

December 04, 2014

Vista Project I.D.: 1400885

Ms. Melissa Helton
AMEC
9725 Cogdill Road
Knoxville, TN 37932

Dear Ms. Helton,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on November 20, 2014. This sample set was analyzed on a rush turn-around time, under your Project Name 'Griffiss AFB'.

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 NELAC 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. 1400885

Case Narrative

Sample Condition on Receipt:

One aqueous sample was received in good condition and within the method temperature requirements. The sample was received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

Modified EPA Method 537

The sample was extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

The sample was 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 the LOQ. The OPR recoveries were within the method acceptance criteria.

Two internal standard recoveries were outside the limits listed in QAPP Worksheet #28b: the recovery of 13C-PFOS was 52.6% in the Method Blank and 49.3% in sample "GRIFS-GW-004". The recoveries of all other standards for the aqueous QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1400885-01	GRIFS-GW-004	19-Nov-14 08:55	20-Nov-14 10:21	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537			
Matrix: Aqueous		QC Batch: B4L0014		Lab Sample: B4L0014-BLK1		Date Analyzed: 01-Dec-14 18:18 Column: BEH C18 Analyst: VMO			
Sample Size: 0.125 L		Date Extracted: 01-Dec-2014 8:59							
Analyte	Conc. (ng/L)	MDL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	ND	1.57	4.00	8.00		IS 13C-PFHxS	90.5	70 - 130	
PFHpA	ND	0.949	4.00	8.00		IS 13C-PFOA	107	70 - 130	
PFHxS	ND	0.562	4.00	8.00		IS 13C-PFOS	52.6	70 - 130	H
PFOS	ND	0.922	4.00	8.00					
PFOA	ND	1.02	4.00	8.00					
PFNA	ND	0.807	4.00	8.00					

LCL-UCL - Lower control limit - upper control limit
 Results reported to the MDL

Sample ID: OPR

Modified EPA Method 537

Matrix: Aqueous Sample Size: 0.125 L	QC Batch: B4L0014 Date Extracted: 01-Dec-2014 8:59	Lab Sample: B4L0014-BS1 Date Analyzed: 01-Dec-14 17:53 Column: BEH C18 Analyst: VMO					
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	16.1	16.0	101	70 - 130	IS 13C-PFHxS	94.0	70 - 130
PFHpA	18.1	16.0	113	70 - 130	IS 13C-PFOA	113	70 - 130
PFHxS	17.8	16.0	111	70 - 130	IS 13C-PFOS	60.2	70 - 130
PFOS	16.6	16.0	104	70 - 130			
PFOA	18.0	16.0	112	70 - 130			
PFNA	18.0	16.0	112	70 - 130			

LCL-UCL - Lower control limit - upper control limit

Sample ID: GRIFS-GW-004

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data			
Name:	AMEC	Matrix:	Aqueous	Lab Sample:	1400885-01	Date Received:	20-Nov-2014 10:21
Project:	Griffiss AFB	Sample Size:	0.155 L	QC Batch:	B4L0014	Date Extracted:	01-Dec-2014 8:59
Date Collected:	19-Nov-2014 8:55			Date Analyzed:	01-Dec-14 18:56	Column:	BEH C18
Location:					02-Dec-14 11:50	Column:	BEH C18
						Analyst:	AC

Analyte	Conc. (ng/L)	MDL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	15.4	1.26	3.22	6.43		IS 13C-PFHxS	87.4	70 - 130	
PFHpA	54.5	0.763	3.22	6.43		IS 13C-PFOA	118	70 - 130	
PFHxS	290	22.6	161	322	J, D	IS 13C-PFOS	49.3	70 - 130	D, H
PFOS	3590	37.1	161	322	D				
PFOA	74.3	0.820	3.22	6.43					
PFNA	4.28	0.649	3.22	6.43	J				

LCL-UCL - Lower control limit - upper control limit

Results reported to the MDL

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The amount detected is above the High Calibration Limit.
H	Recovery was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
P	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	Method Detection Limit as determined by 40 CFR 136, Appendix B.
EMPC	Estimated Maximum Possible Concentration
M	Estimated Maximum Possible Concentration (CA Region 2)
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
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
Alabama Department of Environmental Management	41610
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
Michigan Department of Natural Resources	9932
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
North Carolina Department of Health & Human Services	06700
Oregon Laboratory Accreditation Program	4042-002
Pennsylvania Department of Environmental Protection	011
South Carolina Department of Health	87002001
Tennessee Department of Environment & Conservation	TN02996
Texas Commission on Environmental Quality	T104704189-14-5
Virginia Department of General Services	3138
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160



CHAIN OF CUSTODY

FOR LABORATORY USE ONLY
 Storage Secured
 Laboratory Project ID: _____ Yes No
 Storage ID: _____ Temp: _____ °C

#1400885 2.4°C

Project I.D.: Griffes AFB P.O.# _____ Sampler: _____
 (Name)

TAT: (Check One):
 Standard: 21 Days
 Rush (surcharge may apply):
 14 days 7 days Specify: _____

Invoice to: Name _____ Company AMEC Address Quorum office Park City Chelmsford State MA Zip 01824 Ph# _____ Fax# _____
 Relinquished by: (Signature and Printed Name) Molt J Date: 11/17/14 Time: 1700 Received by: (Signature and Printed Name) _____ Date: 11-20-14 Time: 10:32
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

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

SHIP TO: Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520 • Fax (916) 673-0106			Method of Shipment: _____	Add Analysis(es) Requested																			
ATTN: _____			Tracking No.: _____	Container(s)																			
Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	PFCS	
<u>Griffes-GW-004</u>	<u>11/19/14</u>	<u>8:55</u>	<u>-</u>	<u>1</u>	<u>GW</u>	<u>GW</u>																	<u>X</u>

Special Instructions/Comments: PFCS ANALYSIS

SEND DOCUMENTATION AND RESULTS TO:

Name: AMEC
 Company: Quorum office Park
 Address: 371 Mill Road
 City: Chelmsford State: MA Zip: 01824
 Phone: _____ Fax: _____
 Email: _____
 Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, AQ = Aqueous, O = Other

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

*Bottle Preservative Type: T = Thiosulfate, O = Other _____

WHITE - ORIGINAL YELLOW - ARCHIVE PINK - COPY

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1400885 TAT 14

Samples Arrival:	Date/Time	Initials:	Location: <u>WR-2</u>			
	<u>11/20/14 1021</u>	<u>KC</u>	Shelf/Rack: <u>N/A</u>			
Logged In:	Date/Time	Initials:	Location: <u>WR-2</u>			
	<u>11/21/14 0822</u>	<u>UBJB KC</u>	Shelf/Rack: <u>B5</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>2.4</u> (uncorrected)	Time: <u>1030</u>		Thermometer ID: <u>IR-1</u>			
Temp °C: <u>2.4</u> (corrected)						

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?				✓
Shipping Documentation Present?		✓		
Airbill	Trk # <u>8065 03118052</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?				✓
Na ₂ S ₂ O ₃ Preservation Documented?	<u>NA</u>	COC	Sample Container	None
Shipping Container	<input checked="" type="radio"/> Vista	Client	<input checked="" type="radio"/> Retain	Return Dispose

Comments:

EXTRACTION INFORMATION



Process Sheet

Workorder: 1400885

Workorder Due: 04-Dec-14 00:00

Prep Expiration: 12/03/2014
Client: AMEC

TAT: 14

Method: 537 PFC 6 Analyte List DOD (LOQ as mRL)

Matrix: Aqueous

Client Matrix: Aqueous

~~Percent~~
Percent Solids

Prep Batch: B4L0014

Prep Data Entered: 12/1/14 es
Date and Initials

Initial Sequence: S4L0002

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400885-01	<input checked="" type="checkbox"/>	GRIFS-GW-004	20-Nov-14 10:21	WR-2 B-5	

Vista PM: Martha Maier

Vial Box ID: _____

Sample Reconciled By: es 12/1/14

D2216-90

BATCH ID

B4L0013

Analyst: E. Schneider

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

12/1/14 9:25

HRMS-2

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH			Cl-
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				Before	After	Acid Added	
					28 12/1/14				28 12/1/14			
	1400881-01		Sample	1.31	6.98			2.11/14	7	NA	NA	0
	1400881-02		Sample	1.32	8.79				7			0
	1400885-01		Sample	1.32	7.93				7			0
	1400890-01		Sample	1.31	5.66				7			0
	1400894-01		Sample	1.32	9.31				7			0
	1400894-02		Sample	1.30	7.86				7			0
	1400894-03		Sample	1.32	9.62				7			0
	1400894-04		Sample	1.32	7.22				7			0
	1400894-05		Sample	1.31	7.80				7			0
	1400894-13		Sample	1.31	7.26				7			0
	1400894-14		Sample	1.33	9.04				7			0
	1400894-18		Sample	1.32	6.37				7			0

Aqueous Sample Size Determination



Project: B4L0014

Sample ID	Container Weight (g)		Sample Wt (g)
	Full	Empty	
1400881-1	148.02	19.98	128.04
881-2	145.22	19.91	125.31
885-1	155.44	28.41	127.03
890-1	163.23	27.55	135.68
894-1	141.16	19.80	121.36
894-2	146.68	19.92	126.76
894-3	156.93	27.79	129.14
894-4	153.92	27.52	126.40
894-5	154.47	27.59	126.88
894-13	142.74	19.80	122.94
894-14	146.88	20.07	126.81
894-18	149.27	19.89	129.38

Procedure:

- Tare the balance.
- Record weight of bottle/cap and sample.
- If all of the sample is used, drain overnight.
- Tare the balance.
- Record weight of empty bottle/cap.
- Enter Sample Weight in HALs and on the Extraction Sheet*.

* Record in 'Liters', rounded to 3 decimal places; assumes density of 1 g/mL

Notes:

PREPARATION BENCH SHEET

Matrix: Aqueous

B4L0014

Chemist: E. Schneider

Method: 537 PFC 6 Analyte List

Prepared using: LCMS - SPE Extraction-LCMS

Prep Date/Time: 01-Dec-14 08:59

C	VISTA Sample ID	Sample Amt. (g) L	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	NA	NA	C4L0001	RS
					Pre-Ext	Extraction	SPE	CHEM/WIT DATE
<input type="checkbox"/>	B4L0014-BLK1	(0.125)	ES V6 12/1/14	N/A	N/A	N/A	ES 12/1/14	ES V6 12/1/14
<input type="checkbox"/>	B4L0014-BS1	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400881-01	0.14802	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400881-02	0.14522	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400885-01	0.15544	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400890-01	0.16323	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-01	0.14116	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-02	0.14668	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-03	0.15693	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-04	0.15392	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-05	0.15447	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-13	0.14274	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-14	0.14688	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400894-18	0.14927	↓	↓	↓	↓	↓	↓

IS Name <u>14F1203, 10µl</u>	NS Name <u>14F1204, 20µl</u>	CRS Name <u>N/A</u>	RS Name <u>14F1206, 10µl</u>	Cycle Time <u>N/A</u>	Ext SOLV: <u>N/A</u>	Check Out: <u>ES 12/1/14</u>
				Start Date/Time <u>N/A</u>	SPE Chem: <u>Start x AW 33µl</u>	Chemist/Date: <u>ES 12/1/14</u>
				Stop Date/Time <u>N/A</u>	Ele SOLV: <u>0.5% NH4OH in MeOH</u>	Check In: <u>Empty</u>
					Final Volume(s) <u>500µl</u>	Chemist/Date: <u>Empty</u>
						Balance ID: <u>HRMS-2</u>

Comments:

SAMPLE DATA

Modified EPA Method 537

Dataset: L:\Masslynx Common\Q1\141201G3_5.qld

Last Altered: Tuesday, December 02, 2014 16:48:43 Pacific Standard Time
Printed: Tuesday, December 02, 2014 16:49:56 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141201G3_5, Date: 01-Dec-2014, Time: 18:18:46, ID: B4L0014-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7		1.421	0.125			
2	5 PFHpA	363 > 318.9		0.918	0.125			
3	6 PFHxS	398.9 > 79.6		1.029	0.125			
4	7 PFOS	499 > 98.7		0.939	0.125			
5	9 PFOA	413 > 368.7		0.764	0.125			
6	11 PFNA	463 > 418.8		0.606	0.125			
7	15 13C-PFHxS	403 > 102.6	2.64e4	0.463	0.125	4.36	72.4	90.5
8	16 13C-PFOA	414.9 > 369.7	4.80e4	0.713	0.125	4.69	85.4	106.7
9	18 13C-PFOS	503.2 > 79.8	1.74e4	0.909	0.125	4.98	42.1	52.6
10	19 13C-PFHxA	315 > 269.8	6.31e4	1.000	0.125	3.86	80.0	100.0
11	20 13C-PFDA	515.1 > 470	3.64e4	1.000	0.125	5.24	80.0	100.0

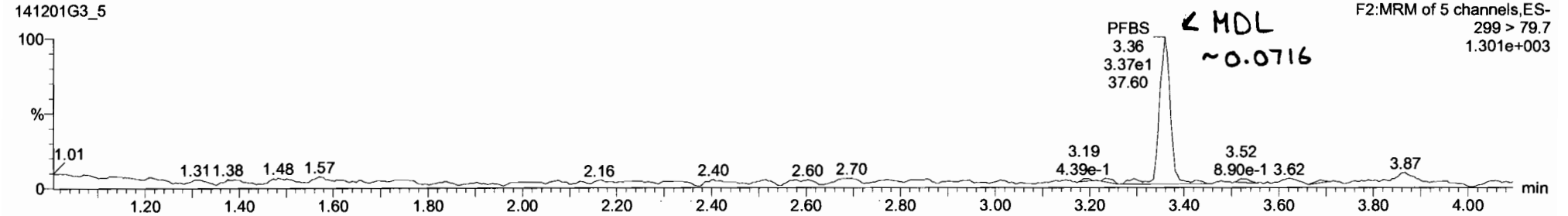
V6 12/2/14
12/3/14

Dataset: Untitled

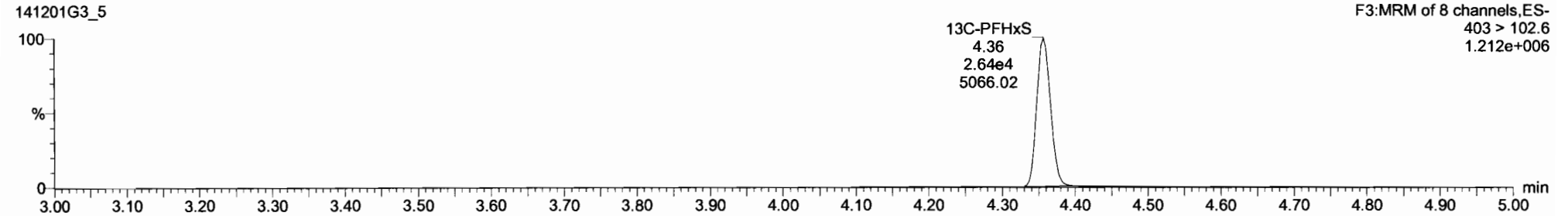
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Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_5, Date: 01-Dec-2014, Time: 18:18:46, ID: B4L0014-BLK1 Method Blank 0.125, Description: Method Blank

PFBS



13C-PFHxS



Dataset: Untitled

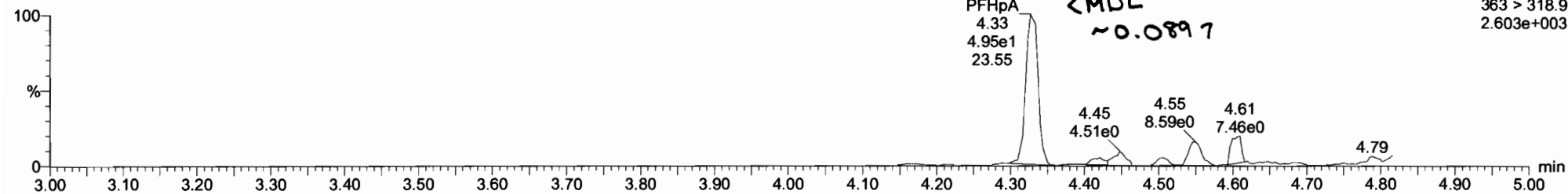
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_5, Date: 01-Dec-2014, Time: 18:18:46, ID: B4L0014-BLK1 Method Blank 0.125, Description: Method Blank

PFHpA

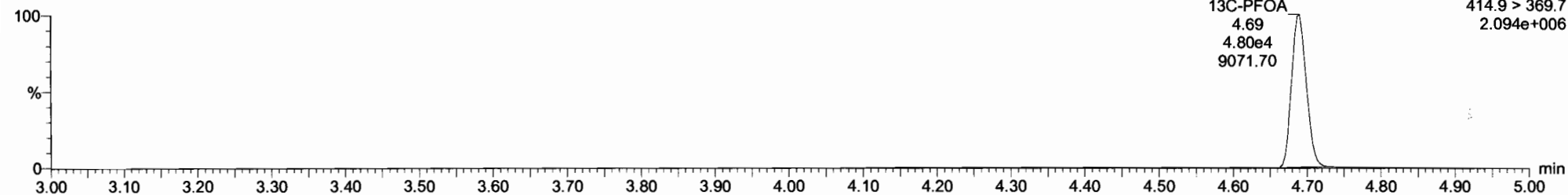
141201G3_5



F3:MRM of 8 channels,ES-
363 > 318.9
2.603e+003

13C-PFOA

141201G3_5



13C-PFOA
4.69
4.80e4
9071.70
F3:MRM of 8 channels,ES-
414.9 > 369.7
2.094e+006

Dataset: Untitled

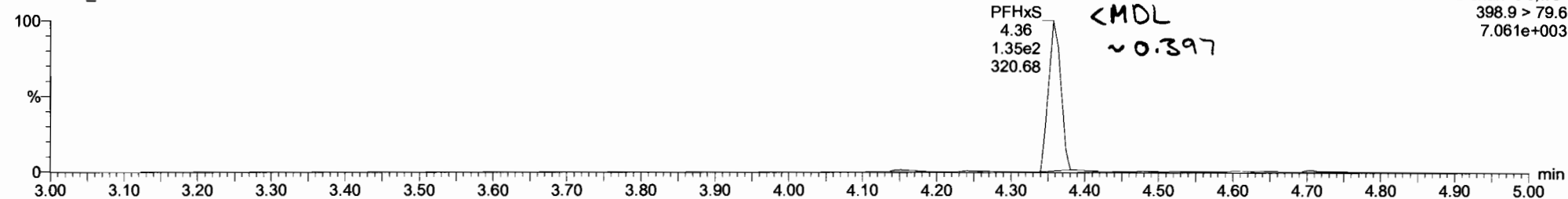
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Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

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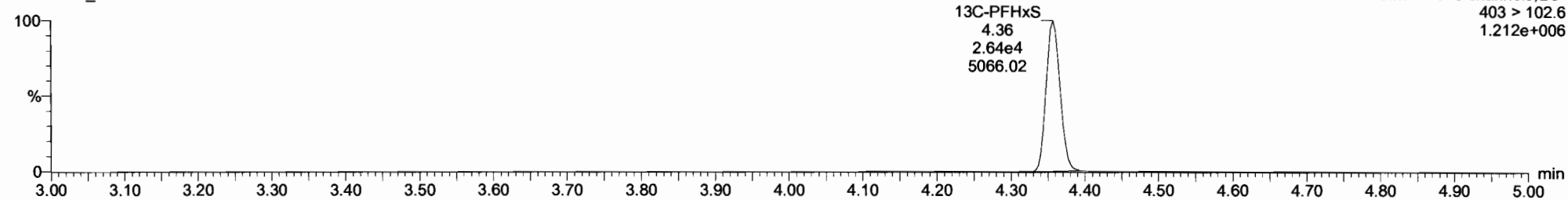
PFHxS

