



**Groundwater Sample Results,
Combined Level 2 and Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 18-0216**

*Naval Construction Battalion Center Gulfport
Gulfport, Mississippi*

July 2019

N62604_002130
NCBC GULFPORT, MS
SSIC 5000-33c

LABORATORY DATA PACKAGE 18-0216 NCBC GULFPORT MS

04/06/2018

BATTELLE

Approved for public release: distribution unlimited.

PFAS Analytical work
Project No 100112541
PFAS by DoD QSM 5.1 Table B-15
QC
Batch 18-0216
Package DP-18-0061

Submitted to:
Tetra Tech
661 Anderson Drive Foster Plaza 7
Pittsburgh, PA 15220 USA

Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061



PFAS Analytical work
Project No 100112541
PFAS by DoD QSM 5.1 Table B-15
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Submitted to:
Tetra Tech
661 Anderson Drive Foster Plaza 7
Pittsburgh, PA 15220 USA

NELAP Accreditation Number: E87856 (Florida Department of Health)
DoD-ELAP Accreditation Number: 91667

Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

Analyst Approval:		schumitzd@battelle.org 2018.04.04 13:47:56 -04'00'
QC Chemist Approval:		Digitally signed by devinec@battelle.org DN: cn=devinec@battelle.org Date: 2018.04.06 13:30:57 -04'00'
Project Manager Approval:		Digitally signed by Jonathan Thorn Date: 2018.04.06 13:38:59 -04'00'

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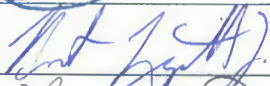

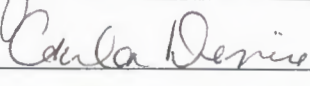




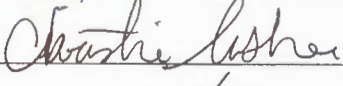

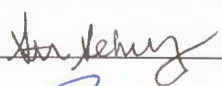

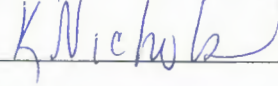

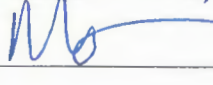

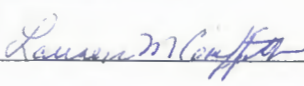
PFAS Analytical work
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Signature Page

Battelle 2018 (1 of 2) Signature Page			
Name (Printed)	Signature	Initials	Date
Jonathan Thorn		JRT	4/4/2018
Robert Lizotte, Jr.		BL	4-4-2018
FRANC PALA		FP	4-4-2018
Carla Devine		CRD	4/4/18
Denise Schmitz		DMS	4/4/18
Charles Penn McLaughlin		CPM	4/4/2018
Rich Rostucci		RR	4/4/2018
Monica Mena		MM	4/4/2018
Christie Usher		CU	4/4/18
Kevin Matracco		KM	4/4/18
Stephanie Schultz		SAS	4/4/18
Jordan Tower		JT	4/4/18
KRISTEN NICHOLS		KN	4/4/18
Quimico H Brown		CB	4/4/18
Matt Schmitz		MS	4-4-18
Sam Guimaraes		SG	4-4-18
Lauren Griffith		LG	4.4.18

QA/QC Summary Batch 18-0216

Project:	CTO-JM08 – Naval Construction Battalion Center (NCBC)
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	Water, QC
Data Set:	DP-18-0061
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

Sample Custody

Collection Date	Receipt Date	Temp (°C)
3/17/2018	3/20/2018	0.1
Corrective Actions	<ul style="list-style-type: none"> Chain of Custody forms were not signed. Client signed and send scanned copy to the laboratory. One sample did not indicate the correct number of samples received. Client corrected sample counts via email. 	
Sample Storage	The water samples were stored refrigerated until extraction.	
Related samples	The field samples associated with these field reagent blanks were extracted and reported with laboratory SDG 18-0207.	

METHOD SUMMARIES

Sample Preparation	Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% NH ₃ in methanol. Extracts were split and concentrated to dryness under nitrogen with a water bath set between 50 °C and 60 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.	
Prep comments	None.	
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations.	
Analysis Comments	Samples analyzed on Sciex 5500 LC-MS/MS. There are no MS/MSD samples associated with this batch.	
Holding Times	Extraction Date(s)	Analysis Date(s)
	3/29/2018	3/29/2018
Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.	
≤ ½ the LOQ	No exceedances noted.	
Samples >10x PB	No comments.	

QA/QC Summary
Batch 18-0216

Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.
50-150% of true value	No exceedances noted. No Comments.
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
+/- 30% of true value, $R^2 \geq 0.99$	No exceedances noted. No comments.
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
+/- 30% of true value	No exceedances noted. No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted. No comments.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
$\leq \frac{1}{2}$ the LOQ	No exceedances noted. No comments.



BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title: PFAS Analytical work	Data Set Number: DP-18-0061
Project Number: 100112541	Prep Batch Number: 18-0216
Entered By: Denise Schumitz	Entered On: 04/04/2018
Test Code (Matrix Type): Master_369(L)	

JU12 is not being used in the calibration curve for d3-MeFOSAA in the SIS method and NMeFOSAA in the BASE method. There is no impact on the data once this point is dropped from the curve.
DMS 4/4/2018

JU04 is not being used in the calibration curve for PFOS and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.
DMS 4/4/2018

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
DMS 4/4/2018

Task Leader Approval:

Supervisor Approval:

PM Approval:



Digitally signed by Jonathan

Thorn

Date: 2018.04.06 13:46:10

-04'00'



It can be done

Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541
 Preparation Batch: 18-0216
 Data Set: DP-18-0061
 Test Code: Master_369

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	0	None
Laboratory Control Sample	0	None
Matrix Spike / Matrix Spike Duplicate Recovery	NA	None
Matrix Spike / Matrix Spike Duplicate Precision	NA	None
Extracted Internal Standard Analytes (Surrogates)	0	None
Instrument Calibration	0	None
Instrument Blank	0	None
Independent Calibration Check	0	None
Continuing Calibration Verification	0	None

IS Area Report

Batch: 18-0216

Result Table: 18-0216

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
1	MeOH	Unknown	3/29/2018 19:35	13C2-PFOA	N/A	N/A	N/A	N/A
19	JU04	Standard	3/29/2018 19:46	13C2-PFOA	31730	16545	49635	Pass
37	JU05	Standard	3/29/2018 19:57	13C2-PFOA	33570	16545	49635	Pass
55	JU06	Standard	3/29/2018 20:08	13C2-PFOA	33090	16545	49635	Pass
73	JU07	Standard	3/29/2018 20:19	13C2-PFOA	27130	16545	49635	Pass
91	JU08	Standard	3/29/2018 20:29	13C2-PFOA	27340	16545	49635	Pass
109	JU09	Standard	3/29/2018 20:40	13C2-PFOA	30040	16545	49635	Pass
127	JU10	Standard	3/29/2018 20:51	13C2-PFOA	24150	16545	49635	Pass
145	JU11	Standard	3/29/2018 21:02	13C2-PFOA	24540	16545	49635	Pass
163	JU12	Standard	3/29/2018 21:12	13C2-PFOA	36740	16545	49635	Pass
181	JP83 IB	Quality Control	3/29/2018 21:23	13C2-PFOA	34260	16545	49635	Pass
199	JU13 ICC	Quality Control	3/29/2018 21:34	13C2-PFOA	32360	16545	49635	Pass
217	JU38 Branch	Quality Control	3/29/2018 21:45	13C2-PFOA	30010	16545	49635	Pass
253	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C2-PFOA	18070	16545	49635	Pass
271	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C2-PFOA	28230	16545	49635	Pass
289	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C2-PFOA	19720	16545	49635	Pass
307	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C2-PFOA	23890	16545	49635	Pass
325	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C2-PFOA	28630	16545	49635	Pass
343	JU09 CCV	Quality Control	3/29/2018 23:00	13C2-PFOA	28060	16545	49635	Pass
20	JU04	Standard	3/29/2018 19:46	13C4-PFOS	11010	5495	16485	Pass
38	JU05	Standard	3/29/2018 19:57	13C4-PFOS	10320	5495	16485	Pass
56	JU06	Standard	3/29/2018 20:08	13C4-PFOS	10990	5495	16485	Pass
74	JU07	Standard	3/29/2018 20:19	13C4-PFOS	8191	5495	16485	Pass
92	JU08	Standard	3/29/2018 20:29	13C4-PFOS	8594	5495	16485	Pass
110	JU09	Standard	3/29/2018 20:40	13C4-PFOS	10450	5495	16485	Pass
128	JU10	Standard	3/29/2018 20:51	13C4-PFOS	10140	5495	16485	Pass
146	JU11	Standard	3/29/2018 21:02	13C4-PFOS	9230	5495	16485	Pass
182	JP83 IB	Quality Control	3/29/2018 21:23	13C4-PFOS	10510	5495	16485	Pass
200	JU13 ICC	Quality Control	3/29/2018 21:34	13C4-PFOS	10710	5495	16485	Pass
218	JU38 Branch	Quality Control	3/29/2018 21:45	13C4-PFOS	10090	5495	16485	Pass
254	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C4-PFOS	5505	5495	16485	Pass
272	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C4-PFOS	9766	5495	16485	Pass
290	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C4-PFOS	6756	5495	16485	Pass
308	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C4-PFOS	8856	5495	16485	Pass
326	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C4-PFOS	8973	5495	16485	Pass
344	JU09 CCV	Quality Control	3/29/2018 23:00	13C4-PFOS	10100	5495	16485	Pass
21	JU04	Standard	3/29/2018 19:46	13C2-PFDA	42510	21000	63000	Pass
39	JU05	Standard	3/29/2018 19:57	13C2-PFDA	43880	21000	63000	Pass

IS Area Report

Batch: 18-0216

Result Table: 18-0216

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
57	JU06	Standard	3/29/2018 20:08	13C2-PFDA	42000	21000	63000	Pass
75	JU07	Standard	3/29/2018 20:19	13C2-PFDA	35150	21000	63000	Pass
93	JU08	Standard	3/29/2018 20:29	13C2-PFDA	36890	21000	63000	Pass
111	JU09	Standard	3/29/2018 20:40	13C2-PFDA	40570	21000	63000	Pass
129	JU10	Standard	3/29/2018 20:51	13C2-PFDA	37640	21000	63000	Pass
147	JU11	Standard	3/29/2018 21:02	13C2-PFDA	37280	21000	63000	Pass
165	JU12	Standard	3/29/2018 21:12	13C2-PFDA	52430	21000	63000	Pass
183	JP83 IB	Quality Control	3/29/2018 21:23	13C2-PFDA	45600	21000	63000	Pass
201	JU13 ICC	Quality Control	3/29/2018 21:34	13C2-PFDA	40740	21000	63000	Pass
219	JU38 Branch	Quality Control	3/29/2018 21:45	13C2-PFDA	39980	21000	63000	Pass
255	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C2-PFDA	27840	21000	63000	Pass
273	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C2-PFDA	39750	21000	63000	Pass
291	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C2-PFDA	30690	21000	63000	Pass
309	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C2-PFDA	34240	21000	63000	Pass
327	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C2-PFDA	39900	21000	63000	Pass
345	JU09 CCV	Quality Control	3/29/2018 23:00	13C2-PFDA	40700	21000	63000	Pass
35	JU04	Standard	3/29/2018 19:46	13C3-PFBA	27720	11490	34470	Pass
53	JU05	Standard	3/29/2018 19:57	13C3-PFBA	30010	11490	34470	Pass
71	JU06	Standard	3/29/2018 20:08	13C3-PFBA	22980	11490	34470	Pass
89	JU07	Standard	3/29/2018 20:19	13C3-PFBA	24680	11490	34470	Pass
107	JU08	Standard	3/29/2018 20:29	13C3-PFBA	22300	11490	34470	Pass
125	JU09	Standard	3/29/2018 20:40	13C3-PFBA	26380	11490	34470	Pass
143	JU10	Standard	3/29/2018 20:51	13C3-PFBA	24160	11490	34470	Pass
161	JU11	Standard	3/29/2018 21:02	13C3-PFBA	19020	11490	34470	Pass
179	JU12	Standard	3/29/2018 21:12	13C3-PFBA	27900	11490	34470	Pass
197	JP83 IB	Quality Control	3/29/2018 21:23	13C3-PFBA	29780	11490	34470	Pass
215	JU13 ICC	Quality Control	3/29/2018 21:34	13C3-PFBA	24700	11490	34470	Pass
233	JU38 Branch	Quality Control	3/29/2018 21:45	13C3-PFBA	24470	11490	34470	Pass
269	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C3-PFBA	21440	11490	34470	Pass
287	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C3-PFBA	25920	11490	34470	Pass
305	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C3-PFBA	18910	11490	34470	Pass
323	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C3-PFBA	22930	11490	34470	Pass
341	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C3-PFBA	24970	11490	34470	Pass
359	JU09 CCV	Quality Control	3/29/2018 23:00	13C3-PFBA	23160	11490	34470	Pass

It can be done

Battelle Project No:

Sample Receipt FormApproved: Authorized

Project Number: 100115738-JM08 **Client:** Tetrattech
Received by: Schumitz, Matt **Date/Time Received:** Tuesday, March 20, 2018 10:30 AM
No. of Shipping Containers: 1

SHIPMENT

Method of Delivery: Commercial Carrier **Tracking Number:** Fed Ex
COC Forms: Shipped with samples No Forms

Cooler(s)/Box(es)

Cntr	Type	Tracking No.	Seal	Seal	Container	Therm.	Temp C	Smpls
1 of 1	Cooler	8748 4755 5975	Tape	Intact	Intact	Therm_1	0.1	12

Samples

Sample Labels: Sample labels agree with COC forms
 Discrepancies (see Sample Custody Corrective Action Form)

Container Seals: Tape Custody Seals Other Seals (See sample Log)
 Seals intact for each shipping container
 Seals broken (See sample log for impacted samples)

Condition of Samples: Sample containers intact
 Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): 0.1 **Temperature Blank used** Yes No
(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: Yes No Unknown

Initial pH 5-9?: Yes No NA
If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: Yes No NA
If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: Yes No NA
Individual sample deviations noted on sample log

Samples Containers:
Samples returned in PC-grade jars: Yes No Unknown /Lot No.: UnKnown

Storage Location: Custody: Refrigerator - R0118 (NA) **BDO IDs Assigned:** J5386 - J5397

Samples logged in by: Schumitz, Matt **Date/Time:** 03/20/2018 10:30 AM

Approved By: _____ **Approved On:** _____

Authorized By: _____ **Authorized On:** _____

Report Corrective Actions

Corrective Action No: 1 of 1

Authorized Approved:

COC Client: Tetrattech
COC Project: 112G08005-JM08
COC Date: 3/20/2018 2:12:

Description of Problem:		Explanation:
Custody	Other	Sample 06GW08031718 is listed on the COC to have 2 bottles but there were 6 bottles in the cooler.
Samples not relinquished from sender		There are no signatures on the COC

Documentation of project manager notification

Sample Custodian Schumitz, Matt **Date:** 3/20/2018 2:34:00 PM
Laboratory Manager: Thorn, Jonathan **Date:** 3/27/2018 12:47:00 P
Project Manager: Thorn, Jonathan **Date:** 3/27/2018 12:47:00 P

Documentation of client notification (should be completed by project manager within 24 hrs):

On 20-Mar-18 I contacted Roof, Greg at Tetra Tech

Results of communication with client (Describe any corrective action directed by the client):

See attached email response sent by William Olson.

Date this form was received back to the custodian: _____

Reference Number: _____

Thorn, Jonathan R

From: Olson, William <William.Olson@tetrattech.com>
Sent: Wednesday, March 21, 2018 8:49 AM
To: Thorn, Jonathan R
Subject: RE: JM08 sample receipt
Attachments: COC GPT site 6.pdf

Message received from outside the Battelle network. Carefully examine it before you open any links or attachments.

- Sample 06GW08031718 is listed on the COC as having 2 containers, however 6 were received – please verify that this is correct (this is the sample for the MS/MSD, so 6 would be correct, I believe)
- Yes that is MS/MSD
- COC forms were not signed to relinquish custody of the samples to us, please sign and scan a copy over to us to complete the COC forms.

Please see attached

verify that you do not want the FRB samples extracted and analyzed with the remaining field samples, yes that is correct

From: Thorn, Jonathan R [mailto:thorn@battelle.org]
Sent: Wednesday, March 21, 2018 7:55 AM
To: Roof, Gregory <Gregory.Roof@tetrattech.com>
Cc: Olson, William <William.Olson@tetrattech.com>
Subject: FW: JM08 sample receipt

Greg,
 Apologies for the delay in getting this to you – the email address I had was incorrect. The email below is in regard to the JM08 samples received yesterday.
 Best Regards,
 Jon

From: Thorn, Jonathan R
Sent: Tuesday, March 20, 2018 4:14 PM
To: 'greg.roof@tetrattech.com' <greg.roof@tetrattech.com>
Cc: 'Olson, William' <William.Olson@tetrattech.com>; Schumitz, Matthew <SCHUMITZM@battelle.org>
Subject: JM08 sample receipt

Greg and William,
 Attached are copies of the COC forms for the JM08 shipment received today. Samples arrived in good condition and within temperature specifications.

There were two corrective actions (see page 2) that require verification or action from you (William):

- Sample 06GW08031718 is listed on the COC as having 2 containers, however 6 were received – please verify that this is correct (this is the sample for the MS/MSD, so 6 would be correct, I believe)
- COC forms were not signed to relinquish custody of the samples to us, please sign and scan a copy over to us to complete the COC forms.

TAT will be based on 21 calendar days from receipt of samples, making the delivery date for this set as 4/10/2018. The statement of work for these samples states that the 3 FRB samples will not be analyzed unless the associated samples have PFAS concentrations greater than 1/3 the LOQ, please verify that you do not want the FRB samples extracted and analyzed with the remaining field samples (if extracted later, the FRB samples will not have an associated MS/MSD sample, however, the matrix on these is PFAS free laboratory water, so that should not be an issue either). We can start extractions as soon as we get verification on the FRB samples.

Please do not hesitate to contact me if you have any questions or concerns.

Best Regards,
Jon

Jonathan Thorn

Laboratory Director
Analytical Chemistry Services
Office: 781.681.5565 | Mobile: 781.710.9664 | Fax: 614.458.6917
thorn@battelle.org

Battelle

141 Longwater Drive
Suite 202
Norwell, MA 02061
<http://www.battelle.org>

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It can be done

ShpNo SHP-180320-02

Battelle Project No:

Sample Receipt Form Details

Approved: Authorized

Project Number: 100115738-JM08

Client: Tetrattech

Received by: Schumitz, Matt

Date/Time Received: Tuesday, March 20, 2018 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J5386	06GW09FRB0318	03/17/18 9:05	03/20/18 14:22	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5387	06GW08031718	03/17/18 9:25	03/20/18 14:22	6	GW	0.1	NA	NA	NA	R0118 (NA)			MSMSD
J5388	06GW09031718	03/17/18 9:23	03/20/18 14:25	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5389	06GW04031718	03/17/18 9:30	03/20/18 14:27	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5390	06GW16031718	03/17/18 10:23	03/20/18 14:28	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5391	06GW15FRB0318	03/17/18 10:25	03/20/18 14:28	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5392	06GW15031718	03/17/18 10:30	03/20/18 14:29	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5393	06GW14FRB0318	03/17/18 10:35	03/20/18 14:29	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5394	06GW14031718	03/17/18 10:40	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5395	06GW06031718	03/17/18 11:25	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5396	06GW03031718	03/17/18 12:05	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5397	06FDGW0318	03/17/18 0:00	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			

Total Samples: 12

BATTELLE

It can be done

Chain-of-Custody

Client Contact Information		Project Manager: <u>G. Root</u>		Sampling Site: <u>NCBC Gulfport Site 6</u>		Site Information:	
Sampler Information (print name): <u>W.D. Olson</u>		Phone: <u>850 443 6855</u>		Email: <u>William.Olson@tetratech.com</u>		COC #	
Turnaround Time (TAT) Requested:		Normal Priority		RT/SH		Page#	
Project Name: <u>112608005-Jm08</u>		Time Zone:		Analytic		T	
Project No: <u>10015738-Jm08</u>		Sample Date		Sample Time		T	
Sample Identification		Sample Type		Matrix		Total # of Samples	
JS386	<u>06GW09FRB0318</u>	<u>3-17/18</u>	<u>0905</u>	<u>Grb</u>	<u>QC</u>		
JS387	<u>06GW08031718</u>		<u>0925</u>	<u>Grb</u>	<u>SW</u>		MS/MSD
JS388	<u>06GW09031718</u>		<u>0923</u>	<u>Grb</u>	<u>SW</u>		
JS389	<u>06GW04031718</u>		<u>0930</u>	<u>Grb</u>	<u>SW</u>		
JS390	<u>06GW16031718</u>		<u>1023</u>	<u>Grb</u>	<u>SW</u>		
JS391	<u>06GW15FRB0318</u>		<u>1025</u>	<u>QC</u>	<u>QC</u>		
JS392	<u>06GW15031718</u>		<u>1030</u>	<u>Grb</u>	<u>GW</u>		
JS393	<u>06GW14FRB0318</u>		<u>1035</u>	<u>QC</u>	<u>QC</u>		
JS394	<u>06GW14031718</u>		<u>1040</u>	<u>Grb</u>	<u>GW</u>		
JS395	<u>06GW06031718</u>		<u>1125</u>	<u>Grb</u>	<u>GW</u>		
JS396	<u>06GW03031718</u>		<u>1205</u>	<u>Grb</u>	<u>GW</u>		
JS397	<u>06FDGW0318</u>		<u>0000</u>	<u>QC</u>	<u>GW</u>		
Receipt Temperature: (°C) <u>0.1^d</u>		Samples Intact: <u>Yes - No</u>		Samples on Ice: <u>Yes - No</u>		Receipt Comments:	
Relinquished by (Print/Sign): <u>W.D. Olson</u>		Company: <u>TT</u>		Date/Time: <u>3-17/18 1100</u>		Received by (Print/Sign): <u>Matt Schmittz</u>	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):	
Comments: <u>Fedex 8748 4755 5975</u>							

ORIGIN ID: TLHA (850) 385-9899
DISTRIBUTION
1558 VILLAGE SQUARE BLVD STE 2
STE 2
TALLAHASSEE, FL 32309
UNITED STATES US

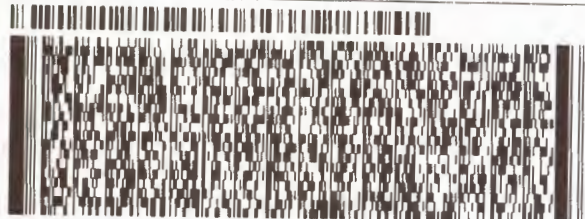
SHIP DATE: 19MAR18
ACTWGT: 39.30 LB
CAD: 6995894/SSF01822
DIMS: 25x14x13 IN
BILL THIRD PARTY

Part # 15620 SHIP/SATURDAY 01/19

TO J. THORN
BATTELLE
141 LONGWATER DR
NORWELL MA 02061
(781) 681-5688 REF:
INU: PG: DEPT:

0.1° Therm-1
MOS 3-20-18
10:30

RECIPIENT: PEEL HERE



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TRK# 8748 4755 5975
0215

TUE - 20 MAR 10:30A
PRIORITY OVERNIGHT
AHS
02061
MA - US BOS

XE XPUA



8748 4/00 09/0

75

Form ID No. 0215

SPH31

Recipient's Copy

4a Express Package Service * To most locations. Packages up to 150 lbs.

- FedEx Priority Overnight Next business morning * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.
- FedEx First Overnight Earliest next business morning delivery to select locations.*
- FedEx 2Day Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

- FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- FedEx 2Day Freight Second business day. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500.

- FedEx Envelope*
- FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak.
- FedEx Box
- FedEx Tube
- Other

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- No Signature Required Package may be left without containing a signature for delivery.
- Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

- No
- Yes As per attached Shipper's Declaration.
- Yes Shipper's Declaration not required.
- Dry Ice Dry Ice, 9, UN 1845 x kg
- Cargo Aircraft Only

7 Payment Bill to:

- Sender (Acct. No. in Section will be billed)
- Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages Total Weight Credit Card Auth.

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	JP83 IB			
Battelle ID	JP83 IB_03/29/2018			
Sample Type	IB			
Collection Date	NA			
Extraction Date	NA			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	NA			
Sample Size	NA			
Size Unit-Basis	NA			
Units	ng/L	LOD	LOQ	
PFBA	0.40	0.50	5.00	
PFHxA	0.80	0.50	5.00	
PFHpA	0.89	0.50	5.00	
PFOA	0.76	0.50	5.00	
PFNA	0.72	1.00	5.00	
PFDA	0.85	0.50	5.00	
PFUnA	0.80	1.00	5.00	
PFDoA	0.77	0.50	5.00	
PFTrDA	0.81	0.50	5.00	
PFTeDA	0.96	1.00	5.00	
NMeFOSAA	1.11	2.50	5.00	
NEtFOSAA	1.36	1.00	5.00	
PFBS	0.90	0.50	5.00	
PFHxS	0.89	0.50	5.00	
PFOS	0.88	0.50	5.00	
Surrogate Recoveries (%)				
13C4-PFBA	97			
13C5-PFHxA	94			
13C4-PFHpA	100			
13C8-PFOA	96			
13C9-PFNA	96			
13C6-PFDA	107			
13C7-PFUnA	98			
13C2-PFDoA	96			
13C2-PFTeDA	95			
d3-MeFOSAA	99			
d5-EtFOSAA	110			
13C3-PFBS	98			
13C3-PFHxS	106			
13C8-PFOS	105			



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Procedural Blank		
Battelle ID	CQ350PB-FS		
Sample Type	PB		
Collection Date	03/29/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	WATER		
Sample Size	0.250		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.35 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTrDA	0.16 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.17 J	0.50	5.00
PFHxS	0.21 J	0.50	5.00
PFOS	0.33 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	76
13C5-PFHxA	105
13C4-PFHpA	101
13C8-PFOA	100
13C9-PFNA	105
13C6-PFDA	103
13C7-PFUnA	104
13C2-PFDoA	87
13C2-PFTeDA	57
d3-MeFOSAA	113
d5-EtFOSAA	102
13C3-PFBS	103
13C3-PFHxS	89
13C8-PFOS	111



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Laboratory Control Sample			
Battelle ID	CQ351LCS-FS			
Sample Type	LCS			
Collection Date	03/29/2018			
Extraction Date	03/29/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	Target	Recovery	Qual
PFBA	9.64	10.00	96	
PFHxA	9.38	10.10	93	
PFHpA	8.11	10.00	81	
PFOA	9.55	10.00	96	
PFNA	9.65	10.00	97	
PFDA	9.87	10.00	99	
PFUnA	9.50	10.00	95	
PFDoA	10.99	10.00	110	
PFTTrDA	12.64	10.00	126	
PFTeDA	11.29	10.00	113	
NMeFOSAA	8.40	10.00	84	
NEtFOSAA	11.85	10.00	119	
PFBS	11.93	10.10	118	
PFHxS	8.79	10.10	87	
PFOS	8.83	10.00	88	

Surrogate Recoveries (%)

13C4-PFBA	92
13C5-PFHxA	100
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	94
13C6-PFDA	96
13C7-PFUnA	104
13C2-PFDoA	90
13C2-PFTeDA	60
d3-MeFOSAA	98
d5-EtFOSAA	79
13C3-PFBS	80
13C3-PFHxS	99
13C8-PFOS	94



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	06GW09FRB0318		
Battelle ID	J5386-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.260		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTeDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	89
13C5-PFHxA	101
13C4-PFHpA	104
13C8-PFOA	108
13C9-PFNA	113
13C6-PFDA	94
13C7-PFUnA	90
13C2-PFDoA	81
13C2-PFTeDA	56
d3-MeFOSAA	67
d5-EtFOSAA	95
13C3-PFBS	98
13C3-PFHxS	102
13C8-PFOS	116

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

L18-0216_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID	06GW15FRB0318		
Battelle ID	J5391-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	80
13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	94
13C9-PFNA	91
13C6-PFDA	95
13C7-PFUnA	96
13C2-PFDaA	78
13C2-PFTeDA	58
d3-MeFOSAA	81
d5-EtFOSAA	65
13C3-PFBS	77
13C3-PFHxS	69
13C8-PFOS	80

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

L18-0216_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID	06GW14FRB0318		
Battelle ID	J5393-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	85
13C5-PFHxA	90
13C4-PFHpA	94
13C8-PFOA	95
13C9-PFNA	102
13C6-PFDA	100
13C7-PFUnA	102
13C2-PFDaA	87
13C2-PFTeDA	58
d3-MeFOSAA	99
d5-EtFOSAA	91
13C3-PFBS	112
13C3-PFHxS	104
13C8-PFOS	114

Analyzed by: Schumitz, Denise



Glossary of Data Qualifiers

Flag: Application:

B	Analyte found in the sample at a concentration <5x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the Limit of Quantitation (LOQ)
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Method detection limit (MDL) value, MDL reported



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	JP83 IB		
Battelle ID	JP83 IB_03/29/2018		
Sample Type	IB		
Collection Date	NA		
Extraction Date	NA		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	NA		
Sample Size	NA		
Size Unit-Basis	NA		
Units	ng/L	LOD	LOQ
PFBA	0.40	0.50	5.00
PFHxA	0.80	0.50	5.00
PFHpA	0.89	0.50	5.00
PFOA	0.76	0.50	5.00
PFNA	0.72	1.00	5.00
PFDA	0.85	0.50	5.00
PFUnA	0.80	1.00	5.00
PFDoA	0.77	0.50	5.00
PFTTrDA	0.81	0.50	5.00
PFTeDA	0.96	1.00	5.00
NMeFOSAA	1.11	2.50	5.00
NEtFOSAA	1.36	1.00	5.00
PFBS	0.90	0.50	5.00
PFHxS	0.89	0.50	5.00
PFOS	0.88	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	97
13C5-PFHxA	94
13C4-PFHpA	100
13C8-PFOA	96
13C9-PFNA	96
13C6-PFDA	107
13C7-PFUnA	98
13C2-PFDoA	96
13C2-PFTeDA	95
d3-MeFOSAA	99
d5-EtFOSAA	110
13C3-PFBS	98
13C3-PFHxS	106
13C8-PFOS	105



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Procedural Blank		
Battelle ID	CQ350PB-FS		
Sample Type	PB		
Collection Date	03/29/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	WATER		
Sample Size	0.250		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.35 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTeDA	0.16 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.17 J	0.50	5.00
PFHxS	0.21 J	0.50	5.00
PFOS	0.33 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	76
13C5-PFHxA	105
13C4-PFHpA	101
13C8-PFOA	100
13C9-PFNA	105
13C6-PFDA	103
13C7-PFUnA	104
13C2-PFDoA	87
13C2-PFTeDA	57
d3-MeFOSAA	113
d5-EtFOSAA	102
13C3-PFBS	103
13C3-PFHxS	89
13C8-PFOS	111



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Laboratory Control Sample			
Battelle ID	CQ351LCS-FS			
Sample Type	LCS			
Collection Date	03/29/2018			
Extraction Date	03/29/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	Target	Recovery	Qual
PFBA	9.64	10.00	96	
PFHxA	9.38	10.10	93	
PFHpA	8.11	10.00	81	
PFOA	9.55	10.00	96	
PFNA	9.65	10.00	97	
PFDA	9.87	10.00	99	
PFUnA	9.50	10.00	95	
PFDoA	10.99	10.00	110	
PFTTrDA	12.64	10.00	126	
PFTeDA	11.29	10.00	113	
NMeFOSAA	8.40	10.00	84	
NEtFOSAA	11.85	10.00	119	
PFBS	11.93	10.10	118	
PFHxS	8.79	10.10	87	
PFOS	8.83	10.00	88	

Surrogate Recoveries (%)

13C4-PFBA	92
13C5-PFHxA	100
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	94
13C6-PFDA	96
13C7-PFUnA	104
13C2-PFDoA	90
13C2-PFTeDA	60
d3-MeFOSAA	98
d5-EtFOSAA	79
13C3-PFBS	80
13C3-PFHxS	99
13C8-PFOS	94



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	06GW09FRB0318		
Battelle ID	J5386-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.260		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTeDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	89
13C5-PFHxA	101
13C4-PFHpA	104
13C8-PFOA	108
13C9-PFNA	113
13C6-PFDA	94
13C7-PFUnA	90
13C2-PFDoA	81
13C2-PFTeDA	56
d3-MeFOSAA	67
d5-EtFOSAA	95
13C3-PFBS	98
13C3-PFHxS	102
13C8-PFOS	116

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

L18-0216_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID	06GW15FRB0318		
Battelle ID	J5391-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	80
13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	94
13C9-PFNA	91
13C6-PFDA	95
13C7-PFUnA	96
13C2-PFDaA	78
13C2-PFTeDA	58
d3-MeFOSAA	81
d5-EtFOSAA	65
13C3-PFBS	77
13C3-PFHxS	69
13C8-PFOS	80

Analyzed by: Schumitz, Denise

Printed: 4/4/2018



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID	06GW14FRB0318		
Battelle ID	J5393-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	85
13C5-PFHxA	90
13C4-PFHpA	94
13C8-PFOA	95
13C9-PFNA	102
13C6-PFDA	100
13C7-PFUnA	102
13C2-PFDaA	87
13C2-PFTeDA	58
d3-MeFOSAA	99
d5-EtFOSAA	91
13C3-PFBS	112
13C3-PFHxS	104
13C8-PFOS	114

Analyzed by: Schumitz, Denise



Glossary of Data Qualifiers

Flag: Application:

B	Analyte found in the sample at a concentration <5x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the Limit of Quantitation (LOQ)
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Method detection limit (MDL) value, MDL reported

Analyte: PFBS_1 (298.9 / 80.0)

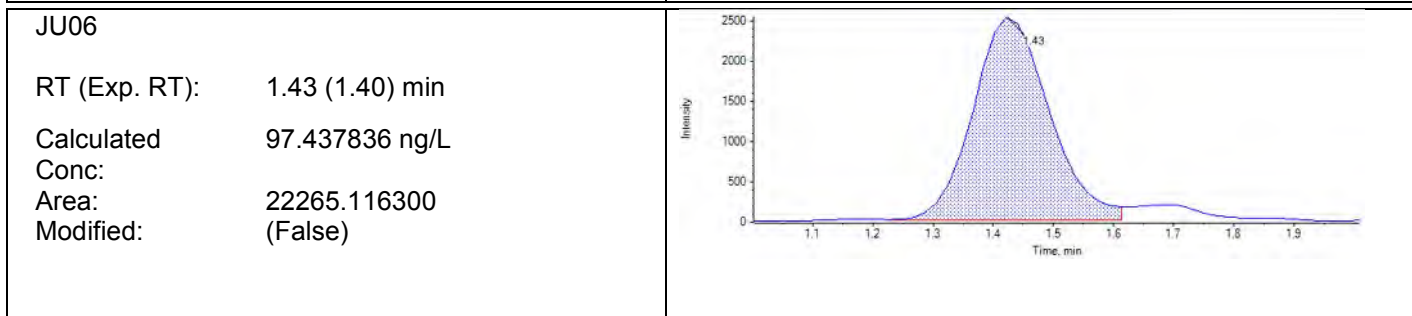
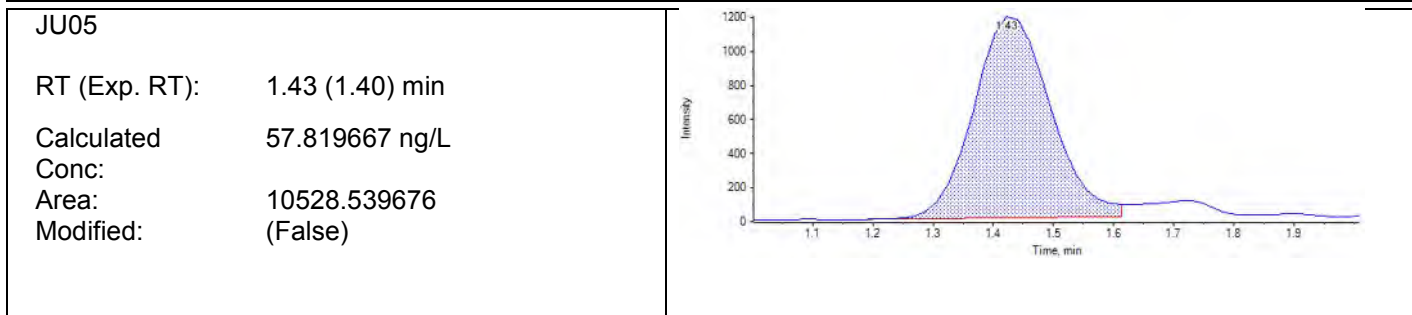
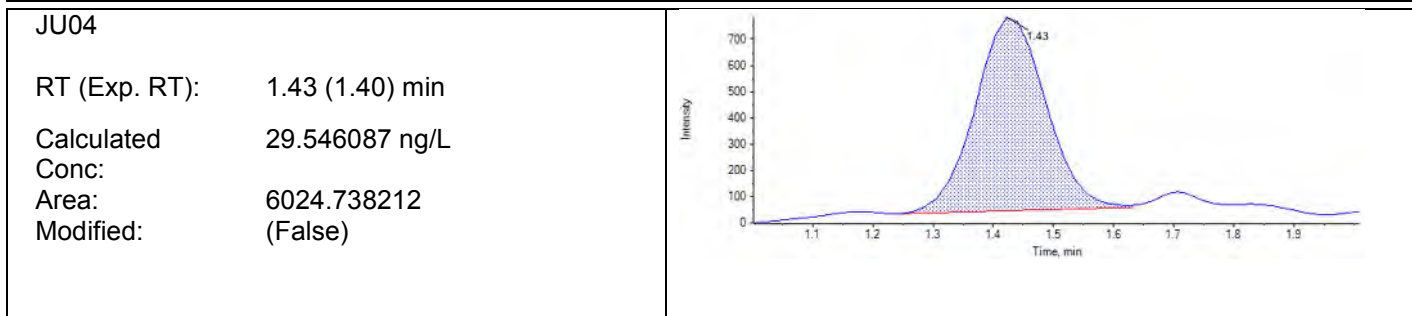
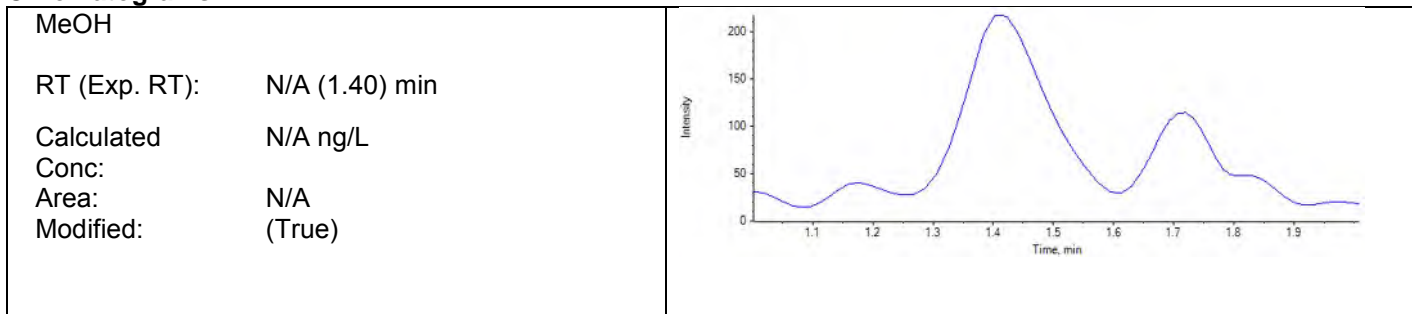
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

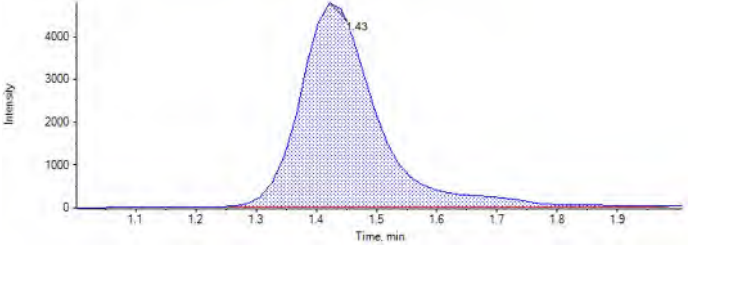
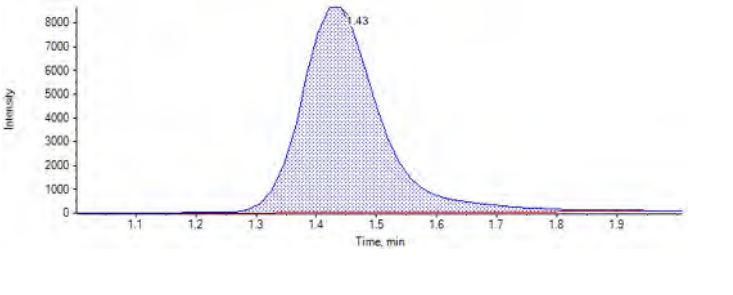
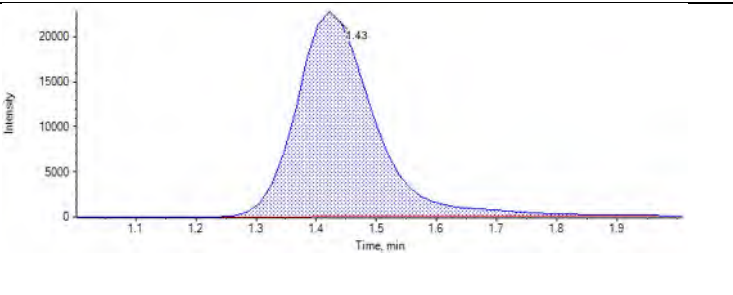
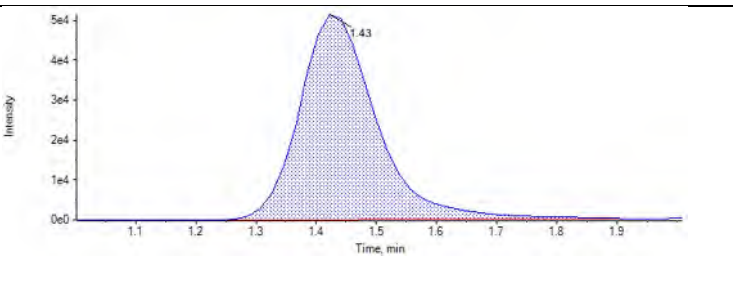
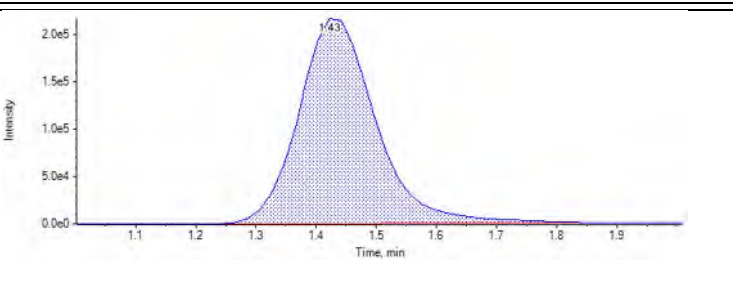
Samples:

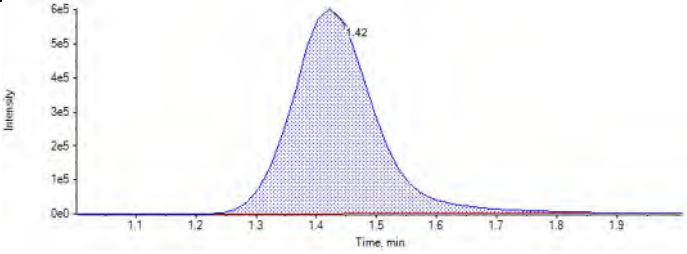
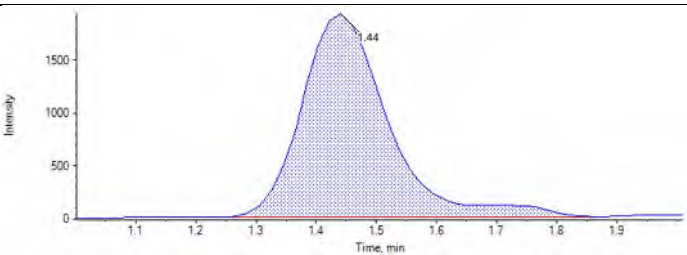
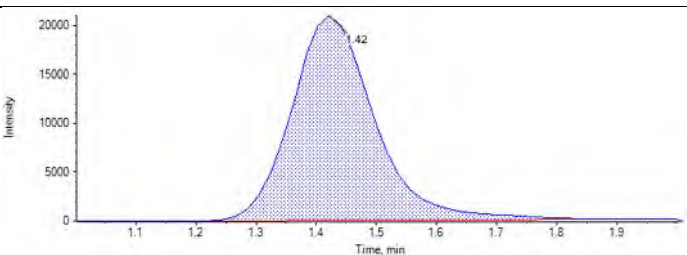
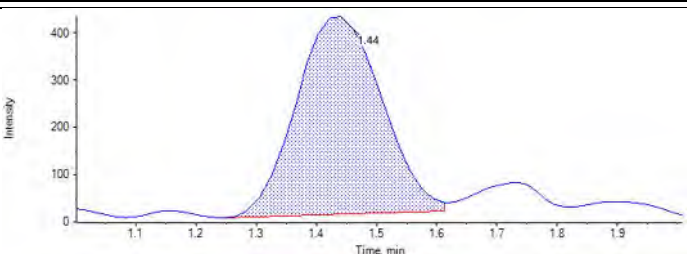
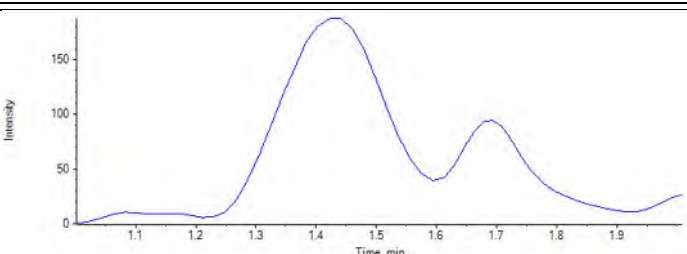
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	6025	1.43	7904	25.25000	29.546087	117
JU05	Standard	3/29/2018 7:57:30 PM	10529	1.43	7045	50.50000	57.819667	114
JU06	Standard	3/29/2018 8:08:16 PM	22265	1.43	8833	101.00000	97.437836	96
JU07	Standard	3/29/2018 8:19:03 PM	42238	1.43	6412	252.50000	254.440891	101
JU08	Standard	3/29/2018 8:29:49 PM	78021	1.43	6875	505.00000	438.237188	87
JU09	Standard	3/29/2018 8:40:36 PM	203152	1.43	8218	1010.00000	954.534400	95
JU10	Standard	3/29/2018 8:51:22 PM	454931	1.43	8008	2525.00000	2193.471695	87
JU11	Standard	3/29/2018 9:02:09 PM	1934440	1.43	7264	10100.00000	10280.713973	102
JU12	Standard	3/29/2018 9:12:55 PM	5692516	1.42	10740	20200.00000	20463.048262	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	19188	1.44	8236	N/A	90.064380	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	200186	1.42	7922	1010.00000	975.646795	97
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	4144	1.44	6641	N/A	24.208354	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	4880	1.44	4528	N/A	41.732724	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	480519	1.43	6222	N/A	2981.803725	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3401	1.44	5265	N/A	25.059831	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	946	1.45	5442	N/A	6.834147	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	1080	1.45	7973	N/A	5.348253	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	202415	1.42	7535	1010.00000	1037.184196	103

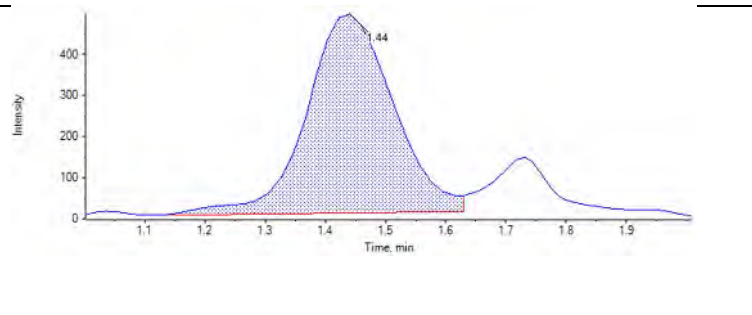
Chromatograms:



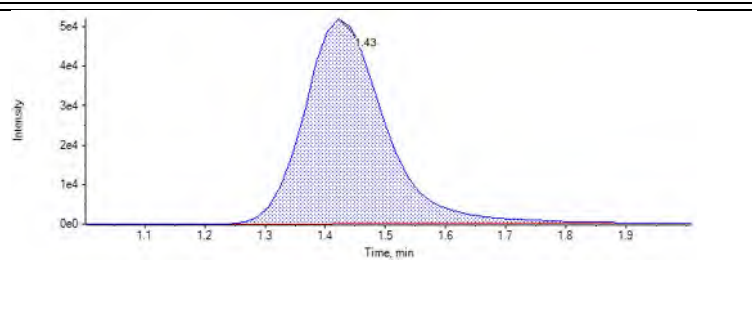
<p>JU07</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 254.440891 ng/L</p> <p>Area: 42238.275727</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 438.237188 ng/L</p> <p>Area: 78021.207581</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 954.534400 ng/L</p> <p>Area: 203152.031447</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 2193.471695 ng/L</p> <p>Area: 454931.121920</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.43 (1.40) min</p> <p>Calculated Conc: 10280.713973 ng/L</p> <p>Area: 1934439.824025</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 20463.048262 ng/L</p> <p>Area: 5692516.171344</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 90.064380 ng/L</p> <p>Area: 19187.579901</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 975.646795 ng/L</p> <p>Area: 200186.421622</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 24.208354 ng/L</p> <p>Area: 4143.545966</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

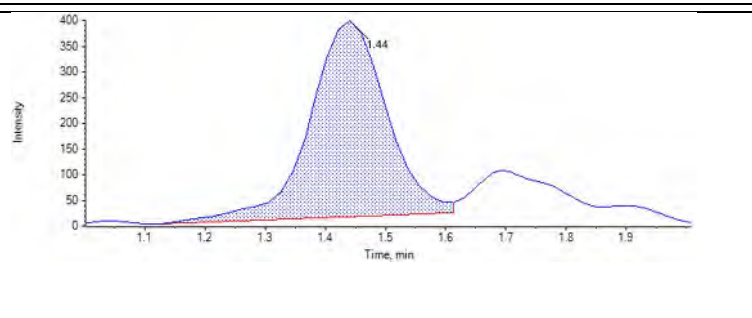
CQ350PB-FS(3)
RT (Exp. RT): 1.44 (1.40) min
Calculated Conc: 41.732724 ng/L
Area: 4880.225668
Modified: (False)



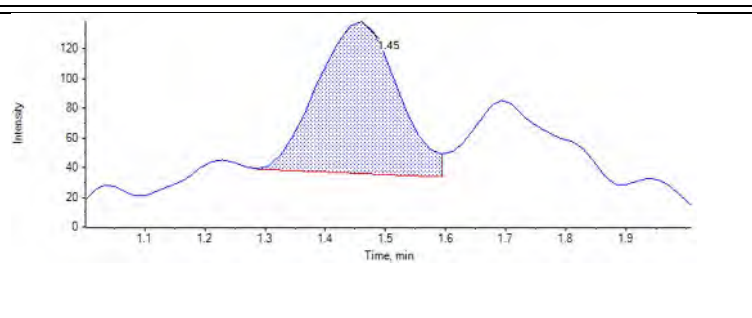
CQ351LCS-FS(3)
RT (Exp. RT): 1.43 (1.40) min
Calculated Conc: 2981.803725 ng/L
Area: 480518.509148
Modified: (False)



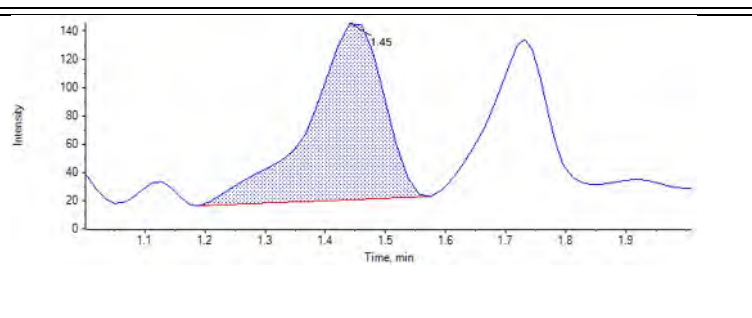
J5386-FS(3)
RT (Exp. RT): 1.44 (1.40) min
Calculated Conc: 25.059831 ng/L
Area: 3401.367033
Modified: (False)



J5391-FS(3)
RT (Exp. RT): 1.45 (1.40) min
Calculated Conc: 6.834147 ng/L
Area: 946.375001
Modified: (False)

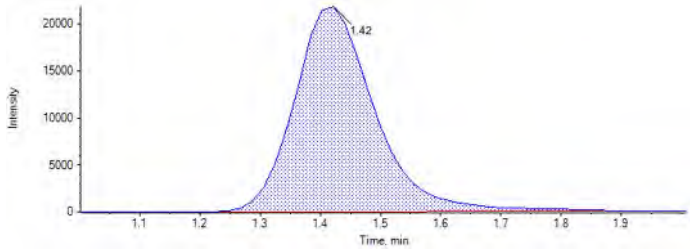


J5393-FS(3)
RT (Exp. RT): 1.45 (1.40) min
Calculated Conc: 5.348253 ng/L
Area: 1079.741986
Modified: (False)



JU09 CCV

RT (Exp. RT): 1.42 (1.40) min
Calculated Conc: 1037.184196 ng/L
Area: 202414.691855
Modified: (False)



Analyte: PFBS_2 (298.9 / 99.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

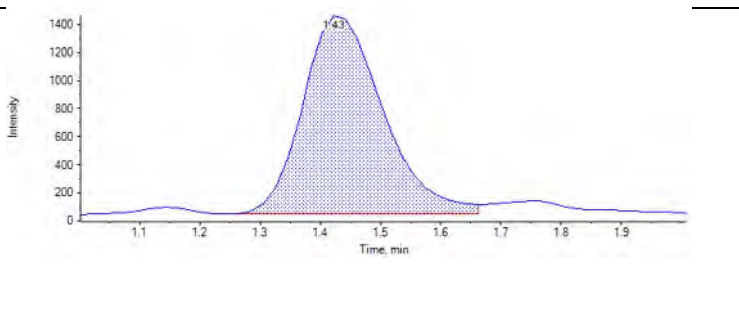
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2139	1.44	7904	25.25000	29.342453	116
JU05	Standard	3/29/2018 7:57:30 PM	3843	1.44	7045	50.50000	62.969644	125
JU06	Standard	3/29/2018 8:08:16 PM	6915	1.42	8833	101.00000	91.992005	91
JU07	Standard	3/29/2018 8:19:03 PM	13136	1.43	6412	252.50000	246.764500	98
JU08	Standard	3/29/2018 8:29:49 PM	25769	1.43	6875	505.00000	454.561605	90
JU09	Standard	3/29/2018 8:40:36 PM	61521	1.42	8218	1010.00000	911.657403	90
JU10	Standard	3/29/2018 8:51:22 PM	143721	1.43	8008	2525.00000	2190.868679	87
JU11	Standard	3/29/2018 9:02:09 PM	610663	1.43	7264	10100.00000	10274.963832	102
JU12	Standard	3/29/2018 9:12:55 PM	1801465	1.42	10740	20200.00000	20506.129879	102
JP83 IB	Unknown	3/29/2018 9:23:42 PM	6642	1.44	8236	N/A	94.877131	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	62891	1.42	7922	1010.00000	966.910914	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6641	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1384	1.45	4528	N/A	33.626595	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	148316	1.42	6222	N/A	2911.084354	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1224	1.44	5265	N/A	24.677200	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	5442	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	7973	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	61579	1.42	7535	1010.00000	995.495560	99

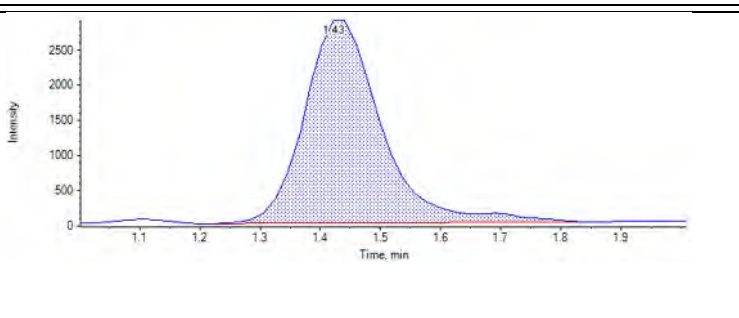
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 29.342453 ng/L</p> <p>Area: 2138.678469</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 62.969644 ng/L</p> <p>Area: 3843.418254</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 91.992005 ng/L</p> <p>Area: 6915.463749</p> <p>Modified: (False)</p>	

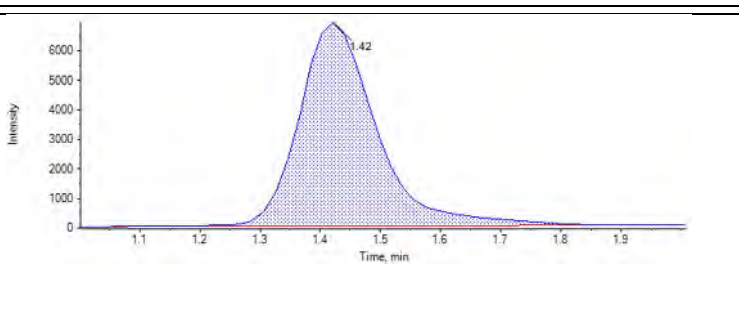
JU07
RT (Exp. RT): 1.43 (1.40) min
Calculated Conc: 246.764500 ng/L
Area: 13136.147526
Modified: (False)



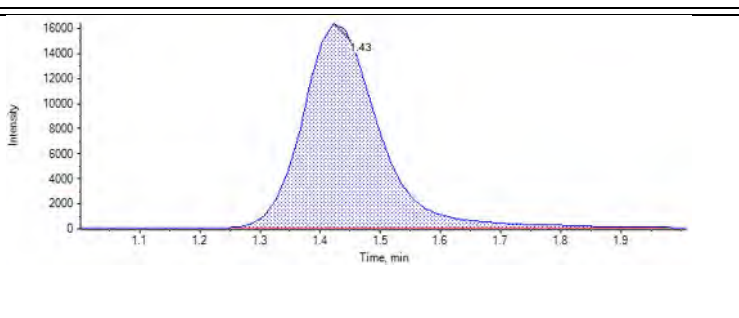
JU08
RT (Exp. RT): 1.43 (1.40) min
Calculated Conc: 454.561605 ng/L
Area: 25769.214758
Modified: (False)



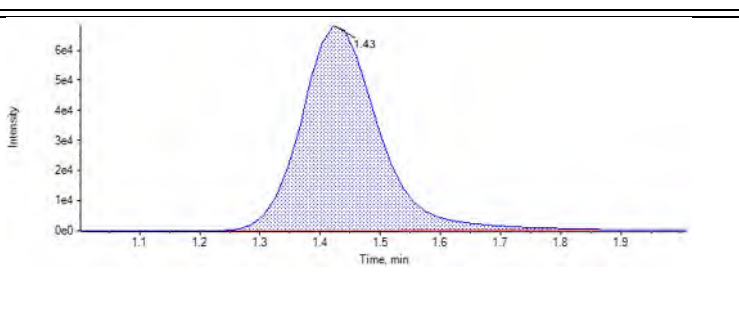
JU09
RT (Exp. RT): 1.42 (1.40) min
Calculated Conc: 911.657403 ng/L
Area: 61520.622553
Modified: (False)



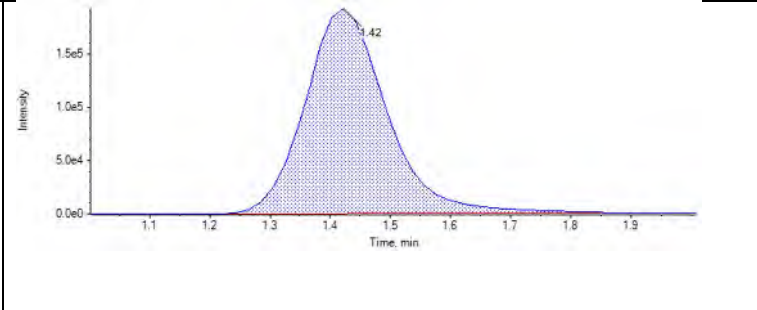
JU10
RT (Exp. RT): 1.43 (1.40) min
Calculated Conc: 2190.868679 ng/L
Area: 143721.256046
Modified: (False)



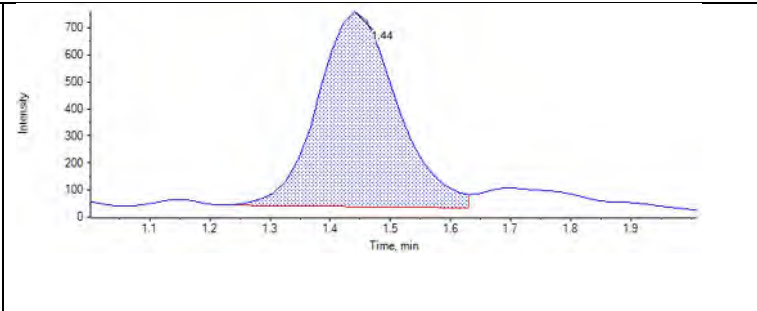
JU11
RT (Exp. RT): 1.43 (1.40) min
Calculated Conc: 10274.963832 ng/L
Area: 610663.165650
Modified: (False)



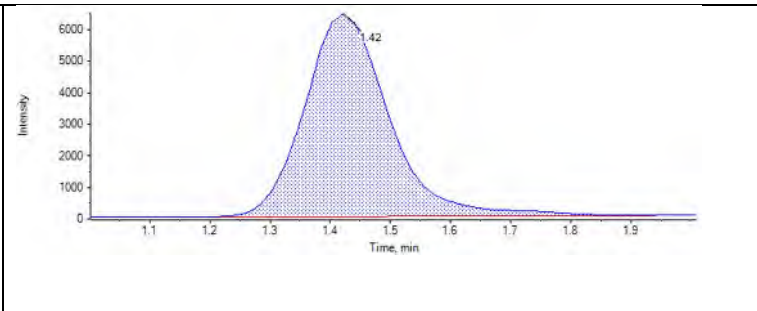
JU12
RT (Exp. RT): 1.42 (1.40) min
Calculated Conc: 20506.129879 ng/L
Area: 1801464.576125
Modified: (False)



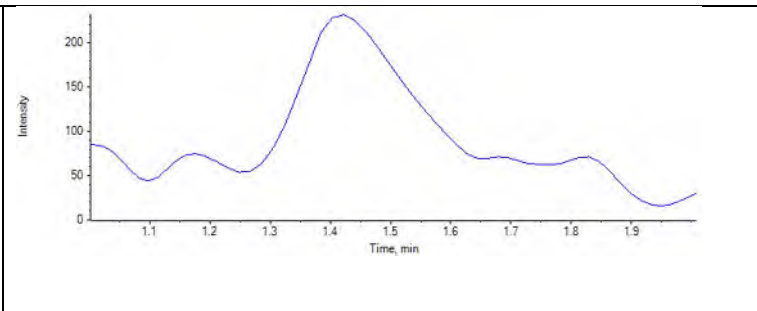
JP83 IB
RT (Exp. RT): 1.44 (1.40) min
Calculated Conc: 94.877131 ng/L
Area: 6642.477923
Modified: (False)



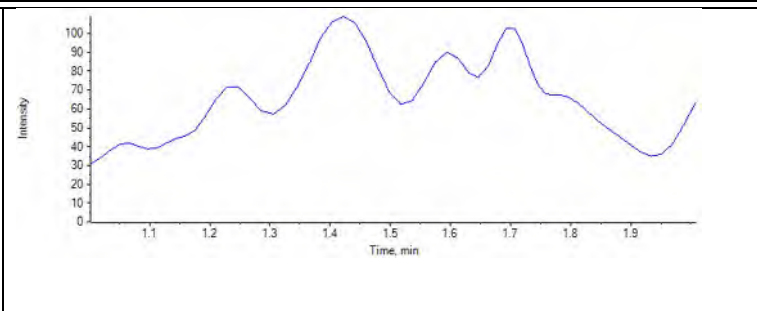
JU13 ICC
RT (Exp. RT): 1.42 (1.40) min
Calculated Conc: 966.910914 ng/L
Area: 62890.538474
Modified: (False)

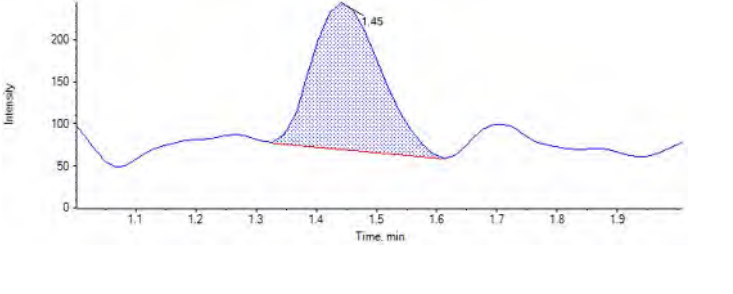
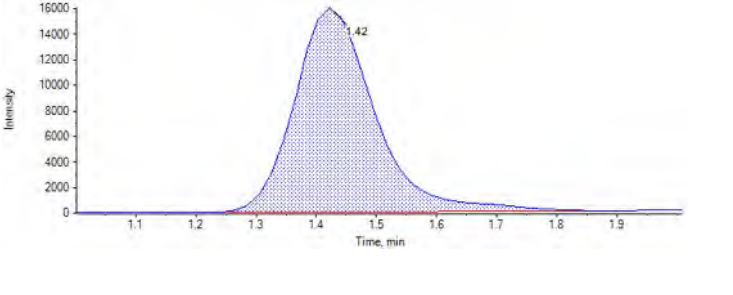
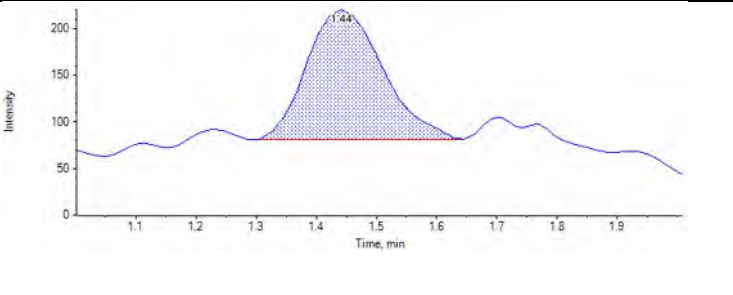
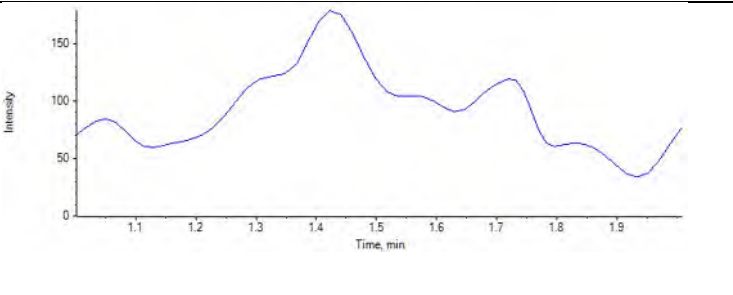
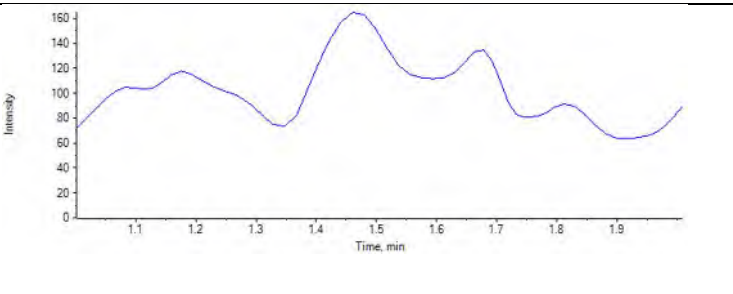


JU38 Branch
RT (Exp. RT): N/A (1.40) min
Calculated Conc: N/A ng/L
Area: N/A
Modified: (True)



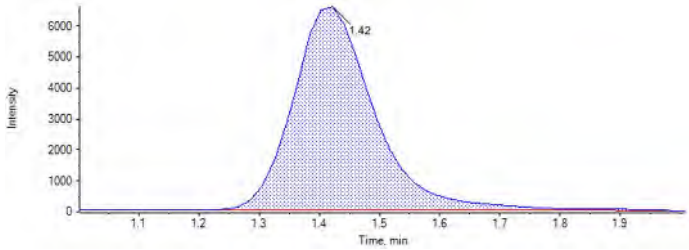
MeOH
RT (Exp. RT): N/A (1.40) min
Calculated Conc: N/A ng/L
Area: N/A
Modified: (True)



<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 1.45 (1.40) min</p> <p>Calculated Conc: 33.626595 ng/L</p> <p>Area: 1383.684300</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 2911.084354 ng/L</p> <p>Area: 148315.798925</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 24.677200 ng/L</p> <p>Area: 1223.731256</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 1.42 (1.40) min
Calculated Conc: 995.495560 ng/L
Area: 61578.780703
Modified: (False)



Analyte: PFHxA_1 (313.0 / 269.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

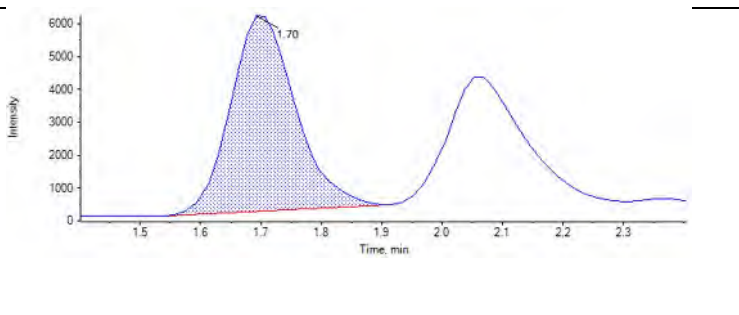
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	7895	1.71	27450	25.25000	32.108208	127
JU05	Standard	3/29/2018 7:57:30 PM	13526	1.70	26160	50.50000	56.216074	111
JU06	Standard	3/29/2018 8:08:16 PM	25113	1.70	26630	101.00000	100.928808	100
JU07	Standard	3/29/2018 8:19:03 PM	44538	1.70	21140	252.50000	223.227908	88
JU08	Standard	3/29/2018 8:29:49 PM	92249	1.71	21630	505.00000	449.860662	89
JU09	Standard	3/29/2018 8:40:36 PM	234947	1.70	27690	1010.00000	893.148377	88
JU10	Standard	3/29/2018 8:51:22 PM	537670	1.70	23960	2525.00000	2358.310431	93
JU11	Standard	3/29/2018 9:02:09 PM	2278502	1.70	23460	10100.00000	10203.682302	101
JU12	Standard	3/29/2018 9:12:55 PM	6522596	1.70	33500	20200.00000	20451.767229	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	20779	1.72	28010	N/A	79.807853	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	224549	1.70	26220	1010.00000	901.317127	89
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	23770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	3203	1.72	16390	N/A	22.424285	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	546764	1.70	24510	N/A	2344.939456	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	4030	1.72	17230	N/A	26.462506	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19720	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22230	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	212499	1.70	24340	1010.00000	918.940241	91

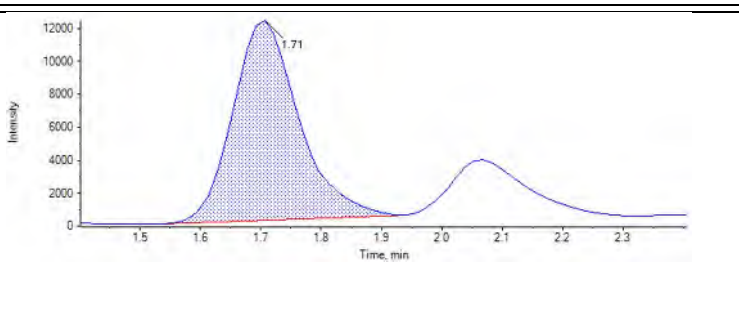
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 32.108208 ng/L</p> <p>Area: 7895.104475</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 56.216074 ng/L</p> <p>Area: 13526.462512</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 100.928808 ng/L</p> <p>Area: 25113.310103</p> <p>Modified: (True)</p>	

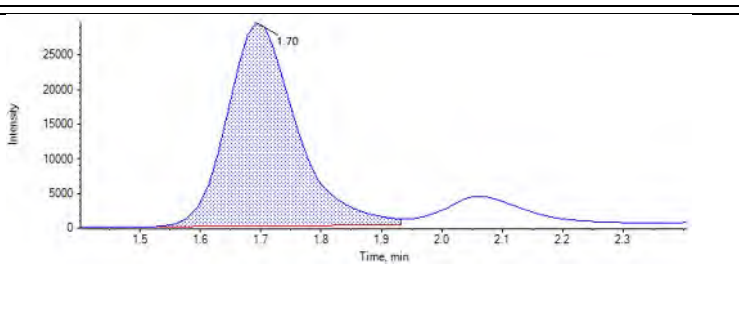
JU07
 RT (Exp. RT): 1.70 (1.60) min
 Calculated Conc: 223.227908 ng/L
 Area: 44538.437798
 Modified: (False)



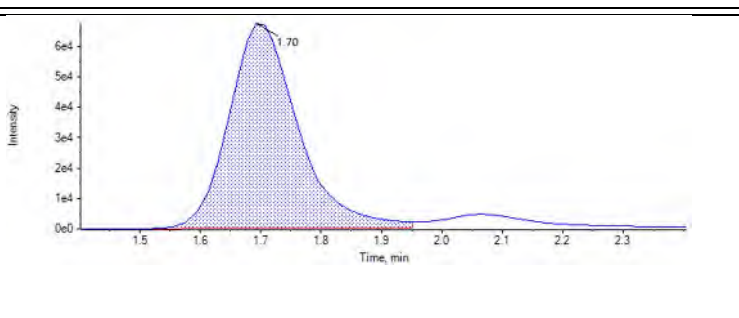
JU08
 RT (Exp. RT): 1.71 (1.60) min
 Calculated Conc: 449.860662 ng/L
 Area: 92248.718605
 Modified: (False)



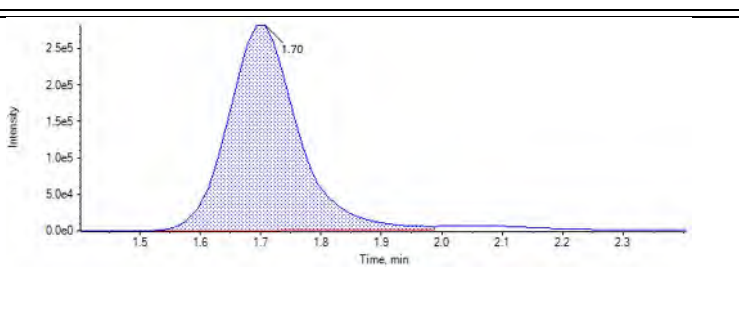
JU09
 RT (Exp. RT): 1.70 (1.60) min
 Calculated Conc: 893.148377 ng/L
 Area: 234946.795011
 Modified: (False)



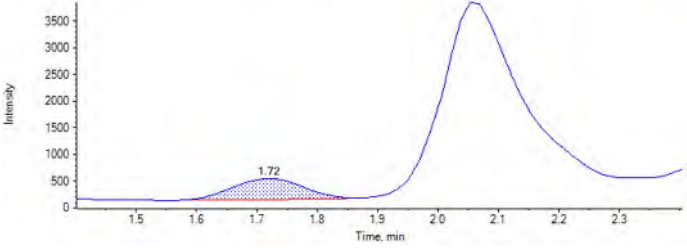
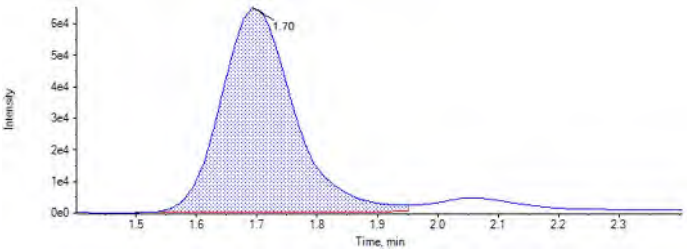
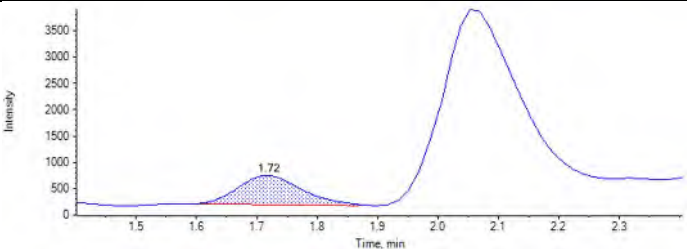
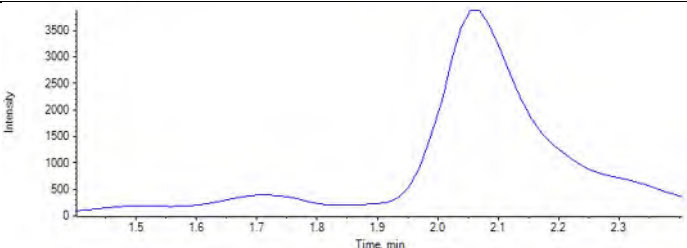
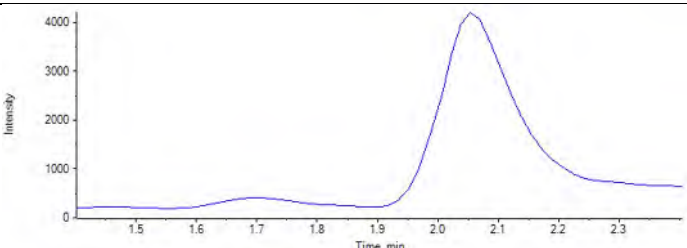
JU10
 RT (Exp. RT): 1.70 (1.60) min
 Calculated Conc: 2358.310431 ng/L
 Area: 537670.112670
 Modified: (False)



JU11
 RT (Exp. RT): 1.70 (1.60) min
 Calculated Conc: 10203.682302 ng/L
 Area: 2278501.884054
 Modified: (False)

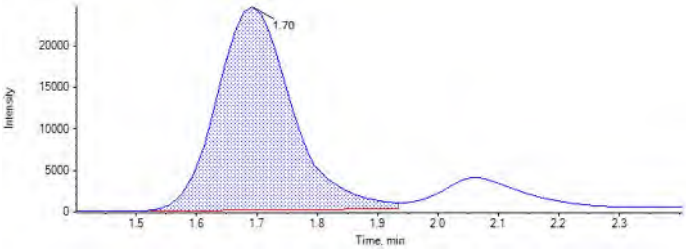


<p>JU12</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 20451.767229 ng/L</p> <p>Area: 6522596.371288</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 79.807853 ng/L</p> <p>Area: 20779.303899</p> <p>Modified: (True)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 901.317127 ng/L</p> <p>Area: 224548.876402</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 22.424285 ng/L</p> <p>Area: 3203.084781</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2344.939456 ng/L</p> <p>Area: 546764.008094</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 1.72 (1.60) min</p> <p>Calculated Conc: 26.462506 ng/L</p> <p>Area: 4030.408165</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 1.70 (1.60) min
Calculated Conc: 918.940241 ng/L
Area: 212498.598419
Modified: (False)



Analyte: PFHxA_2 (313.0 / 119.0)

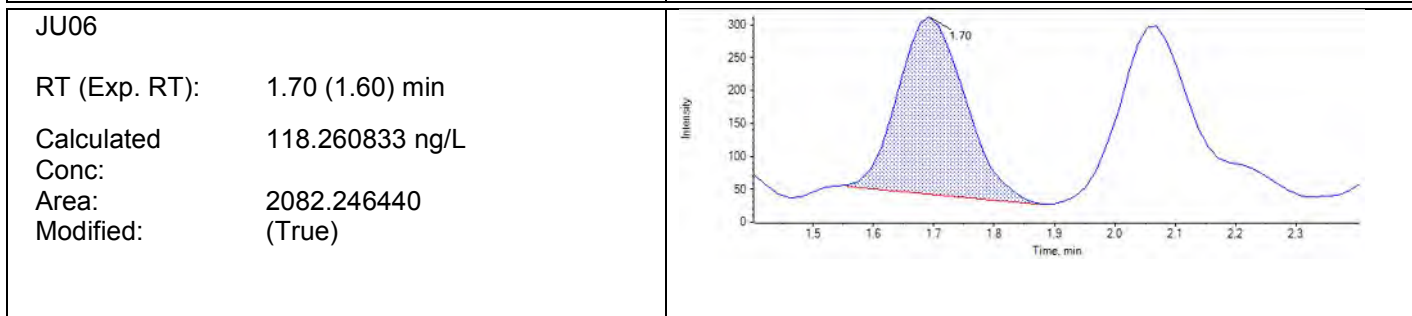
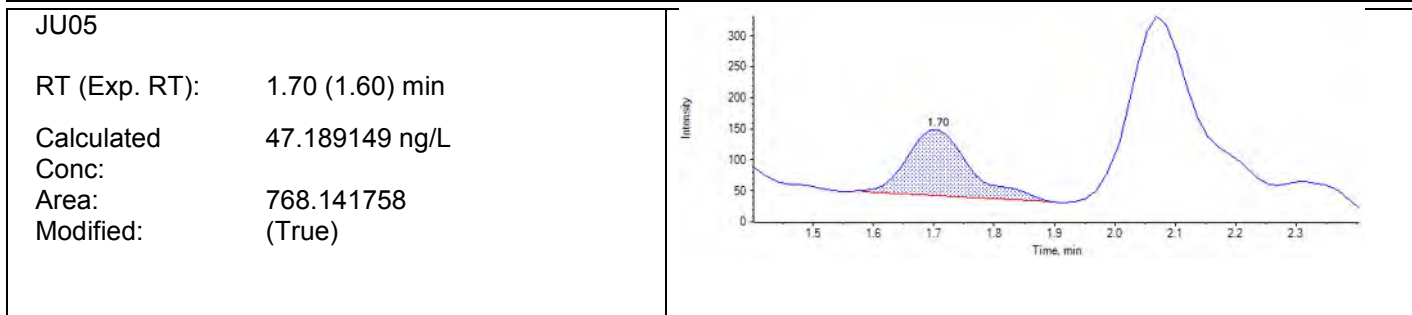
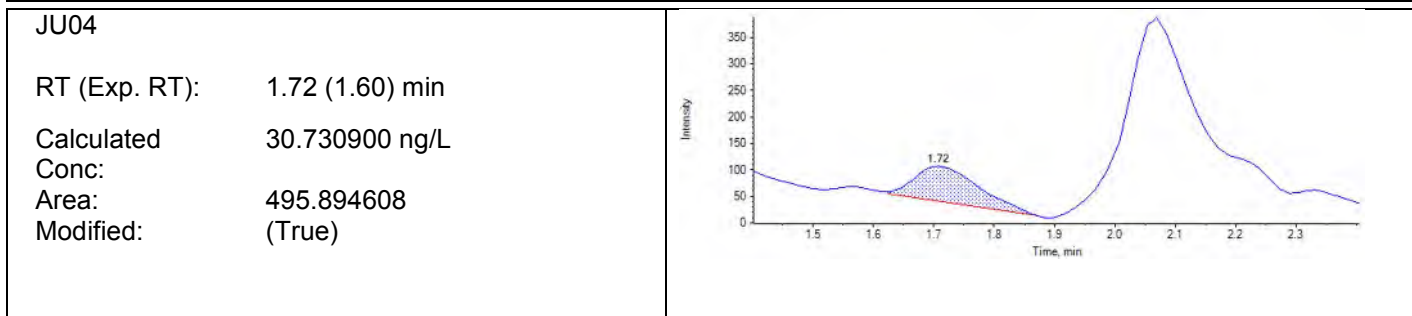
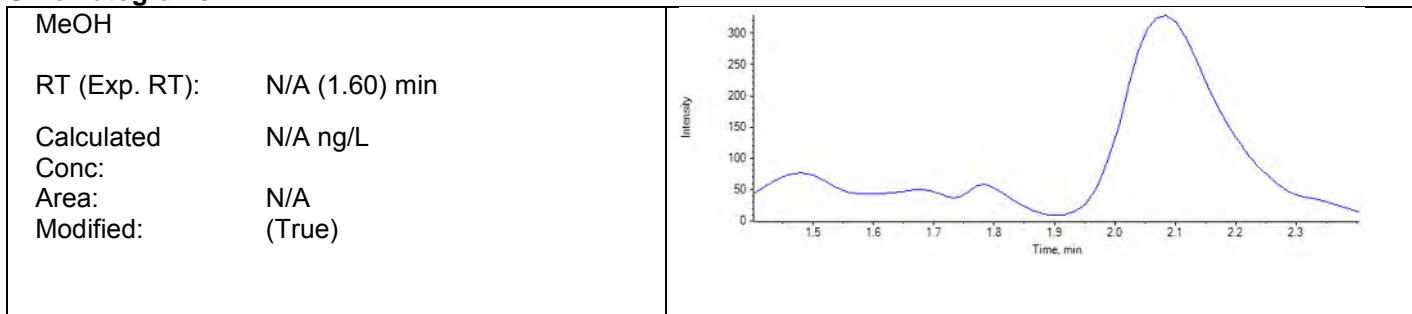
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

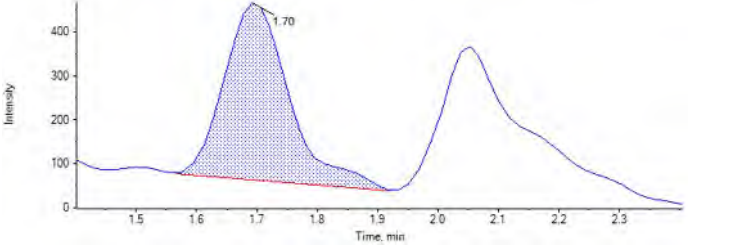
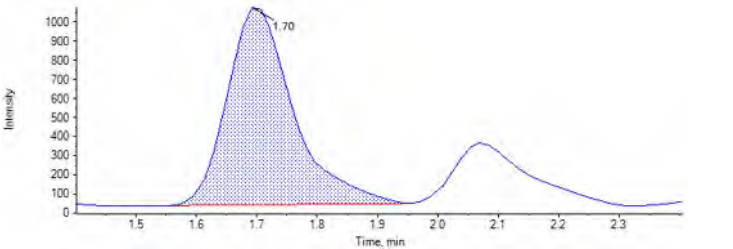
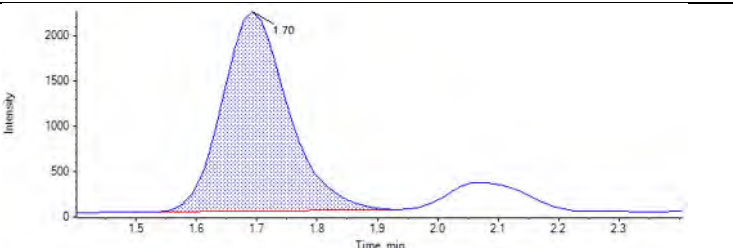
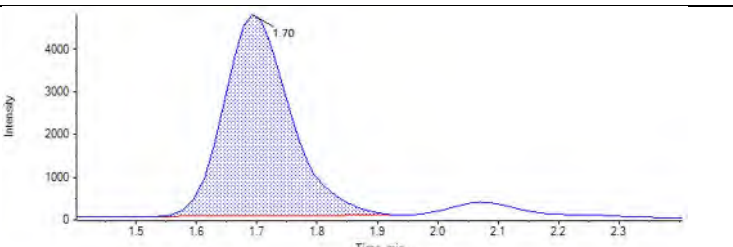
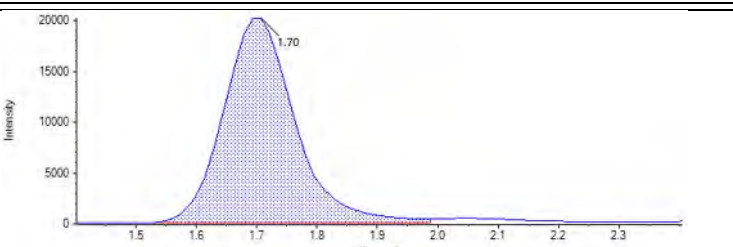
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	496	1.72	27450	25.25000	30.730900	122
JU05	Standard	3/29/2018 7:57:30 PM	768	1.70	26160	50.50000	47.189149	93
JU06	Standard	3/29/2018 8:08:16 PM	2082	1.70	26630	101.00000	118.260833	117
JU07	Standard	3/29/2018 8:19:03 PM	3011	1.70	21140	252.50000	211.893503	84
JU08	Standard	3/29/2018 8:29:49 PM	7894	1.70	21630	505.00000	535.846621	106
JU09	Standard	3/29/2018 8:40:36 PM	16707	1.70	27690	1010.00000	883.060455	87
JU10	Standard	3/29/2018 8:51:22 PM	36180	1.70	23960	2525.00000	2202.720742	87
JU11	Standard	3/29/2018 9:02:09 PM	165529	1.70	23460	10100.00000	10279.586155	102
JU12	Standard	3/29/2018 9:12:55 PM	470601	1.70	33500	20200.00000	20459.961643	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1383	1.71	28010	N/A	76.303625	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	14404	1.70	26220	1010.00000	804.298604	80
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	23770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	16390	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	39138	1.70	24510	N/A	2329.662383	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	508	1.71	17230	N/A	47.311357	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19720	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22230	N/A	N/A	N/A

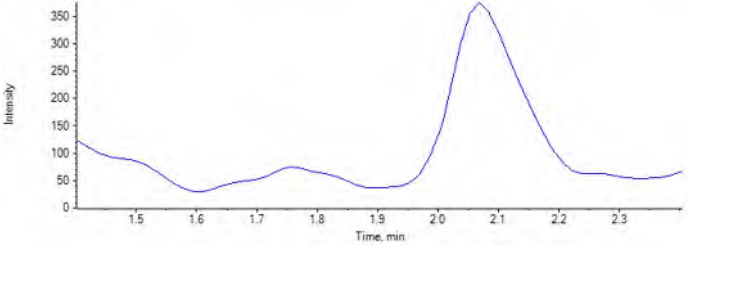
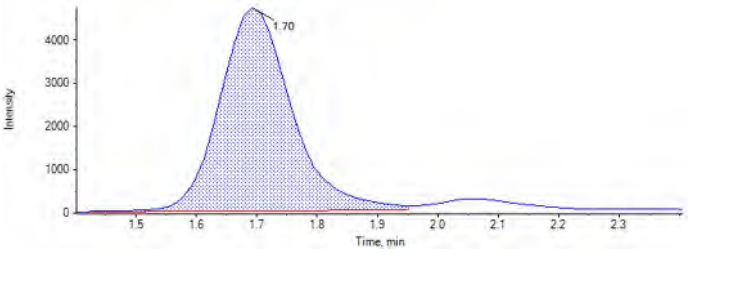
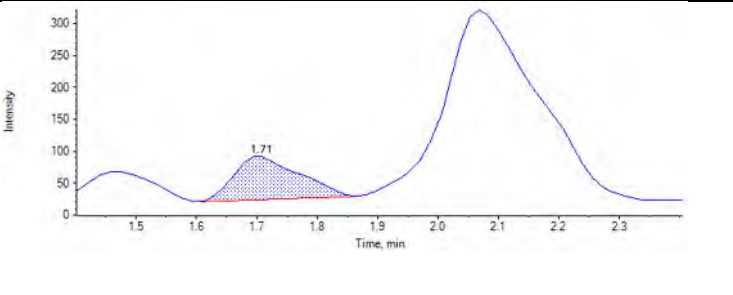
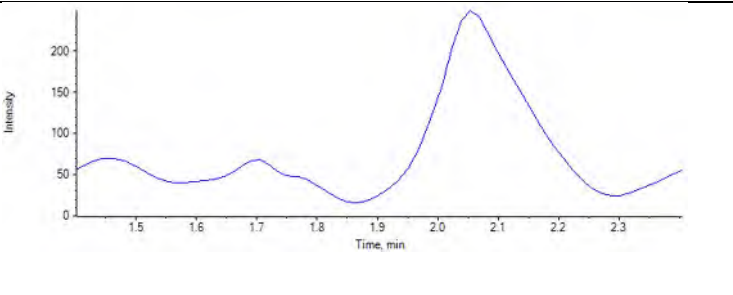
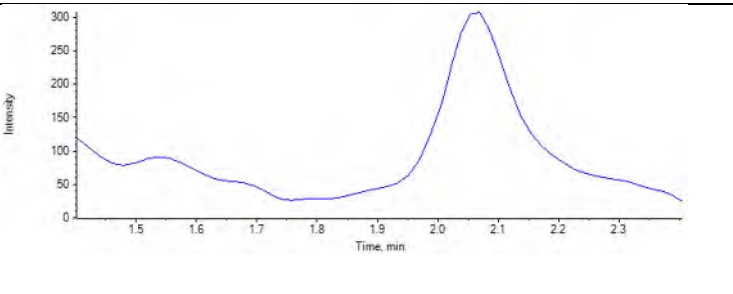
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	14059	1.69	24340	1010.00000	845.603299	84

Chromatograms:



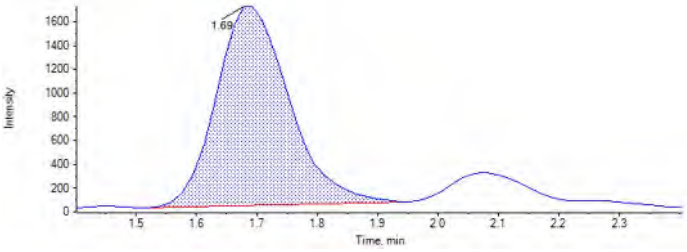
<p>JU07</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 211.893503 ng/L</p> <p>Area: 3011.352990</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 535.846621 ng/L</p> <p>Area: 7893.527651</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 883.060455 ng/L</p> <p>Area: 16706.709203</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2202.720742 ng/L</p> <p>Area: 36179.503328</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 10279.586155 ng/L</p> <p>Area: 165528.803603</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 20459.961643 ng/L</p> <p>Area: 470600.615445</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 76.303625 ng/L</p> <p>Area: 1382.796903</p> <p>Modified: (True)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 804.298604 ng/L</p> <p>Area: 14403.977841</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 2329.662383 ng/L</p> <p>Area: 39138.047023</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 47.311357 ng/L</p> <p>Area: 507.587224</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 1.69 (1.60) min
Calculated Conc: 845.603299 ng/L
Area: 14059.410457
Modified: (False)



Analyte: PFHpA_1 (363.0 / 319.0)

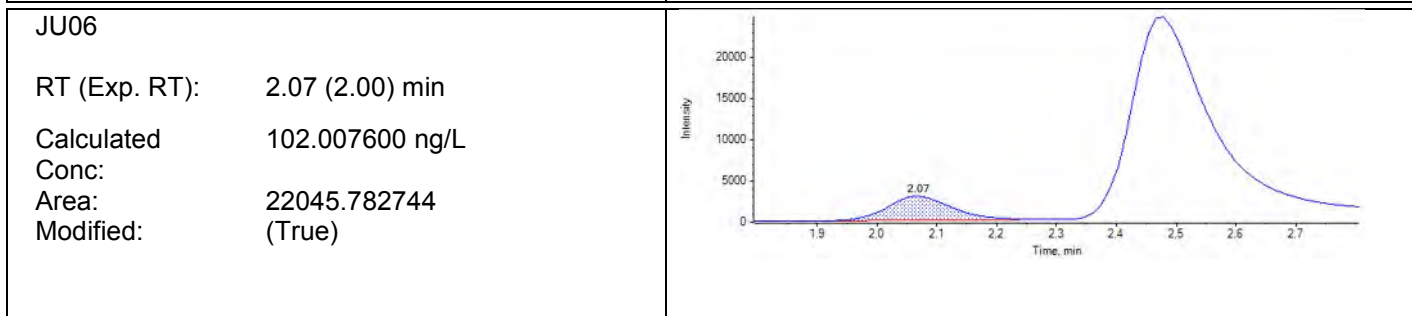
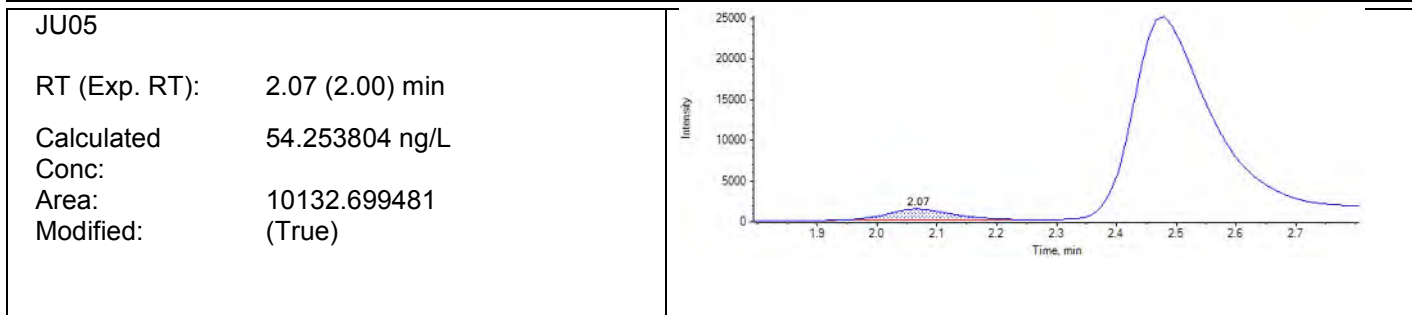
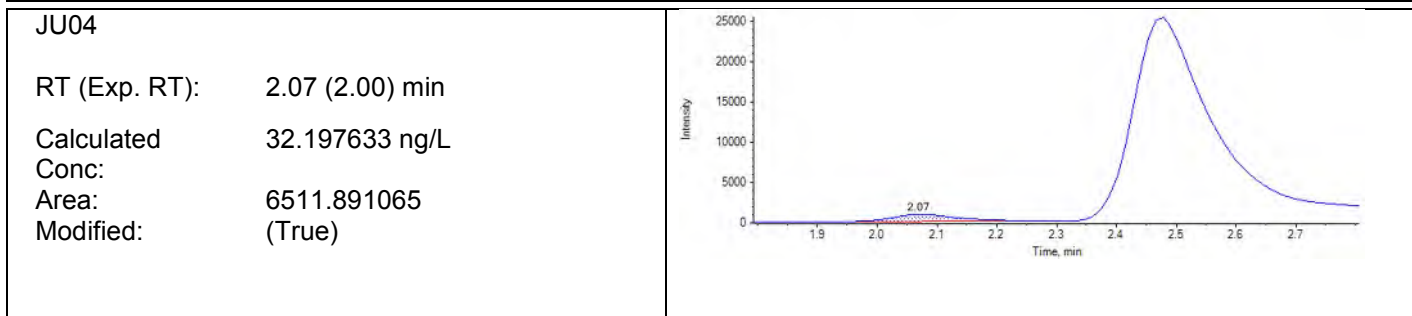
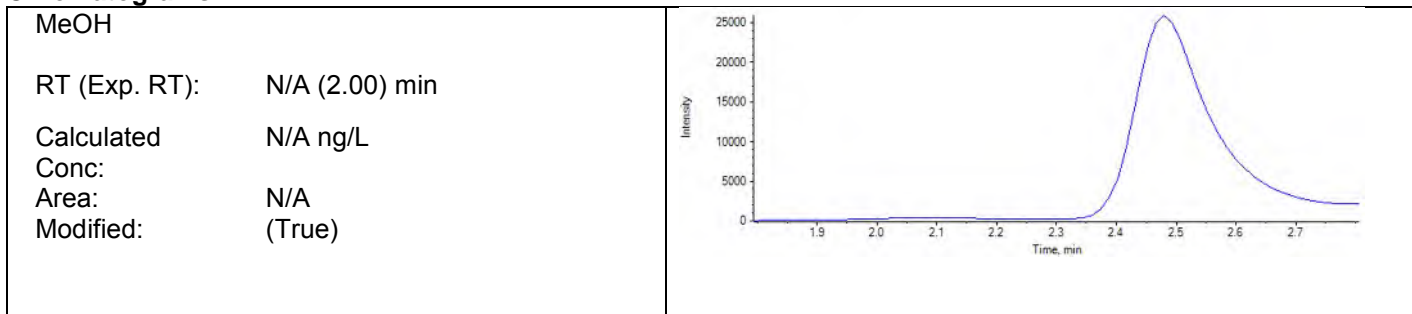
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

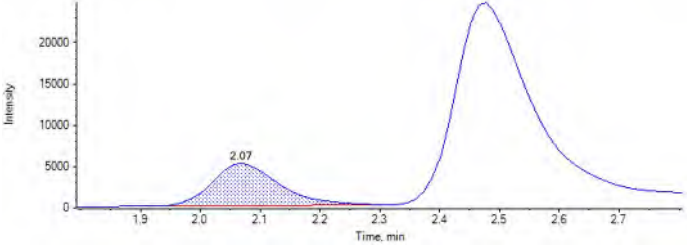
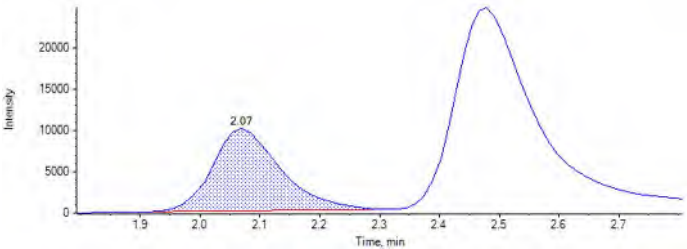
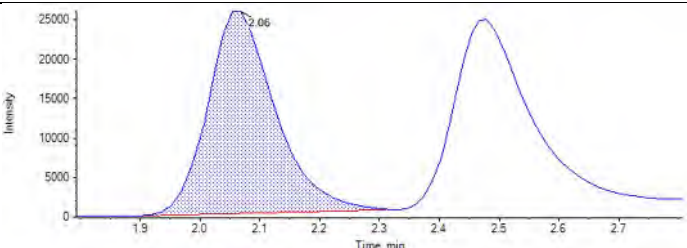
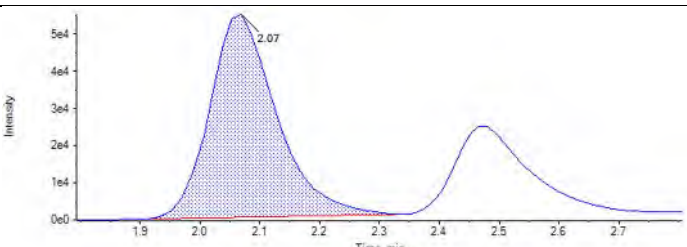
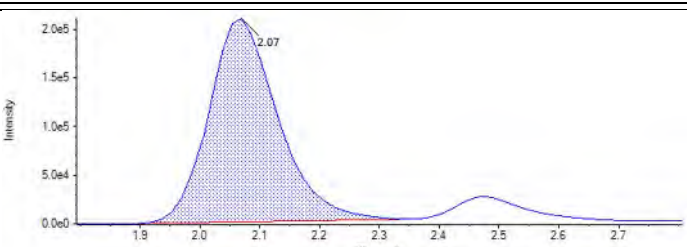
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	6512	2.07	34260	25.00000	32.197633	129
JU05	Standard	3/29/2018 7:57:30 PM	10133	2.07	29930	50.00000	54.253804	109
JU06	Standard	3/29/2018 8:08:16 PM	22046	2.07	33410	100.00000	102.007600	102
JU07	Standard	3/29/2018 8:19:03 PM	40054	2.07	27420	250.00000	220.992703	88
JU08	Standard	3/29/2018 8:29:49 PM	78974	2.07	28990	500.00000	408.761957	82
JU09	Standard	3/29/2018 8:40:36 PM	201201	2.06	30930	1000.00000	970.744144	97
JU10	Standard	3/29/2018 8:51:22 PM	424461	2.07	27530	2500.00000	2295.050119	92
JU11	Standard	3/29/2018 9:02:09 PM	1675847	2.07	24930	10000.00000	9992.681399	100
JU12	Standard	3/29/2018 9:12:55 PM	4671074	2.07	34120	20000.00000	20348.310641	102
JP83 IB	Unknown	3/29/2018 9:23:42 PM	19285	2.07	33660	N/A	89.079677	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	182897	2.06	31220	1000.00000	874.432498	87
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	30930	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	18340	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	389608	2.07	28610	N/A	2027.533978	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	21790	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	22760	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	27670	N/A	N/A	N/A

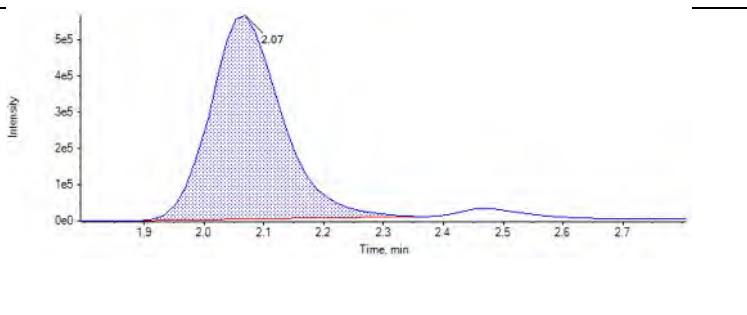
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	190766	2.06	30270	1000.00000	940.493946	94

Chromatograms:

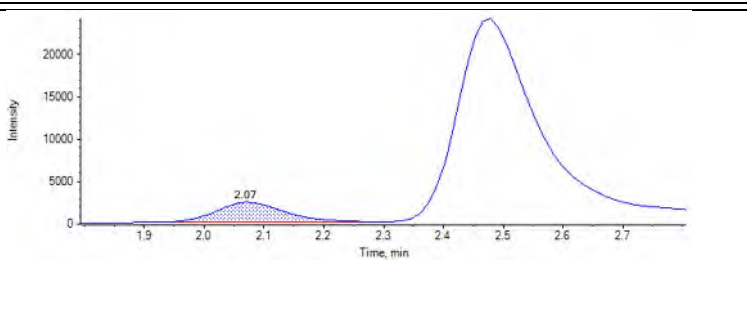


<p>JU07</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 220.992703 ng/L</p> <p>Area: 40053.842186</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 408.761957 ng/L</p> <p>Area: 78974.037948</p> <p>Modified: (True)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 970.744144 ng/L</p> <p>Area: 201201.285995</p> <p>Modified: (True)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 2295.050119 ng/L</p> <p>Area: 424461.277407</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 9992.681399 ng/L</p> <p>Area: 1675846.555459</p> <p>Modified: (False)</p>	

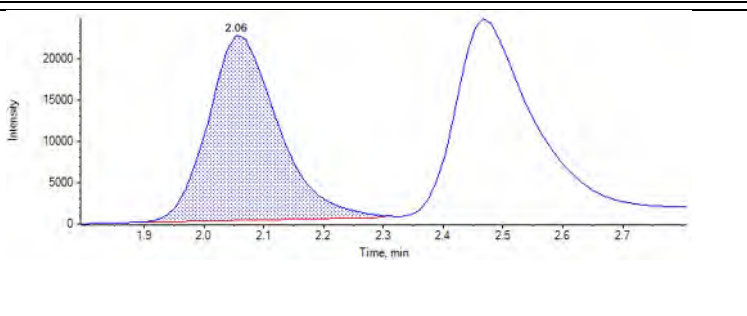
JU12	
RT (Exp. RT):	2.07 (2.00) min
Calculated Conc:	20348.310641 ng/L
Area:	4671074.038983
Modified:	(False)



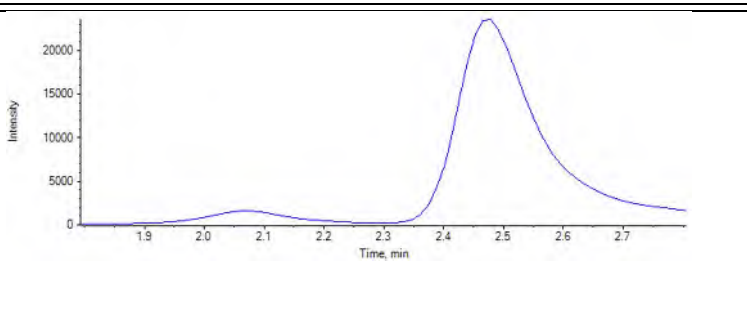
JP83 IB	
RT (Exp. RT):	2.07 (2.00) min
Calculated Conc:	89.079677 ng/L
Area:	19285.308321
Modified:	(True)



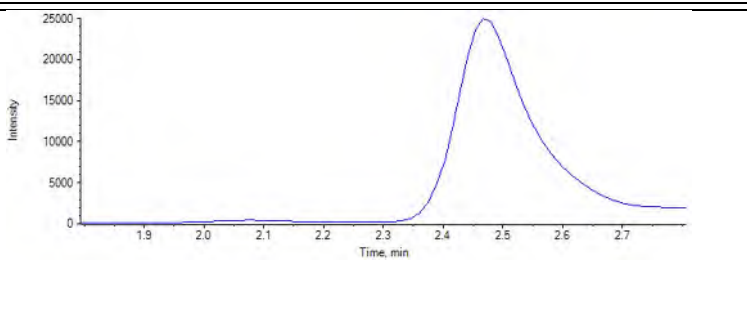
JU13 ICC	
RT (Exp. RT):	2.06 (2.00) min
Calculated Conc:	874.432498 ng/L
Area:	182896.891861
Modified:	(True)

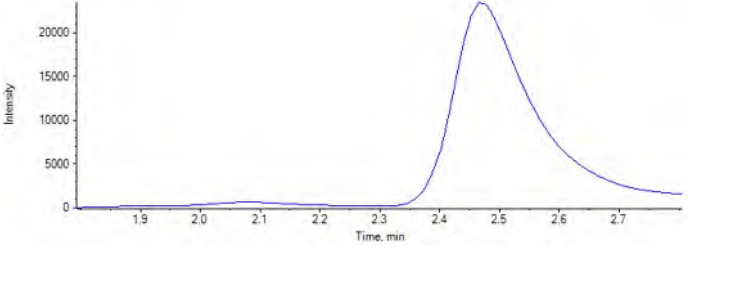
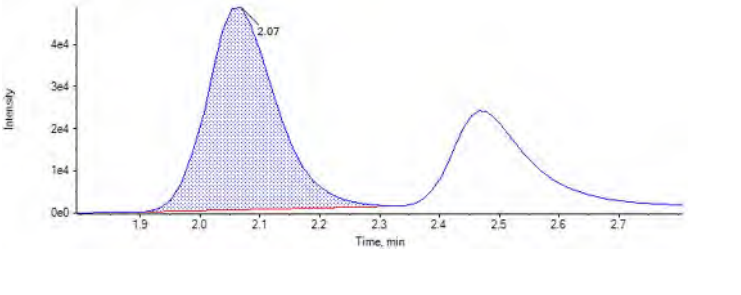
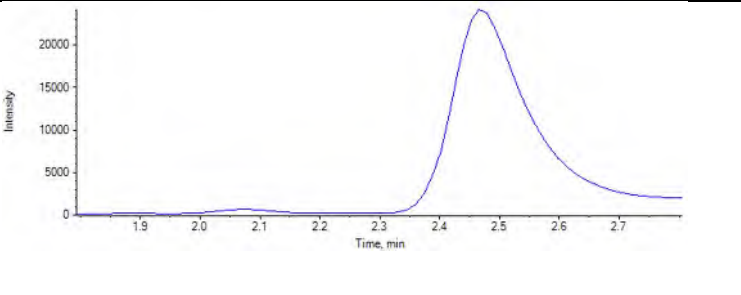
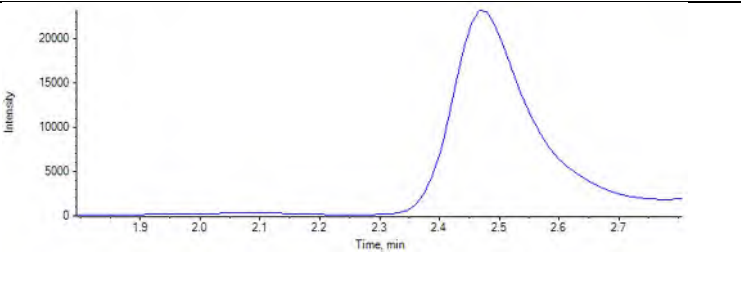
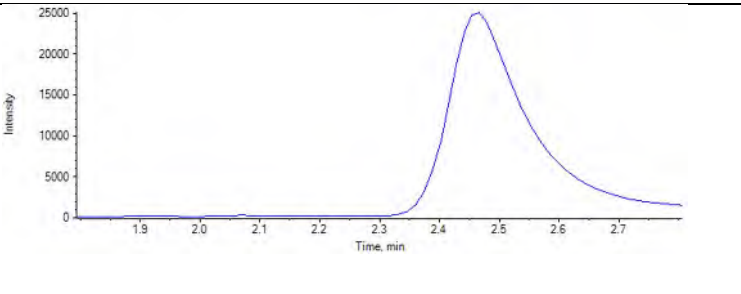


JU38 Branch	
RT (Exp. RT):	N/A (2.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



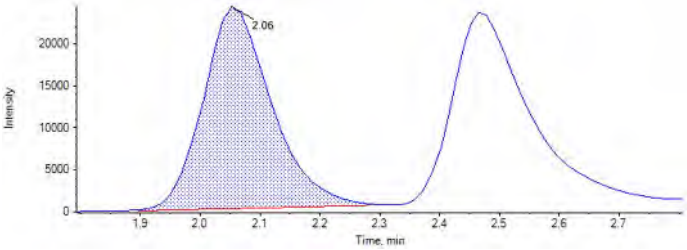
MeOH	
RT (Exp. RT):	N/A (2.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 2027.533978 ng/L</p> <p>Area: 389607.777027</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 2.06 (2.00) min
Calculated Conc: 940.493946 ng/L
Area: 190765.771741
Modified: (True)



Analyte: PFHpA_2 (363.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

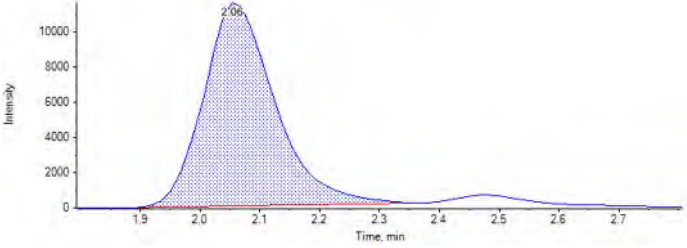
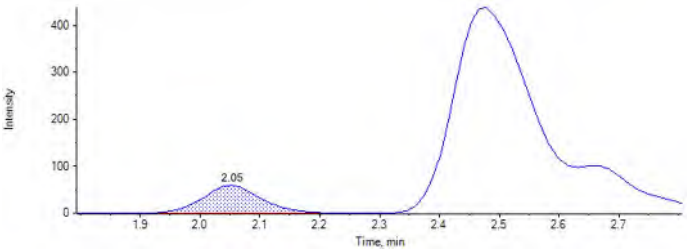
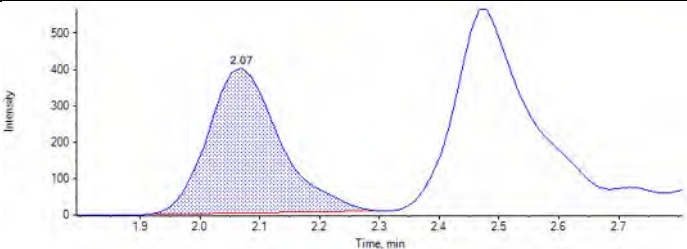
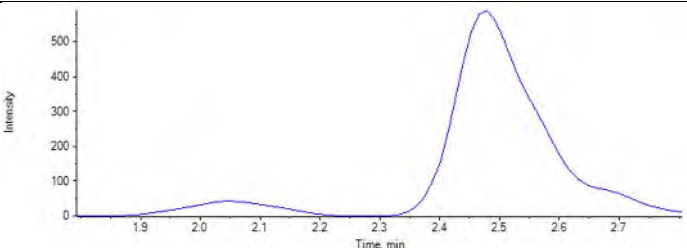
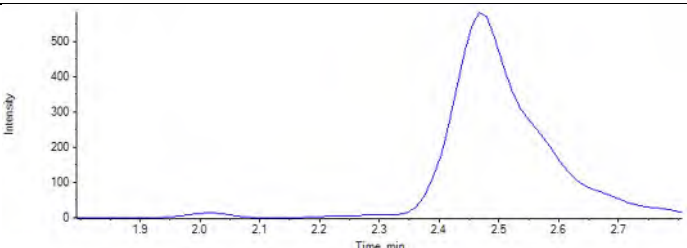
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	280	2.08	34260	25.00000	105.182479	421
JU05	Standard	3/29/2018 7:57:30 PM	184	2.09	29930	50.00000	91.139553	182
JU06	Standard	3/29/2018 8:08:16 PM	348	2.07	33410	100.00000	120.742095	121
JU07	Standard	3/29/2018 8:19:03 PM	693	2.06	27420	250.00000	223.686864	89
JU08	Standard	3/29/2018 8:29:49 PM	1711	2.08	28990	500.00000	457.567789	92
JU09	Standard	3/29/2018 8:40:36 PM	3940	2.07	30930	1000.00000	931.504230	93
JU10	Standard	3/29/2018 8:51:22 PM	9957	2.06	27530	2500.00000	2555.199660	102
JU11	Standard	3/29/2018 9:02:09 PM	37674	2.07	24930	10000.00000	10520.939088	105
JU12	Standard	3/29/2018 9:12:55 PM	95960	2.06	34120	20000.00000	19540.360274	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	391	2.05	33660	N/A	129.044627	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	3336	2.07	31220	1000.00000	788.959138	79
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	30930	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	18340	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	7786	2.06	28610	N/A	1934.579838	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	21790	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	22760	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	27670	N/A	N/A	N/A

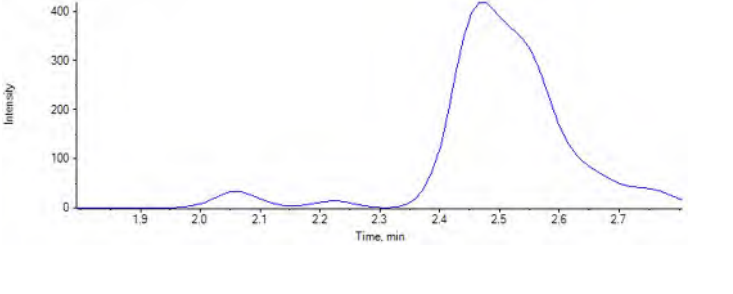
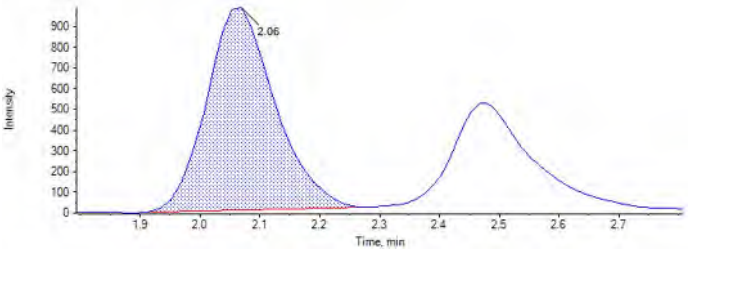
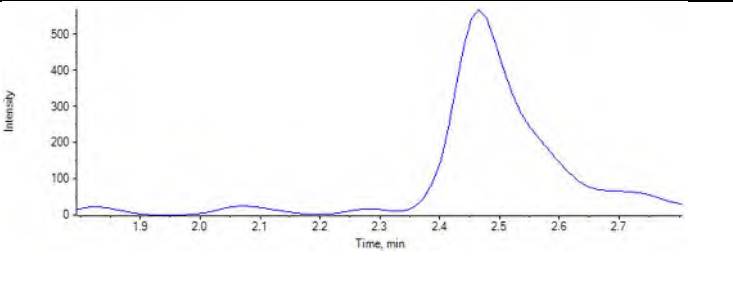
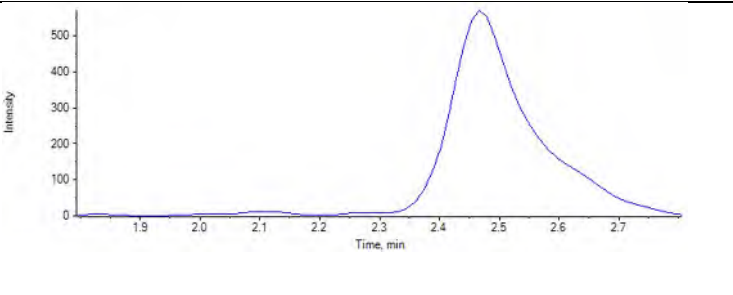
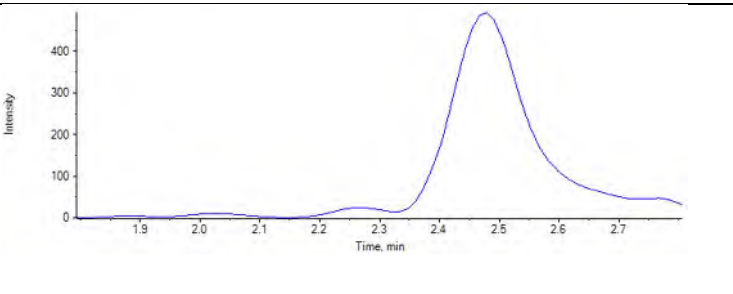
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	4899	2.05	30270	1000.00000	1170.337127	117

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 105.182479 ng/L</p> <p>Area: 279.763256</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 91.139553 ng/L</p> <p>Area: 183.794919</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 120.742095 ng/L</p> <p>Area: 347.846849</p> <p>Modified: (True)</p>	

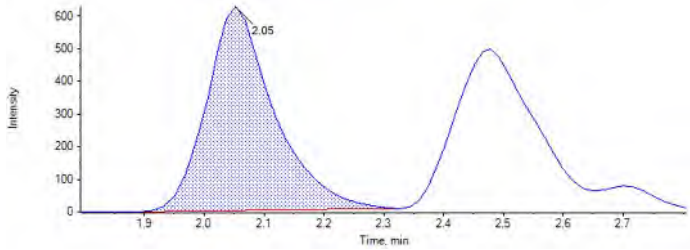
<p>JU07</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 223.686864 ng/L</p> <p>Area: 692.877475</p> <p>Modified: (True)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 457.567789 ng/L</p> <p>Area: 1710.816829</p> <p>Modified: (True)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 931.504230 ng/L</p> <p>Area: 3939.901673</p> <p>Modified: (True)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 2555.199660 ng/L</p> <p>Area: 9957.479110</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 10520.939088 ng/L</p> <p>Area: 37673.511205</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 19540.360274 ng/L</p> <p>Area: 95960.382756</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.05 (2.00) min</p> <p>Calculated Conc: 129.044627 ng/L</p> <p>Area: 390.831211</p> <p>Modified: (True)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 788.959138 ng/L</p> <p>Area: 3335.532144</p> <p>Modified: (True)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.06 (2.00) min</p> <p>Calculated Conc: 1934.579838 ng/L</p> <p>Area: 7786.004798</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 2.05 (2.00) min
Calculated Conc: 1170.337127 ng/L
Area: 4899.333006
Modified: (False)



Analyte: PFHxS_1 (399.0 / 80.0)

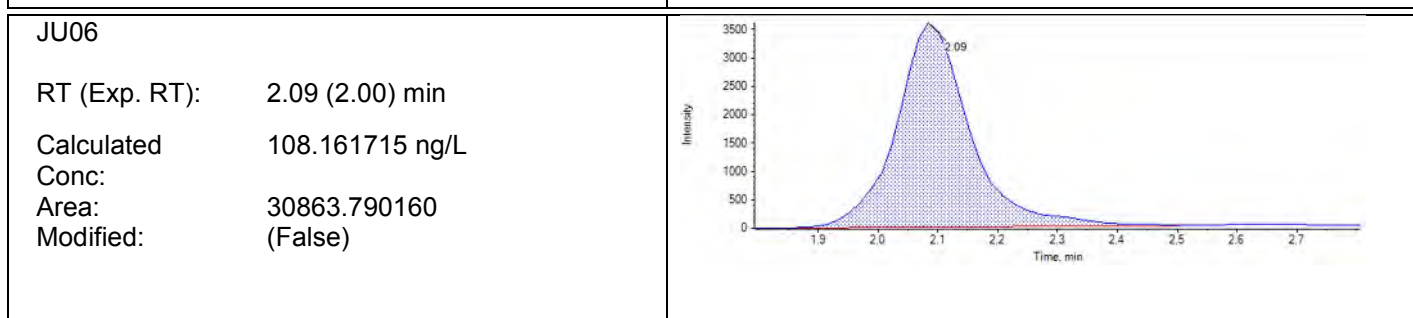
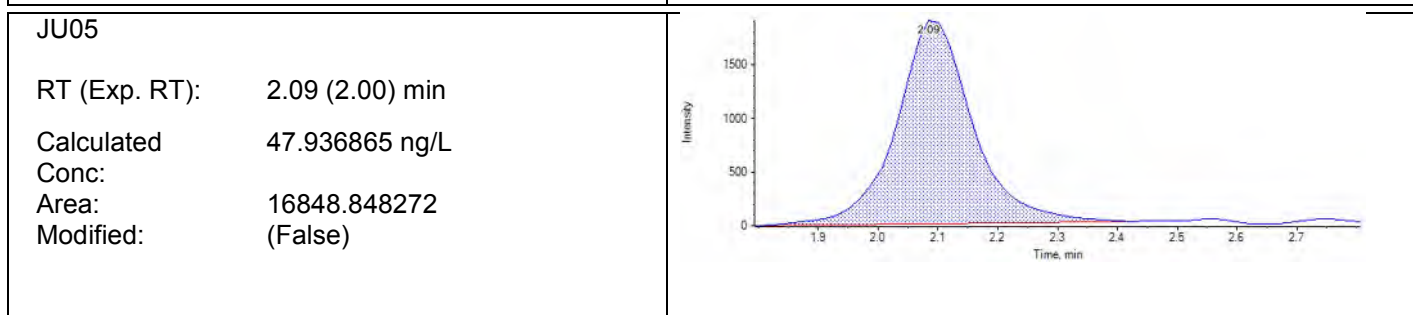
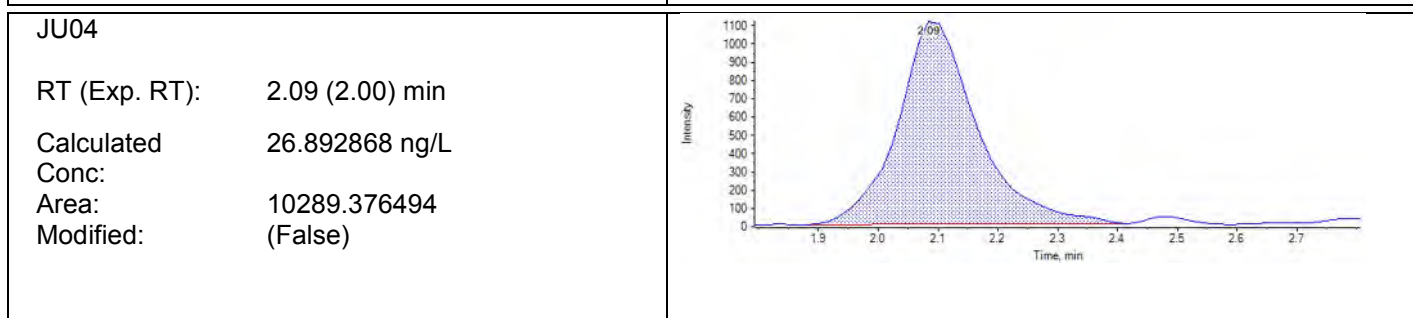
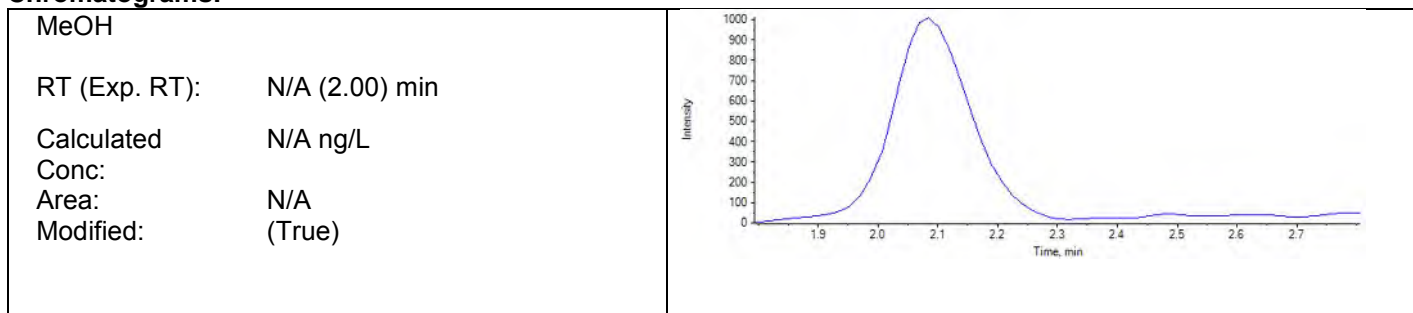
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

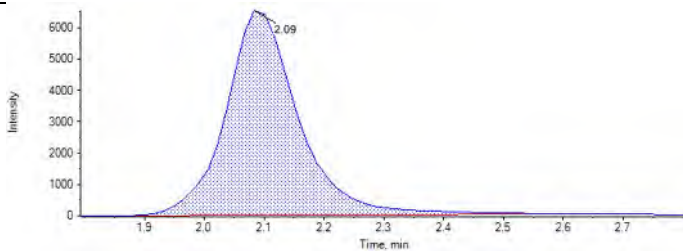
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	10289	2.09	8341	25.25000	26.892868	107
JU05	Standard	3/29/2018 7:57:30 PM	16849	2.09	8473	50.50000	47.936865	95
JU06	Standard	3/29/2018 8:08:16 PM	30864	2.09	7439	101.00000	108.161715	107
JU07	Standard	3/29/2018 8:19:03 PM	55147	2.09	5304	252.50000	282.324036	112
JU08	Standard	3/29/2018 8:29:49 PM	103545	2.09	6335	505.00000	448.094441	89
JU09	Standard	3/29/2018 8:40:36 PM	253074	2.09	7359	1010.00000	951.068384	94
JU10	Standard	3/29/2018 8:51:22 PM	556477	2.09	6704	2525.00000	2306.288510	91
JU11	Standard	3/29/2018 9:02:09 PM	2082967	2.09	5324	10100.00000	10898.757134	108
JU12	Standard	3/29/2018 9:12:55 PM	5587757	2.08	7904	20200.00000	19699.726048	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	27242	2.09	7891	N/A	88.745330	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	262665	2.08	7291	1010.00000	996.689472	99
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	1004751	2.08	7052	N/A	3964.190498	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	7505	2.09	3479	N/A	52.633963	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	538633	2.08	6813	N/A	2196.291678	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3490	2.10	4848	N/A	12.569214	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	1846	2.09	4292	N/A	4.496053	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	949	2.08	6607	N/A	< 0	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	250240	2.08	8306	1010.00000	832.278274	82

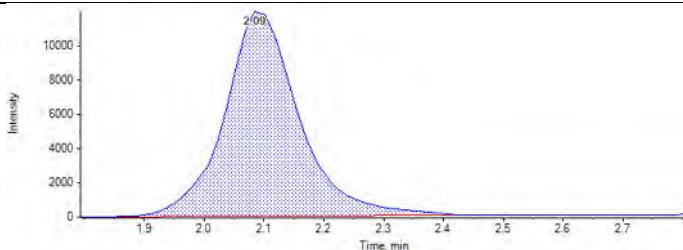
Chromatograms:



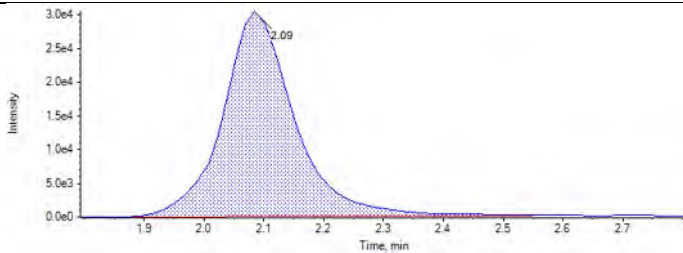
JU07
RT (Exp. RT): 2.09 (2.00) min
Calculated Conc: 282.324036 ng/L
Area: 55147.359396
Modified: (False)



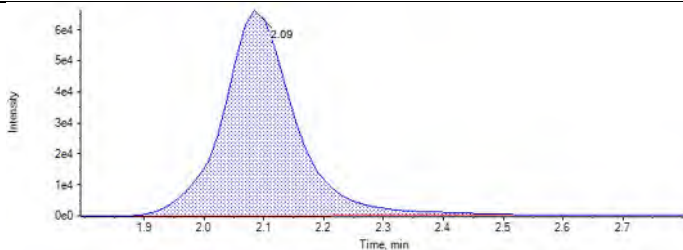
JU08
RT (Exp. RT): 2.09 (2.00) min
Calculated Conc: 448.094441 ng/L
Area: 103544.611714
Modified: (False)



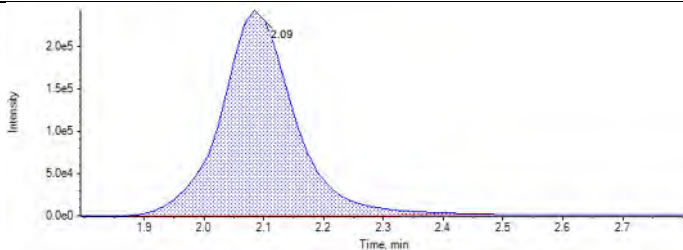
JU09
RT (Exp. RT): 2.09 (2.00) min
Calculated Conc: 951.068384 ng/L
Area: 253074.409737
Modified: (False)

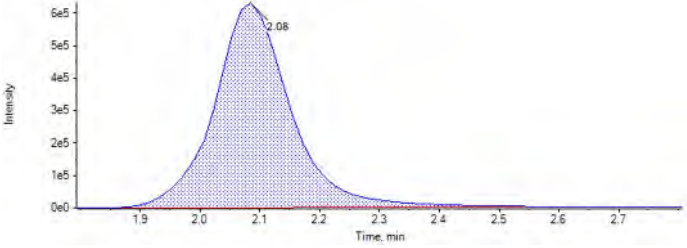
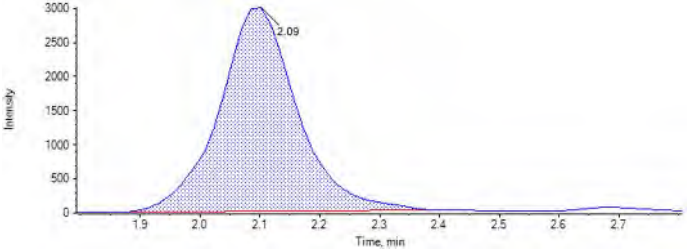
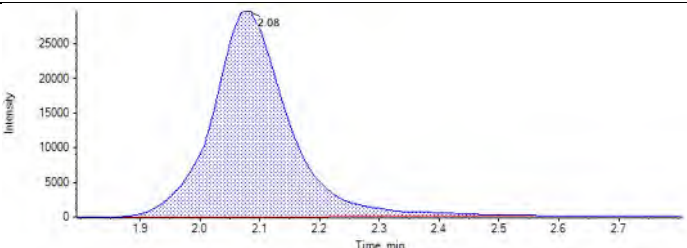
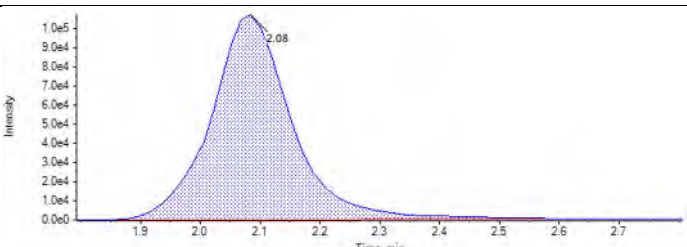
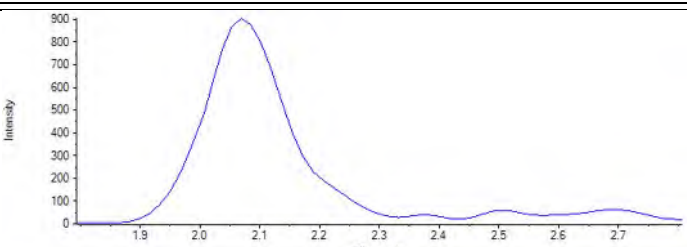


JU10
RT (Exp. RT): 2.09 (2.00) min
Calculated Conc: 2306.288510 ng/L
Area: 556477.214805
Modified: (False)



JU11
RT (Exp. RT): 2.09 (2.00) min
Calculated Conc: 10898.757134 ng/L
Area: 2082967.122865
Modified: (False)

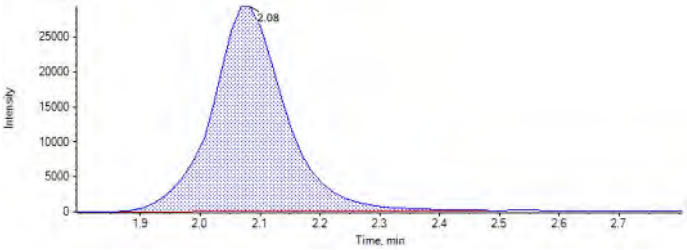


<p>JU12</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 19699.726048 ng/L</p> <p>Area: 5587757.136549</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 88.745330 ng/L</p> <p>Area: 27242.215046</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 996.689472 ng/L</p> <p>Area: 262665.193010</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 3964.190498 ng/L</p> <p>Area: 1004750.890623</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 52.633963 ng/L</p> <p>Area: 7504.579298</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 2196.291678 ng/L</p> <p>Area: 538633.410235</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.10 (2.00) min</p> <p>Calculated Conc: 12.569214 ng/L</p> <p>Area: 3489.555150</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 4.496053 ng/L</p> <p>Area: 1846.022437</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: < 0 ng/L</p> <p>Area: 949.075154</p> <p>Modified: (False)</p>	

JU09 CCV

RT (Exp. RT): 2.08 (2.00) min
Calculated Conc: 832.278274 ng/L
Area: 250240.004363
Modified: (False)



Analyte: PFHxS_2 (399.0 / 99.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

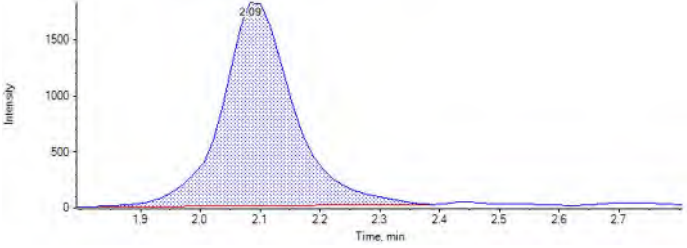
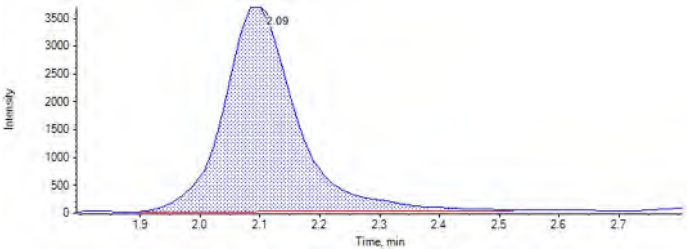
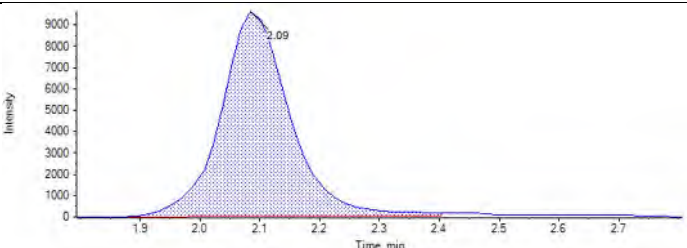
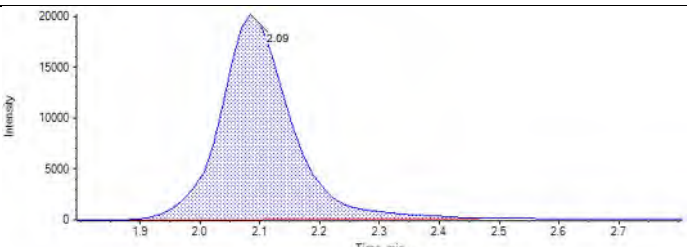
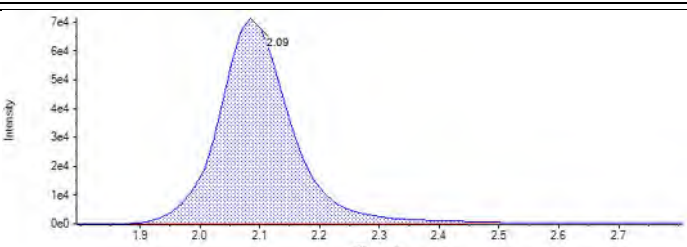
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2431	2.09	8341	25.25000	22.397565	89
JU05	Standard	3/29/2018 7:57:30 PM	5645	2.09	8473	50.50000	58.270442	115
JU06	Standard	3/29/2018 8:08:16 PM	8343	2.08	7439	101.00000	101.841220	101
JU07	Standard	3/29/2018 8:19:03 PM	15216	2.09	5304	252.50000	269.047901	107
JU08	Standard	3/29/2018 8:29:49 PM	31216	2.09	6335	505.00000	466.069235	92
JU09	Standard	3/29/2018 8:40:36 PM	76869	2.09	7359	1010.00000	994.137369	98
JU10	Standard	3/29/2018 8:51:22 PM	165392	2.09	6704	2525.00000	2355.552213	93
JU11	Standard	3/29/2018 9:02:09 PM	601632	2.09	5324	10100.00000	10809.826960	107
JU12	Standard	3/29/2018 9:12:55 PM	1626709	2.08	7904	20200.00000	19692.107095	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	7644	2.10	7891	N/A	87.226019	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	75671	2.08	7291	1010.00000	987.748438	98
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	304155	2.08	7052	N/A	4122.390745	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	2304	2.09	3479	N/A	57.885095	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	154945	2.08	6813	N/A	2171.066329	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1453	2.09	4848	N/A	23.194400	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	4292	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	6607	N/A	N/A	N/A

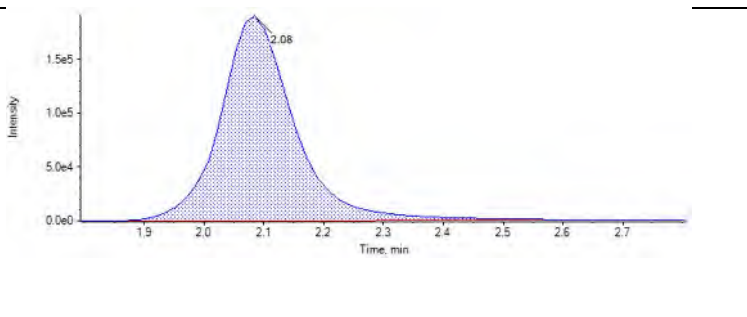
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	73068	2.08	8306	1010.00000	836.382302	83

Chromatograms:

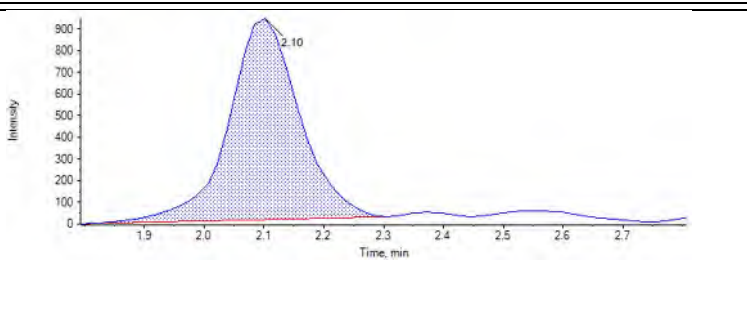
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 22.397565 ng/L</p> <p>Area: 2430.759420</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 58.270442 ng/L</p> <p>Area: 5645.178217</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 101.841220 ng/L</p> <p>Area: 8342.687371</p> <p>Modified: (False)</p>	

<p>JU07</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 269.047901 ng/L</p> <p>Area: 15215.674396</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 466.069235 ng/L</p> <p>Area: 31216.089164</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 994.137369 ng/L</p> <p>Area: 76869.096636</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 2355.552213 ng/L</p> <p>Area: 165391.636111</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 10809.826960 ng/L</p> <p>Area: 601631.582553</p> <p>Modified: (False)</p>	

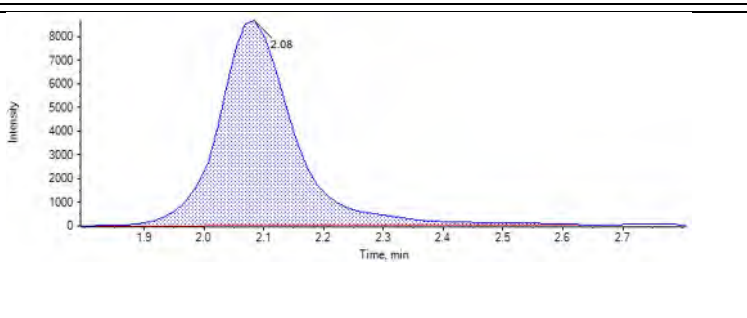
JU12	
RT (Exp. RT):	2.08 (2.00) min
Calculated Conc:	19692.107095 ng/L
Area:	1626708.734765
Modified:	(False)



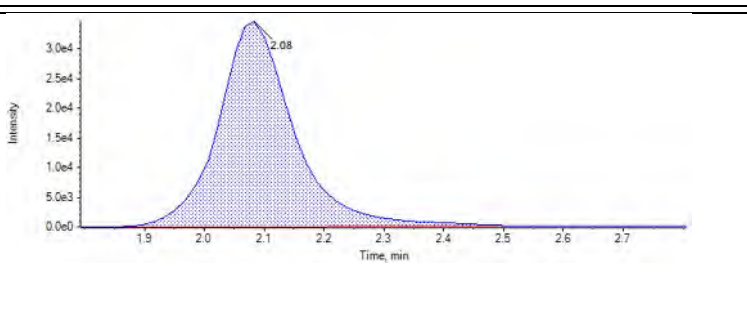
JP83 IB	
RT (Exp. RT):	2.10 (2.00) min
Calculated Conc:	87.226019 ng/L
Area:	7644.420293
Modified:	(False)



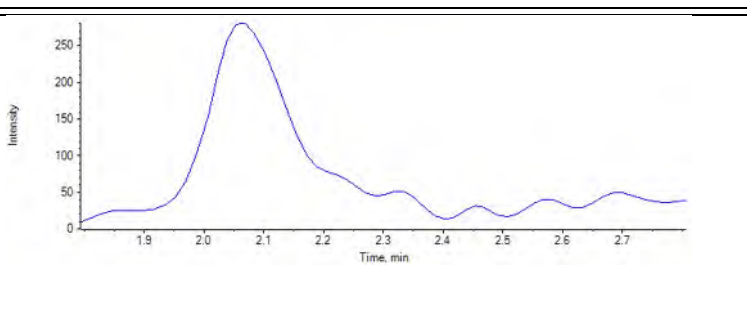
JU13 ICC	
RT (Exp. RT):	2.08 (2.00) min
Calculated Conc:	987.748438 ng/L
Area:	75670.875762
Modified:	(False)



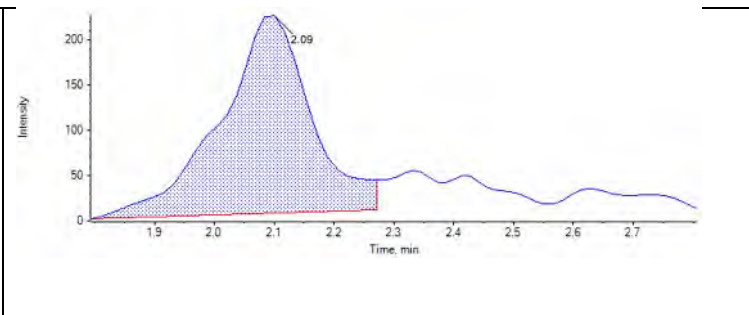
JU38 Branch	
RT (Exp. RT):	2.08 (2.00) min
Calculated Conc:	4122.390745 ng/L
Area:	304155.360108
Modified:	(False)



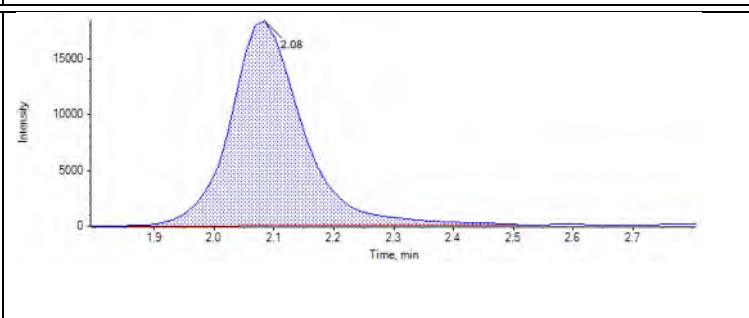
MeOH	
RT (Exp. RT):	N/A (2.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



