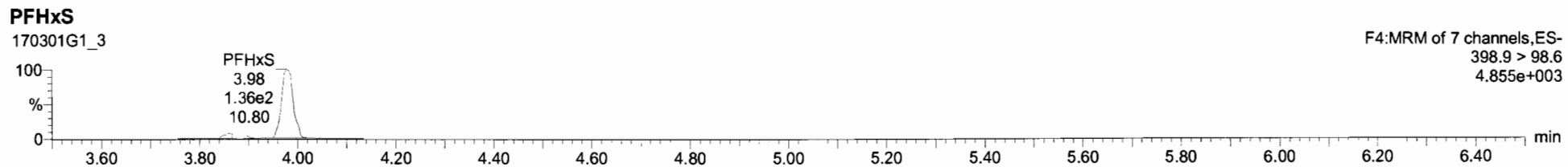
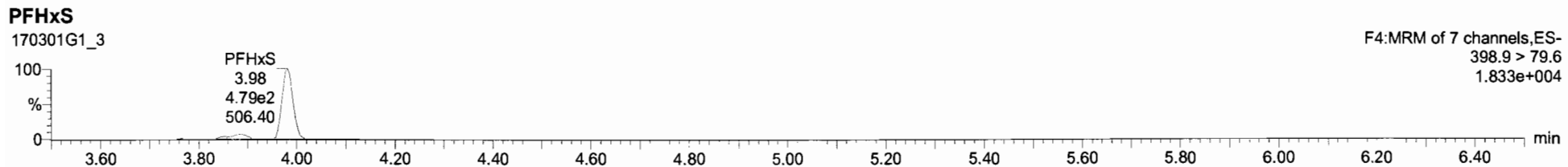


Dataset: Untitled

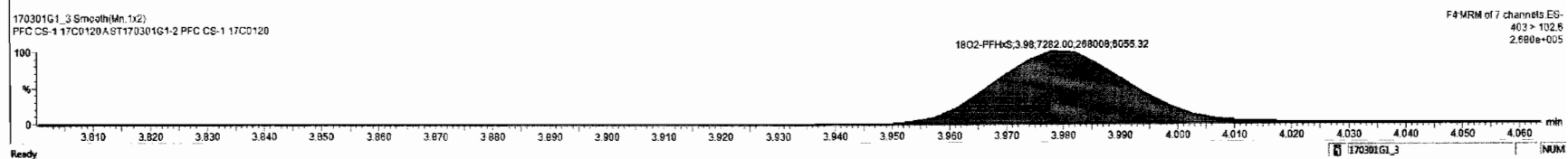
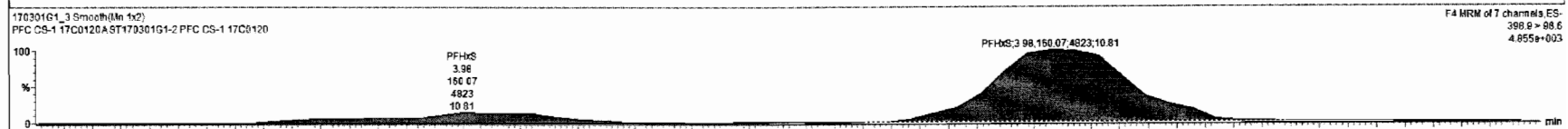
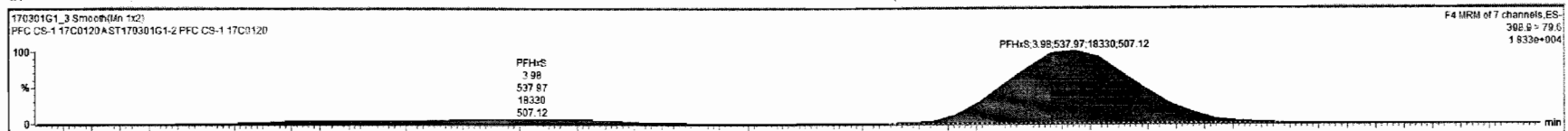
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_3, Date: 01-Mar-2017, Time: 15:22:08, ID: ST170301G1-2 PFC CS-1 17C0120, Description: PFC CS-1 17C0120 A



Name	Comp	DL	%Rec	EMPC	Abd Pctd	RPF	RT	#	ES	RA	Y/N	RRT	Acq Date	Acq Time	Ch Name	D	Sample Test	Factor1	Sw	Cal File	INCL
PFBS	0.53196200	0.00436	106.4		2.27942		2.97	1	7	0.377	YES	1.001	01-Mar-17	15:22:08	5.830	ST170301G	PFC CS-1 17C01	1.0	1.00		NO
PFHpA	0.48816450		97.6		1.47243		3.86	2	8			1.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
PFHxS	0.42635111		98.0		3.56042		3.98	3	9			1.001	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
PFOA	0.52834878		105.3		1.60543		4.27	4	10			1.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
PFNA	0.50488938		101.0		1.19443		4.60	5	11			1.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
PFOS	0.37899948	0.0142	75.8		1.57342		4.66	6	12			1.001	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CS-PFBS	12.694488	0.00114	101.6		7.98543	0.442	2.97	7	14			0.986	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CA-PFHpA	12.270736	0.0128	98.2		1.95244	1.117	3.86	8	14			0.970	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
1802-PFHxS	12.166992	0.00501	97.4		7.28243	0.420	3.98	9	14			0.999	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CB-PFOA	12.303831	0.00799	98.4		3.42544	2.762	4.27	10	15			1.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CS-PFNA	11.994471	0.00973	96.0		1.18344	0.848	4.60	11	16			1.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CB-PFOS	11.847369	0.00710	94.8		1.02444	0.941	4.66	12	17			0.999	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CS-PFHxA	12.500000	0.00448	100.0		3.03944	1.000	3.35	13	13			0.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CS-PFHxS	12.500000	0.00404	100.0		1.78144	1.000	3.86	14	14			0.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CB-PFOA	12.500000	0.00564	100.0		1.25144	1.000	4.27	15	15			0.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CB-PFNA	12.500000	0.00256	100.0		1.45744	1.000	4.60	16	16			0.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
13CA-PFOS	12.500000	0.00333	100.0		1.14844	1.000	4.66	17	17			0.000	01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
Total PFBS	0.53198800	0.00440						18					01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
Total PFHxS	0.44319514							19					01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
Total PFOA	0.52834878							20					01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO
Total PFOS	0.42635111	0.0142						21					01-Mar-17	15:22:08		ST170301G	PFC CS-1 17C01	1.0	1.00		NO



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

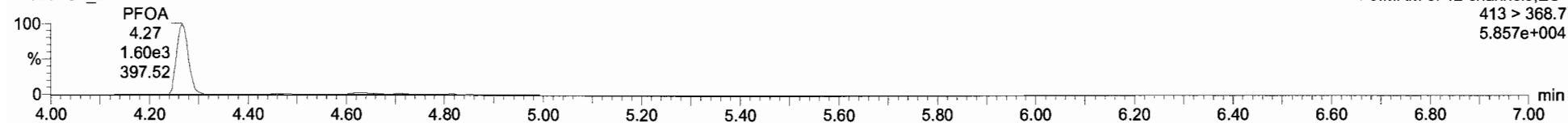
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_3, Date: 01-Mar-2017, Time: 15:22:08, ID: ST170301G1-2 PFC CS-1 17C0120, Description: PFC CS-1 17C0120 A

PFOA

170301G1_3

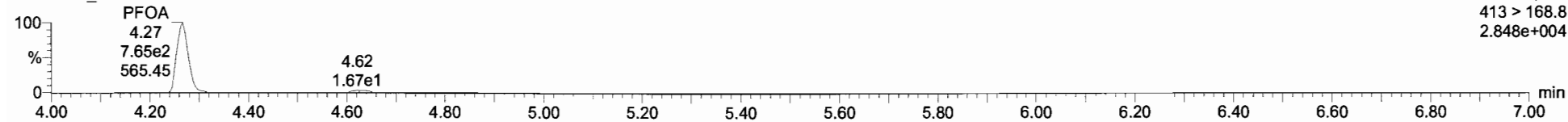
F5:MRM of 12 channels,ES-
413 > 368.7
5.857e+004



PFOA

170301G1_3

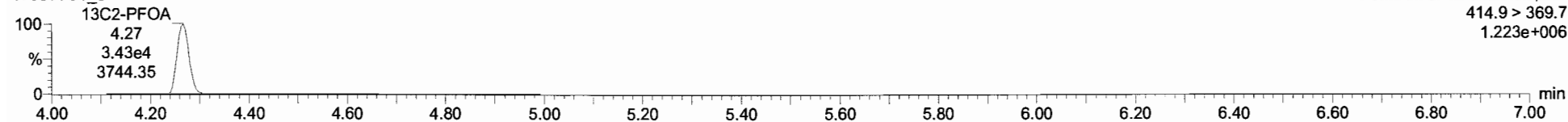
F5:MRM of 12 channels,ES-
413 > 168.8
2.848e+004



13C2-PFOA

170301G1_3

F5:MRM of 12 channels,ES-
414.9 > 369.7
1.223e+006



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

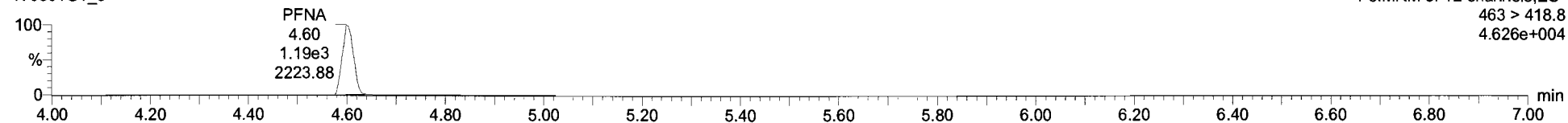
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_3, Date: 01-Mar-2017, Time: 15:22:08, ID: ST170301G1-2 PFC CS-1 17C0120, Description: PFC CS-1 17C0120 A

PFNA

170301G1_3

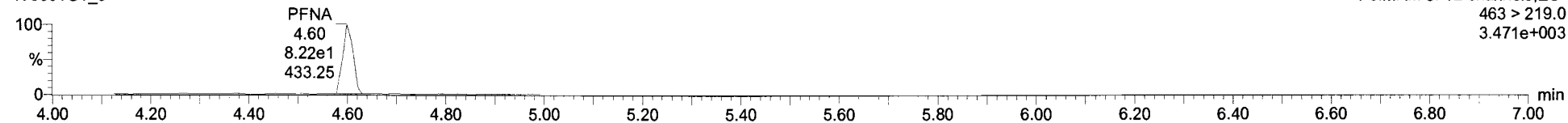
F5:MRM of 12 channels,ES-
463 > 418.8
4.626e+004



PFNA

170301G1_3

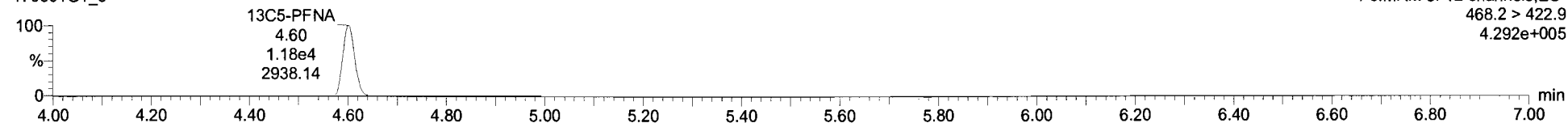
F5:MRM of 12 channels,ES-
463 > 219.0
3.471e+003



13C5-PFNA

170301G1_3

F5:MRM of 12 channels,ES-
468.2 > 422.9
4.292e+005



Dataset: Untitled

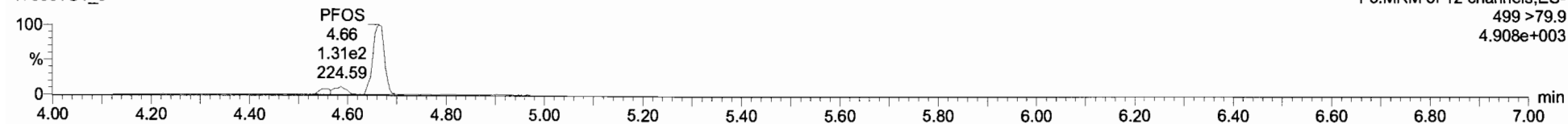
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_3, Date: 01-Mar-2017, Time: 15:22:08, ID: ST170301G1-2 PFC CS-1 17C0120, Description: PFC CS-1 17C0120 A

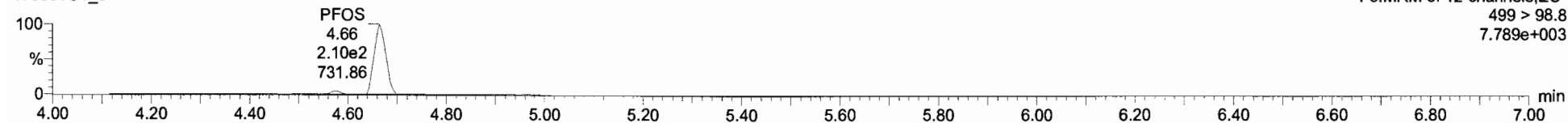
PFOS

170301G1_3



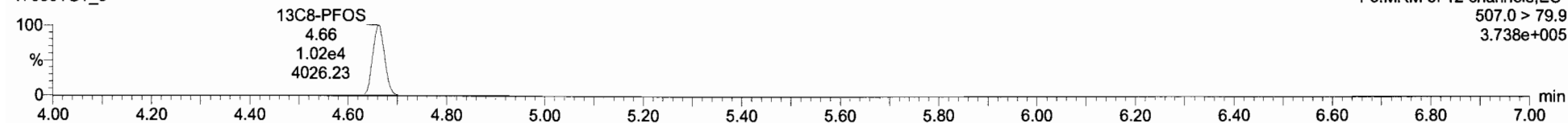
PFOS

170301G1_3



13C8-PFOS

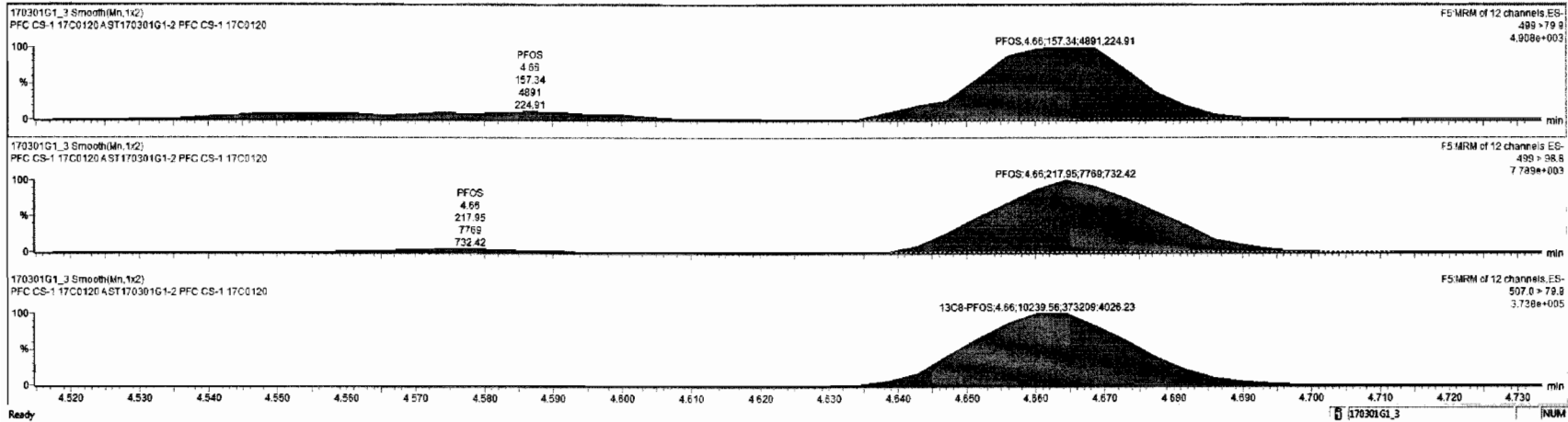
170301G1_3





170301G1_3 - ST170301G1-2 PFC CS-1 17C0120 - PFC CS-1 17C0120A

Item	Comp	DL	%Rec	EMPC	Abs Resp	RF	RT	#	ISF	RA	YN	ERT	Acq Date	Acq Time	# Cvr Rows	D	Sample Text	Factor1	SNV	Cal File	>MDL
1	PFBS	0.53198300	0.00436	106.4	7.279e2	2.97	1	7	0.377	YES	1.001	01-Mar-17	15:22:08	5.630	ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
2	PFHpA	0.48816450		97.6	1.472e3	3.86	2	9			1.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
3	PFHxS	0.44310514		88.6	5.380e2	3.98	3	9			1.001	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
4	PFOA	0.52634876		105.3	1.605e3	4.27	4	10			1.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
5	PFNA	0.50488938		101.0	1.194e3	4.80	5	11			1.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
6	PFOS	0.57089948	0.0142	75.8	1.573e3	4.86	6	12			1.001	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
7	13C3-PFBS	12.694468	0.00114	101.6	7.996e3	0.442	2.97	7	14		0.806	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
8	13C4-PFHpA	12.270736	0.0128	98.2	1.952e4	1.117	3.96	8	14		0.970	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
9	18O2-PFHxS	12.189892	0.00501	97.4	7.282e3	0.420	3.98	9	14		0.999	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
10	13C3-PFOA	12.303631	0.00799	96.4	3.425e4	2.782	4.27	10	15		1.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
11	13C5-PFNA	11.994471	0.00973	96.0	1.183e4	0.846	4.80	11	16		1.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
12	13C8-PFOS	11.847369	0.00710	94.8	1.024e4	0.941	4.86	12	17		0.999	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
13	13C5-PFHxA	12.500000	0.00448	100.0	3.039e4	1.000	3.35	13	13		0.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
14	13C3-PFHxS	12.500000	0.00404	100.0	1.781e4	1.000	3.86	14	14		0.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
15	13C8-PFOA	12.500000	0.0564	100.0	1.251e4	1.000	4.27	15	15		0.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
16	13C8-PFNA	12.500000	0.00256	100.0	1.457e4	1.000	4.80	16	16		0.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
17	13C4-PFOS	12.500000	0.00333	100.0	1.148e4	1.000	4.86	17	17		0.000	01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
18	Total PFBS	0.53198300	0.00440					18				01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
19	Total PFHpA	0.44310514						19				01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
20	Total PFOA	0.52634876						20				01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND
21	Total PFOS	0.42635111	0.0142					21				01-Mar-17	15:22:08		ST170301G...	PFC CS-1 17C01...	1.0	1.00			ND



Dataset: Untitled

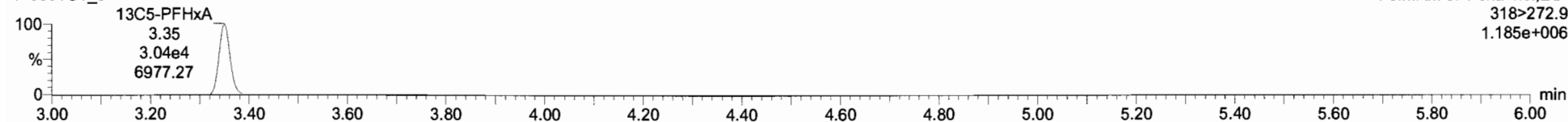
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_3, Date: 01-Mar-2017, Time: 15:22:08, ID: ST170301G1-2 PFC CS-1 17C0120, Description: PFC CS-1 17C0120 A

13C5-PFHxA

170301G1_3

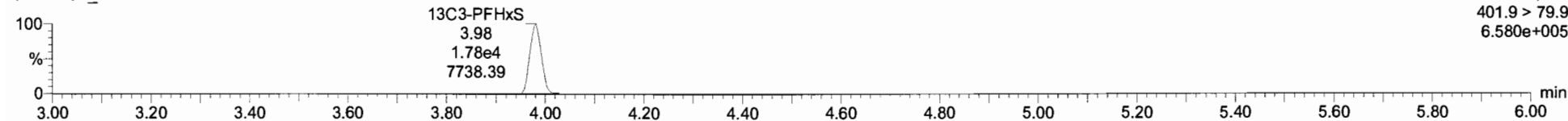
F3:MRM of 1 channel,ES-
318>272.9
1.185e+006



13C3-PFHxS

170301G1_3

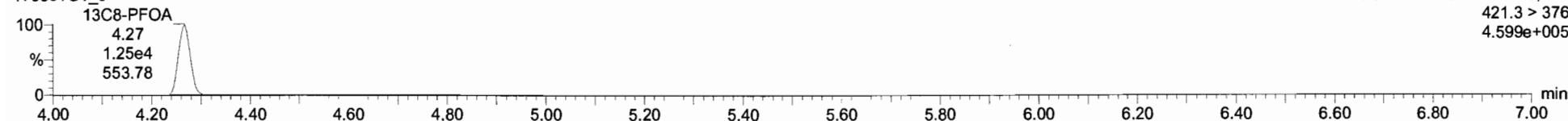
F4:MRM of 7 channels,ES-
401.9 > 79.9
6.580e+005



13C8-PFOA

170301G1_3

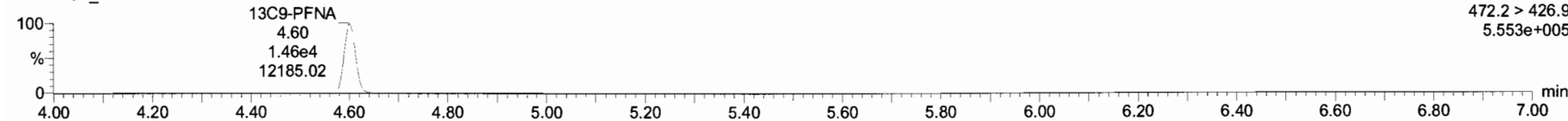
F5:MRM of 12 channels,ES-
421.3 > 376
4.599e+005



13C9-PFNA

170301G1_3

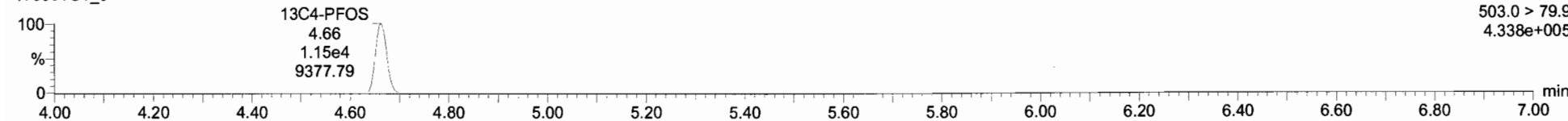
F5:MRM of 12 channels,ES-
472.2 > 426.9
5.553e+005



13C4-PFOS

170301G1_3

F5:MRM of 12 channels,ES-
503.0 > 79.9
4.338e+005



Dataset: Untitled

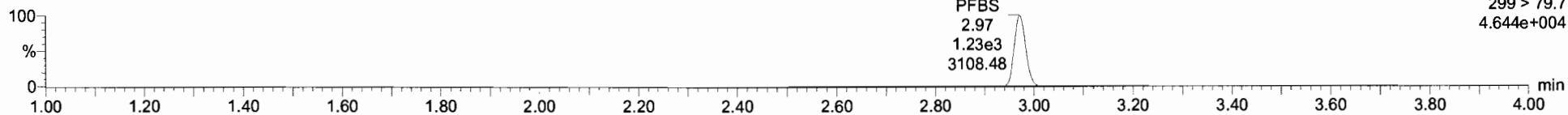
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_4, Date: 01-Mar-2017, Time: 15:34:43, ID: ST170301G1-3 PFC CS0 17C0121, Description: PFC CS0 17C0121 A

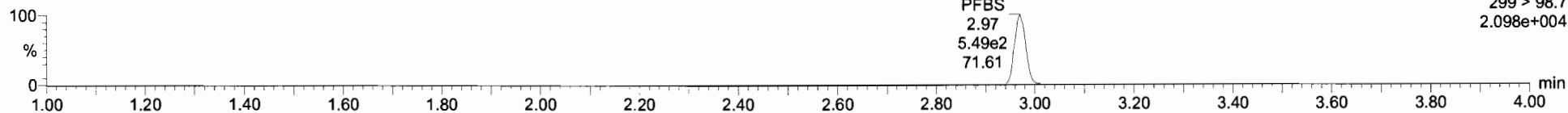
PFBS

170301G1_4



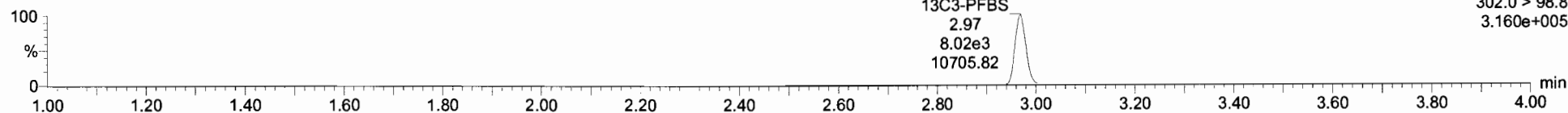
PFBS

170301G1_4



13C3-PFBS

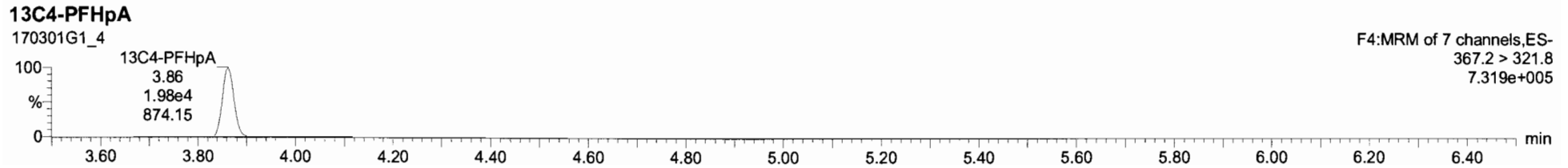
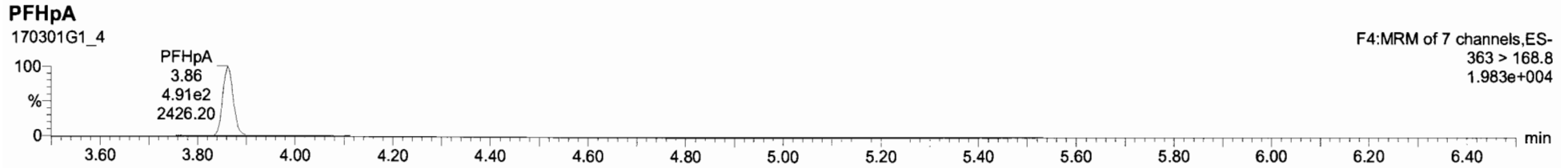
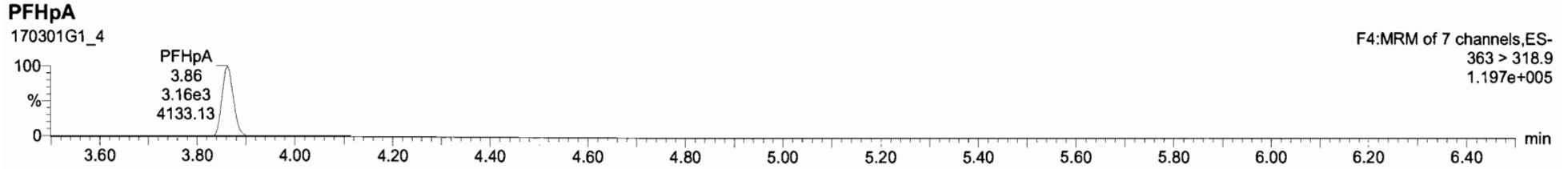
170301G1_4



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_4, Date: 01-Mar-2017, Time: 15:34:43, ID: ST170301G1-3 PFC CS0 17C0121, Description: PFC CS0 17C0121 A

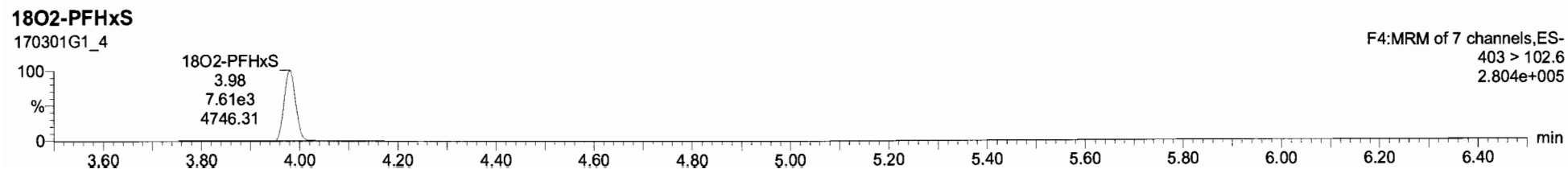
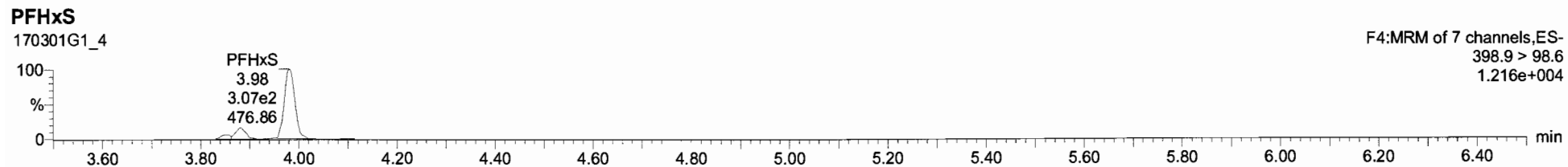
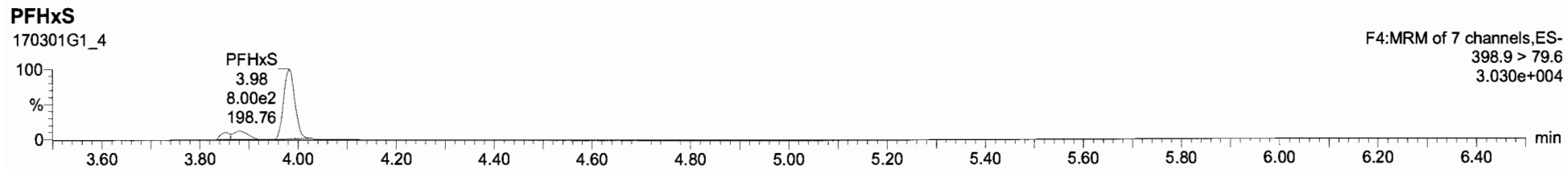