141201G3_5



13C-PFHxS

141201G3_5



Dataset: Untitled

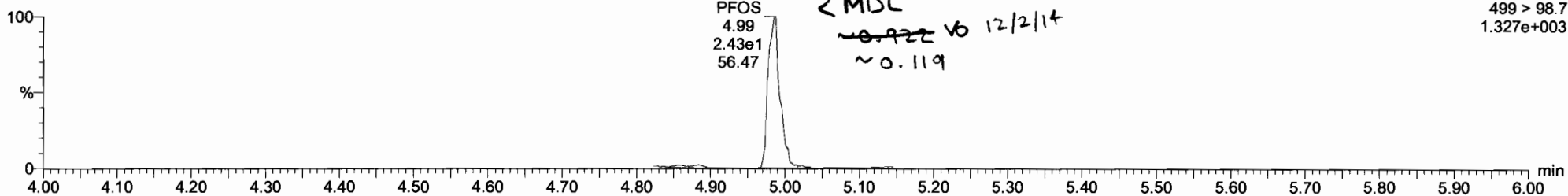
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_5, Date: 01-Dec-2014, Time: 18:18:46, ID: B4L0014-BLK1 Method Blank 0.125, Description: Method Blank

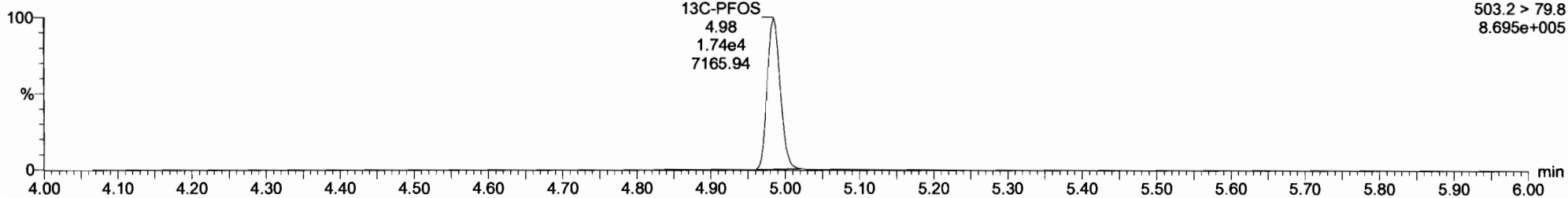
PFOS

141201G3_5



13C-PFOS

141201G3_5



Dataset: Untitled

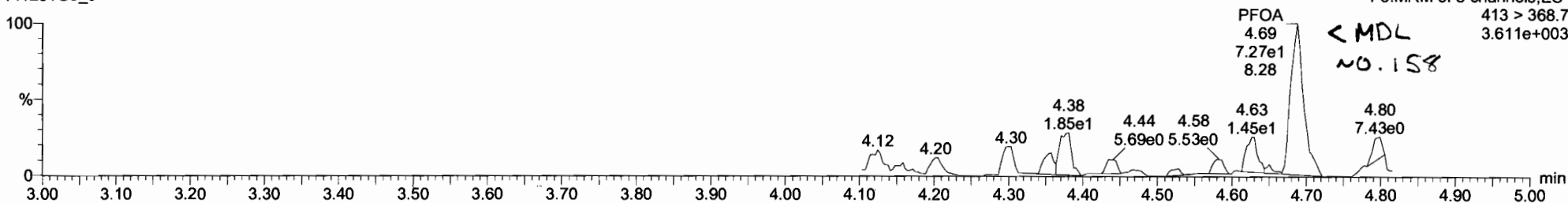
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Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_5, Date: 01-Dec-2014, Time: 18:18:46, ID: B4L0014-BLK1 Method Blank 0.125, Description: Method Blank

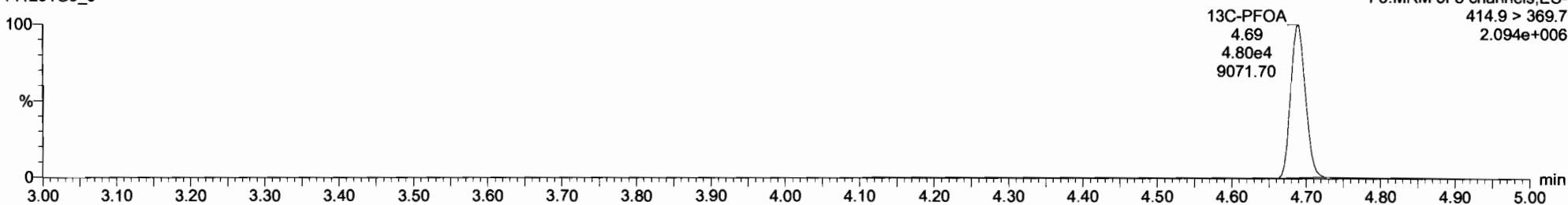
PFOA

141201G3_5



13C-PFOA

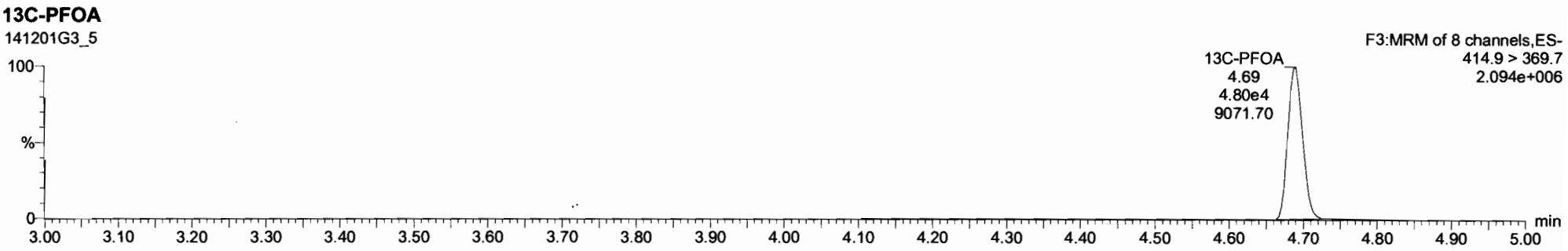
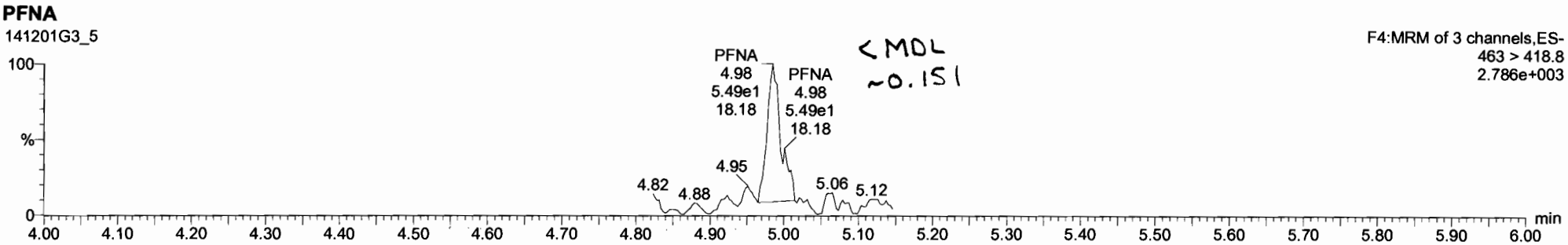
141201G3_5



Dataset: Untitled

Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time
Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_5, Date: 01-Dec-2014, Time: 18:18:46, ID: B4L0014-BLK1 Method Blank 0.125, Description: Method Blank



Dataset: Untitled

Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

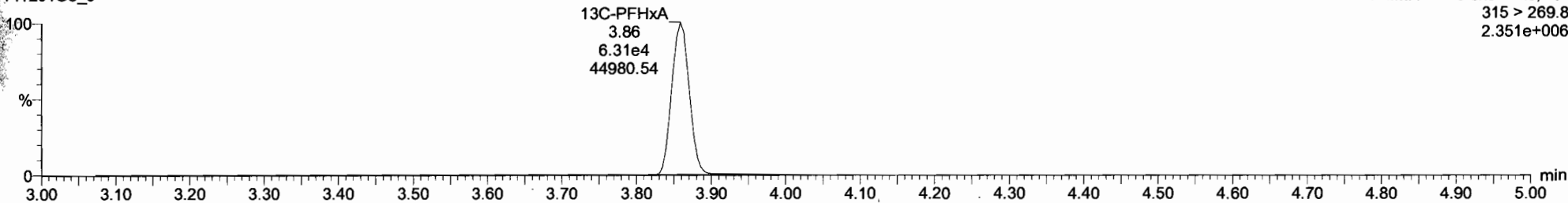
Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_5, Date: 01-Dec-2014, Time: 18:18:46, ID: B4L0014-BLK1 Method Blank 0.125, Description: Method Blank

13C-PFHxA

141201G3_5

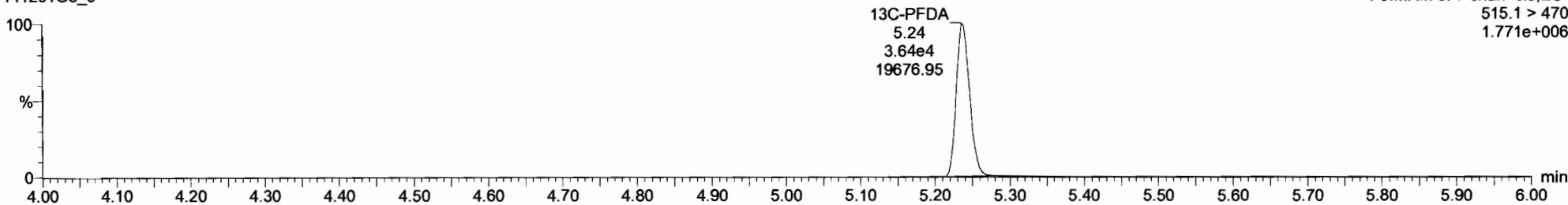
F2:MRM of 5 channels,ES-
315 > 269.8
2.351e+006



13C-PFDA

141201G3_5

F5:MRM of 7 channels,ES-
515.1 > 470
1.771e+006



Dataset: L:\Masslynx Common\Q1\141201G3_3.qld

Last Altered: Tuesday, December 02, 2014 16:15:46 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:43:59 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Response	RRF	WI/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	7.38e3	1.421	0.125	3.36	16.1	
2	5 PFHpA	363 > 318.9	9.97e3	0.918	0.125	4.33	18.1	
3	6 PFHxS	398.9 > 79.6	5.91e3	1.029	0.125	4.36	17.8	
4	7 PFOS	499 > 98.7	3.45e3	0.939	0.125	4.99	16.6	
5	9 PFOA	413 > 368.7	8.24e3	0.764	0.125	4.69	18.0	
6	11 PFNA	463 > 418.8	6.55e3	0.606	0.125	4.99	18.0	
7	15 13C-PFHxS	403 > 102.6	2.58e4	0.463	0.125	4.36	75.2	94.0
8	16 13C-PFOA	414.9 > 369.7	4.80e4	0.713	0.125	4.69	90.7	113.4
9	18 13C-PFOS	503.2 > 79.8	1.77e4	0.909	0.125	4.98	48.2	60.2
10	19 13C-PFHxA	315 > 269.8	5.93e4	1.000	0.125	3.86	80.0	100.0
11	20 13C-PFDA	515.1 > 470	3.23e4	1.000	0.125	5.24	80.0	100.0

V6 12/2/14
 M/V 12/2/14

Dataset: Untitled

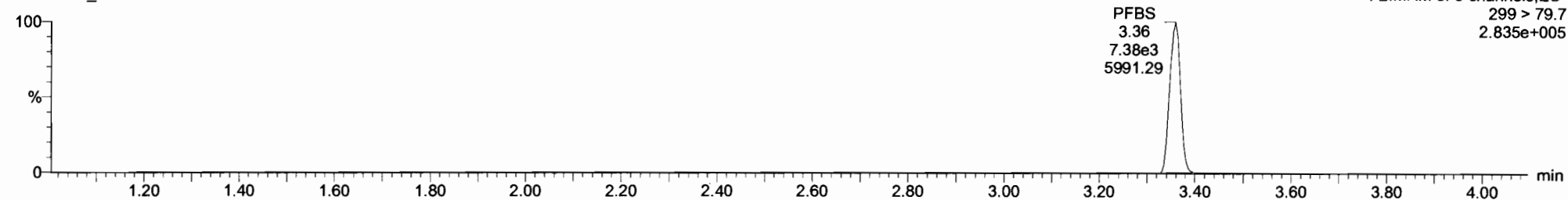
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

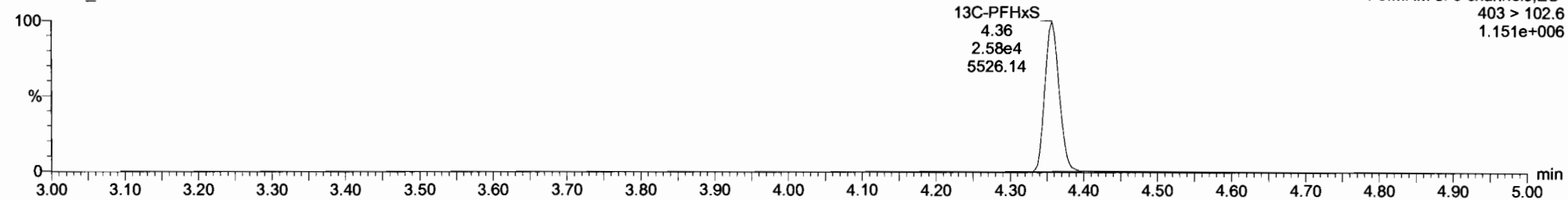
PFBS

141201G3_3



13C-PFHxS

141201G3_3



Dataset: Untitled

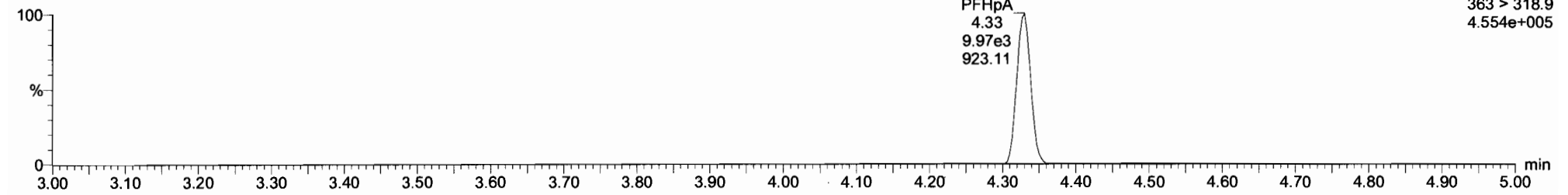
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

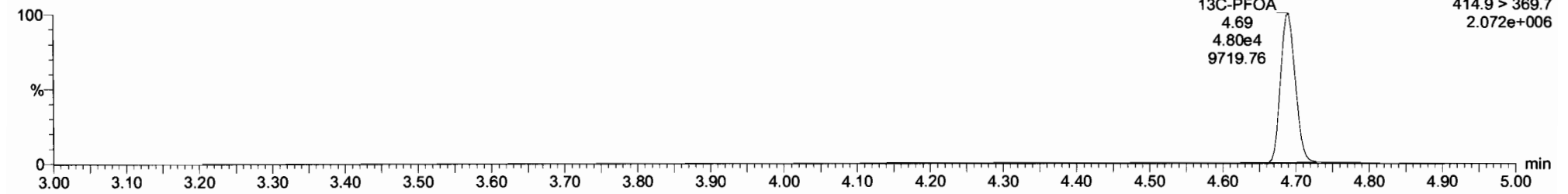
PFHpA

141201G3_3



13C-PFOA

141201G3_3



Dataset: Untitled

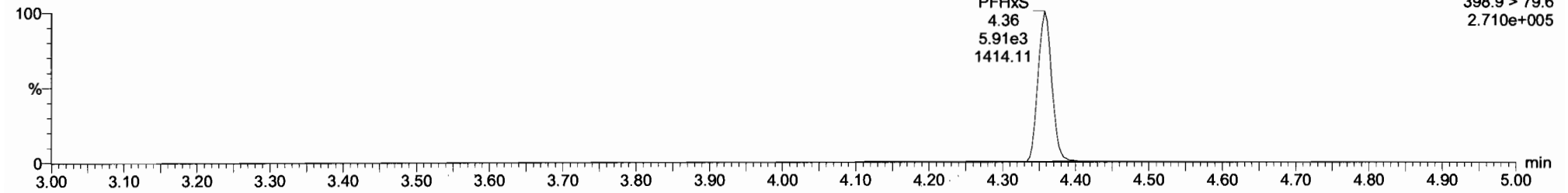
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Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

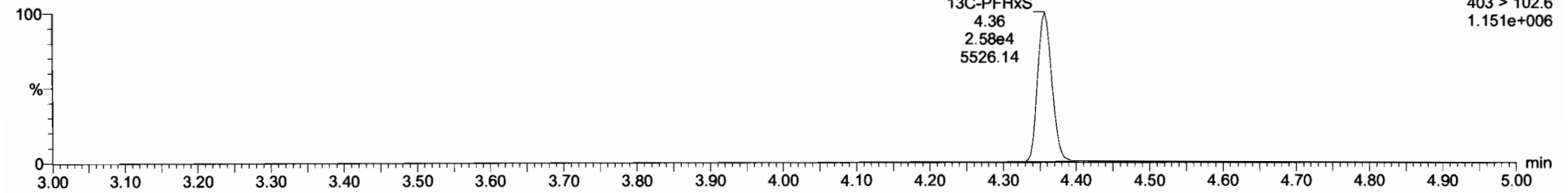
PFHxS

141201G3_3



¹³C-PFHxS

141201G3_3



Dataset: Untitled

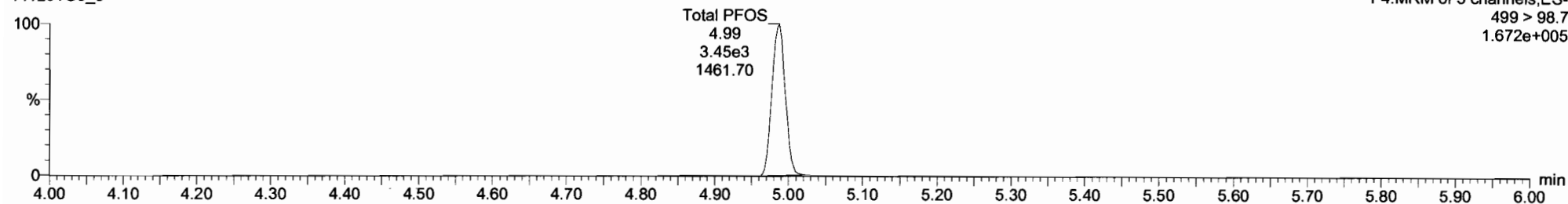
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

PFOS

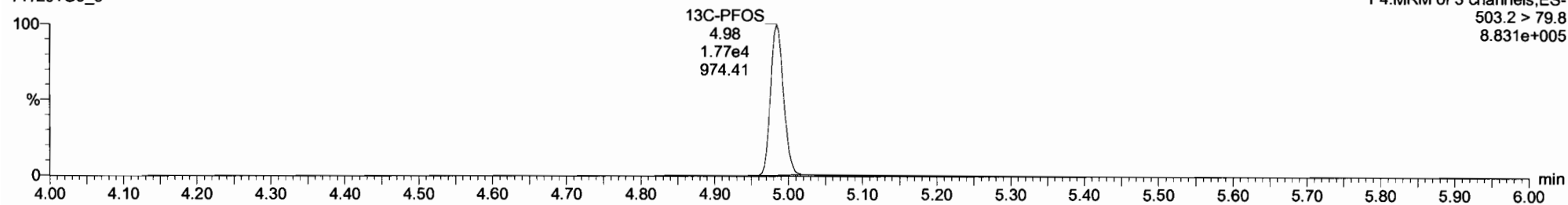
141201G3_3



F4:MRM of 3 channels,ES-
499 > 98.7
1.672e+005

¹³C-PFOS

141201G3_3



F4:MRM of 3 channels,ES-
503.2 > 79.8
8.831e+005

Dataset: Untitled

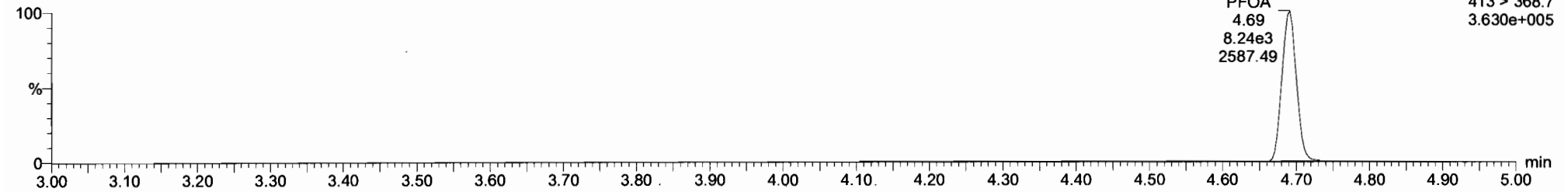
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