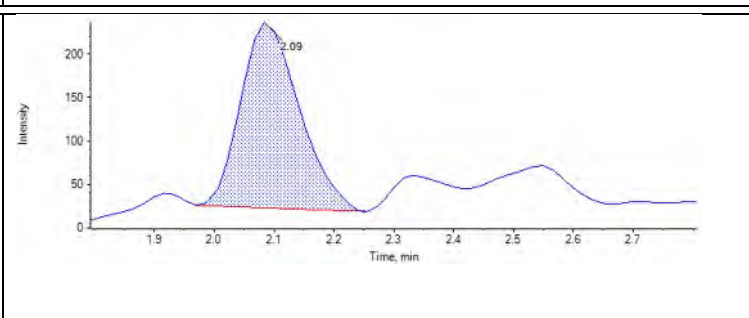
CQ350PB-FS(3)	
RT (Exp. RT):	2.09 (2.00) min
Calculated Conc:	57.885095 ng/L
Area:	2303.965818
Modified:	(False)



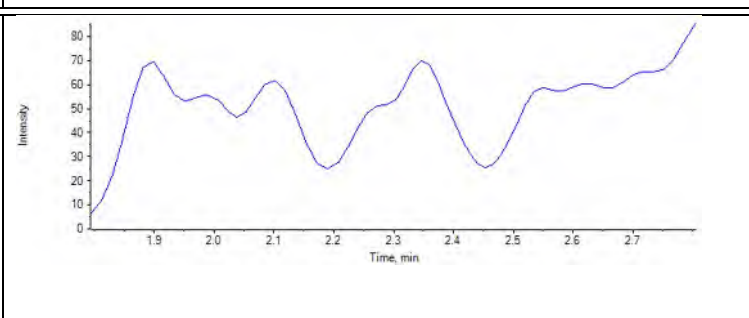
CQ351LCS-FS(3)	
RT (Exp. RT):	2.08 (2.00) min
Calculated Conc:	2171.066329 ng/L
Area:	154945.451090
Modified:	(False)



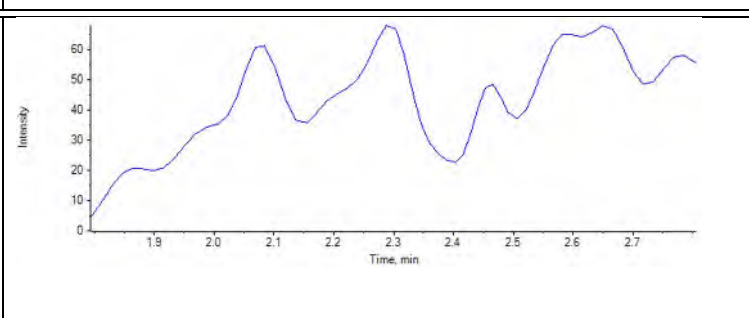
J5386-FS(3)	
RT (Exp. RT):	2.09 (2.00) min
Calculated Conc:	23.194400 ng/L
Area:	1453.296443
Modified:	(False)



J5391-FS(3)	
RT (Exp. RT):	N/A (2.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

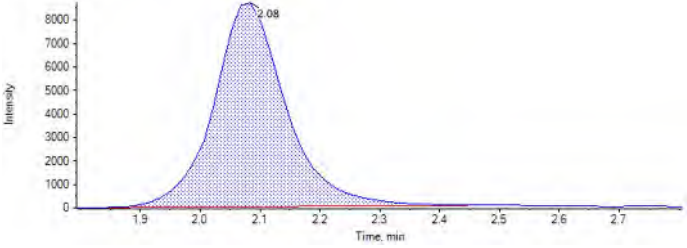


J5393-FS(3)	
RT (Exp. RT):	N/A (2.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



JU09 CCV

RT (Exp. RT): 2.08 (2.00) min
Calculated Conc: 836.382302 ng/L
Area: 73068.043812
Modified: (False)



Analyte: PFOA_1 (413.0 / 369.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

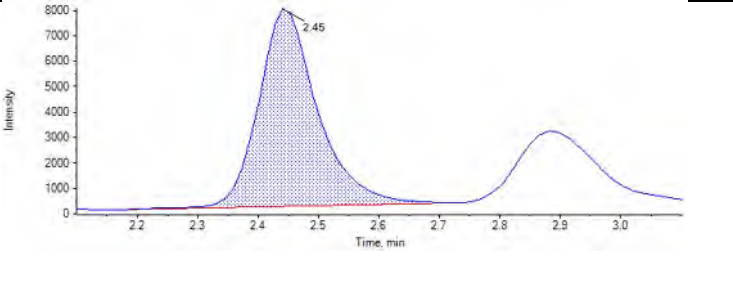
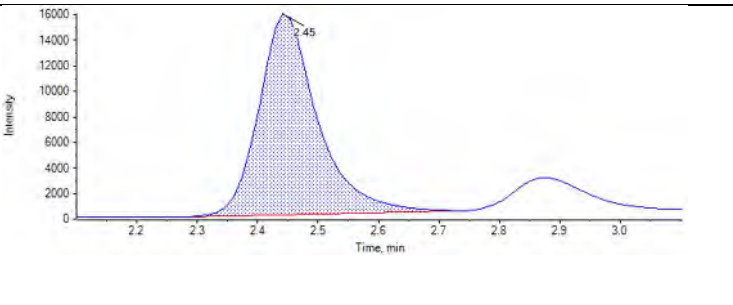
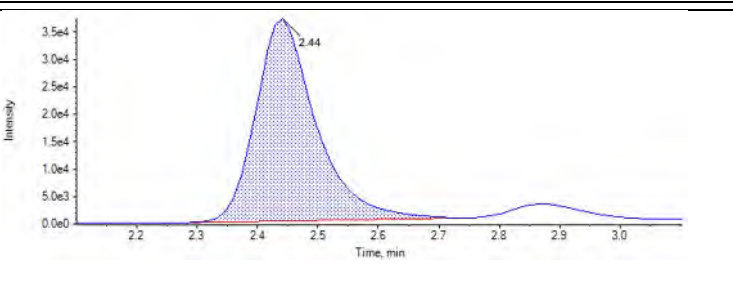
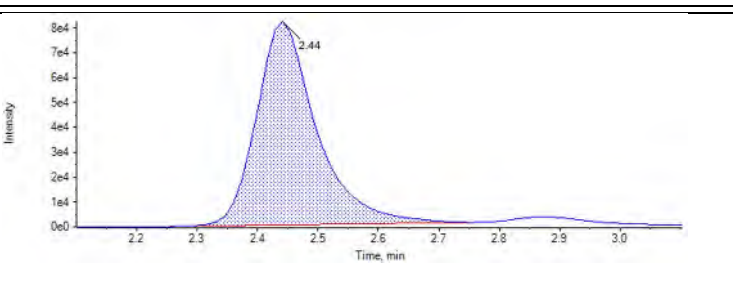
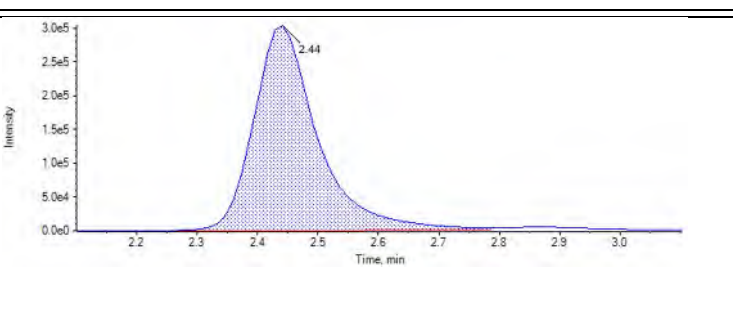
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11269	2.44	34260	25.00000	30.124194	121
JU05	Standard	3/29/2018 7:57:30 PM	17441	2.45	29930	50.00000	59.354635	119
JU06	Standard	3/29/2018 8:08:16 PM	31361	2.44	33410	100.00000	100.374593	100
JU07	Standard	3/29/2018 8:19:03 PM	52826	2.45	27420	250.00000	214.159880	86
JU08	Standard	3/29/2018 8:29:49 PM	106316	2.45	28990	500.00000	414.748101	83
JU09	Standard	3/29/2018 8:40:36 PM	255833	2.44	30930	1000.00000	945.329057	95
JU10	Standard	3/29/2018 8:51:22 PM	564410	2.44	27530	2500.00000	2354.234208	94
JU11	Standard	3/29/2018 9:02:09 PM	2233564	2.44	24930	10000.00000	10314.027698	103
JU12	Standard	3/29/2018 9:12:55 PM	5922851	2.44	34120	20000.00000	19992.647633	100
JP83 IB	Unknown	3/29/2018 9:23:42 PM	24517	2.45	33660	N/A	76.133459	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	254832	2.43	31220	1000.00000	932.574401	93
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	2298350	2.40	30930	N/A	8553.523431	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	15121	2.44	18340	N/A	87.242762	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	594610	2.44	28610	N/A	2386.681902	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	10336	2.44	21790	N/A	46.882227	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	6836	2.44	22760	N/A	26.831506	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	6841	2.43	27670	N/A	20.708012	N/A

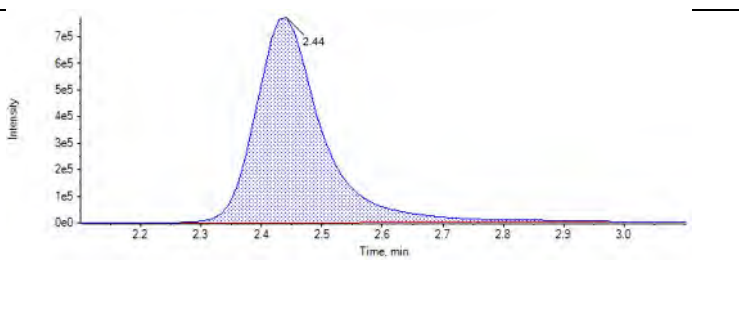
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	254724	2.43	30270	1000.00000	961.795217	96

Chromatograms:

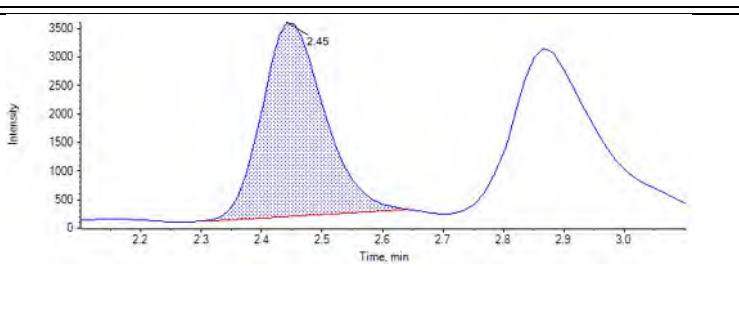
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 30.124194 ng/L</p> <p>Area: 11268.810492</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 59.354635 ng/L</p> <p>Area: 17440.536342</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 100.374593 ng/L</p> <p>Area: 31360.938790</p> <p>Modified: (False)</p>	

<p>JU07</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 214.159880 ng/L</p> <p>Area: 52825.531145</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 414.748101 ng/L</p> <p>Area: 106316.483664</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 945.329057 ng/L</p> <p>Area: 255832.699683</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 2354.234208 ng/L</p> <p>Area: 564409.794432</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 10314.027698 ng/L</p> <p>Area: 2233563.919810</p> <p>Modified: (False)</p>	

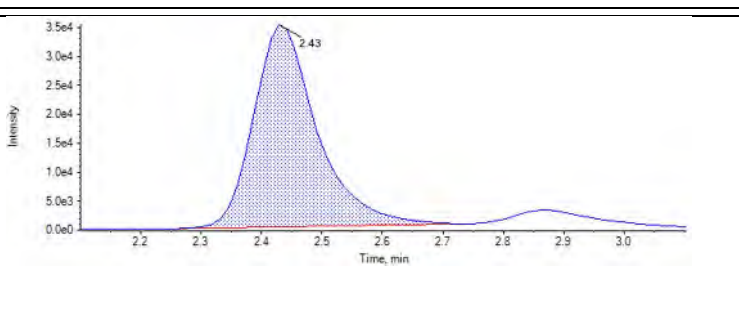
JU12	
RT (Exp. RT):	2.44 (2.40) min
Calculated Conc:	19992.647633 ng/L
Area:	5922850.756840
Modified:	(False)



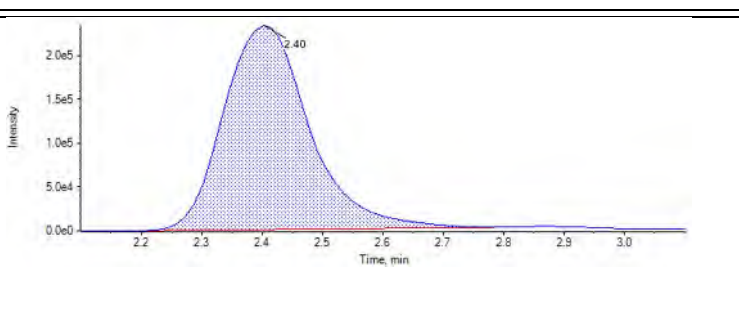
JP83 IB	
RT (Exp. RT):	2.45 (2.40) min
Calculated Conc:	76.133459 ng/L
Area:	24517.221079
Modified:	(True)



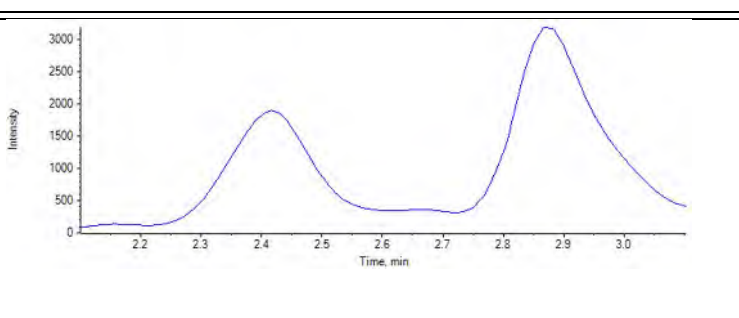
JU13 ICC	
RT (Exp. RT):	2.43 (2.40) min
Calculated Conc:	932.574401 ng/L
Area:	254832.344840
Modified:	(False)



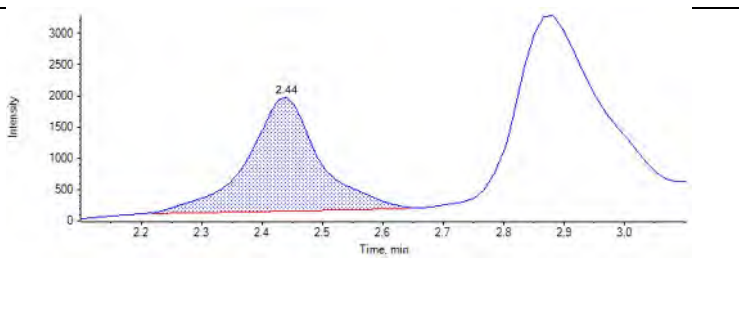
JU38 Branch	
RT (Exp. RT):	2.40 (2.40) min
Calculated Conc:	8553.523431 ng/L
Area:	2298349.936503
Modified:	(False)



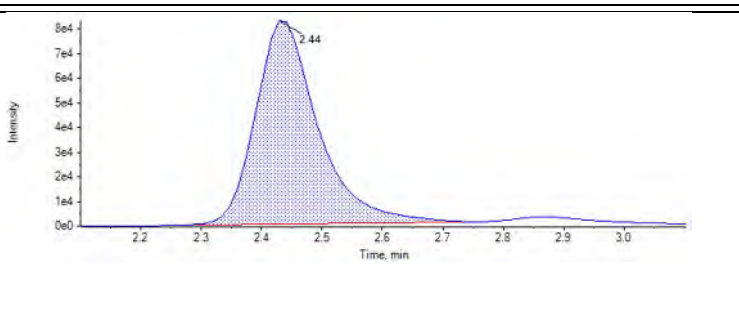
MeOH	
RT (Exp. RT):	N/A (2.40) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



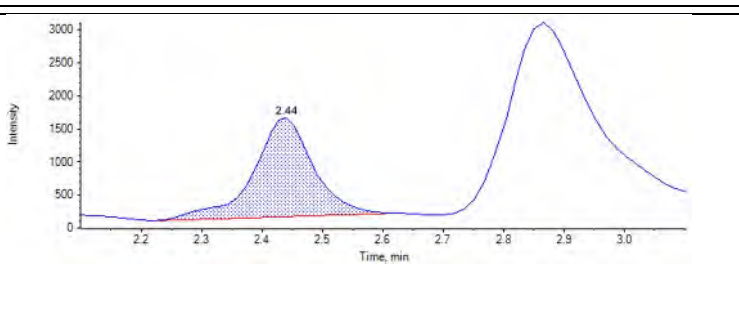
CQ350PB-FS(3)	
RT (Exp. RT):	2.44 (2.40) min
Calculated Conc:	87.242762 ng/L
Area:	15121.097297
Modified:	(True)



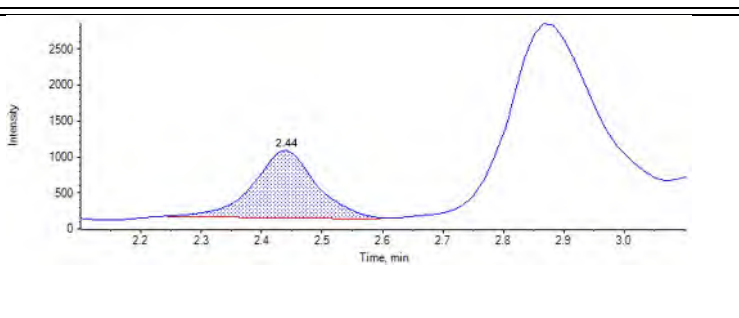
CQ351LCS-FS(3)	
RT (Exp. RT):	2.44 (2.40) min
Calculated Conc:	2386.681902 ng/L
Area:	594610.218906
Modified:	(False)



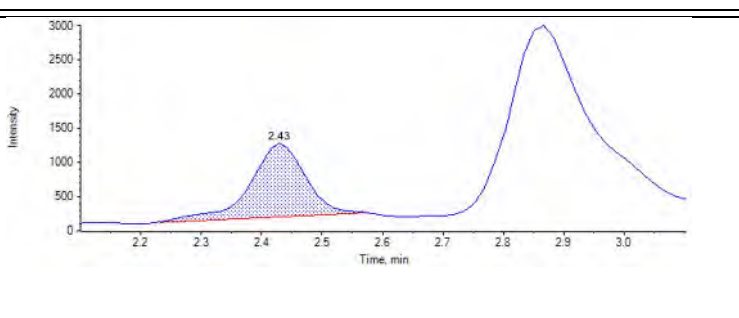
J5386-FS(3)	
RT (Exp. RT):	2.44 (2.40) min
Calculated Conc:	46.882227 ng/L
Area:	10336.149954
Modified:	(True)



J5391-FS(3)	
RT (Exp. RT):	2.44 (2.40) min
Calculated Conc:	26.831506 ng/L
Area:	6835.683273
Modified:	(True)

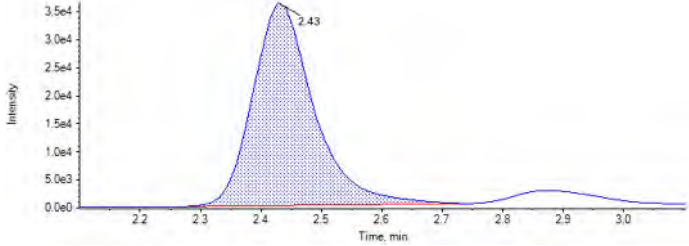


J5393-FS(3)	
RT (Exp. RT):	2.43 (2.40) min
Calculated Conc:	20.708012 ng/L
Area:	6841.044801
Modified:	(True)



JU09 CCV

RT (Exp. RT): 2.43 (2.40) min
Calculated Conc: 961.795217 ng/L
Area: 254724.408847
Modified: (False)



Analyte: PFOA_2 (413.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

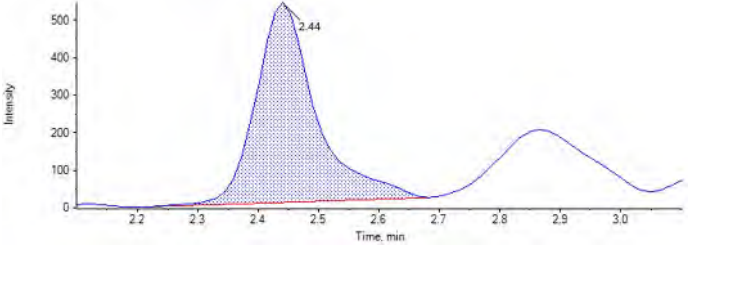
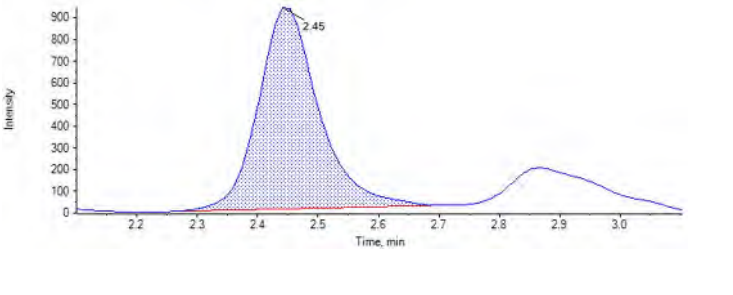
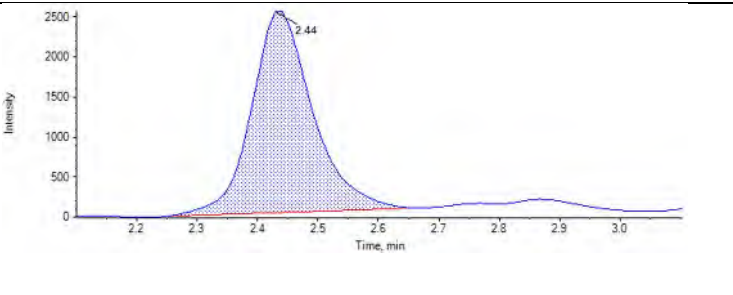
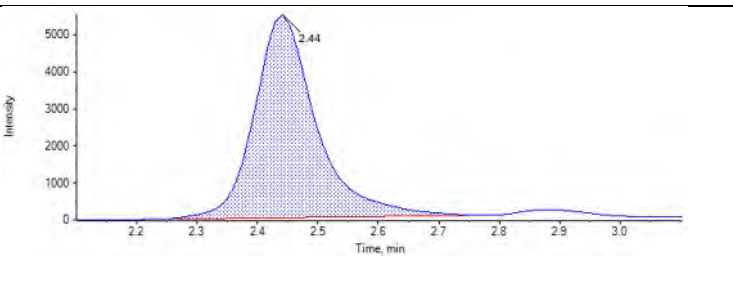
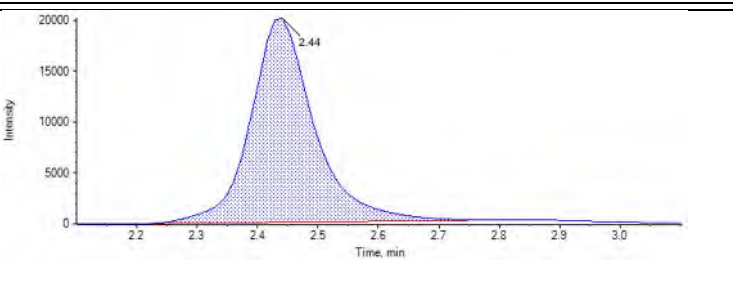
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	454	2.42	34260	25.00000	45.005182	180
JU05	Standard	3/29/2018 7:57:30 PM	1341	2.44	29930	50.00000	97.833645	196
JU06	Standard	3/29/2018 8:08:16 PM	2047	2.45	33410	100.00000	125.427924	125
JU07	Standard	3/29/2018 8:19:03 PM	3697	2.44	27420	250.00000	248.569421	99
JU08	Standard	3/29/2018 8:29:49 PM	6498	2.45	28990	500.00000	398.190136	80
JU09	Standard	3/29/2018 8:40:36 PM	17809	2.44	30930	1000.00000	987.151776	99
JU10	Standard	3/29/2018 8:51:22 PM	39164	2.44	27530	2500.00000	2404.994229	96
JU11	Standard	3/29/2018 9:02:09 PM	147541	2.44	24930	10000.00000	9932.600203	99
JU12	Standard	3/29/2018 9:12:55 PM	412193	2.44	34120	20000.00000	20253.066310	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1593	2.44	33660	N/A	102.060306	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	16067	2.44	31220	1000.00000	884.563132	88
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	213474	2.39	30930	N/A	11580.232078	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	978	2.41	18340	N/A	112.113221	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	40617	2.43	28610	N/A	2400.104014	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	712	2.43	21790	N/A	77.530960	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	534	2.42	22760	N/A	62.134170	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	825	2.37	27670	N/A	72.770710	N/A

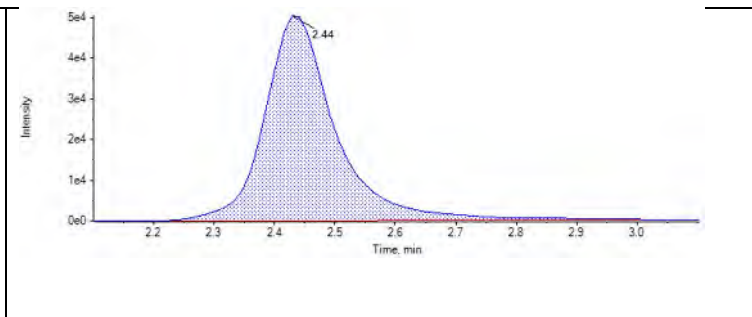
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	17696	2.43	30270	1000.00000	1001.828070	100

Chromatograms:

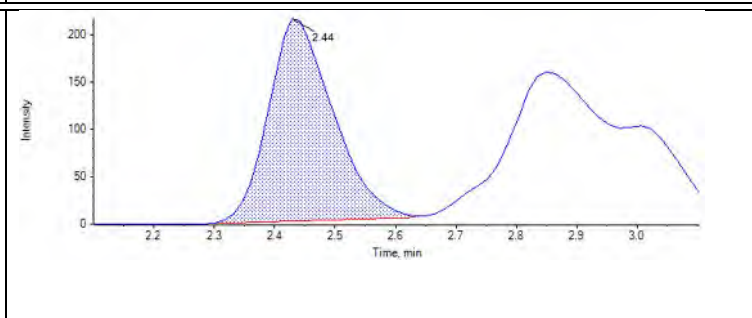
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 250) and time in minutes on the x-axis (2.2 to 3.0). A single prominent peak is observed at 2.43 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 45.005182 ng/L</p> <p>Area: 453.524244</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 200) and time in minutes on the x-axis (2.2 to 3.0). A peak is labeled at 2.42 minutes.</p>
<p>JU05</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 97.833645 ng/L</p> <p>Area: 1340.603758</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 200) and time in minutes on the x-axis (2.2 to 3.0). A peak is labeled at 2.44 minutes.</p>
<p>JU06</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 125.427924 ng/L</p> <p>Area: 2046.843247</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 300) and time in minutes on the x-axis (2.2 to 3.0). A peak is labeled at 2.45 minutes.</p>

<p>JU07</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 248.569421 ng/L</p> <p>Area: 3696.764929</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 398.190136 ng/L</p> <p>Area: 6498.289926</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 987.151776 ng/L</p> <p>Area: 17809.137380</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 2404.994229 ng/L</p> <p>Area: 39164.399941</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 9932.600203 ng/L</p> <p>Area: 147541.464404</p> <p>Modified: (False)</p>	

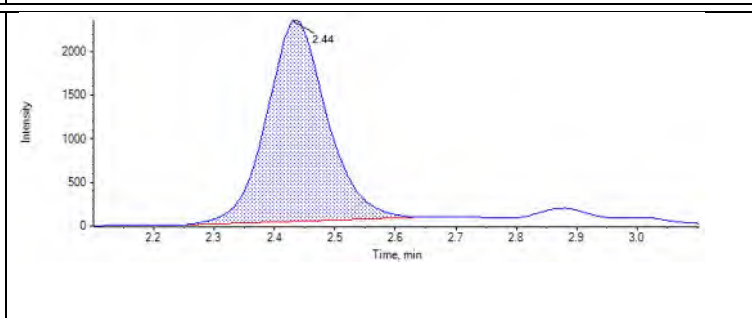
JU12
 RT (Exp. RT): 2.44 (2.40) min
 Calculated Conc: 20253.066310 ng/L
 Area: 412192.783446
 Modified: (False)



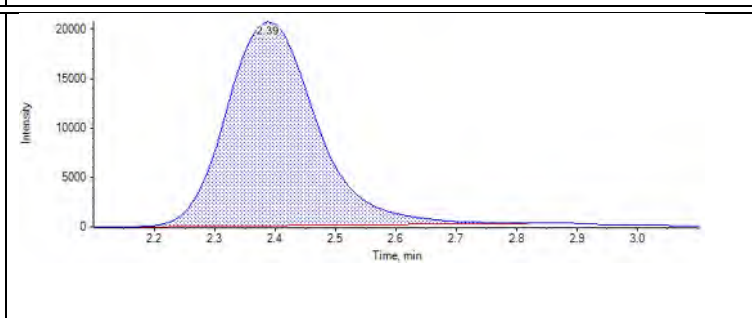
JP83 IB
 RT (Exp. RT): 2.44 (2.40) min
 Calculated Conc: 102.060306 ng/L
 Area: 1592.688981
 Modified: (True)



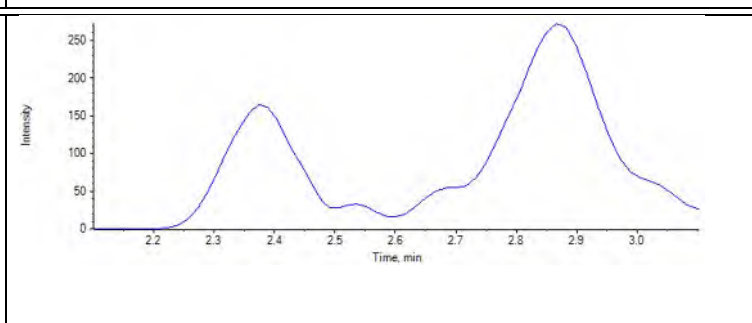
JU13 ICC
 RT (Exp. RT): 2.44 (2.40) min
 Calculated Conc: 884.563132 ng/L
 Area: 16067.300677
 Modified: (False)



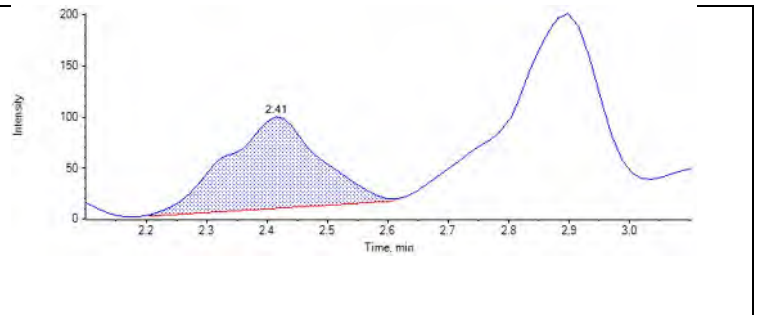
JU38 Branch
 RT (Exp. RT): 2.39 (2.40) min
 Calculated Conc: 11580.232078 ng/L
 Area: 213473.738429
 Modified: (False)



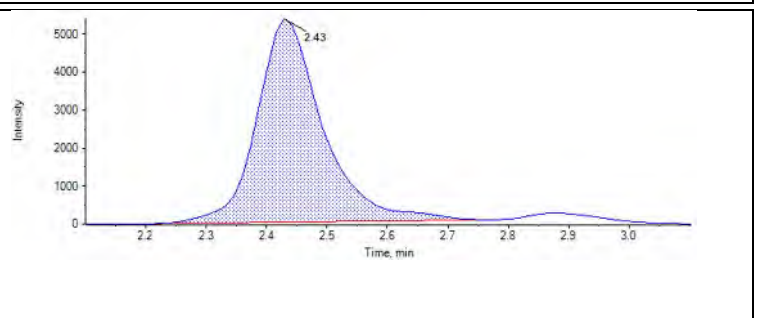
MeOH
 RT (Exp. RT): N/A (2.40) min
 Calculated Conc: N/A ng/L
 Area: N/A
 Modified: (True)



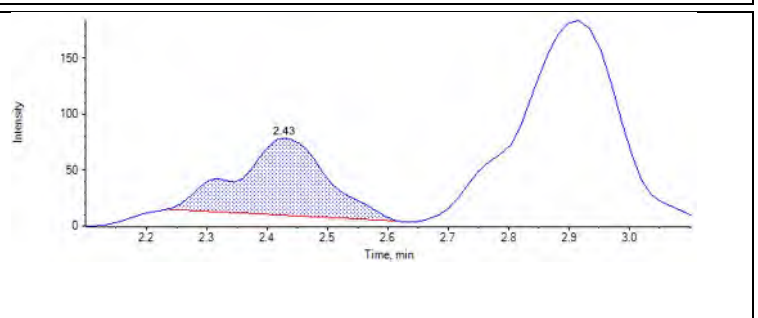
CQ350PB-FS(3)	
RT (Exp. RT):	2.41 (2.40) min
Calculated Conc:	112.113221 ng/L
Area:	977.521454
Modified:	(True)



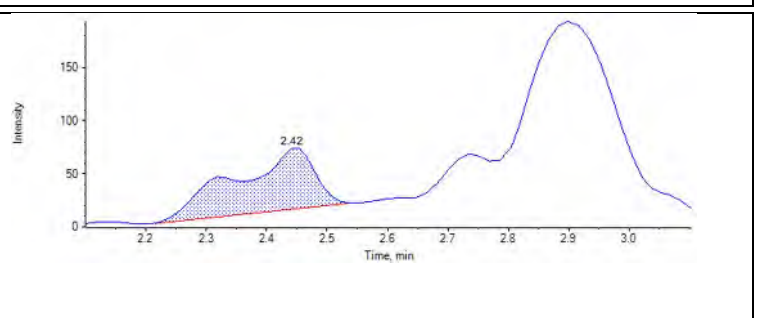
CQ351LCS-FS(3)	
RT (Exp. RT):	2.43 (2.40) min
Calculated Conc:	2400.104014 ng/L
Area:	40617.333292
Modified:	(False)



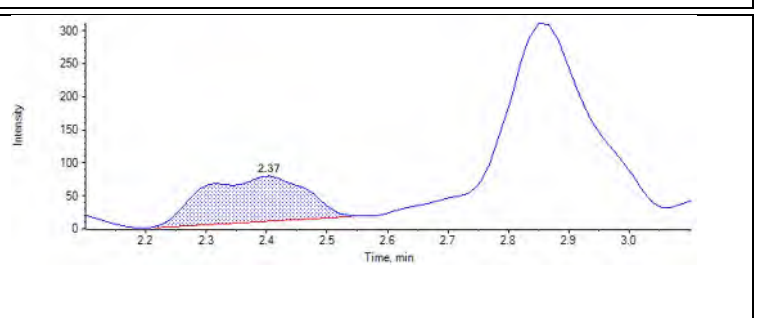
J5386-FS(3)	
RT (Exp. RT):	2.43 (2.40) min
Calculated Conc:	77.530960 ng/L
Area:	711.648053
Modified:	(True)



J5391-FS(3)	
RT (Exp. RT):	2.42 (2.40) min
Calculated Conc:	62.134170 ng/L
Area:	534.076155
Modified:	(True)

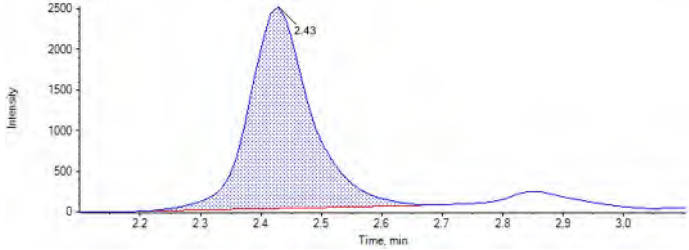


J5393-FS(3)	
RT (Exp. RT):	2.37 (2.40) min
Calculated Conc:	72.770710 ng/L
Area:	825.177713
Modified:	(True)



JU09 CCV

RT (Exp. RT): 2.43 (2.40) min
Calculated Conc: 1001.828070 ng/L
Area: 17696.131972
Modified: (False)



Analyte: PFNA_1 (463.0 / 419.0)

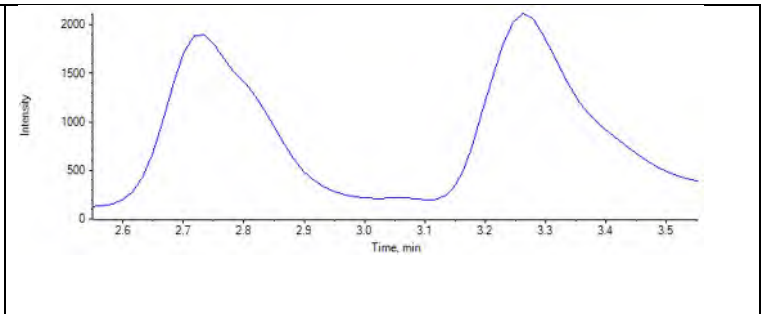
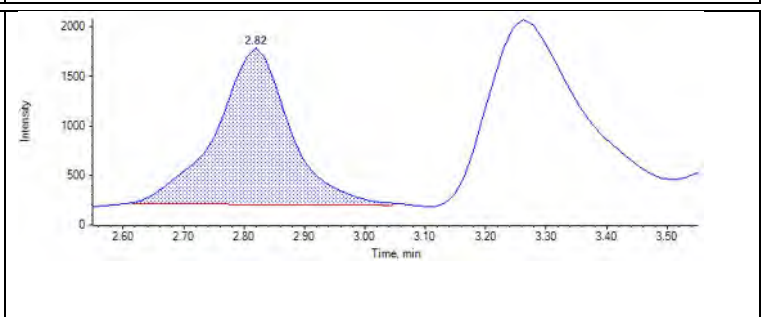
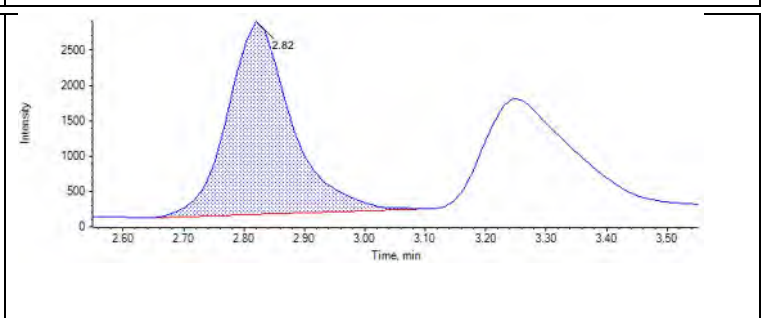
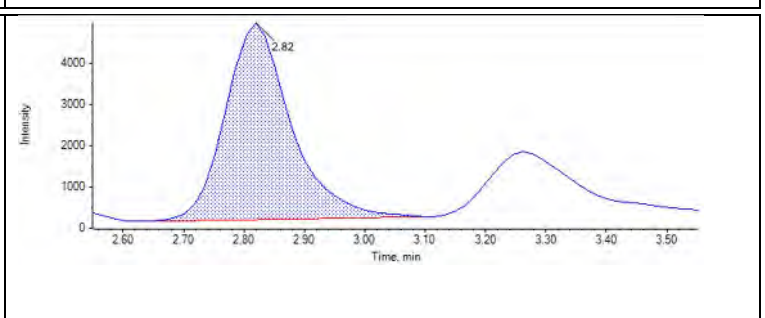
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

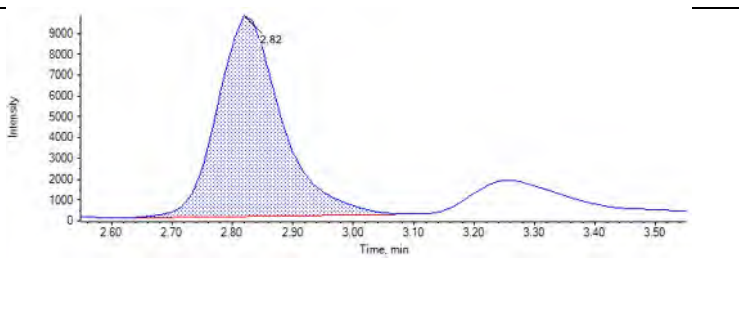
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	13404	2.82	40780	25.00000	31.135941	125
JU05	Standard	3/29/2018 7:57:30 PM	20065	2.82	39140	50.00000	51.831255	104
JU06	Standard	3/29/2018 8:08:16 PM	36123	2.82	40120	100.00000	95.441458	95
JU07	Standard	3/29/2018 8:19:03 PM	71266	2.82	31720	250.00000	246.912526	99
JU08	Standard	3/29/2018 8:29:49 PM	139918	2.83	33490	500.00000	464.101080	93
JU09	Standard	3/29/2018 8:40:36 PM	317486	2.82	41520	1000.00000	854.249474	85
JU10	Standard	3/29/2018 8:51:22 PM	684886	2.82	32630	2500.00000	2355.097628	94
JU11	Standard	3/29/2018 9:02:09 PM	2649099	2.82	27830	10000.00000	10701.407079	107
JU12	Standard	3/29/2018 9:12:55 PM	6858378	2.82	39300	20000.00000	19624.823558	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	27980	2.82	40380	N/A	72.109345	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	326340	2.81	35560	1000.00000	1026.499310	103
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	35160	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	9869	2.80	23280	N/A	41.839760	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	696895	2.82	32430	N/A	2411.786695	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	6778	2.81	27270	N/A	22.123256	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2541	2.81	26530	N/A	4.933309	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	2532	2.82	35660	N/A	2.148481	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	337389	2.81	37150	1000.00000	1015.716115	102

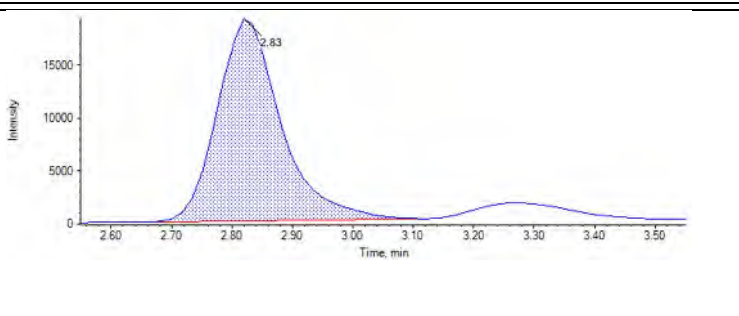
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 31.135941 ng/L</p> <p>Area: 13404.290488</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 51.831255 ng/L</p> <p>Area: 20065.355830</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 95.441458 ng/L</p> <p>Area: 36123.402605</p> <p>Modified: (False)</p>	

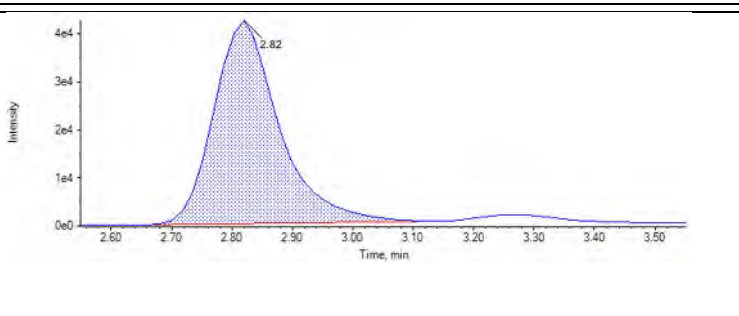
JU07
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 246.912526 ng/L
Area: 71266.423991
Modified: (False)



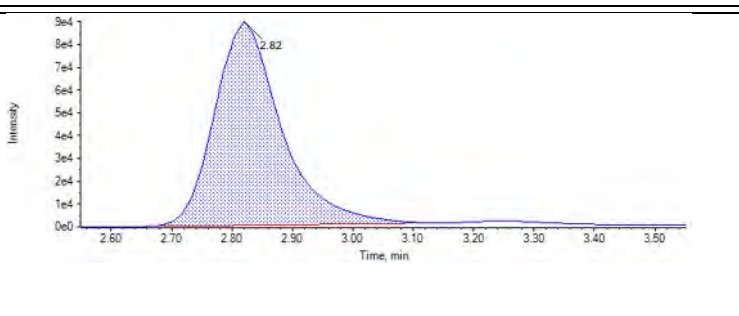
JU08
RT (Exp. RT): 2.83 (2.80) min
Calculated Conc: 464.101080 ng/L
Area: 139917.803361
Modified: (False)



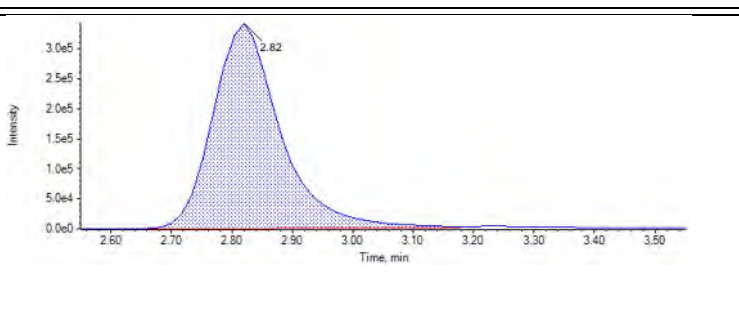
JU09
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 854.249474 ng/L
Area: 317486.337737
Modified: (False)



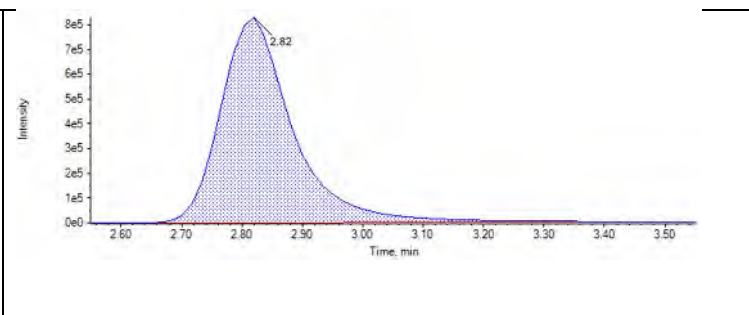
JU10
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 2355.097628 ng/L
Area: 684886.291851
Modified: (False)



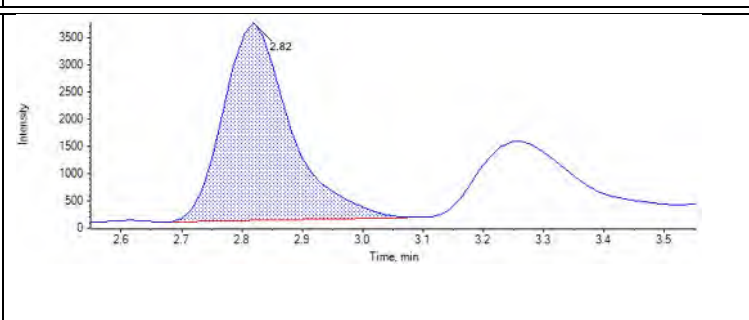
JU11
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 10701.407079 ng/L
Area: 2649098.844527
Modified: (False)



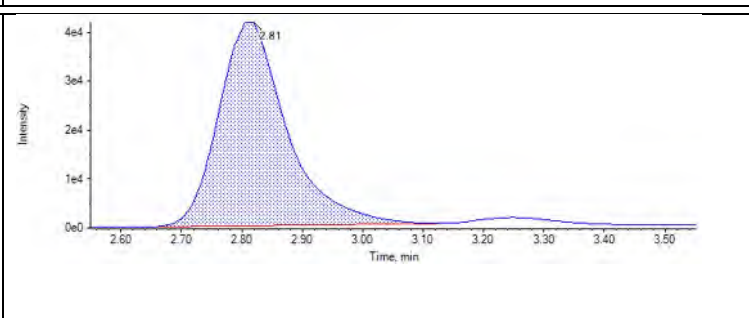
JU12	
RT (Exp. RT):	2.82 (2.80) min
Calculated Conc:	19624.823558 ng/L
Area:	6858377.871977
Modified:	(False)



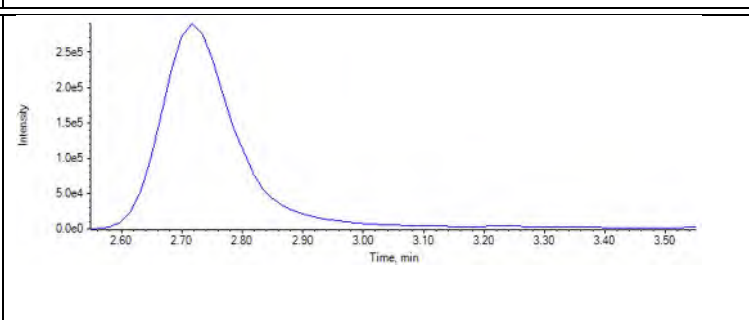
JP83 IB	
RT (Exp. RT):	2.82 (2.80) min
Calculated Conc:	72.109345 ng/L
Area:	27980.118107
Modified:	(False)



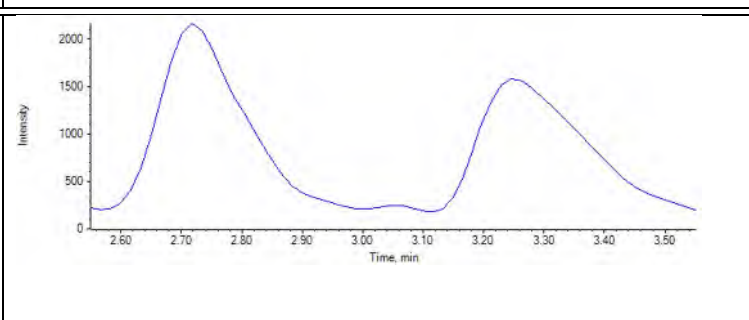
JU13 ICC	
RT (Exp. RT):	2.81 (2.80) min
Calculated Conc:	1026.499310 ng/L
Area:	326340.065798
Modified:	(False)



JU38 Branch	
RT (Exp. RT):	N/A (2.80) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



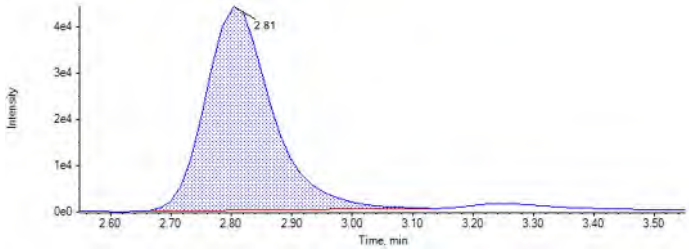
MeOH	
RT (Exp. RT):	N/A (2.80) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.80 (2.80) min</p> <p>Calculated Conc: 41.839760 ng/L</p> <p>Area: 9869.022946</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2411.786695 ng/L</p> <p>Area: 696895.444658</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 22.123256 ng/L</p> <p>Area: 6778.123887</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 4.933309 ng/L</p> <p>Area: 2540.769574</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2.148481 ng/L</p> <p>Area: 2531.888181</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 2.81 (2.80) min
Calculated Conc: 1015.716115 ng/L
Area: 337388.516999
Modified: (False)



Analyte: PFNA_2 (463.0 / 219.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

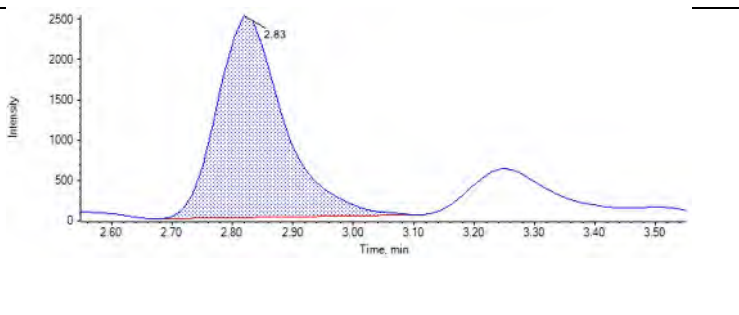
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	3037	2.83	40780	25.00000	30.853910	123
JU05	Standard	3/29/2018 7:57:30 PM	5304	2.83	39140	50.00000	54.312522	109
JU06	Standard	3/29/2018 8:08:16 PM	9752	2.82	40120	100.00000	95.663390	96
JU07	Standard	3/29/2018 8:19:03 PM	19063	2.83	31720	250.00000	233.271399	93
JU08	Standard	3/29/2018 8:29:49 PM	39766	2.82	33490	500.00000	458.661296	92
JU09	Standard	3/29/2018 8:40:36 PM	93522	2.82	41520	1000.00000	868.059048	87
JU10	Standard	3/29/2018 8:51:22 PM	203616	2.82	32630	2500.00000	2400.942236	96
JU11	Standard	3/29/2018 9:02:09 PM	767174	2.82	27830	10000.00000	10599.066368	106
JU12	Standard	3/29/2018 9:12:55 PM	2012109	2.82	39300	20000.00000	19684.169831	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	10662	2.82	40380	N/A	103.724868	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	92511	2.82	35560	1000.00000	1002.330252	100
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	35160	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1105	2.82	23280	N/A	20.459240	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	213226	2.81	32430	N/A	2530.146254	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1914	2.82	27270	N/A	29.208413	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	26530	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35660	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	98637	2.81	37150	1000.00000	1022.864687	102

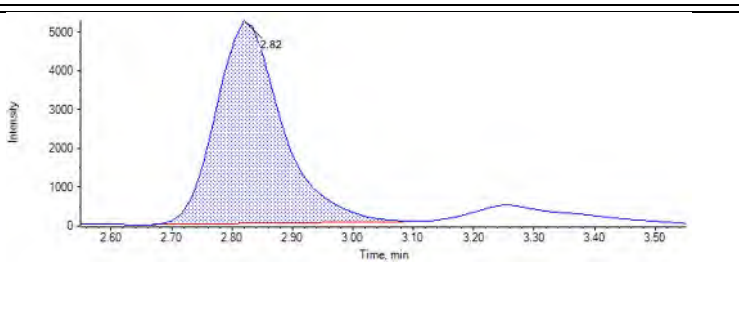
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 1000) and time in minutes on the x-axis (2.6 to 3.5). A single peak is visible at 2.83 minutes with an intensity of approximately 600.</p>
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 30.853910 ng/L</p> <p>Area: 3037.415374</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 500) and time in minutes on the x-axis (2.60 to 3.50). A peak is labeled at 2.83 minutes with an intensity of approximately 500.</p>
<p>JU05</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 54.312522 ng/L</p> <p>Area: 5303.505789</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 800) and time in minutes on the x-axis (2.60 to 3.50). A peak is labeled at 2.83 minutes with an intensity of approximately 800.</p>
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 95.663390 ng/L</p> <p>Area: 9752.282453</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 1200) and time in minutes on the x-axis (2.60 to 3.50). A peak is labeled at 2.82 minutes with an intensity of approximately 1200.</p>

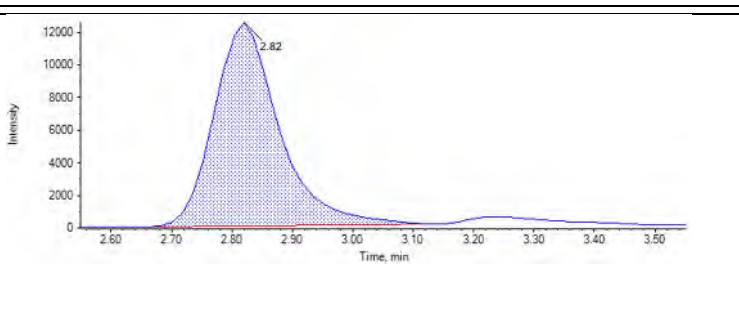
JU07
RT (Exp. RT): 2.83 (2.80) min
Calculated Conc: 233.271399 ng/L
Area: 19063.202429
Modified: (False)



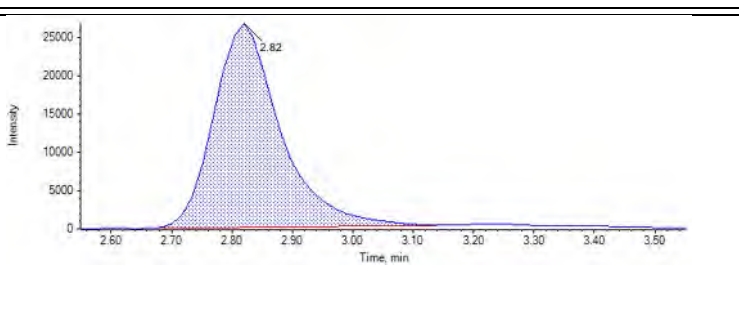
JU08
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 458.661296 ng/L
Area: 39766.011082
Modified: (False)



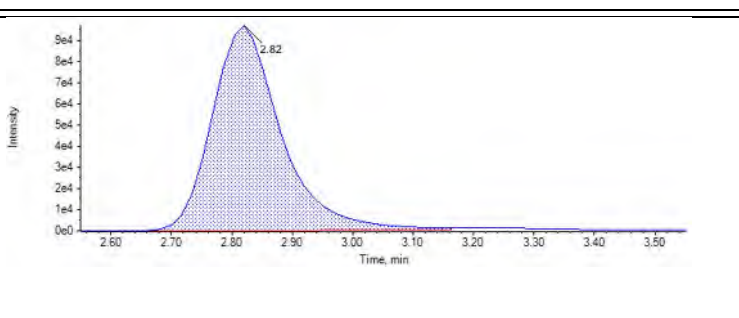
JU09
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 868.059048 ng/L
Area: 93522.457777
Modified: (False)

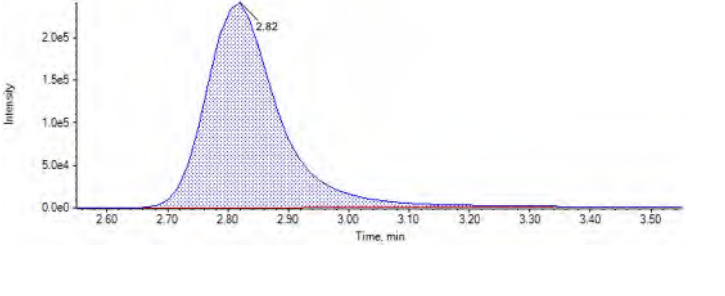
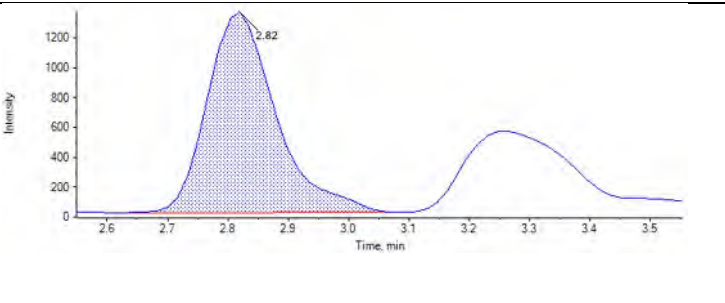
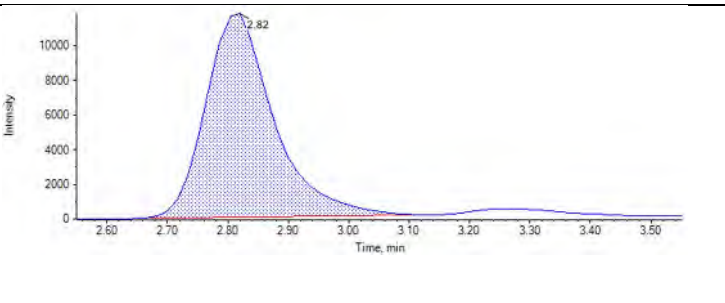
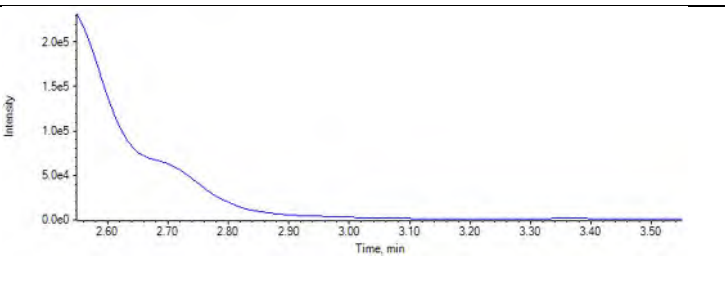
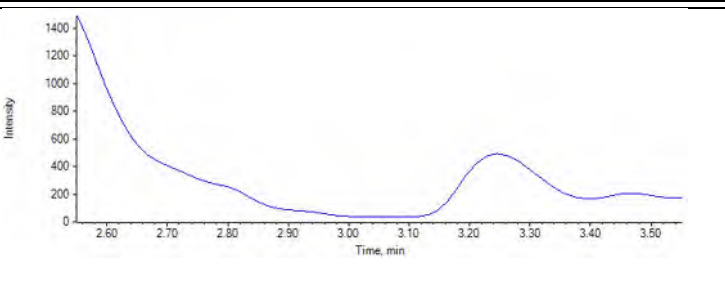


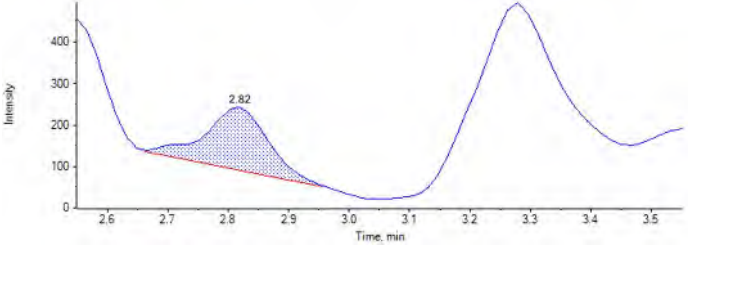
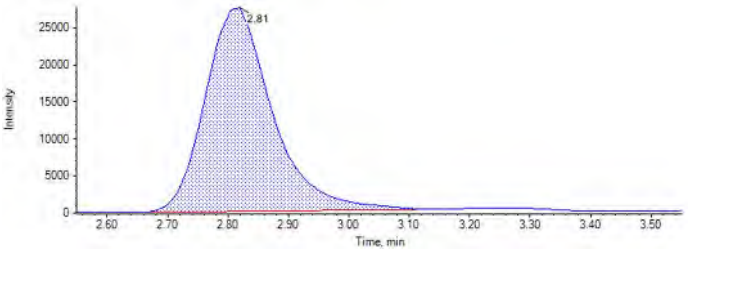
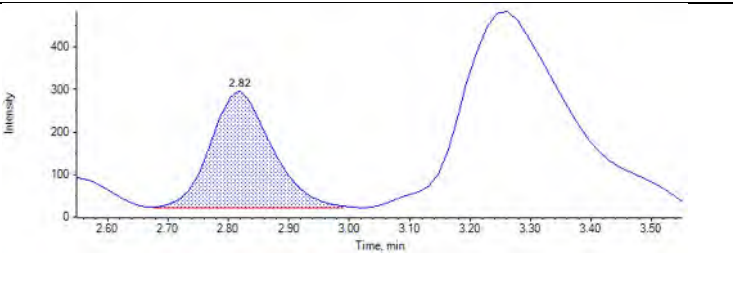
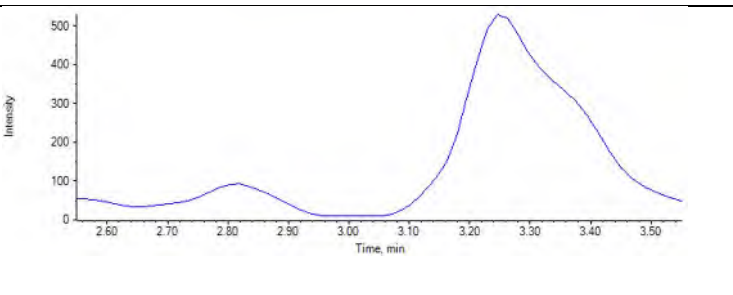
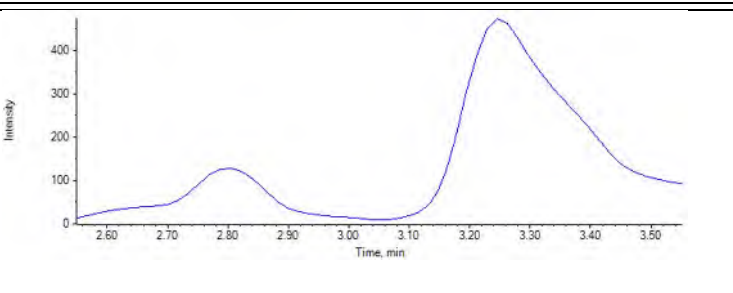
JU10
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 2400.942236 ng/L
Area: 203615.611489
Modified: (False)



JU11
RT (Exp. RT): 2.82 (2.80) min
Calculated Conc: 10599.066368 ng/L
Area: 767174.294135
Modified: (False)

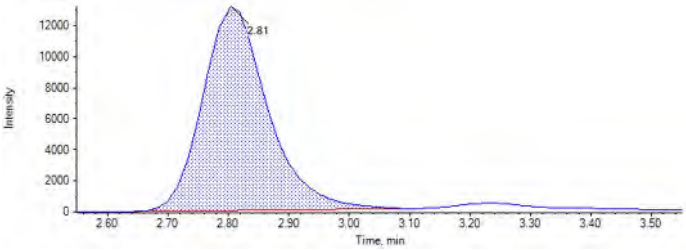


<p>JU12</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 19684.169831 ng/L</p> <p>Area: 2012109.474016</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 103.724868 ng/L</p> <p>Area: 10661.688126</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 1002.330252 ng/L</p> <p>Area: 92510.935926</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 20.459240 ng/L</p> <p>Area: 1104.659553</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 2.6 to 3.5 minutes. The y-axis represents intensity from 0 to 400. Two peaks are visible: a smaller peak at 2.82 minutes and a larger peak at approximately 3.28 minutes. The peak at 2.82 minutes is shaded with a blue grid pattern.</p>
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 2530.146254 ng/L</p> <p>Area: 213225.892079</p> <p>Modified: (False)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 2.60 to 3.50 minutes. The y-axis represents intensity from 0 to 25000. A single, very sharp and tall peak is visible at 2.81 minutes, shaded with a blue grid pattern.</p>
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 29.208413 ng/L</p> <p>Area: 1914.274489</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 2.60 to 3.50 minutes. The y-axis represents intensity from 0 to 400. Two peaks are visible: a smaller peak at 2.82 minutes and a larger peak at approximately 3.28 minutes. The peak at 2.82 minutes is shaded with a blue grid pattern.</p>
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 2.60 to 3.50 minutes. The y-axis represents intensity from 0 to 500. A single peak is visible at approximately 3.28 minutes.</p>
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	 <p>Chromatogram showing intensity versus time (min). The x-axis ranges from 2.60 to 3.50 minutes. The y-axis represents intensity from 0 to 400. Two peaks are visible: a smaller peak at 2.82 minutes and a larger peak at approximately 3.28 minutes.</p>

JU09 CCV

RT (Exp. RT): 2.81 (2.80) min
Calculated Conc: 1022.864687 ng/L
Area: 98637.017856
Modified: (False)



Analyte: PFOS_1 (499.0 / 80.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

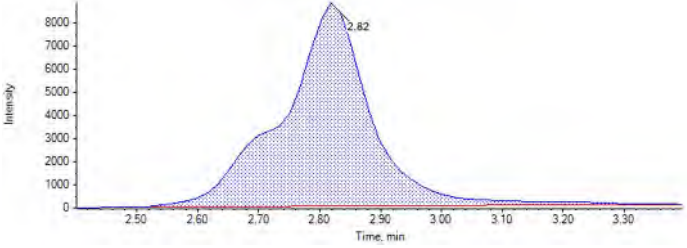
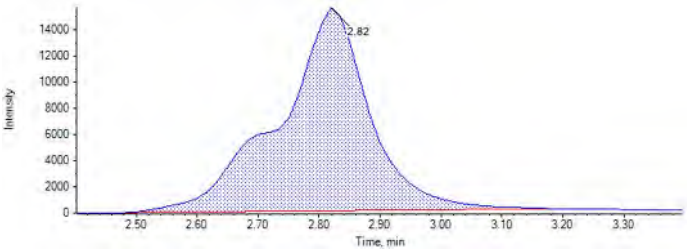
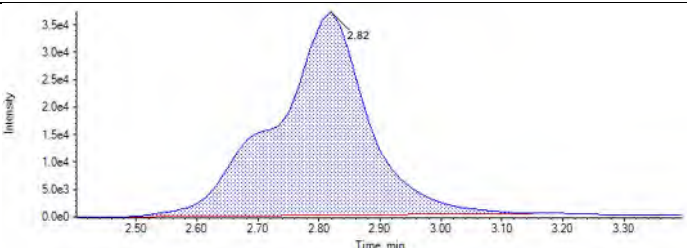
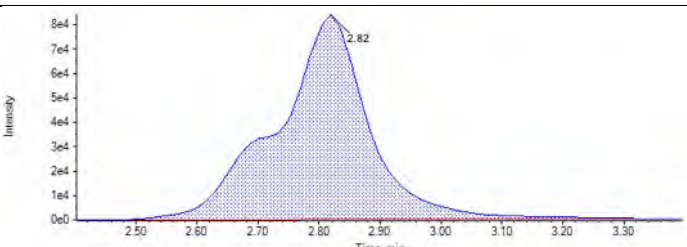
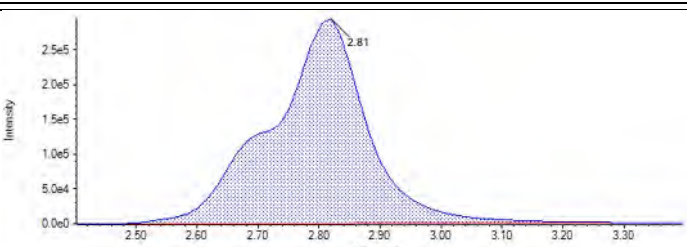
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	17069	2.79	10230	25.00000	42.767875	171
JU05	Standard	3/29/2018 7:57:30 PM	27709	2.81	10940	50.00000	61.259255	123
JU06	Standard	3/29/2018 8:08:16 PM	47453	2.82	10200	100.00000	106.671885	107
JU07	Standard	3/29/2018 8:19:03 PM	88716	2.82	6608	250.00000	294.562971	118
JU08	Standard	3/29/2018 8:29:49 PM	160254	2.82	9368	500.00000	373.378352	75
JU09	Standard	3/29/2018 8:40:36 PM	390198	2.82	8784	1000.00000	958.421303	96
JU10	Standard	3/29/2018 8:51:22 PM	876163	2.82	9198	2500.00000	2047.108968	82
JU11	Standard	3/29/2018 9:02:09 PM	3228594	2.81	7240	10000.00000	9557.854024	96
JU12	Standard	3/29/2018 9:12:55 PM	8322430	2.81	8490	20000.00000	21000.743243	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	38147	2.82	10080	N/A	88.109104	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	388817	2.81	9028	1000.00000	929.355680	93
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	6222940	2.72	8506	N/A	15675.341046	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	19536	2.76	5541	N/A	82.538068	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	859400	2.81	8368	N/A	2206.585783	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	7398	2.79	7093	N/A	29.362982	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	3567	2.78	6436	N/A	18.897348	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	2714	2.81	9315	N/A	13.266366	N/A

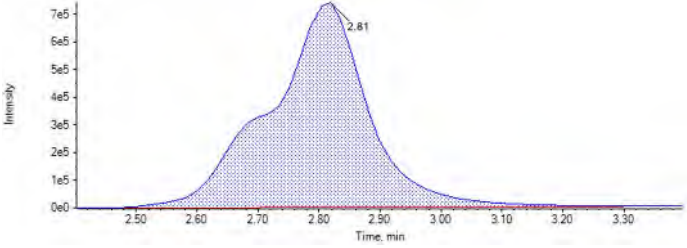
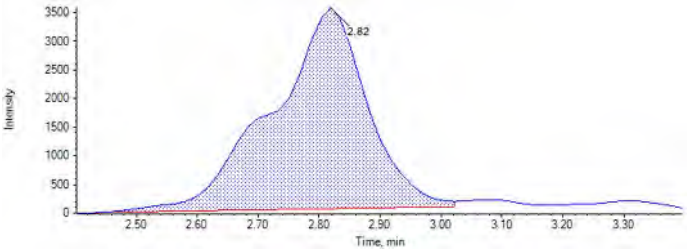
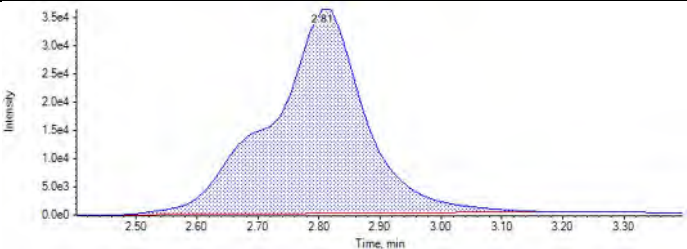
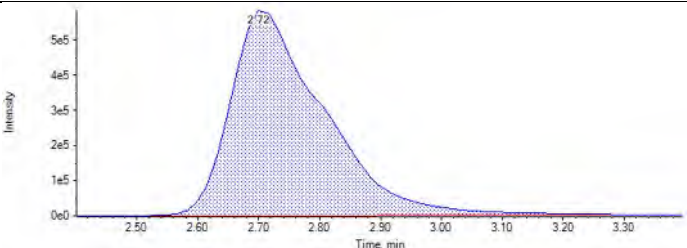
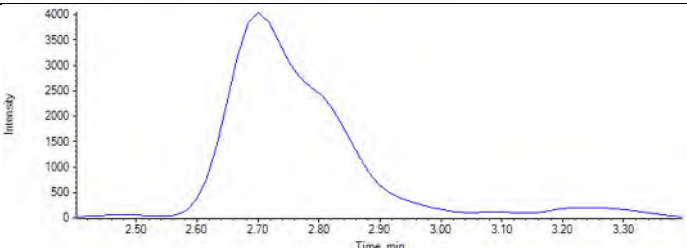
Not being used in this calibration
 DMS 4/6/18

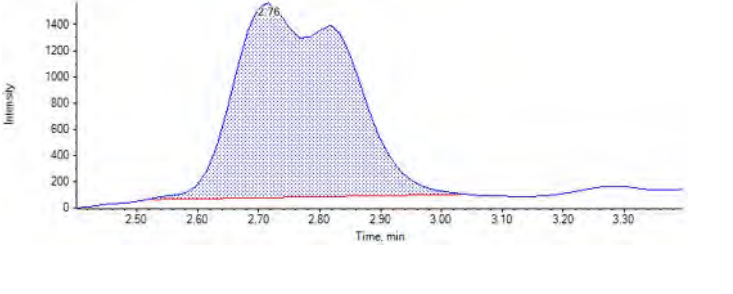
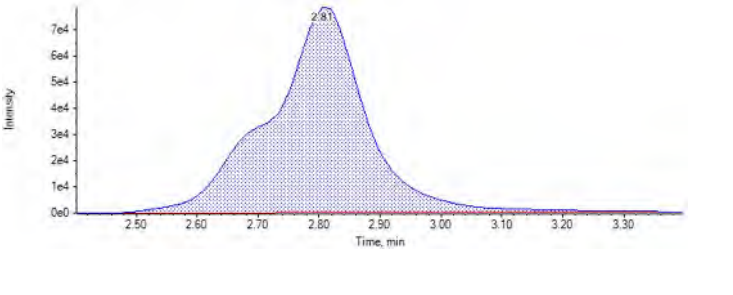
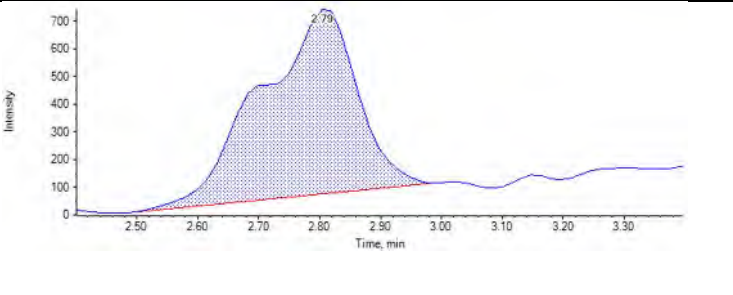
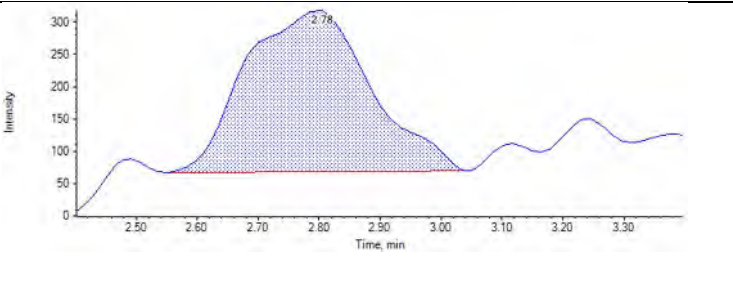
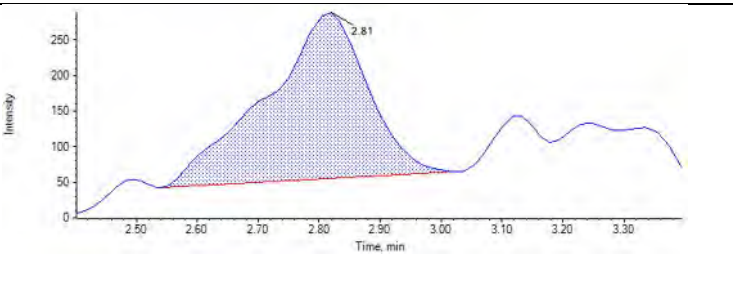
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	384072	2.80	9371	1000.00000	884.740916	88

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.79 (2.80) min</p> <p>Calculated Conc: 42.767875 ng/L</p> <p>Area: 17068.626808</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 61.259255 ng/L</p> <p>Area: 27709.012311</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 106.671885 ng/L</p> <p>Area: 47452.705481</p> <p>Modified: (False)</p>	

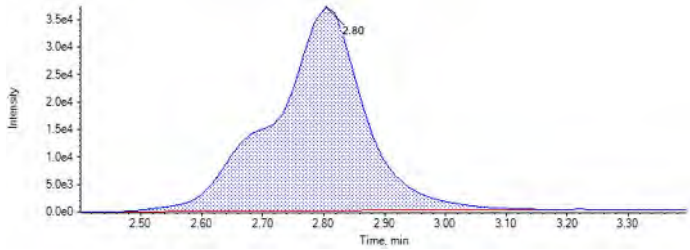
<p>JU07</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 294.562971 ng/L</p> <p>Area: 88716.024770</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 373.378352 ng/L</p> <p>Area: 160254.073788</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 958.421303 ng/L</p> <p>Area: 390197.823161</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2047.108968 ng/L</p> <p>Area: 876162.996242</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 9557.854024 ng/L</p> <p>Area: 3228594.471919</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 21000.743243 ng/L</p> <p>Area: 8322430.473372</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 88.109104 ng/L</p> <p>Area: 38146.666506</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 929.355680 ng/L</p> <p>Area: 388816.920702</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.72 (2.80) min</p> <p>Calculated Conc: 15675.341046 ng/L</p> <p>Area: 6222940.287596</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.76 (2.80) min</p> <p>Calculated Conc: 82.538068 ng/L</p> <p>Area: 19535.643420</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 2206.585783 ng/L</p> <p>Area: 859400.269785</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.79 (2.80) min</p> <p>Calculated Conc: 29.362982 ng/L</p> <p>Area: 7397.582437</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 2.78 (2.80) min</p> <p>Calculated Conc: 18.897348 ng/L</p> <p>Area: 3567.400752</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 13.266366 ng/L</p> <p>Area: 2714.303495</p> <p>Modified: (False)</p>	

JU09 CCV

RT (Exp. RT): 2.80 (2.80) min
Calculated Conc: 884.740916 ng/L
Area: 384071.690089
Modified: (False)



Analyte: PFOS_2 (499.0 / 99.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

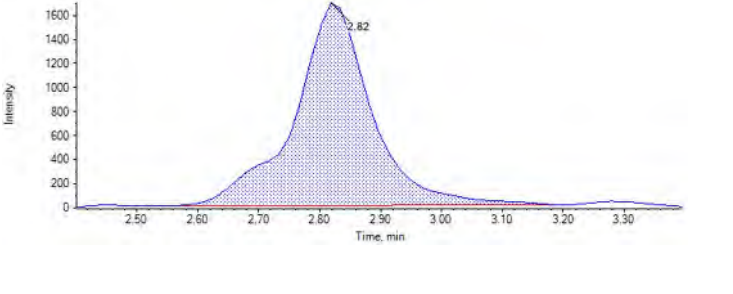
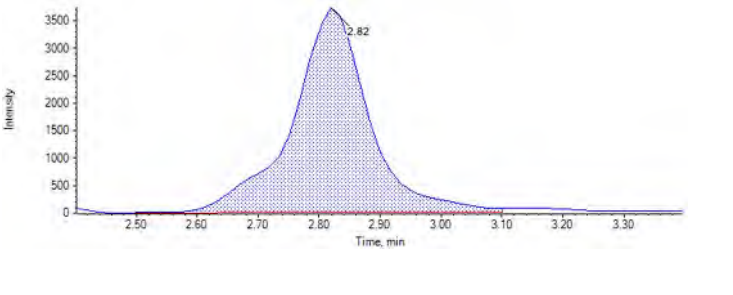
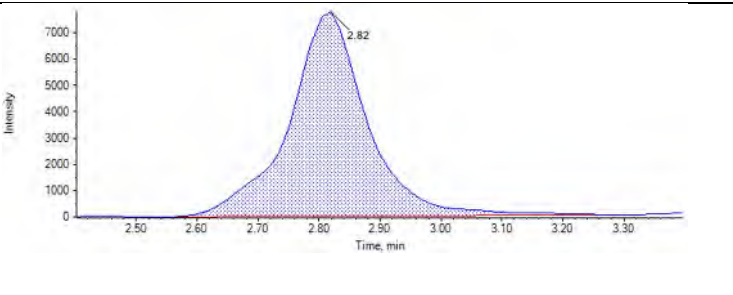
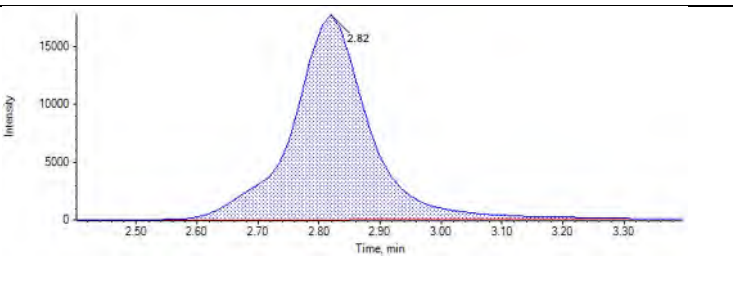
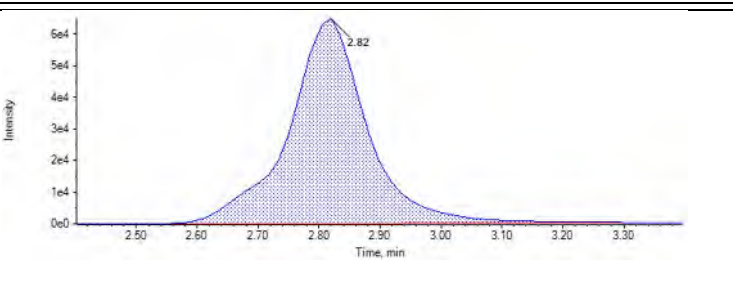
Samples:

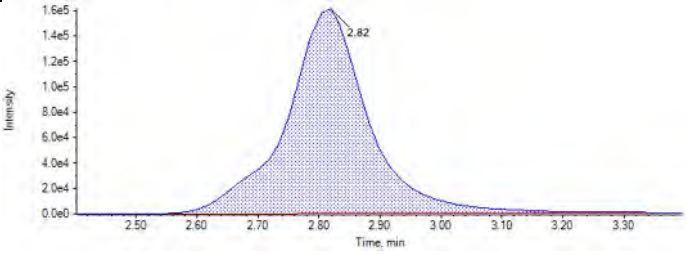
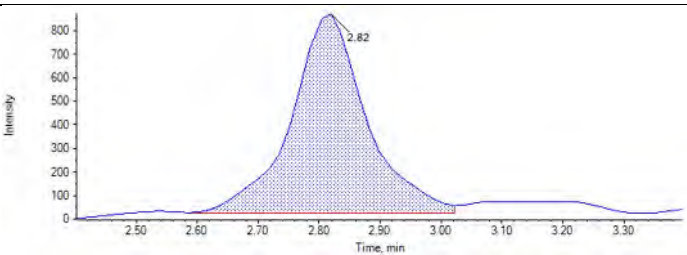
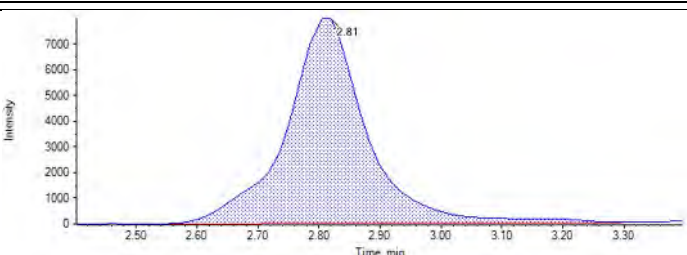
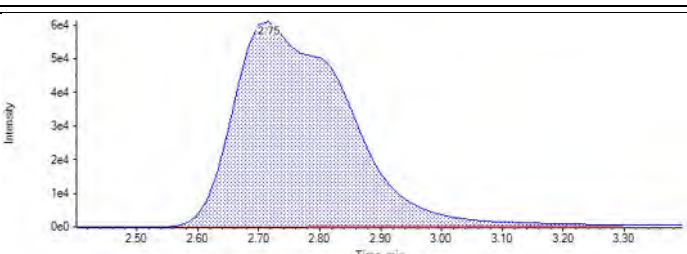
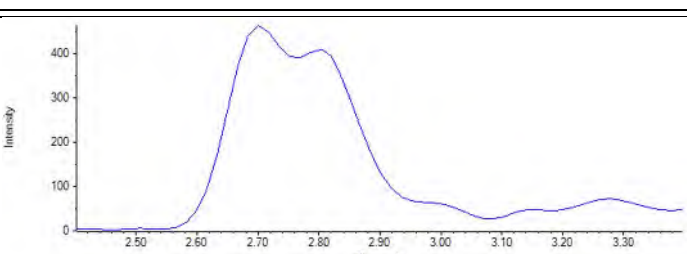
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2910	2.83	10230	25.00000	63.275250	253
JU05	Standard	3/29/2018 7:57:30 PM	5074	2.82	10940	50.00000	84.436461	169
JU06	Standard	3/29/2018 8:08:16 PM	7588	2.83	10200	100.00000	117.551175	118
JU07	Standard	3/29/2018 8:19:03 PM	14895	2.82	6608	250.00000	295.943528	118
JU08	Standard	3/29/2018 8:29:49 PM	32306	2.82	9368	500.00000	437.015734	87
JU09	Standard	3/29/2018 8:40:36 PM	69047	2.82	8784	1000.00000	958.233277	96
JU10	Standard	3/29/2018 8:51:22 PM	154637	2.82	9198	2500.00000	2015.638374	81
JU11	Standard	3/29/2018 9:02:09 PM	581538	2.82	7240	10000.00000	9518.262901	95
JU12	Standard	3/29/2018 9:12:55 PM	1507723	2.82	8490	20000.00000	21007.355010	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	7259	2.82	10080	N/A	114.767910	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	73269	2.81	9028	1000.00000	988.307155	99
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	788716	2.75	8506	N/A	10982.939075	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	3003	2.79	5541	N/A	93.679267	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	160894	2.81	8368	N/A	2300.975770	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1166	2.80	7093	N/A	49.081805	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	6436	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	9315	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	70741	2.81	9371	1000.00000	921.335822	92

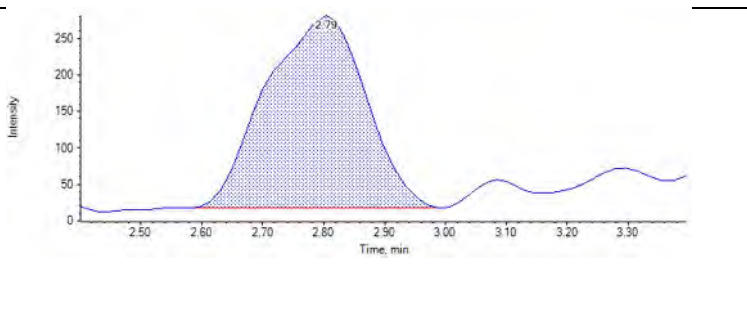
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 63.275250 ng/L</p> <p>Area: 2910.397605</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 84.436461 ng/L</p> <p>Area: 5073.962457</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 117.551175 ng/L</p> <p>Area: 7588.339269</p> <p>Modified: (False)</p>	

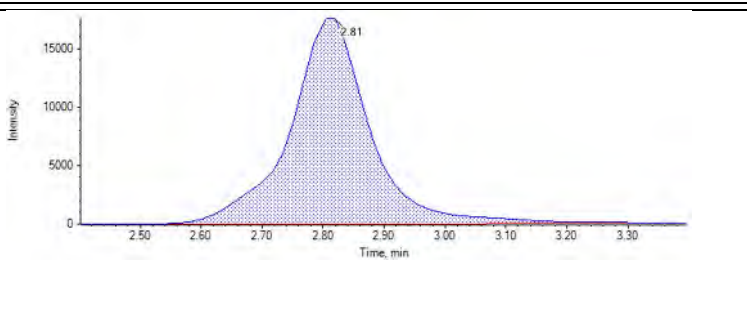
<p>JU07</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 295.943528 ng/L</p> <p>Area: 14895.485261</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 437.015734 ng/L</p> <p>Area: 32306.228096</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 958.233277 ng/L</p> <p>Area: 69046.670069</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 2015.638374 ng/L</p> <p>Area: 154637.375683</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 9518.262901 ng/L</p> <p>Area: 581537.513470</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 21007.355010 ng/L</p> <p>Area: 1507723.156149</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 114.767910 ng/L</p> <p>Area: 7259.318875</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 988.307155 ng/L</p> <p>Area: 73269.037455</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.75 (2.80) min</p> <p>Calculated Conc: 10982.939075 ng/L</p> <p>Area: 788715.699171</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

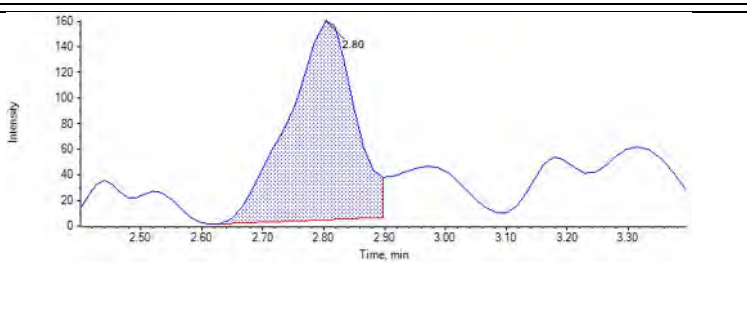
CQ350PB-FS(3)
 RT (Exp. RT): 2.79 (2.80) min
 Calculated Conc: 93.679267 ng/L
 Area: 3002.760857
 Modified: (False)



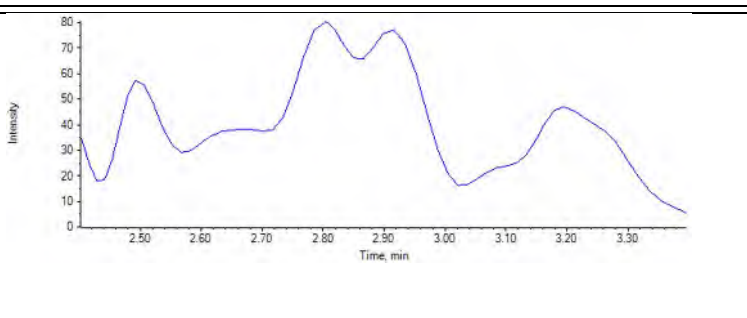
CQ351LCS-FS(3)
 RT (Exp. RT): 2.81 (2.80) min
 Calculated Conc: 2300.975770 ng/L
 Area: 160894.103148
 Modified: (False)



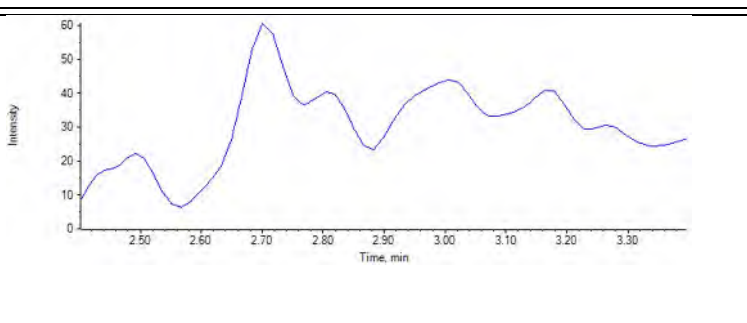
J5386-FS(3)
 RT (Exp. RT): 2.80 (2.80) min
 Calculated Conc: 49.081805 ng/L
 Area: 1166.121020
 Modified: (False)



J5391-FS(3)
 RT (Exp. RT): N/A (2.80) min
 Calculated Conc: N/A ng/L
 Area: N/A
 Modified: (True)

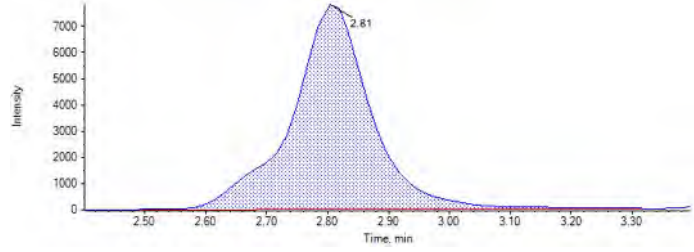


J5393-FS(3)
 RT (Exp. RT): N/A (2.80) min
 Calculated Conc: N/A ng/L
 Area: N/A
 Modified: (True)



JU09 CCV

RT (Exp. RT): 2.81 (2.80) min
Calculated Conc: 921.335822 ng/L
Area: 70740.563216
Modified: (False)



Analyte: PFDA_1 (513.0 / 469.0)

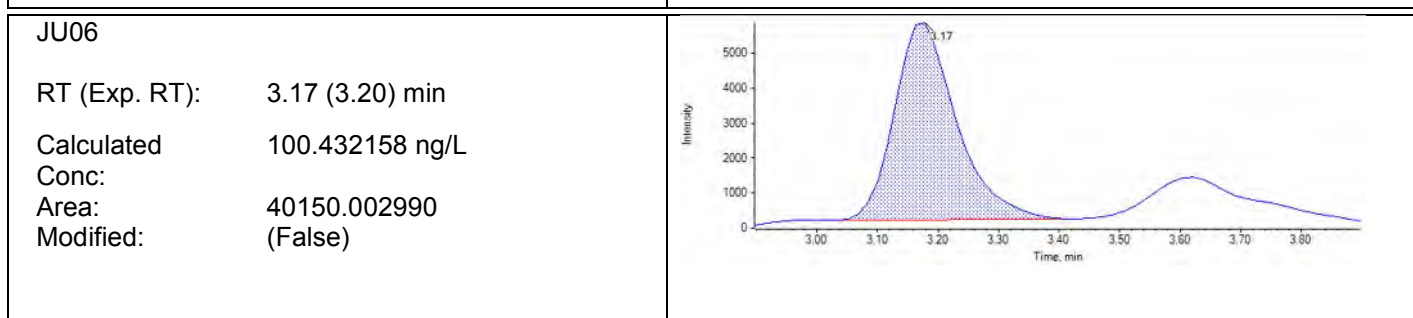
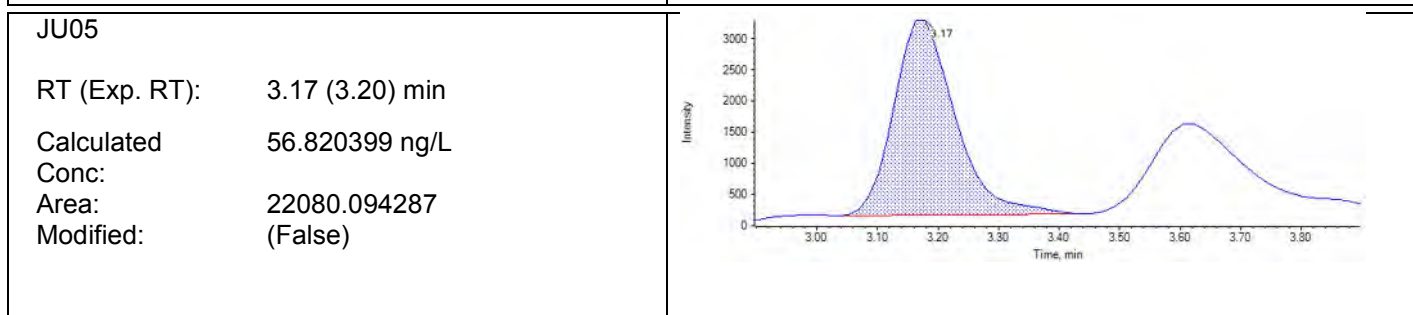
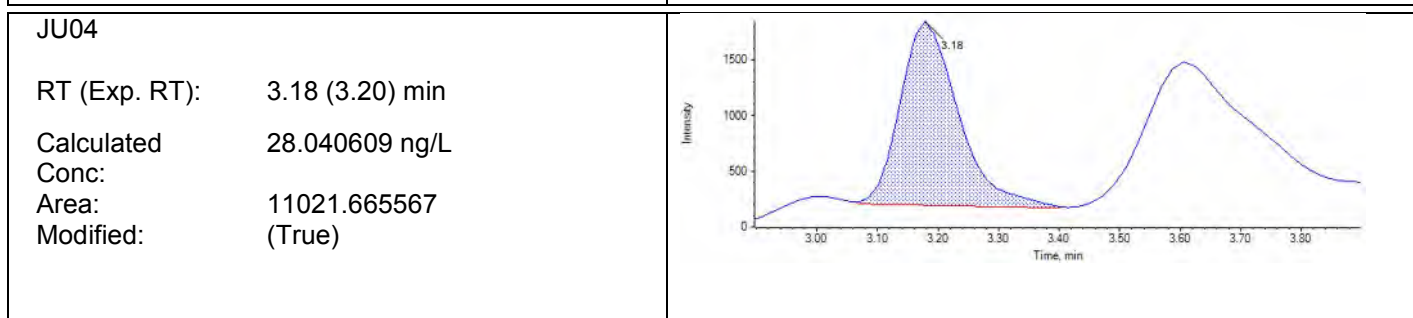
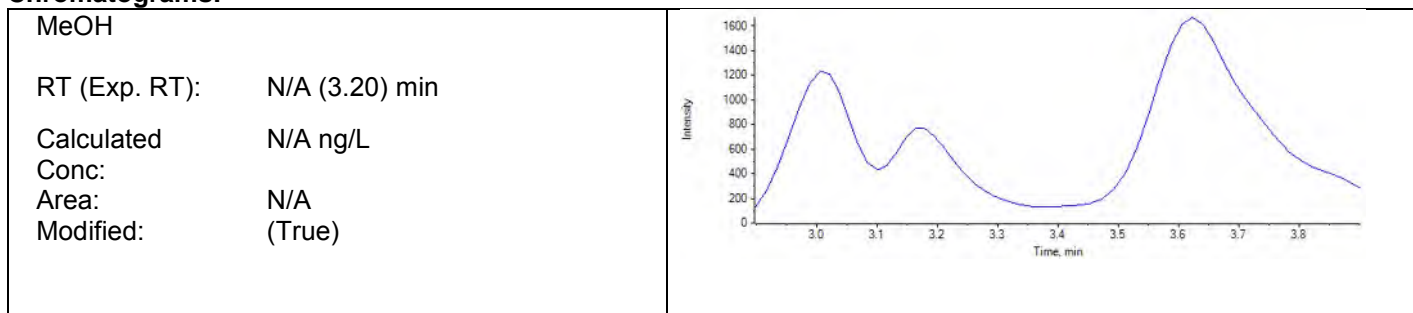
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

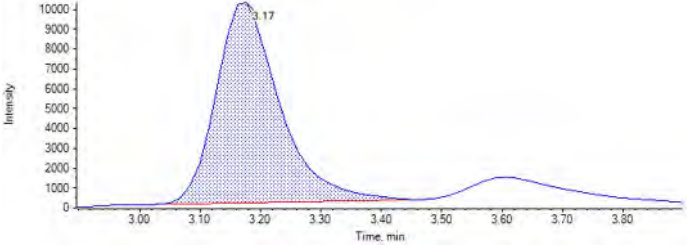
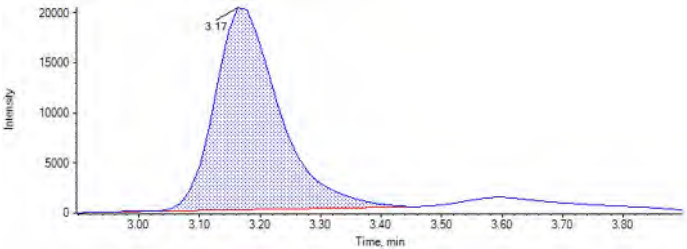
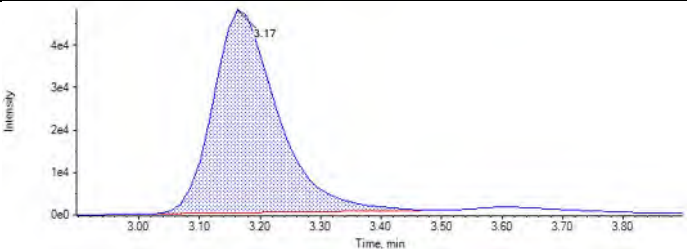
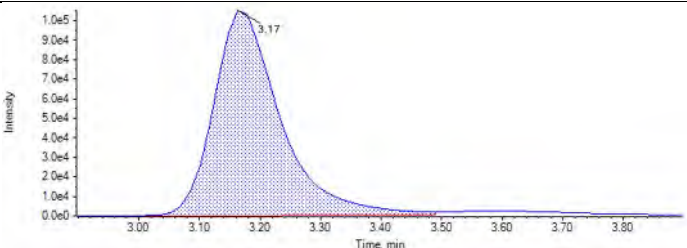
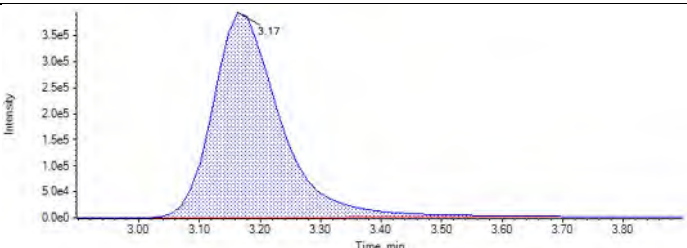
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11022	3.18	43400	25.00000	28.040609	112
JU05	Standard	3/29/2018 7:57:30 PM	22080	3.17	41780	50.00000	56.820399	114
JU06	Standard	3/29/2018 8:08:16 PM	40150	3.17	42500	100.00000	100.432158	100
JU07	Standard	3/29/2018 8:19:03 PM	73789	3.17	32880	250.00000	236.632413	95
JU08	Standard	3/29/2018 8:29:49 PM	150245	3.17	35890	500.00000	440.166212	88
JU09	Standard	3/29/2018 8:40:36 PM	354098	3.17	39130	1000.00000	949.920008	95
JU10	Standard	3/29/2018 8:51:22 PM	803678	3.17	37180	2500.00000	2267.160024	91
JU11	Standard	3/29/2018 9:02:09 PM	3075773	3.17	30040	10000.00000	10734.171405	107
JU12	Standard	3/29/2018 9:12:55 PM	7708727	3.17	41200	20000.00000	19611.656773	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	36346	3.17	45770	N/A	84.662299	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	357714	3.16	44230	1000.00000	849.143649	85
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	41500	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	5219	3.17	26830	N/A	21.809575	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	845406	3.16	35950	N/A	2466.252781	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	5616	3.16	26970	N/A	23.246970	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	30370	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	37520	N/A	N/A	N/A

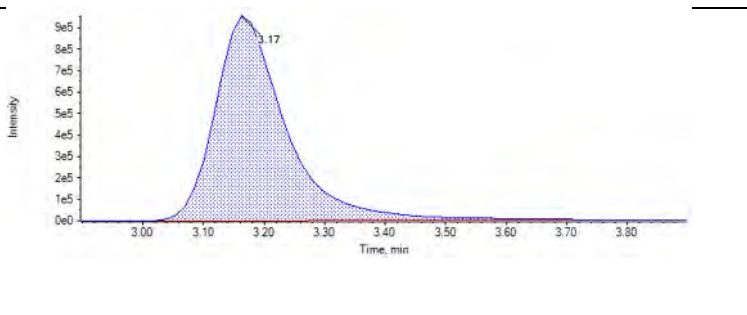
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	358243	3.16	42290	1000.00000	889.404343	89

Chromatograms:

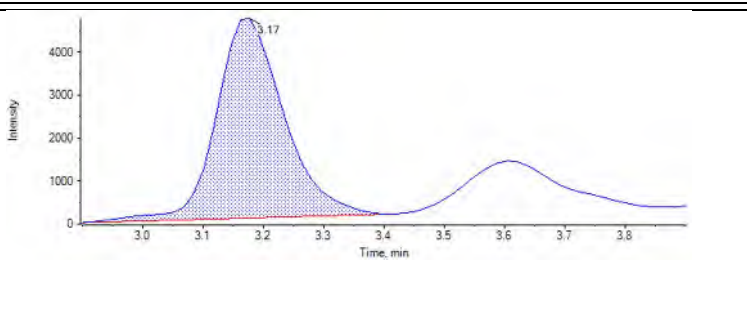


<p>JU07</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 236.632413 ng/L</p> <p>Area: 73789.415675</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 440.166212 ng/L</p> <p>Area: 150244.587902</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 949.920008 ng/L</p> <p>Area: 354098.002542</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 2267.160024 ng/L</p> <p>Area: 803677.625097</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 10734.171405 ng/L</p> <p>Area: 3075773.427296</p> <p>Modified: (False)</p>	

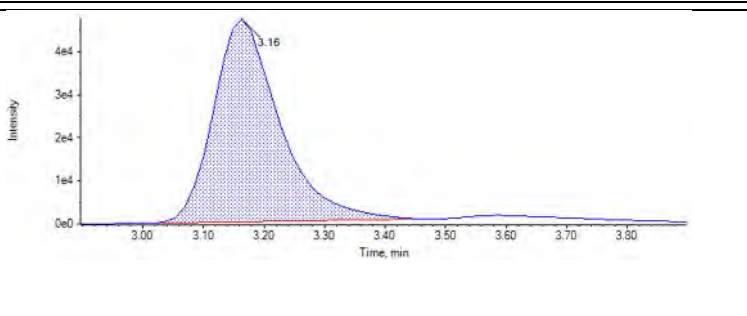
JU12	
RT (Exp. RT):	3.17 (3.20) min
Calculated Conc:	19611.656773 ng/L
Area:	7708726.554171
Modified:	(False)



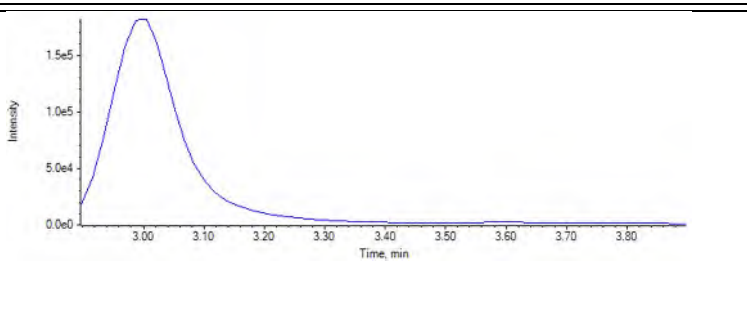
JP83 IB	
RT (Exp. RT):	3.17 (3.20) min
Calculated Conc:	84.662299 ng/L
Area:	36345.542466
Modified:	(False)



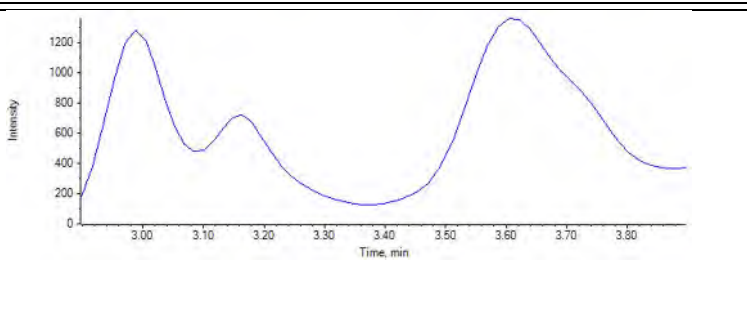
JU13 ICC	
RT (Exp. RT):	3.16 (3.20) min
Calculated Conc:	849.143649 ng/L
Area:	357714.479454
Modified:	(False)



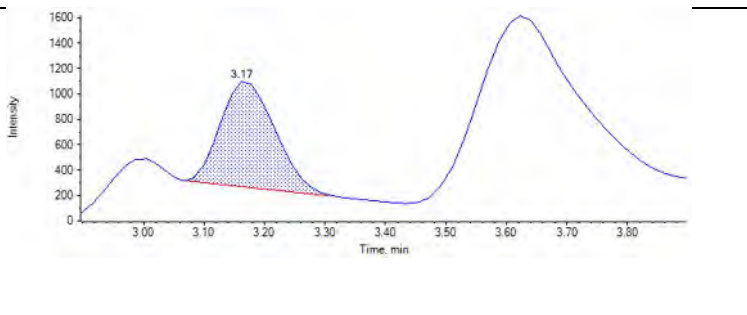
JU38 Branch	
RT (Exp. RT):	N/A (3.20) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



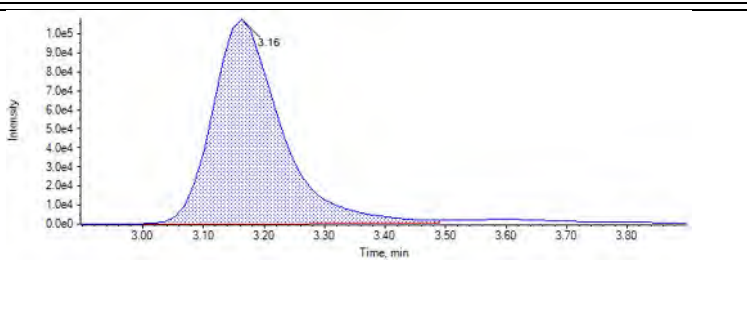
MeOH	
RT (Exp. RT):	N/A (3.20) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



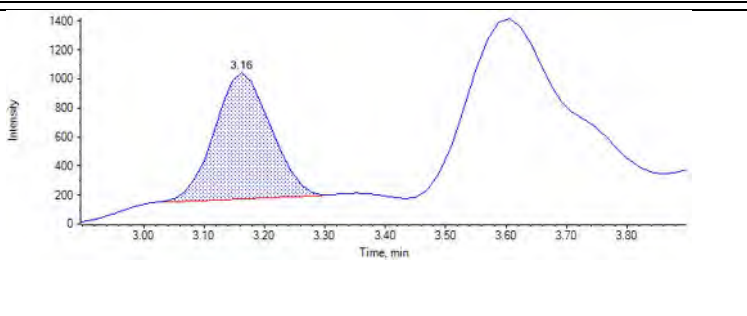
CQ350PB-FS(3)	
RT (Exp. RT):	3.17 (3.20) min
Calculated Conc:	21.809575 ng/L
Area:	5219.124472
Modified:	(True)



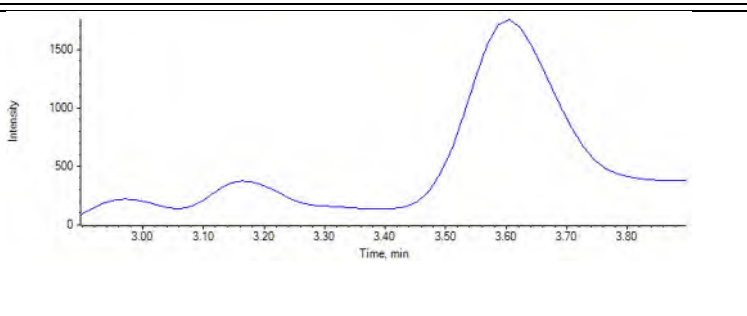
CQ351LCS-FS(3)	
RT (Exp. RT):	3.16 (3.20) min
Calculated Conc:	2466.252781 ng/L
Area:	845406.279747
Modified:	(False)



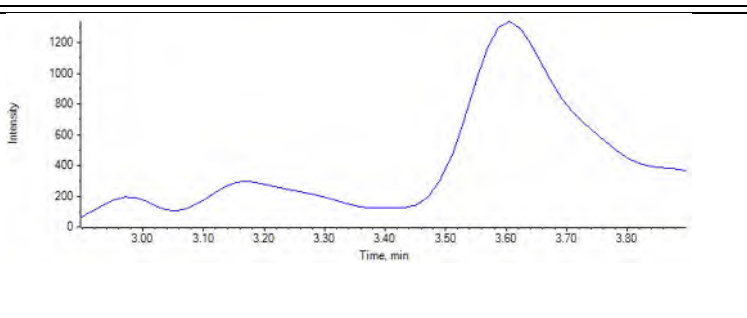
J5386-FS(3)	
RT (Exp. RT):	3.16 (3.20) min
Calculated Conc:	23.246970 ng/L
Area:	5616.226292
Modified:	(True)



J5391-FS(3)	
RT (Exp. RT):	N/A (3.20) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

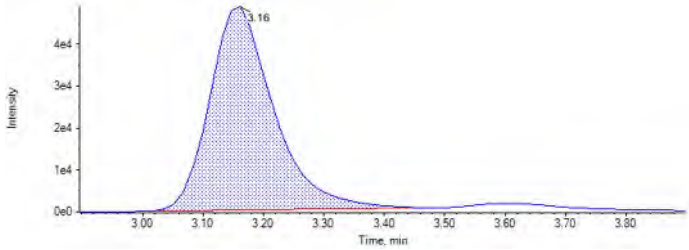


J5393-FS(3)	
RT (Exp. RT):	N/A (3.20) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



JU09 CCV

RT (Exp. RT): 3.16 (3.20) min
Calculated Conc: 889.404343 ng/L
Area: 358242.959103
Modified: (False)



Analyte: PFDA_2 (513.0 / 219.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

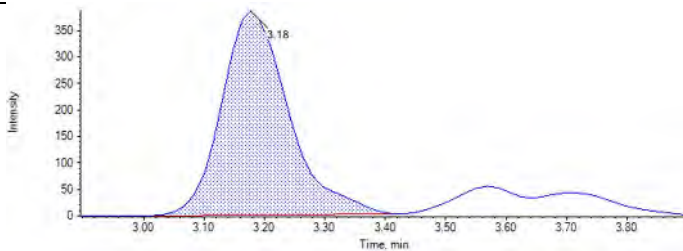
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	417	3.17	43400	25.00000	29.579582	118
JU05	Standard	3/29/2018 7:57:30 PM	767	3.18	41780	50.00000	51.481084	103
JU06	Standard	3/29/2018 8:08:16 PM	1933	3.17	42500	100.00000	119.405501	119
JU07	Standard	3/29/2018 8:19:03 PM	2961	3.18	32880	250.00000	230.976769	92
JU08	Standard	3/29/2018 8:29:49 PM	5556	3.17	35890	500.00000	393.053118	79
JU09	Standard	3/29/2018 8:40:36 PM	13892	3.17	39130	1000.00000	894.428545	89
JU10	Standard	3/29/2018 8:51:22 PM	33859	3.17	37180	2500.00000	2285.723319	91
JU11	Standard	3/29/2018 9:02:09 PM	132713	3.17	30040	10000.00000	11067.824617	111
JU12	Standard	3/29/2018 9:12:55 PM	318375	3.17	41200	20000.00000	19352.527464	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1755	3.17	45770	N/A	101.555028	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	14031	3.16	44230	1000.00000	799.829109	80
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	41500	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	520	3.17	26830	N/A	54.036498	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	33763	3.17	35950	N/A	2356.999588	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	26970	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	30370	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	37520	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	14521	3.16	42290	1000.00000	865.341070	87

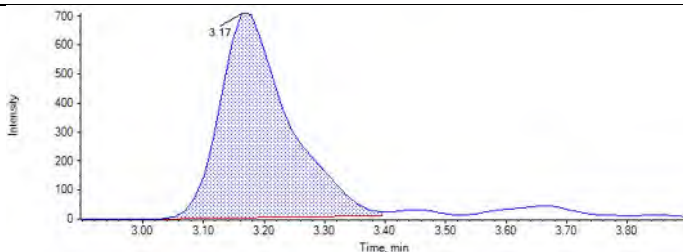
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 29.579582 ng/L</p> <p>Area: 417.073823</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 51.481084 ng/L</p> <p>Area: 766.903571</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 119.405501 ng/L</p> <p>Area: 1933.328324</p> <p>Modified: (False)</p>	

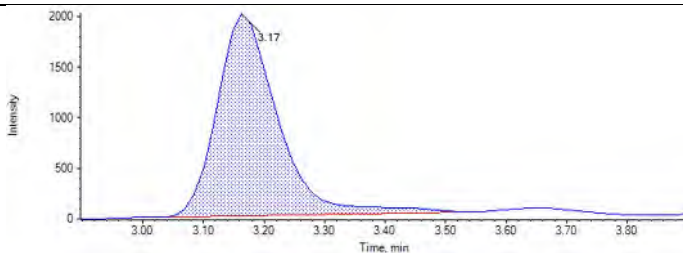
JU07
RT (Exp. RT): 3.18 (3.20) min
Calculated Conc: 230.976769 ng/L
Area: 2960.943791
Modified: (False)



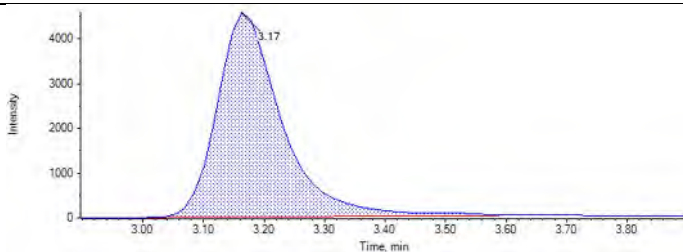
JU08
RT (Exp. RT): 3.17 (3.20) min
Calculated Conc: 393.053118 ng/L
Area: 5555.513956
Modified: (False)



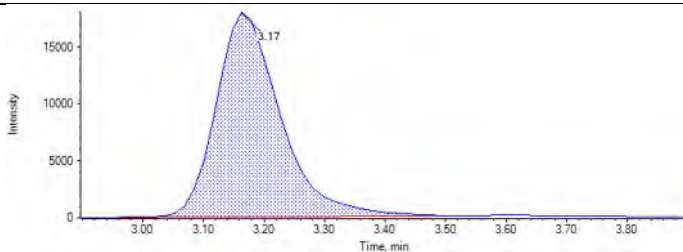
JU09
RT (Exp. RT): 3.17 (3.20) min
Calculated Conc: 894.428545 ng/L
Area: 13892.190146
Modified: (False)



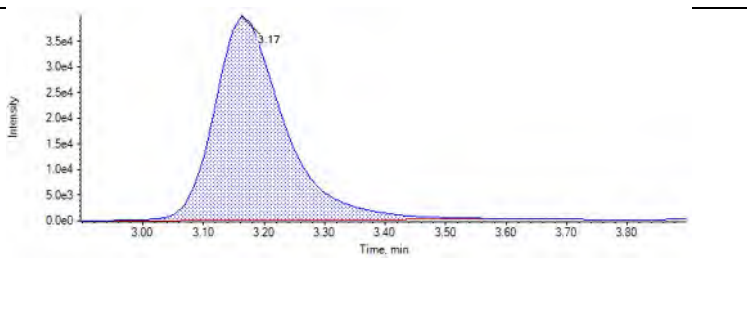
JU10
RT (Exp. RT): 3.17 (3.20) min
Calculated Conc: 2285.723319 ng/L
Area: 33858.812091
Modified: (False)



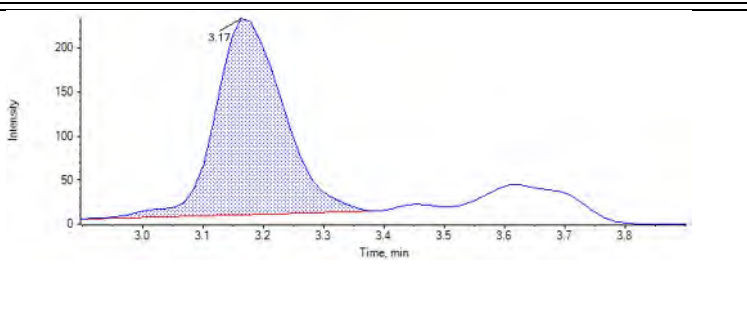
JU11
RT (Exp. RT): 3.17 (3.20) min
Calculated Conc: 11067.824617 ng/L
Area: 132713.359826
Modified: (False)



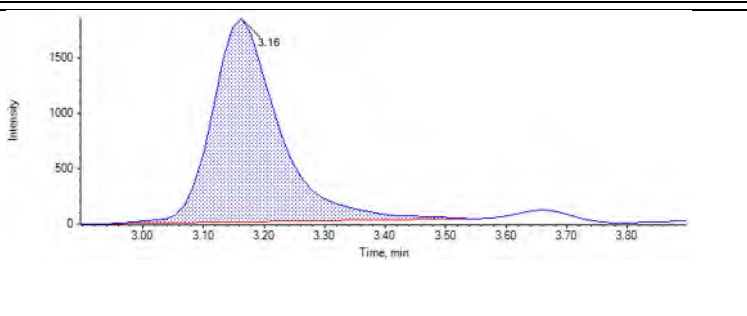
JU12	
RT (Exp. RT):	3.17 (3.20) min
Calculated Conc:	19352.527464 ng/L
Area:	318375.249722
Modified:	(False)



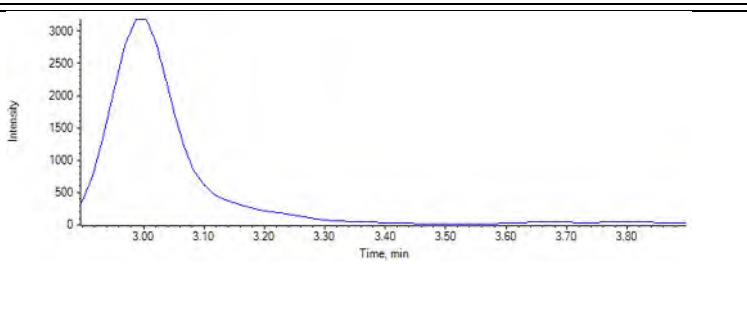
JP83 IB	
RT (Exp. RT):	3.17 (3.20) min
Calculated Conc:	101.555028 ng/L
Area:	1755.414034
Modified:	(False)



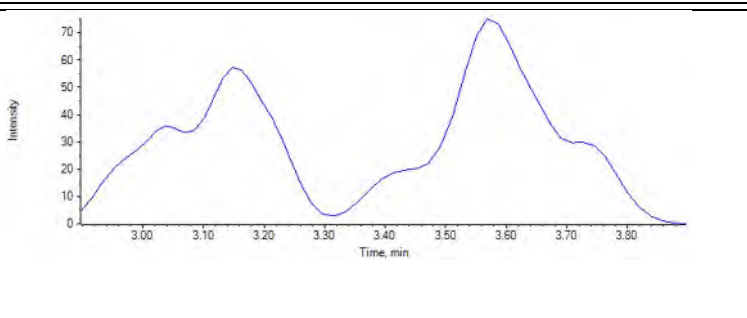
JU13 ICC	
RT (Exp. RT):	3.16 (3.20) min
Calculated Conc:	799.829109 ng/L
Area:	14031.350998
Modified:	(False)

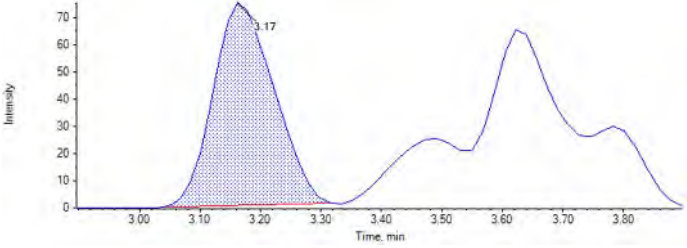
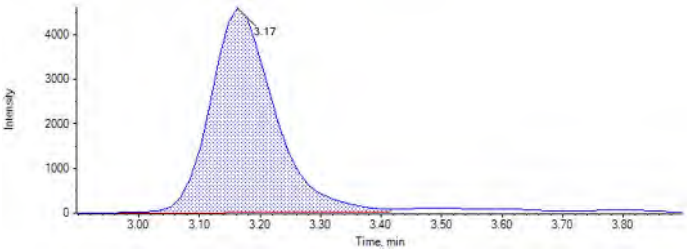
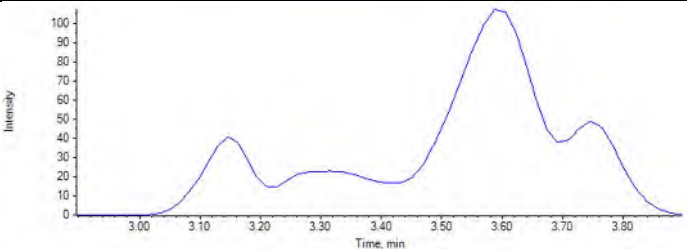
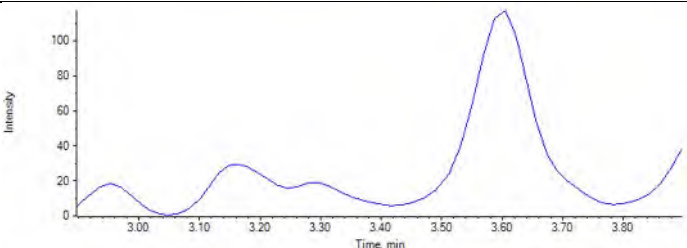
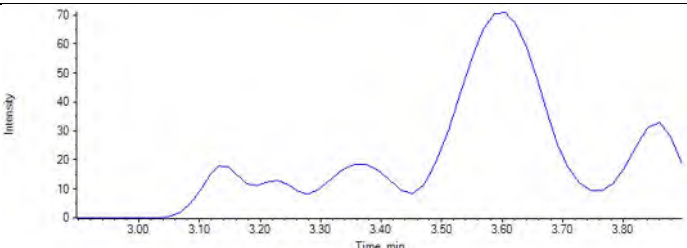


JU38 Branch	
RT (Exp. RT):	N/A (3.20) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



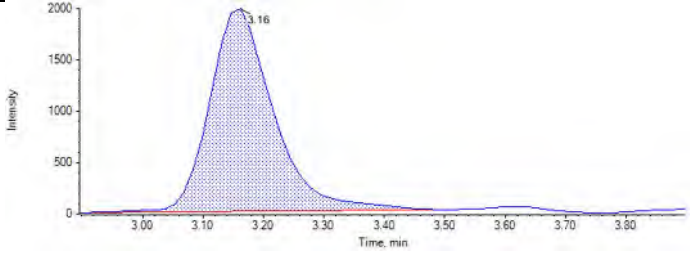
MeOH	
RT (Exp. RT):	N/A (3.20) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 54.036498 ng/L</p> <p>Area: 519.918544</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 2356.999588 ng/L</p> <p>Area: 33763.351076</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.16 (3.20) min
Calculated Conc: 865.341070 ng/L
Area: 14521.383585
Modified: (False)



Analyte: PFUnA_1 (563.0 / 519.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

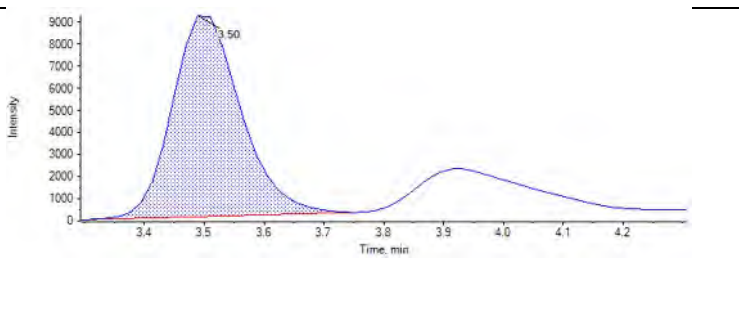
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	12006	3.50	43240	25.00000	27.809396	111
JU05	Standard	3/29/2018 7:57:30 PM	20347	3.50	46120	50.00000	46.031071	92
JU06	Standard	3/29/2018 8:08:16 PM	43532	3.50	44700	100.00000	105.355956	105
JU07	Standard	3/29/2018 8:19:03 PM	72786	3.50	33530	250.00000	238.674628	95
JU08	Standard	3/29/2018 8:29:49 PM	147864	3.50	36280	500.00000	450.845153	90
JU09	Standard	3/29/2018 8:40:36 PM	357974	3.50	40220	1000.00000	988.413322	99
JU10	Standard	3/29/2018 8:51:22 PM	783332	3.50	33220	2500.00000	2623.811311	105
JU11	Standard	3/29/2018 9:02:09 PM	3016899	3.50	32180	10000.00000	10438.270677	104
JU12	Standard	3/29/2018 9:12:55 PM	7753792	3.50	44270	20000.00000	19505.788484	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	32109	3.50	43000	N/A	80.067917	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	368407	3.49	42650	1000.00000	959.023413	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	44770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	27700	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	852075	3.49	39910	N/A	2375.197007	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	7946	3.49	26690	N/A	30.041740	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	31750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	39030	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	349460	3.48	38930	1000.00000	996.747659	100

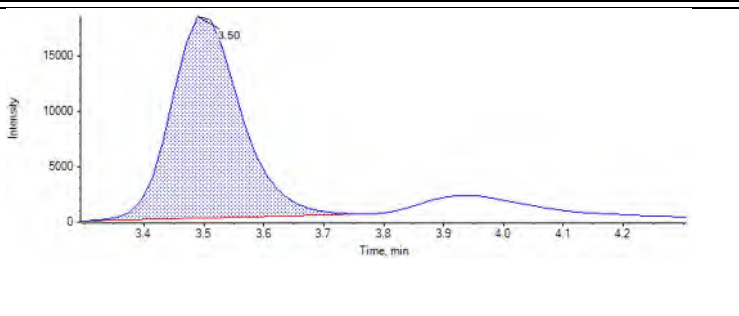
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 27.809396 ng/L</p> <p>Area: 12005.840971</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 46.031071 ng/L</p> <p>Area: 20346.934042</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 105.355956 ng/L</p> <p>Area: 43531.677168</p> <p>Modified: (False)</p>	

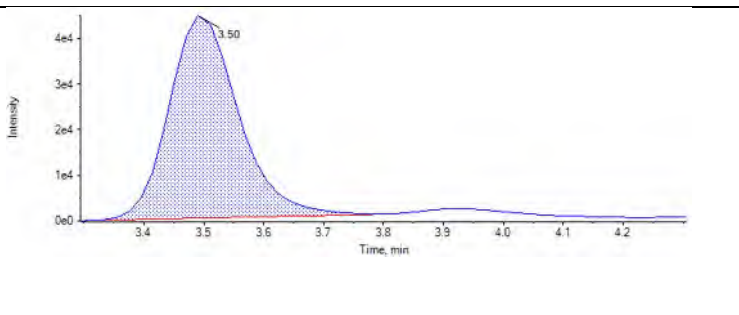
JU07
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 238.674628 ng/L
Area: 72785.952894
Modified: (False)



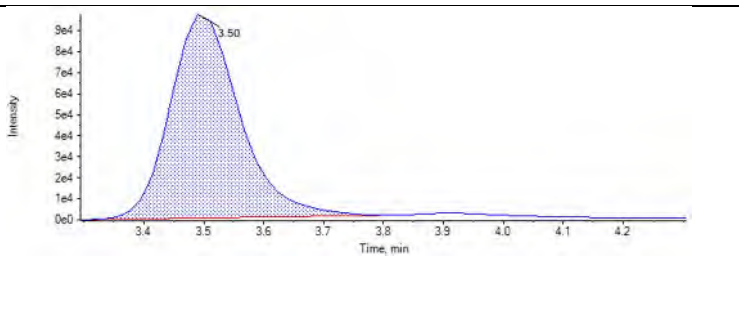
JU08
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 450.845153 ng/L
Area: 147864.225377
Modified: (False)



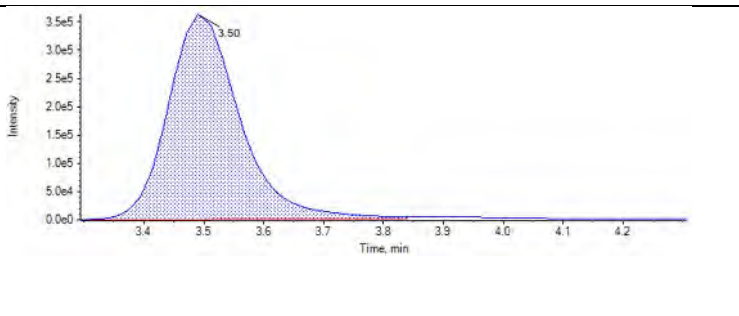
JU09
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 988.413322 ng/L
Area: 357974.121892
Modified: (False)

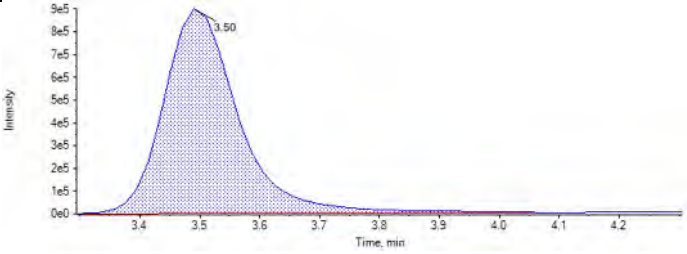
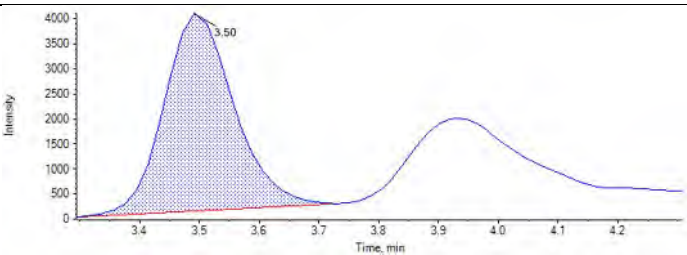
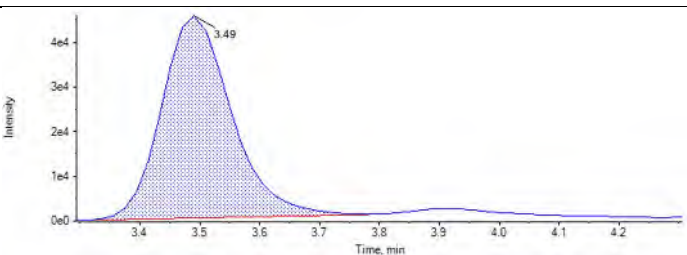
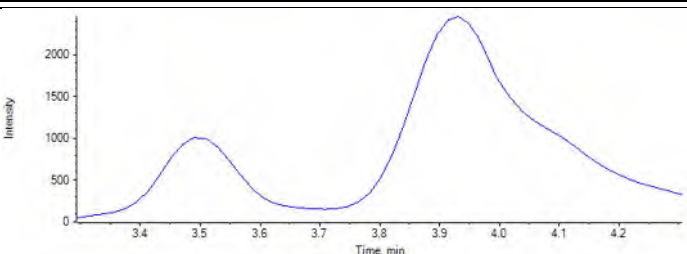
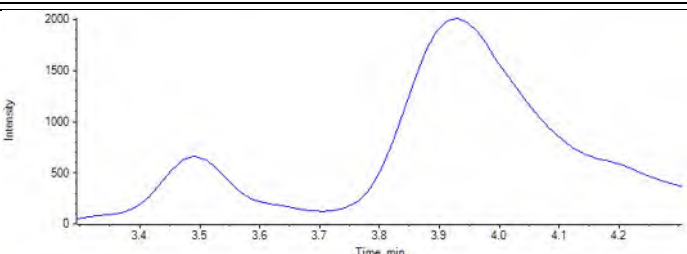


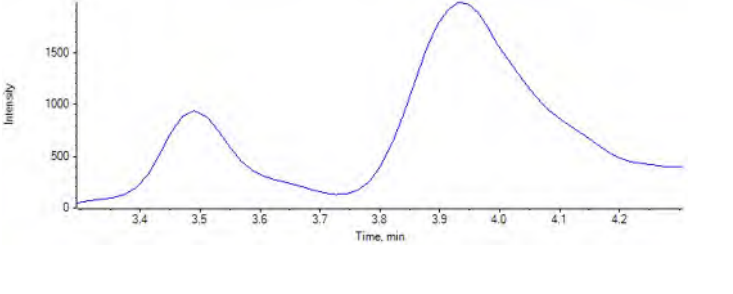
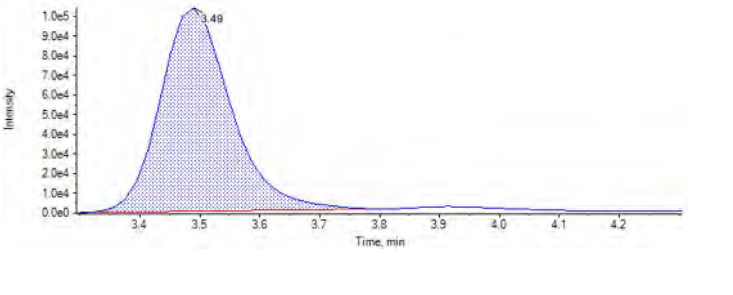
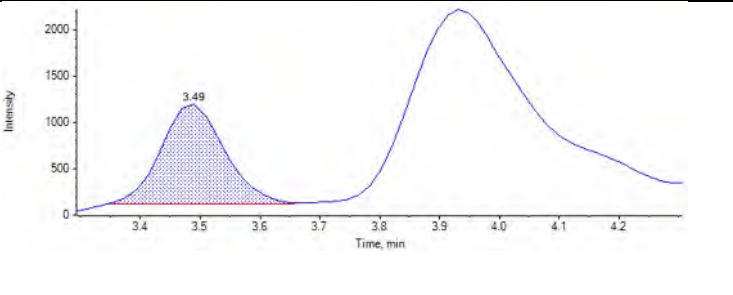
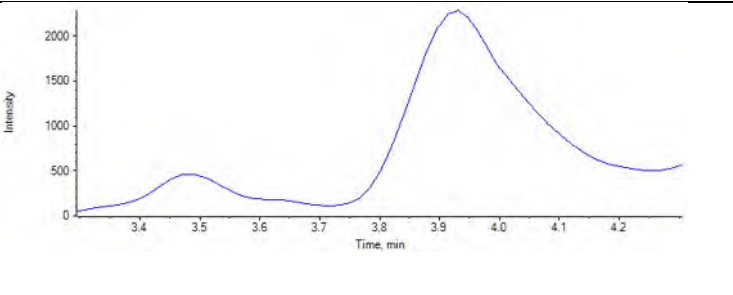
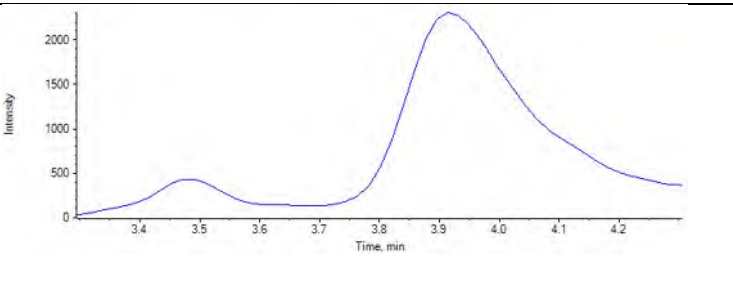
JU10
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 2623.811311 ng/L
Area: 783331.746688
Modified: (False)



JU11
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 10438.270677 ng/L
Area: 3016899.046272
Modified: (False)

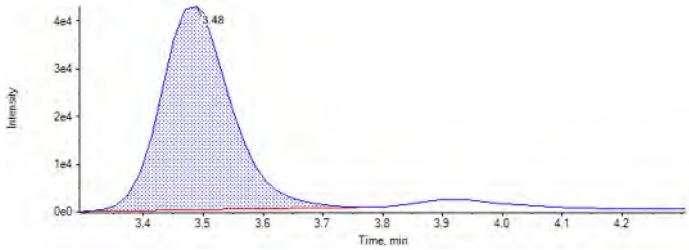


<p>JU12</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 19505.788484 ng/L</p> <p>Area: 7753792.010399</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 80.067917 ng/L</p> <p>Area: 32109.305802</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 959.023413 ng/L</p> <p>Area: 368407.185929</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 2375.197007 ng/L</p> <p>Area: 852074.977509</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 30.041740 ng/L</p> <p>Area: 7945.932917</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.48 (3.50) min
Calculated Conc: 996.747659 ng/L
Area: 349459.869606
Modified: (False)



Analyte: PFUnA_2 (563.0 / 269.0)

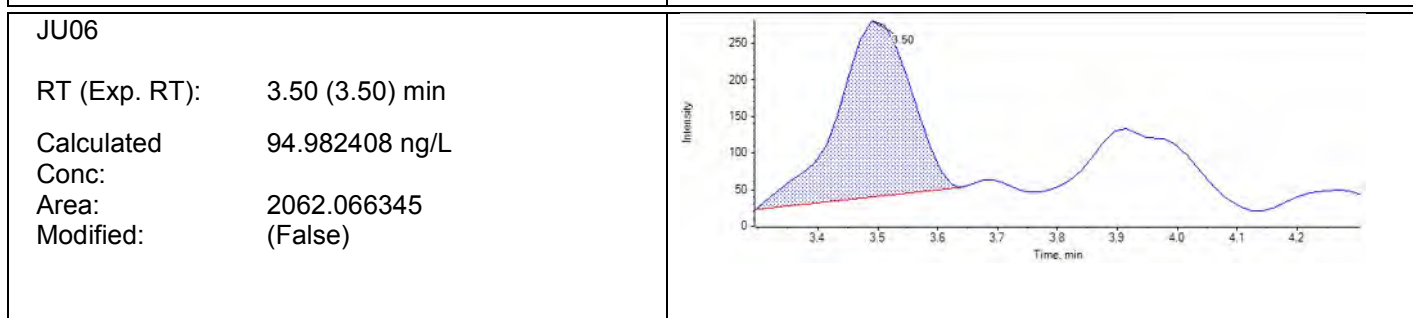
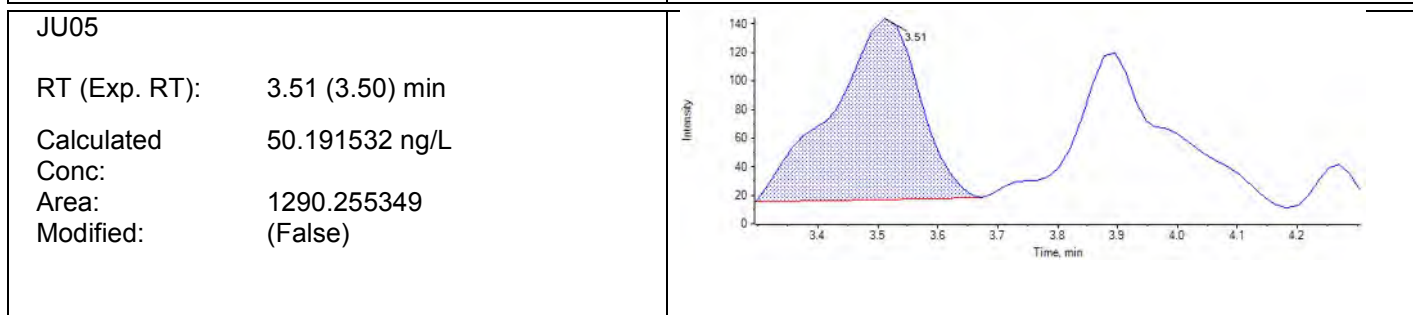
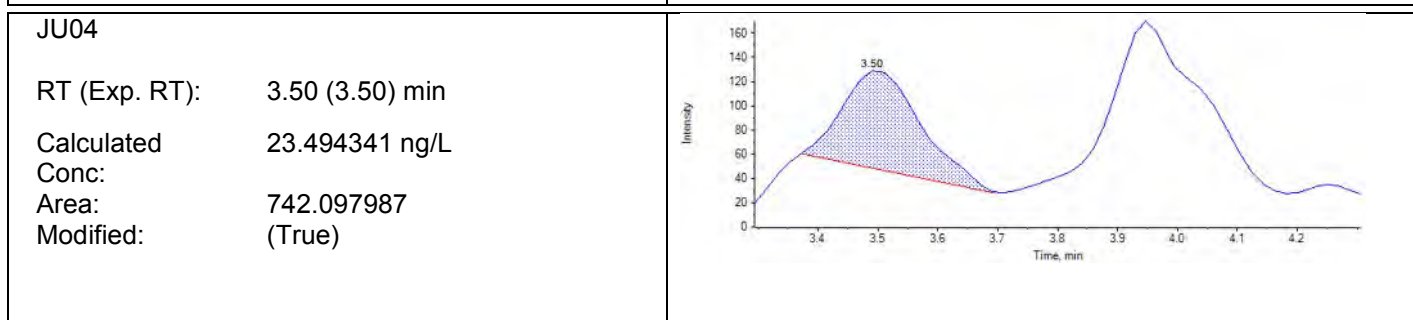
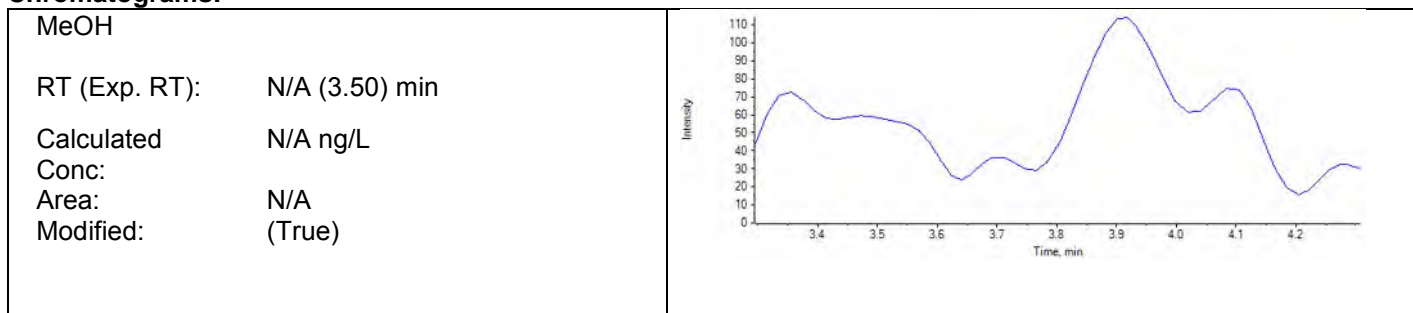
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

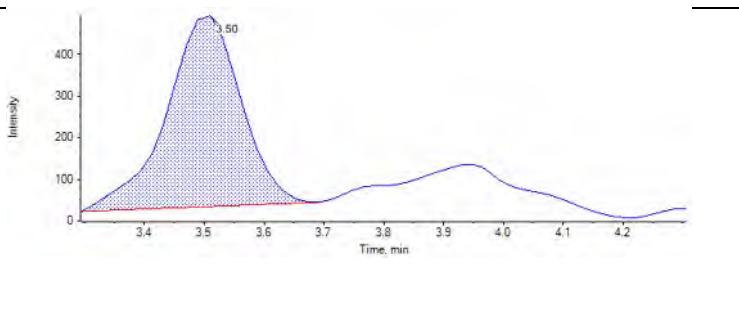
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	742	3.50	43240	25.00000	23.494341	94
JU05	Standard	3/29/2018 7:57:30 PM	1290	3.51	46120	50.00000	50.191532	100
JU06	Standard	3/29/2018 8:08:16 PM	2062	3.50	44700	100.00000	94.982408	95
JU07	Standard	3/29/2018 8:19:03 PM	3976	3.50	33530	250.00000	273.739324	110
JU08	Standard	3/29/2018 8:29:49 PM	7421	3.50	36280	500.00000	485.919754	97
JU09	Standard	3/29/2018 8:40:36 PM	17204	3.50	40220	1000.00000	1036.888823	104
JU10	Standard	3/29/2018 8:51:22 PM	33552	3.50	33220	2500.00000	2473.998299	99
JU11	Standard	3/29/2018 9:02:09 PM	134312	3.49	32180	10000.00000	10279.948544	103
JU12	Standard	3/29/2018 9:12:55 PM	353848	3.49	44270	20000.00000	19705.836976	99
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2046	3.49	43000	N/A	98.588108	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	16920	3.49	42650	1000.00000	960.150869	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	44770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	27700	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	38554	3.49	39910	N/A	2365.335382	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	26690	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	31750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	39030	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	15783	3.48	38930	1000.00000	981.654416	98