Dataset: Untitled

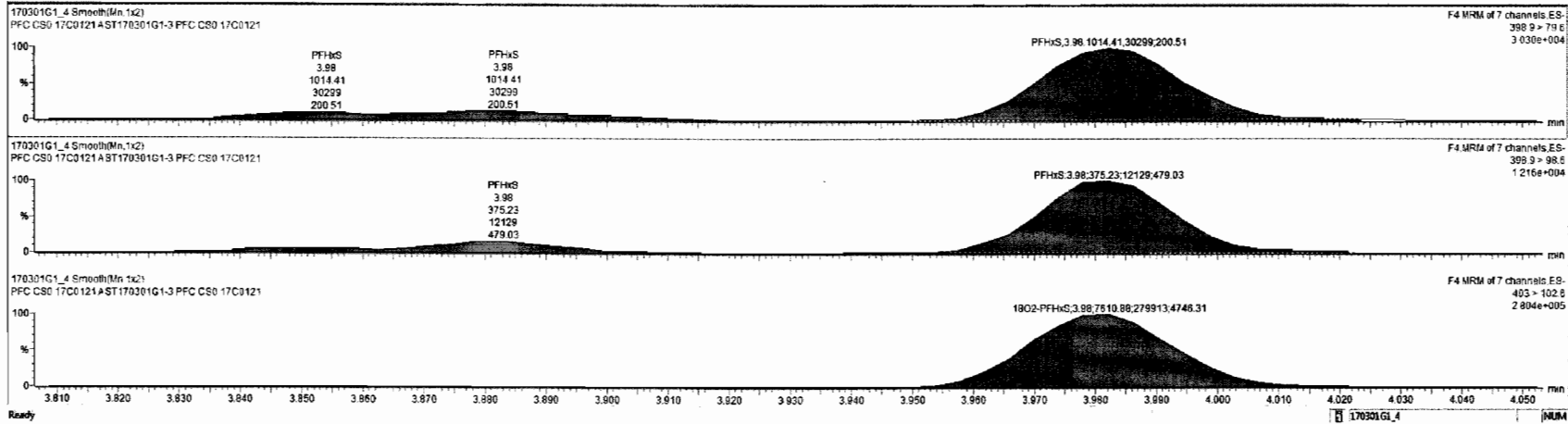
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_4, Date: 01-Mar-2017, Time: 15:34:43, ID: ST170301G1-3 PFC CS0 17C0121, Description: PFC CS0 17C0121 A



Name	Conc	DL	M/Rec	EMPC	Abs Resp	RRP	RT	#	IS#	RA	YN	RRTI	Acq Date	Acq Time	17 Chr Noise	D	Sample Text	Factor1	SW	Cal File	>MOD
1	PFBS	0.8997441	0.00474	89.1	1.227e3	2.97	1	7	0.447	YES	1.000	01-Mar-17	15:34:43	292.645	ST170301G	PFC CS0 17C01...	1.0	1.00			NO
2	PFHpA	1.0610513	106.1		3.162e3	3.86	2	6			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
3	PFHxS	1.0604411	106.0		3.094e3	3.90	3	8			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
4	PFOA	1.0449353	104.5		2.855e3	4.27	4	10			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
5	PFNA	1.0454728	104.5		2.155e3	4.60	5	11			1.001	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
6	PFOS	0.8330836	0.0307	83.3	3.477e2	4.66	6	12			0.999	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
7	13C3-PFBS	12.429798	0.00309	99.4	8.023e3	0.442	2.97	7	14		0.887	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
8	13C3-PFHpA	12.169251	0.0347	87.4	1.963e4	1.117	3.86	8	14		0.970	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
9	1802-PFHpS	12.415818	0.00651	99.3	7.611e3	0.420	3.98	9	14		1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
10	13C3-PFOA	11.535676	0.0206	92.3	3.312e4	2.782	4.27	10	15		1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
11	13C3-PFNA	11.744206	0.00294	94.0	1.113e4	0.846	4.60	11	16		1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
12	13C3-PFOS	12.546272	0.0291	100.4	1.013e4	0.941	4.66	12	17		1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
13	13C3-PFHpS	12.500000	0.00279	100.0	3.117e4	1.000	3.35	13	13		0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
14	13C3-PFHpS	12.500000	0.0182	100.0	1.824e4	1.000	3.98	14	14		0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
15	13C3-PFOA	12.500000	0.00622	100.0	1.290e4	1.000	4.27	15	15		0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
16	13C3-PFNA	12.500000	0.00486	100.0	1.400e4	1.000	4.60	16	16		0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
17	13C3-PFOS	12.500000	0.00433	100.0	1.072e4	1.000	4.66	17	17		0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
18	Total PFBS	0.8997441	0.00483					16				01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
19	Total PFHpS	0.90318119						19				01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
20	Total PFOA	1.0449353						20				01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO
21	Total PFOS	1.0654659	0.0307					21				01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00			NO



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

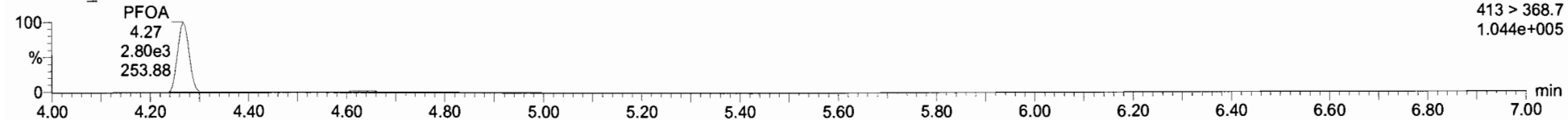
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_4, Date: 01-Mar-2017, Time: 15:34:43, ID: ST170301G1-3 PFC CS0 17C0121, Description: PFC CS0 17C0121 A

PFOA

170301G1_4

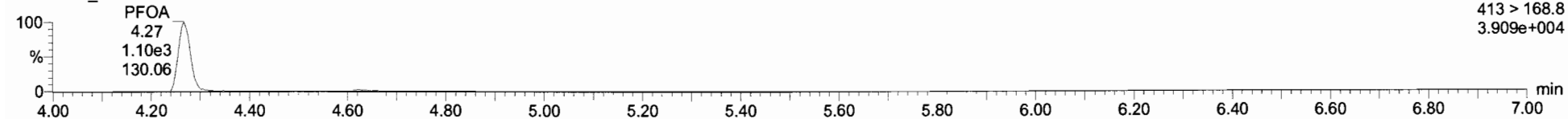
F5:MRM of 12 channels,ES-
413 > 368.7
1.044e+005



PFOA

170301G1_4

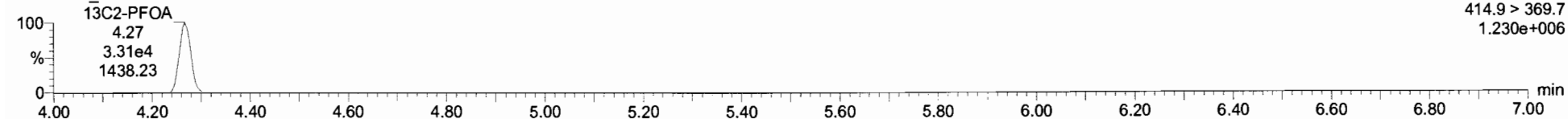
F5:MRM of 12 channels,ES-
413 > 168.8
3.909e+004



13C2-PFOA

170301G1_4

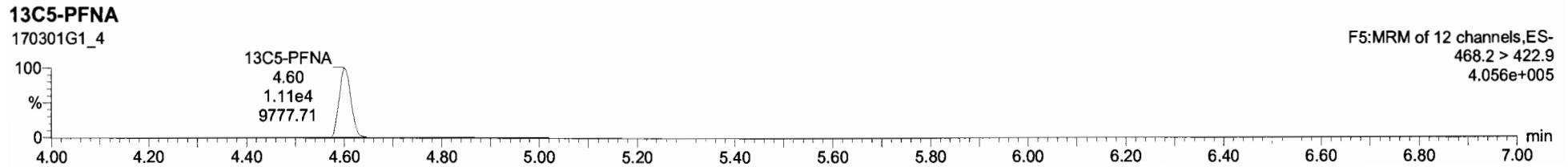
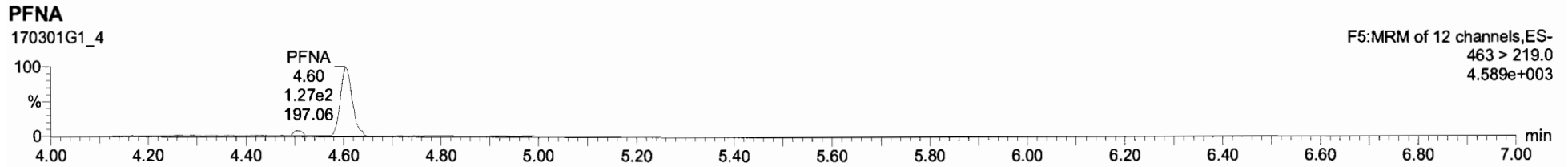
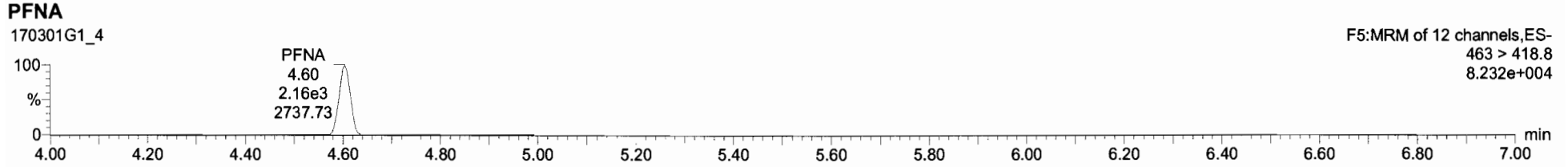
F5:MRM of 12 channels,ES-
414.9 > 369.7
1.230e+006



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

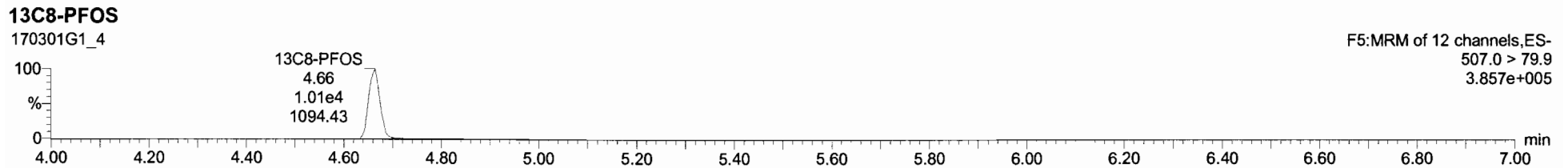
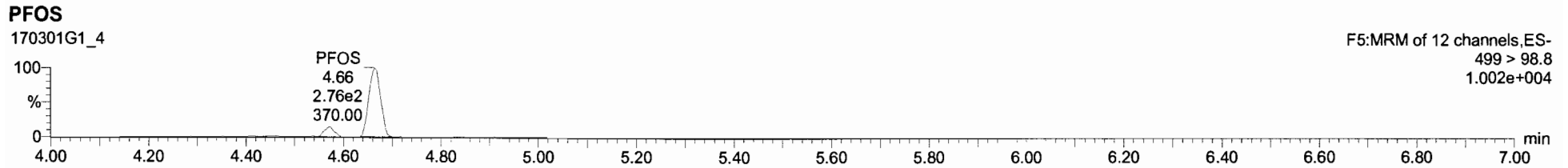
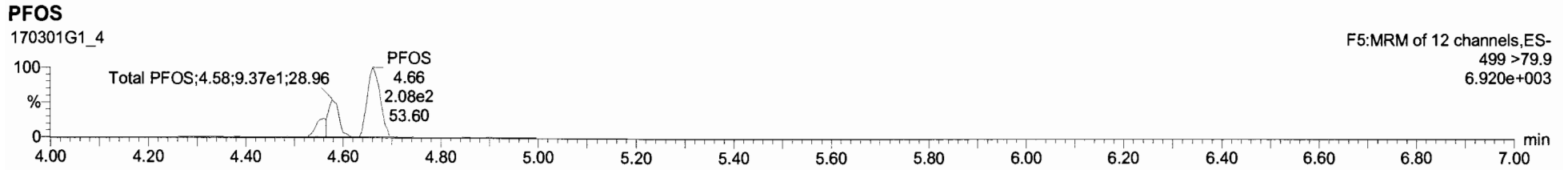
Name: 170301G1_4, Date: 01-Mar-2017, Time: 15:34:43, ID: ST170301G1-3 PFC CS0 17C0121, Description: PFC CS0 17C0121 A



Dataset: Untitled

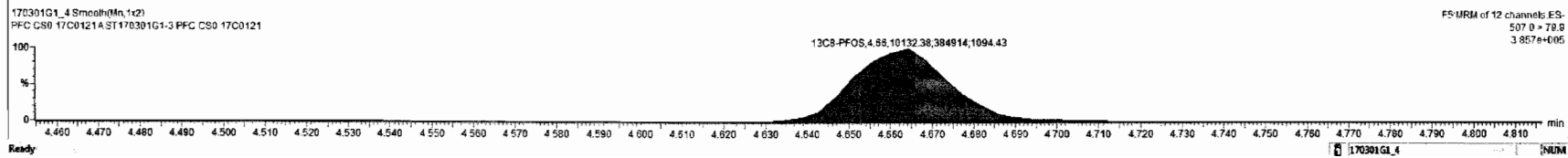
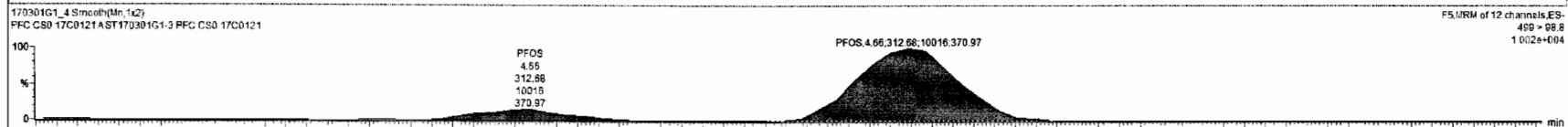
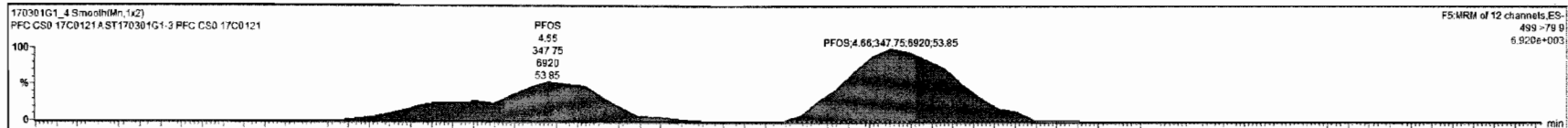
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_4, Date: 01-Mar-2017, Time: 15:34:43, ID: ST170301G1-3 PFC CS0 17C0121, Description: PFC CS0 17C0121 A



170301G1_4 - ST170301G1-3-PFC CS0 17C0121 - PFC CS0 17C0121A

#	Name	Conc	DL	%Rec	EMPC	Abn Resp	RRP	RT	#	SP	RA	Y/N	RRT	Acq Date	Acq Time	# Char/Noise	ID	Sample Year	Factor1	SW	Cal File	MDL
1	PFBS	0.8907441	0.00474	89.1		1.227e3		2.97	1	7	0.447	YES	1.000	01-Mar-17	15:34:43	292.845	ST170301G	PFC CS0 17C01...	1.0	1.00		NO
2	PFHpA	1.0610513		106.1		3.162e3		3.86	2	8			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
3	PFHxS	0.86984628		87.0		1.014e3		3.89	3	9			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
4	PFDA	1.0449353		104.5		2.805e3		4.27	4	10			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
5	PFNA	1.0454706		104.5		2.155e3		4.80	5	11			1.001	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
6	PFOS	0.6923339	0.00474	69.3		1.479e3		4.88	6	12			0.989	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
7	13C3-PFBS	12.429766	0.00309	99.4		8.023e3	0.442	2.97	7	14			0.887	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
8	13C4-PFHpA	12.168251	0.0347	97.4		1.983e4	1.117	3.86	8	14			0.970	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
9	18O2-PFHpS	12.415818	0.00551	99.3		7.611e3	0.420	3.88	9	14			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
10	13C2-PFDA	11.535676	0.0206	92.3		3.312e4	2.782	4.27	10	15			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
11	13C5-PFNA	11.744206	0.00284	94.0		1.113e4	0.848	4.60	11	16			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
12	13C8-PFOS	12.546272	0.0281	100.4		1.013e4	0.841	4.66	12	17			1.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
13	13C5-PFHpA	12.500000	0.00279	100.0		3.117e4	1.000	3.35	13	13			0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
14	13C3-PFHpS	12.500000	0.0182	100.0		1.824e4	1.000	3.88	14	14			0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
15	13C8-PFDA	12.500000	0.00622	100.0		1.280e4	1.000	4.27	15	15			0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
16	13C8-PFNA	12.500000	0.00486	100.0		1.400e4	1.000	4.60	16	16			0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.00433	100.0		1.072e4	1.000	4.86	17	17			0.000	01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
18	Total PFBS	0.8907441	0.00483						18					01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
19	Total PFHpS	0.9031819							19					01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
20	Total PFDA	1.0449353							20					01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO
21	Total PFOS	1.0654659	0.0307						21					01-Mar-17	15:34:43		ST170301G	PFC CS0 17C01...	1.0	1.00		NO



Dataset: Untitled

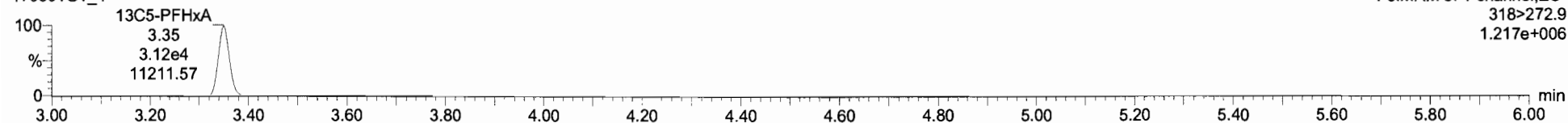
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_4, Date: 01-Mar-2017, Time: 15:34:43, ID: ST170301G1-3 PFC CS0 17C0121, Description: PFC CS0 17C0121 A

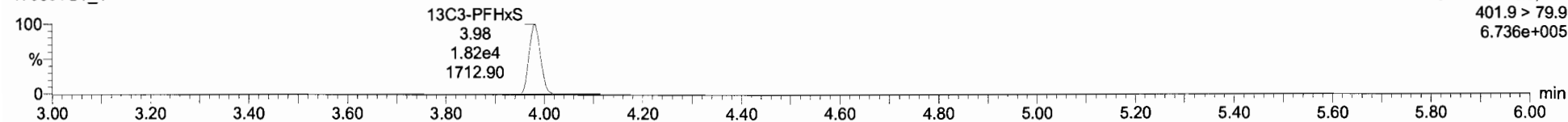
13C5-PFHxA

170301G1_4



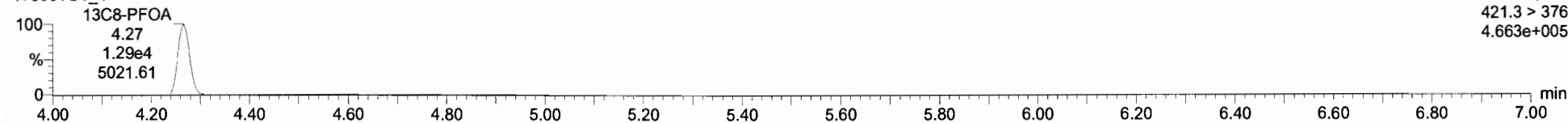
13C3-PFHxS

170301G1_4



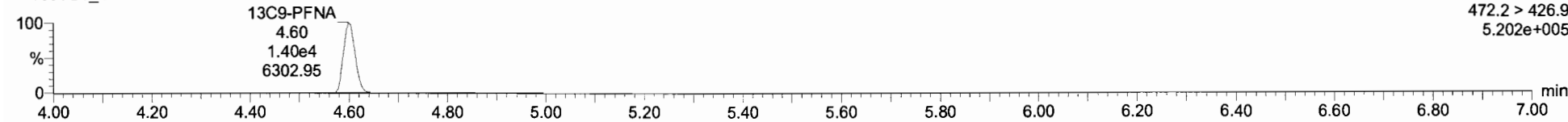
13C8-PFOA

170301G1_4



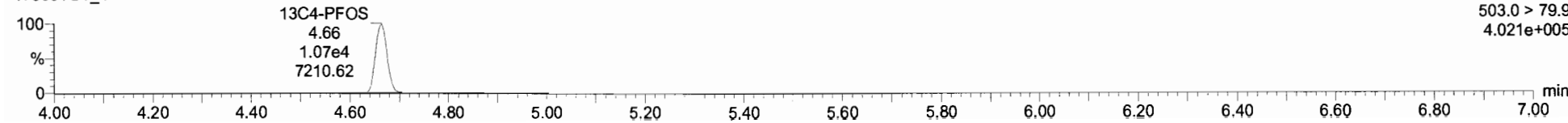
13C9-PFNA

170301G1_4



13C4-PFOS

170301G1_4

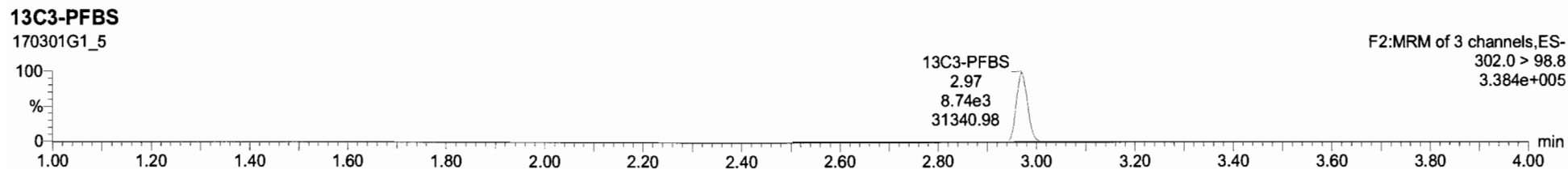
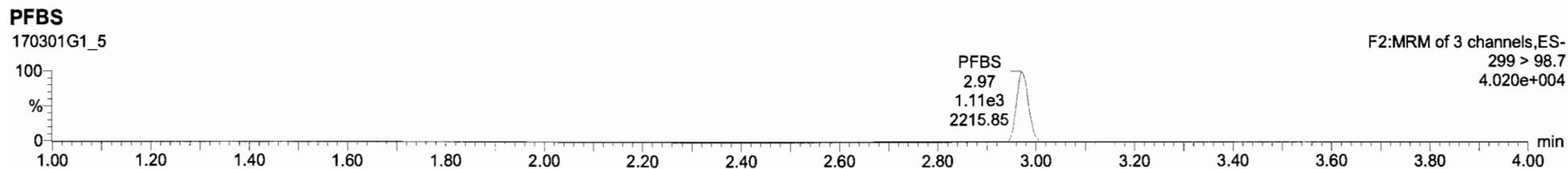
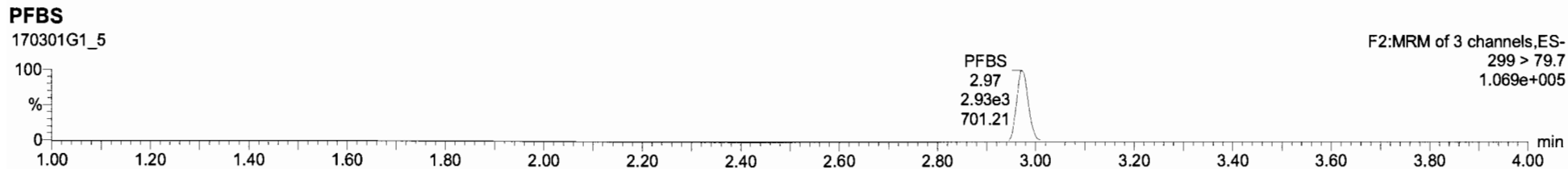


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_5, Date: 01-Mar-2017, Time: 15:47:17, ID: ST170301G1-4 PFC CS1 17C0122, Description: PFC CS1 17C0122 A

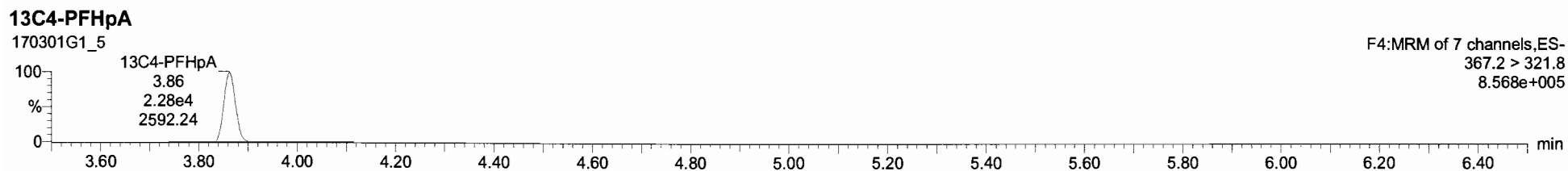
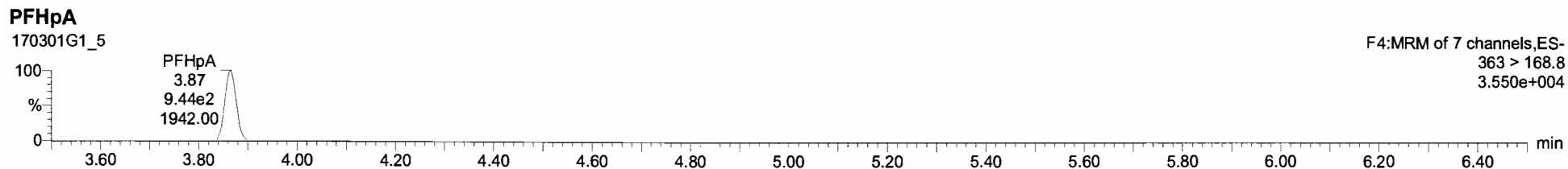
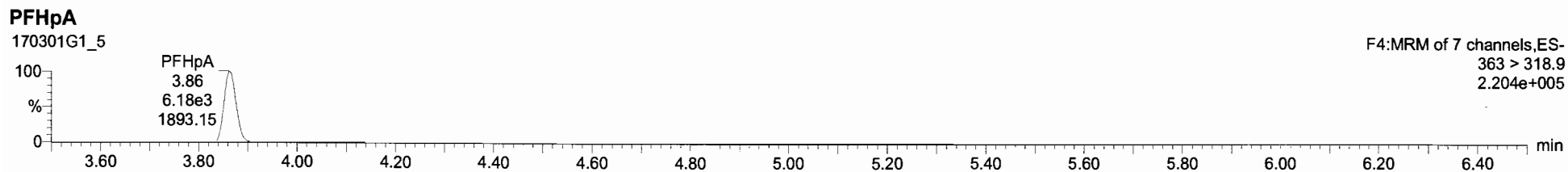


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_5, Date: 01-Mar-2017, Time: 15:47:17, ID: ST170301G1-4 PFC CS1 17C0122, Description: PFC CS1 17C0122 A

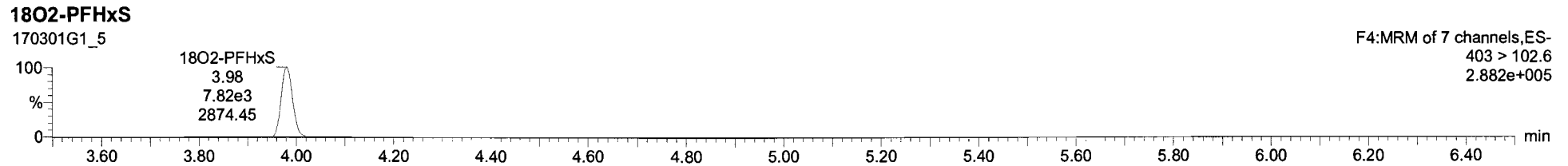
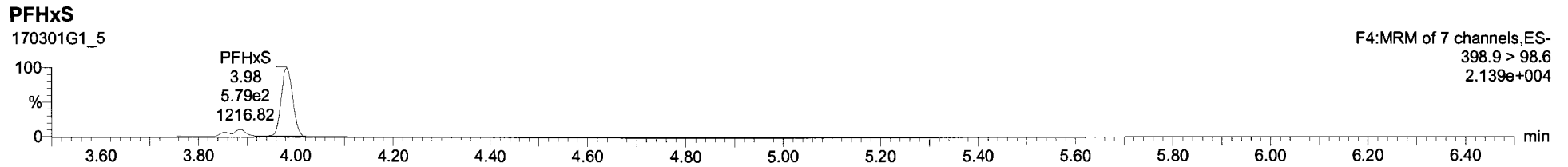
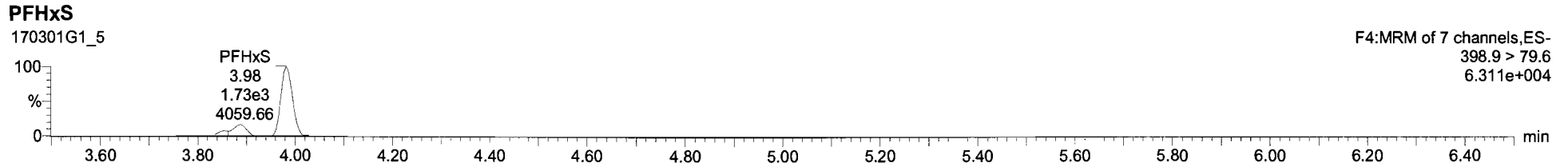