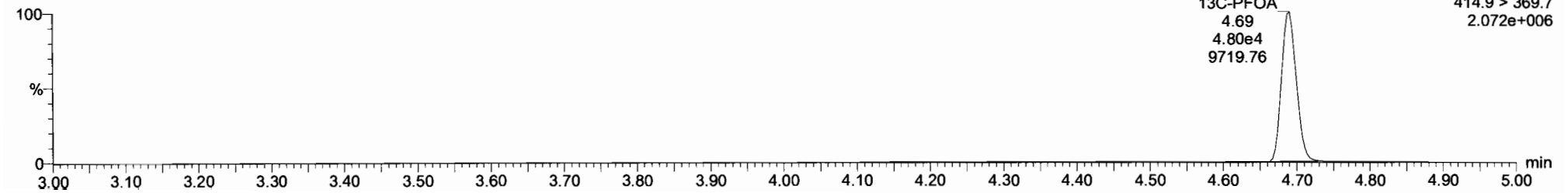
PFOA

141201G3_3



¹³C-PFOA

141201G3_3



Dataset: Untitled

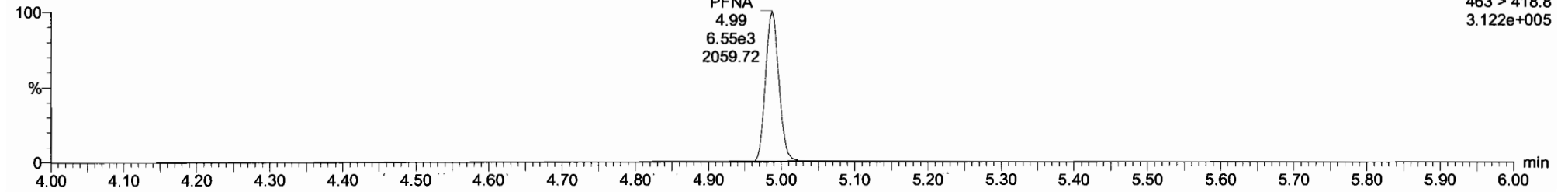
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

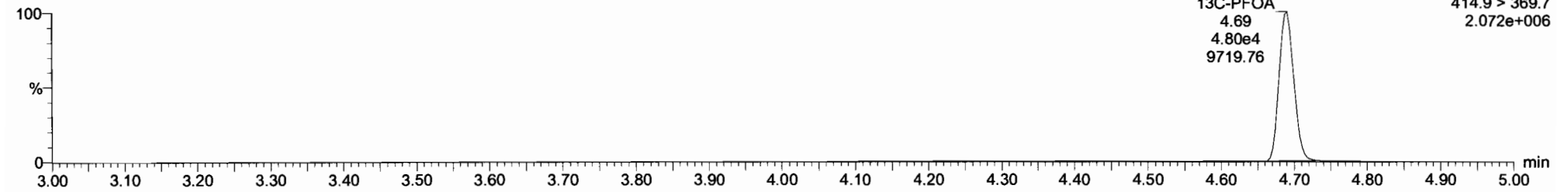
PFNA

141201G3_3



13C-PFOA

141201G3_3



Dataset: Untitled

Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

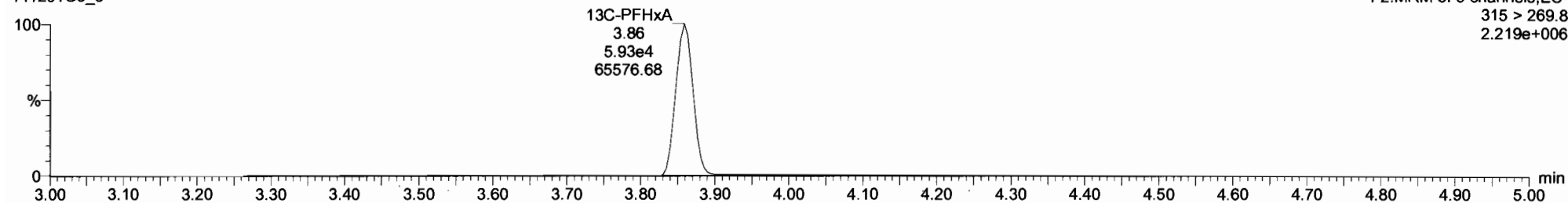
Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_3, Date: 01-Dec-2014, Time: 17:53:23, ID: B4L0014-BS1 OPR 0.125, Description: OPR

13C-PFHxA

141201G3_3

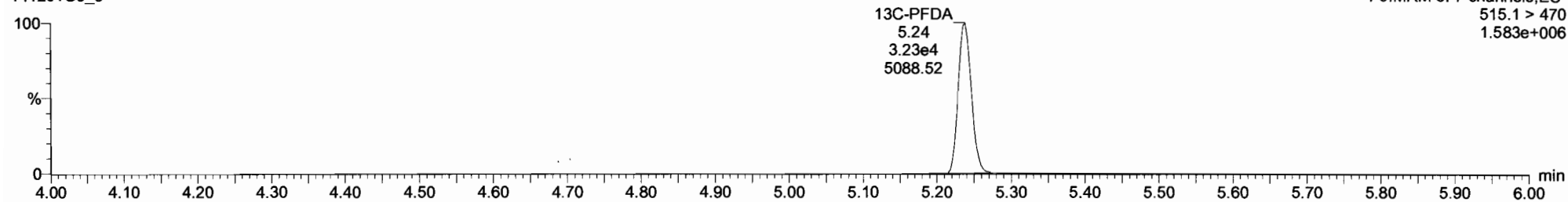
F2:MRM of 5 channels,ES-
315 > 269.8
2.219e+006



13C-PFDA

141201G3_3

F5:MRM of 7 channels,ES-
515.1 > 470
1.583e+006



Dataset: C:\Projects\Method_1694.PRO\Results\141201G3\141201G3_8.qld

Last Altered: Wednesday, December 03, 2014 13:22:33 Pacific Standard Time

Printed: Wednesday, December 03, 2014 13:23:59 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141201G3_8, Date: 01-Dec-2014, Time: 18:56:50, ID: 1400885-01 GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

#	Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	7.80e3	1.421	0.155	3.35	15.4	
2	5 PFHpA	363 > 318.9	3.72e4	0.918	0.155	4.33	54.5	
3	22 Total PFHxS	398.9 > 79.6			0.155		349 E*	
4	21 Total PFOS	499 > 98.7			0.155		3840 E*	
5	9 PFOA	413 > 368.7	4.22e4	0.764	0.155	4.69	74.3	
6	11 PFNA	463 > 418.8	1.92e3	0.606	0.155	4.99	4.28	
7	15 13C-PFHxS	403 > 102.6	2.30e4	0.463	0.155	4.36	56.3	87.4
8	16 13C-PFOA	414.9 > 369.7	4.77e4	0.713	0.155	4.69	75.9	117.9
9	17 13C-6:2 FTG	420.1 > 400.0	1.03e4	0.107	0.155	4.00	124	192.1
10	18 13C-PFOS	503.2 > 79.8	7.48e3	0.909	0.155	4.98	13.6	21.2 *
11	19 13C-PFHxA	315 > 269.8	5.68e4	1.000	0.155	3.86	64.3	100.0
12	20 13C-PFDA	515.1 > 470	3.89e4	1.000	0.155	5.24	64.3	100.0

AC
12/3/14

AC
12/3/14

* see dilution

Dataset: Untitled

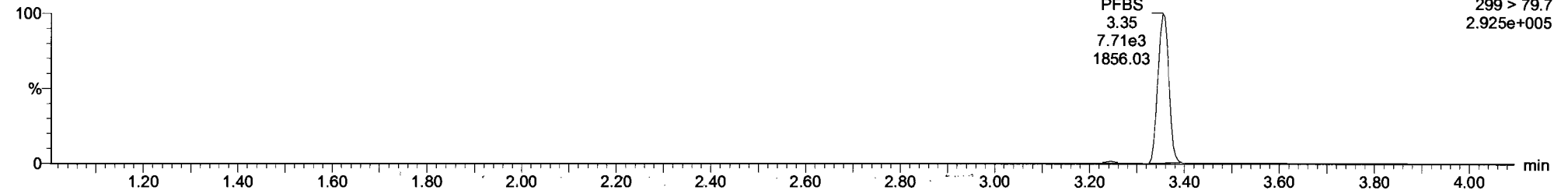
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_8, Date: 01-Dec-2014, Time: 18:56:50, ID: 1400885-01 GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

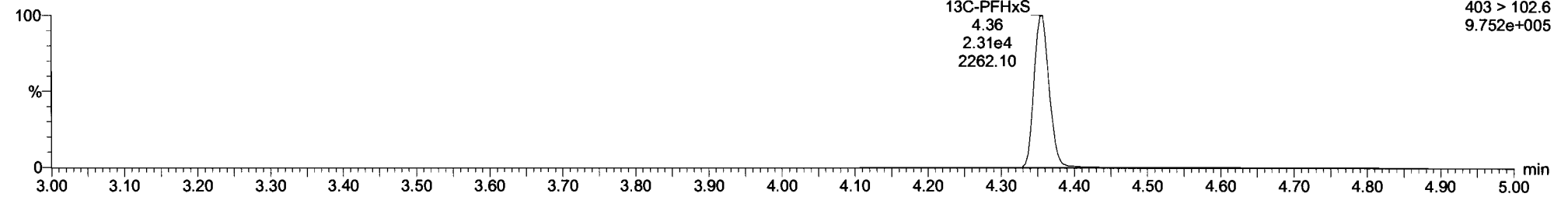
PFBS

141201G3_8



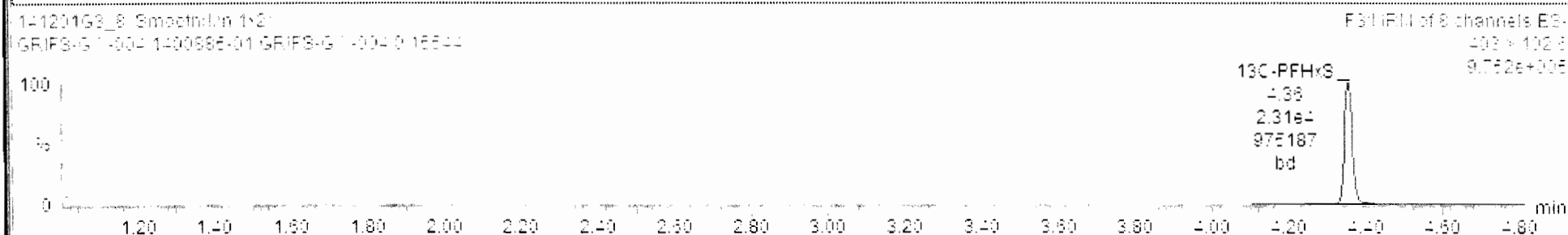
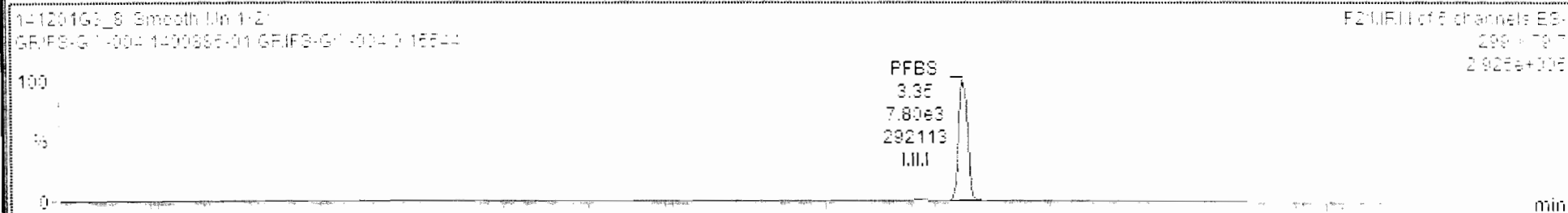
13C-PFHxS

141201G3_8



141201G3_8 - 1400885-01 GRIFS-GW-004 0.15544 - GRIFS-GW-004

#	Name	Trace	Area	RRF	WtVol	RT	Conc.	%Rec	DL
1	PFBS	212 x 133	1.33e2	0.327	0.155	2.17	7.30		0.0550583
2	PFPeL	233.1 x 213.3	4.73e4	1.03	0.155	3.20	32.4		0.0335337
2	PFBS	299 x 79.7	7.80e2	1.42	0.155	3.35	15.3		0.0182037
4	PFHxL	312.2 x 113.7	3.44e3	0.0732	0.155	3.33	33.3		0.0443333
5	PFHxL	332 x 313.3	3.33e4	0.313	0.155	4.33	34.0		0.0427323
3	PFHxS	333.3 x 73.3	1.04e3	1.03	0.155	4.33	23.3		0.0374152
7	PFOS	433 x 33.7	3.21e3	0.333	0.155	4.33	23.0		0.0000000
8	PFHxS	443 x 33.7	4.31e3	0.331	0.155	4.70	33.1		0.0153712
5	PFOL	413 x 333.7	4.22e4	0.734	0.155	4.33	74.3		0.0373003
10	3:2 FFS	427.1 x 407	2.01e4	0.331	0.155	4.33	133		0.1320040
11	PFHxL	433 x 413.3	1.32e3	0.303	0.155	4.33	4.23		0.0133221
12	PFOL	513 x 433.3	7.30e2	0.332	0.155	5.24	1.33		0.0233703
13	3:2 FFS	527 x 503.3	2.23e4	0.411	0.155	5.23	133		0.0245131
14	PFOS	533.3 x 33.7	2.02e1	0.123	0.155	5.44	0.333		0.0242221



Dataset: Untitled

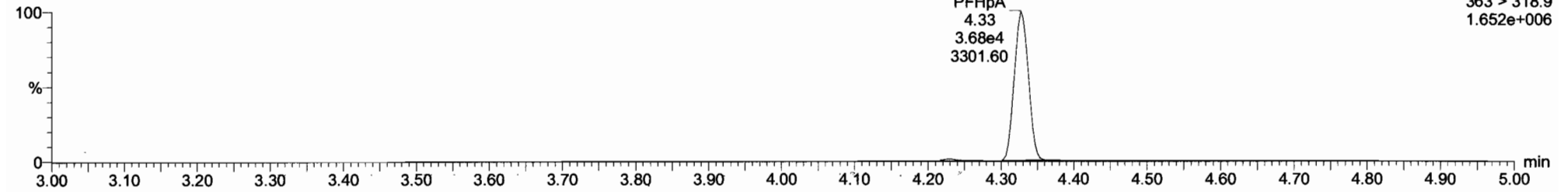
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_8, Date: 01-Dec-2014, Time: 18:56:50, ID: 1400885-01 GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

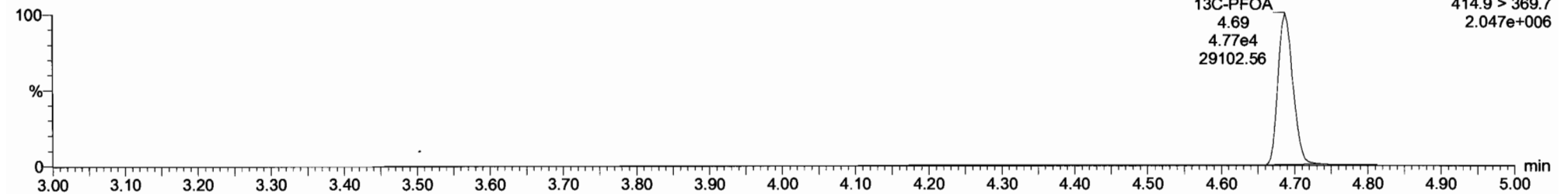
PFHpA

141201G3_8



13C-PFOA

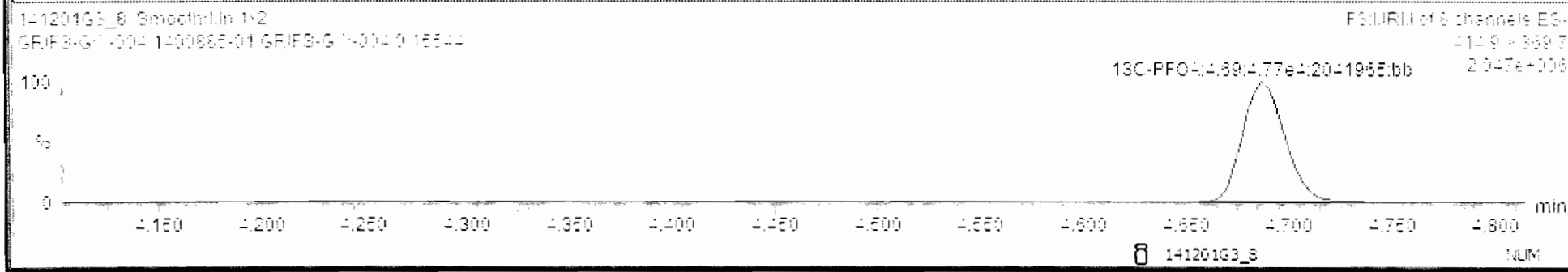
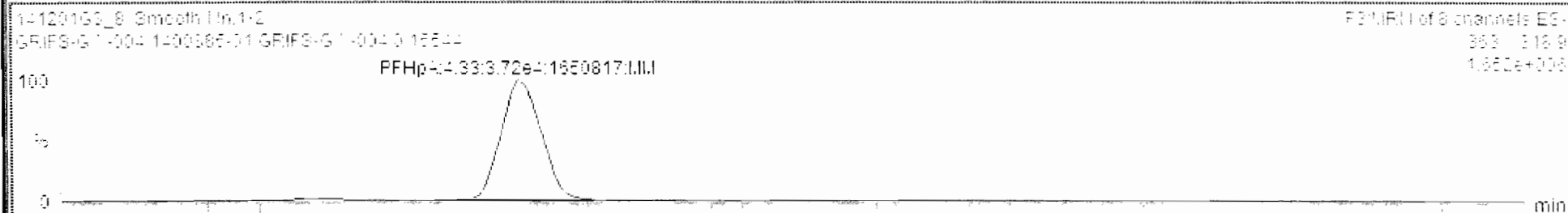
141201G3_8





141201G3_8 - 1400885-01 GRIFS-GW-004 0.15544 - GRIFS-GW-004

#	Name	Trace	Area	RRF	WtVol	RT	Conc.	%Rec	DL
1	PFBS	213 x 199	1.89e2	0.327	0.155	2.17	7.60		0.0590583
2	PFPeA	293.1 x 218.9	4.78e4	1.03	0.155	3.20	92.4		0.0335387
3	PFBS	299 x 79.7	7.80e2	1.42	0.155	3.25	19.3		0.0182087
4	PFHpA	213.2 x 119.7	3.44e2	0.0732	0.155	3.89	93.3		0.0448356
5	PFHpA	283 x 218.9	3.72e4	0.918	0.155	4.23	94.6		0.0427628
6	PFHpS	368.9 x 79.6	1.04e3	1.03	0.155	4.28	29.3		0.0574152
7	PFOS	499 x 98.7	3.21e3	0.939	0.155	4.98	29.0		0.0000000
8	PFHpS	448 x 98.7	4.81e2	0.381	0.155	4.70	25.1		0.0158713
9	PFOA	413 x 389.7	4.22e4	0.794	0.155	4.89	74.3		0.0278008
10	3:2 FTS	427.1 x 407	2.01e4	0.381	0.155	4.89	19.6		0.1920040
11	PFlA	493 x 418.6	1.92e2	0.803	0.155	4.99	4.26		0.0198221
12	PFD	513 x 488.6	7.90e2	0.852	0.155	5.24	1.93		0.0289703
13	3:2 FTS	627 x 608.9	2.28e4	0.411	0.155	5.25	19.3		0.0245151
14	PFS	698.6 x 98.7	2.02e1	0.123	0.155	5.44	0.993		0.0342221