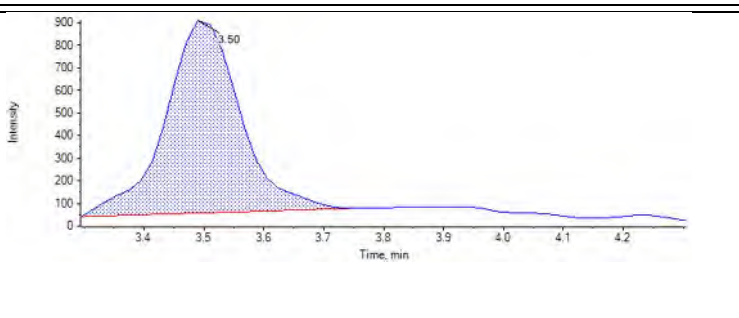
Chromatograms:



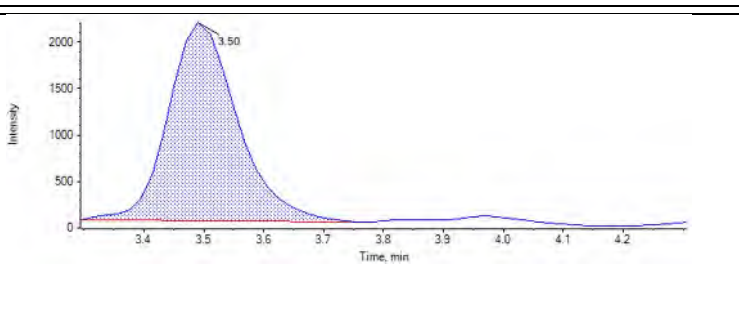
JU07
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 273.739324 ng/L
Area: 3975.582307
Modified: (False)



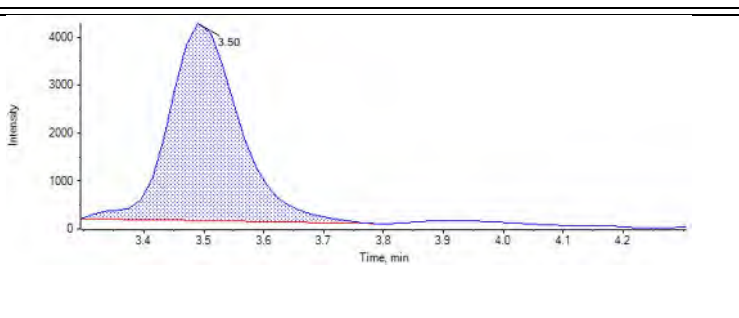
JU08
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 485.919754 ng/L
Area: 7421.095789
Modified: (False)



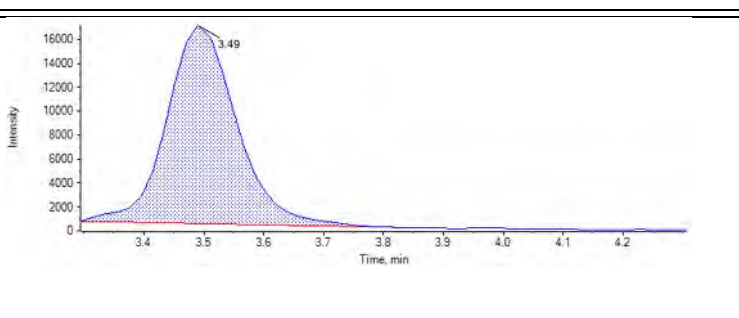
JU09
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 1036.888823 ng/L
Area: 17204.024506
Modified: (False)

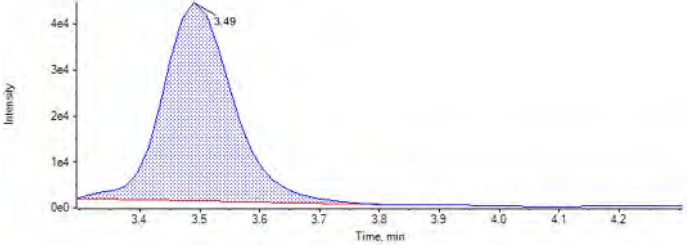
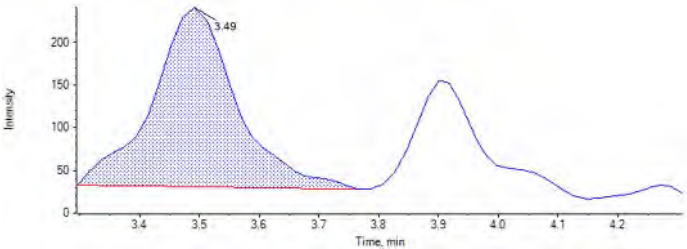
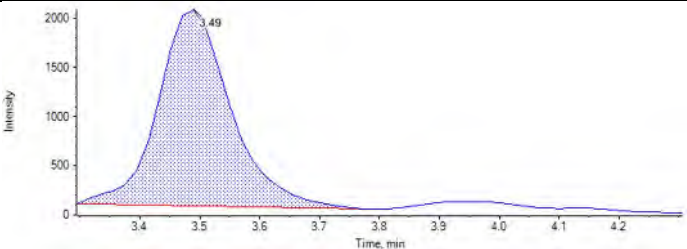
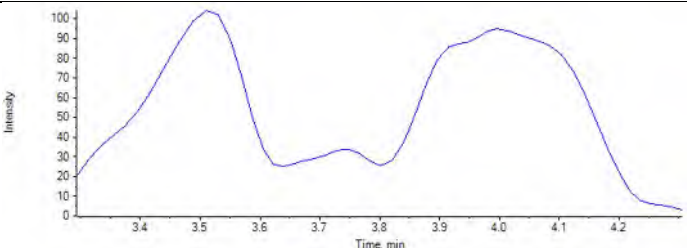
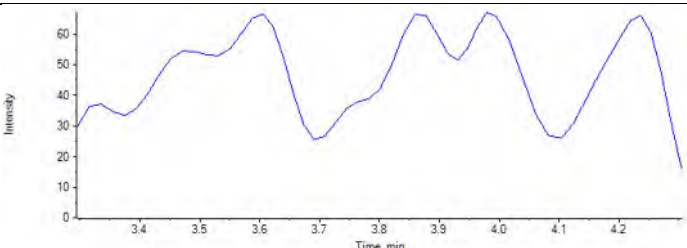


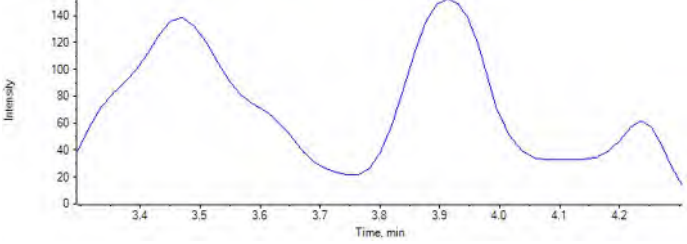
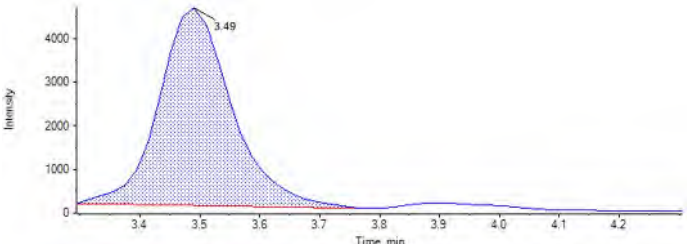
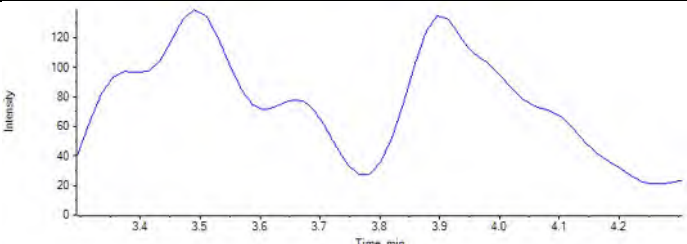
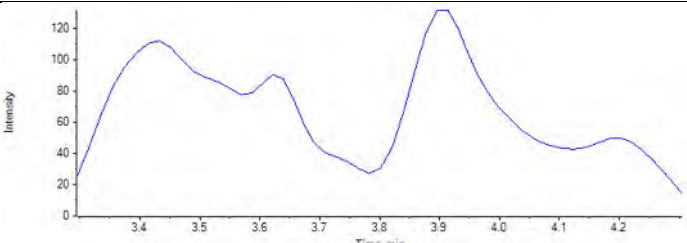
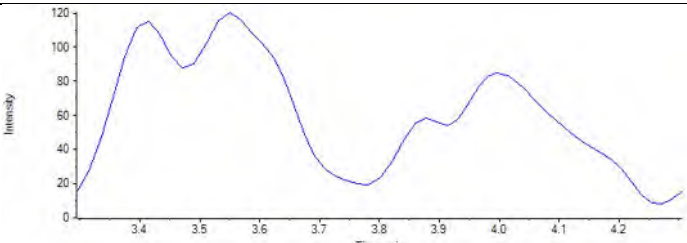
JU10
RT (Exp. RT): 3.50 (3.50) min
Calculated Conc: 2473.998299 ng/L
Area: 33552.086479
Modified: (False)



JU11
RT (Exp. RT): 3.49 (3.50) min
Calculated Conc: 10279.948544 ng/L
Area: 134311.853538
Modified: (False)

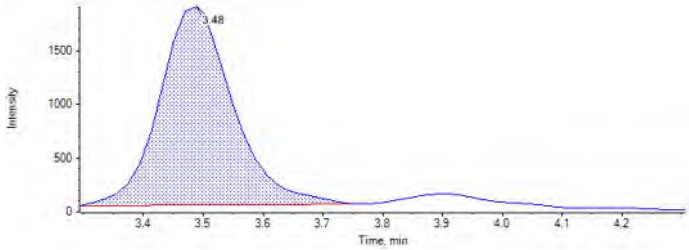


<p>JU12</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 19705.836976 ng/L</p> <p>Area: 353847.750844</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 98.588108 ng/L</p> <p>Area: 2046.201691</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 960.150869 ng/L</p> <p>Area: 16920.019507</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 2365.335382 ng/L</p> <p>Area: 38554.482624</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.48 (3.50) min
Calculated Conc: 981.654416 ng/L
Area: 15783.494845
Modified: (False)



Analyte: PFD0A_1 (613.0 / 569.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

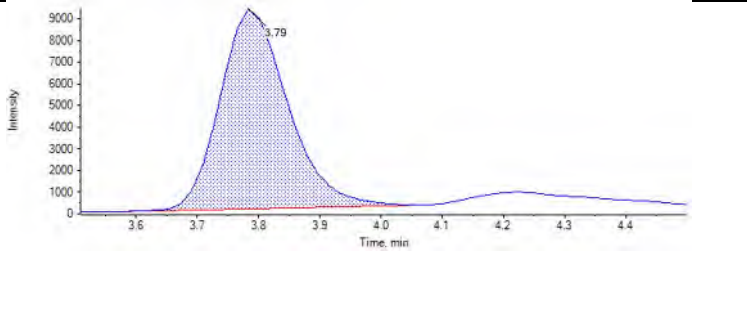
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	13275	3.79	43660	25.00000	18.585863	74
JU05	Standard	3/29/2018 7:57:30 PM	22046	3.79	45030	50.00000	43.934838	88
JU06	Standard	3/29/2018 8:08:16 PM	39377	3.79	44900	100.00000	96.867204	97
JU07	Standard	3/29/2018 8:19:03 PM	71102	3.79	36780	250.00000	241.211483	96
JU08	Standard	3/29/2018 8:29:49 PM	140858	3.79	35310	500.00000	522.164732	104
JU09	Standard	3/29/2018 8:40:36 PM	352371	3.78	40800	1000.00000	1157.206023	116
JU10	Standard	3/29/2018 8:51:22 PM	808937	3.78	35240	2500.00000	3113.816575	125
JU11	Standard	3/29/2018 9:02:09 PM	3064308	3.78	39000	10000.00000	10714.559444	107
JU12	Standard	3/29/2018 9:12:55 PM	8041132	3.78	59270	20000.00000	18516.653838	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	33169	3.78	45140	N/A	77.443091	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	347764	3.78	42040	1000.00000	1107.418270	111
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	42590	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	8145	3.78	24770	N/A	21.972312	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	747961	3.78	36910	N/A	2746.300109	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	5005	3.78	25510	N/A	3.848659	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2623	3.77	27280	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35530	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	352272	3.77	43080	1000.00000	1094.524099	109

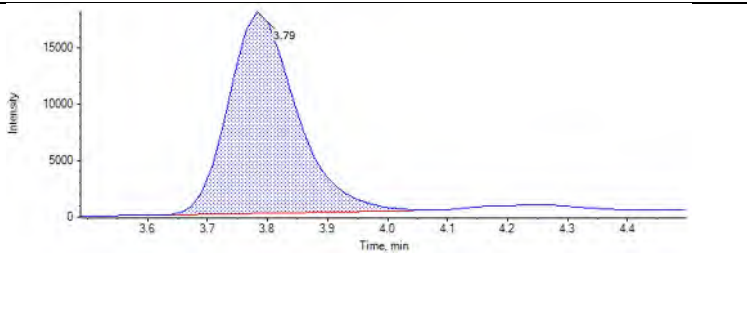
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 18.585863 ng/L</p> <p>Area: 13274.649041</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 43.934838 ng/L</p> <p>Area: 22045.996619</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 96.867204 ng/L</p> <p>Area: 39376.988614</p> <p>Modified: (False)</p>	

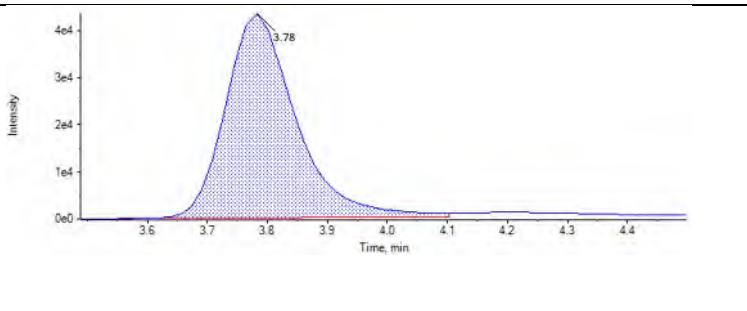
JU07
RT (Exp. RT): 3.79 (3.75) min
Calculated Conc: 241.211483 ng/L
Area: 71101.973415
Modified: (False)



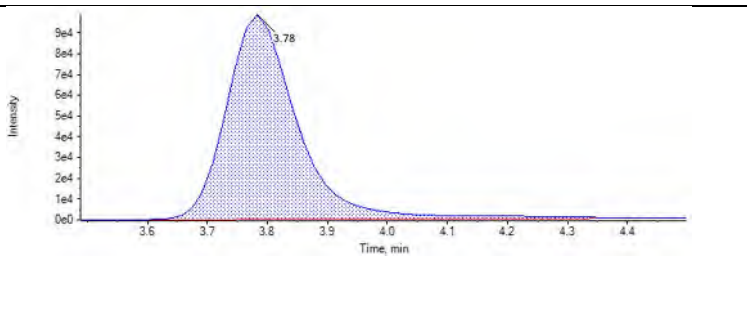
JU08
RT (Exp. RT): 3.79 (3.75) min
Calculated Conc: 522.164732 ng/L
Area: 140857.801603
Modified: (False)



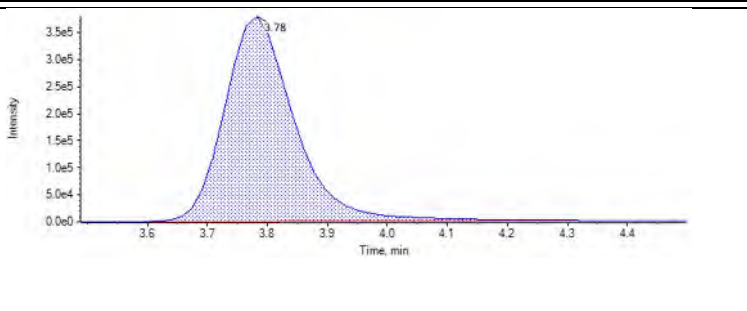
JU09
RT (Exp. RT): 3.78 (3.75) min
Calculated Conc: 1157.206023 ng/L
Area: 352370.626738
Modified: (False)

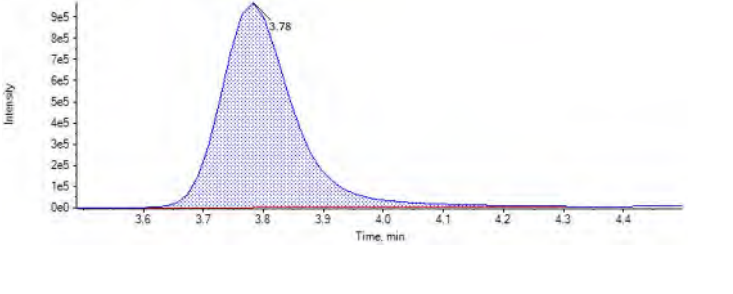
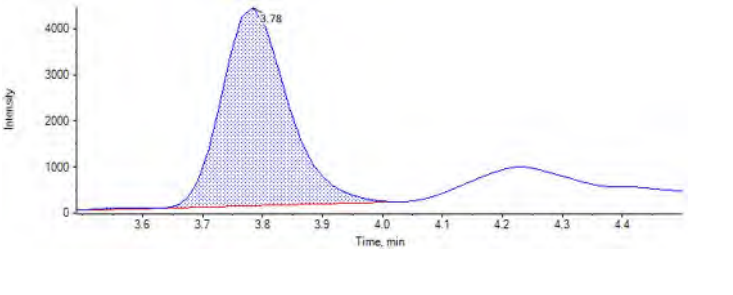
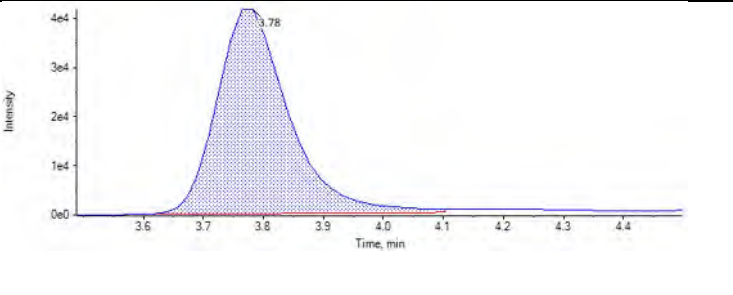
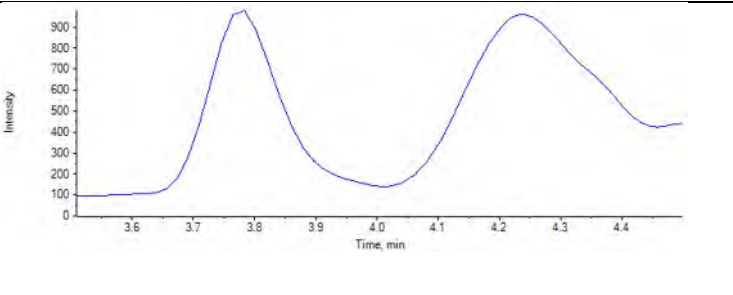
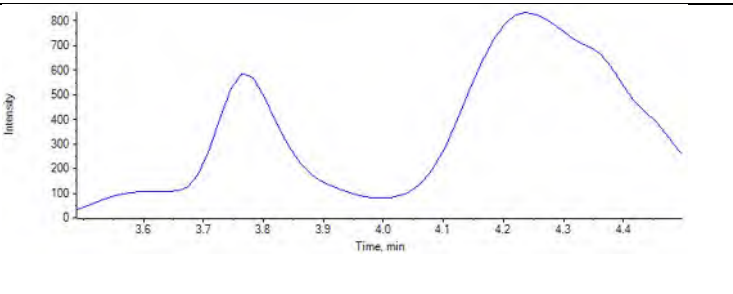


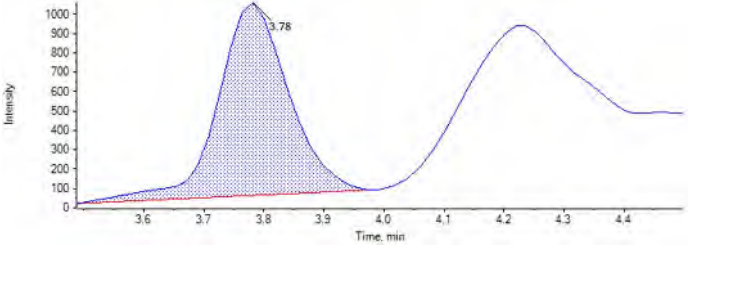
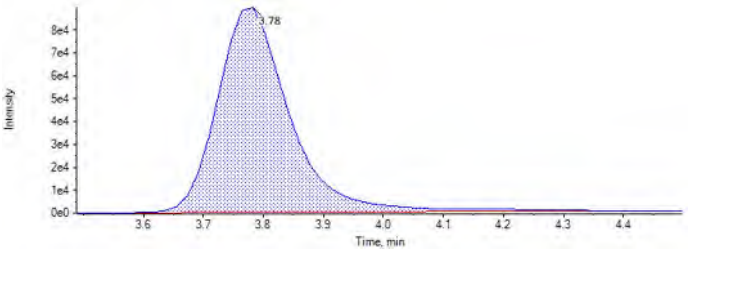
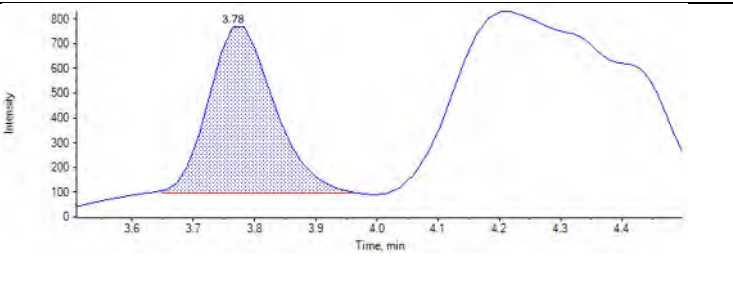
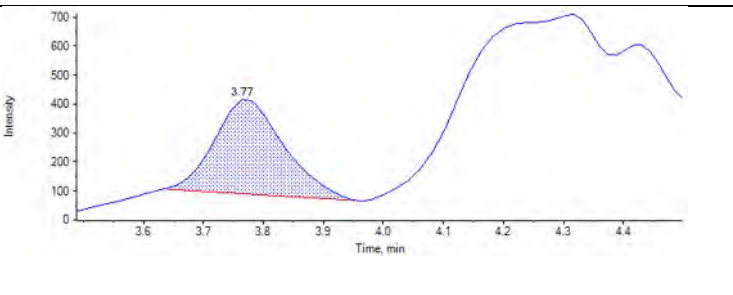
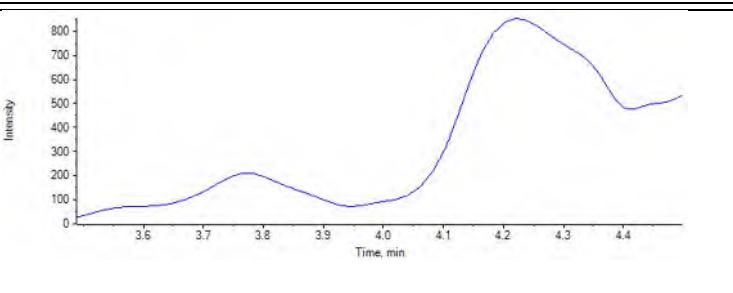
JU10
RT (Exp. RT): 3.78 (3.75) min
Calculated Conc: 3113.816575 ng/L
Area: 808936.569071
Modified: (False)



JU11
RT (Exp. RT): 3.78 (3.75) min
Calculated Conc: 10714.559444 ng/L
Area: 3064308.295037
Modified: (False)

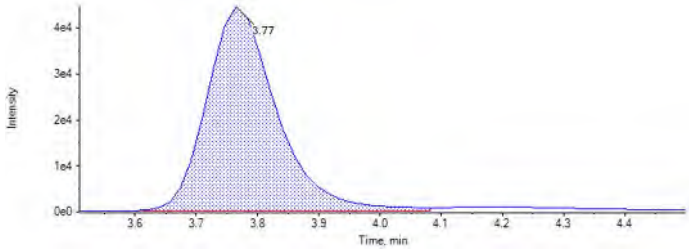


<p>JU12</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 18516.653838 ng/L</p> <p>Area: 8041132.080630</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 77.443091 ng/L</p> <p>Area: 33169.195619</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 1107.418270 ng/L</p> <p>Area: 347764.089855</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 21.972312 ng/L</p> <p>Area: 8145.156474</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 2746.300109 ng/L</p> <p>Area: 747960.918031</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 3.848659 ng/L</p> <p>Area: 5004.558541</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.77 (3.75) min</p> <p>Calculated Conc: < 0 ng/L</p> <p>Area: 2622.576072</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.77 (3.75) min
Calculated Conc: 1094.524099 ng/L
Area: 352272.311537
Modified: (False)



Analyte: PFDa_2 (613.0 / 319.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

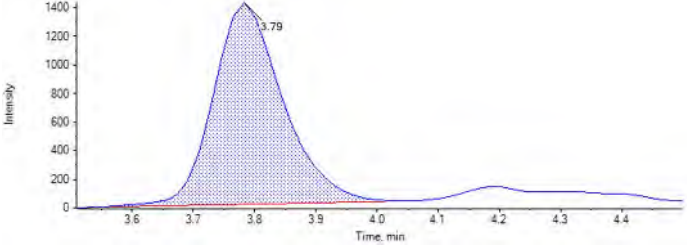
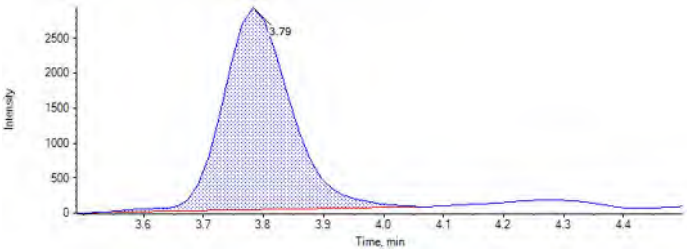
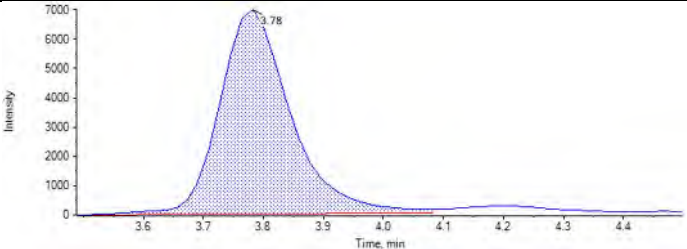
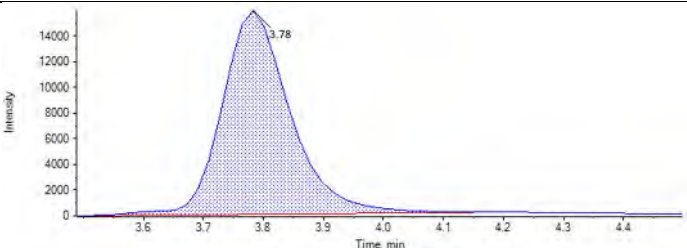
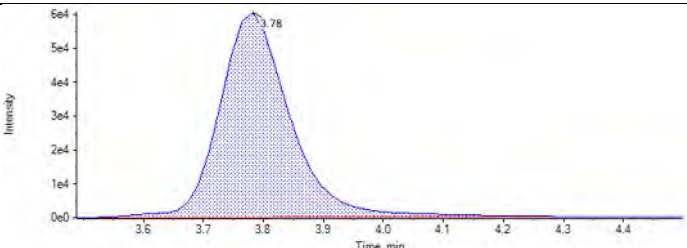
Samples:

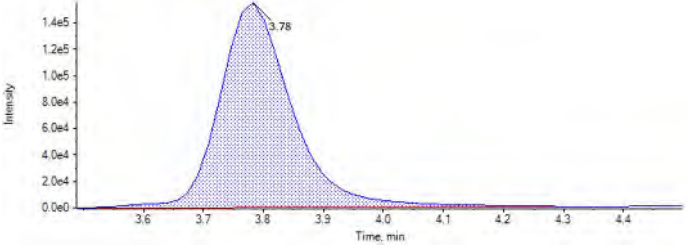
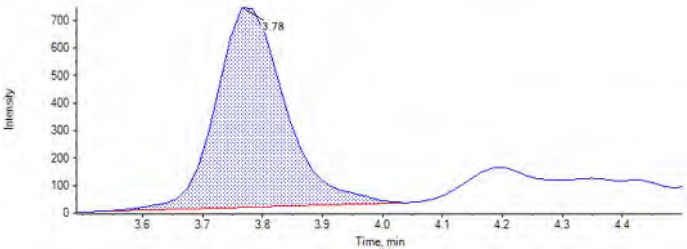
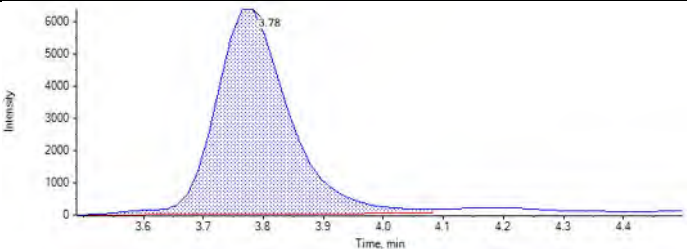
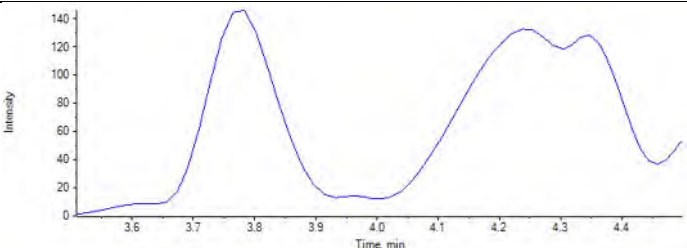
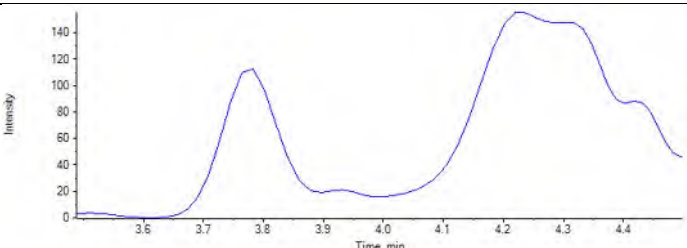
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2028	3.79	43660	25.00000	20.789022	83
JU05	Standard	3/29/2018 7:57:30 PM	3201	3.79	45030	50.00000	41.751139	84
JU06	Standard	3/29/2018 8:08:16 PM	5964	3.78	44900	100.00000	94.252859	94
JU07	Standard	3/29/2018 8:19:03 PM	11133	3.79	36780	250.00000	238.773328	96
JU08	Standard	3/29/2018 8:29:49 PM	22616	3.79	35310	500.00000	526.139502	105
JU09	Standard	3/29/2018 8:40:36 PM	57435	3.78	40800	1000.00000	1178.790809	118
JU10	Standard	3/29/2018 8:51:22 PM	125073	3.78	35240	2500.00000	3000.505564	120
JU11	Standard	3/29/2018 9:02:09 PM	494416	3.78	39000	10000.00000	10766.450030	108
JU12	Standard	3/29/2018 9:12:55 PM	1294230	3.78	59270	20000.00000	18557.547746	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	5869	3.78	45140	N/A	91.864048	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	54473	3.78	42040	1000.00000	1083.544153	108
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	42590	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1076	3.78	24770	N/A	18.232628	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	114794	3.78	36910	N/A	2627.137040	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	672	3.76	25510	N/A	3.699444	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	27280	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35530	N/A	N/A	N/A

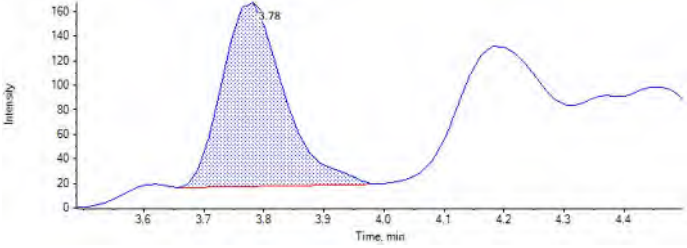
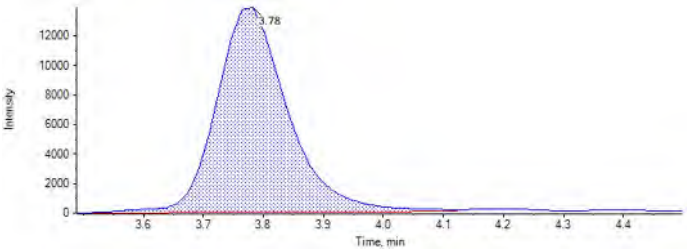
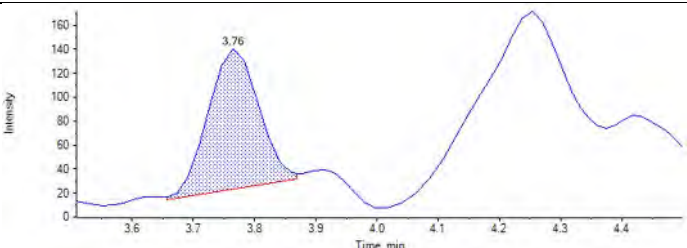
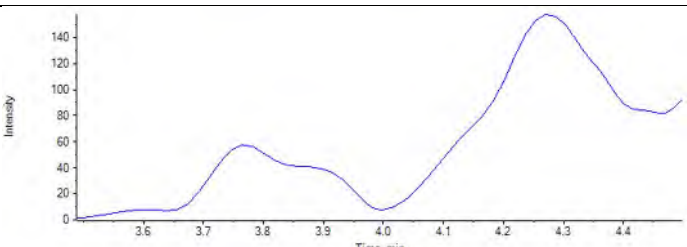
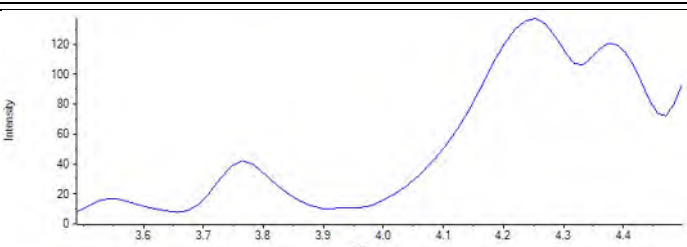
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	53014	3.77	43080	1000.00000	1028.197213	103

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 160) and time in minutes on the x-axis (3.6 to 4.4). A single prominent peak is observed at 3.77 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 20.789022 ng/L</p> <p>Area: 2027.995429</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 250) and time in minutes on the x-axis (3.6 to 4.4). A peak is labeled at 3.79 minutes.</p>
<p>JU05</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 41.751139 ng/L</p> <p>Area: 3201.464104</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 400) and time in minutes on the x-axis (3.6 to 4.4). A peak is labeled at 3.79 minutes.</p>
<p>JU06</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 94.252859 ng/L</p> <p>Area: 5963.640021</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 700) and time in minutes on the x-axis (3.6 to 4.4). A peak is labeled at 3.78 minutes.</p>

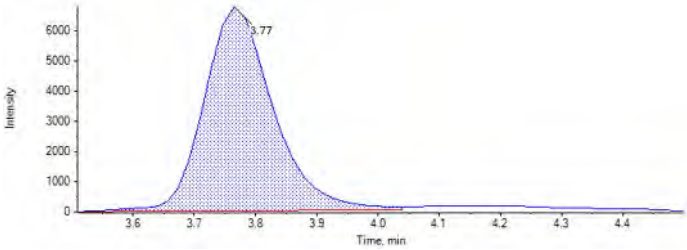
<p>JU07</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 238.773328 ng/L</p> <p>Area: 11132.788833</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 526.139502 ng/L</p> <p>Area: 22615.629136</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 1178.790809 ng/L</p> <p>Area: 57434.611092</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 3000.505564 ng/L</p> <p>Area: 125072.954660</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 10766.450030 ng/L</p> <p>Area: 494415.511108</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 18557.547746 ng/L</p> <p>Area: 1294230.158197</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 91.864048 ng/L</p> <p>Area: 5868.514751</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 1083.544153 ng/L</p> <p>Area: 54473.394390</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 18.232628 ng/L</p> <p>Area: 1076.144432</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 2627.137040 ng/L</p> <p>Area: 114793.837314</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.76 (3.75) min</p> <p>Calculated Conc: 3.699444 ng/L</p> <p>Area: 672.403731</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.77 (3.75) min
Calculated Conc: 1028.197213 ng/L
Area: 53013.619544
Modified: (False)



Analyte: PFTTrDA_1 (663.0 / 619.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

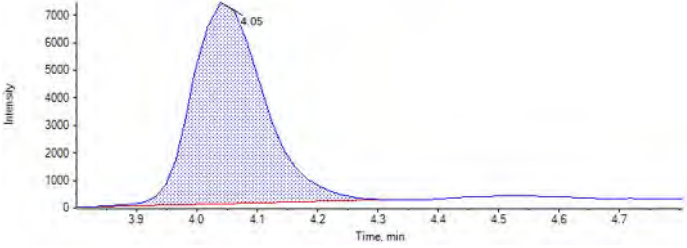
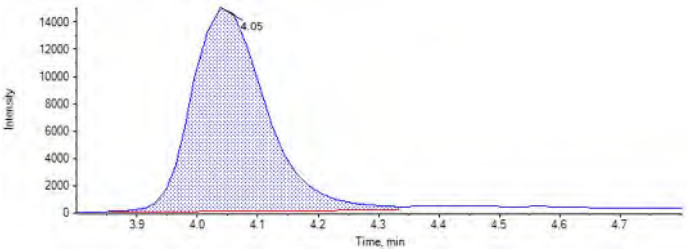
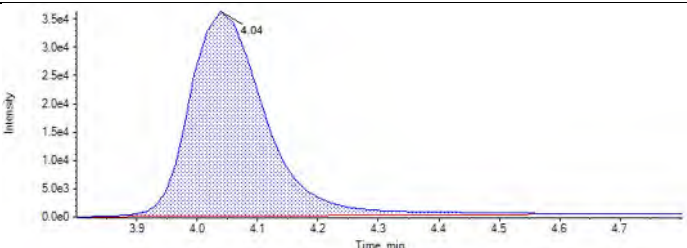
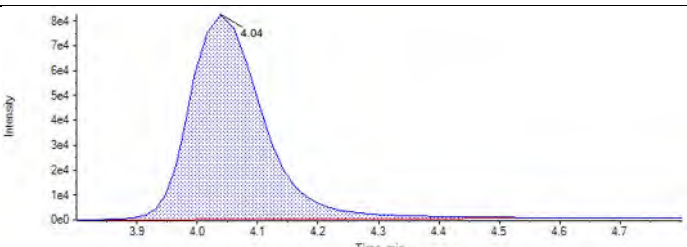
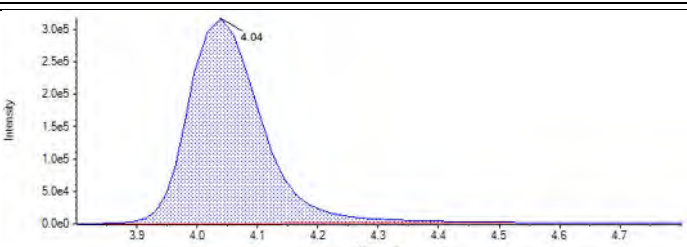
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11194	4.05	35220	25.00000	18.037092	72
JU05	Standard	3/29/2018 7:57:30 PM	19313	4.05	39810	50.00000	41.435891	83
JU06	Standard	3/29/2018 8:08:16 PM	34260	4.05	38360	100.00000	98.499120	99
JU07	Standard	3/29/2018 8:19:03 PM	60721	4.05	31230	250.00000	245.482933	98
JU08	Standard	3/29/2018 8:29:49 PM	128892	4.05	32570	500.00000	526.942491	105
JU09	Standard	3/29/2018 8:40:36 PM	316179	4.04	35230	1000.00000	1228.445359	123
JU10	Standard	3/29/2018 8:51:22 PM	699532	4.04	32820	2500.00000	2954.091521	118
JU11	Standard	3/29/2018 9:02:09 PM	2679205	4.04	33780	10000.00000	11066.106802	111
JU12	Standard	3/29/2018 9:12:55 PM	7021419	4.04	53730	20000.00000	18245.958790	91
JP83 IB	Unknown	3/29/2018 9:23:42 PM	30171	4.04	39340	N/A	80.847690	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	311245	4.03	36530	1000.00000	1165.167096	117
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	6870	4.03	14270	N/A	40.921316	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	487344	4.03	21390	N/A	3159.966521	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3869	4.03	15510	N/A	8.482100	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2203	4.03	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A

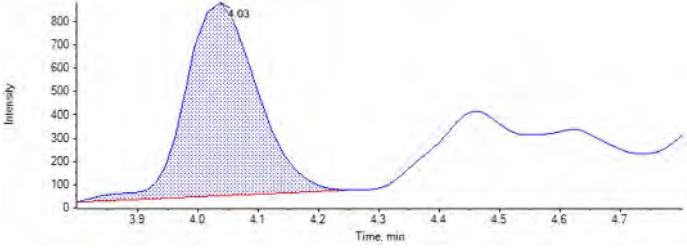
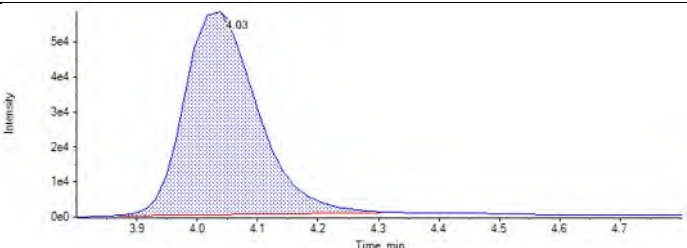
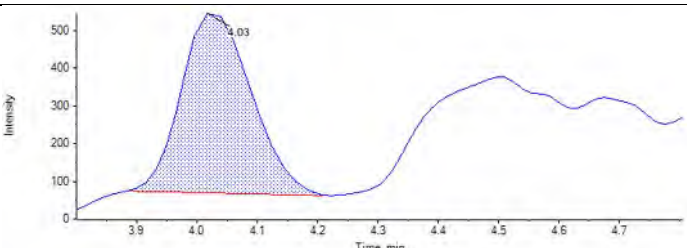
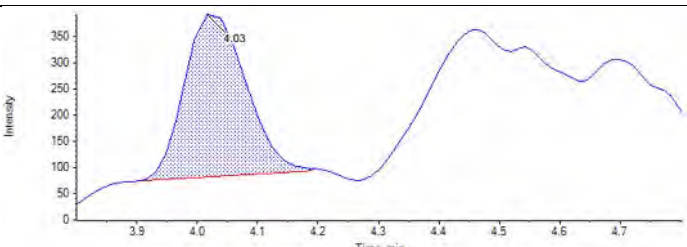
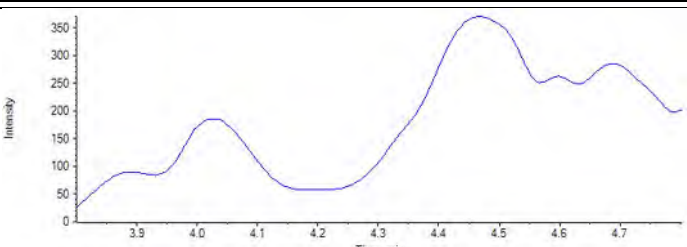
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	317501	4.02	37360	1000.00000	1162.073272	116

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows a baseline with a significant peak at 4.05 minutes. The y-axis represents intensity from 0 to 500, and the x-axis represents time from 3.90 to 4.70 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 18.037092 ng/L</p> <p>Area: 11193.854161</p> <p>Modified: (True)</p>	<p>The chromatogram displays a sharp peak at 4.05 minutes. The y-axis (Intensity) ranges from 0 to 1400, and the x-axis (Time, min) ranges from 3.9 to 4.7.</p>
<p>JU05</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 41.435891 ng/L</p> <p>Area: 19313.189523</p> <p>Modified: (False)</p>	<p>The chromatogram shows a peak at 4.05 minutes. The y-axis (Intensity) ranges from 0 to 2000, and the x-axis (Time, min) ranges from 3.9 to 4.7.</p>
<p>JU06</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 98.499120 ng/L</p> <p>Area: 34260.142843</p> <p>Modified: (False)</p>	<p>The chromatogram displays a peak at 4.05 minutes. The y-axis (Intensity) ranges from 0 to 4000, and the x-axis (Time, min) ranges from 3.9 to 4.7.</p>

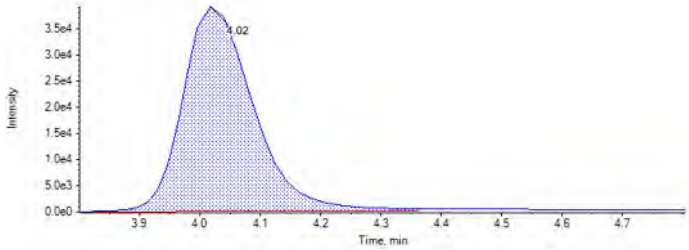
<p>JU07</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 245.482933 ng/L</p> <p>Area: 60721.188294</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 526.942491 ng/L</p> <p>Area: 128891.987706</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 1228.445359 ng/L</p> <p>Area: 316178.655613</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 2954.091521 ng/L</p> <p>Area: 699531.931612</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 11066.106802 ng/L</p> <p>Area: 2679204.566936</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 18245.958790 ng/L</p> <p>Area: 7021418.645090</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 80.847690 ng/L</p> <p>Area: 30171.091908</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 1165.167096 ng/L</p> <p>Area: 311244.839648</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 40.921316 ng/L</p> <p>Area: 6869.915537</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 3159.966521 ng/L</p> <p>Area: 487344.201386</p> <p>Modified: (True)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 8.482100 ng/L</p> <p>Area: 3868.999818</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: < 0 ng/L</p> <p>Area: 2203.469597</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 4.02 (4.10) min
Calculated Conc: 1162.073272 ng/L
Area: 317501.495886
Modified: (False)



Analyte: PFTrDA_2 (663.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

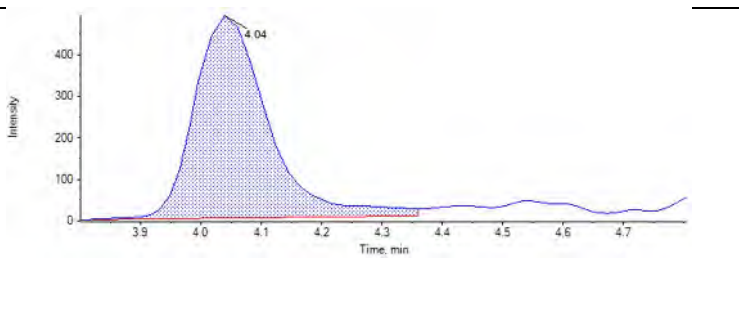
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	761	4.05	35220	25.00000	24.482066	98
JU05	Standard	3/29/2018 7:57:30 PM	1076	4.04	39810	50.00000	35.219009	70
JU06	Standard	3/29/2018 8:08:16 PM	2365	4.05	38360	100.00000	103.876978	104
JU07	Standard	3/29/2018 8:19:03 PM	4142	4.04	31230	250.00000	244.481018	98
JU08	Standard	3/29/2018 8:29:49 PM	8631	4.04	32570	500.00000	506.816096	101
JU09	Standard	3/29/2018 8:40:36 PM	20517	4.04	35230	1000.00000	1135.695566	114
JU10	Standard	3/29/2018 8:51:22 PM	46550	4.04	32820	2500.00000	2792.612745	112
JU11	Standard	3/29/2018 9:02:09 PM	189201	4.03	33780	10000.00000	11083.593179	111
JU12	Standard	3/29/2018 9:12:55 PM	502040	4.04	53730	20000.00000	18498.223344	92
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2263	4.04	39340	N/A	95.651446	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	22240	4.03	36530	1000.00000	1188.360426	119
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	528	4.03	14270	N/A	55.001075	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	36931	4.03	21390	N/A	3403.858354	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	279	4.01	15510	N/A	17.377666	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	127	4.04	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	21296	4.02	37360	1000.00000	1111.421715	111

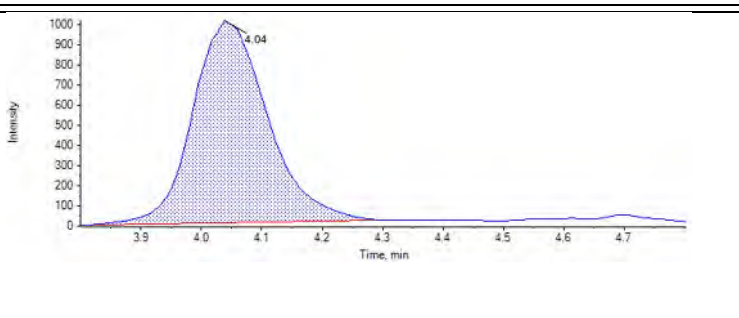
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 24.482066 ng/L</p> <p>Area: 761.032463</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 35.219009 ng/L</p> <p>Area: 1075.826407</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 103.876978 ng/L</p> <p>Area: 2365.336178</p> <p>Modified: (False)</p>	

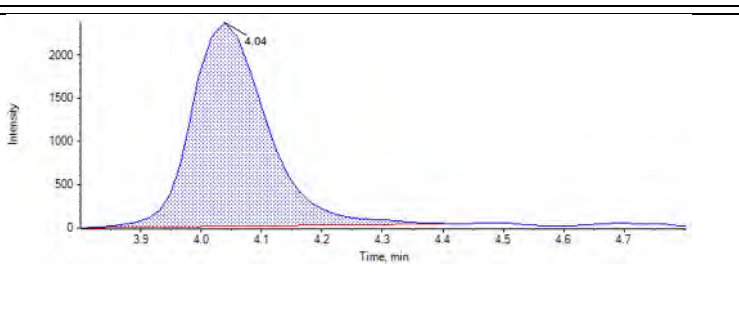
JU07
RT (Exp. RT): 4.04 (4.10) min
Calculated Conc: 244.481018 ng/L
Area: 4141.510800
Modified: (False)



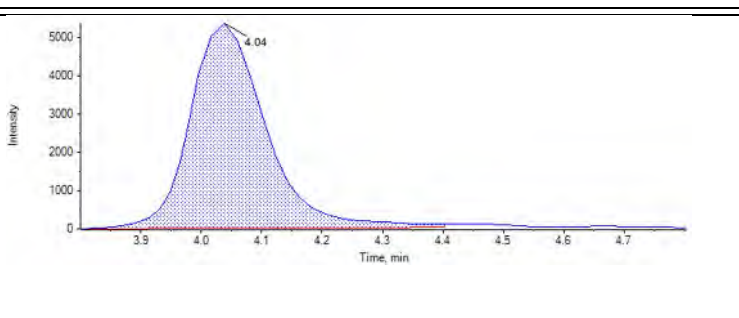
JU08
RT (Exp. RT): 4.04 (4.10) min
Calculated Conc: 506.816096 ng/L
Area: 8631.067852
Modified: (False)



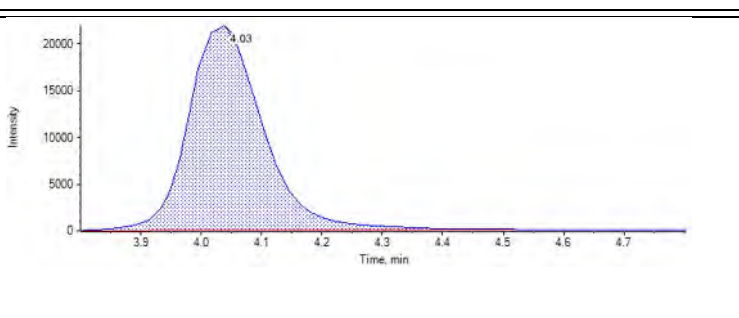
JU09
RT (Exp. RT): 4.04 (4.10) min
Calculated Conc: 1135.695566 ng/L
Area: 20516.715129
Modified: (False)



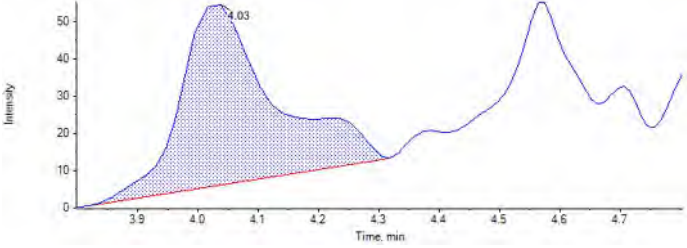
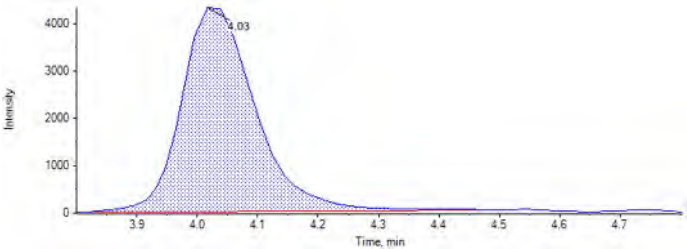
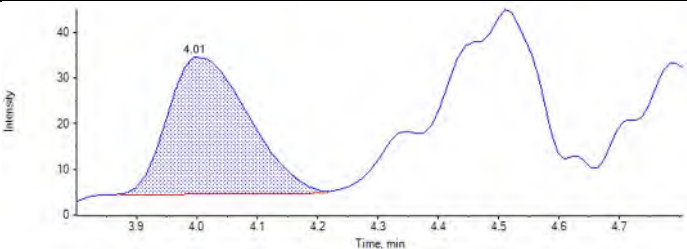
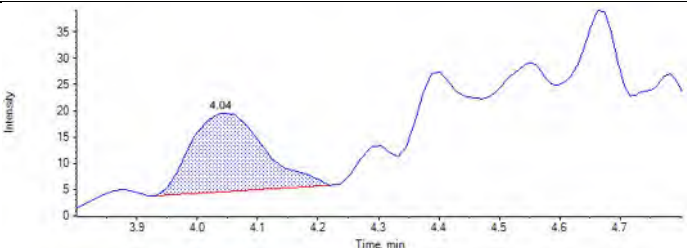
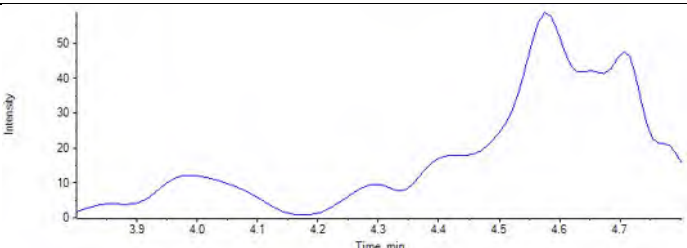
JU10
RT (Exp. RT): 4.04 (4.10) min
Calculated Conc: 2792.612745 ng/L
Area: 46550.083779
Modified: (False)



JU11
RT (Exp. RT): 4.03 (4.10) min
Calculated Conc: 11083.593179 ng/L
Area: 189200.623553
Modified: (False)

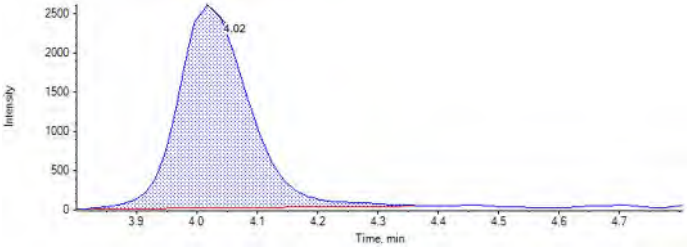


<p>JU12</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 18498.223344 ng/L</p> <p>Area: 502040.201083</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 95.651446 ng/L</p> <p>Area: 2262.583999</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 1188.360426 ng/L</p> <p>Area: 22239.723790</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 55.001075 ng/L</p> <p>Area: 528.037360</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 4.03 (4.10) min</p> <p>Calculated Conc: 3403.858354 ng/L</p> <p>Area: 36931.129792</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 4.01 (4.10) min</p> <p>Calculated Conc: 17.377666 ng/L</p> <p>Area: 279.491904</p> <p>Modified: (True)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: < 0 ng/L</p> <p>Area: 126.523951</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 4.02 (4.10) min
Calculated Conc: 1111.421715 ng/L
Area: 21295.578029
Modified: (False)



Analyte: PFTeDA_1 (713.0 / 669.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

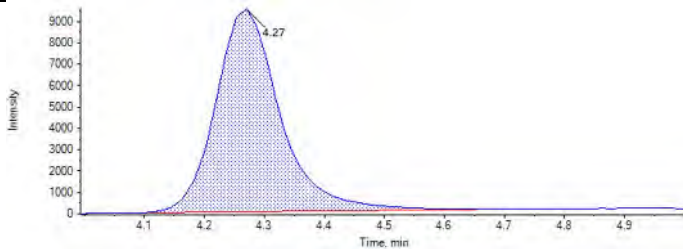
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	12657	4.27	35220	25.00000	20.698509	83
JU05	Standard	3/29/2018 7:57:30 PM	19748	4.27	39810	50.00000	37.374163	75
JU06	Standard	3/29/2018 8:08:16 PM	38870	4.27	38360	100.00000	100.483978	100
JU07	Standard	3/29/2018 8:19:03 PM	70859	4.27	31230	250.00000	253.641545	101
JU08	Standard	3/29/2018 8:29:49 PM	147700	4.27	32570	500.00000	530.011524	106
JU09	Standard	3/29/2018 8:40:36 PM	350563	4.27	35230	1000.00000	1190.575893	119
JU10	Standard	3/29/2018 8:51:22 PM	776102	4.26	32820	2500.00000	2861.500365	114
JU11	Standard	3/29/2018 9:02:09 PM	2987998	4.26	33780	10000.00000	10768.712330	108
JU12	Standard	3/29/2018 9:12:55 PM	8230664	4.26	53730	20000.00000	18662.001693	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	38318	4.26	39340	N/A	95.686639	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	346970	4.26	36530	1000.00000	1135.643035	114
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	7229	4.26	14270	N/A	38.659502	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	499091	4.26	21390	N/A	2823.496803	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3586	4.26	15510	N/A	5.066297	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2180	4.25	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	972	4.25	20910	N/A	< 0	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	345189	4.25	37360	1000.00000	1104.043778	110

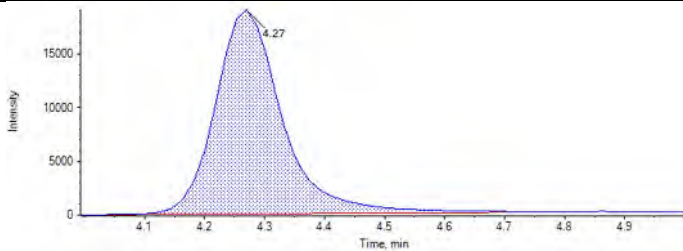
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 20.698509 ng/L</p> <p>Area: 12657.108570</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 37.374163 ng/L</p> <p>Area: 19747.668766</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 100.483978 ng/L</p> <p>Area: 38870.333588</p> <p>Modified: (False)</p>	

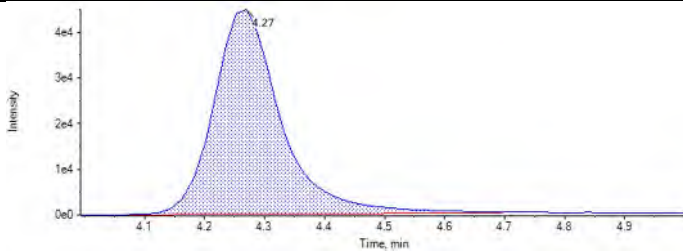
JU07
RT (Exp. RT): 4.27 (4.30) min
Calculated Conc: 253.641545 ng/L
Area: 70858.765061
Modified: (False)



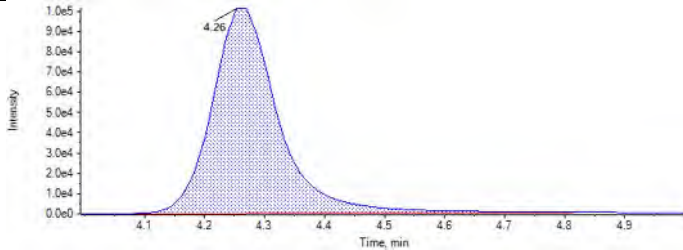
JU08
RT (Exp. RT): 4.27 (4.30) min
Calculated Conc: 530.011524 ng/L
Area: 147699.595247
Modified: (False)



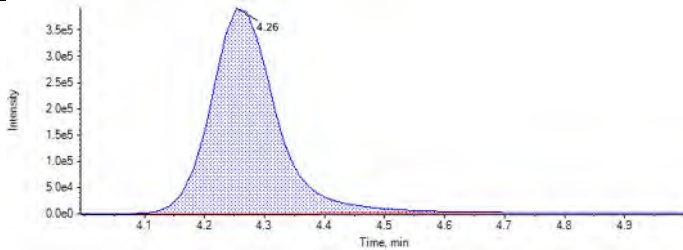
JU09
RT (Exp. RT): 4.27 (4.30) min
Calculated Conc: 1190.575893 ng/L
Area: 350562.509743
Modified: (False)



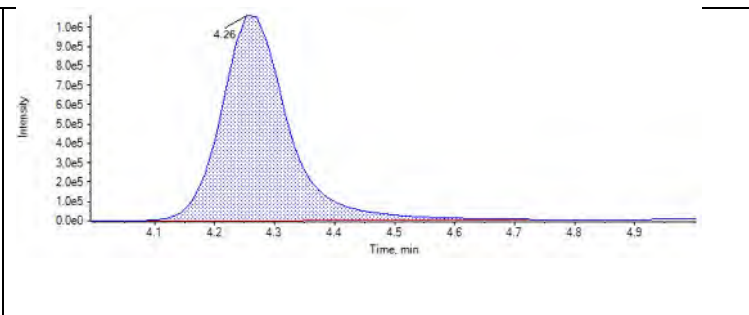
JU10
RT (Exp. RT): 4.26 (4.30) min
Calculated Conc: 2861.500365 ng/L
Area: 776101.886715
Modified: (False)



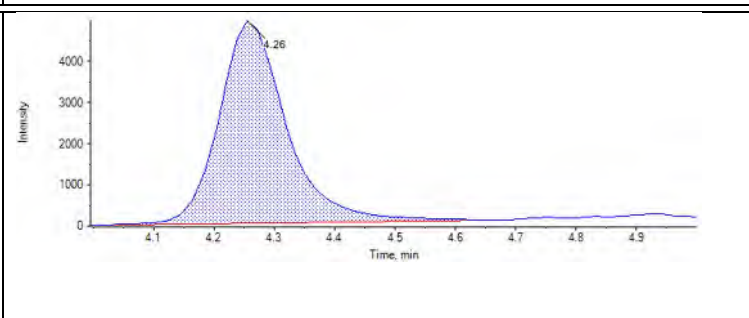
JU11
RT (Exp. RT): 4.26 (4.30) min
Calculated Conc: 10768.712330 ng/L
Area: 2987997.824999
Modified: (False)



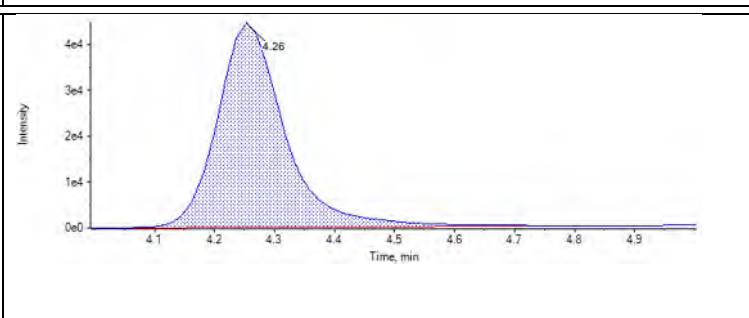
JU12	
RT (Exp. RT):	4.26 (4.30) min
Calculated Conc:	18662.001693 ng/L
Area:	8230663.874245
Modified:	(False)



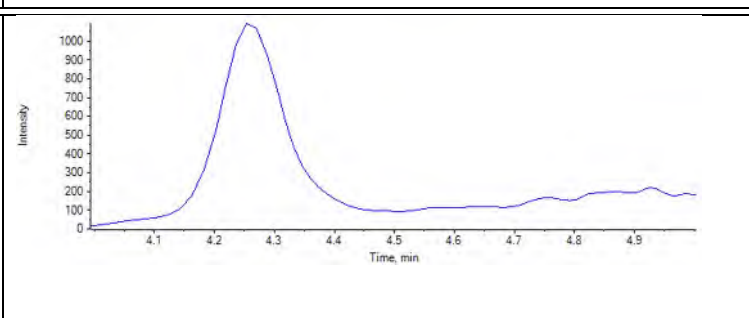
JP83 IB	
RT (Exp. RT):	4.26 (4.30) min
Calculated Conc:	95.686639 ng/L
Area:	38317.786477
Modified:	(False)



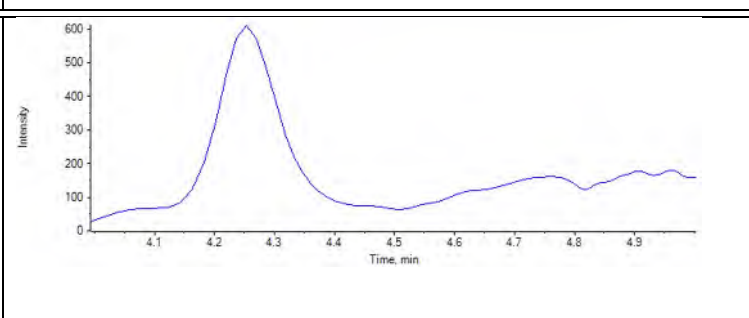
JU13 ICC	
RT (Exp. RT):	4.26 (4.30) min
Calculated Conc:	1135.643035 ng/L
Area:	346969.869581
Modified:	(False)



JU38 Branch	
RT (Exp. RT):	N/A (4.30) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



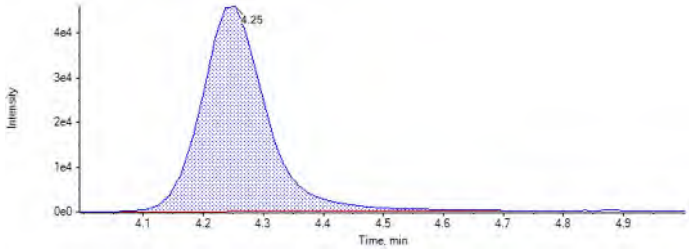
MeOH	
RT (Exp. RT):	N/A (4.30) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 38.659502 ng/L</p> <p>Area: 7228.504664</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 2823.496803 ng/L</p> <p>Area: 499090.800471</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 5.066297 ng/L</p> <p>Area: 3585.584927</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.30) min</p> <p>Calculated Conc: < 0 ng/L</p> <p>Area: 2180.445226</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.30) min</p> <p>Calculated Conc: < 0 ng/L</p> <p>Area: 972.120188</p> <p>Modified: (False)</p>	

JU09 CCV

RT (Exp. RT): 4.25 (4.30) min
Calculated Conc: 1104.043778 ng/L
Area: 345189.061049
Modified: (False)



Analyte: PFTeDA_2 (713.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

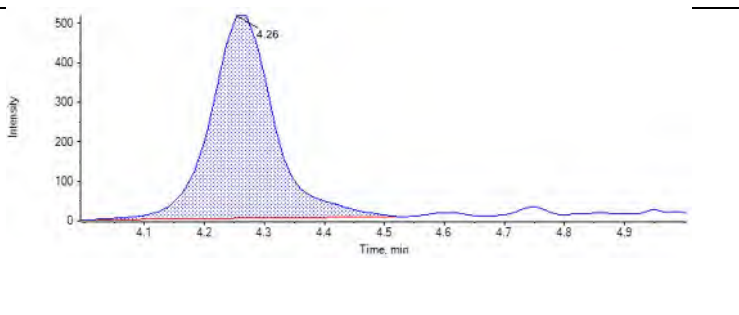
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	596	4.26	35220	25.00000	23.171072	93
JU05	Standard	3/29/2018 7:57:30 PM	898	4.27	39810	50.00000	36.229290	72
JU06	Standard	3/29/2018 8:08:16 PM	1999	4.27	38360	100.00000	104.692473	105
JU07	Standard	3/29/2018 8:19:03 PM	3793	4.26	31230	250.00000	265.266327	106
JU08	Standard	3/29/2018 8:29:49 PM	6945	4.27	32570	500.00000	477.858637	96
JU09	Standard	3/29/2018 8:40:36 PM	18075	4.26	35230	1000.00000	1172.163483	117
JU10	Standard	3/29/2018 8:51:22 PM	38995	4.26	32820	2500.00000	2735.811572	109
JU11	Standard	3/29/2018 9:02:09 PM	157113	4.26	33780	10000.00000	10757.710831	108
JU12	Standard	3/29/2018 9:12:55 PM	437753	4.26	53730	20000.00000	18852.096314	94
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2079	4.26	39340	N/A	106.379057	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	17154	4.25	36530	1000.00000	1071.718303	107
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	431	4.24	14270	N/A	53.919886	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	24983	4.25	21390	N/A	2689.414852	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	218	4.25	15510	N/A	16.524613	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	18040	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	17652	4.25	37360	1000.00000	1078.395151	108

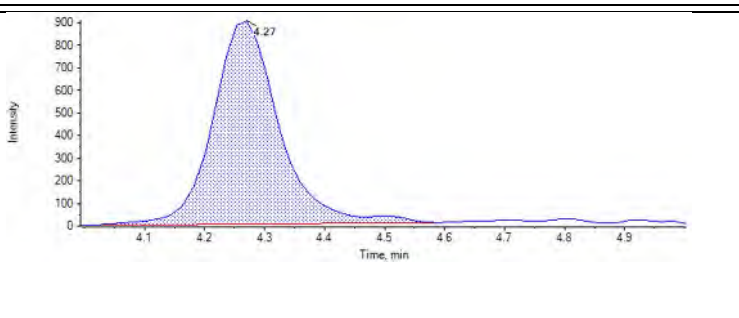
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows a baseline with several peaks. The most prominent peak is at 4.25 minutes, reaching an intensity of approximately 35. Other smaller peaks are visible at approximately 4.6, 4.8, and 4.9 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 23.171072 ng/L</p> <p>Area: 595.691715</p> <p>Modified: (False)</p>	<p>The chromatogram shows a single sharp peak at 4.26 minutes with an intensity of approximately 70. The baseline is relatively flat with minor noise. Other small peaks are visible at approximately 4.8 and 4.9 minutes.</p>
<p>JU05</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 36.229290 ng/L</p> <p>Area: 897.730230</p> <p>Modified: (False)</p>	<p>The chromatogram shows a single sharp peak at 4.27 minutes with an intensity of approximately 120. The baseline is relatively flat with minor noise. Other small peaks are visible at approximately 4.8 and 4.9 minutes.</p>
<p>JU06</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 104.692473 ng/L</p> <p>Area: 1998.777313</p> <p>Modified: (False)</p>	<p>The chromatogram shows a single sharp peak at 4.27 minutes with an intensity of approximately 200. The baseline is relatively flat with minor noise. Other small peaks are visible at approximately 4.8 and 4.9 minutes.</p>

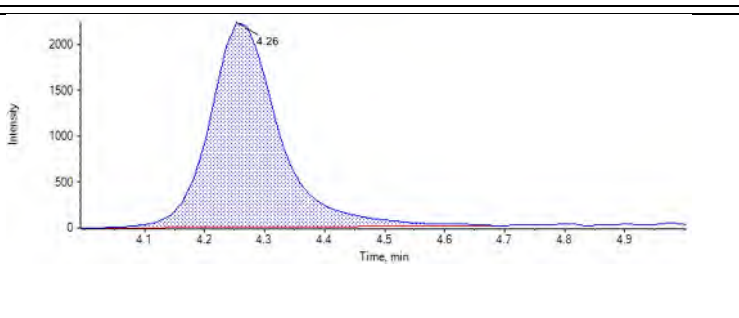
JU07
RT (Exp. RT): 4.26 (4.30) min
Calculated Conc: 265.266327 ng/L
Area: 3792.624390
Modified: (False)



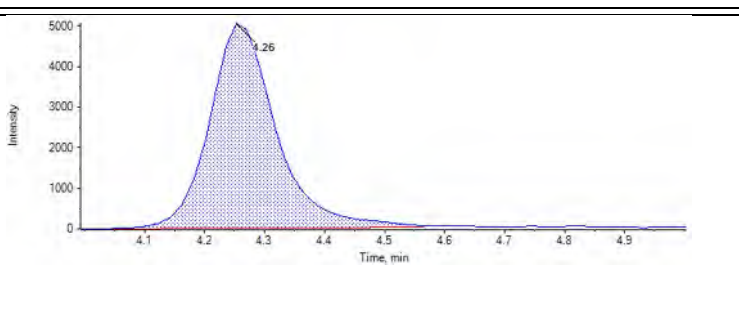
JU08
RT (Exp. RT): 4.27 (4.30) min
Calculated Conc: 477.858637 ng/L
Area: 6945.475437
Modified: (False)



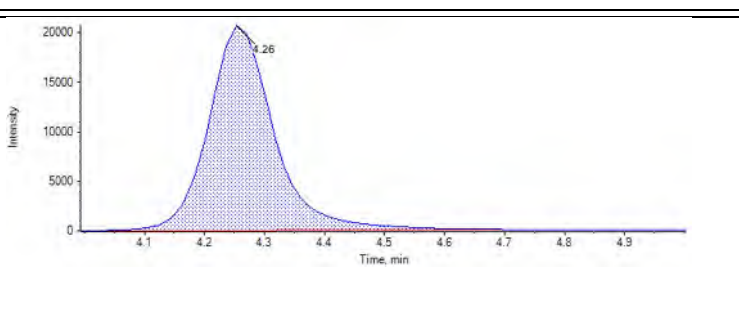
JU09
RT (Exp. RT): 4.26 (4.30) min
Calculated Conc: 1172.163483 ng/L
Area: 18075.412054
Modified: (False)

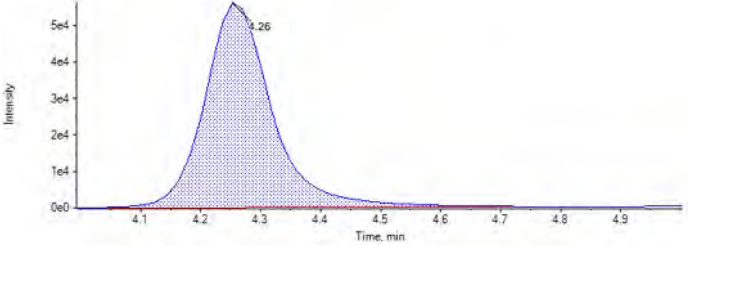
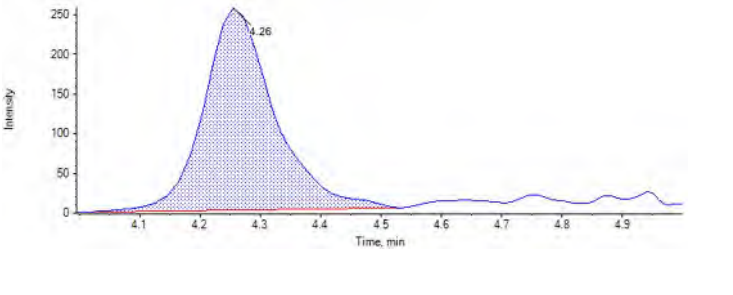
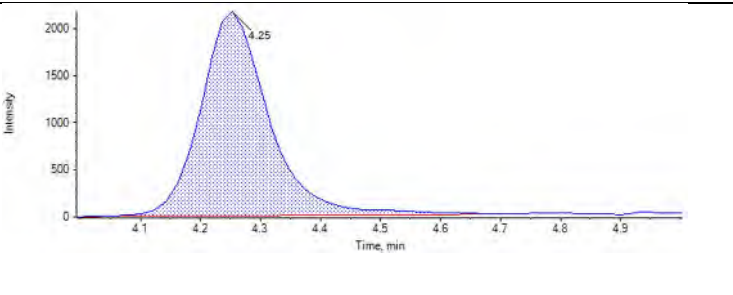
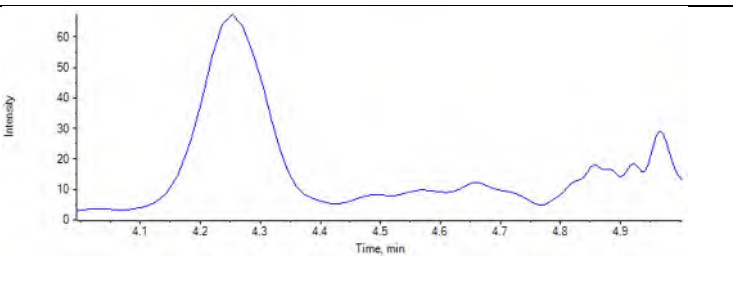
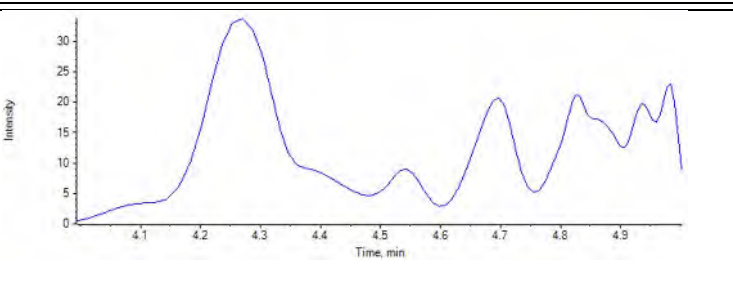


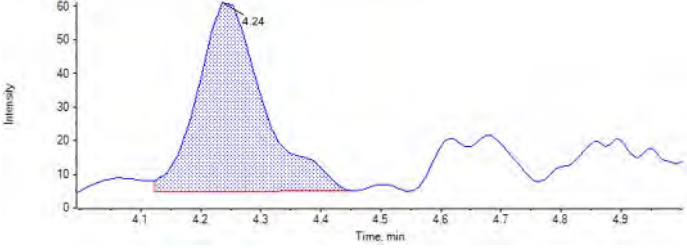
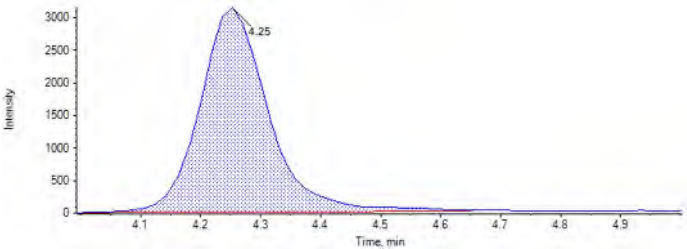
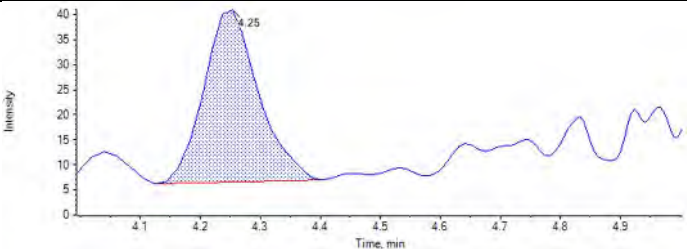
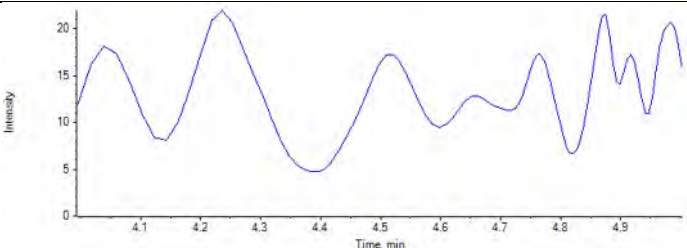
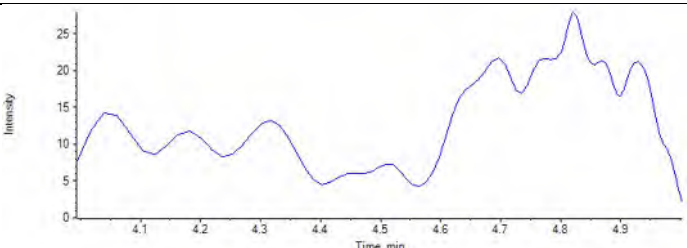
JU10
RT (Exp. RT): 4.26 (4.30) min
Calculated Conc: 2735.811572 ng/L
Area: 38995.005675
Modified: (False)



JU11
RT (Exp. RT): 4.26 (4.30) min
Calculated Conc: 10757.710831 ng/L
Area: 157113.194732
Modified: (False)

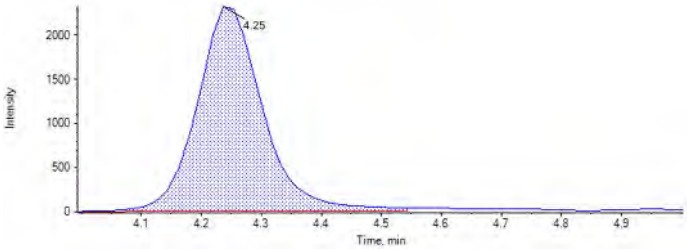


<p>JU12</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 18852.096314 ng/L</p> <p>Area: 437753.461949</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 106.379057 ng/L</p> <p>Area: 2078.561800</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 4.25 (4.30) min</p> <p>Calculated Conc: 1071.718303 ng/L</p> <p>Area: 17154.167452</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 4.24 (4.30) min</p> <p>Calculated Conc: 53.919886 ng/L</p> <p>Area: 430.764863</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.30) min</p> <p>Calculated Conc: 2689.414852 ng/L</p> <p>Area: 24983.001224</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.30) min</p> <p>Calculated Conc: 16.524613 ng/L</p> <p>Area: 217.780085</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 4.25 (4.30) min
Calculated Conc: 1078.395151 ng/L
Area: 17652.249975
Modified: (False)



Analyte: NMeFOSAA_1 (570.0 / 419.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

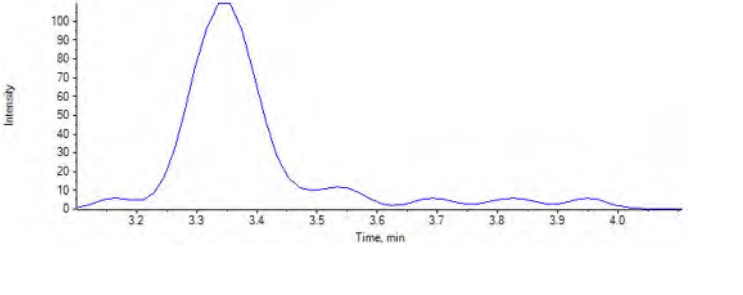
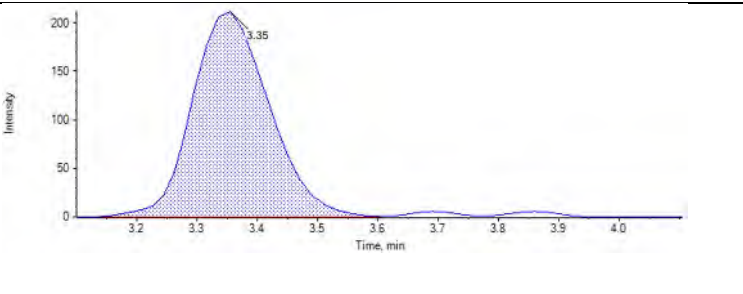
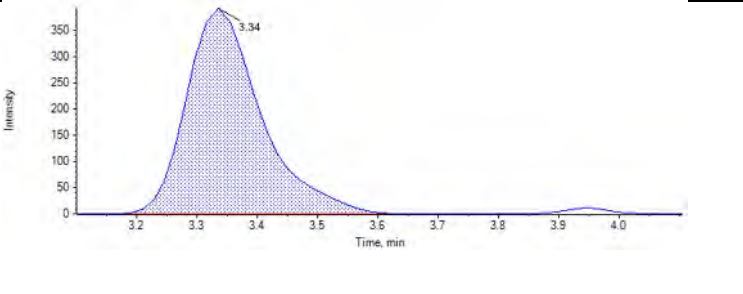
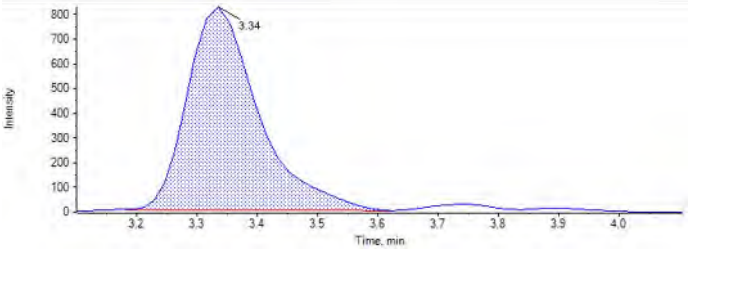
Samples:

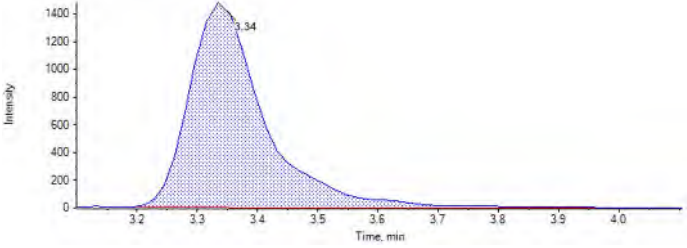
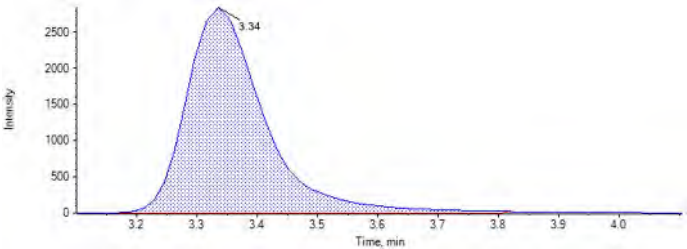
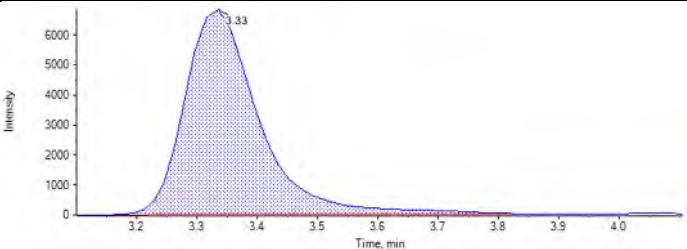
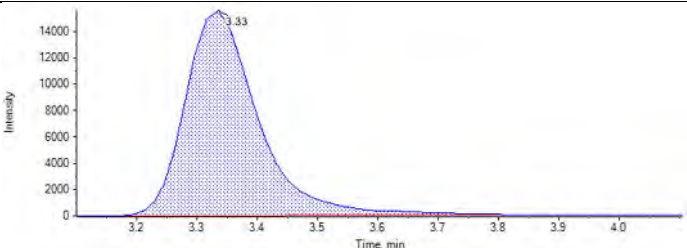
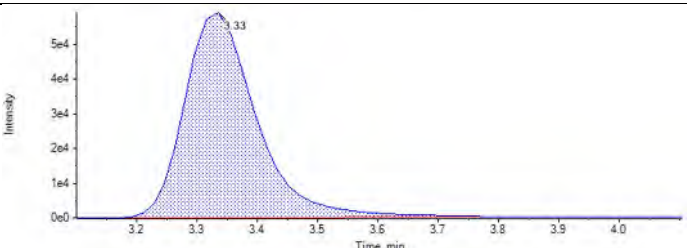
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1870	3.35	6367	25.00000	32.169726	129
JU05	Standard	3/29/2018 7:57:30 PM	3375	3.34	6113	50.00000	55.645104	111
JU06	Standard	3/29/2018 8:08:16 PM	6764	3.34	7990	100.00000	82.449873	82
JU07	Standard	3/29/2018 8:19:03 PM	12765	3.34	5664	250.00000	211.355806	85
JU08	Standard	3/29/2018 8:29:49 PM	25252	3.34	5607	500.00000	420.344353	84
JU09	Standard	3/29/2018 8:40:36 PM	58220	3.33	5285	1000.00000	1046.700488	105
JU10	Standard	3/29/2018 8:51:22 PM	130321	3.33	5030	2500.00000	2627.097605	105
JU11	Standard	3/29/2018 9:02:09 PM	490992	3.33	7440	10000.00000	9880.284792	99
JU12	Standard	3/29/2018 9:12:55 PM	1313431	3.33	9562	20000.00000	no root	N/A
JU13 IB	Unknown	3/29/2018 9:23:42 PM	7644	3.33	6596	N/A	110.947437	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	58365	3.33	7442	1000.00000	737.293483	74
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6741	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1368	3.33	3932	N/A	37.074561	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	127704	3.33	6026	N/A	2100.534197	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1336	3.33	2854	N/A	48.021580	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	456	3.33	4519	N/A	14.679917	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5607	N/A	N/A	N/A

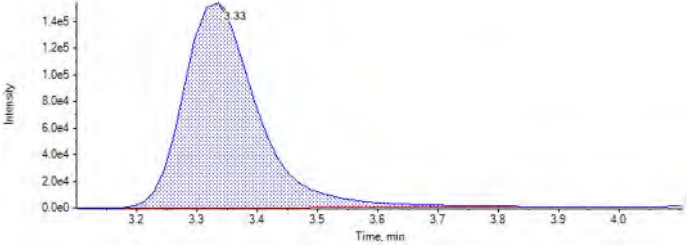
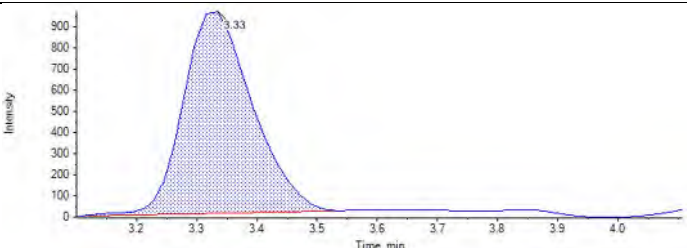
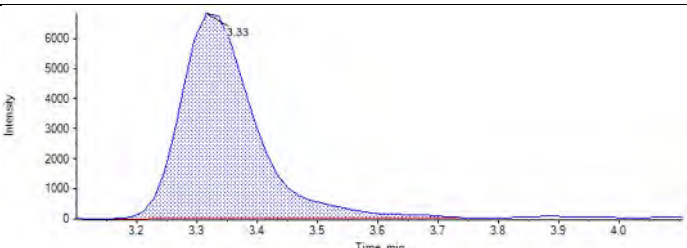
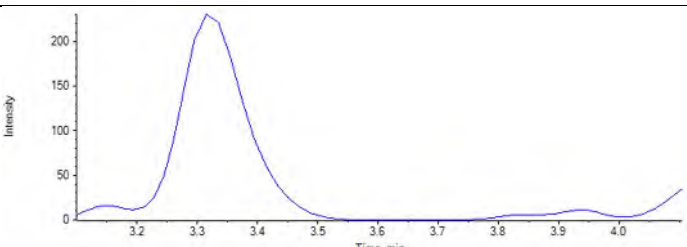
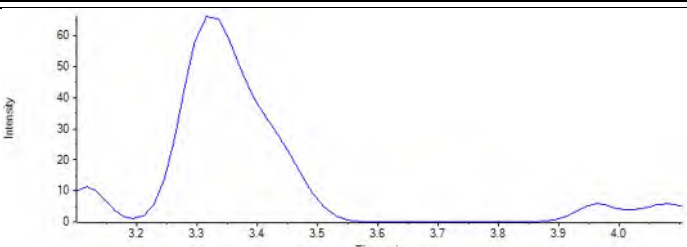
Not being used in this calibration
 DMS 4/6/18

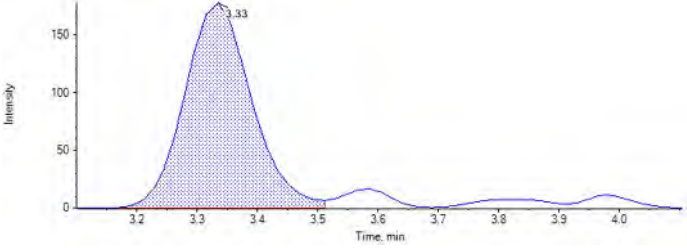
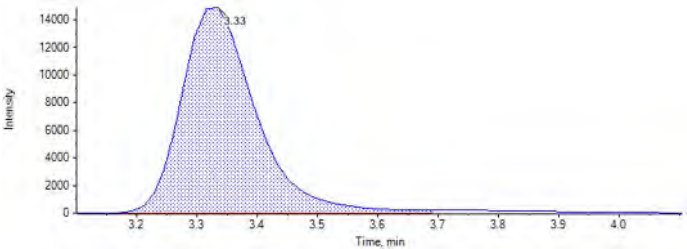
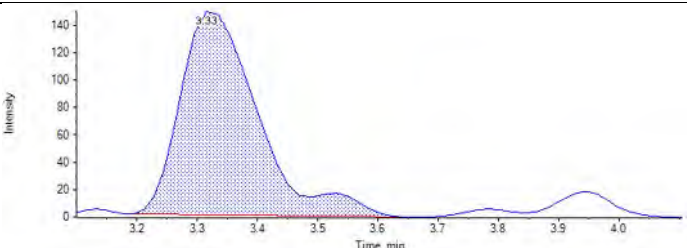
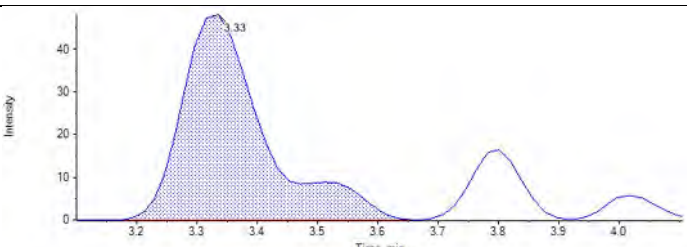
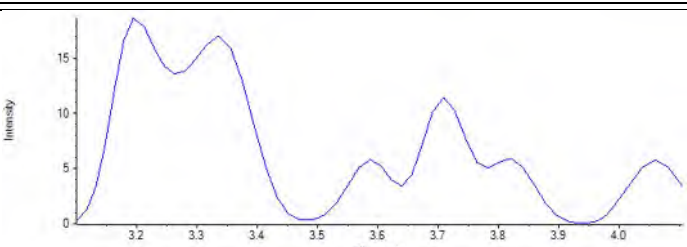
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	55006	3.32	6215	1000.00000	834.573419	83

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 32.169726 ng/L</p> <p>Area: 1870.260290</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 55.645104 ng/L</p> <p>Area: 3374.956561</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 82.449873 ng/L</p> <p>Area: 6763.856331</p> <p>Modified: (False)</p>	

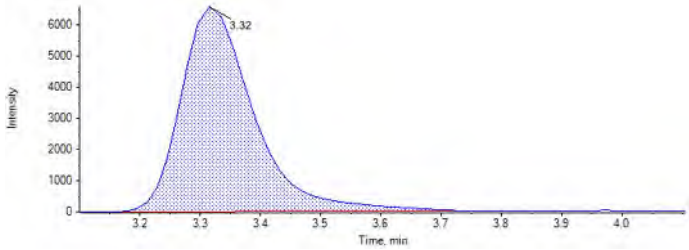
<p>JU07</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 211.355806 ng/L</p> <p>Area: 12764.517537</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 420.344353 ng/L</p> <p>Area: 25252.094874</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 1046.700488 ng/L</p> <p>Area: 58219.772161</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 2627.097605 ng/L</p> <p>Area: 130321.154261</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 9880.284792 ng/L</p> <p>Area: 490991.998483</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: no root ng/L</p> <p>Area: 1313431.322099</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 110.947437 ng/L</p> <p>Area: 7643.688302</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 737.293483 ng/L</p> <p>Area: 58365.095364</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 37.074561 ng/L</p> <p>Area: 1367.555618</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 2100.534197 ng/L</p> <p>Area: 127703.924560</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 48.021580 ng/L</p> <p>Area: 1336.429493</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 14.679917 ng/L</p> <p>Area: 456.006505</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.32 (3.30) min
Calculated Conc: 834.573419 ng/L
Area: 55005.532841
Modified: (False)



Analyte: NMeFOSAA_2 (570.0 / 512.0)

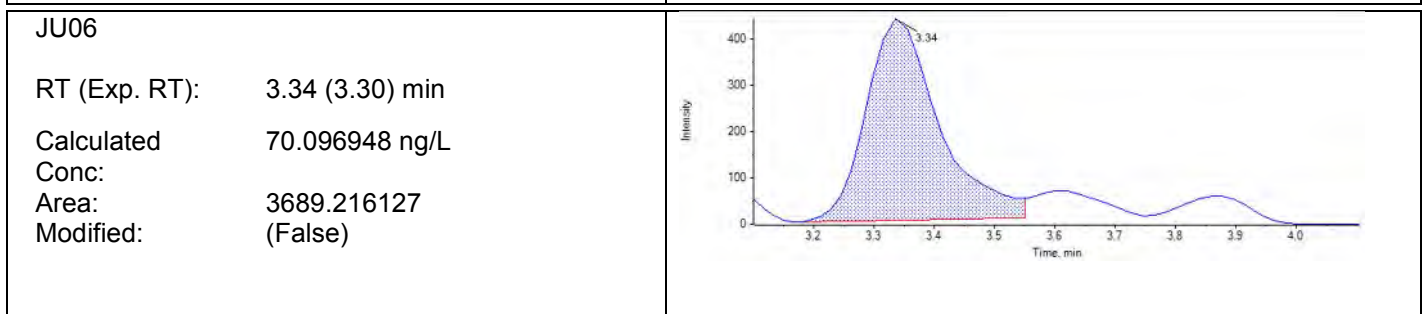
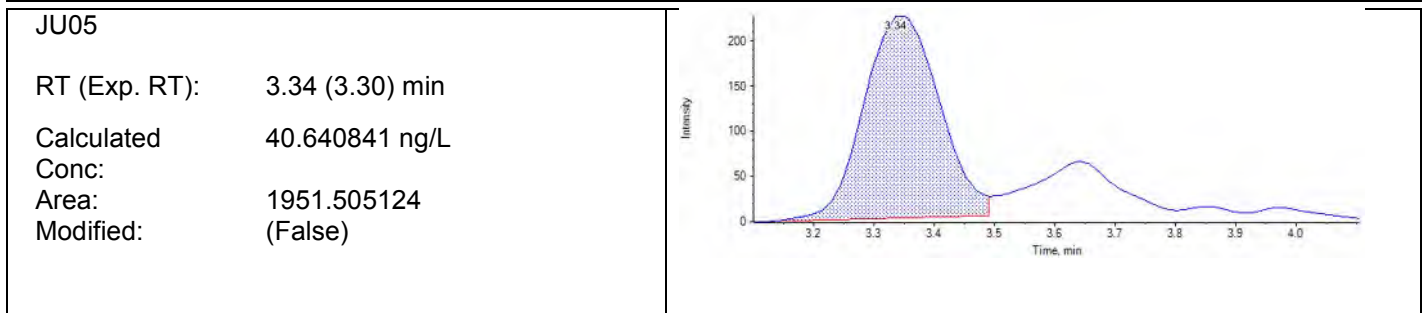
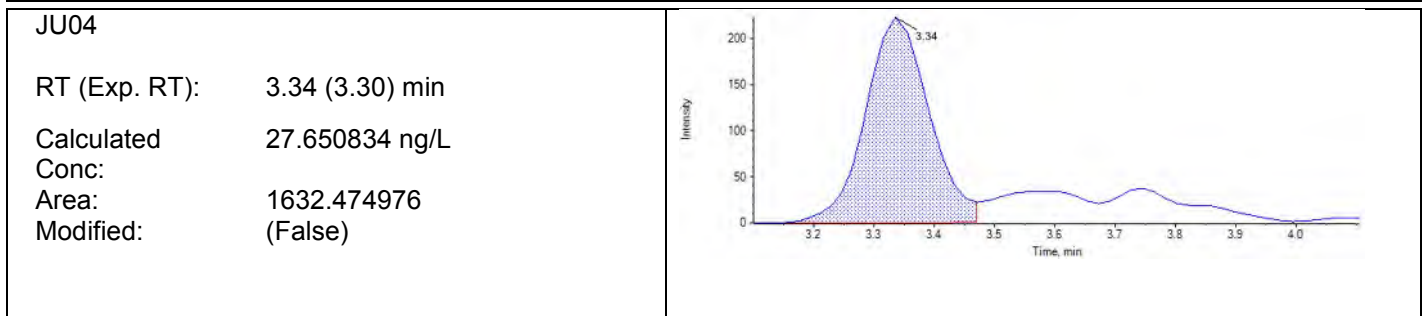
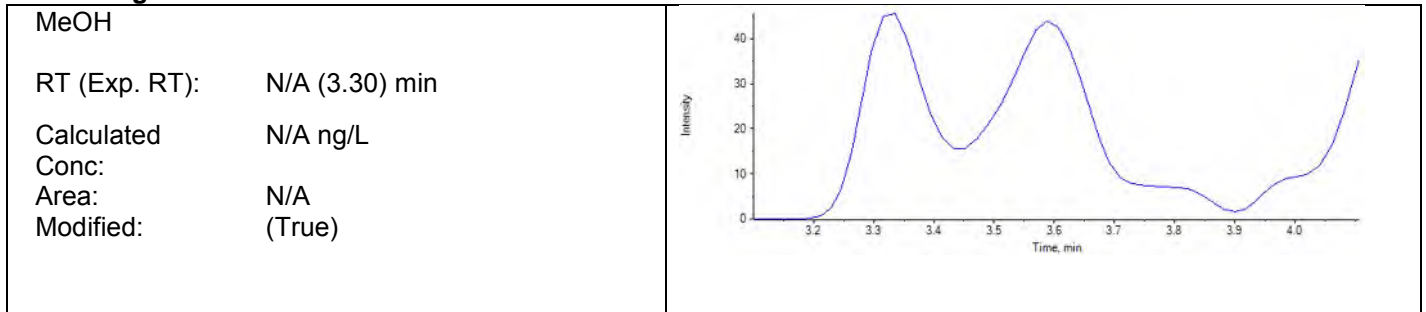
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

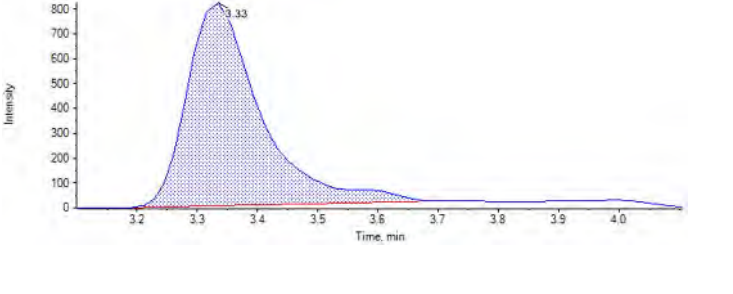
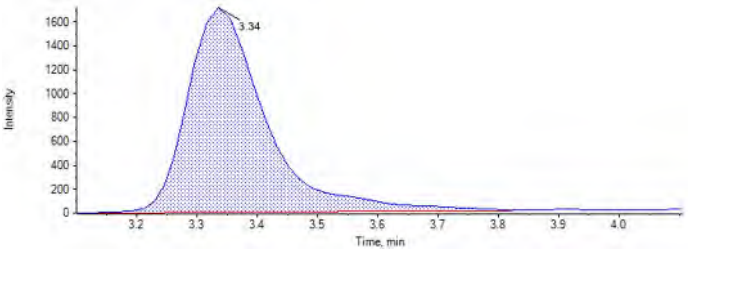
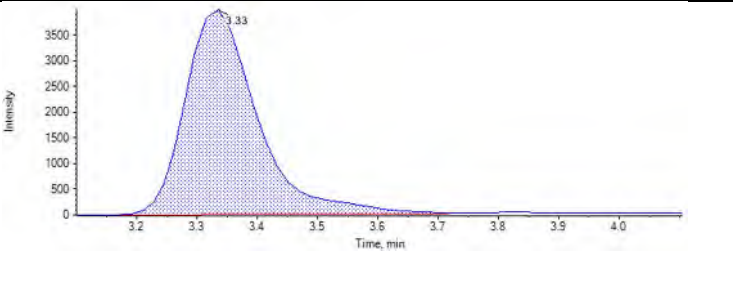
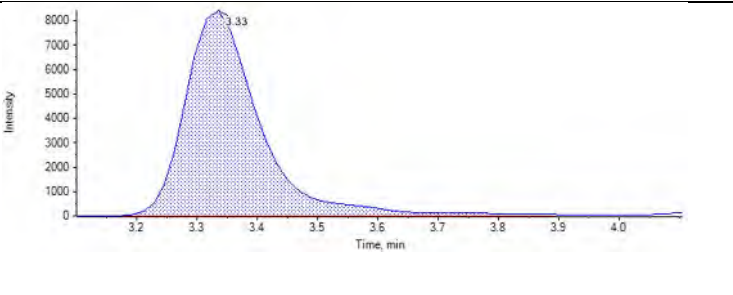
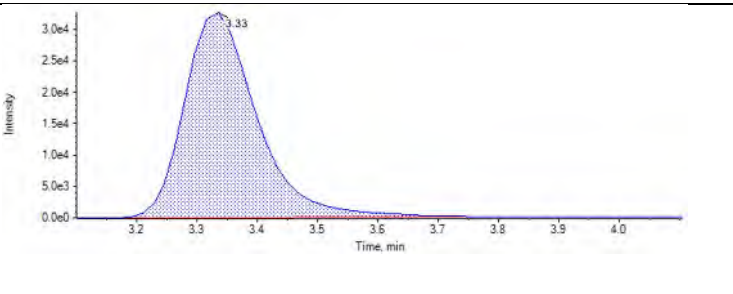
Samples:

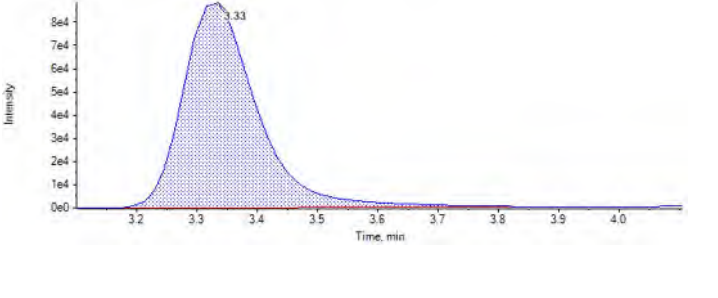
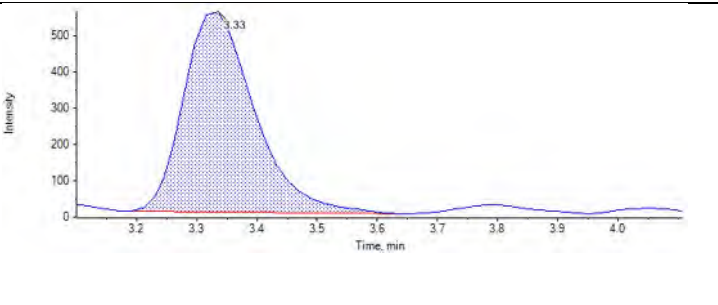
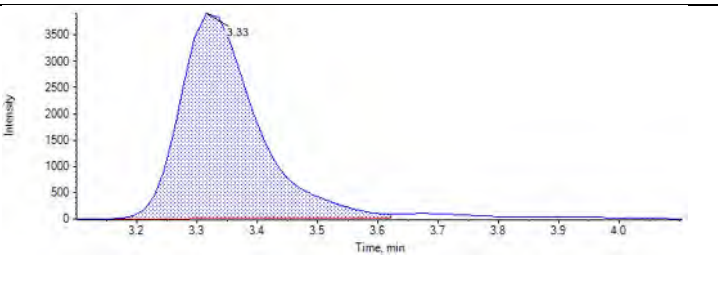
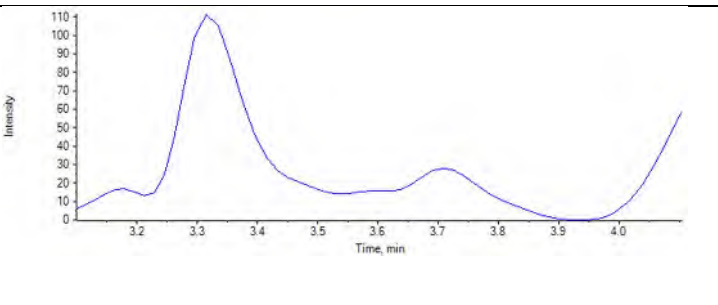
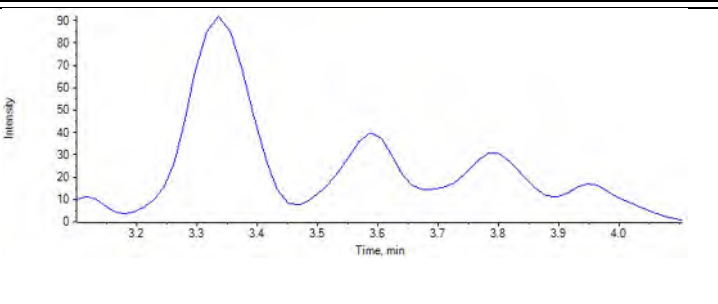
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1632	3.34	6367	25.00000	27.650834	111
JU05	Standard	3/29/2018 7:57:30 PM	1952	3.34	6113	50.00000	40.640841	81
JU06	Standard	3/29/2018 8:08:16 PM	3689	3.34	7990	100.00000	70.096948	70
JU07	Standard	3/29/2018 8:19:03 PM	6974	3.33	5664	250.00000	229.533991	92
JU08	Standard	3/29/2018 8:29:49 PM	15449	3.34	5607	500.00000	546.889443	109
JU09	Standard	3/29/2018 8:40:36 PM	33099	3.33	5285	1000.00000	1285.828032	129
JU10	Standard	3/29/2018 8:51:22 PM	71765	3.33	5030	2500.00000	3019.444766	121
JU11	Standard	3/29/2018 9:02:09 PM	273220	3.33	7440	10000.00000	8302.470284	83
JU12	Standard	3/29/2018 9:12:55 PM	755274	3.33	9562	20000.00000	21088.210110	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	4543	3.33	6596	N/A	117.082395	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	34459	3.33	7442	1000.00000	940.356425	94
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6741	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	569	3.32	3932	N/A	4.561311	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	70676	3.33	6026	N/A	2462.046984	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	595	3.34	2854	N/A	17.719170	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	4519	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5607	N/A	N/A	N/A

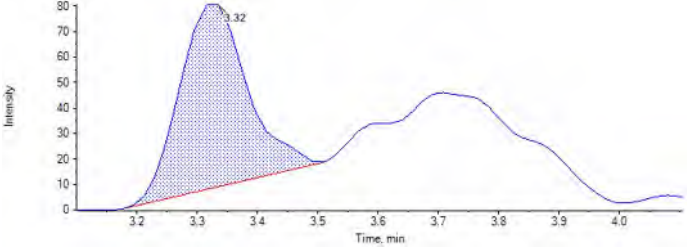
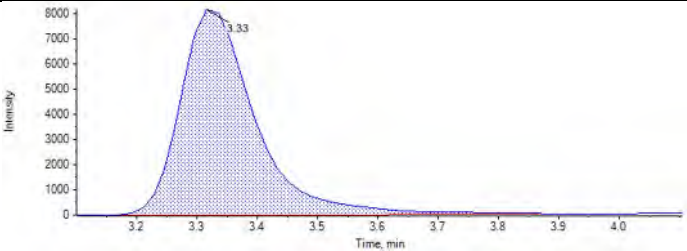
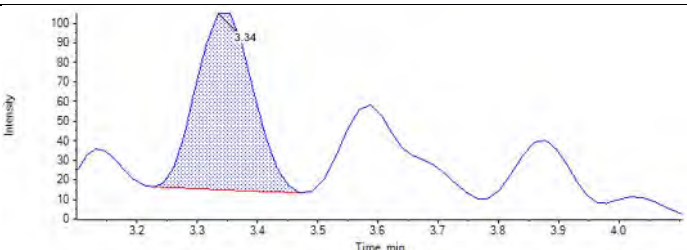
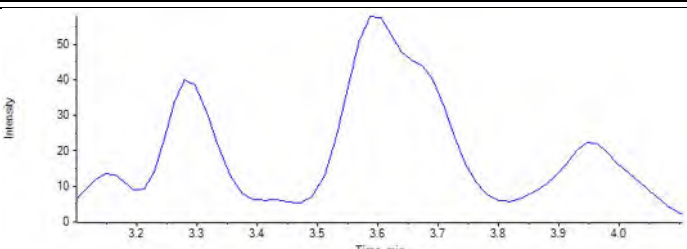
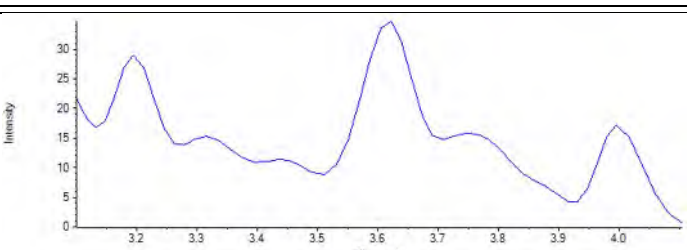
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	32125	3.32	6215	1000.00000	1053.920912	105

Chromatograms:



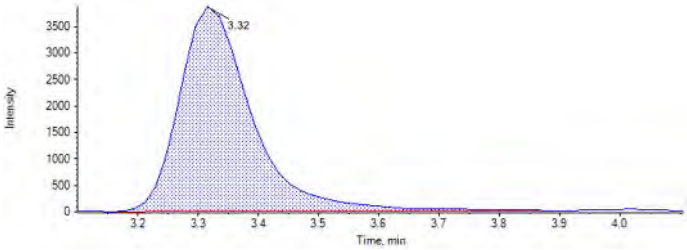
<p>JU07</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 229.533991 ng/L</p> <p>Area: 6974.468547</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 546.889443 ng/L</p> <p>Area: 15449.449959</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 1285.828032 ng/L</p> <p>Area: 33099.456756</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 3019.444766 ng/L</p> <p>Area: 71765.482752</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 8302.470284 ng/L</p> <p>Area: 273220.008481</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 21088.210110 ng/L</p> <p>Area: 755273.726320</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 117.082395 ng/L</p> <p>Area: 4543.293876</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 940.356425 ng/L</p> <p>Area: 34459.154234</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.32 (3.30) min</p> <p>Calculated Conc: 4.561311 ng/L</p> <p>Area: 568.655950</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.30) min</p> <p>Calculated Conc: 2462.046984 ng/L</p> <p>Area: 70675.626632</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 17.719170 ng/L</p> <p>Area: 594.528955</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.32 (3.30) min
Calculated Conc: 1053.920912 ng/L
Area: 32125.016759
Modified: (False)



Analyte: NETFOSAA_1 (584.0 / 419.0)

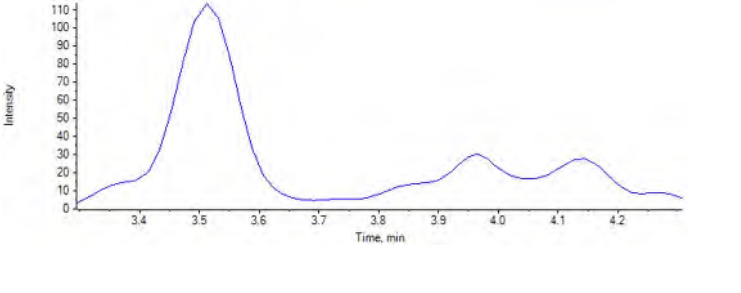
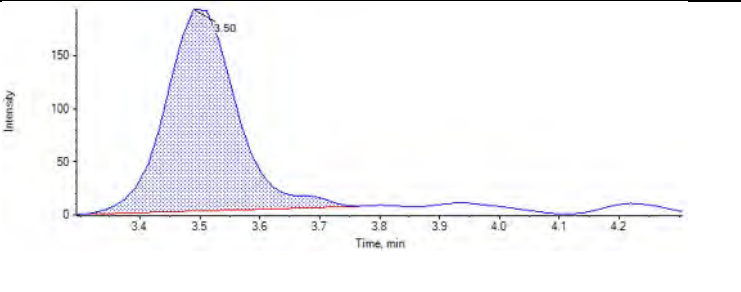
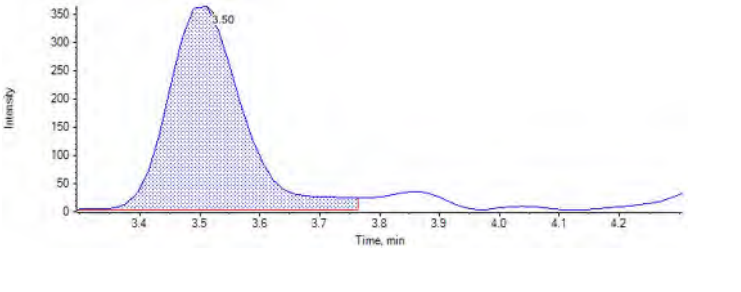
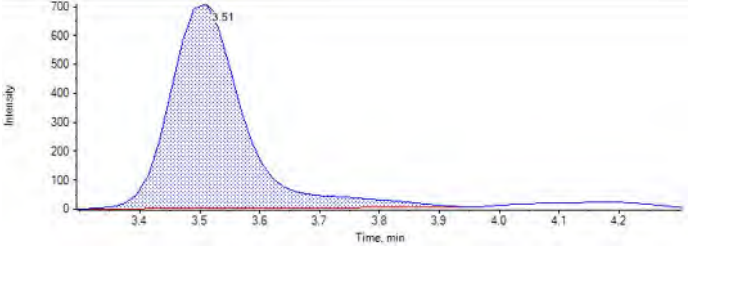
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

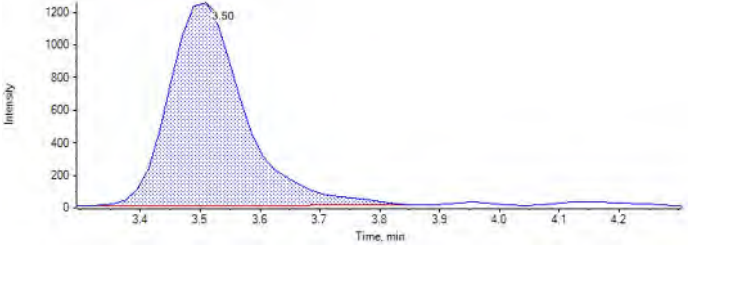
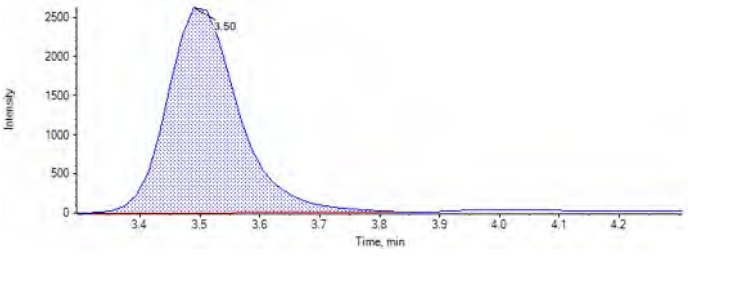
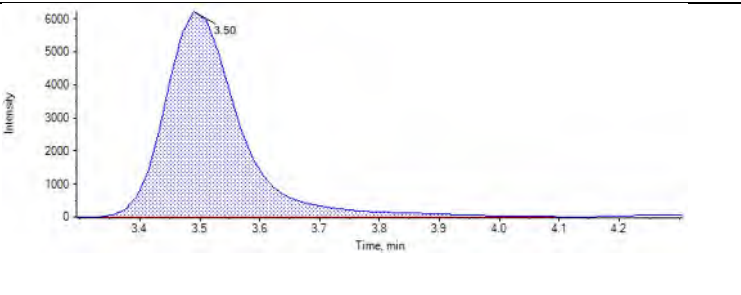
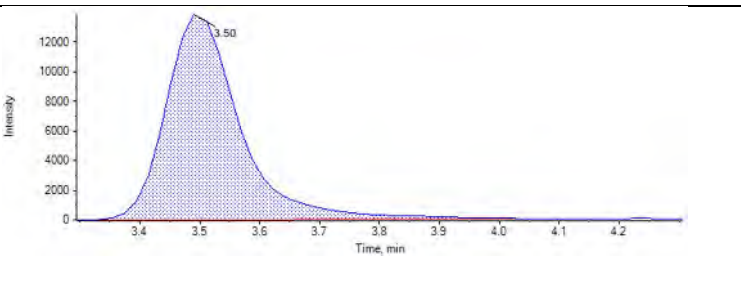
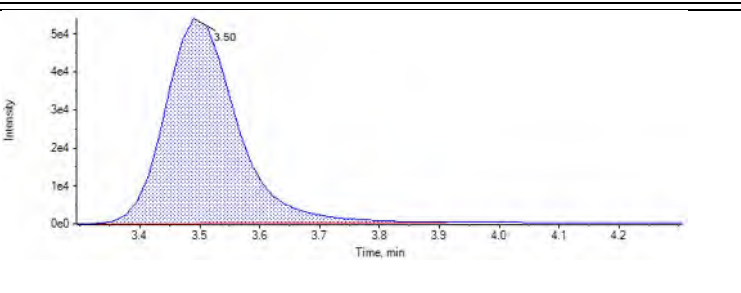
Samples:

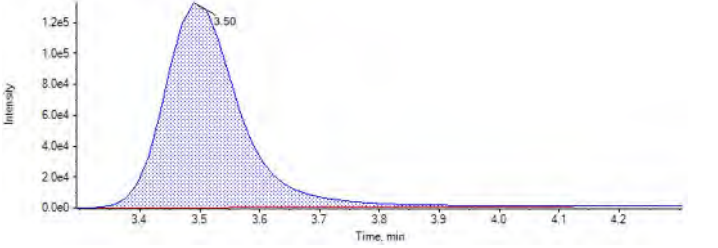
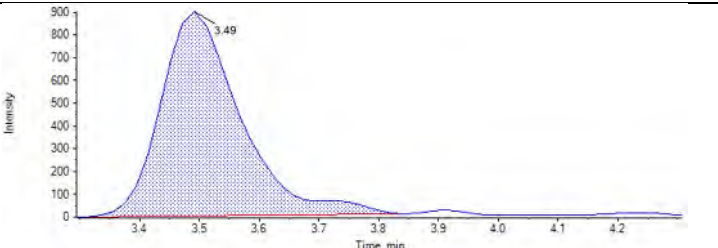
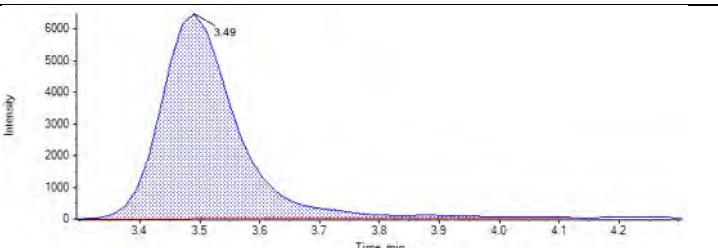
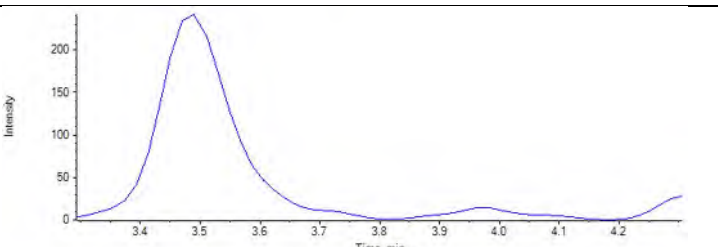
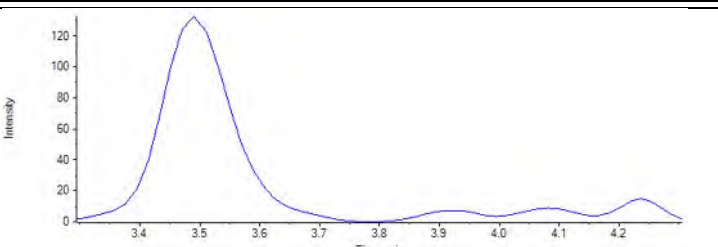
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1582	3.50	7166	25.00000	25.089843	100
JU05	Standard	3/29/2018 7:57:30 PM	3092	3.50	7427	50.00000	50.987744	102
JU06	Standard	3/29/2018 8:08:16 PM	6030	3.51	7311	100.00000	105.048487	105
JU07	Standard	3/29/2018 8:19:03 PM	10949	3.50	5896	250.00000	241.694137	97
JU08	Standard	3/29/2018 8:29:49 PM	21793	3.50	6189	500.00000	462.018768	92
JU09	Standard	3/29/2018 8:40:36 PM	53491	3.50	6736	1000.00000	1047.054598	105
JU10	Standard	3/29/2018 8:51:22 PM	119005	3.50	6458	2500.00000	2435.103646	97
JU11	Standard	3/29/2018 9:02:09 PM	449432	3.50	5815	10000.00000	10227.125206	102
JU12	Standard	3/29/2018 9:12:55 PM	1161080	3.50	7749	20000.00000	19830.877572	99
JP83 IB	Unknown	3/29/2018 9:23:42 PM	8339	3.49	7880	N/A	135.958857	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	56365	3.49	6492	1000.00000	1145.121580	115
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	7204	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1606	3.48	3826	N/A	51.436599	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	118076	3.49	5268	N/A	2962.710584	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1539	3.50	4402	N/A	42.152243	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	595	3.48	3913	N/A	15.988715	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5567	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	54772	3.49	5766	1000.00000	1253.275267	125

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 25.089843 ng/L</p> <p>Area: 1581.913907</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 50.987744 ng/L</p> <p>Area: 3092.391531</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 105.048487 ng/L</p> <p>Area: 6029.851195</p> <p>Modified: (False)</p>	

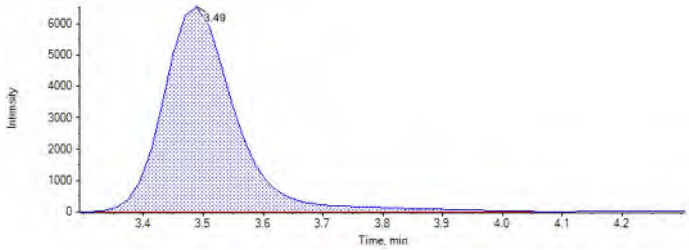
<p>JU07</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 241.694137 ng/L</p> <p>Area: 10949.367648</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 462.018768 ng/L</p> <p>Area: 21792.813244</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 1047.054598 ng/L</p> <p>Area: 53490.779634</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 2435.103646 ng/L</p> <p>Area: 119005.296522</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 10227.125206 ng/L</p> <p>Area: 449431.910492</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 19830.877572 ng/L</p> <p>Area: 1161080.409640</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 135.958857 ng/L</p> <p>Area: 8339.098839</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 1145.121580 ng/L</p> <p>Area: 56365.423231</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.40) min</p> <p>Calculated Conc: 51.436599 ng/L</p> <p>Area: 1606.099053</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 2962.710584 ng/L</p> <p>Area: 118076.481699</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 42.152243 ng/L</p> <p>Area: 1539.193694</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.40) min</p> <p>Calculated Conc: 15.988715 ng/L</p> <p>Area: 594.737119</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.49 (3.40) min
Calculated Conc: 1253.275267 ng/L
Area: 54772.000159
Modified: (False)



Analyte: NETFOSAA_2 (584.0 / 483.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

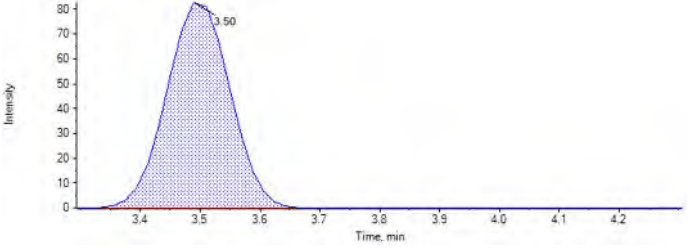
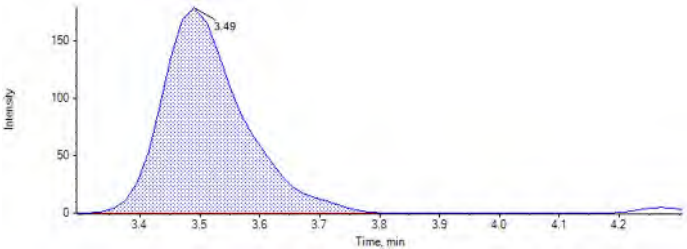
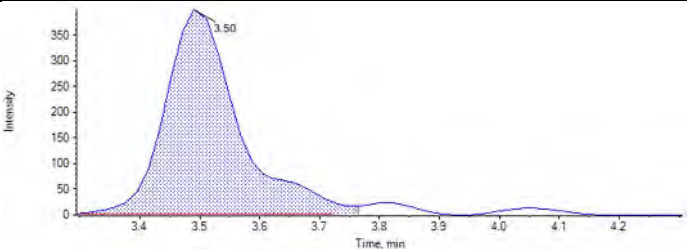
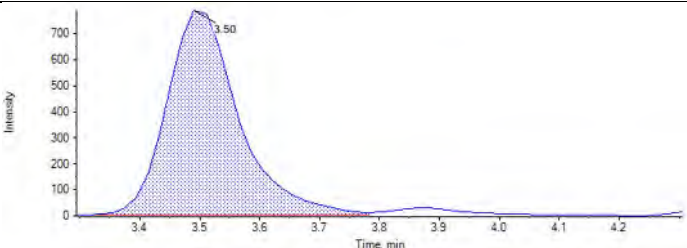
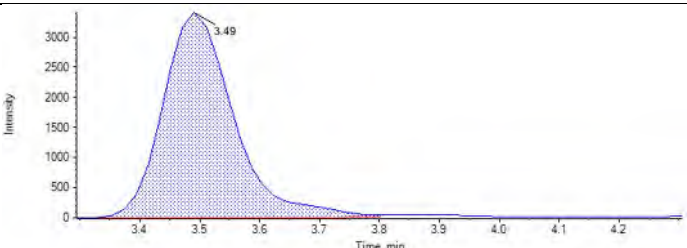
Samples:

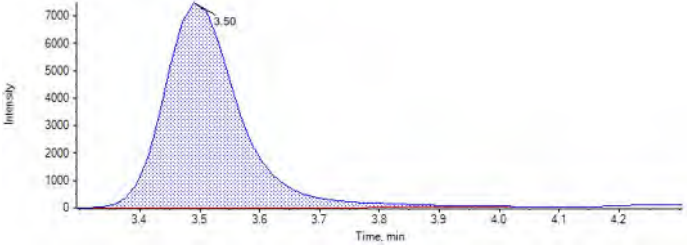
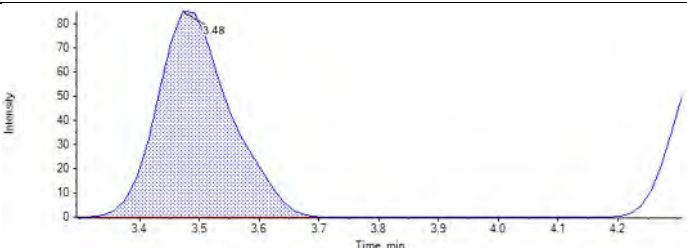
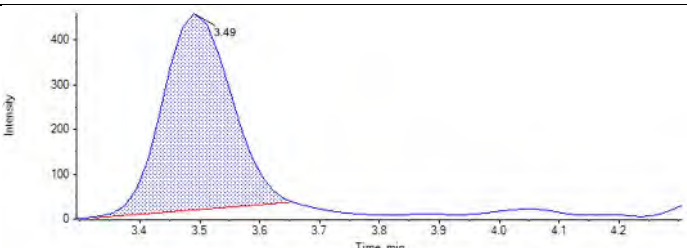
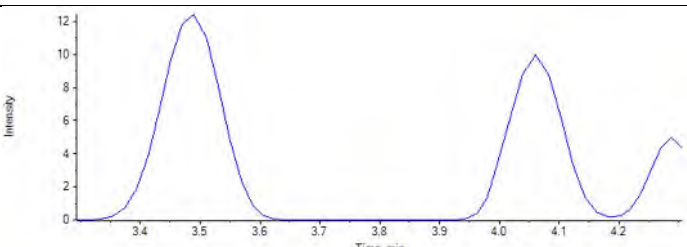
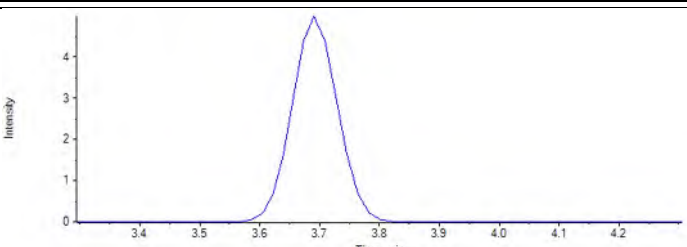
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	287	3.52	7166	25.00000	92.065604	368
JU05	Standard	3/29/2018 7:57:30 PM	113	3.51	7427	50.00000	35.851083	72
JU06	Standard	3/29/2018 8:08:16 PM	322	3.50	7311	100.00000	100.927486	101
JU07	Standard	3/29/2018 8:19:03 PM	614	3.50	5896	250.00000	237.021437	95
JU08	Standard	3/29/2018 8:29:49 PM	1653	3.49	6189	500.00000	606.268765	121
JU09	Standard	3/29/2018 8:40:36 PM	3412	3.50	6736	1000.00000	1148.398097	115
JU10	Standard	3/29/2018 8:51:22 PM	6577	3.50	6458	2500.00000	2307.175978	92
JU11	Standard	3/29/2018 9:02:09 PM	27916	3.49	5815	10000.00000	10871.876953	109
JU12	Standard	3/29/2018 9:12:55 PM	65333	3.50	7749	20000.00000	19092.480200	95
JP83 IB	Unknown	3/29/2018 9:23:42 PM	723	3.48	7880	N/A	208.964181	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	3494	3.49	6492	1000.00000	1219.963273	122
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	7204	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	3826	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	5990	3.49	5268	N/A	2575.806244	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	117	3.47	4402	N/A	61.486467	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	3913	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5567	N/A	N/A	N/A

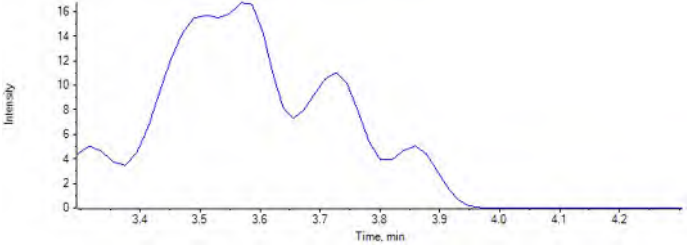
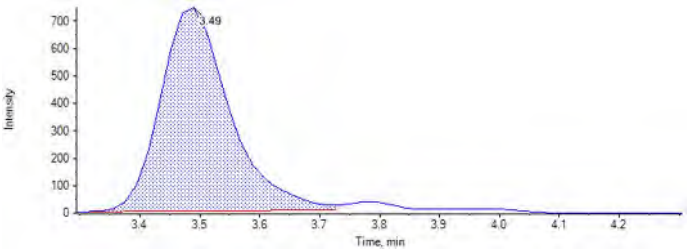
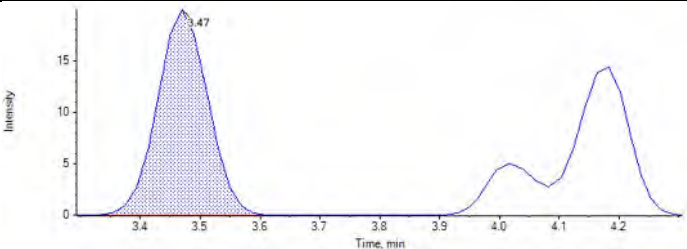
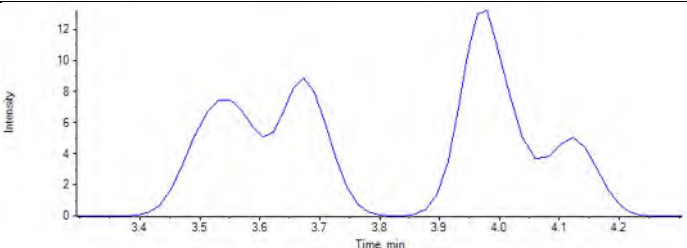
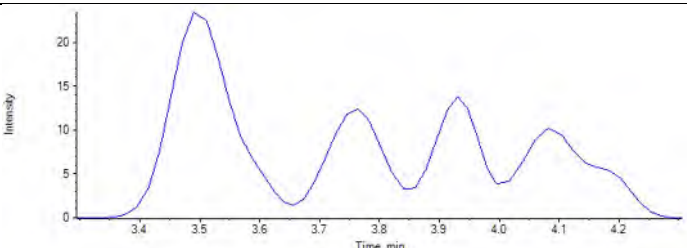
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	3286	3.49	5766	1000.00000	1291.713214	129

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 92.065604 ng/L</p> <p>Area: 287.109325</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 35.851083 ng/L</p> <p>Area: 113.169395</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 100.927486 ng/L</p> <p>Area: 321.519454</p> <p>Modified: (False)</p>	

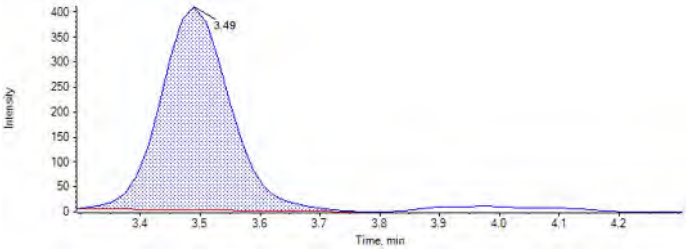
<p>JU07</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 237.021437 ng/L</p> <p>Area: 613.683677</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 606.268765 ng/L</p> <p>Area: 1653.320790</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 1148.398097 ng/L</p> <p>Area: 3412.343691</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 2307.175978 ng/L</p> <p>Area: 6576.736812</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 10871.876953 ng/L</p> <p>Area: 27916.208577</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 19092.480200 ng/L</p> <p>Area: 65332.970026</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.48 (3.40) min</p> <p>Calculated Conc: 208.964181 ng/L</p> <p>Area: 722.510575</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 1219.963273 ng/L</p> <p>Area: 3494.095418</p> <p>Modified: (True)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.40) min</p> <p>Calculated Conc: 2575.806244 ng/L</p> <p>Area: 5989.985207</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.47 (3.40) min</p> <p>Calculated Conc: 61.486467 ng/L</p> <p>Area: 116.921038</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

JU09 CCV

RT (Exp. RT): 3.49 (3.40) min
Calculated Conc: 1291.713214 ng/L
Area: 3285.991908
Modified: (False)



Analyte: PFBA (213.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	19104	1.07	28770	25.00000	17.241044	69
JU05	Standard	3/29/2018 7:57:30 PM	25153	1.07	28470	50.00000	44.113279	88
JU06	Standard	3/29/2018 8:08:16 PM	41692	1.05	28920	100.00000	112.419718	112
JU07	Standard	3/29/2018 8:19:03 PM	62131	1.04	23550	250.00000	258.858121	104
JU08	Standard	3/29/2018 8:29:49 PM	97169	1.04	24390	500.00000	423.629329	85
JU09	Standard	3/29/2018 8:40:36 PM	292405	1.03	30000	1000.00000	1129.039886	113
JU10	Standard	3/29/2018 8:51:22 PM	497078	1.03	25120	2500.00000	2357.771243	94
JU11	Standard	3/29/2018 9:02:09 PM	1871940	1.03	21280	10000.00000	10699.785937	107
JU12	Standard	3/29/2018 9:12:55 PM	4819435	1.03	30340	20000.00000	19374.382488	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	26282	1.07	30920	N/A	40.027192	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	238832	1.03	27570	1000.00000	996.253548	100
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	28100	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	17410	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	519704	1.03	25710	N/A	2409.546216	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	18060	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22710	N/A	N/A	N/A

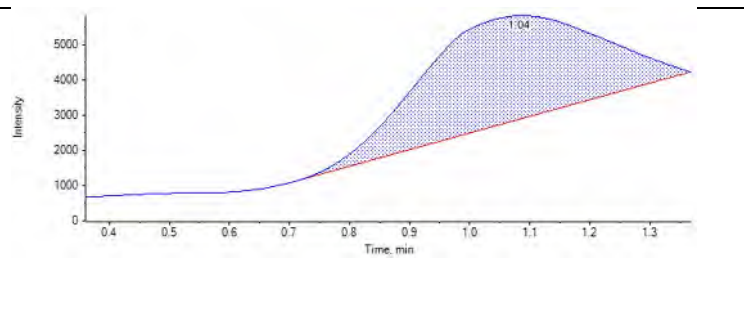
Not being used in this calibration DMS 4/6/18

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	271572	1.03	24930	1000.00000	1269.397362	127

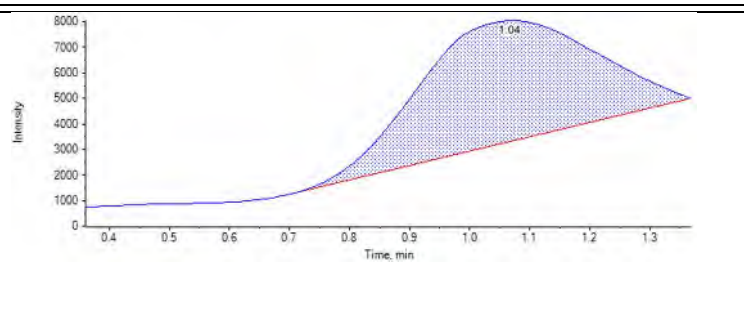
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.07 (1.00) min</p> <p>Calculated Conc: 17.241041 ng/L</p> <p>Area: 19103.914883</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.07 (1.00) min</p> <p>Calculated Conc: 44.113279 ng/L</p> <p>Area: 25153.206213</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 112.419718 ng/L</p> <p>Area: 41692.077256</p> <p>Modified: (False)</p>	

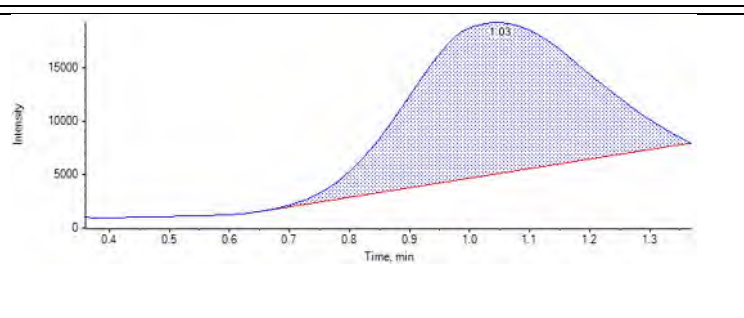
JU07
 RT (Exp. RT): 1.04 (1.00) min
 Calculated Conc: 258.858121 ng/L
 Area: 62130.885563
 Modified: (False)



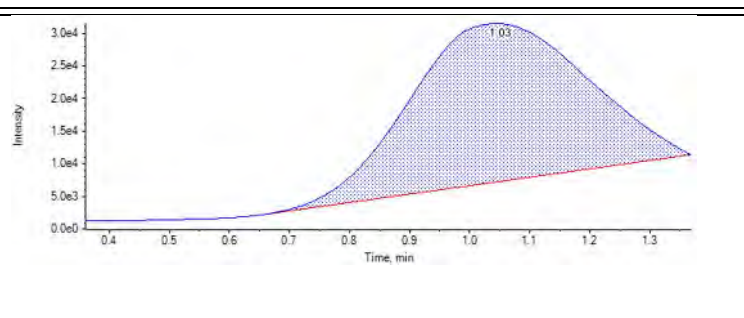
JU08
 RT (Exp. RT): 1.04 (1.00) min
 Calculated Conc: 423.629329 ng/L
 Area: 97168.907444
 Modified: (False)



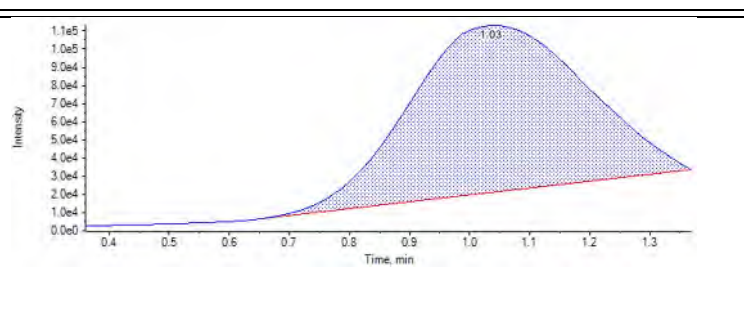
JU09
 RT (Exp. RT): 1.03 (1.00) min
 Calculated Conc: 1129.039886 ng/L
 Area: 292405.284058
 Modified: (False)



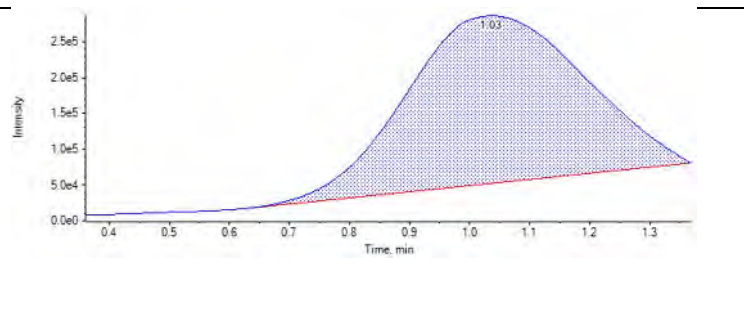
JU10
 RT (Exp. RT): 1.03 (1.00) min
 Calculated Conc: 2357.771243 ng/L
 Area: 497078.097724
 Modified: (False)



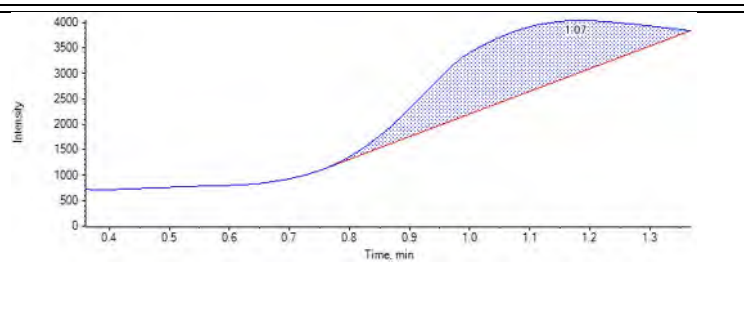
JU11
 RT (Exp. RT): 1.03 (1.00) min
 Calculated Conc: 10699.785937 ng/L
 Area: 1871939.746147
 Modified: (False)



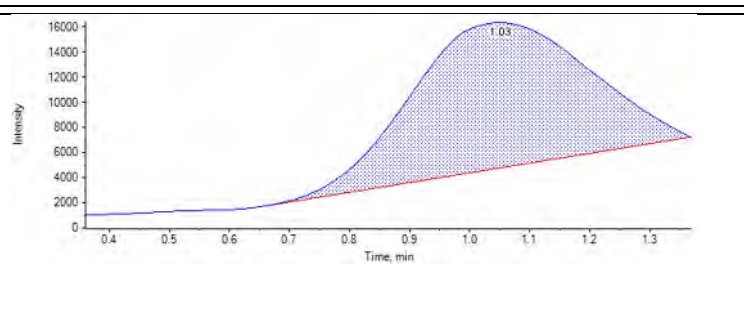
JU12
 RT (Exp. RT): 1.03 (1.00) min
 Calculated Conc: 19374.382488 ng/L
 Area: 4819434.769982
 Modified: (False)



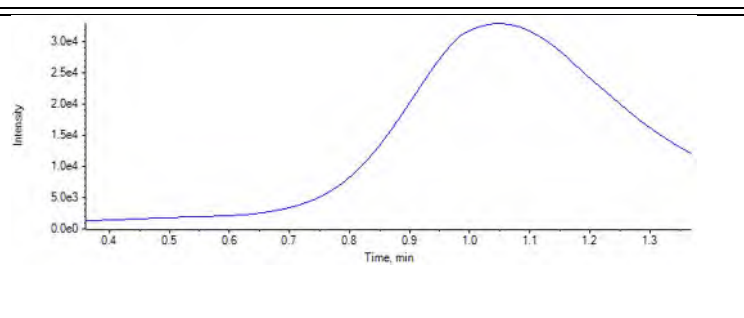
JP83 IB
 RT (Exp. RT): 1.07 (1.00) min
 Calculated Conc: 40.027192 ng/L
 Area: 26281.720155
 Modified: (False)



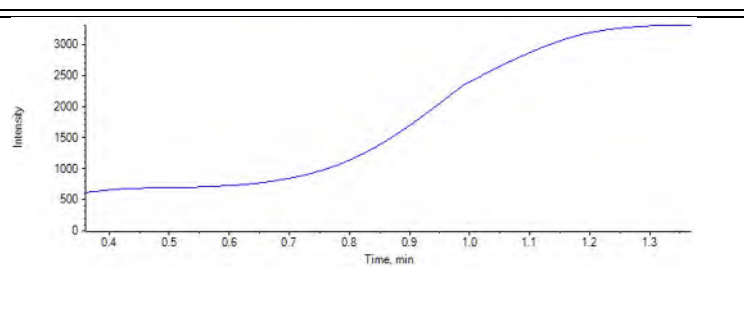
JU13 ICC
 RT (Exp. RT): 1.03 (1.00) min
 Calculated Conc: 996.253548 ng/L
 Area: 238832.490299
 Modified: (False)