Dataset: Untitled

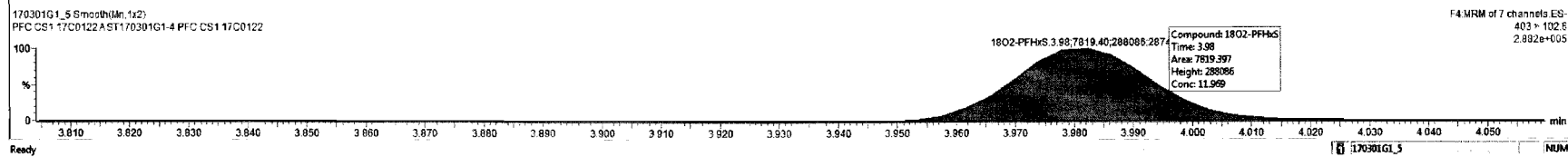
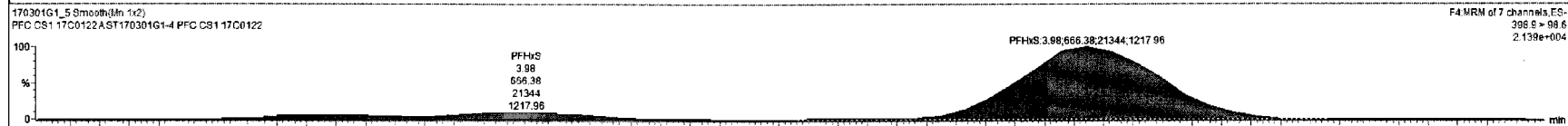
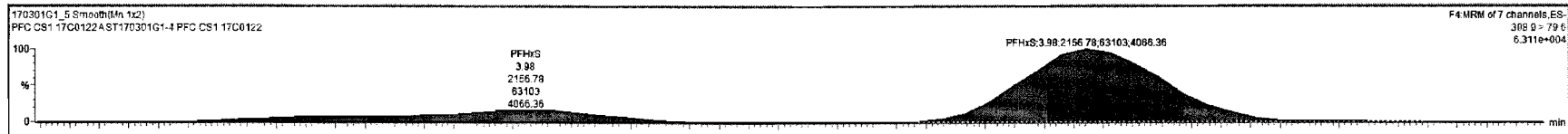
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_5, Date: 01-Mar-2017, Time: 15:47:17, ID: ST170301G1-4 PFC CS1 17C0122, Description: PFC CS1 17C0122 A



Name	Conc	DI	%Rec	EMPC	Abs Resp	RRF	RT	#	IS	RA	Y/N	RTI	Acq Date	Acq Time	# Chr	Notes	D	Sample Text	Factor	SVI	Cal File	>MOL
1 PFBS	1.9506772	0.0106	97.5		2.933e3	2.97	1	7	0.380	YES	1.001	01-Mar-17	15:47:17	18.119		ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
2 PFHpA	1.8234467		91.2		6.178e3	3.86	2	8			1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
3 PFHxS	1.9525903		94.8		2.157e3	3.98	3	9			1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
4 PFOA	1.8649281		93.2		5.142e3	4.27	4	10			1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
5 PFNA	1.9531600		97.7		4.211e3	4.60	5	11			1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
6 PFOS	2.0497297	0.0136	102.5		7.669e2	4.66	6	12			1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		YES	
7 13C3-PFBS	12.707219	0.00103	101.7		8.741e3	0.442	2.97	7	14		0.887	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
8 13C4-PFHpA	13.112636	0.0125	104.9		2.278e4	1.117	3.86	8	14		0.970	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
9 18O2-PFHxS	11.869466	0.0101	95.8		7.819e3	0.420	3.98	9	14		1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
10 13C2-PFOA	11.555566	0.00239	92.4		3.561e4	2.782	4.27	10	15		1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
11 13C5-PFNA	11.791860	0.00143	94.3		1.206e4	0.646	4.60	11	16		1.001	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
12 13C8-PFOS	10.761882	0.00712	86.3		9.012e3	0.941	4.66	12	17		1.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
13 13C3-PFHxS	12.500000	0.00390	100.0		3.165e4	1.000	3.35	13	13		0.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
14 13C3-PFHxS	12.500000	0.000658	100.0		1.944e4	1.000	3.89	14	14		0.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
15 13C8-PFOA	12.500000	0.00106	100.0		1.385e4	1.000	4.27	15	15		0.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
16 13C8-PFNA	12.500000	0.000777	100.0		1.511e4	1.000	4.60	16	16		0.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
17 13C4-PFOS	12.500000	0.00941	100.0		1.110e4	1.000	4.66	17	17		0.000	01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
18 Total PFBS	1.9506772	0.0117						18				01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
19 Total PFHxS	2.1021049							19				01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
20 Total PFOA	1.8649281							20				01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	
21 Total PFOS	2.7240372	0.0136						21				01-Mar-17	15:47:17			ST170301G...	PFC CS1 17C01...	1.0	1.00		NO	

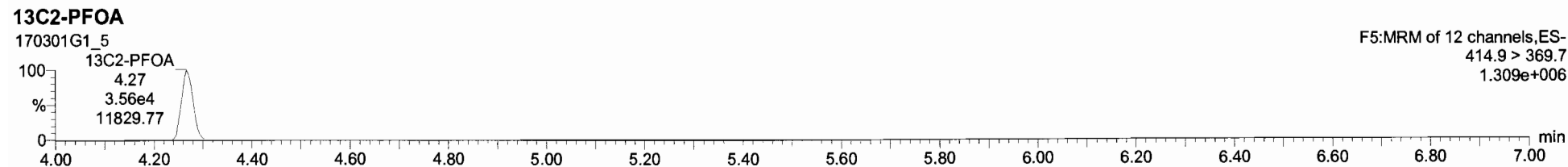
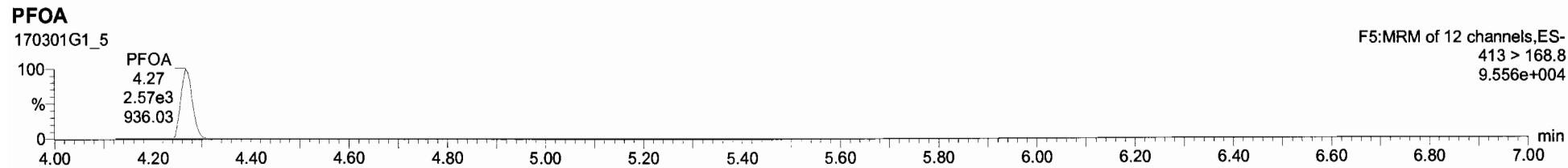
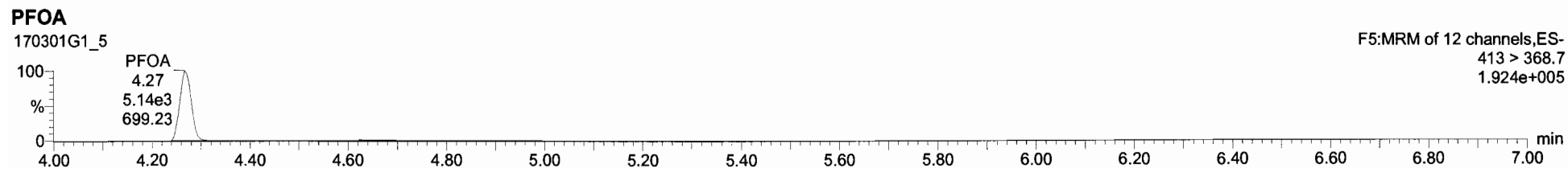


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_5, Date: 01-Mar-2017, Time: 15:47:17, ID: ST170301G1-4 PFC CS1 17C0122, Description: PFC CS1 17C0122 A



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

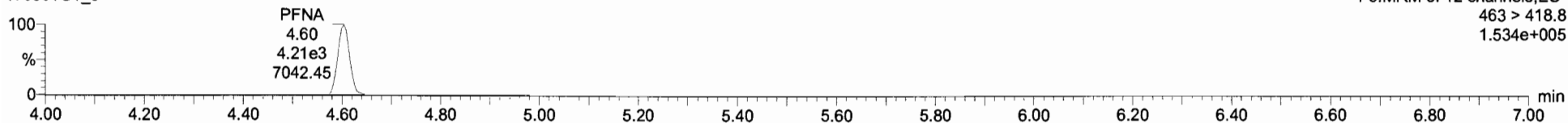
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_5, Date: 01-Mar-2017, Time: 15:47:17, ID: ST170301G1-4 PFC CS1 17C0122, Description: PFC CS1 17C0122 A

PFNA

170301G1_5

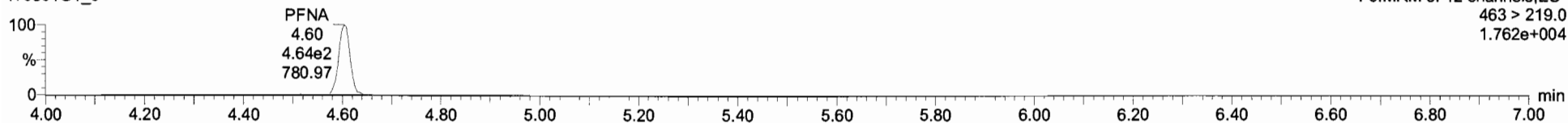
F5:MRM of 12 channels,ES-
463 > 418.8
1.534e+005



PFNA

170301G1_5

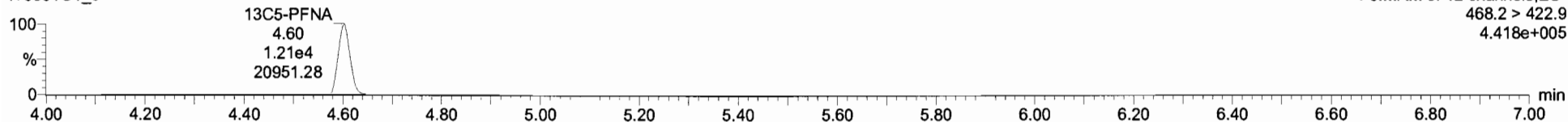
F5:MRM of 12 channels,ES-
463 > 219.0
1.762e+004



13C5-PFNA

170301G1_5

F5:MRM of 12 channels,ES-
468.2 > 422.9
4.418e+005



Dataset: Untitled

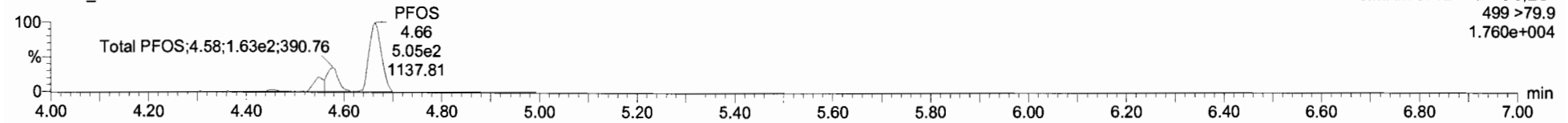
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_5, Date: 01-Mar-2017, Time: 15:47:17, ID: ST170301G1-4 PFC CS1 17C0122, Description: PFC CS1 17C0122 A

PFOS

170301G1_5

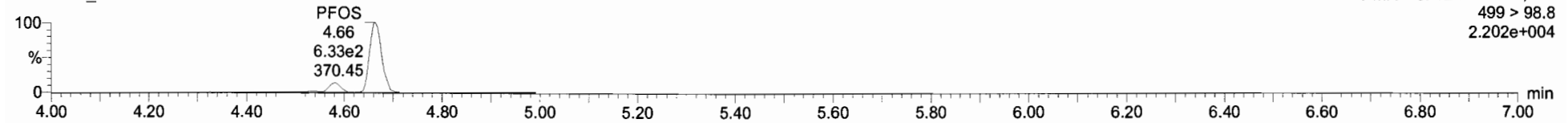
F5:MRM of 12 channels,ES-
499 >79.9
1.760e+004



PFOS

170301G1_5

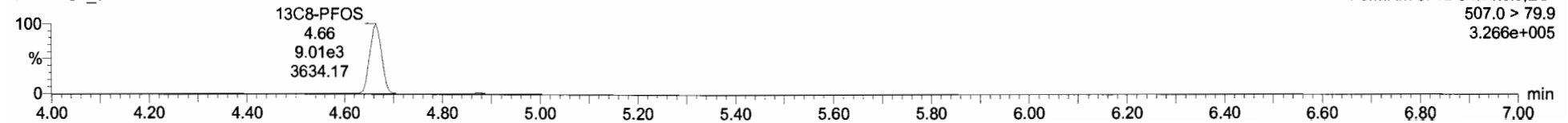
F5:MRM of 12 channels,ES-
499 > 98.8
2.202e+004



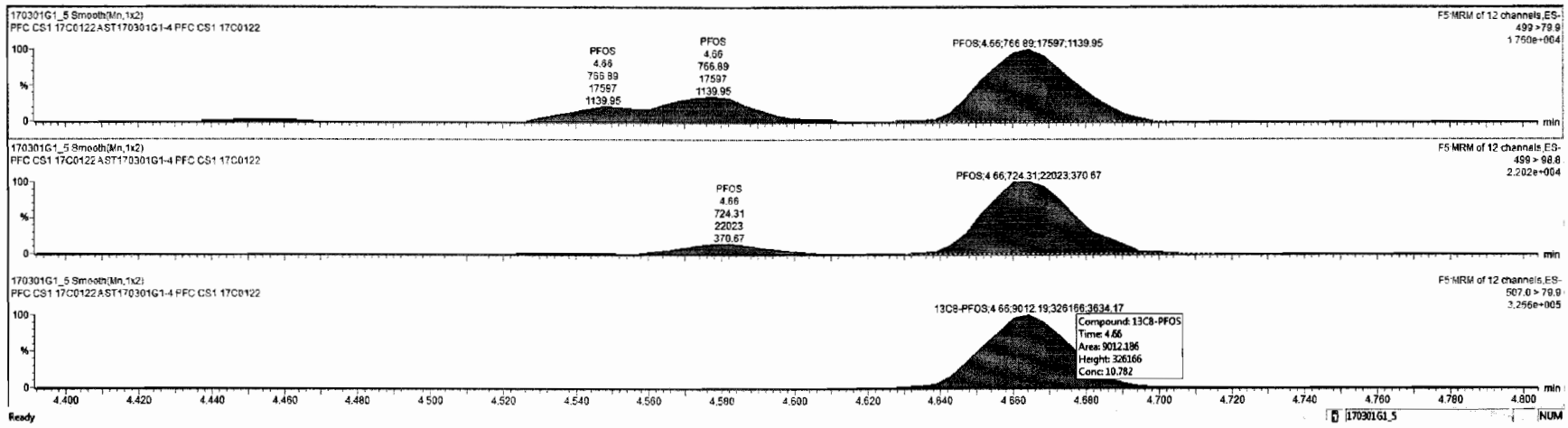
13C8-PFOS

170301G1_5

F5:MRM of 12 channels,ES-
507.0 > 79.9
3.266e+005



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	SR	RA	Y/N	RRT	Acq Date	Acq Time	1 st Chr Noise	ID	Sample Text	Factor1	SVN	Cal File	MRSL	
1 PFBS	1.9606772	0.0106	97.5		2.933e3		2.07	1	7	0.380	YES	1.001	01-Mar-17	15:47:17	18.110	ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
2 PFHpA	1.8234407		91.2		6.178e3		3.06	2	8			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
3 PFbS	1.8925999		94.6		2.157e3		3.98	3	9			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
4 PFOA	1.8640261		93.2		5.143e3		4.27	4	10			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
5 PFNA	1.9531600		97.7		4.211e3		4.60	5	11			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
6 PFOS	2.0407207	0.0136	102.6		7.869e2		4.66	6	12			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		YES	
7 13C1-PFBS	12.707219	0.00103	101.7		8.741e3	0.442	2.97	7	14			0.887	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
8 13C4-PFHpA	13.112636	0.0125	104.9		2.278e4	1.117	3.86	8	14			0.970	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
9 18O2-PFOs	11.969406	0.0101	95.8		7.819e3	0.420	3.98	9	14			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
10 13C2-PFOA	11.555566	0.00239	92.4		3.561e4	2.782	4.27	10	15			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
11 13C5-PFNA	11.791880	0.00143	94.3		1.206e4	0.346	4.60	11	16			1.001	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
12 13C8-PFOS	10.781802	0.00712	86.3		9.012e3	0.941	4.66	12	17			1.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
13 13C5-PFHexA	12.500900	0.00390	100.0		3.165e4	1.000	3.35	13	13			0.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
14 13C3-PFOs	12.500900	0.00090	100.0		1.944e4	1.000	3.96	14	14			0.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
15 13C8-PFOA	12.500900	0.00106	100.0		1.380e4	1.000	4.27	15	15			0.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
16 13C5-PFNA	12.500900	0.00077	100.0		1.511e4	1.000	4.60	16	16			0.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
17 13C4-PFOS	12.500900	0.00841	100.0		1.110e4	1.000	4.66	17	17			0.000	01-Mar-17	15:47:17		ST170301G...	PFC CS1 17C0122A	1.0	1.00		NO	
18 Total PFBS	1.9606772	0.0117																				NO
19 Total PFHexS	2.1021049																					NO
20 Total PFOA	1.8640261																					NO
21 Total PFOS	2.7240372	0.0136																				NO



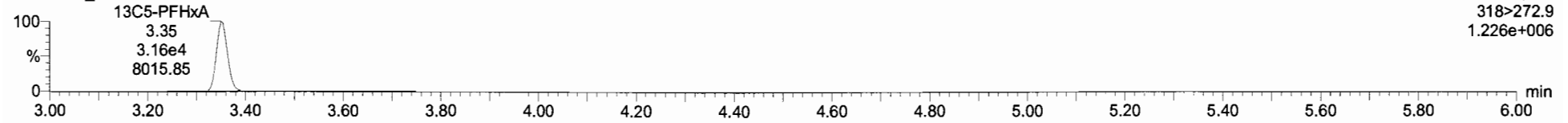
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_5, Date: 01-Mar-2017, Time: 15:47:17, ID: ST170301G1-4 PFC CS1 17C0122, Description: PFC CS1 17C0122 A

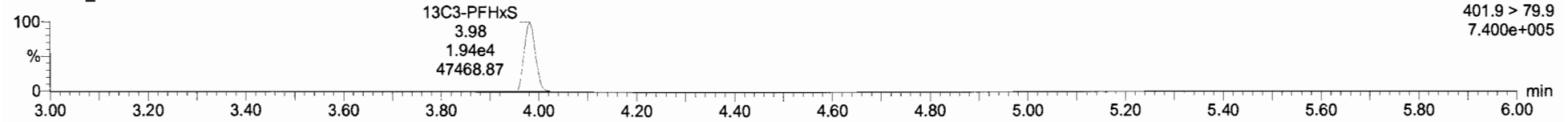
13C5-PFHxA

170301G1_5



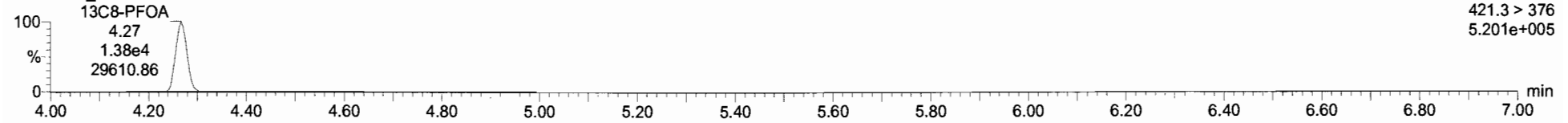
13C3-PFHxS

170301G1_5



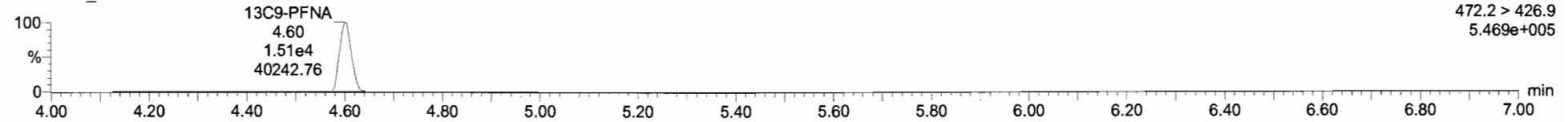
13C8-PFOA

170301G1_5



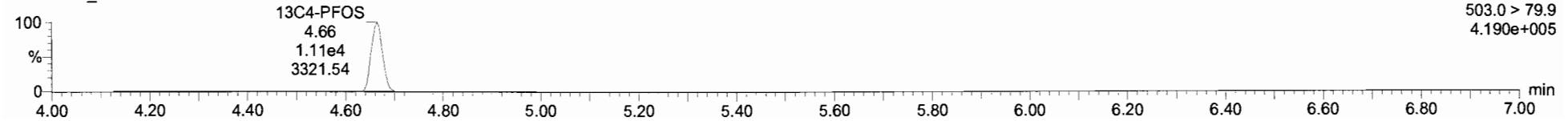
13C9-PFNA

170301G1_5



13C4-PFOS

170301G1_5



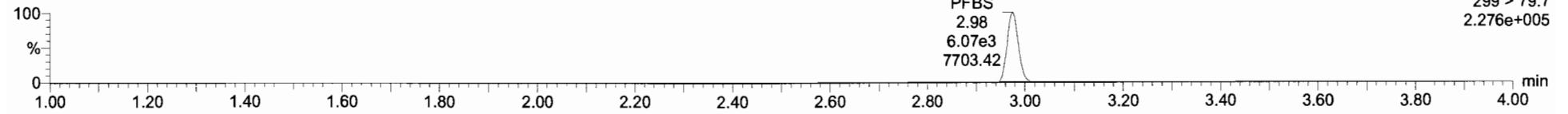
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_6, Date: 01-Mar-2017, Time: 15:59:50, ID: ST170301G1-5 PFC CS2 17C0123, Description: PFC CS2 17C0123 A

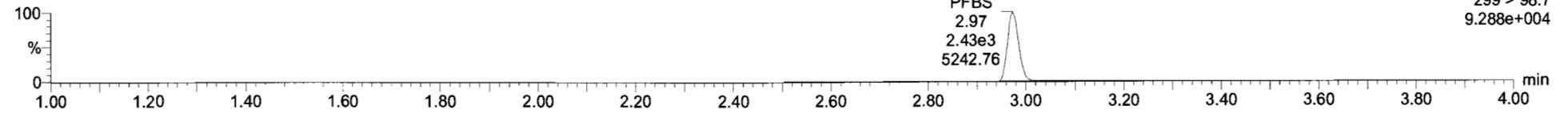
PFBS

170301G1_6



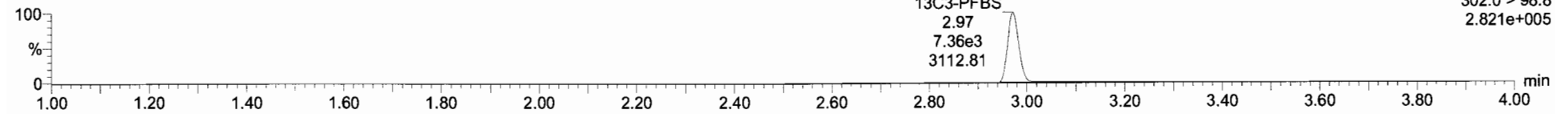
PFBS

170301G1_6



13C3-PFBS

170301G1_6

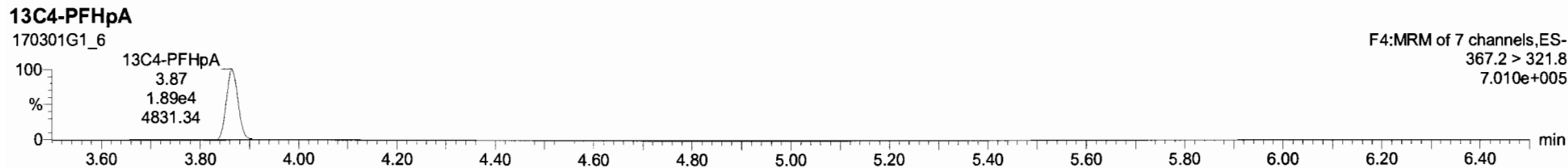
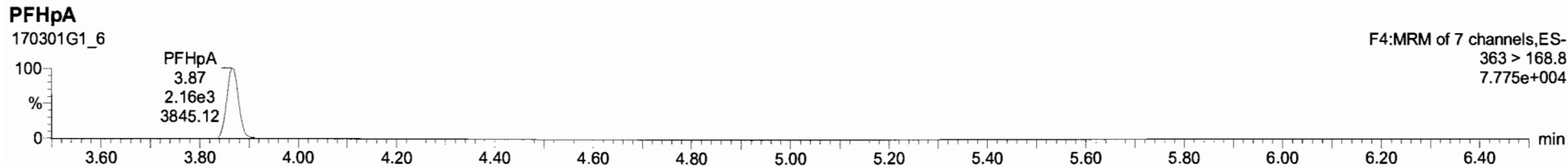
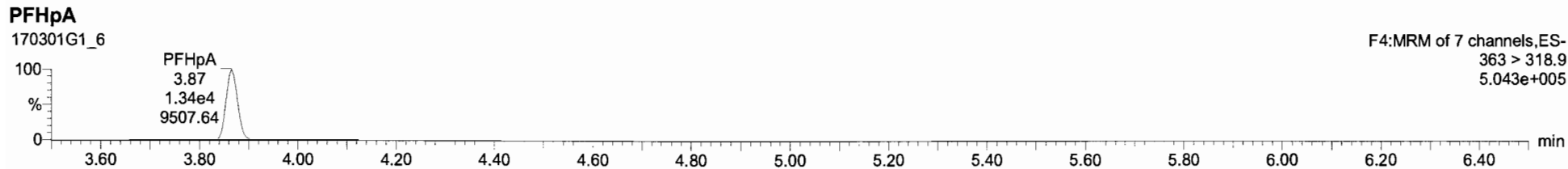


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

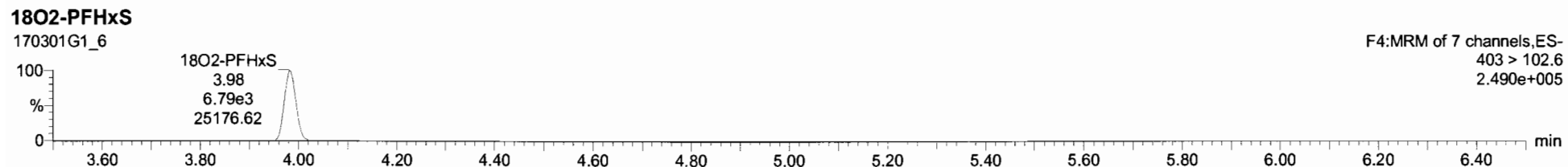
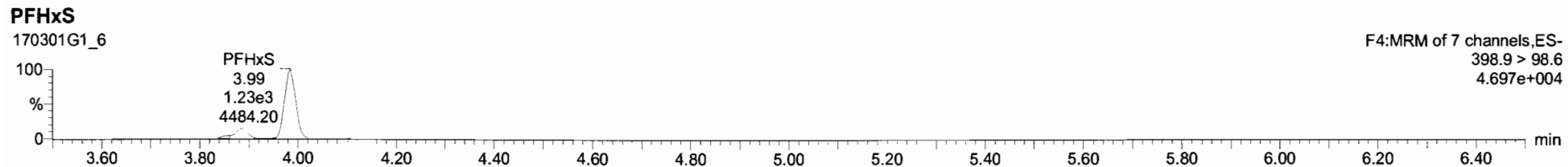
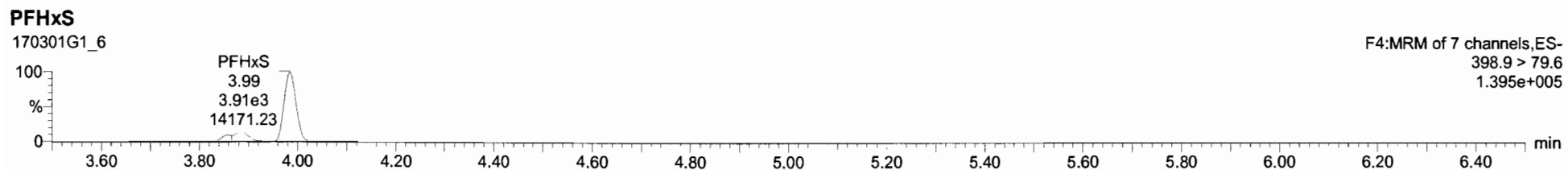
Name: 170301G1_6, Date: 01-Mar-2017, Time: 15:59:50, ID: ST170301G1-5 PFC CS2 17C0123, Description: PFC CS2 17C0123 A