Dataset: Untitled

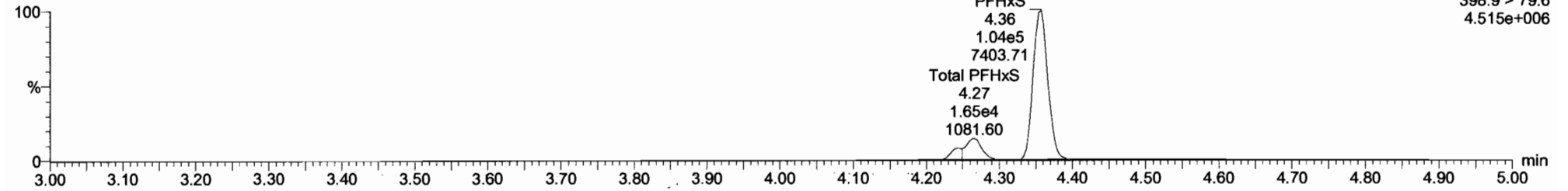
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_8, Date: 01-Dec-2014, Time: 18:56:50, ID: 1400885-01 GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

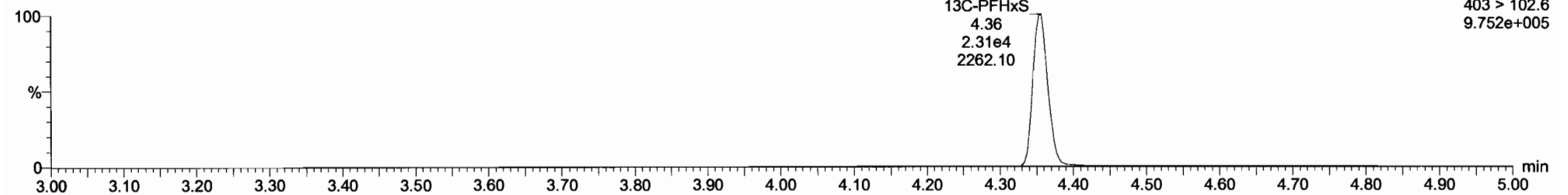
PFHxS

141201G3_8



13C-PFHxS

141201G3_8



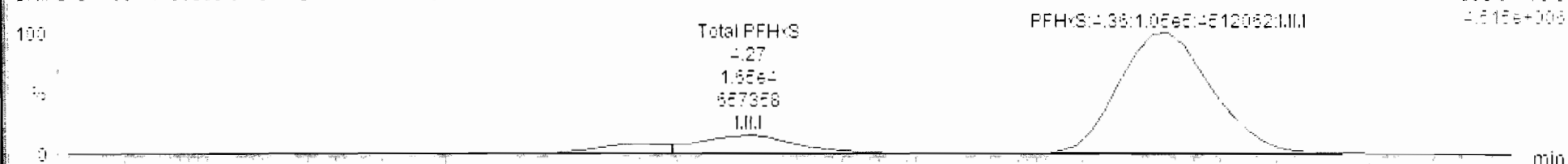


141201G3_8 - 1400885-01 GRIFS-GW-004 0.15544 - GRIFS-GW-004

Name	Trace	Area	RRF	VolVol	RT	Conc.	%Rec	DL
9	PFHxS	412 x 299.7	4.22e-4	0.764	4.69	74.3		0.0378003
10	612 PFH	427.1 x 407	2.01e-4	0.281	4.69	133		0.1520040
11	PFHxS	432 x 413.3	1.92e-4	0.303	4.69	4.23		0.0169221
12	PFHxS	512 x 483.3	7.90e-4	0.692	5.24	1.33		0.0259703
13	612 PFH	527 x 503.3	2.25e-4	0.411	5.24	193		0.0245151
14	PFHxS	533.5 x 59.7	2.03e-1	0.123	5.44	0.583		0.0342221
15	130-PFHxS	403 x 102.3	2.30e-4	0.493	4.29	55.3	67.4	0.0718004
16	130-PFHxS	414.5 x 299.7	4.77e-4	0.712	4.69	75.9	117.9	0.0079353
17	130-612 F...	425.1 x 403.3	1.83e-4	0.157	4.69	124	152.1	0.1154573
18	130-PFHxS	503.2 x 79.3	7.45e-4	0.609	4.69	13.5	21.1	0.0039215
19	130-PFHxS	315 x 299.3	5.83e-4	1.00	3.69	84.3	100.0	0.0048333
20	130-PFHxS	515.1 x 470	2.85e-4	1.00	5.24	84.3	100.0	0.0103334
21	Total PFHxS	435 x 99.7	8.24e-5			7970		
22	Total PFHxS	333.3 x 79.3	1.23e-5			343		

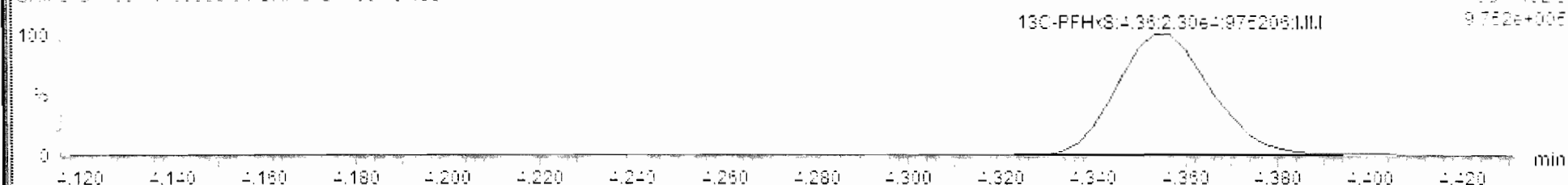
141201G3_8 Smooth Lin 1x2
GRIFS-GW-004 1400885-01 GRIFS-GW-004 0.15544

F3 IIR.M of 8 channels ES-
333.3 x 79.3
4.515e+005



141201G3_8 Smooth Lin 1x2
GRIFS-GW-004 1400885-01 GRIFS-GW-004 0.15544

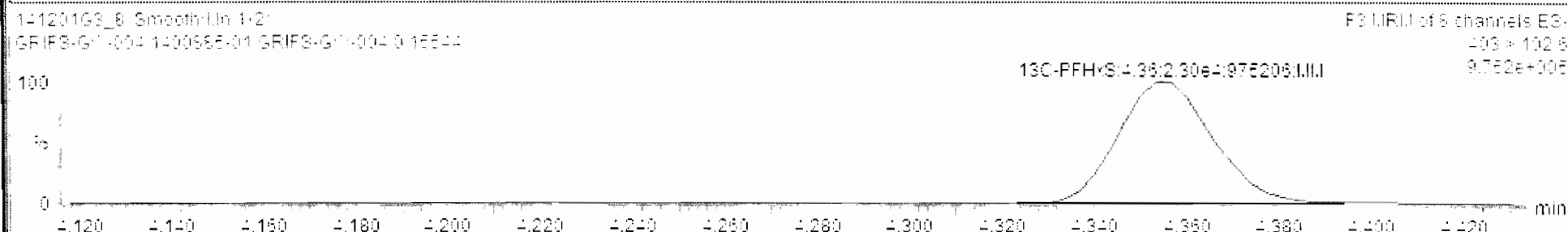
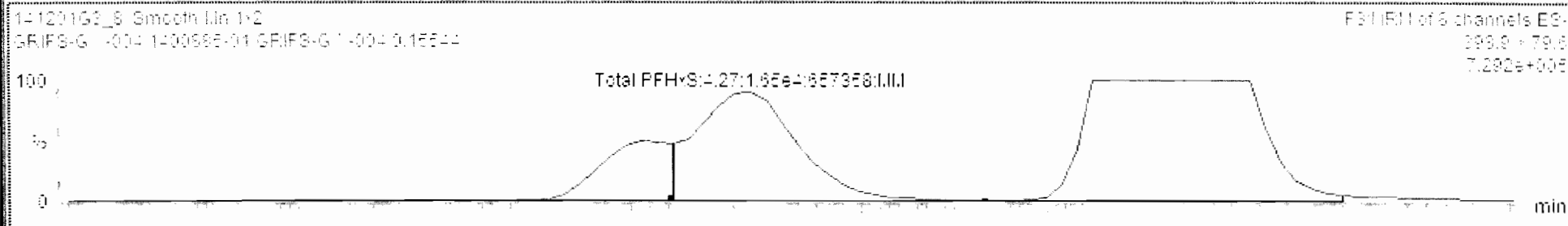
F3 IIR.M of 8 channels ES-
403 x 102.3
9.752e+005





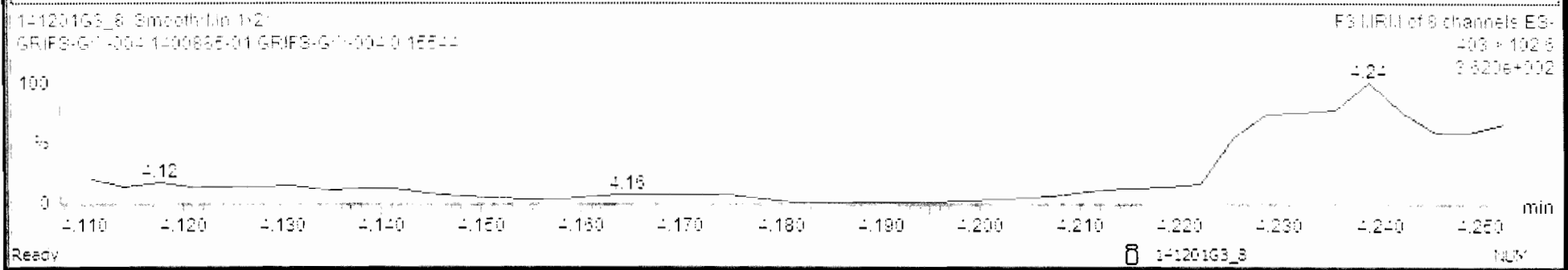
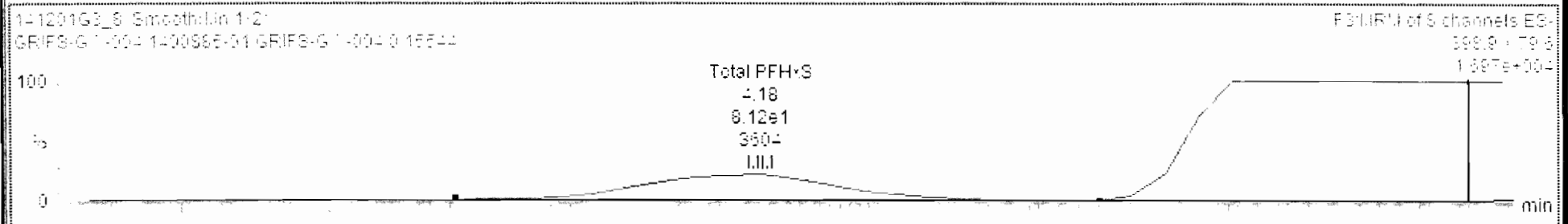
141201G3_8 - 1400885-01 GRIFS-GW-004 0.15544 - GRIFS-GW-004

#	Name	Trace	Area	RRF	wt/Vol	R ²	Conc.	%Rec	D.L.
9	PFQ4	412 > 289.7	4.22e4	0.784	0.155	4.89	74.2		0.0278008
10	8/2 FTS	427.1 > 407	2.01e4	0.381	0.155	4.89	188		0.1520040
11	PF4	482 > 418.8	1.52e3	0.808	0.155	4.89	4.25		0.0188221
12	PFQ4	512 > 488.8	7.90e2	0.852	0.155	5.24	1.83		0.0259703
13	8/2 FTS	527 > 503.8	2.25e4	0.411	0.155	5.25	193		0.0249191
14	PFQ5	558.8 > 58.7	2.02e1	0.123	0.155	5.44	0.583		0.0342221
15	130-PFHxS	403 > 102.8	2.20e4	0.483	0.155	4.28	98.3	87.4	0.0718004
16	130-PFQ4	414.8 > 289.7	4.77e4	0.713	0.155	4.89	75.9	117.8	0.0075858
17	130-8/2 F...	428.1 > 403.8	1.82e4	0.187	0.155	4.89	124	192.1	0.1154578
18	130-PFQ5	503.2 > 78.8	7.45e3	0.908	0.155	4.88	12.5	21.1	0.0095218
19	130-PFHxS	315 > 289.8	5.88e4	1.00	0.155	3.88	84.3	100.0	0.0048383
20	130-PFQ4	515.1 > 470	2.88e4	1.00	0.155	5.24	84.3	100.0	0.0108834
21	Total PFQ5	488 > 58.7	8.24e5		0.155		7870		
22	Total PFHxS	388.8 > 78.8	1.28e5		0.155		348		



141201G3_8 - 1400885-01 GRIFS-GW-004 0.15544 - GRIFS-GW-004

Name	Trace	Area	RRF	wtVol	R ²	Conc.	%Rec	DL	
5	PF04	412 x 359.7	4.22e4	0.794	0.155	4.89	74.3	0.0378008	
10	812 FTS	427.1 x 407	2.01e4	0.381	0.155	4.88	188	0.1520040	
11	PF14	432 x 418.8	1.92e3	0.308	0.155	4.89	4.28	0.0198221	
12	PF04	512 x 438.8	7.90e2	0.152	0.155	5.24	1.83	0.0259703	
12	812 FTS	527 x 508.8	2.25e4	0.411	0.155	5.25	193	0.0245151	
14	PF05	538.8 x 58.7	2.03e1	0.123	0.155	5.44	0.583	0.0342221	
15	13D-PFHxS	402 x 102.8	2.30e4	0.483	0.155	4.88	55.2	67.4	0.0718004
18	13D-PF04	414.6 x 359.7	4.77e4	0.713	0.155	4.88	75.6	117.6	0.0075358
17	13D-812 F...	426.1 x 408.8	1.82e4	0.187	0.155	4.88	124	182.1	0.1154578
18	13D-PF05	502.2 x 78.8	7.45e2	0.106	0.155	4.88	12.5	21.1	0.0055215
19	13D-PFHx4	215 x 288.8	5.88e4	1.00	0.155	3.88	84.3	100.0	0.0048383
20	13D-PF04	515.1 x 470	3.68e4	1.00	0.155	5.24	84.3	100.0	0.0108334
21	Total PF05	458 x 58.7	8.34e5		0.155		7870		
22	Total PFH...	358.8 x 78.8	1.28e5		0.155		245		



Dataset: Untitled

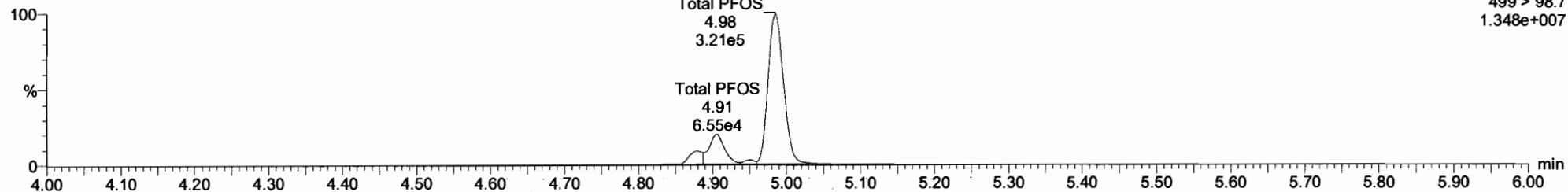
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_8, Date: 01-Dec-2014, Time: 18:56:50, ID: 1400885-01 GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

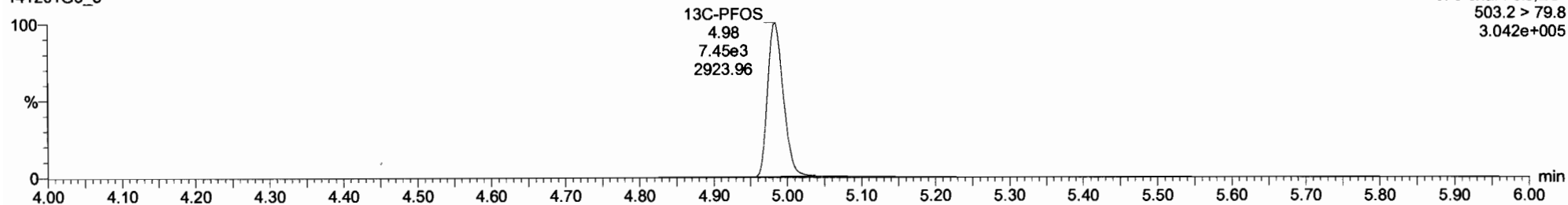
PFOS

141201G3_8



13C-PFOS

141201G3_8





141201G3_8 - 1400885-01 GRIFS-GW-004 0.15544 - GRIFS-GW-004

Name	Trace	Area	RRF	WtVol	RT	Conc.	%Rec	DL
5	PF0-	412 x 288.7	4.22e-4	0.734	4.88	74.2		0.0278008
10	512 PF0	427.1 x 407	2.01e-4	0.351	4.88	188		0.1520040
11	PF1-	432 x 418.8	1.92e-4	0.308	4.88	4.28		0.0138221
12	PF2-	512 x 438.8	7.90e-4	0.352	4.88	1.82		0.0259702
13	512 PF3	527 x 508.8	2.25e-4	0.411	4.88	182		0.0245151
14	PF3S	538.8 x 58.7	2.02e-1	0.123	4.88	0.582		0.0242221
15	130-PF4xS	402 x 102.8	2.30e-4	0.483	4.88	58.2	87.4	0.0718004
16	130-PF0-	414.8 x 388.7	4.77e-4	0.712	4.88	75.8	117.8	0.0079358
17	130-512 F...	425.1 x 408.8	1.82e-4	0.187	4.88	124	182.1	0.1154878
18	130-PF0S	502.2 x 79.8	7.48e-2	0.503	4.88	12.8	21.2	0.0099219
19	130-PF4x-	215 x 288.8	5.88e-4	1.00	2.88	84.2	100.0	0.0048382
20	130-PF0-	515.1 x 470	2.88e-4	1.00	5.24	84.2	100.0	0.0108834
21	Total PF0S	498 x 98.7	4.19e5			3840		
22	Total PF...	238.8 x 79.8	1.28e5			248		