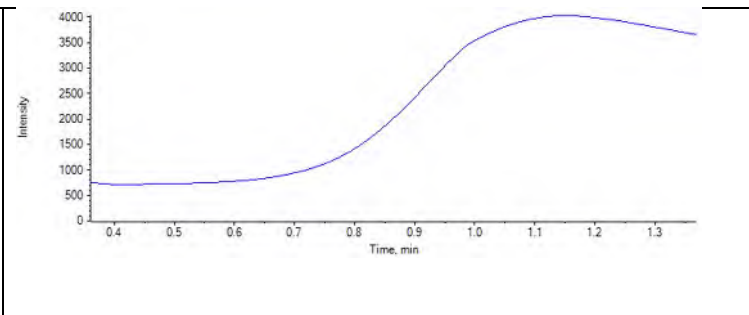
JU38 Branch
 RT (Exp. RT): N/A (1.00) min
 Calculated Conc: N/A ng/L
 Area: N/A
 Modified: (True)



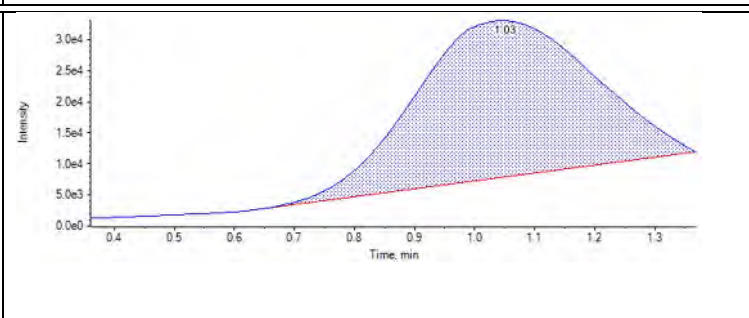
MeOH
 RT (Exp. RT): N/A (1.00) min
 Calculated Conc: N/A ng/L
 Area: N/A
 Modified: (True)



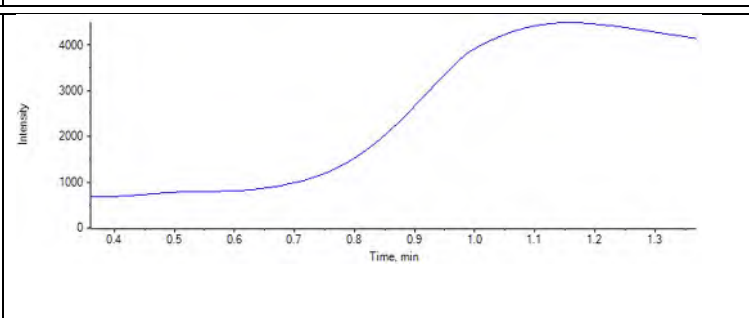
CQ350PB-FS(3)	
RT (Exp. RT):	N/A (1.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



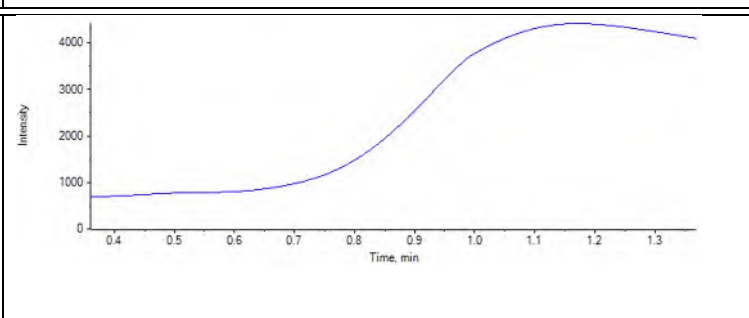
CQ351LCS-FS(3)	
RT (Exp. RT):	1.03 (1.00) min
Calculated Conc:	2409.546216 ng/L
Area:	519704.191833
Modified:	(False)



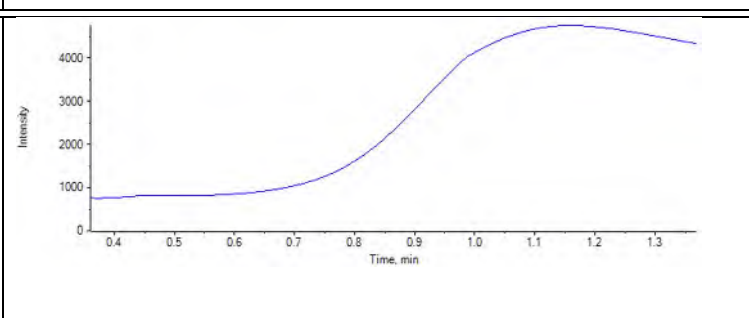
J5386-FS(3)	
RT (Exp. RT):	N/A (1.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



J5391-FS(3)	
RT (Exp. RT):	N/A (1.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)

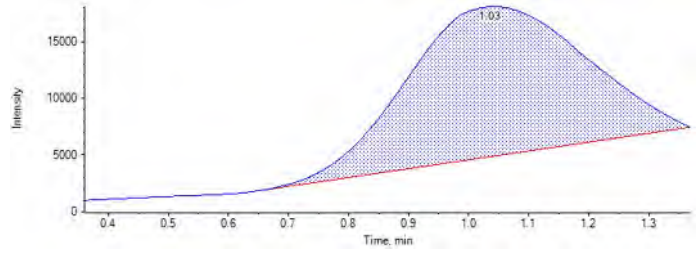


J5393-FS(3)	
RT (Exp. RT):	N/A (1.00) min
Calculated Conc:	N/A ng/L
Area:	N/A
Modified:	(True)



JU09 CCV

RT (Exp. RT): 1.03 (1.00) min
Calculated Conc: 1269.397362 ng/L
Area: 271571.542398
Modified: (False)



Analyte: 13C2-PFDoA (615.0 / 570.0)

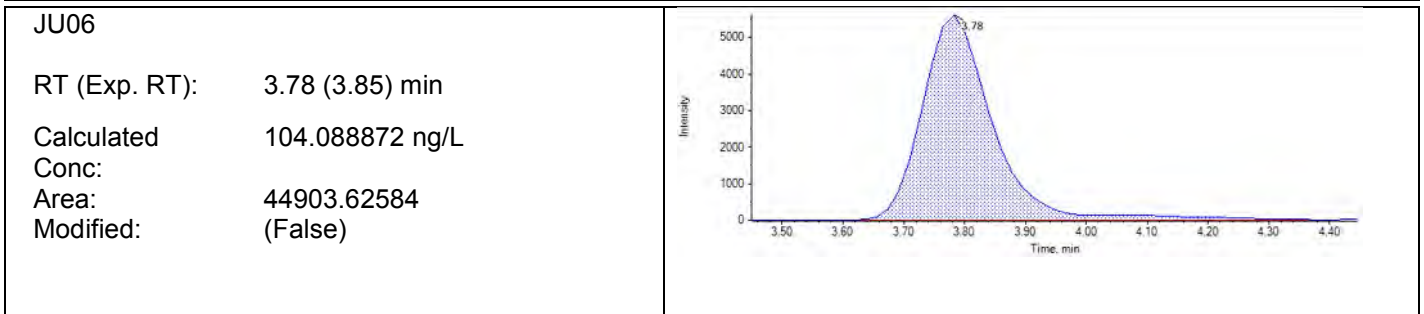
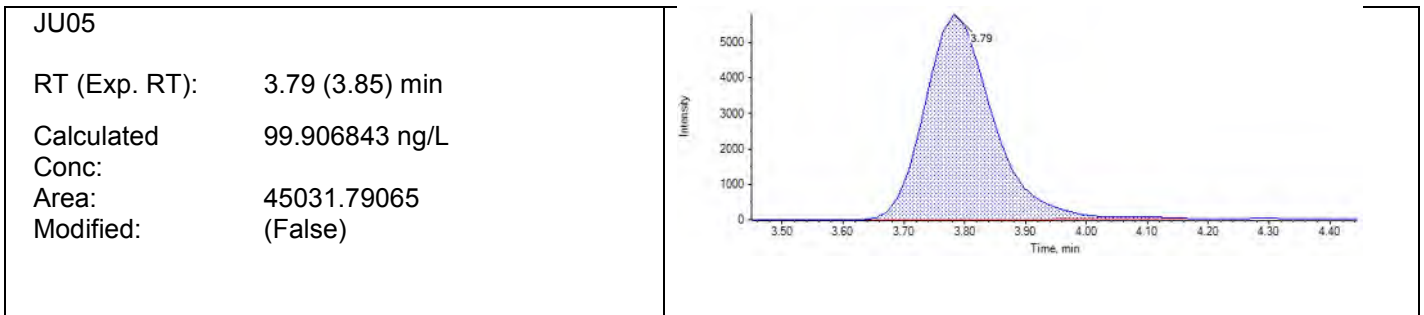
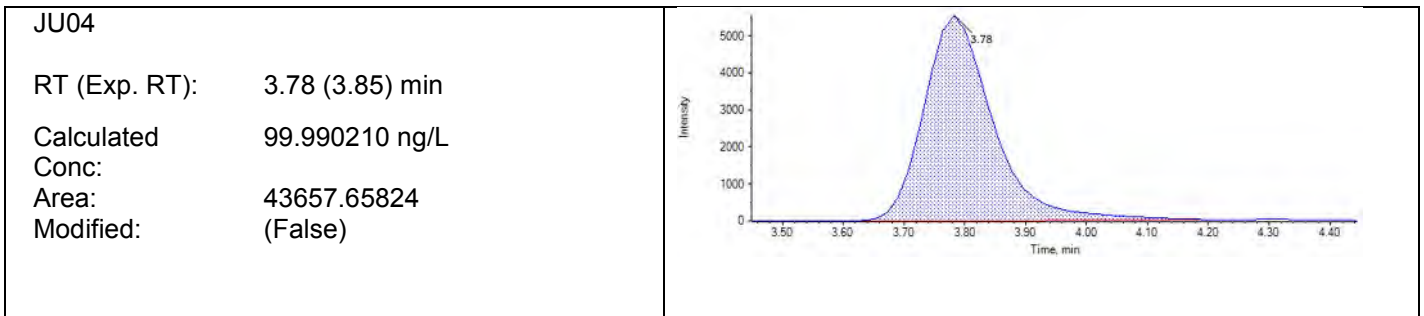
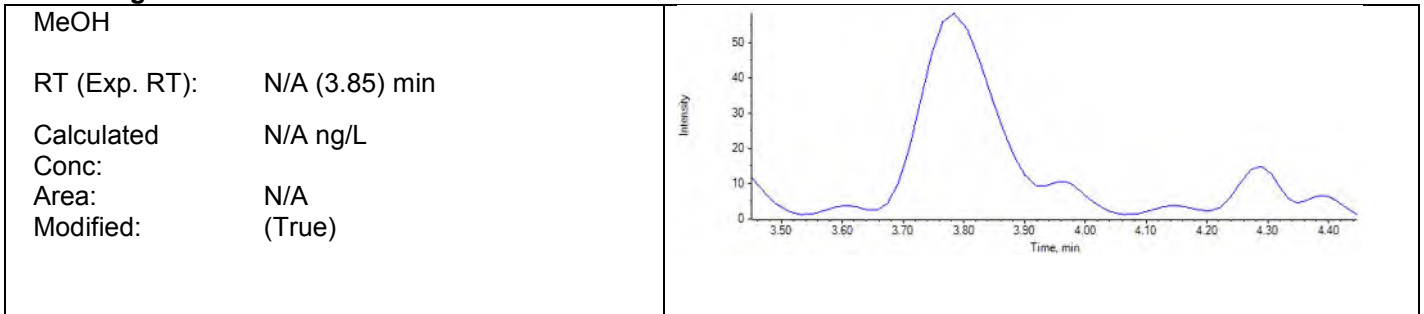
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

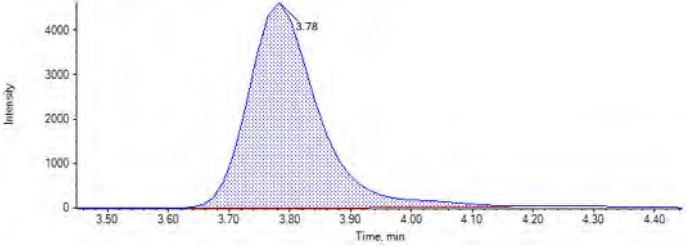
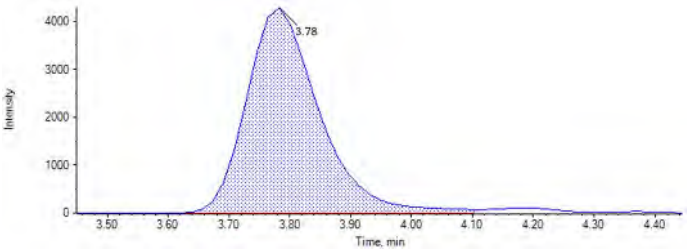
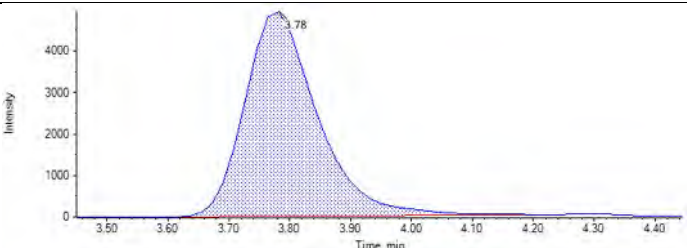
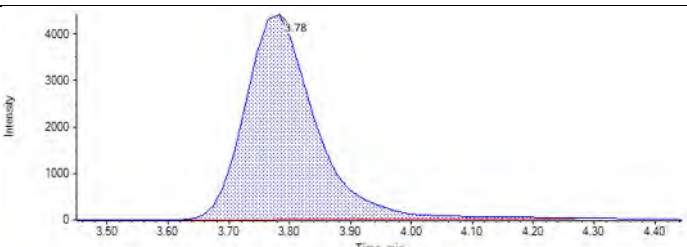
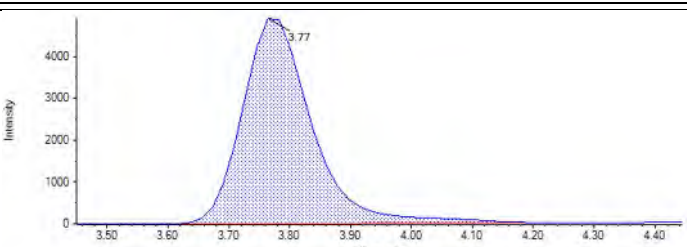
Samples:

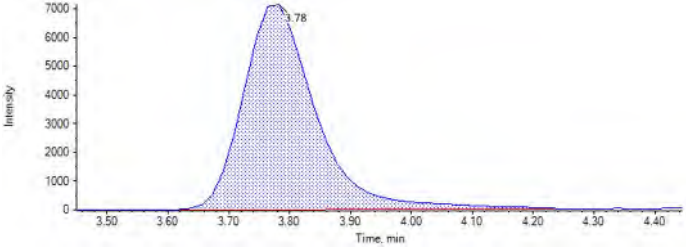
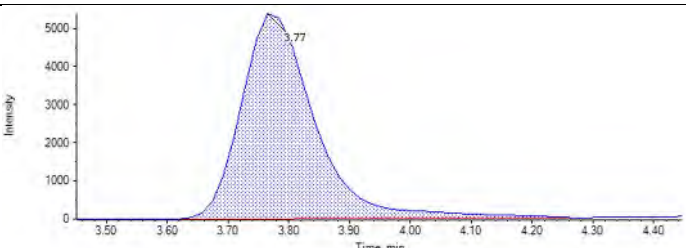
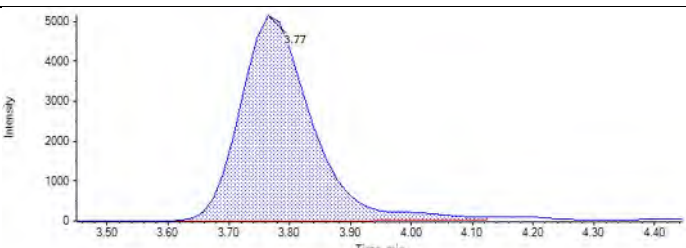
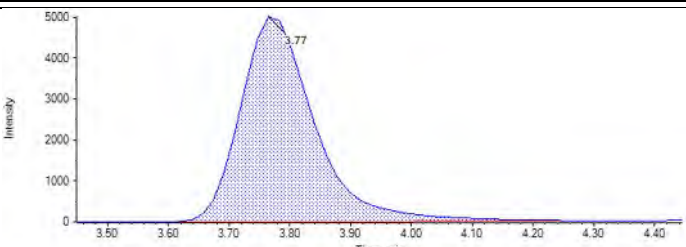
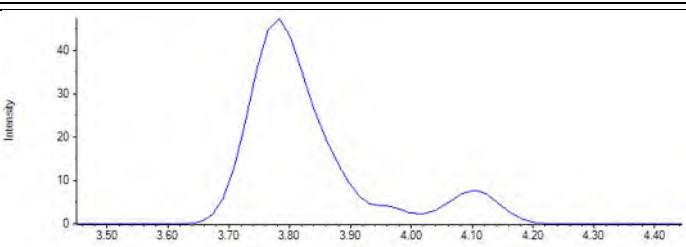
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	43658	3.78	42510	100.00000	99.990210	100
JU05	Standard	3/29/2018 7:57:30 PM	45032	3.79	43880	100.00000	99.906843	100
JU06	Standard	3/29/2018 8:08:16 PM	44904	3.78	42000	100.00000	104.088872	104
JU07	Standard	3/29/2018 8:19:03 PM	36779	3.78	35150	100.00000	101.862292	102
JU08	Standard	3/29/2018 8:29:49 PM	35309	3.78	36890	100.00000	93.193316	93
JU09	Standard	3/29/2018 8:40:36 PM	40800	3.78	40570	100.00000	97.906595	98
JU10	Standard	3/29/2018 8:51:22 PM	35240	3.78	37640	100.00000	91.145113	91
JU11	Standard	3/29/2018 9:02:09 PM	38998	3.77	37280	100.00000	101.847152	102
JU12	Standard	3/29/2018 9:12:55 PM	59269	3.78	52430	100.00000	110.059608	110
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	45142	3.77	45600	100.00000	96.371408	96
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	42041	3.77	40740	100.00000	100.457992	100
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	42592	3.77	39980	100.00000	103.710174	104
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	24769	3.77	27840	100.00000	86.628189	87
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	36908	3.77	39750	100.00000	90.392359	90
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	25505	3.77	30690	100.00000	80.903969	81
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	27284	3.77	34240	100.00000	77.564517	78
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	35531	3.77	39900	100.00000	86.693993	87

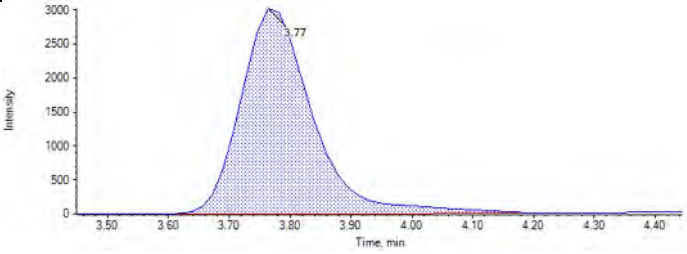
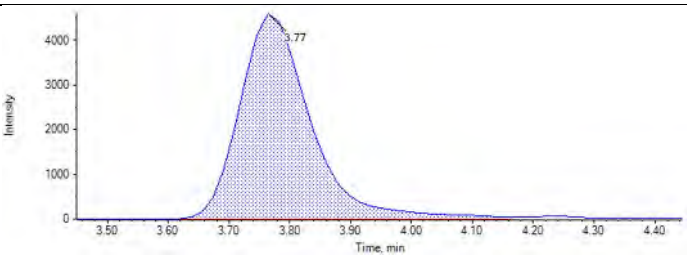
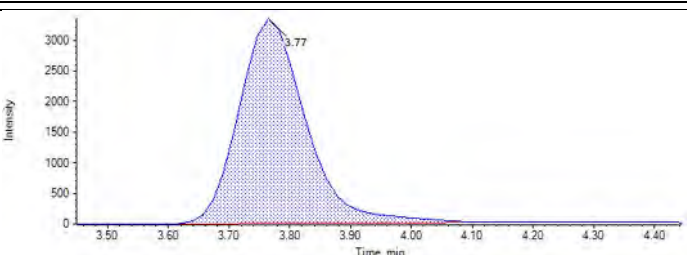
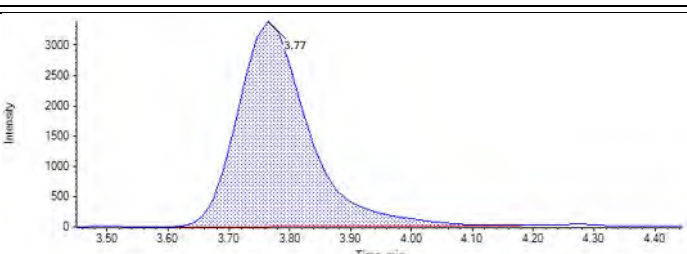
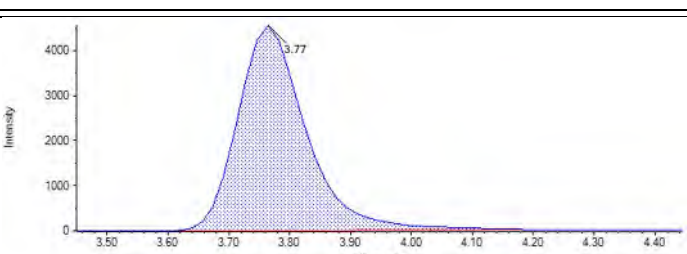
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	43077	3.76	40700	100.00000	103.035348	103

Chromatograms:



<p>JU07</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 101.862292 ng/L</p> <p>Area: 36778.88102</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 93.193316 ng/L</p> <p>Area: 35309.48882</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 97.906595 ng/L</p> <p>Area: 40800.43868</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 91.145113 ng/L</p> <p>Area: 35240.34115</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 101.847152 ng/L</p> <p>Area: 38997.62271</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 3.78 (3.85) min</p> <p>Calculated Conc: 110.059608 ng/L</p> <p>Area: 59268.81228</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 96.371408 ng/L</p> <p>Area: 45141.83372</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 100.457992 ng/L</p> <p>Area: 42040.61942</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 103.710174 ng/L</p> <p>Area: 42591.57289</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.85) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 86.628189 ng/L</p> <p>Area: 24769.04138</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 90.392359 ng/L</p> <p>Area: 36908.32184</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 80.903969 ng/L</p> <p>Area: 25505.35145</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 77.564517 ng/L</p> <p>Area: 27283.61225</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 3.77 (3.85) min</p> <p>Calculated Conc: 86.693993 ng/L</p> <p>Area: 35531.26136</p> <p>Modified: (False)</p>	

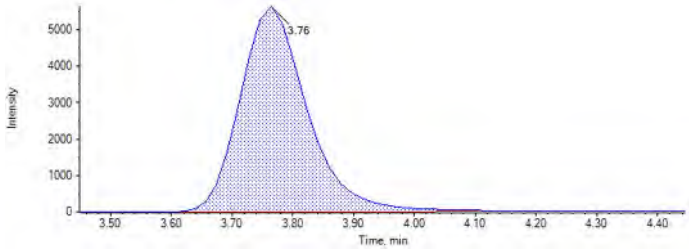
JU09 CCV

RT (Exp. RT): 3.76 (3.85) min

Calculated Conc: 103.035348 ng/L

Area: 43076.98609

Modified: (False)



Analyte: d3-MeFOSAA (573.0 / 419.0)

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

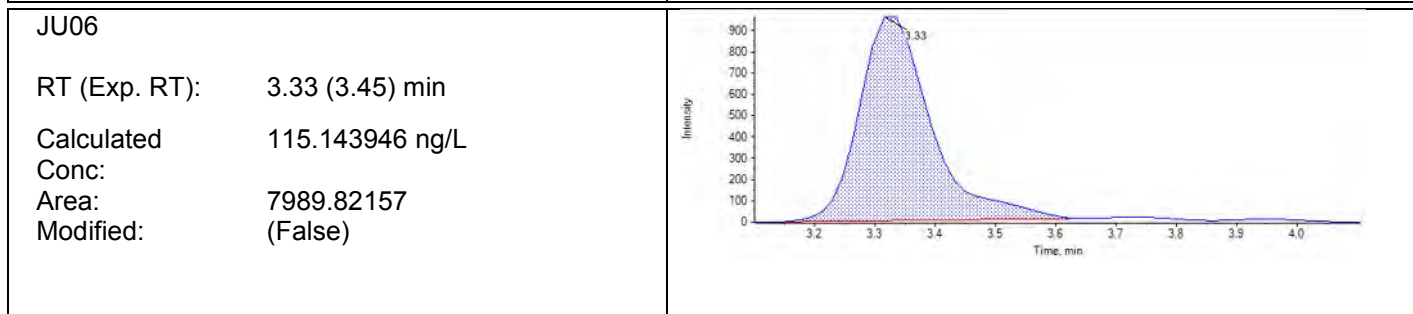
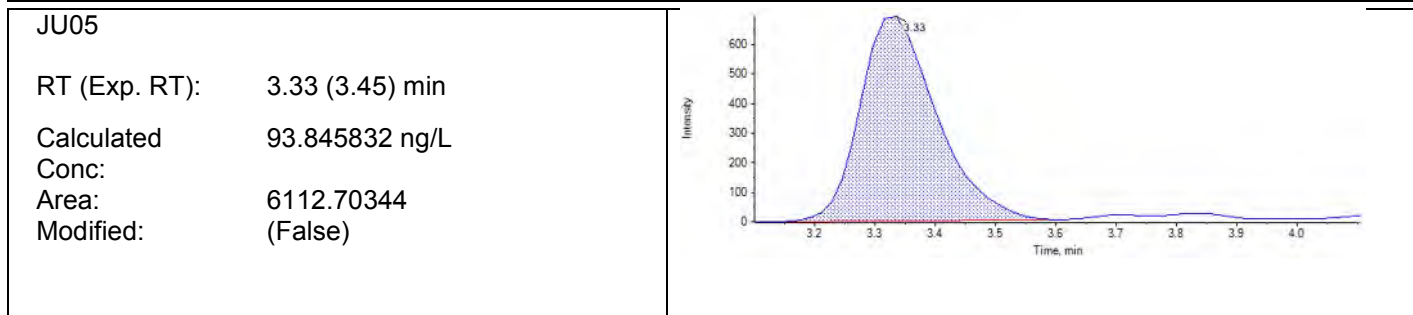
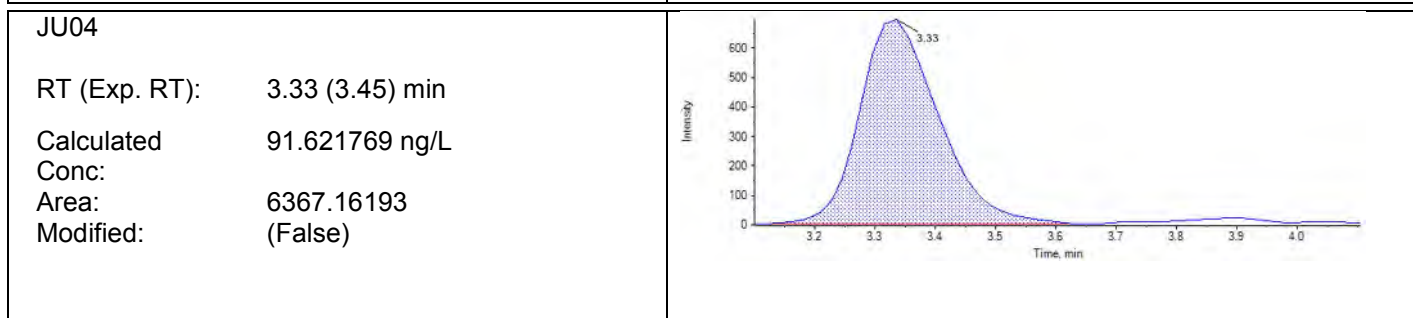
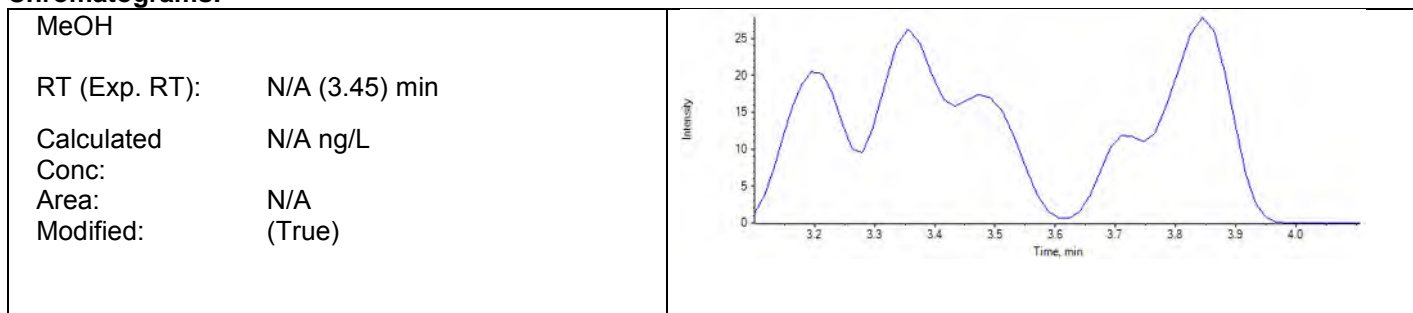
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	6367	3.33	11010	100.00000	91.621769	92
JU05	Standard	3/29/2018 7:57:30 PM	6113	3.33	10320	100.00000	93.845832	94
JU06	Standard	3/29/2018 8:08:16 PM	7990	3.33	10990	100.00000	115.143946	115
JU07	Standard	3/29/2018 8:19:03 PM	5664	3.33	8191	100.00000	109.556543	110
JU08	Standard	3/29/2018 8:29:49 PM	5607	3.33	8594	100.00000	103.368160	103
JU09	Standard	3/29/2018 8:40:36 PM	5285	3.33	10450	100.00000	80.146451	80
JU10	Standard	3/29/2018 8:51:22 PM	5030	3.33	10140	100.00000	78.614303	79
JU11	Standard	3/29/2018 9:02:09 PM	7440	3.33	9230	100.00000	127.702997	128
JU12	Standard	3/29/2018 9:12:55 PM	9562	3.33	10110	100.00000	149.794932	150
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	6596	3.33	10510	100.00000	99.382360	99
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	7442	3.32	10710	100.00000	110.113546	110
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	6741	3.32	10090	100.00000	105.829468	106
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	3932	3.32	5505	100.00000	113.172992	113
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	6026	3.33	9766	100.00000	97.748033	98
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	2854	3.31	6756	100.00000	66.929915	67
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	4519	3.32	8856	100.00000	80.843136	81
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	5607	3.32	8973	100.00000	98.987830	99

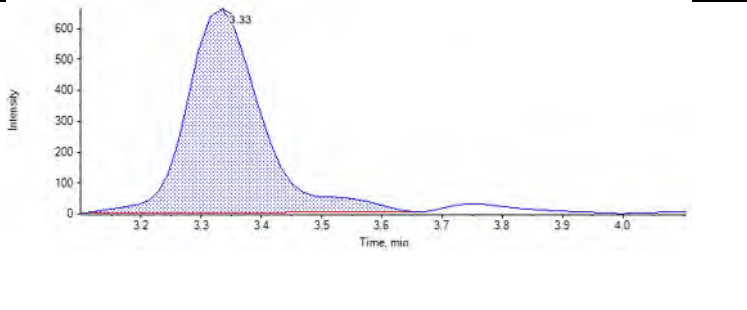
Not being used in this calibration.
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	6215	3.31	10100	100.00000	97.531614	98

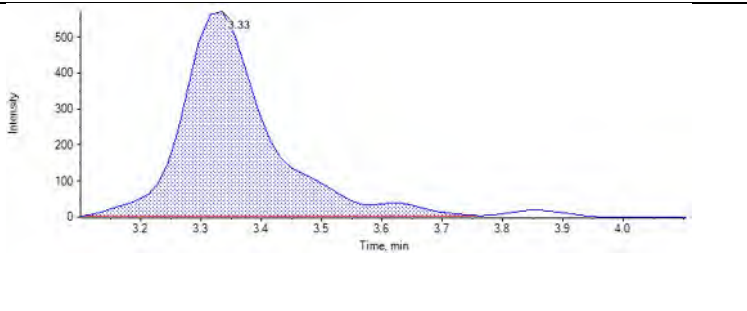
Chromatograms:



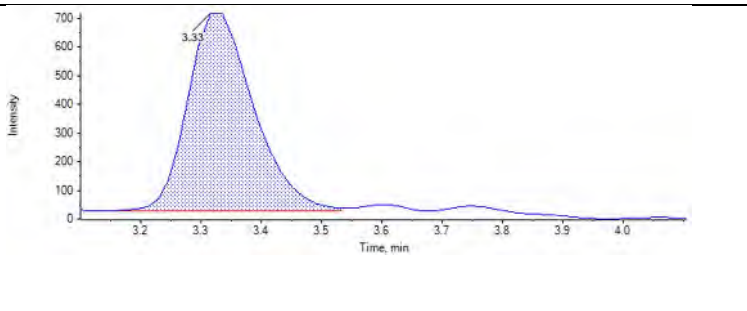
JU07
RT (Exp. RT): 3.33 (3.45) min
Calculated Conc: 109.556543 ng/L
Area: 5663.87615
Modified: (False)



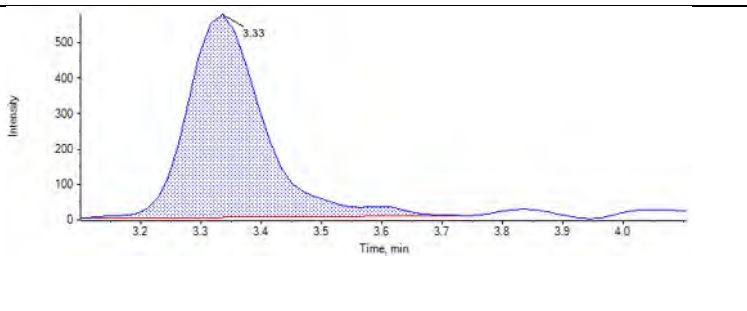
JU08
RT (Exp. RT): 3.33 (3.45) min
Calculated Conc: 103.368160 ng/L
Area: 5606.85119
Modified: (False)



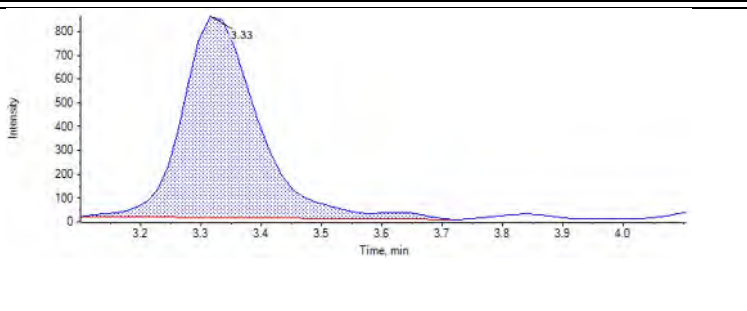
JU09
RT (Exp. RT): 3.33 (3.45) min
Calculated Conc: 80.146451 ng/L
Area: 5284.66979
Modified: (False)

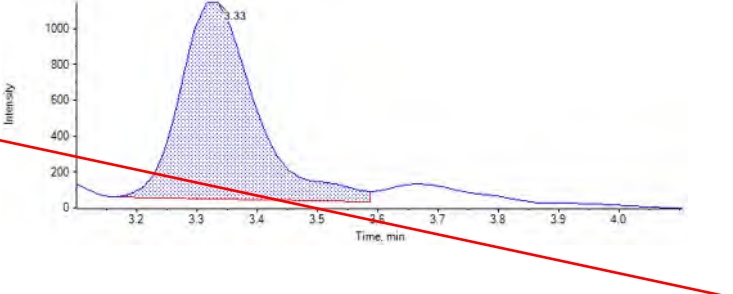
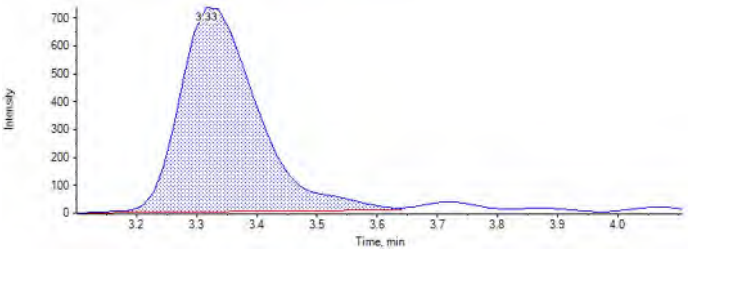
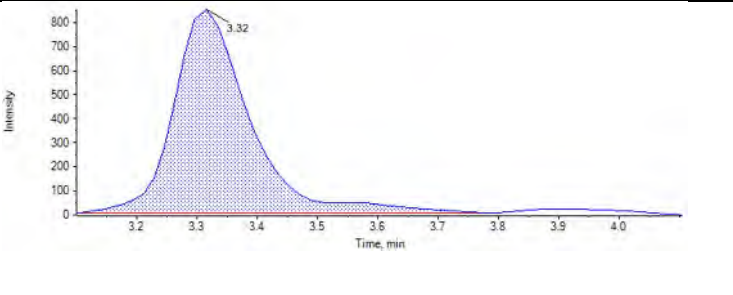
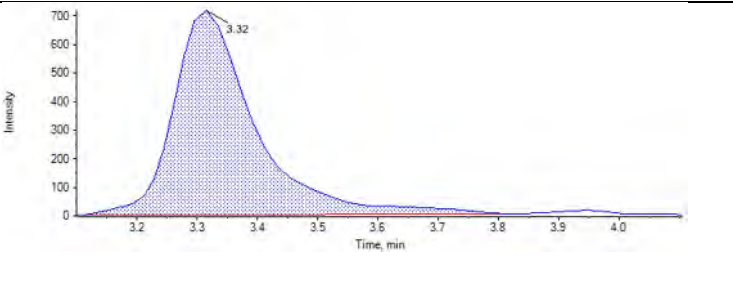
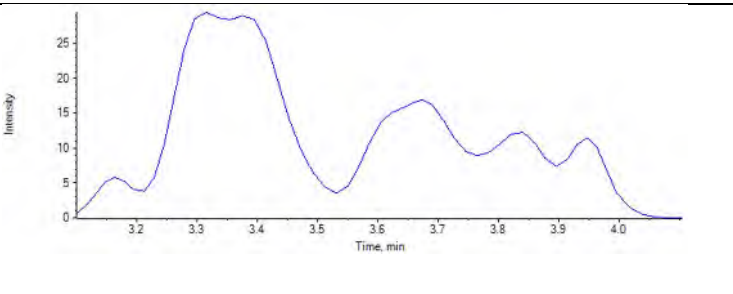


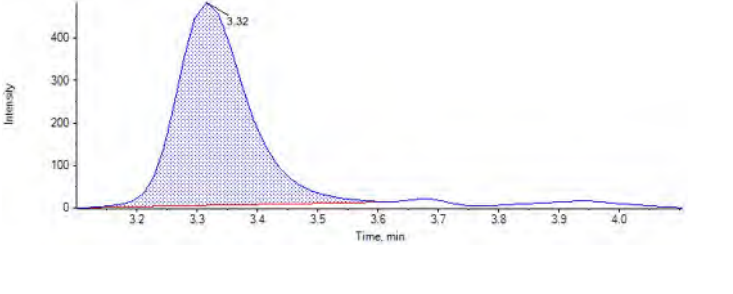
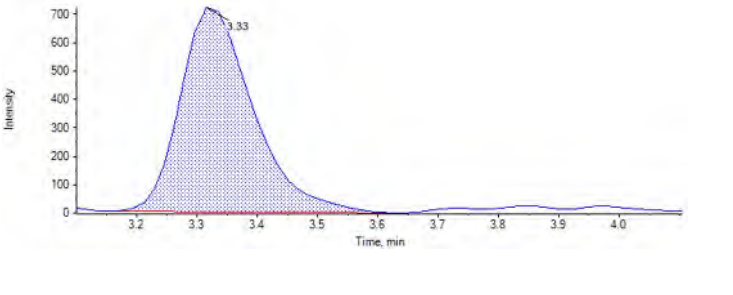
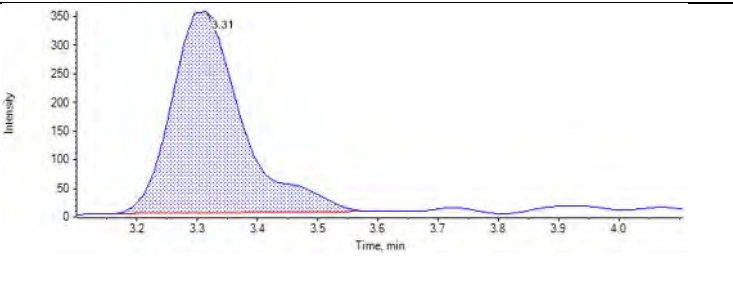
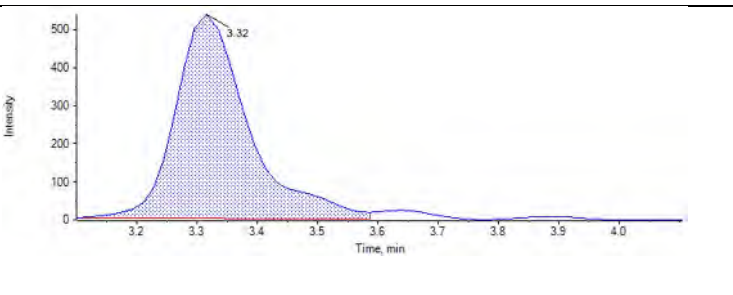
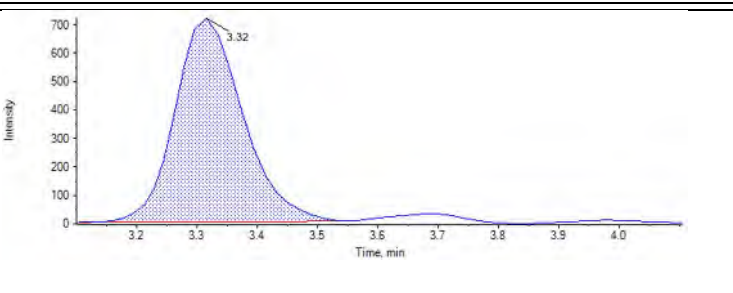
JU10
RT (Exp. RT): 3.33 (3.45) min
Calculated Conc: 78.614303 ng/L
Area: 5029.55232
Modified: (False)



JU11
RT (Exp. RT): 3.33 (3.45) min
Calculated Conc: 127.702997 ng/L
Area: 7439.53673
Modified: (False)

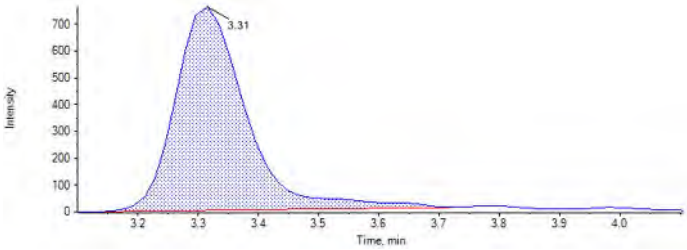


<p>JU12</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 149.794932 ng/L</p> <p>Area: 9561.83658</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 99.382360 ng/L</p> <p>Area: 6595.66569</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 110.113546 ng/L</p> <p>Area: 7441.92392</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 105.829468 ng/L</p> <p>Area: 6741.25575</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.45) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 113.172992 ng/L</p> <p>Area: 3932.45210</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.32 min. The y-axis is labeled 'Intensity' and ranges from 0 to 400. The x-axis is labeled 'Time, min' and ranges from 3.2 to 4.0. The peak is shaded in blue and labeled with its retention time, 3.32.</p>
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.33 (3.45) min</p> <p>Calculated Conc: 97.748033 ng/L</p> <p>Area: 6025.65574</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.33 min. The y-axis is labeled 'Intensity' and ranges from 0 to 700. The x-axis is labeled 'Time, min' and ranges from 3.2 to 4.0. The peak is shaded in blue and labeled with its retention time, 3.33.</p>
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.31 (3.45) min</p> <p>Calculated Conc: 66.929915 ng/L</p> <p>Area: 2854.00112</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.31 min. The y-axis is labeled 'Intensity' and ranges from 0 to 350. The x-axis is labeled 'Time, min' and ranges from 3.2 to 4.0. The peak is shaded in blue and labeled with its retention time, 3.31.</p>
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 80.843136 ng/L</p> <p>Area: 4518.75886</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.32 min. The y-axis is labeled 'Intensity' and ranges from 0 to 500. The x-axis is labeled 'Time, min' and ranges from 3.2 to 4.0. The peak is shaded in blue and labeled with its retention time, 3.32.</p>
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 3.32 (3.45) min</p> <p>Calculated Conc: 98.987830 ng/L</p> <p>Area: 5606.50006</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.32 min. The y-axis is labeled 'Intensity' and ranges from 0 to 700. The x-axis is labeled 'Time, min' and ranges from 3.2 to 4.0. The peak is shaded in blue and labeled with its retention time, 3.32.</p>

JU09 CCV

RT (Exp. RT): 3.31 (3.45) min
Calculated Conc: 97.531614 ng/L
Area: 6215.47355
Modified: (False)



Analyte: d5-EtFOSAA (589.0 / 419.0)

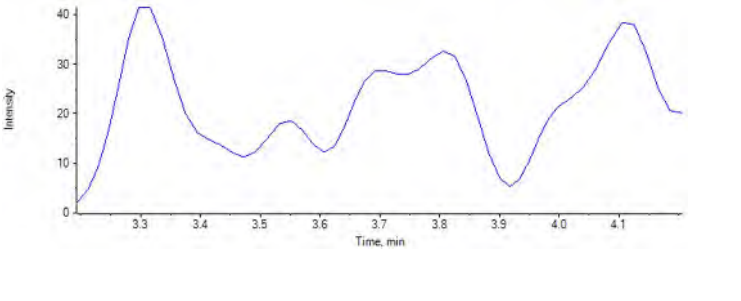
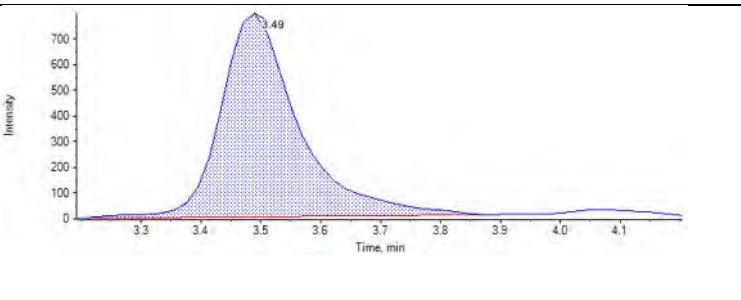
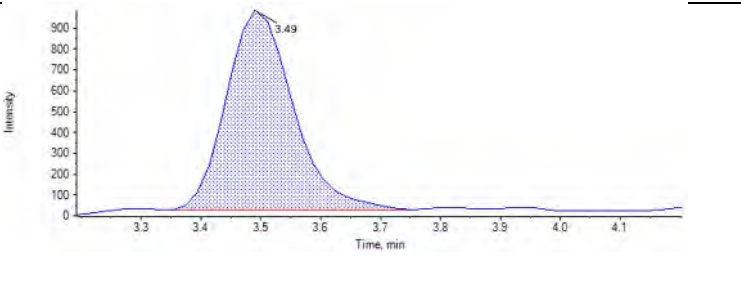
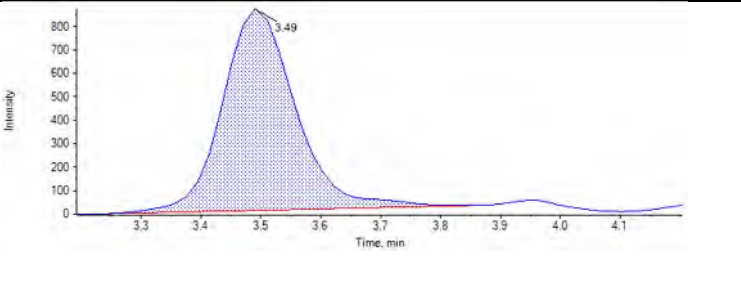
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Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

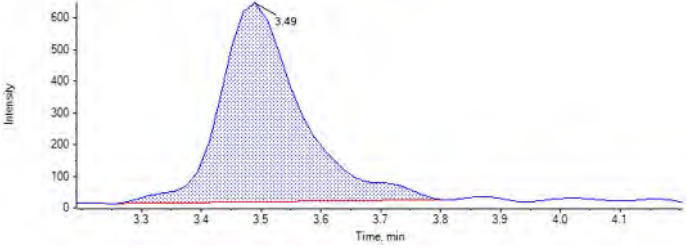
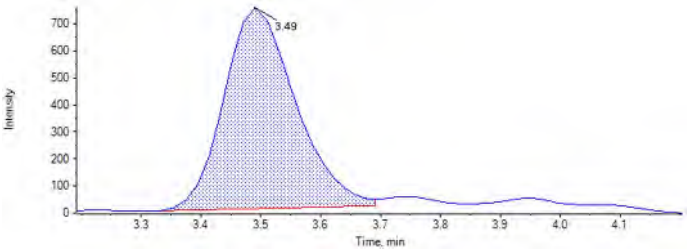
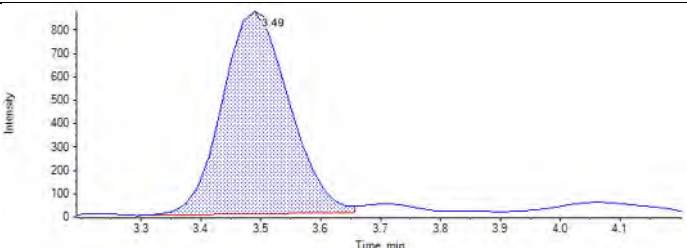
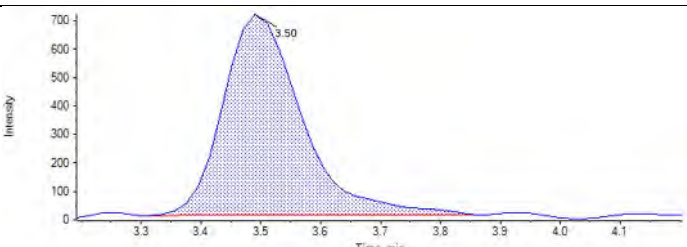
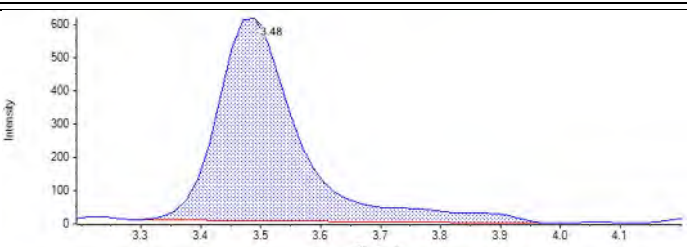
Samples:

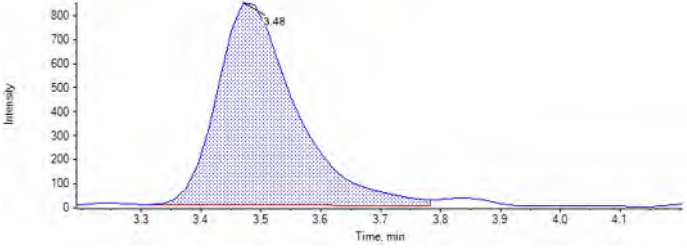
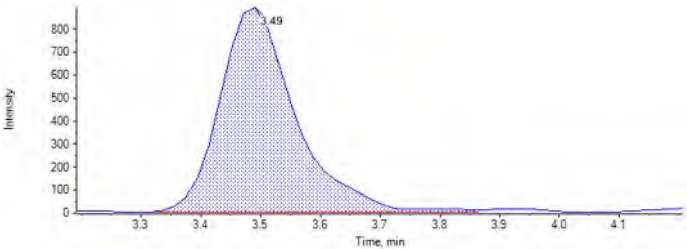
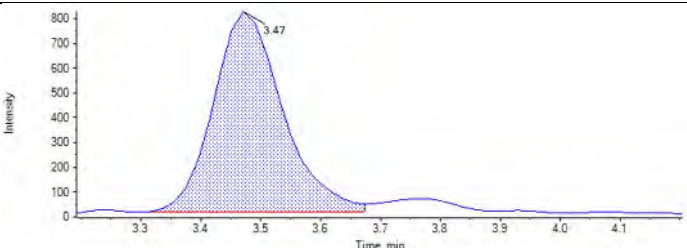
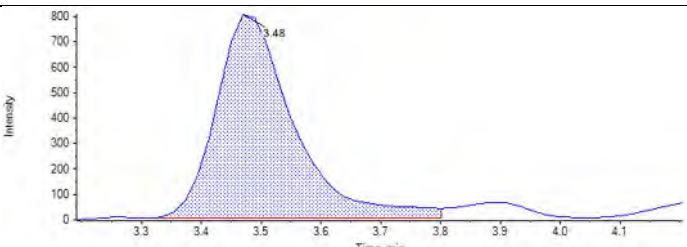
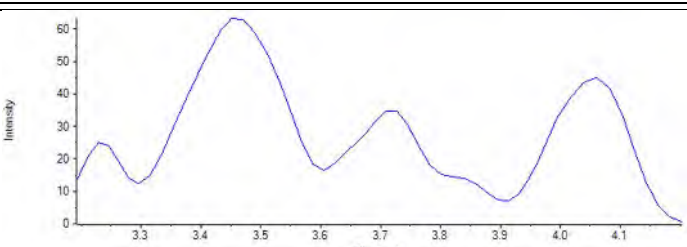
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MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	7166	3.49	11010	100.00000	95.191692	95
JU05	Standard	3/29/2018 7:57:30 PM	7427	3.49	10320	100.00000	105.253655	105
JU06	Standard	3/29/2018 8:08:16 PM	7311	3.49	10990	100.00000	97.259555	97
JU07	Standard	3/29/2018 8:19:03 PM	5896	3.49	8191	100.00000	105.281328	105
JU08	Standard	3/29/2018 8:29:49 PM	6189	3.49	8594	100.00000	105.322247	105
JU09	Standard	3/29/2018 8:40:36 PM	6736	3.49	10450	100.00000	94.304151	94
JU10	Standard	3/29/2018 8:51:22 PM	6458	3.50	10140	100.00000	93.185843	93
JU11	Standard	3/29/2018 9:02:09 PM	5815	3.48	9230	100.00000	92.141485	92
JU12	Standard	3/29/2018 9:12:55 PM	7749	3.48	10110	100.00000	112.060044	112
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	7880	3.49	10510	100.00000	109.603981	110
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	6492	3.47	10710	100.00000	88.678365	89
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	7204	3.48	10090	100.00000	104.403698	104
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	3826	3.49	5505	100.00000	101.646037	102
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	5268	3.48	9766	100.00000	78.892872	79
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	4402	3.48	6756	100.00000	95.300480	95
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	3913	3.47	8856	100.00000	64.621841	65
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	5567	3.47	8973	100.00000	90.732072	91

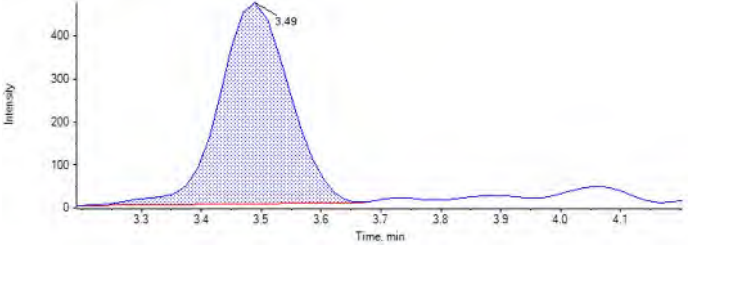
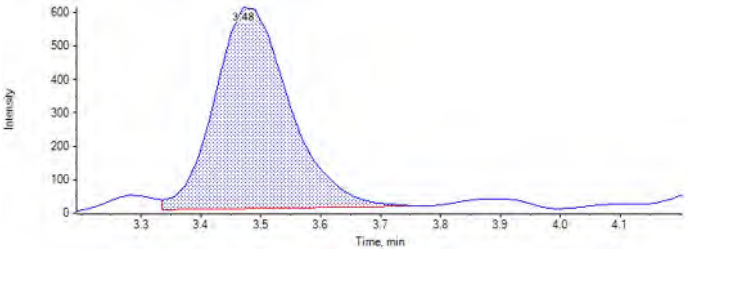
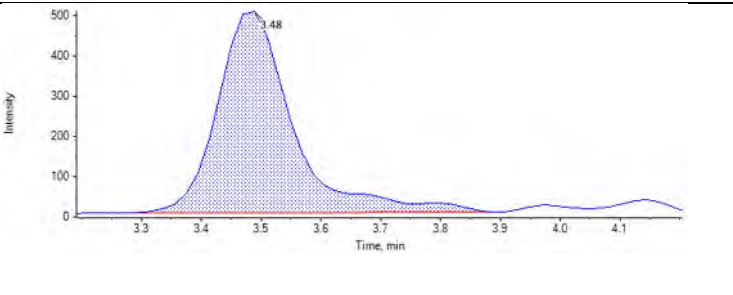
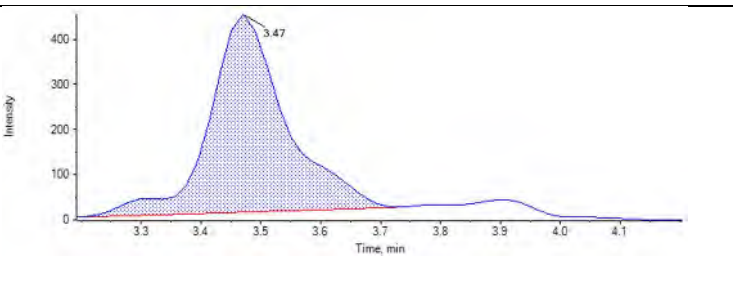
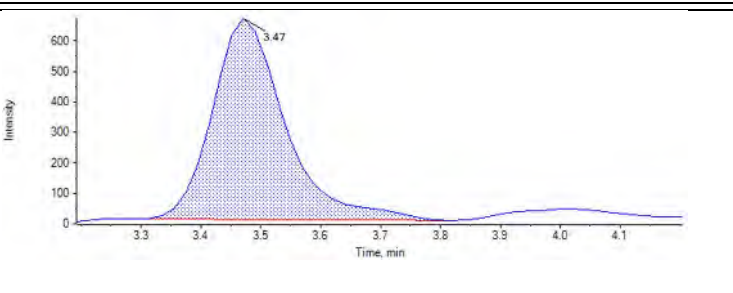
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	5766	3.48	10100	100.00000	83.525494	84

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.70) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 95.191692 ng/L</p> <p>Area: 7166.25864</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 105.253655 ng/L</p> <p>Area: 7426.80014</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 97.259555 ng/L</p> <p>Area: 7310.96085</p> <p>Modified: (False)</p>	

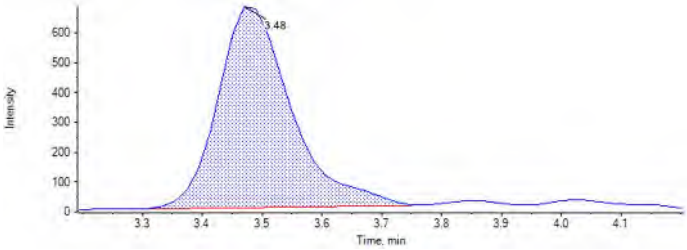
<p>JU07</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 105.281328 ng/L</p> <p>Area: 5896.21066</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 105.322247 ng/L</p> <p>Area: 6188.68772</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 94.304151 ng/L</p> <p>Area: 6736.13188</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 3.50 (3.70) min</p> <p>Calculated Conc: 93.185843 ng/L</p> <p>Area: 6458.38465</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 3.48 (3.70) min</p> <p>Calculated Conc: 92.141485 ng/L</p> <p>Area: 5814.95319</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 3.48 (3.70) min</p> <p>Calculated Conc: 112.060044 ng/L</p> <p>Area: 7748.92033</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 109.603981 ng/L</p> <p>Area: 7879.92111</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.47 (3.70) min</p> <p>Calculated Conc: 88.678365 ng/L</p> <p>Area: 6492.44623</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.48 (3.70) min</p> <p>Calculated Conc: 104.403698 ng/L</p> <p>Area: 7204.37452</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.70) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.49 (3.70) min</p> <p>Calculated Conc: 101.646037 ng/L</p> <p>Area: 3826.10869</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.3 to 4.1 minutes. The y-axis ranges from 0 to 400. A single prominent peak is observed at 3.49 minutes, reaching an intensity of approximately 400. The baseline is relatively flat with minor noise.</p>
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.70) min</p> <p>Calculated Conc: 78.892872 ng/L</p> <p>Area: 5268.41845</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.3 to 4.1 minutes. The y-axis ranges from 0 to 600. A single prominent peak is observed at 3.48 minutes, reaching an intensity of approximately 550. The baseline is relatively flat with minor noise.</p>
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.70) min</p> <p>Calculated Conc: 95.300480 ng/L</p> <p>Area: 4402.25463</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.3 to 4.1 minutes. The y-axis ranges from 0 to 500. A single prominent peak is observed at 3.48 minutes, reaching an intensity of approximately 500. The baseline is relatively flat with minor noise.</p>
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.47 (3.70) min</p> <p>Calculated Conc: 64.621841 ng/L</p> <p>Area: 3912.92524</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.3 to 4.1 minutes. The y-axis ranges from 0 to 400. A single prominent peak is observed at 3.47 minutes, reaching an intensity of approximately 400. The baseline is relatively flat with minor noise.</p>
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 3.47 (3.70) min</p> <p>Calculated Conc: 90.732072 ng/L</p> <p>Area: 5566.94673</p> <p>Modified: (False)</p>	 <p>Chromatogram showing Intensity vs Time (min). The x-axis ranges from 3.3 to 4.1 minutes. The y-axis ranges from 0 to 600. A single prominent peak is observed at 3.47 minutes, reaching an intensity of approximately 550. The baseline is relatively flat with minor noise.</p>

JU09 CCV

RT (Exp. RT): 3.48 (3.70) min
Calculated Conc: 83.525494 ng/L
Area: 5766.25808
Modified: (False)



Analyte: 13C5-PFHxA (318.0 / 273.0)

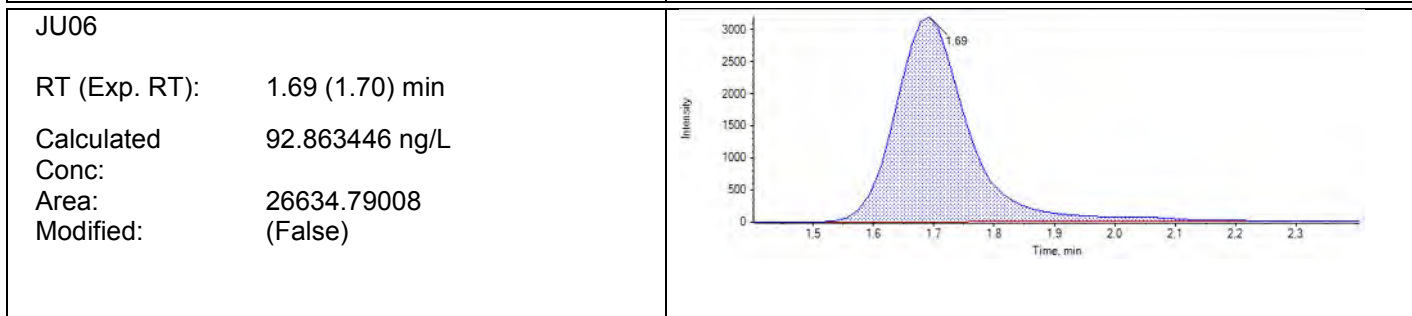
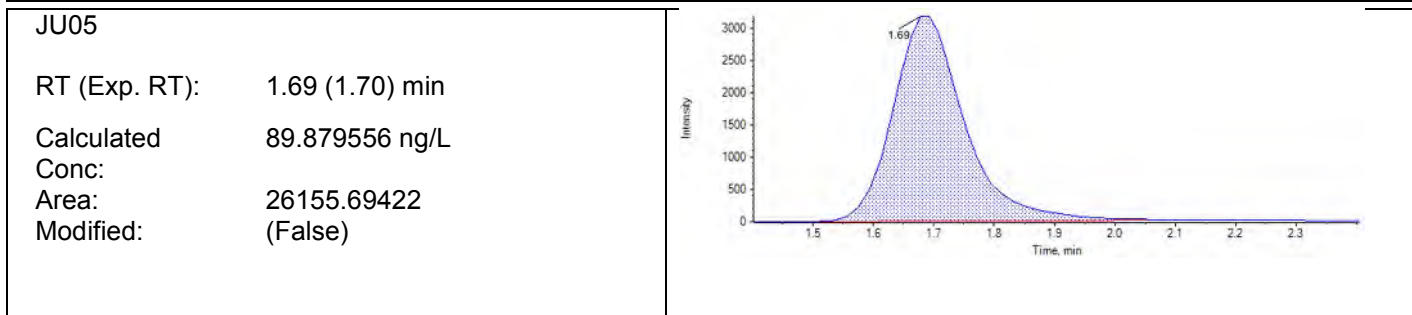
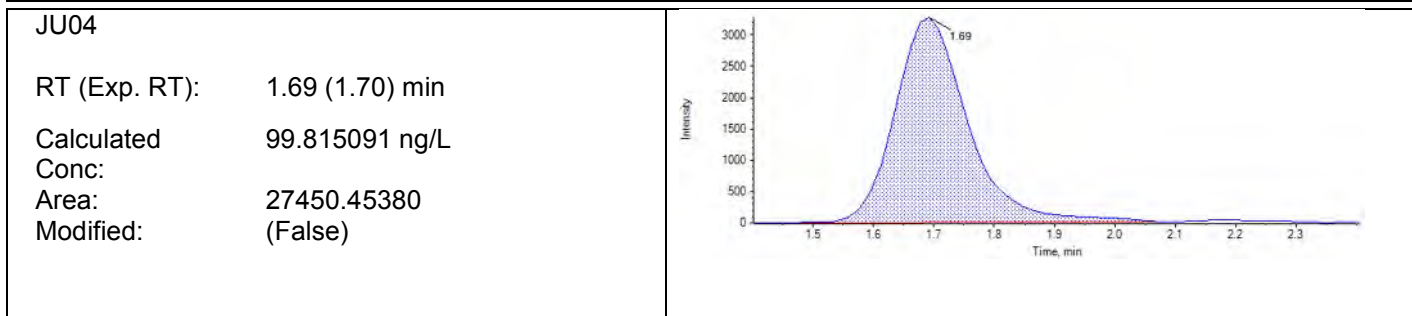
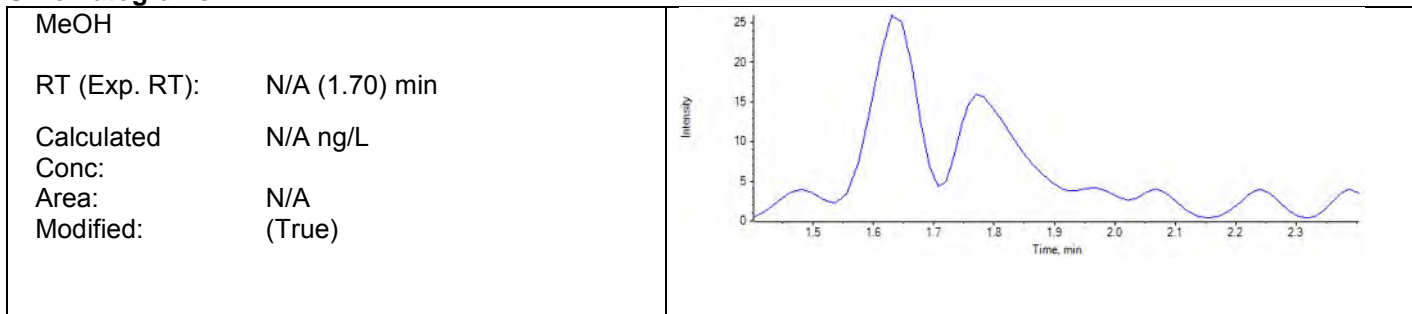
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Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

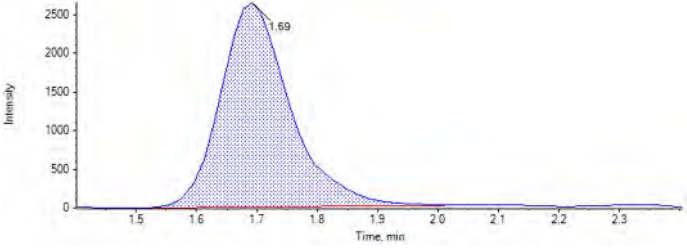
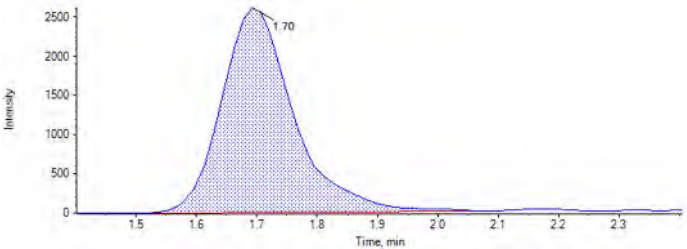
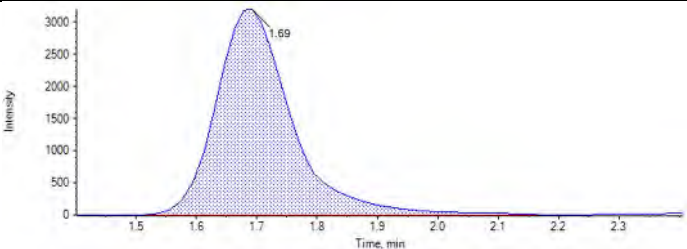
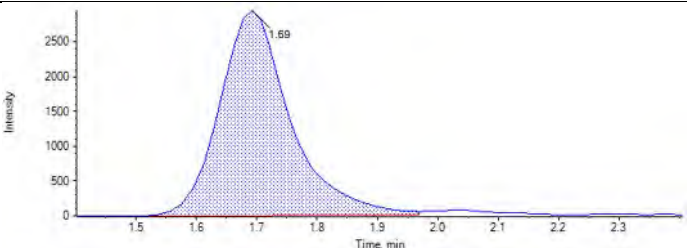
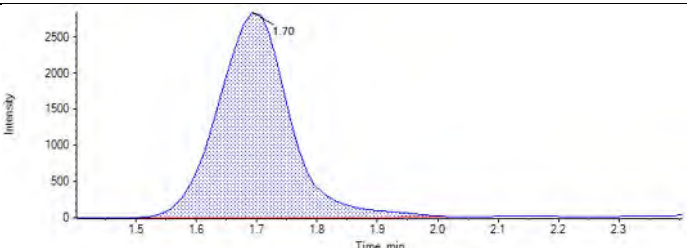
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	27450	1.69	31730	100.00000	99.815091	100
JU05	Standard	3/29/2018 7:57:30 PM	26156	1.69	33570	100.00000	89.879556	90
JU06	Standard	3/29/2018 8:08:16 PM	26635	1.69	33090	100.00000	92.863446	93
JU07	Standard	3/29/2018 8:19:03 PM	21135	1.69	27130	100.00000	89.875166	90
JU08	Standard	3/29/2018 8:29:49 PM	21628	1.70	27340	100.00000	91.276329	91
JU09	Standard	3/29/2018 8:40:36 PM	27687	1.69	30040	100.00000	106.338999	106
JU10	Standard	3/29/2018 8:51:22 PM	23964	1.69	24150	100.00000	114.481503	114
JU11	Standard	3/29/2018 9:02:09 PM	23457	1.70	24540	100.00000	110.278856	110
JU12	Standard	3/29/2018 9:12:55 PM	33499	1.69	36740	100.00000	105.191055	105
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	28013	1.69	34260	100.00000	94.317943	94
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	26221	1.69	32360	100.00000	93.485953	93
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	23768	1.69	30010	100.00000	91.361584	91
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	16392	1.69	18070	100.00000	104.651659	105
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	24509	1.69	28230	100.00000	100.156519	100
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	17234	1.69	19720	100.00000	100.808914	101
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	19715	1.70	23890	100.00000	95.201891	95
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	22230	1.68	28630	100.00000	89.577212	90

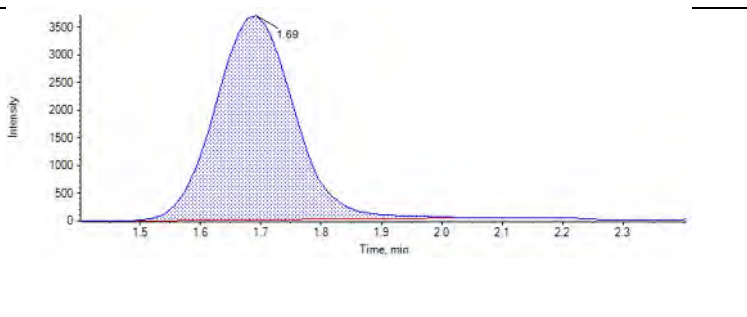
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	24337	1.68	28060	100.00000	100.066520	100

Chromatograms:

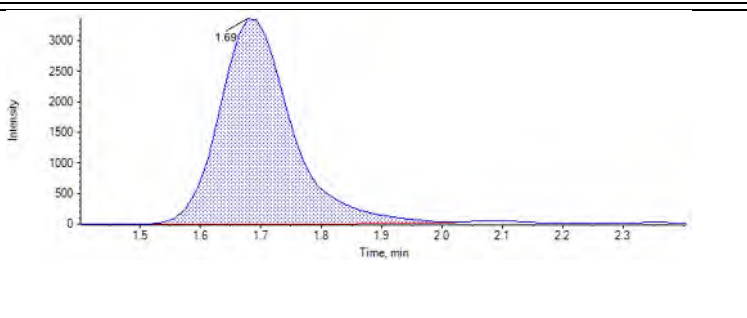


<p>JU07</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 89.875166 ng/L</p> <p>Area: 21135.05134</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 91.276329 ng/L</p> <p>Area: 21628.38058</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 106.338999 ng/L</p> <p>Area: 27686.86868</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.69 (1.70) min</p> <p>Calculated Conc: 114.481503 ng/L</p> <p>Area: 23964.46468</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.70 (1.70) min</p> <p>Calculated Conc: 110.278856 ng/L</p> <p>Area: 23457.18940</p> <p>Modified: (False)</p>	

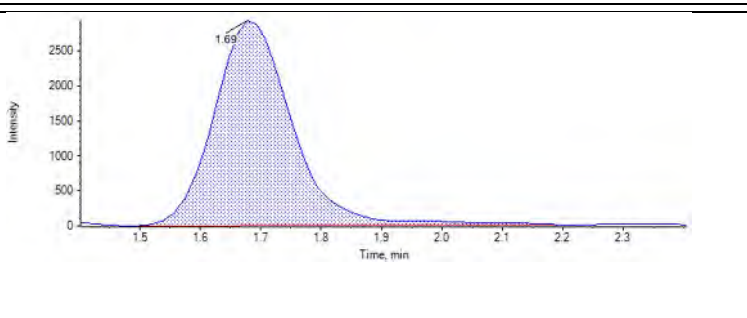
JU12
 RT (Exp. RT): 1.69 (1.70) min
 Calculated Conc: 105.191055 ng/L
 Area: 33499.06035
 Modified: (False)



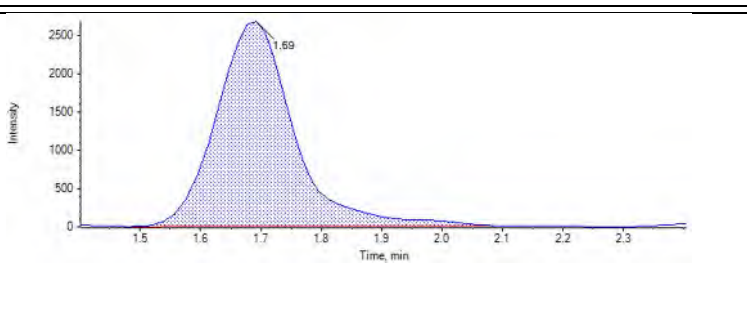
JP83 IB
 RT (Exp. RT): 1.69 (1.70) min
 Calculated Conc: 94.317943 ng/L
 Area: 28012.88196
 Modified: (False)



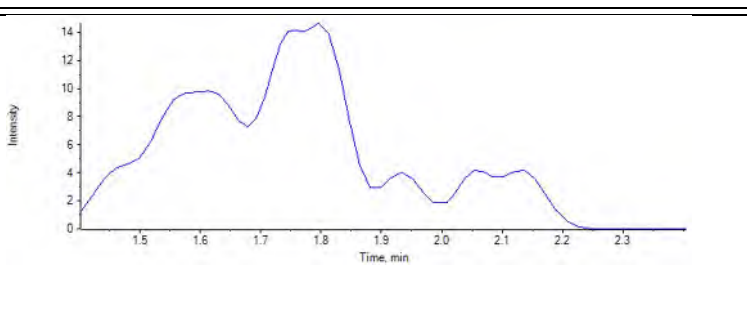
JU13 ICC
 RT (Exp. RT): 1.69 (1.70) min
 Calculated Conc: 93.485953 ng/L
 Area: 26221.21411
 Modified: (False)



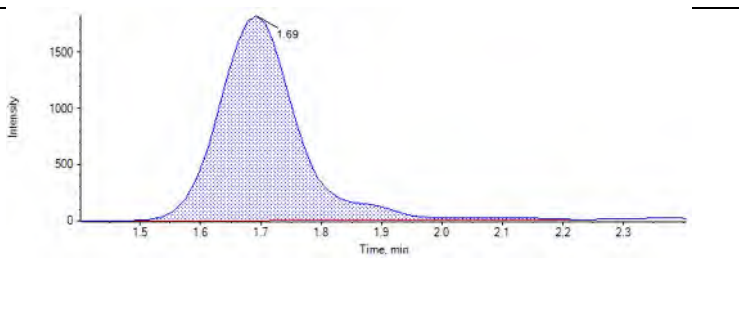
JU38 Branch
 RT (Exp. RT): 1.69 (1.70) min
 Calculated Conc: 91.361584 ng/L
 Area: 23768.11927
 Modified: (False)



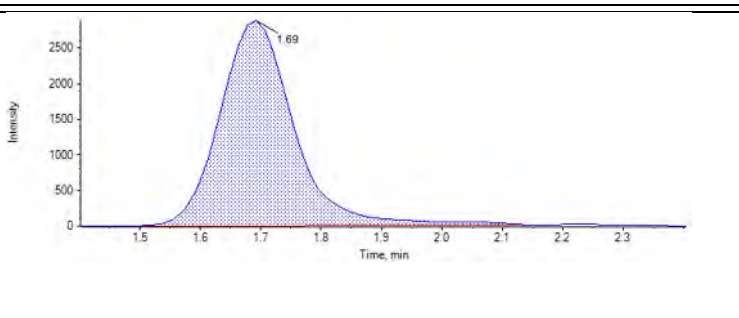
MeOH
 RT (Exp. RT): N/A (1.70) min
 Calculated Conc: N/A ng/L
 Area: N/A
 Modified: (True)



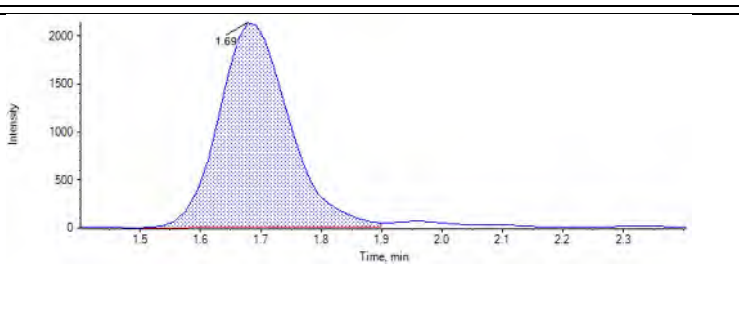
CQ350PB-FS(3)
RT (Exp. RT): 1.69 (1.70) min
Calculated Conc: 104.651659 ng/L
Area: 16391.68644
Modified: (False)



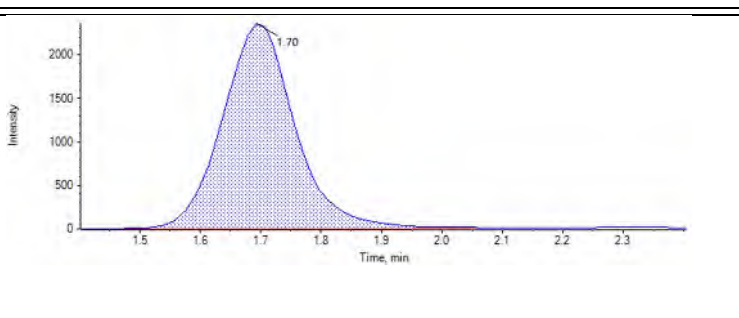
CQ351LCS-FS(3)
RT (Exp. RT): 1.69 (1.70) min
Calculated Conc: 100.156519 ng/L
Area: 24508.85880
Modified: (False)



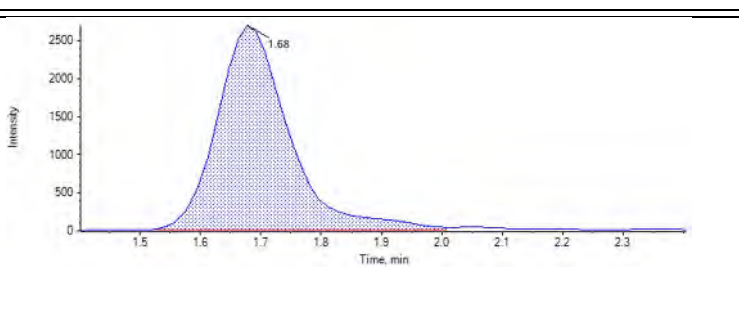
J5386-FS(3)
RT (Exp. RT): 1.69 (1.70) min
Calculated Conc: 100.808914 ng/L
Area: 17234.40099
Modified: (False)



J5391-FS(3)
RT (Exp. RT): 1.70 (1.70) min
Calculated Conc: 95.201891 ng/L
Area: 19715.14575
Modified: (False)

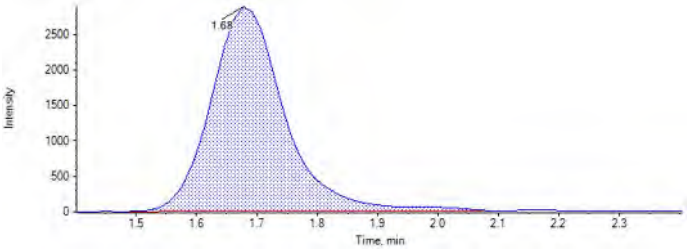


J5393-FS(3)
RT (Exp. RT): 1.68 (1.70) min
Calculated Conc: 89.577212 ng/L
Area: 22230.27313
Modified: (False)



JU09 CCV

RT (Exp. RT): 1.68 (1.70) min
Calculated Conc: 100.066520 ng/L
Area: 24337.20673
Modified: (False)



Analyte: 13C4-PFHpA (367.0 / 322.0)

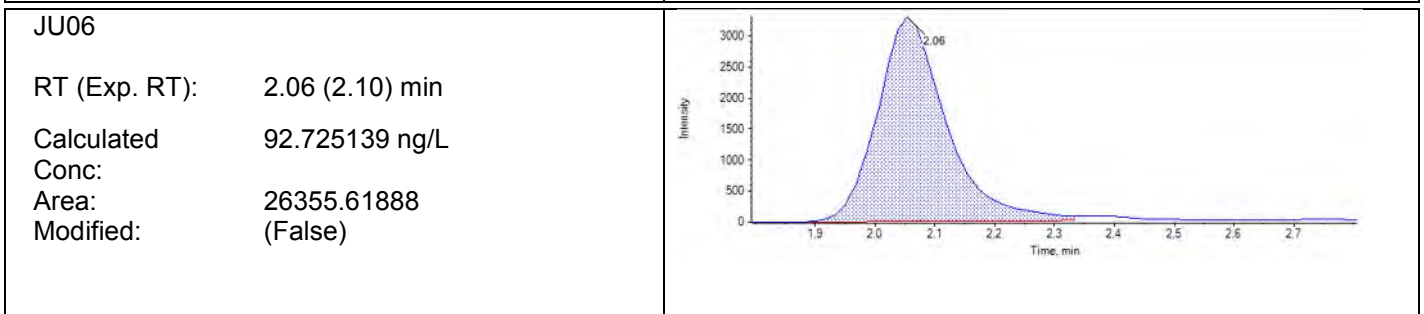
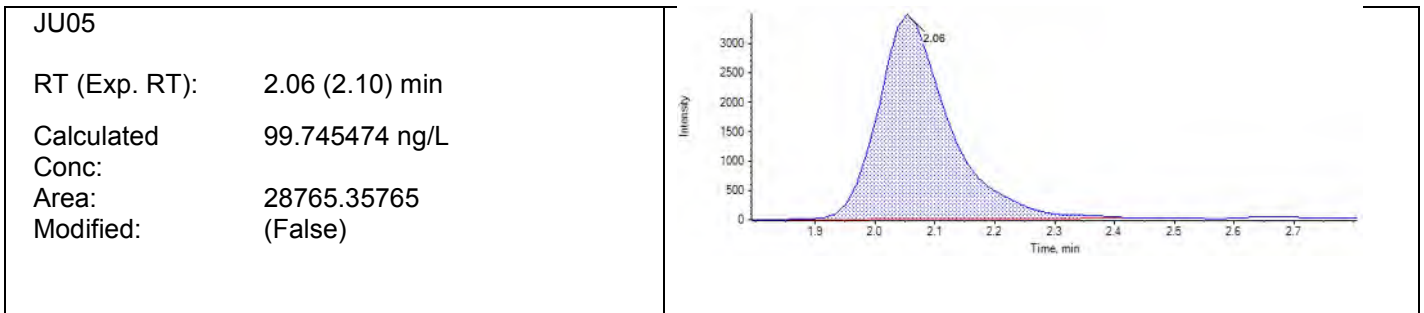
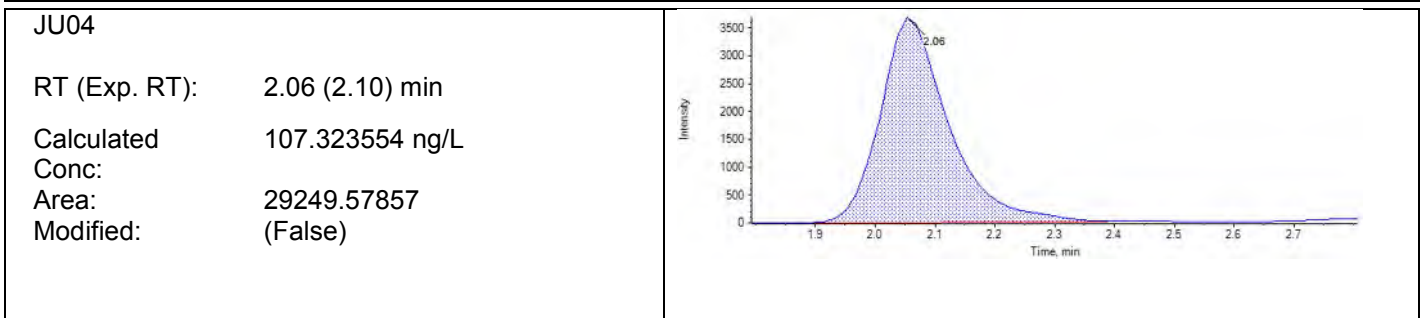
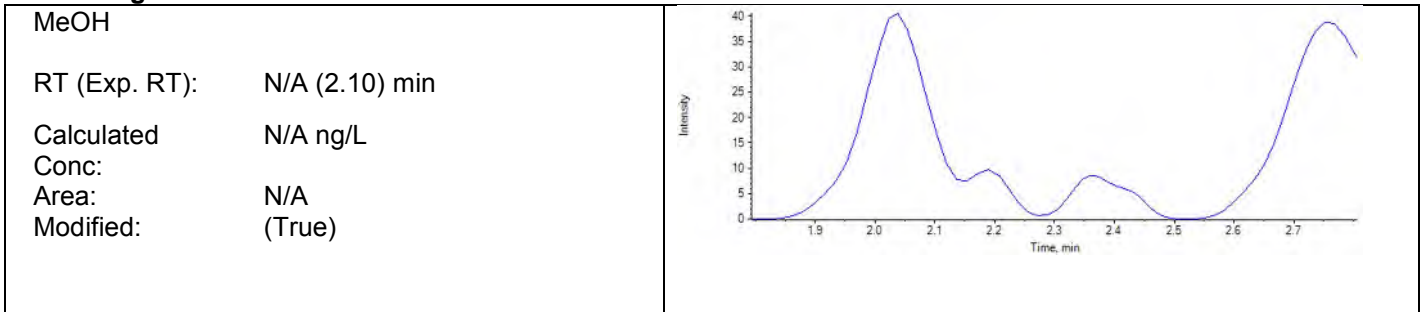
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

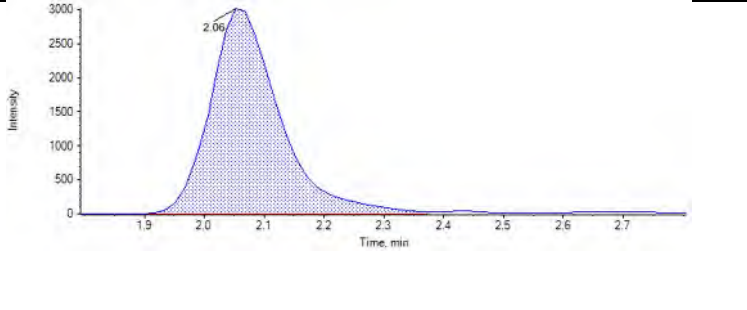
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	29250	2.06	31730	100.00000	107.323554	107
JU05	Standard	3/29/2018 7:57:30 PM	28765	2.06	33570	100.00000	99.745474	100
JU06	Standard	3/29/2018 8:08:16 PM	26356	2.06	33090	100.00000	92.725139	93
JU07	Standard	3/29/2018 8:19:03 PM	24201	2.06	27130	100.00000	103.847773	104
JU08	Standard	3/29/2018 8:29:49 PM	23675	2.06	27340	100.00000	100.819536	101
JU09	Standard	3/29/2018 8:40:36 PM	25870	2.05	30040	100.00000	100.262721	100
JU10	Standard	3/29/2018 8:51:22 PM	21910	2.05	24150	100.00000	105.616796	106
JU11	Standard	3/29/2018 9:02:09 PM	20918	2.06	24540	100.00000	99.235514	99
JU12	Standard	3/29/2018 9:12:55 PM	28537	2.05	36740	100.00000	90.423493	90
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	29311	2.06	34260	100.00000	99.584634	100
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	28796	2.05	32360	100.00000	103.598980	104
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	25414	2.05	30010	100.00000	98.576961	99
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	15629	2.05	18070	100.00000	100.690273	101
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	22494	2.05	28230	100.00000	92.758964	93
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	17637	2.05	19720	100.00000	104.100533	104
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	18338	2.05	23890	100.00000	89.357874	89
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	23169	2.05	28630	100.00000	94.210083	94

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	24357	2.05	28060	100.00000	101.057927	101

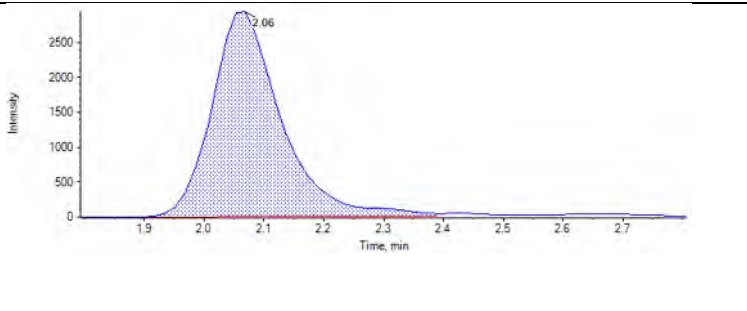
Chromatograms:



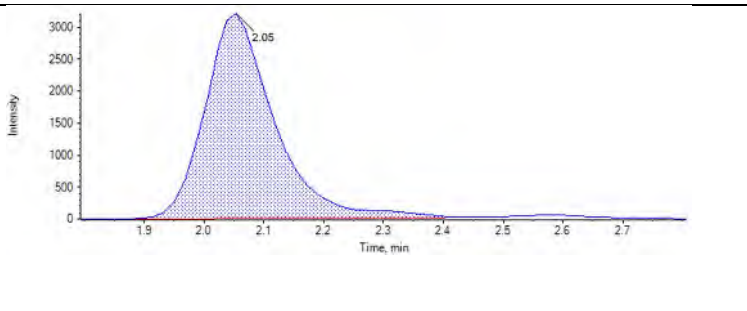
JU07
RT (Exp. RT): 2.06 (2.10) min
Calculated Conc: 103.847773 ng/L
Area: 24200.92891
Modified: (False)



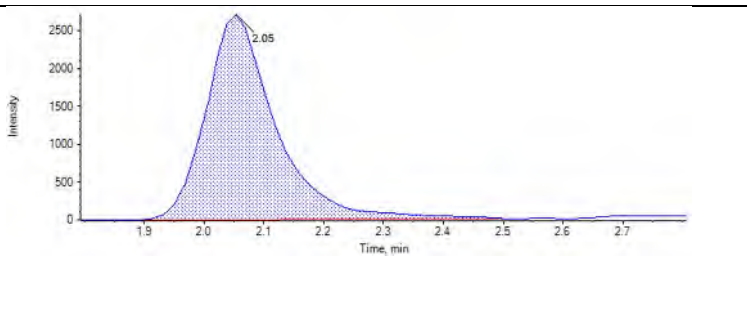
JU08
RT (Exp. RT): 2.06 (2.10) min
Calculated Conc: 100.819536 ng/L
Area: 23674.55251
Modified: (False)



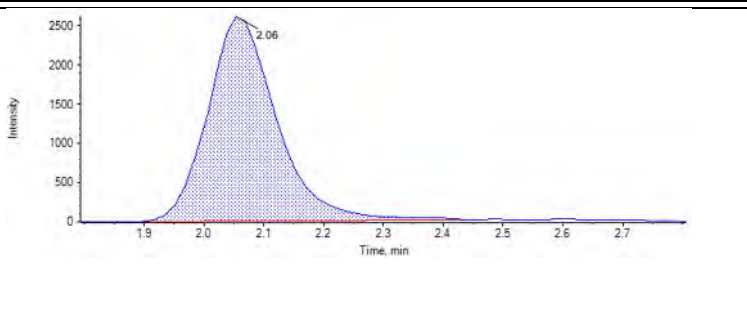
JU09
RT (Exp. RT): 2.05 (2.10) min
Calculated Conc: 100.262721 ng/L
Area: 25869.73637
Modified: (False)

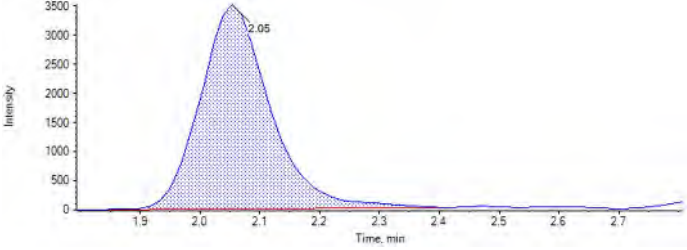
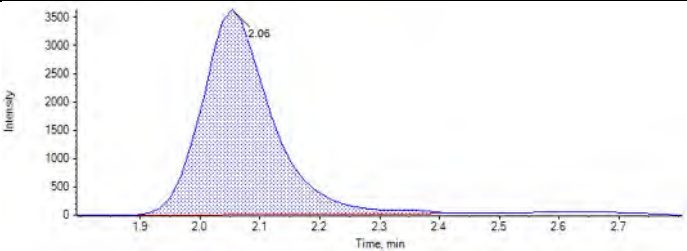
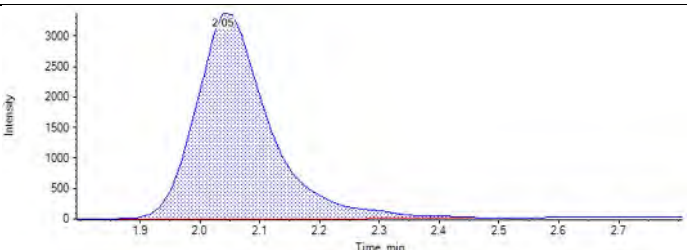
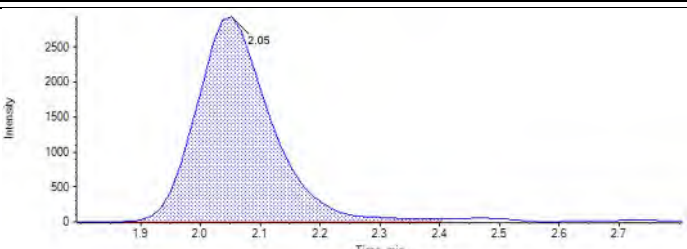
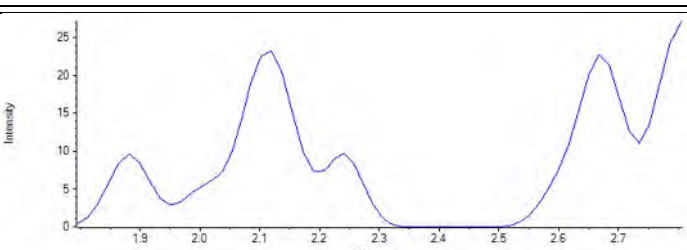


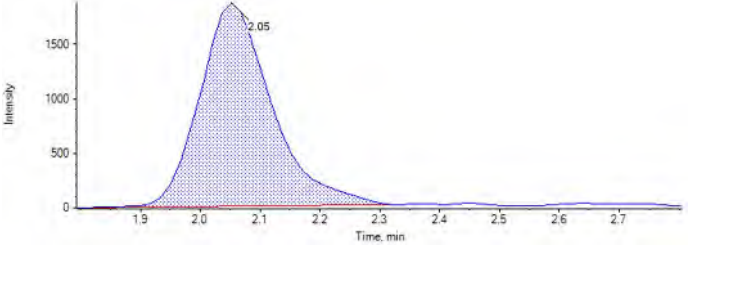
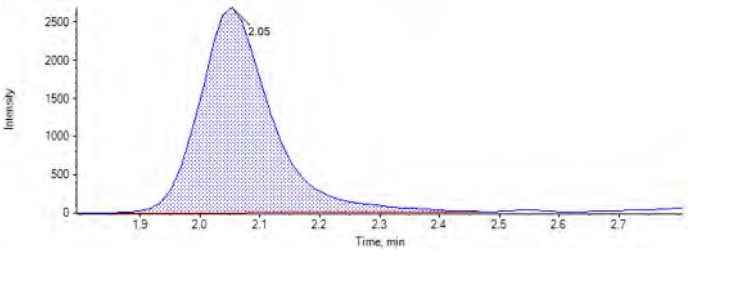
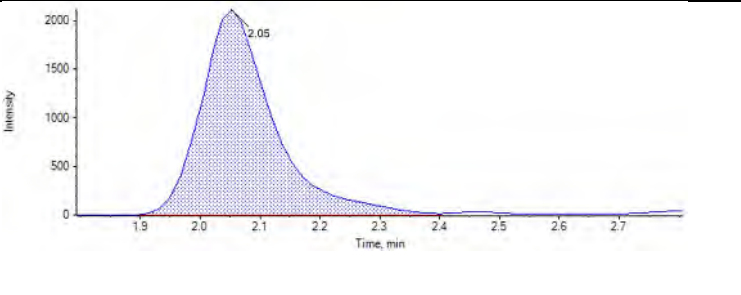
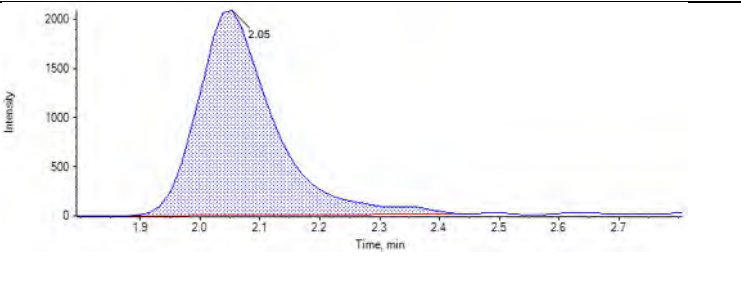
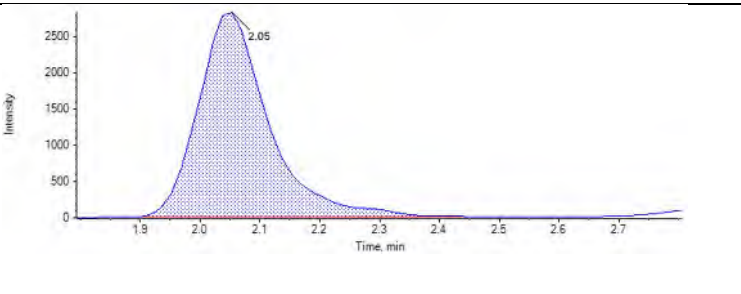
JU10
RT (Exp. RT): 2.05 (2.10) min
Calculated Conc: 105.616796 ng/L
Area: 21909.71052
Modified: (False)



JU11
RT (Exp. RT): 2.06 (2.10) min
Calculated Conc: 99.235514 ng/L
Area: 20918.09287
Modified: (False)



<p>JU12</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 90.423493 ng/L</p> <p>Area: 28536.87029</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.06 (2.10) min</p> <p>Calculated Conc: 99.584634 ng/L</p> <p>Area: 29310.75763</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 103.598980 ng/L</p> <p>Area: 28796.06591</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 98.576961 ng/L</p> <p>Area: 25414.28318</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 100.690273 ng/L</p> <p>Area: 15629.18329</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 92.758964 ng/L</p> <p>Area: 22494.22326</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 104.100533 ng/L</p> <p>Area: 17636.86771</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 89.357874 ng/L</p> <p>Area: 18338.27542</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 2.05 (2.10) min</p> <p>Calculated Conc: 94.210083 ng/L</p> <p>Area: 23169.45854</p> <p>Modified: (False)</p>	

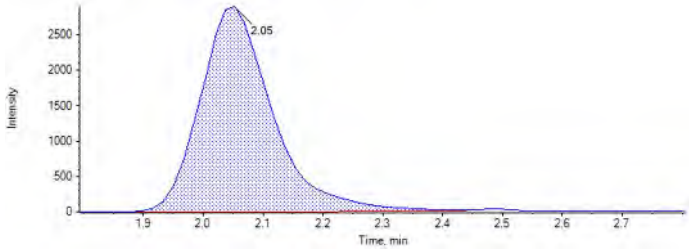
JU09 CCV

RT (Exp. RT): 2.05 (2.10) min

Calculated Conc: 101.057927 ng/L

Area: 24356.98712

Modified: (False)



Analyte: 13C8-PFOA (421.0 / 376.0)

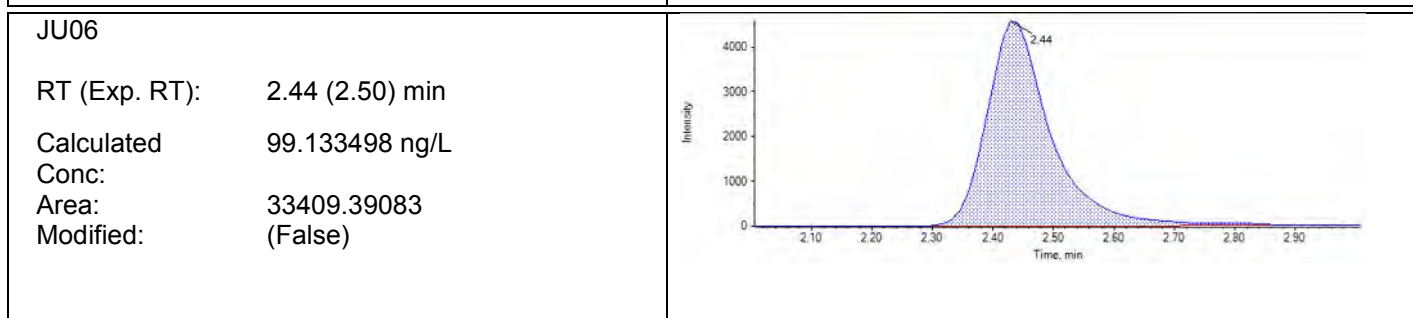
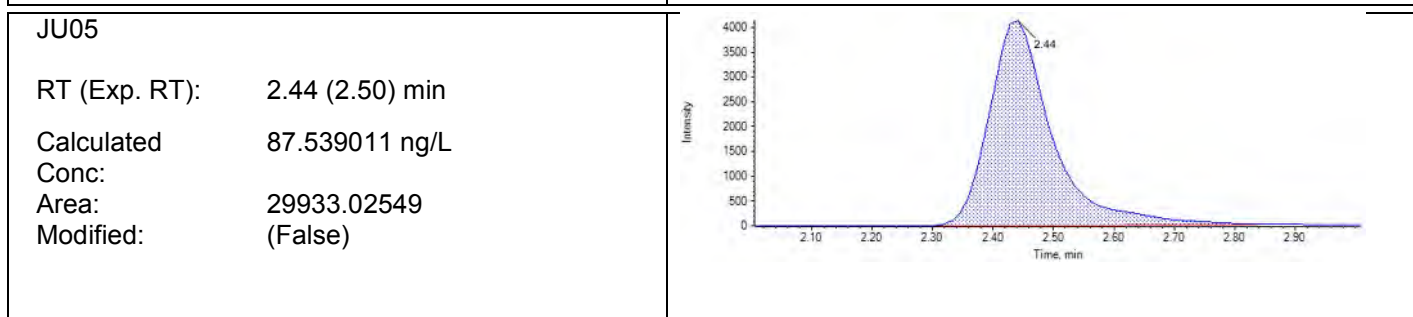
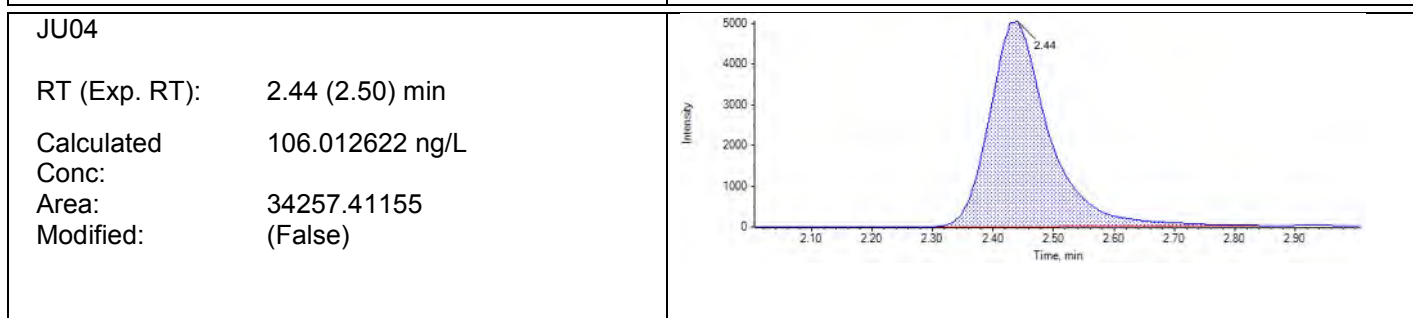
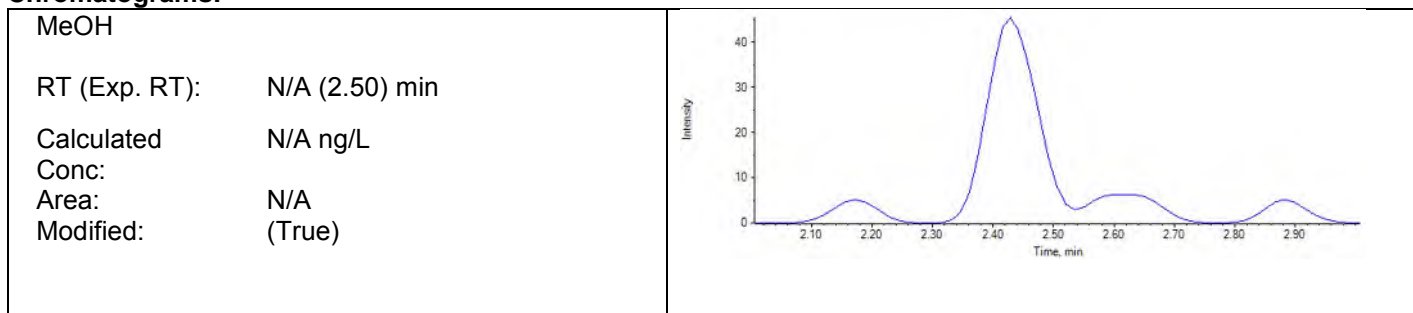
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

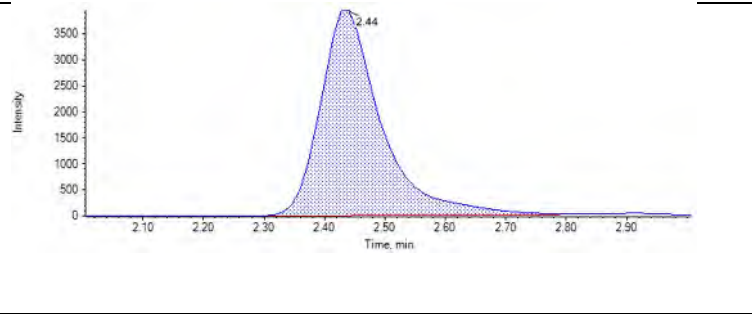
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	34257	2.44	31730	100.00000	106.012622	106
JU05	Standard	3/29/2018 7:57:30 PM	29933	2.44	33570	100.00000	87.539011	88
JU06	Standard	3/29/2018 8:08:16 PM	33409	2.44	33090	100.00000	99.133498	99
JU07	Standard	3/29/2018 8:19:03 PM	27423	2.44	27130	100.00000	99.246428	99
JU08	Standard	3/29/2018 8:29:49 PM	28990	2.44	27340	100.00000	104.122414	104
JU09	Standard	3/29/2018 8:40:36 PM	30926	2.43	30040	100.00000	101.086748	101
JU10	Standard	3/29/2018 8:51:22 PM	27531	2.43	24150	100.00000	111.928384	112
JU11	Standard	3/29/2018 9:02:09 PM	24931	2.44	24540	100.00000	99.751345	100
JU12	Standard	3/29/2018 9:12:55 PM	34119	2.43	36740	100.00000	91.179550	91
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	33664	2.43	34260	100.00000	96.463517	96
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	31223	2.43	32360	100.00000	94.736782	95
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	30930	2.43	30010	100.00000	101.182399	101
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	18335	2.43	18070	100.00000	99.623521	100
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	28611	2.43	28230	100.00000	99.504143	100
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	21788	2.43	19720	100.00000	108.461543	108
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	22758	2.43	23890	100.00000	93.526106	94
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	27672	2.43	28630	100.00000	94.897137	95

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	30269	2.42	28060	100.00000	105.917842	106

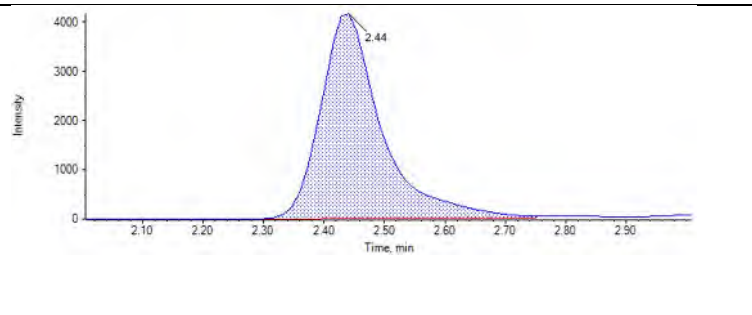
Chromatograms:



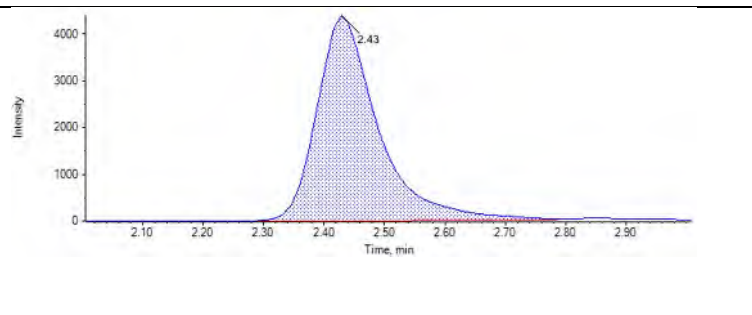
JU07
RT (Exp. RT): 2.44 (2.50) min
Calculated Conc: 99.246428 ng/L
Area: 27423.45267
Modified: (False)



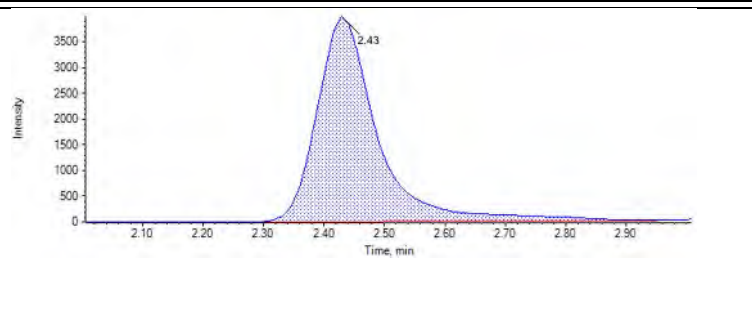
JU08
RT (Exp. RT): 2.44 (2.50) min
Calculated Conc: 104.122414 ng/L
Area: 28990.36692
Modified: (False)



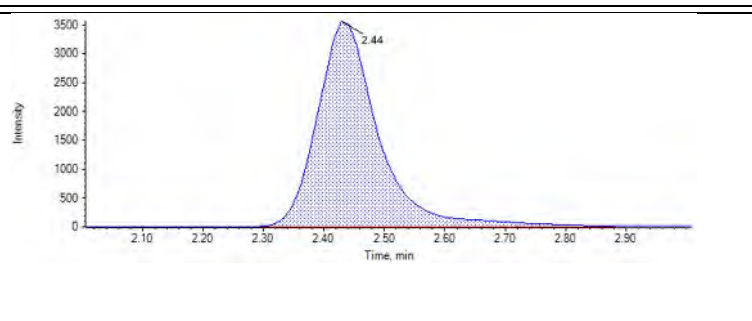
JU09
RT (Exp. RT): 2.43 (2.50) min
Calculated Conc: 101.086748 ng/L
Area: 30925.67193
Modified: (False)

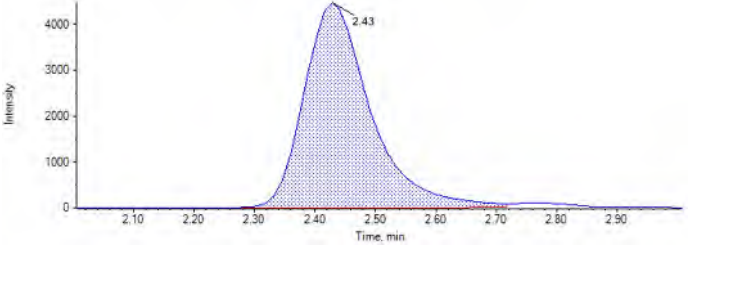
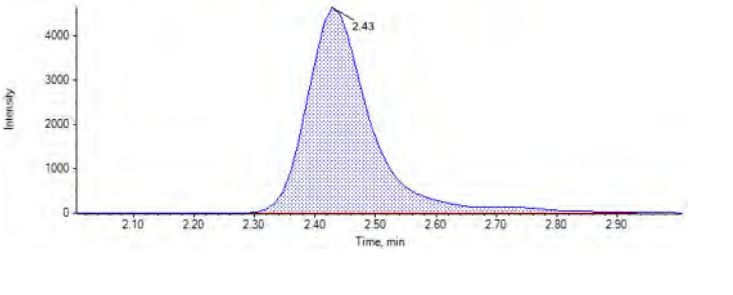
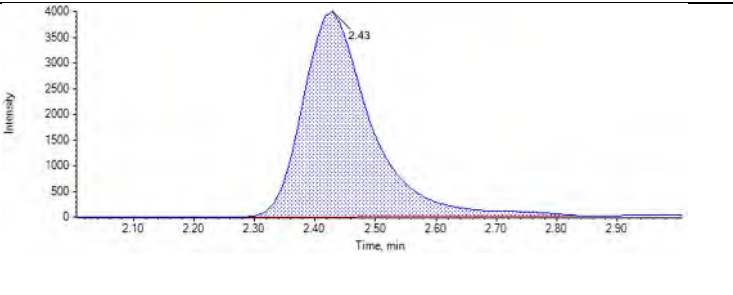
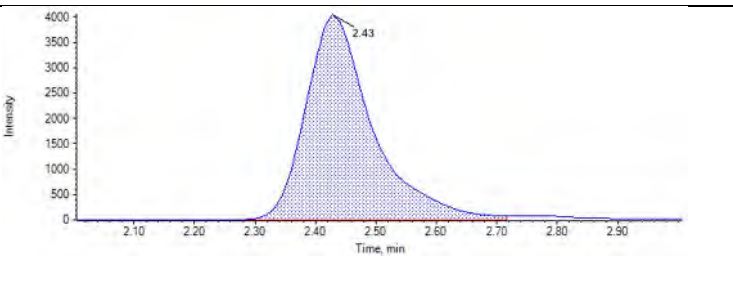
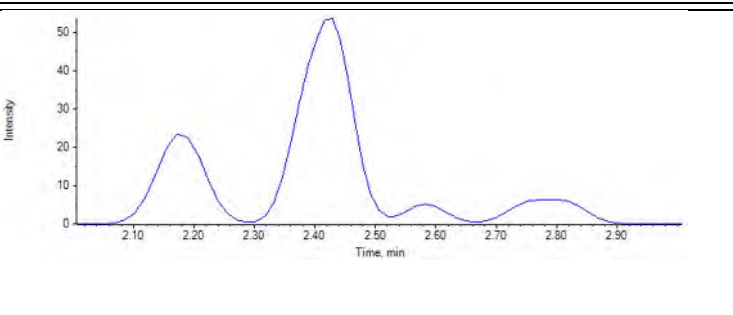


JU10
RT (Exp. RT): 2.43 (2.50) min
Calculated Conc: 111.928384 ng/L
Area: 27530.63885
Modified: (False)

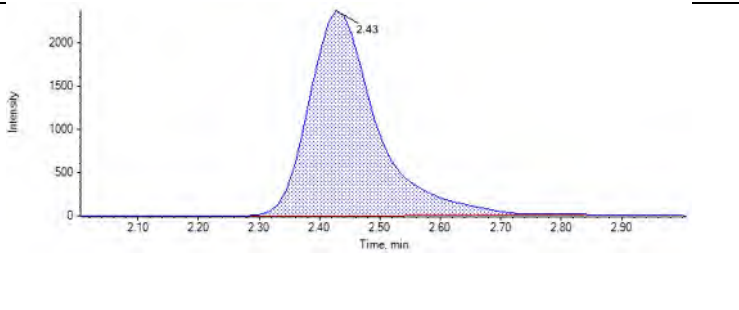


JU11
RT (Exp. RT): 2.44 (2.50) min
Calculated Conc: 99.751345 ng/L
Area: 24931.36904
Modified: (False)

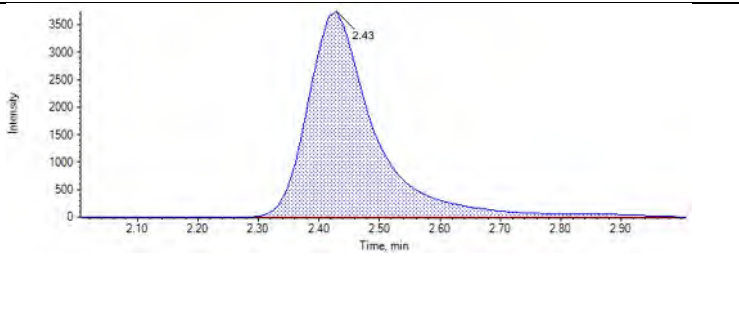


<p>JU12</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 91.179550 ng/L</p> <p>Area: 34118.89096</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 96.463517 ng/L</p> <p>Area: 33664.34813</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 94.736782 ng/L</p> <p>Area: 31222.57438</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.43 (2.50) min</p> <p>Calculated Conc: 101.182399 ng/L</p> <p>Area: 30929.99249</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

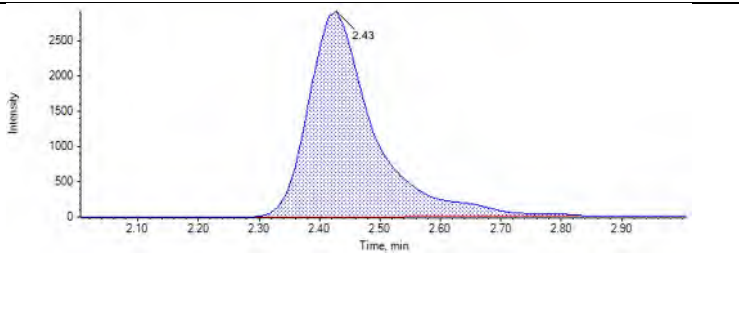
CQ350PB-FS(3)
RT (Exp. RT): 2.43 (2.50) min
Calculated Conc: 99.623521 ng/L
Area: 18335.09031
Modified: (False)



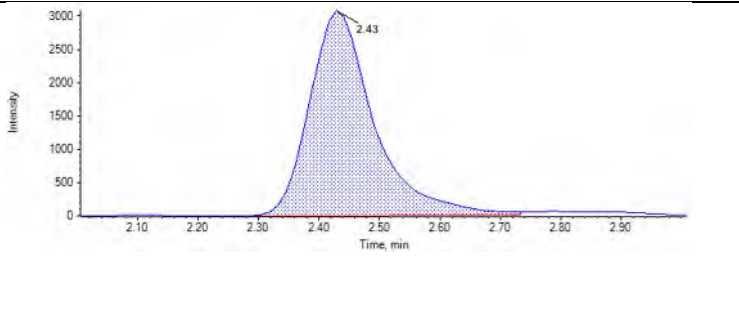
CQ351LCS-FS(3)
RT (Exp. RT): 2.43 (2.50) min
Calculated Conc: 99.504143 ng/L
Area: 28610.71278
Modified: (False)



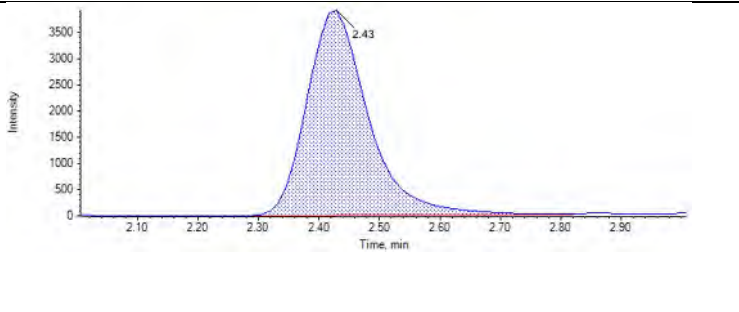
J5386-FS(3)
RT (Exp. RT): 2.43 (2.50) min
Calculated Conc: 108.461543 ng/L
Area: 21787.96576
Modified: (False)



J5391-FS(3)
RT (Exp. RT): 2.43 (2.50) min
Calculated Conc: 93.526106 ng/L
Area: 22757.83348
Modified: (False)



J5393-FS(3)
RT (Exp. RT): 2.43 (2.50) min
Calculated Conc: 94.897137 ng/L
Area: 27672.22064
Modified: (False)



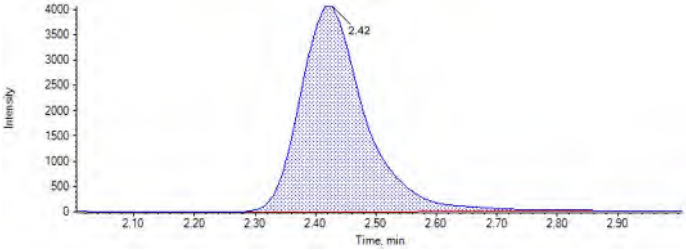
JU09 CCV

RT (Exp. RT): 2.42 (2.50) min

Calculated Conc: 105.917842 ng/L

Area: 30268.76513

Modified: (False)



Analyte: 13C9-PFNA (472.0 / 427.0)

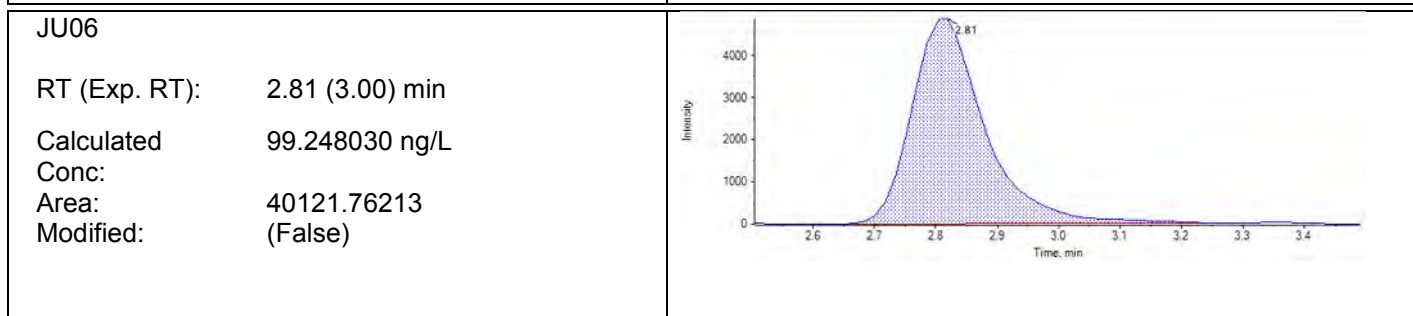
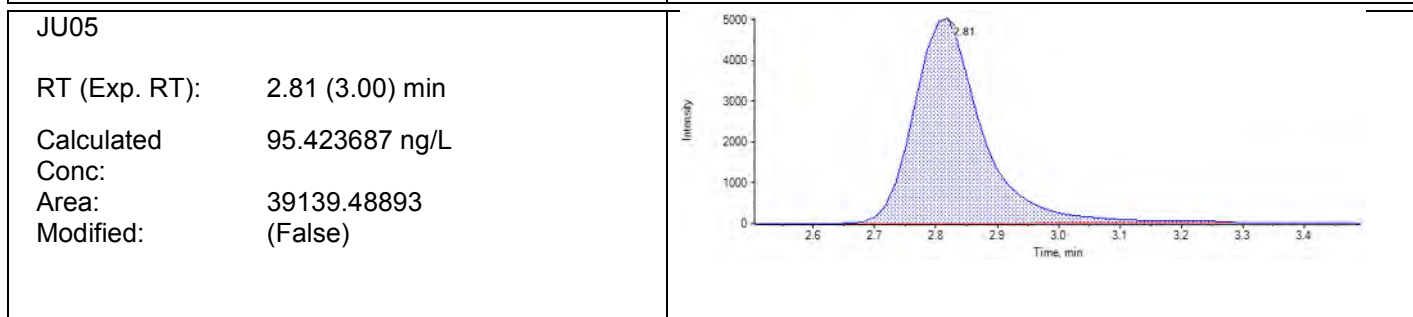
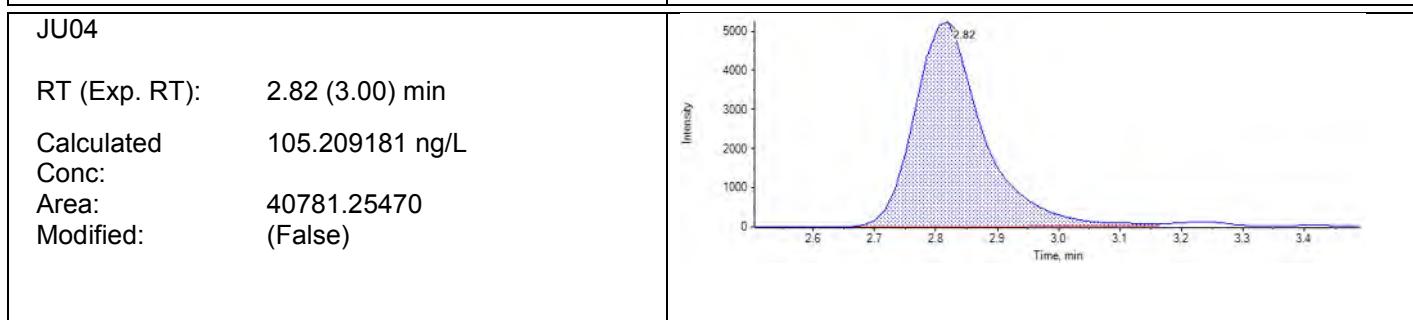
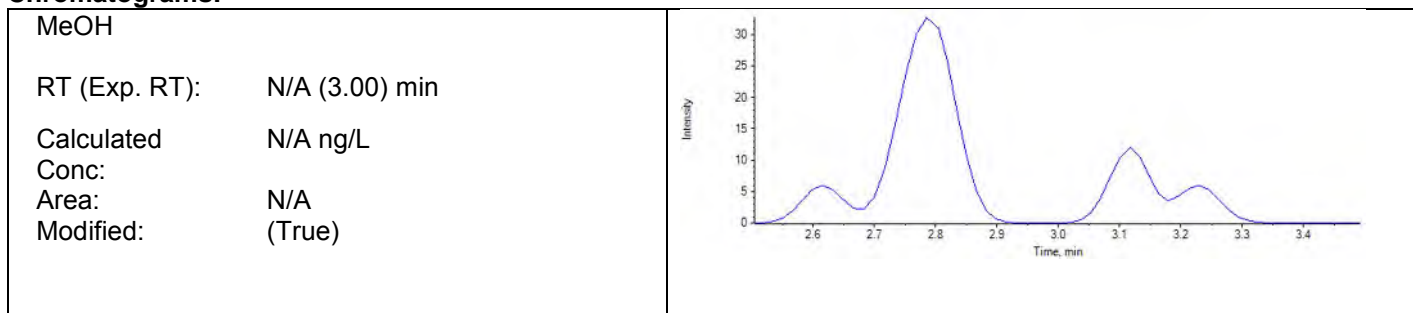
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

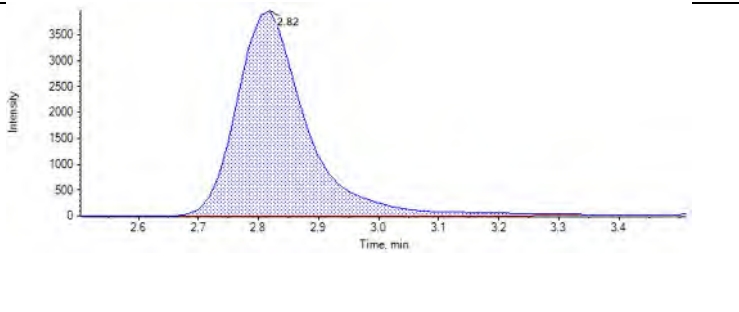
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	40781	2.82	31730	100.00000	105.209181	105
JU05	Standard	3/29/2018 7:57:30 PM	39139	2.81	33570	100.00000	95.423687	95
JU06	Standard	3/29/2018 8:08:16 PM	40122	2.81	33090	100.00000	99.248030	99
JU07	Standard	3/29/2018 8:19:03 PM	31718	2.82	27130	100.00000	95.694828	96
JU08	Standard	3/29/2018 8:29:49 PM	33492	2.82	27340	100.00000	100.282412	100
JU09	Standard	3/29/2018 8:40:36 PM	41524	2.81	30040	100.00000	113.151510	113
JU10	Standard	3/29/2018 8:51:22 PM	32632	2.81	24150	100.00000	110.601530	111
JU11	Standard	3/29/2018 9:02:09 PM	27831	2.81	24540	100.00000	92.831618	93
JU12	Standard	3/29/2018 9:12:55 PM	39301	2.81	36740	100.00000	87.557203	88
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	40379	2.81	34260	100.00000	96.459234	96
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	35560	2.80	32360	100.00000	89.950078	90
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	35158	2.81	30010	100.00000	95.882896	96
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	23285	2.81	18070	100.00000	105.472623	105
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	32426	2.81	28230	100.00000	94.014338	94
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	27269	2.80	19720	100.00000	113.165575	113
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	26534	2.80	23890	100.00000	90.907650	91
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	35662	2.80	28630	100.00000	101.952858	102

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	37152	2.80	28060	100.00000	108.379263	108

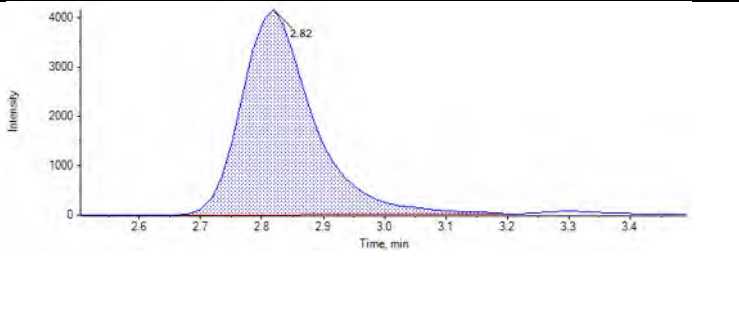
Chromatograms:



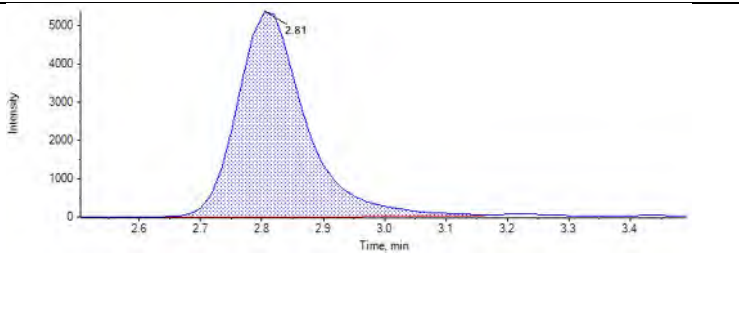
JU07
RT (Exp. RT): 2.82 (3.00) min
Calculated Conc: 95.694828 ng/L
Area: 31717.99244
Modified: (False)



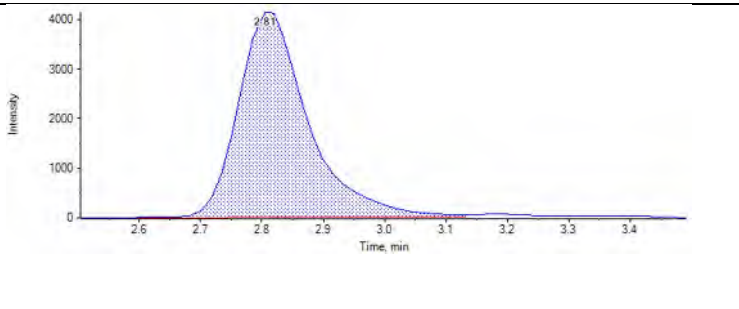
JU08
RT (Exp. RT): 2.82 (3.00) min
Calculated Conc: 100.282412 ng/L
Area: 33492.24291
Modified: (False)



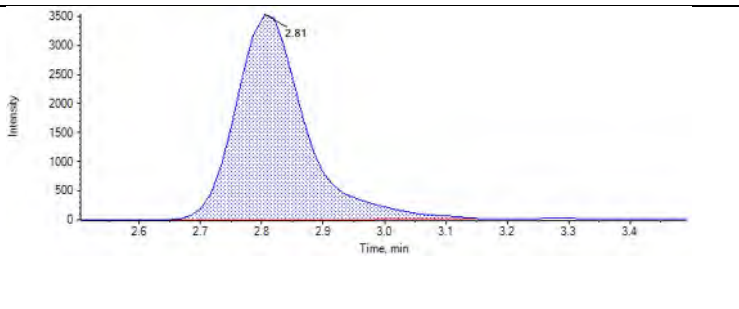
JU09
RT (Exp. RT): 2.81 (3.00) min
Calculated Conc: 113.151510 ng/L
Area: 41523.62371
Modified: (False)

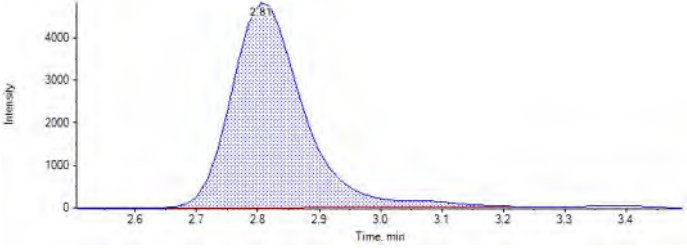
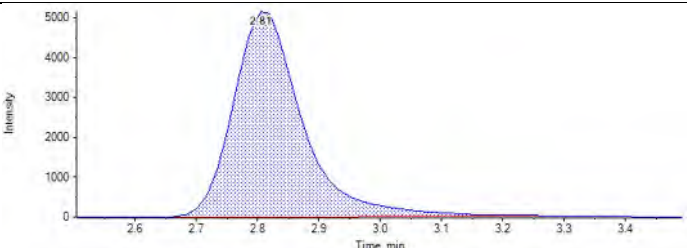
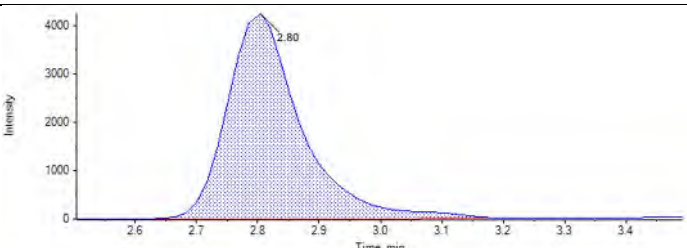
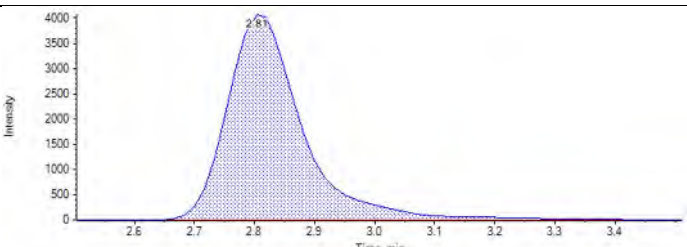
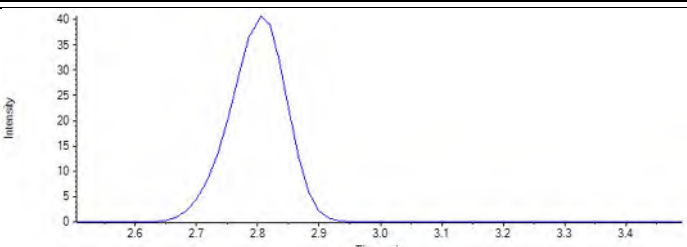


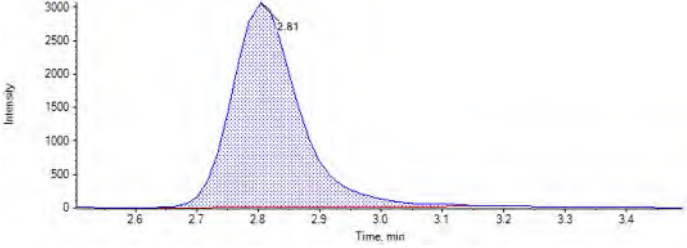
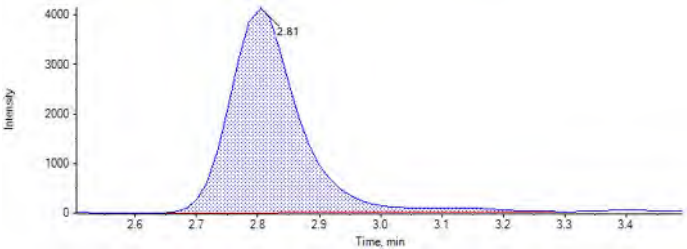
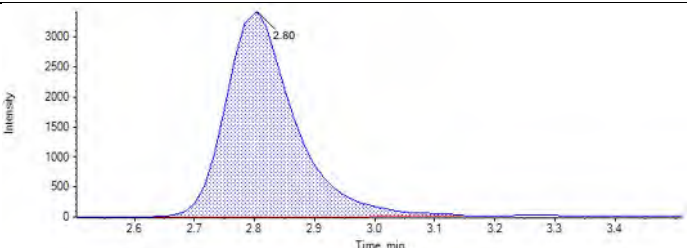
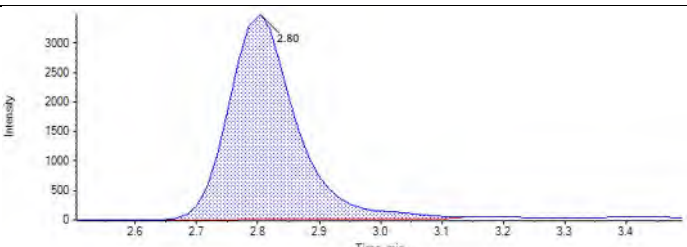
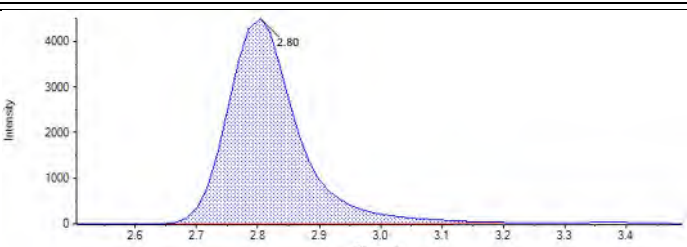
JU10
RT (Exp. RT): 2.81 (3.00) min
Calculated Conc: 110.601530 ng/L
Area: 32632.26097
Modified: (False)



JU11
RT (Exp. RT): 2.81 (3.00) min
Calculated Conc: 92.831618 ng/L
Area: 27831.28520
Modified: (False)

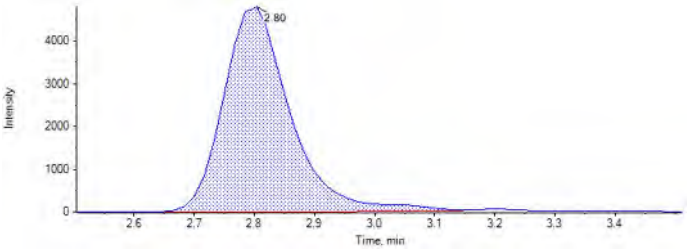


<p>JU12</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 87.557203 ng/L</p> <p>Area: 39300.61227</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 96.459234 ng/L</p> <p>Area: 40379.49639</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 89.950078 ng/L</p> <p>Area: 35559.98786</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 95.882896 ng/L</p> <p>Area: 35158.14576</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 105.472623 ng/L</p> <p>Area: 23284.71300</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 94.014338 ng/L</p> <p>Area: 32425.86576</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 113.165575 ng/L</p> <p>Area: 27268.74886</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 90.907650 ng/L</p> <p>Area: 26534.35091</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 101.952858 ng/L</p> <p>Area: 35661.55547</p> <p>Modified: (False)</p>	

JU09 CCV

RT (Exp. RT): 2.80 (3.00) min
Calculated Conc: 108.379263 ng/L
Area: 37151.96173
Modified: (False)



Analyte: 13C6-PFDA (519.0 / 474.0)

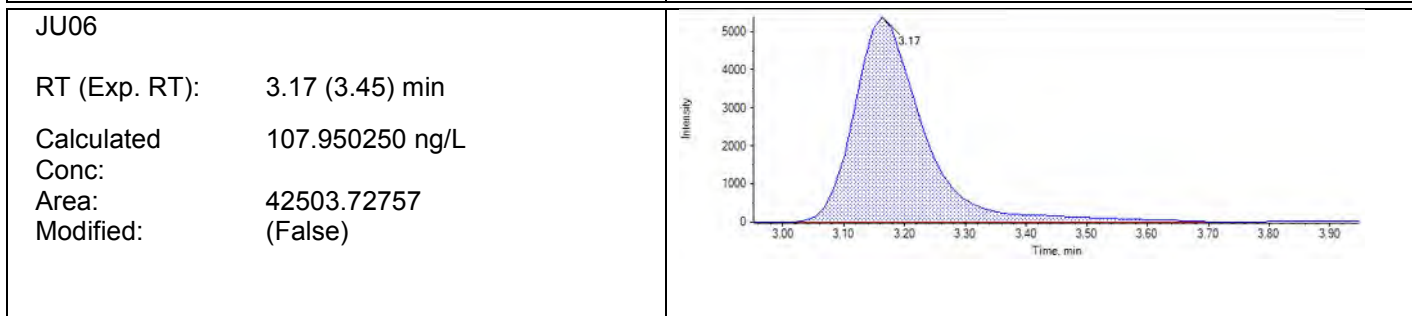
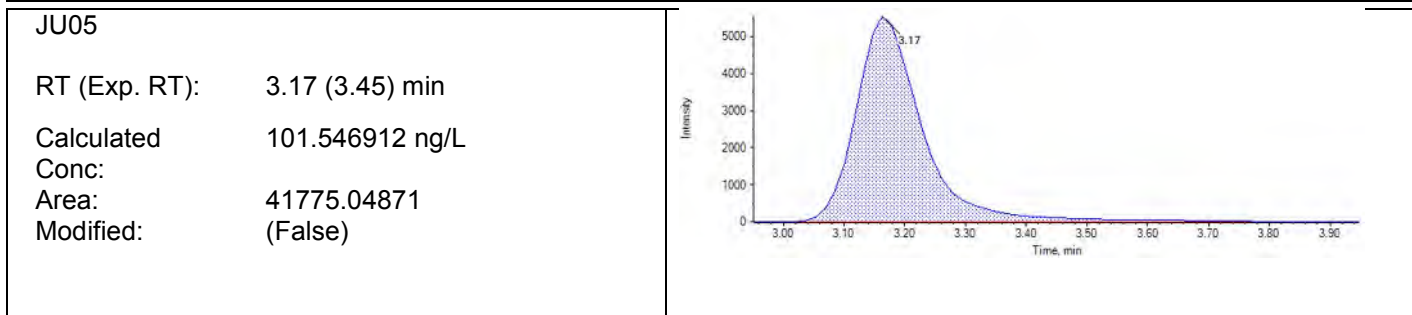
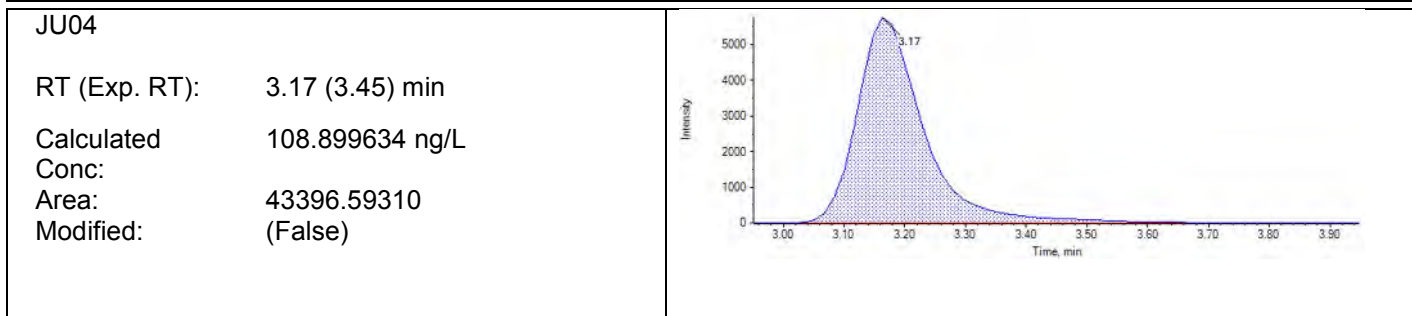
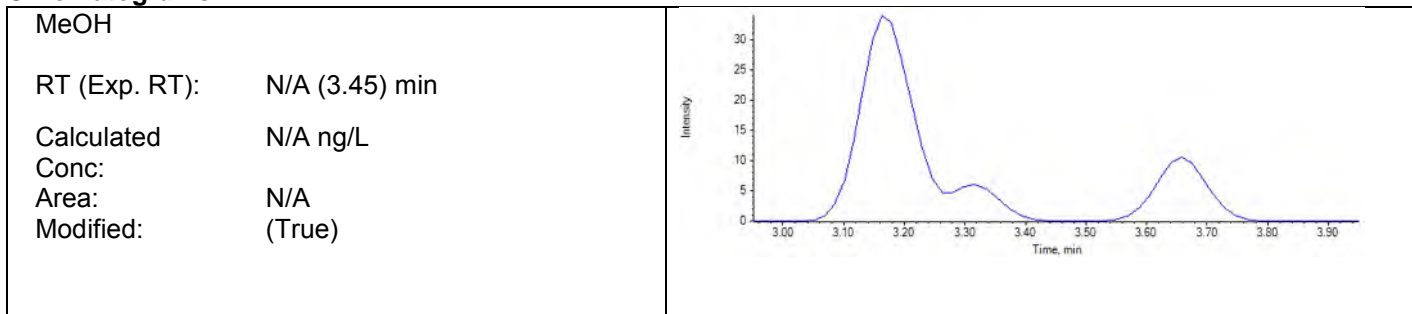
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