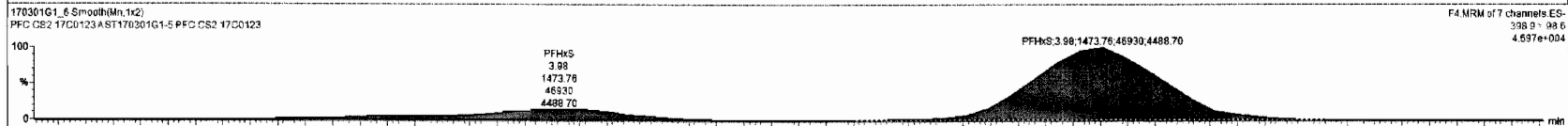
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_6, Date: 01-Mar-2017, Time: 15:59:50, ID: ST170301G1-5 PFC CS2 17C0123, Description: PFC CS2 17C0123 A



Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	Ch Name	D	Sample Tm	Factor	SW	Cal File	MDL
1 PFBS	4.7849106	0.00558	95.7		6.96843		3.98	1	7	0.491	YES	1.001	01-Mar-17	15:59:50	17.627	ST170301G	PFC CS2 17C01	1.0	1.00		NO
2 PFHpA	4.7911338	95.8			1.33944		3.87	2	8			1.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
3 PFHxS	4.8018933	99.8			4.30943		3.98	3	9			1.001	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		YES
4 PFOA	4.8117978	92.2			1.18264		4.27	4	10			1.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		YES
5 PFNA	4.9225520	98.5			9.48943		4.60	5	11			1.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		YES
6 PFOS	4.7006570	0.0140	94.0		1.73043		4.67	6	12			1.001	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		YES
7 13C3-PFBS	13.078866	0.0111	104.6		7.36243	0.442	2.97	7	14			0.886	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
8 13C4-PFHpA	13.331342	0.00701	106.7		1.89544	1.117	3.87	8	14			0.970	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
9 18O2-PFHxS	12.708681	0.00127	101.7		6.79443	0.420	3.98	9	14			0.999	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
10 13C2-PFOA	13.080296	0.0128	104.6		3.36944	2.782	4.27	10	15			1.001	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
11 13C5-PFNA	12.931109	0.00261	103.4		1.10544	0.846	4.60	11	16			1.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
12 13C2-PFOS	11.959294	0.00209	95.7		8.84143	0.941	4.68	12	17			0.969	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
13 13C5-PFNA	12.590000	0.00518	100.0		2.80444	1.000	3.35	13	13			0.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
14 13C2-PFHxS	12.590000	0.00832	100.0		1.59144	1.000	3.98	14	14			0.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
15 13C4-PFOA	12.590000	0.00379	100.0		1.15744	1.000	4.27	15	15			0.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
16 13C5-PFNA	12.590000	0.00626	100.0		1.26244	1.000	4.60	16	16			0.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
17 13C4-PFOS	12.590000	0.00365	100.0		9.81643	1.000	4.67	17	17			0.000	01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
18 Total PFBS	4.8033281	0.00578					3.98						01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
19 Total PFHxS	5.7412723						3.98						01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
20 Total PFOA	4.8117978						4.27						01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO
21 Total PFOS	6.0654645	0.0148					4.67						01-Mar-17	15:59:50		ST170301G	PFC CS2 17C01	1.0	1.00		NO



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

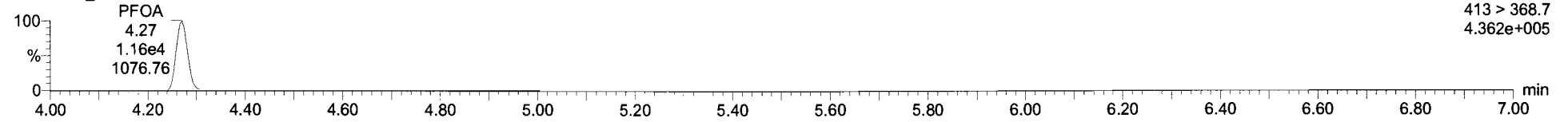
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_6, Date: 01-Mar-2017, Time: 15:59:50, ID: ST170301G1-5 PFC CS2 17C0123, Description: PFC CS2 17C0123 A

PFOA

170301G1_6

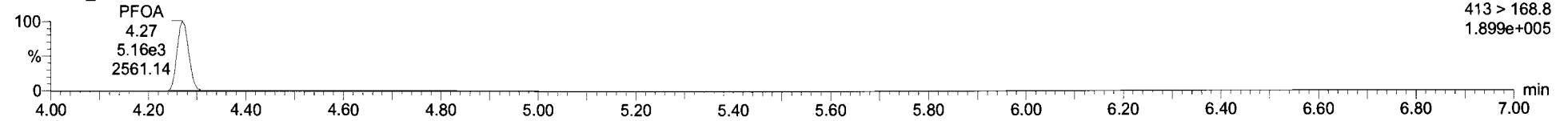
F5:MRM of 12 channels,ES-
413 > 368.7
4.362e+005



PFOA

170301G1_6

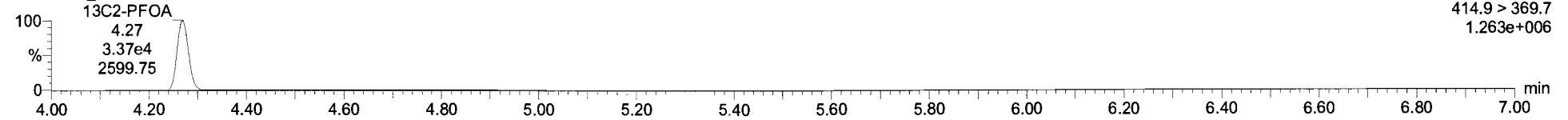
F5:MRM of 12 channels,ES-
413 > 168.8
1.899e+005



13C2-PFOA

170301G1_6

F5:MRM of 12 channels,ES-
414.9 > 369.7
1.263e+006



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

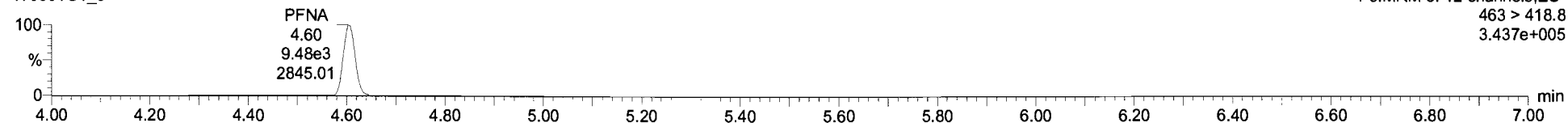
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_6, Date: 01-Mar-2017, Time: 15:59:50, ID: ST170301G1-5 PFC CS2 17C0123, Description: PFC CS2 17C0123 A

PFNA

170301G1_6

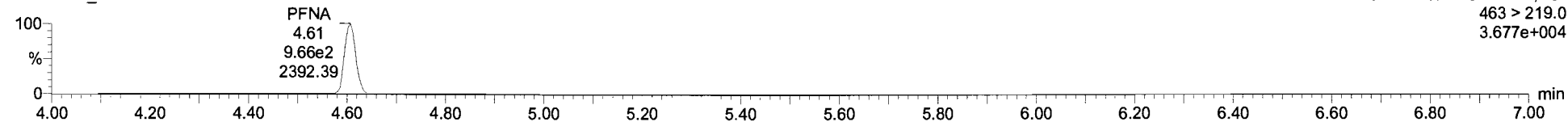
F5:MRM of 12 channels,ES-
463 > 418.8
3.437e+005



PFNA

170301G1_6

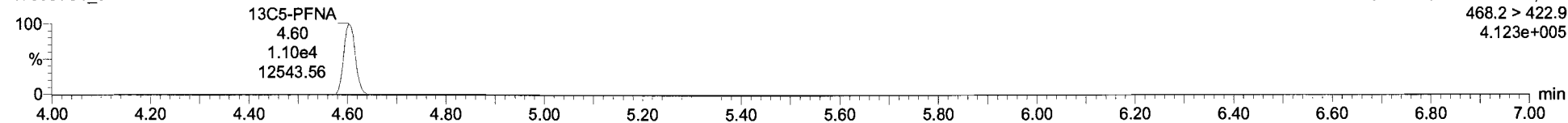
F5:MRM of 12 channels,ES-
463 > 219.0
3.677e+004



13C5-PFNA

170301G1_6

F5:MRM of 12 channels,ES-
468.2 > 422.9
4.123e+005



Dataset: Untitled

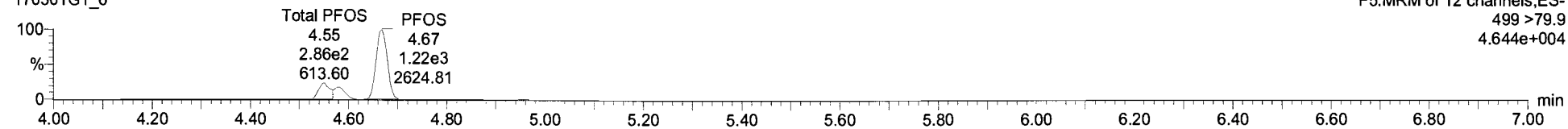
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_6, Date: 01-Mar-2017, Time: 15:59:50, ID: ST170301G1-5 PFC CS2 17C0123, Description: PFC CS2 17C0123 A

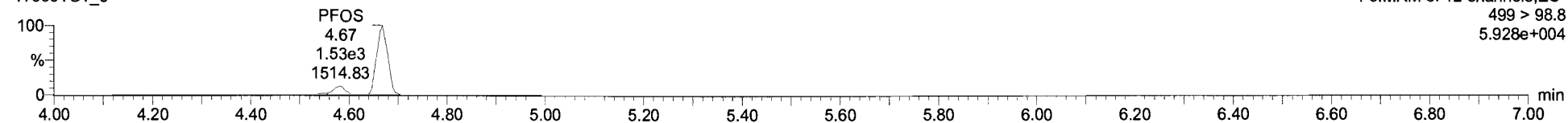
PFOS

170301G1_6



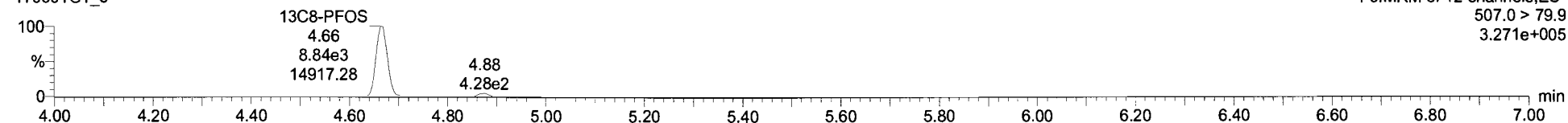
PFOS

170301G1_6



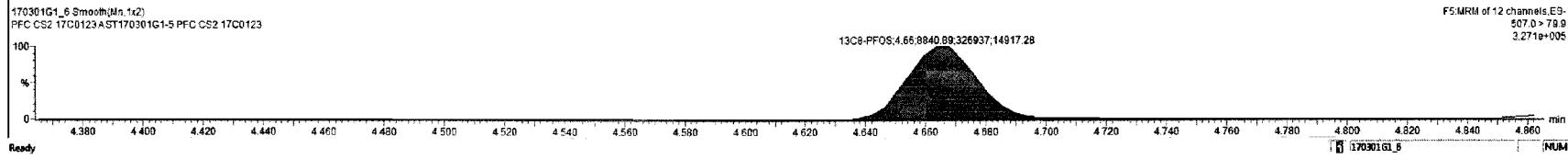
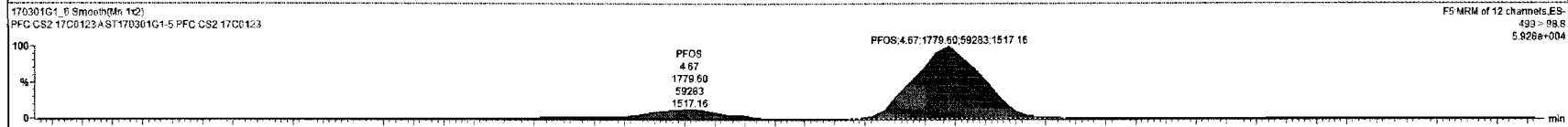
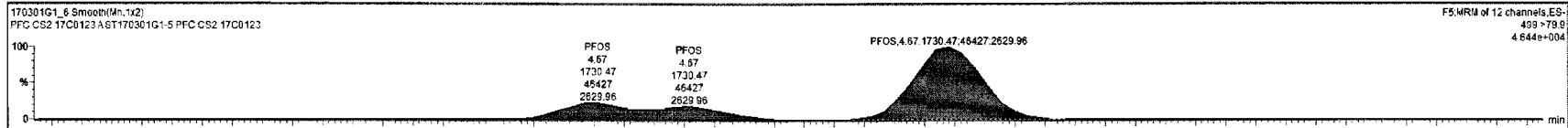
13C8-PFOS

170301G1_6





Name	Comp	DL	MRbc	EMPC	Area Resp	RRF	RT	#	SA	RA	Y/N	RRF	Ass Date	Acq Time	1 st Ch Noise	ID	Sample Test	Factor1	SN	Cal File	WCOL
PFBS	4.7649106	0.00550	95.7		6.06e3		2.99	1	7	0.401	YES	1.001	01-Mar-17	15:59:50	17.667	ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
PFHpA	4.7911338		95.8		1.33e4		3.87	2	8			1.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
PFHxS	4.9818933		99.6		4.80e3		3.98	3	9			1.001	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		YES
PFOA	4.6117978		92.2		1.182e4		4.27	4	10			1.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		YES
PFNA	4.9225520		98.5		9.49e3		4.60	5	11			1.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		YES
PFCs	7.7002970	0.0140	94.6		7.70e3		4.87	6	12			1.001	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		YES
13C3-PFBS	13.0789065	0.0111	104.6		7.362e3	0.442	2.97	7	14			0.886	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C4-PFHpA	13.331342	0.00701	106.7		1.895e4	1.117	3.87	8	14			0.570	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
18O2-PFHxS	12.708601	0.00127	101.7		6.794e3	0.420	3.98	9	14			0.999	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C4-PFOA	13.080296	0.0128	104.6		3.369e4	2.782	4.27	10	15			1.001	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C5-PFNA	12.931109	0.00281	103.4		1.105e4	0.646	4.60	11	16			1.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C6-PFOS	11.959294	0.00200	95.7		8.841e3	0.941	4.66	12	17			0.999	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C5-PFHxA	12.500000	0.00518	100.0		2.804e4	1.000	3.35	13	13			0.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C3-PFHxS	12.500000	0.00832	100.0		1.591e4	1.000	3.98	14	14			0.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C6-PFOA	12.500000	0.00379	100.0		1.157e4	1.000	4.27	15	15			0.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C4-PFNA	12.500000	0.00626	100.0		1.282e4	1.000	4.60	16	16			0.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
13C4-PFOS	12.500000	0.00365	100.0		9.816e3	1.000	4.67	17	17			0.000	01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
Total PFBS	4.8033281	0.00578						18					01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
Total PFHxS	5.7412723							19					01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
Total PFOA	4.6117978							20					01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO
Total PFOS	6.0854645	0.0140						21					01-Mar-17	15:59:50		ST170301G...	PFC CS2 17C01...	1.0	1.00		NO



Dataset: Untitled

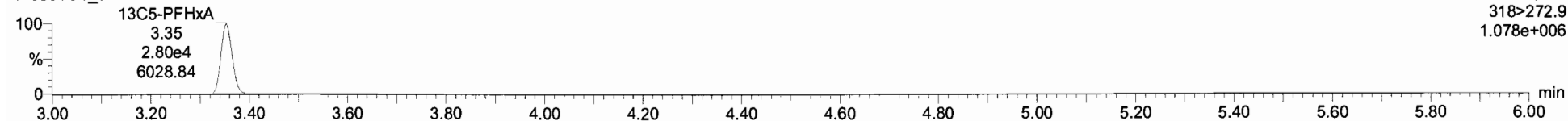
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_6, Date: 01-Mar-2017, Time: 15:59:50, ID: ST170301G1-5 PFC CS2 17C0123, Description: PFC CS2 17C0123 A

13C5-PFHxA

170301G1_6

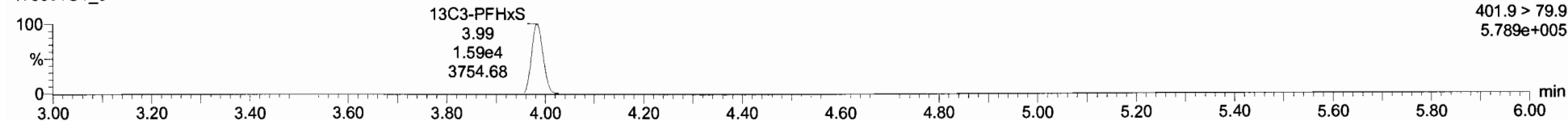
F3:MRM of 1 channel,ES-
318>272.9
1.078e+006



13C3-PFHxS

170301G1_6

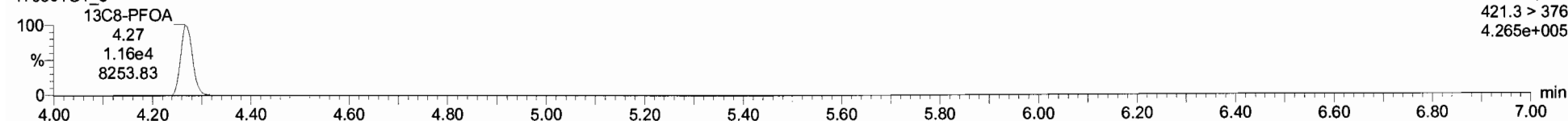
F4:MRM of 7 channels,ES-
401.9 > 79.9
5.789e+005



13C8-PFOA

170301G1_6

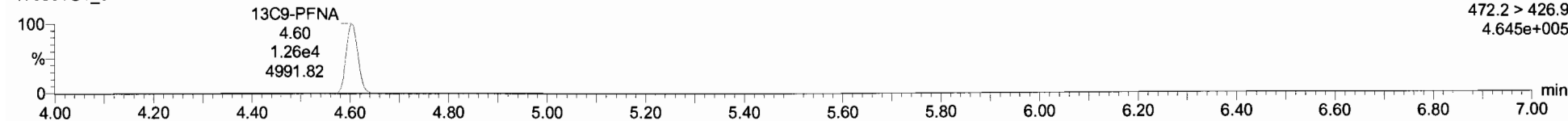
F5:MRM of 12 channels,ES-
421.3 > 376
4.265e+005



13C9-PFNA

170301G1_6

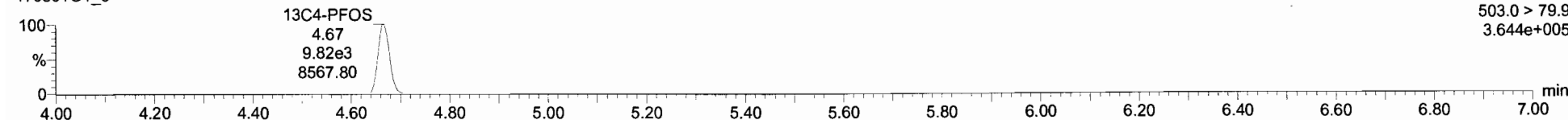
F5:MRM of 12 channels,ES-
472.2 > 426.9
4.645e+005



13C4-PFOS

170301G1_6

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.644e+005



Dataset: Untitled

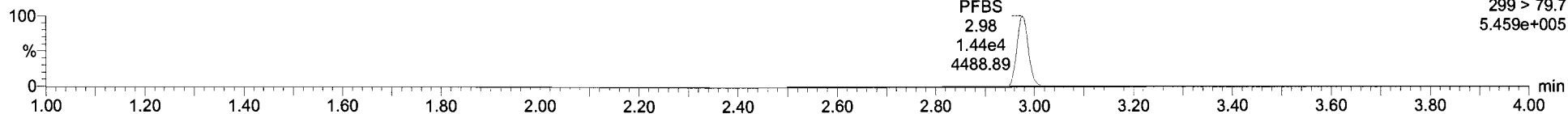
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_7, Date: 01-Mar-2017, Time: 16:12:23, ID: ST170301G1-6 PFC CS3 17C0124, Description: PFC CS3 17C0124 A

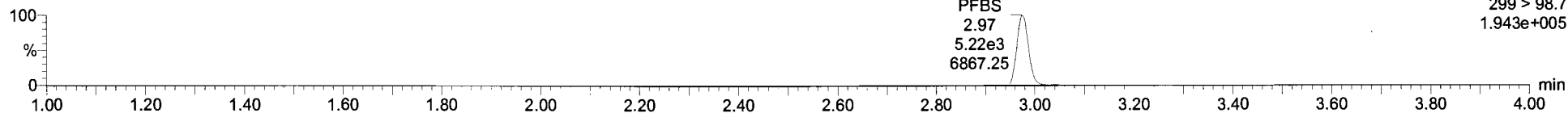
PFBS

170301G1_7



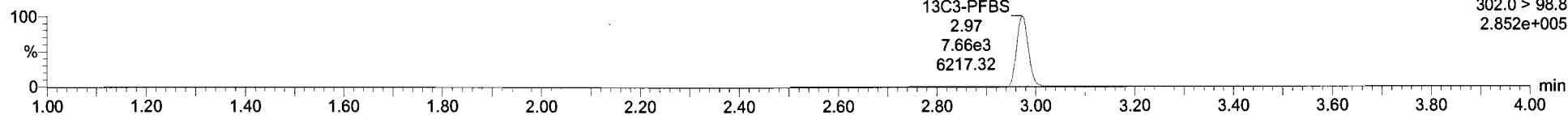
PFBS

170301G1_7



13C3-PFBS

170301G1_7



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

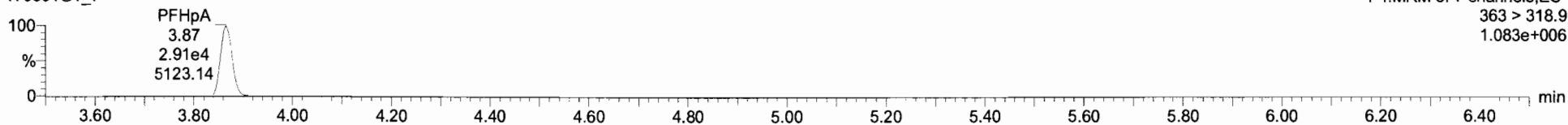
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_7, Date: 01-Mar-2017, Time: 16:12:23, ID: ST170301G1-6 PFC CS3 17C0124, Description: PFC CS3 17C0124 A

PFHpA

170301G1_7

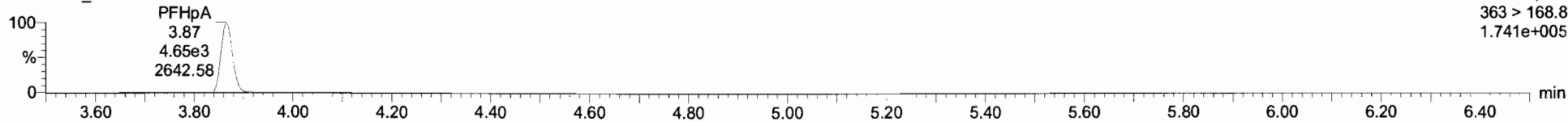
F4:MRM of 7 channels,ES-
363 > 318.9
1.083e+006



PFHpA

170301G1_7

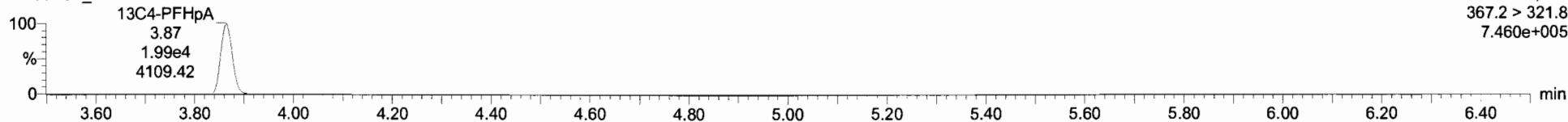
F4:MRM of 7 channels,ES-
363 > 168.8
1.741e+005



13C4-PFHpA

170301G1_7

F4:MRM of 7 channels,ES-
367.2 > 321.8
7.460e+005

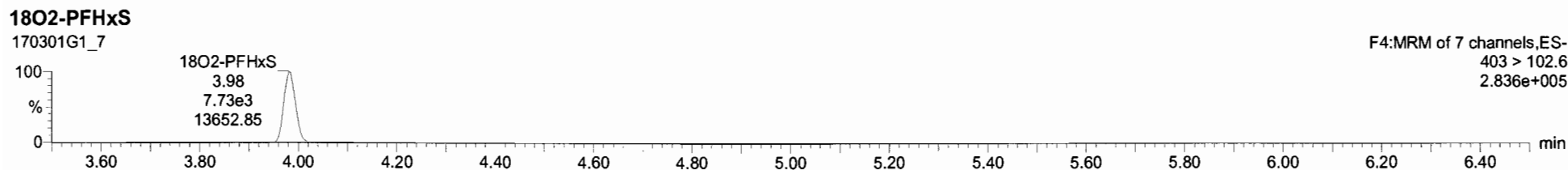
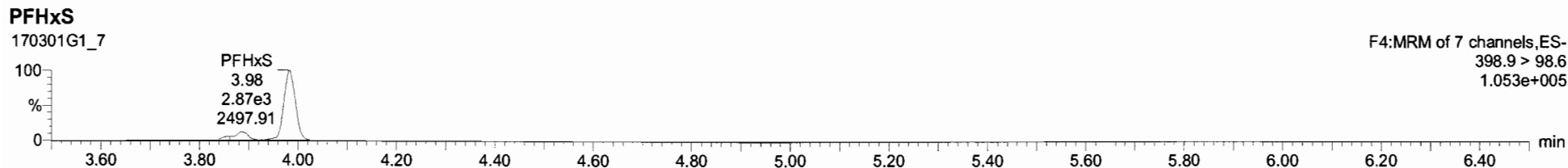
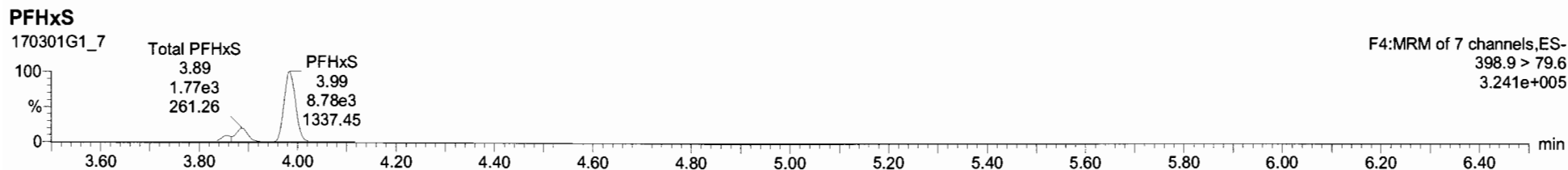


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

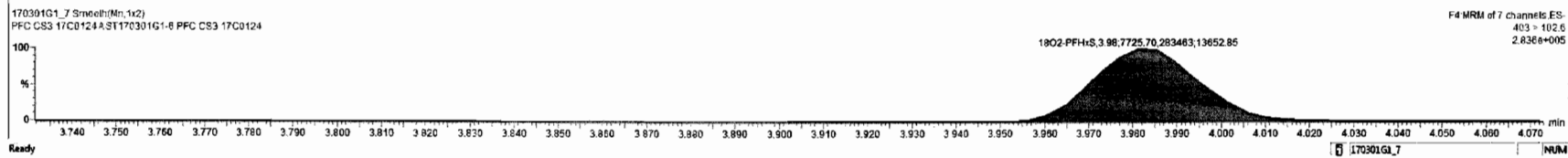
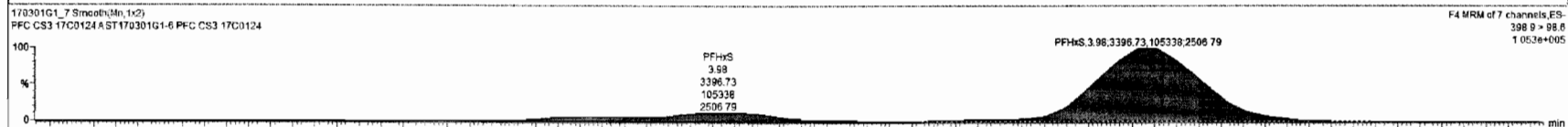
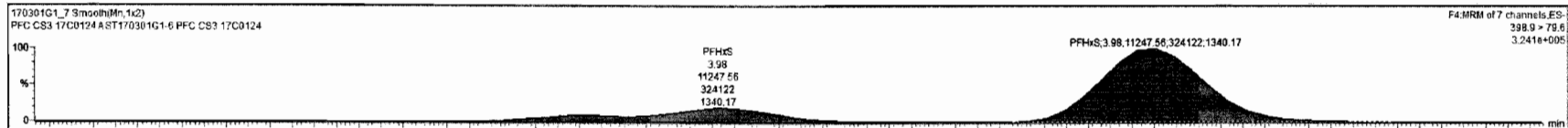
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_7, Date: 01-Mar-2017, Time: 16:12:23, ID: ST170301G1-6 PFC CS3 17C0124, Description: PFC CS3 17C0124 A