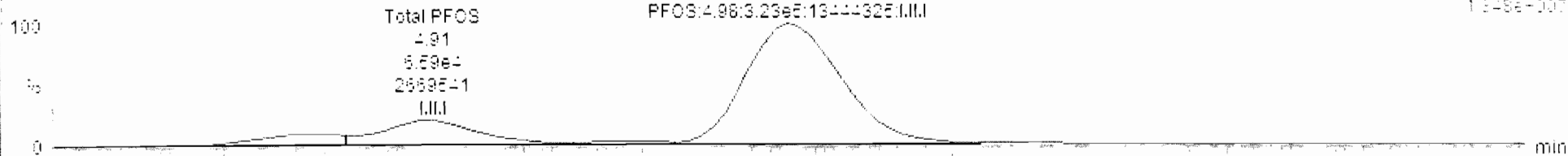
141201G3_8 Smooth(In:1):2

GRIFS-GW-004 1400885-01 GRIFS-GW-004 0.15544

F41 (IRI) of 3 channels: ES-

498 x 98.7

1.948e+007



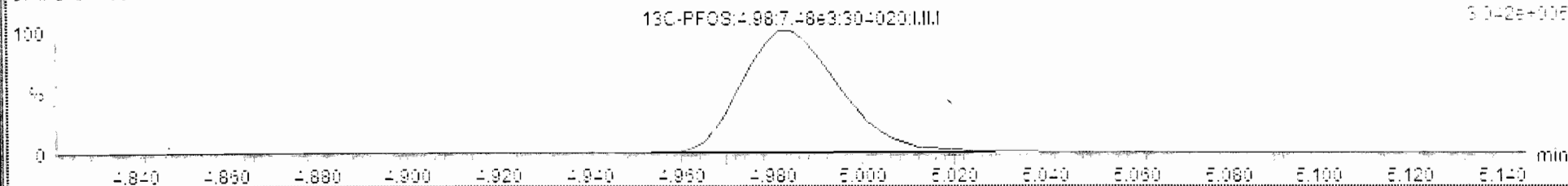
141201G3_8 Smooth(In:1):2

GRIFS-GW-004 1400885-01 GRIFS-GW-004 0.15544

F41 (IRI) of 3 channels: ES-

502.2 x 79.8

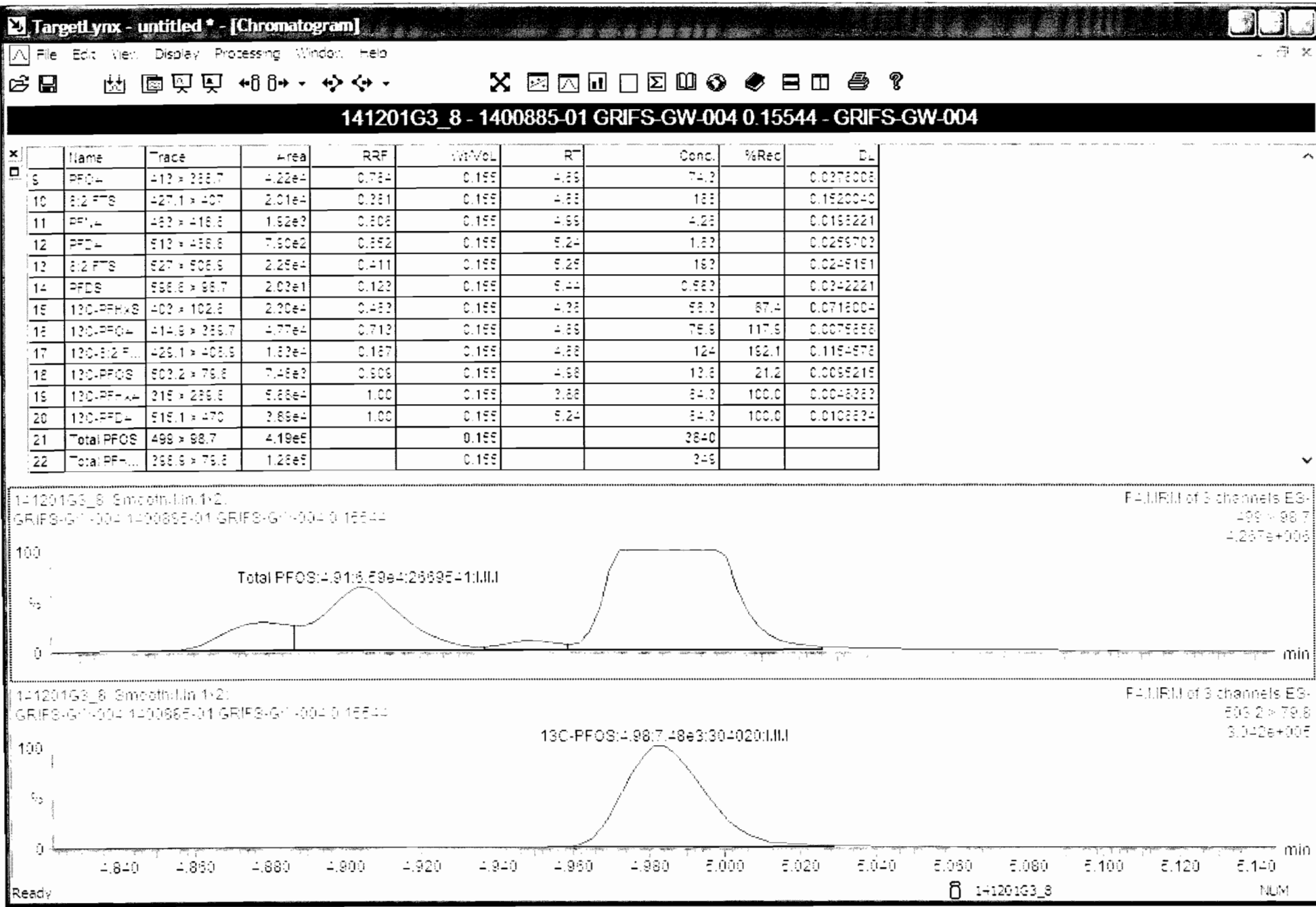
5.042e+005



Ready

141201G3_8

NUM



Dataset: Untitled

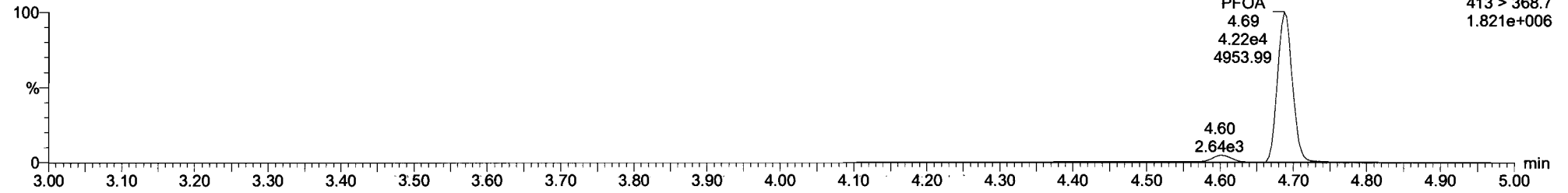
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

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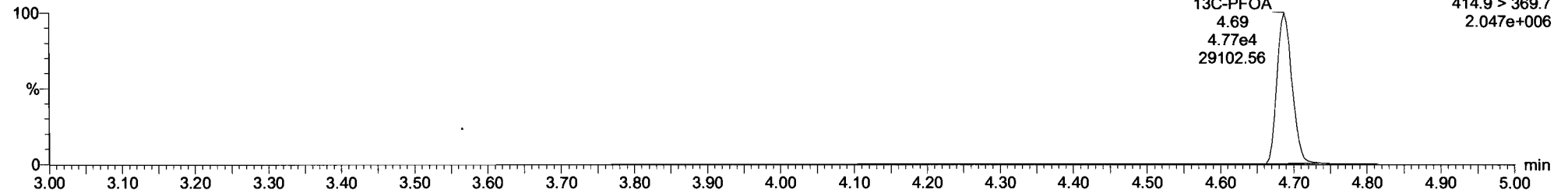
PFOA

141201G3_8



13C-PFOA

141201G3_8



Dataset: Untitled

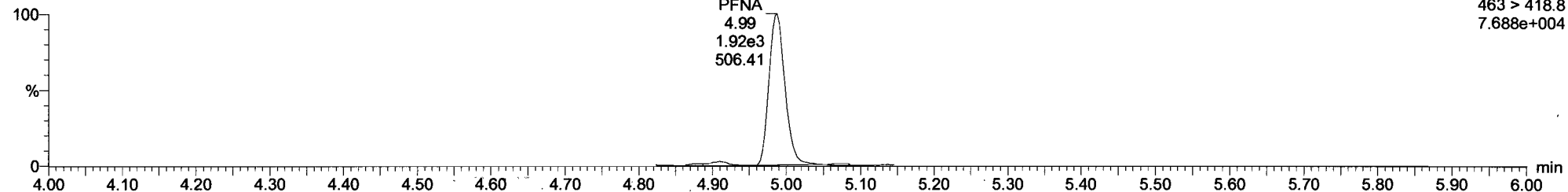
Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_8, Date: 01-Dec-2014, Time: 18:56:50, ID: 1400885-01 GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

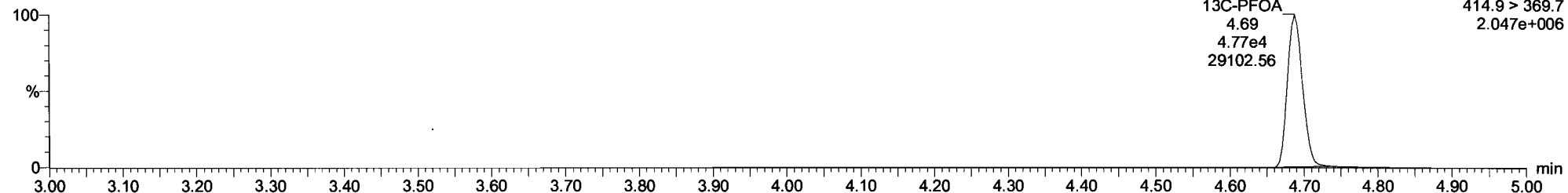
PFNA

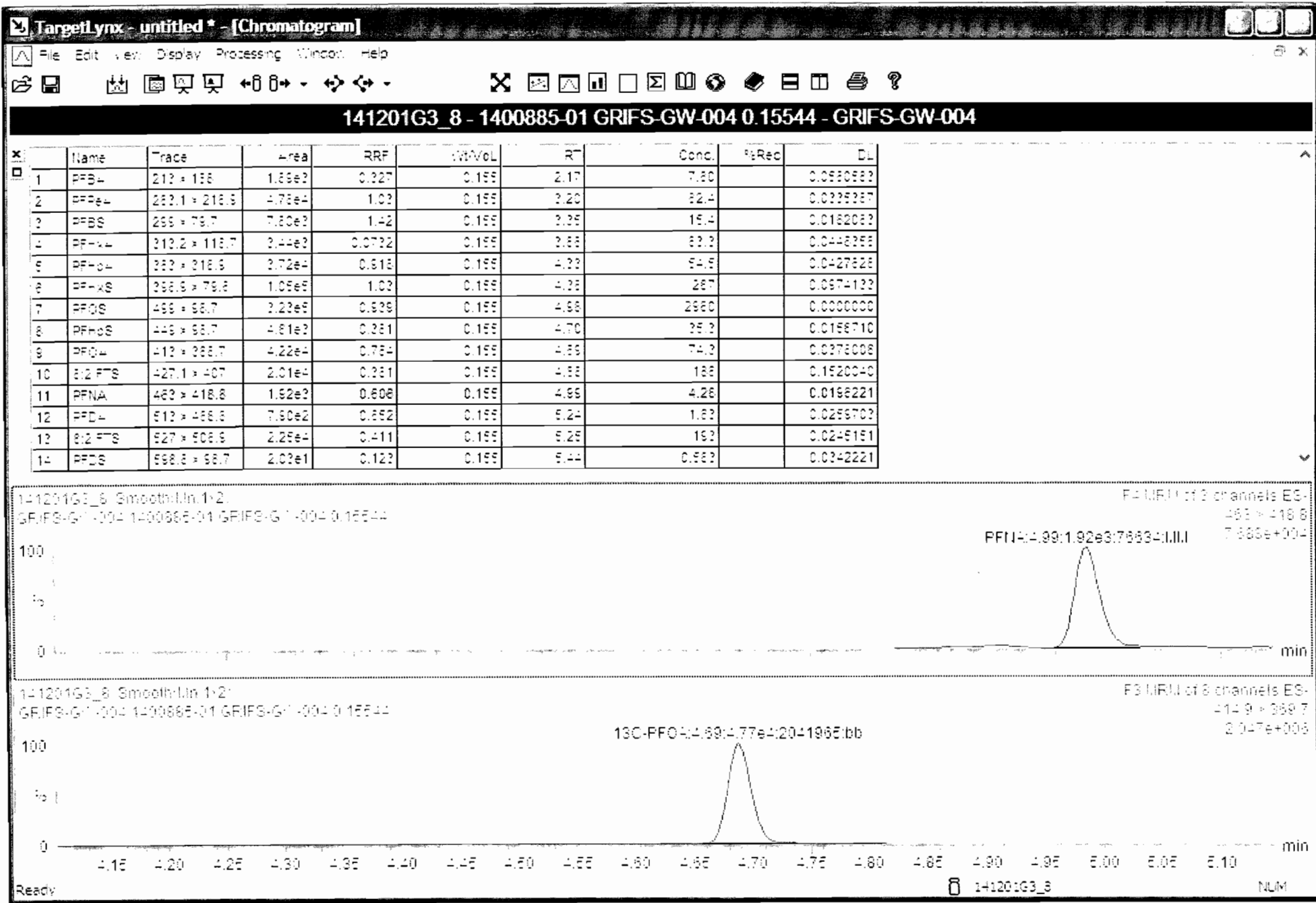
141201G3_8



13C-PFOA

141201G3_8





Dataset: Untitled

Last Altered: Tuesday, December 02, 2014 16:14:05 Pacific Standard Time

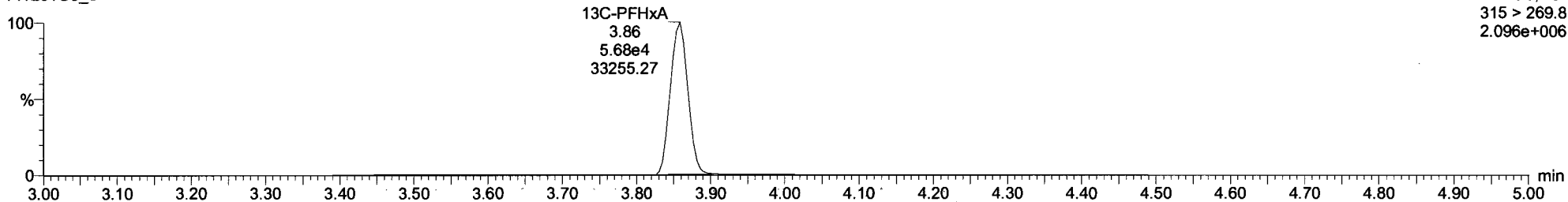
Printed: Tuesday, December 02, 2014 16:14:31 Pacific Standard Time

Name: 141201G3_8, Date: 01-Dec-2014, Time: 18:56:50, ID: 1400885-01 GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

13C-PFHxA

141201G3_8

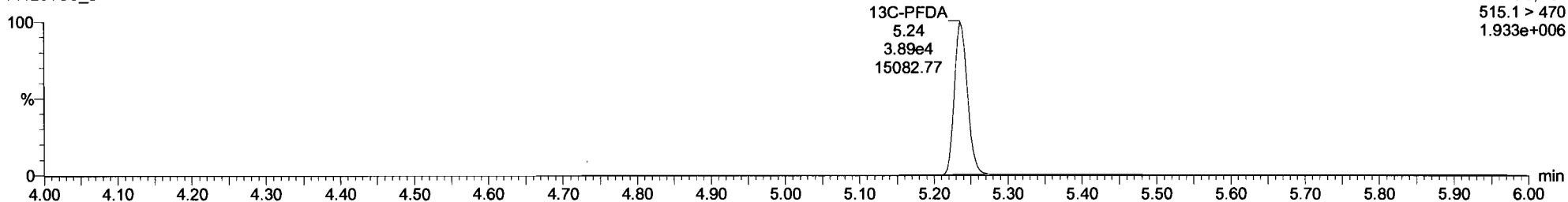
F2:MRM of 5 channels,ES-
315 > 269.8
2.096e+006



13C-PFDA

141201G3_8

F5:MRM of 7 channels,ES-
515.1 > 470
1.933e+006



Dataset: C:\Projects\Method_1694.PRO\Results\141202G1\141202G1_12.qld

Last Altered: Wednesday, December 03, 2014 13:40:28 Pacific Standard Time


Printed: Wednesday, December 03, 2014 13:46:47 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141202G1_12, Date: 02-Dec-2014, Time: 11:50:43, ID: 1400885-01@50X GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

#	Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	22 Total PFHxS	398.9 > 79.6			0.155		290	
2	21 Total PFOS	499 > 98.7			0.155		3590	
3	15 13C-PFHxS	403 > 102.6	2.49e2	0.463	0.155	4.36	43.2	67.2
4	18 13C-PFOS	503.2 > 79.8	9.31e1	0.909	0.155	4.98	31.7	49.3
5	19 13C-PFHxA	315 > 269.8	8.02e2	1.000	0.155	3.86	64.3	100.0
6	20 13C-PFDA	515.1 > 470	2.08e2	1.000	0.155	5.24	64.3	100.0

AC
12/3/14

12/3/14

Vista Analytical Laboratory Q1

Dataset: C:\Projects\Method_1694.PRO\Results\141202G1\141202G1_12.qld

Last Altered: Wednesday, December 03, 2014 13:40:28 Pacific Standard Time

Printed: Wednesday, December 03, 2014 13:46:47 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141202G1_12, Date: 02-Dec-2014, Time: 11:50:43, ID: 1400885-01@50X GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	21 Total PFOS	499 > 98.7	4.88	1.43e2	9.31e1	105
2	21 Total PFOS	499 > 98.7	4.91	4.18e2	9.31e1	308
3	21 Total PFOS	499 > 98.7	4.95	2.48e1	9.31e1	18.2
4	7 PFOS	499 > 98.7	4.98	4.30e3	9.31e1	3160

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6			2.49e2	
2	22 Total PFHxS	398.9 > 79.6	4.25	2.83e1	2.49e2	7.10
3	22 Total PFHxS	398.9 > 79.6	4.27	1.30e2	2.49e2	32.6
4	22 Total PFHxS	398.9 > 79.6	4.36	9.96e2	2.49e2	250

Dataset: Untitled

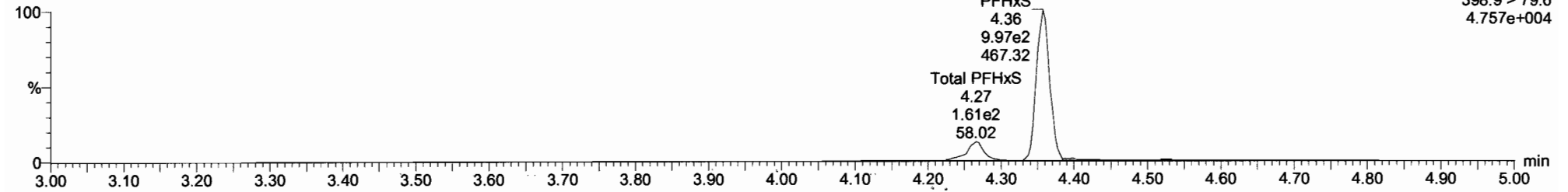
Last Altered: Wednesday, December 03, 2014 08:30:04 Pacific Standard Time

Printed: Wednesday, December 03, 2014 08:30:09 Pacific Standard Time

Name: 141202G1_12, Date: 02-Dec-2014, Time: 11:50:43, ID: 1400885-01@50X GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