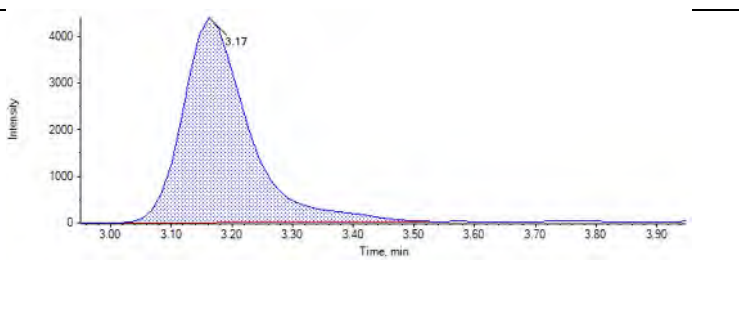
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	43397	3.17	42510	100.00000	108.899634	109
JU05	Standard	3/29/2018 7:57:30 PM	41775	3.17	43880	100.00000	101.546912	102
JU06	Standard	3/29/2018 8:08:16 PM	42504	3.17	42000	100.00000	107.950250	108
JU07	Standard	3/29/2018 8:19:03 PM	32882	3.17	35150	100.00000	99.782235	100
JU08	Standard	3/29/2018 8:29:49 PM	35894	3.17	36890	100.00000	103.796691	104
JU09	Standard	3/29/2018 8:40:36 PM	39131	3.16	40570	100.00000	102.881699	103
JU10	Standard	3/29/2018 8:51:22 PM	37179	3.16	37640	100.00000	105.358612	105
JU11	Standard	3/29/2018 9:02:09 PM	30038	3.16	37280	100.00000	85.952602	86
JU12	Standard	3/29/2018 9:12:55 PM	41203	3.16	52430	100.00000	83.831366	84
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	45765	3.16	45600	100.00000	107.048244	107
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	44230	3.15	40740	100.00000	115.798375	116
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	41496	3.16	39980	100.00000	110.707137	111
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	26830	3.16	27840	100.00000	102.810664	103
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	35951	3.15	39750	100.00000	96.469581	96
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	26970	3.15	30690	100.00000	93.732182	94
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	30367	3.15	34240	100.00000	94.589045	95
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	37525	3.15	39900	100.00000	100.316549	100

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	42287	3.15	40700	100.00000	110.820002	111

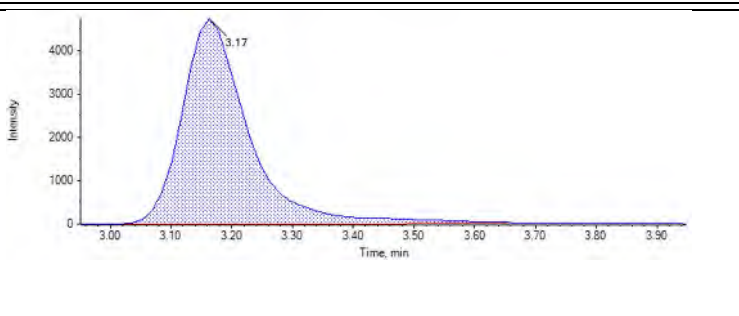
Chromatograms:



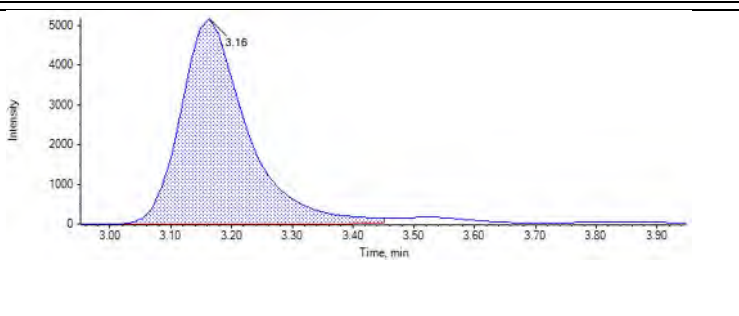
JU07	
RT (Exp. RT):	3.17 (3.45) min
Calculated Conc:	99.782235 ng/L
Area:	32882.47937
Modified:	(False)



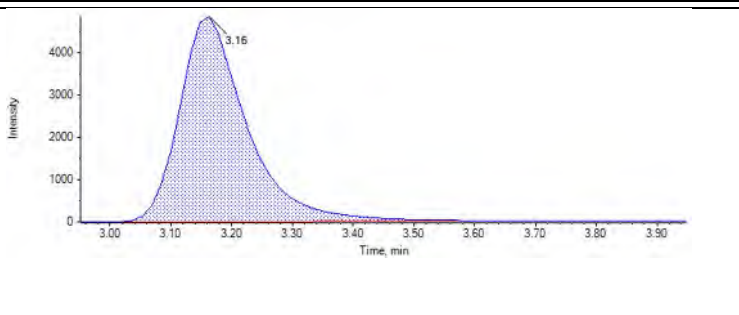
JU08	
RT (Exp. RT):	3.17 (3.45) min
Calculated Conc:	103.796691 ng/L
Area:	35893.55175
Modified:	(False)



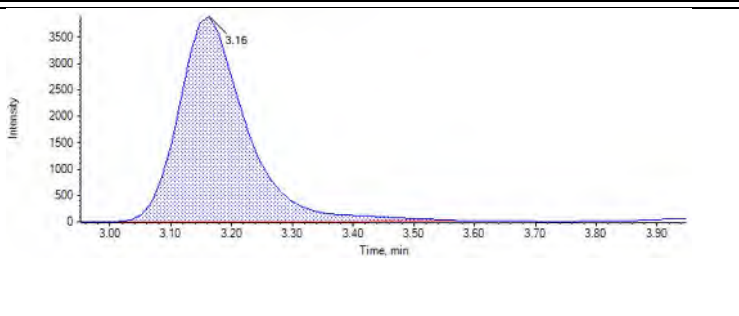
JU09	
RT (Exp. RT):	3.16 (3.45) min
Calculated Conc:	102.881699 ng/L
Area:	39130.66920
Modified:	(False)



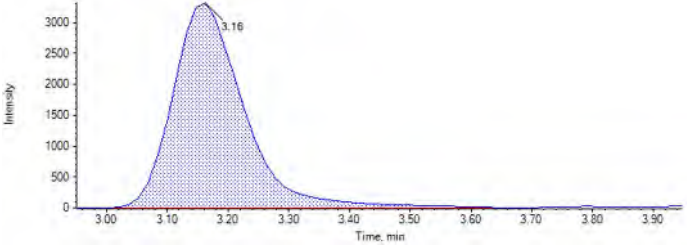
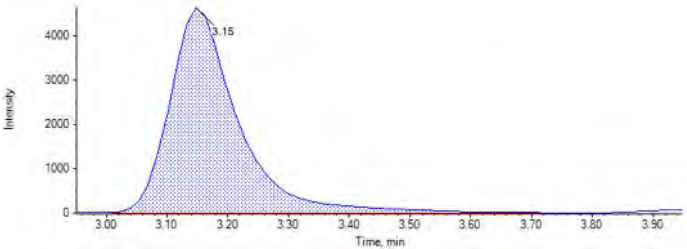
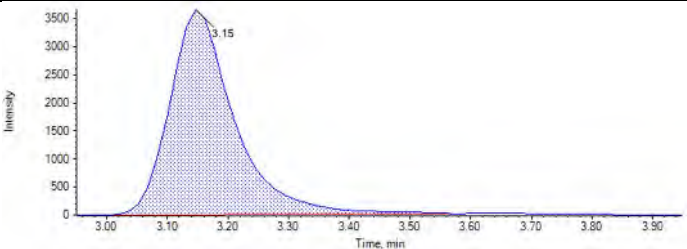
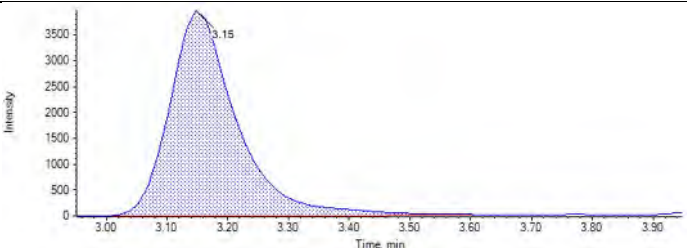
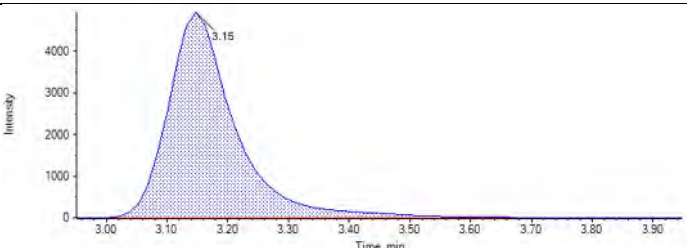
JU10	
RT (Exp. RT):	3.16 (3.45) min
Calculated Conc:	105.358612 ng/L
Area:	37179.45484
Modified:	(False)



JU11	
RT (Exp. RT):	3.16 (3.45) min
Calculated Conc:	85.952602 ng/L
Area:	30038.24339
Modified:	(False)

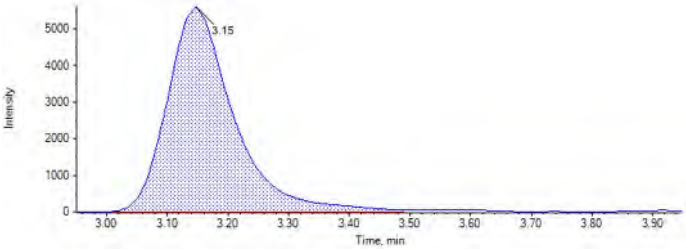


<p>JU12</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 83.831366 ng/L</p> <p>Area: 41203.21176</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 107.048244 ng/L</p> <p>Area: 45765.35143</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.15 (3.45) min</p> <p>Calculated Conc: 115.798375 ng/L</p> <p>Area: 44229.63358</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 110.707137 ng/L</p> <p>Area: 41495.80488</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.45) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.16 (3.45) min</p> <p>Calculated Conc: 102.810664 ng/L</p> <p>Area: 26829.61176</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 3000) and 'Time, min' on the x-axis (3.00 to 3.90). A single peak is visible at 3.16 minutes, reaching an intensity of approximately 3000.</p>
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.15 (3.45) min</p> <p>Calculated Conc: 96.469581 ng/L</p> <p>Area: 35950.85548</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 4000) and 'Time, min' on the x-axis (3.00 to 3.90). A single peak is visible at 3.15 minutes, reaching an intensity of approximately 4000.</p>
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.15 (3.45) min</p> <p>Calculated Conc: 93.732182 ng/L</p> <p>Area: 26969.72210</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 3500) and 'Time, min' on the x-axis (3.00 to 3.90). A single peak is visible at 3.15 minutes, reaching an intensity of approximately 3500.</p>
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.15 (3.45) min</p> <p>Calculated Conc: 94.589045 ng/L</p> <p>Area: 30367.27889</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 3500) and 'Time, min' on the x-axis (3.00 to 3.90). A single peak is visible at 3.15 minutes, reaching an intensity of approximately 3500.</p>
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 3.15 (3.45) min</p> <p>Calculated Conc: 100.316549 ng/L</p> <p>Area: 37524.97968</p> <p>Modified: (False)</p>	 <p>A chromatogram plot with 'Intensity' on the y-axis (0 to 4000) and 'Time, min' on the x-axis (3.00 to 3.90). A single peak is visible at 3.15 minutes, reaching an intensity of approximately 4000.</p>

JU09 CCV

RT (Exp. RT): 3.15 (3.45) min
Calculated Conc: 110.820002 ng/L
Area: 42286.66965
Modified: (False)



Analyte: 13C7-PFUnA (570.0 / 525.0)

Data File	18-0216.wiff	Result Table	18-0216_SIS
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Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

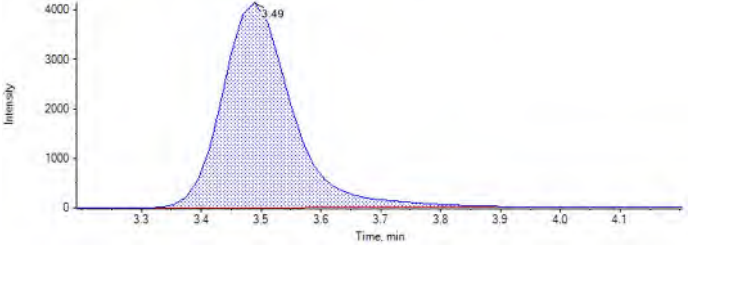
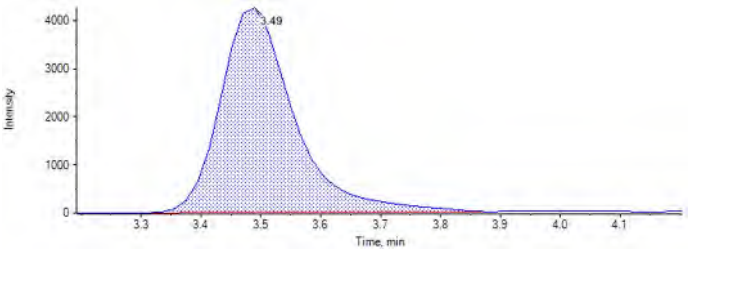
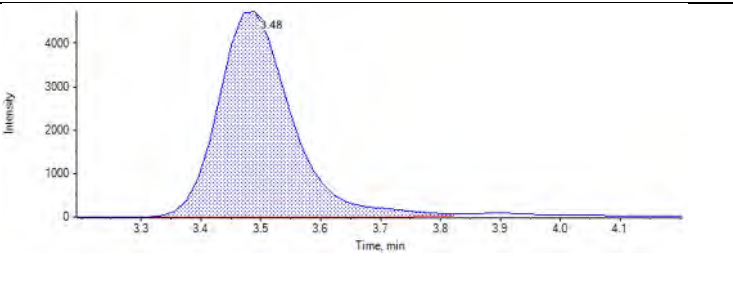
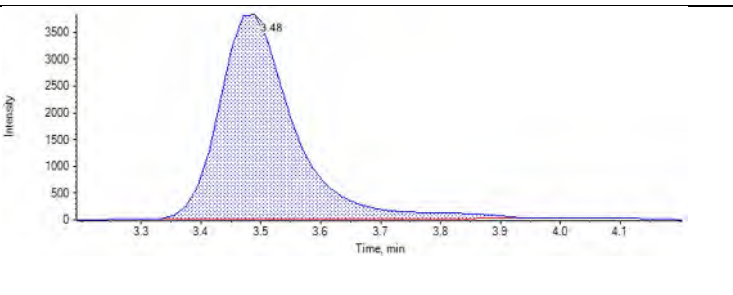
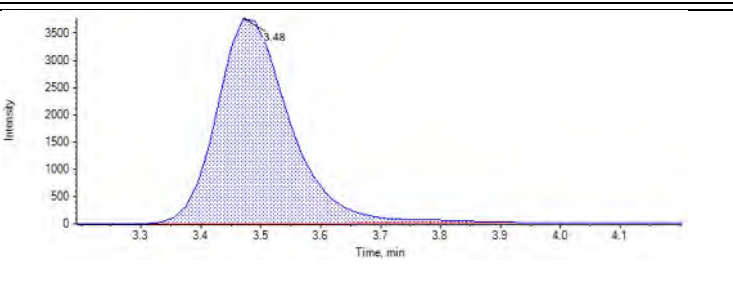
Samples:

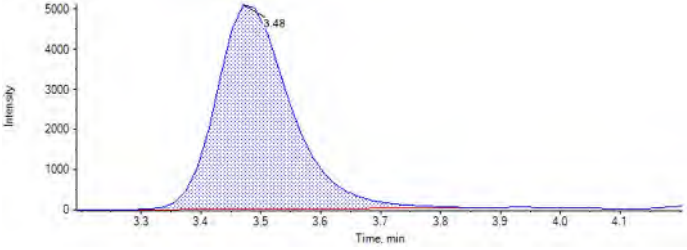
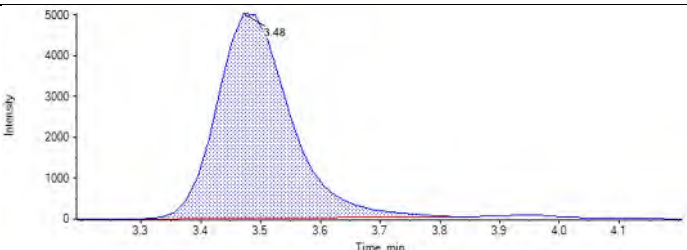
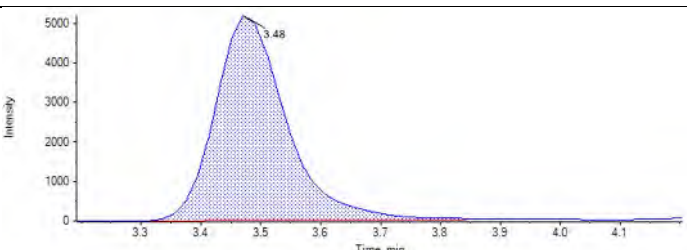
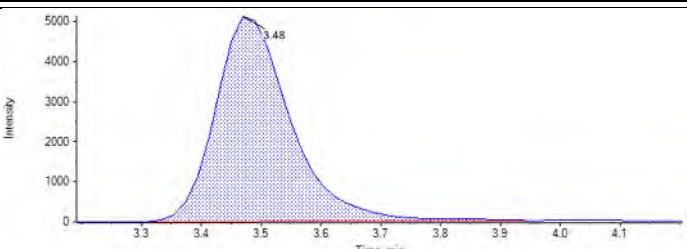
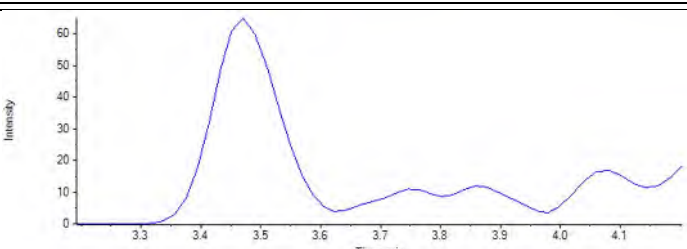
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	43243	3.49	42510	100.00000	105.828823	106
JU05	Standard	3/29/2018 7:57:30 PM	46115	3.49	43880	100.00000	109.322055	109
JU06	Standard	3/29/2018 8:08:16 PM	44702	3.49	42000	100.00000	110.724064	111
JU07	Standard	3/29/2018 8:19:03 PM	33531	3.49	35150	100.00000	99.232649	99
JU08	Standard	3/29/2018 8:29:49 PM	36282	3.49	36890	100.00000	102.322098	102
JU09	Standard	3/29/2018 8:40:36 PM	40215	3.48	40570	100.00000	103.115736	103
JU10	Standard	3/29/2018 8:51:22 PM	33215	3.48	37640	100.00000	91.795790	92
JU11	Standard	3/29/2018 9:02:09 PM	32184	3.48	37280	100.00000	89.814235	90
JU12	Standard	3/29/2018 9:12:55 PM	44271	3.48	52430	100.00000	87.844551	88
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	42997	3.48	45600	100.00000	98.082508	98
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	42651	3.48	40740	100.00000	108.902345	109
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	44771	3.48	39980	100.00000	116.489653	116
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	27704	3.48	27840	100.00000	103.534506	104
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	39907	3.48	39750	100.00000	104.435470	104
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	26693	3.47	30690	100.00000	90.474929	90
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	31755	3.47	34240	100.00000	96.462633	96
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	39026	3.47	39900	100.00000	101.746634	102

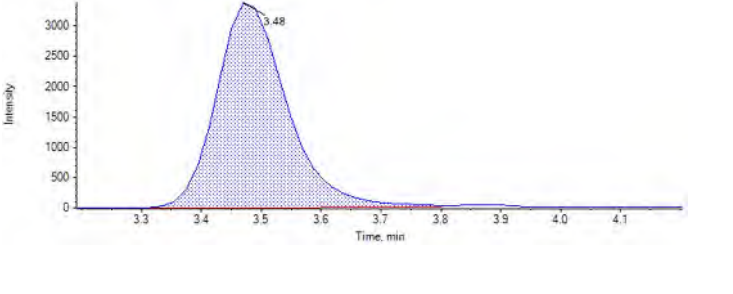
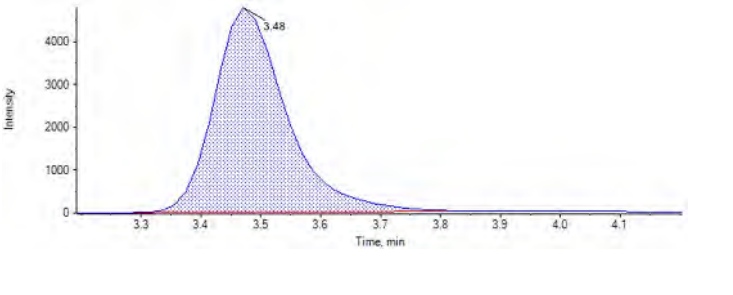
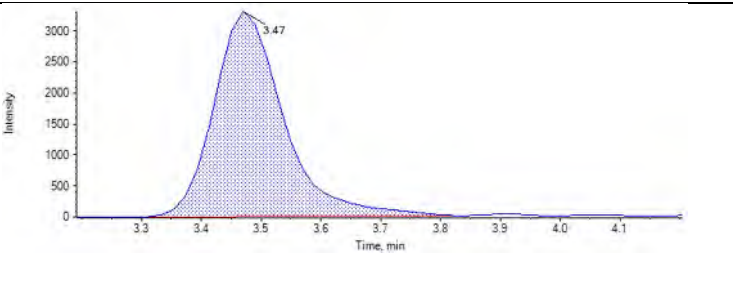
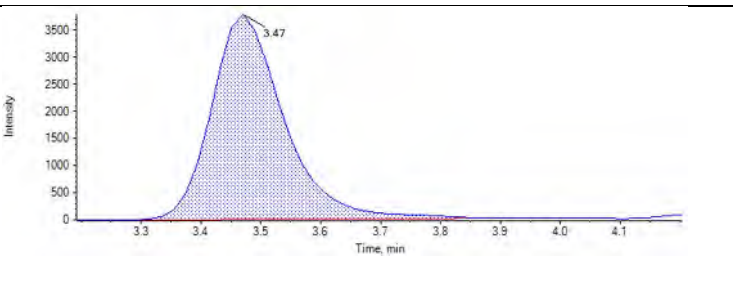
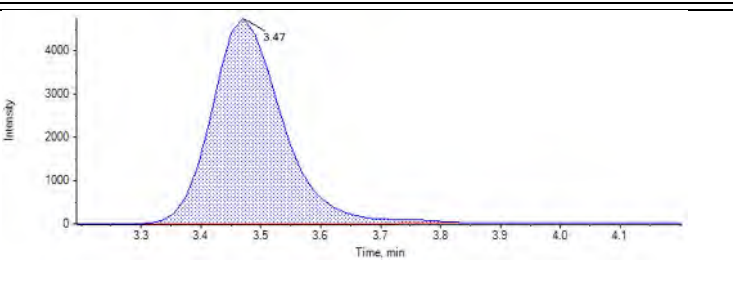
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	38931	3.47	40700	100.00000	99.501407	100

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 105.828823 ng/L</p> <p>Area: 43243.19522</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 109.322055 ng/L</p> <p>Area: 46115.04314</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 110.724064 ng/L</p> <p>Area: 44702.31114</p> <p>Modified: (False)</p>	

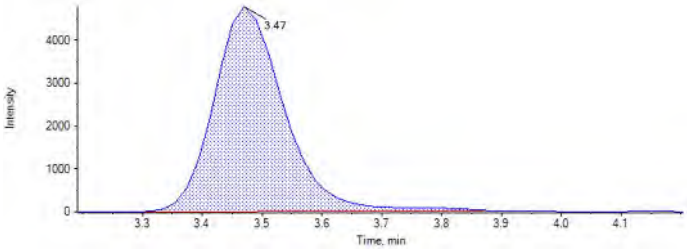
<p>JU07</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 99.232649 ng/L</p> <p>Area: 33531.30901</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU07 showing a single peak at 3.49 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 4000. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 4000.</p>
<p>JU08</p> <p>RT (Exp. RT): 3.49 (3.50) min</p> <p>Calculated Conc: 102.322098 ng/L</p> <p>Area: 36281.64373</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU08 showing a single peak at 3.49 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 4000. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 4000.</p>
<p>JU09</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 103.115736 ng/L</p> <p>Area: 40215.05668</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU09 showing a single peak at 3.48 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 4000. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 4000.</p>
<p>JU10</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 91.795790 ng/L</p> <p>Area: 33215.46449</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU10 showing a single peak at 3.48 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 3500. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 3500.</p>
<p>JU11</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 89.814235 ng/L</p> <p>Area: 32184.38952</p> <p>Modified: (False)</p>	 <p>Chromatogram for JU11 showing a single peak at 3.48 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 3500. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 3500.</p>

<p>JU12</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 87.844551 ng/L</p> <p>Area: 44271.47027</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 98.082508 ng/L</p> <p>Area: 42996.53023</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 108.902345 ng/L</p> <p>Area: 42651.34194</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 116.489653 ng/L</p> <p>Area: 44771.38378</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 103.534506 ng/L</p> <p>Area: 27704.22030</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.48 min. The y-axis is labeled 'Intensity' and ranges from 0 to 3000. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 3000.</p>
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 3.48 (3.50) min</p> <p>Calculated Conc: 104.435470 ng/L</p> <p>Area: 39907.21822</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.48 min. The y-axis is labeled 'Intensity' and ranges from 0 to 4000. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 4000.</p>
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 3.47 (3.50) min</p> <p>Calculated Conc: 90.474929 ng/L</p> <p>Area: 26693.19674</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.47 min. The y-axis is labeled 'Intensity' and ranges from 0 to 3000. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 3000.</p>
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 3.47 (3.50) min</p> <p>Calculated Conc: 96.462633 ng/L</p> <p>Area: 31754.75292</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.47 min. The y-axis is labeled 'Intensity' and ranges from 0 to 3500. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 3500.</p>
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 3.47 (3.50) min</p> <p>Calculated Conc: 101.746634 ng/L</p> <p>Area: 39025.86374</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single peak at 3.47 min. The y-axis is labeled 'Intensity' and ranges from 0 to 4000. The x-axis is labeled 'Time, min' and ranges from 3.3 to 4.1. The peak is shaded in blue and reaches a maximum intensity of approximately 4000.</p>

JU09 CCV

RT (Exp. RT): 3.47 (3.50) min
Calculated Conc: 99.501407 ng/L
Area: 38931.32115
Modified: (False)



Analyte: 13C2-PFTeDA (715.0 / 670.0)

Data File	18-0216.wiff	Result Table	18-0216_SIS
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Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

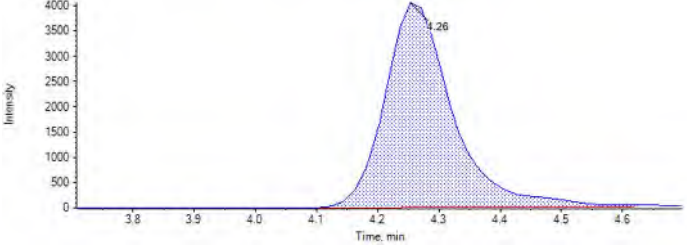
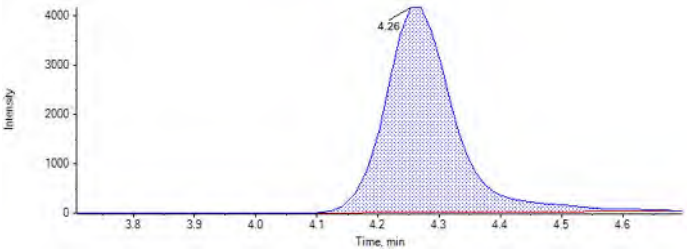
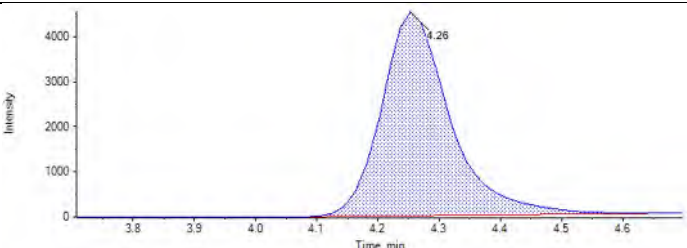
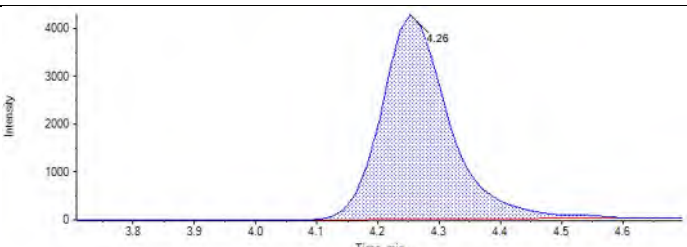
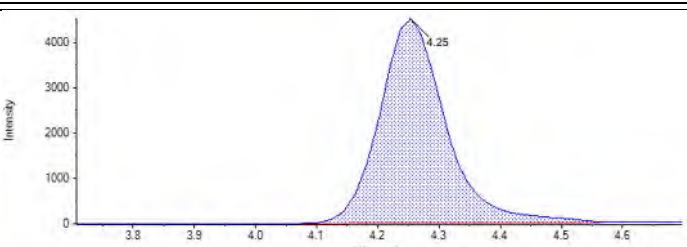
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	36949	4.26	42510	100.00000	96.194582	96
JU05	Standard	3/29/2018 7:57:30 PM	39811	4.27	43880	100.00000	100.398488	100
JU06	Standard	3/29/2018 8:08:16 PM	38357	4.26	42000	100.00000	101.069091	101
JU07	Standard	3/29/2018 8:19:03 PM	31230	4.26	35150	100.00000	98.320640	98
JU08	Standard	3/29/2018 8:29:49 PM	32573	4.26	36890	100.00000	97.723538	98
JU09	Standard	3/29/2018 8:40:36 PM	35234	4.26	40570	100.00000	96.109153	96
JU10	Standard	3/29/2018 8:51:22 PM	32820	4.26	37640	100.00000	96.491454	96
JU11	Standard	3/29/2018 9:02:09 PM	33775	4.25	37280	100.00000	100.268188	100
JU12	Standard	3/29/2018 9:12:55 PM	53735	4.26	52430	100.00000	113.424867	113
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	39338	4.25	45600	100.00000	95.463203	95
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	36526	4.25	40740	100.00000	99.214302	99
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	38019	4.25	39980	100.00000	105.233089	105
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	14269	4.25	27840	100.00000	56.729032	57
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	21388	4.25	39750	100.00000	59.542003	60
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	15509	4.25	30690	100.00000	55.920713	56
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	18041	4.24	34240	100.00000	58.302387	58
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	20909	4.24	39900	100.00000	57.990890	58

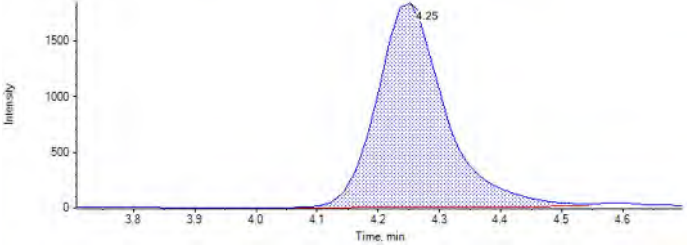
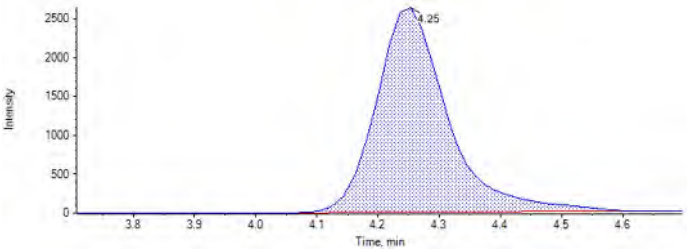
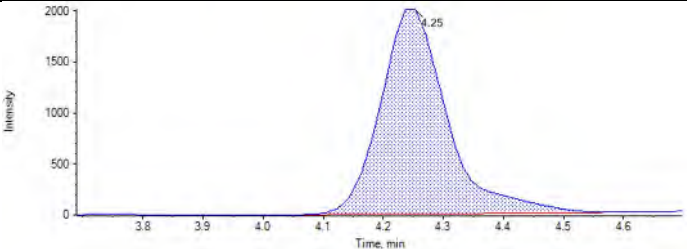
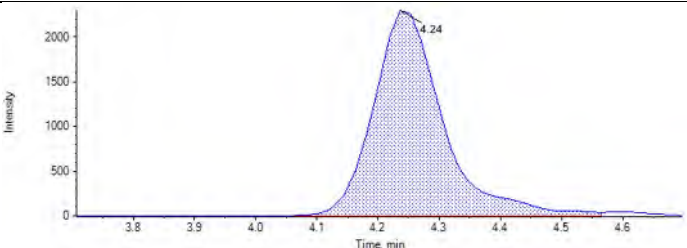
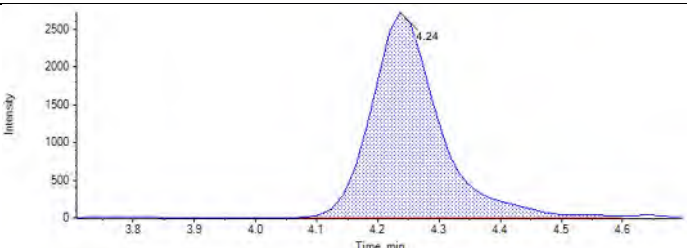
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	37358	4.24	40700	100.00000	101.571655	102

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 96.194582 ng/L</p> <p>Area: 36948.82237</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.27 (4.20) min</p> <p>Calculated Conc: 100.398488 ng/L</p> <p>Area: 39810.55084</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 101.069091 ng/L</p> <p>Area: 38356.81161</p> <p>Modified: (False)</p>	

<p>JU07</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 98.320640 ng/L</p> <p>Area: 31230.34637</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 97.723538 ng/L</p> <p>Area: 32572.63423</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 96.109153 ng/L</p> <p>Area: 35234.22073</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 96.491454 ng/L</p> <p>Area: 32820.30402</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 100.268188 ng/L</p> <p>Area: 33775.31791</p> <p>Modified: (False)</p>	

<p>JU12</p> <p>RT (Exp. RT): 4.26 (4.20) min</p> <p>Calculated Conc: 113.424867 ng/L</p> <p>Area: 53734.54496</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 95.463203 ng/L</p> <p>Area: 39338.15877</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 99.214302 ng/L</p> <p>Area: 36526.32107</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 105.233089 ng/L</p> <p>Area: 38019.08571</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (4.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 56.729032 ng/L</p> <p>Area: 14269.29005</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 59.542003 ng/L</p> <p>Area: 21387.64902</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 4.25 (4.20) min</p> <p>Calculated Conc: 55.920713 ng/L</p> <p>Area: 15508.90802</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 4.24 (4.20) min</p> <p>Calculated Conc: 58.302387 ng/L</p> <p>Area: 18041.47940</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 4.24 (4.20) min</p> <p>Calculated Conc: 57.990890 ng/L</p> <p>Area: 20908.76728</p> <p>Modified: (False)</p>	

JU09 CCV

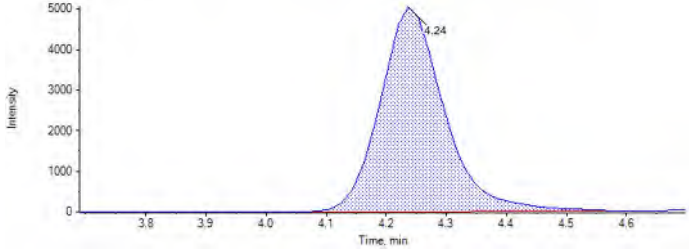
RT (Exp. RT): 4.24 (4.20) min

Calculated 101.571655 ng/L

Conc:

Area: 37357.57079

Modified: (False)



Analyte: 13C3-PFBS (302.0 / 99.0)

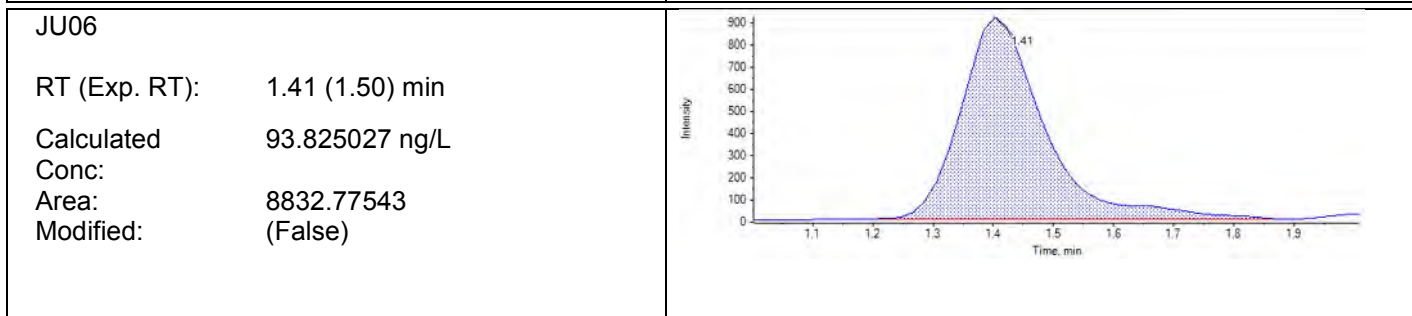
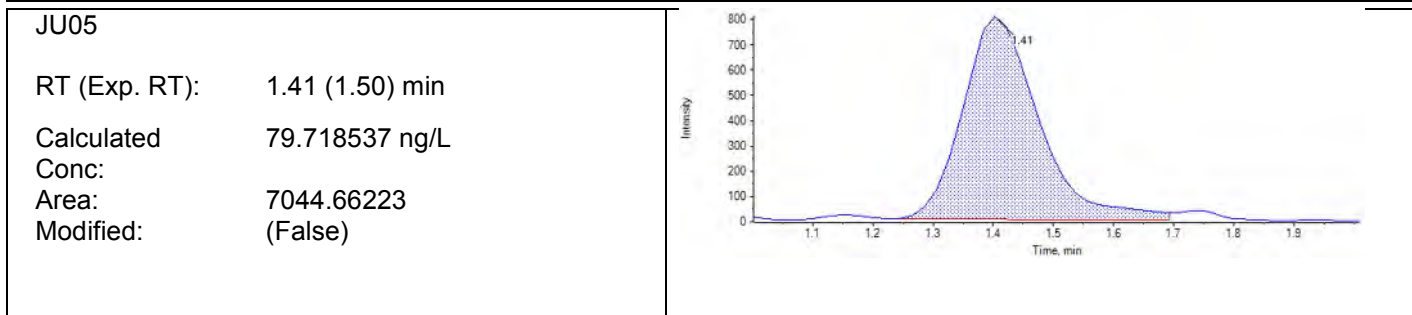
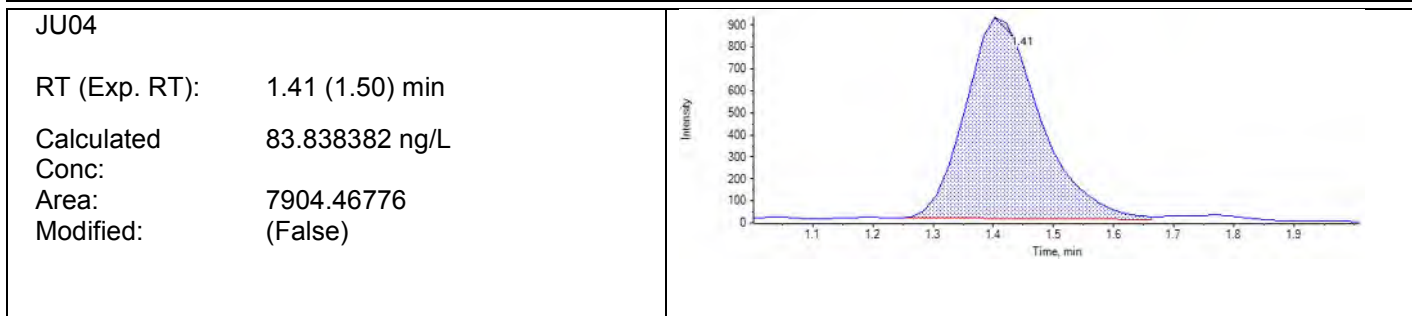
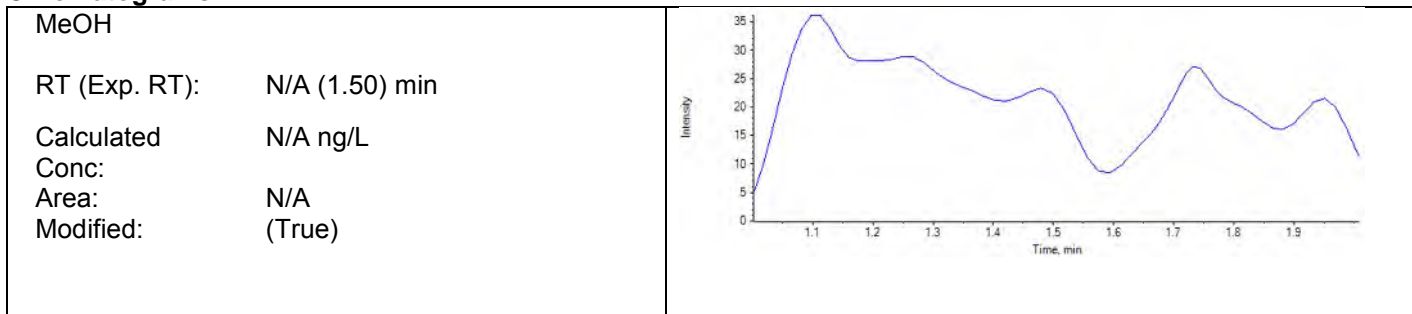
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

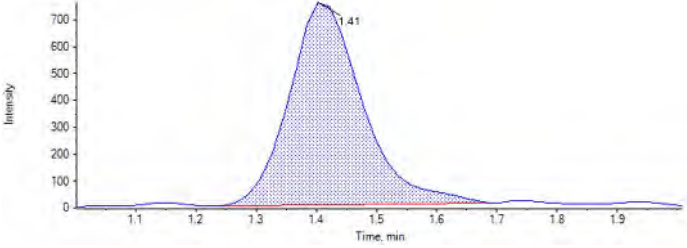
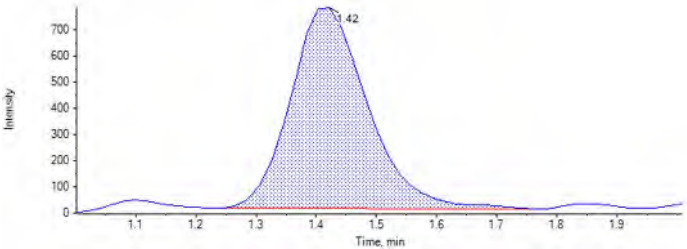
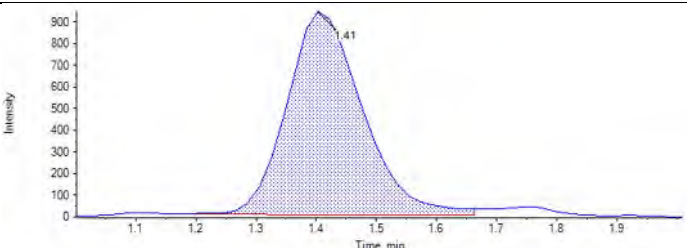
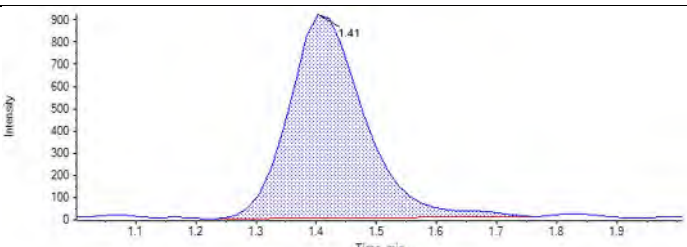
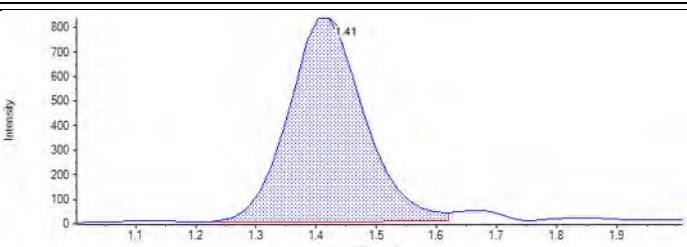
Samples:

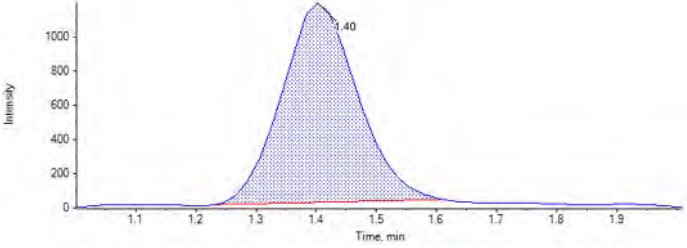
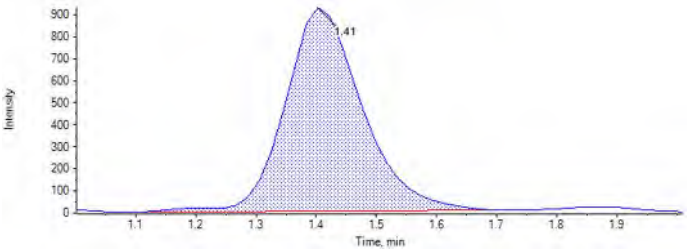
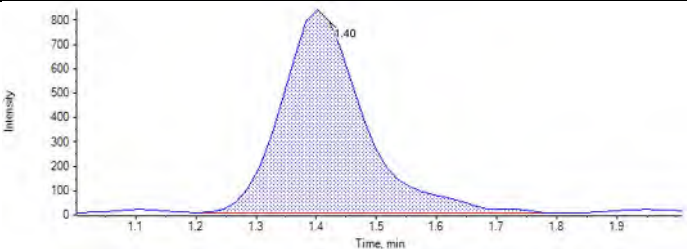
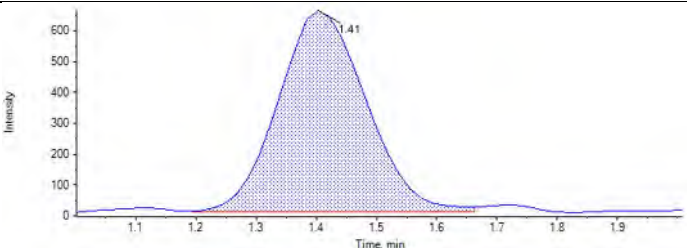
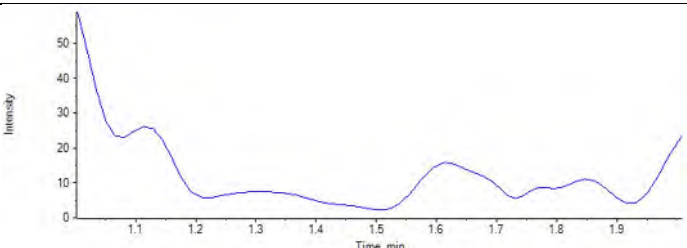
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	7904	1.41	11010	92.90000	83.838382	90
JU05	Standard	3/29/2018 7:57:30 PM	7045	1.41	10320	92.90000	79.718537	86
JU06	Standard	3/29/2018 8:08:16 PM	8833	1.41	10990	92.90000	93.825027	101
JU07	Standard	3/29/2018 8:19:03 PM	6412	1.41	8191	92.90000	91.417691	98
JU08	Standard	3/29/2018 8:29:49 PM	6875	1.42	8594	92.90000	93.426806	101
JU09	Standard	3/29/2018 8:40:36 PM	8218	1.41	10450	92.90000	91.861149	99
JU10	Standard	3/29/2018 8:51:22 PM	8008	1.41	10140	92.90000	92.255190	99
JU11	Standard	3/29/2018 9:02:09 PM	7299	1.41	9230	92.90000	92.347848	99
JU12	Standard	3/29/2018 9:12:55 PM	10168	1.40	10110	92.90000	117.409369	126
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	8236	1.41	10510	92.90000	91.470082	98
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	7922	1.40	10710	92.90000	86.403669	93
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	6641	1.41	10090	92.90000	76.845073	83
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	4528	1.41	5505	92.90000	96.045405	103
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	6222	1.41	9766	92.90000	74.393234	80
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	5265	1.41	6756	92.90000	91.014622	98
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	5442	1.42	8856	92.90000	71.761579	77
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	7973	1.40	8973	92.90000	103.765516	112

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	7535	1.41	10100	92.90000	87.154300	94

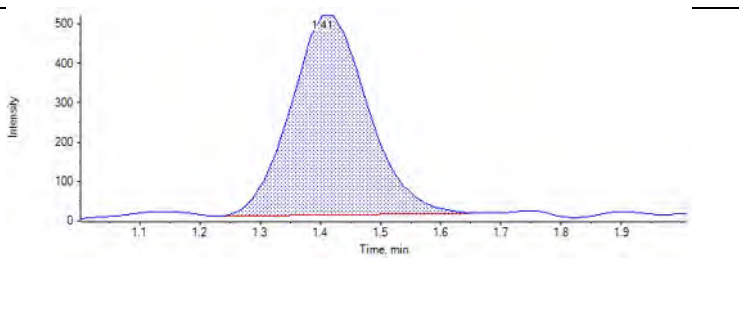
Chromatograms:



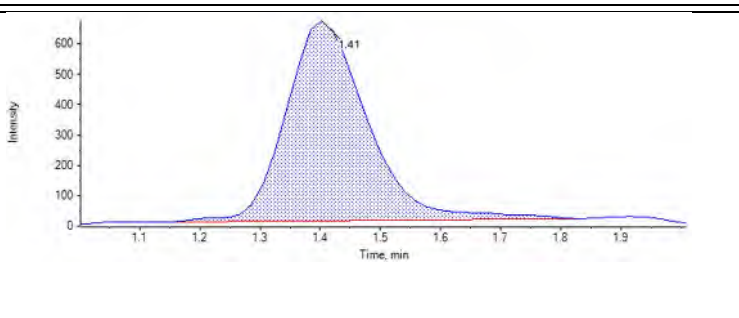
<p>JU07</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 91.417691 ng/L</p> <p>Area: 6411.92143</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.42 (1.50) min</p> <p>Calculated Conc: 93.426806 ng/L</p> <p>Area: 6875.21469</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 91.861149 ng/L</p> <p>Area: 8217.65595</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 92.255190 ng/L</p> <p>Area: 8007.57628</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 92.347848 ng/L</p> <p>Area: 7298.84436</p> <p>Modified: (True)</p>	

<p>JU12</p> <p>RT (Exp. RT): 1.40 (1.50) min</p> <p>Calculated Conc: 117.409369 ng/L</p> <p>Area: 10167.85797</p> <p>Modified: (True)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 91.470082 ng/L</p> <p>Area: 8235.89716</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 1.40 (1.50) min</p> <p>Calculated Conc: 86.403669 ng/L</p> <p>Area: 7922.44404</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 1.41 (1.50) min</p> <p>Calculated Conc: 76.845073 ng/L</p> <p>Area: 6640.98860</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

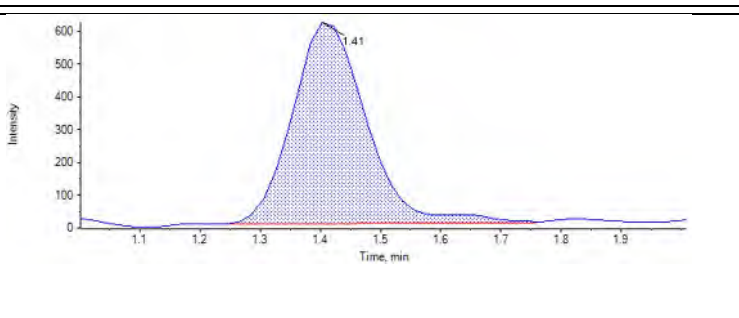
CQ350PB-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	96.045405 ng/L
Area:	4527.72202
Modified:	(False)



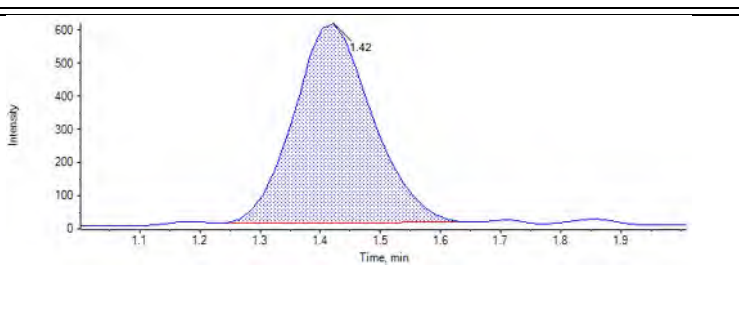
CQ351LCS-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	74.393234 ng/L
Area:	6221.74554
Modified:	(False)



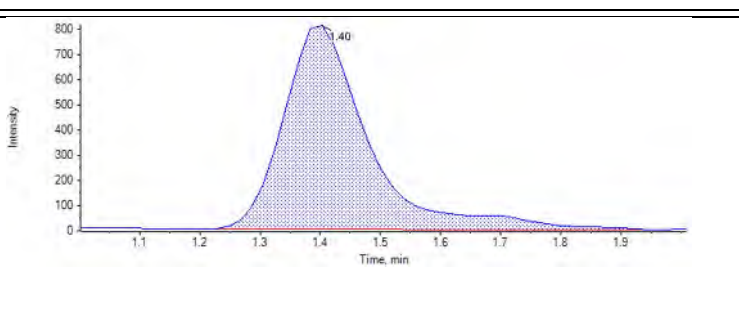
J5386-FS(3)	
RT (Exp. RT):	1.41 (1.50) min
Calculated Conc:	91.014622 ng/L
Area:	5265.35372
Modified:	(False)



J5391-FS(3)	
RT (Exp. RT):	1.42 (1.50) min
Calculated Conc:	71.761579 ng/L
Area:	5441.89955
Modified:	(False)

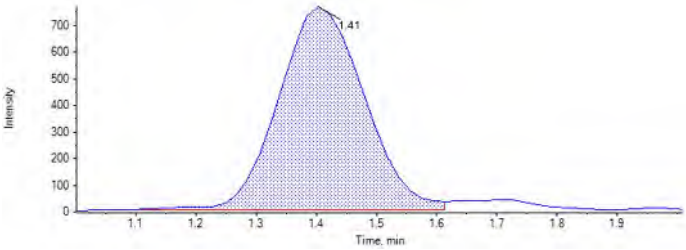


J5393-FS(3)	
RT (Exp. RT):	1.40 (1.50) min
Calculated Conc:	103.765516 ng/L
Area:	7973.43746
Modified:	(False)



JU09 CCV

RT (Exp. RT): 1.41 (1.50) min
Calculated Conc: 87.154300 ng/L
Area: 7535.29313
Modified: (False)



Analyte: 13C3-PFHxS (402.0 / 99.0)

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

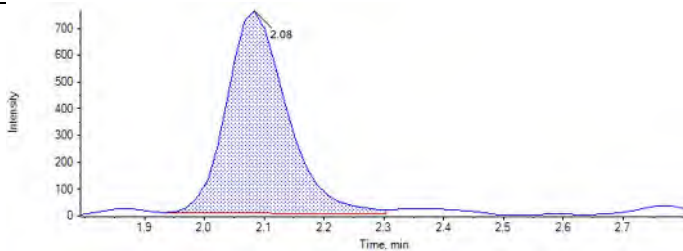
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	8341	2.09	11010	94.60000	101.347047	107
JU05	Standard	3/29/2018 7:57:30 PM	8473	2.09	10320	94.60000	109.839708	116
JU06	Standard	3/29/2018 8:08:16 PM	7439	2.08	10990	94.60000	90.519680	96
JU07	Standard	3/29/2018 8:19:03 PM	5304	2.08	8191	94.60000	86.632216	92
JU08	Standard	3/29/2018 8:29:49 PM	6335	2.09	8594	94.60000	98.622905	104
JU09	Standard	3/29/2018 8:40:36 PM	7359	2.08	10450	94.60000	94.243028	100
JU10	Standard	3/29/2018 8:51:22 PM	6704	2.08	10140	94.60000	88.481379	94
JU11	Standard	3/29/2018 9:02:09 PM	5324	2.08	9230	94.60000	77.164371	82
JU12	Standard	3/29/2018 9:12:55 PM	7904	2.07	10110	94.60000	104.549667	111
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	7891	2.08	10510	94.60000	100.391686	106
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	7291	2.08	10710	94.60000	91.096126	96
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	7052	2.08	10090	94.60000	93.476881	99
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	3479	2.08	5505	94.60000	84.545017	89
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	6813	2.07	9766	94.60000	93.321657	99
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	4848	2.08	6756	94.60000	96.006959	101
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	4292	2.09	8856	94.60000	64.835846	69
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	6607	2.07	8973	94.60000	98.497421	104

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	8306	2.07	10100	94.60000	110.057938	116

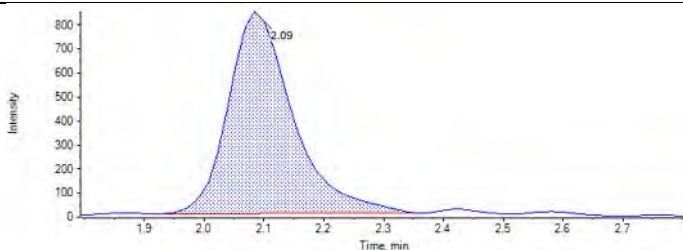
Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.09 (2.10) min</p> <p>Calculated Conc: 101.347047 ng/L</p> <p>Area: 8341.09056</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.10) min</p> <p>Calculated Conc: 109.839708 ng/L</p> <p>Area: 8473.09789</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 90.519680 ng/L</p> <p>Area: 7438.81053</p> <p>Modified: (False)</p>	

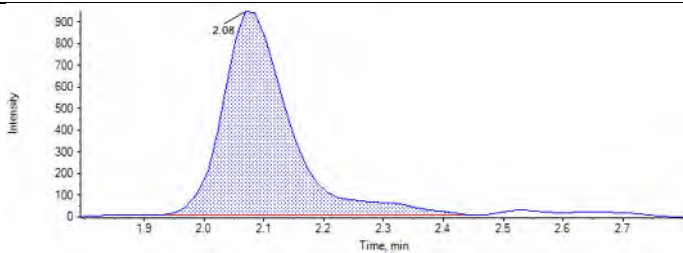
JU07
RT (Exp. RT): 2.08 (2.10) min
Calculated Conc: 86.632216 ng/L
Area: 5304.19357
Modified: (False)



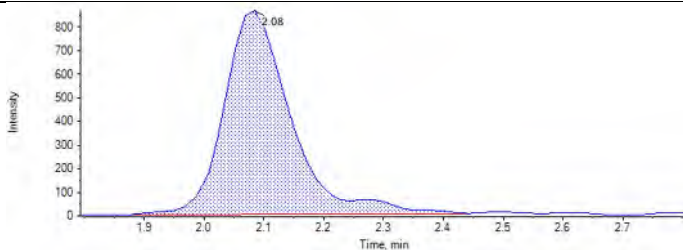
JU08
RT (Exp. RT): 2.09 (2.10) min
Calculated Conc: 98.622905 ng/L
Area: 6335.40741
Modified: (False)



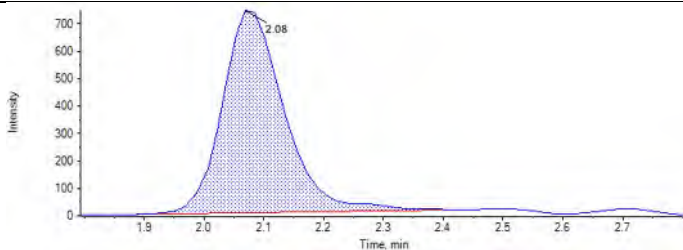
JU09
RT (Exp. RT): 2.08 (2.10) min
Calculated Conc: 94.243028 ng/L
Area: 7359.48300
Modified: (False)



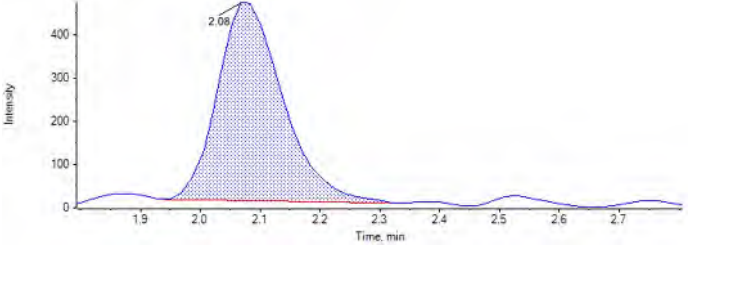
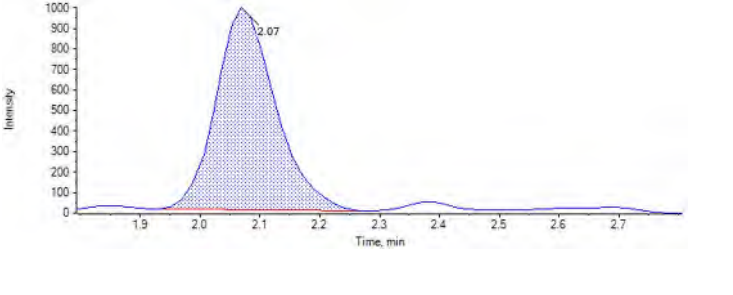
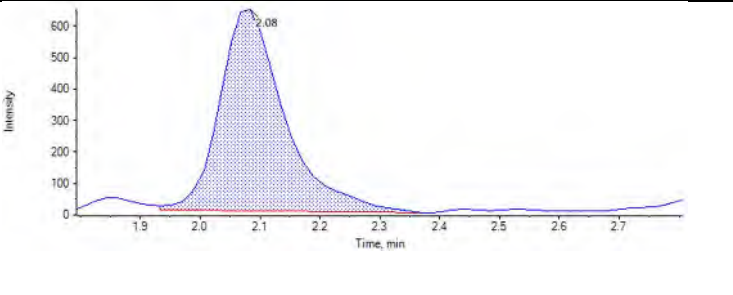
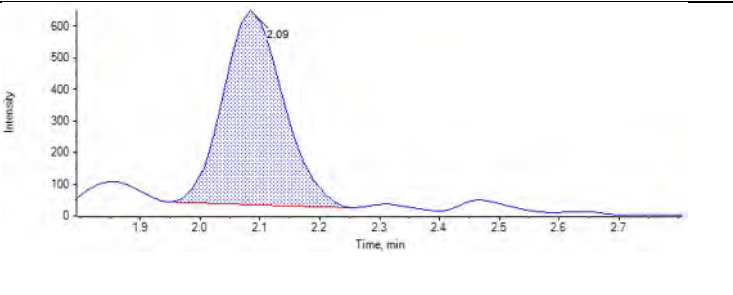
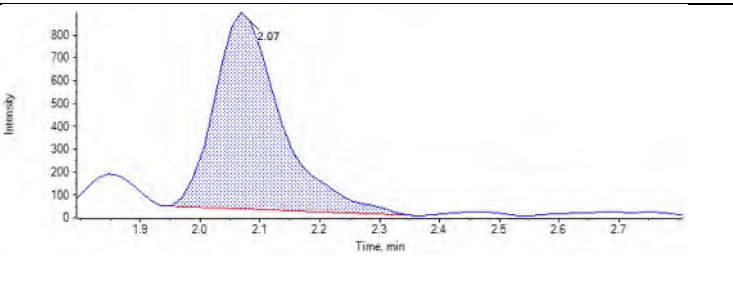
JU10
RT (Exp. RT): 2.08 (2.10) min
Calculated Conc: 88.481379 ng/L
Area: 6704.15671
Modified: (False)



JU11
RT (Exp. RT): 2.08 (2.10) min
Calculated Conc: 77.164371 ng/L
Area: 5323.85406
Modified: (False)



<p>JU12</p> <p>RT (Exp. RT): 2.07 (2.10) min</p> <p>Calculated Conc: 104.549667 ng/L</p> <p>Area: 7903.71672</p> <p>Modified: (False)</p>	
<p>JP83 IB</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 100.391686 ng/L</p> <p>Area: 7890.62847</p> <p>Modified: (False)</p>	
<p>JU13 ICC</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 91.096126 ng/L</p> <p>Area: 7291.36604</p> <p>Modified: (False)</p>	
<p>JU38 Branch</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 93.476881 ng/L</p> <p>Area: 7051.84760</p> <p>Modified: (False)</p>	
<p>MeOH</p> <p>RT (Exp. RT): N/A (2.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	

<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 84.545017 ng/L</p> <p>Area: 3479.15017</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single sharp peak at 2.08 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 400. The x-axis is labeled 'Time, min' and ranges from 1.9 to 2.7. The peak is shaded in blue and labeled with its retention time, 2.08.</p>
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.10) min</p> <p>Calculated Conc: 93.321657 ng/L</p> <p>Area: 6813.07613</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single sharp peak at 2.07 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 1000. The x-axis is labeled 'Time, min' and ranges from 1.9 to 2.7. The peak is shaded in blue and labeled with its retention time, 2.07.</p>
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.08 (2.10) min</p> <p>Calculated Conc: 96.006959 ng/L</p> <p>Area: 4848.42957</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single sharp peak at 2.08 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 600. The x-axis is labeled 'Time, min' and ranges from 1.9 to 2.7. The peak is shaded in blue and labeled with its retention time, 2.08.</p>
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 2.09 (2.10) min</p> <p>Calculated Conc: 64.835846 ng/L</p> <p>Area: 4291.96043</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single sharp peak at 2.09 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 600. The x-axis is labeled 'Time, min' and ranges from 1.9 to 2.7. The peak is shaded in blue and labeled with its retention time, 2.09.</p>
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 2.07 (2.10) min</p> <p>Calculated Conc: 98.497421 ng/L</p> <p>Area: 6606.92536</p> <p>Modified: (False)</p>	 <p>Chromatogram showing a single sharp peak at 2.07 minutes. The y-axis is labeled 'Intensity' and ranges from 0 to 800. The x-axis is labeled 'Time, min' and ranges from 1.9 to 2.7. The peak is shaded in blue and labeled with its retention time, 2.07.</p>

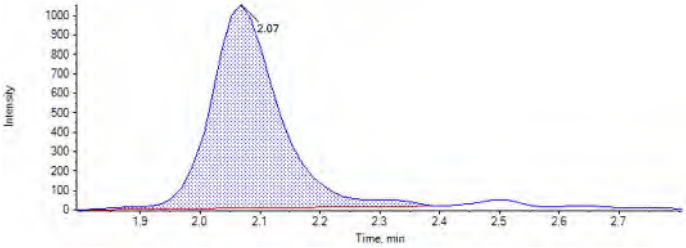
JU09 CCV

RT (Exp. RT): 2.07 (2.10) min

Calculated Conc: 110.057938 ng/L

Area: 8306.43555

Modified: (False)



Analyte: 13C8-PFOS (507.0 / 99.0)

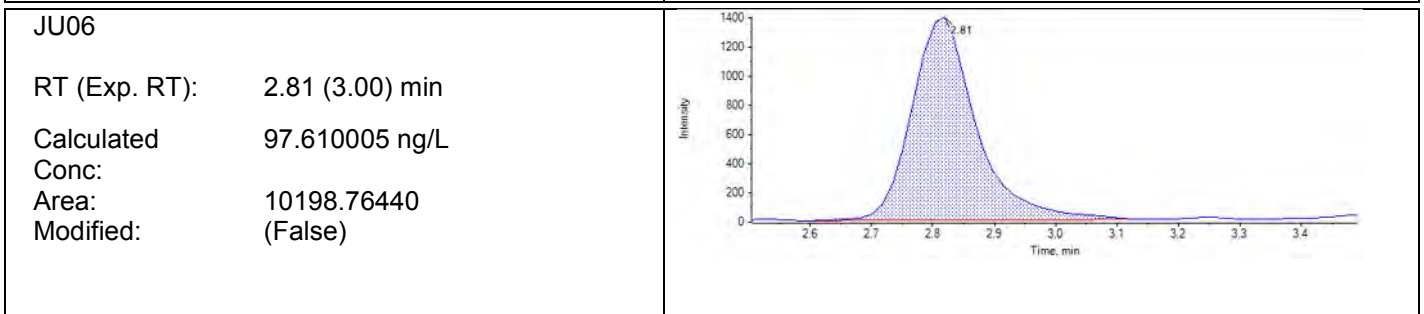
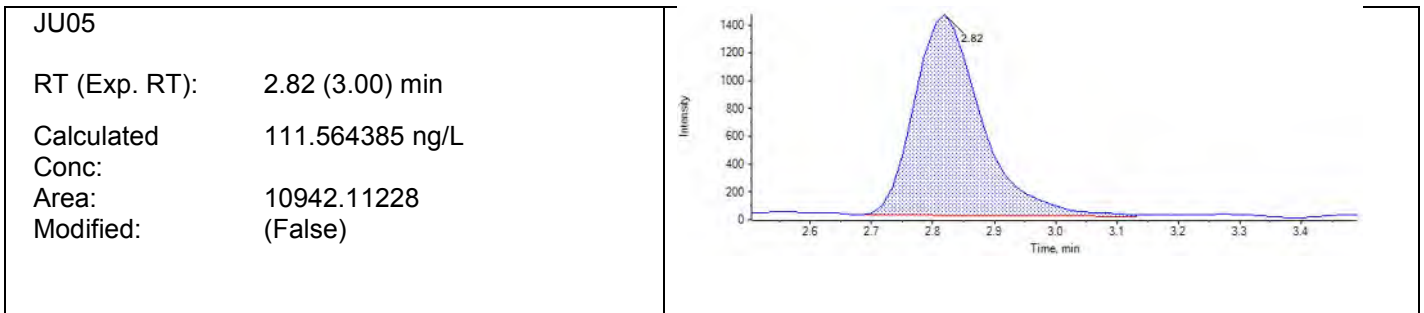
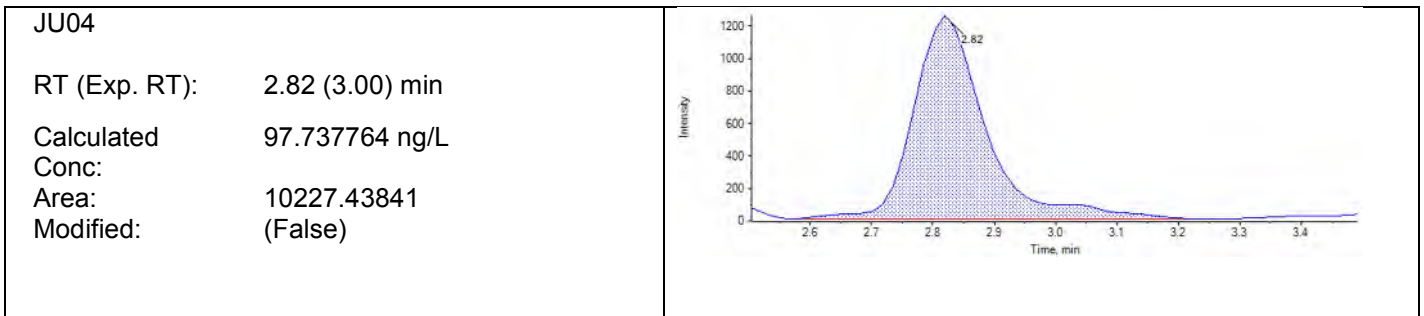
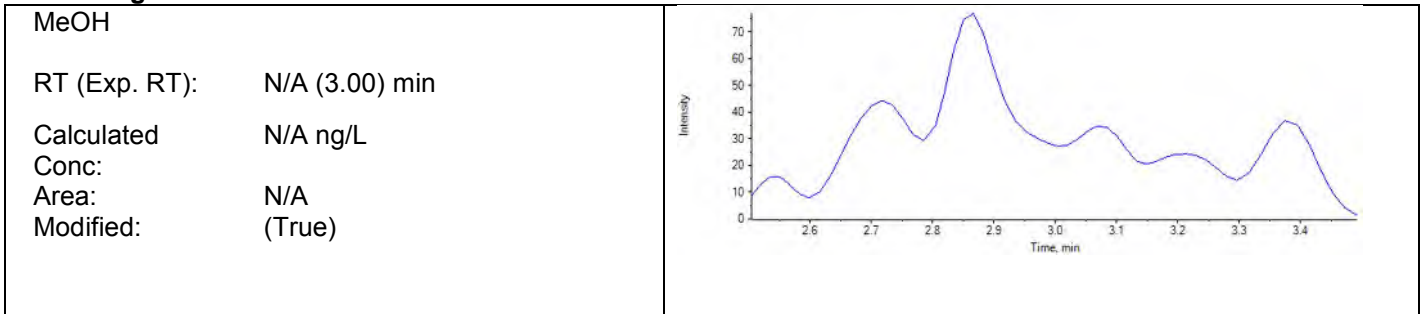
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

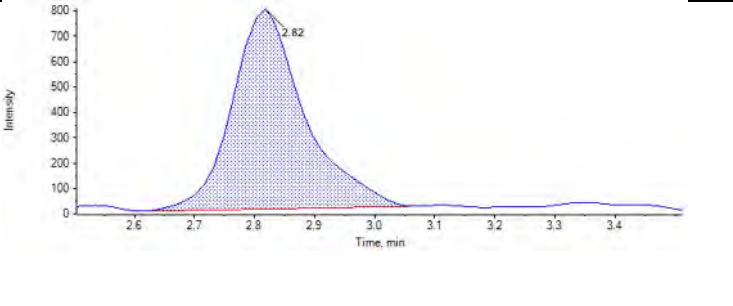
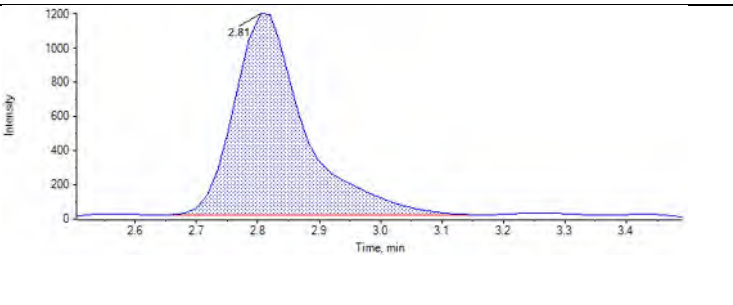
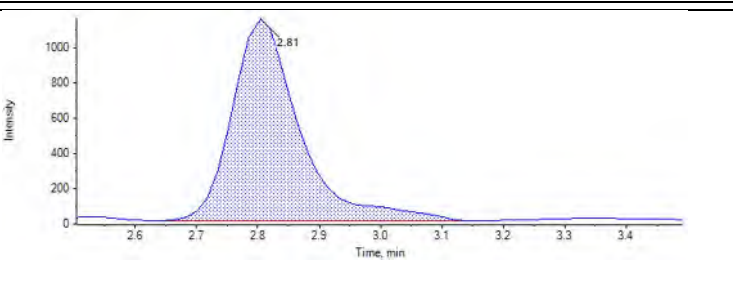
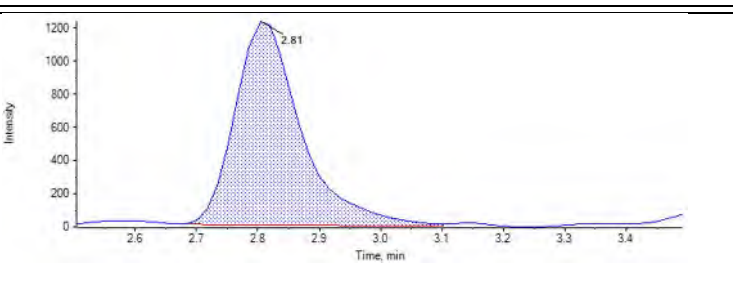
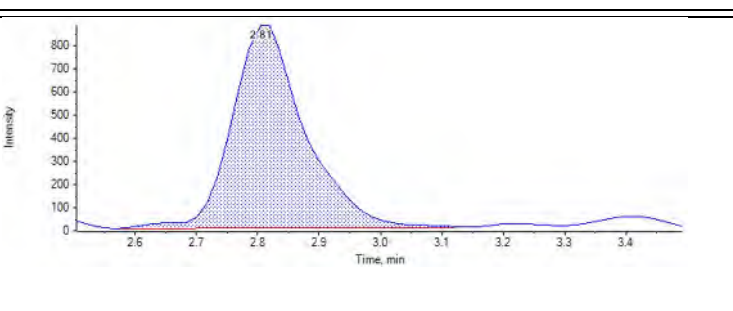
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	10227	2.82	11010	95.70000	97.737764	102
JU05	Standard	3/29/2018 7:57:30 PM	10942	2.82	10320	95.70000	111.564385	117
JU06	Standard	3/29/2018 8:08:16 PM	10199	2.81	10990	95.70000	97.610005	102
JU07	Standard	3/29/2018 8:19:03 PM	6608	2.82	8191	95.70000	84.883206	89
JU08	Standard	3/29/2018 8:29:49 PM	9368	2.81	8594	95.70000	114.700863	120
JU09	Standard	3/29/2018 8:40:36 PM	8784	2.81	10450	95.70000	88.466560	92
JU10	Standard	3/29/2018 8:51:22 PM	9198	2.81	10140	95.70000	95.476874	100
JU11	Standard	3/29/2018 9:02:09 PM	7240	2.81	9230	95.70000	82.530894	86
JU12	Standard	3/29/2018 9:12:55 PM	8490	2.81	10110	95.70000	88.329448	92
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	10076	2.81	10510	95.70000	100.824379	105
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	9028	2.81	10710	95.70000	88.716288	93
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	8506	2.81	10090	95.70000	88.680479	93
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	5541	2.81	5505	95.70000	105.895950	111
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	8368	2.80	9766	95.70000	90.147213	94
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	7093	2.81	6756	95.70000	110.463682	115
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	6436	2.80	8856	95.70000	76.465087	80
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	9315	2.81	8973	95.70000	109.225562	114

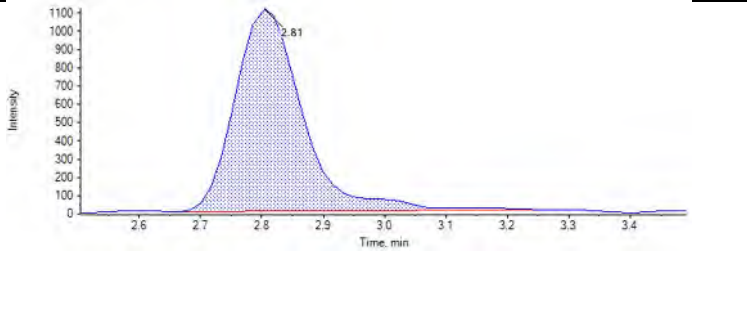
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	9371	2.80	10100	95.70000	97.660483	102

Chromatograms:

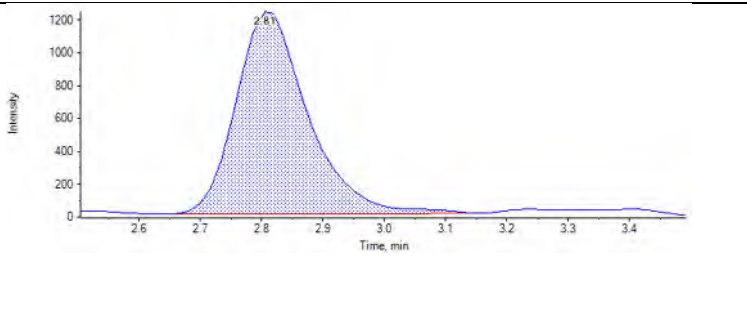


<p>JU07</p> <p>RT (Exp. RT): 2.82 (3.00) min</p> <p>Calculated Conc: 84.883206 ng/L</p> <p>Area: 6607.76290</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 114.700863 ng/L</p> <p>Area: 9368.20055</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 88.466560 ng/L</p> <p>Area: 8783.54751</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 95.476874 ng/L</p> <p>Area: 9197.78392</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 82.530894 ng/L</p> <p>Area: 7239.66726</p> <p>Modified: (False)</p>	

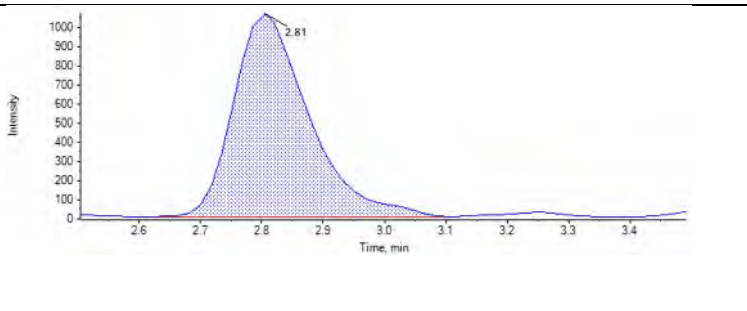
JU12
RT (Exp. RT): 2.81 (3.00) min
Calculated Conc: 88.329448 ng/L
Area: 8489.98584
Modified: (False)



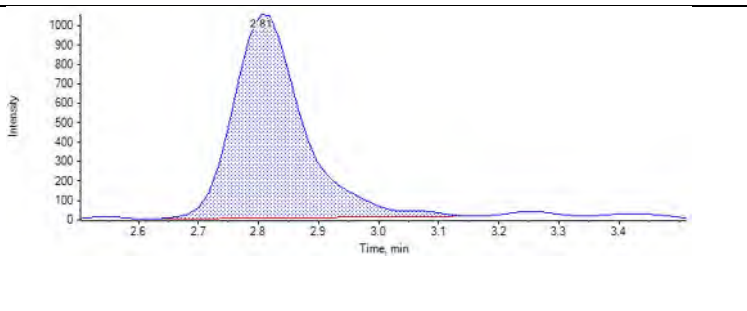
JP83 IB
RT (Exp. RT): 2.81 (3.00) min
Calculated Conc: 100.824379 ng/L
Area: 10075.62828
Modified: (False)



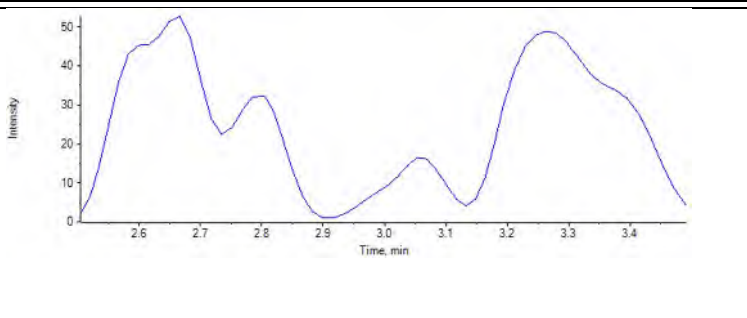
JU13 ICC
RT (Exp. RT): 2.81 (3.00) min
Calculated Conc: 88.716288 ng/L
Area: 9028.28140
Modified: (False)

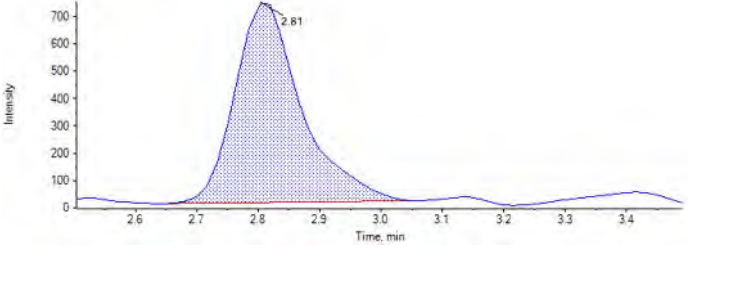
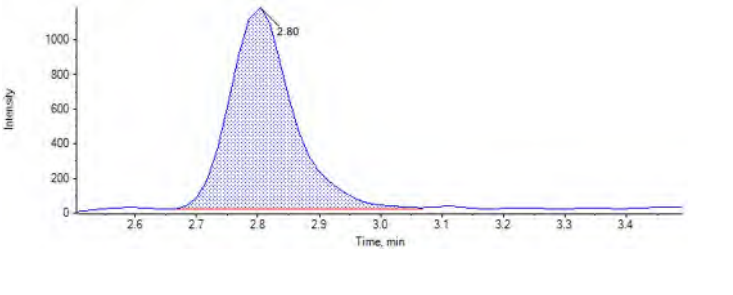
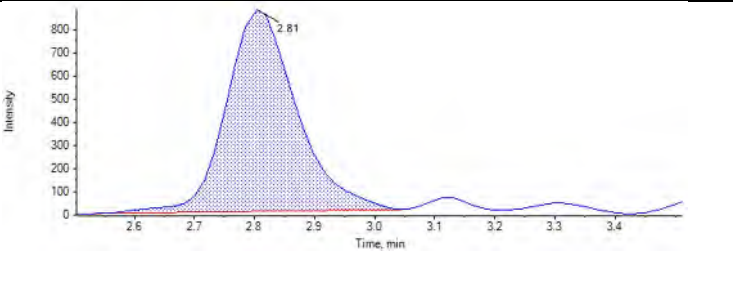
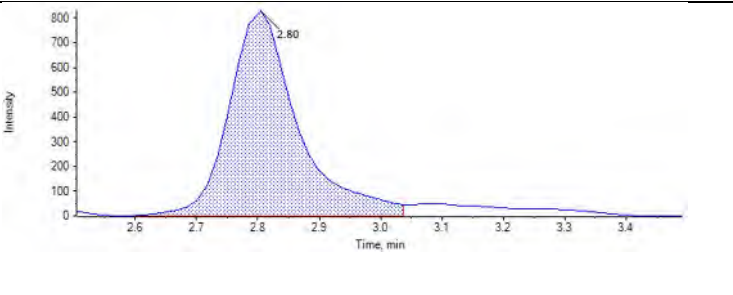
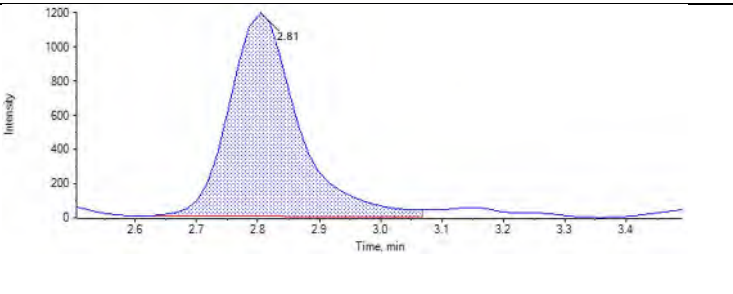


JU38 Branch
RT (Exp. RT): 2.81 (3.00) min
Calculated Conc: 88.680479 ng/L
Area: 8505.88431
Modified: (False)



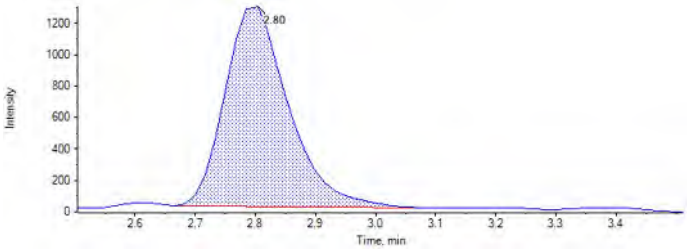
MeOH
RT (Exp. RT): N/A (3.00) min
Calculated Conc: N/A ng/L
Area: N/A
Modified: (True)



<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 105.895950 ng/L</p> <p>Area: 5540.60574</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 90.147213 ng/L</p> <p>Area: 8367.69499</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 110.463682 ng/L</p> <p>Area: 7092.68425</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 2.80 (3.00) min</p> <p>Calculated Conc: 76.465087 ng/L</p> <p>Area: 6435.70979</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 2.81 (3.00) min</p> <p>Calculated Conc: 109.225562 ng/L</p> <p>Area: 9315.18675</p> <p>Modified: (False)</p>	

JU09 CCV

RT (Exp. RT): 2.80 (3.00) min
Calculated Conc: 97.660483 ng/L
Area: 9371.40984
Modified: (False)



Analyte: 13C4-PFBA (217.0 / 172.0)

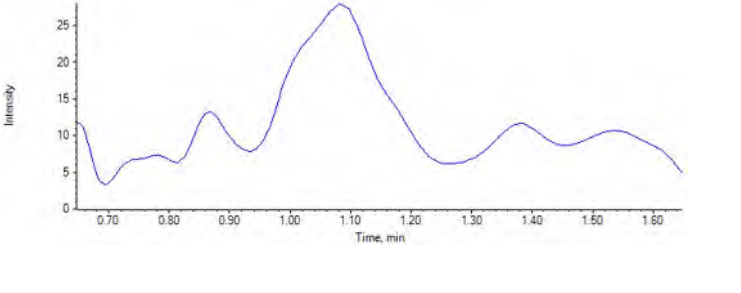
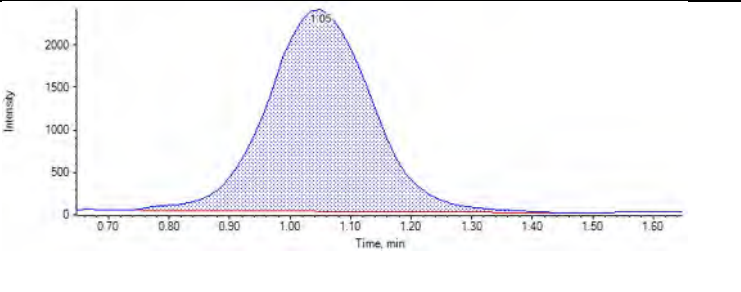
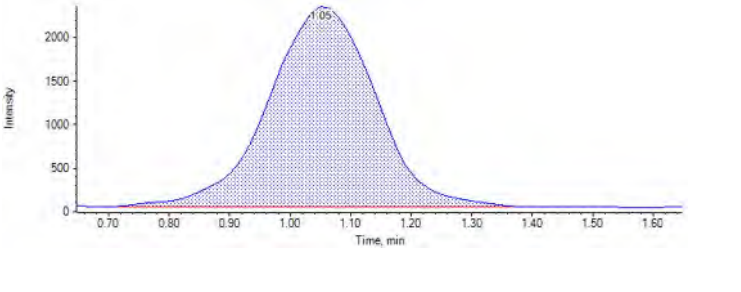
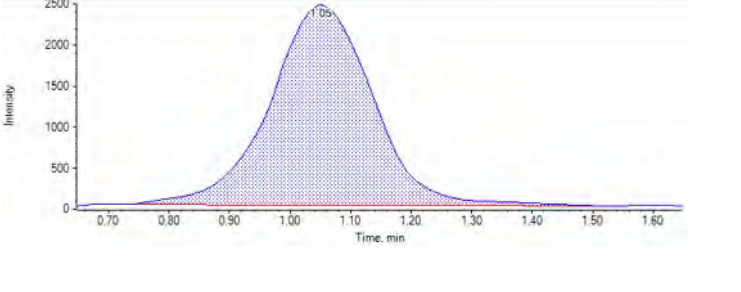
Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

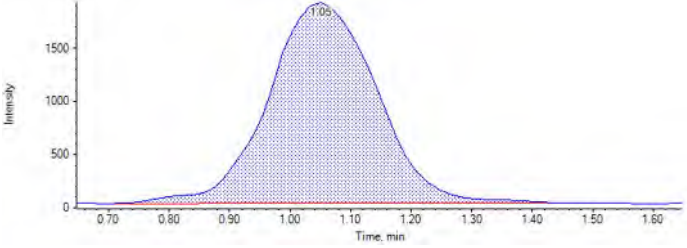
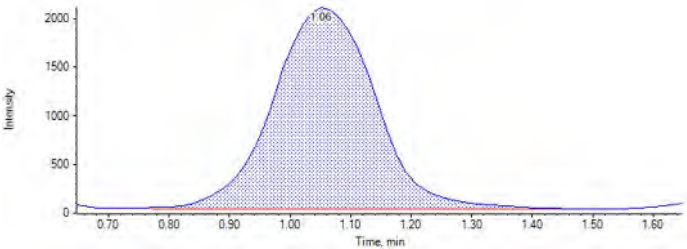
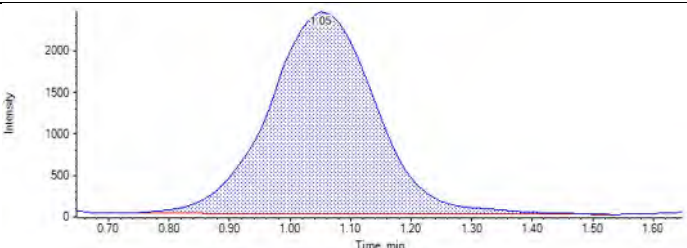
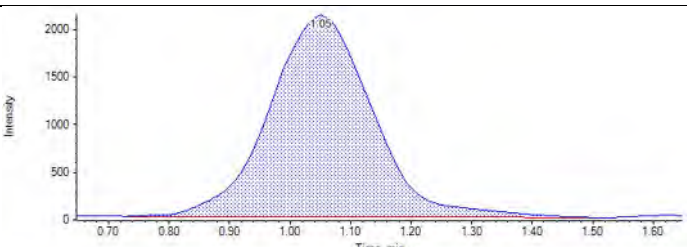
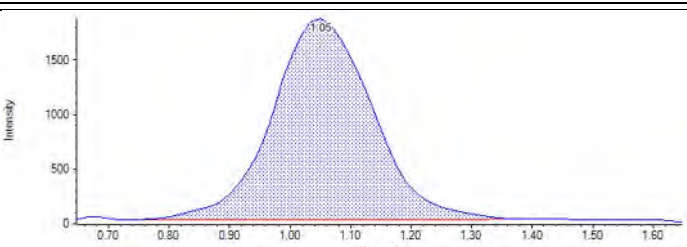
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. ()	Calculated Conc. ()	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	28774	1.05	27720	100.00000	96.548166	97
JU05	Standard	3/29/2018 7:57:30 PM	28470	1.05	30010	100.00000	88.228823	88
JU06	Standard	3/29/2018 8:08:16 PM	28920	1.05	22980	100.00000	117.043450	117
JU07	Standard	3/29/2018 8:19:03 PM	23551	1.05	24680	100.00000	88.750814	89
JU08	Standard	3/29/2018 8:29:49 PM	24387	1.06	22300	100.00000	101.699045	102
JU09	Standard	3/29/2018 8:40:36 PM	29996	1.05	26380	100.00000	105.777079	106
JU10	Standard	3/29/2018 8:51:22 PM	25120	1.05	24160	100.00000	96.712820	97
JU11	Standard	3/29/2018 9:02:09 PM	21285	1.05	19020	100.00000	104.084997	104
JU12	Standard	3/29/2018 9:12:55 PM	30344	1.05	27900	100.00000	101.154806	101
JP83 IB	Quality Control	3/29/2018 9:23:42 PM	30915	1.05	29780	100.00000	96.571328	97
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	27569	1.05	24700	100.00000	103.817612	104
JU38 Branch	Quality Control	3/29/2018 9:45:17 PM	28098	1.06	24470	100.00000	106.795167	107
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Quality Control	3/29/2018 10:06:49 PM	17410	1.05	21440	100.00000	75.521929	76
CQ351LCS-FS(3)	Quality Control	3/29/2018 10:17:36 PM	25714	1.05	25920	100.00000	92.267448	92
J5386-FS(3)	Quality Control	3/29/2018 10:28:22 PM	18062	1.05	18910	100.00000	88.858118	89
J5391-FS(3)	Quality Control	3/29/2018 10:39:08 PM	19750	1.06	22930	100.00000	80.105934	80
J5393-FS(3)	Quality Control	3/29/2018 10:49:54 PM	22706	1.05	24970	100.00000	84.588572	85

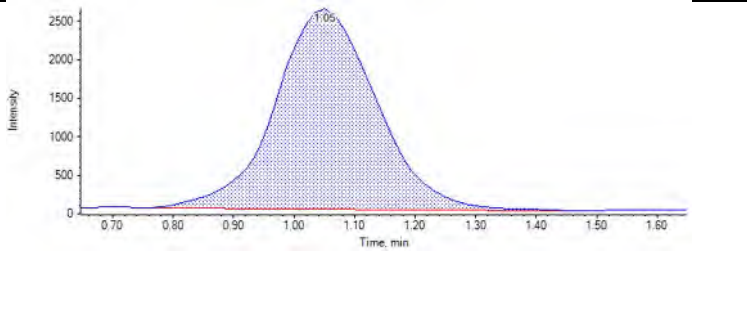
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. ()	Calculated Conc. ()	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	24926	1.05	23160	100.00000	100.111638	100

Chromatograms:

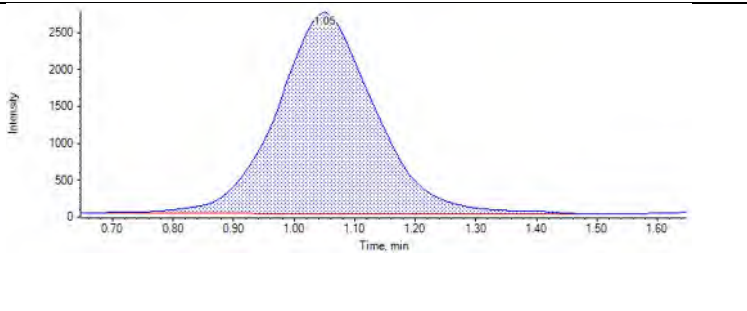
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.15) min</p> <p>Calculated Conc: N/A</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 96.548166</p> <p>Area: 28773.60500</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 88.228823</p> <p>Area: 28469.81334</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 117.043450</p> <p>Area: 28920.35065</p> <p>Modified: (False)</p>	

<p>JU07</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 88.750814</p> <p>Area: 23551.15663</p> <p>Modified: (False)</p>	
<p>JU08</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 101.699045</p> <p>Area: 24387.18965</p> <p>Modified: (False)</p>	
<p>JU09</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 105.777079</p> <p>Area: 29996.01732</p> <p>Modified: (False)</p>	
<p>JU10</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 96.712820</p> <p>Area: 25120.48613</p> <p>Modified: (False)</p>	
<p>JU11</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 104.084997</p> <p>Area: 21284.61219</p> <p>Modified: (False)</p>	

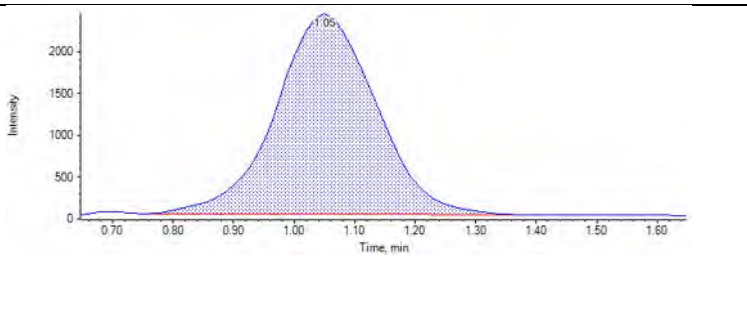
JU12	
RT (Exp. RT):	1.05 (1.15) min
Calculated Conc:	101.154806
Area:	30344.16715
Modified:	(False)



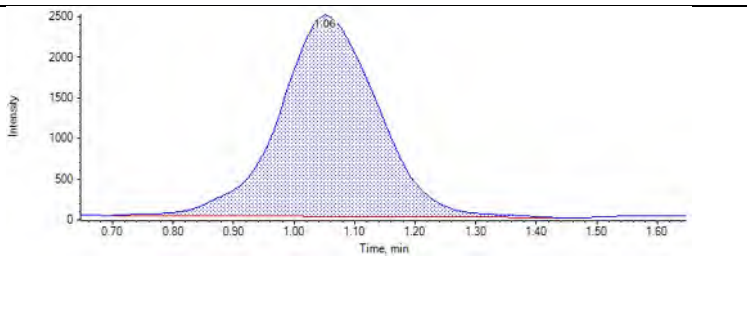
JP83 IB	
RT (Exp. RT):	1.05 (1.15) min
Calculated Conc:	96.571328
Area:	30915.37328
Modified:	(False)



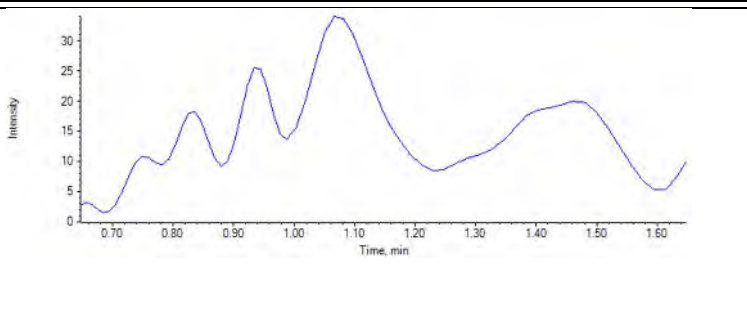
JU13 ICC	
RT (Exp. RT):	1.05 (1.15) min
Calculated Conc:	103.817612
Area:	27568.69624
Modified:	(False)

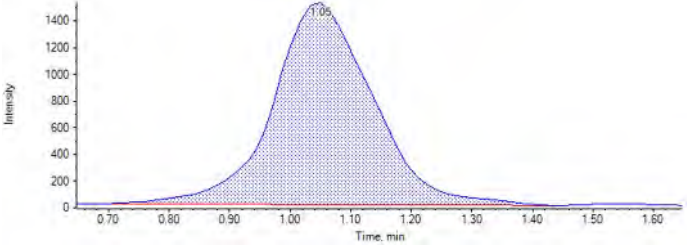
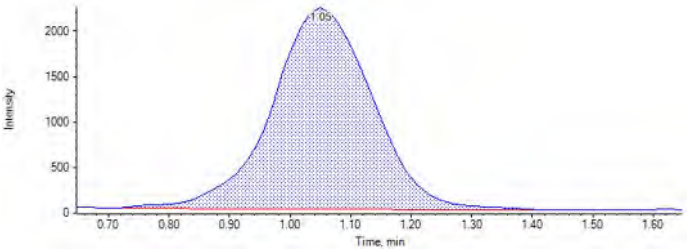
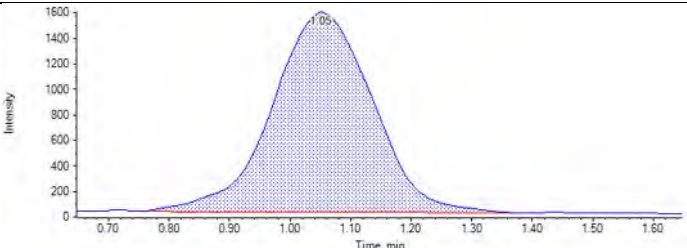
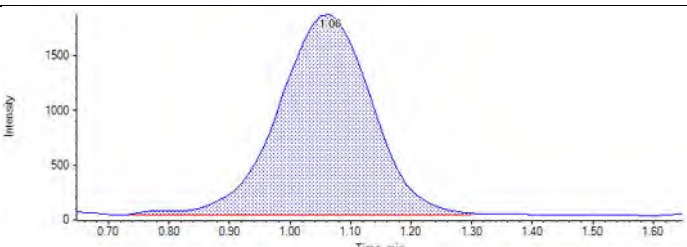
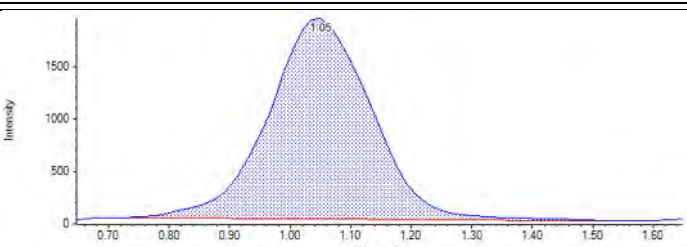


JU38 Branch	
RT (Exp. RT):	1.06 (1.15) min
Calculated Conc:	106.795167
Area:	28098.39202
Modified:	(False)



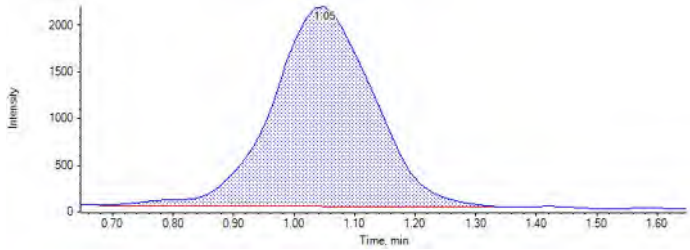
MeOH	
RT (Exp. RT):	N/A (1.15) min
Calculated Conc:	N/A
Area:	N/A
Modified:	(True)



<p>CQ350PB-FS(3)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 75.521929</p> <p>Area: 17410.06086</p> <p>Modified: (False)</p>	
<p>CQ351LCS-FS(3)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 92.267448</p> <p>Area: 25714.18625</p> <p>Modified: (False)</p>	
<p>J5386-FS(3)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 88.858118</p> <p>Area: 18062.37908</p> <p>Modified: (False)</p>	
<p>J5391-FS(3)</p> <p>RT (Exp. RT): 1.06 (1.15) min</p> <p>Calculated Conc: 80.105934</p> <p>Area: 19749.62620</p> <p>Modified: (False)</p>	
<p>J5393-FS(3)</p> <p>RT (Exp. RT): 1.05 (1.15) min</p> <p>Calculated Conc: 84.588572</p> <p>Area: 22705.72717</p> <p>Modified: (False)</p>	

JU09 CCV

RT (Exp. RT): 1.05 (1.15) min
Calculated Conc: 100.111638
Area: 24926.34898
Modified: (False)

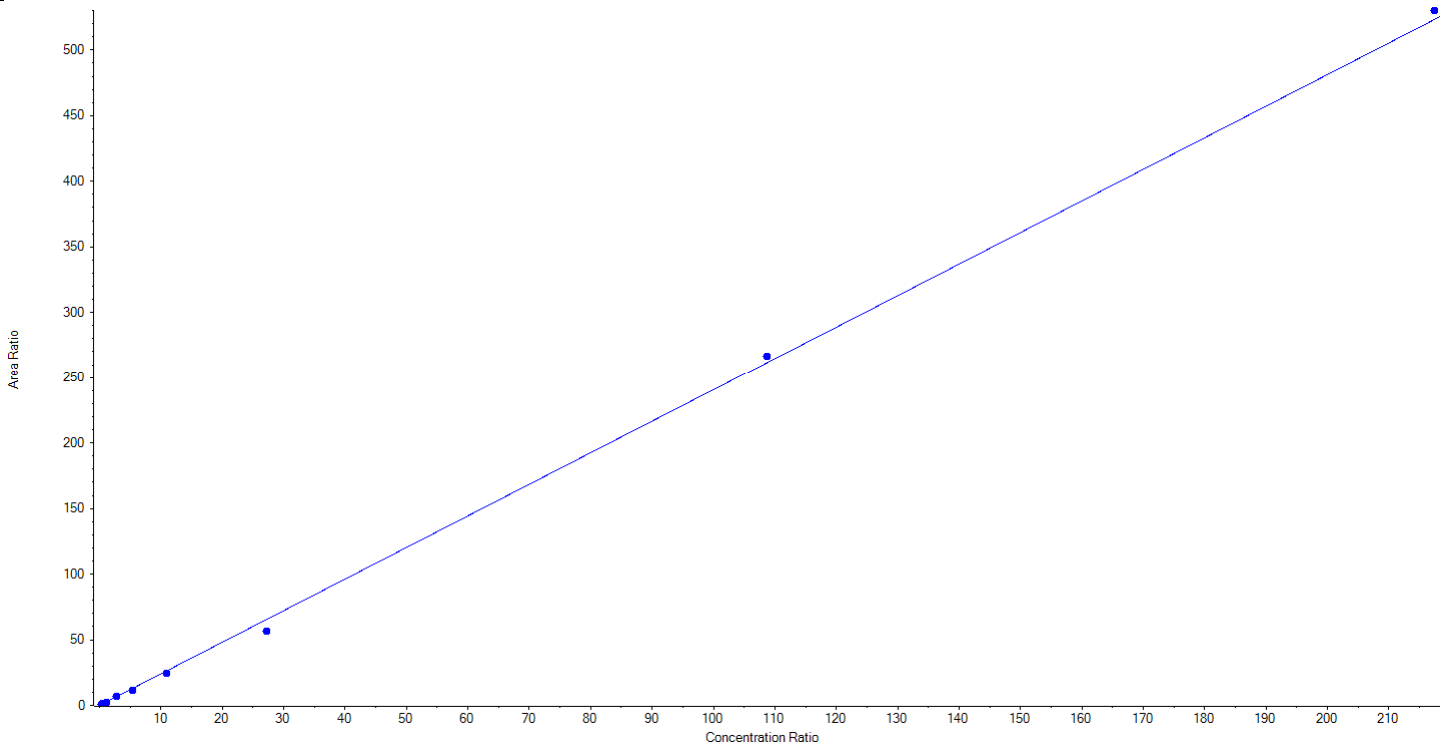


Analyte Name: PFBS_1
Internal Standard: 13C3-PFBS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 2.40631 x + -0.00311$ (r = 0.99905) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.546087	117.0	N/A	N/A
50.50000	1 of 1	57.819667	114.5	N/A	N/A
101.00000	1 of 1	97.437836	96.5	N/A	N/A
252.50000	1 of 1	254.440891	100.8	N/A	N/A
505.00000	1 of 1	438.237188	86.8	N/A	N/A
1010.00000	1 of 1	954.534400	94.5	N/A	N/A
2525.00000	1 of 1	2193.471695	86.9	N/A	N/A
10100.00000	1 of 1	10280.713973	101.8	N/A	N/A
20200.00000	1 of 1	20463.048262	101.3	N/A	N/A

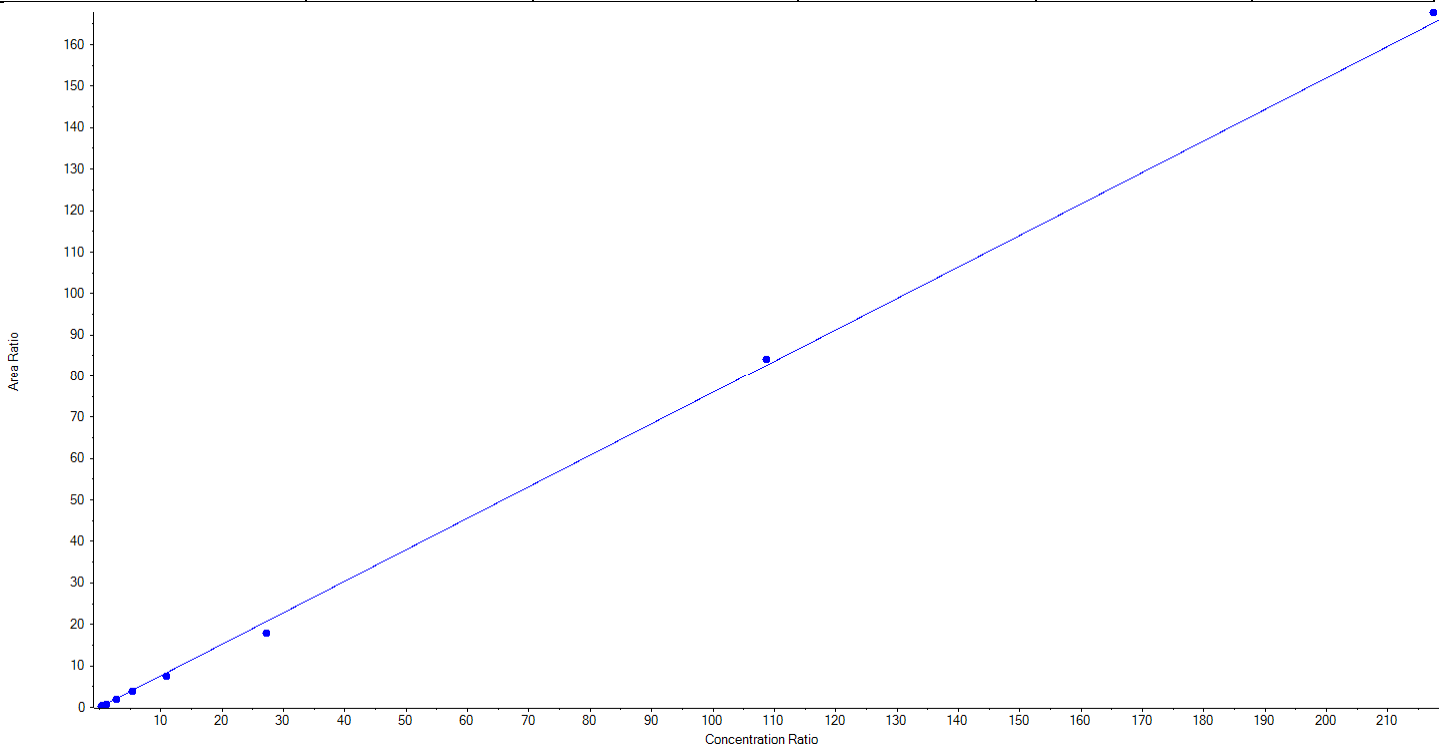


Analyte Name: PFBS_2
Internal Standard: 13C3-PFBS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.75976 x + 0.03059$ ($r = 0.99895$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.342453	116.2	N/A	N/A
50.50000	1 of 1	62.969644	124.7	N/A	N/A
101.00000	1 of 1	91.992005	91.1	N/A	N/A
252.50000	1 of 1	246.764500	97.7	N/A	N/A
505.00000	1 of 1	454.561605	90.0	N/A	N/A
1010.00000	1 of 1	911.657403	90.3	N/A	N/A
2525.00000	1 of 1	2190.868679	86.8	N/A	N/A
10100.00000	1 of 1	10274.963832	101.7	N/A	N/A
20200.00000	1 of 1	20506.129879	101.5	N/A	N/A

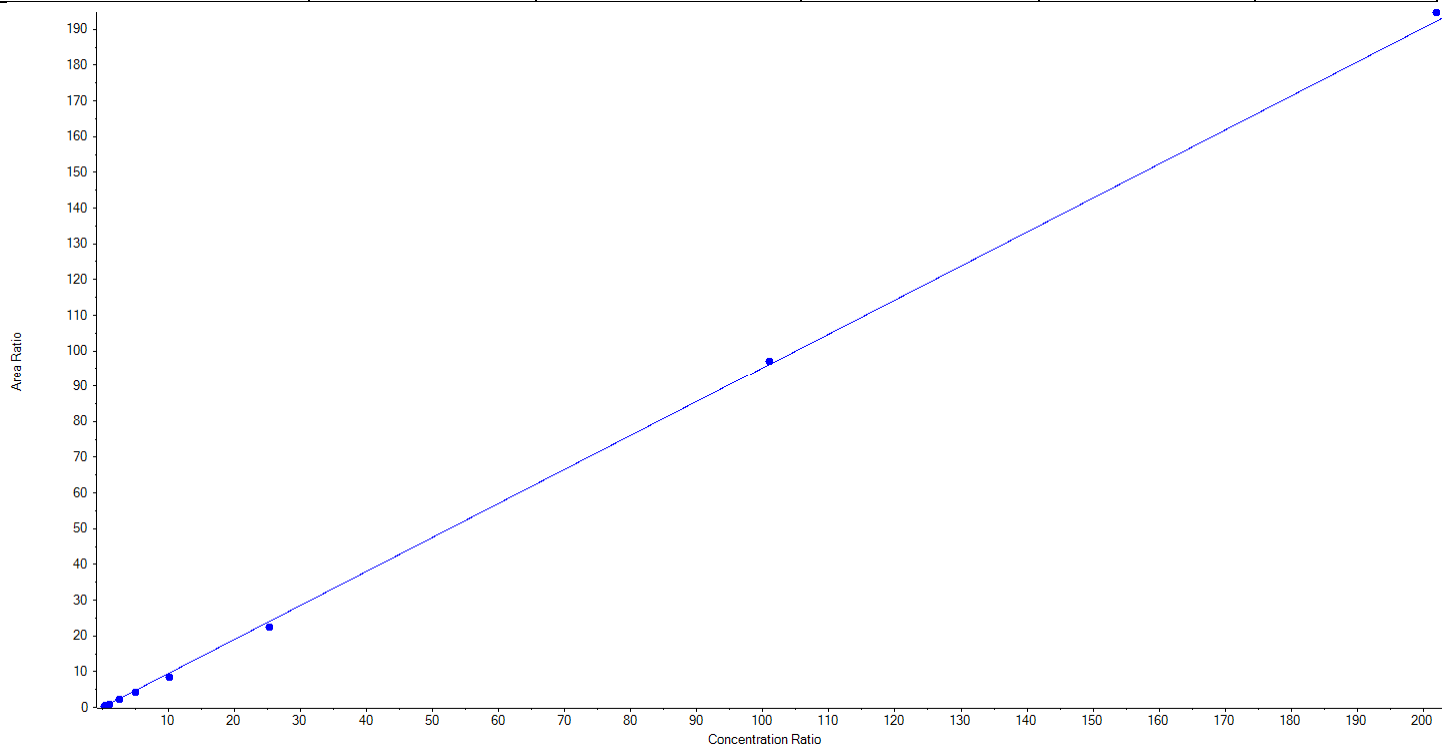


Analyte Name: PFHxA_1
Internal Standard: 13C5-PFHxA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.95213x + -0.01810$ ($r = 0.99940$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	32.108208	127.2	N/A	N/A
50.50000	1 of 1	56.216074	111.3	N/A	N/A
101.00000	1 of 1	100.928808	99.9	N/A	N/A
252.50000	1 of 1	223.227908	88.4	N/A	N/A
505.00000	1 of 1	449.860662	89.1	N/A	N/A
1010.00000	1 of 1	893.148377	88.4	N/A	N/A
2525.00000	1 of 1	2358.310431	93.4	N/A	N/A
10100.00000	1 of 1	10203.682302	101.0	N/A	N/A
20200.00000	1 of 1	20451.767229	101.3	N/A	N/A

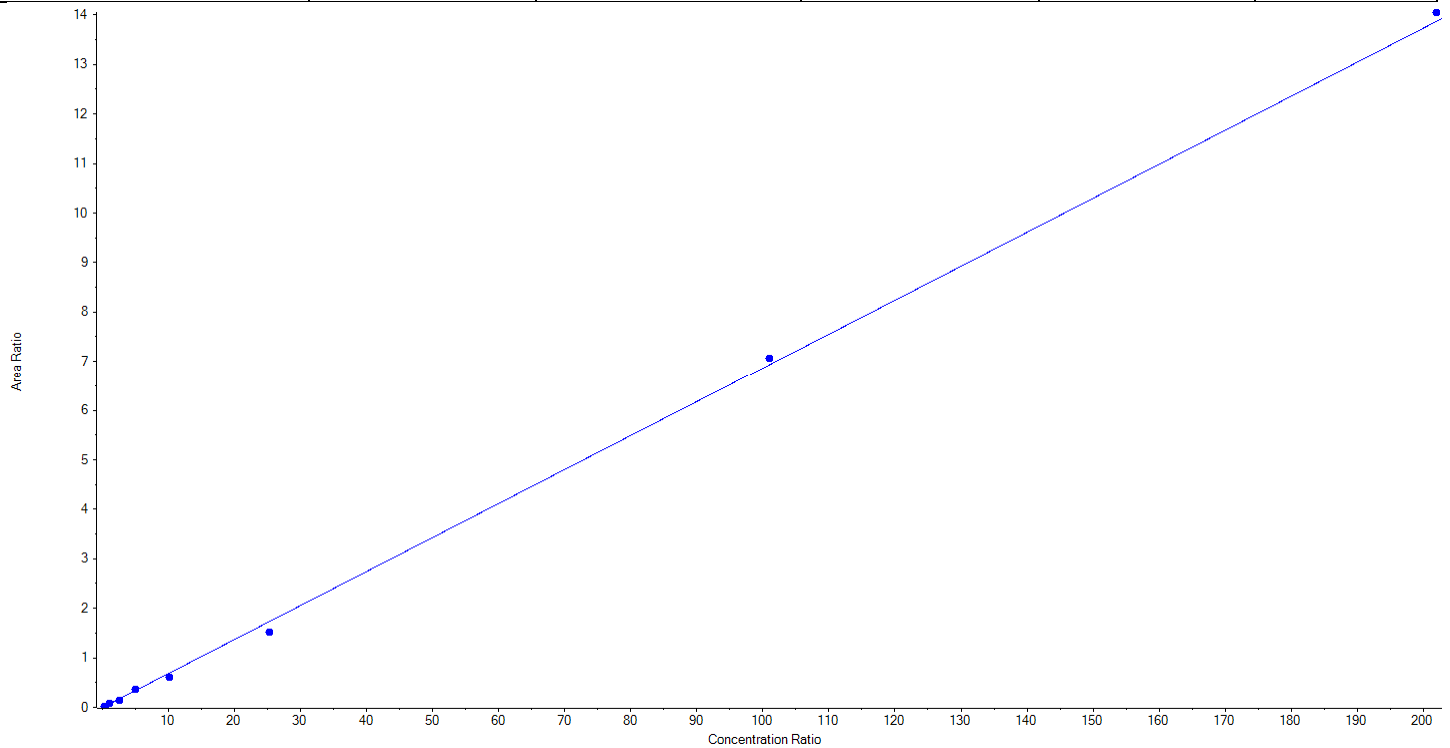


Analyte Name: PFHxA_2
Internal Standard: 13C5-PFHxA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.06868x + -0.00304$ ($r = 0.99887$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	30.730900	121.7	N/A	N/A
50.50000	1 of 1	47.189149	93.4	N/A	N/A
101.00000	1 of 1	118.260833	117.1	N/A	N/A
252.50000	1 of 1	211.893503	83.9	N/A	N/A
505.00000	1 of 1	535.846621	106.1	N/A	N/A
1010.00000	1 of 1	883.060455	87.4	N/A	N/A
2525.00000	1 of 1	2202.720742	87.2	N/A	N/A
10100.00000	1 of 1	10279.586155	101.8	N/A	N/A
20200.00000	1 of 1	20459.961643	101.3	N/A	N/A

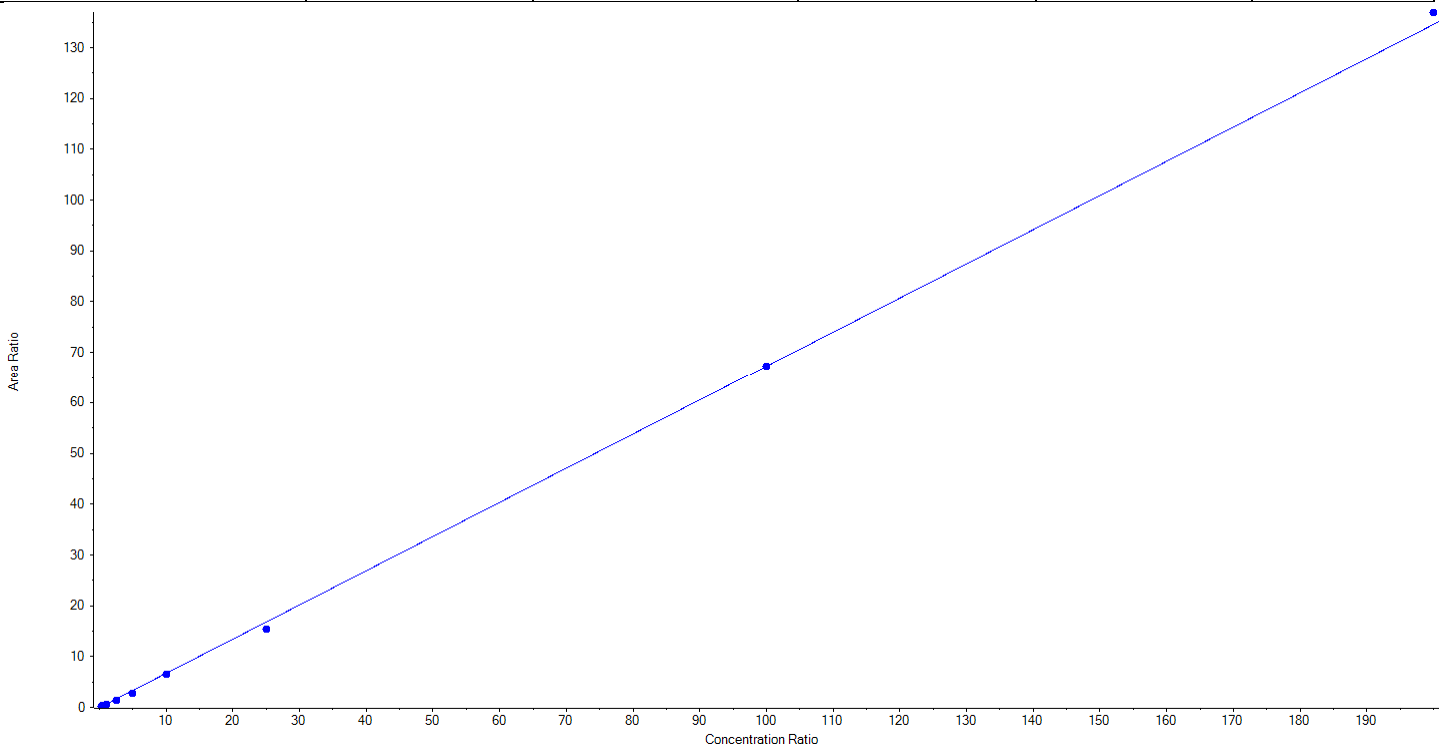


Analyte Name: PFHpA_1
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.67294 x + -0.02658$ ($r = 0.99931$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.197633	128.8	N/A	N/A
50.00000	1 of 1	54.253804	108.5	N/A	N/A
100.00000	1 of 1	102.007600	102.0	N/A	N/A
250.00000	1 of 1	220.992703	88.4	N/A	N/A
500.00000	1 of 1	408.761957	81.8	N/A	N/A
1000.00000	1 of 1	970.744144	97.1	N/A	N/A
2500.00000	1 of 1	2295.050119	91.8	N/A	N/A
10000.00000	1 of 1	9992.681399	99.9	N/A	N/A
20000.00000	1 of 1	20348.310641	101.7	N/A	N/A

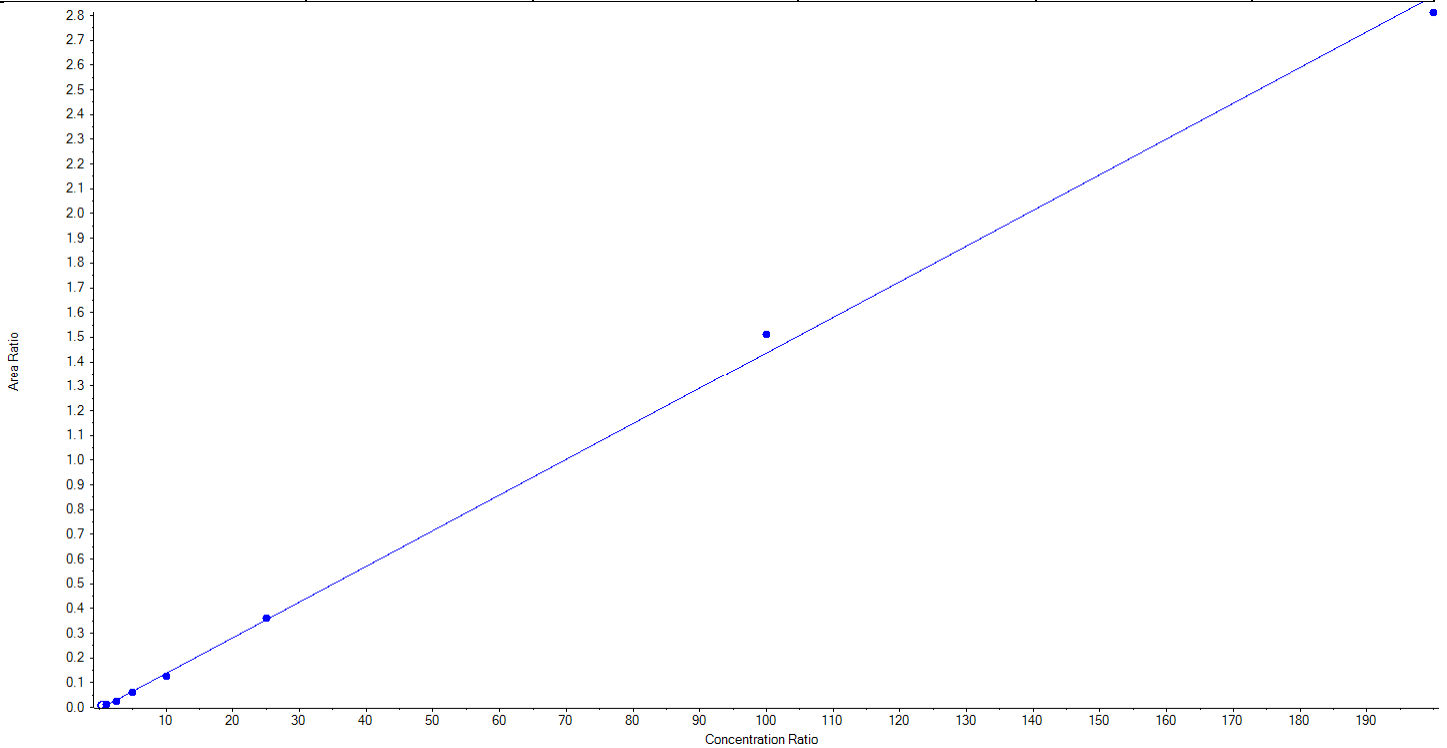


Analyte Name: PFHpA_2
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.01443x + -0.00701$ ($r = 0.99914$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	120.742095	120.7	N/A	N/A
250.00000	1 of 1	223.686864	89.5	N/A	N/A
500.00000	1 of 1	457.567789	91.5	N/A	N/A
1000.00000	1 of 1	931.504230	93.2	N/A	N/A
2500.00000	1 of 1	2555.199660	102.2	N/A	N/A
10000.00000	1 of 1	10520.939088	105.2	N/A	N/A
20000.00000	1 of 1	19540.360274	97.7	N/A	N/A

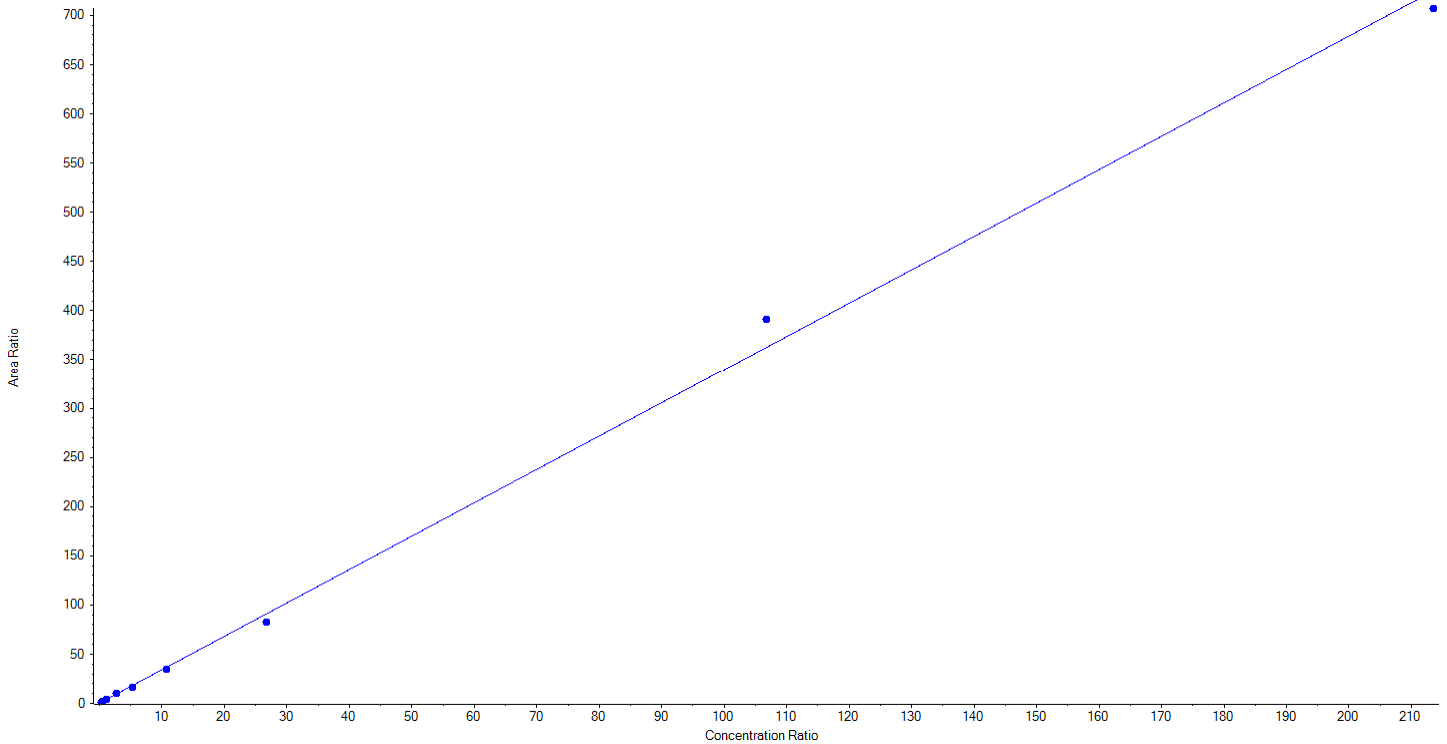


Analyte Name: PFHxS_1
Internal Standard: 13C3-PFHxS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 3.39369x + 0.26882$ ($r = 0.99839$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	26.892868	106.5	N/A	N/A
50.50000	1 of 1	47.936865	94.9	N/A	N/A
101.00000	1 of 1	108.161715	107.1	N/A	N/A
252.50000	1 of 1	282.324036	111.8	N/A	N/A
505.00000	1 of 1	448.094441	88.7	N/A	N/A
1010.00000	1 of 1	951.068384	94.2	N/A	N/A
2525.00000	1 of 1	2306.288510	91.3	N/A	N/A
10100.00000	1 of 1	10898.757134	107.9	N/A	N/A
20200.00000	1 of 1	19699.726048	97.5	N/A	N/A

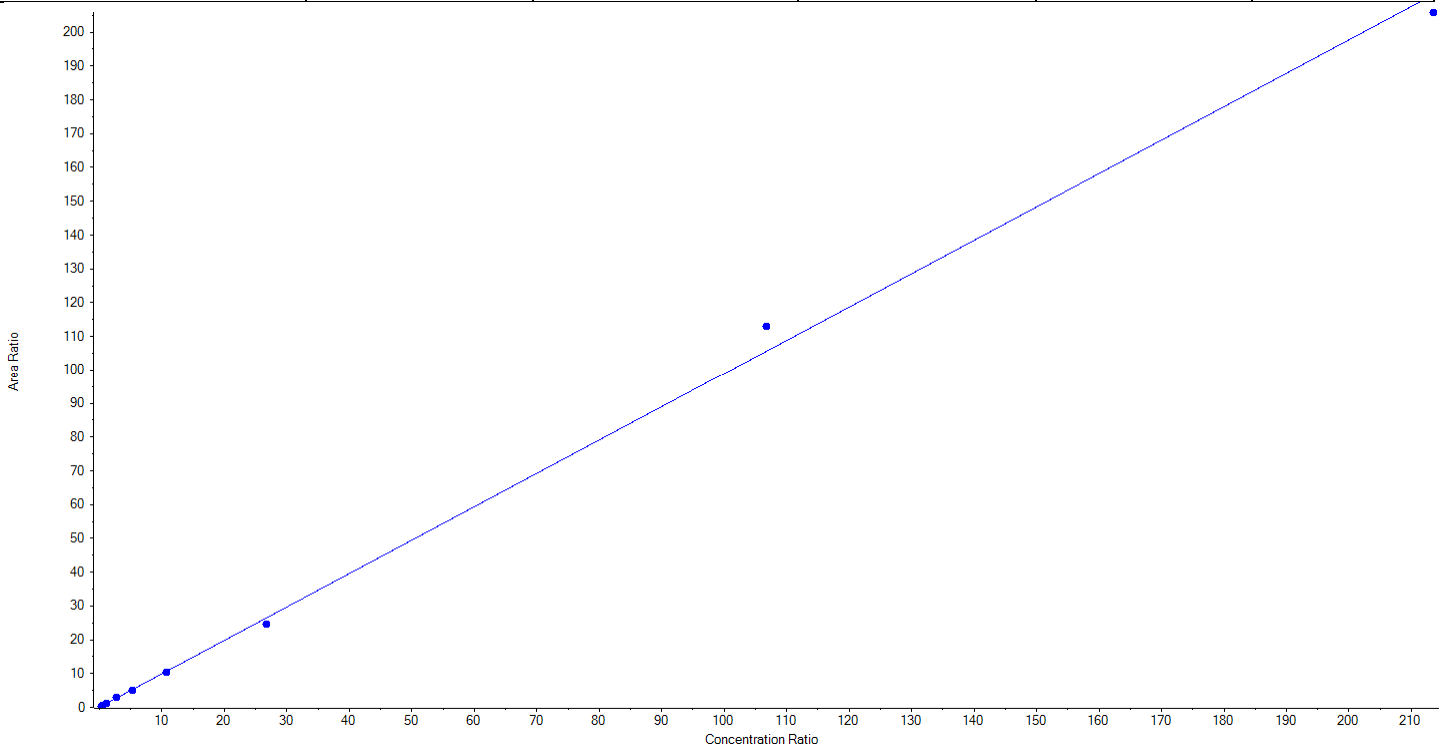


Analyte Name: PFHxS_2
Internal Standard: 13C3-PFHxS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.98845x + 0.05739$ ($r = 0.99882$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.397565	88.7	N/A	N/A
50.50000	1 of 1	58.270442	115.4	N/A	N/A
101.00000	1 of 1	101.841220	100.8	N/A	N/A
252.50000	1 of 1	269.047901	106.6	N/A	N/A
505.00000	1 of 1	466.069235	92.3	N/A	N/A
1010.00000	1 of 1	994.137369	98.4	N/A	N/A
2525.00000	1 of 1	2355.552213	93.3	N/A	N/A
10100.00000	1 of 1	10809.826960	107.0	N/A	N/A
20200.00000	1 of 1	19692.107095	97.5	N/A	N/A

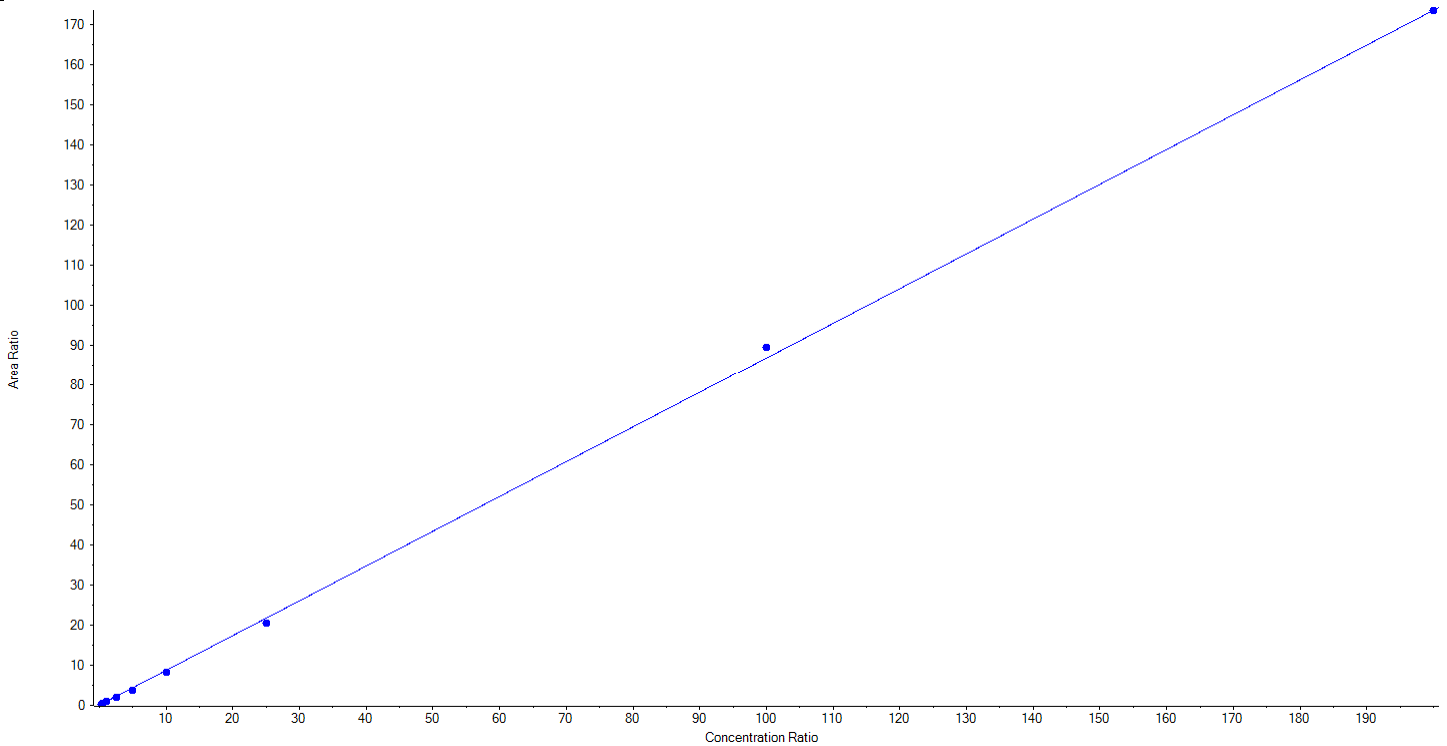


Analyte Name: PFOA_1
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.86795x + 0.06748$ ($r = 0.99934$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.124194	120.5	N/A	N/A
50.00000	1 of 1	59.354635	118.7	N/A	N/A
100.00000	1 of 1	100.374593	100.4	N/A	N/A
250.00000	1 of 1	214.159880	85.7	N/A	N/A
500.00000	1 of 1	414.748101	83.0	N/A	N/A
1000.00000	1 of 1	945.329057	94.5	N/A	N/A
2500.00000	1 of 1	2354.234208	94.2	N/A	N/A
10000.00000	1 of 1	10314.027698	103.1	N/A	N/A
20000.00000	1 of 1	19992.647633	100.0	N/A	N/A

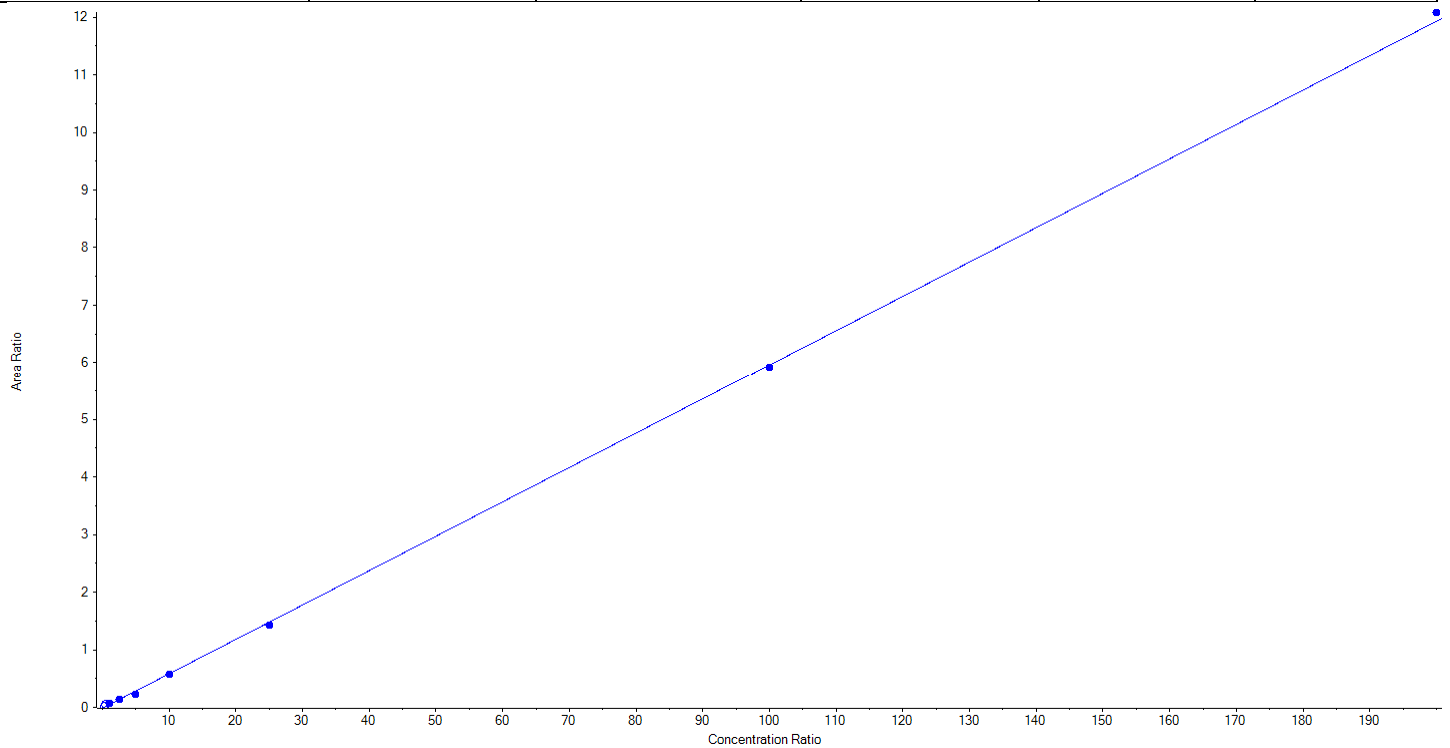


Analyte Name: PFOA_2
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.05972 x + -0.01364$ ($r = 0.99945$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	125.427924	125.4	N/A	N/A
250.00000	1 of 1	248.569421	99.4	N/A	N/A
500.00000	1 of 1	398.190136	79.6	N/A	N/A
1000.00000	1 of 1	987.151776	98.7	N/A	N/A
2500.00000	1 of 1	2404.994229	96.2	N/A	N/A
10000.00000	1 of 1	9932.600203	99.3	N/A	N/A
20000.00000	1 of 1	20253.066310	101.3	N/A	N/A

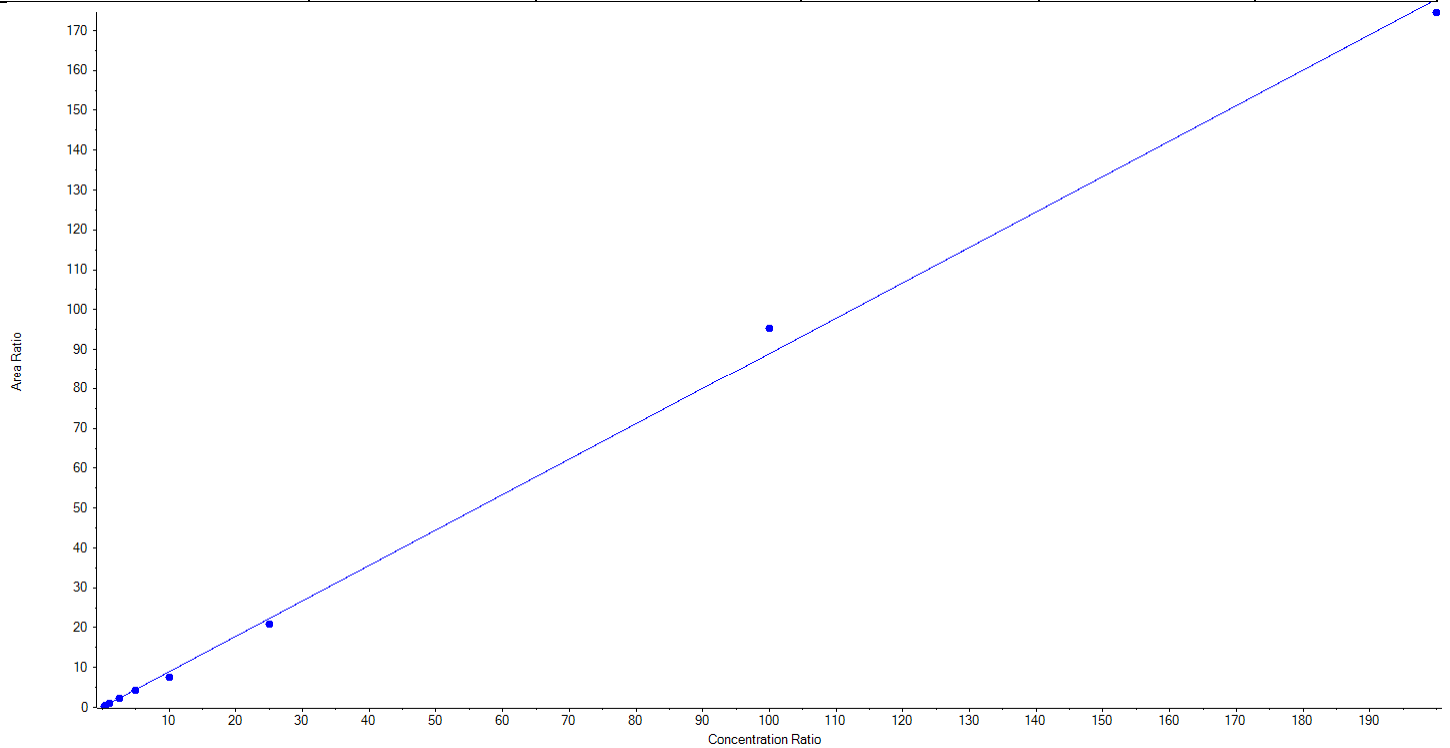


Analyte Name: PFNA_1
Internal Standard: 13C9-PFNA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.88897x + 0.05190$ ($r = 0.99865$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	31.135941	124.5	N/A	N/A
50.00000	1 of 1	51.831255	103.7	N/A	N/A
100.00000	1 of 1	95.441458	95.4	N/A	N/A
250.00000	1 of 1	246.912526	98.8	N/A	N/A
500.00000	1 of 1	464.101080	92.8	N/A	N/A
1000.00000	1 of 1	854.249474	85.4	N/A	N/A
2500.00000	1 of 1	2355.097628	94.2	N/A	N/A
10000.00000	1 of 1	10701.407079	107.0	N/A	N/A
20000.00000	1 of 1	19624.823558	98.1	N/A	N/A