170301G1_7 - ST170301G1-6 PFC CS3 17C0124 - PFC CS3 17C0124A																						
#	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRP	RT	#	ES	RA	Y/N	RRT	Acq Date	Acq Time	1 st CR/Noise	ID	Sample Text	Factor1	SW	Cal File	MDL
1	PFBS	10.901515	0.0102	109.0		1.439e4		2.98	7		0.362	YES	1.001	01-Mar-17	16:12:23	28.225	ST170301G	PFC CS3 17C01...	1.0	1.00		YES
2	PFHpA	9.9028563		99.1		2.999e4		3.87	2	0			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		YES
3	PFHxS	13.292200		103.8		1.125e4		3.98	3	0			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		YES
4	PFOA	9.9726680		99.7		2.614e4		4.27	4	10			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		YES
5	PFNA	10.899020		106.9		1.931e4		4.61	5	11			1.001	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		YES
6	PFOS	11.660372	0.0175	116.6		3.587e3		4.66	6	12			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		YES
7	13C3-PFBS	13.431747	0.00555	107.5		7.661e3	0.442	2.97	7	14			0.386	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
8	13C4-PFHpA	13.848202	0.00869	110.8		1.995e4	1.117	3.87	8	14			0.971	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
9	18O2-PFHxS	14.261743	0.00265	114.1		7.729e3	0.420	3.98	9	14			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
10	13C2-PFOA	12.717799	0.0106	101.7		3.552e4	2.782	4.27	10	15			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
11	13C5-PFNA	12.836034	0.00174	102.7		1.046e4	0.848	4.60	11	16			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
12	13C6-PFOS	13.089222	0.00467	104.7		7.377e3	0.941	4.66	12	17			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
13	13C3-PFHxA	12.500000	0.00334	100.0		3.055e4	1.000	3.35	13	13			0.900	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
14	13C3-PFHxS	12.500000	0.00931	100.0		1.612e4	1.000	3.98	14	14			0.900	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
15	13C3-PFOA	12.500000	0.00112	100.0		1.255e4	1.000	4.27	15	15			0.900	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
16	13C3-PFNA	12.500000	0.00261	100.0		1.203e4	1.000	4.60	16	16			0.900	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.00668	100.0		7.484e3	1.000	4.66	17	17			0.900	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
18	Total PFBS	10.901515	0.0103						18					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
19	Total PFHxS	12.339630							19					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
20	Total PFOA	9.9726680							20					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO
21	Total PFOS	14.703004	0.0175						21					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01...	1.0	1.00		NO



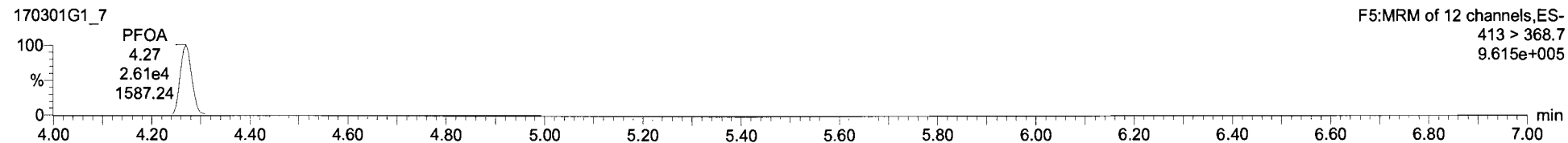
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

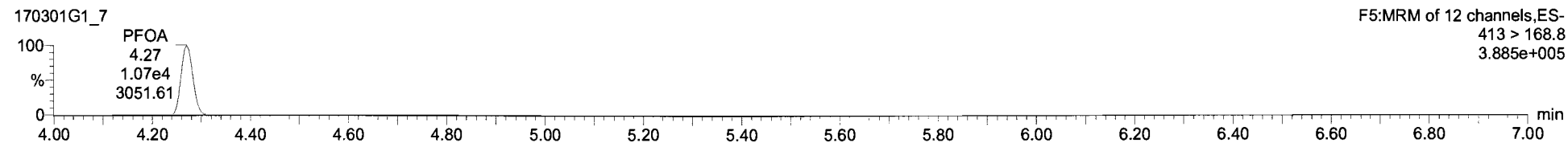
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_7, Date: 01-Mar-2017, Time: 16:12:23, ID: ST170301G1-6 PFC CS3 17C0124, Description: PFC CS3 17C0124 A

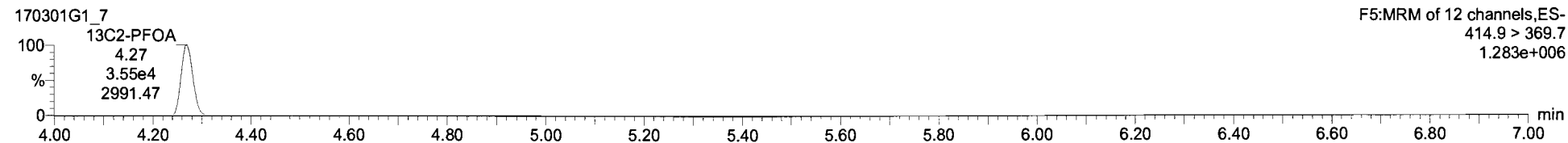
PFOA



PFOA



13C2-PFOA



Dataset: Untitled

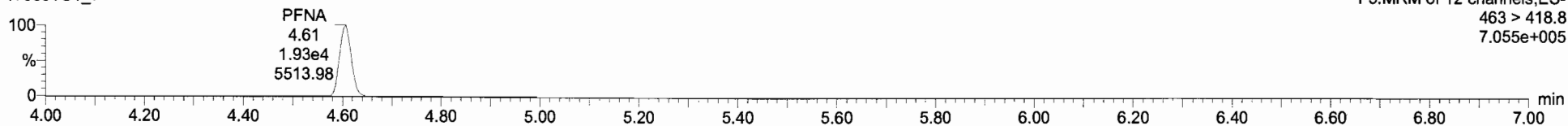
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_7, Date: 01-Mar-2017, Time: 16:12:23, ID: ST170301G1-6 PFC CS3 17C0124, Description: PFC CS3 17C0124 A

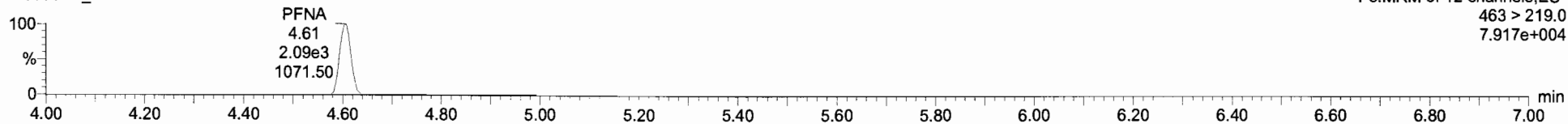
PFNA

170301G1_7



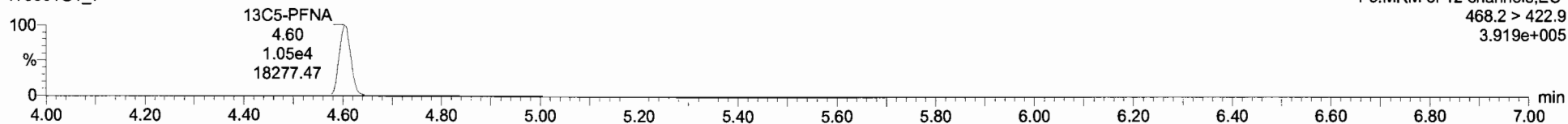
PFNA

170301G1_7



13C5-PFNA

170301G1_7



Dataset: Untitled

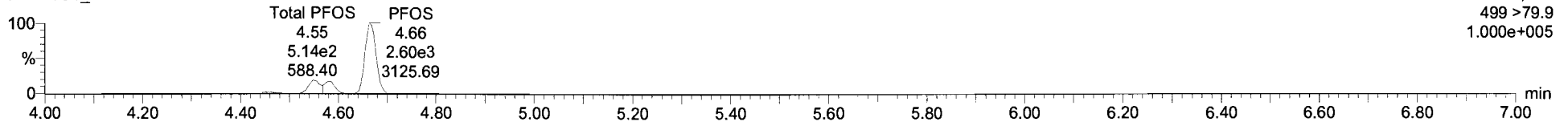
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_7, Date: 01-Mar-2017, Time: 16:12:23, ID: ST170301G1-6 PFC CS3 17C0124, Description: PFC CS3 17C0124 A

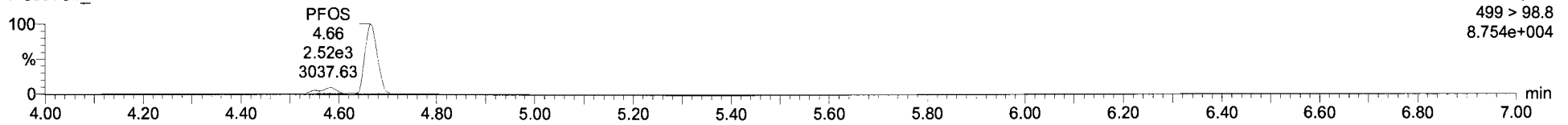
PFOS

170301G1_7



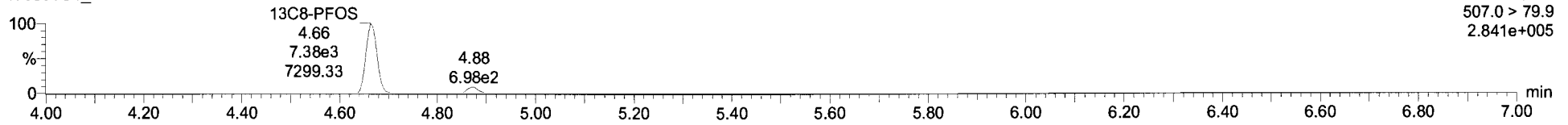
PFOS

170301G1_7

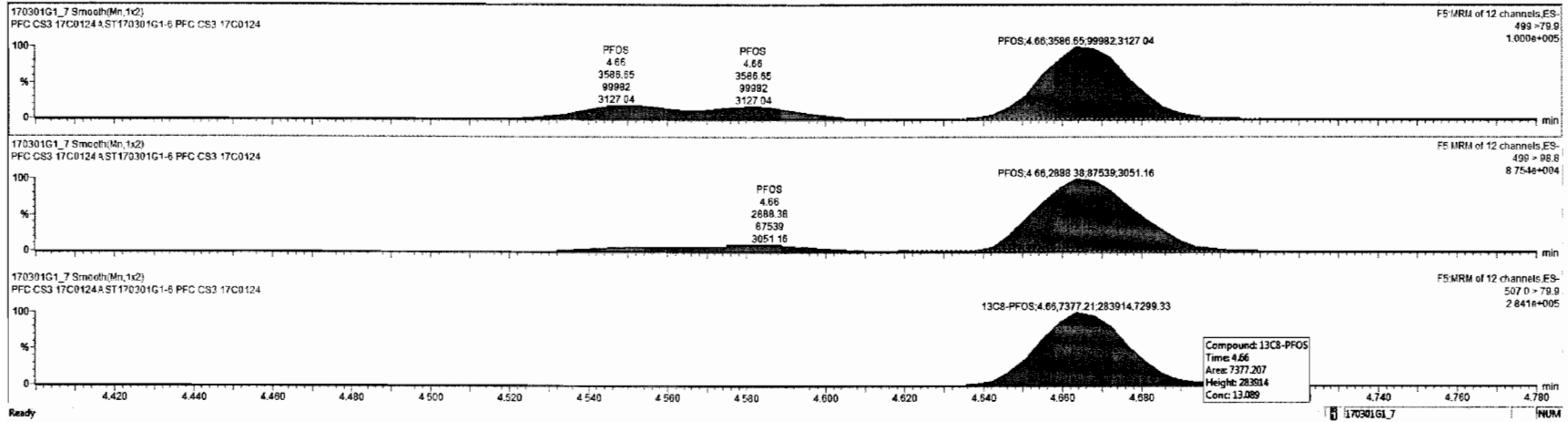


13C8-PFOS

170301G1_7



Name	Conc	DL	Wt%	EMPC	Abs Rtn	RFC	RT	#	IS	RA	Y/N	RR	Acq Date	Acq Time	Ch Noise	ID	Sample	Factor	SW	Cal File	MDL
1	PFBS	10.901515	0.0102	109.0	1.43564		2.56	1	7	0.362	YES	1.001	01-Mar-17	16:12:23	25.225	ST170301G	PFC CS3 17C01	1.0	1.00		YES
2	PFHpA	9.9050963		99.1	2.90564		3.57	2	6			1.001	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		YES
3	PFHxS	10.296260		103.0	1.12564		3.58	3	9			1.001	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		YES
4	PFDA	9.9726680		99.7	2.61464		4.27	4	10			1.001	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		YES
5	PFNA	10.696820		106.9	1.93164		4.61	5	11			1.001	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		YES
6	PFOS	11.064072	0.0175	106.8	3.58700		4.66	6	12			1.001	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		YES
7	13C3-PFBS	13.451747	0.00555	107.5	7.861e3	0.442	2.97	7	14			0.226	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
8	13C4-PFHpA	13.946202	0.00689	110.8	1.99564	1.117	3.57	8	14			0.971	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
9	18O2-PFHpS	14.261743	0.00265	114.1	7.726e3	0.420	3.58	9	14			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
10	13C2-PFDA	12.717799	0.0106	101.7	3.552e3	2.782	4.27	10	15			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
11	13C5-PFNA	12.836034	0.00174	102.7	1.046e4	0.846	4.60	11	16			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
12	13C6-PFOS	13.089222	0.00467	104.7	7.377e3	0.941	4.66	12	17			1.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
13	13C5-PFHpA	12.506000	0.00334	100.0	3.055e4	1.000	3.35	13	13			0.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
14	13C3-PFHpS	12.506000	0.000931	100.0	1.612e4	1.000	3.58	14	14			0.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
15	13C6-PFDA	12.506000	0.00112	100.0	1.255e4	1.000	4.27	15	15			0.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
16	13C9-PFNA	12.506000	0.00281	100.0	1.203e4	1.000	4.60	16	16			0.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.00968	100.0	7.454e3	1.000	4.66	17	17			0.000	01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
18	Total PFBS	10.901515	0.0103					18					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
19	Total PFHpS	12.338636						19					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
20	Total PFDA	9.9726680						20					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO
21	Total PFOS	14.703004	0.0175					21					01-Mar-17	16:12:23		ST170301G	PFC CS3 17C01	1.0	1.00		NO



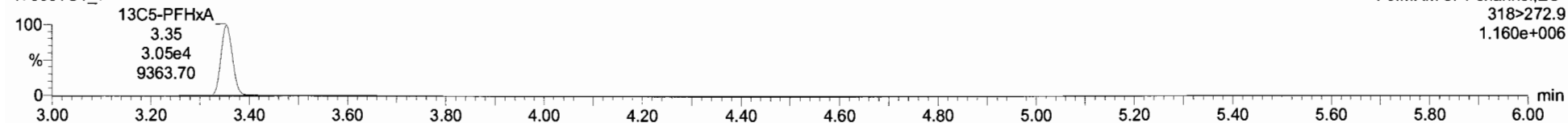
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_7, Date: 01-Mar-2017, Time: 16:12:23, ID: ST170301G1-6 PFC CS3 17C0124, Description: PFC CS3 17C0124 A

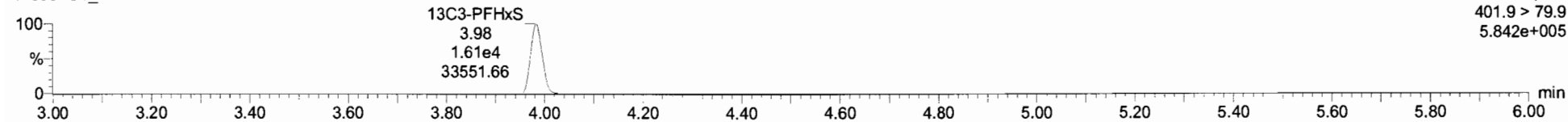
13C5-PFHxA

170301G1_7



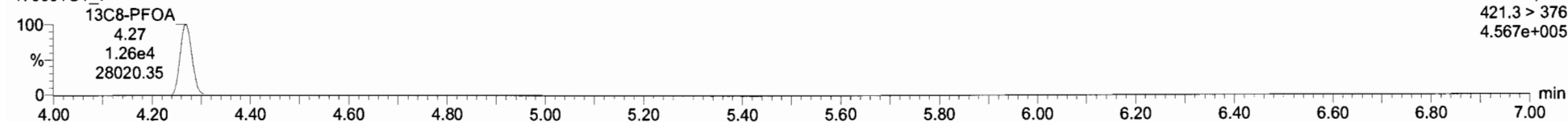
13C3-PFHxS

170301G1_7



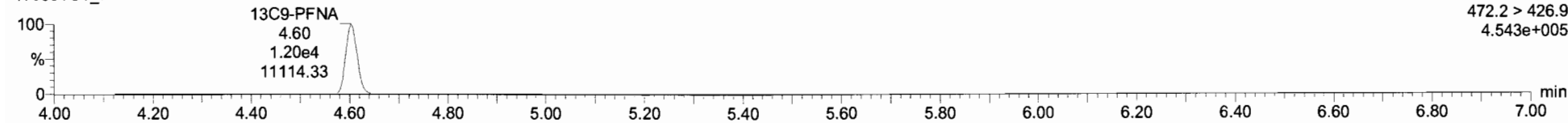
13C8-PFOA

170301G1_7



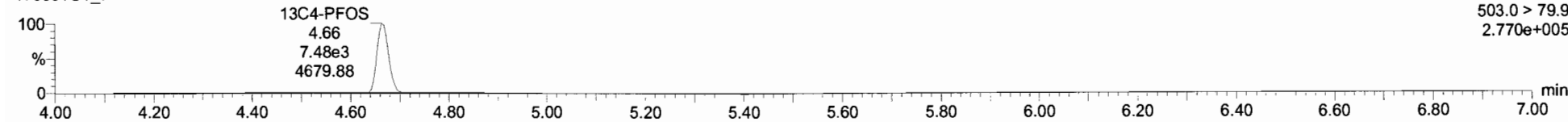
13C9-PFNA

170301G1_7



13C4-PFOS

170301G1_7



Dataset: Untitled

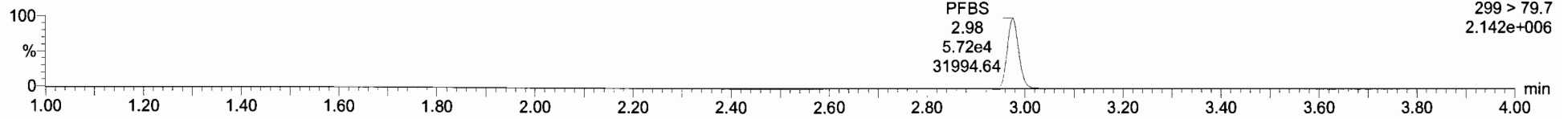
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_8, Date: 01-Mar-2017, Time: 16:24:59, ID: ST170301G1-7 PFC CS4 17C0125, Description: PFC CS4 17C0125 A

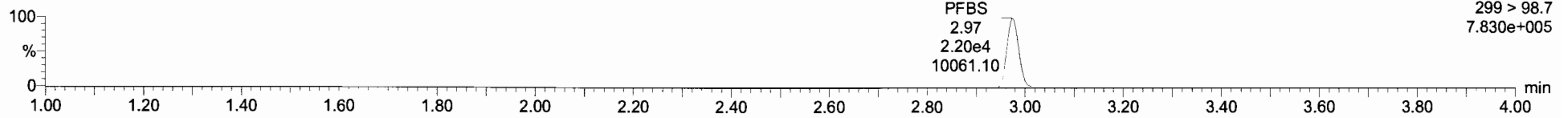
PFBS

170301G1_8



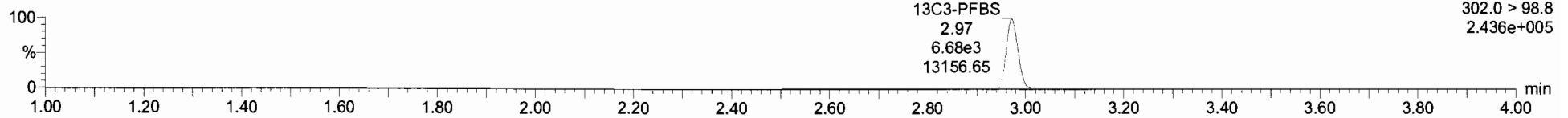
PFBS

170301G1_8



¹³C3-PFBS

170301G1_8

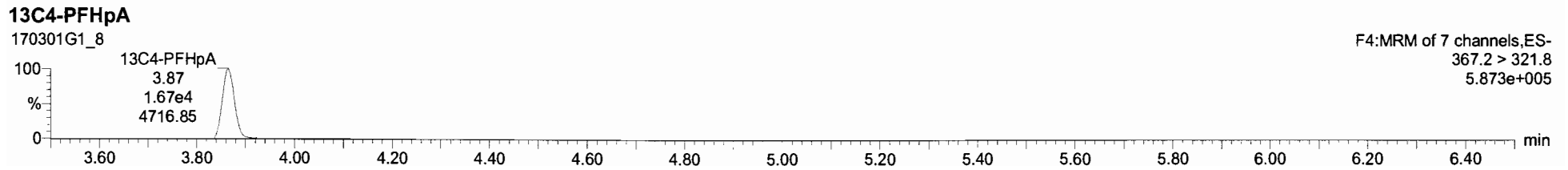
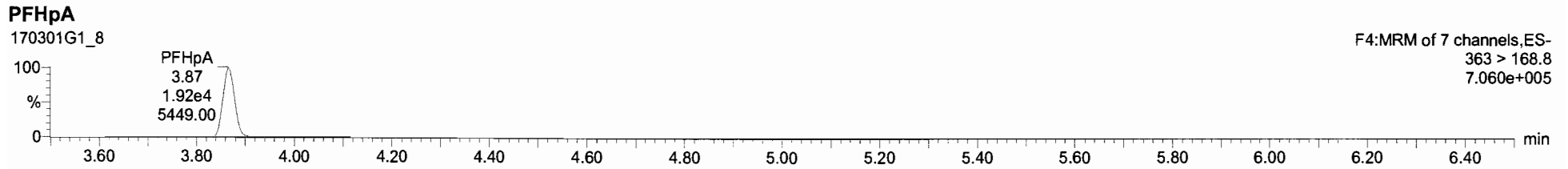
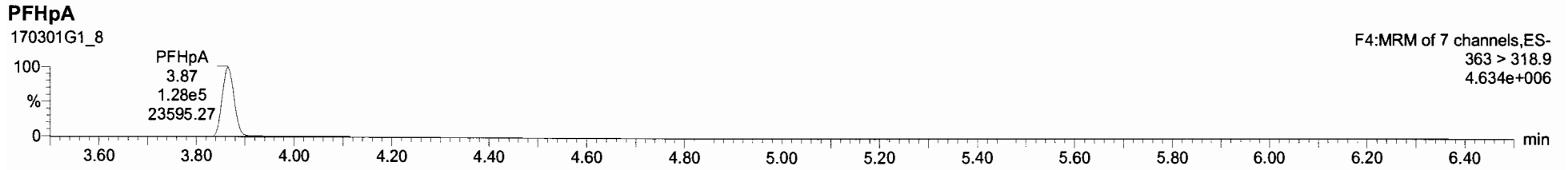


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_8, Date: 01-Mar-2017, Time: 16:24:59, ID: ST170301G1-7 PFC CS4 17C0125, Description: PFC CS4 17C0125 A

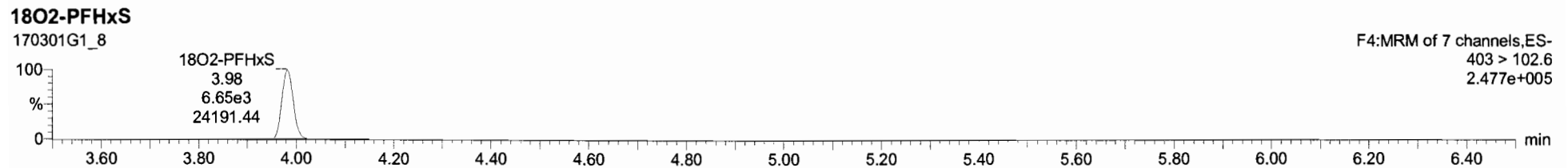
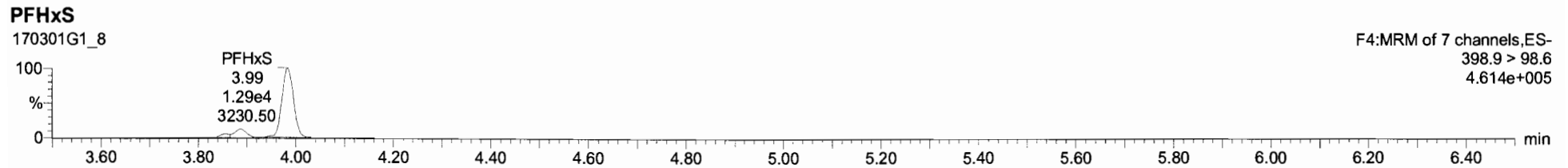
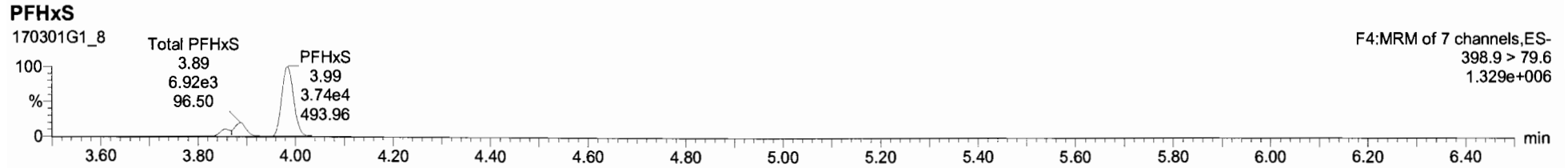


Dataset: Untitled

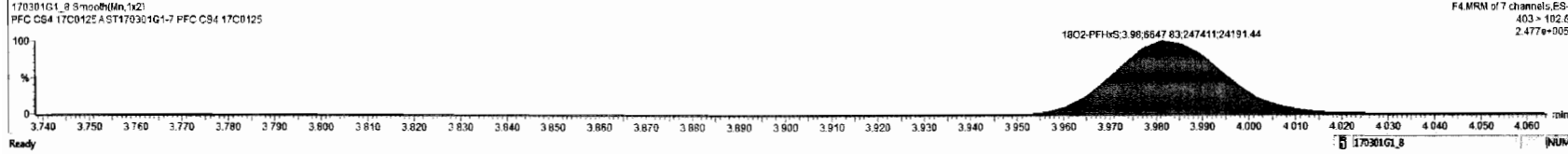
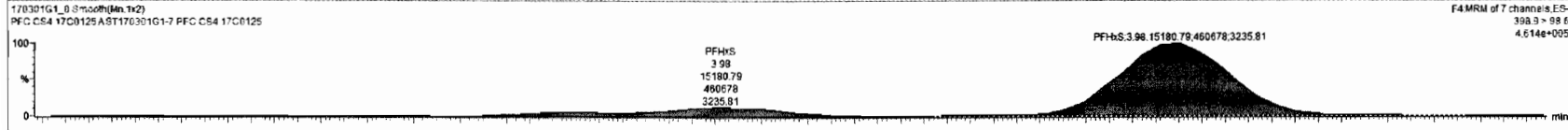
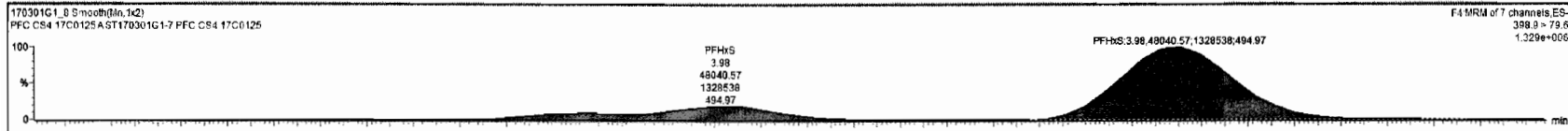
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_8, Date: 01-Mar-2017, Time: 16:24:59, ID: ST170301G1-7 PFC CS4 17C0125, Description: PFC CS4 17C0125 A



Line	Name	Conc	DL	%Rec	EMPC	Abs Resp	RRP	RT	#	SA	Y/N	RRT	Acq Date	Acq Time	* Chr Name	D	Sample Test	Factor	SWI	Cal File	+MOL
1	PFBS	49.645261	0.00804	99.3		5.718e4	2.98	1	7	0.385	YES	1.001	01-Mar-17	16:24:59	77 780	ST170301G	PFC C54 17C01...	1.0	1.00		YES
2	PFHpA	52.609248		104.0		1.277e5	3.87	2	8			1.000	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		YES
3	PFHxS	49.840499	0.107	99.9		4.854e4	3.98	3	9			1.001	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		YES
4	PFOA	51.876581		103.8		1.213e5	4.27	4	10			1.005	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		YES
5	PFNA	49.971852		99.9		1.052e5	4.61	5	11			1.001	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		YES
6	PFOS	50.150341	0.0216	100.3		2.231e4	4.67	6	12			1.001	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		YES
7	13C3-PFBS	11.435935	0.00214	91.5		6.852e3	0.442	2.97	7	14		0.886	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
8	13C4-PFHpA	11.343416	0.00570	90.7		1.674e4	1.117	3.87	8	14		0.971	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
9	18O2-PFHxS	11.979274	0.00125	95.8		6.648e3	0.420	3.98	9	14		1.000	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
10	13C2-PFOA	12.732742	0.00137	101.9		3.198e4	2.782	4.27	10	15		1.001	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
11	13C5-PFNA	13.317444	0.0115	106.5		1.227e4	0.848	4.60	11	16		1.000	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
12	13C8-PFOS	13.348267	0.00402	106.8		1.066e4	0.941	4.66	12	17		0.999	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
13	13C5-PFHxS	12.550000	0.00394	100.0		2.635e4	1.000	3.35	13	13		0.800	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
14	13C3-PFHxS	12.550000	0.00124	100.0		1.851e4	1.000	3.98	14	14		0.800	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
15	13C2-PFOA	12.550000	0.00210	100.0		1.128e4	1.000	4.27	15	15		0.800	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
16	13C3-PFNA	12.550000	0.00068	100.0		1.361e4	1.000	4.60	16	16		0.800	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
17	13C4-PFOS	12.550000	0.00241	100.0		1.861e4	1.000	4.67	17	17		0.800	01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
18	Total PFBS	49.858229	0.00798										01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
19	Total PFHpS	80.737588	0.107										01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
20	Total PFOA	51.876581											01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO
21	Total PFOS	63.780670	0.0216										01-Mar-17	16:24:59		ST170301G	PFC C54 17C01...	1.0	1.00		NO