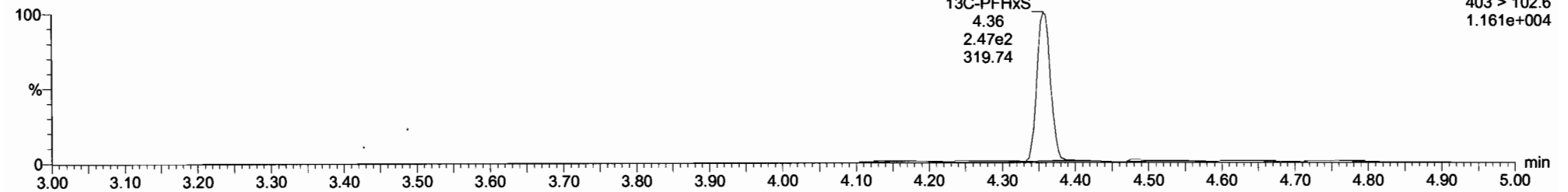
PFHxS

141202G1_12



13C-PFHxS

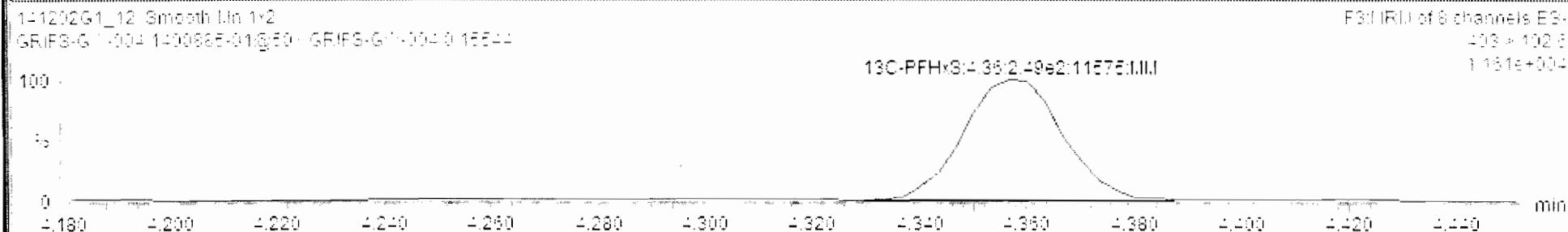
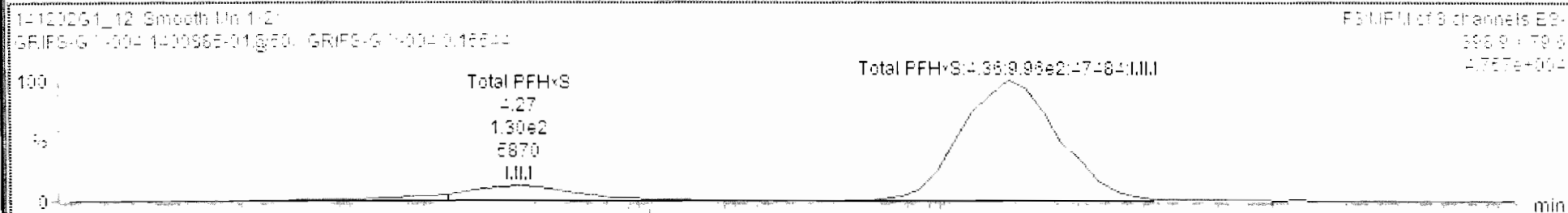
141202G1_12





141202G1_12 - 1400885-01@50X GRIFS-GW-004 0.15544 - GRIFS-GW-004

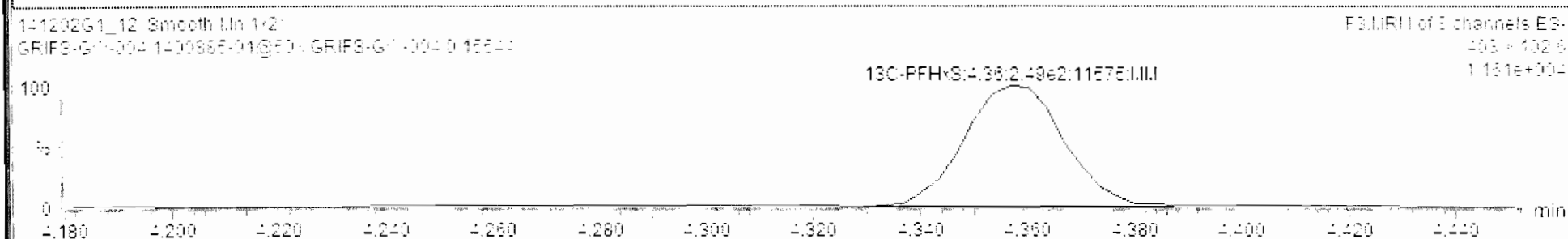
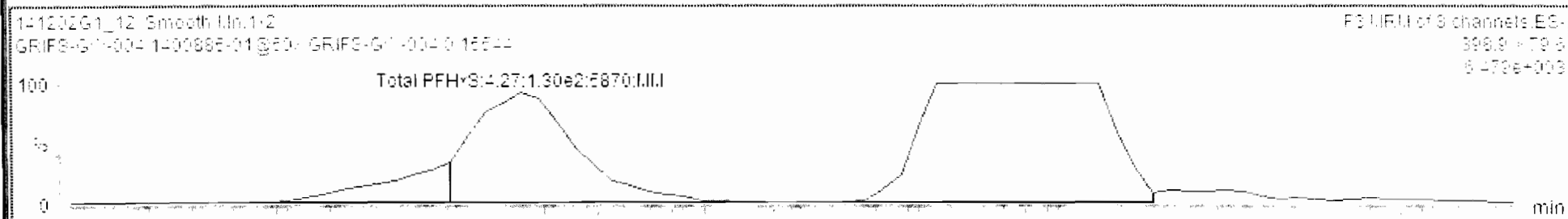
#	Name	Trace	Area	RRF	Wt%Vol	RT	Conc.	%Rec	DL
9	PF04	412.1 > 388.7	4.91e2	0.734	0.155	4.89	102		1.4940362
10	3:2 FFS	427.1 > 407	1.95e2	0.351	0.155	4.89	209		4.0059207
11	PF14	452 > 418.8	1.42e1	0.208	0.155	5.00	408		3.4787254
12	PF04	512 > 488.8	5.27e0	0.052	0.155	5.23	1.87		3.8890519
13	3:2 FFS	527 > 503.8	1.07e2	0.411	0.155	5.25	105		12.2712058
14	PF08	558.8 > 58.7	1.09e-1	0.123	0.155	5.45	0.358		8.2010551
15	13C-PFHxS	402 > 102.8	2.45e2	0.483	0.155	4.28	43.2	87.2	0.4417284
16	13C-PF04	414.5 > 388.7	3.71e2	0.713	0.155	4.89	41.7	84.8	0.2303419
17	13C-3:2 F...	425.1 > 403.8	1.80e2	0.157	0.155	4.89	78.5	118.5	0.9857872
18	13C-PF08	503.2 > 79.8	9.31e1	0.509	0.155	4.98	31.7	49.3	0.3210888
19	13C-PFHxS	215 > 268.8	8.02e2	1.00	0.155	3.88	84.3	100.0	0.1857481
20	13C-PF04	515.1 > 470	2.08e2	1.00	0.155	5.24	84.3	100.0	0.5318871
21	Total PF08	488 > 58.7	9.48e3		0.155		8930		
22	Total PFH...	388.8 > 79.6	1.15e3		0.155		290		





141202G1_12 - 1400885-01@50X GRIFS-GW-004 0.15544 - GRIFS-GW-004

Name	Trace	Area	RRF	WtVol	RT	Conc.	%Rec	DL
9	PFQ-	412 x 388.7	4.61e2	0.784	4.89	102		1.46+0982
10	5:2 FTS	427.1 x 407	1.95e2	0.261	4.89	208		4.0052207
11	PF1-	432 x 418.8	1.42e1	0.208	5.00	4.08		2.4787264
12	PFQ-	512 x 488.8	8.27e0	0.892	5.23	1.87		2.8850919
13	5:2 FTS	527 x 508.8	1.07e2	0.411	5.25	105		12.2712098
14	PFDS	538.8 x 58.7	1.09e-1	0.122	5.49	0.258		8.2010551
15	130-PFHxS	402 x 102.8	2.48e2	0.482	4.28	42.2	87.2	0.4417284
16	130-PFQ-	414.9 x 388.7	2.71e2	0.712	4.89	41.7	84.8	0.2202419
17	130-5:2 F...	428.1 x 408.8	1.80e2	0.187	4.89	78.8	118.8	0.8857872
18	130-PFDS	502.2 x 78.8	8.21e1	0.908	4.98	21.7	48.2	0.3210388
19	130-PFHxS	215 x 288.8	8.02e2	1.00	2.88	84.2	100.0	0.1957481
20	130-PFDA	515.1 x 470	2.08e2	1.00	5.24	84.2	100.0	0.5219871
21	Total PFOS	488 x 88.7	9.48e2			88.0		
22	Total PFH...	288.8 x 78.8	1.15e2			280		



Dataset: Untitled

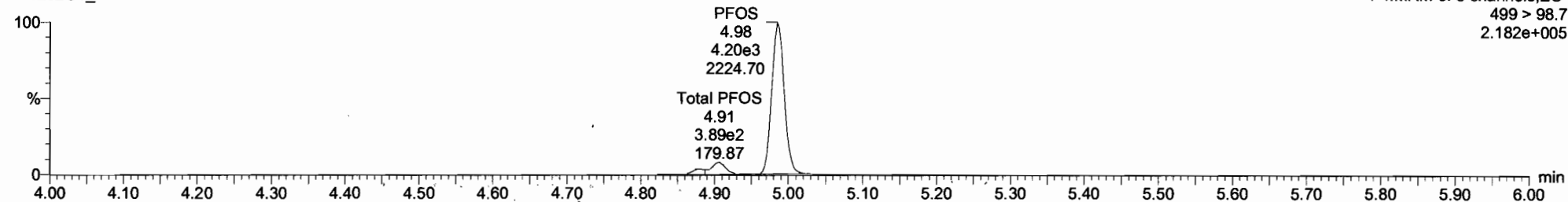
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Printed: Wednesday, December 03, 2014 08:30:09 Pacific Standard Time

Name: 141202G1_12, Date: 02-Dec-2014, Time: 11:50:43, ID: 1400885-01@50X GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

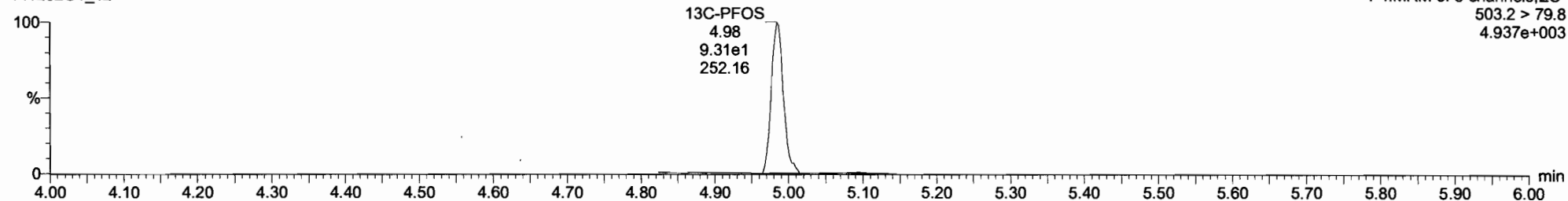
PFOS

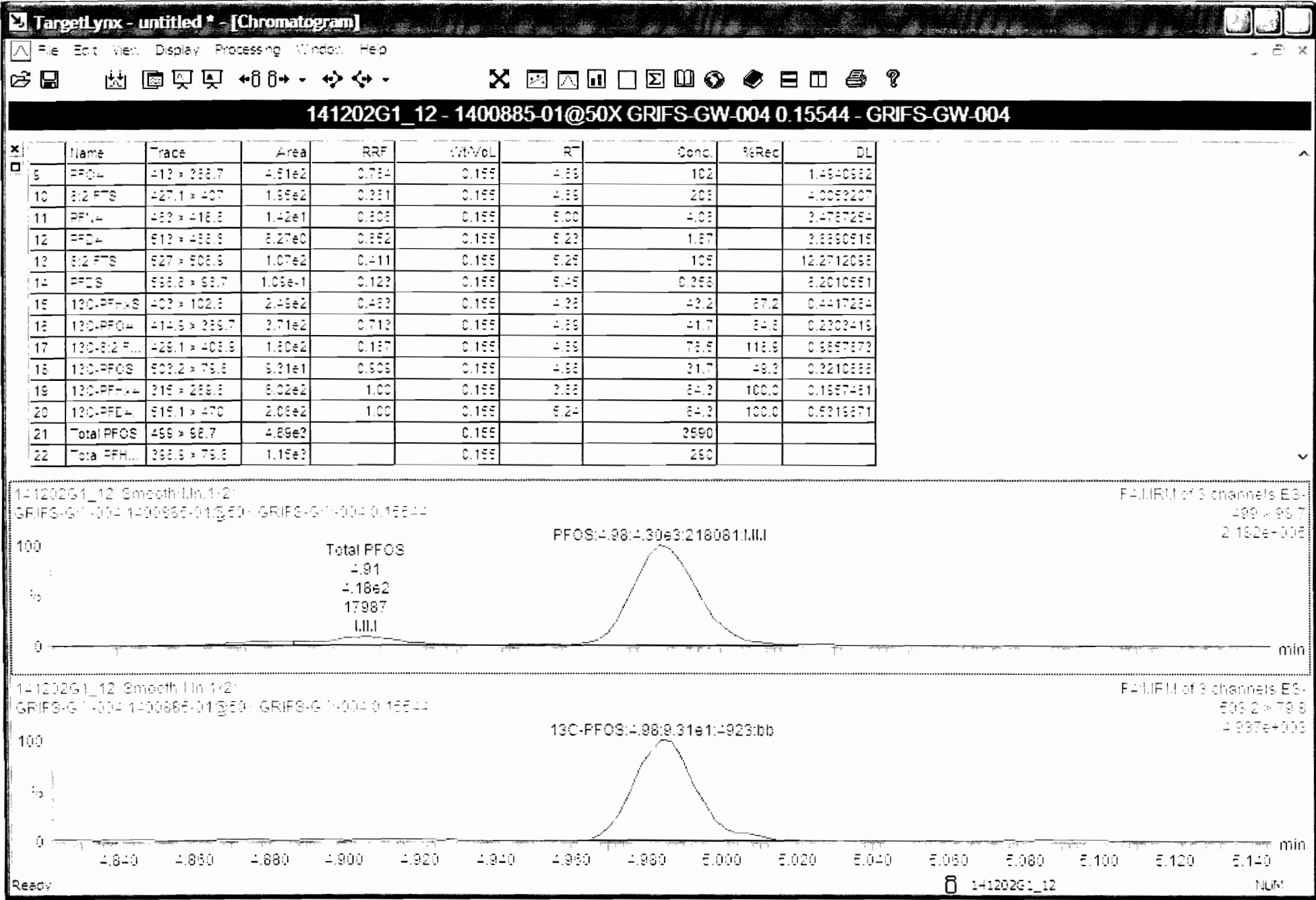
141202G1_12



¹³C-PFOS

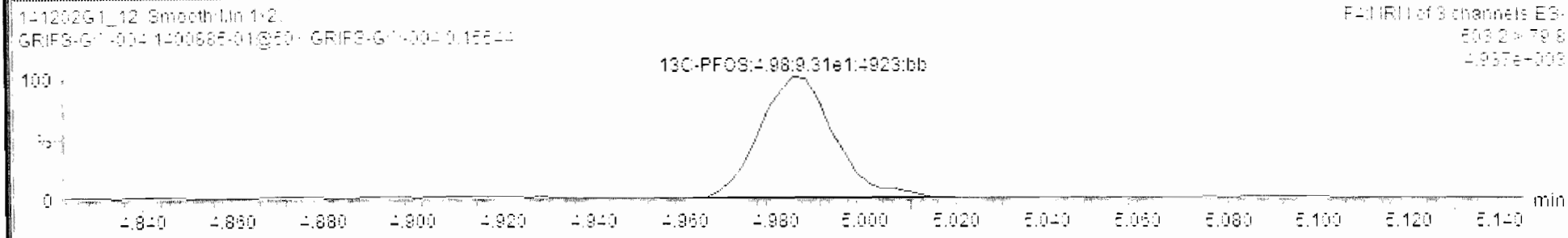
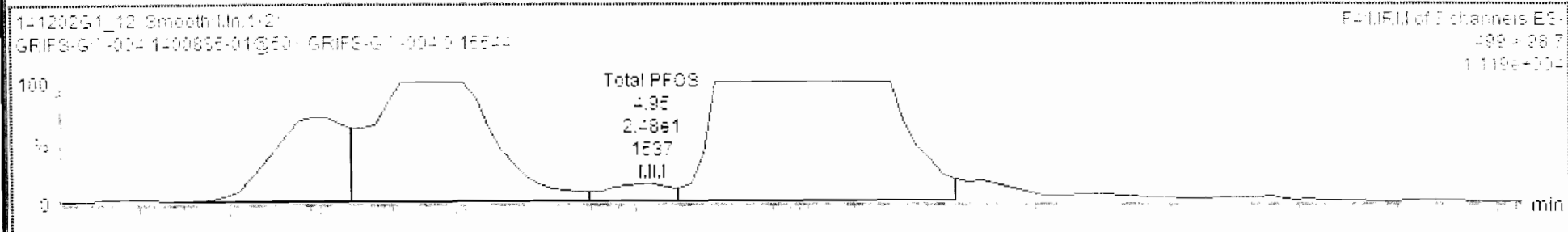
141202G1_12





141202G1_12 - 1400885-01@50X GRIFS-GW-004 0.15544 - GRIFS-GW-004

Name	Trace	Area	RRF	WT/VOL	RT	Conc.	%Rec	DL	
9	PFOA	412 x 388.7	4.51e2	0.734	0.155	4.33	102	1.45e0932	
10	8:2 PFS	427.1 x 407	1.95e2	0.331	0.155	4.33	203	4.0053207	
11	PFA	432 x 418.3	1.42e1	0.303	0.155	5.00	4.03	3.4787254	
12	PFD	512 x 433.3	3.27e0	0.352	0.155	5.22	1.37	3.3360915	
13	8:2 PFS	527 x 503.3	1.07e2	0.411	0.155	5.25	105	12.2712033	
14	PFS	553.6 x 93.7	1.09e-1	0.123	0.155	5.45	0.353	3.2010951	
15	13C-PFHxS	403 x 102.3	2.43e2	0.433	0.155	4.33	43.2	67.2	0.4417234
16	13C-PFOA	414.5 x 233.7	3.71e2	0.712	0.155	4.33	41.7	64.8	0.2203413
17	13C-8:2 F...	423.1 x 403.3	1.30e2	0.137	0.155	4.33	76.5	113.5	0.3357372
18	13C-PFOS	503.2 x 79.3	3.21e1	0.503	0.155	4.33	31.7	49.2	0.3210333
19	13C-PFHx	215 x 233.3	3.02e2	1.00	0.155	3.33	34.3	100.0	0.1557431
20	13C-PFD	515.1 x 470	2.03e2	1.00	0.155	5.24	34.3	100.0	0.3215371
21	Total PFOA	453 x 93.7	4.89e3						
22	Total PFH...	233.3 x 79.3	1.15e3						



Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 08:30:04 Pacific Standard Time

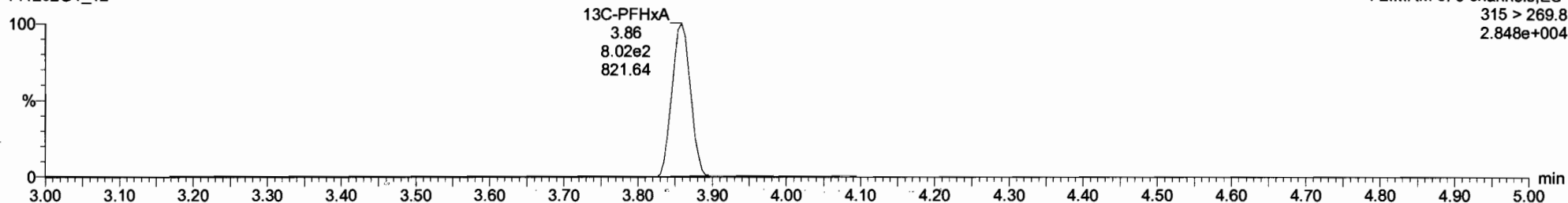
Printed: Wednesday, December 03, 2014 08:30:09 Pacific Standard Time

Name: 141202G1_12, Date: 02-Dec-2014, Time: 11:50:43, ID: 1400885-01@50X GRIFS-GW-004 0.15544, Description: GRIFS-GW-004

13C-PFHxA

141202G1_12

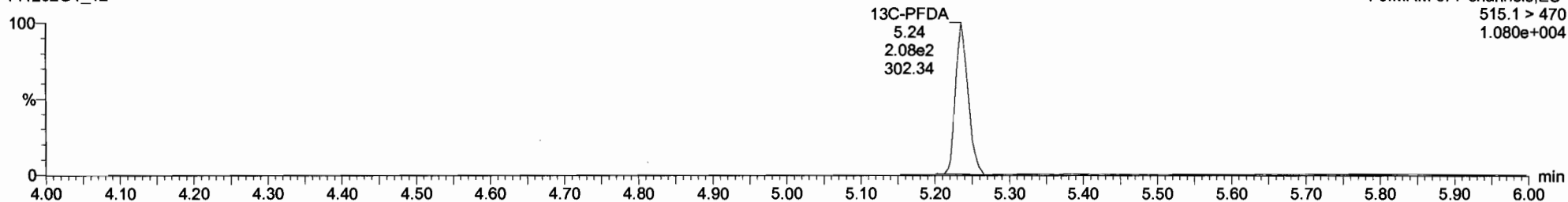
F2:MRM of 5 channels,ES-
315 > 269.8
2.848e+004