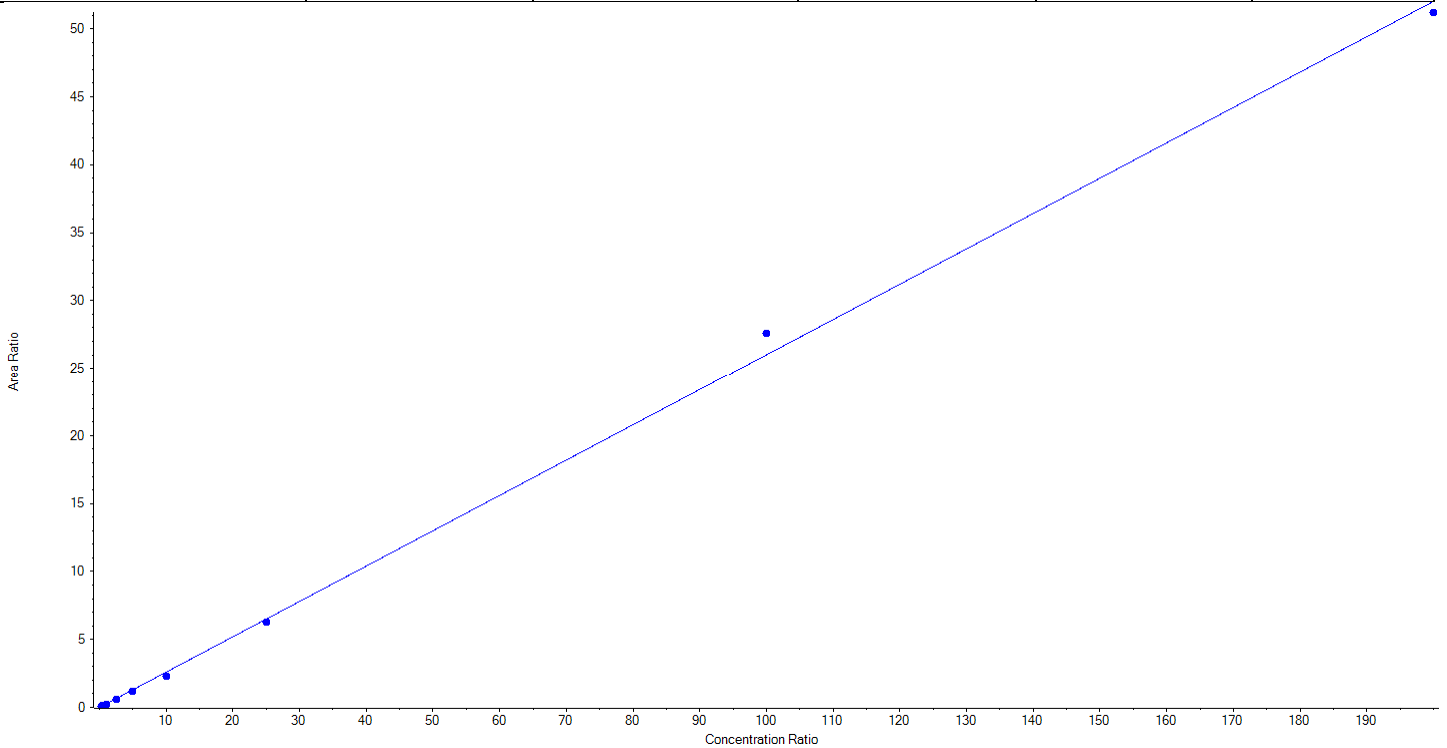


Analyte Name: PFNA_2
Internal Standard: 13C9-PFNA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.26013x + -0.00578$ ($r = 0.99897$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.853910	123.4	N/A	N/A
50.00000	1 of 1	54.312522	108.6	N/A	N/A
100.00000	1 of 1	95.663390	95.7	N/A	N/A
250.00000	1 of 1	233.271399	93.3	N/A	N/A
500.00000	1 of 1	458.661296	91.7	N/A	N/A
1000.00000	1 of 1	868.059048	86.8	N/A	N/A
2500.00000	1 of 1	2400.942236	96.0	N/A	N/A
10000.00000	1 of 1	10599.066368	106.0	N/A	N/A
20000.00000	1 of 1	19684.169831	98.4	N/A	N/A

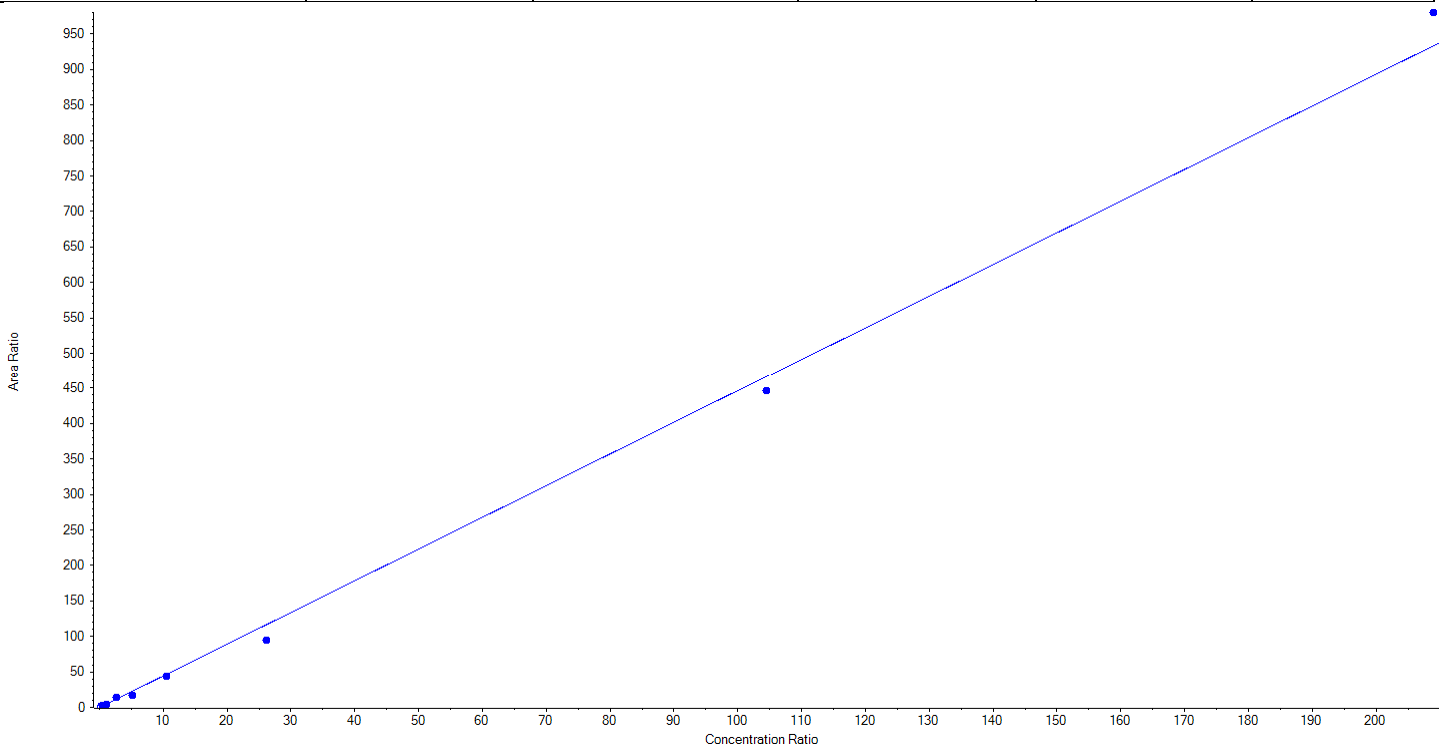


Analyte Name: PFOS_1
Internal Standard: 13C8-PFOS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 4.46854 x + -0.32806$ (r = 0.99701) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	61.259255	122.5	N/A	N/A
100.00000	1 of 1	106.671885	106.7	N/A	N/A
250.00000	1 of 1	294.562971	117.8	N/A	N/A
500.00000	1 of 1	373.378352	74.7	N/A	N/A
1000.00000	1 of 1	958.421303	95.8	N/A	N/A
2500.00000	1 of 1	2047.108968	81.9	N/A	N/A
10000.00000	1 of 1	9557.854024	95.6	N/A	N/A
20000.00000	1 of 1	21000.743243	105.0	N/A	N/A

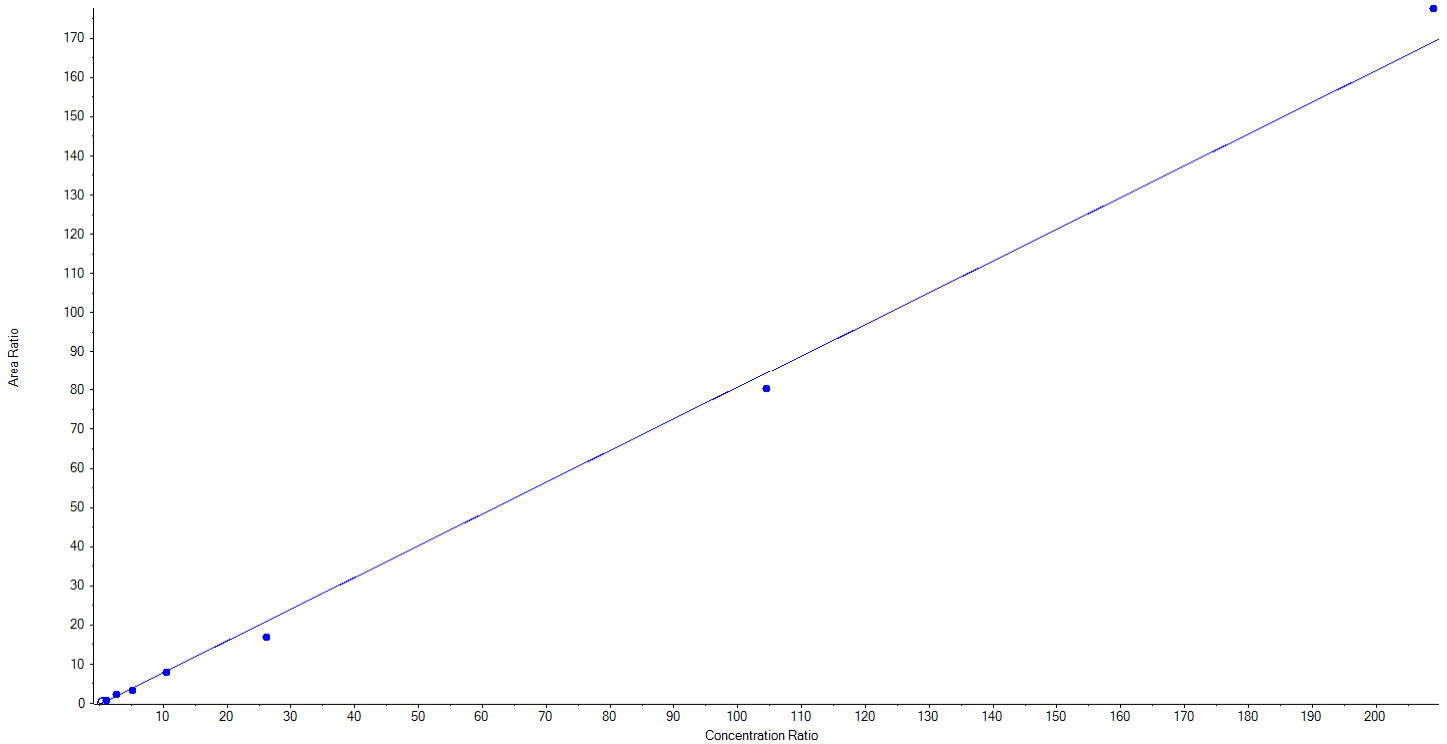


Analyte Name: PFOS_2
Internal Standard: 13C8-PFOS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.81016x + -0.25109$ ($r = 0.99702$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	117.551175	117.6	N/A	N/A
250.00000	1 of 1	295.943528	118.4	N/A	N/A
500.00000	1 of 1	437.015734	87.4	N/A	N/A
1000.00000	1 of 1	958.233277	95.8	N/A	N/A
2500.00000	1 of 1	2015.638374	80.6	N/A	N/A
10000.00000	1 of 1	9518.262901	95.2	N/A	N/A
20000.00000	1 of 1	21007.355010	105.0	N/A	N/A

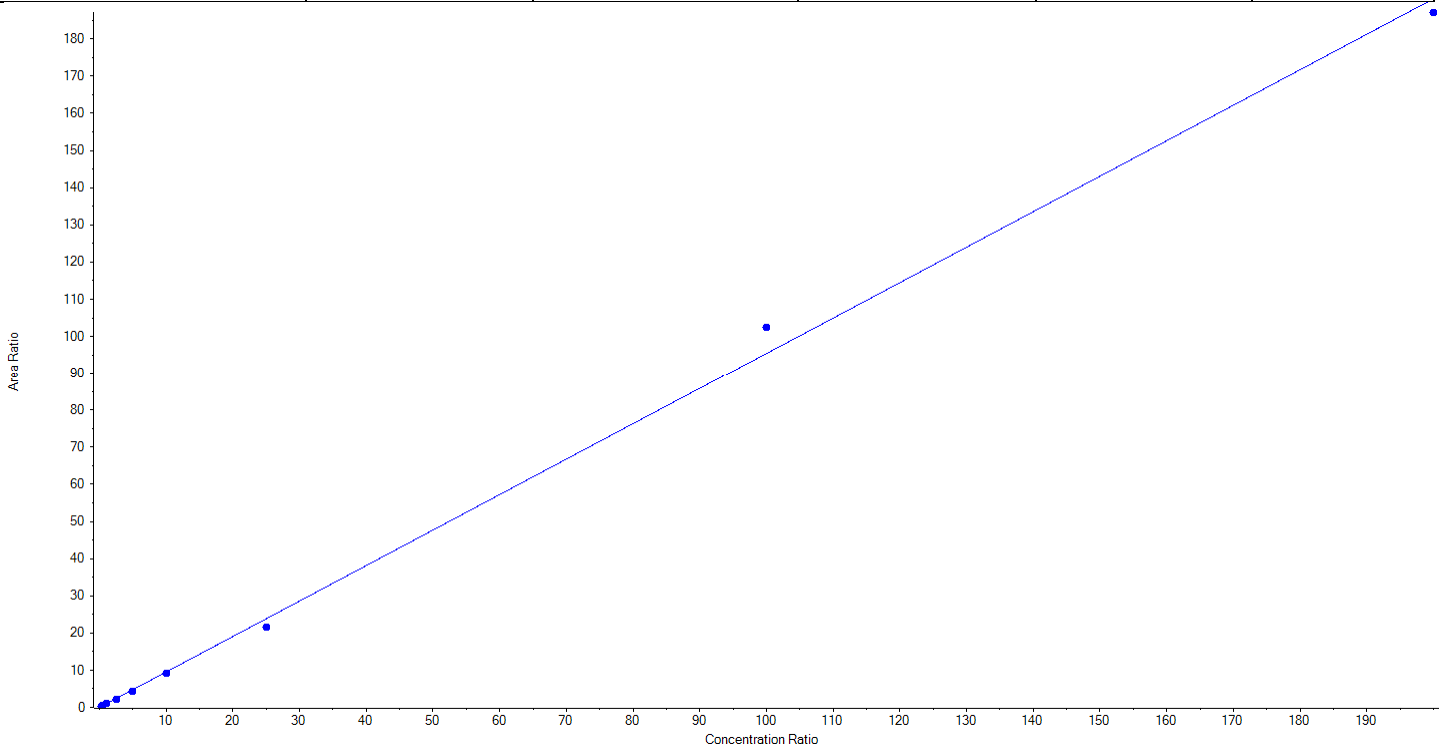


Analyte Name: PFDA_1
Internal Standard: 13C6-PFDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.95404 x + -0.01354$ ($r = 0.99858$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	28.040609	112.2	N/A	N/A
50.00000	1 of 1	56.820399	113.6	N/A	N/A
100.00000	1 of 1	100.432158	100.4	N/A	N/A
250.00000	1 of 1	236.632413	94.7	N/A	N/A
500.00000	1 of 1	440.166212	88.0	N/A	N/A
1000.00000	1 of 1	949.920008	95.0	N/A	N/A
2500.00000	1 of 1	2267.160024	90.7	N/A	N/A
10000.00000	1 of 1	10734.171405	107.3	N/A	N/A
20000.00000	1 of 1	19611.656773	98.1	N/A	N/A

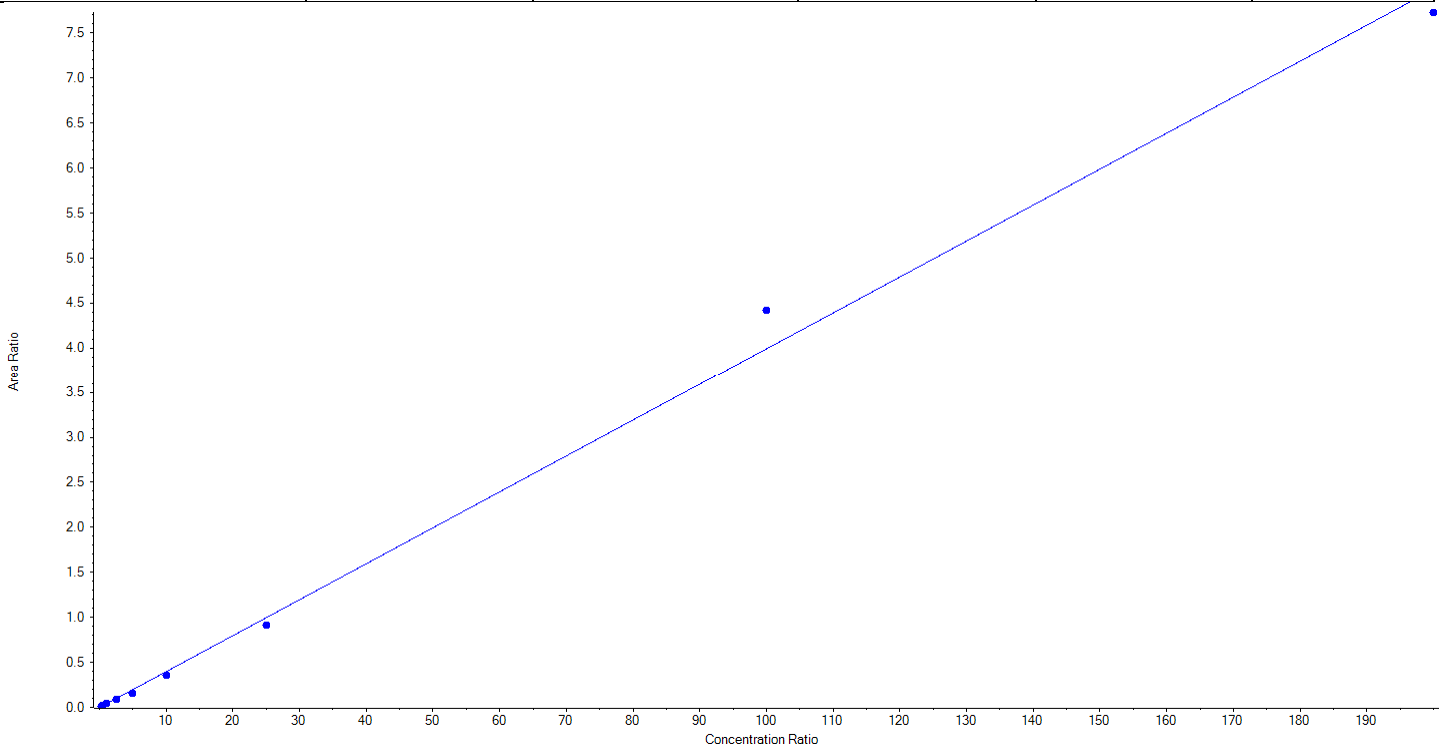


Analyte Name: PFDA_2
Internal Standard: 13C6-PFDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.03994x + -0.00220$ ($r = 0.99711$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	29.579582	118.3	N/A	N/A
50.00000	1 of 1	51.481084	103.0	N/A	N/A
100.00000	1 of 1	119.405501	119.4	N/A	N/A
250.00000	1 of 1	230.976769	92.4	N/A	N/A
500.00000	1 of 1	393.053118	78.6	N/A	N/A
1000.00000	1 of 1	894.428545	89.4	N/A	N/A
2500.00000	1 of 1	2285.723319	91.4	N/A	N/A
10000.00000	1 of 1	11067.824617	110.7	N/A	N/A
20000.00000	1 of 1	19352.527464	96.8	N/A	N/A

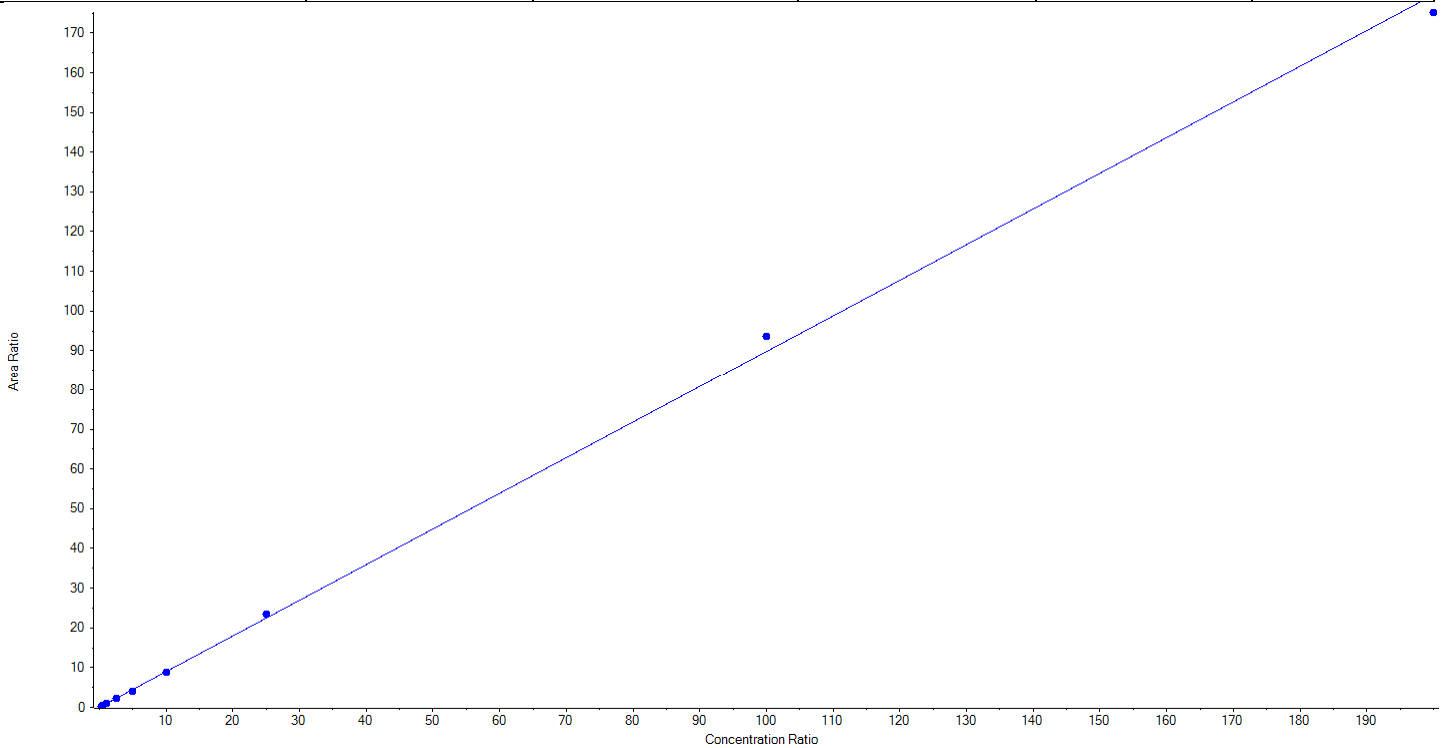


Analyte Name: PFUnA_1
Internal Standard: 13C7-PFUnA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.89775x + 0.02798$ ($r = 0.99934$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	27.809396	111.2	N/A	N/A
50.00000	1 of 1	46.031071	92.1	N/A	N/A
100.00000	1 of 1	105.355956	105.4	N/A	N/A
250.00000	1 of 1	238.674628	95.5	N/A	N/A
500.00000	1 of 1	450.845153	90.2	N/A	N/A
1000.00000	1 of 1	988.413322	98.8	N/A	N/A
2500.00000	1 of 1	2623.811311	105.0	N/A	N/A
10000.00000	1 of 1	10438.270677	104.4	N/A	N/A
20000.00000	1 of 1	19505.788484	97.5	N/A	N/A

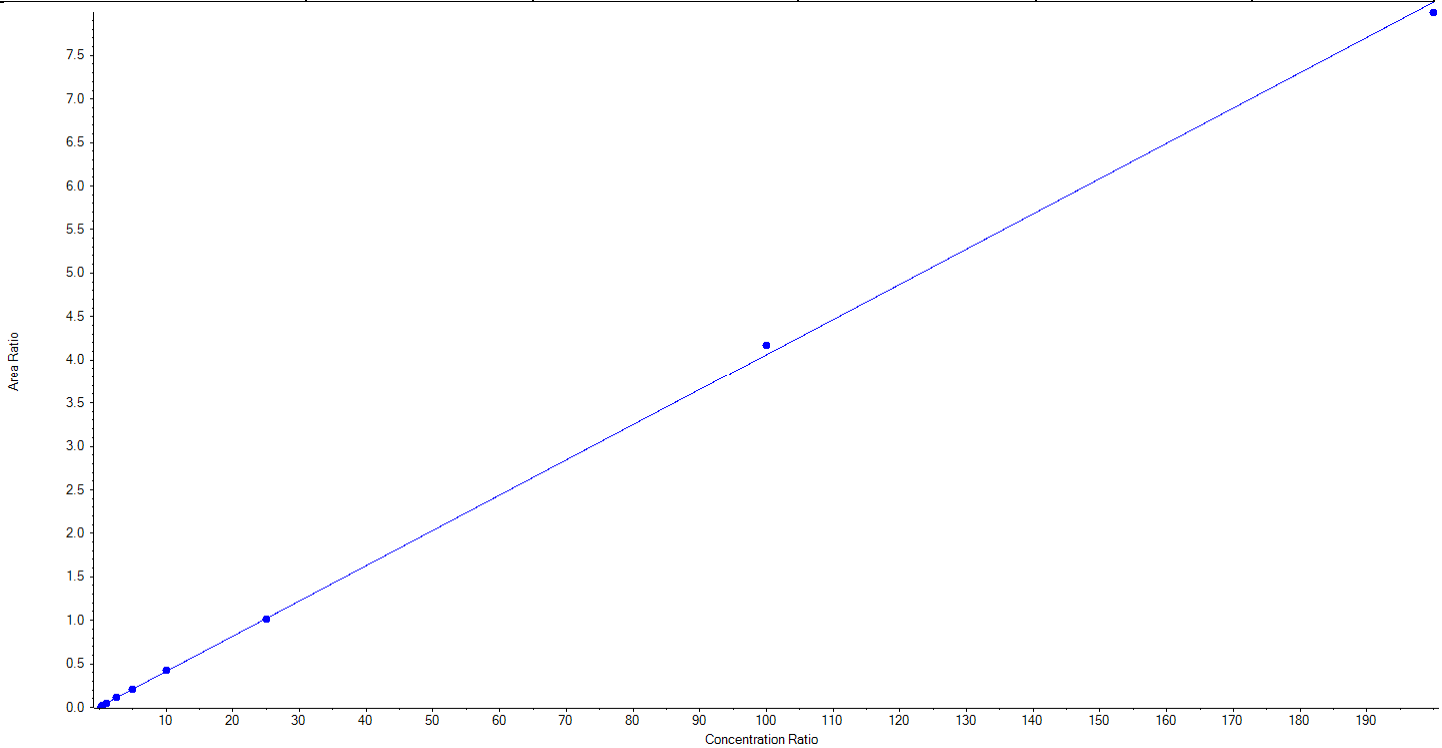


Analyte Name: PFUnA_2
Internal Standard: 13C7-PFUnA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04052x + 0.00764$ ($r = 0.99975$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	23.494341	94.0	N/A	N/A
50.00000	1 of 1	50.191532	100.4	N/A	N/A
100.00000	1 of 1	94.982408	95.0	N/A	N/A
250.00000	1 of 1	273.739324	109.5	N/A	N/A
500.00000	1 of 1	485.919754	97.2	N/A	N/A
1000.00000	1 of 1	1036.888823	103.7	N/A	N/A
2500.00000	1 of 1	2473.998299	99.0	N/A	N/A
10000.00000	1 of 1	10279.948544	102.8	N/A	N/A
20000.00000	1 of 1	19705.836976	98.5	N/A	N/A

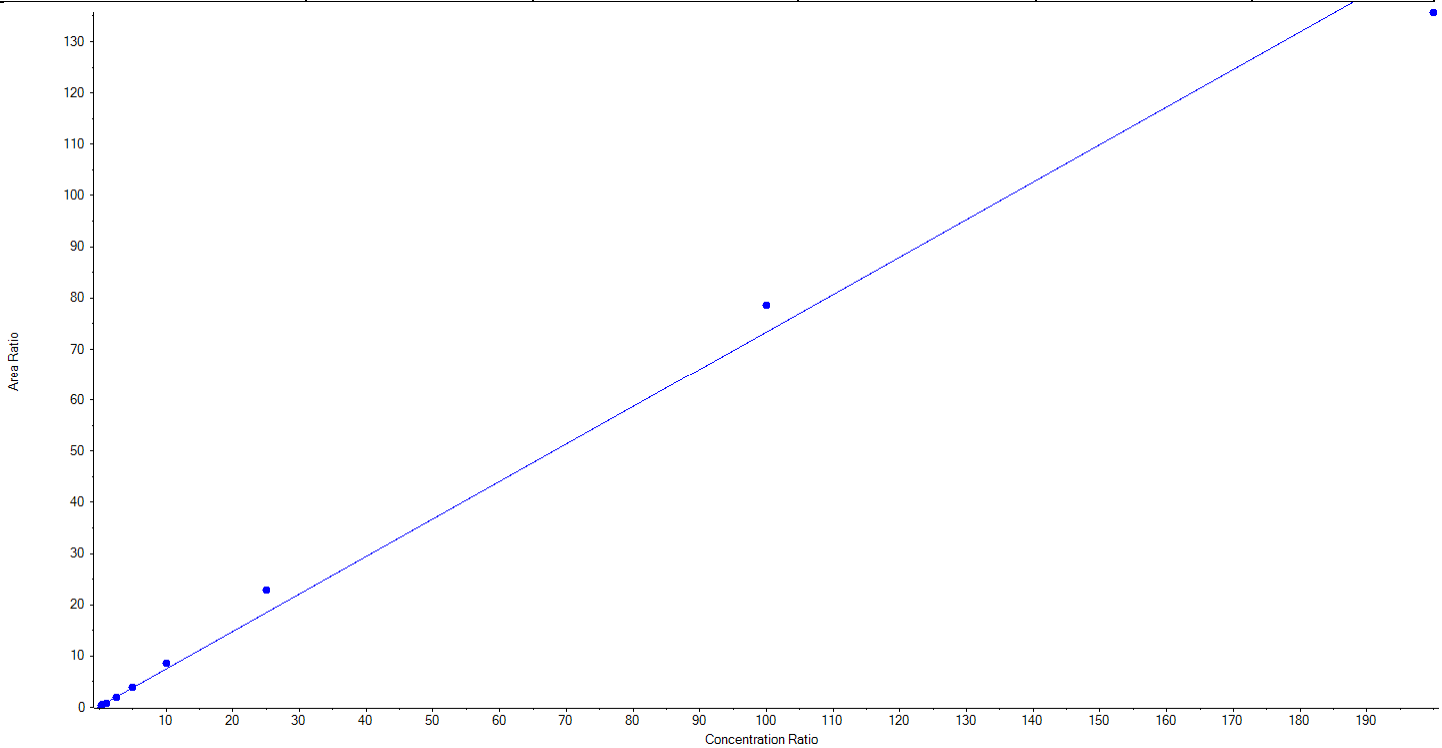


Analyte Name: PFDaA_1
Internal Standard: 13C2-PFDaA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.73180x + 0.16805$ ($r = 0.99494$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	18.585863	74.3	N/A	N/A
50.00000	1 of 1	43.934838	87.9	N/A	N/A
100.00000	1 of 1	96.867204	96.9	N/A	N/A
250.00000	1 of 1	241.211483	96.5	N/A	N/A
500.00000	1 of 1	522.164732	104.4	N/A	N/A
1000.00000	1 of 1	1157.206023	115.7	N/A	N/A
2500.00000	1 of 1	3113.816575	124.6	N/A	N/A
10000.00000	1 of 1	10714.559444	107.2	N/A	N/A
20000.00000	1 of 1	18516.653838	92.6	N/A	N/A

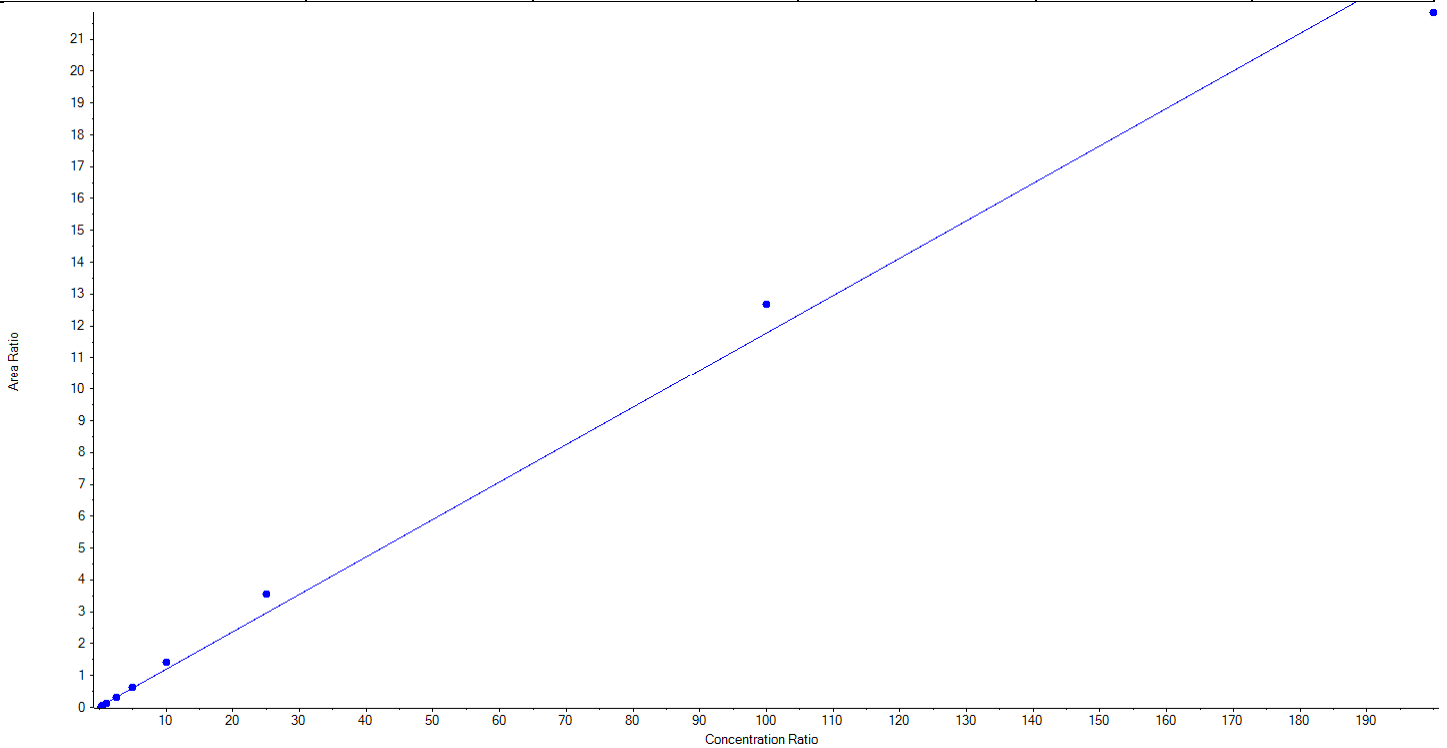


Analyte Name: PFDaA_2
Internal Standard: 13C2-PFDaA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.11755 x + 0.02201$ ($r = 0.99555$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.789022	83.2	N/A	N/A
50.00000	1 of 1	41.751139	83.5	N/A	N/A
100.00000	1 of 1	94.252859	94.3	N/A	N/A
250.00000	1 of 1	238.773328	95.5	N/A	N/A
500.00000	1 of 1	526.139502	105.2	N/A	N/A
1000.00000	1 of 1	1178.790809	117.9	N/A	N/A
2500.00000	1 of 1	3000.505564	120.0	N/A	N/A
10000.00000	1 of 1	10766.450030	107.7	N/A	N/A
20000.00000	1 of 1	18557.547746	92.8	N/A	N/A

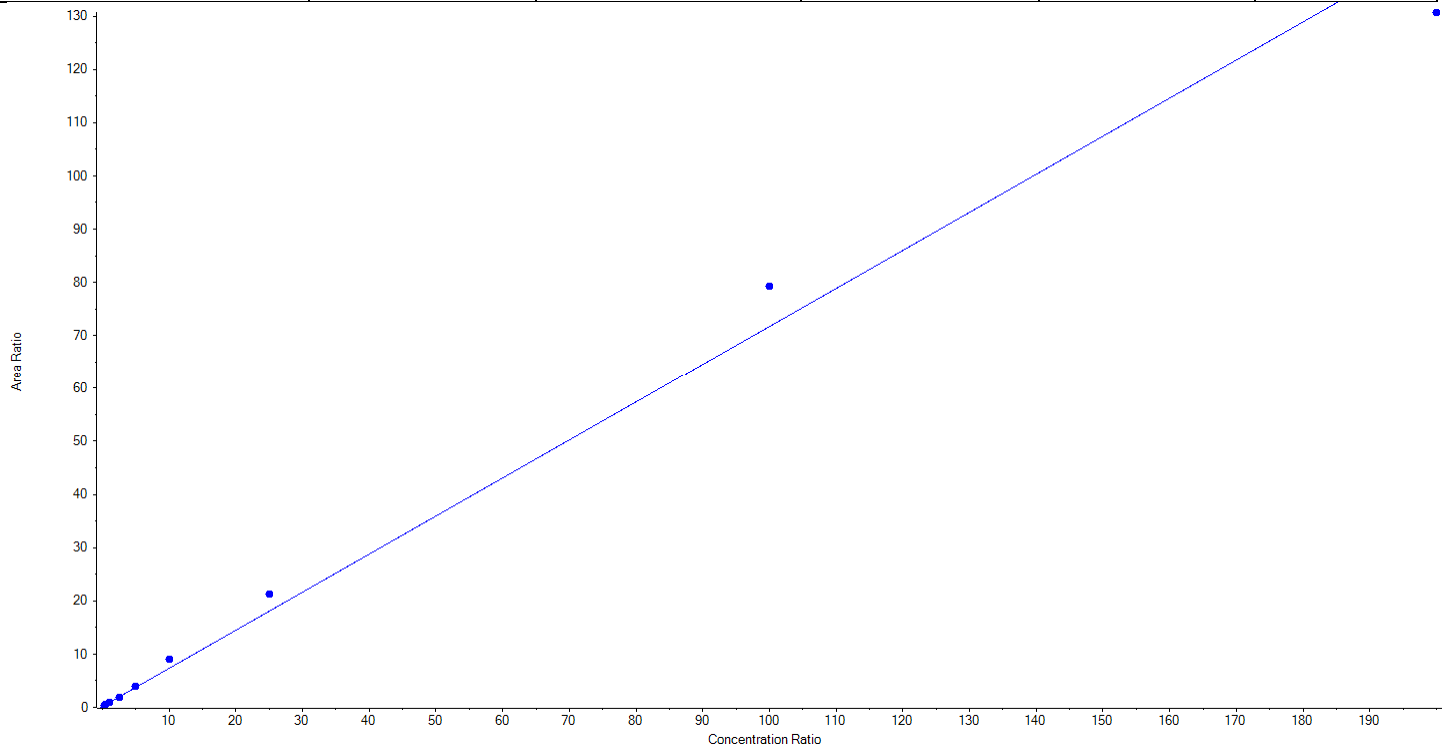


Analyte Name: PFTTrDA_1
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.71512x + 0.18881$ (r = 0.99396) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	18.037092	72.2	N/A	N/A
50.00000	1 of 1	41.435891	82.9	N/A	N/A
100.00000	1 of 1	98.499120	98.5	N/A	N/A
250.00000	1 of 1	245.482933	98.2	N/A	N/A
500.00000	1 of 1	526.942491	105.4	N/A	N/A
1000.00000	1 of 1	1228.445359	122.8	N/A	N/A
2500.00000	1 of 1	2954.091521	118.2	N/A	N/A
10000.00000	1 of 1	11066.106802	110.7	N/A	N/A
20000.00000	1 of 1	18245.958790	91.2	N/A	N/A

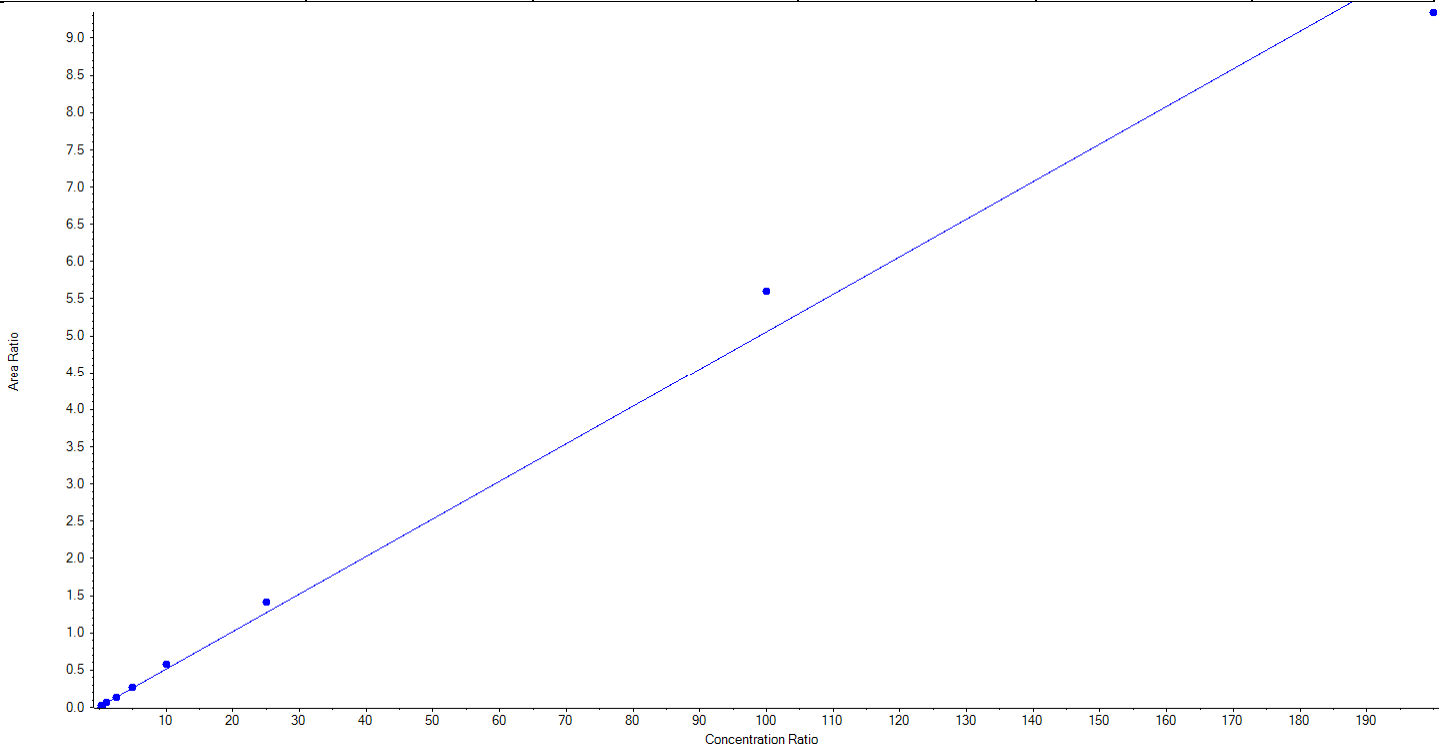


Analyte Name: PFTTrDA_2
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.05046 x + 0.00925$ (r = 0.99572) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	24.482066	97.9	N/A	N/A
50.00000	1 of 1	35.219009	70.4	N/A	N/A
100.00000	1 of 1	103.876978	103.9	N/A	N/A
250.00000	1 of 1	244.481018	97.8	N/A	N/A
500.00000	1 of 1	506.816096	101.4	N/A	N/A
1000.00000	1 of 1	1135.695566	113.6	N/A	N/A
2500.00000	1 of 1	2792.612745	111.7	N/A	N/A
10000.00000	1 of 1	11083.593179	110.8	N/A	N/A
20000.00000	1 of 1	18498.223344	92.5	N/A	N/A

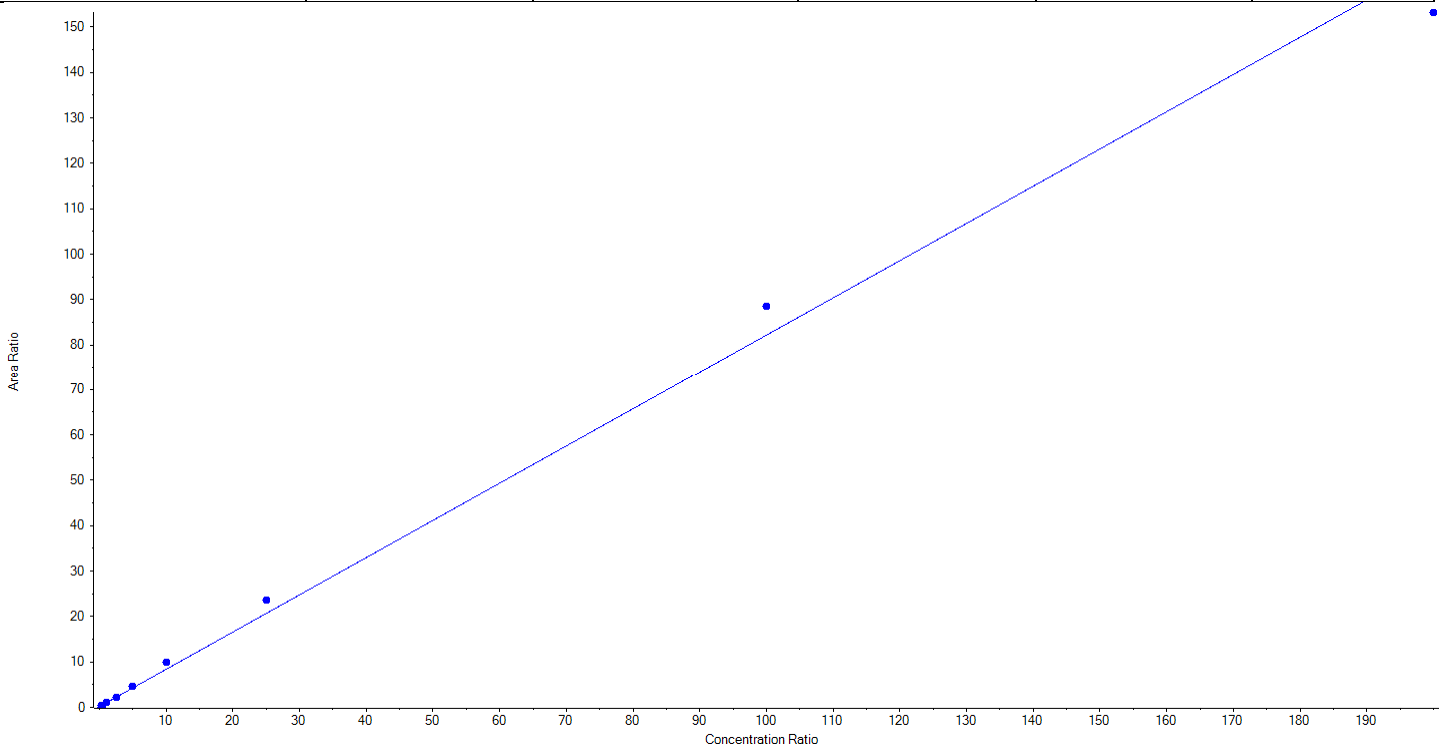


Analyte Name: PFTeDA_1
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.81976x + 0.18966$ ($r = 0.99638$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.698509	82.8	N/A	N/A
50.00000	1 of 1	37.374163	74.8	N/A	N/A
100.00000	1 of 1	100.483978	100.5	N/A	N/A
250.00000	1 of 1	253.641545	101.5	N/A	N/A
500.00000	1 of 1	530.011524	106.0	N/A	N/A
1000.00000	1 of 1	1190.575893	119.1	N/A	N/A
2500.00000	1 of 1	2861.500365	114.5	N/A	N/A
10000.00000	1 of 1	10768.712330	107.7	N/A	N/A
20000.00000	1 of 1	18662.001693	93.3	N/A	N/A

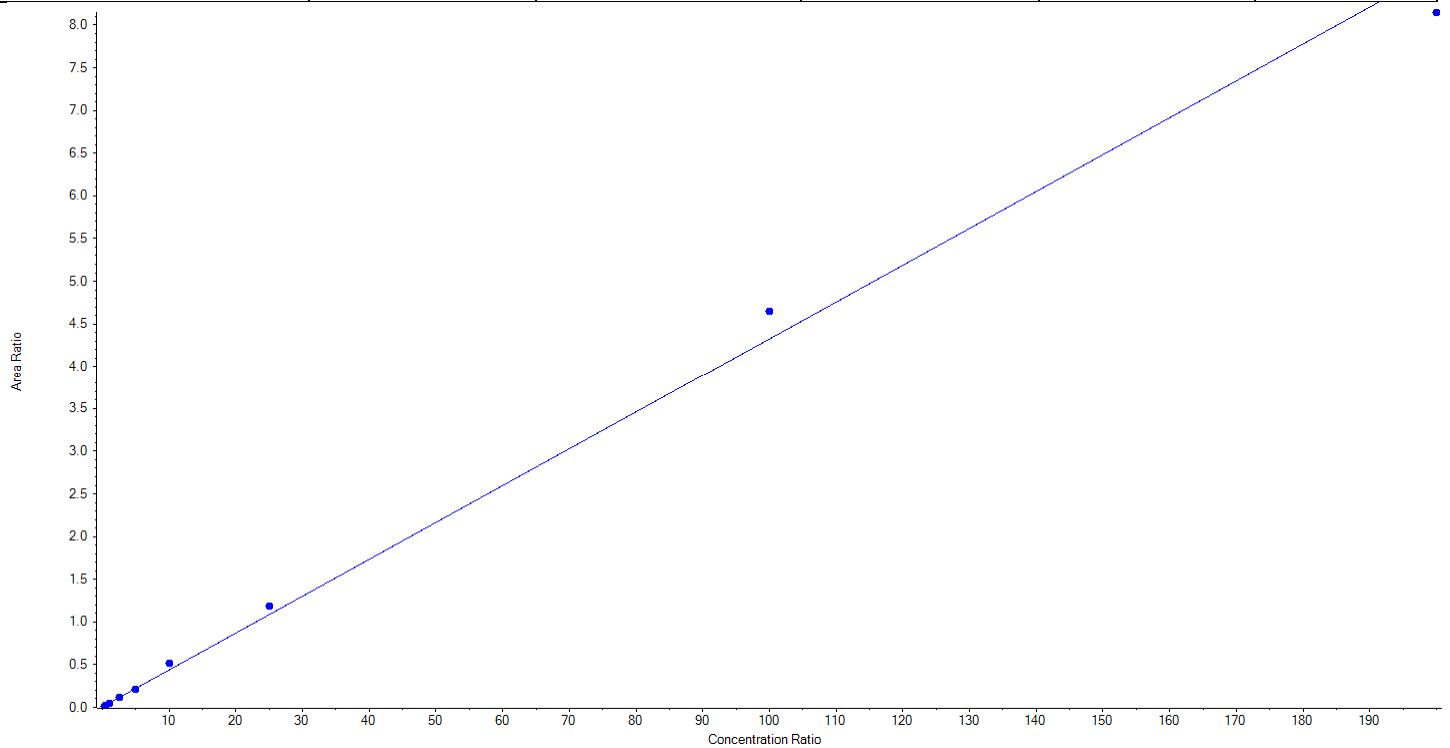


Analyte Name: PFTeDA_2
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04318x + 0.00691$ (r = 0.99730) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	23.171072	92.7	N/A	N/A
50.00000	1 of 1	36.229290	72.5	N/A	N/A
100.00000	1 of 1	104.692473	104.7	N/A	N/A
250.00000	1 of 1	265.266327	106.1	N/A	N/A
500.00000	1 of 1	477.858637	95.6	N/A	N/A
1000.00000	1 of 1	1172.163483	117.2	N/A	N/A
2500.00000	1 of 1	2735.811572	109.4	N/A	N/A
10000.00000	1 of 1	10757.710831	107.6	N/A	N/A
20000.00000	1 of 1	18852.096314	94.3	N/A	N/A

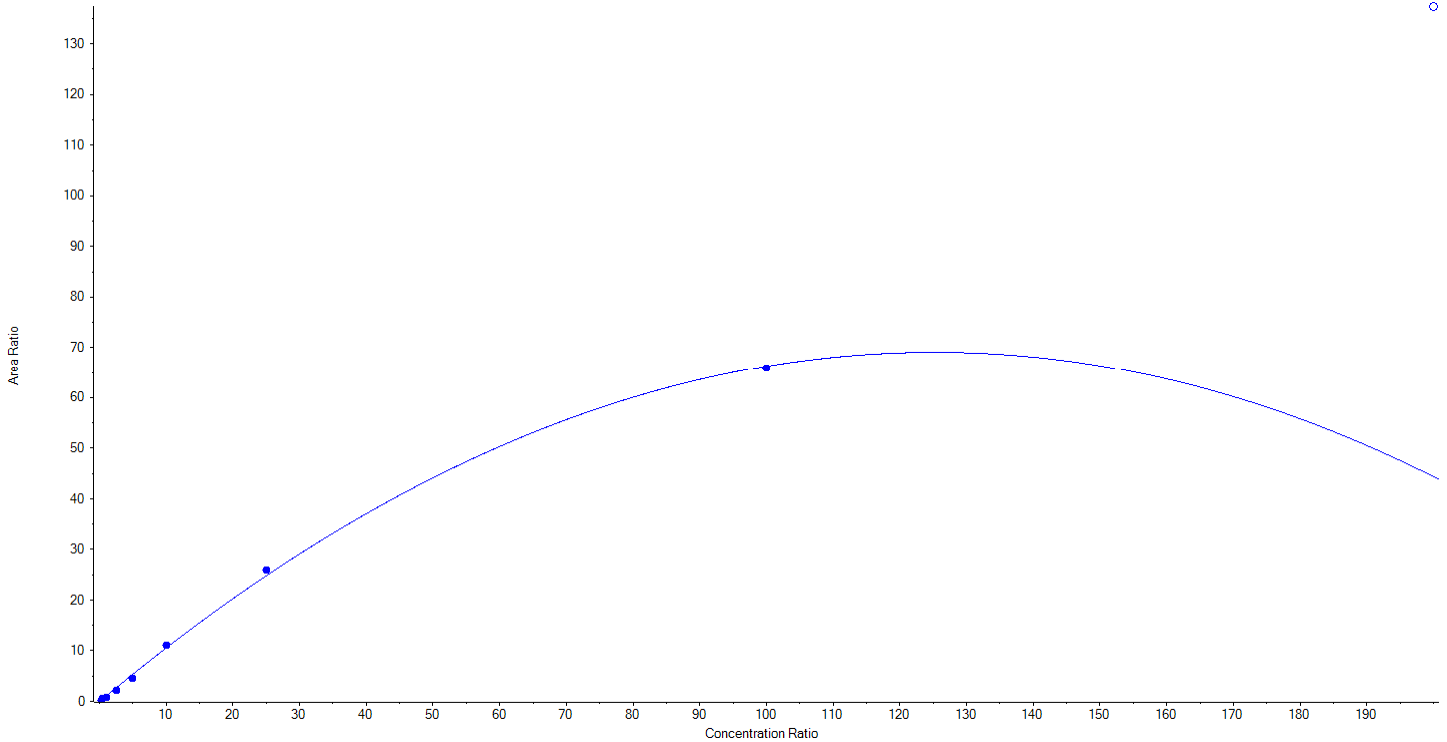


Analyte Name: NMeFOSAA_1
Internal Standard: d3-MeFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = -0.00441 x^2 + 1.10454 x + -0.06114$ (r = 0.99784) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.169726	128.7	N/A	N/A
50.00000	1 of 1	55.645104	111.3	N/A	N/A
100.00000	1 of 1	82.449873	82.5	N/A	N/A
250.00000	1 of 1	211.355806	84.5	N/A	N/A
500.00000	1 of 1	420.344353	84.1	N/A	N/A
1000.00000	1 of 1	1046.700488	104.7	N/A	N/A
2500.00000	1 of 1	2627.097605	105.1	N/A	N/A
10000.00000	1 of 1	9880.284792	98.8	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

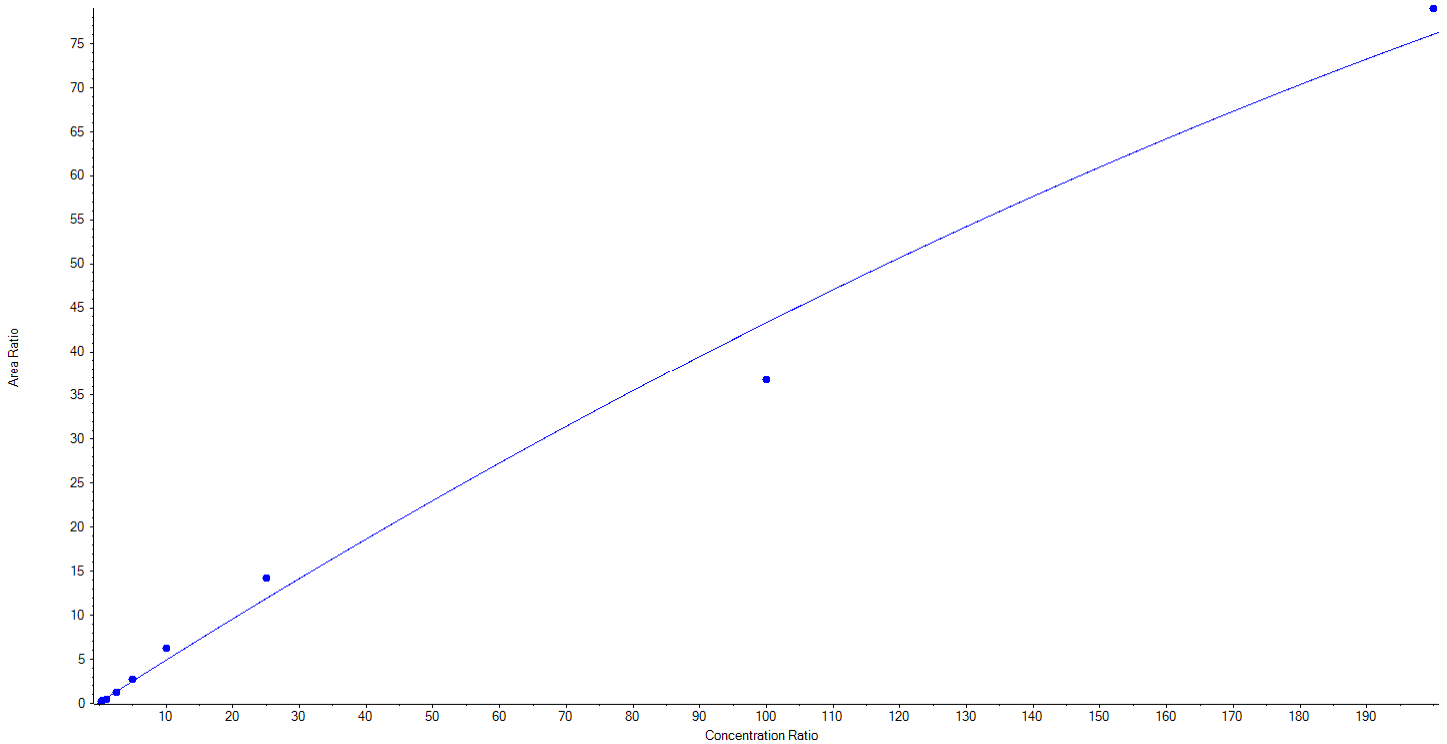


Analyte Name: NMeFOSAA_2
Internal Standard: d3-MeFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = -5.23136e-4 x^2 + 0.48430 x + 0.12252$ (r = 0.99174) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	27.650834	110.6	N/A	N/A
50.00000	1 of 1	40.640841	81.3	N/A	N/A
100.00000	1 of 1	70.096948	70.1	N/A	N/A
250.00000	1 of 1	229.533991	91.8	N/A	N/A
500.00000	1 of 1	546.889443	109.4	N/A	N/A
1000.00000	1 of 1	1285.828032	128.6	N/A	N/A
2500.00000	1 of 1	3019.444766	120.8	N/A	N/A
10000.00000	1 of 1	8302.470284	83.0	N/A	N/A
20000.00000	1 of 1	21088.210110	105.4	N/A	N/A

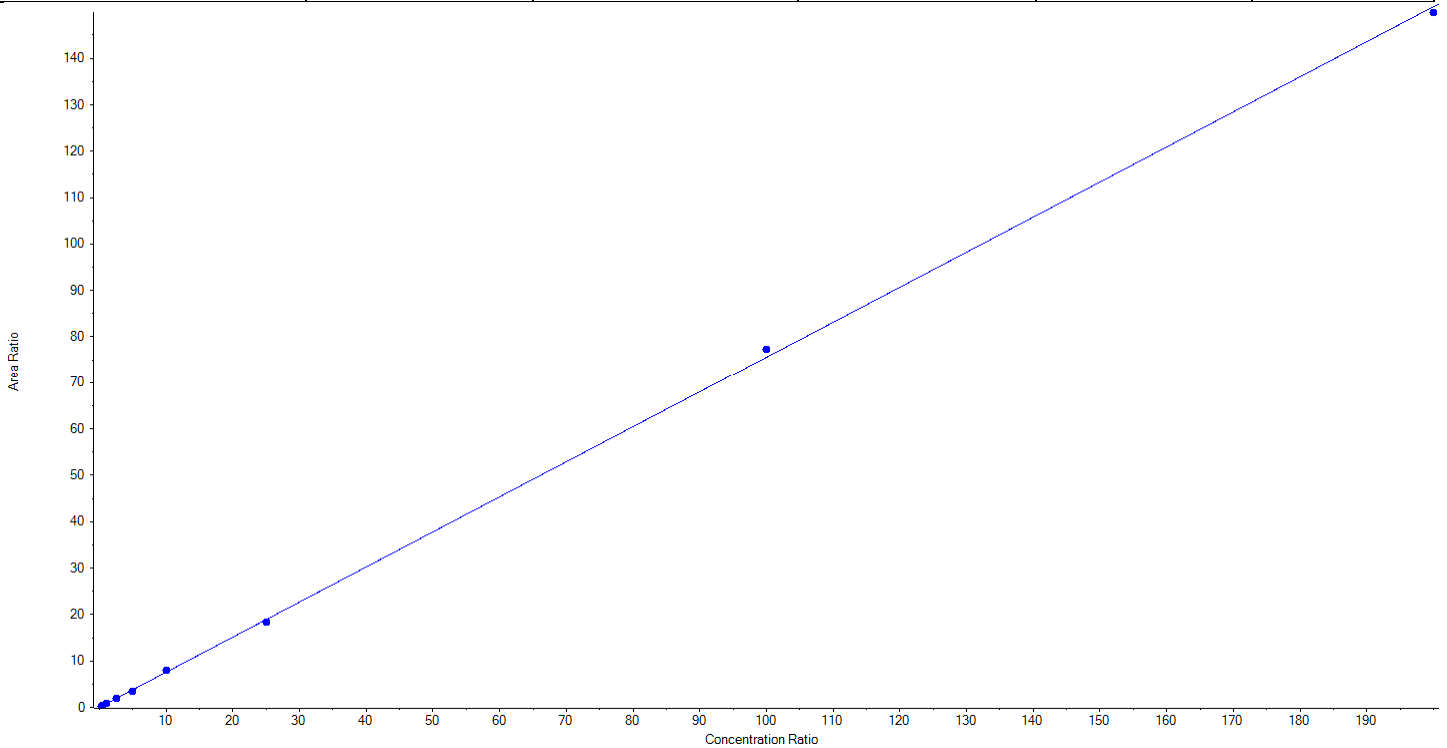


Analyte Name: NEtFOSAA_1
Internal Standard: d5-EtFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.75542x + 0.03121$ (r = 0.99979) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	25.089843	100.4	N/A	N/A
50.00000	1 of 1	50.987744	102.0	N/A	N/A
100.00000	1 of 1	105.048487	105.1	N/A	N/A
250.00000	1 of 1	241.694137	96.7	N/A	N/A
500.00000	1 of 1	462.018768	92.4	N/A	N/A
1000.00000	1 of 1	1047.054598	104.7	N/A	N/A
2500.00000	1 of 1	2435.103646	97.4	N/A	N/A
10000.00000	1 of 1	10227.125206	102.3	N/A	N/A
20000.00000	1 of 1	19830.877572	99.2	N/A	N/A

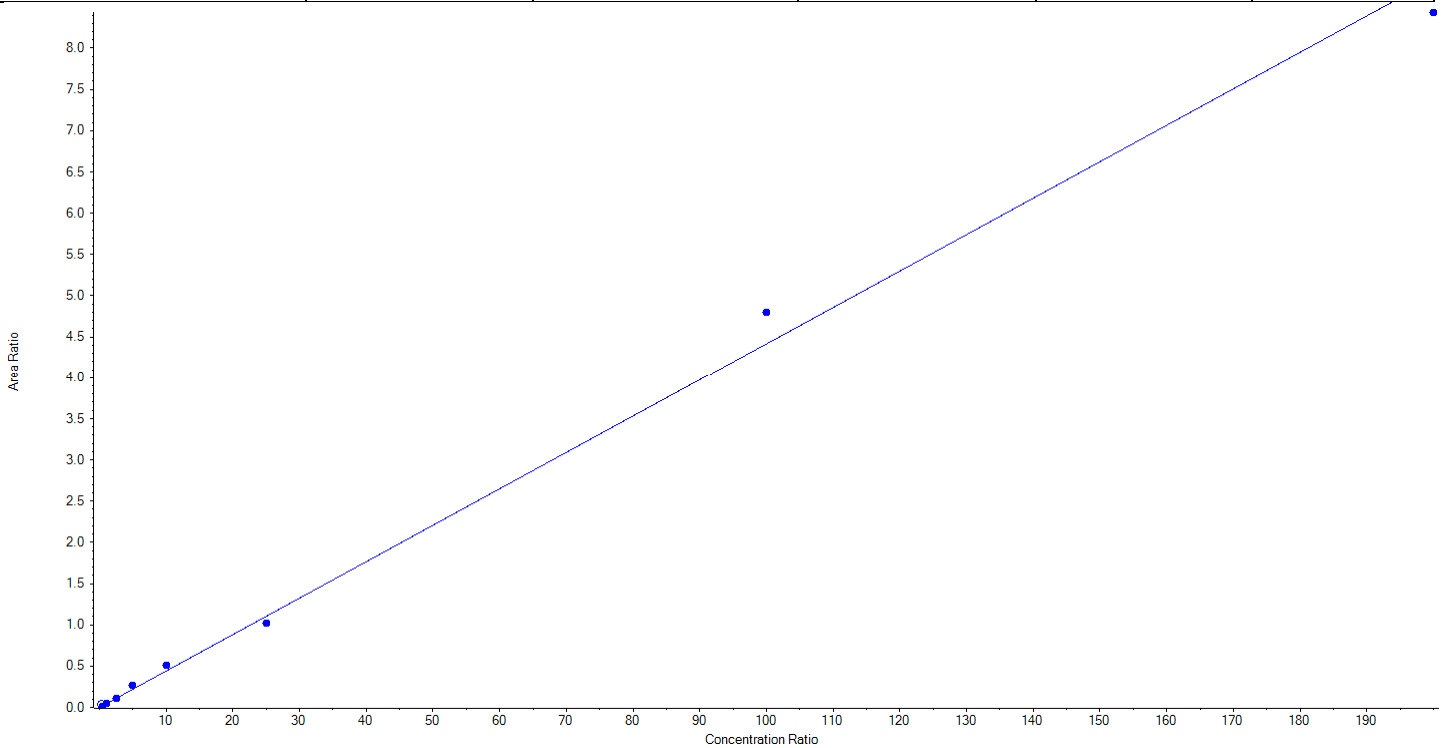


Analyte Name: NEtFOSAA_2
Internal Standard: d5-EtFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04416x + -5.94973e-4$ (r = 0.99724) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	35.851083	71.7	N/A	N/A
100.00000	1 of 1	100.927486	100.9	N/A	N/A
250.00000	1 of 1	237.021437	94.8	N/A	N/A
500.00000	1 of 1	606.268765	121.3	N/A	N/A
1000.00000	1 of 1	1148.398097	114.8	N/A	N/A
2500.00000	1 of 1	2307.175978	92.3	N/A	N/A
10000.00000	1 of 1	10871.876953	108.7	N/A	N/A
20000.00000	1 of 1	19092.480200	95.5	N/A	N/A

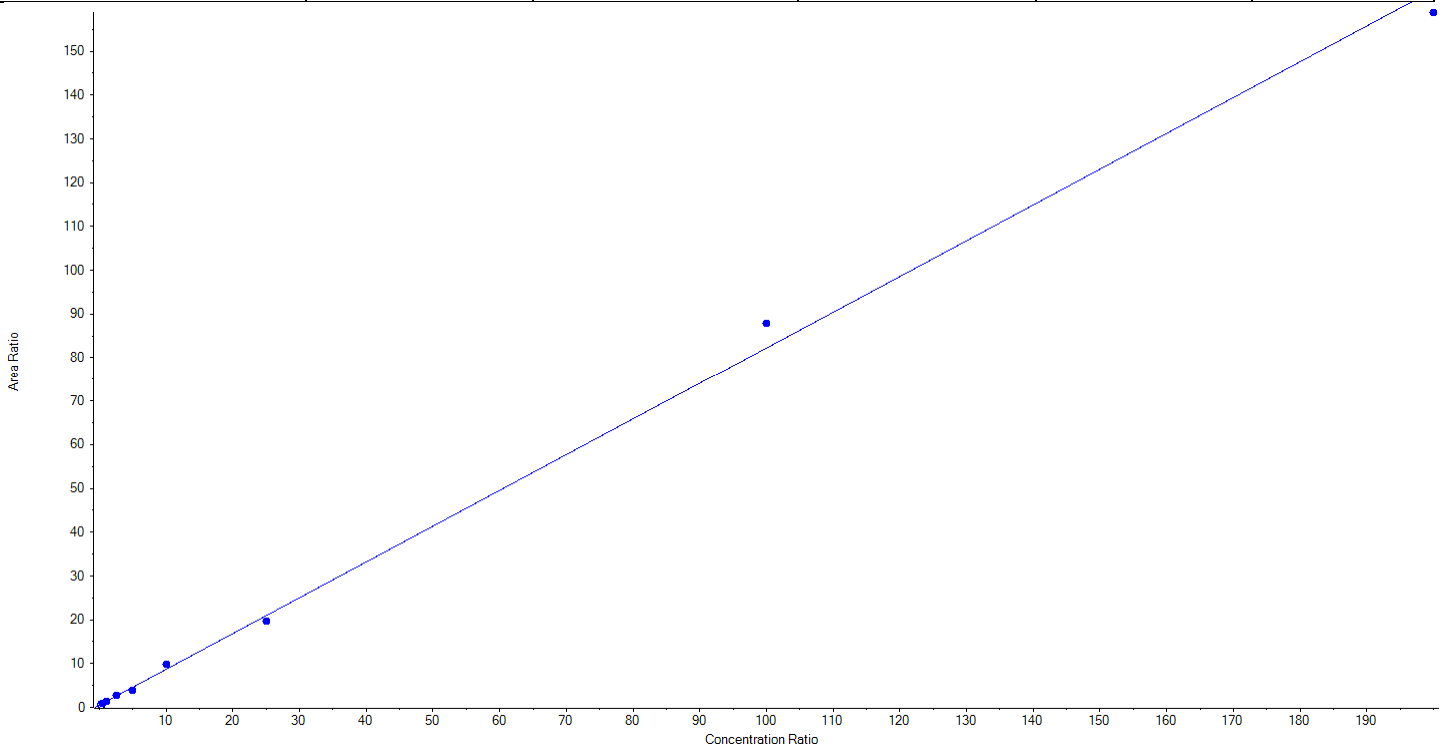


Analyte Name: PFBA
Internal Standard: 13C4-PFBA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.81707x + 0.52307$ (r = 0.99836) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	44.113279	88.2	N/A	N/A
100.00000	1 of 1	112.419718	112.4	N/A	N/A
250.00000	1 of 1	258.858121	103.5	N/A	N/A
500.00000	1 of 1	423.629329	84.7	N/A	N/A
1000.00000	1 of 1	1129.039886	112.9	N/A	N/A
2500.00000	1 of 1	2357.771243	94.3	N/A	N/A
10000.00000	1 of 1	10699.785937	107.0	N/A	N/A
20000.00000	1 of 1	19374.382488	96.9	N/A	N/A

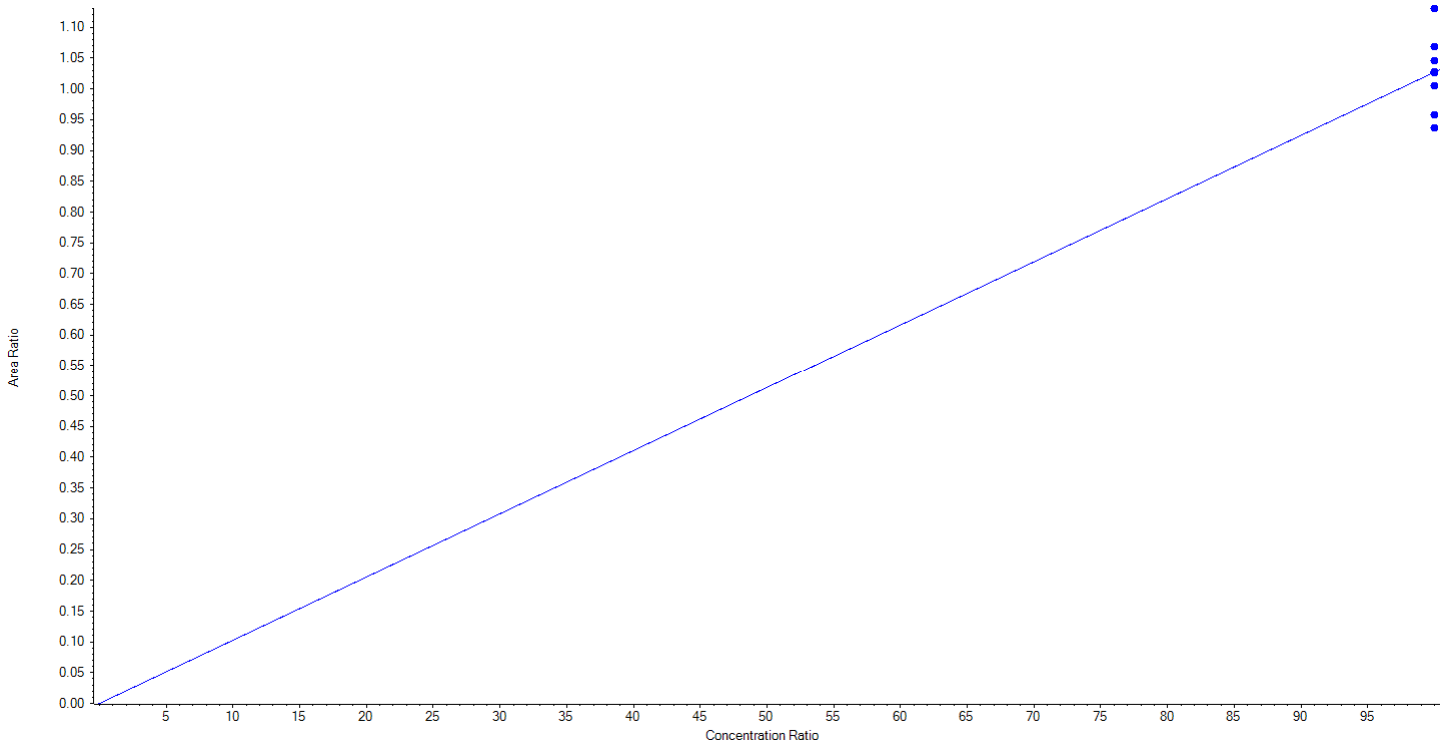


Analyte Name: 13C2-PFDoA
Internal Standard: 13C2-PFDA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.01027 x$ (std. dev. = $5.78707e-4$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	5.63	5.6

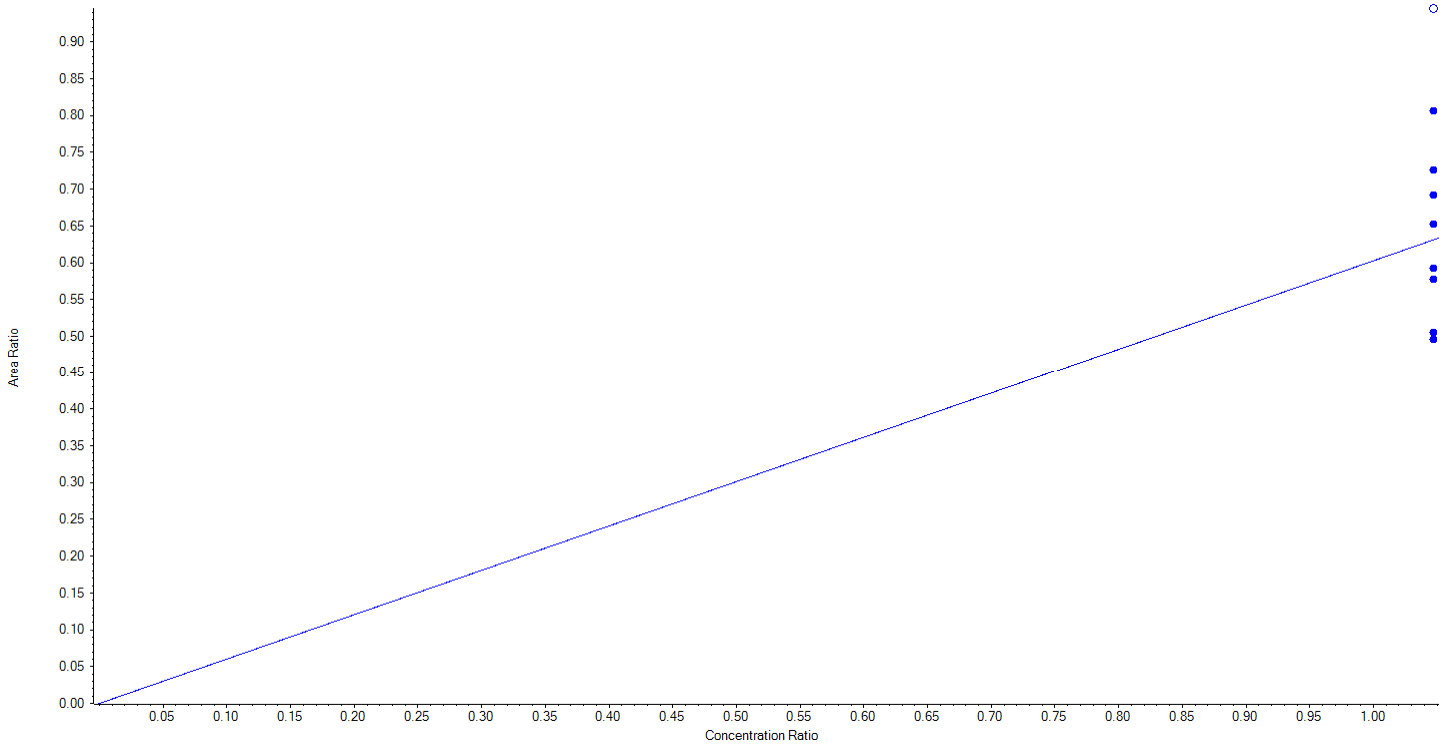


Analyte Name: d3-MeFOSAA
Internal Standard: 13C4-PFOS

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.60279x$ (std. dev. = 0.10338) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	8 of 9	100.000000	100.0	17.15	17.2

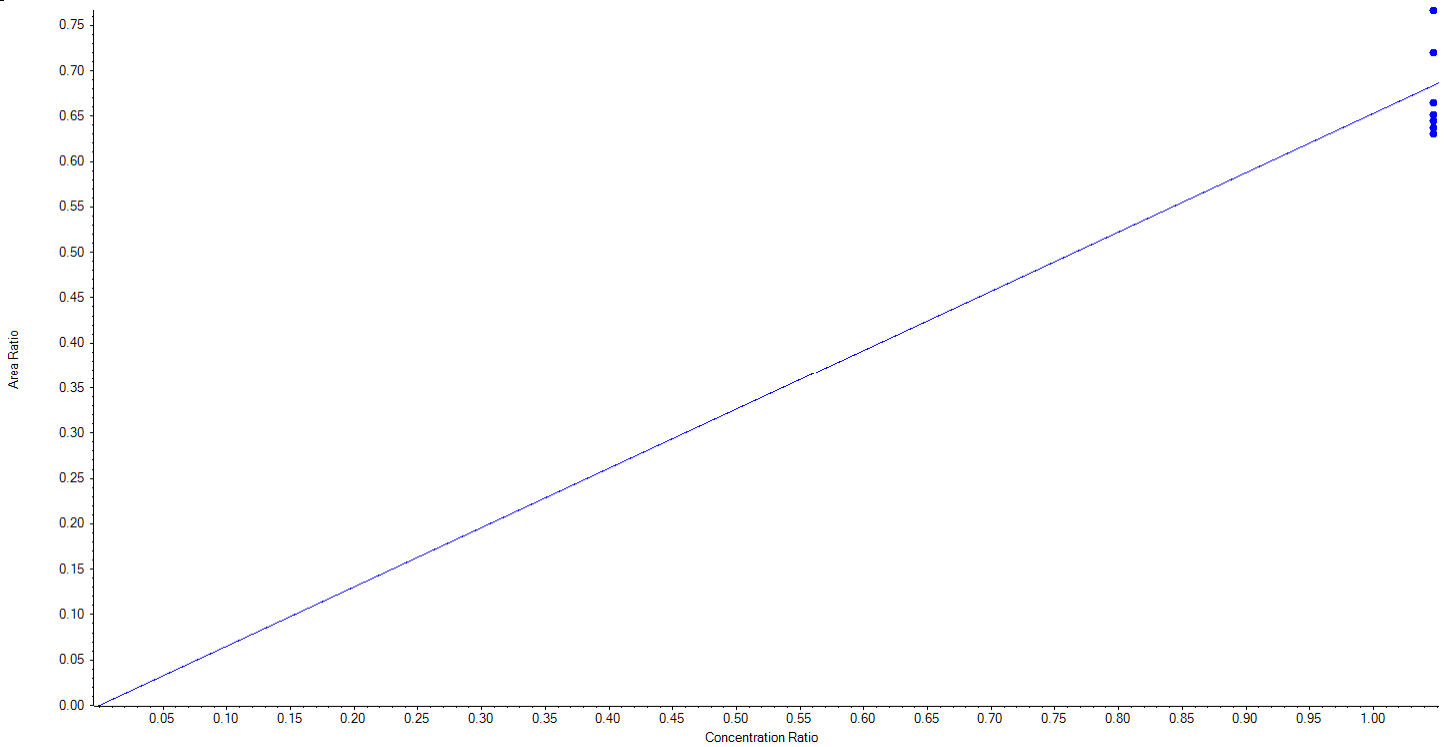


Analyte Name: d5-EtFOSAA
Internal Standard: 13C4-PFOS

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.65299x$ (std. dev. = 0.04620) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	7.08	7.1

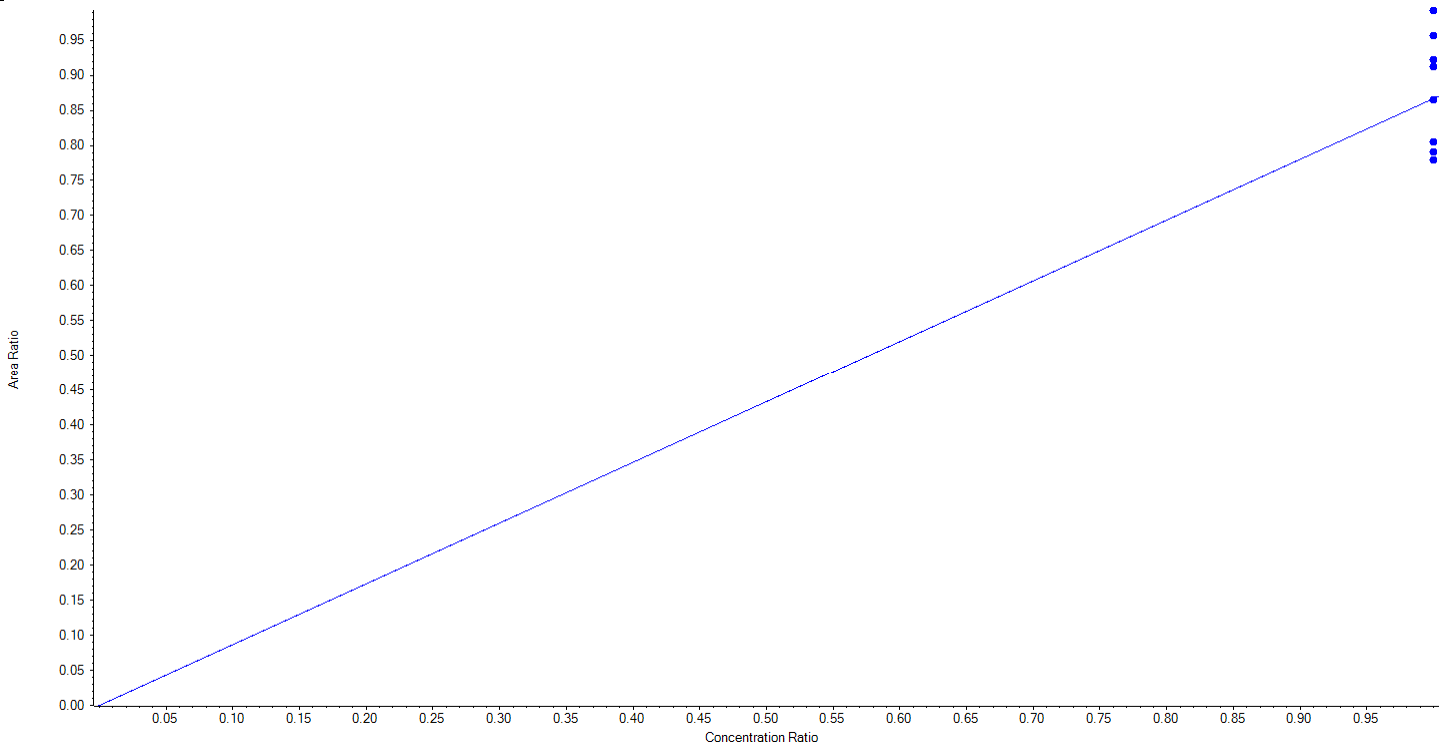


Analyte Name: 13C5-PFHxA
Internal Standard: 13C2-PFOA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.86683 x$ (std. dev. = 0.08192) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	9.45	9.5

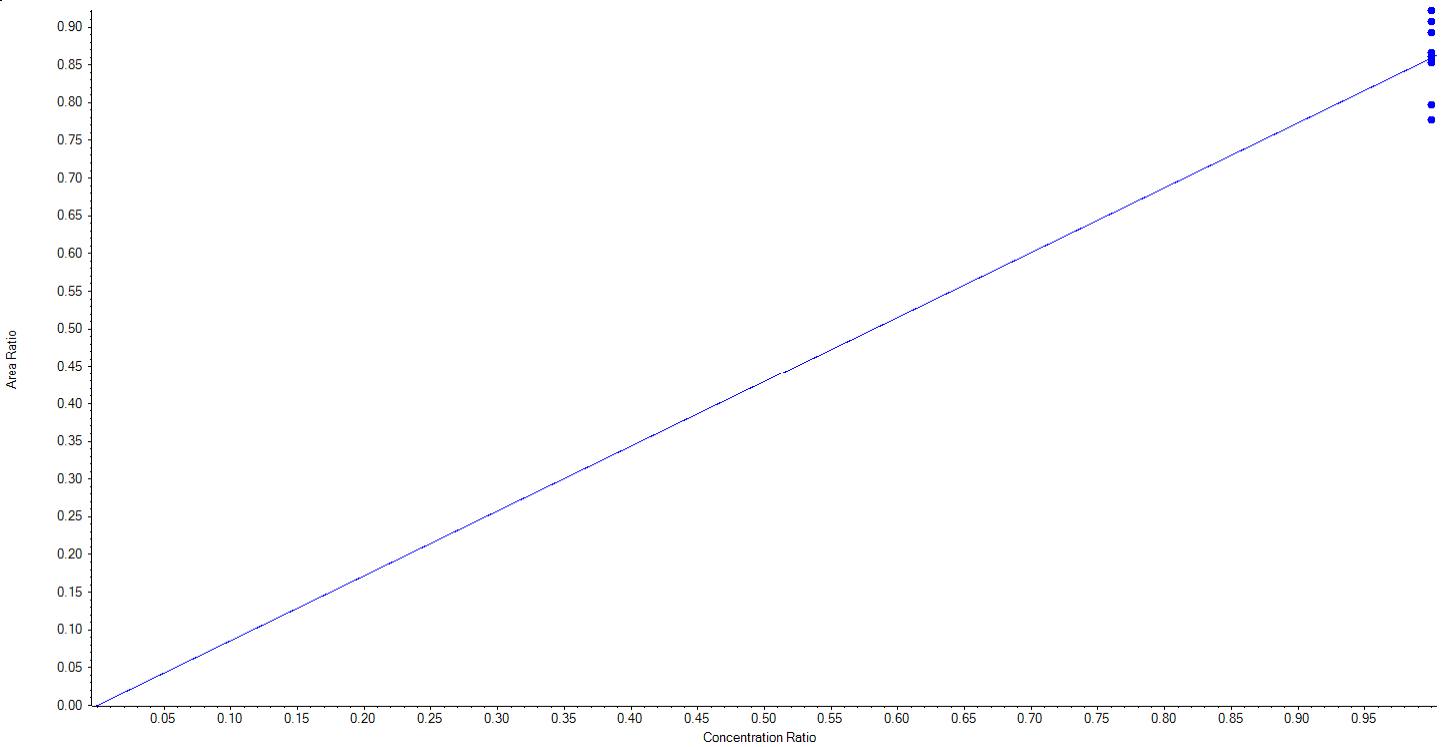


Analyte Name: 13C4-PFHpA
Internal Standard: 13C2-PFOA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.85903 x$ (std. dev. = 0.04764) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	5.55	5.6

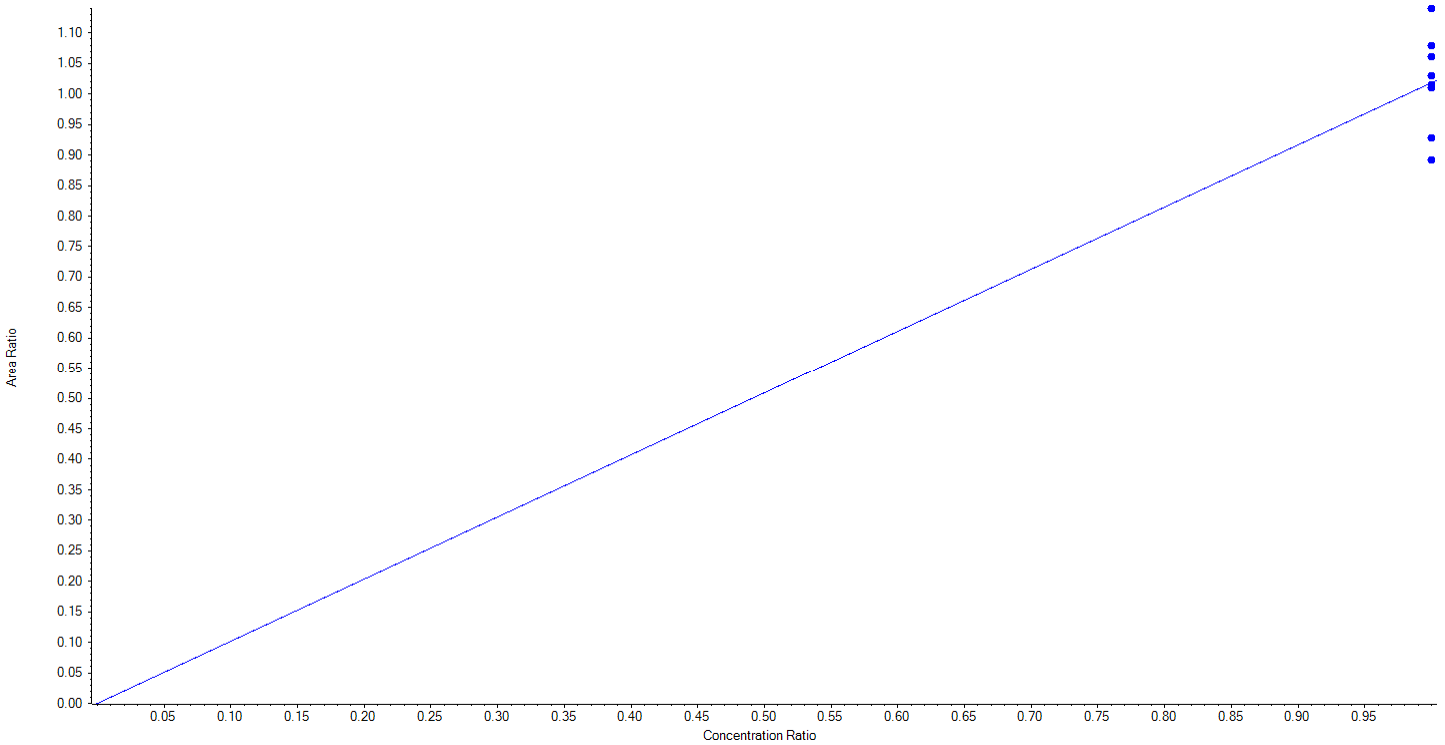


Analyte Name: 13C8-PFOA
Internal Standard: 13C2-PFOA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 1.01854 x$ (std. dev. = 0.07477) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	7.34	7.3

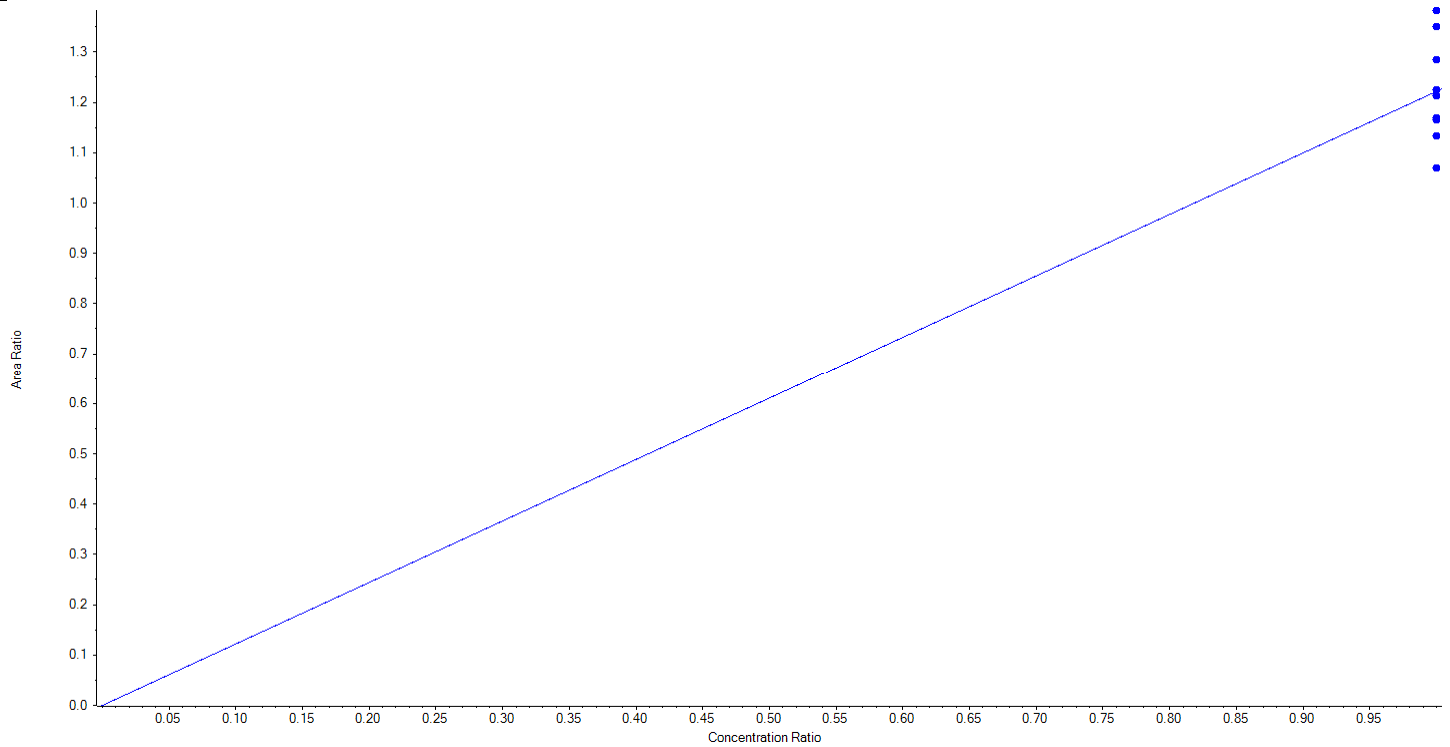


Analyte Name: 13C9-PFNA
Internal Standard: 13C2-PFOA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 1.22177 x$ (std. dev. = 0.10211) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	8.36	8.4

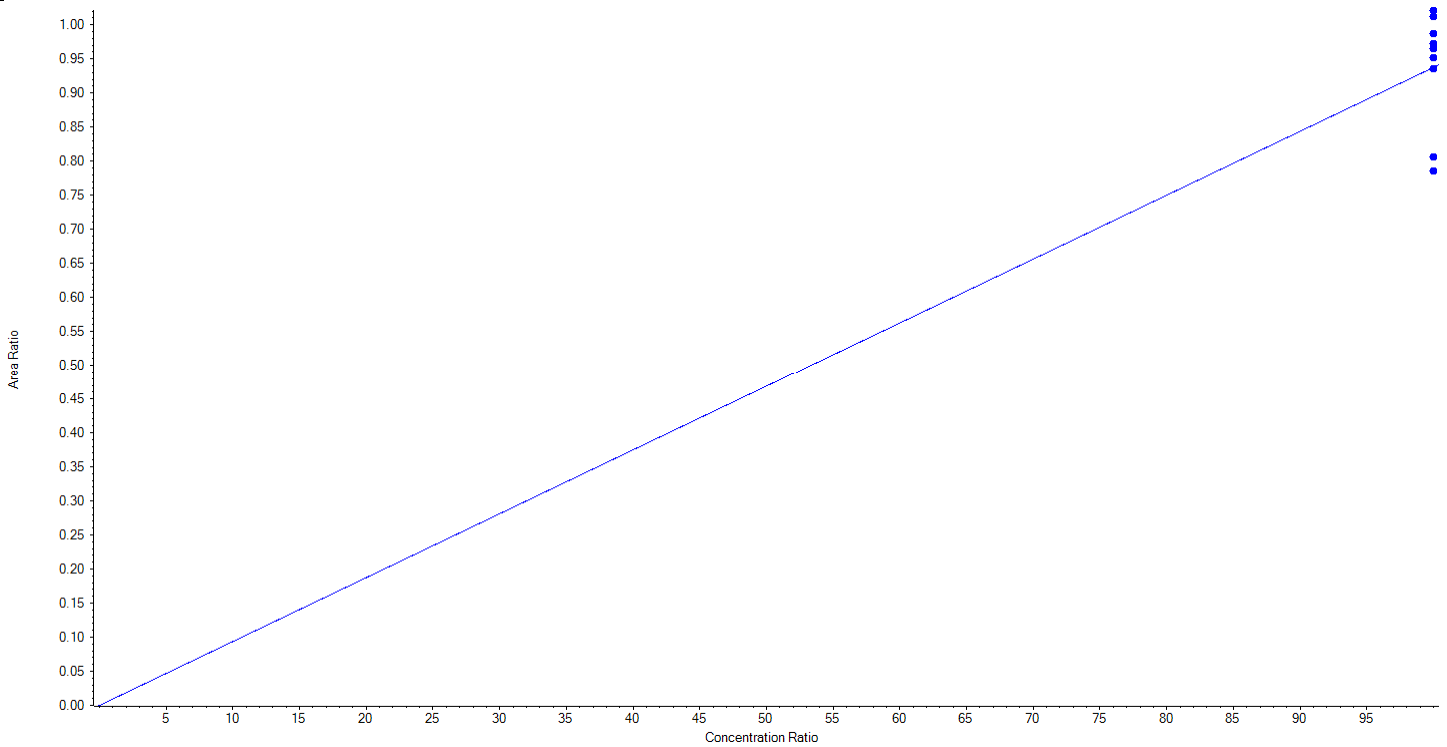


Analyte Name: 13C6-PFDA
Internal Standard: 13C2-PFDA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.00938 x$ (std. dev. = $8.48330e-4$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	9.05	9.1

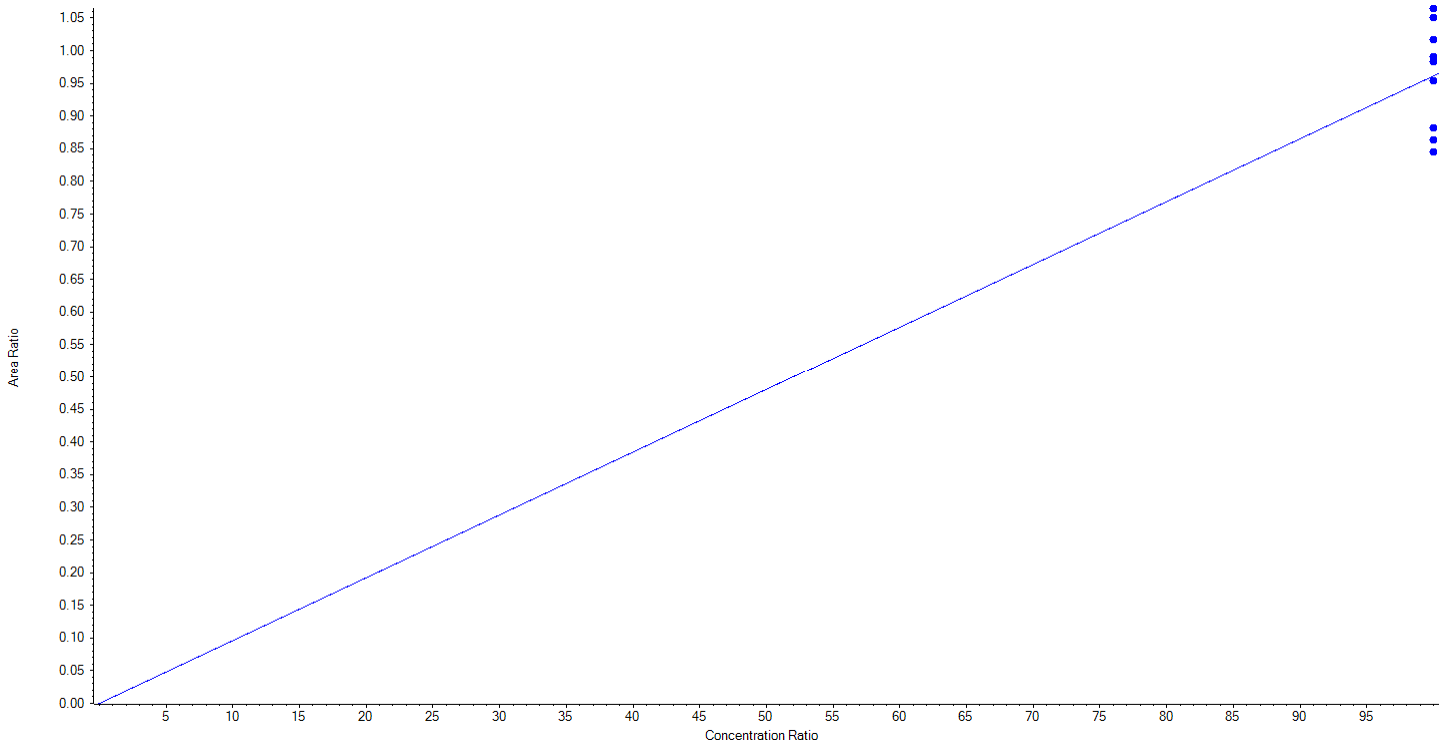


Analyte Name: 13C7-PFUnA
Internal Standard: 13C2-PFDA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.00961 x$ (std. dev. = $8.11708e-4$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	8.44	8.4

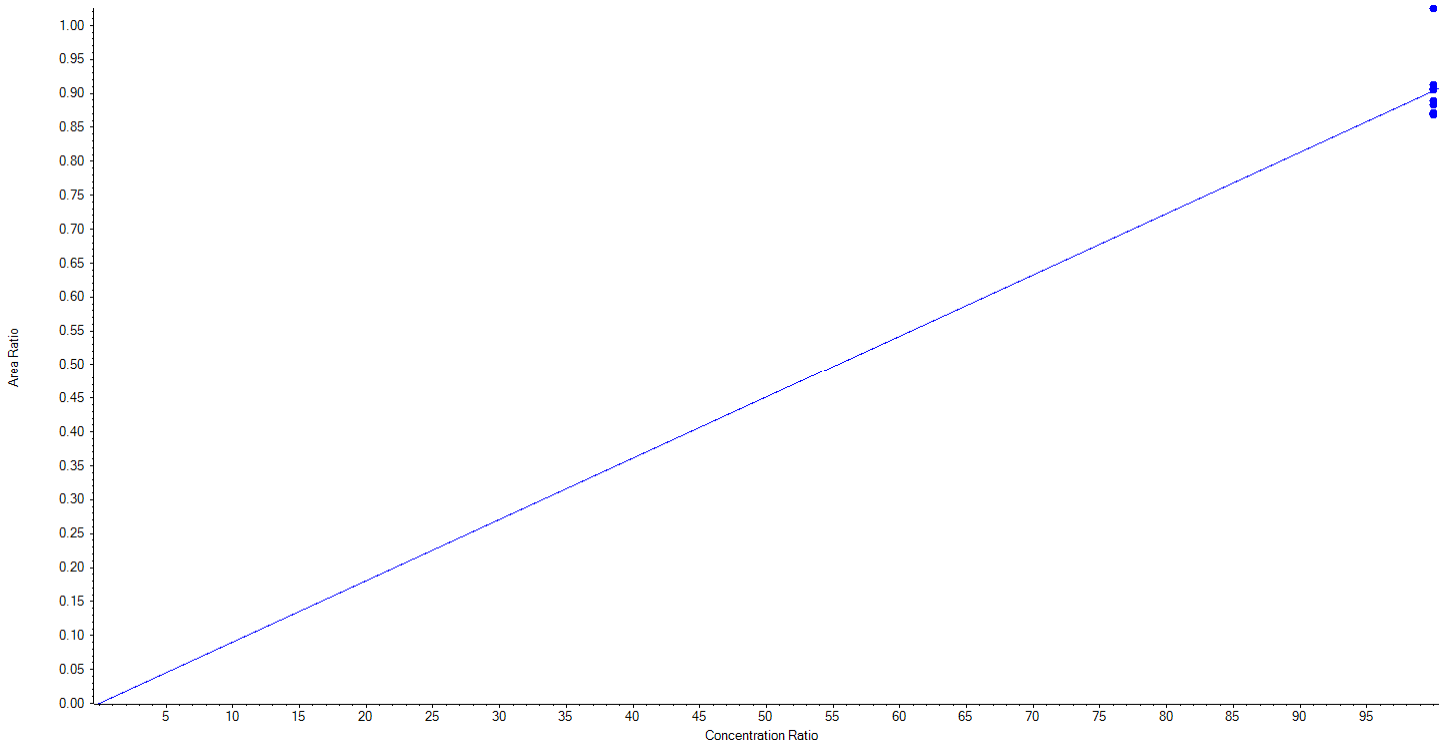


Analyte Name: 13C2-PFTeDA
Internal Standard: 13C2-PFDA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.00904 x$ (std. dev. = $4.86137e-4$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	5.38	5.4

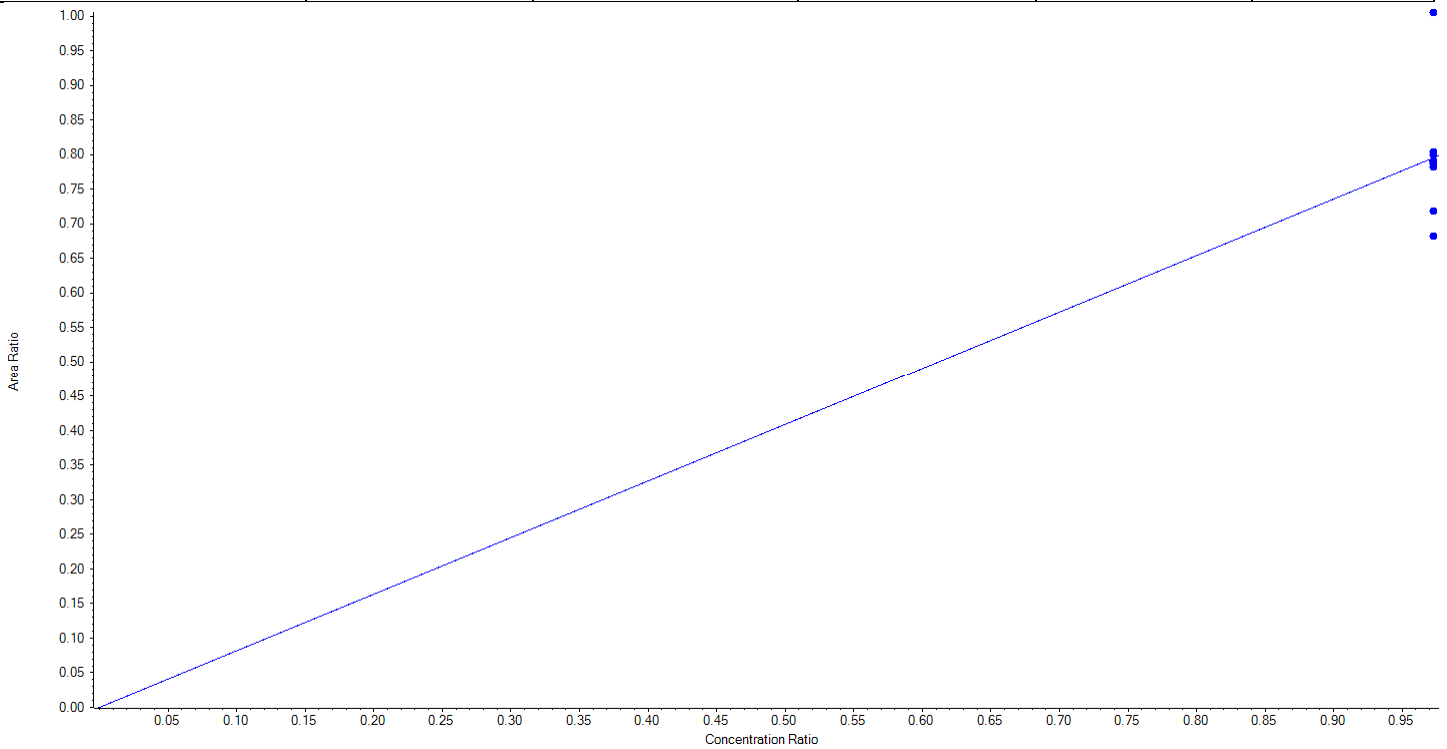


Analyte Name: 13C3-PFBS
Internal Standard: 13C4-PFOS

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.81780 x$ (std. dev. = 0.09136) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
92.90000	9 of 9	92.900000	100.0	10.38	11.2

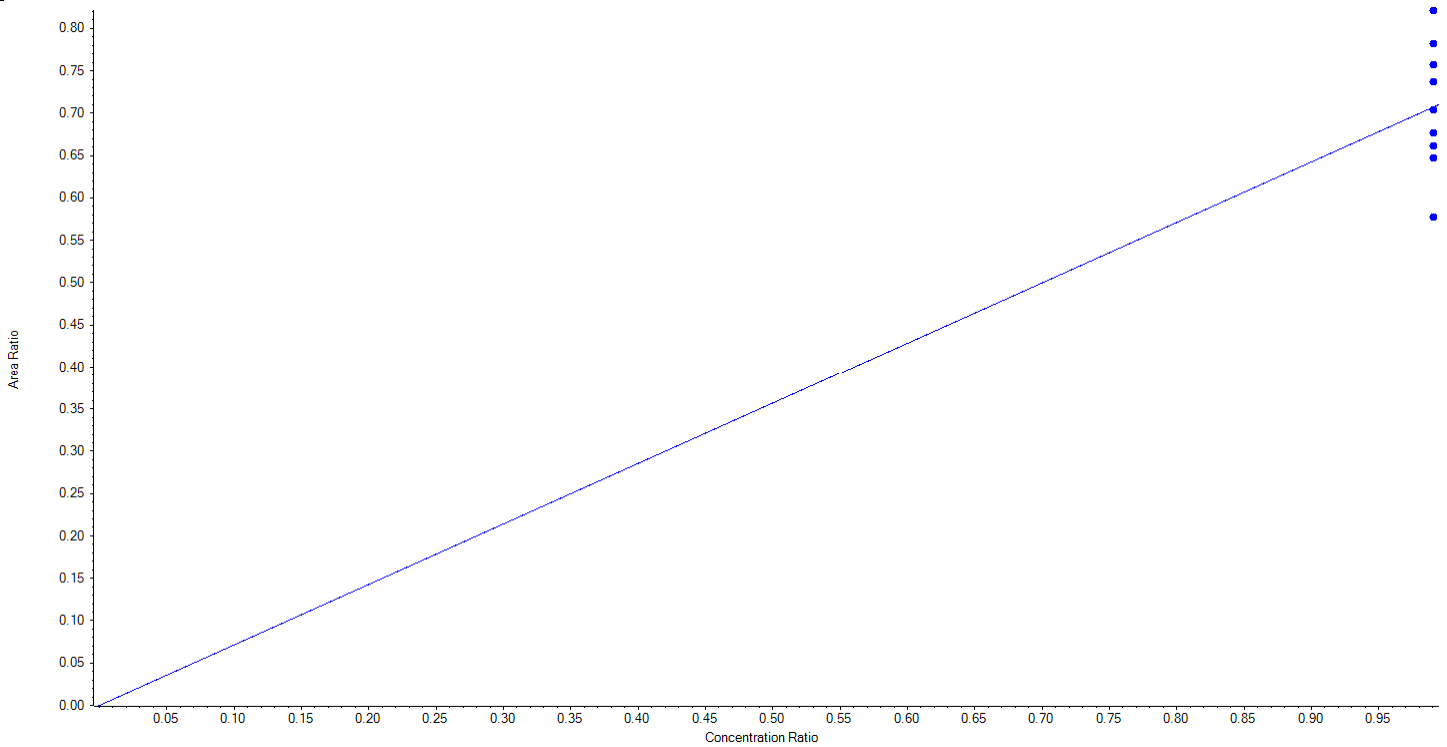


Analyte Name: 13C3-PFHxS
Internal Standard: 13C4-PFOS

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.71388 x$ (std. dev. = 0.07615) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
94.60000	9 of 9	94.600000	100.0	10.09	10.7

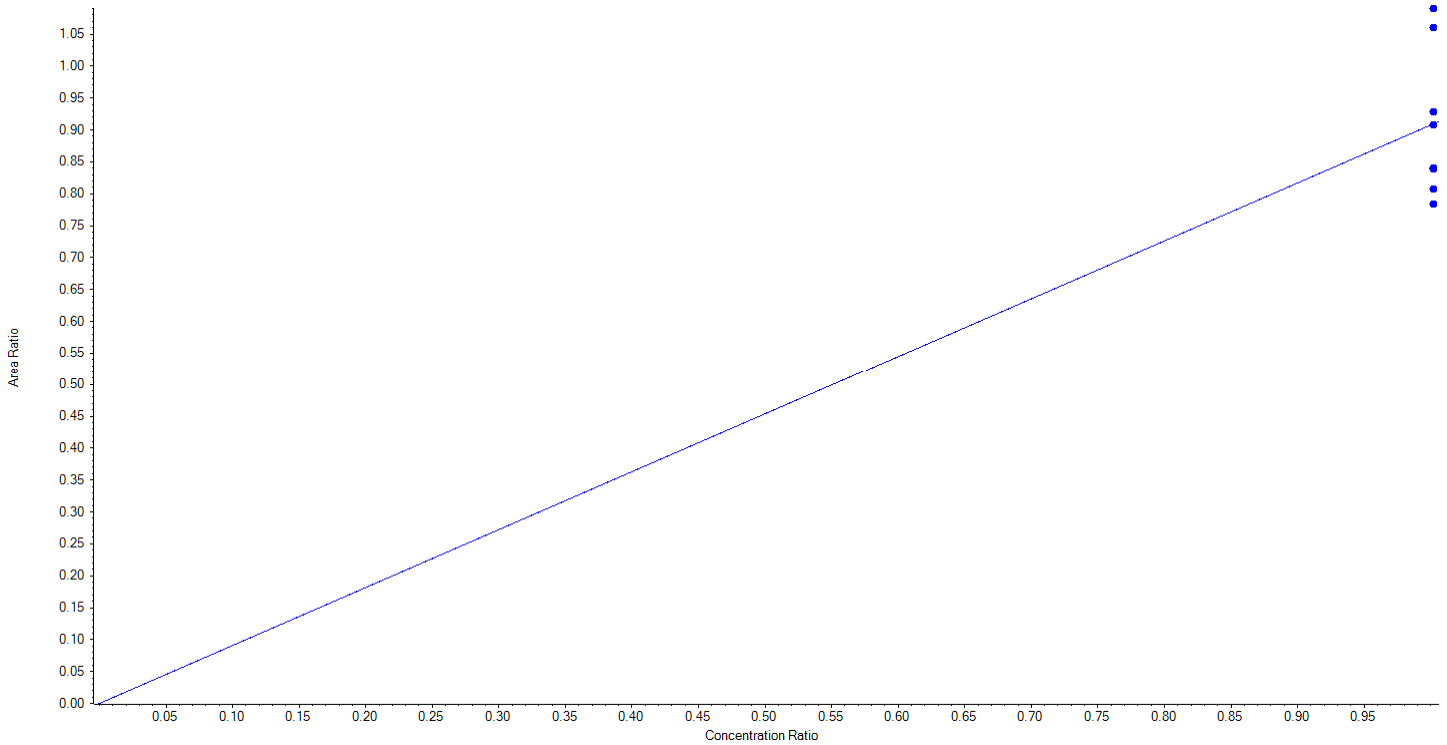


Analyte Name: 13C8-PFOS
Internal Standard: 13C4-PFOS

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.90765 x$ (std. dev. = 0.10697) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
95.70000	9 of 9	95.700000	100.0	11.28	11.8

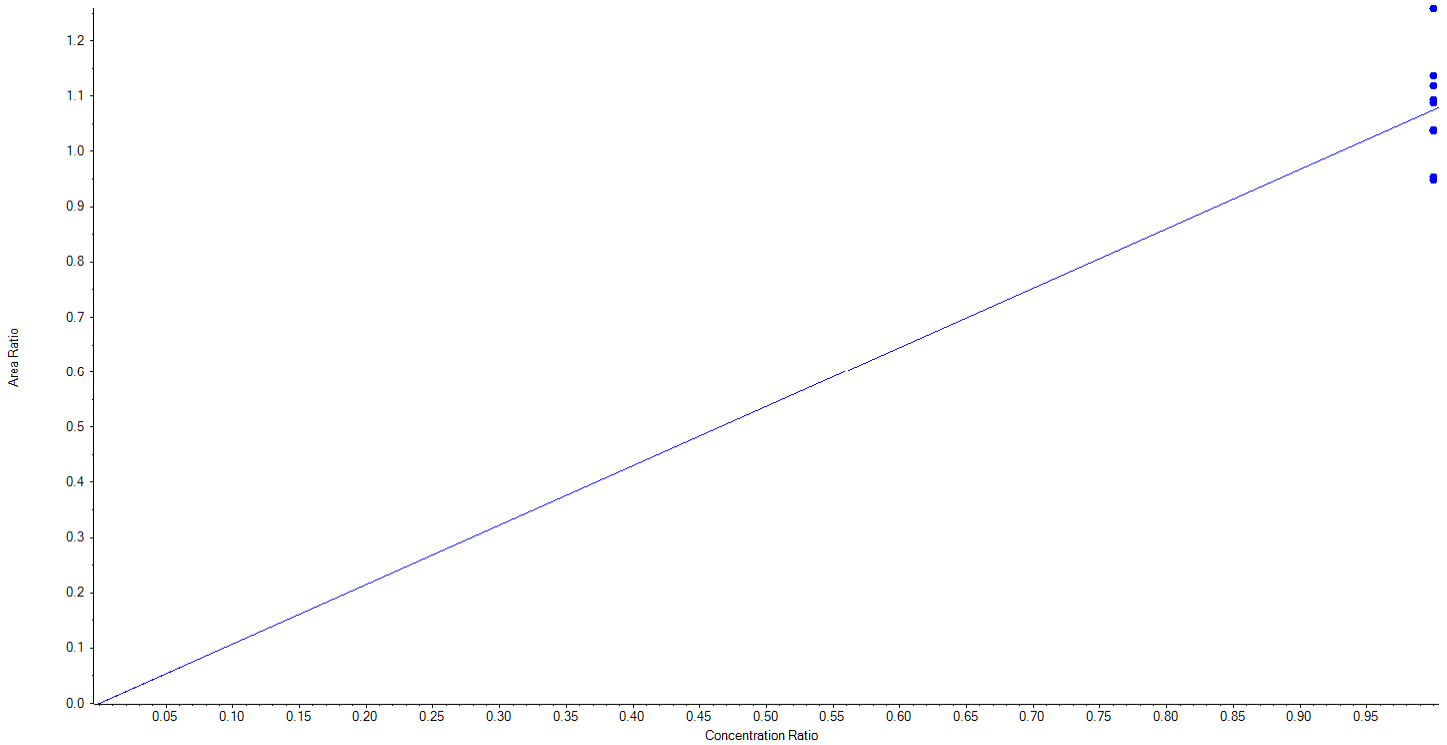


Analyte Name: 13C4-PFBA
Internal Standard: 13C3-PFBA

Data File	18-0216.wiff	Result Table	18-0216_SIS
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 1.07513 x$ (std. dev. = 0.09560) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
100.00000	9 of 9	100.000000	100.0	8.89	8.9





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WORK/QUALITY ASSURANCE PROJECT PLAN

1.0 GENERAL PROJECT INFORMATION

Project Title: CTO-JM08 - Naval Construction Battalion Center (NCBC)
Project Number: 100112541
Client: Tetra Tech
 661 Anderson Drive Foster Plaza 7
 Pittsburgh, PA 15220
 USA

Client Contact Information: Greg Roof
 NA
 NA
 NA
 greg.roof@tetrattech.com

Effective Date of QAPP: 3/21/2018
Version Number: 100112541(L)-02
Project Manager: Thorn, Jonathan
Laboratory Task Manager: Thorn, Jonathan
Deliverable Due Date: 4/10/2018

2.0 SCOPE OF WORK

Overview: Analysis of non-potable water samples collected at NCBC in Gulfport, Mississippi. All time should be charged to 100115738-JM08.
Matrix: Water

2.1 TECHNICAL APPROACH

2.1.1 Sample Receipt, Storage, and Handling

The list of samples for this project plan are presented in Attachment 1.

Storage Directions: Store samples refrigerated prior to extraction.
Sub_Sampling: None
Procedures: NA
Contact: NA
Comment: NA
Archiving: NA
Disposal: NA



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WORK/QUALITY ASSURANCE PROJECT PLAN

2.1.2 Sample Preparation

NA

Samples Expected:	Samples Per Batch:	Batches Expected:
12	20	1

Batch quality control samples are defined in Table 1.

Target samples are presented in Attachment 1.

Table 1: Quality Control Samples

Type:	Description:	Count:	Rgt:	Reference:	Comment:
PB	Laboratory control reagent blank.	1 per batch	--	NA	
LCS	Laboratory Control Sample	1 per batch	No	NA	
MS	Spiked field sample for determining method accuracy in the presence of matrix.	1 per batch	--	NA	Sample for MS/MSD to be identified by PM
MSD	Spiked field sample for determining method accuracy and precision in the presence of matrix.	1 per batch	--	NA	Sample for MS/MSD to be identified by PM

2.1.3 Extraction/Preparation

2.1.3.1 Extraction

SOP No.-Rev:	5-370-05
SOP Title:	<i>Extraction of Poly and Perfluoroalkyl Substances from Environmental Matrices</i>
Sample Size:	250 ml
SIS and LCS/MS Compounds:	Defined in Table 2.
Deviations:	None.
Comments:	FRB samples will only be extracted and analyzed if hits in the associated samples are greater than 1/3 the LOQ (5.0 ng/L).

Table 2: SIS and LCS/MS Spiking Level

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)	JR05 SIS	~ 0.100 ng	50 uL	NA



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WORK/QUALITY ASSURANCE PROJECT PLAN

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DOD Second Source LCS/MS Solution	JP49 LCS/MS	~ 10.0 ng	200 uL	MS/MSD samples
PFAS - Second Source Low Level Fortification	JP88 LCS/MS	~ 2.50 ng	500 uL	LCS sample.

2.1.3.2 Cleanup

None.

RIS spiking levels are presented in Table 3.

Extract PIV (uL): 500

Table 3: RIS Spiking Level

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Internal Standard Spiking Solution	JR08 RIS	~ 0.050 ng	25 uL	NA

2.1.4 Instrumental Analysis

The list of analytes along with data quality criteria are presented in Attachment 2.

- 1) SOP_No-Rev: **5-369-05**
- SOP_Title: *Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)*
- Deviations: None
- Comments: All criteria from DoD QSM 5.1 Table B-15 must be met

2.2. DELIVERABLES

Deliverables Due:	<u>4/10/2018</u>
LIMS Reports:	<i>Yes</i>
Histograms:	<i>No</i>
Excel Tables:	<i>Yes</i>
EICs:	<i>No</i>
Chromatograms:	<i>No</i>



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WORK/QUALITY ASSURANCE PROJECT PLAN

EDDs: *Yes*

Comments:

- Three week Turnaround Time
- Data tables must contain LOD/LOQ information.
- Case narrative must identify instrument used.
- Include sample calculation in final deliverable.
- Hard copy summary package, including case narrative, cross reference table of client to laboratory sample IDs, copy of COC, and all CLP-like data tables.
- Full L4 validation package per SAP and ADAPT EDD format.
- PDF of L4 and summary package will be provided (CD or DVD, two copies)
- ADAPT EDD format required - see SOW for details.

3.0 QUALITY

The Method Quality Objectives are defined in Attachment 3.

4.0 ORGANIZATION AND COMMUNICATION

4.1 ORGANIZATION

The project team is defined in Table 4. Supervisors may make substitutions with Project Manager concurrence.

Table 4: Project Team and Roles

Staff Member	Role	Comment
Jonathan R. Thorn	Project Manager	NA
Stephanie A. Schultz	Sample Preparation	NA
Denise M. Schumitz	LC-MS/MS Analysis	NA
Matt D. Schumitz	Sample Custody	NA
Carla R. Devine	Quality Control Officer	Zach Willenberg will perform QA review after data has been finalized by QC Chemist and deliverables have been made.

4.2 COMMUNICATION

A kick-off meeting will be held to discuss project scope and goals.

5.0 SCHEDULE

The project schedule is presented in Table 5.



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WORK/QUALITY ASSURANCE PROJECT PLAN

Table 5. Schedule of Laboratory Activities

Activity:	Start Date:	End Date:	TAT (days):	Comment:
Sample Receipt	NA	NA	0	NA
Sample Preparation	NA	NA	0	NA
Instrument Analysis	NA	NA	0	NA
Quality Control Review	NA	NA	0	NA

6.0 BUDGET

The labor budget for the analytical task is presented in Table 6.

Table 6. Labor Budget (Laboratory Analytical Task)

Labor Activity:	Hours/ Batch:	Batches:	Total Hours:	Comment:
Sample Receipt	1	1	1	NA
Sample Preparation	4	1	4	NA
Instrument Analysis	4	1	4	NA
Quality Control Review	2	1	2	0.5 hours for QA review.

7.0 STAFF DEVELOPMENT

None anticipated



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 1: Target Samples

Shipment: SHP-180320-02
Status: Pending
Description: 112G08005-JM08
Range: J5386-J5397
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J5386	06GW09FRB0318	03/17/2018 9:05 am	QC	R0118 (NA)			
2	J5387	06GW08031718	03/17/2018 9:25 am	GW	R0118 (NA)			MSMSD
3	J5388	06GW09031718	03/17/2018 9:23 am	GW	R0118 (NA)			
4	J5389	06GW04031718	03/17/2018 9:30 am	GW	R0118 (NA)			
5	J5390	06GW16031718	03/17/2018 10:23 am	GW	R0118 (NA)			
6	J5391	06GW15FRB0318	03/17/2018 10:25 am	QC	R0118 (NA)			
7	J5392	06GW15031718	03/17/2018 10:30 am	GW	R0118 (NA)			
8	J5393	06GW14FRB0318	03/17/2018 10:35 am	QC	R0118 (NA)			
9	J5394	06GW14031718	03/17/2018 10:40 am	GW	R0118 (NA)			
10	J5395	06GW06031718	03/17/2018 11:25 am	GW	R0118 (NA)			
11	J5396	06GW03031718	03/17/2018 12:05 pm	GW	R0118 (NA)			
12	J5397	06FDGW0318	03/17/2018 12:00 am	GW	R0118 (NA)			



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name:	Master_369
SOP Reference:	5-369 - Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)
Description:	PFAS by DoD QSM 5.1 Table B-15
Matrix:	L - Liquid Samples, like water or sea water, prepared and analyzed under the same class of detection limits.
Detection Limit Study:	5-369
Instrument:	LC-MS/MS
MQO Criteria	Universal_LC
Standard Report:	Standard Result Report

Method Specific Reporting		Holding Times (days)	Data Flags
Result Units:	ng/L	Unit Conversion: (none)	Sample: 14 DL_Flag: U
Weight Basis:	LIQUID	Result Format: Fixed Digits	Frozen: 40 RL_Flag: J
Standard Basis:	SIS	# of Figures/Digits: 2	Extract: 28 PB_Flag: B
Oil Weight Basis:	No	Oil Weight Source: Oil Weight	DIL_Flag: D
U-Value Substitution:	ND=MDL	Histograms: No	HT_Flag: T
ECD_Reporting:	No		

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Perfluoro-n-butanoic Acid	PFBA	T		Perfluoro-n-[1,2,3,4-13C4]butanoic acid	No	No
2	Perfluoro-n-hexanoic acid	PFHxA	T		Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	No	No
3	Perfluoro-n-heptanoic Acid	PFHpA	T		Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	No	No
4	Perfluoro-n-octanoic Acid	PFOA	T		Perfluoro-n-[13C8]octanoic acid	No	No
5	Perfluorononanoic Acid	PFNA	T		Perfluoro-n-[13C9]nonanoic acid	No	No
6	Perfluoro-n-decanoic Acid	PFDA	T		Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	No	No
7	Perfluoro-n-undecanoic acid	PFUnA	T		Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	No	No
8	Perfluoro-n-dodecanoic acid	PFDoA	T		Perfluoro-n-[1,2-13C2]dodecanoic acid	No	No
9	Perfluoro-n-tridecanoic acid	PFTTrDA	T		Perfluoro-n-[1,2-13C2]tridecanoic acid	No	No
10	Perfluoro-n-tetradecanoic acid	PFTeDA	T		Perfluoro-n-[1,2-13C2]tetradecanoic acid	No	No
11	N-methylperfluoro-1-octanesulfonamidoacetic acid	NMeFOSAA	T		N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	No	No



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_369

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
12	N-ethylperfluoro-octanesulfonamidoacetic acid	NEtFOSAA	T		N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	No	No
13	Perfluoro-1-butanefulfonic Acid	PFBS	T		Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	No	No
14	Perfluoro-1-hexanesulfonic Acid	PFHxS	T		Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	No	No
15	Perfluoro-1-octanesulphonic Acid	PFOS	T		Sodium perfluoro-1-[13C8]octanesulfonate	No	No
1	Perfluoro-n-[1,2,3,4-13C4]butanoic acid	13C4-PFBA	SIS	Perfluoro-n-[2,3,4-13C3]butanoic Acid		No	No
2	Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	13C5-PFHxA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
3	Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	13C4-PFHpA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
4	Perfluoro-n-[13C8]octanoic acid	13C8-PFOA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
5	Perfluoro-n-[13C9]nonanoic acid	13C9-PFNA	SIS	Perfluoro-n-[1,2-13C2]octanoic acid		No	No
6	Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	13C6-PFDA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
7	Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	13C7-PFUnA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
8	Perfluoro-n-[1,2-13C2]dodecanoic acid	13C2-PFDoA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
9	Perfluoro-n-[1,2-13C2]tetradecanoic acid	13C2-PFTeDA	SIS	Perfluoro-n-[1,2-13C2]decanoic acid		No	No
10	N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	d3-MeFOSAA	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
11	N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	d5-EtFOSAA	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
12	Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	13C3-PFBS	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
13	Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	13C3-PFHxS	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
14	Sodium perfluoro-1-[13C8]octanesulfonate	13C8-PFOS	SIS	Perfluoro-1-[1,2,3,4-13C4]octanesulfonate		No	No
Total Analytes:		29					

Subtract Peaks:

None

Sum Peaks:

None



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_369

ICAL Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.99	N	5	N	y = Bx + C
Quadratic	NA	NA	0.99	N	6	N	y = Ax ² + Bx + C

Continuing Calibration Verification Criteria:

CCV Name: 5-369

Frequency Hrs:	Mean PD(%):	Individual PD(%):	RIS/SIS RT Window (min):	Area Limit Low(%):	Area Limit High(%):	Comment:
12 (N)	30 (N)	30 (N)	0.04 (N)	-50	100 (N)	NA

Independent Calibration Verification:

ICC Name: 5-369

Mean PD Limit(%):	Ind. PD Limit(%):	RIS/SIS Window Limit (Secs):	Area Limit High(%):	Area Limit Low(%):	Comment:
30 (N)	30 (N)	0.04 (N)	-50	100 (N)	NA

Mass Discrimination Criteria:

None

Degradation Check Criteria:

None



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application		<i>Universal_LC</i>	
MQO:	Acceptance Criteria	Qual:	Corrective Action:
Procedural Blank	Samples must be greater than five times the blank concentration (>5xPB).	B	Review with Project Manager; re-analyze or justify results in project records.
PB Measurement Quality Objective	Organic results in the Procedural Blank are less than 1/2 times the LOQ (<1/2xLOQ)	N	Review with Project Manager; re-analyze or justify results in project records.
Laboratory Control Sample	Recovery values 70-130%.	N	Review with project manager; re-analyze or justify reporting the results in project records.
Matrix Spike / Matrix Spike Duplicate Recovery	Organics 70-130%. Analyte concentration in MS/MSD must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Matrix Spike/Spike Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Analyte concentration in MS/MSD must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Standard Reference Material Accuracy	Organics Percent Difference less than 30% from a range of certified values on average. Analyte concentration must be greater than five times the Method Detection Limit (>5xMDL).	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the MDL	n	
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Analyte concentration must be > 5x MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 5 times the MDL	n	



It can be done

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application	<i>Universal_LC</i>		
MQO:	Acceptance Criteria	Qual:	Corrective Action:
Analytical Triplicate Precision	Organics results less than 30% Relative Standard Deviation (RSD). Analyte concentration must be > 5x MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 5 times the MDL	n	
Surrogate Compound Recovery	Recovery results between 50% and 150%.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
Control Oil	RPD < 30% for at least 90% of analytes	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Instrument Calibration	5-369-5: R-squared greater than or equal to 0.990		Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Independent Calibration Check Solution	5-369-5: Individual PD less than or equal to 30%. Mean Percent Difference less than or equal to 30%.	N	Review with Project Manager; re-analyze or justify in project records.
Continuing Calibration Verification	5-369-5: Individual PD less than or equal to 30%. Mean Percent Difference less than or equal to 30%.	N	Review with Project Manager; re-analyze or justify in project records.



It can be done

**BATTELLE - NORWELL OPERATIONS
SAMPLE PREPARATION RECORDS**

<u>Project Title(s)</u>	<u>Project No.(s)</u>
PFAS Analytical work	100112541
18-0216	
CTO-JM08 - Naval Construction Batallion Center (NCBC)	
QC	
SOP Numbers (see workplan for modifications)	
ExtractionSOP No.	5-370

This Batch Contains The Following Samples:

CQ350PB-FS
CQ351LCS-FS
J5386-FS
J5391-FS
J5393-FS

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Stephanie Schultz

Approved By:	Date	Initials
Denise Schumitz	03/30/2018	DMS



It can be done

**BATTELLE - NORWELL OPERATIONS
SAMPLE IDENTIFICATION PAGE**

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Batallion Center (NCBC)****QC**

Sample ID	Description
CQ350PB-FS	Procedural Blank
CQ351LCS-FS	Laboratory Control Sample
J5386-FS	06GW09FRB0318
J5391-FS	06GW15FRB0318
J5393-FS	06GW14FRB0318

Samples Assigned By:

Stephanie Schultz

Date :

March 29, 2018

Comments:



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE CUSTODY LOG

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Battalion Center (NCBC)****QC**

Requested On/By: 03/29/2018 SAS	Purpose: Sample Preparation
Relinquished On/By: 03/29/2018 MDS	Last Activity: Transfer
Accepted On/By: 03/29/2018 SAS Stored In Facility: Sample Preparation Stored Until: 03/29/2018 Stored Comment: NA	Returned On/To: Returned To Facility: Returned Comment: NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	J5386	1	C	Consumed	NA
2	J5391	1	C	Consumed	NA
3	J5393	1	C	Consumed	NA
Total Samples		3		* "C" = Consumed Container	



It can be done

**BATTELLE - NORWELL OPERATIONS
LIQUID SAMPLE ID FORM**

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216

CTO-JM08 - Naval Construction Batallion Center (NCBC)

QC

Sample ID	Description	Volume (mL)	Bottles	*	Date Initials
CQ350PB-FS	Procedural Blank	250.0	NA	--	03/29/18 SAS
CQ351LCS-FS	Laboratory Control Sample	250.0	NA	--	03/29/18 SAS
J5386-FS	06GW09FRB0318	260.0	1	C	03/30/18 SAS
J5391-FS	06GW15FRB0318	265.0	1	C	03/30/18 SAS
J5393-FS	06GW14FRB0318	265.0	1	C	03/30/18 SAS

Comments:

Samples Assigned By

Stephanie Schultz

Date : March 29, 2018

* - "C" = Sample is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS SURROGATE SPIKE FORM

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Batallion Center (NCBC)****QC**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
CQ350PB-FS	JR05	SIS	1	50	03/29/18 SAS	JCT	NA
CQ351LCS-FS	JR05	SIS	1	50	03/29/18 SAS	JCT	NA
CQ351LCS-FS	JU35	LCS/MS	1	500	03/29/18 SAS	JCT	NA
J5386-FS	JR05	SIS	1	50	03/29/18 SAS	JCT	NA
J5391-FS	JR05	SIS	1	50	03/29/18 SAS	JCT	NA
J5393-FS	JR05	SIS	1	50	03/29/18 SAS	JCT	NA

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
JR05	Pipette	D1075429B
JU35	Pipette	C0982448K



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE EXTRACTION FORM

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Battalion Center (NCBC)****QC**

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Conc. ID	Turbo °C	Turbo PSI	KD °C	Comment
CQ350PB-FS	03/29/18 SAS	NA	NA	NA	NA	NA	NA	NA
CQ351LCS-FS	03/29/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5386-FS	03/29/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5391-FS	03/29/18 SAS	NA	NA	NA	NA	NA	NA	NA
J5393-FS	03/29/18 SAS	NA	NA	NA	NA	NA	NA	NA

Solvents/Reagent Preparations:

Name	ID	Expires	Lot No	Procedure	Comments
0.4% NH3 in Methanol	RP-180329-1	03/29/18	161019	Per 100 mL, dilute 3.5 mL NH3 to 100 mL in Methanol	
0.4% NH3 in Methanol	RP-180329-1	03/29/18	SHBG7156V	Per 100 mL, dilute 3.5 mL NH3 to 100 mL in Methanol	
Pre-packed SPE Column	RP-180329-4	03/29/18	003637254A	Pre-packed SPE Column	

Solvents/Reagents:



It can be done

BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Battalion Center (NCBC)****QC****(N/A Fraction)**

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	Witn'd By
CQ350PB-FS(3)	475	25	JR08	25	1	500	2.000	03/29/18 SAS	JCT
CQ351LCS-FS(3)	475	25	JR08	25	1	500	2.000	03/29/18 SAS	JCT
J5386-FS(3)	475	25	JR08	25	1	500	2.000	03/29/18 SAS	JCT
J5391-FS(3)	475	25	JR08	25	1	500	2.000	03/29/18 SAS	JCT
J5393-FS(3)	475	25	JR08	25	1	500	2.000	03/29/18 SAS	JCT

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
JR08	Pipette	D1075429B

Extract Id:	Comments:
CQ350PB-FS	Samples reconstituted in 80/20 methanol/milli-q water (RP180323-2)

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

**BATTELLE - NORWELL OPERATIONS
EXTRACT SPIKE FORM**

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216

CTO-JM08 - Naval Construction Batallion Center (NCBC)

QC

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
JR08	Pipette	D1075429B



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Batallion Center (NCBC)****QC**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
CQ350PB-FS	0	C	3/29/2018 10:21:00 AM	NA		NA	NA	1.000	1.000	03/29/18 SAS
CQ350PB-FS	2	--	3/29/2018 11:55:00 AM	CQ350PB-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
CQ350PB-FS	3	--	3/29/2018 11:55:00 AM	CQ350PB-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
CQ351LCS-FS	0	C	3/29/2018 10:21:00 AM	NA		NA	NA	1.000	1.000	03/29/18 SAS
CQ351LCS-FS	2	--	3/29/2018 11:55:00 AM	CQ351LCS-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
CQ351LCS-FS	3	--	3/29/2018 11:55:00 AM	CQ351LCS-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
J5386-FS	0	C	3/29/2018 10:21:00 AM	NA		NA	NA	1.000	1.000	03/29/18 SAS
J5386-FS	2	--	3/29/2018 11:55:00 AM	J5386-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
J5386-FS	3	--	3/29/2018 11:55:00 AM	J5386-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
J5391-FS	0	C	3/29/2018 10:21:00 AM	NA		NA	NA	1.000	1.000	03/29/18 SAS
J5391-FS	2	--	3/29/2018 11:55:00 AM	J5391-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
J5391-FS	3	--	3/29/2018 11:55:00 AM	J5391-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
J5393-FS	0	C	3/29/2018 10:21:00 AM	NA		NA	NA	1.000	1.000	03/29/18 SAS
J5393-FS	2	--	3/29/2018 11:55:00 AM	J5393-FS	0	10000	5000	2.000	2.000	03/29/18 SAS

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Battalion Center (NCBC)****QC**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J5393-FS	3	--	3/29/2018 11:55:00 AM	J5393-FS	0	10000	5000	2.000	2.000	03/29/18 SAS
Extract Id: CQ350PB-FS		Comments: Samples reconstituted in 80/20 methanol/milli-q water (RP180323-2)								

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216**CTO-JM08 - Naval Construction Battalion Center (NCBC)****QC**

Purpose:	LC-MS/MS TRANSFER	Last Activity:	Prep->Inst
Relinquished On/By:	Mar 29 2018 4:57PM SAS	Received On/By:	Mar 29 2018 5:10PM DMS
Relinquished From:	Sample Preparation: NA	Received Location:	LC Laboratory: NA
Relinquish Comment:	NA	Received Comment:	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CQ350PB-FS(3)	500	2	Intact	NA
2	CQ351LCS-FS(3)	500	2	Intact	NA
3	J5386-FS(3)	500	2	Intact	NA
4	J5391-FS(3)	500	2	Intact	NA
5	J5393-FS(3)	500	2	Intact	NA
Total Extracts:		5			



It can be done

**BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM**

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216

CTO-JM08 - Naval Construction Batallion Center (NCBC)

QC

Entered By:

On:

Task Leader Approval:

On:

SupervisorApproval:

On:

PM Approval:

On:



It can be done

**BATTELLE - NORWELL OPERATIONS
SAMPLE SPECIFIC COMMENTS**

Project Title(s)

PFAS Analytical work

Project No.(s)

100112541

18-0216

CTO-JM08 - Naval Construction Batallion Center (NCBC)

QC

Sample ID:	Comment:	Date/Initials:
CQ350PB-FS	Sample extraction began at 10:21am for all samples.	03/29/18 SAS
CQ350PB-FS	Sample extraction ended at 11:14am	03/29/18 SAS
CQ351LCS-FS	Sample extraction ended at 11:20am	03/29/18 SAS
J5386-FS	Sample extraction ended at 11:16am	03/29/18 SAS
J5391-FS	Sample extraction ended at 11:24am	03/29/18 SAS
J5393-FS	Sample extraction ended at 11:17am	03/29/18 SAS

BATTELLE

It can be done

BDO Id: 171025-02

Reagent Receipt Report

Approved:

Name: PFOA - ICAL Mix Received: 10/25/2017

Vendor: ABSOLUTE STANDARDS Custodian: Schumitz, Matt

Catalogue No: 99207 Expires: 10/17/2022

Type: Solution Consumed: _____

Lot No: 101717 Stored In: LC Laboratory - F0111

Quantity: 5 ea ml % Moisture: _____

Description: PFOA - DOD

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
(Na) 1H,1H,2H,2H-Perfluorodecane	39108-34-4	1.0100	100.00	--	--	<input type="checkbox"/>			
(Na) 1H,1H,2H,2H-Perfluorohexane	BDO-2205	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) 1H,1H,2H,2H-Perfluorooctane s	27619-97-2	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) Perfluoro-1-decanesulfonate	2806-15-7	1.0100	100.00	--	--	<input type="checkbox"/>			
(NA) Perfluoro-1-heptanesulfonate	375-92-8	1.0000	100.00	--	--	<input type="checkbox"/>			
(Na) Perfluoro-1-nonanesulfonate	98789-57-2	1.0100	100.00	--	--	<input type="checkbox"/>			
N-ethylperfluoro-octanesulfonamidoa	2991-50-6	1.0000	100.00	--	--	<input type="checkbox"/>			
N-methylperfluoro-1-octanesulfonami	2355-31-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-butanefulfonic Acid	375-73-5	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-hexanesulfonic Acid	355-46-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonamide	754-91-6	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulphonic Acid	1763-23-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-butanoic Acid	375-22-4	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-decanoic Acid	335-76-2	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-dodecanoic acid	307-55-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-heptanoic Acid	375-85-9	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-hexanoic acid	307-24-4	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-octanoic Acid	335-67-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluorononanoic Acid	375-95-1	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-pentanoic acid	2706-90-3	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tetradecanoic acid	376-06-7	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-tridecanoic acid	72629-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-undecanoic acid	2058-94-8	1.0000	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-pentanesulfonat	BDO-2114	1.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 24

Notes:

Approved by: _____ Approved on: _____

Authorized by: _____ Authorized on: _____



CERTIFIED WEIGHT REPORT

171025-01

Part Number: 99207
Lot Number: 032217
Description: PFOA - LOD
24 components
Expiration Date: 032222
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 1.0
NIST Test ID#: 822-275#72-11

Solvent(s): Lot#
Methanol (1 mM KOH) 031317 (98%)
2-Propanol 23214 (2%)

<i>Paul Barron</i>		032217
Formulated By:	Paul Barron	DATE
<i>Pedro L. Rentas</i>		032217
Reviewed By:	Pedro L. Rentas	DATE

Volume(s) shown below were combined and diluted to (mL): 50.0 0.007

Note: All assigned values are anion concentrations.