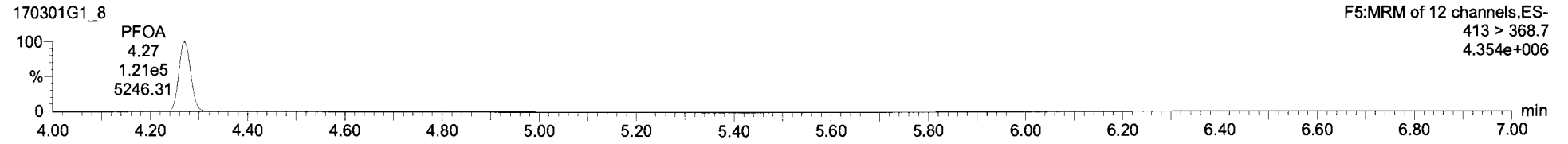


Dataset: Untitled

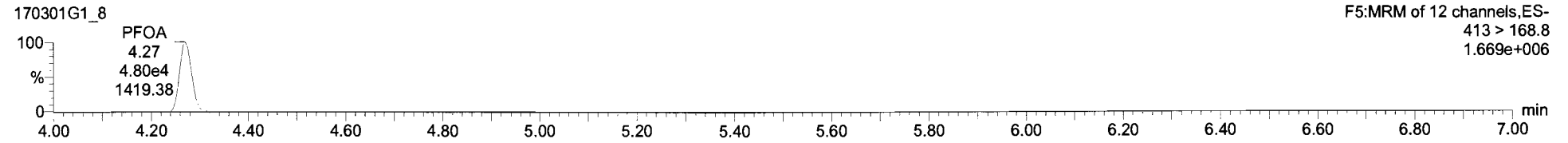
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_8, Date: 01-Mar-2017, Time: 16:24:59, ID: ST170301G1-7 PFC CS4 17C0125, Description: PFC CS4 17C0125 A

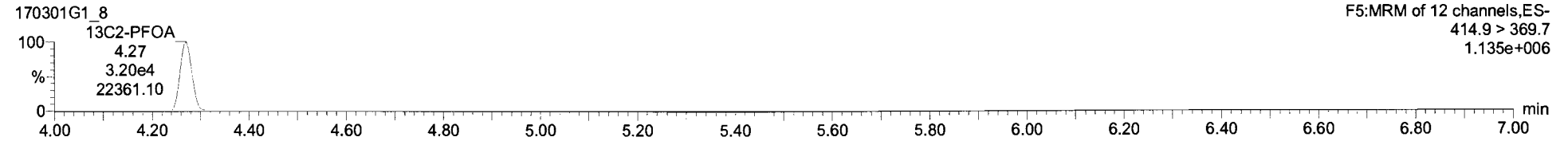
PFOA



PFOA



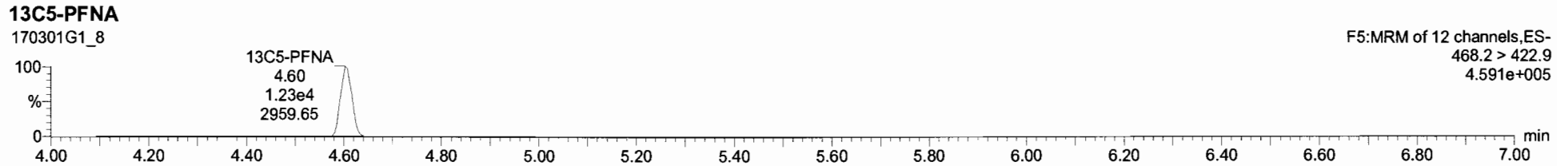
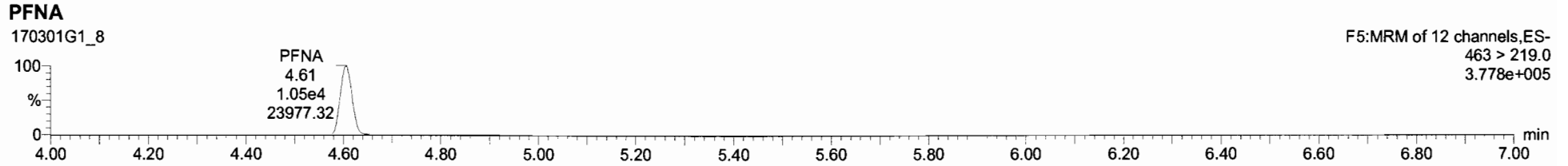
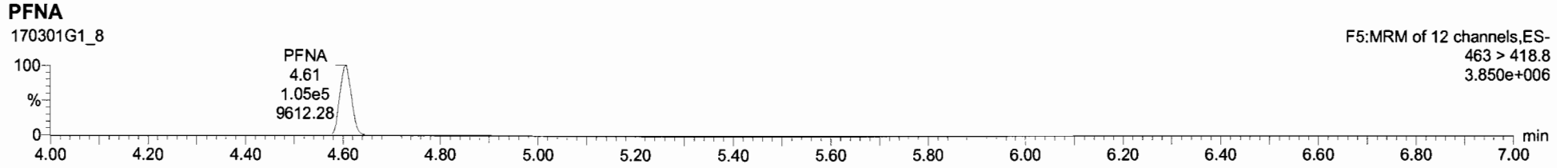
¹³C2-PFOA



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_8, Date: 01-Mar-2017, Time: 16:24:59, ID: ST170301G1-7 PFC CS4 17C0125, Description: PFC CS4 17C0125 A

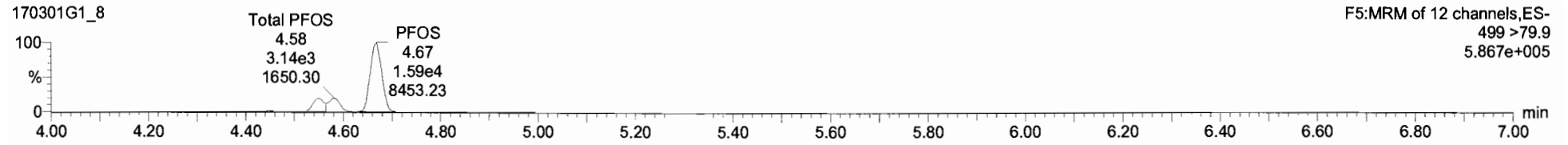


Dataset: Untitled

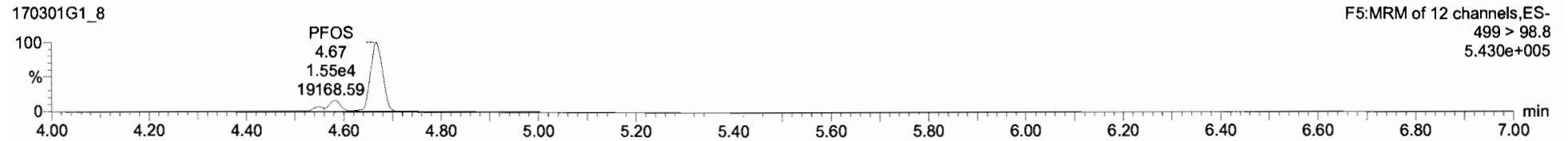
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_8, Date: 01-Mar-2017, Time: 16:24:59, ID: ST170301G1-7 PFC CS4 17C0125, Description: PFC CS4 17C0125 A

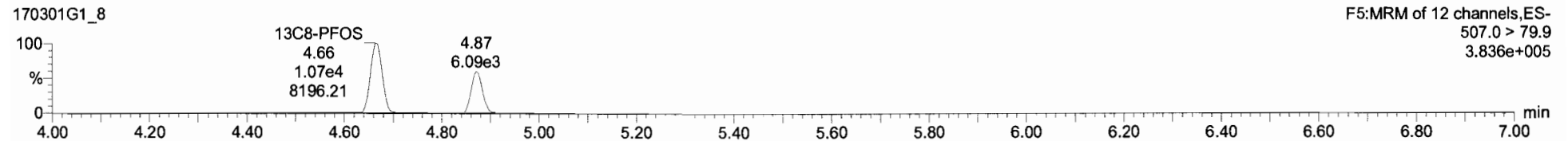
PFOS



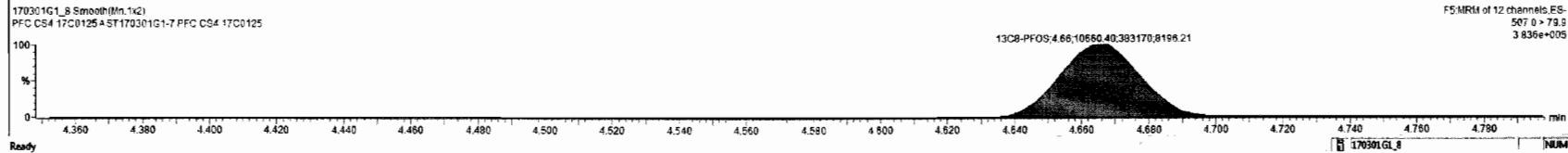
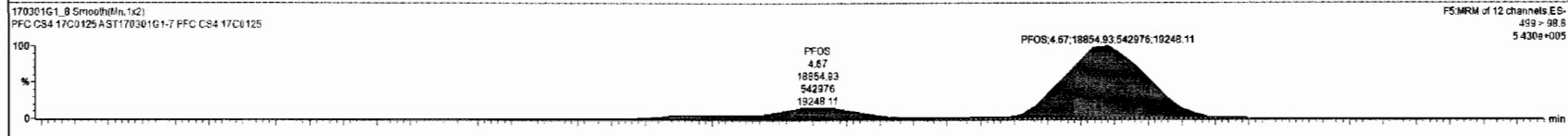
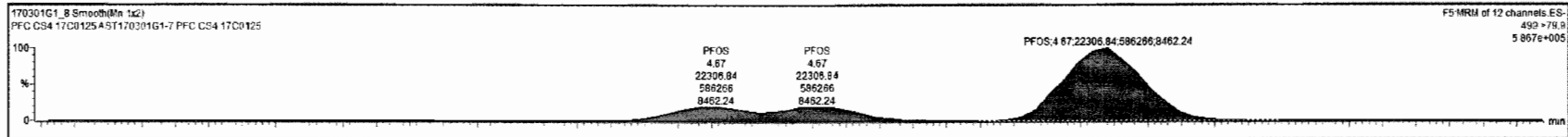
PFOS



13C8-PFOS



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRP	RT	#	RA	Y/N	RRT	Acq Date	Acq Time	* Chk Hole	ID	Sample Test	Factor	SW	Cal File	>MDL
1 PFBS	49.645261	0.00304	99.3		5.719e4	2.96	1	7	0.385	YES	1.001	01-Mar-17	16:24:59	77.780	ST170301G	PFC CS4 17C01...	1.0	1.00		YES
2 PFHpA	52.909248		104.0		1.277e5	3.87	2	8			1.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		YES
3 PFHxS	49.940499	0.107	99.9		4.864e4	3.98	3	9			1.001	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		YES
4 PFDA	51.876581		103.8		1.213e5	4.27	4	10			1.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		YES
5 PFNA	49.971852		99.9		1.052e5	4.61	5	11			1.001	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		YES
6 PFBS	50.159341	0.0216	106.3		2.231e4	4.07	6	12			1.001	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		YES
7 13C3-PFBS	11.435935	0.00214	91.5		8.662e3	0.442	2.97	7	14		0.886	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
8 13C4-PFHpA	11.343416	0.00570	90.7		1.674e4	1.117	3.87	8	14		0.971	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
9 1802-PFHxS	11.979274	0.00125	95.8		6.848e3	0.420	3.98	9	14		1.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
10 13C2-PFOA	12.732742	0.00137	101.9		3.198e4	2.782	4.27	10	15		1.001	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
11 13C5-PFNA	13.317444	0.0115	106.5		1.227e4	0.846	4.60	11	16		1.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
12 13C8-PFOS	13.345267	0.00402	106.8		1.966e4	0.941	4.66	12	17		0.999	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
13 15C5-PFHxA	12.509000	0.00394	100.0		2.635e4	1.000	3.35	13	13		0.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
14 15C3-PFHxS	12.500000	0.00124	100.0		1.851e4	1.000	3.96	14	14		0.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
15 13C8-PFOA	12.500000	0.00219	100.0		1.129e4	1.000	4.27	15	15		0.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
16 13C3-PFNA	12.500000	0.00068	100.0		1.361e4	1.000	4.60	16	16		0.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
17 13C4-PFOS	12.500000	0.00241	100.0		1.961e4	1.000	4.67	17	17		0.000	01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
18 Total PFBS	49.858229	0.00798										01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
19 Total PFHxS	60.737596	0.107										01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
20 Total PFOA	51.876581											01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO
21 Total PFOS	63.789670	0.0216										01-Mar-17	16:24:59		ST170301G	PFC CS4 17C01...	1.0	1.00		NO



Dataset: Untitled

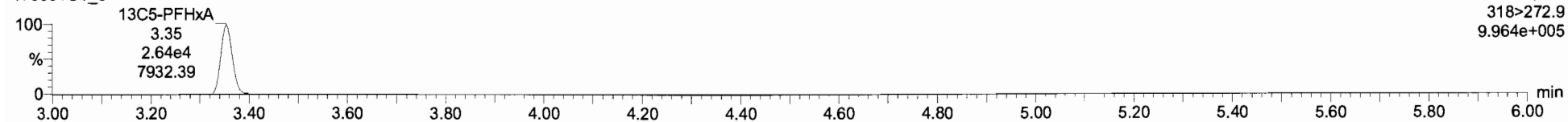
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_8, Date: 01-Mar-2017, Time: 16:24:59, ID: ST170301G1-7 PFC CS4 17C0125, Description: PFC CS4 17C0125 A

13C5-PFHxA

170301G1_8

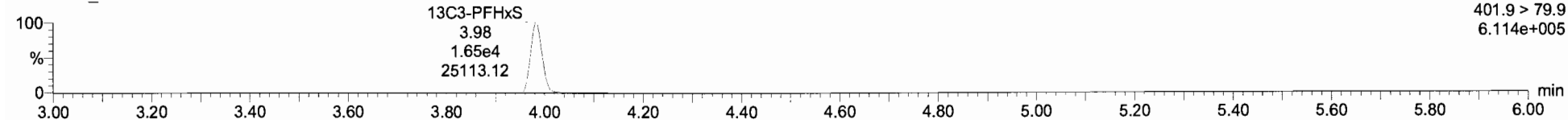
F3:MRM of 1 channel,ES-
318>272.9
9.964e+005



13C3-PFHxS

170301G1_8

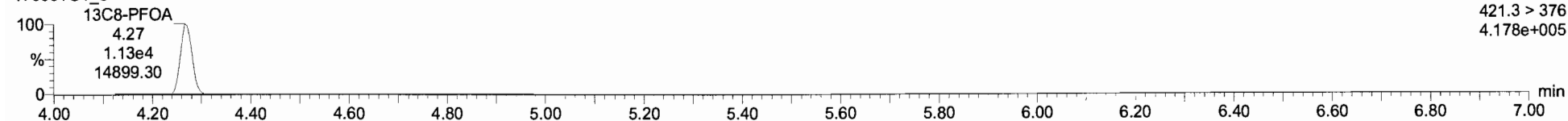
F4:MRM of 7 channels,ES-
401.9 > 79.9
6.114e+005



13C8-PFOA

170301G1_8

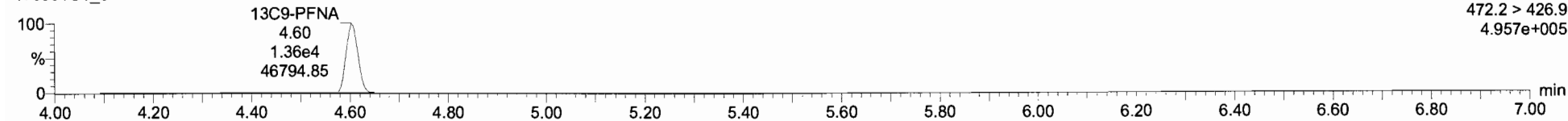
F5:MRM of 12 channels,ES-
421.3 > 376
4.178e+005



13C9-PFNA

170301G1_8

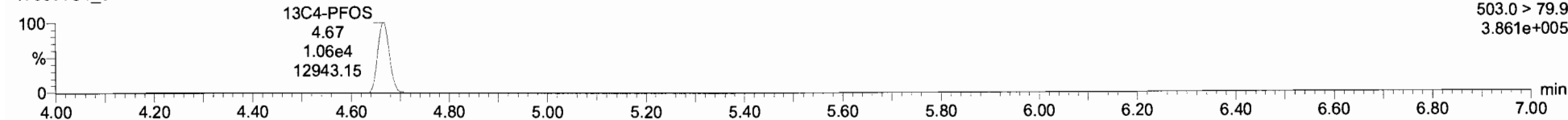
F5:MRM of 12 channels,ES-
472.2 > 426.9
4.957e+005



13C4-PFOS

170301G1_8

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.861e+005

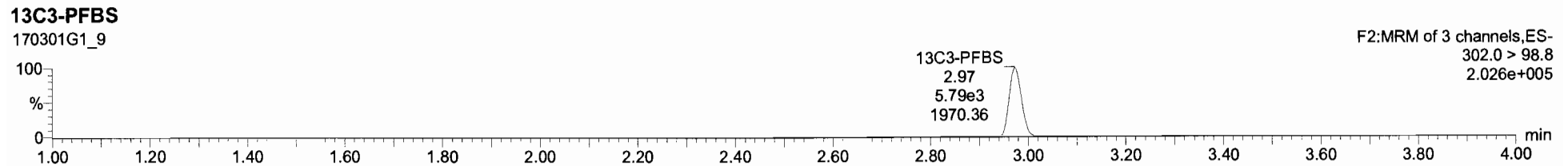
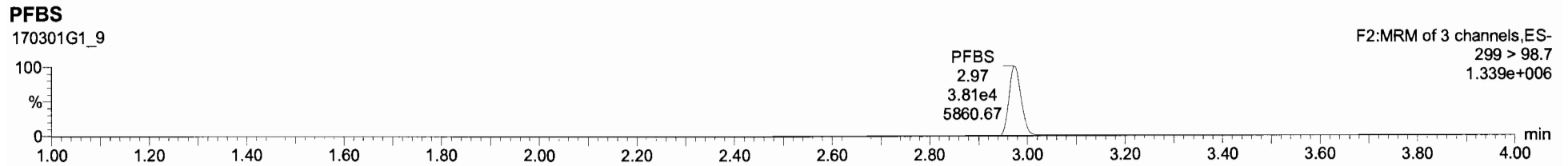
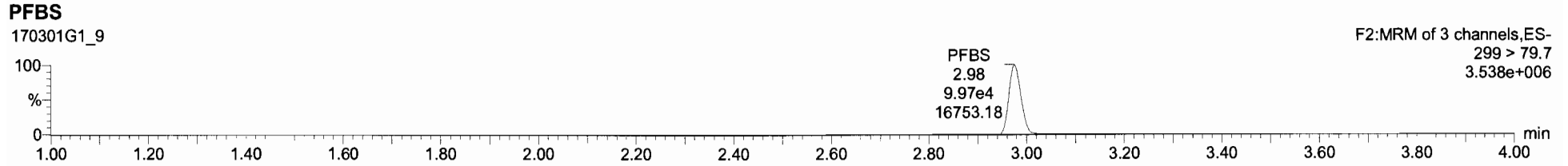


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_9, Date: 01-Mar-2017, Time: 16:37:33, ID: ST170301G1-8 PFC CS5 17B2726, Description: PFC CS5 17B2726 A



Dataset: Untitled

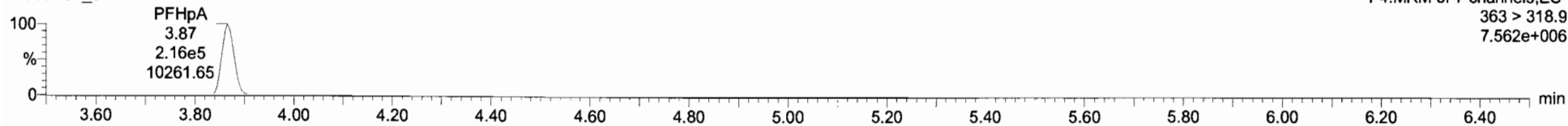
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_9, Date: 01-Mar-2017, Time: 16:37:33, ID: ST170301G1-8 PFC CS5 17B2726, Description: PFC CS5 17B2726 A

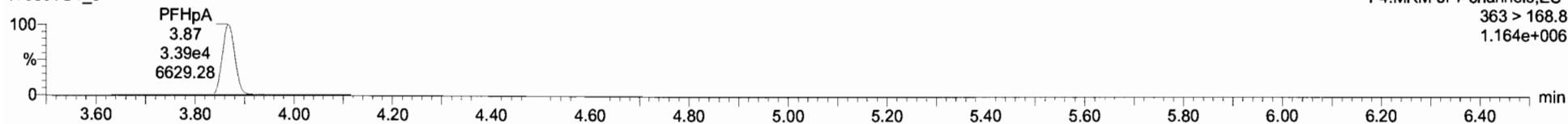
PFHpA

170301G1_9



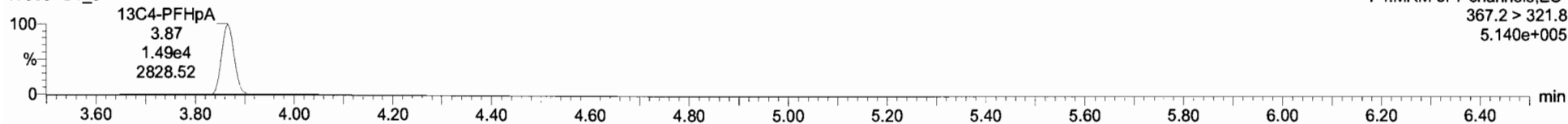
PFHpA

170301G1_9



13C4-PFHpA

170301G1_9



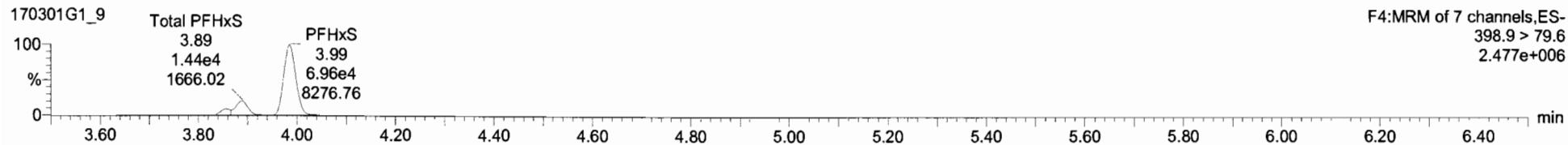
Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

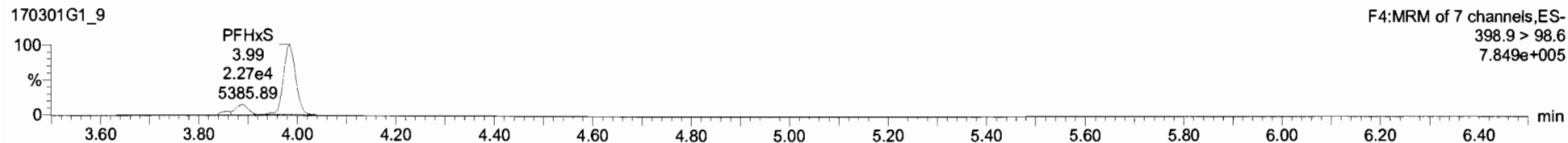
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_9, Date: 01-Mar-2017, Time: 16:37:33, ID: ST170301G1-8 PFC CS5 17B2726, Description: PFC CS5 17B2726 A

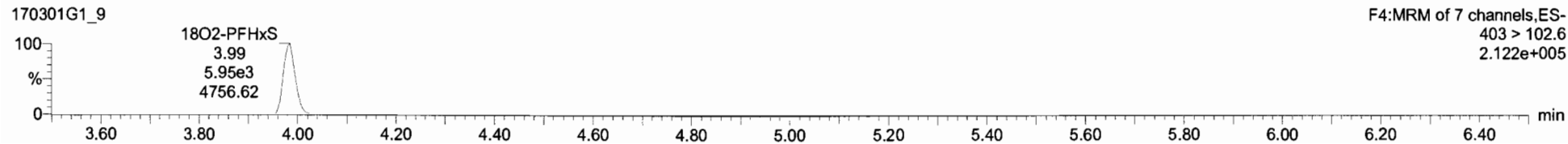
PFHxS



PFHxS

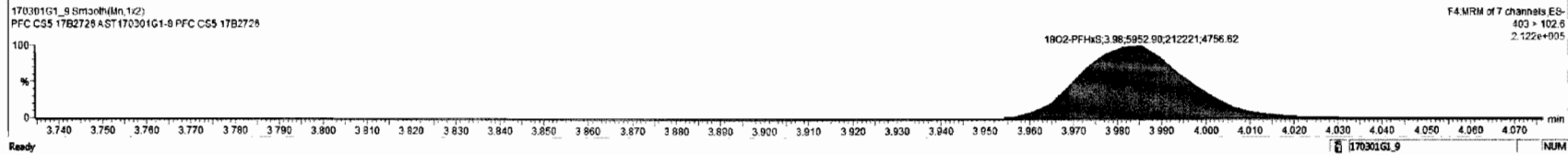
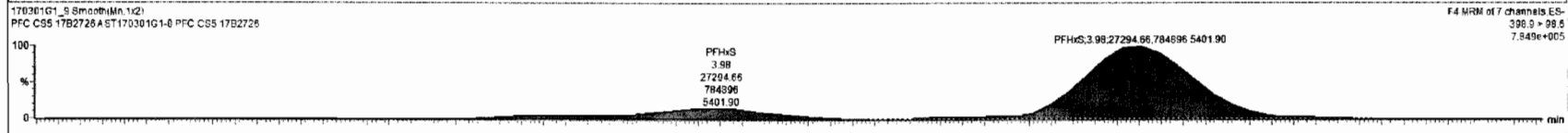
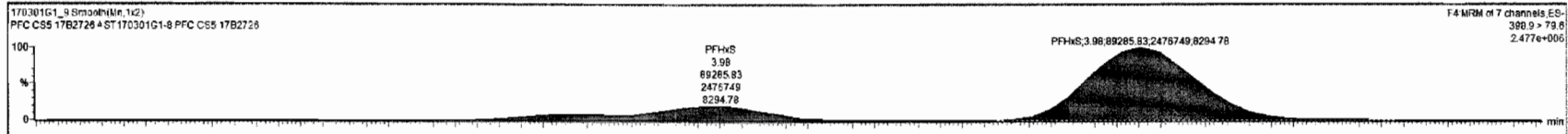


18O2-PFHxS





170301G1_9 ST170301G1 8 PFC CS5 17C0126 PFC CS5 17C0126 A																								
#	Name	Conc	OL	%Rec	EMPC	Abs Res	RPV	RT	#	ISA	DA	Y/N	ORI	Acq Date	Acq Time	#	Ch Name	ID	Sample Test	Factor	Sign	Cal File	>MDL	
1	PFBS	99.796722	0.0192	99.8		9.967e4	2.96	11	7	0.382	YES	1.001	01-Mar-17	16:37:33	228	230	ST170301G...	PFC CS5 17B27...	1.0	1.00			YES	
2	PFHxA	96.401634		96.4		2.158e5	3.87	2	8			1.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			YES	
3	PFHxS	100.906541		100.0		8.129e4	3.96	3	9			1.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			YES	
4	PFOA	98.596534		98.6		2.165e5	4.27	4	10			1.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			YES	
5	PFNA	99.451046		99.4		1.867e5	4.60	5	11			1.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			YES	
6	PFOS	98.665333	0.0527	98.7		4.104e4	4.67	6	12			1.001	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			YES	
7	13C3-PFBS	11.669132	0.0147	93.4		5.795e3	0.442	2.97	7	14		0.886	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
8	13C4-PFHxA	11.821164	0.0103	95.4		1.495e4	1.117	3.87	8	14		0.971	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
9	18O2-PFHxS	12.622808	0.00674	101.0		5.953e3	0.420	3.96	9	14		1.001	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
10	13C2-PFOA	12.911524	0.00439	103.3		2.923e4	2.732	4.27	10	15		1.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
11	13C5-PFNA	13.357683	0.0107	106.9		1.107e4	0.648	4.60	11	16		1.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
12	13C8-PFOS	14.461068	0.0425	115.7		9.962e3	0.941	4.66	12	17		1.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
13	13C5-PFHxA	12.500000	0.0175	100.0		2.315e4	1.000	3.35	13	13		0.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
14	13C3-PFHxS	12.500000	0.00484	100.0		1.403e4	1.000	3.96	14	14		0.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
15	13C8-PFOA	12.500000	0.00310	100.0		1.017e4	1.000	4.27	15	15		0.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
16	13C8-PFNA	12.500000	0.00583	100.0		1.224e4	1.000	4.60	16	16		0.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
17	13C4-PFOS	12.500000	0.00415	100.0		9.153e3	1.000	4.66	17	17		0.000	01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO	
18	Total PFBS	99.826270	0.0195						18					01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO
19	Total PFHxS	122.37310							19					01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO
20	Total PFOA	98.596534							20					01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO
21	Total PFOS	129.53697	0.0527						21					01-Mar-17	16:37:33			ST170301G...	PFC CS5 17B27...	1.0	1.00			NO