13C-PFDA

141202G1_12

F5:MRM of 7 channels,ES-
515.1 > 470
1.080e+004



CONTINUING CALIBRATION

Vista Analytical Laboratory Q1

Dataset: C:\Projects\Method_1694.PRO\Results\141201G3\141201G3_2.qld

Last Altered: Wednesday, December 03, 2014 11:43:16 Pacific Standard Time

Printed: Wednesday, December 03, 2014 11:44:19 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141201G3_2, Date: 01-Dec-2014, Time: 17:40:46, ID: ST141201G3-1 PFC CS1 14K0502, Description: PFC CS1 14K0502

	# Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	1.88e3	1.421	1.000	3.36	1.13	112.8
2	5 PFHpA	363 > 318.9	2.31e3	0.918	1.000	4.33	1.11	111.2
3	6 PFHxS	398.9 > 79.6	1.41e3	1.029	1.000	4.36	1.17	116.6
4	7 PFOS	499 > 98.7	7.60e2	0.939	1.000	4.99	0.988	98.8
5	9 PFOA	413 > 368.7	1.76e3	0.764	1.000	4.69	1.02	101.9
6	11 PFNA	463 > 418.8	1.44e3	0.606	1.000	4.99	1.05	104.8
7	15 13C-PFHxS	403 > 102.6	1.17e4	0.463	1.000	4.36	7.99	79.9
8	16 13C-PFOA	414.9 > 369.7	2.26e4	0.713	1.000	4.69	10.0	100.1
9	18 13C-PFOS	503.2 > 79.8	8.19e3	0.909	1.000	4.99	7.07	70.7
10	19 13C-PFHxA	315 > 269.8	3.17e4	1.000	1.000	3.86	10.0	100.0
11	20 13C-PFDA	515.1 > 470	1.27e4	1.000	1.000	5.24	10.0	100.0

50-150
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Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 11:53:10 Pacific Standard Time
Printed: Wednesday, December 03, 2014 11:54:49 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	141201G3_1	Methanol	01-Dec-14	17:28:13
2	141201G3_2	ST141201G3-1 PFC CS1 14K0502	01-Dec-14	17:40:46
3	141201G3_3	B4L0014-BS1 OPR 0.125	01-Dec-14	17:53:23
4	141201G3_4	Methanol	01-Dec-14	18:06:06
5	141201G3_5	B4L0014-BLK1 Method Blank 0.125	01-Dec-14	18:18:46
6	141201G3_6	1400881-01 BERGS-FT023P-BLK01 0.14802	01-Dec-14	18:31:28
7	141201G3_7	1400881-02 BERGS-FT023P-BLK02 0.14522	01-Dec-14	18:44:09
8	141201G3_8	1400885-01 GRIFS-GW-004 0.15544	01-Dec-14	18:56:50
9	141201G3_9	1400890-01 BERGS-FT023P-BLK04 0.16323	01-Dec-14	19:09:30
10	141201G3_10	1400894-01 KELLY-SW-003 0.14116	01-Dec-14	19:22:12
11	141201G3_11	1400894-02 KELLY-SW-004A 0.14668	01-Dec-14	19:34:54
12	141201G3_12	1400894-03 KELLY-SW-005A 0.15693	01-Dec-14	19:47:34
13	141201G3_13	1400894-04 KELLY-SW-006A 0.15392	01-Dec-14	20:00:14
14	141201G3_14	Methanol	01-Dec-14	20:12:53
15	141201G3_15	Methanol	01-Dec-14	20:25:35
16	141201G3_16	ST141201G3-2 PFC CS7 14K2201	01-Dec-14	20:38:16

LC CALIBRATION STANDARDS REVIEW CHECKLIST, Q1



Calibration ID: _____	L	M	H	<u>ION Ratio</u>	<u>Concentration</u>	<u>C-Cal Name</u>	<u>Sign/ Date</u>	<u>Correct I-Cal</u>	<u>Manual Integrations</u>	<u>N/A</u>
ST141201G3-1 (L) M H				N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ST141201G3-2 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 type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Full Mass Cal. Date: 11/11/14

Comments:

Reviewed by: clj 12/3/14
Initials & Date

Vista Analytical Laboratory
 El Dorado Hills, CA 95762

Vista Analytical Laboratory Q1

Dataset: C:\Projects\Method_1694.PRO\Results\141201G3\141201G3_16.qld

Last Altered: Wednesday, December 03, 2014 11:47:33 Pacific Standard Time

Printed: Wednesday, December 03, 2014 11:50:53 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141201G3_16, Date: 01-Dec-2014, Time: 20:38:16, ID: ST141201G3-2 PFC CS7 14K2201, Description: PFC CS7 14K2201

	# Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	9.72e4	1.421	1.000	3.36	46.2	92.3
2	5 PFHpA	363 > 318.9	1.11e5	0.918	1.000	4.33	50.2	100.3
3	6 PFHxS	398.9 > 79.6	8.17e4	1.029	1.000	4.36	53.6	107.1
4	7 PFOS	499 > 98.7	4.71e4	0.939	1.000	4.98	49.0	98.1
5	9 PFOA	413 > 368.7	9.94e4	0.764	1.000	4.69	53.8	107.5
6	11 PFNA	463 > 418.8	7.78e4	0.606	1.000	4.99	53.1	106.1
7	15 13C-PFHxS	403 > 102.6	1.48e4	0.463	1.000	4.36	10.0	100.0
8	16 13C-PFOA	414.9 > 369.7	2.42e4	0.713	1.000	4.69	10.6	105.9
9	18 13C-PFOS	503.2 > 79.8	1.02e4	0.909	1.000	4.98	7.64	76.4
10	19 13C-PFHxA	315 > 269.8	3.20e4	1.000	1.000	3.86	10.0	100.0
11	20 13C-PFDA	515.1 > 470	1.47e4	1.000	1.000	5.24	10.0	100.0

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Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 11:53:10 Pacific Standard Time
Printed: Wednesday, December 03, 2014 11:54:52 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	141201G3_1	Methanol	01-Dec-14	17:28:13
2	141201G3_2	ST141201G3-1 PFC CS1 14K0502	01-Dec-14	17:40:46
3	141201G3_3	B4L0014-BS1 OPR 0.125	01-Dec-14	17:53:23
4	141201G3_4	Methanol	01-Dec-14	18:06:06
5	141201G3_5	B4L0014-BLK1 Method Blank 0.125	01-Dec-14	18:18:46
6	141201G3_6	1400881-01 BERGS-FT023P-BLK01 0.14802	01-Dec-14	18:31:28
7	141201G3_7	1400881-02 BERGS-FT023P-BLK02 0.14522	01-Dec-14	18:44:09
8	141201G3_8	1400885-01 GRIFS-GW-004 0.15544	01-Dec-14	18:56:50
9	141201G3_9	1400890-01 BERGS-FT023P-BLK04 0.16323	01-Dec-14	19:09:30
10	141201G3_10	1400894-01 KELLY-SW-003 0.14116	01-Dec-14	19:22:12
11	141201G3_11	1400894-02 KELLY-SW-004A 0.14668	01-Dec-14	19:34:54
12	141201G3_12	1400894-03 KELLY-SW-005A 0.15693	01-Dec-14	19:47:34
13	141201G3_13	1400894-04 KELLY-SW-006A 0.15392	01-Dec-14	20:00:14
14	141201G3_14	Methanol	01-Dec-14	20:12:53
15	141201G3_15	Methanol	01-Dec-14	20:25:35
16	141201G3_16	ST141201G3-2 PFC CS7 14K2201	01-Dec-14	20:38:16

Dataset: C:\Projects\Method_1694.PRO\Results\141202G1\141202G1_2.qld

Last Altered: Wednesday, December 03, 2014 08:33:55 Pacific Standard Time

Printed: Wednesday, December 03, 2014 08:37:09 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141202G1_2, Date: 02-Dec-2014, Time: 09:43:49, ID: ST141202G1-1 PFC CS1 14K0502, Description: PFC CS1 14K0502

	# Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	2.02e3	1.421	1.000	3.36	1.21	121.2
2	5 PFHpA	363 > 318.9	2.22e3	0.918	1.000	4.33	1.16	115.7
3	6 PFHxS	398.9 > 79.6	1.29e3	1.029	1.000	4.36	1.07	106.8
4	7 PFOS	499 > 98.7	6.81e2	0.939	1.000	4.99	0.921	92.1
5	9 PFOA	413 > 368.7	1.69e3	0.764	1.000	4.69	1.06	105.8
6	11 PFNA	463 > 418.8	1.37e3	0.606	1.000	4.99	1.08	108.1
7	15 13C-PFHxS	403 > 102.6	1.17e4	0.463	1.000	4.36	8.06	80.6
8	16 13C-PFOA	414.9 > 369.7	2.09e4	0.713	1.000	4.69	9.33	93.3
9	18 13C-PFOS	503.2 > 79.8	7.87e3	0.909	1.000	4.99	9.03	90.3
10	19 13C-PFHxA	315 > 269.8	3.14e4	1.000	1.000	3.86	10.0	100.0
11	20 13C-PFDA	515.1 > 470	9.59e3	1.000	1.000	5.24	10.0	100.0

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Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 08:53:45 Pacific Standard Time
Printed: Wednesday, December 03, 2014 08:54:04 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFCA_short_100mm.mdb 26 Nov 2014 12:25:38
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFCA_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	141202G1_1	Methanol	02-Dec-14	09:31:16
2	141202G1_2	ST141202G1-1 PFC CS1 14K0502	02-Dec-14	09:43:49
3	141202G1_3	Methanol	02-Dec-14	09:56:28
4	141202G1_4	1400894-01@10X KELLY-SW-003 0.14116	02-Dec-14	10:09:11
5	141202G1_5	1400894-02@10X KELLY-SW-004A 0.14668	02-Dec-14	10:21:50
6	141202G1_6	1400894-03@10X KELLY-SW-005A 0.15693	02-Dec-14	10:34:30
7	141202G1_7	1400894-04@10X KELLY-SW-006A 0.15392	02-Dec-14	10:47:11
8	141202G1_8	1400894-05@10X KELLY-SW-007A 0.15447	02-Dec-14	10:59:52
9	141202G1_9	1400894-13@10X KELLY-SW-001 0.14274	02-Dec-14	11:12:36
10	141202G1_10	1400894-14@10X KELLY-SW-002 0.14688	02-Dec-14	11:25:21
11	141202G1_11	1400894-18@10X KELLY-SW-008 0.14927	02-Dec-14	11:38:02
12	141202G1_12	1400885-01@50X GRIFS-GW-004 0.15544	02-Dec-14	11:50:43
13	141202G1_13	1400894-05 KELLY-SW-007A 0.15447	02-Dec-14	12:03:24
14	141202G1_14	Methanol	02-Dec-14	12:16:08
15	141202G1_15	Methanol	02-Dec-14	12:28:49
16	141202G1_16	ST141202G1-2 PFC CS7 14K2201	02-Dec-14	12:41:29
17	141202G1_17	Methanol	02-Dec-14	12:54:11
18	141202G1_18	Methanol	02-Dec-14	13:06:51
19	141202G1_19	1400894-13 KELLY-SW-001 0.14274	02-Dec-14	13:19:32
20	141202G1_20	1400894-14 KELLY-SW-002 0.14688	02-Dec-14	13:32:12
21	141202G1_21	1400894-18 KELLY-SW-008 0.14927	02-Dec-14	13:44:54
22	141202G1_22	Methanol	02-Dec-14	13:57:36
23	141202G1_23	Methanol	02-Dec-14	14:10:16
24	141202G1_24	ST141202G1-3 PFC CS4 14K0504	02-Dec-14	14:22:55
25	141202G1_25	Methanol	02-Dec-14	14:35:35
26	141202G1_26	Methanol	02-Dec-14	14:48:16
27	141202G1_27	1400880-04@5X BERGS-SO-004 1.17	02-Dec-14	15:00:59
28	141202G1_28	1400880-05@5X BERGS-SO-005 1.11	02-Dec-14	15:13:38
29	141202G1_29	1400880-11@5X BERGS-SO-022 1.2	02-Dec-14	15:26:19
30	141202G1_30	1400880-10@5X BERGS-SO-021 1.19	02-Dec-14	15:39:01
31	141202G1_31	Methanol	02-Dec-14	15:51:39

Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 08:53:45 Pacific Standard Time
Printed: Wednesday, December 03, 2014 08:54:04 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	141202G1_32	ST141202G1-4 PFC CS7 14K2201	02-Dec-14	16:04:20
33	141202G1_33	Methanol	02-Dec-14	16:17:01
34	141202G1_34	Methanol	02-Dec-14	16:29:43

LC CALIBRATION STANDARDS REVIEW CHECKLIST, Q1



Calibration ID:	L	M	H	ION Ratio	Concentration	C-Cal Name	Sign/Date	Correct I-Cal	Manual Integrations	NA
ST141202G1-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ST141202G1-2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ST141202G1-3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ST141202G1-4	<input type="checkbox"/>	<input 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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Full Mass Cal. Date: 11/11/14

Comments:

Reviewed by: *[Signature]*
12/3/14
 Initials & Date

Vista Analytical Laboratory
 El Dorado Hills, CA 95762

Dataset: C:\Projects\Method_1694.PRO\Results\141202G1\141202G1_16.qld

Last Altered: Wednesday, December 03, 2014 08:38:20 Pacific Standard Time

Printed: Wednesday, December 03, 2014 08:39:18 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141202G1_16, Date: 02-Dec-2014, Time: 12:41:29, ID: ST141202G1-2 PFC CS7 14K2201, Description: PFC CS7 14K2201

	# Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	9.55e4	1.421	1.000	3.35	43.9	87.8
2	5 PFHpA	363 > 318.9	1.17e5	0.918	1.000	4.33	51.5	103.0
3	6 PFHxS	398.9 > 79.6	8.05e4	1.029	1.000	4.36	51.1	102.2
4	7 PFOS	499 > 98.7	4.67e4	0.939	1.000	4.98	49.8	99.6
5	9 PFOA	413 > 368.7	1.01e5	0.764	1.000	4.69	53.8	107.6
6	11 PFNA	463 > 418.8	7.50e4	0.606	1.000	4.98	50.2	100.3
7	15 13C-PFHxS	403 > 102.6	1.53e4	0.463	1.000	4.36	9.76	97.6
8	16 13C-PFOA	414.9 > 369.7	2.46e4	0.713	1.000	4.69	10.2	102.0
9	18 13C-PFOS	503.2 > 79.8	9.99e3	0.909	1.000	4.98	7.99	79.9
10	19 13C-PFHxA	315 > 269.8	3.39e4	1.000	1.000	3.86	10.0	100.0
11	20 13C-PFDA	515.1 > 470	1.38e4	1.000	1.000	5.24	10.0	100.0

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Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 08:53:45 Pacific Standard Time
Printed: Wednesday, December 03, 2014 08:54:04 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	141202G1_1	Methanol	02-Dec-14	09:31:16
2	141202G1_2	ST141202G1-1 PFC CS1 14K0502	02-Dec-14	09:43:49
3	141202G1_3	Methanol	02-Dec-14	09:56:28
4	141202G1_4	1400894-01@10X KELLY-SW-003 0.14116	02-Dec-14	10:09:11
5	141202G1_5	1400894-02@10X KELLY-SW-004A 0.14668	02-Dec-14	10:21:50
6	141202G1_6	1400894-03@10X KELLY-SW-005A 0.15693	02-Dec-14	10:34:30
7	141202G1_7	1400894-04@10X KELLY-SW-006A 0.15392	02-Dec-14	10:47:11
8	141202G1_8	1400894-05@10X KELLY-SW-007A 0.15447	02-Dec-14	10:59:52
9	141202G1_9	1400894-13@10X KELLY-SW-001 0.14274	02-Dec-14	11:12:36
10	141202G1_10	1400894-14@10X KELLY-SW-002 0.14688	02-Dec-14	11:25:21
11	141202G1_11	1400894-18@10X KELLY-SW-008 0.14927	02-Dec-14	11:38:02
12	141202G1_12	1400885-01@50X GRIFS-GW-004 0.15544	02-Dec-14	11:50:43
13	141202G1_13	1400894-05 KELLY-SW-007A 0.15447	02-Dec-14	12:03:24
14	141202G1_14	Methanol	02-Dec-14	12:16:08
15	141202G1_15	Methanol	02-Dec-14	12:28:49
16	141202G1_16	ST141202G1-2 PFC CS7 14K2201	02-Dec-14	12:41:29
17	141202G1_17	Methanol	02-Dec-14	12:54:11
18	141202G1_18	Methanol	02-Dec-14	13:06:51
19	141202G1_19	1400894-13 KELLY-SW-001 0.14274	02-Dec-14	13:19:32
20	141202G1_20	1400894-14 KELLY-SW-002 0.14688	02-Dec-14	13:32:12
21	141202G1_21	1400894-18 KELLY-SW-008 0.14927	02-Dec-14	13:44:54
22	141202G1_22	Methanol	02-Dec-14	13:57:36
23	141202G1_23	Methanol	02-Dec-14	14:10:16
24	141202G1_24	ST141202G1-3 PFC CS4 14K0504	02-Dec-14	14:22:55
25	141202G1_25	Methanol	02-Dec-14	14:35:35
26	141202G1_26	Methanol	02-Dec-14	14:48:16
27	141202G1_27	1400880-04@5X BERGS-SO-004 1.17	02-Dec-14	15:00:59
28	141202G1_28	1400880-05@5X BERGS-SO-005 1.11	02-Dec-14	15:13:38
29	141202G1_29	1400880-11@5X BERGS-SO-022 1.2	02-Dec-14	15:26:19
30	141202G1_30	1400880-10@5X BERGS-SO-021 1.19	02-Dec-14	15:39:01
31	141202G1_31	Methanol	02-Dec-14	15:51:39

Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 08:53:45 Pacific Standard Time
Printed: Wednesday, December 03, 2014 08:54:04 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	141202G1_32	ST141202G1-4 PFC CS7 14K2201	02-Dec-14	16:04:20
33	141202G1_33	Methanol	02-Dec-14	16:17:01
34	141202G1_34	Methanol	02-Dec-14	16:29:43

Dataset: C:\Projects\Method_1694.PRO\Results\141202G1\141202G1_24.qld

Last Altered: Wednesday, December 03, 2014 08:40:23 Pacific Standard Time

Printed: Wednesday, December 03, 2014 08:45:47 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38

Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Name: 141202G1_24, Date: 02-Dec-2014, Time: 14:22:55, ID: ST141202G1-3 PFC CS4 14K0504, Description: PFC CS4 14K0504

#	Name	Trace	Response	RRF	Wt/Vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	1.66e4	1.421	1.000	3.35	9.27	92.7
2	5 PFHpA	363 > 318.9	2.20e4	0.918	1.000	4.33	10.4	104.3
3	6 PFHxS	398.9 > 79.6	1.20e4	1.029	1.000	4.36	9.29	92.9
4	7 PFOS	499 > 98.7	6.62e3	0.939	1.000	4.98	9.32	93.2
5	9 PFOA	413 > 368.7	1.88e4	0.764	1.000	4.69	10.7	107.1
6	11 PFNA	463 > 418.8	1.36e4	0.606	1.000	4.99	9.73	97.3
7	15 13C-PFHxS	403 > 102.6	1.26e4	0.463	1.000	4.36	7.98	79.8
8	16 13C-PFOA	414.9 > 369.7	2.30e4	0.713	1.000	4.69	9.47	94.7
9	18 13C-PFOS	503.2 > 79.8	7.56e3	0.909	1.000	4.98	7.37	73.7
10	19 13C-PFHxA	315 > 269.8	3.41e4	1.000	1.000	3.86	10.0	100.0
11	20 13C-PFDA	515.1 > 470	1.13e4	1.000	1.000	5.24	10.0	100.0