Dataset: Untitled

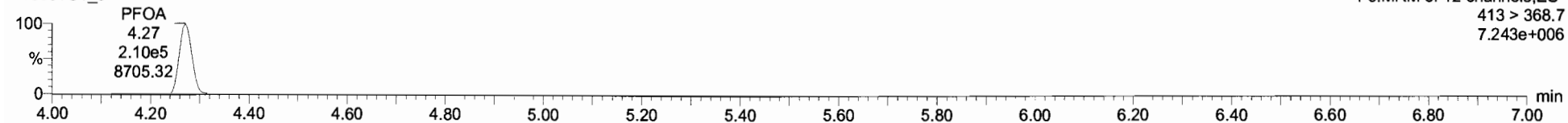
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_9, Date: 01-Mar-2017, Time: 16:37:33, ID: ST170301G1-8 PFC CS5 17B2726, Description: PFC CS5 17B2726 A

PFOA

170301G1_9

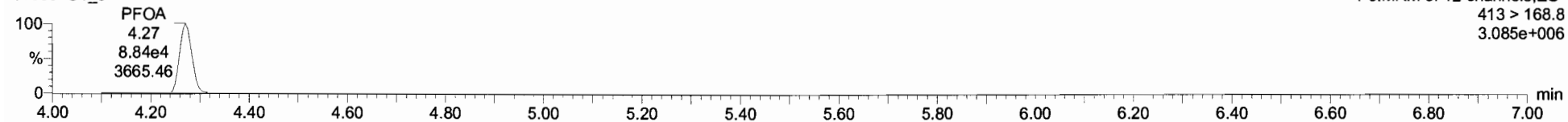
F5:MRM of 12 channels,ES-
413 > 368.7
7.243e+006



PFOA

170301G1_9

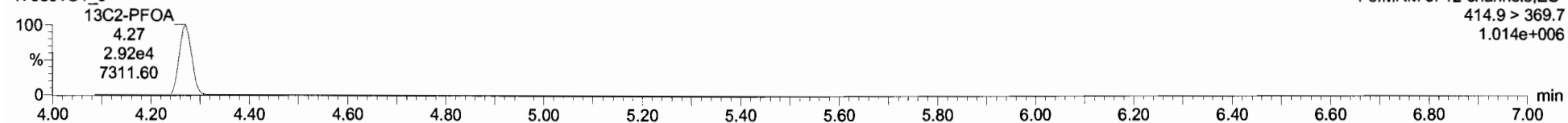
F5:MRM of 12 channels,ES-
413 > 168.8
3.085e+006



13C2-PFOA

170301G1_9

F5:MRM of 12 channels,ES-
414.9 > 369.7
1.014e+006



Dataset: Untitled

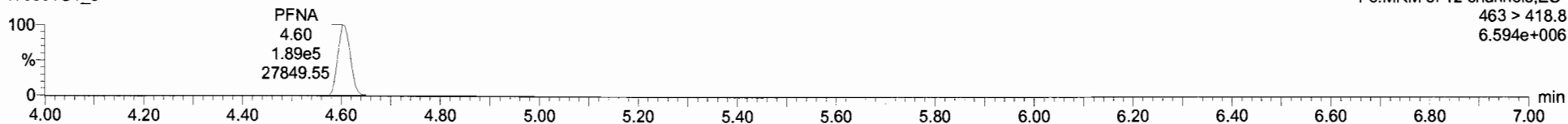
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_9, Date: 01-Mar-2017, Time: 16:37:33, ID: ST170301G1-8 PFC CS5 17B2726, Description: PFC CS5 17B2726 A

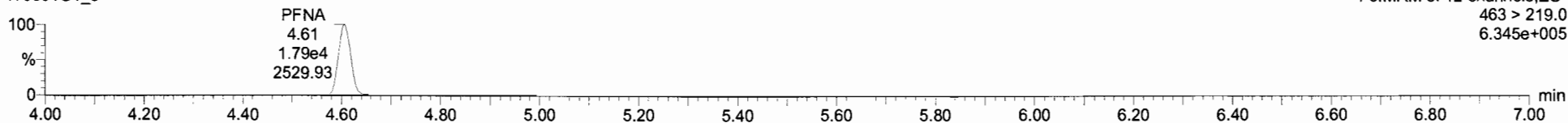
PFNA

170301G1_9



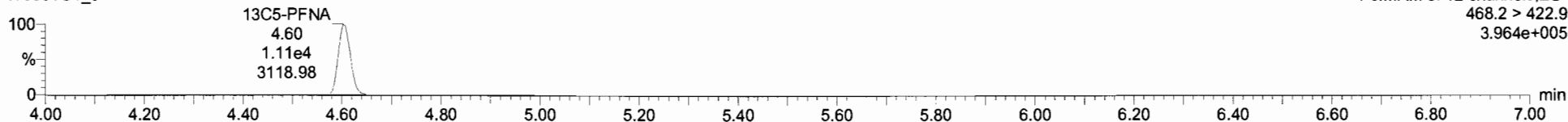
PFNA

170301G1_9



13C5-PFNA

170301G1_9

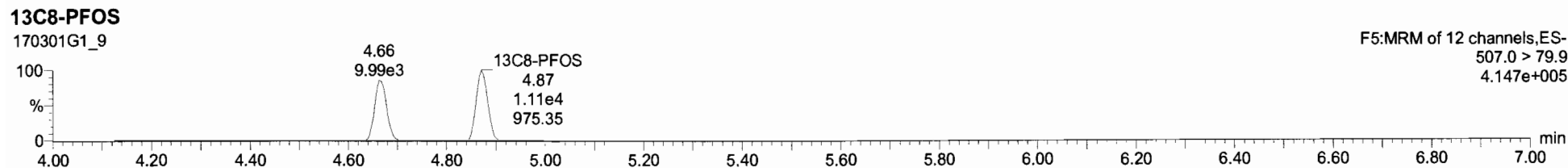
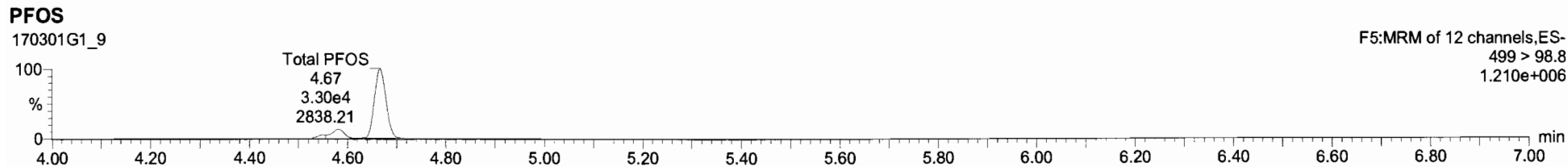
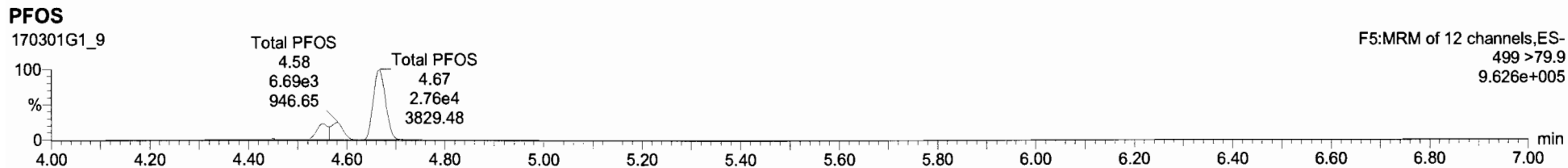


Dataset: Untitled

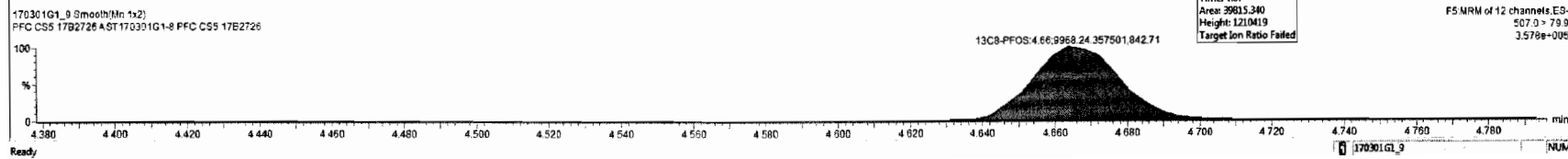
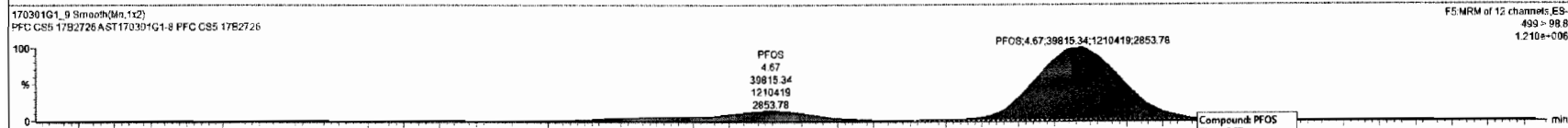
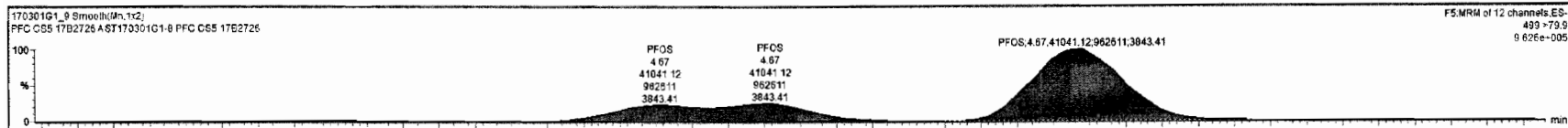
Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_9, Date: 01-Mar-2017, Time: 16:37:33, ID: ST170301G1-8 PFC CS5 17B2726, Description: PFC CS5 17B2726 A



1	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRF	Acq Date	Acq Time	1 st Chr/Name	ID	Sample Name	Factor1	SWI	Cal File	AMD
1	PFBS	99.786722	0.0152	99.0		9.967e4	2.99	1	7		0.362	YES	1.001	01-Mar-17	16:37:33	228.230	ST170301G..	PFC C55 17B27..	1.0	1.00		YES
2	PFHxA	98.401634		98.4		2.156e5	3.87	2	6				1.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		YES
3	PFHxS	100.90541		100.0		8.929e4	3.99	3	9				1.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		YES
4	PFOA	98.596834		98.6		2.105e5	4.27	4	10				1.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		YES
5	PFNA	99.431046		99.4		1.887e5	4.68	5	11				1.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		YES
6	PFOS	98.095131	0.0527	98.7		4.114e4	4.67	6	12				1.001	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		YES
7	13C3-PFBS	11.669132	0.0147	93.4		5.795e3	0.442	2.97	7	14			0.686	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
8	13C4-PFHxA	11.921184	0.0103	95.4		1.495e4	1.117	3.87	8	14			0.971	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
9	13C2-PFHxS	12.622890	0.00674	101.0		5.953e3	0.420	3.98	9	14			1.001	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
10	13C2-PFOA	12.911524	0.00439	103.3		2.923e4	2.782	4.27	10	15			1.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
11	13C5-PFNA	13.357663	0.0107	106.9		1.107e4	0.646	4.60	11	16			1.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
12	13C8-PFOS	14.461066	0.0425	115.7		9.965e3	0.941	4.66	12	17			1.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
13	13C5-PFHxA	12.500000	0.0175	100.0		2.315e4	1.600	3.35	13	13			0.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
14	13C3-PFHxS	12.500000	0.00454	100.0		1.403e4	1.000	3.98	14	14			0.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
15	13C2-PFOA	12.500000	0.00310	100.0		1.617e4	1.000	4.27	15	15			0.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
16	13C5-PFNA	12.500000	0.00583	100.0		1.224e4	1.000	4.60	16	18			0.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
17	13C4-PFOS	12.500000	0.00415	100.0		9.153e3	1.000	4.66	17	17			0.000	01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
18	Total PFBS	99.828270	0.0155						18					01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
19	Total PFHxS	122.37310							19					01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
20	Total PFOA	98.596834							20					01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO
21	Total PFOS	129.58697	0.0527						21					01-Mar-17	16:37:33		ST170301G..	PFC C55 17B27..	1.0	1.00		NO



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:21:56 Pacific Standard Time

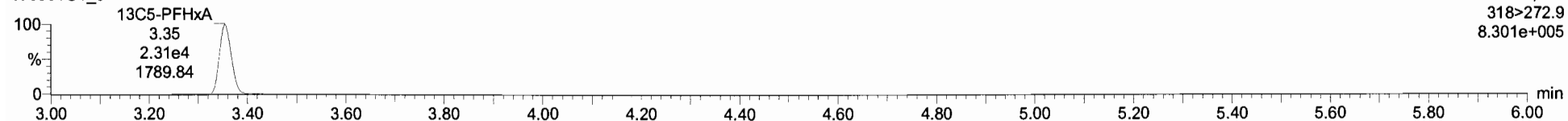
Printed: Thursday, March 02, 2017 08:27:08 Pacific Standard Time

Name: 170301G1_9, Date: 01-Mar-2017, Time: 16:37:33, ID: ST170301G1-8 PFC CS5 17B2726, Description: PFC CS5 17B2726 A

13C5-PFHxA

170301G1_9

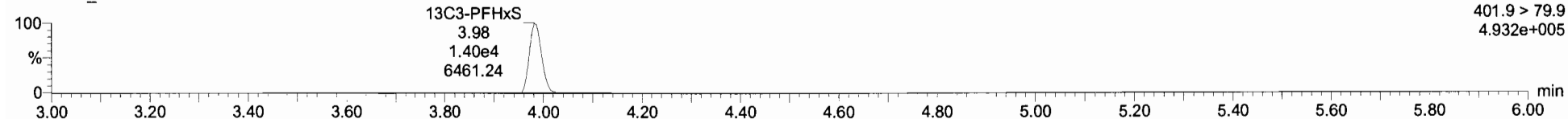
F3:MRM of 1 channel,ES-
318>272.9
8.301e+005



13C3-PFHxS

170301G1_9

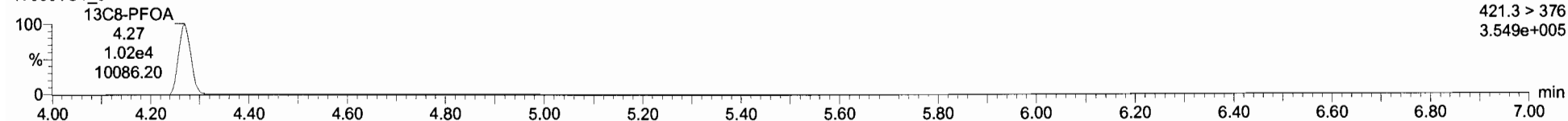
F4:MRM of 7 channels,ES-
401.9 > 79.9
4.932e+005



13C8-PFOA

170301G1_9

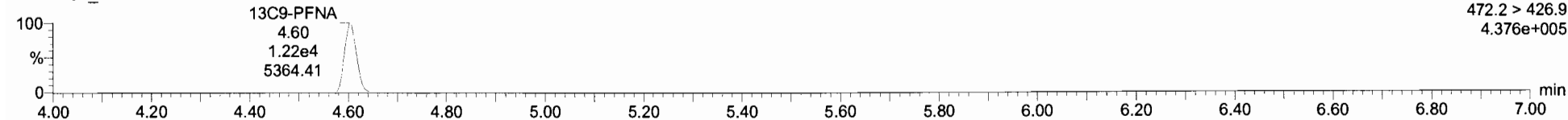
F5:MRM of 12 channels,ES-
421.3 > 376
3.549e+005



13C9-PFNA

170301G1_9

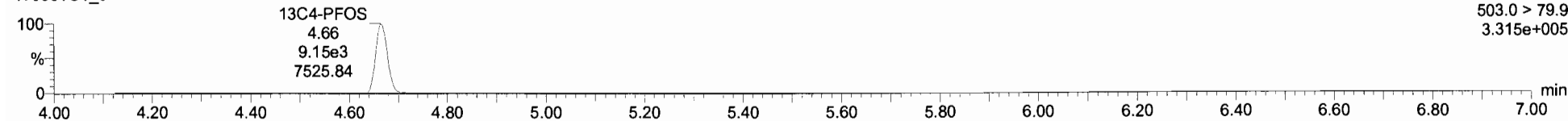
F5:MRM of 12 channels,ES-
472.2 > 426.9
4.376e+005



13C4-PFOS

170301G1_9

F5:MRM of 12 channels,ES-
503.0 > 79.9
3.315e+005



Dataset: U:\G1.PRO\Results\2017\170301G1\170301G1-11.qld

Last Altered: Thursday, March 02, 2017 09:00:59 Pacific Standard Time

Printed: Thursday, March 02, 2017 09:01:33 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBS (A)	299 > 79.7	1.26e4	8.35e3		1.000	2.98	8.75	87.3
2	2 PFHpA	363 > 318.9	3.02e4	2.14e4		1.000	3.87	9.57	95.7
3	3 PFHxS (A)	398.9 > 79.6	1.06e4	8.52e3		1.000	3.99	8.78	87.0
4	4 PFOA	413 > 368.7	2.68e4	3.81e4		1.000	4.27	9.54	95.4
5	5 PFNA	463 > 418.8	2.30e4	1.40e4		1.000	4.61	9.48	94.8
6	6 PFOS (A)	499 > 79.9	4.13e3	1.18e4		1.000	4.67	8.42	84.2
7	7 13C3-PFBS	302.0 > 98.8	8.35e3	1.92e4	0.442	1.000	2.98	12.3	98.5
8	8 13C4-PFHpA	367.2 > 321.8	2.14e4	1.92e4	1.117	1.000	3.87	12.5	100.2
9	9 18O2-PFHxS	403 > 102.6	8.52e3	1.92e4	0.420	1.000	3.99	13.2	105.9
10	10 13C2-PFOA	414.9 > 369.7	3.81e4	1.38e4	2.782	1.000	4.27	12.4	99.2
11	11 13C5-PFNA	468.2 > 422.9	1.40e4	1.46e4	0.846	1.000	4.61	14.2	113.4
12	12 13C8-PFOS	507.0 > 79.9	1.18e4	1.11e4	0.941	1.000	4.67	14.0	112.3
13	13 13C5-PFHxA	318 > 272.9	3.12e4	3.12e4	1.000	1.000	3.36	12.5	100.0
14	14 13C3-PFHxS	401.9 > 79.9	1.92e4	1.92e4	1.000	1.000	3.99	12.5	100.0
15	15 13C8-PFOA	421.3 > 376	1.38e4	1.38e4	1.000	1.000	4.27	12.5	100.0
16	16 13C9-PFNA	472.2 > 426.9	1.46e4	1.46e4	1.000	1.000	4.60	12.5	100.0
17	17 13C4-PFOS	503.0 > 79.9	1.11e4	1.11e4	1.000	1.000	4.67	12.5	100.0

75-125
↓

ES 3/2/17

(A) Concentration < 10 ng/L in SS native mix. ES 3/2/17

Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:29:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:29:43 Pacific Standard Time

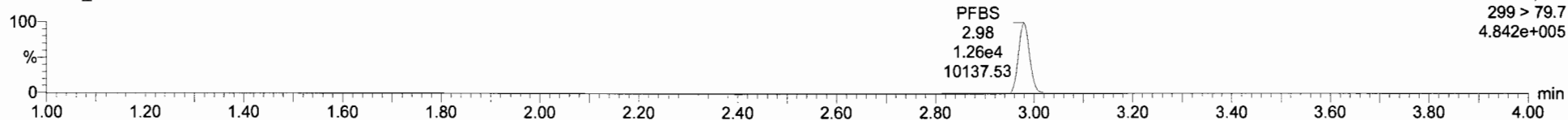
Method: U:\G1.PRO\MethDB\PFAS_6_2trans_LINEAR.mdb 28 Feb 2017 16:04:45

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_3-01-17_L6_2Trans.cdb 02 Mar 2017 08:18:08

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A

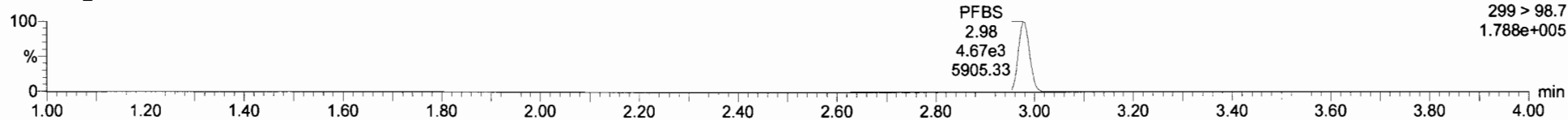
PFBS

170301G1_11



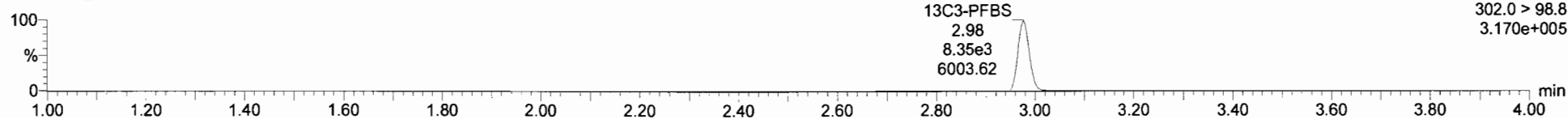
PFBS

170301G1_11



13C3-PFBS

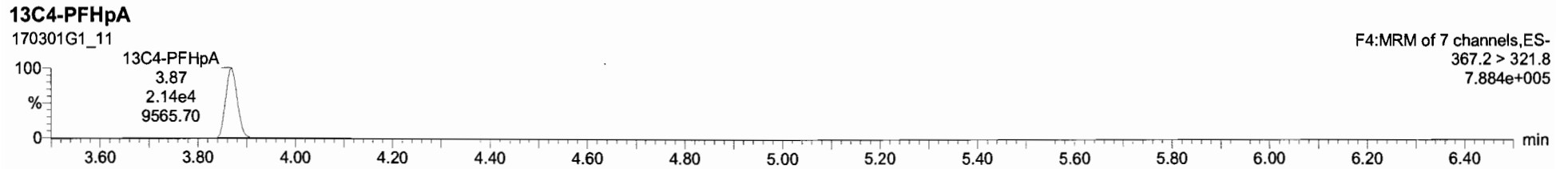
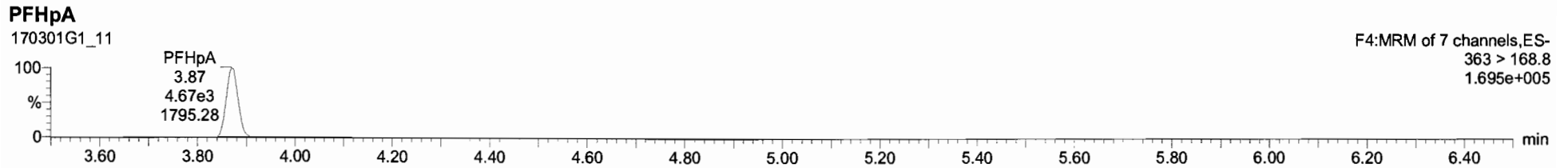
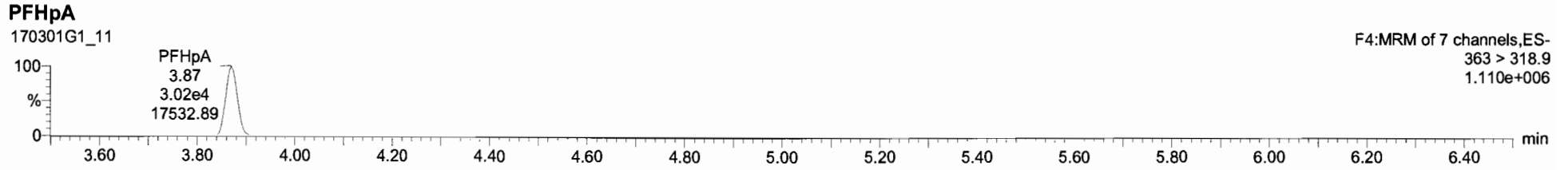
170301G1_11



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:29:33 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:29:43 Pacific Standard Time

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A

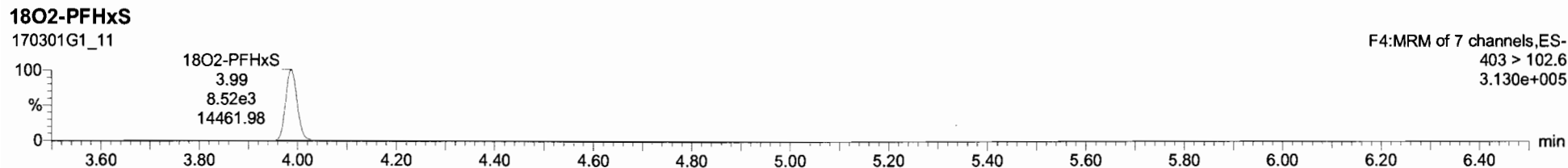
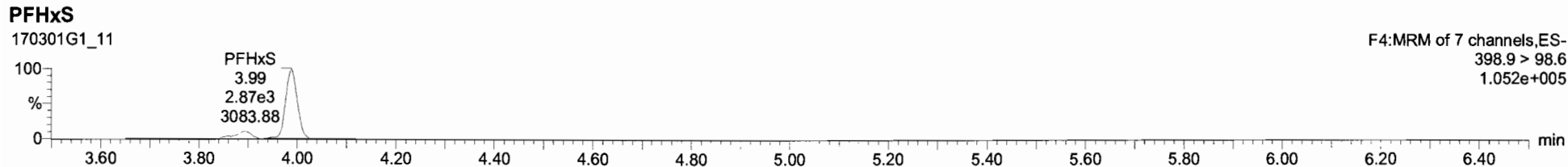
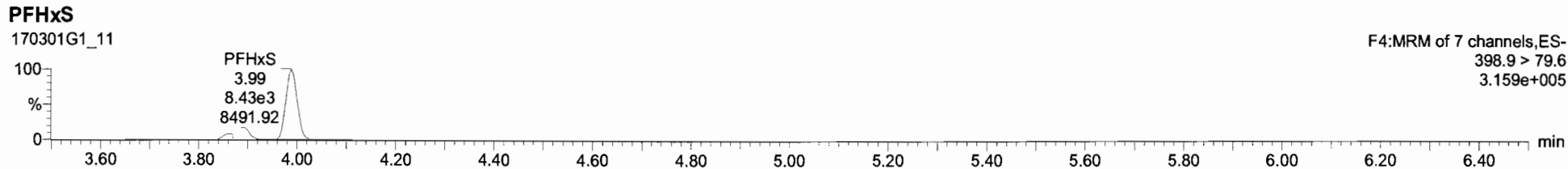


Dataset: Untitled

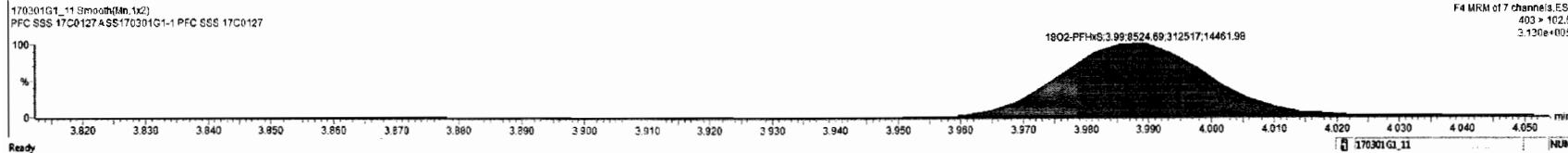
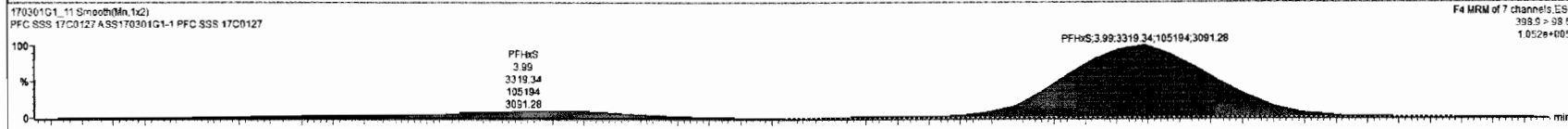
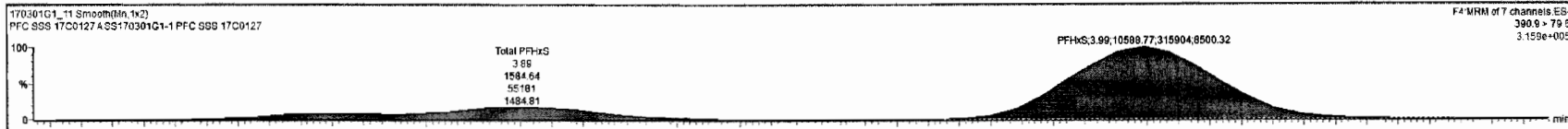
Last Altered: Thursday, March 02, 2017 08:29:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:29:43 Pacific Standard Time