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Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 08:53:45 Pacific Standard Time
Printed: Wednesday, December 03, 2014 08:54:04 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 26 Nov 2014 12:25:38
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	141202G1_1	Methanol	02-Dec-14	09:31:16
2	141202G1_2	ST141202G1-1 PFC CS1 14K0502	02-Dec-14	09:43:49
3	141202G1_3	Methanol	02-Dec-14	09:56:28
4	141202G1_4	1400894-01@10X KELLY-SW-003 0.14116	02-Dec-14	10:09:11
5	141202G1_5	1400894-02@10X KELLY-SW-004A 0.14668	02-Dec-14	10:21:50
6	141202G1_6	1400894-03@10X KELLY-SW-005A 0.15693	02-Dec-14	10:34:30
7	141202G1_7	1400894-04@10X KELLY-SW-006A 0.15392	02-Dec-14	10:47:11
8	141202G1_8	1400894-05@10X KELLY-SW-007A 0.15447	02-Dec-14	10:59:52
9	141202G1_9	1400894-13@10X KELLY-SW-001 0.14274	02-Dec-14	11:12:36
10	141202G1_10	1400894-14@10X KELLY-SW-002 0.14688	02-Dec-14	11:25:21
11	141202G1_11	1400894-18@10X KELLY-SW-008 0.14927	02-Dec-14	11:38:02
12	141202G1_12	1400885-01@50X GRIFS-GW-004 0.15544	02-Dec-14	11:50:43
13	141202G1_13	1400894-05 KELLY-SW-007A 0.15447	02-Dec-14	12:03:24
14	141202G1_14	Methanol	02-Dec-14	12:16:08
15	141202G1_15	Methanol	02-Dec-14	12:28:49
16	141202G1_16	ST141202G1-2 PFC CS7 14K2201	02-Dec-14	12:41:29
17	141202G1_17	Methanol	02-Dec-14	12:54:11
18	141202G1_18	Methanol	02-Dec-14	13:06:51
19	141202G1_19	1400894-13 KELLY-SW-001 0.14274	02-Dec-14	13:19:32
20	141202G1_20	1400894-14 KELLY-SW-002 0.14688	02-Dec-14	13:32:12
21	141202G1_21	1400894-18 KELLY-SW-008 0.14927	02-Dec-14	13:44:54
22	141202G1_22	Methanol	02-Dec-14	13:57:36
23	141202G1_23	Methanol	02-Dec-14	14:10:16
24	141202G1_24	ST141202G1-3 PFC CS4 14K0504	02-Dec-14	14:22:55
25	141202G1_25	Methanol	02-Dec-14	14:35:35
26	141202G1_26	Methanol	02-Dec-14	14:48:16
27	141202G1_27	1400880-04@5X BERGS-SO-004 1.17	02-Dec-14	15:00:59
28	141202G1_28	1400880-05@5X BERGS-SO-005 1.11	02-Dec-14	15:13:38
29	141202G1_29	1400880-11@5X BERGS-SO-022 1.2	02-Dec-14	15:26:19
30	141202G1_30	1400880-10@5X BERGS-SO-021 1.19	02-Dec-14	15:39:01
31	141202G1_31	Methanol	02-Dec-14	15:51:39

Dataset: Untitled

Last Altered: Wednesday, December 03, 2014 08:53:45 Pacific Standard Time
Printed: Wednesday, December 03, 2014 08:54:04 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	141202G1_32	ST141202G1-4 PFC CS7 14K2201	02-Dec-14	16:04:20
33	141202G1_33	Methanol	02-Dec-14	16:17:01
34	141202G1_34	Methanol	02-Dec-14	16:29:43

INITIAL CALIBRATION

Dataset: C:\Projects\Method_1694.PRO\Results\141122G1\141122G1_CRV.qld

Last Altered: Monday, November 24, 2014 13:16:42 Pacific Standard Time

Printed: Monday, November 24, 2014 13:18:55 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 14 Nov 2014 15:57:21
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Compound name: PFBS

Response Factor: 1.42124

RRF SD: 0.161773, Relative SD: 11.3826

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	1.00	3.38	1.90e3	1.27e4	1.05	1.50
2	2 141122G1_3	2.00	3.38	3.77e3	1.14e4	2.34	1.66
3	3 141122G1_4	5.00	3.38	9.82e3	1.33e4	5.20	1.48
4	4 141122G1_5	10.0	3.38	1.78e4	1.20e4	10.5	1.49
5	5 141122G1_6	15.0	3.37	2.43e4	1.22e4	14.1	1.33
6	6 141122G1_7	25.0	3.37	4.52e4	1.34e4	23.7	1.35
7	7 141122G1_8	50.0	3.37	7.47e4	1.30e4	40.5	1.15

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V6 11/24/14

Compound name: PFHpA

Response Factor: 0.918307

RRF SD: 0.0963914, Relative SD: 10.4966

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	1.00	4.35	2.11e3	2.07e4	1.11	1.02
2	2 141122G1_3	2.00	4.35	3.46e3	1.70e4	2.21	1.02
3	3 141122G1_4	5.00	4.35	9.71e3	2.05e4	5.15	0.947
4	4 141122G1_5	10.0	4.35	1.69e4	1.86e4	9.88	0.907
5	5 141122G1_6	15.0	4.34	2.43e4	1.75e4	15.1	0.926
6	6 141122G1_7	25.0	4.34	4.76e4	2.17e4	23.9	0.879
7	7 141122G1_8	50.0	4.34	7.26e4	1.98e4	40.0	0.735

Dataset: C:\Projects\Method_1694.PRO\Results\141122G1\141122G1_CRV.qld

Last Altered: Monday, November 24, 2014 13:16:42 Pacific Standard Time

Printed: Monday, November 24, 2014 13:18:55 Pacific Standard Time

Compound name: PFHxS

Response Factor: 1.02867

RRF SD: 0.0203327, Relative SD: 1.97661

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	1.00	4.38	1.27e3	1.27e4	0.969	0.997
2	2 141122G1_3	2.00	4.37	2.36e3	1.14e4	2.02	1.04
3	3 141122G1_4	5.00	4.37	6.80e3	1.33e4	4.97	1.02
4	4 141122G1_5	10.0	4.37	1.25e4	1.20e4	10.2	1.05
5	5 141122G1_6	15.0	4.37	1.84e4	1.22e4	14.7	1.01
6	6 141122G1_7	25.0	4.37	3.49e4	1.34e4	25.2	1.04
7	7 141122G1_8	50.0	4.37	6.82e4	1.30e4	51.1	1.05

Compound name: PFOS

Response Factor: 0.939375

RRF SD: 0.0537608, Relative SD: 5.72304

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	1.00	5.01	6.16e2	6.83e3	0.960	0.902
2	2 141122G1_3	2.00	5.00	1.09e3	5.27e3	2.19	1.03
3	3 141122G1_4	5.00	5.00	3.58e3	8.35e3	4.56	0.858
4	4 141122G1_5	10.0	5.00	6.48e3	6.92e3	9.97	0.936
5	5 141122G1_6	15.0	5.00	1.03e4	7.02e3	15.5	0.973
6	6 141122G1_7	25.0	5.00	1.98e4	8.42e3	25.1	0.943
7	7 141122G1_8	50.0	5.00	4.77e4	1.02e4	49.8	0.935

Dataset: C:\Projects\Method_1694.PRO\Results\141122G1\141122G1_CRV.qld

Last Altered: Monday, November 24, 2014 13:16:42 Pacific Standard Time

Printed: Monday, November 24, 2014 13:18:55 Pacific Standard Time

Compound name: PFOA

Response Factor: 0.764494

RRF SD: 0.0240129, Relative SD: 3.14102

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	1.00	4.71	1.62e3	2.07e4	1.02	0.782
2	2 141122G1_3	2.00	4.70	2.67e3	1.70e4	2.05	0.785
3	3 141122G1_4	5.00	4.70	7.54e3	2.05e4	4.81	0.735
4	4 141122G1_5	10.0	4.70	1.48e4	1.86e4	10.4	0.798
5	5 141122G1_6	15.0	4.70	1.97e4	1.75e4	14.7	0.749
6	6 141122G1_7	25.0	4.70	4.02e4	2.17e4	24.2	0.741
7	7 141122G1_8	50.0	4.70	7.53e4	1.98e4	49.8	0.762

Compound name: PFNA

Response Factor: 0.606346

RRF SD: 0.032496, Relative SD: 5.35931

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	1.00	5.00	1.21e3	2.07e4	0.965	0.585
2	2 141122G1_3	2.00	5.00	2.08e3	1.70e4	2.02	0.612
3	3 141122G1_4	5.00	5.00	6.37e3	2.05e4	5.12	0.621
4	4 141122G1_5	10.0	5.00	1.06e4	1.86e4	9.45	0.573
5	5 141122G1_6	15.0	5.00	1.64e4	1.75e4	15.5	0.626
6	6 141122G1_7	25.0	5.00	3.09e4	2.17e4	23.5	0.569
7	7 141122G1_8	50.0	5.00	6.51e4	1.98e4	54.3	0.659

Dataset: C:\Projects\Method_1694.PRO\Results\141122G1\141122G1_CRV.qld

Last Altered: Monday, November 24, 2014 13:16:42 Pacific Standard Time

Printed: Monday, November 24, 2014 13:18:55 Pacific Standard Time

Compound name: 13C-PFHxS

Response Factor: 0.463167

RRF SD: 0.0550398, Relative SD: 11.8834

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	10.0	4.38	1.27e4	3.09e4	8.88	0.411
2	2 141122G1_3	10.0	4.37	1.14e4	2.68e4	9.15	0.424
3	3 141122G1_4	10.0	4.37	1.33e4	3.12e4	9.21	0.427
4	4 141122G1_5	10.0	4.37	1.20e4	2.74e4	9.45	0.438
5	5 141122G1_6	10.0	4.37	1.22e4	2.41e4	10.9	0.504
6	6 141122G1_7	10.0	4.37	1.34e4	2.83e4	10.3	0.475
7	7 141122G1_8	10.0	4.37	1.30e4	2.30e4	12.2	0.564

Compound name: 13C-PFOA

Response Factor: 0.713413

RRF SD: 0.0776109, Relative SD: 10.8788

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	10.0	4.71	2.07e4	3.09e4	9.43	0.672
2	2 141122G1_3	10.0	4.70	1.70e4	2.68e4	8.89	0.634
3	3 141122G1_4	10.0	4.70	2.05e4	3.12e4	9.22	0.658
4	4 141122G1_5	10.0	4.71	1.86e4	2.74e4	9.52	0.679
5	5 141122G1_6	10.0	4.70	1.75e4	2.41e4	10.2	0.725
6	6 141122G1_7	10.0	4.70	2.17e4	2.83e4	10.7	0.767
7	7 141122G1_8	10.0	4.70	1.98e4	2.30e4	12.0	0.858

Dataset: C:\Projects\Method_1694.PRO\Results\141122G1\141122G1_CRV.qld

Last Altered: Monday, November 24, 2014 13:16:42 Pacific Standard Time

Printed: Monday, November 24, 2014 13:18:55 Pacific Standard Time

Compound name: 13C-PFOS

Response Factor: 0.909093

RRF SD: 0.146887, Relative SD: 16.1576

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	10.0	5.00	6.83e3	7.49e3	10.0	0.912
2	2 141122G1_3	10.0	5.00	5.27e3	5.44e3	10.7	0.969
3	3 141122G1_4	10.0	5.00	8.35e3	9.34e3	9.83	0.894
4	4 141122G1_5	10.0	5.00	6.92e3	9.28e3	8.20	0.746
5	5 141122G1_6	10.0	5.00	7.02e3	7.80e3	9.90	0.900
6	6 141122G1_7	10.0	5.00	8.42e3	7.11e3	13.0	1.18
7	7 141122G1_8	10.0	5.00	1.02e4	1.35e4	8.34	0.758

Compound name: 13C-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	10.0	3.88	3.09e4	3.09e4	10.0	1.00
2	2 141122G1_3	10.0	3.88	2.68e4	2.68e4	10.0	1.00
3	3 141122G1_4	10.0	3.88	3.12e4	3.12e4	10.0	1.00
4	4 141122G1_5	10.0	3.88	2.74e4	2.74e4	10.0	1.00
5	5 141122G1_6	10.0	3.87	2.41e4	2.41e4	10.0	1.00
6	6 141122G1_7	10.0	3.87	2.83e4	2.83e4	10.0	1.00
7	7 141122G1_8	10.0	3.87	2.30e4	2.30e4	10.0	1.00

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Dataset: C:\Projects\Method_1694.PRO\Results\141122G1\141122G1_CRV.qld

Last Altered: Monday, November 24, 2014 13:16:42 Pacific Standard Time

Printed: Monday, November 24, 2014 13:18:55 Pacific Standard Time

Compound name: 13C-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF
1	1 141122G1_2	10.0	5.26	7.49e3	7.49e3	10.0	1.00
2	2 141122G1_3	10.0	5.25	5.44e3	5.44e3	10.0	1.00
3	3 141122G1_4	10.0	5.25	9.34e3	9.34e3	10.0	1.00
4	4 141122G1_5	10.0	5.25	9.28e3	9.28e3	10.0	1.00
5	5 141122G1_6	10.0	5.25	7.80e3	7.80e3	10.0	1.00
6	6 141122G1_7	10.0	5.25	7.11e3	7.11e3	10.0	1.00
7	7 141122G1_8	10.0	5.25	1.35e4	1.35e4	10.0	1.00

Dataset: Untitled

Last Altered: Monday, November 24, 2014 13:32:27 Pacific Standard Time
Printed: Monday, November 24, 2014 13:34:48 Pacific Standard Time

Method: C:\Projects\Method_1694.PRO\MethDB\PFC_short_100mm.mdb 14 Nov 2014 15:57:21
Calibration: C:\Projects\Method_1694.PRO\CurveDB\C18_VAL-PFC_Q1_11-22-14.cdb 24 Nov 2014 13:16:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	141122G1_1	Methanol	22-Nov-14	15:16:02
2	141122G1_2	ST141122G1-1 PFC CS1 14K0502	22-Nov-14	15:28:35
3	141122G1_3	ST141122G1-2 PFC CS2 14K0507	22-Nov-14	15:41:12
4	141122G1_4	ST141122G1-3 PFC CS3 14K0503	22-Nov-14	15:53:53
5	141122G1_5	ST141122G1-4 PFC CS4 14K0504	22-Nov-14	16:06:34
6	141122G1_6	ST141122G1-5 PFC CS5 14K0505	22-Nov-14	16:19:16
7	141122G1_7	ST141122G1-6 PFC CS6 14K0508	22-Nov-14	16:31:57
8	141122G1_8	ST141122G1-7 PFC CS7 14K2201	22-Nov-14	16:44:37
9	141122G1_9	Methanol	22-Nov-14	16:57:19
10	141122G1_10	Methanol	22-Nov-14	17:09:58
11	141122G1_11	SS141122G1-1 PFC SSS 14G1003	22-Nov-14	17:22:41
12	141122G1_12	Methanol	22-Nov-14	17:35:22
13	141122G1_13	Methanol	22-Nov-14	17:48:02
14	141122G1_14	B4K0085-BS1 OPR 1	22-Nov-14	18:00:46
15	141122G1_15	Methanol	22-Nov-14	18:13:23
16	141122G1_16	Methanol	22-Nov-14	18:26:04
17	141122G1_17	B4K0085-BLK1 Method Blank 1	22-Nov-14	18:38:45
18	141122G1_18	1400847-06RE2 @20X KELLY-SO-004 1.2456	22-Nov-14	18:51:28
19	141122G1_19	1400847-09RE2 @20X KELLY-SO-030 1.213	22-Nov-14	19:04:10
20	141122G1_20	1400847-10RE2 @20X KELLY-SO-031 1.3074	22-Nov-14	19:16:48
21	141122G1_21	1400847-03RE2 @50X KELLY-SO-001 0.6287	22-Nov-14	19:29:30
22	141122G1_22	1400847-04RE2 @50X KELLY-SO-002 0.5818	22-Nov-14	19:42:10
23	141122G1_23	1400847-05RE2 @50X KELLY-SO-003 0.5947	22-Nov-14	19:54:51
24	141122G1_24	1400847-07RE2 @50X KELLY-SO-028 0.603	22-Nov-14	20:07:34
25	141122G1_25	1400847-08RE2 @50X KELLY-SO-029 0.6037	22-Nov-14	20:20:12
26	141122G1_26	Methanol	22-Nov-14	20:32:52
27	141122G1_27	Methanol	22-Nov-14	20:45:35
28	141122G1_28	ST141122G1-8 PFC CS7 14K2201	22-Nov-14	20:58:15
29	141122G1_29	Methanol	22-Nov-14	21:10:56
30	141122G1_30	Methanol	22-Nov-14	21:23:37
31	141122G1_31	1400847-11RE2 @50X KELLY-SO-037 0.6206	22-Nov-14	21:36:18

Dataset: Untitled

Last Altered: Monday, November 24, 2014 13:32:27 Pacific Standard Time
Printed: Monday, November 24, 2014 13:34:48 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	141122G1_32	B4K0085-MS1 @50X Matrix Spike 0.6326	22-Nov-14	21:49:01
33	141122G1_33	B4K0085-MSD1@50X Matrix Spike Dup 0.6201	22-Nov-14	22:01:42
34	141122G1_34	1400846-06RE2 KELLY-SO-019 1.131	22-Nov-14	22:14:23
35	141122G1_35	1400846-07RE2 KELLY-SO-020 0.6088	22-Nov-14	22:27:04
36	141122G1_36	1400846-09RE2 KELLY-SO-022 1.3129	22-Nov-14	22:39:45
37	141122G1_37	1400847-06RE2 KELLY-SO-004 1.2456	22-Nov-14	22:52:26
38	141122G1_38	1400847-09RE2 KELLY-SO-030 1.213	22-Nov-14	23:05:07
39	141122G1_39	1400847-10RE2 KELLY-SO-031 1.3074	22-Nov-14	23:17:48
40	141122G1_40	1400847-03RE2 KELLY-SO-001 0.6287	22-Nov-14	23:30:29
41	141122G1_41	1400847-04RE2 KELLY-SO-002 0.5818	22-Nov-14	23:43:08
42	141122G1_42	1400847-05RE2 KELLY-SO-003 0.5947	22-Nov-14	23:55:49
43	141122G1_43	Methanol	23-Nov-14	00:08:30
44	141122G1_44	Methanol	23-Nov-14	00:21:14
45	141122G1_45	ST141122G1-9 PFC CS4 14K0504	23-Nov-14	00:33:57
46	141122G1_46	Methanol	23-Nov-14	00:46:41
47	141122G1_47	Methanol	23-Nov-14	00:59:23
48	141122G1_48	1400847-07RE2 KELLY-SO-028 0.603	23-Nov-14	01:12:10
49	141122G1_49	1400847-08RE2 KELLY-SO-029 0.6037	23-Nov-14	01:24:47
50	141122G1_50	1400847-11RE2 KELLY-SO-037 0.6206	23-Nov-14	01:37:28
51	141122G1_51	B4K0085-MS1 Matrix Spike 0.6326	23-Nov-14	01:50:09
52	141122G1_52	B4K0085-MSD1 Matrix Spike Dup 0.6201	23-Nov-14	02:02:50
53	141122G1_53	Methanol	23-Nov-14	02:15:31
54	141122G1_54	Methanol	23-Nov-14	02:28:13
55	141122G1_55	Methanol	23-Nov-14	02:40:54
56	141122G1_56	Methanol	23-Nov-14	02:53:34
57	141122G1_57	ST141122G1-10 PFC CS7 14K2201	23-Nov-14	03:06:15
58	141122G1_58	Methanol	23-Nov-14	03:18:57
59	141122G1_59	Methanol	23-Nov-14	03:31:37

Ⓐ More than 10 samples in sequence. Re-inject.
AC 11/24/14