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A



Name	Trace	Area	RPF	WVAL	ProdRT	RT	Conc	WDL	%Rec	DL	
1	PFBS	299 > 79.7	1.26e4		1.000	2.98	2.95	8.75	NO	87.5	0.0062441
2	PFHpA	363 > 318.9	3.92e4		1.000	3.87	3.87	8.57	YES	95.7	0.0000000
3	PFHxS	398.9 > 79.6	1.05e4		1.000	3.99	3.99	8.78	YES	87.8	0.0000000
4	PFDA	413 > 366.7	2.66e4		1.000	4.27	4.27	9.54	YES	95.4	0.0000000
5	PFNA	463 > 418.8	2.30e4		1.000	4.61	4.61	9.48	YES	94.8	0.0000000
6	PFOS	499 > 79.9	4.13e3		1.000	4.67	4.67	8.42	YES	84.2	0.0596010
7	13C3-PFBS	362.0 > 88.8	8.35e3	0.442	1.000	2.98	2.98	12.3	NO	98.5	0.0052804
8	13C4-PFHpA	367.2 > 321.8	2.14e4	1.12	1.000	3.86	3.87	12.5	NO	100.2	0.0032621
9	18O2-PFHxS	483 > 102.6	8.52e3	0.420	1.000	3.99	3.99	13.2	NO	105.9	0.0022771
10	13C2-PFOA	414.9 > 369.7	3.81e4	2.78	1.000	4.27	4.27	12.4	NO	99.2	0.0023340
11	13C5-PFNA	468.2 > 422.9	1.40e4	0.848	1.000	4.60	4.61	14.2	NO	113.4	0.0019428
12	13C6-PFOS	507.0 > 79.9	1.18e4	0.941	1.000	4.67	4.67	14.0	NO	112.3	0.0061278
13	13C5-PFHxS	318-272.9	3.12e4	1.90	1.000	3.29	3.36	12.5	NO	100.0	0.0046902
14	13C3-PFHxS	491.9 > 79.9	1.92e4	1.90	1.000	3.94	3.99	12.5	NO	100.0	0.0057740
15	13C2-PFOA	421.3 > 376	1.38e4	1.90	1.000	4.22	4.27	12.5	NO	100.0	0.0031889
16	13C5-PFNA	472.3 > 426.9	1.48e4	1.90	1.000	4.56	4.60	12.5	NO	100.0	0.0045131
17	13C4-PFOS	503.0 > 79.9	1.11e4	1.90	1.000	4.63	4.67	12.5	NO	100.0	0.0064349
18	Total PFBS	299 > 79.7	1.26e4		1.000	3.11		8.77	NO		0.0062738
19	Total PFHxS	398.9 > 79.6	1.27e4		1.000	4.09		10.4	NO		
20	Total PFDA	413 > 366.7	2.69e4		1.000	4.39		9.54	NO		
21	Total PFOS	499 > 79.9	4.68e3		1.000	4.62		9.55	NO		0.0596010

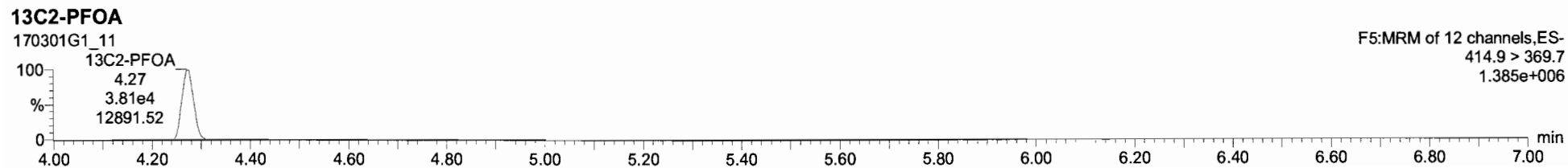
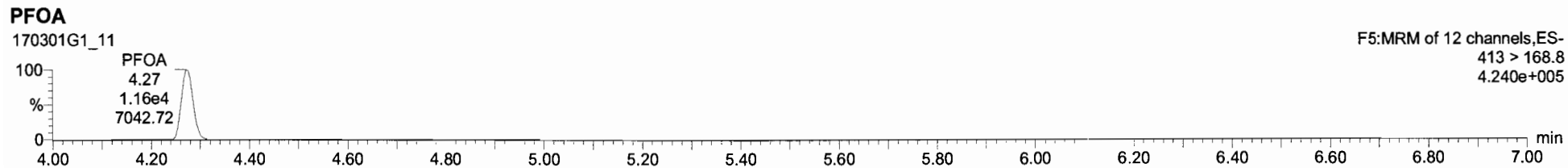
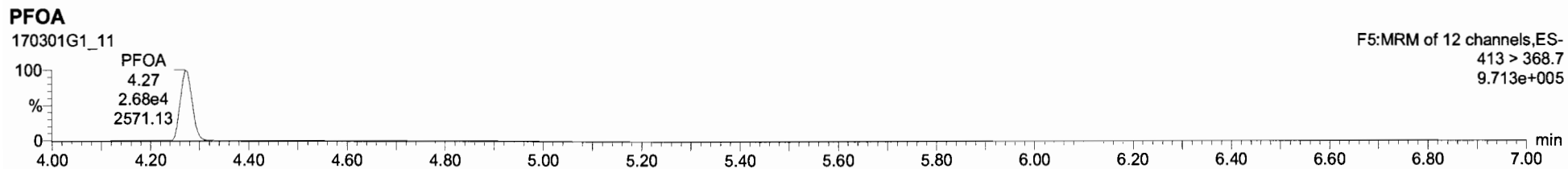


Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:29:33 Pacific Standard Time

Printed: Thursday, March 02, 2017 08:29:43 Pacific Standard Time

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A



Dataset: Untitled

Last Altered: Thursday, March 02, 2017 08:29:33 Pacific Standard Time

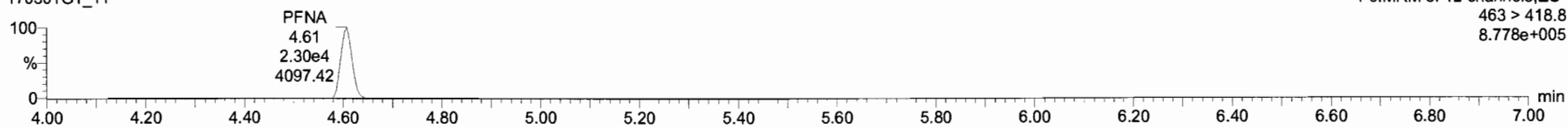
Printed: Thursday, March 02, 2017 08:29:43 Pacific Standard Time

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A

PFNA

170301G1_11

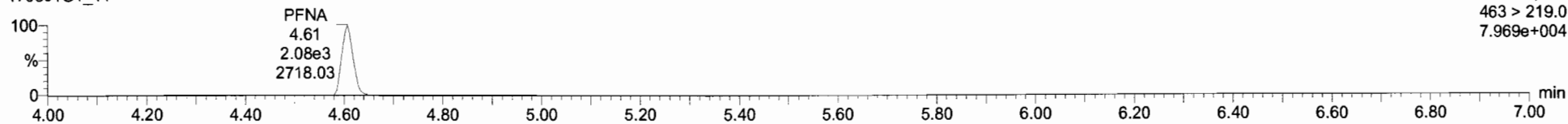
F5:MRM of 12 channels,ES-
463 > 418.8
8.778e+005



PFNA

170301G1_11

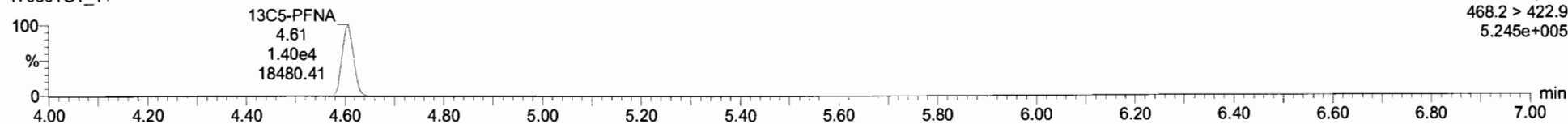
F5:MRM of 12 channels,ES-
463 > 219.0
7.969e+004



13C5-PFNA

170301G1_11

F5:MRM of 12 channels,ES-
468.2 > 422.9
5.245e+005



Dataset: Untitled

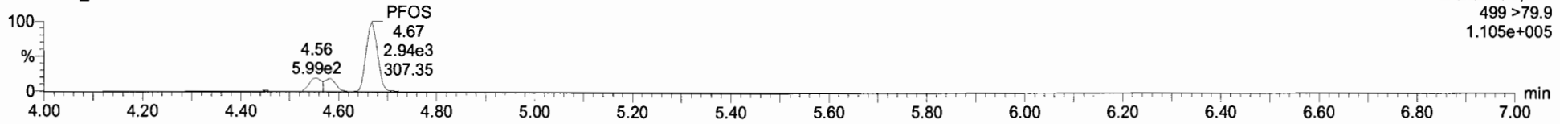
Last Altered: Thursday, March 02, 2017 08:29:33 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:29:43 Pacific Standard Time

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A

PFOS

170301G1_11

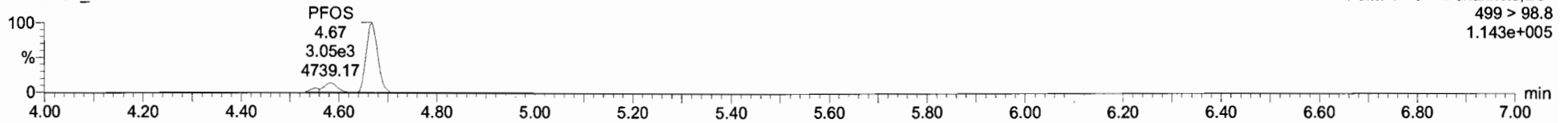
F5:MRM of 12 channels,ES-
499 >79.9
1.105e+005



PFOS

170301G1_11

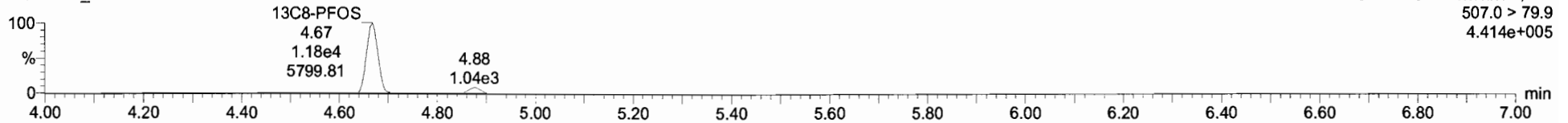
F5:MRM of 12 channels,ES-
499 > 98.8
1.143e+005



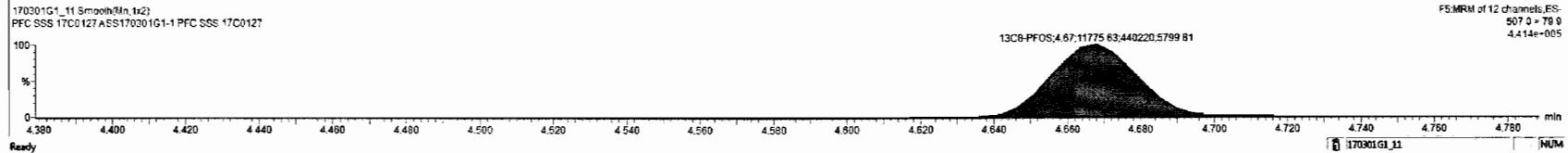
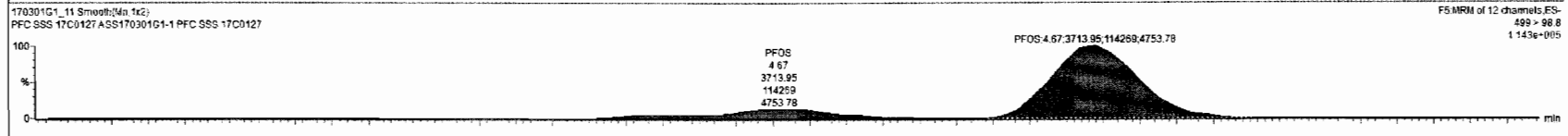
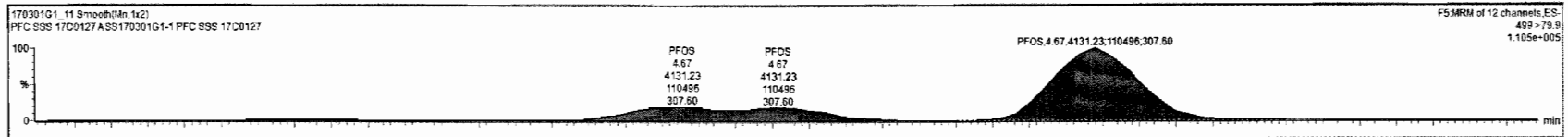
13C8-PFOS

170301G1_11

F5:MRM of 12 channels,ES-
507.0 > 79.9
4.414e+005



Item	Trcn	Area	DFP	WtPct	Prod RT	RT	Conc	>MDL	%Rec	DL	
1	PFBS	299 > 79.7	1.26e4	1.000	2.98	2.99	8.75	NO	87.5	0.0062441	
2	PFHpA	363 > 318.9	3.02e4	1.000	3.87	3.87	9.57	YES	95.7	0.0000000	
3	PFHxS	398.9 > 79.6	1.05e4	1.000	3.99	3.99	8.78	YES	87.6	0.0000000	
4	PFOA	413 > 368.7	2.68e4	1.000	4.27	4.27	9.54	YES	95.4	0.0000000	
5	PFNA	463 > 418.3	2.39e4	1.000	4.61	4.61	9.48	YES	94.8	0.0000000	
6	PFOS	499 > 79.9	4.65e3	1.000	4.67	4.67	8.42	YES	84.2	0.0096010	
7	13C3-PFBS	302.0 > 98.8	8.35e3	0.442	1.000	2.98	2.99	12.3	NO	98.5	0.0052804
8	13C4-PFHpA	367.2 > 321.8	2.14e4	1.12	1.000	3.86	3.87	12.5	NO	100.2	0.0032621
9	18O2-PFHxS	403 > 102.6	8.52e3	0.420	1.000	3.99	3.99	13.2	NO	105.9	0.0022771
10	13C2-PFOA	414.9 > 369.7	3.81e4	2.76	1.000	4.27	4.27	12.4	NO	99.2	0.0023340
11	13C5-PFNA	468.2 > 422.9	1.49e4	0.846	1.000	4.60	4.61	14.2	NO	113.4	0.0019428
12	13C8-PFOS	507.0 > 79.9	1.18e4	0.941	1.000	4.67	4.67	14.0	NO	112.3	0.0061276
13	13C5-PFHxS	318 > 272.9	3.12e4	1.00	1.000	3.29	3.36	12.5	NO	100.0	0.0046902
14	13C3-PFHxS	401.9 > 79.9	1.92e4	1.00	1.000	3.94	3.99	12.5	NO	100.0	0.0057740
15	13C8-PFOA	421.3 > 376	1.38e4	1.00	1.000	4.22	4.27	12.5	NO	100.0	0.0031169
16	13C9-PFNA	472.2 > 426.9	1.46e4	1.00	1.000	4.56	4.60	12.5	NO	100.0	0.0045131
17	13C4-PFOS	503.0 > 79.9	1.11e4	1.00	1.000	4.63	4.67	12.5	NO	100.0	0.0084349
18	Total PFBS	299 > 79.7	1.26e4	1.000	3.11				NO		0.0062736
19	Total PFHxS	398.9 > 79.6	1.27e4	1.000	4.09				NO		10.4
20	Total PFOA	413 > 368.7	2.69e4	1.000	4.39				NO		9.54
21	Total PFOS	499 > 79.9	4.65e3	1.000	4.62				NO		8.55



Dataset: Untitled

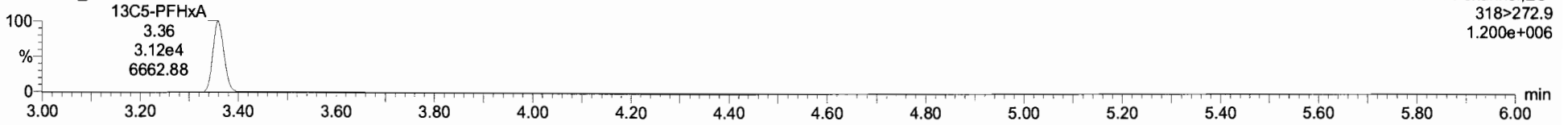
Last Altered: Thursday, March 02, 2017 08:29:33 Pacific Standard Time
Printed: Thursday, March 02, 2017 08:29:43 Pacific Standard Time

Name: 170301G1_11, Date: 01-Mar-2017, Time: 17:02:38, ID: SS170301G1-1 PFC SSS 17C0127, Description: PFC SSS 17C0127 A

13C5-PFHxA

170301G1_11

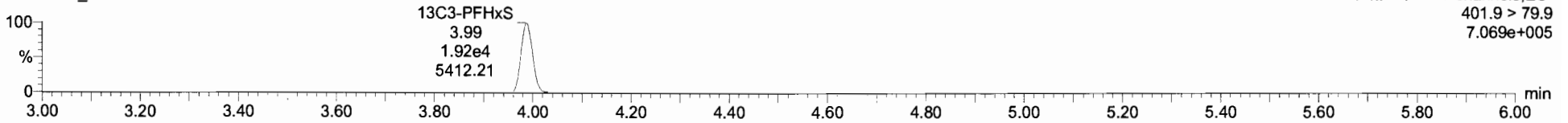
F3:MRM of 1 channel,ES-
318>272.9
1.200e+006



13C3-PFHxS

170301G1_11

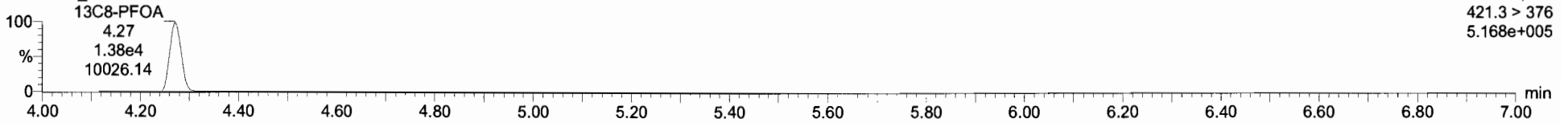
F4:MRM of 7 channels,ES-
401.9 > 79.9
7.069e+005



13C8-PFOA

170301G1_11

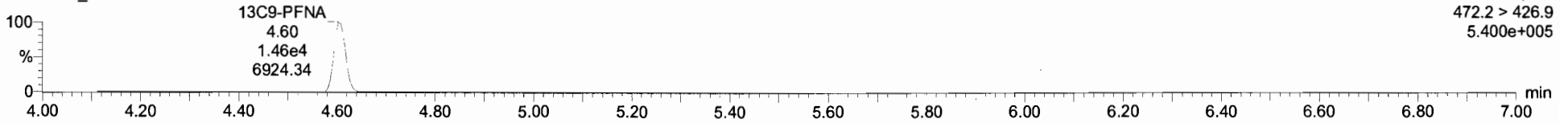
F5:MRM of 12 channels,ES-
421.3 > 376
5.168e+005



13C9-PFNA

170301G1_11

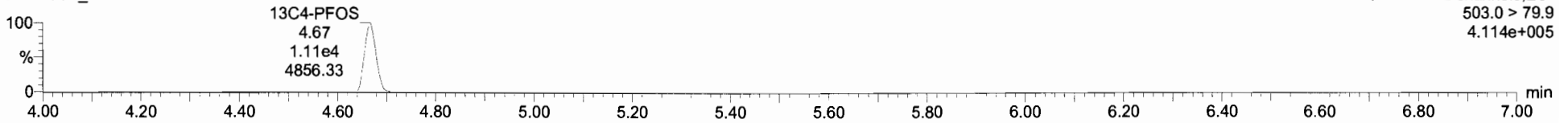
F5:MRM of 12 channels,ES-
472.2 > 426.9
5.400e+005



13C4-PFOS

170301G1_11

F5:MRM of 12 channels,ES-
503.0 > 79.9
4.114e+005



**DATA VALIDATION SUMMARY REPORT
COUPEVILLE, WASHINGTON**

Client: CH2M HILL, Inc., Corvallis, Oregon
 SDG: 1700261
 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-GW10D-0217	1700261-01	Water
2	WI-CV-EB01-022017	1700261-02	Water
3	WI-CV-GW06S-0217	1700261-03	Water
4	WI-CV-GW06SP-0217	1700261-04	Water
5	WI-CV-GW10S-0217	1700261-05	Water
6	WI-CV-EB03-022217	1700261-06	Water
7	WI-CV-GW06M-0217	1700261-07	Water
7MS	WI-CV-GW06M-0217MS	1700261-07MS	Water
7MSD	WI-CV-GW06M-0217MSD	1700261-07MSD	Water
8	WI-CV-EB02-022117	1700261-08	Water
9	WI-CV-EB04-022317	1700261-09	Water
10	WI-CV-GW13M-0217	1700261-10	Water

A full data validation was performed on the analytical data for six water samples and four aqueous equipment blank samples collected on February 20-23, 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 exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WI-CV-EB01-022017	None - ND	-	-	-
WI-CV-EB03-022217	None - ND	-	-	-
WI-CV-EB02-022117	None - ND	-	-	-
WI-CV-EB04-022317	Perfluorobutanesulfonate	2.99	None	All associated ND
	Perfluorooctanoic Acid	2.55	None	All associated ND
WI-CV-FB01-030217 (SDG 1700293)	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

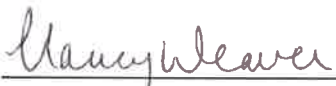
- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below.

Compound	WI-CV-GW06S-0217 ng/L	WI-CV-GW06SP-0217 ng/L	RPD	Qualifier
None	ND	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-GW10D-0217

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-01	Date Received:	24-Feb-2017 7:32		
Project:	Navy/Clean OLF Coupeville	Sample Size:	0.130 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	20-Feb-2017 11:45			Date Analyzed:	01-Mar-17 18:30	Column:	BEH C18		
Location:	WI-CV-MW10D								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.72	3.85	7.67		IS 13C3-PFBS	88.5	60 - 150	
PFOA	ND	0.624	1.92	7.67		IS 13C2-PFOA	97.0	60 - 150	
PFOS	ND	0.773	0.865	7.67		IS 13C8-PFOS	93.5	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 31241.7

2

Sample ID: WI-CV-EB01-022017				Modified EPA Method 537					
Client Data		Sample Data		Laboratory Data		Date Received: 24-Feb-2017 7:32			
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-02	Date Received:	24-Feb-2017 7:32		
Project:	NavyClean OLF Coupeville	Sample Size:	0.118 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	20-Feb-2017 12:00			Date Analyzed:	01-Mar-17 18:43	Column:	BEH C18		
Location:	Equipment Blank								
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	107	60- 150	
PFOA	ND	0.689	2.12	8.46		IS 13C2-PFOA	95.4	60- 150	
PFOS	ND	0.854	0.953	8.46		IS 13C8-PFOS	107	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

3

Sample ID: WI-CV-GW06S-0217				Modified EPA Method 537				
Client Data		Sample Data		Laboratory Data				
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-03	Date Received:	24-Feb-2017 7:32	
Project:	Navy/Clean OLF Coupeville	Sample Size:	0.126 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58	
Date Collected:	22-Feb-2017 12:05			Date Analyzed:	01-Mar-17 18:55	Column:	BEH C18	
Location:	WI-CV-MW06S							
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.77	3.97	7.93	IS 13C3-PFBS	114	60 - 150	
PFOA	ND	0.645	1.98	7.93	IS 13C2-PFOA	102	60 - 150	
PFOS	ND	0.800	0.893	7.93	IS 13C8-PFOS	99.0	60 - 150	

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

MW 31241.7

4

Sample ID: WI-CV-GW06SP-0217		Modified EPA Method 537								
Client Data		Laboratory Data								
Name:	CH2M Hill	Lab Sample:	1700261-04							
Project:	Navy/Clean OLF Coupeville	QC Batch:	B7B0118							
Date Collected:	22-Feb-2017 11:05	Date Analyzed:	01-Mar-17 19:08							
Location:	WI-CV-MW06S Spike	Column:	BEH C18							
		Date Received:	24-Feb-2017 7:32							
		Date Extracted:	24-Feb-2017 10:58							
Analyte	Conc. (ng/L)	DL	LOQ	LOD	Matrix	Sample Size	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.77	7.90	3.94	Groundwater	0.127 L	IS 13C3-PFBS	102	60 - 150	
PFOA	ND	0.643	7.90	1.97			IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.797	7.90	0.886			IS 13C8-PFOS	104	60 - 150	

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

DL - Detection limit
 RL - Reporting limit

31241.7

5

Sample ID: WI-CV-GW10S-0217				Modified EPA Method 537					
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-05	Date Received:	24-Feb-2017 7:32		
Project:	NavyClean OLF Coupeville	Sample Size:	0.120 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	22-Feb-2017 10:00			Date Analyzed:	01-Mar-17 19:20	Column:	BEH C18		
Location:	WI-CV-MW10S								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3.07	1.87	4.17	8.35	J	IS 13C3-PFBS	95.9	60 - 150	
PFOA	ND	0.679	2.08	8.35		IS 13C2-PFOA	90.3	60 - 150	
PFOS	ND	0.842	0.938	8.35		IS 13C8-PFOS	100	60 - 150	

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

DL - Detection limit
 RL - Reporting limit

nw 3/24/17

6

Sample ID: WI-CV-EB03-022217		Modified EPA Method 537			
Client Data		Sample Data		Laboratory Data	
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-06
Project:	Navy/Clean OLF Coupeville	Sample Size:	0.119 L	QC Batch:	B7B0118
Date Collected:	22-Feb-2017 11:15	DL	LOD	LOQ	Date Analyzed: 01-Mar-17 19:33
Location:	Equipment Blank	Conc. (ng/L)	LOQ	Qualifiers	Column: BEH C18
Analyte				Labeled Standard	Date Received: 24-Feb-2017 7:32
PFBS	ND	1.88	4.20	IS 13C3-PFBS	Date Extracted: 24-Feb-2017 10:58
PFOA	ND	0.682	2.10	IS 13C2-PFOA	
PFOS	ND	0.845	0.945	IS 13C8-PFOS	
					%R
					110
					105
					97.3
					LCL-UCL
					60 - 150
					60 - 150
					60 - 150

LCL-UCL - Lower control limit - upper control limit

Results reported to DL

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

Only the linear isomer is reported for all other analytes

DL - Detection limit

RL - Reporting limit

www.3124117

7

Sample ID: WI-CV-GW06M-0217				Modified EPA Method 537					
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-07	Date Received:	24-Feb-2017 7:32		
Project:	Navy/Clean OLF Coupeville	Sample Size:	0.128 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58		
Date Collected:	21-Feb-2017 14:25			Date Analyzed:	01-Mar-17 19:45	Column:	BEH C18		
Location:	WI-CV-MW06M								
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.75	3.91	7.81		IS 13C3-PFBS	107	60 - 150	
PFOA	ND	0.635	1.95	7.81		IS 13C2-PFOA	106	60 - 150	
PFOS	ND	0.787	0.879	7.81		IS 13C8-PFOS	110	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.

W312417

Sample ID: WI-CV-EB02-022117		Modified EPA Method 537			
Client Data		Sample Data		Laboratory Data	
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-08
Project:	NavyClean OLF Coupeville	Sample Size:	0.124 L	QC Batch:	B7B0118
Date Collected:	21-Feb-2017 16:10	DL		Date Analyzed:	01-Mar-17 20:23
Location:	Equipment Blank	Conc. (ng/L)		Column:	BEH C18
Analyte		DL	LOD	LOQ	Qualifiers
PFBS	ND	1.81	4.03	8.07	IS 13C3-PFBS
PFOA	ND	0.657	2.02	8.07	IS 13C2-PFOA
PFOS	ND	0.815	0.907	8.07	IS 13C8-PFOS
					%R
					91.5
					96.8
					95.4
					LCL-UCL
					60- 150
					60- 150
					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

9

Sample ID: WI-CV-EB04-022317		Modified EPA Method 537							
Client Data		Sample Data		Laboratory Data					
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-09				
Project:	Navy/Clean OLF Coupeville	Sample Size:	0.122 L	QC Batch:	B7B0118				
Date Collected:	23-Feb-2017 12:05			Date Analyzed:	01-Mar-17 21:51				
Location:	Equipment Blank			Column:	BEH C18				
				Date Received:	24-Feb-2017 7:32				
				Date Extracted:	24-Feb-2017 10:58				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	2.99	1.84	4.10	8.23	J	IS 13C3-PFBS	86.5	60 - 150	
PFOA	2.55	0.670	2.05	8.23	J	IS 13C2-PFOA	107	60 - 150	
PFOS	ND	0.830	0.922	8.23		IS 13C8-PFOS	105	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

Sample ID: WI-CV-GW13M-0217		Modified EPA Method 537					
Client Data			Sample Data		Laboratory Data		
Name:	CH2M Hill	Matrix:	Groundwater	Lab Sample:	1700261-10	Date Received:	24-Feb-2017 7:32
Project:	NavyClean OLF Coupeville	Sample Size:	0.129 L	QC Batch:	B7B0118	Date Extracted:	24-Feb-2017 10:58
Date Collected:	22-Feb-2017 16:25	DL	LOQ	Date Analyzed:	01-Mar-17 22:03	Column:	BEH C18
Location:	WI-CV-MW13M	Conc. (ng/L)	LOD	Labeled Standard	%R	LCL-UCL	Qualifiers
Analyte							
PFBS	139	1.74	3.88	IS 13C3-PFBS	92.2	60 - 150	
PFOA	20.4	0.633	1.94	IS 13C2-PFOA	117	60 - 150	
PFOS	ND	0.785	0.872	IS 13C8-PFOS	106	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