Expanded SDS Information
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Perfluoro-n-butanoic acid	3670	PFBA0516	0.02	1.00	0.004	50.0	1.00	0.01	375-22-4	N/A	N/A
2. Perfluoro-n-pentanoic acid	3669	PFPeA0516	0.02	1.00	0.004	50.0	1.00	0.01	2706-90-3	N/A	N/A
3. Perfluorohexanoic acid	99199	030617	0.02	1.00	0.004	50.3	1.01	0.01	307-24-4	N/A	N/A
4. Perfluoroheptanoic acid	99197	030517	0.02	1.00	0.004	50.1	1.00	0.01	375-85-9	N/A	N/A
5. Perfluorooctanoic acid	99202	030617	0.02	1.00	0.004	50.2	1.00	0.01	335-67-1	N/A	ipr-rat 189mg/kg
6. Perfluorononanoic acid	99200	030617	0.02	1.00	0.004	50.1	1.00	0.01	375-95-1	N/A	N/A
7. Perfluorodecanoic acid	99195	030617	0.02	1.00	0.004	50.1	1.00	0.01	335-76-2	N/A	ori-rat 57mg/kg
8. Perfluoroundecanoic acid	99205	030617	0.02	1.00	0.004	50.1	1.00	0.01	2058-94-8	N/A	N/A
9. Tricosafuorododecanoic acid	99196	030617	0.02	1.00	0.004	50.1	1.00	0.01	307-55-1	N/A	N/A
10. Perfluorotridecanoic acid	99204	030617	0.02	1.00	0.004	50.1	1.00	0.01	72629-94-8	N/A	N/A
11. Perfluorotetradecanoic acid	99203	030617	0.02	1.00	0.004	50.1	1.00	0.01	376-06-7	N/A	N/A
12. Perfluoro-1-octanesulfonamide	3677	FOSA0916I	0.02	1.00	0.004	50.0	1.00	0.01	754-91-6	N/A	N/A
13. N-Methylperfluoro-1-octanesulfonamidoacetic acid	3667	NMeFOSA0117	0.02	1.00	0.004	50.0	1.00	0.01	2355-31-9	N/A	N/A
14. N-Ethylperfluoro-1-octanesulfonamidoacetic acid	3664	NEFOSA0117	0.02	1.00	0.004	50.0	1.00	0.01	2991-50-6	N/A	N/A
15. Perfluorobutanesulfonic acid	99194	031017	0.02	1.00	0.004	50.7	1.01	0.01	375-73-5	N/A	N/A
16. Perfluoro-1-pentanesulfonic acid	3956	LPFPeS0117	0.0214	1.07	0.004	46.9	1.00	0.01	00-00-0	N/A	N/A
17. Perfluorohexanesulfonic acid (branched)	99198	030617	0.02	1.00	0.004	50.6	1.01	0.01	3871-99-6	N/A	N/A
18. Perfluoro-1-heptanesulfonic acid	3672	LPFHps1016	0.021	1.05	0.004	47.6	1.00	0.01	375-92-8	N/A	N/A
19. Heptadecafluorooctanesulfonic acid (branched)	99201	030617	0.02	1.00	0.004	50.2	1.00	0.01	1763-23-1	N/A	N/A
20. Perfluoro-1-nonanesulfonic acid	3957	LPFNS0516	0.021	1.05	0.004	48.0	1.01	0.01	98789-57-2	N/A	N/A
21. Perfluoro-1-decanesulfonic acid	3671	LPFDS0217	0.021	1.05	0.004	48.2	1.01	0.01	2806-15-7	N/A	N/A
22. 1H,1H,2H,2H-Perfluorohexane sulfonic acid	3955	42FTS1216	0.0214	1.07	0.004	46.7	1.00	0.01	00-00-0	N/A	N/A
23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid	3661	62FTS0616	0.021	1.05	0.004	47.4	1.00	0.01	27619-97-2	N/A	N/A
24. 1H,1H,2H,2H-Perfluorodecane sulfonic acid	3662	82FTS1216	0.021	1.05	0.004	47.9	1.01	0.01	39108-34-4	N/A	N/A

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



It can be done

BDO Id: 170629-02

Reagent Receipt Report

Approved:

Name: Mass-labelled PFAS Extraction Stand **Received:** 6/29/2017
Vendor: Wellington Laboratories **Custodian:** Thorn, Jonathan
Catalogue No: MPFAC-24ES **Expires:** 5/19/2022
Type: Solution **Consumed:** _____
Lot No: MPFAC24ES1016 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea mL **% Moisture:** 0
Description: Mass-labelled PFAS Extraction Standard Solution

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
N-ethyl-d5-perfluoro-1-octanesulfona	BDO-2126	1.0000	100.00	--	--	<input type="checkbox"/>			
N-methyl-d3-perfluoro-1-octanesulfo	BDO-2125	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-[13C8]octanesulfonamid	BDO-2225	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4,5,6,7-13C7]unde	BDO-2223	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4,5,6-13C6]decan	BDO-2222	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic	BDO-2217	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4-13C4]butanoic a	BDO-2105	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2,3,4-13C4]hepetanoic	BDO-2218	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]dodecanoic ac	BDO-2112	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]tetradecanoic	BDO-2224	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[13C5]pentanoic acid	BDO-2216	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[13C8]octanoic acid	BDO-2219	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[13C9]nonanoic acid	BDO-2221	1.0000	100.00	--	--	<input type="checkbox"/>			
Sodium 1H,1H,2H,2H-perfluoro-1-[1,	BDO-2220	0.9580	100.00	--	--	<input type="checkbox"/>			
sodium 1H,1H,2H,2H-perfluoro-1-[1,	BDO-2229	0.9350	100.00	--	--	<input type="checkbox"/>			
sodium 1H,1H,2H,2H-perfluoro-1-[1,	BDO-2230	0.9490	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-[1,2,3-13C3]hexa	BDO-2227	0.9460	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-[13C8]octanesulf	BDO-2228	0.9570	100.00	--	--	<input type="checkbox"/>			
Sodium perfluoro-1-[2,3,4-13C3]buta	BDO-2226	0.9290	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 19

Notes:

Approved by: _____ Approved on: _____
 Authorized by: _____ Authorized on: _____

170629-02



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-24ES

**Mass-Labelled Per- and Poly-fluoroalkyl Substance
Extraction Standard Solution**

PRODUCT CODE: MPFAC-24ES
LOT NUMBER: MPFAC24ES1016
SOLVENT(S): Methanol / Isopropanol (2%) / Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 10/20/2016
LAST TESTED: (mm/dd/yyyy) 05/19/2017
EXPIRY DATE: (mm/dd/yyyy) 05/19/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DESCRIPTION:

MPFAC-24ES is a solution/mixture of ten mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4 - C_{12} and C_{14}), three mass-labelled (^{13}C) perfluoroalkylsulfonates (C_4 , C_6 , and C_8), three mass-labelled (^{13}C) telomer sulfonates (4:2, 6:2, and 8:2), two mass-labelled (^2H) perfluorooctanesulfonamidoacetic acids, and perfluoro-1- $^{13}\text{C}_8$ octanesulfonamide. The components and their concentrations are given in Table A.

The individual mass-labelled perfluoroalkylcarboxylic acids, mass-labelled perfluoroalkylsulfonates, mass-labelled telomer sulfonates, and perfluoro-1- $^{13}\text{C}_8$ octanesulfonamide all have chemical purities of >98% and isotopic purities of $\geq 99\%$. The individual mass-labelled perfluorooctanesulfonamidoacetic acids all have chemical purities of >98% and isotopic purities of $\geq 98\%$.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture

Figure 1: LC/MS Data (SIR)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. ~~The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.~~

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: MPFAC-24ES; Components and Concentrations
(ng/ml, \pm 5% in Methanol / Isopropanol (2%) / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Perfluoro-n-[$^{13}\text{C}_4$]butanoic acid	1304-PFBA MPFBA	1000		A
Perfluoro-n-[$^{13}\text{C}_5$]pentanoic acid	1305-PFPeA M5PFPeA	1000		B
Perfluoro-n-[1,2,3,4,6- $^{13}\text{C}_6$]hexanoic acid	1305-PFHxA M5PFHxA	1000		E
Perfluoro-n-[1,2,3,4- $^{13}\text{C}_6$]heptanoic acid	1304-PFHpA M4PFHpA	1000		F
Perfluoro-n-[$^{13}\text{C}_8$]octanoic acid	1308-PFOA M8PFOA	1000		I
Perfluoro-n-[$^{13}\text{C}_9$]nonanoic acid	1309-PFNA M9PFNA	1000		J
Perfluoro-n-[1,2,3,4,5,6- $^{13}\text{C}_{10}$]decanoic acid	1306-PFDA M6PFDA	1000		M
Perfluoro-n-[1,2,3,4,5,6,7- $^{13}\text{C}_{11}$]undecanoic acid	1307-PFLuA M7PFUdA	1000		Q
Perfluoro-n-[1,2- $^{13}\text{C}_{12}$]dodecanoic acid	1302-PFDdA MPFDdA	1000		R
Perfluoro-n-[1,2- $^{13}\text{C}_{14}$]tetradecanoic acid	1302-PFTeDA M2PFTeDA	1000		S
Perfluoro-1-[$^{13}\text{C}_8$]octanesulfonamide	① 1308-PFOA M8FOSA	1000		N
N-methyl- d_3 -perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	1000		O d3-MeFOSAA
N-ethyl- d_5 -perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	1000		P d5-EtFOSAA
Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Sodium perfluoro-1-[2,3,4- $^{13}\text{C}_3$]butanesulfonate	1303 - M3PFBS	1000	929	C
Sodium perfluoro-1-[1,2,3- $^{13}\text{C}_3$]hexanesulfonate	1303 - M3PFHxS	1000	946	G
Sodium perfluoro-1-[$^{13}\text{C}_8$]octanesulfonate	1308 - M8PFOS	1000	957	K
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$]hexanesulfonate	1302 - M2-4:2FTS	1000	935	D
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$]octanesulfonate	1302 - M2-6:2FTS	1000	949	H
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$]decanesulfonate	1302 - M2-8:2FTS	1000	958	L

① S/B 1308-FOSA JMT 7/3/17

Certified By: 
B.G. Chittim, General Manager

Date: 05/24/2017
(mm/dd/yyyy)

BATTELLE

It can be done

BDO Id: 170629-03

Reagent Receipt Report

Approved:

Name: Mass-labeled PFAS Injection Standar **Received:** 6/29/2017
Vendor: Wellington Laboratories **Custodian:** Thorn, Jonathan
Catalogue No: MPFAC-C-IS **Expires:** 5/2/2022
Type: Solution **Consumed:** _____
Lot No: MPFACCIS0516 **Stored In:** Sample Preparation - C0103
Quantity: 2 ea mL **% Moisture:** 0
Description: Mass-labeled PFAS Injection Standards Solution

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
Perfluoro-1-[1,2,3,4-13C4]octanesulf	BDO-2121	1.9100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]decanoic acid	BDO-2110	2.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[1,2-13C2]octanoic acid	BDO-2107	2.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-n-[2,3,4-13C3]butanoic Aci	BDO-2231	2.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 4

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

170629-03

**WELLINGTON**
LABORATORIES**CERTIFICATE OF ANALYSIS**
DOCUMENTATION**MPFAC-C-IS****Mass-Labelled Perfluorinated
Compound Injection Standards Solution**

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0516
SOLVENT(S): Methanol / Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 05/24/2016
LAST TESTED: (mm/dd/yyyy) 05/02/2017
EXPIRY DATE: (mm/dd/yyyy) 05/02/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual mass-labelled perfluoroalkylcarboxylic acids and mass-labelled perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be $\pm 5\%$ RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: MPFAC-C-IS; Components and Concentrations (ng/ml; \pm 5% in Methanol / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)	Peak Assignment in Figure 1
Perfluoro-n-[2,3,4- $^{13}\text{C}_3$]butanoic acid	13C3-PFBA M3PFBA	2000	A
Perfluoro-n-[1,2- $^{13}\text{C}_2$]octanoic acid	13C2-PFOA M2PFOA	2000	B
Perfluoro-n-[1,2- $^{13}\text{C}_2$]decanoic acid	13C2-PFDA MPFDA	2000	D
Sodium perfluoro-1-[1,2,3,4- $^{13}\text{C}_4$]octanesulfonate	13C4-PFOS	2000	C

Certified By: 
B.G. Chittim, General Manager

Date: 05/04/2017
(mm/dd/yyyy)

BATTELLE

It can be done

BDO Id: 171025-01

Reagent Receipt Report

Approved:

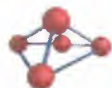
Name: PFOA - 2nd Source Received: 10/25/2017
 Vendor: ABSOLUTE STANDARDS Custodian: Schumitz, Matt
 Catalogue No: 99207 Expires: 3/22/2022
 Type: Solution Consumed: _____
 Lot No: 032217 Stored In: LC Laboratory - F0111
 Quantity: 5 ea ml % Moisture: _____
 Description: PFOA-DOD

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
(Na) 1H,1H,2H,2H-Perfluorodecane	39108-34-4	1.0100	100.00	--	--	<input type="checkbox"/>		
(Na) 1H,1H,2H,2H-Perfluorohexane	BDO-2205	1.0000	100.00	--	--	<input type="checkbox"/>		
(Na) 1H,1H,2H,2H-Perfluorooctane s	27619-97-2	1.0000	100.00	--	--	<input type="checkbox"/>		
(Na) Perfluoro-1-decanesulfonate	2806-15-7	1.0100	100.00	--	--	<input type="checkbox"/>		
(NA) Perfluoro-1-heptanesulfonate	375-92-8	1.0000	100.00	--	--	<input type="checkbox"/>		
(Na) Perfluoro-1-nonanesulfonate	98789-57-2	1.0100	100.00	--	--	<input type="checkbox"/>		
N-ethylperfluoro-octanesulfonamidoa	2991-50-6	1.0000	100.00	--	--	<input type="checkbox"/>		
N-methylperfluoro-1-octanesulfonami	2355-31-9	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-1-butanefulfonic Acid	375-73-5	1.0100	100.00	--	--	<input type="checkbox"/>		
Perfluoro-1-hexanesulfonic Acid	355-46-4	1.0100	100.00	--	--	<input type="checkbox"/>		
Perfluoro-1-octanesulfonamide	754-91-6	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-1-octanesulphonic Acid	1763-23-1	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-butanoic Acid	375-22-4	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-decanoic Acid	335-76-2	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-dodecanoic acid	307-55-1	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-heptanoic Acid	375-85-9	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-hexanoic acid	307-24-4	1.0100	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-octanoic Acid	335-67-1	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluorononanoic Acid	375-95-1	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-pentanoic acid	2706-90-3	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-tetradecanoic acid	376-06-7	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-tridecanoic acid	72629-94-8	1.0000	100.00	--	--	<input type="checkbox"/>		
Perfluoro-n-undecanoic acid	2058-94-8	1.0000	100.00	--	--	<input type="checkbox"/>		
Sodium perfluoro-1-pentanesulfonat	BDO-2114	1.0000	100.00	--	--	<input type="checkbox"/>		

Total Analytes: 24

Notes:

Approved by: _____ Approved on: _____
 Authorized by: _____ Authorized on: _____



Analytical Reference Material ARM



CERTIFIED WEIGHT REPORT

Part Number: 99207
Lot Number: 101717
Description: PFOA - DOD
24 components
Expiration Date: 101722
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 1.0
NIST Test ID#: 2506734D

Solvent(s):
Methanol (1 mM KOH) 031317 (98%)
2-Propanol 23214 (2%)

5E-05 Balance Uncertainty
50.0 0.007 Flask Uncertainty

<i>Mario Luis</i>		101717
Formulated By:	Mario Luis	DATE
<i>Pedro L. Rentas</i>		101717
Reviewed By:	Pedro L. Rentas	DATE

Volume(s) shown below were combined and diluted to (mL):
Note: All assigned values are anion concentrations.

Expanded SDS Information
(Solvent Safety Info. On Attached pg.)

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Perfluoro-n-butyric acid	3670	PFBA0516	0.02	1.00	0.004	50.0	1.00	0.01	375-22-4	N/A	N/A
2. Perfluoro-n-pentanoic acid	3669	PFPeA0617	0.02	1.00	0.004	50.0	1.00	0.01	2706-90-3	N/A	N/A
3. Perfluorohexanoic acid	99199	030617	0.02	1.00	0.004	50.3	1.01	0.01	307-24-4	N/A	N/A
4. Perfluoroheptanoic acid	99197	030517	0.02	1.00	0.004	50.1	1.00	0.01	375-85-9	N/A	N/A
5. Perfluorooctanoic acid	99202	030617	0.02	1.00	0.004	50.2	1.00	0.01	335-67-1	N/A	ipr-rat 189mg/kg
6. Perfluorononanoic acid	99200	030617	0.02	1.00	0.004	50.1	1.00	0.01	375-95-1	N/A	N/A
7. Perfluorodecanoic acid	99195	030617	0.02	1.00	0.004	50.1	1.00	0.01	335-76-2	N/A	ori-rat 57mg/kg
8. Perfluoroundecanoic acid	99205	030617	0.02	1.00	0.004	50.1	1.00	0.01	2058-94-8	N/A	N/A
9. Tricosafuorododecanoic acid	99196	030617	0.02	1.00	0.004	50.1	1.00	0.01	307-55-1	N/A	N/A
10. Perfluorotridecanoic acid	99204	030617	0.02	1.00	0.004	50.1	1.00	0.01	72629-94-8	N/A	N/A
11. Perfluorotetradecanoic acid	99203	030617	0.02	1.00	0.004	50.1	1.00	0.01	376-06-7	N/A	N/A
12. Perfluoro-1-octanesulfonamide	3677	FOSAC0916I	0.02	1.00	0.004	50.0	1.00	0.01	754-91-6	N/A	N/A
13. N-Methylperfluoro-1-octanesulfonamidoacetic acid	3667	NMeFOSA00117	0.02	1.00	0.004	50.0	1.00	0.01	2355-31-9	N/A	N/A
14. N-Ethylperfluoro-1-octanesulfonamidoacetic acid	3664	NEtFOSA00117	0.02	1.00	0.004	50.0	1.00	0.01	2991-50-6	N/A	N/A
15. Perfluorobutanesulfonic acid	99194	031017	0.02	1.00	0.004	50.7	1.01	0.01	375-73-5	N/A	N/A
16. Perfluoro-1-pentanesulfonic acid	3956	LPFPeS0117	0.0214	1.07	0.004	46.9	1.00	0.01	630402-22-1	N/A	N/A
17. Perfluorohexanesulfonic acid (branched)	99198	030617	0.02	1.00	0.004	50.6	1.01	0.01	3871-99-6	N/A	N/A
18. Perfluoro-1-heptanesulfonic acid	3672	LPFHps0817	0.021	1.05	0.004	47.6	1.00	0.01	375-92-8	N/A	N/A
19. Heptadecafluorooctanesulfonic acid (branched)	99201	030617	0.02	1.00	0.004	50.2	1.00	0.01	1763-23-1	N/A	N/A
20. Perfluoro-1-nonanesulfonic acid	3957	LPFNS0516	0.021	1.05	0.004	48.0	1.01	0.01	98789-57-2	N/A	N/A
21. Perfluoro-1-decanesulfonic acid	3671	LPFDS0217	0.021	1.05	0.004	48.2	1.01	0.01	2806-15-7	N/A	N/A
22. 1H,1H,2H,2H-Perfluorohexane sulfonic acid	3955	42FTS1216	0.0214	1.07	0.004	46.7	1.00	0.01	00-00-0	N/A	N/A
23. 1H,1H,2H,2H-Perfluorooctane sulfonic acid	3661	62FTS0616	0.021	1.05	0.004	47.4	1.00	0.01	27619-97-2	N/A	N/A
24. 1H,1H,2H,2H-Perfluorodecane sulfonic acid	3662	82FTS1216	0.021	1.05	0.004	47.9	1.01	0.01	39108-34-4	N/A	N/A

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

171025-02

BATTELLE

It can be done

BDO Id: 161230-01**Reagent Receipt Report**Approved:

Name: br-PFHxSK **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: br-PFHxSK **Expires:** 7/3/2020
Type: Solution **Consumed:** _____
Lot No: br-PFHxSK0615 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: br-PFHxSK

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
br-PFHxSK	BDO-2170	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

Notes:**Analyte:****Comment:**

1 br-PFHxSK	50 +/- 2.5ug/ml (total potassium salt)45.5+- 2.3 ug/ml (total PFHxS anion)
-------------	--

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

161230-01



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

br-PFHxSK

**Potassium Perfluorohexanesulfonate
Solution/Mixture of Linear and
Branched Isomers**

<u>PRODUCT CODE:</u>	br-PFHxSK
<u>LOT NUMBER:</u>	brPFHxSK0615
<u>CONCENTRATION:</u>	50.0 ± 2.5 µg/ml (total potassium salt) 45.5 ± 2.3 µg/ml (total PFHxS anion)
<u>SOLVENT(S):</u>	Methanol
<u>DATE PREPARED:</u> (mm/dd/yyyy)	06/29/2015
<u>LAST TESTED:</u> (mm/dd/yyyy)	07/03/2015
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	07/03/2020
<u>RECOMMENDED STORAGE:</u>	Store ampoule in a cool, dark place

DESCRIPTION:

The chemical purity has been determined to be ≥98% perfluorohexanesulfonate linear and branched isomers. The full name, structure and percent composition for each of the identified isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by ¹⁹F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.5% of perfluoro-1-pentanesulfonate and ~ 0.2% of perfluoro-1-octanesulfonate.
- CAS#: 3871-99-6 (for linear isomer; potassium salt).

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BATTELLE

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BDO Id: 161230-02

Reagent Receipt Report

Approved:

Name: br-PFOSK **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: br-PFOSK **Expires:** 10/14/2020
Type: Solution **Consumed:** _____
Lot No: br-PFOSK1015 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: br-PFOSK

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
br-PFOSK	BDO-2171	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

Notes:

Analyte:

Comment:

1 br-PFOSK	50 +/- 2.5 ug/ml (total potassium salt)46.4+- 2.3 ug/ml (total PFOS anion)
------------	--

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

161230-02

br-PFOSK

**Potassium Perfluorooctanesulfonate
Solution/Mixture of Linear and
Branched Isomers**

<u>PRODUCT CODE:</u>	br-PFOSK
<u>LOT NUMBER:</u>	brPFOSK1015
<u>CONCENTRATION:</u>	50 ± 2.5 µg/ml (total potassium salt) 46.4 ± 2.3 µg/ml (total PFOS anion)
<u>SOLVENT(S):</u>	Methanol
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/13/2015
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/14/2015
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/14/2020
<u>RECOMMENDED STORAGE:</u>	Store ampoule in a cool, dark place

DESCRIPTION:

The chemical purity has been determined to be ≥98% perfluorooctanesulfonate linear and branched isomers. The full name, structure and percent composition for each of the isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by ¹⁹F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- A 5-point calibration curve was generated using linear PFOS (potassium salt) and mass-labelled PFOS as an internal standard to enable quantitation of br-PFOSK using isotopic dilution.
- CAS#: 2795-39-3 (for linear isomer; potassium salt).

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It can be done

BDO Id: 161230-04**Reagent Receipt Report**Approved:

Name: NaP3MHpS Received: 12/30/2016
Vendor: Wellington Laboratories Custodian: Schumitz, Matt
Catalogue No: NaP3MHpS Expires: 6/10/2020
Type: Solution Consumed: _____
Lot No: NaP3MHpS0615 Stored In: Sample Preparation - C0103
Quantity: 1 ea ml % Moisture: _____
Description: NaP3MHpS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
NaP3MFpS	BDO-2174	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

Notes:**Analyte:****Comment:**

1 NaP3MFpS 50.+ 2.5 ug/ml (Na salt) 47.8+ 2.4 ug/ml (anion)

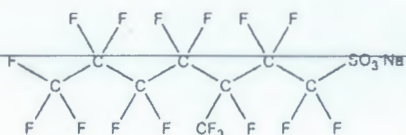
Approved by: _____ Approved on: _____
Authorized by: _____ Authorized on: _____

161230-04


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: NaP3MHpS **LOT NUMBER:** NaP3MHpS0615
COMPOUND: Sodium perfluoro-3-methylheptanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₈F₁₇SO₃Na **MOLECULAR WEIGHT:** 522.11
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.8 ± 2.4 µg/ml (NaP3MHpS anion)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 06/10/2015
EXPIRY DATE: (mm/dd/yyyy) 06/10/2020
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Certified By:

 B.G. Chittim

Date: 06/11/2015
 (mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 161230-05

Reagent Receipt Report

Approved:

Name: NaP6MHpS **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: NaP6MHpS **Expires:** 1/23/2020
Type: Solution **Consumed:** _____
Lot No: NaP6MHpS0115 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: NaP6MHpS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
NaP6MHpS	BDO-2175	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

Notes:

Analyte:	Comment:
1 NaP6MHpS	50.+ - 2.5 ug/ml (Na salt) 47.8+ - 2.4 ug/ml (anion)

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

161230-05


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: NaP6MHpS **LOT NUMBER:** NaP6MHpS0115
COMPOUND: Sodium perfluoro-6-methylheptanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: $C_8F_{17}SO_3Na$ **MOLECULAR WEIGHT:** 522.11
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.8 ± 2.4 µg/ml (NaP6MHpS anion)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/23/2015
EXPIRY DATE: (mm/dd/yyyy) 01/23/2020
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Certified By:

 B.G. Chittim

 Date: 03/27/2015
(mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 161230-06**Reagent Receipt Report**Approved:

Name: ipPFNS **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: ipPFNS **Expires:** 9/23/2020
Type: Solution **Consumed:** _____
Lot No: ipPFNS0912 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: ipPFNS

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
ipPFNS	BDO-2176	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5 1

Total Analytes: 1

Notes:

Analyte:	Comment:
1 ipPFNS	50.+ - 2.5 ug/ml (Na salt) 48.0+ - 2.4 ug/ml (PFNS anion)

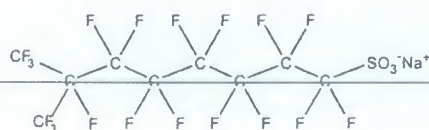
Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

161230-06


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: ipPFNS **LOT NUMBER:** ipPFNS0912
COMPOUND: Sodium perfluoro-7-methyloctanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₉F₁₉SO₃Na **MOLECULAR WEIGHT:** 572.12
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 48.0 ± 2.4 µg/ml (PFNS anion)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 09/23/2015
EXPIRY DATE: (mm/dd/yyyy) 09/23/2020
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Certified By:

 B.G. Chittim

 Date: 10/02/2015
 (mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 161230-07**Reagent Receipt Report**Approved:

Name: T-PFOA **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: T-PFOA **Expires:** 2/12/2021
Type: Solution **Consumed:** _____
Lot No: T-PFOA0216 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: T-PFOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
T-PFOA	BDO-2177	50.0000	97.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

161230-07



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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: T-PFOA **LOT NUMBER:** TPFOA0216
COMPOUND: Technical Ammonium Perfluorooctanoate
STRUCTURE: (see Table A) **CAS #:** 95328-99-7
 (for linear ammonium perfluorooctanoate)

MOLECULAR FORMULA: $C_8F_{15}O_2NH_4$
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ (gravimetric)
CHEMICAL PURITY: Technical material
SOLVENT(S): Methanol/Water (<1%)
LAST TESTED: (mm/dd/yyyy) 02/12/2016
EXPIRY DATE: (mm/dd/yyyy) 02/12/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

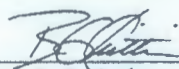
Table A: Isomeric Components and Percent Composition
 Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS Data (SIR)
 Figure 3: LC/MS/MS Data (Selected MRM Transitions)
 Figure 4: LC/MS Elution Profile of the Perfluorooctanoic Acid Isomers

ADDITIONAL INFORMATION:

- See page 2 for further details.
- This technical mixture is >97% ammonium perfluorooctanoate (branched and linear isomers). The remaining 3% consists of common impurities such as the perfluoroheptanoic and perfluorohexanoic acids.
- It is recommended that this solution be used as a *qualitative or semi-quantitative standard only*.
- Contains 4 mole eq. of NaOH to prevent conversion of any carboxylic acids to their corresponding methyl esters.
- The molecular weight of perfluoro-n-octanoic acid is 414.07 g/mol.

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Certified By: _____


B.G. Chittim

Date: 02/16/2016
(mm/dd/yyyy)

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BATTELLE

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BDO Id: 161230-08**Reagent Receipt Report**Approved:

Name: P3MHPA **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: P3MHPA **Expires:** 6/10/2020
Type: Solution **Consumed:** _____
Lot No: P3MHPA **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: P3MHPA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
P3MHPA	BDO-2178	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

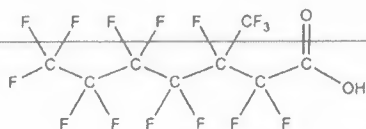
16/230-08



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: P3MHPA **LOT NUMBER:** P3MHPA0615
COMPOUND: Perfluoro-3-methylheptanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: $C_8HF_{15}O_2$ **MOLECULAR WEIGHT:** 414.07
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 06/10/2015
EXPIRY DATE: (mm/dd/yyyy) 06/10/2020
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

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Certified By:


 B.G. Chittim

Date: 06/17/2015
 (mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 161230-09

Reagent Receipt Report

Approved:

Name: P4MOA **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: P4MOA **Expires:** 6/10/2020
Type: Solution **Consumed:** _____
Lot No: P4MOA0615 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: P4MOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
P4MOA	BDO-2179	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

BATTELLE

It can be done

BDO Id: 161230-10

Reagent Receipt Report

Approved:

Name: ipPFNA Received: 12/30/2016
 Vendor: Wellington Laboratories Custodian: Schumitz, Matt
 Catalogue No: ipPFNA Expires: 5/31/2021
 Type: Solution Consumed: _____
 Lot No: ipPFNA Stored In: Sample Preparation - C0103
 Quantity: 1 ea ml % Moisture: _____
 Description: ipPFNA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
ipPFNA	BDO-2180	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ Approved on: _____
 Authorized by: _____ Authorized on: _____

161230-10


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: ipPFNA **LOT NUMBER:** ipPFNA0516
COMPOUND: Perfluoro-7-methyloctanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₉H₉F₁₇O₂ **MOLECULAR WEIGHT:** 464.08
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98% Water (<1%)
LAST TESTED: (mm/dd/yyyy) 05/31/2016
EXPIRY DATE: (mm/dd/yyyy) 05/31/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

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Certified By:

 B.G. Chittim

 Date: 06/06/2016
 (mm/dd/yyyy)

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BATTELLE

It can be done

BDO Id: 161230-11**Reagent Receipt Report**Approved:

Name: P355TMHxA **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: P355TMHxA **Expires:** 11/27/2019
Type: Solution **Consumed:** _____
Lot No: P355TMHxA1114 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: P355TMHxA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
P355TMHxA	BDO-2181	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____

BATTELLE

It can be done

BDO Id: 161230-12

Reagent Receipt Report

Approved:

Name: P37DMOA **Received:** 12/30/2016
Vendor: Wellington Laboratories **Custodian:** Schumitz, Matt
Catalogue No: P37DMOA **Expires:** 9/24/2019
Type: Solution **Consumed:** _____
Lot No: P37DMOA0914 **Stored In:** Sample Preparation - C0103
Quantity: 1 ea ml **% Moisture:** _____
Description: P37DMOA

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert	Cert Val:	Lower Limit:	Upper Limit:
P37DMOA	BDO-2182	50.0000	98.00	--	--	<input type="checkbox"/>	50	47.5	52.5

Total Analytes: 1

Notes:

Approved by: _____ **Approved on:** _____
Authorized by: _____ **Authorized on:** _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU04

Description: PFAS - DoD Calibration L1

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Balance ID: _____

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU04

Description: PFAS - DoD Calibration L1

Stock Id: JR03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	50	0.01	---	---	1	10	0.00003
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	50	0.01	---	---	1	10	0.00003
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	50	0.01	---	---	1	10	0.00003
(Na) Perfluoro-1-decanesulfonate	50	0.01	---	---	1	10	0.00003
(NA) Perfluoro-1-heptanesulfonate	50	0.01	---	---	1	10	0.00003
(Na) Perfluoro-1-nonanesulfonate	50	0.01	---	---	1	10	0.00003
N-ethylperfluoro-octanesulfonamidoacetic acid	50	0.01	---	---	1	10	0.00003
N-methylperfluoro-1-octanesulfonamidoacetic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-1-butanefulfonic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-1-hexanesulfonic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-1-octanesulfonamide	50	0.01	---	---	1	10	0.00003
Perfluoro-1-octanesulphonic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-butanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-decanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-dodecanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-heptanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-hexanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-octanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluorononanoic Acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-pentanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-tetradecanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-tridecanoic acid	50	0.01	---	---	1	10	0.00003
Perfluoro-n-undecanoic acid	50	0.01	---	---	1	10	0.00003
Sodium perfluoro-1-pentanesulfonate	50	0.01	---	---	1	10	0.00003

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL X 1

Vials

Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____

Date: _____



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU04**

Description: PFAS - DoD Calibration L1

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00003
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00003
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00003
(Na) Perfluoro-1-decanesulfonate	.00003
(NA) Perfluoro-1-heptanesulfonate	.00003
(Na) Perfluoro-1-nonanesulfonate	.00003
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00003
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00003
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanesulfonic Acid	.00003
Perfluoro-1-hexanesulfonic Acid	.00003
Perfluoro-1-octanesulfonamide	.00003
Perfluoro-1-octanesulphonic Acid	.00003
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL X

1

Vials

Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____

Date: _____



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU04**

Description: PFAS - DoD Calibration L1

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00003
Perfluoro-n-decanoic Acid	.00003
Perfluoro-n-dodecanoic acid	.00003
Perfluoro-n-heptanoic Acid	.00003
Perfluoro-n-hexanoic acid	.00003
Perfluoro-n-octanoic Acid	.00003
Perfluorononanoic Acid	.00003
Perfluoro-n-pentanoic acid	.00003
Perfluoro-n-tetradecanoic acid	.00003
Perfluoro-n-tridecanoic acid	.00003
Perfluoro-n-undecanoic acid	.00003
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00003

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	D1075429B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU05

Description: PFAS - DoD Calibration L2

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	100 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Balance ID: _____

Comment:

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU05**

Description: PFAS - DoD Calibration L2

Stock Id: **JR03**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	100	0.01	---	---	1	10	0.00005
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	100	0.01	---	---	1	10	0.00005
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	100	0.01	---	---	1	10	0.00005
(Na) Perfluoro-1-decanesulfonate	100	0.01	---	---	1	10	0.00005
(NA) Perfluoro-1-heptanesulfonate	100	0.01	---	---	1	10	0.00005
(Na) Perfluoro-1-nonanesulfonate	100	0.01	---	---	1	10	0.00005
N-ethylperfluoro-octanesulfonamidoacetic acid	100	0.01	---	---	1	10	0.00005
N-methylperfluoro-1-octanesulfonamidoacetic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-1-butanefulfonic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-1-hexanesulfonic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-1-octanesulfonamide	100	0.01	---	---	1	10	0.00005
Perfluoro-1-octanesulphonic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-butanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-decanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-dodecanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-heptanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-hexanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-octanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluorononanoic Acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-pentanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-tetradecanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-tridecanoic acid	100	0.01	---	---	1	10	0.00005
Perfluoro-n-undecanoic acid	100	0.01	---	---	1	10	0.00005
Sodium perfluoro-1-pentanesulfonate	100	0.01	---	---	1	10	0.00005

Stock Id: **JR04**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL X 1

Vials Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____

Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU05

Description: PFAS - DoD Calibration L2

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00005
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00005
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00005
(Na) Perfluoro-1-decanesulfonate	.00005
(NA) Perfluoro-1-heptanesulfonate	.00005
(Na) Perfluoro-1-nonanesulfonate	.00005
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00005
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00005
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-buthanesulfonic Acid	.00005
Perfluoro-1-hexanesulfonic Acid	.00005
Perfluoro-1-octanesulfonamide	.00005
Perfluoro-1-octanesulphonic Acid	.00005
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU05

Description: PFAS - DoD Calibration L2

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00005
Perfluoro-n-decanoic Acid	.00005
Perfluoro-n-dodecanoic acid	.00005
Perfluoro-n-heptanoic Acid	.00005
Perfluoro-n-hexanoic acid	.00005
Perfluoro-n-octanoic Acid	.00005
Perfluorononanoic Acid	.00005
Perfluoro-n-pentanoic acid	.00005
Perfluoro-n-tetradecanoic acid	.00005
Perfluoro-n-tridecanoic acid	.00005
Perfluoro-n-undecanoic acid	.00005
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00005

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	D1075429B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU06

Description: PFAS - DoD Calibration L3

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	200 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU06

Description: PFAS - DoD Calibration L3

Stock Id: JR03

Chemical Name	Stock Amount	Initial Conc.	Density	Purity	Conv.	Final Vol	Concentration
	uL	(ug/mL)	(g/mL)		Factor	mL	(ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	200	0.01	---	---	1	10	0.00010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	200	0.01	---	---	1	10	0.00010
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	200	0.01	---	---	1	10	0.00010
(Na) Perfluoro-1-decanesulfonate	200	0.01	---	---	1	10	0.00010
(NA) Perfluoro-1-heptanesulfonate	200	0.01	---	---	1	10	0.00010
(Na) Perfluoro-1-nonanesulfonate	200	0.01	---	---	1	10	0.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	200	0.01	---	---	1	10	0.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-1-butanefulfonic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-1-hexanesulfonic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-1-octanesulfonamide	200	0.01	---	---	1	10	0.00010
Perfluoro-1-octanesulphonic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-butanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-decanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-dodecanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-heptanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-hexanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-octanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluorononanoic Acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-pentanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-tetradecanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-tridecanoic acid	200	0.01	---	---	1	10	0.00010
Perfluoro-n-undecanoic acid	200	0.01	---	---	1	10	0.00010
Sodium perfluoro-1-pentanesulfonate	200	0.01	---	---	1	10	0.00010

Stock Id: JR04

Chemical Name	Stock Amount	Initial Conc.	Density	Purity	Conv.	Final Vol	Concentration
	uL	(ug/mL)	(g/mL)		Factor	mL	(ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL X 1

Vials Refrigerator/Freezer No:

LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____

Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU06

Description: PFAS - DoD Calibration L3

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00010
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00010
(Na) Perfluoro-1-decanesulfonate	.00010
(NA) Perfluoro-1-heptanesulfonate	.00010
(Na) Perfluoro-1-nonanesulfonate	.00010
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00010
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanesulfonic Acid	.00010
Perfluoro-1-hexanesulfonic Acid	.00010
Perfluoro-1-octanesulfonamide	.00010
Perfluoro-1-octanesulphonic Acid	.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU06

Description: PFAS - DoD Calibration L3

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00010
Perfluoro-n-decanoic Acid	.00010
Perfluoro-n-dodecanoic acid	.00010
Perfluoro-n-heptanoic Acid	.00010
Perfluoro-n-hexanoic acid	.00010
Perfluoro-n-octanoic Acid	.00010
Perfluorononanoic Acid	.00010
Perfluoro-n-pentanoic acid	.00010
Perfluoro-n-tetradecanoic acid	.00010
Perfluoro-n-tridecanoic acid	.00010
Perfluoro-n-undecanoic acid	.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00010

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	A1050931B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU07

Description: PFAS - DoD Calibration L4

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR03	PFAS -DoD Low ICAL Stock	Solution	~0	12/28/18	---	---	500 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment:

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU07

Description: PFAS - DoD Calibration L4

Stock Id: JR03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	0.01	---	---	1	10	0.00025
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	0.01	---	---	1	10	0.00025
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	0.01	---	---	1	10	0.00025
(Na) Perfluoro-1-decanesulfonate	500	0.01	---	---	1	10	0.00025
(NA) Perfluoro-1-heptanesulfonate	500	0.01	---	---	1	10	0.00025
(Na) Perfluoro-1-nonanesulfonate	500	0.01	---	---	1	10	0.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	500	0.01	---	---	1	10	0.00025
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-1-butanefulfonic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-1-hexanesulfonic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulfonamide	500	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulphonic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-butanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-decanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-dodecanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-heptanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-hexanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-octanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluorononanoic Acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-pentanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-tetradecanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-tridecanoic acid	500	0.01	---	---	1	10	0.00025
Perfluoro-n-undecanoic acid	500	0.01	---	---	1	10	0.00025
Sodium perfluoro-1-pentanesulfonate	500	0.01	---	---	1	10	0.00025

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU07**

Description: PFAS - DoD Calibration L4

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00025
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00025
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00025
(Na) Perfluoro-1-decanesulfonate	.00025
(NA) Perfluoro-1-heptanesulfonate	.00025
(Na) Perfluoro-1-nonanesulfonate	.00025
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00025
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00025
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanesulfonic Acid	.00025
Perfluoro-1-hexanesulfonic Acid	.00025
Perfluoro-1-octanesulfonamide	.00025
Perfluoro-1-octanesulphonic Acid	.00025
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU07

Description: PFAS - DoD Calibration L4

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00025
Perfluoro-n-decanoic Acid	.00025
Perfluoro-n-dodecanoic acid	.00025
Perfluoro-n-heptanoic Acid	.00025
Perfluoro-n-hexanoic acid	.00025
Perfluoro-n-octanoic Acid	.00025
Perfluorononanoic Acid	.00025
Perfluoro-n-pentanoic acid	.00025
Perfluoro-n-tetradecanoic acid	.00025
Perfluoro-n-tridecanoic acid	.00025
Perfluoro-n-undecanoic acid	.00025
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00025

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR03	Pipette	C0982448K
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU08

Description: PFAS - DoD Calibration L5

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	100 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU08

Description: PFAS - DoD Calibration L5

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Stock Id: JU03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	100	0.05	---	---	1	10	0.00051
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	100	0.05	---	---	1	10	0.00050
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	100	0.05	---	---	1	10	0.00050
(Na) Perfluoro-1-decanesulfonate	100	0.05	---	---	1	10	0.00051
(NA) Perfluoro-1-heptanesulfonate	100	0.05	---	---	1	10	0.00050
(Na) Perfluoro-1-nonanesulfonate	100	0.05	---	---	1	10	0.00051

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU08**

Description: PFAS - DoD Calibration L5

N-ethylperfluoro-octanesulfonamidoacetic acid	100	0.05	---	---	1	10	0.00050
N-methylperfluoro-1-octanesulfonamidoacetic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-1-butanefulfonic Acid	100	0.05	---	---	1	10	0.00051
Perfluoro-1-hexanesulfonic Acid	100	0.05	---	---	1	10	0.00051
Perfluoro-1-octanesulfonamide	100	0.05	---	---	1	10	0.00050
Perfluoro-1-octanesulphonic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-butanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-decanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-dodecanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-heptanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-hexanoic acid	100	0.05	---	---	1	10	0.00051
Perfluoro-n-octanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluorononanoic Acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-pentanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-tetradecanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-tridecanoic acid	100	0.05	---	---	1	10	0.00050
Perfluoro-n-undecanoic acid	100	0.05	---	---	1	10	0.00050
Sodium perfluoro-1-pentanesulfonate	100	0.05	---	---	1	10	0.00050

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00051
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00050
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00050
(Na) Perfluoro-1-decanesulfonate	.00051
(NA) Perfluoro-1-heptanesulfonate	.00050
(Na) Perfluoro-1-nonanesulfonate	.00051
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00050
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00050
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.00051
Perfluoro-1-hexanesulfonic Acid	.00051
Perfluoro-1-octanesulfonamide	.00050
Perfluoro-1-octanesulphonic Acid	.00050
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU08

Description: PFAS - DoD Calibration L5

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00050
Perfluoro-n-decanoic Acid	.00050
Perfluoro-n-dodecanoic acid	.00050
Perfluoro-n-heptanoic Acid	.00050
Perfluoro-n-hexanoic acid	.00051
Perfluoro-n-octanoic Acid	.00050
Perfluorononanoic Acid	.00050
Perfluoro-n-pentanoic acid	.00050
Perfluoro-n-tetradecanoic acid	.00050
Perfluoro-n-tridecanoic acid	.00050
Perfluoro-n-undecanoic acid	.00050
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00050

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU09

Description: PFAS - DoD Calibration L6

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	200 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Balance ID: _____

Comment:

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU09**

Description: PFAS - DoD Calibration L6

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Stock Id: JU03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	200	0.05	---	---	1	10	0.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-decanesulfonate	200	0.05	---	---	1	10	0.00101
(NA) Perfluoro-1-heptanesulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-nonanesulfonate	200	0.05	---	---	1	10	0.00101

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU09**

Description: PFAS - DoD Calibration L6

N-ethylperfluoro-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-1-butanefulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-hexanesulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-octanesulfonamide	200	0.05	---	---	1	10	0.00100
Perfluoro-1-octanesulphonic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-butanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-decanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-dodecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-heptanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-hexanoic acid	200	0.05	---	---	1	10	0.00101
Perfluoro-n-octanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluorononanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-pentanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tetradecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tridecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-undecanoic acid	200	0.05	---	---	1	10	0.00100
Sodium perfluoro-1-pentanesulfonate	200	0.05	---	---	1	10	0.00100

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00100
(Na) Perfluoro-1-decanesulfonate	.00101
(NA) Perfluoro-1-heptanesulfonate	.00100
(Na) Perfluoro-1-nonanesulfonate	.00101
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00100
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00100
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-]1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.00101
Perfluoro-1-hexanesulfonic Acid	.00101
Perfluoro-1-octanesulfonamide	.00100
Perfluoro-1-octanesulphonic Acid	.00100
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU09**

Description: PFAS - DoD Calibration L6

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00100
Perfluoro-n-decanoic Acid	.00100
Perfluoro-n-dodecanoic acid	.00100
Perfluoro-n-heptanoic Acid	.00100
Perfluoro-n-hexanoic acid	.00101
Perfluoro-n-octanoic Acid	.00100
Perfluorononanoic Acid	.00100
Perfluoro-n-pentanoic acid	.00100
Perfluoro-n-tetradecanoic acid	.00100
Perfluoro-n-tridecanoic acid	.00100
Perfluoro-n-undecanoic acid	.00100
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00100

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	A1050931B

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107		

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: **JU10**

Description: PFAS - DoD Calibration L7

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	500 uL	1	10	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU10

Description: PFAS - DoD Calibration L7

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Stock Id: JU03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	0.05	---	---	1	10	0.00253
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	0.05	---	---	1	10	0.00250
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	0.05	---	---	1	10	0.00250
(Na) Perfluoro-1-decanesulfonate	500	0.05	---	---	1	10	0.00253
(NA) Perfluoro-1-heptanesulfonate	500	0.05	---	---	1	10	0.00250
(Na) Perfluoro-1-nonanesulfonate	500	0.05	---	---	1	10	0.00253

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU10

Description: PFAS - DoD Calibration L7

N-ethylperfluoro-octanesulfonamidoacetic acid	500	0.05	---	---	1	10	0.00250
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-1-butanefulfonic Acid	500	0.05	---	---	1	10	0.00253
Perfluoro-1-hexanesulfonic Acid	500	0.05	---	---	1	10	0.00253
Perfluoro-1-octanesulfonamide	500	0.05	---	---	1	10	0.00250
Perfluoro-1-octanesulphonic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-butanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-decanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-dodecanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-heptanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-hexanoic acid	500	0.05	---	---	1	10	0.00253
Perfluoro-n-octanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluorononanoic Acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-pentanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-tetradecanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-tridecanoic acid	500	0.05	---	---	1	10	0.00250
Perfluoro-n-undecanoic acid	500	0.05	---	---	1	10	0.00250
Sodium perfluoro-1-pentanesulfonate	500	0.05	---	---	1	10	0.00250

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00253
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00250
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00250
(Na) Perfluoro-1-decanesulfonate	.00253
(NA) Perfluoro-1-heptanesulfonate	.00250
(Na) Perfluoro-1-nonanesulfonate	.00253
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00250
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00250
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-]1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.00253
Perfluoro-1-hexanesulfonic Acid	.00253
Perfluoro-1-octanesulfonamide	.00250
Perfluoro-1-octanesulphonic Acid	.00250
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU10

Description: PFAS - DoD Calibration L7

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00250
Perfluoro-n-decanoic Acid	.00250
Perfluoro-n-dodecanoic acid	.00250
Perfluoro-n-heptanoic Acid	.00250
Perfluoro-n-hexanoic acid	.00253
Perfluoro-n-octanoic Acid	.00250
Perfluorononanoic Acid	.00250
Perfluoro-n-pentanoic acid	.00250
Perfluoro-n-tetradecanoic acid	.00250
Perfluoro-n-tridecanoic acid	.00250
Perfluoro-n-undecanoic acid	.00250
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00250

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	C0982448K

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU11

Description: PFAS - DoD Calibration L8

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	1000 uL	1	5	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment:

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU11

Description: PFAS - DoD Calibration L8

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	25	0.02	---	---	1	5	0.00010

Stock Id: JU03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	1000	0.05	---	---	1	5	0.01010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	0.05	---	---	1	5	0.01000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	0.05	---	---	1	5	0.01000
(Na) Perfluoro-1-decanesulfonate	1000	0.05	---	---	1	5	0.01010
(NA) Perfluoro-1-heptanesulfonate	1000	0.05	---	---	1	5	0.01000
(Na) Perfluoro-1-nonanesulfonate	1000	0.05	---	---	1	5	0.01010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU11**

Description: PFAS - DoD Calibration L8

N-ethylperfluoro-octanesulfonamidoacetic acid	1000	0.05	---	---	1	5	0.01000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-1-butanefulfonic Acid	1000	0.05	---	---	1	5	0.01010
Perfluoro-1-hexanesulfonic Acid	1000	0.05	---	---	1	5	0.01010
Perfluoro-1-octanesulfonamide	1000	0.05	---	---	1	5	0.01000
Perfluoro-1-octanesulphonic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-butanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-decanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-dodecanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-heptanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-hexanoic acid	1000	0.05	---	---	1	5	0.01010
Perfluoro-n-octanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluorononanoic Acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-pentanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-tetradecanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-tridecanoic acid	1000	0.05	---	---	1	5	0.01000
Perfluoro-n-undecanoic acid	1000	0.05	---	---	1	5	0.01000
Sodium perfluoro-1-pentanesulfonate	1000	0.05	---	---	1	5	0.01000

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.01010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.01000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.01000
(Na) Perfluoro-1-decanesulfonate	.01010
(NA) Perfluoro-1-heptanesulfonate	.01000
(Na) Perfluoro-1-nonanesulfonate	.01010
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.01000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.01000
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-]1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.01010
Perfluoro-1-hexanesulfonic Acid	.01010
Perfluoro-1-octanesulfonamide	.01000
Perfluoro-1-octanesulphonic Acid	.01000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU11

Description: PFAS - DoD Calibration L8

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.01000
Perfluoro-n-decanoic Acid	.01000
Perfluoro-n-dodecanoic acid	.01000
Perfluoro-n-heptanoic Acid	.01000
Perfluoro-n-hexanoic acid	.01010
Perfluoro-n-octanoic Acid	.01000
Perfluorononanoic Acid	.01000
Perfluoro-n-pentanoic acid	.01000
Perfluoro-n-tetradecanoic acid	.01000
Perfluoro-n-tridecanoic acid	.01000
Perfluoro-n-undecanoic acid	.01000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.01000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	C0982448K

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU12

Description: PFAS - DoD Calibration L9

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JU03	PFAS - DoD High ICAL Stock	Solution	~0	03/12/19	---	---	2000 uL	1	5	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment:

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU12**

Description: PFAS - DoD Calibration L9

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	25	0.02	---	---	1	5	0.00010

Stock Id: JU03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	2000	0.05	---	---	1	5	0.02020
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	2000	0.05	---	---	1	5	0.02000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	2000	0.05	---	---	1	5	0.02000
(Na) Perfluoro-1-decanesulfonate	2000	0.05	---	---	1	5	0.02020
(NA) Perfluoro-1-heptanesulfonate	2000	0.05	---	---	1	5	0.02000
(Na) Perfluoro-1-nonanesulfonate	2000	0.05	---	---	1	5	0.02020

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU12**

Description: PFAS - DoD Calibration L9

N-ethylperfluoro-octanesulfonamidoacetic acid	2000	0.05	---	---	1	5	0.02000
N-methylperfluoro-1-octanesulfonamidoacetic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-1-butanefulfonic Acid	2000	0.05	---	---	1	5	0.02020
Perfluoro-1-hexanesulfonic Acid	2000	0.05	---	---	1	5	0.02020
Perfluoro-1-octanesulfonamide	2000	0.05	---	---	1	5	0.02000
Perfluoro-1-octanesulphonic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-butanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-decanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-dodecanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-heptanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-hexanoic acid	2000	0.05	---	---	1	5	0.02020
Perfluoro-n-octanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluorononanoic Acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-pentanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-tetradecanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-tridecanoic acid	2000	0.05	---	---	1	5	0.02000
Perfluoro-n-undecanoic acid	2000	0.05	---	---	1	5	0.02000
Sodium perfluoro-1-pentanesulfonate	2000	0.05	---	---	1	5	0.02000

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.02020
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.02000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.02000
(Na) Perfluoro-1-decanesulfonate	.02020
(NA) Perfluoro-1-heptanesulfonate	.02000
(Na) Perfluoro-1-nonanesulfonate	.02020
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.02000
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-butanefulfonic Acid	.02020
Perfluoro-1-hexanesulfonic Acid	.02020
Perfluoro-1-octanesulfonamide	.02000
Perfluoro-1-octanesulphonic Acid	.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU12

Description: PFAS - DoD Calibration L9

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.02000
Perfluoro-n-decanoic Acid	.02000
Perfluoro-n-dodecanoic acid	.02000
Perfluoro-n-heptanoic Acid	.02000
Perfluoro-n-hexanoic acid	.02020
Perfluoro-n-octanoic Acid	.02000
Perfluorononanoic Acid	.02000
Perfluoro-n-pentanoic acid	.02000
Perfluoro-n-tetradecanoic acid	.02000
Perfluoro-n-tridecanoic acid	.02000
Perfluoro-n-undecanoic acid	.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.02000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B
JU03	Pipette	F0501107B

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR03

Description: PFAS -DoD Low ICAL Stock

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
171025-02	PFOA - ICAL Mix	Neat	~1.00000 0	10/17/22	---	---	500 uL	1	100	~0.0050

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment:

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JR03

Description: PFAS -DoD Low ICAL Stock

Stock Id: 171025-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	1.01	1	100.000	1	100	0.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	1.00	1	100.000	1	100	0.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	1.00	1	100.000	1	100	0.00500
(Na) Perfluoro-1-decanesulfonate	500	1.01	1	100.000	1	100	0.00505
(NA) Perfluoro-1-heptanesulfonate	500	1.00	1	100.000	1	100	0.00500
(Na) Perfluoro-1-nonanesulfonate	500	1.01	1	100.000	1	100	0.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	100	0.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-1-butanefulfonic Acid	500	1.01	1	100.000	1	100	0.00505
Perfluoro-1-hexanesulfonic Acid	500	1.01	1	100.000	1	100	0.00505
Perfluoro-1-octanesulfonamide	500	1.00	1	100.000	1	100	0.00500
Perfluoro-1-octanesulphonic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-butanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-decanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-dodecanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-heptanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-hexanoic acid	500	1.01	1	100.000	1	100	0.00505
Perfluoro-n-octanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluorononanoic Acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-pentanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-tetradecanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-tridecanoic acid	500	1.00	1	100.000	1	100	0.00500
Perfluoro-n-undecanoic acid	500	1.00	1	100.000	1	100	0.00500
Sodium perfluoro-1-pentanesulfonate	500	1.00	1	100.000	1	100	0.00500

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00500
(Na) Perfluoro-1-decanesulfonate	.00505
(NA) Perfluoro-1-heptanesulfonate	.00500
(Na) Perfluoro-1-nonanesulfonate	.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00500
Perfluoro-1-butanefulfonic Acid	.00505

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment:

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JR03

Description: PFAS -DoD Low ICAL Stock

Perfluoro-1-hexanesulfonic Acid	.00505
Perfluoro-1-octanesulfonamide	.00500
Perfluoro-1-octanesulphonic Acid	.00500
Perfluoro-n-butanoic Acid	.00500
Perfluoro-n-decanoic Acid	.00500
Perfluoro-n-dodecanoic acid	.00500
Perfluoro-n-heptanoic Acid	.00500
Perfluoro-n-hexanoic acid	.00505
Perfluoro-n-octanoic Acid	.00500
Perfluorononanoic Acid	.00500
Perfluoro-n-pentanoic acid	.00500
Perfluoro-n-tetradecanoic acid	.00500
Perfluoro-n-tridecanoic acid	.00500
Perfluoro-n-undecanoic acid	.00500
Sodium perfluoro-1-pentanesulfonate	.00500

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
171025-02	Pipette	B1100330B

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment:

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU03

Description: PFAS - DoD High ICAL Stock

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
171025-02	PFOA - ICAL Mix	Neat	~1.00000 0	10/17/22	---	---	500 uL	1	10	~0.0500

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 3/12/2019
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124	

Balance ID: _____

Comment: 96:4 Methanol/Milli-q water

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU03

Description: PFAS - DoD High ICAL Stock

Stock Id: 171025-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	500	1.01	1	100.000	1	10	0.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	500	1.00	1	100.000	1	10	0.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	500	1.00	1	100.000	1	10	0.05000
(Na) Perfluoro-1-decanesulfonate	500	1.01	1	100.000	1	10	0.05050
(NA) Perfluoro-1-heptanesulfonate	500	1.00	1	100.000	1	10	0.05000
(Na) Perfluoro-1-nonanesulfonate	500	1.01	1	100.000	1	10	0.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	10	0.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-1-butanefulfonic Acid	500	1.01	1	100.000	1	10	0.05050
Perfluoro-1-hexanesulfonic Acid	500	1.01	1	100.000	1	10	0.05050
Perfluoro-1-octanesulfonamide	500	1.00	1	100.000	1	10	0.05000
Perfluoro-1-octanesulphonic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-butanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-decanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-dodecanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-heptanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-hexanoic acid	500	1.01	1	100.000	1	10	0.05050
Perfluoro-n-octanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluorononanoic Acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-pentanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-tetradecanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-tridecanoic acid	500	1.00	1	100.000	1	10	0.05000
Perfluoro-n-undecanoic acid	500	1.00	1	100.000	1	10	0.05000
Sodium perfluoro-1-pentanesulfonate	500	1.00	1	100.000	1	10	0.05000

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.05000
(Na) Perfluoro-1-decanesulfonate	.05050
(NA) Perfluoro-1-heptanesulfonate	.05000
(Na) Perfluoro-1-nonanesulfonate	.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.05000
Perfluoro-1-butanefulfonic Acid	.05050

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 3/12/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 96:4 Methanol/Milli-q water

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU03

Description: PFAS - DoD High ICAL Stock

Perfluoro-1-hexanesulfonic Acid	.05050
Perfluoro-1-octanesulfonamide	.05000
Perfluoro-1-octanesulphonic Acid	.05000
Perfluoro-n-butanoic Acid	.05000
Perfluoro-n-decanoic Acid	.05000
Perfluoro-n-dodecanoic acid	.05000
Perfluoro-n-heptanoic Acid	.05000
Perfluoro-n-hexanoic acid	.05050
Perfluoro-n-octanoic Acid	.05000
Perfluorononanoic Acid	.05000
Perfluoro-n-pentanoic acid	.05000
Perfluoro-n-tetradecanoic acid	.05000
Perfluoro-n-tridecanoic acid	.05000
Perfluoro-n-undecanoic acid	.05000
Sodium perfluoro-1-pentanesulfonate	.05000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
171025-02	Pipette	C0982448K

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 3/12/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 96:4 Methanol/Milli-q water

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR04

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-02	Mass-labelled PFAS Extraction Standard Solution	Neat	~1.00000 0	05/19/22	---	---	1000 uL	1	50	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 2 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 96:4 Methanol: Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JR04

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Stock Id: 170629-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	1000	1.00	1	100.000	1	50	0.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-1-[13C8]octanesulfonamide	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C5]pentanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C8]octanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C9]nonanoic acid	1000	1.00	1	100.000	1	50	0.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	1000	0.96	1	100.000	1	50	0.01916
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	1000	0.94	1	100.000	1	50	0.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	1000	0.95	1	100.000	1	50	0.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	1000	0.95	1	100.000	1	50	0.01892
Sodium perfluoro-1-[13C8]octanesulfonate	1000	0.96	1	100.000	1	50	0.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	1000	0.93	1	100.000	1	50	0.01858

Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.02000
Perfluoro-1-[13C8]octanesulfonamide	.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.02000
Perfluoro-n-[13C5]pentanoic acid	.02000
Perfluoro-n-[13C8]octanoic acid	.02000
Perfluoro-n-[13C9]nonanoic acid	.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.01916

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol: Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JR04**

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.01892
Sodium perfluoro-1-[13C8]octanesulfonate	.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.01858

Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 2 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Comment: 96:4 Methanol: Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR06

Description: PFAS - DoD Internal Standard Stock Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-03	Mass-labeled PFAS Injection Standards Solution	Neat	~2.00000 0	05/02/22	---	---	1000 uL	1	100	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM

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BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JR06**

Description: PFAS - DoD Internal Standard Stock Solution

Stock Id: **170629-03**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	1000	1.91	1	100.000	1	100	0.01910
Perfluoro-n-[1,2-13C2]decanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[1,2-13C2]octanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	1000	2.00	1	100.000	1	100	0.02000

Final Concentrations:

Analyte:	Conc (ug/mL):
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.01910
Perfluoro-n-[1,2-13C2]decanoic acid	.02000
Perfluoro-n-[1,2-13C2]octanoic acid	.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.02000

Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 12/28/2017 2:31:00 PM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU13

Description: PFAS -DoD ICC

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	50 uL	1	10	~0.0000
JP49	PFAS - DOD Second Source LCS/MS Solution	Solution	~0	11/03/18	---	---	200 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU13

Description: PFAS -DoD ICC

Stock Id: JP49

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	200	0.05	---	---	1	10	0.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-decanesulfonate	200	0.05	---	---	1	10	0.00101
(NA) Perfluoro-1-heptanesulfonate	200	0.05	---	---	1	10	0.00100
(Na) Perfluoro-1-nonanesulfonate	200	0.05	---	---	1	10	0.00101
N-ethylperfluoro-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-1-butanefulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-hexanesulfonic Acid	200	0.05	---	---	1	10	0.00101
Perfluoro-1-octanesulfonamide	200	0.05	---	---	1	10	0.00100
Perfluoro-1-octanesulphonic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-butanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-decanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-dodecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-heptanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-hexanoic acid	200	0.05	---	---	1	10	0.00101
Perfluoro-n-octanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluorononanoic Acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-pentanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tetradecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-tridecanoic acid	200	0.05	---	---	1	10	0.00100
Perfluoro-n-undecanoic acid	200	0.05	---	---	1	10	0.00100
Sodium perfluoro-1-pentanesulfonate	200	0.05	---	---	1	10	0.00100

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/12/2018

Expiration Date:

11/3/2018

Solution Volume

40 mL X 1

Vials

Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____

Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU13**

Description: PFAS -DoD ICC

Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00100
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00100
(Na) Perfluoro-1-decanesulfonate	.00101
(NA) Perfluoro-1-heptanesulfonate	.00100
(Na) Perfluoro-1-nonanesulfonate	.00101
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-ethylperfluoro-octanesulfonamidoacetic acid	.00100
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00100
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-1-buthanesulfonic Acid	.00101
Perfluoro-1-hexanesulfonic Acid	.00101
Perfluoro-1-octanesulfonamide	.00100
Perfluoro-1-octanesulphonic Acid	.00100
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 11/3/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU13**

Description: PFAS -DoD ICC

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Perfluoro-n-butanoic Acid	.00100
Perfluoro-n-decanoic Acid	.00100
Perfluoro-n-dodecanoic acid	.00100
Perfluoro-n-heptanoic Acid	.00100
Perfluoro-n-hexanoic acid	.00101
Perfluoro-n-octanoic Acid	.00100
Perfluorononanoic Acid	.00100
Perfluoro-n-pentanoic acid	.00100
Perfluoro-n-tetradecanoic acid	.00100
Perfluoro-n-tridecanoic acid	.00100
Perfluoro-n-undecanoic acid	.00100
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
Sodium perfluoro-1-pentanesulfonate	.00100

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JP49	Pipette	A1050931B
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107		

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JP83

Description: PFAS - DoD Instrument Blank

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JM18	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	07/05/18	---	---	50 uL	1	10	~0.0000
JM20	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/05/18	---	---	50 uL	1	10	~0.0000

Solution Prepared By: Schumitz, Denise	Date Prepared: 11/21/2017	Expiration Date: 11/21/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 80:20 MeOH/Millipore water

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JP83

Description: PFAS - DoD Instrument Blank

Stock Id: JM18

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	50	0.02	---	---	1	10	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	50	0.02	---	---	1	10	0.00010
Perfluoro-1-[13C8]octanesulfonamide	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C5]pentanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C8]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[13C9]nonanoic acid	50	0.02	---	---	1	10	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	50	0.02	---	---	1	10	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	50	0.02	---	---	1	10	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	50	0.02	---	---	1	10	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	50	0.02	---	---	1	10	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	50	0.02	---	---	1	10	0.00009

Stock Id: JM20

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	50	0.02	---	---	1	10	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	50	0.02	---	---	1	10	0.00010

Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010

Solution Prepared By: Schumitz, Denise

Date Prepared: 11/21/2017

Expiration Date: 11/21/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 80:20 MeOH/Millipore water

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: **Standard Laboratory ID Number: JP83****Description:** PFAS - DoD Instrument Blank

Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009

Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise	Date Prepared: 11/21/2017	Expiration Date: 11/21/2018
Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151		

Comment: 80:20 MeOH/Millipore water**Approved By:** _____ **Date:** _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JM18

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-02	Mass-labelled PFAS Extraction Standard Solution	Neat	~1.00000 0	05/19/22	---	---	1000 uL	1	50	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 7/5/2017	Expiration Date: 7/5/2018
Solution Volume 25 mL X 2 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 96:4 Methanol:water

Approved By: Thorn, Jonathan Date: 7/7/2017 9:26:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JM18

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Stock Id: 170629-02

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	1000	1.00	1	100.000	1	50	0.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-1-[13C8]octanesulfonamide	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C5]pentanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C8]octanoic acid	1000	1.00	1	100.000	1	50	0.02000
Perfluoro-n-[13C9]nonanoic acid	1000	1.00	1	100.000	1	50	0.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	1000	0.96	1	100.000	1	50	0.01916
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	1000	0.94	1	100.000	1	50	0.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	1000	0.95	1	100.000	1	50	0.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	1000	0.95	1	100.000	1	50	0.01892
Sodium perfluoro-1-[13C8]octanesulfonate	1000	0.96	1	100.000	1	50	0.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	1000	0.93	1	100.000	1	50	0.01858

Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.02000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.02000
Perfluoro-1-[13C8]octanesulfonamide	.02000
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.02000
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.02000
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.02000
Perfluoro-n-[1,2,3,4-13C4]hepetanoic acid	.02000
Perfluoro-n-[1,2-13C2]dodecanoic acid	.02000
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.02000
Perfluoro-n-[13C5]pentanoic acid	.02000
Perfluoro-n-[13C8]octanoic acid	.02000
Perfluoro-n-[13C9]nonanoic acid	.02000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.01916

Solution Prepared By: Schumitz, Denise Date Prepared: 7/5/2017 Expiration Date: 7/5/2018

Solution Volume 25 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol:water

Approved By: Thorn, Jonathan Date: 7/7/2017 9:26:00 AM



It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JM18**

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.01870
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.01898
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.01892
Sodium perfluoro-1-[13C8]octanesulfonate	.01914
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.01858

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
170629-02	Pipette	C0982448K

Solution Prepared By: Schumitz, Denise	Date Prepared: 7/5/2017	Expiration Date: 7/5/2018
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Solution Volume 25 mL X 2 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151
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Comment: 96:4 Methanol:water

Approved By: Thorn, Jonathan Date: 7/7/2017 9:26:00 AM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JM20

Description: PFAS - DoD Internal Standard Stock Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
170629-03	Mass-labeled PFAS Injection Standards Solution	Neat	~2.00000 0	05/02/22	---	---	1000 uL	1	100	~0.0200

Solution Prepared By: Schumitz, Denise	Date Prepared: 7/5/2017	Expiration Date: 7/5/2018
Solution Volume 25 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 96:4 methanol:water

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JM20

Description: PFAS - DoD Internal Standard Stock Solution

Stock Id: 170629-03

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	1000	1.91	1	100.000	1	100	0.01910
Perfluoro-n-[1,2-13C2]decanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[1,2-13C2]octanoic acid	1000	2.00	1	100.000	1	100	0.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	1000	2.00	1	100.000	1	100	0.02000

Final Concentrations:

Analyte:	Conc (ug/mL):
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.01910
Perfluoro-n-[1,2-13C2]decanoic acid	.02000
Perfluoro-n-[1,2-13C2]octanoic acid	.02000
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.02000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
170629-03	Pipette	C0982448K

Solution Prepared By: Schumitz, Denise Date Prepared: 7/5/2017 Expiration Date: 7/5/2018

Solution Volume 25 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 methanol:water

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU02

Description: PFAS - DoD Branched Standard

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JJ40	PFAS - Branched Stock	Solution	~0	09/24/19	---	---	1250 uL	1	5	~0.0000
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/12/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124	

Balance ID: _____

Comment: 80:20 MeOH/Millipore water

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU02

Description: PFAS - DoD Branched Standard

Stock Id: JJ40

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	1250	0.01	---	---	1	5	0.00150
br-PFOSK	1250	0.01	---	---	1	5	0.00150
ipPFNA	1250	0.01	---	---	1	5	0.00150
ipPFNS	1250	0.01	---	---	1	5	0.00150
NaP3MFpS	1250	0.01	---	---	1	5	0.00150
NaP6MHpS	1250	0.01	---	---	1	5	0.00150
P355TMHxA	1250	0.01	---	---	1	5	0.00150
P37DMOA	1250	0.01	---	---	1	5	0.00150
P3MHpA	1250	0.01	---	---	1	5	0.00150
P4MOA	1250	0.01	---	---	1	5	0.00150
T-PFOA	1250	0.01	---	---	1	5	0.00150

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/12/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 80:20 MeOH/Millipore water

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JU38

Description: PFAS - DoD Branched Standard

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	25 uL	1	5	~0.0000
JJ40	PFAS - Branched Stock	Solution	~0	09/24/19	---	---	2080 uL	1	5	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/27/2018	Expiration Date: 12/28/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124	

Balance ID: _____

Comment: 80/20 methanol/milli-q water

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JU38**

Description: PFAS - DoD Branched Standard

Stock Id: JJ40

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	2080	0.01	---	---	1	5	0.00250
br-PFOSK	2080	0.01	---	---	1	5	0.00250
ipPFNA	2080	0.01	---	---	1	5	0.00250
ipPFNS	2080	0.01	---	---	1	5	0.00250
NaP3MFpS	2080	0.01	---	---	1	5	0.00250
NaP6MHpS	2080	0.01	---	---	1	5	0.00250
P355TMHxA	2080	0.01	---	---	1	5	0.00250
P37DMOA	2080	0.01	---	---	1	5	0.00250
P3MHpA	2080	0.01	---	---	1	5	0.00250
P4MOA	2080	0.01	---	---	1	5	0.00250
T-PFOA	2080	0.01	---	---	1	5	0.00250

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	25	0.02	---	---	1	5	0.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	25	0.02	---	---	1	5	0.00010
Perfluoro-1-[13C8]octanesulfonamide	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C5]pentanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C8]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[13C9]nonanoic acid	25	0.02	---	---	1	5	0.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	25	0.02	---	---	1	5	0.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	25	0.02	---	---	1	5	0.00009
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	25	0.02	---	---	1	5	0.00009
Sodium perfluoro-1-[13C8]octanesulfonate	25	0.02	---	---	1	5	0.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	25	0.02	---	---	1	5	0.00009

Solution Prepared By: Schultz, Stephanie

Date Prepared:

3/27/2018

Expiration Date:

12/28/2018

Solution Volume

40 mL

X

1

Vials Refrigerator/Freezer No:

AgChem Laboratory: Refrigerator - R0124

Comment:

80/20 methanol/milli-q water

Approved By: _____

Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU38

Description: PFAS - DoD Branched Standard

Stock Id: JR06

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]decanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[1,2-13C2]octanoic acid	25	0.02	---	---	1	5	0.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	25	0.02	---	---	1	5	0.00010

Final Concentrations:

Analyte:	Conc (ug/mL):
br-PFHxSK	.00250
br-PFOSK	.00250
ipPFNA	.00250
ipPFNS	.00250
NaP3MFpS	.00250
NaP6MHpS	.00250
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00010
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00010
P355TMHxA	.00250
P37DMOA	.00250
P3MHpA	.00250
P4MOA	.00250
Perfluoro-1-[13C8]octanesulfonamide	.00010
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00010
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00010
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00010
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00010
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00010
Perfluoro-n-[1,2-13C2]decanoic acid	.00010
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00010
Perfluoro-n-[1,2-13C2]octanoic acid	.00010
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00010
Perfluoro-n-[13C5]pentanoic acid	.00010
Perfluoro-n-[13C8]octanoic acid	.00010
Perfluoro-n-[13C9]nonanoic acid	.00010
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00010
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00010
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00009

Solution Prepared By: Schultz, Stephanie Date Prepared: 3/27/2018 Expiration Date: 12/28/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Refrigerator - R0124

Comment: 80/20 methanol/milli-q water

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU38

Description: PFAS - DoD Branched Standard

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00009
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00009
Sodium perfluoro-1-[13C8]octanesulfonate	.00010
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00009
T-PFOA	.00250

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JR04	Pipette	D1075429B
JR06	Pipette	D1075429B

Solution Prepared By: Schultz, Stephanie **Date Prepared:** 3/27/2018 **Expiration Date:** 12/28/2018

Solution Volume 40 mL X 1 **Vials Refrigerator/Freezer No:** AgChem Laboratory: Refrigerator - R0124

Comment: 80/20 methanol/milli-q water

Approved By: _____ **Date:** _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JJ40

Description: PFAS - Branched Stock

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JH20	PFAS Branched	Solution	~2	09/24/19	---	---	75 uL	1	25	~0.0060

Solution Prepared By: Schumitz, Denise	Date Prepared: 3/29/2017	Expiration Date: 9/24/2019
Solution Volume 25 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Room - M0150	

Balance ID: _____

Comment: 96:4 Methanol:MilliQ (RP-170329-1)

Override On:	Expires:	Comment
03/12/18 DMS	09/24/19	Date extended due to manufacturers exp. Dat

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JJ40

Description: PFAS - Branched Stock

Stock ID: JH20

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	75	2.00	---	---	1	25	0.00600
br-PFOSK	75	2.00	---	---	1	25	0.00600
ipPFNA	75	2.00	---	---	1	25	0.00600
ipPFNS	75	2.00	---	---	1	25	0.00600
NaP3MFpS	75	2.00	---	---	1	25	0.00600
NaP6MHPs	75	2.00	---	---	1	25	0.00600
P355TMHxA	75	2.00	---	---	1	25	0.00600
P37DMOA	75	2.00	---	---	1	25	0.00600
P3MHPA	75	2.00	---	---	1	25	0.00600
P4MOA	75	2.00	---	---	1	25	0.00600
T-PFOA	75	2.00	---	---	1	25	0.00600

Final Concentrations:

Analyte:	Conc (ug/mL):
br-PFHxSK	.00600
br-PFOSK	.00600
ipPFNA	.00600
ipPFNS	.00600
NaP3MFpS	.00600
NaP6MHPs	.00600
P355TMHxA	.00600
P37DMOA	.00600
P3MHPA	.00600
P4MOA	.00600
T-PFOA	.00600

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JH20	Pipette	I0793912B

Solution Prepared By: Schumitz, Denise Date Prepared: 3/29/2017 Expiration Date: 9/24/2019

Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Room - M0150

Comment: 96:4 Methanol:MilliQ (RP-170329-1)

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JH20

Description: PFAS Branched

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
161230-01	br-PFHxSK	Neat	~50.0000 00	07/03/20	---	---	400 uL	1	10	~2.0000
161230-02	br-PFOSK	Neat	~50.0000 00	10/14/20	---	---	400 uL	1	10	~2.0000
161230-04	NaP3MHpS	Neat	~50.0000 00	06/10/20	---	---	400 uL	1	10	~2.0000
161230-05	NaP6MHpS	Neat	~50.0000 00	01/23/20	---	---	400 uL	1	10	~2.0000
161230-06	ipPFNS	Neat	~50.0000 00	09/23/20	---	---	400 uL	1	10	~2.0000
161230-07	T-PFOA	Neat	~50.0000 00	02/12/21	---	---	400 uL	1	10	~2.0000
161230-08	P3MHpA	Neat	~50.0000 00	06/10/20	---	---	400 uL	1	10	~2.0000
161230-09	P4MOA	Neat	~50.0000 00	06/10/20	---	---	400 uL	1	10	~2.0000
161230-10	ipPFNA	Neat	~50.0000 00	05/31/21	---	---	400 uL	1	10	~2.0000
161230-11	P355TMHxA	Neat	~50.0000 00	11/27/19	---	---	400 uL	1	10	~2.0000

Solution Prepared By: Schultz, Stephanie Date Prepared: 2/1/2017 Expiration Date: 9/24/2019
 Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144

Balance ID: _____
 Comment:

Solvent: _____ Lot: _____
 Methanol 166003

Override On: _____ Expires: _____ Comment: _____
 03/12/18 DMS 09/24/19 Date extended due to manufacturers exp. Dat

Approved By: _____ Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JH20

Description: PFAS Branched

161230-12	P37DMOA	Neat	~50.0000 00	09/24/19	---	---	400 uL	1	10	~2.0000
-----------	---------	------	----------------	----------	-----	-----	--------	---	----	---------

Solution Prepared By: Schultz, Stephanie	Date Prepared: 2/1/2017	Expiration Date: 9/24/2019
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144	

Balance ID: _____
 Comment:

Solvent:	Lot:
Methanol	166003

Override On:	Expires:	Comment
03/12/18 DMS	09/24/19	Date extended due to manufacturers exp. Dat

Approved By: _____ Date: _____

BATTELLE

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JH20

Description: PFAS Branched

Stock Id: 161230-01							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFHxSK	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-02							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
br-PFOSK	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-04							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
NaP3MFpS	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-05							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
NaP6MHpS	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-06							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
ipPFNS	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-07							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
T-PFOA	400	50.00	1	97.000	1	10	2.00000
Stock Id: 161230-08							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P3MHpA	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-09							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P4MOA	400	50.00	1	98.000	1	10	2.00000
Stock Id: 161230-10							
Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
ipPFNA	400	50.00	1	98.000	1	10	2.00000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 2/1/2017	Expiration Date: 9/24/2019
Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144		

Comment:

Approved By: _____ Date: _____



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JH20

Description: PFAS Branched

Stock Id: 161230-11

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P355TMHxA	400	50.00	1	98.000	1	10	2.00000

Stock Id: 161230-12

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
P37DMOA	400	50.00	1	98.000	1	10	2.00000

Final Concentrations:

Analyte:	Conc (ug/mL):
br-PFHxSK	2.00000
br-PFOSK	2.00000
ipPFNA	2.00000
ipPFNS	2.00000
NaP3MFpS	2.00000
NaP6MHPs	2.00000
P355TMHxA	2.00000
P37DMOA	2.00000
P3MHPA	2.00000
P4MOA	2.00000
T-PFOA	2.00000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
161230-01	Pipette	B1100330B
161230-02	Pipette	B1100330B
161230-04	Pipette	B1100330B
161230-05	Pipette	B1100330B
161230-06	Pipette	B1100330B
161230-07	Pipette	B1100330B
161230-08	Pipette	B1100330B
161230-09	Pipette	B1100330B
161230-10	Pipette	B1100330B
161230-11	Pipette	B1100330B
161230-12	Pipette	B1100330B

Solution Prepared By: Schultz, Stephanie

Date Prepared:

2/1/2017

Expiration Date:

9/24/2019

Solution Volume

40

mL X 1

Vials

Refrigerator/Freezer No: AgChem Laboratory: Cabinet - C0144

Comment:

Approved By: _____

Date: _____



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR05

Description: PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR04	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	12/28/18	---	---	2500 uL	1	25	~0.0000

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JR05

Description: PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

Stock Id: JR04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic aci	2500	0.02	---	---	1	25	0.00200
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic a	2500	0.02	---	---	1	25	0.00200
Perfluoro-1-[13C8]octanesulfonamide	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2-13C2]dodecanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2-13C2]tetradecanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[13C5]pentanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[13C8]octanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[13C9]nonanoic acid	2500	0.02	---	---	1	25	0.00200
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decan	2500	0.02	---	---	1	25	0.00192
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane	2500	0.02	---	---	1	25	0.00187
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane	2500	0.02	---	---	1	25	0.00190
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	2500	0.02	---	---	1	25	0.00189
Sodium perfluoro-1-[13C8]octanesulfonate	2500	0.02	---	---	1	25	0.00191
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	2500	0.02	---	---	1	25	0.00186

Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	.00200
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	.00200
Perfluoro-1-[13C8]octanesulfonamide	.00200
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	.00200
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	.00200
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	.00200
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	.00200
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	.00200
Perfluoro-n-[1,2-13C2]dodecanoic acid	.00200
Perfluoro-n-[1,2-13C2]tetradecanoic acid	.00200
Perfluoro-n-[13C5]pentanoic acid	.00200
Perfluoro-n-[13C8]octanoic acid	.00200
Perfluoro-n-[13C9]nonanoic acid	.00200
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decanesulfonat	.00192

Solution Prepared By: Schumitz, Denise Date Prepared: 12/28/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 Methanol:Millipore

Approved By: Schumitz, Denise Date: 1/10/2018 12:00:00 PM

BATTELLE

It can be done

Standard Solution Concentrations

Approved: **Standard Laboratory ID Number: JR05****Description:** PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexanesulfonat	.00187
sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octanesulfonat	.00190
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	.00189
Sodium perfluoro-1-[13C8]octanesulfonate	.00191
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	.00186

Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise	Date Prepared: 12/28/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151		

Comment: 96:4 Methanol:Millipore**Approved By:** Schumitz, Denise **Date:** 1/10/2018 12:00:00 PM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JR08

Description: PFAS - DoD Internal Standard Spiking Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JR06	PFAS - DoD Internal Standard Stock Solution	Solution	~0	12/28/18	---	---	2500 uL	1	25	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 12/29/2017	Expiration Date: 12/28/2018
Solution Volume 25 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 96:4 methanol:water

Approved By: Schumitz, Denise Date: 12/29/2017 10:10:00 AM

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JR08**

Description: PFAS - DoD Internal Standard Spiking Solution

Stock Id: **JR06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	2500	0.02	---	---	1	25	0.00191
Perfluoro-n-[1,2-13C2]decanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[1,2-13C2]octanoic acid	2500	0.02	---	---	1	25	0.00200
Perfluoro-n-[2,3,4-13C3]butanoic Acid	2500	0.02	---	---	1	25	0.00200

Final Concentrations:

Analyte:	Conc (ug/mL):
Perfluoro-1-[1,2,3,4-13C4]octanesulfonate	.00191
Perfluoro-n-[1,2-13C2]decanoic acid	.00200
Perfluoro-n-[1,2-13C2]octanoic acid	.00200
Perfluoro-n-[2,3,4-13C3]butanoic Acid	.00200

Syringes/Pipettes:

Solution Prepared By: Schultz, Stephanie Date Prepared: 12/29/2017 Expiration Date: 12/28/2018

Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 96:4 methanol:water

Approved By: Schumitz, Denise Date: 12/29/2017 10:10:00 AM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: **JU35**

Description: PFAS - Second Source Low Level Fortification

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
JP49	PFAS - DOD Second Source LCS/MS Solution	Solution	~0	11/03/18	---	---	1000 uL	1	10	~0.0000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/26/2018	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: _____

Comment: 80/20 methanol/milli-q water (RP-180323-2)

Approved By: Schumitz, Denise Date: 3/29/2018 9:41:00 AM

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU35

Description: PFAS - Second Source Low Level Fortification

Stock Id: JP49

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	1000	0.05	---	---	1	10	0.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	0.05	---	---	1	10	0.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	0.05	---	---	1	10	0.00500
(Na) Perfluoro-1-decanesulfonate	1000	0.05	---	---	1	10	0.00505
(NA) Perfluoro-1-heptanesulfonate	1000	0.05	---	---	1	10	0.00500
(Na) Perfluoro-1-nonanesulfonate	1000	0.05	---	---	1	10	0.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	0.05	---	---	1	10	0.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-1-butanefulfonic Acid	1000	0.05	---	---	1	10	0.00505
Perfluoro-1-hexanesulfonic Acid	1000	0.05	---	---	1	10	0.00505
Perfluoro-1-octanesulfonamide	1000	0.05	---	---	1	10	0.00500
Perfluoro-1-octanesulphonic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-butanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-decanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-dodecanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-heptanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-hexanoic acid	1000	0.05	---	---	1	10	0.00505
Perfluoro-n-octanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluorononanoic Acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-pentanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-tetradecanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-tridecanoic acid	1000	0.05	---	---	1	10	0.00500
Perfluoro-n-undecanoic acid	1000	0.05	---	---	1	10	0.00500
Sodium perfluoro-1-pentanesulfonate	1000	0.05	---	---	1	10	0.00500

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00505
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00500
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00500
(Na) Perfluoro-1-decanesulfonate	.00505
(NA) Perfluoro-1-heptanesulfonate	.00500
(Na) Perfluoro-1-nonanesulfonate	.00505
N-ethylperfluoro-octanesulfonamidoacetic acid	.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00500
Perfluoro-1-butanefulfonic Acid	.00505

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/26/2018	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Comment: 80/20 methanol/milli-q water (RP-180323-2)

Approved By: Schumitz, Denise **Date:** 3/29/2018 9:41:00 AM

It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JU35

Description: PFAS - Second Source Low Level Fortification

Perfluoro-1-hexanesulfonic Acid	.00505
Perfluoro-1-octanesulfonamide	.00500
Perfluoro-1-octanesulphonic Acid	.00500
Perfluoro-n-butanoic Acid	.00500
Perfluoro-n-decanoic Acid	.00500
Perfluoro-n-dodecanoic acid	.00500
Perfluoro-n-heptanoic Acid	.00500
Perfluoro-n-hexanoic acid	.00505
Perfluoro-n-octanoic Acid	.00500
Perfluorononanoic Acid	.00500
Perfluoro-n-pentanoic acid	.00500
Perfluoro-n-tetradecanoic acid	.00500
Perfluoro-n-tridecanoic acid	.00500
Perfluoro-n-undecanoic acid	.00500
Sodium perfluoro-1-pentanesulfonate	.00500

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JP49	Pipette	C0982448K

Solution Prepared By: Schultz, Stephanie	Date Prepared: 3/26/2018	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Comment: 80/20 methanol/milli-q water (RP-180323-2)

Approved By: Schumitz, Denise **Date:** 3/29/2018 9:41:00 AM



It can be done

Standard Solution Prep Form II

Approved:

Standard Laboratory ID Number: JP49

Description: PFAS - DOD Second Source LCS/MS Solution

Assigned Lab ID (from receipt log)	Chemical Name:	Source	Stock (ug/mL)	Expir. Date	Purity (%)	Density (g/mL)	Amount Taken	Conv. Fact.	Final Vol. (mL)	Std. Conc. (ug/mL)
171025-01	PFOA - 2nd Source	Neat	~1.00000 0	03/22/22	---	---	1000 uL	1	20	~0.0500

Solution Prepared By: Schumitz, Denise	Date Prepared: 11/3/2017	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Balance ID: _____

Comment: 80:20 MeOH/ Milli-Q

Approved By: Schumitz, Denise Date: 11/7/2017 11:11:00 AM

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JP49**

Description: PFAS - DOD Second Source LCS/MS Solution

Stock Id: **171025-01**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	1000	1.01	1	100.000	1	20	0.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	1.00	1	100.000	1	20	0.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	1.00	1	100.000	1	20	0.05000
(Na) Perfluoro-1-decanesulfonate	1000	1.01	1	100.000	1	20	0.05050
(NA) Perfluoro-1-heptanesulfonate	1000	1.00	1	100.000	1	20	0.05000
(Na) Perfluoro-1-nonanesulfonate	1000	1.01	1	100.000	1	20	0.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	20	0.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-1-butanefulfonic Acid	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-1-hexanesulfonic Acid	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-1-octanesulfonamide	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-1-octanesulphonic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-butanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-decanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-dodecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-heptanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-hexanoic acid	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-n-octanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluorononanoic Acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-pentanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-tetradecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-tridecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Perfluoro-n-undecanoic acid	1000	1.00	1	100.000	1	20	0.05000
Sodium perfluoro-1-pentanesulfonate	1000	1.00	1	100.000	1	20	0.05000

Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.05000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.05000
(Na) Perfluoro-1-decanesulfonate	.05050
(NA) Perfluoro-1-heptanesulfonate	.05000
(Na) Perfluoro-1-nonanesulfonate	.05050
N-ethylperfluoro-octanesulfonamidoacetic acid	.05000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.05000
Perfluoro-1-butanefulfonic Acid	.05050

Solution Prepared By: Schumitz, Denise Date Prepared: 11/3/2017 Expiration Date: 11/3/2018

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Room - M0151

Comment: 80:20 MeOH/ Milli-Q

Approved By: Schumitz, Denise Date: 11/7/2017 11:11:00 AM

BATTELLE

It can be done

Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JP49**

Description: PFAS - DOD Second Source LCS/MS Solution

Perfluoro-1-hexanesulfonic Acid	.05050
Perfluoro-1-octanesulfonamide	.05000
Perfluoro-1-octanesulphonic Acid	.05000
Perfluoro-n-butanoic Acid	.05000
Perfluoro-n-decanoic Acid	.05000
Perfluoro-n-dodecanoic acid	.05000
Perfluoro-n-heptanoic Acid	.05000
Perfluoro-n-hexanoic acid	.05050
Perfluoro-n-octanoic Acid	.05000
Perfluorononanoic Acid	.05000
Perfluoro-n-pentanoic acid	.05000
Perfluoro-n-tetradecanoic acid	.05000
Perfluoro-n-tridecanoic acid	.05000
Perfluoro-n-undecanoic acid	.05000
Sodium perfluoro-1-pentanesulfonate	.05000

Syringes/Pipettes:

Solution Prepared By: Schumitz, Denise	Date Prepared: 11/3/2017	Expiration Date: 11/3/2018
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Room - M0151	

Comment: 80:20 MeOH/ Milli-Q

Approved By: Schumitz, Denise Date: 11/7/2017 11:11:00 AM

BATTELLE DETECTION LIMITS FOR PFAS IN NON-POTABLE WATER

Analytical SOP 5-369

Extraction SOP 5-370

EPA 537 MOD DoD QSM 5.1 Compliant with Table B-15 requirements

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFBA	375-22-4	0.14	0.5	5.0
PFPeA	2706-90-3	0.31	1.0	5.0
PFHxA	307-24-4	0.19	0.5	5.0
PFHpA	375-85-9	0.16	0.5	5.0
PFOA	335-67-1	0.18	0.5	5.0
PFNA	375-95-1	0.26	1.0	5.0
PFDA	335-76-2	0.16	0.5	5.0
PFUnA	2058-94-8	0.29	1.0	5.0
PFDoA	307-55-1	0.18	0.5	5.0
PFTTrDA	72629-94-8	0.15	0.5	5.0
PFTeDA	376-06-7	0.25	1.0	5.0
NMeFOSAA	2355-31-9	0.56	2.5	5.0
NEtFOSAA	2991-50-6	0.49	1.0	5.0
PFOSA	754-91-6	TBD	TBD	TBD
PFBS	375-73-5	0.13	0.5	5.0
PFPeS	BDO-2114	0.67	2.5	5.0
PFHxS	355-46-4	0.11	0.5	5.0
PFHpS	375-99-6	0.20	0.5	5.0
PFOS	1763-23-1	0.19	0.5	5.0
PFNS	98789-57-2	0.46	1.0	5.0
PFDS	2806-15-7	0.17	0.5	5.0
4:2FTS	BDO-2205	0.14	0.5	5.0
6:2FTS	27619-97-2	1.36	2.5	5.0
8:2FTS	39108-34-4	0.22	0.5	5.0

Analytes on ELAP QSM 5.1 Scope of accreditation

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","375-22-4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"",".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","307-24-4","PFHxA",".190000","ng/L","U",".190000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","375-85-9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","335-67-1","PFOA",".340000","ng/L","J",".180000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","375-95-1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", "1.000000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","335-76-2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","2058-94-8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", "1.000000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","307-55-1","PFD_oA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","72629-94-8","PFTrDA",".160000","ng/L","J",".150000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","376-06-7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", "1.000000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","2355-31-9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", "2.500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","2991-50-6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", "1.000000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","375-73-5","PFBS",".160000","ng/L","J",".130000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","355-46-4","PFHxS",".210000","ng/L","J",".110000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","1763-23-1","PFOS",".330000","ng/L","J",".190000","MDL","","T","","","5.000000","LOQ","YES",-99.000000,"", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2105","13C4-PFBA",".300000","ng/L","", "-99.000000","NA","","SIS", "76.00", "", "-99.000000","NA","YES", ".400000", "", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2217","13C5-PFHxA",".410000","ng/L","", "-99.000000","NA","","SIS", "105.00", "", "-99.000000","NA","YES", ".400000", "", ".250000", ".000500", ".500000", ""

"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2218","13C4-PFHpA",".400000","ng/L","", "-99.000000","NA","","SIS", "101.00", "", "-99.000000","NA","YES", ".400000", "", ".250000", ".000500", ".500000", ""

00",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2219","13C8-
PFOA",".390000","ng/L","",-99.000000","NA","","SIS","100.00","",-99.000000","NA","YES",".400000","",".25000
0",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2221","13C9-
PFNA",".420000","ng/L","",-99.000000","NA","","SIS","105.00","",-99.000000","NA","YES",".400000","",".25000
0",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2222","13C6-
PFDA",".410000","ng/L","",-99.000000","NA","","SIS","103.00","",-99.000000","NA","YES",".400000","",".25000
0",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2223","13C7-
PFUnA",".410000","ng/L","",-99.000000","NA","","SIS","104.00","",-99.000000","NA","YES",".400000","",".2500
00",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2112","13C2-
PFD_oA",".340000","ng/L","",-99.000000","NA","","SIS","87.00","",-99.000000","NA","YES",".400000","",".25000
0",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2224","13C2-
PFTeDA",".220000","ng/L","",-99.000000","NA","","SIS","57.00","",-99.000000","NA","YES",".400000","",".2500
00",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2125","d3-
MeFOSAA",".450000","ng/L","",-99.000000","NA","","SIS","113.00","",-99.000000","NA","YES",".400000","",".2
50000",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2126","d5-
EtFOSAA",".400000","ng/L","",-99.000000","NA","","SIS","102.00","",-99.000000","NA","YES",".400000","",".25
0000",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2226","13C3-
PFBS",".380000","ng/L","",-99.000000","NA","","SIS","103.00","",-99.000000","NA","YES",".370000","",".250000
",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2227","13C3-
PFHxS",".330000","ng/L","",-99.000000","NA","","SIS","89.00","",-99.000000","NA","YES",".380000","",".250000
",".000500",".500000",""
"CQ350PB-FS","SOP 5-369","Initial","CQ350PB-FS","BNO","BDO-2228","13C8-
PFOS",".420000","ng/L","",-99.000000","NA","","SIS","111.00","",-99.000000","NA","YES",".380000","",".250000
",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","375-22-
4","PFBA","9.630000","ng/L","",".140000","MDL","","T","96.00","",".5.000000","LOQ","YES","10.000000","",".2500
00",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","307-24-
4","PFHxA","9.370000","ng/L","",".190000","MDL","","T","93.00","",".5.000000","LOQ","YES","10.100000","",".250
000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","375-85-
9","PFHpA","8.110000","ng/L","",".160000","MDL","","T","81.00","",".5.000000","LOQ","YES","10.000000","",".250
000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","335-67-
1","PFOA","9.540000","ng/L","",".180000","MDL","","T","96.00","",".5.000000","LOQ","YES","10.000000","",".2500
00",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","375-95-
1","PFNA","9.640000","ng/L","",".260000","MDL","","T","97.00","",".5.000000","LOQ","YES","10.000000","",".2500
00",".000500","1.000000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","335-76-
2","PFDA","9.860000","ng/L","",".160000","MDL","","T","99.00","",".5.000000","LOQ","YES","10.000000","",".2500
00",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","2058-94-
8","PFUnA","9.500000","ng/L","",".290000","MDL","","T","95.00","",".5.000000","LOQ","YES","10.000000","",".250

000",".000500","1.000000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","307-55-
1","PFD_oA","10.980000","ng/L","",".180000","MDL","","T","110.00","",".5.000000","LOQ","YES","10.000000","",".2
50000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","72629-94-
8","PFT_rDA","12.630000","ng/L","",".150000","MDL","","T","126.00","",".5.000000","LOQ","YES","10.000000","",".
250000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","376-06-
7","PFT_eDA","11.290000","ng/L","",".250000","MDL","","T","113.00","",".5.000000","LOQ","YES","10.000000","",".
.250000",".000500","1.000000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","2355-31-
9","NMeFOSAA","8.400000","ng/L","",".560000","MDL","","T","84.00","",".5.000000","LOQ","YES","10.000000","",
".250000",".000500","2.500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","2991-50-
6","NEtFOSAA","11.850000","ng/L","",".490000","MDL","","T","119.00","",".5.000000","LOQ","YES","10.000000","",
".250000",".000500","1.000000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","375-73-
5","PFBS","11.920000","ng/L","",".130000","MDL","","T","118.00","",".5.000000","LOQ","YES","10.100000","",".25
0000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","355-46-
4","PFH_xS","8.780000","ng/L","",".110000","MDL","","T","87.00","",".5.000000","LOQ","YES","10.100000","",".250
000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","1763-23-
1","PFOS","8.820000","ng/L","",".190000","MDL","","T","88.00","",".5.000000","LOQ","YES","10.000000","",".2500
00",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2105","13C4-
PFBA",".360000","ng/L","",".-99.000000","NA","",".SIS","92.00","",".-99.000000","NA","YES",".400000","",".250000"
",.000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2217","13C5-
PFH_xA",".400000","ng/L","",".-99.000000","NA","",".SIS","100.00","",".-99.000000","NA","YES",".400000","",".2500
00",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2218","13C4-
PFH_pA",".370000","ng/L","",".-99.000000","NA","",".SIS","93.00","",".-99.000000","NA","YES",".400000","",".25000
0",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2219","13C8-
PFOA",".390000","ng/L","",".-99.000000","NA","",".SIS","100.00","",".-99.000000","NA","YES",".400000","",".25000
0",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2221","13C9-
PFNA",".370000","ng/L","",".-99.000000","NA","",".SIS","94.00","",".-99.000000","NA","YES",".400000","",".250000"
",.000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2222","13C6-
PFDA",".380000","ng/L","",".-99.000000","NA","",".SIS","96.00","",".-99.000000","NA","YES",".400000","",".250000"
",.000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2223","13C7-
PFUnA",".410000","ng/L","",".-99.000000","NA","",".SIS","104.00","",".-99.000000","NA","YES",".400000","",".2500
00",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2112","13C2-
PFD_oA",".360000","ng/L","",".-99.000000","NA","",".SIS","90.00","",".-99.000000","NA","YES",".400000","",".25000
0",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2224","13C2-
PFT_eDA",".230000","ng/L","",".-99.000000","NA","",".SIS","60.00","",".-99.000000","NA","YES",".400000","",".2500
00",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2125","d3-
MeFOSAA",".390000","ng/L","",".-99.000000","NA","",".SIS","98.00","",".-99.000000","NA","YES",".400000","",".25

0000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2126","d5-
EtFOSAA",".310000","ng/L","",-99.000000","NA","","SIS","79.00","",-99.000000","NA","YES",".400000","",".250
000",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2226","13C3-
PFBS",".290000","ng/L","",-99.000000","NA","","SIS","80.00","",-99.000000","NA","YES",".370000","",".250000",
".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2227","13C3-
PFHxS",".370000","ng/L","",-99.000000","NA","","SIS","99.00","",-99.000000","NA","YES",".380000","",".250000
",".000500",".500000",""
"CQ351LCS-FS","SOP 5-369","Initial","CQ351LCS-FS","BNO","BDO-2228","13C8-
PFOS",".360000","ng/L","",-99.000000","NA","","SIS","94.00","",-99.000000","NA","YES",".380000","",".250000"
",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","375-22-
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000",
".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","307-24-
4","PFHxA",".190000","ng/L","U",".190000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000
",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","375-85-
9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000
",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","335-67-
1","PFOA",".180000","ng/L","J",".180000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000",
".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","375-95-
1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000",
".000500","1.000000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","335-76-
2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000",
".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","2058-94-
8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000
",".000500","1.000000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","307-55-
1","PFDaA",".180000","ng/L","U",".180000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000
",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","72629-94-
8","PFTTrDA",".150000","ng/L","U",".150000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".26000
0",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","376-06-
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".26000
0",".000500","1.000000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","2355-31-
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".2
60000",".000500","2.500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","2991-50-
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".26
0000",".000500","1.000000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","375-73-
5","PFBS",".130000","ng/L","U",".130000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000",
".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","355-46-
4","PFHxS",".110000","ng/L","U",".110000","MDL","","T","","",".5.000000","LOQ","YES","-99.000000","",".260000

",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","1763-23-1","PFOS",".190000","ng/L","U",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2105","13C4-PFBA",".340000","ng/L","","-99.000000","NA","","SIS","89.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2217","13C5-PFHxA",".380000","ng/L","","-99.000000","NA","","SIS","101.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2218","13C4-PFHpA",".400000","ng/L","","-99.000000","NA","","SIS","104.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2219","13C8-PFOA",".410000","ng/L","","-99.000000","NA","","SIS","108.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2221","13C9-PFNA",".430000","ng/L","","-99.000000","NA","","SIS","113.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2222","13C6-PFDA",".360000","ng/L","","-99.000000","NA","","SIS","94.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2223","13C7-PFUnA",".340000","ng/L","","-99.000000","NA","","SIS","90.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2112","13C2-PFDoA",".310000","ng/L","","-99.000000","NA","","SIS","81.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2224","13C2-PFTeDA",".210000","ng/L","","-99.000000","NA","","SIS","56.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2125","d3-MeFOSAA",".250000","ng/L","","-99.000000","NA","","SIS","67.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2126","d5-EtFOSAA",".360000","ng/L","","-99.000000","NA","","SIS","95.00","","-99.000000","NA","YES",".380000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2226","13C3-PFBS",".350000","ng/L","","-99.000000","NA","","SIS","98.00","","-99.000000","NA","YES",".360000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2227","13C3-PFHxS",".360000","ng/L","","-99.000000","NA","","SIS","102.00","","-99.000000","NA","YES",".360000","",".260000",".000500",".500000",""
"06GW09FRB0318","SOP 5-369","Initial","J5386-FS","BNO","BDO-2228","13C8-PFOS",".420000","ng/L","","-99.000000","NA","","SIS","116.00","","-99.000000","NA","YES",".370000","",".260000",".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","375-22-4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","307-24-4","PFHxA",".190000","ng/L","U",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","375-85-9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000"

".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","335-67-1","PFOA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","375-95-1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500","1.000000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","335-76-2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","2058-94-8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500","1.000000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","307-55-1","PFD_oA",".180000","ng/L","U",".180000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","72629-94-8","PFT_rDA",".150000","ng/L","U",".150000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","376-06-7","PFT_eDA",".250000","ng/L","U",".250000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500","1.000000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","2355-31-9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500","2.500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","2991-50-6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500","1.000000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","375-73-5","PFBS",".130000","ng/L","U",".130000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","355-46-4","PFH_xS",".110000","ng/L","U",".110000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","1763-23-1","PFOS",".190000","ng/L","U",".190000","MDL","","T","","","5.000000","LOQ","YES",-99.000000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2105","13C4-PFBA",".300000","ng/L","","-99.000000","NA","","SIS","80.00","","-99.000000","NA","YES",".380000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2217","13C5-PFH_xA",".350000","ng/L","","-99.000000","NA","","SIS","95.00","","-99.000000","NA","YES",".380000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2218","13C4-PFH_pA",".330000","ng/L","","-99.000000","NA","","SIS","89.00","","-99.000000","NA","YES",".380000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2219","13C8-PFOA",".350000","ng/L","","-99.000000","NA","","SIS","94.00","","-99.000000","NA","YES",".380000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2221","13C9-PFNA",".340000","ng/L","","-99.000000","NA","","SIS","91.00","","-99.000000","NA","YES",".380000","",".265000", ".000500",".500000",""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2222","13C6-PFDA",".350000","ng/L","","-99.000000","NA","","SIS","95.00","","-99.000000","NA","YES",".380000","",".265000"

,".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2223","13C7-
PFUnA",".360000","ng/L","",-99.000000","NA","","SIS","96.00","",-99.000000","NA","YES",".380000","", ".26500
0",".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2112","13C2-
PFDaA",".290000","ng/L","",-99.000000","NA","","SIS","78.00","",-99.000000","NA","YES",".380000","", ".26500
0",".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2224","13C2-
PFTeDA",".220000","ng/L","",-99.000000","NA","","SIS","58.00","",-99.000000","NA","YES",".380000","", ".2650
00",".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2125","d3-
MeFOSAA",".300000","ng/L","",-99.000000","NA","","SIS","81.00","",-99.000000","NA","YES",".380000","", ".26
5000",".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2126","d5-
EtFOSAA",".240000","ng/L","",-99.000000","NA","","SIS","65.00","",-99.000000","NA","YES",".380000","", ".265
000",".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2226","13C3-
PFBS",".270000","ng/L","",-99.000000","NA","","SIS","77.00","",-99.000000","NA","YES",".350000","", ".265000",
".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2227","13C3-
PFHxS",".240000","ng/L","",-99.000000","NA","","SIS","69.00","",-99.000000","NA","YES",".360000","", ".265000
",".000500",".500000", ""
"06GW15FRB0318","SOP 5-369","Initial","J5391-FS","BNO","BDO-2228","13C8-
PFOS",".280000","ng/L","",-99.000000","NA","","SIS","80.00","",-99.000000","NA","YES",".360000","", ".265000"
", ".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","375-22-
4","PFBA",".140000","ng/L","U",".140000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000",
".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","307-24-
4","PFHxA",".190000","ng/L","U",".190000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000
",".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","375-85-
9","PFHpA",".160000","ng/L","U",".160000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000
",".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","335-67-
1","PFOA",".180000","ng/L","U",".180000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000",
".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","375-95-
1","PFNA",".260000","ng/L","U",".260000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000",
".000500","1.000000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","335-76-
2","PFDA",".160000","ng/L","U",".160000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000",
".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","2058-94-
8","PFUnA",".290000","ng/L","U",".290000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000
",".000500","1.000000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","307-55-
1","PFDaA",".180000","ng/L","U",".180000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".265000
",".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","72629-94-
8","PFTTrDA",".150000","ng/L","U",".150000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".26500
0",".000500",".500000", ""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","376-06-
7","PFTeDA",".250000","ng/L","U",".250000","MDL","","T","","", "5.000000","LOQ","YES","-99.000000","", ".26500

0",".000500","1.000000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","2355-31-
9","NMeFOSAA",".560000","ng/L","U",".560000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".2
65000",".000500","2.500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","2991-50-
6","NEtFOSAA",".490000","ng/L","U",".490000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".26
5000",".000500","1.000000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","375-73-
5","PFBS",".130000","ng/L","U",".130000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",
".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","355-46-
4","PFHxS",".110000","ng/L","U",".110000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000
",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","1763-23-
1","PFOS",".190000","ng/L","U",".190000","MDL","","T","","","5.000000","LOQ","YES","-99.000000","",".265000",
".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2105","13C4-
PFBA",".310000","ng/L","","-99.000000","NA","","SIS","85.00","","-99.000000","NA","YES",".380000","",".265000"
",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2217","13C5-
PFHxA",".330000","ng/L","","-99.000000","NA","","SIS","90.00","","-99.000000","NA","YES",".380000","",".26500
0",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2218","13C4-
PFHpA",".350000","ng/L","","-99.000000","NA","","SIS","94.00","","-99.000000","NA","YES",".380000","",".26500
0",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2219","13C8-
PFOA",".350000","ng/L","","-99.000000","NA","","SIS","95.00","","-99.000000","NA","YES",".380000","",".265000"
",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2221","13C9-
PFNA",".380000","ng/L","","-99.000000","NA","","SIS","102.00","","-99.000000","NA","YES",".380000","",".26500
0",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2222","13C6-
PFDA",".370000","ng/L","","-99.000000","NA","","SIS","100.00","","-99.000000","NA","YES",".380000","",".26500
0",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2223","13C7-
PFUnA",".380000","ng/L","","-99.000000","NA","","SIS","102.00","","-99.000000","NA","YES",".380000","",".2650
00",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2112","13C2-
PFD_oA",".320000","ng/L","","-99.000000","NA","","SIS","87.00","","-99.000000","NA","YES",".380000","",".26500
0",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2224","13C2-
PFTeDA",".210000","ng/L","","-99.000000","NA","","SIS","58.00","","-99.000000","NA","YES",".380000","",".2650
00",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2125","d3-
MeFOSAA",".370000","ng/L","","-99.000000","NA","","SIS","99.00","","-99.000000","NA","YES",".380000","",".26
5000",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2126","d5-
EtFOSAA",".340000","ng/L","","-99.000000","NA","","SIS","91.00","","-99.000000","NA","YES",".380000","",".265
000",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2226","13C3-
PFBS",".390000","ng/L","","-99.000000","NA","","SIS","112.00","","-99.000000","NA","YES",".350000","",".265000
",".000500",".500000",""
"06GW14FRB0318","SOP 5-369","Initial","J5393-FS","BNO","BDO-2227","13C3-
PFHxS",".370000","ng/L","","-99.000000","NA","","SIS","104.00","","-99.000000","NA","YES",".360000","",".26500

0", ".000500", ".500000", ""
"06GW14FRB0318", "SOP 5-369", "Initial", "J5393-FS", "BNO", "BDO-2228", "13C8-
PFOS", ".410000", "ng/L", "", "-99.000000", "NA", "", "SIS", "114.00", "", "-99.000000", "NA", "YES", ".360000", "", ".265000",
".000500", ".500000", ""
"112g08005-JM08", "JM08 NCBC Gulfport Site 6 TS", "CQ350PB-FS", "", "WATER", "CQ350PB-FS", "Method
Bla", "", "-99.000000", "SOP 5-369", "Gen Prep", "Initial", "03/29/2018 10:21", "03/29/2018
22:06", "BNO", "COA", "NA", "T", "2.000000", "NA", "NA", "", "100.000000", "18-0216", "18-0216", "DP-18-0061", "DP-
18-0061", "18-0216", "03/29/2018 10:21", "04/06/2018 14:45", ""
"112g08005-JM08", "JM08 NCBC Gulfport Site 6 TS", "CQ351LCS-FS", "", "WATER", "CQ351LCS-
FS", "LCS", "", "-99.000000", "SOP 5-369", "Gen Prep", "Initial", "03/29/2018 10:21", "03/29/2018
22:17", "BNO", "COA", "NA", "T", "2.000000", "NA", "NA", "", "100.000000", "18-0216", "18-0216", "DP-18-0061", "DP-
18-0061", "18-0216", "03/29/2018 10:21", "04/06/2018 14:45", ""
"112g08005-JM08", "JM08 NCBC Gulfport Site 6 TS", "06GW09FRB0318", "03/17/2018 09:05", "QC", "J5386-
FS", "NM", "SHP-180320-02", ".100000", "SOP 5-369", "Gen Prep", "Initial", "03/29/2018 10:21", "03/29/2018
22:28", "BNO", "COA", "NA", "T", "2.000000", "NA", "NA", "", "100.000000", "18-0216", "18-0216", "DP-18-0061", "DP-
18-0061", "18-0216", "03/20/2018 10:30", "04/06/2018 14:45", ""
"112g08005-JM08", "JM08 NCBC Gulfport Site 6 TS", "06GW15FRB0318", "03/17/2018 10:25", "QC", "J5391-
FS", "NM", "SHP-180320-02", ".100000", "SOP 5-369", "Gen Prep", "Initial", "03/29/2018 10:21", "03/29/2018
22:39", "BNO", "COA", "NA", "T", "2.000000", "NA", "NA", "", "100.000000", "18-0216", "18-0216", "DP-18-0061", "DP-
18-0061", "18-0216", "03/20/2018 10:30", "04/06/2018 14:45", ""
"112g08005-JM08", "JM08 NCBC Gulfport Site 6 TS", "06GW14FRB0318", "03/17/2018 10:35", "QC", "J5393-
FS", "NM", "SHP-180320-02", ".100000", "SOP 5-369", "Gen Prep", "Initial", "03/29/2018 10:21", "03/29/2018
22:49", "BNO", "COA", "NA", "T", "2.000000", "NA", "NA", "", "100.000000", "18-0216", "18-0216", "DP-18-0061", "DP-
18-0061", "18-0216", "03/20/2018 10:30", "04/06/2018 14:45", ""

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, and documentation supporting these findings is presented in Appendix C.

PFAS

The following compounds were detected in the laboratory method/instrument/field reagent blanks at a concentration less than one-third (one/half for instrument blanks) the limit of quantitation (LOQ):

<u>Analyte</u>	<u>Maximum Concentration (ng/L)</u>	<u>Action Level LOQ (> or <)</u>
Pentadecafluorooctanoic acid ⁽¹⁾	0.18	< LOQ
Perfluorobutanoic acid ⁽²⁾	0.28	< LOQ
Pentadecafluorooctanoic acid ⁽²⁾	0.22	< LOQ
Perfluorohexanoic acid ⁽³⁾	1.08	< LOQ
Perfluoroheptanoic acid ⁽³⁾	1.26	< LOQ
Pentadecafluorooctanoic acid ⁽³⁾	1.11	< LOQ
Perfluorononanoic acid ⁽³⁾	1.03	< LOQ
Perfluorodecanoic acid ⁽³⁾	1.10	< LOQ
Perfluoroundecanoic acid ⁽³⁾	1.01	< LOQ
Perfluorododecanoic acid ⁽³⁾	1.09	< LOQ
Perfluorotridecanoic acid ⁽³⁾	1.05	< LOQ
N-Ethyl perfluorooctane sulfonamidoacetic acid ⁽³⁾	1.72	< LOQ
Perfluorobutanesulfonic acid ⁽³⁾	0.95	< LOQ
Perfluorohexanesulfonic acid ⁽³⁾	1.00	< LOQ
Perfluorooctane sulfonic acid ⁽³⁾	1.13	< LOQ
Pentadecafluorooctanoic acid ⁽⁴⁾	0.35	< LOQ
Perfluorotridecanoic acid ⁽⁴⁾	0.16	< LOQ
Perfluorobutanesulfonic acid ⁽⁴⁾	0.17	< LOQ
Perfluorohexanesulfonic acid ⁽⁴⁾	0.21	< LOQ
Perfluorooctane sulfonic acid ⁽⁴⁾	0.33	< LOQ
Perfluorohexanoic acid ⁽⁵⁾	0.80	< LOQ
Perfluoroheptanoic acid ⁽⁵⁾	0.89	< LOQ
Pentadecafluorooctanoic acid ⁽⁵⁾	0.76	< LOQ
Perfluorodecanoic acid ⁽⁵⁾	0.85	< LOQ
Perfluorododecanoic acid ⁽⁵⁾	0.77	< LOQ
Perfluorotridecanoic acid ⁽⁵⁾	0.81	< LOQ
N-Ethyl perfluorooctane sulfonamidoacetic acid ⁽⁵⁾	1.36	< LOQ
Perfluorobutanesulfonic acid ⁽⁵⁾	0.90	< LOQ
Perfluorohexanesulfonic acid ⁽⁵⁾	0.89	< LOQ
Perfluorooctane sulfonic acid ⁽⁵⁾	0.88	< LOQ

- (1) Maximum concentration in a FRB affecting samples 06GW09031718 and 06GW16031718.
- (2) Maximum concentration present in a method blank affecting SDG 18-0207.
- (3) Maximum concentration present in an instrument blank affecting SDG 18-0207.
- (4) Maximum concentration present in a method blank affecting SDG 18-0216.
- (5) Maximum concentration present in an instrument blank affecting SDG 18-0216.

The detected results reported for these compounds below the LOQ but above the Limit of Detection (LOD) were qualified as non-detected, (U). Detected results reported below the LOD were raised to the LOD and qualified as non-detected, (U). Field blanks are not qualified for blank contamination.

NOTES

The laboratory uses a primary transition (_1) for the quantitation of a compound and a secondary transition (_2) for confirmation.

It was noted that the laboratory did not analyze an instrument sensitivity check sample at the LOQ concentration. The laboratory did analyze an independent calibration check and continuing calibration verifications. No validation actions were required.

The injected internal standard area for 13C2-Pentadecafluorooctanoic acid was above the upper quality control limit in sample 06GW14031718. No validation actions were required as the sample was reanalyzed at a dilution with an acceptable internal standard area.

The injected internal standard areas for 13C3-Perfluorobutanoic acid were above the upper quality control limit for all samples except 06GW15031718 in SDG 18-0207. No validation actions were required as all sample results for perfluorobutanoic acid were nondetects.

The laboratory control sample (LCS) percent recovery for perfluorotridecanoic acid was above the 130% quality control limit affecting SDG 18-0207. No validation actions were warranted as all sample results were nondetects.

All samples were reported from a 2X dilution with the following exceptions:

<u>Sample</u>	<u>Analyte</u>	<u>Dilution</u>
06GW14031718	Pentadecafluorooctanoic acid	50X

Samples with detections and their associated FRBs are summarized below.

<u>Sample</u>	<u>Associated FRB</u>
06GW09031718	06GW09FRB0318
06GW16031718	06GW09FRB0318
06GW03031718	06GW14FRB0318
06GW04031718	06GW14FRB0318
06GW14031718	06GW14FRB0318
06FDGW0318	06GW14FRB0318
06GW06031718	06GW15FRB0318
06GW08031718	06GW15FRB0318
06GW15031718	06GW15FRB0318

Detected results reported below the LOQ but above the Detection Limit (DL) were qualified as estimated, (J). Non-detected results are reported to the Limit of Detection (LOD).

EXECUTIVE SUMMARY

Laboratory Performance: Several contaminants were detected in the method/instrument/field reagent blanks.

TO: G. ROOF
SDGs: 18-0207, 18-0216

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Other Factors Affecting Data Quality: Detected results below the LOQ were estimated.

The data for these analyses were reviewed with reference to the Environmental Protection Agency document EPA/600/R-08/092, Method 537, "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)", (September 2009), US EPA National Functional Guidelines for Organic Data Review (January 2017), and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories Version 5.1" (2017) as applicable. The text of this report has been formulated to address only those areas affecting data quality.



Tetra Tech, Inc.
Terri L. Solomon
Environmental Chemist



Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:

Appendix A - Qualified Analytical Results
Appendix B - Results as reported by the Laboratory
Appendix C - Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08005-JM08 SDG: 18-0207 FRACTION: PFAS MEDIA: WATER	NSAMPLE	06FDGW0318			06GW03031718			06GW04031718			06GW06031718		
	LAB_ID	J5397-FS			J5396-FS			J5389-FS			J5395-FS		
	SAMP_DATE	3/17/2018			3/17/2018			3/17/2018			3/17/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	06GW04031718											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	1	U		1	U		1	U		1	U		
N-METHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	2.5	U		2.5	U		2.5	U		2.5	U		
PENTADEC AFLUOROOCCTANOIC ACID	38.48			59.57			34.65			0.5	U		
PERFLUOROBUTANESULFONIC ACID	1.42	U	A	2.78	U	A	1.43	U	A	3.28	U	A	
PERFLUOROBUTANOIC ACID	0.5	U		0.5	U		0.5	U		0.5	U		
PERFLUORODECANOIC ACID	0.5	U		0.5	U		0.5	U	A	0.5	U		
PERFLUORODODECANOIC ACID	0.5	U		0.5	U		0.5	U		0.5	U		
PERFLUOROHEPTANOIC ACID	1.66	U	A	5.64			0.5	U		18.17			
PERFLUOROHEXANESULFONIC ACID	0.5	U	A	4.09	U	A	0.8	U	A	6.71			
PERFLUOROHEXANOIC ACID	1.49	U	A	7.9			1.68	U	A	19.81			
PERFLUORONONANOIC ACID	1	U		1	U	A	1	U	A	1	U		
PERFLUOROOCCTANE SULFONIC ACID	4	U	A	2.45	U	A	3.86	U	A	10.9			
PERFLUOROTETRADECANOIC ACID	1	U		1	U		1	U		1	U		
PERFLUOROTRIDECANOIC ACID	0.5	U		0.5	U		0.5	U		0.5	U		
PERFLUOROUNDECANOIC ACID	1	U		1	U		1	U		1	U		

PROJ_NO: 08005-JM08 SDG: 18-0207 FRACTION: PFAS MEDIA: WATER	NSAMPLE	06GW08031718			06GW09031718			06GW14031718			06GW15031718		
	LAB_ID	J5387-FS			J5388-FS			J5394-FS			J5392-FS		
	SAMP_DATE	3/17/2018			3/17/2018			3/17/2018			3/17/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	1	U		1	U		1	U		1	U		
N-METHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	2.5	U		2.5	U		2.5	U		2.5	U		
PENTADEC AFLUOROOCCTANOIC ACID	48.12			8.24			718.5			0.5	U	A	
PERFLUOROBUTANESULFONIC ACID	35.26			1.15	U	A	7.83			1.7	U	A	
PERFLUOROBUTANOIC ACID	0.5	U		0.5	U		0.5	U		2.74	U	A	
PERFLUORODECANOIC ACID	0.5	U		0.5	U	A	0.5	U		0.5	U		
PERFLUORODODECANOIC ACID	0.5	U	A	0.5	U	A	0.5	U		0.5	U		
PERFLUOROHEPTANOIC ACID	0.5	U		0.5	U		24.37			2.38	U	A	
PERFLUOROHEXANESULFONIC ACID	0.5	U		10.96			7.73			1.24	U	A	
PERFLUOROHEXANOIC ACID	0.5	U		1.12	U	A	28.94			1.7	U	A	
PERFLUORONONANOIC ACID	1	U	A	1	U	A	1	U	A	1	U		
PERFLUOROOCCTANE SULFONIC ACID	0.5	U		0.66	U	A	9.58			2.51	U	A	
PERFLUOROTETRADECANOIC ACID	1	U		1	U		1	U		1	U		
PERFLUOROTRIDECANOIC ACID	0.5	U	A	0.5	U	A	0.5	U		0.5	U		
PERFLUOROUNDECANOIC ACID	1	U		1	U	A	1	U		1	U		

PROJ_NO: 08005-JM08 SDG: 18-0207 FRACTION: PFAS MEDIA: WATER	NSAMPLE	06GW16031718		
	LAB_ID	J5390-FS		
	SAMP_DATE	3/17/2018		
	QC_TYPE	NM		
	UNITS	NG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID	1	U		
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID	2.5	U		
PENTADECAFLUOROOCTANOIC ACID	0.94	U	B	
PERFLUOROBUTANESULFONIC ACID	0.5	U	A	
PERFLUOROBUTANOIC ACID	0.5	U		
PERFLUORODECANOIC ACID	0.5	U		
PERFLUORODODECANOIC ACID	0.5	U		
PERFLUROHEPTANOIC ACID	0.5	U		
PERFLUROHEXANESULFONIC ACID	0.5	U	A	
PERFLUROHEXANOIC ACID	0.5	U	A	
PERFLURONONANOIC ACID	1	U		
PERFLUROOCTANE SULFONIC ACID	1.47	U	A	
PERFLUROTETRADECANOIC ACID	1	U		
PERFLUROTRIDECANOIC ACID	0.5	U		
PERFLUROUNDECANOIC ACID	1	U		

PROJ_NO: 08005-JM08 SDG: 18-0216 FRACTION: PFAS MEDIA: WATER	NSAMPLE	06GW09FRB0318			06GW14FRB0318			06GW15FRB0318		
	LAB_ID	J5386-FS			J5393-FS			J5391-FS		
	SAMP_DATE	3/17/2018			3/17/2018			3/17/2018		
	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
N-ETHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	1	U		1	U		1	U		
N-METHYL PERFLUOROOCCTANE SULFONAMIDOACETIC ACID	2.5	U		2.5	U		2.5	U		
PENTADEC AFLUOROOCCTANOIC ACID	0.18	J	P	0.5	U		0.5	U		
PERFLUOROBUTANESULFONIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUOROBUTANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUORODECANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUORODODECANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUOROHEPTANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUOROHEXANESULFONIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUOROHEXANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUORONONANOIC ACID	1	U		1	U		1	U		
PERFLUOROOCCTANE SULFONIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUOROTETRADECANOIC ACID	1	U		1	U		1	U		
PERFLUOROTRIDECANOIC ACID	0.5	U		0.5	U		0.5	U		
PERFLUOROUNDECANOIC ACID	1	U		1	U		1	U		

Appendix B

Results as Reported by the Laboratory



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	06GW08031718		
Battelle ID	J5387-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	48.12	0.50	5.00
PFNA	0.43 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 J	0.50	5.00
PFTTrDA	0.22 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	35.26	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	59 D
13C5-PFHxA	55
13C4-PFHpA	108
13C8-PFOA	85
13C9-PFNA	77
13C6-PFDA	95
13C7-PFUnA	103
13C2-PFDaA	89
13C2-PFTeDA	71
d3-MeFOSAA	126
d5-EtFOSAA	126
13C3-PFBS	90
13C3-PFHxS	111
13C8-PFOS	94

Analyzed by: Schumitz, Denise



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID 06GW09031718

Battelle ID J5388-FS
 Sample Type SA
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/28/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.270
 Size Unit-Basis L
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.12 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	8.24	0.50	5.00
PFNA	0.32 J	1.00	5.00
PFDA	0.30 J	0.50	5.00
PFUnA	0.30 J	1.00	5.00
PFDaA	0.30 J	0.50	5.00
PFTeDA	0.16 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.15 J	0.50	5.00
PFHxS	10.96	0.50	5.00
PFOS	0.66 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	68 D
13C5-PFHxA	100
13C4-PFHpA	85
13C8-PFOA	64
13C9-PFNA	64
13C6-PFDA	71
13C7-PFUnA	75
13C2-PFDaA	63
13C2-PFTeDA	67
d3-MeFOSAA	82
d5-EtFOSAA	73
13C3-PFBS	110
13C3-PFHxS	93
13C8-PFOS	85

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

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Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID 06GW04031718

Battelle ID J5389-FS
 Sample Type SA
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/28/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.275
 Size Unit-Basis L
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.68 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	34.65	0.50	5.00
PFNA	0.36 J	1.00	5.00
PFDA	0.28 J	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.43 J	0.50	5.00
PFHxS	0.80 J	0.50	5.00
PFOS	3.86 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	74 D
13C5-PFHxA	110
13C4-PFHpA	121
13C8-PFOA	87
13C9-PFNA	74
13C6-PFDA	108
13C7-PFUnA	128
13C2-PFDaA	106
13C2-PFTeDA	79
d3-MeFOSAA	139
d5-EtFOSAA	144
13C3-PFBS	130
13C3-PFHxS	132
13C8-PFOS	120

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

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Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID 06GW16031718

Battelle ID J5390-FS
 Sample Type SA
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/29/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.265
 Size Unit-Basis L
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.33 J	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.94 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.36 J	0.50	5.00
PFHxS	0.33 J	0.50	5.00
PFOS	1.47 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	57 D
13C5-PFHxA	114
13C4-PFHpA	125
13C8-PFOA	109
13C9-PFNA	94
13C6-PFDA	97
13C7-PFUnA	109
13C2-PFDaA	85
13C2-PFTeDA	52
d3-MeFOSAA	144
d5-EtFOSAA	147
13C3-PFBS	135
13C3-PFHxS	115
13C8-PFOS	126

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

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Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID 06GW15031718

Battelle ID J5392-FS
 Sample Type SA
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/29/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.265
 Size Unit-Basis L
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	2.74 J	0.50	5.00
PFHxA	1.70 J	0.50	5.00
PFHpA	2.38 J	0.50	5.00
PFOA	4.50 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.70 J	0.50	5.00
PFHxS	1.24 J	0.50	5.00
PFOS	2.51 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	59 D
13C5-PFHxA	118
13C4-PFHpA	103
13C8-PFOA	90
13C9-PFNA	82
13C6-PFDA	88
13C7-PFUnA	95
13C2-PFDaA	66
13C2-PFTeDA	57
d3-MeFOSAA	89
d5-EtFOSAA	76
13C3-PFBS	132
13C3-PFHxS	107
13C8-PFOS	123

Analyzed by: Schumitz, Denise

Printed: 4/4/2018



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID 06GW14031718

Battelle ID J5394-FS
 Sample Type SA
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/29/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.280
 Size Unit-Basis L
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	28.94	0.50	5.00
PFHpA	24.37	0.50	5.00
PFOA	718.50 D	0.50	5.00
PFNA	1.00 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	7.83	0.50	5.00
PFHxS	7.73	0.50	5.00
PFOS	9.58	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	69 D
13C5-PFHxA	56
13C4-PFHpA	53
13C8-PFOA	54 D
13C9-PFNA	51 D
13C6-PFDA	94
13C7-PFUnA	93
13C2-PFDaA	73
13C2-PFTeDA	59
d3-MeFOSAA	104
d5-EtFOSAA	82
13C3-PFBS	135
13C3-PFHxS	126
13C8-PFOS	110

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

L18-0207_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID 06GW06031718

Battelle ID J5395-FS
 Sample Type SA
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/29/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.270
 Size Unit-Basis L
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	19.81	0.50	5.00
PFHpA	18.17	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	3.28 J	0.50	5.00
PFHxS	6.71	0.50	5.00
PFOS	10.90	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	57 D
13C5-PFHxA	81
13C4-PFHpA	102
13C8-PFOA	81
13C9-PFNA	70
13C6-PFDA	103
13C7-PFUnA	122
13C2-PFDaA	95
13C2-PFTeDA	62
d3-MeFOSAA	114
d5-EtFOSAA	80
13C3-PFBS	130
13C3-PFHxS	88
13C8-PFOS	87

Analyzed by: Schumitz, Denise

Printed: 4/4/2018



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID 06GW03031718

Battelle ID J5396-FS
 Sample Type SA
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/29/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.280
 Size Unit-Basis L
 Units ng/L LOD LOQ

	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	7.90	0.50	5.00
PFHpA	5.64	0.50	5.00
PFOA	59.57	0.50	5.00
PFNA	0.42 J	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	2.78 J	0.50	5.00
PFHxS	4.09 J	0.50	5.00
PFOS	2.45 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	62 D
13C5-PFHxA	111
13C4-PFHpA	90
13C8-PFOA	77
13C9-PFNA	64
13C6-PFDA	74
13C7-PFUnA	82
13C2-PFDaA	62
13C2-PFTeDA	55
d3-MeFOSAA	61
d5-EtFOSAA	64
13C3-PFBS	133
13C3-PFHxS	113
13C8-PFOS	114

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

L18-0207_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID	06FDGW0318		
Battelle ID	J5397-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/22/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	GW		
Sample Size	0.275		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	1.49 J	0.50	5.00
PFHpA	1.66 J	0.50	5.00
PFOA	38.48	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	1.42 J	0.50	5.00
PFHxS	0.39 J	0.50	5.00
PFOS	4.00 J	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	65 D
13C5-PFHxA	123
13C4-PFHpA	102
13C8-PFOA	80
13C9-PFNA	75
13C6-PFDA	94
13C7-PFUnA	124
13C2-PFDoA	92
13C2-PFTeDA	84
d3-MeFOSAA	103
d5-EtFOSAA	120
13C3-PFBS	102
13C3-PFHxS	124
13C8-PFOS	107

Analyzed by: Schumitz, Denise

Printed: 4/4/2018



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	06GW09FRB0318		
Battelle ID	J5386-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.260		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	89
13C5-PFHxA	101
13C4-PFHpA	104
13C8-PFOA	108
13C9-PFNA	113
13C6-PFDA	94
13C7-PFUnA	90
13C2-PFDaA	81
13C2-PFTeDA	56
d3-MeFOSAA	67
d5-EtFOSAA	95
13C3-PFBS	98
13C3-PFHxS	102
13C8-PFOS	116

Analyzed by: Schumitz, Denise



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID	06GW15FRB0318		
Battelle ID	J5391-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	80
13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	94
13C9-PFNA	91
13C6-PFDA	95
13C7-PFUnA	96
13C2-PFDaA	78
13C2-PFTeDA	58
d3-MeFOSAA	81
d5-EtFOSAA	65
13C3-PFBS	77
13C3-PFHxS	69
13C8-PFOS	80

Analyzed by: Schumitz, Denise

Printed: 4/4/2018

Isotope Dilution

L18-0216_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: PFAS Analytical v
 Project Number: 100112541

Client ID	06GW14FRB0318		
Battelle ID	J5393-FS		
Sample Type	SA		
Collection Date	03/17/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	QC		
Sample Size	0.265		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.18 U	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDaA	0.18 U	0.50	5.00
PFTTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	85
13C5-PFHxA	90
13C4-PFHpA	94
13C8-PFOA	95
13C9-PFNA	102
13C6-PFDA	100
13C7-PFUnA	102
13C2-PFDaA	87
13C2-PFTeDA	58
d3-MeFOSAA	99
d5-EtFOSAA	91
13C3-PFBS	112
13C3-PFHxS	104
13C8-PFOS	114

Analyzed by: Schumitz, Denise

Appendix C

Support Documentation

ANALYTE		ORIGINAL	DUPLICATE	RL	RPD	RPD > 50%	ORIGINAL	DUPLICATE	DIFFERENCE >2XRL
		06GW04031718	06FDGW0318				SAMPLE CONC	SAMPLE CONC	
PERFLUOROHEXANOIC ACID	PFHxA	1.67	1.48	5	12.063	FALSE	FALSE	FALSE	FALSE
PENTADEC AFLUORO OCTANOIC ACID	PFOA	34.64	38.48	5	10.503	FALSE	TRUE	TRUE	FALSE
PERFLUORONONANOIC ACID	PFNA	0.35	0.26	5	29.508	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANOIC ACID	PFDA	0.28	0.16	5	54.545	TRUE	FALSE	FALSE	FALSE
PERFLUOROBUTANESULFONIC ACID	PFBS	1.43	1.42	5	0.702	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEXANESULFONIC ACID	PFHxS	0.8	0.38	5	71.186	TRUE	FALSE	FALSE	FALSE
PERFLUORO OCTANE SULFONIC ACID	PFOS	3.85	3.99	5	3.571	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANOIC ACID	PFHpA	0.16	1.66	5	164.835	TRUE	FALSE	FALSE	FALSE



It can be done

Chain-of-Custody

Client Contact Information		Project Manager: <u>G. Roof</u>			Sampling Site: <u>NCRC Gulfport</u>		Site Information: <u>Side 6</u>	
		Sampler Information (print name): <u>W.D. Olson</u>			Preservative		COC # <u>L</u>	
		Phone: <u>850 443 6855</u>						
		Email: <u>William.Olson@tetratech.com</u>			Analysis		Page # <u>L</u>	
		Turnaround Time (TAT) Requested:						
Project Name: <u>112608005-Jm08</u>		Normal Priority RI/SH			Analytical			
Project No.: <u>10015738-Jm08</u>								
Sample Identification		Time Zone:	Sample Date	Sample Time	Sample Type	Matrix	Total # of Samples	
JS386	<u>06GW09FRB0318</u>		<u>3-17/18</u>	<u>0905</u>	<u>Grub</u>	<u>Grub</u>	<u>1</u>	
JS387	<u>06GW08031718</u>			<u>0925</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	<u>MS/MSD</u>
JS388	<u>06GW09031718</u>			<u>0923</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	
JS389	<u>06GW04031718</u>			<u>0930</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	
JS390	<u>06GW16031718</u>			<u>1023</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	
JS391	<u>06GW15FRB0318</u>			<u>1025</u>	<u>QC</u>	<u>QC</u>	<u>1</u>	
JS392	<u>06GW15031718</u>			<u>1030</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	
JS393	<u>06GW14FRB0318</u>			<u>1035</u>	<u>QC</u>	<u>QC</u>	<u>1</u>	
JS394	<u>06GW14031718</u>			<u>1040</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	
JS395	<u>06GW06031718</u>			<u>1125</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	
JS396	<u>06GW03031718</u>			<u>1205</u>	<u>Grub</u>	<u>Grub</u>	<u>2</u>	
JS397	<u>06FDGW0318</u>			<u>0000</u>	<u>QC</u>	<u>Grub</u>	<u>2</u>	
Receipt Temperature: (°C) <u>0.1^d</u>		Samples Intact: <u>Yes</u> - No			Samples on Ice: <u>Yes</u> - No		Receipt Comments:	
Relinquished by (Print/Sign) <u>W.D. Olson</u>		Company <u>TT</u>		Date/Time <u>3-17/18 1100</u>		Received by (Print/Sign) <u>Matt Schmittz</u>		Company <u>Battelle</u>
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)		Company
Relinquished by (Print/Sign)		Company		Date/Time		Received by (Print/Sign)		Company
Comments: <u>Fedex 8748 4755 5975</u>								



It can be done

ShpNo SHP-180320-02

Battelle Project No: _____

Sample Receipt Form Details

Approved: Authorized

Project Number: 100115738-JM08

Client: Tetrattech

Received by: Schumitz, Matt

Date/Time Received: Tuesday, March 20, 2018 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J5386	06GW09FRB0318	03/17/18 9:05	03/20/18 14:22	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5387	06GW08031718	03/17/18 9:25	03/20/18 14:22	6	GW	0.1	NA	NA	NA	R0118 (NA)			MSMSD
J5388	06GW09031718	03/17/18 9:23	03/20/18 14:25	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5389	06GW04031718	03/17/18 9:30	03/20/18 14:27	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5390	06GW16031718	03/17/18 10:23	03/20/18 14:28	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5391	06GW15FRB0318	03/17/18 10:25	03/20/18 14:28	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5392	06GW15031718	03/17/18 10:30	03/20/18 14:29	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5393	06GW14FRB0318	03/17/18 10:35	03/20/18 14:29	1	QC	0.1	NA	NA	NA	R0118 (NA)			
J5394	06GW14031718	03/17/18 10:40	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5395	06GW06031718	03/17/18 11:25	03/20/18 14:30	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5396	06GW03031718	03/17/18 12:05	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			
J5397	06FDGW0318	03/17/18 0:00	03/20/18 14:31	2	GW	0.1	NA	NA	NA	R0118 (NA)			

Total Samples: 12

QA/QC Summary Batch 18-0207

Project:	CTO-JM08 – Naval Construction Battalion Center (NCBC)
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	Water, GW
Data Set:	DP-18-0053
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

Sample Custody

Collection Date	Receipt Date	Temp (°C)
3/17/2018	3/20/2018	0.1
Corrective Actions	<ul style="list-style-type: none"> Chain of Custody forms were not signed. Client signed and send scanned copy to the laboratory. One sample did not indicate the correct number of samples received. Client corrected sample counts via email. 	
Sample Storage	The water samples were stored refrigerated until extraction.	
Related samples	Field reagent blanks 06GW09FRB0318, 06GW15FRB0318, and 06GW14FRB0318 were extracted in batch 18-0216 are associated with these samples.	

METHOD SUMMARIES

Sample Preparation	Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% NH ₃ in methanol. Extracts were split and concentrated to dryness under nitrogen with a water bath set between 50 °C and 60 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.
Prep comments	Due to particulate matter present in the sample containers, laboratory sample IDs J5387, the MS/MSD associated with J5387, and J5392 were centrifuged prior to fortification with labelled analogs.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations.
Analysis Comments	<p>Battelle sample IDs J5394 and J5396 for PFNA contain both branched and linear isomers.</p> <p>Battelle sample IDs J5388, J5389, J5390, J5392, J5394, J5395, J5396, and J5397 for PFOS contain both branched and linear isomers.</p> <p>Samples analyzed on Sciex 5500 LC-MS/MS.</p> <p>The injection internal standard 13C2-PFOA in laboratory sample ID J5394 was above criteria due to matrix effects. This sample was diluted and the extracted</p>

**QA/QC Summary
Batch 18-0207**

	<p>internal standards associated with this standard were quantified and reported from the dilution.</p> <p>The injection internal standard 13C3-PFBA in laboratory sample ID J5387, J5387MS, J5387MSD, J5388, J5389, J5394, J5395, J5396, and J5397 were above criteria due to matrix effects. These samples were diluted, and the extracted internal standard was quantified and reported from the dilution.</p>	
Holding Times	Extraction Date(s)	Analysis Date(s)
	3/22/2018	3/28/2018 – 3/30/2018
Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.	
≤ ½ the LOQ Samples >10x PB	No exceedances noted.	
	No comments.	
Laboratory Control Spike (LCS)	A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.	
Laboratory derived control limits for recovery	No exceedances noted.	
	No comments.	
Matrix Spike (MS) / Duplicate (MSD)	A MS/MSD were prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference was calculated to measure precision.	
	Laboratory derived control limits for recovery, RPD ≤ 30%	No exceedances noted. No Comments.
Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.	
	50-150% of true value	No exceedances noted. No Comments.
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.	
+/- 30% of true value, R ² ≥0.99	No exceedances noted.	
	No comments.	
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.	

QA/QC Summary
Batch 18-0207

+/- 30% of true value	No exceedances noted.
	No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.



BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title: PFAS Analytical work	Data Set Number: DP-18-0053
Project Number: 100112541	Prep Batch Number: 18-0207
Entered By: Denise Schumitz	Entered On: 04/04/2018
Test Code (Matrix Type): Master_369(L)	

JU12 is not being used in the calibration curve for d3-MeFOSAA in the SIS method and NMeFOSAA from the Base method. There is no impact on the data once this point is dropped from the curve.
DMS 4/4/2018

JU04 is not being used in the calibration curve for PFHpA, PFOA, PFOS, PFTTrDA, PFTeDA, NMeFOSAA and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.
DMS 4/4/2018

JU05 is not being used in the calibration curve for PFHpA, PFTeDA, NMeFOSAA and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.
DMS 4/4/2018

13C2-PFOA, the internal standard is above the passing criteria in sample J5394 due to contribution of the sample matrix. The sample was diluted and 13-C2-PFOA is being reported from the dilution.
DMS 4/4/2018

13C3-PFBA, the internal standard is above the passing criteria in samples J5387, J5387MS, J5387MSD, J5388, J5389, J5390, J5394, J5395, J5396 and J5397 due to contribution of the sample matrix. The samples were diluted and 13C4-PFBA is being reported from the dilutions.
DMS 4/4/2018

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
DMS 4/4/2018

Task Leader Approval:

Supervisor Approval:

PM Approval:

Digitally signed by Jonathan
Thorn

Date: 2018.04.06 12:17:00 -04'00'

IS Area Report

Batch: 18-0207

Result Table: 18-0207_SIS & 18-0207_SIS_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
19	JU04	Standard	3/28/2018 19:46	13C2-PFOA	28110	12525	37575	Pass
37	JU05	Standard	3/28/2018 19:57	13C2-PFOA	23700	12525	37575	Pass
55	JU06	Standard	3/28/2018 20:08	13C2-PFOA	25050	12525	37575	Pass
73	JU07	Standard	3/28/2018 20:19	13C2-PFOA	30300	12525	37575	Pass
91	JU08	Standard	3/28/2018 20:30	13C2-PFOA	25080	12525	37575	Pass
109	JU09	Standard	3/28/2018 20:40	13C2-PFOA	26460	12525	37575	Pass
127	JU10	Standard	3/28/2018 20:51	13C2-PFOA	26410	12525	37575	Pass
145	JU11	Standard	3/28/2018 21:02	13C2-PFOA	26170	12525	37575	Pass
163	JU12	Standard	3/28/2018 21:13	13C2-PFOA	34000	12525	37575	Pass
181	JP83 IB	Quality Control	3/28/2018 21:23	13C2-PFOA	31350	12525	37575	Pass
199	JU13 ICC	Quality Control	3/28/2018 21:34	13C2-PFOA	25470	12525	37575	Pass
217	JU38 Branch	Quality Control	3/28/2018 21:45	13C2-PFOA	29970	12525	37575	Pass
253	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C2-PFOA	31470	12525	37575	Pass
271	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C2-PFOA	30570	12525	37575	Pass
289	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C2-PFOA	18260	12525	37575	Pass
307	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C2-PFOA	18400	12525	37575	Pass
325	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C2-PFOA	19240	12525	37575	Pass
343	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C2-PFOA	31480	12525	37575	Pass
361	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C2-PFOA	22510	12525	37575	Pass
379	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C2-PFOA	30610	12525	37575	Pass
397	JU09 CCV	Quality Control	3/29/2018 0:16	13C2-PFOA	30300	12525	37575	Pass
433	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C2-PFOA	24650	12525	37575	Pass
451	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C2-PFOA	68540	12525	37575	Fail ¹
469	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C2-PFOA	28170	12525	37575	Pass
487	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C2-PFOA	23950	12525	37575	Pass
505	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C2-PFOA	28560	12525	37575	Pass
523	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C2-PFOA	32410	12525	37575	Pass
541	JU10 CCV	Quality Control	3/29/2018 1:42	13C2-PFOA	31930	12525	37575	Pass
20	JU04	Standard	3/28/2018 19:46	13C4-PFOS	10060	4801	14402	Pass
38	JU05	Standard	3/28/2018 19:57	13C4-PFOS	8431	4801	14402	Pass
56	JU06	Standard	3/28/2018 20:08	13C4-PFOS	9601	4801	14402	Pass
74	JU07	Standard	3/28/2018 20:19	13C4-PFOS	10710	4801	14402	Pass
92	JU08	Standard	3/28/2018 20:30	13C4-PFOS	8102	4801	14402	Pass
110	JU09	Standard	3/28/2018 20:40	13C4-PFOS	10010	4801	14402	Pass
128	JU10	Standard	3/28/2018 20:51	13C4-PFOS	7234	4801	14402	Pass
146	JU11	Standard	3/28/2018 21:02	13C4-PFOS	7902	4801	14402	Pass
182	JP83 IB	Quality Control	3/28/2018 21:23	13C4-PFOS	9601	4801	14402	Pass

IS Area Report

Batch: 18-0207

Result Table: 18-0207_SIS & 18-0207_SIS_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
200	JU13 ICC	Quality Control	3/28/2018 21:34	13C4-PFOS	9201	4801	14402	Pass
218	JU38 Branch	Quality Control	3/28/2018 21:45	13C4-PFOS	10110	4801	14402	Pass
254	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C4-PFOS	9743	4801	14402	Pass
272	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C4-PFOS	8607	4801	14402	Pass
290	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C4-PFOS	4915	4801	14402	Pass
308	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C4-PFOS	4974	4801	14402	Pass
326	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C4-PFOS	4805	4801	14402	Pass
344	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C4-PFOS	9823	4801	14402	Pass
362	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C4-PFOS	5273	4801	14402	Pass
380	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C4-PFOS	7482	4801	14402	Pass
398	JU09 CCV	Quality Control	3/29/2018 0:16	13C4-PFOS	10350	4801	14402	Pass
434	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C4-PFOS	6840	4801	14402	Pass
452	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C4-PFOS	7055	4801	14402	Pass
470	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C4-PFOS	10830	4801	14402	Pass
488	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C4-PFOS	6163	4801	14402	Pass
506	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C4-PFOS	7646	4801	14402	Pass
524	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C4-PFOS	8738	4801	14402	Pass
542	JU10 CCV	Quality Control	3/29/2018 1:42	13C4-PFOS	9198	4801	14402	Pass
21	JU04	Standard	3/28/2018 19:46	13C2-PFDA	41340	19225	57675	Pass
39	JU05	Standard	3/28/2018 19:57	13C2-PFDA	33110	19225	57675	Pass
57	JU06	Standard	3/28/2018 20:08	13C2-PFDA	38450	19225	57675	Pass
75	JU07	Standard	3/28/2018 20:19	13C2-PFDA	41500	19225	57675	Pass
93	JU08	Standard	3/28/2018 20:30	13C2-PFDA	35120	19225	57675	Pass
111	JU09	Standard	3/28/2018 20:40	13C2-PFDA	38600	19225	57675	Pass
129	JU10	Standard	3/28/2018 20:51	13C2-PFDA	33750	19225	57675	Pass
147	JU11	Standard	3/28/2018 21:02	13C2-PFDA	35090	19225	57675	Pass
165	JU12	Standard	3/28/2018 21:13	13C2-PFDA	48470	19225	57675	Pass
183	JP83 IB	Quality Control	3/28/2018 21:23	13C2-PFDA	42790	19225	57675	Pass
201	JU13 ICC	Quality Control	3/28/2018 21:34	13C2-PFDA	34240	19225	57675	Pass
219	JU38 Branch	Quality Control	3/28/2018 21:45	13C2-PFDA	39510	19225	57675	Pass
255	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C2-PFDA	47690	19225	57675	Pass
273	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C2-PFDA	41370	19225	57675	Pass
291	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C2-PFDA	24290	19225	57675	Pass
309	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C2-PFDA	24780	19225	57675	Pass
327	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C2-PFDA	22750	19225	57675	Pass
345	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C2-PFDA	38400	19225	57675	Pass
363	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C2-PFDA	22860	19225	57675	Pass
381	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C2-PFDA	40110	19225	57675	Pass

IS Area Report

Batch: 18-0207

Result Table: 18-0207_SIS & 18-0207_SIS_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
399	JU09 CCV	Quality Control	3/29/2018 0:16	13C2-PFDA	43390	19225	57675	Pass
435	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C2-PFDA	32750	19225	57675	Pass
453	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C2-PFDA	37930	19225	57675	Pass
471	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C2-PFDA	44650	19225	57675	Pass
489	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C2-PFDA	25650	19225	57675	Pass
507	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C2-PFDA	31410	19225	57675	Pass
525	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C2-PFDA	35380	19225	57675	Pass
543	JU10 CCV	Quality Control	3/29/2018 1:42	13C2-PFDA	41760	19225	57675	Pass
35	JU04	Standard	3/28/2018 19:46	13C3-PFBA	22390	10370	31110	Pass
53	JU05	Standard	3/28/2018 19:57	13C3-PFBA	19360	10370	31110	Pass
71	JU06	Standard	3/28/2018 20:08	13C3-PFBA	20740	10370	31110	Pass
89	JU07	Standard	3/28/2018 20:19	13C3-PFBA	22300	10370	31110	Pass
107	JU08	Standard	3/28/2018 20:30	13C3-PFBA	19470	10370	31110	Pass
125	JU09	Standard	3/28/2018 20:40	13C3-PFBA	24980	10370	31110	Pass
143	JU10	Standard	3/28/2018 20:51	13C3-PFBA	21600	10370	31110	Pass
161	JU11	Standard	3/28/2018 21:02	13C3-PFBA	22240	10370	31110	Pass
179	JU12	Standard	3/28/2018 21:13	13C3-PFBA	22470	10370	31110	Pass
197	JP83 IB	Quality Control	3/28/2018 21:23	13C3-PFBA	23000	10370	31110	Pass
215	JU13 ICC	Quality Control	3/28/2018 21:34	13C3-PFBA	21670	10370	31110	Pass
233	JU38 Branch	Quality Control	3/28/2018 21:45	13C3-PFBA	21900	10370	31110	Pass
269	CQ320PB-FS(3)	Quality Control	3/28/2018 22:50	13C3-PFBA	20980	10370	31110	Pass
287	CQ321LCS-FS(3)	Quality Control	3/28/2018 23:01	13C3-PFBA	21260	10370	31110	Pass
305	J5387-FS(3)	Quality Control	3/28/2018 23:11	13C3-PFBA	1068000	10370	31110	Fail ¹
323	J5387MS-FS(3)	Quality Control	3/28/2018 23:22	13C3-PFBA	965900	10370	31110	Fail ¹
341	J5387MSD-FS(3)	Quality Control	3/28/2018 23:33	13C3-PFBA	1037000	10370	31110	Fail ¹
359	J5388-FS(3)	Quality Control	3/28/2018 23:44	13C3-PFBA	41620	10370	31110	Fail ¹
377	J5389-FS(3)	Quality Control	3/28/2018 23:54	13C3-PFBA	33570	10370	31110	Fail ¹
395	J5390-FS(3)	Quality Control	3/29/2018 0:05	13C3-PFBA	67750	10370	31110	Fail ¹
413	JU09 CCV	Quality Control	3/29/2018 0:16	13C3-PFBA	25530	10370	31110	Pass
449	J5392-FS(3)	Quality Control	3/29/2018 0:37	13C3-PFBA	23170	10370	31110	Pass
467	J5394-FS(4)	Quality Control	3/29/2018 0:48	13C3-PFBA	146600	10370	31110	Fail ¹
485	J5394-FS-D(5)	Quality Control	3/29/2018 0:59	13C3-PFBA	18180	10370	31110	Pass
503	J5395-FS(3)	Quality Control	3/29/2018 1:10	13C3-PFBA	201800	10370	31110	Fail ¹
521	J5396-FS(3)	Quality Control	3/29/2018 1:21	13C3-PFBA	31620	10370	31110	Fail ¹
539	J5397-FS(3)	Quality Control	3/29/2018 1:31	13C3-PFBA	54880	10370	31110	Fail ¹
557	JU10 CCV	Quality Control	3/29/2018 1:42	13C3-PFBA	19780	10370	31110	Pass

IS Area Report

Batch: 18-0207

Result Table: 18-0207_SIS & 18-0207_SIS_D

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
4	JU04	Standard	3/29/2018 19:46	13C3-PFBA	27720	11490	34470	Pass
6	JU05	Standard	3/29/2018 19:57	13C3-PFBA	30010	11490	34470	Pass
8	JU06	Standard	3/29/2018 20:08	13C3-PFBA	22980	11490	34470	Pass
10	JU07	Standard	3/29/2018 20:19	13C3-PFBA	24680	11490	34470	Pass
12	JU08	Standard	3/29/2018 20:29	13C3-PFBA	22300	11490	34470	Pass
14	JU09	Standard	3/29/2018 20:40	13C3-PFBA	26380	11490	34470	Pass
16	JU10	Standard	3/29/2018 20:51	13C3-PFBA	24160	11490	34470	Pass
18	JU11	Standard	3/29/2018 21:02	13C3-PFBA	19020	11490	34470	Pass
20	JU12	Standard	3/29/2018 21:12	13C3-PFBA	27900	11490	34470	Pass
22	JP83 IB	Quality Control	3/29/2018 21:23	13C3-PFBA	29780	11490	34470	Pass
24	JU13 ICC	Quality Control	3/29/2018 21:34	13C3-PFBA	24700	11490	34470	Pass
26	JU38 Branch	Quality Control	3/29/2018 21:45	13C3-PFBA	24470	11490	34470	Pass
30	J5387-FS-D(5)	Quality Control	3/29/2018 23:22	13C3-PFBA	17270	11490	34470	Pass
32	J5387MS-FS-D(5)	Quality Control	3/29/2018 23:33	13C3-PFBA	21710	11490	34470	Pass
34	J5387MSD-FS-D(5)	Quality Control	3/29/2018 23:43	13C3-PFBA	20960	11490	34470	Pass
36	J5388-FS-D(5)	Quality Control	3/29/2018 23:54	13C3-PFBA	18080	11490	34470	Pass
38	J5389-FS-D(5)	Quality Control	3/30/2018 0:05	13C3-PFBA	17020	11490	34470	Pass
40	J5390-FS-D(5)	Quality Control	3/30/2018 0:16	13C3-PFBA	23680	11490	34470	Pass
42	JU10 CCV	Quality Control	3/30/2018 0:26	13C3-PFBA	22580	11490	34470	Pass
46	J5392-FS-D(5)	Quality Control	3/30/2018 0:48	13C3-PFBA	19550	11490	34470	Pass
48	J5395-FS-D(5)	Quality Control	3/30/2018 0:59	13C3-PFBA	22490	11490	34470	Pass
50	J5396-FS-D(5)	Quality Control	3/30/2018 1:10	13C3-PFBA	20280	11490	34470	Pass
52	J5397-FS-D(5)	Quality Control	3/30/2018 1:20	13C3-PFBA	18880	11490	34470	Pass
54	JU08 CCV	Quality Control	3/30/2018 1:31	13C3-PFBA	20630	11490	34470	Pass

¹ - See Misc Doc DMS 4/4/2018



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	JP83 IB		
Battelle ID	JP83 IB_03/28/2018		
Sample Type	IB		
Collection Date	NA		
Extraction Date	NA		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	NA		
Sample Size	NA		
Size Unit-Basis	NA		
Units	ng/L	LOD	LOQ
PFBA	0.20	0.50	5.00
PFHxA	1.08	0.50	5.00
PFHpA	1.26	0.50	5.00
PFOA	1.11	0.50	5.00
PFNA	1.03	1.00	5.00
PFDA	1.10	0.50	5.00
PFUnA	1.01	1.00	5.00
PFDaA	1.09	0.50	5.00
PFTTrDA	1.05	0.50	5.00
PFTeDA	0.93	1.00	5.00
NMeFOSAA	1.05	2.50	5.00
NEtFOSAA	1.72	1.00	5.00
PFBS	0.95	0.50	5.00
PFHxS	1.00	0.50	5.00
PFOS	1.13	0.50	5.00

ALL RESULTS < 1/2 LOQ

Surrogate Recoveries (%)

13C4-PFBA	104
13C5-PFHxA	87
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	97
13C6-PFDA	101
13C7-PFUnA	100
13C2-PFDoA	95
13C2-PFTeDA	89
d3-MeFOSAA	112
d5-EtFOSAA	93
13C3-PFBS	101
13C3-PFHxS	110
13C8-PFOS	92



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Procedural Blank		
Battelle ID	CQ320PB-FS		
Sample Type	PB		
Collection Date	03/22/2018		
Extraction Date	03/22/2018		
Analysis Date	03/28/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	WATER		
Sample Size	0.250		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.28 J	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.22 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTrDA	0.15 U	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.13 U	0.50	5.00
PFHxS	0.11 U	0.50	5.00
PFOS	0.19 U	0.50	5.00

ALL RESULTS < 1/3 LOQ

Surrogate Recoveries (%)

13C4-PFBA	111
13C5-PFHxA	103
13C4-PFHpA	93
13C8-PFOA	99
13C9-PFNA	99
13C6-PFDA	95
13C7-PFUnA	114
13C2-PFDoA	84
13C2-PFTeDA	54
d3-MeFOSAA	99
d5-EtFOSAA	115
13C3-PFBS	123
13C3-PFHxS	105
13C8-PFOS	119



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Laboratory Control Sample			
Battelle ID	CQ321LCS-FS			
Sample Type	LCS			
Collection Date	03/22/2018			
Extraction Date	03/22/2018			
Analysis Date	03/28/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	Target	Recovery	Qual
PFBA	12.65	10.00	127	
PFHxA	10.67	10.10	106	
PFHpA	9.40	10.00	94	
PFOA	10.03	10.00	100	
PFNA	10.22	10.00	102	
PFDA	11.55	10.00	116	
PFUnA	10.26	10.00	103	
PFDoA	11.07	10.00	111	
PFTTrDA	13.87	10.00	139	
PFTeDA	12.40	10.00	124	
NMeFOSAA	10.41	10.00	104	
NEtFOSAA	10.46	10.00	105	
PFBS	12.57	10.10	124	
PFHxS	10.99	10.10	109	
PFOS	10.66	10.00	107	

70-130% LIMITS

Surrogate Recoveries (%)

13C4-PFBA	108
13C5-PFHxA	98
13C4-PFHpA	89
13C8-PFOA	96
13C9-PFNA	94
13C6-PFDA	103
13C7-PFUnA	109
13C2-PFDoA	98
13C2-PFTeDA	72
d3-MeFOSAA	130
d5-EtFOSAA	127
13C3-PFBS	110
13C3-PFHxS	116
13C8-PFOS	101



Project Client: Tetra Tech
 Project Name: PFAS Analytical w
 Project Number: 100112541

Client ID 06GW08031718

Battelle ID J5387MS-FS
 Sample Type MS
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/28/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.255
 Size Unit-Basis L
 Units ng/L

	ng/L	Target	Recovery	Qual
PFBA	39.38	39.22	100	
PFHxA	33.01	39.61	83	
PFHpA	35.08	39.22	89	
PFOA	83.32	39.22	90	
PFNA	30.44	39.22	77	
PFDA	37.04	39.22	94	
PFUnA	33.60	39.22	86	
PFDoA	37.65	39.22	96	
PFTrDA	49.62	39.22	126	
PFTeDA	46.40	39.22	118	
NMeFOSAA	33.58	39.22	86	
NEtFOSAA	44.77	39.22	114	
PFBS	74.14	39.61	98	
PFHxS	48.00	39.61	121	
PFOS	33.61	39.22	86	

70-130% LIMITS

Surrogate Recoveries (%)

13C4-PFBA	51 D
13C5-PFHxA	65
13C4-PFHpA	89
13C8-PFOA	84
13C9-PFNA	87
13C6-PFDA	83
13C7-PFUnA	97
13C2-PFDoA	99
13C2-PFTeDA	72
d3-MeFOSAA	126
d5-EtFOSAA	98
13C3-PFBS	90
13C3-PFHxS	94
13C8-PFOS	89



Project Client: Tetra Tech
 Project Name: PFAS Analytical w
 Project Number: 100112541

Client ID 06GW08031718

Battelle ID J5387MSD-FS
 Sample Type MSD
 Collection Date 03/17/2018
 Extraction Date 03/22/2018
 Analysis Date 03/28/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix GW
 Sample Size 0.260
 Size Unit-Basis L
 Units ng/L

	ng/L	Target	Recovery	Qual	RPD	Qual
PFBA	41.10	38.46	107		6.8	
PFHxA	31.25	38.85	80		3.7	
PFHpA	35.23	38.46	92		3.3	
PFOA	83.99	38.46	93		3.3	
PFNA	29.76	38.46	76		1.3	
PFDA	36.78	38.46	96		2.1	
PFUnA	33.14	38.46	86		0.0	
PFDoA	35.46	38.46	92		4.3	
PFTrDA	46.11	38.46	119		5.7	
PFTeDA	44.38	38.46	115		2.6	70-130% LIMITS
NMeFOSAA	32.75	38.46	85		1.2	
NEtFOSAA	42.65	38.46	111		2.7	
PFBS	70.34	38.85	90		8.5	
PFHxS	43.26	38.85	111		8.6	
PFOS	31.47	38.46	82		4.8	

Surrogate Recoveries (%)

13C4-PFBA	51 D
13C5-PFHxA	54
13C4-PFHpA	97
13C8-PFOA	84
13C9-PFNA	88
13C6-PFDA	106
13C7-PFUnA	127
13C2-PFDoA	128
13C2-PFTeDA	98
d3-MeFOSAA	139
d5-EtFOSAA	117
13C3-PFBS	103
13C3-PFHxS	108
13C8-PFOS	109

Analyte: PFBS_1 (298.9 / 80.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7067	1.44	7624	25.25000	23.133236	92
JU05	Standard	3/28/2018 7:57:43 PM	9164	1.45	5397	50.50000	55.886592	111
JU06	Standard	3/28/2018 8:08:31 PM	17380	1.44	7137	101.00000	87.163084	86
JU07	Standard	3/28/2018 8:19:19 PM	47000	1.44	8127	252.50000	229.381129	91
JU08	Standard	3/28/2018 8:30:06 PM	80600	1.44	6981	505.00000	474.110294	94
JU09	Standard	3/28/2018 8:40:53 PM	171900	1.44	6174	1010.00000	1166.027800	115
JU10	Standard	3/28/2018 8:51:40 PM	407900	1.44	6280	2525.00000	2741.992350	109
JU11	Standard	3/28/2018 9:02:26 PM	1893000	1.44	7335	10100.00000	10943.205444	108
JU12	Standard	3/28/2018 9:13:13 PM	5352000	1.43	11920	20200.00000	19048.350072	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	20480	1.45	7792	N/A	95.420106	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	158200	1.44	5272	1010.00000	1257.837991	125
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	9613	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	581800	1.43	7825	N/A	3141.399150	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	780700	1.45	3542	N/A	9345.151850	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1610000	1.42	3615	N/A	18905.421746	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1707000	1.42	3960	N/A	18287.474855	N/A

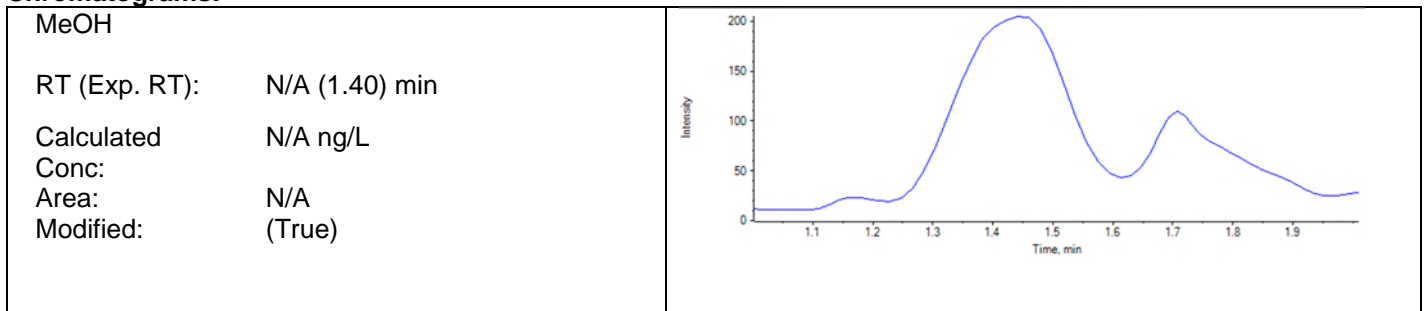
70-130%

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	66640	1.43	8645	N/A	311.142877	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	53170	1.44	5512	N/A	393.438881	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	21380	1.43	8134	N/A	95.367008	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	252200	1.42	9332	1010.00000	1131.720862	112
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	95810	1.43	8740	N/A	449.292866	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	411400	1.43	8240	N/A	2104.379127	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9855	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	150900	1.46	7095	N/A	886.902703	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	168500	1.43	8998	N/A	778.875211	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	68370	1.42	7129	N/A	391.103499	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	587600	1.42	8791	2525.00000	2822.659354	112

70-130%

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: PFBS_2 (298.9 / 99.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2476	1.45	7624	25.25000	22.827342	90
JU05	Standard	3/28/2018 7:57:43 PM	3028	1.44	5397	50.50000	54.920579	109
JU06	Standard	3/28/2018 8:08:31 PM	6129	1.44	7137	101.00000	95.348578	94
JU07	Standard	3/28/2018 8:19:19 PM	15190	1.44	8127	252.50000	232.612471	92
JU08	Standard	3/28/2018 8:30:06 PM	24160	1.44	6981	505.00000	448.640793	89
JU09	Standard	3/28/2018 8:40:53 PM	54390	1.43	6174	1010.00000	1174.990896	116
JU10	Standard	3/28/2018 8:51:40 PM	124800	1.44	6280	2525.00000	2677.209151	106
JU11	Standard	3/28/2018 9:02:26 PM	593400	1.44	7335	10100.00000	10965.358307	109
JU12	Standard	3/28/2018 9:13:13 PM	1679000	1.43	11920	20200.00000	19097.341882	95
JP83 IB	Unknown	3/28/2018 9:23:58 PM	6815	1.45	7792	N/A	97.491492	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	50690	1.44	5272	1010.00000	1284.502581	127
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	1035	1.43	9613	N/A	< 0	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	186500	1.43	7825	N/A	3215.445009	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	29070	1.44	3542	N/A	1093.439452	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	340900	1.40	3615	N/A	12787.443950	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	364100	1.40	3960	N/A	12465.046260	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	22380	1.43	8645	N/A	330.342657	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	4634	1.44	5512	N/A	92.902015	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	5997	1.43	8134	N/A	78.831128	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	81780	1.42	9332	1010.00000	1168.897379	116
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	27690	1.43	8740	N/A	408.953049	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	108700	1.42	8240	N/A	1770.370560	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9855	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	31080	1.42	7095	N/A	573.683844	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	41890	1.42	8998	N/A	610.949885	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	3848	1.41	7129	N/A	52.022389	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	187400	1.42	8791	2525.00000	2873.933340	114

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram displays a single prominent peak at a retention time of 1.40 minutes. The y-axis represents 'Intensity' ranging from 0 to 120, and the x-axis represents 'Time, min' ranging from approximately 1.0 to 1.9. The peak at 1.40 min reaches an intensity of approximately 115. There are smaller, broader peaks or shoulders around 1.35 and 1.75 minutes.</p>
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Analyte: PFHxA_1 (313.0 / 269.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7519	1.72	26380	25.25000	29.323363	116
JU05	Standard	3/28/2018 7:57:43 PM	10560	1.72	20490	50.50000	54.845712	109
JU06	Standard	3/28/2018 8:08:31 PM	20920	1.72	22020	101.00000	103.073511	102
JU07	Standard	3/28/2018 8:19:19 PM	52000	1.71	23110	252.50000	247.279848	98
JU08	Standard	3/28/2018 8:30:06 PM	89040	1.71	23570	505.00000	416.678143	83
JU09	Standard	3/28/2018 8:40:53 PM	195500	1.71	23600	1010.00000	916.426719	91
JU10	Standard	3/28/2018 8:51:40 PM	481100	1.71	21960	2525.00000	2427.864390	96
JU11	Standard	3/28/2018 9:02:26 PM	2237000	1.71	22520	10100.00000	11013.601074	109
JU12	Standard	3/28/2018 9:13:13 PM	6149000	1.70	34860	20200.00000	19560.157239	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	24050	1.72	24230	N/A	107.804579	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	188900	1.71	20340	1010.00000	1027.676684	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	25490	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	28710	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	642200	1.71	26680	N/A	2666.972250	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	7903	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	592400	1.67	7804	N/A	8416.887747	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	680000	1.67	9280	N/A	8124.381611	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	76610	1.70	27880	N/A	302.476811	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	91430	1.70	21900	N/A	460.862254	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	25170	1.70	31110	N/A	87.436032	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	294800	1.70	34120	1010.00000	956.025217	95
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	105700	1.70	25840	N/A	451.568125	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	2294000	1.70	32700	N/A	7780.631221	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	33950	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	834900	1.69	17300	N/A	5349.342042	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	562600	1.70	28190	N/A	2211.471198	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	131300	1.68	35380	N/A	409.415104	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	723300	1.70	33030	2525.00000	2426.640285	96

Dilution not needed. DMS 4/4/2018

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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Analyte: PFHxA_2 (313.0 / 119.0)

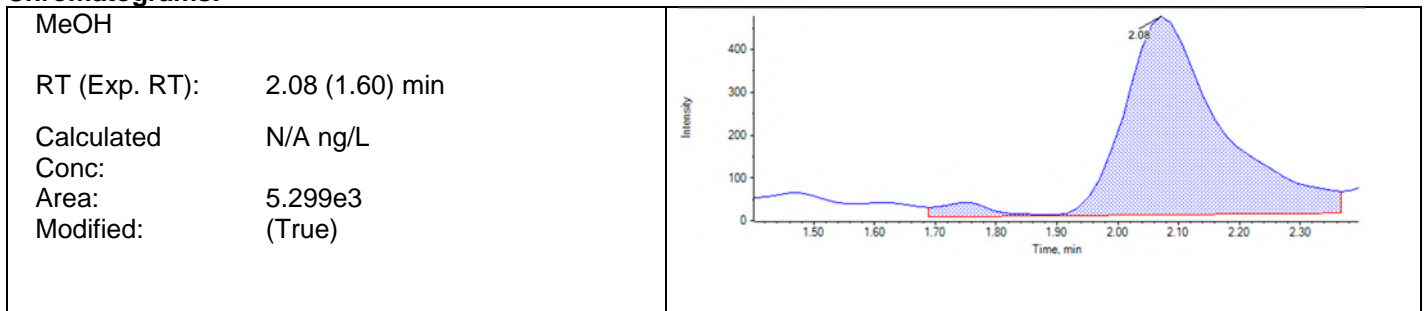
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	5299	2.08	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	445	1.70	26380	25.25000	25.788130	102
JU05	Standard	3/28/2018 7:57:43 PM	824	1.71	20490	50.50000	61.613692	122
JU06	Standard	3/28/2018 8:08:31 PM	1410	1.71	22020	101.00000	98.228932	97
JU07	Standard	3/28/2018 8:19:19 PM	4119	1.71	23110	252.50000	273.750615	108
JU08	Standard	3/28/2018 8:30:06 PM	5819	1.71	23570	505.00000	379.136656	75
JU09	Standard	3/28/2018 8:40:53 PM	13940	1.71	23600	1010.00000	907.452133	90
JU10	Standard	3/28/2018 8:51:40 PM	36130	1.71	21960	2525.00000	2528.019149	100
JU11	Standard	3/28/2018 9:02:26 PM	160400	1.71	22520	10100.00000	10944.260977	108
JU12	Standard	3/28/2018 9:13:13 PM	443600	1.70	34860	20200.00000	19550.999717	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1406	1.72	24230	N/A	88.985754	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	12210	1.71	20340	1010.00000	922.117767	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	772	1.72	25490	N/A	46.384834	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	28710	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	43610	1.70	26680	N/A	2510.851587	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	12040	1.67	7903	N/A	2340.372447	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	59340	1.67	7804	N/A	11682.783952	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	63710	1.67	9280	N/A	10547.859185	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	5547	1.70	27880	N/A	305.553495	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5821	1.69	21900	N/A	408.289222	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	2387	1.69	31110	N/A	117.751968	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	21470	1.70	34120	1010.00000	966.802955	96
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	8799	1.70	25840	N/A	523.014401	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	158000	1.70	32700	N/A	7423.578473	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	33950	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	54040	1.69	17300	N/A	4798.242408	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	38900	1.70	28190	N/A	2120.279281	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	4998	1.69	35380	N/A	216.892300	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	51060	1.70	33030	2525.00000	2375.430661	94

Chromatograms:



Analyte: PFHpA_1 (363.0 / 319.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	5627	2.08	31110	25.00000	56.060215	224
JU05	Standard	3/28/2018 7:57:43 PM	8538	2.09	26830	50.00000	75.562014	151
JU06	Standard	3/28/2018 8:08:31 PM	18530	2.09	27320	100.00000	126.677290	127
JU07	Standard	3/28/2018 8:19:19 PM	47710	2.08	30630	250.00000	251.606443	101
JU08	Standard	3/28/2018 8:30:06 PM	79390	2.08	27800	500.00000	435.826509	87
JU09	Standard	3/28/2018 8:40:53 PM	166000	2.08	26380	1000.00000	923.643237	92
JU10	Standard	3/28/2018 8:51:40 PM	385600	2.08	24570	2500.00000	2258.900966	90
JU11	Standard	3/28/2018 9:02:26 PM	1636000	2.08	22840	10000.00000	10205.548132	102
JU12	Standard	3/28/2018 9:13:13 PM	4278000	2.07	30190	20000.00000	20147.797423	101
JP83 IB	Unknown	3/28/2018 9:23:58 PM	21430	2.09	31870	N/A	125.876331	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	142600	2.07	25020	1000.00000	839.489644	84
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	33220	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	31720	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	488600	2.07	29920	N/A	2349.066073	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	15760	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	988800	2.04	15750	N/A	8945.520028	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1051000	2.04	16350	N/A	9158.576015	N/A

Not being used in this calibration.
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	20470	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	19970	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33900	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	210900	2.07	33260	1000.00000	930.789495	93
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	95620	2.07	22570	N/A	631.979023	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	1161000	2.07	25280	N/A	6551.347183	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	30160	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	680500	2.06	19820	N/A	4906.615264	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	244000	2.07	22370	N/A	1579.101195	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	78680	2.05	26180	N/A	457.195105	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	502500	2.06	30970	2500.00000	2333.954092	93

Dilution not needed. DMS 4/4/2018

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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Analyte: PFHpA_2 (363.0 / 169.0)

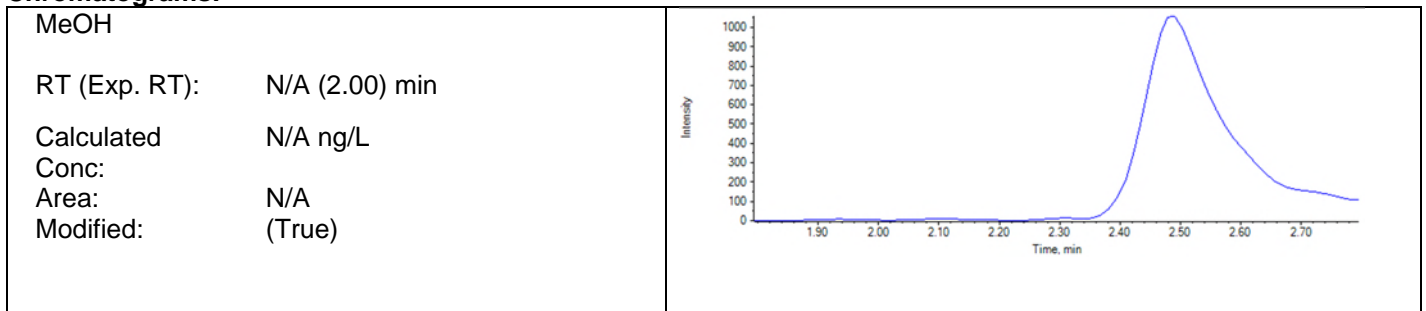
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	192	2.11	31110	25.00000	67.441088	270
JU05	Standard	3/28/2018 7:57:43 PM	158	2.09	26830	50.00000	65.434860	131
JU06	Standard	3/28/2018 8:08:31 PM	343	2.07	27320	100.00000	109.865247	110
JU07	Standard	3/28/2018 8:19:19 PM	1111	2.08	30630	250.00000	268.022015	107
JU08	Standard	3/28/2018 8:30:06 PM	2076	2.07	27800	500.00000	524.009955	105
JU09	Standard	3/28/2018 8:40:53 PM	3394	2.08	26380	1000.00000	883.574575	88
JU10	Standard	3/28/2018 8:51:40 PM	7839	2.08	24570	2500.00000	2152.378430	86
JU11	Standard	3/28/2018 9:02:26 PM	35280	2.08	22840	10000.00000	10322.122471	103
JU12	Standard	3/28/2018 9:13:13 PM	90890	2.07	30190	20000.00000	20090.027307	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	328	2.08	31870	N/A	94.899571	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	3372	2.07	25020	1000.00000	924.227498	92
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	33220	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	31720	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	10500	2.08	29920	N/A	2363.979670	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	128300	2.00	15760	N/A	54305.223478	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	146900	2.01	15750	N/A	62212.817439	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	149100	2.02	16350	N/A	60827.800907	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	20470	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	19970	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33900	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	4354	2.07	33260	1000.00000	898.756827	90
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	2107	2.06	22570	N/A	648.521770	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	32510	2.04	25280	N/A	8598.709518	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	30160	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	43770	2.04	19820	N/A	14748.978763	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	6717	2.06	22370	N/A	2027.083992	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	2284	2.03	26180	N/A	607.877117	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	11590	2.07	30970	2500.00000	2519.991756	101

Chromatograms:



Analyte: PFHxS_1 (399.0 / 80.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	9346	2.11	7553	25.25000	22.937318	91
JU05	Standard	3/28/2018 7:57:43 PM	12150	2.11	5805	50.50000	49.075900	97
JU06	Standard	3/28/2018 8:08:31 PM	24790	2.11	7235	101.00000	89.812255	89
JU07	Standard	3/28/2018 8:19:19 PM	65320	2.10	7386	252.50000	255.369183	101
JU08	Standard	3/28/2018 8:30:06 PM	106600	2.10	6117	505.00000	517.625925	103
JU09	Standard	3/28/2018 8:40:53 PM	221500	2.10	5931	1010.00000	1126.539821	112
JU10	Standard	3/28/2018 8:51:40 PM	488600	2.10	5457	2525.00000	2721.490627	108
JU11	Standard	3/28/2018 9:02:26 PM	2032000	2.10	5943	10100.00000	10433.642448	103
JU12	Standard	3/28/2018 9:13:13 PM	5229000	2.09	8166	20200.00000	19552.756523	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	28850	2.10	7679	N/A	99.915086	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	206100	2.09	5805	1010.00000	1070.135156	106
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1023000	2.09	6589	N/A	4728.838426	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	971	2.09	7379	N/A	< 0	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	652200	2.10	7217	N/A	2746.838656	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	3862	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1385000	2.06	3453	N/A	12239.282027	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1524000	2.06	4136	N/A	11246.800899	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	645400	2.09	6631	N/A	2958.990243	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	32470	2.09	4202	N/A	221.214227	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	21520	2.09	6422	N/A	87.520752	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	262200	2.09	7008	1010.00000	1128.316666	112
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	59490	2.09	5301	N/A	328.038788	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	530900	2.09	7747	N/A	2079.149678	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	7281	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	235200	2.08	3937	N/A	1811.097651	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	194200	2.09	5121	N/A	1144.231907	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	31150	2.07	7852	N/A	106.349723	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	616900	2.09	7136	2525.00000	2626.866885	104

Dilution not needed. DMS 4/4/2018

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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Analyte: PFHxS_2 (399.0 / 99.0)

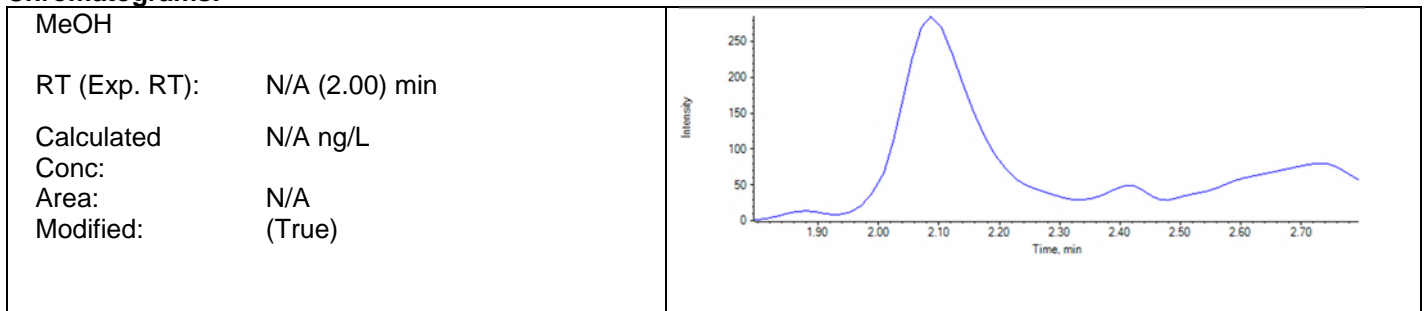
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2654	2.10	7553	25.25000	21.106561	84
JU05	Standard	3/28/2018 7:57:43 PM	4183	2.11	5805	50.50000	60.509038	120
JU06	Standard	3/28/2018 8:08:31 PM	6508	2.11	7235	101.00000	79.595844	79
JU07	Standard	3/28/2018 8:19:19 PM	17670	2.10	7386	252.50000	238.852883	95
JU08	Standard	3/28/2018 8:30:06 PM	28860	2.10	6117	505.00000	486.949855	96
JU09	Standard	3/28/2018 8:40:53 PM	65790	2.10	5931	1010.00000	1167.168355	116
JU10	Standard	3/28/2018 8:51:40 PM	143900	2.10	5457	2525.00000	2796.910116	111
JU11	Standard	3/28/2018 9:02:26 PM	589600	2.10	5943	10100.00000	10568.937184	105
JU12	Standard	3/28/2018 9:13:13 PM	1482000	2.09	8166	20200.00000	19349.220166	96
JP83 IB	Unknown	3/28/2018 9:23:58 PM	7810	2.11	7679	N/A	92.141423	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	59840	2.09	5805	1010.00000	1083.447800	107
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	300500	2.09	6589	N/A	4849.920283	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7379	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	193600	2.09	7217	N/A	2845.457639	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	13530	2.05	3862	N/A	357.417082	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	424500	2.06	3453	N/A	13102.115121	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	495400	2.06	4136	N/A	12765.610500	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	182800	2.09	6631	N/A	2924.545378	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	9094	2.09	4202	N/A	214.526343	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	6378	2.10	6422	N/A	89.582777	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	77580	2.09	7008	1010.00000	1164.747548	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	16350	2.09	5301	N/A	312.782296	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	134800	2.09	7747	N/A	1839.848413	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	7281	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	78840	2.08	3937	N/A	2120.514787	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	56850	2.09	5121	N/A	1168.309503	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	7418	2.08	7852	N/A	84.419055	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	179300	2.09	7136	2525.00000	2664.600384	106

Chromatograms:



Analyte: PFOA_1 (413.0 / 369.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

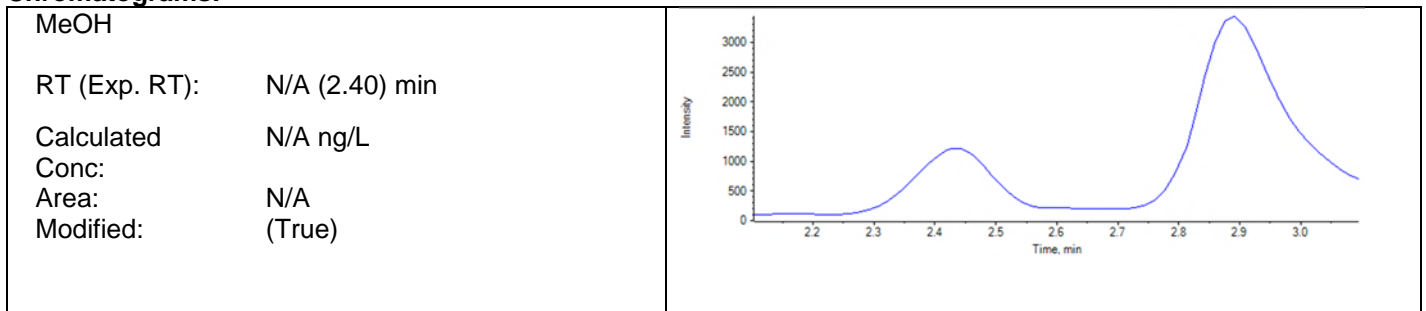
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	10060	2.46	31110	25.00000	47.399545	190
JU05	Standard	3/28/2018 7:57:43 PM	13130	2.46	26830	50.00000	64.906343	130
JU06	Standard	3/28/2018 8:08:31 PM	23410	2.46	27320	100.00000	103.754820	104
JU07	Standard	3/28/2018 8:19:19 PM	67390	2.46	30630	250.00000	245.616257	98
JU08	Standard	3/28/2018 8:30:06 PM	104900	2.46	27800	500.00000	411.578937	82
JU09	Standard	3/28/2018 8:40:53 PM	230400	2.45	26380	1000.00000	935.494107	94
JU10	Standard	3/28/2018 8:51:40 PM	511600	2.46	24570	2500.00000	2212.000554	88
JU11	Standard	3/28/2018 9:02:26 PM	2233000	2.45	22840	10000.00000	10341.505236	103
JU12	Standard	3/28/2018 9:13:13 PM	5739000	2.45	30190	20000.00000	20085.143746	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	29440	2.46	31870	N/A	110.785931	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	207400	2.45	25020	1000.00000	888.391572	89
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	2334000	2.41	33220	N/A	7433.586415	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	12460	2.45	31720	N/A	54.711400	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	706600	2.45	29920	N/A	2507.301289	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1901000	2.42	15760	N/A	12751.784036	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	3166000	2.42	15750	N/A	21245.942945	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	3378000	2.42	16350	N/A	21838.602259	N/A

Not being used in this calibration.
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	428700	2.44	20470	N/A	2225.196740	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	1799000	2.44	19970	N/A	9527.843107	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	75830	2.44	33900	N/A	249.436560	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	276600	2.44	33260	1000.00000	891.421762	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	252000	2.44	22570	N/A	1192.469092	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	47790000	2.44	25280	N/A	199689.983190	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	2294000	2.44	30160	N/A	8047.221486	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	19820	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	3531000	2.44	22370	N/A	16678.371790	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	2620000	2.43	26180	N/A	10583.206112	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	667900	2.44	30970	2500.00000	2290.433913	92

Chromatograms:



Analyte: PFOA_2 (413.0 / 169.0)

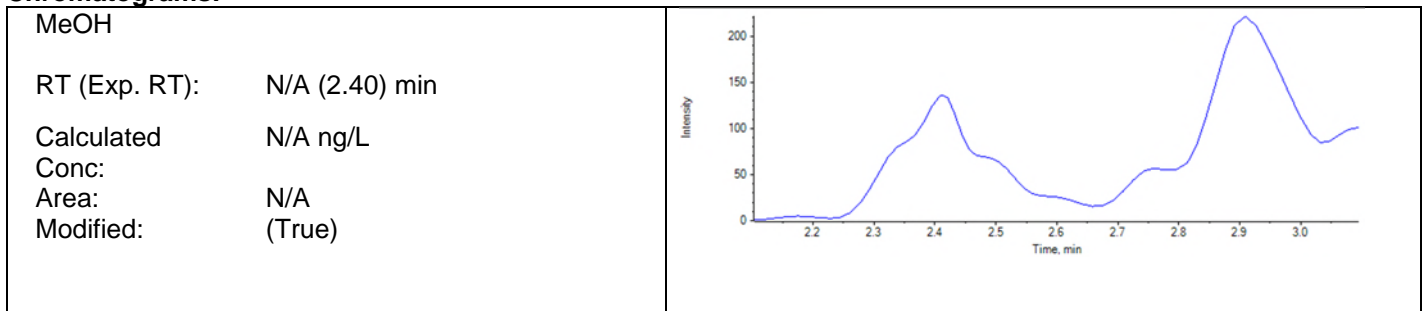
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1266	2.46	31110	25.00000	77.120888	308
JU05	Standard	3/28/2018 7:57:43 PM	560	2.46	26830	50.00000	46.202837	92
JU06	Standard	3/28/2018 8:08:31 PM	2029	2.46	27320	100.00000	129.513486	130
JU07	Standard	3/28/2018 8:19:19 PM	4652	2.46	30630	250.00000	250.652124	100
JU08	Standard	3/28/2018 8:30:06 PM	7548	2.45	27800	500.00000	437.291935	87
JU09	Standard	3/28/2018 8:40:53 PM	15620	2.45	26380	1000.00000	937.461254	94
JU10	Standard	3/28/2018 8:51:40 PM	36670	2.45	24570	2500.00000	2342.170705	94
JU11	Standard	3/28/2018 9:02:26 PM	151000	2.45	22840	10000.00000	10329.022157	103
JU12	Standard	3/28/2018 9:13:13 PM	385300	2.45	30190	20000.00000	19927.685501	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	2095	2.46	31870	N/A	116.174274	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	14710	2.45	25020	1000.00000	931.192244	93
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	232900	2.39	33220	N/A	10956.802097	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	1395	2.44	31720	N/A	82.260050	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	49860	2.45	29920	N/A	2614.105549	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	162700	2.41	15760	N/A	16119.592668	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	250400	2.41	15750	N/A	24822.298991	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	266300	2.42	16350	N/A	25430.879048	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	43570	2.43	20470	N/A	3334.937832	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	173000	2.42	19970	N/A	13530.993021	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	8405	2.43	33900	N/A	400.471361	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	20330	2.44	33260	1000.00000	967.593144	97
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	22130	2.44	22570	N/A	1543.412665	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	5219000	2.41	25280	N/A	322211.454773	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	30160	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	247400	2.43	19820	N/A	19499.512586	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	334800	2.43	22370	N/A	23364.390661	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	248700	2.41	26180	N/A	14838.844043	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	47970	2.44	30970	2500.00000	2430.516236	97

Chromatograms:



Analyte: PFNA_1 (463.0 / 419.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

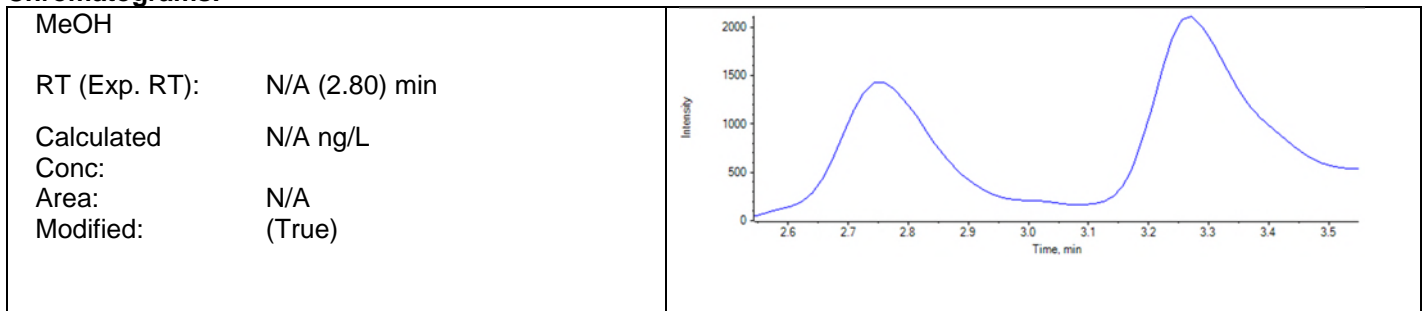
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11170	2.83	38690	25.00000	26.408705	106
JU05	Standard	3/28/2018 7:57:43 PM	18100	2.84	31190	50.00000	57.571578	115
JU06	Standard	3/28/2018 8:08:31 PM	35880	2.84	33210	100.00000	110.965588	111
JU07	Standard	3/28/2018 8:19:19 PM	79620	2.84	38790	250.00000	214.792597	86
JU08	Standard	3/28/2018 8:30:06 PM	143700	2.84	32180	500.00000	472.424505	94
JU09	Standard	3/28/2018 8:40:53 PM	292500	2.84	34990	1000.00000	888.246591	89
JU10	Standard	3/28/2018 8:51:40 PM	664100	2.84	29550	2500.00000	2395.783223	96
JU11	Standard	3/28/2018 9:02:26 PM	2806000	2.84	28850	10000.00000	10380.894532	104
JU12	Standard	3/28/2018 9:13:13 PM	6765000	2.83	36340	20000.00000	19877.912682	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37930	2.84	37790	N/A	102.780857	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	266100	2.83	31570	1000.00000	895.801694	90
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	2469000	2.73	35440	N/A	7438.039817	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	38790	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	855000	2.83	35680	N/A	2554.783638	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	19680	2.82	17600	N/A	115.008655	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1445000	2.81	19870	N/A	7762.805852	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1520000	2.81	20970	N/A	7737.757791	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	21360	2.83	24970	N/A	86.976805	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	19970	2.82	20680	N/A	98.714403	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	11650	2.83	35790	N/A	30.345257	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	351300	2.82	39780	1000.00000	938.630977	94
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	8952	2.83	25080	N/A	33.699982	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	70960	2.74	27810	N/A	268.071902	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	35760	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	20880	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	26180	2.76	22840	N/A	118.039692	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	14610	2.81	30060	N/A	47.487412	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	825300	2.82	37290	2500.00000	2359.216259	94

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: PFNA_2 (463.0 / 219.0)

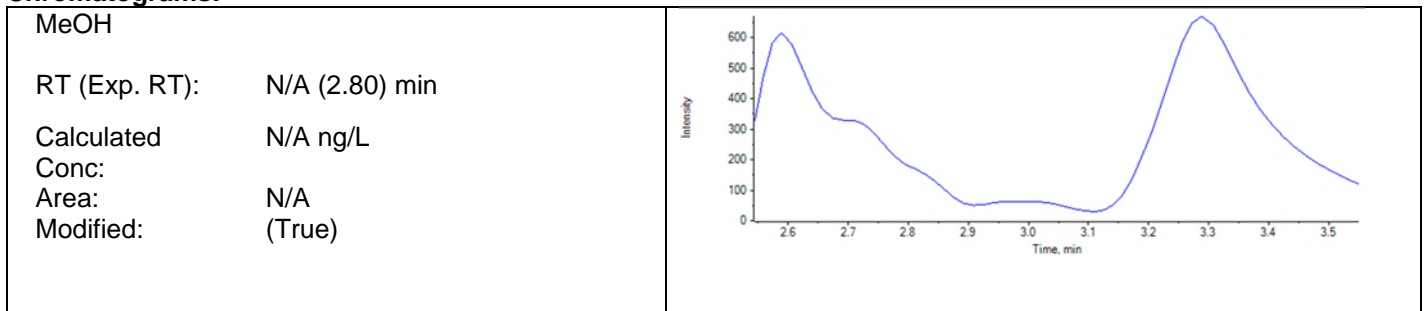
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	3744	2.84	38690	25.00000	28.172571	113
JU05	Standard	3/28/2018 7:57:43 PM	5644	2.84	31190	50.00000	58.909086	118
JU06	Standard	3/28/2018 8:08:31 PM	10370	2.84	33210	100.00000	106.814777	107
JU07	Standard	3/28/2018 8:19:19 PM	24150	2.84	38790	250.00000	220.169138	88
JU08	Standard	3/28/2018 8:30:06 PM	40990	2.84	32180	500.00000	457.975669	92
JU09	Standard	3/28/2018 8:40:53 PM	82460	2.84	34990	1000.00000	853.213868	85
JU10	Standard	3/28/2018 8:51:40 PM	191200	2.84	29550	2500.00000	2354.800788	94
JU11	Standard	3/28/2018 9:02:26 PM	818800	2.83	28850	10000.00000	10355.167921	104
JU12	Standard	3/28/2018 9:13:13 PM	1990000	2.83	36340	20000.00000	19989.776181	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	12180	2.84	37790	N/A	110.520101	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	79040	2.83	31570	1000.00000	907.121359	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	35440	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	38790	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	247500	2.83	35680	N/A	2525.188820	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	17600	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	426100	2.81	19870	N/A	7821.764498	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	438200	2.82	20970	N/A	7622.253545	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	6692	2.82	24970	N/A	90.702700	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5466	2.83	20680	N/A	89.336076	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	3581	2.83	35790	N/A	29.366866	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	102000	2.82	39780	1000.00000	928.798638	93
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	2610	2.83	25080	N/A	30.835030	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	27810	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	35760	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	20880	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	22840	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	4631	2.81	30060	N/A	49.095832	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	235200	2.82	37290	2500.00000	2295.800040	92

Chromatograms:



Analyte: PFOS_1 (499.0 / 80.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	17760	2.80	11100	25.00000	40.862354	163
JU05	Standard	3/28/2018 7:57:43 PM	19440	2.83	8265	50.00000	59.585154	119
JU06	Standard	3/28/2018 8:08:31 PM	38310	2.84	7900	100.00000	121.841415	122
JU07	Standard	3/28/2018 8:19:19 PM	87110	2.84	9573	250.00000	227.760706	91
JU08	Standard	3/28/2018 8:30:06 PM	143400	2.83	8211	500.00000	436.117197	87
JU09	Standard	3/28/2018 8:40:53 PM	310700	2.83	8161	1000.00000	949.783027	95
JU10	Standard	3/28/2018 8:51:40 PM	717300	2.83	8987	2500.00000	1989.930640	80
JU11	Standard	3/28/2018 9:02:26 PM	2827000	2.83	6646	10000.00000	10602.023283	106
JU12	Standard	3/28/2018 9:13:13 PM	6893000	2.83	8583	20000.00000	20012.958577	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37500	2.84	8334	N/A	113.116922	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	293400	2.83	8239	1000.00000	888.359793	89
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	5743000	2.72	8675	N/A	16499.025614	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	2954	2.75	10890	N/A	7.746986	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	878900	2.83	8218	N/A	2666.091713	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	4370	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1437000	2.81	4179	N/A	8571.775769	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1625000	2.81	4950	N/A	8181.911820	N/A

Not being used in this calibration.
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	56470	2.76	7901	N/A	179.084030	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	253200	2.78	5953	N/A	1061.034530	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	138600	2.79	8884	N/A	389.839482	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	359200	2.82	9970	1000.00000	898.867250	90
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	210900	2.71	7919	N/A	664.727323	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	725600	2.79	7021	N/A	2576.314495	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9554	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	594400	2.78	5037	N/A	2941.712559	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	225000	2.71	8203	N/A	684.609667	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	389000	2.77	8823	N/A	1099.822448	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	798700	2.82	8566	2500.00000	2324.753879	93

Dilution not needed.
 DMS
 4/4/2018

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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Analyte: PFOS_2 (499.0 / 99.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	3212	2.83	11100	25.00000	44.685540	179
JU05	Standard	3/28/2018 7:57:43 PM	3028	2.84	8265	50.00000	54.284882	109
JU06	Standard	3/28/2018 8:08:31 PM	7349	2.84	7900	100.00000	124.600002	125
JU07	Standard	3/28/2018 8:19:19 PM	16240	2.84	9573	250.00000	220.153966	88
JU08	Standard	3/28/2018 8:30:06 PM	31680	2.84	8211	500.00000	489.624992	98
JU09	Standard	3/28/2018 8:40:53 PM	62630	2.84	8161	1000.00000	965.520411	97
JU10	Standard	3/28/2018 8:51:40 PM	139500	2.84	8987	2500.00000	1944.107796	78
JU11	Standard	3/28/2018 9:02:26 PM	570100	2.83	6646	10000.00000	10703.751120	107
JU12	Standard	3/28/2018 9:13:13 PM	1369000	2.83	8583	20000.00000	19897.956831	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	8786	2.84	8334	N/A	140.049449	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	56220	2.83	8239	1000.00000	859.359202	86
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	741100	2.76	8675	N/A	10660.137967	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	10890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	178900	2.83	8218	N/A	2722.546023	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	12870	2.80	4370	N/A	375.702987	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	297200	2.81	4179	N/A	8873.929199	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	343300	2.82	4950	N/A	8655.768214	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	7149	2.79	7901	N/A	121.424052	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	46100	2.82	5953	N/A	974.087117	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	24940	2.83	8884	N/A	358.607984	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	74500	2.82	9970	1000.00000	940.190701	94
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	32370	2.78	7919	N/A	518.150316	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	126900	2.82	7021	N/A	2262.645932	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	9554	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	110300	2.82	5037	N/A	2738.953627	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	35250	2.77	8203	N/A	544.338528	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	62290	2.81	8823	N/A	888.781723	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	159600	2.82	8566	2500.00000	2331.526220	93

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
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Analyte: PFDA_1 (513.0 / 469.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

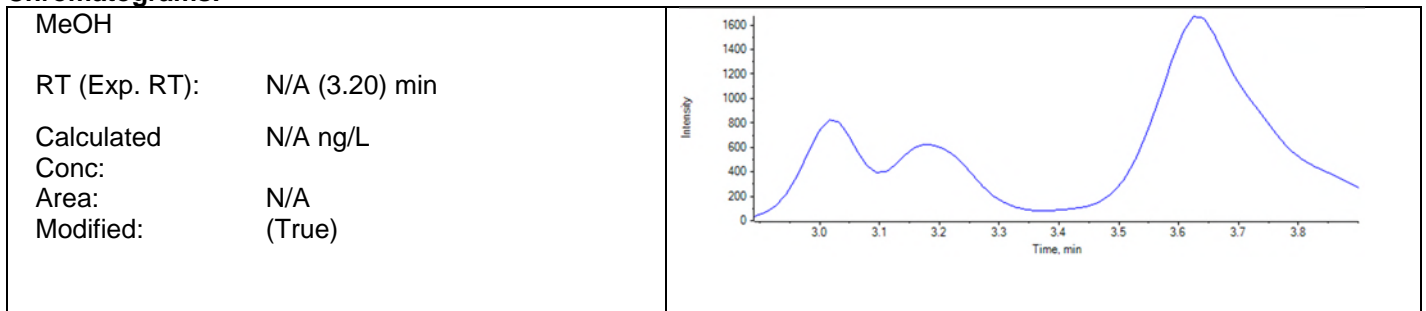
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	9264	3.20	41120	25.00000	24.035377	96
JU05	Standard	3/28/2018 7:57:43 PM	17390	3.20	33440	50.00000	57.556930	115
JU06	Standard	3/28/2018 8:08:31 PM	32810	3.20	38860	100.00000	94.427831	94
JU07	Standard	3/28/2018 8:19:19 PM	84490	3.19	43560	250.00000	219.062611	88
JU08	Standard	3/28/2018 8:30:06 PM	151800	3.19	34900	500.00000	493.107586	99
JU09	Standard	3/28/2018 8:40:53 PM	333000	3.19	34640	1000.00000	1091.945398	109
JU10	Standard	3/28/2018 8:51:40 PM	752700	3.19	36190	2500.00000	2364.046126	95
JU11	Standard	3/28/2018 9:02:26 PM	3002000	3.19	31670	10000.00000	10781.952515	108
JU12	Standard	3/28/2018 9:13:13 PM	7348000	3.18	43310	20000.00000	19298.865625	96
JP83 IB	Unknown	3/28/2018 9:23:58 PM	41270	3.19	42230	N/A	109.548645	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	293100	3.18	34370	1000.00000	968.491035	97
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1478000	3.01	42960	N/A	3911.237521	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	44320	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	1061000	3.18	41760	N/A	2887.097865	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	22660	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1681000	3.16	20230	N/A	9445.621859	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1996000	3.17	23740	N/A	9563.674407	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	19610	3.18	26590	N/A	82.298145	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	17010	3.18	24310	N/A	78.028752	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	7355	3.18	38120	N/A	20.355026	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	379100	3.17	42380	1000.00000	1015.972793	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	28240	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	33430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	39800	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	26010	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	5755	3.17	22830	N/A	27.084193	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	10670	3.16	32460	N/A	35.799489	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	927100	3.17	42350	2500.00000	2488.704173	100

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: PFDA_2 (513.0 / 219.0)

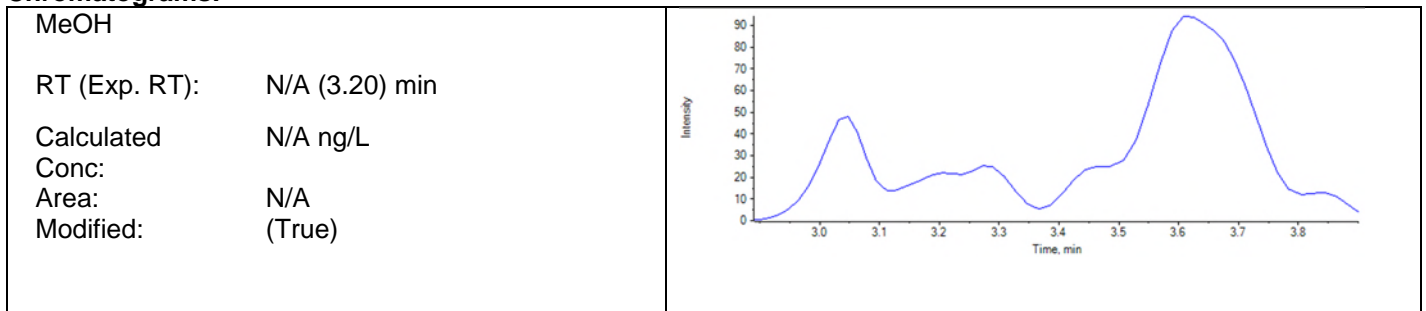
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	317	3.23	41120	25.00000	25.433676	102
JU05	Standard	3/28/2018 7:57:43 PM	716	3.19	33440	50.00000	62.066931	124
JU06	Standard	3/28/2018 8:08:31 PM	1275	3.20	38860	100.00000	92.544003	93
JU07	Standard	3/28/2018 8:19:19 PM	3213	3.19	43560	250.00000	201.954782	81
JU08	Standard	3/28/2018 8:30:06 PM	6367	3.18	34900	500.00000	492.412977	98
JU09	Standard	3/28/2018 8:40:53 PM	14040	3.19	34640	1000.00000	1087.996321	109
JU10	Standard	3/28/2018 8:51:40 PM	30510	3.19	36190	2500.00000	2257.225740	90
JU11	Standard	3/28/2018 9:02:26 PM	123700	3.19	31670	10000.00000	10441.486410	104
JU12	Standard	3/28/2018 9:13:13 PM	320200	3.18	43310	20000.00000	19763.879159	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1289	3.18	42230	N/A	86.413826	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	12430	3.18	34370	1000.00000	970.897019	97
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	23060	3.01	42960	N/A	1439.438588	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	44320	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	45530	3.18	41760	N/A	2917.951570	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	22660	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	79120	3.16	20230	N/A	10453.427617	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	95190	3.17	23740	N/A	10719.845750	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	660	3.16	26590	N/A	71.148605	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	24310	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	38120	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	16040	3.17	42380	1000.00000	1016.259107	102
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	28240	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	33430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	39800	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	26010	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	22830	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32460	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	38720	3.17	42350	2500.00000	2448.089400	98

Chromatograms:



Analyte: PFUnA_1 (563.0 / 519.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

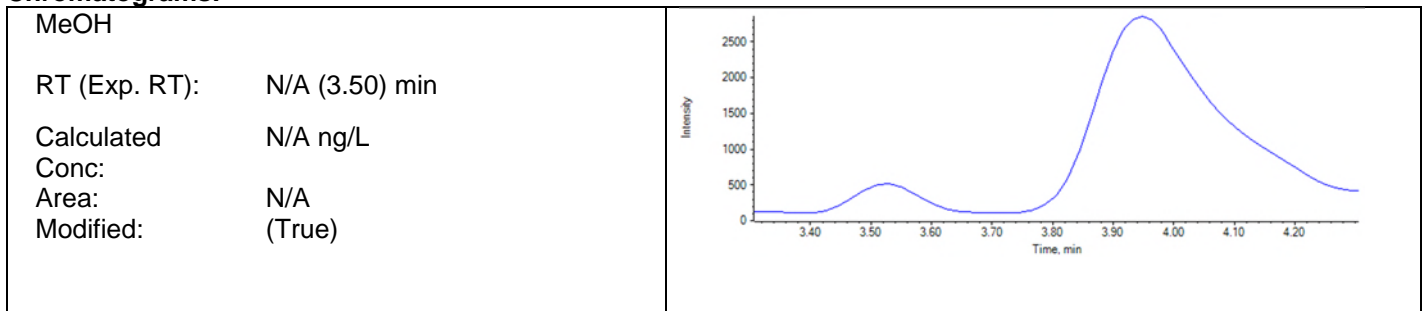
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	12410	3.52	40580	25.00000	30.539769	122
JU05	Standard	3/28/2018 7:57:43 PM	16190	3.53	31740	50.00000	53.213871	106
JU06	Standard	3/28/2018 8:08:31 PM	28790	3.52	35100	100.00000	87.727520	88
JU07	Standard	3/28/2018 8:19:19 PM	85240	3.52	38440	250.00000	243.008644	97
JU08	Standard	3/28/2018 8:30:06 PM	143900	3.52	32460	500.00000	489.433442	98
JU09	Standard	3/28/2018 8:40:53 PM	300800	3.52	36320	1000.00000	916.880554	92
JU10	Standard	3/28/2018 8:51:40 PM	694600	3.52	33050	2500.00000	2332.216351	93
JU11	Standard	3/28/2018 9:02:26 PM	2965000	3.52	31520	10000.00000	10451.781599	105
JU12	Standard	3/28/2018 9:13:13 PM	7559000	3.51	42390	20000.00000	19820.198250	99
JP83 IB	Unknown	3/28/2018 9:23:58 PM	37670	3.51	40120	N/A	100.916039	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	286200	3.51	32470	1000.00000	976.450413	98
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	42020	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	50580	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	975600	3.51	42220	N/A	2565.123738	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	23300	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1737000	3.50	22520	N/A	8568.518526	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	2083000	3.50	26860	N/A	8616.303464	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	20120	3.51	26730	N/A	80.194138	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	27350	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	40910	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	351600	3.50	43680	1000.00000	891.340205	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	29010	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	31700	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	41520	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	29280	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	24000	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	40770	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	822000	3.50	40250	2500.00000	2266.753364	91

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: PFUnA_2 (563.0 / 269.0)

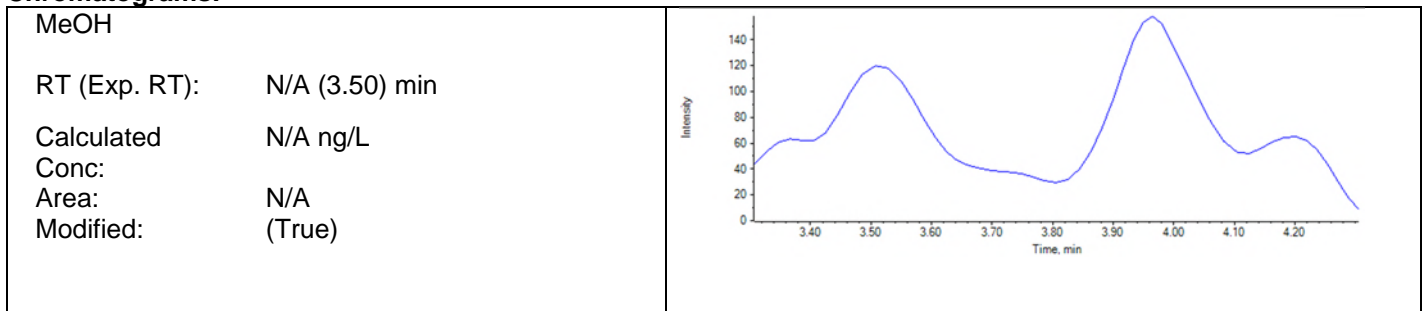
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	N/A	N/A	40580	25.00000	N/A	N/A
JU05	Standard	3/28/2018 7:57:43 PM	N/A	N/A	31740	50.00000	N/A	N/A
JU06	Standard	3/28/2018 8:08:31 PM	1079	3.51	35100	100.00000	88.805487	89
JU07	Standard	3/28/2018 8:19:19 PM	3588	3.52	38440	250.00000	247.271558	99
JU08	Standard	3/28/2018 8:30:06 PM	6420	3.53	32460	500.00000	511.823131	102
JU09	Standard	3/28/2018 8:40:53 PM	14490	3.52	36320	1000.00000	1021.078885	102
JU10	Standard	3/28/2018 8:51:40 PM	34730	3.52	33050	2500.00000	2671.784446	107
JU11	Standard	3/28/2018 9:02:26 PM	129100	3.52	31520	10000.00000	10379.162990	104
JU12	Standard	3/28/2018 9:13:13 PM	325000	3.51	42390	20000.00000	19430.073503	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1499	3.51	40120	N/A	105.515754	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	11550	3.51	32470	1000.00000	911.568164	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	42020	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	50580	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	50210	3.51	42220	N/A	3022.869319	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	23300	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	90600	3.50	22520	N/A	10201.535412	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	106900	3.50	26860	N/A	10093.449498	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	26730	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	27350	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	40910	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	15100	3.50	43680	1000.00000	886.281547	89
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	29010	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	31700	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	41520	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	29280	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	24000	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	40770	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	35220	3.49	40250	2500.00000	2227.155956	89

Chromatograms:



Analyte: PFD0A_1 (613.0 / 569.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

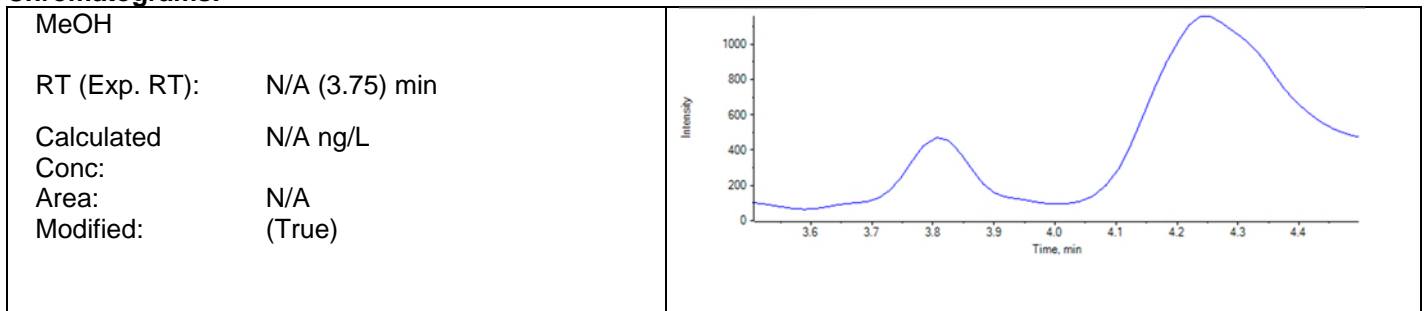
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11940	3.81	43180	25.00000	20.855428	83
JU05	Standard	3/28/2018 7:57:43 PM	15860	3.81	35040	50.00000	43.460589	87
JU06	Standard	3/28/2018 8:08:31 PM	31620	3.81	36240	100.00000	97.328906	97
JU07	Standard	3/28/2018 8:19:19 PM	84890	3.81	40540	250.00000	254.126128	102
JU08	Standard	3/28/2018 8:30:06 PM	141900	3.81	32440	500.00000	546.898506	109
JU09	Standard	3/28/2018 8:40:53 PM	307800	3.81	37250	1000.00000	1045.976761	105
JU10	Standard	3/28/2018 8:51:40 PM	691400	3.81	31930	2500.00000	2764.238202	111
JU11	Standard	3/28/2018 9:02:26 PM	3047000	3.80	33740	10000.00000	11574.054096	116
JU12	Standard	3/28/2018 9:13:13 PM	7732000	3.80	54840	20000.00000	18078.061385	90
JP83 IB	Unknown	3/28/2018 9:23:58 PM	38830	3.80	40380	N/A	108.789748	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	270800	3.80	33620	1000.00000	1019.007224	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	41120	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	39870	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	876500	3.79	40420	N/A	2768.545227	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	10620	3.79	21520	N/A	48.727607	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1823000	3.78	24330	N/A	9601.271248	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	2084000	3.79	28960	N/A	9218.516886	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	17920	3.79	24230	N/A	80.272065	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	8380	3.79	24120	N/A	29.962213	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33720	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	383100	3.79	43890	1000.00000	1105.731264	111
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	21510	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	26430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	43010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	24340	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	19400	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32290	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	899700	3.78	40960	2500.00000	2804.292375	112

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: PFD0A_2 (613.0 / 319.0)

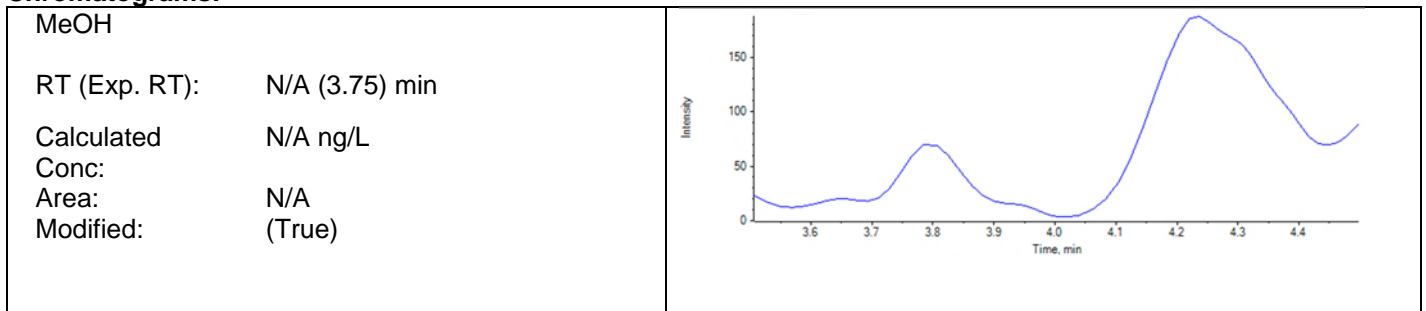
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1834	3.81	43180	25.00000	32.406706	130
JU05	Standard	3/28/2018 7:57:43 PM	2224	3.81	35040	50.00000	46.829534	94
JU06	Standard	3/28/2018 8:08:31 PM	4958	3.81	36240	100.00000	97.165942	97
JU07	Standard	3/28/2018 8:19:19 PM	13770	3.81	40540	250.00000	236.471294	95
JU08	Standard	3/28/2018 8:30:06 PM	21720	3.80	32440	500.00000	462.765301	93
JU09	Standard	3/28/2018 8:40:53 PM	48290	3.81	37250	1000.00000	893.050019	89
JU10	Standard	3/28/2018 8:51:40 PM	118500	3.80	31930	2500.00000	2551.282434	102
JU11	Standard	3/28/2018 9:02:26 PM	496600	3.80	33740	10000.00000	10105.028769	101
JU12	Standard	3/28/2018 9:13:13 PM	1208000	3.80	54840	20000.00000	15117.879245	76
JP83 IB	Unknown	3/28/2018 9:23:58 PM	7013	3.80	40380	N/A	122.470136	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	44340	3.80	33620	1000.00000	908.538605	91
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	41120	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	39870	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	139700	3.80	40420	N/A	2375.925579	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1558	3.79	21520	N/A	52.959991	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	282800	3.78	24330	N/A	7982.727906	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	336800	3.79	28960	N/A	7984.762622	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	2979	3.78	24230	N/A	87.642239	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	24120	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	33720	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	60750	3.79	43890	1000.00000	953.387871	95
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	21510	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	26430	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	43010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	24340	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	19400	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	32290	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	132800	3.78	40960	2500.00000	2228.780598	89

Chromatograms:



Analyte: PFTTrDA_1 (663.0 / 619.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

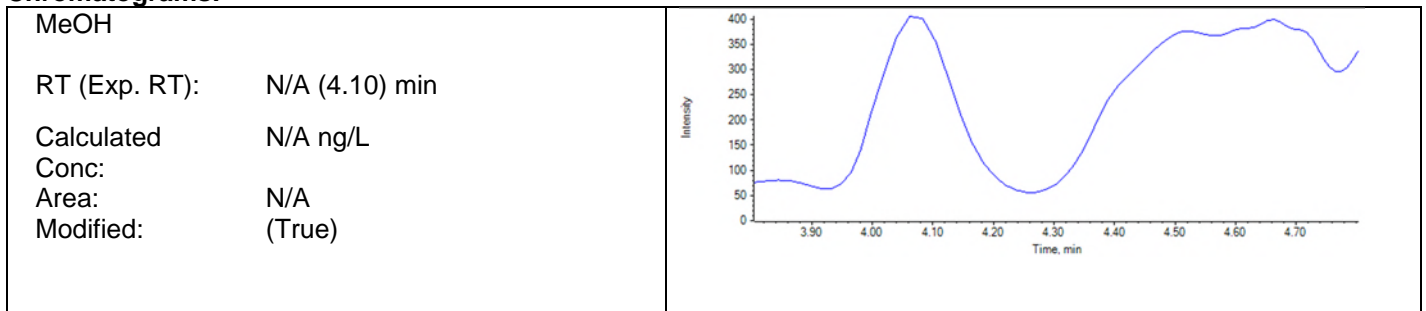
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	8538	4.07	36180	25.00000	3.628306	45
JU05	Standard	3/28/2018 7:57:43 PM	13590	4.07	29590	50.00000	35.913950	72
JU06	Standard	3/28/2018 8:08:31 PM	26150	4.07	30760	100.00000	92.386404	92
JU07	Standard	3/28/2018 8:19:19 PM	69380	4.07	33650	250.00000	267.580630	107
JU08	Standard	3/28/2018 8:30:06 PM	118600	4.07	30280	500.00000	535.938234	107
JU09	Standard	3/28/2018 8:40:53 PM	251800	4.07	32890	1000.00000	1076.274180	108
JU10	Standard	3/28/2018 8:51:40 PM	579600	4.07	30100	2500.00000	2753.169286	110
JU11	Standard	3/28/2018 9:02:26 PM	2529000	4.06	32780	10000.00000	11123.584284	111
JU12	Standard	3/28/2018 9:13:13 PM	6552000	4.06	51080	20000.00000	18515.153032	93
JP83 IB	Unknown	3/28/2018 9:23:58 PM	31670	4.06	33830	N/A	104.823766	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	231900	4.06	28620	1000.00000	1140.943637	114
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	641400	4.05	26510	N/A	3467.439376	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	9353	4.05	15240	N/A	58.243760	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1381000	4.04	15740	N/A	12653.812215	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1646000	4.05	19790	N/A	11988.082436	N/A

Not being used in this calibration.
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	11480	4.05	22930	N/A	41.906774	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	5652	4.05	16090	N/A	20.291828	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	2366	4.04	18340	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	322900	4.04	39060	1000.00000	1164.494367	116
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	1689	4.05	16530	N/A	< 0	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	1934	4.05	18970	N/A	< 0	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	765400	4.04	38240	2500.00000	2863.245587	115

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: PFTTrDA_2 (663.0 / 169.0)

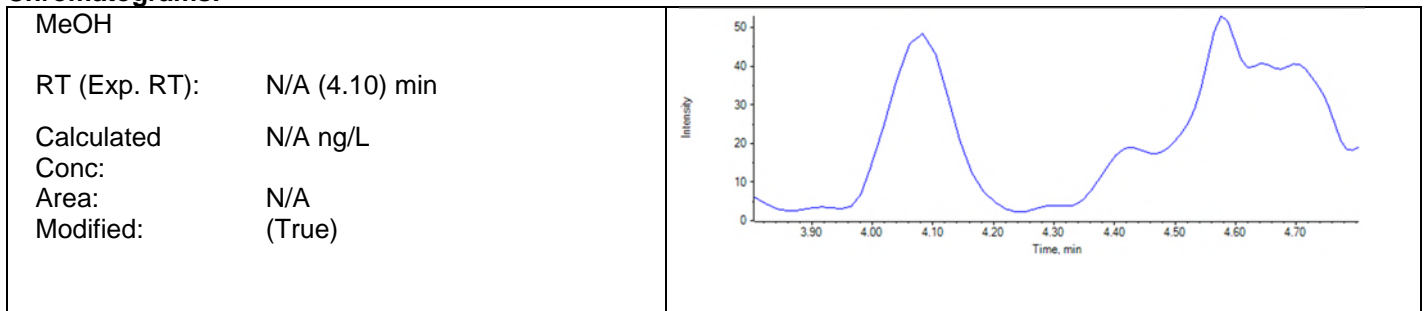
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	658	4.08	36180	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	960	4.07	29590	50.00000	11.465455	23
JU06	Standard	3/28/2018 8:08:31 PM	1978	4.06	30760	100.00000	76.773814	77
JU07	Standard	3/28/2018 8:19:19 PM	4678	4.07	33650	250.00000	229.999584	92
JU08	Standard	3/28/2018 8:30:06 PM	8497	4.06	30280	500.00000	520.388921	104
JU09	Standard	3/28/2018 8:40:53 PM	18650	4.07	32890	1000.00000	1107.771007	111
JU10	Standard	3/28/2018 8:51:40 PM	42170	4.06	30100	2500.00000	2817.086727	113
JU11	Standard	3/28/2018 9:02:26 PM	179000	4.06	32780	10000.00000	11139.619812	111
JU12	Standard	3/28/2018 9:13:13 PM	461200	4.06	51080	20000.00000	18458.360135	92
JP83 IB	Unknown	3/28/2018 9:23:58 PM	2520	4.06	33830	N/A	97.662844	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	16290	4.05	28620	1000.00000	1112.412360	111
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	46760	4.05	26510	N/A	3561.701771	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	705	4.03	15240	N/A	39.795788	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	99370	4.04	15740	N/A	12892.328632	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	120800	4.05	19790	N/A	12460.109656	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	990	4.03	22930	N/A	33.462107	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	815	4.04	16090	N/A	48.738440	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	18340	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	22990	4.04	39060	1000.00000	1151.971385	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	16530	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	18970	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	51910	4.04	38240	2500.00000	2728.654270	109

Chromatograms:



Analyte: PFTeDA_1 (713.0 / 669.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

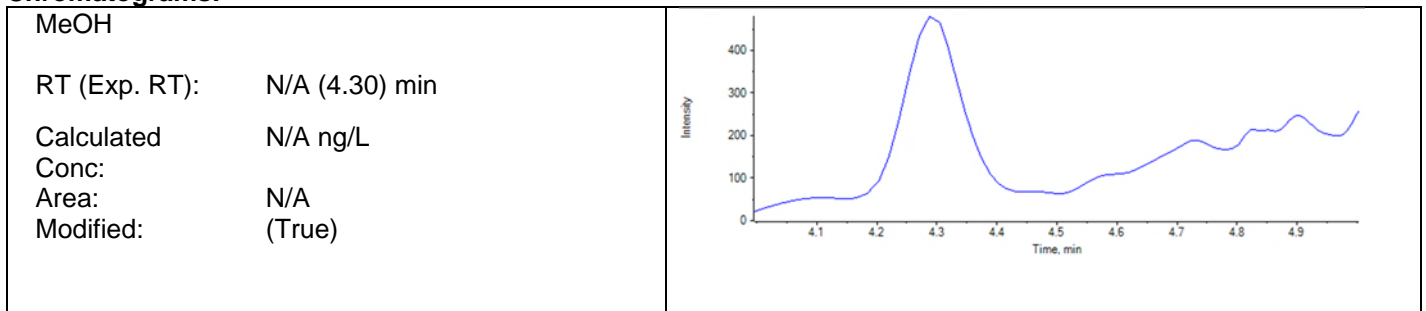
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	11190	4.29	36180	25.00000	<0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	14770	4.29	29590	50.00000	8.698838	17
JU06	Standard	3/28/2018 8:08:31 PM	30670	4.29	30760	100.00000	71.817555	72
JU07	Standard	3/28/2018 8:19:19 PM	79540	4.29	33650	250.00000	245.085808	98
JU08	Standard	3/28/2018 8:30:06 PM	136700	4.29	30280	500.00000	517.938481	104
JU09	Standard	3/28/2018 8:40:53 PM	301000	4.29	32890	1000.00000	1105.559256	111
JU10	Standard	3/28/2018 8:51:40 PM	687300	4.29	30100	2500.00000	2839.848279	114
JU11	Standard	3/28/2018 9:02:26 PM	2836000	4.28	32780	10000.00000	10912.363228	109
JU12	Standard	3/28/2018 9:13:13 PM	7539000	4.28	51080	20000.00000	18657.387394	93
JP83 IB	Unknown	3/28/2018 9:23:58 PM	39300	4.28	33830	N/A	92.670988	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	263900	4.28	28620	1000.00000	1114.600684	111
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	659700	4.27	26510	N/A	3100.092258	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	7155	4.27	15240	N/A	4.948959	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1476000	4.26	15740	N/A	11832.216726	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1810000	4.27	19790	N/A	11538.789310	N/A

Not being used in this calibration.
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	9897	4.27	22930	N/A	0.135175	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	4868	4.27	16090	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	1478	4.27	18340	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	371300	4.27	39060	1000.00000	1150.324626	115
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	970	4.27	16530	N/A	< 0	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	1394	4.26	18970	N/A	< 0	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	860800	4.26	38240	2500.00000	2799.099453	112

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: PFTeDA_2 (713.0 / 169.0)

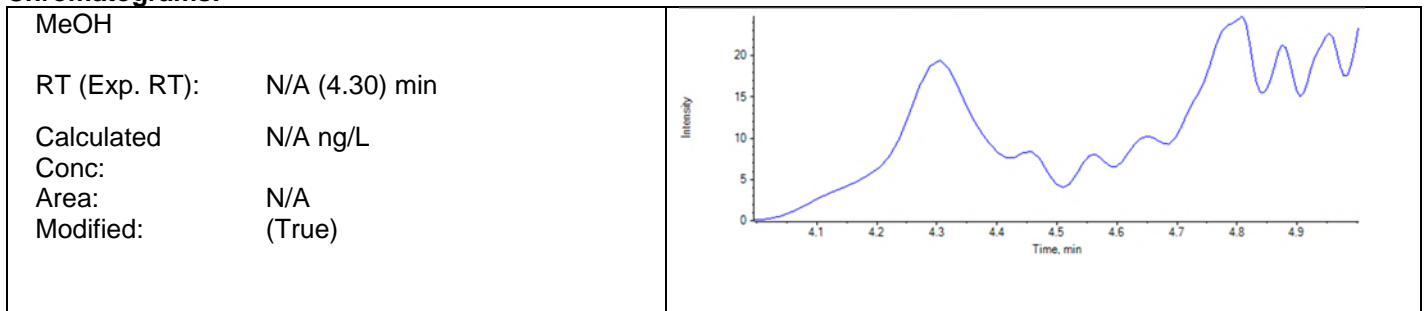
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	372	4.29	36180	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	793	4.30	29590	50.00000	5.879418	12
JU06	Standard	3/28/2018 8:08:31 PM	1681	4.29	30760	100.00000	72.757944	73
JU07	Standard	3/28/2018 8:19:19 PM	4309	4.29	33650	250.00000	249.187337	100
JU08	Standard	3/28/2018 8:30:06 PM	7263	4.28	30280	500.00000	517.884349	104
JU09	Standard	3/28/2018 8:40:53 PM	15740	4.29	32890	1000.00000	1091.324172	109
JU10	Standard	3/28/2018 8:51:40 PM	35900	4.29	30100	2500.00000	2807.397684	112
JU11	Standard	3/28/2018 9:02:26 PM	149500	4.28	32780	10000.00000	10900.936811	109
JU12	Standard	3/28/2018 9:13:13 PM	399000	4.28	51080	20000.00000	18710.511703	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	1947	4.28	33830	N/A	79.731860	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	13180	4.28	28620	1000.00000	1047.790536	105
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	36250	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	22890	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	33880	4.27	26510	N/A	3012.745963	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	550	4.26	15240	N/A	28.157209	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	84480	4.26	15740	N/A	12839.938016	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	101100	4.27	19790	N/A	12220.146739	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	497	4.28	22930	N/A	< 0	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	165	4.28	16090	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	18340	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	19440	4.26	39060	1000.00000	1137.469703	114
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	16530	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	18970	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	36010	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	14060	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	15180	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	26240	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	45530	4.26	38240	2500.00000	2802.326311	112

Chromatograms:



Analyte: NMeFOSAA_1 (570.0 / 419.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	1612	3.36	6598	25.00000	< 0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	2273	3.36	5054	50.00000	1.957425	4
JU06	Standard	3/28/2018 8:08:31 PM	5226	3.36	5105	100.00000	74.272755	74
JU07	Standard	3/28/2018 8:19:19 PM	13740	3.35	5277	250.00000	273.477984	109
JU08	Standard	3/28/2018 8:30:06 PM	23120	3.36	6102	500.00000	422.761715	85
JU09	Standard	3/28/2018 8:40:53 PM	49830	3.35	5086	1000.00000	1180.017983	118
JU10	Standard	3/28/2018 8:51:40 PM	107300	3.35	4437	2500.00000	2992.907145	120
JU11	Standard	3/28/2018 9:02:26 PM	451800	3.35	6017	10000.00000	9406.562418	94
JU12	Standard	3/28/2018 9:13:13 PM	1174000	3.35	9965	20000.00000	14786.550156	74
JP83 IB	Unknown	3/28/2018 9:23:58 PM	8714	3.35	6889	N/A	104.691339	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	45240	3.35	5405	1000.00000	999.988766	100
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	1633	3.34	6631	N/A	< 0	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	303	3.35	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	5936	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	145000	3.35	6875	N/A	2603.085222	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	1558	3.34	4513	N/A	< 0	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	262600	3.33	3840	N/A	8563.447764	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	279500	3.34	4110	N/A	8514.515982	N/A

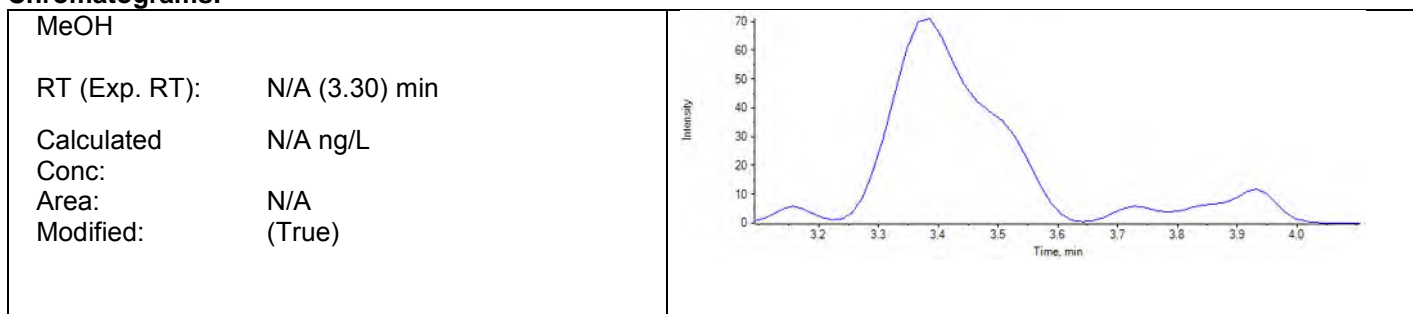
Not being used in this calibration.
DMS 4/4/2018

Not being used in this calibration.
DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	3481	3.34	4951	N/A	33.876843	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	1470	3.35	4500	N/A	< 0	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	801	3.35	6603	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	56400	3.34	5617	1000.00000	1210.433873	121
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3754	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	4325	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	6005	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	4334	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	2847	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	5552	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	138900	3.33	5733	2500.00000	2997.125293	120

Dilution not needed. DMS 4/4/2018

Chromatograms:



Analyte: NMeFOSAA_2 (570.0 / 512.0)

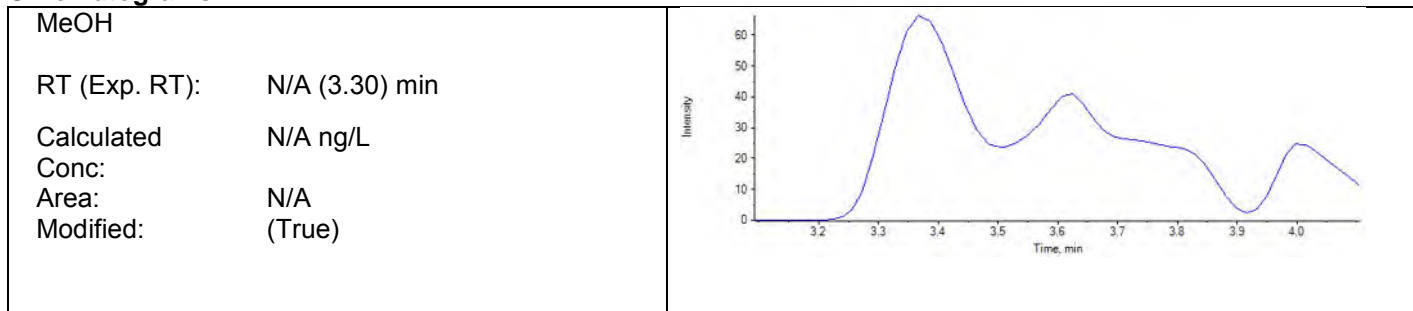
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	N/A	N/A	6598	25.00000	N/A	N/A
JU05	Standard	3/28/2018 7:57:43 PM	1978	3.35	5054	50.00000	38.736195	77
JU06	Standard	3/28/2018 8:08:31 PM	2980	3.36	5105	100.00000	80.173295	80
JU07	Standard	3/28/2018 8:19:19 PM	8222	3.36	5277	250.00000	290.165590	116
JU08	Standard	3/28/2018 8:30:06 PM	13960	3.35	6102	500.00000	447.227836	89
JU09	Standard	3/28/2018 8:40:53 PM	29590	3.36	5086	1000.00000	1208.293784	121
JU10	Standard	3/28/2018 8:51:40 PM	64540	3.35	4437	2500.00000	3088.636692	124
JU11	Standard	3/28/2018 9:02:26 PM	259400	3.35	6017	10000.00000	9246.766608	92
JU12	Standard	3/28/2018 9:13:13 PM	650800	3.35	9965	20000.00000	14028.337361	70
JP83 IB	Unknown	3/28/2018 9:23:58 PM	5774	3.35	6889	N/A	135.036290	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	26740	3.35	5405	1000.00000	1020.365824	102
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6631	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	5936	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	84540	3.35	6875	N/A	2604.431786	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	4513	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	150900	3.33	3840	N/A	8421.243556	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	171500	3.34	4110	N/A	8947.829961	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	4951	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	4500	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	6603	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	33620	3.34	5617	1000.00000	1244.154169	124
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3754	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	4325	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	6005	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	4334	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	2847	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	5552	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	73770	3.33	5733	2500.00000	2727.242561	109

Chromatograms:



Analyte: NEtFOSAA_1 (584.0 / 419.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	2033	3.52	7742	25.00000	19.094443	76
JU05	Standard	3/28/2018 7:57:43 PM	3077	3.53	4915	50.00000	64.289932	129
JU06	Standard	3/28/2018 8:08:31 PM	5092	3.52	6548	100.00000	83.146585	83
JU07	Standard	3/28/2018 8:19:19 PM	13250	3.52	5672	250.00000	276.946160	111
JU08	Standard	3/28/2018 8:30:06 PM	20790	3.52	4760	500.00000	529.488560	106
JU09	Standard	3/28/2018 8:40:53 PM	43470	3.52	5060	1000.00000	1054.448961	105
JU10	Standard	3/28/2018 8:51:40 PM	105300	3.52	5789	2500.00000	2247.617650	90
JU11	Standard	3/28/2018 9:02:26 PM	433000	3.52	5472	10000.00000	9824.032079	98
JU12	Standard	3/28/2018 9:13:13 PM	1087000	3.51	6645	20000.00000	20325.935630	102
JP83 IB	Unknown	3/28/2018 9:23:58 PM	9263	3.52	6205	N/A	172.070871	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	44000	3.51	5121	1000.00000	1054.719718	105
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	5908	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7212	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	148200	3.51	7009	N/A	2616.238604	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	2154	3.50	5132	N/A	38.641530	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	289300	3.50	3147	N/A	11417.274254	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	321700	3.51	3603	N/A	11088.684894	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	3531	3.50	4644	N/A	81.002110	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	2023	3.50	5771	N/A	30.049990	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	760	3.50	7053	N/A	< 0	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	55830	3.50	6352	1000.00000	1079.251456	108
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	601	3.51	3360	N/A	8.684178	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	964	3.49	3574	N/A	19.981571	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	4929	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	755	3.51	3181	N/A	15.977527	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	437	3.49	3139	N/A	3.770183	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	6718	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	125700	3.50	6344	2500.00000	2449.373090	98

Dilution not needed. DMS 4/4/2018

Chromatograms:

MeOH RT (Exp. RT): N/A (3.40) min Calculated Conc: N/A ng/L Area: N/A Modified: (True)	
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Analyte: NEtFOSAA_2 (584.0 / 483.0)

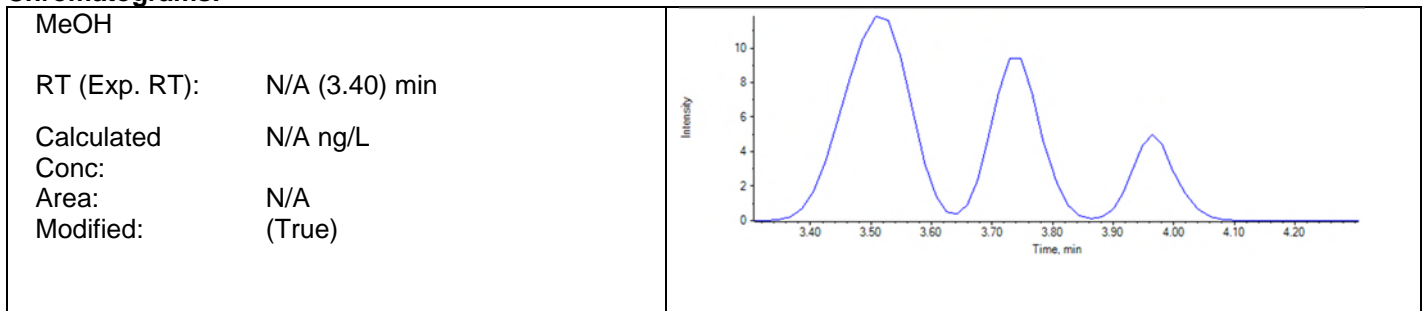
Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	273	3.48	7742	25.00000	29.600031	118
JU05	Standard	3/28/2018 7:57:43 PM	236	3.54	4915	50.00000	56.985468	114
JU06	Standard	3/28/2018 8:08:31 PM	423	3.52	6548	100.00000	92.381424	92
JU07	Standard	3/28/2018 8:19:19 PM	735	3.52	5672	250.00000	230.691938	92
JU08	Standard	3/28/2018 8:30:06 PM	1130	3.53	4760	500.00000	460.829454	92
JU09	Standard	3/28/2018 8:40:53 PM	2375	3.53	5060	1000.00000	955.498792	96
JU10	Standard	3/28/2018 8:51:40 PM	6403	3.52	5789	2500.00000	2313.434396	93
JU11	Standard	3/28/2018 9:02:26 PM	26440	3.52	5472	10000.00000	10257.940241	103
JU12	Standard	3/28/2018 9:13:13 PM	62540	3.51	6645	20000.00000	20027.638257	100
JP83 IB	Unknown	3/28/2018 9:23:58 PM	589	3.51	6205	N/A	156.879177	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	2692	3.51	5121	1000.00000	1075.771652	108
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	5908	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	7212	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	6858	3.51	7009	N/A	2041.336022	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	5132	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	15320	3.50	3147	N/A	10335.125564	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	17480	3.51	3603	N/A	10303.628373	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	4644	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	5771	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	7053	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	3279	3.50	6352	1000.00000	1055.343777	106
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	N/A	N/A	3360	N/A	N/A	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	3574	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	4929	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	3181	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	3139	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	6718	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	6596	3.50	6344	2500.00000	2172.217488	87

Chromatograms:



Analyte: PFBA (213.0 / 169.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

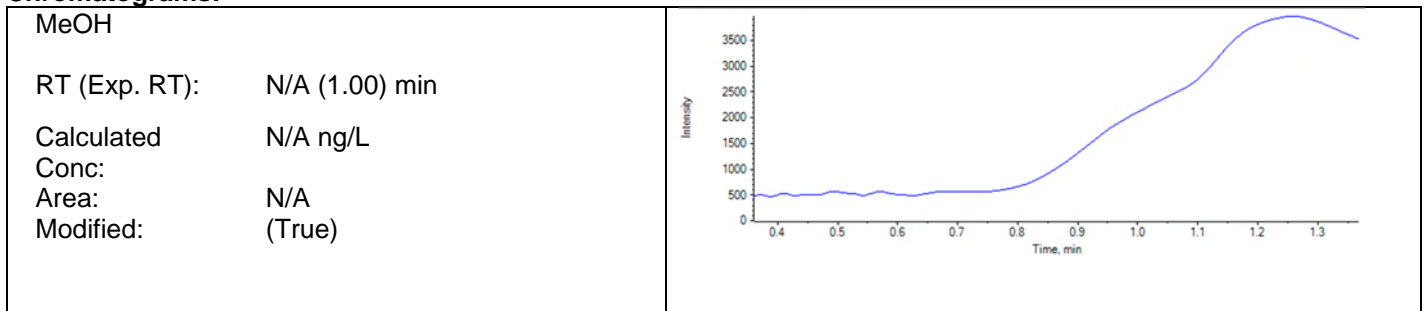
Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	16320	1.04	28800	25.00000	<0	N/A
JU05	Standard	3/28/2018 7:57:43 PM	17290	1.04	23950	50.00000	<0	N/A
JU06	Standard	3/28/2018 8:08:31 PM	54060	1.06	26920	100.00000	105.189946	105
JU07	Standard	3/28/2018 8:19:19 PM	97440	1.05	28720	250.00000	232.211131	93
JU08	Standard	3/28/2018 8:30:06 PM	134000	1.06	24190	500.00000	429.521654	86
JU09	Standard	3/28/2018 8:40:53 PM	345200	1.05	24740	1000.00000	1201.587327	120
JU10	Standard	3/28/2018 8:51:40 PM	597500	1.05	22930	2500.00000	2312.794736	93
JU11	Standard	3/28/2018 9:02:26 PM	2638000	1.05	22670	10000.00000	10601.454656	106
JU12	Standard	3/28/2018 9:13:13 PM	6531000	1.05	30670	20000.00000	19467.240551	97
JP83 IB	Unknown	3/28/2018 9:23:58 PM	31160	1.07	28780	N/A	20.217585	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	274200	1.05	24790	1000.00000	936.253893	94
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	28370	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	45440	1.04	28010	N/A	69.757917	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	988000	1.04	27970	N/A	3163.226926	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	N/A	N/A	8265	N/A	N/A	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1089000	1.18	9881	N/A	10040.797072	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1318000	1.19	11230	N/A	10685.121514	N/A

Not being used in this calibration.
 DMS 4/4/2018

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
J5388-FS(3)	Unknown	3/28/2018 11:44:05 PM	N/A	N/A	17200	N/A	N/A	N/A
J5389-FS(3)	Unknown	3/28/2018 11:54:52 PM	N/A	N/A	9268	N/A	N/A	N/A
J5390-FS(3)	Unknown	3/29/2018 12:05:39 AM	N/A	N/A	11320	N/A	N/A	N/A
JU09 CCV	Quality Control	3/29/2018 12:16:25 AM	464400	1.04	32620	1000.00000	1227.442979	123
MeOH	Unknown	3/29/2018 12:27:10 AM	N/A	N/A	N/A	N/A	N/A	N/A
J5392-FS(3)	Unknown	3/29/2018 12:37:58 AM	137900	1.02	15710	N/A	726.419216	N/A
J5394-FS(4)	Unknown	3/29/2018 12:48:42 AM	N/A	N/A	13160	N/A	N/A	N/A
J5394-FS-D(5)	Unknown	3/29/2018 12:59:28 AM	N/A	N/A	28450	N/A	N/A	N/A
J5395-FS(3)	Unknown	3/29/2018 1:10:15 AM	N/A	N/A	8947	N/A	N/A	N/A
J5396-FS(3)	Unknown	3/29/2018 1:21:02 AM	N/A	N/A	13760	N/A	N/A	N/A
J5397-FS(3)	Unknown	3/29/2018 1:31:48 AM	N/A	N/A	10440	N/A	N/A	N/A
JU10 CCV	Quality Control	3/29/2018 1:42:33 AM	773700	1.04	30610	2500.00000	2241.212351	90

Dilution not needed. DMS 4/4/2018

Chromatograms:

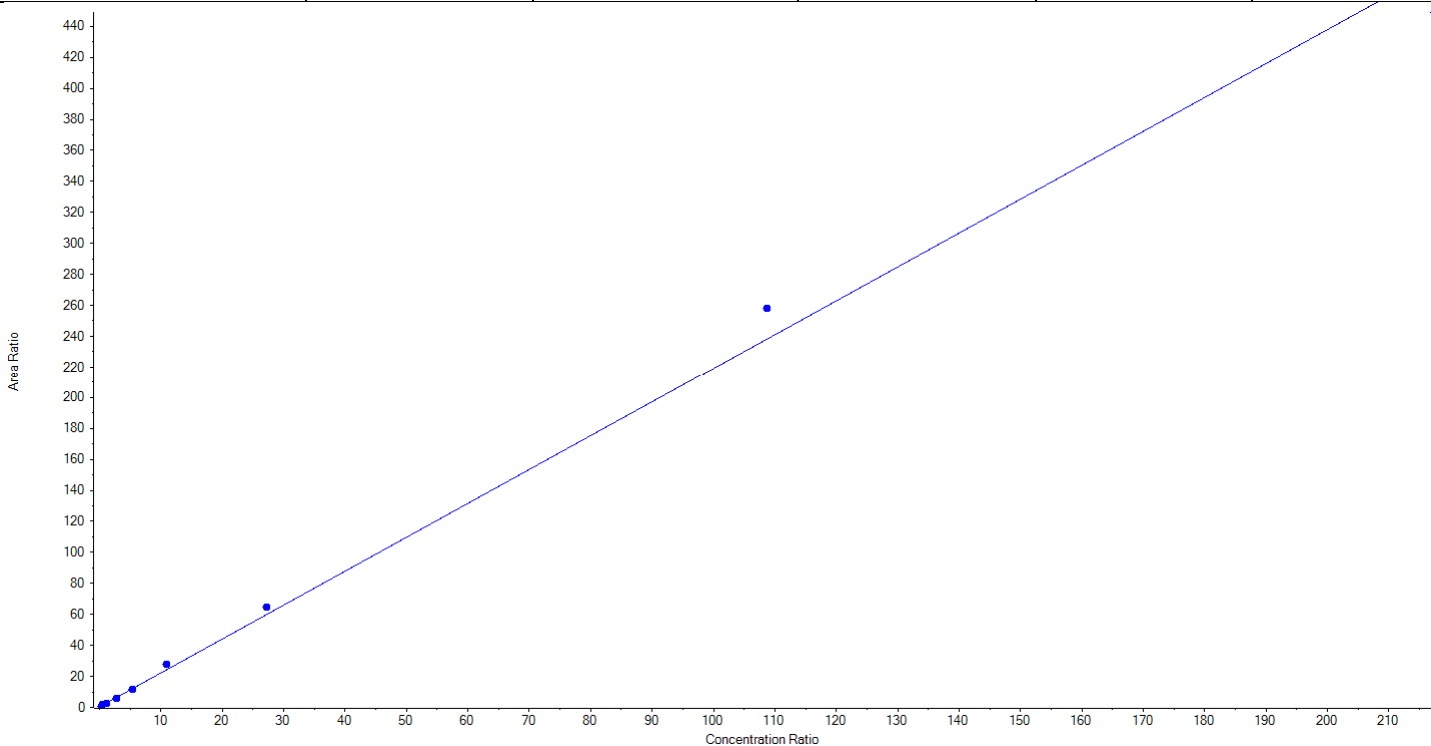


Analyte Name: PFBS_1
Internal Standard: 13C3-PFBS

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 2.18745x + 0.38225$ (r = 0.99726) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	23.133236	91.6	N/A	N/A
50.50000	1 of 1	55.886592	110.7	N/A	N/A
101.00000	1 of 1	87.163084	86.3	N/A	N/A
252.50000	1 of 1	229.381129	90.8	N/A	N/A
505.00000	1 of 1	474.110294	93.9	N/A	N/A
1010.00000	1 of 1	1166.027800	115.5	N/A	N/A
2525.00000	1 of 1	2741.992350	108.6	N/A	N/A
10100.00000	1 of 1	10943.205444	108.4	N/A	N/A
20200.00000	1 of 1	19048.350072	94.3	N/A	N/A

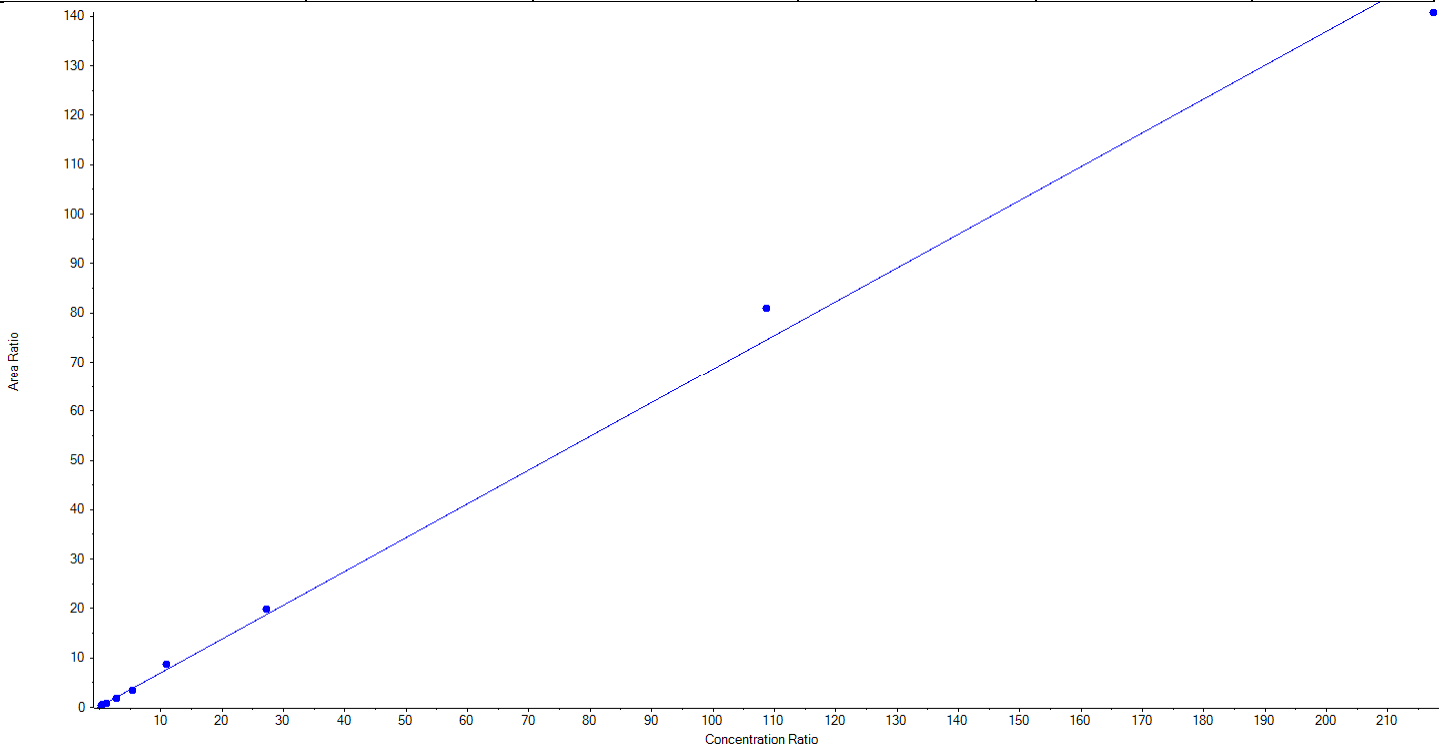


Analyte Name: PFBS_2
Internal Standard: 13C3-PFBS

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.68407x + 0.15672$ ($r = 0.99735$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.827342	90.4	N/A	N/A
50.50000	1 of 1	54.920579	108.8	N/A	N/A
101.00000	1 of 1	95.348578	94.4	N/A	N/A
252.50000	1 of 1	232.612471	92.1	N/A	N/A
505.00000	1 of 1	448.640793	88.8	N/A	N/A
1010.00000	1 of 1	1174.990896	116.3	N/A	N/A
2525.00000	1 of 1	2677.209151	106.0	N/A	N/A
10100.00000	1 of 1	10965.358307	108.6	N/A	N/A
20200.00000	1 of 1	19097.341882	94.5	N/A	N/A

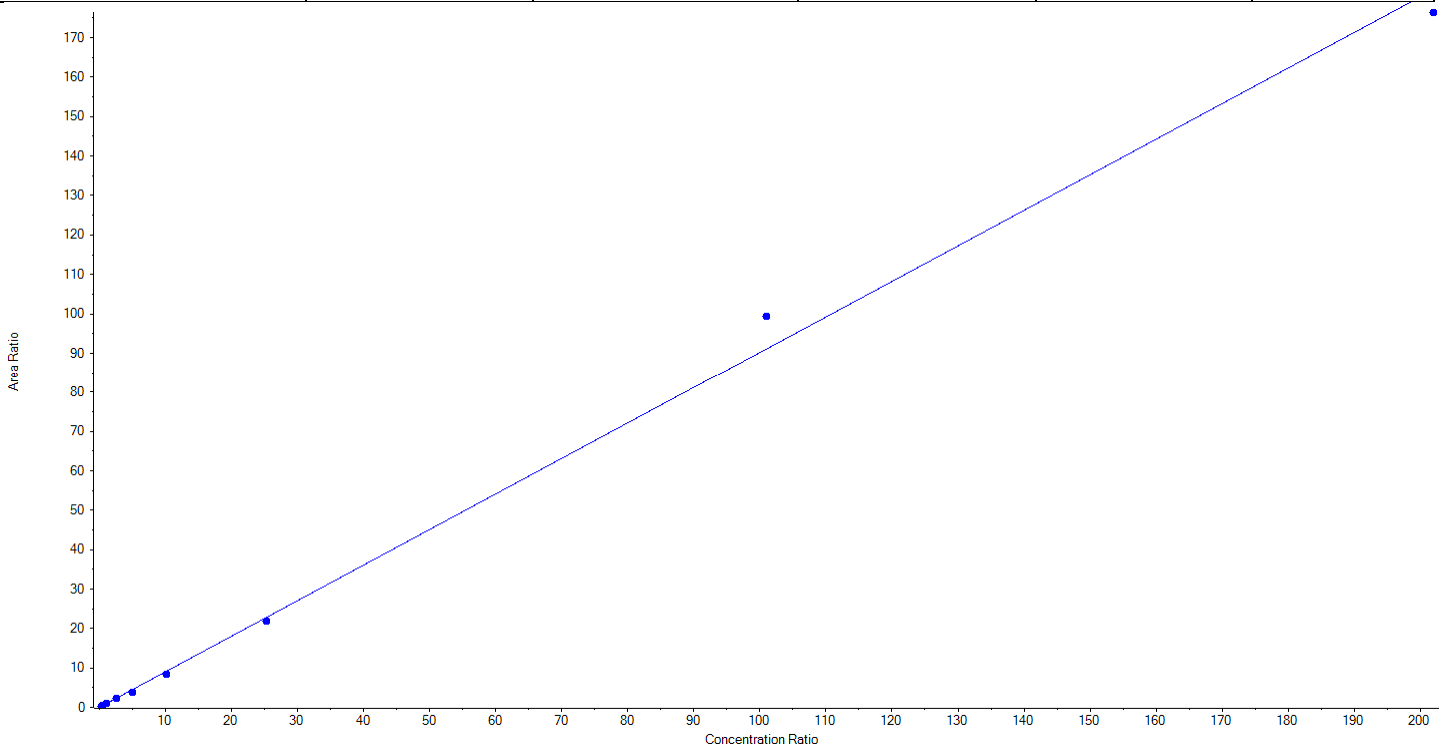


Analyte Name: PFHxA_1
Internal Standard: 13C5-PFHxA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.90163x + 0.02064$ ($r = 0.99805$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.323363	116.1	N/A	N/A
50.50000	1 of 1	54.845712	108.6	N/A	N/A
101.00000	1 of 1	103.073511	102.1	N/A	N/A
252.50000	1 of 1	247.279848	97.9	N/A	N/A
505.00000	1 of 1	416.678143	82.5	N/A	N/A
1010.00000	1 of 1	916.426719	90.7	N/A	N/A
2525.00000	1 of 1	2427.864390	96.2	N/A	N/A
10100.00000	1 of 1	11013.601074	109.1	N/A	N/A
20200.00000	1 of 1	19560.157239	96.8	N/A	N/A

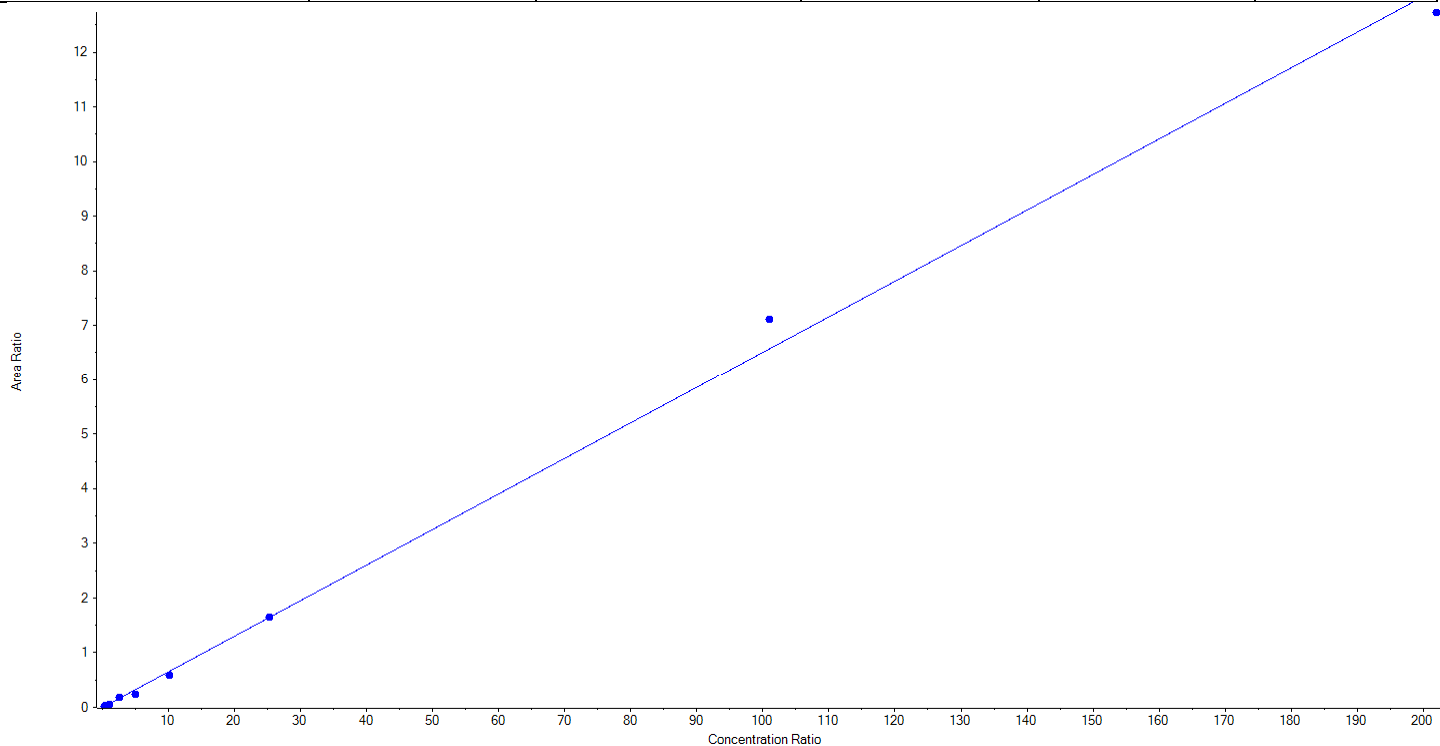


Analyte Name: PFHxA_2
Internal Standard: 13C5-PFHxA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.06508 x + 1.01684e-4$ ($r = 0.99797$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	25.788130	102.1	N/A	N/A
50.50000	1 of 1	61.613692	122.0	N/A	N/A
101.00000	1 of 1	98.228932	97.3	N/A	N/A
252.50000	1 of 1	273.750615	108.4	N/A	N/A
505.00000	1 of 1	379.136656	75.1	N/A	N/A
1010.00000	1 of 1	907.452133	89.9	N/A	N/A
2525.00000	1 of 1	2528.019149	100.1	N/A	N/A
10100.00000	1 of 1	10944.260977	108.4	N/A	N/A
20200.00000	1 of 1	19550.999717	96.8	N/A	N/A

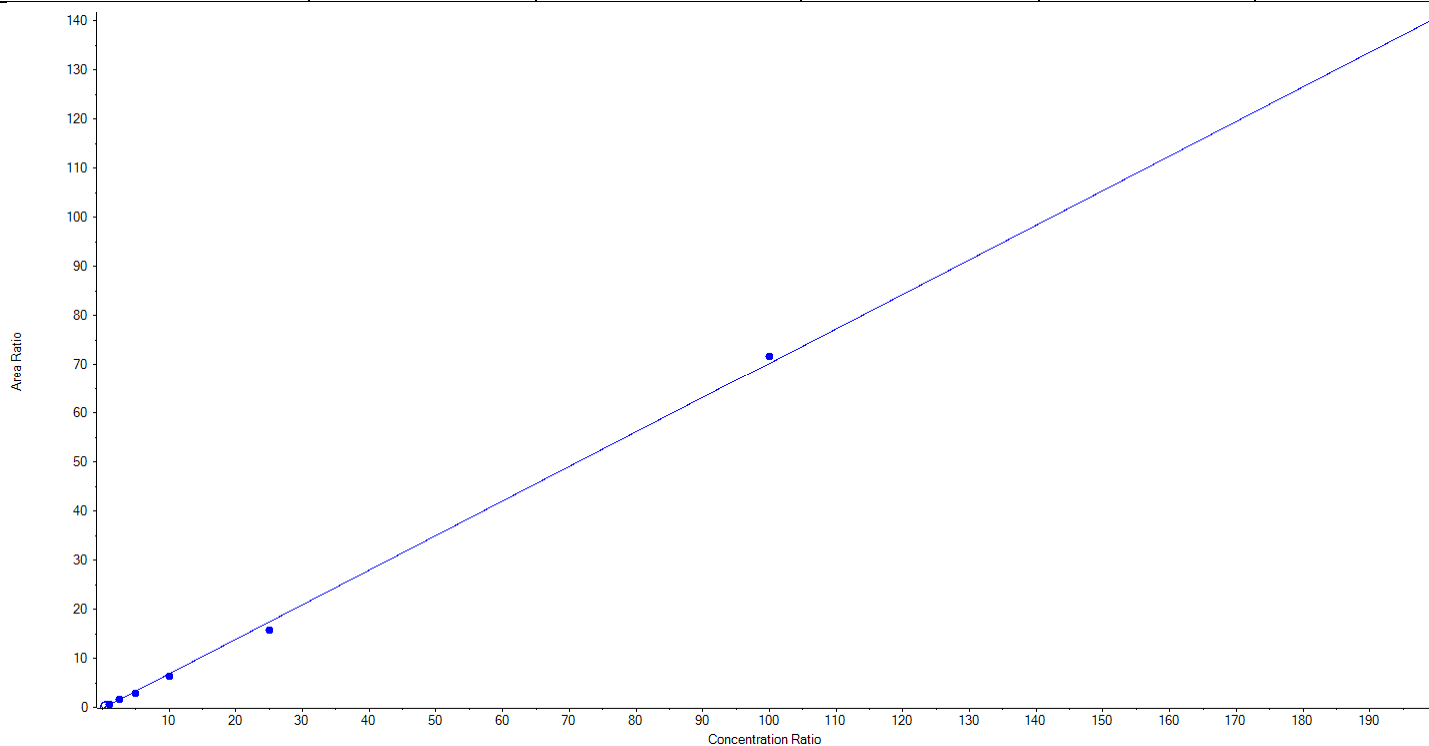


Analyte Name: PFHpA_1
Internal Standard: 13C8-PFOA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.70421x + -0.21391$ ($r = 0.99921$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	126.677290	126.7	N/A	N/A
250.00000	1 of 1	251.606443	100.6	N/A	N/A
500.00000	1 of 1	435.826509	87.2	N/A	N/A
1000.00000	1 of 1	923.643237	92.4	N/A	N/A
2500.00000	1 of 1	2258.900966	90.4	N/A	N/A
10000.00000	1 of 1	10205.548132	102.1	N/A	N/A
20000.00000	1 of 1	20147.797423	100.7	N/A	N/A

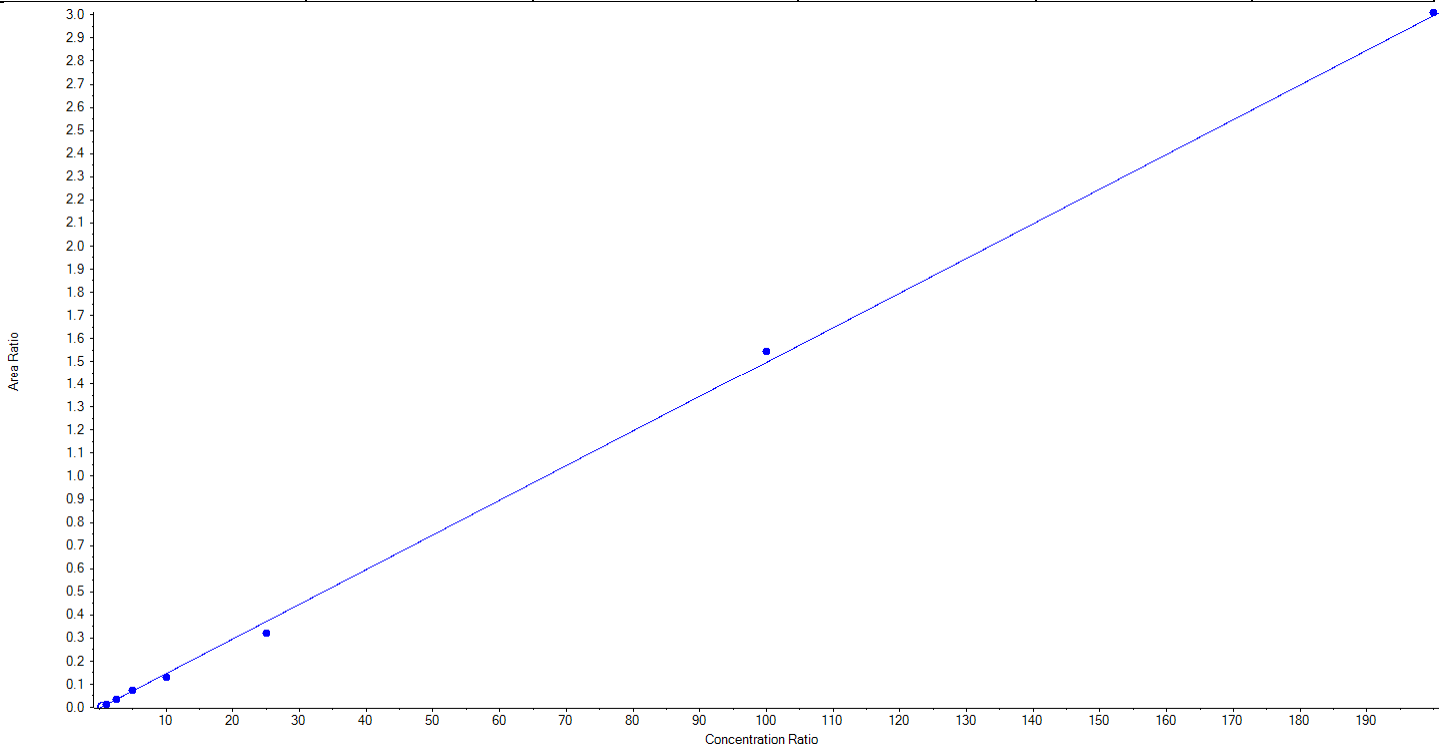


Analyte Name: PFHpA_2
Internal Standard: 13C8-PFOA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.01500 x + -0.00394$ ($r = 0.99880$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	109.865247	109.9	N/A	N/A
250.00000	1 of 1	268.022015	107.2	N/A	N/A
500.00000	1 of 1	524.009955	104.8	N/A	N/A
1000.00000	1 of 1	883.574575	88.4	N/A	N/A
2500.00000	1 of 1	2152.378430	86.1	N/A	N/A
10000.00000	1 of 1	10322.122471	103.2	N/A	N/A
20000.00000	1 of 1	20090.027307	100.5	N/A	N/A

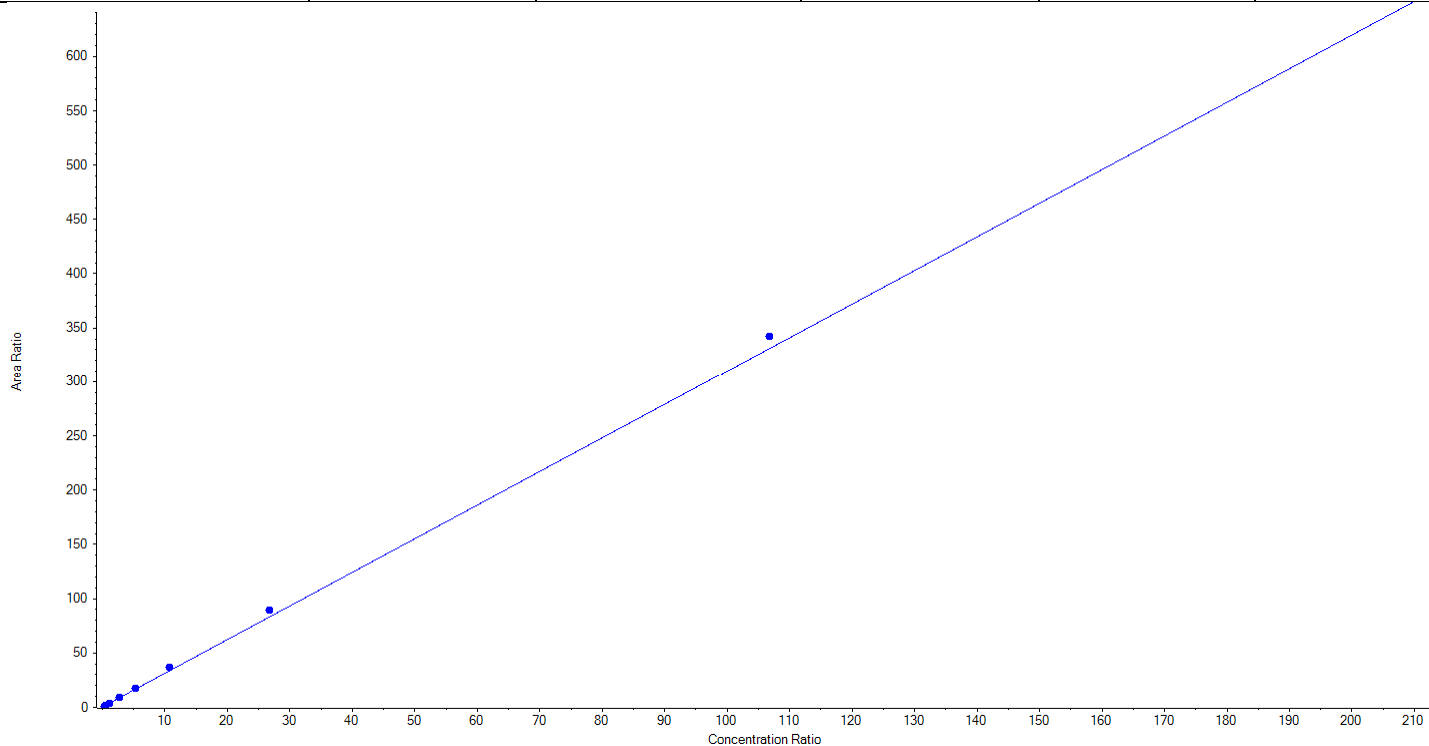


Analyte Name: PFHxS_1
Internal Standard: 13C3-PFHxS

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 3.09576 x + 0.48680$ ($r = 0.99908$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.937318	90.8	N/A	N/A
50.50000	1 of 1	49.075900	97.2	N/A	N/A
101.00000	1 of 1	89.812255	88.9	N/A	N/A
252.50000	1 of 1	255.369183	101.1	N/A	N/A
505.00000	1 of 1	517.625925	102.5	N/A	N/A
1010.00000	1 of 1	1126.539821	111.5	N/A	N/A
2525.00000	1 of 1	2721.490627	107.8	N/A	N/A
10100.00000	1 of 1	10433.642448	103.3	N/A	N/A
20200.00000	1 of 1	19552.756523	96.8	N/A	N/A

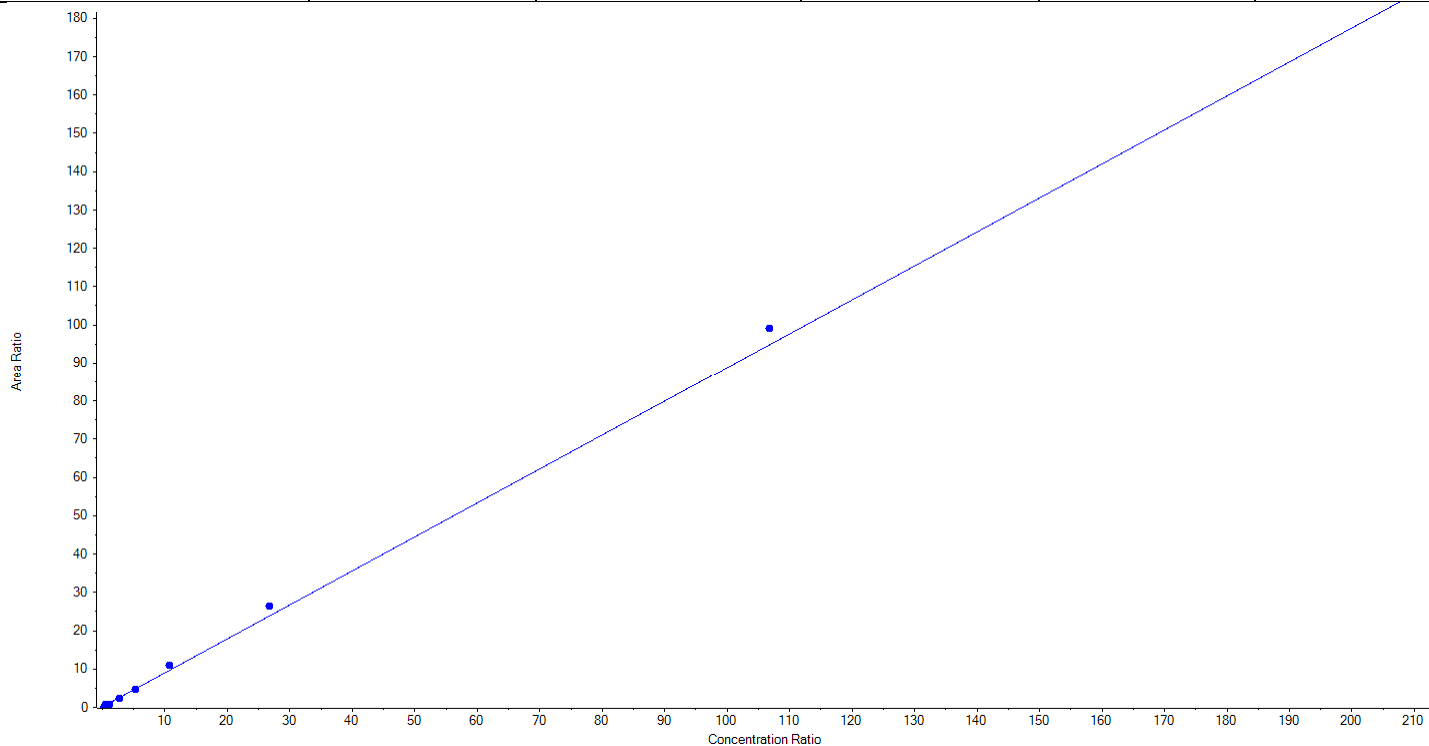


Analyte Name: PFHxS_2
Internal Standard: 13C3-PFHxS

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.88658x + 0.15355$ ($r = 0.99823$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	21.106561	83.6	N/A	N/A
50.50000	1 of 1	60.509038	119.8	N/A	N/A
101.00000	1 of 1	79.595844	78.8	N/A	N/A
252.50000	1 of 1	238.852883	94.6	N/A	N/A
505.00000	1 of 1	486.949855	96.4	N/A	N/A
1010.00000	1 of 1	1167.168355	115.6	N/A	N/A
2525.00000	1 of 1	2796.910116	110.8	N/A	N/A
10100.00000	1 of 1	10568.937184	104.6	N/A	N/A
20200.00000	1 of 1	19349.220166	95.8	N/A	N/A

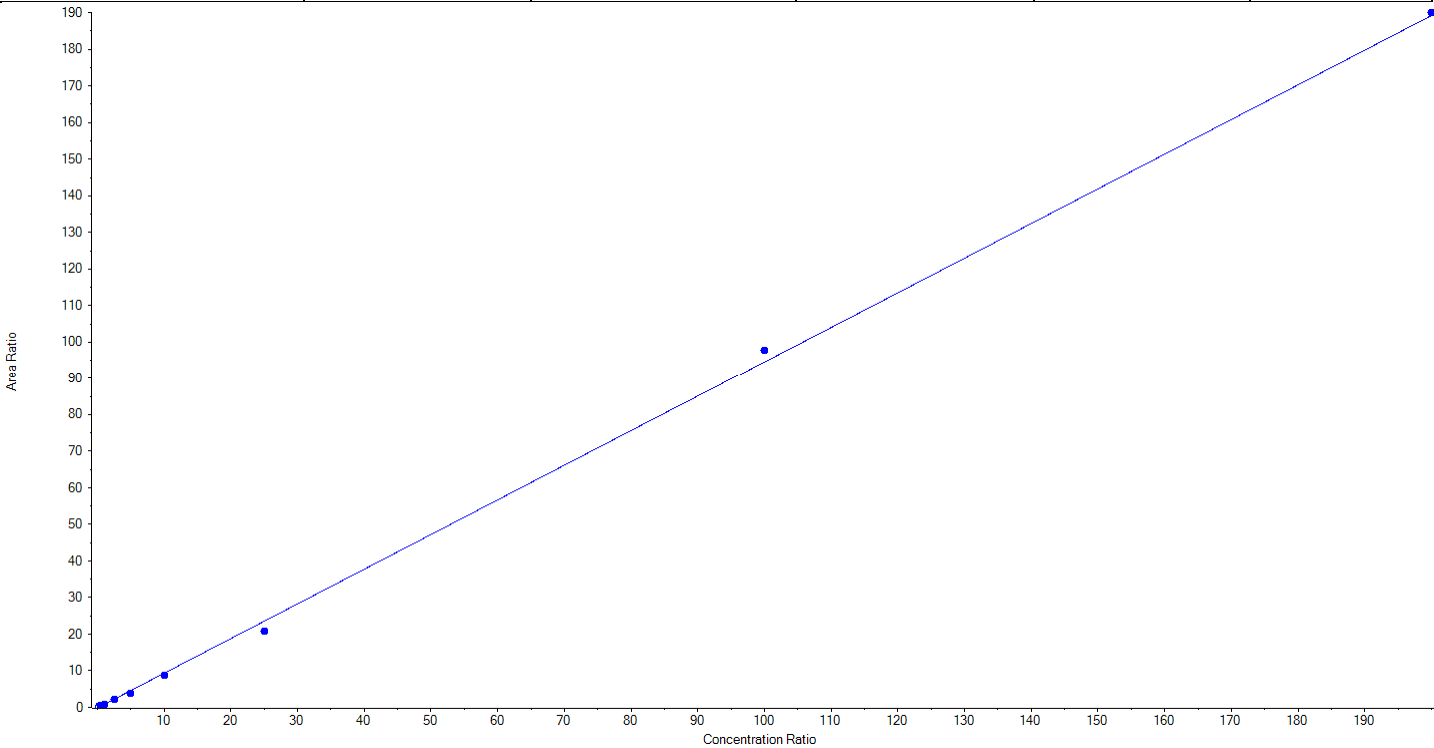


Analyte Name: PFOA_1
Internal Standard: 13C8-PFOA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.94687x + -0.12530$ ($r = 0.99894$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	64.906343	129.8	N/A	N/A
100.00000	1 of 1	103.754820	103.8	N/A	N/A
250.00000	1 of 1	245.616257	98.3	N/A	N/A
500.00000	1 of 1	411.578937	82.3	N/A	N/A
1000.00000	1 of 1	935.494107	93.6	N/A	N/A
2500.00000	1 of 1	2212.000554	88.5	N/A	N/A
10000.00000	1 of 1	10341.505236	103.4	N/A	N/A
20000.00000	1 of 1	20085.143746	100.4	N/A	N/A

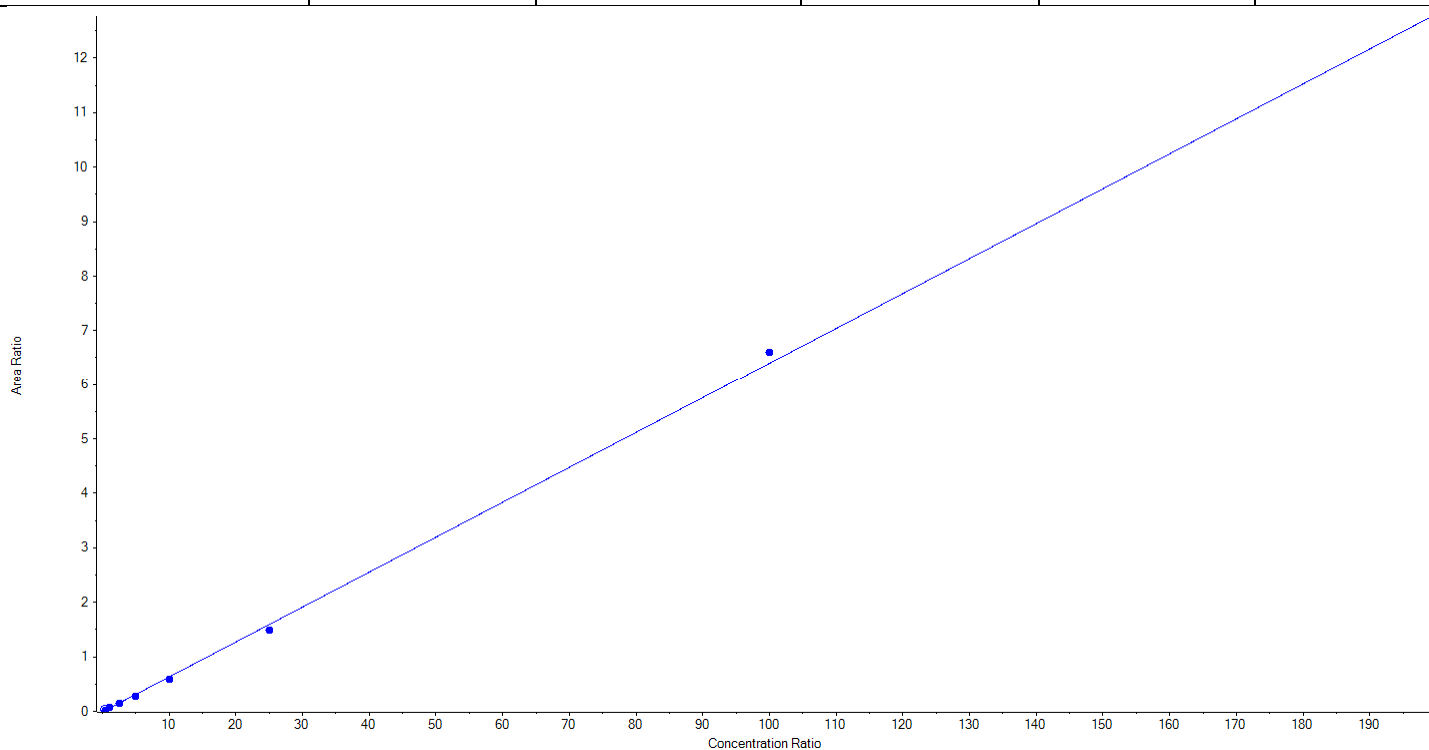


Analyte Name: PFOA_2
Internal Standard: 13C8-PFOA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.06408x + -0.00873$ ($r = 0.99936$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	46.202837	92.4	N/A	N/A
100.00000	1 of 1	129.513486	129.5	N/A	N/A
250.00000	1 of 1	250.652124	100.3	N/A	N/A
500.00000	1 of 1	437.291935	87.5	N/A	N/A
1000.00000	1 of 1	937.461254	93.8	N/A	N/A
2500.00000	1 of 1	2342.170705	93.7	N/A	N/A
10000.00000	1 of 1	10329.022157	103.3	N/A	N/A
20000.00000	1 of 1	19927.685501	99.6	N/A	N/A

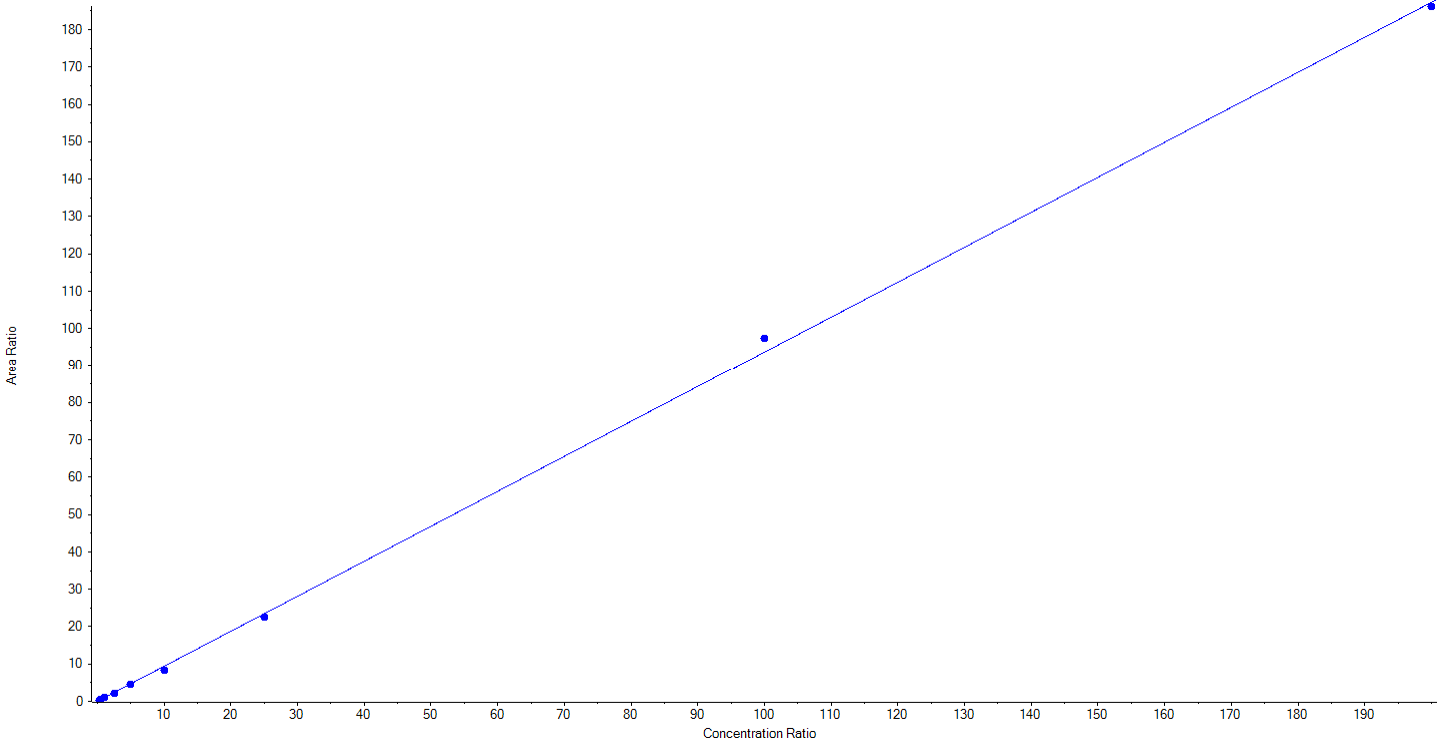


Analyte Name: PFNA_1
Internal Standard: 13C9-PFNA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.93630x + 0.04136$ (r = 0.99939) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	26.408705	105.6	N/A	N/A
50.00000	1 of 1	57.571578	115.1	N/A	N/A
100.00000	1 of 1	110.965588	111.0	N/A	N/A
250.00000	1 of 1	214.792597	85.9	N/A	N/A
500.00000	1 of 1	472.424505	94.5	N/A	N/A
1000.00000	1 of 1	888.246591	88.8	N/A	N/A
2500.00000	1 of 1	2395.783223	95.8	N/A	N/A
10000.00000	1 of 1	10380.894532	103.8	N/A	N/A
20000.00000	1 of 1	19877.912682	99.4	N/A	N/A

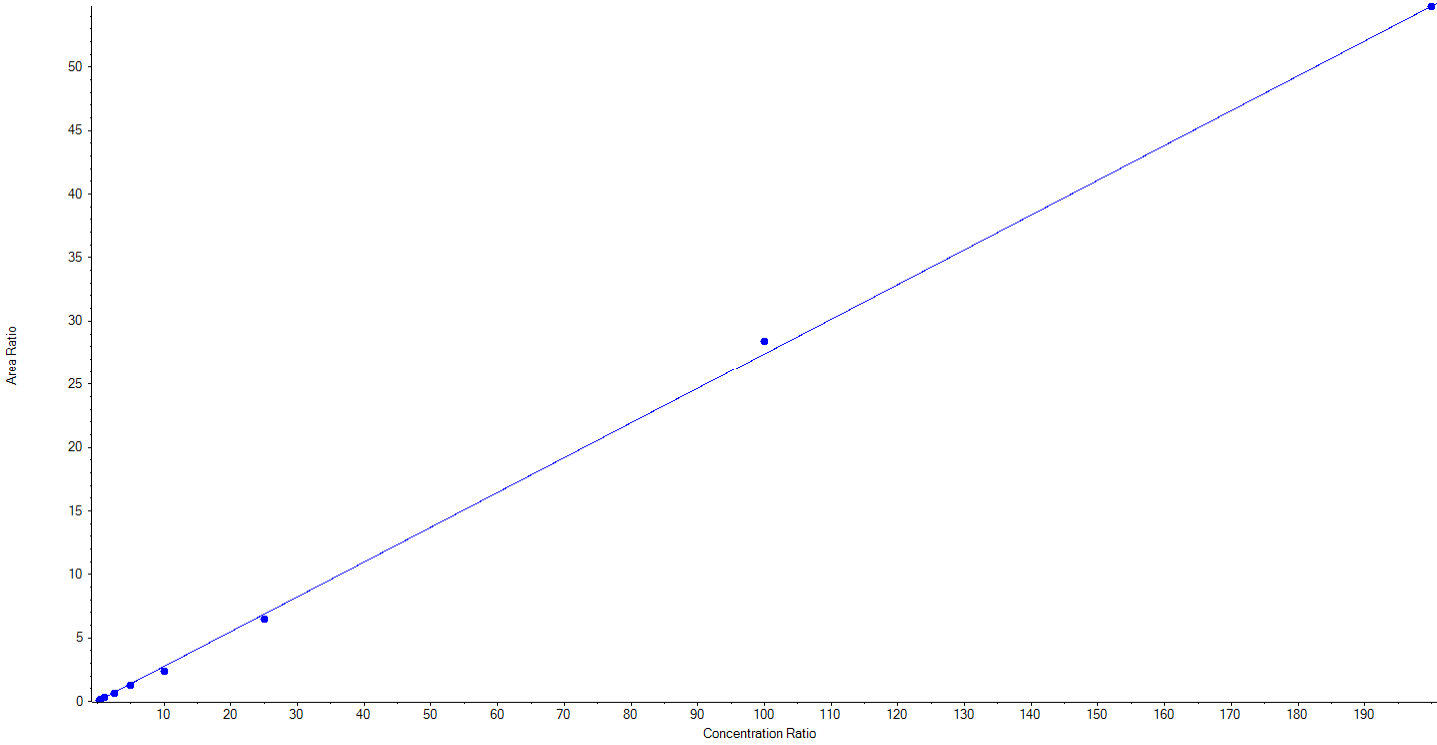


Analyte Name: PFNA_2
Internal Standard: 13C9-PFNA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.27387x + 0.01962$ (r = 0.99922) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	28.172571	112.7	N/A	N/A
50.00000	1 of 1	58.909086	117.8	N/A	N/A
100.00000	1 of 1	106.814777	106.8	N/A	N/A
250.00000	1 of 1	220.169138	88.1	N/A	N/A
500.00000	1 of 1	457.975669	91.6	N/A	N/A
1000.00000	1 of 1	853.213868	85.3	N/A	N/A
2500.00000	1 of 1	2354.800788	94.2	N/A	N/A
10000.00000	1 of 1	10355.167921	103.6	N/A	N/A
20000.00000	1 of 1	19989.776181	100.0	N/A	N/A

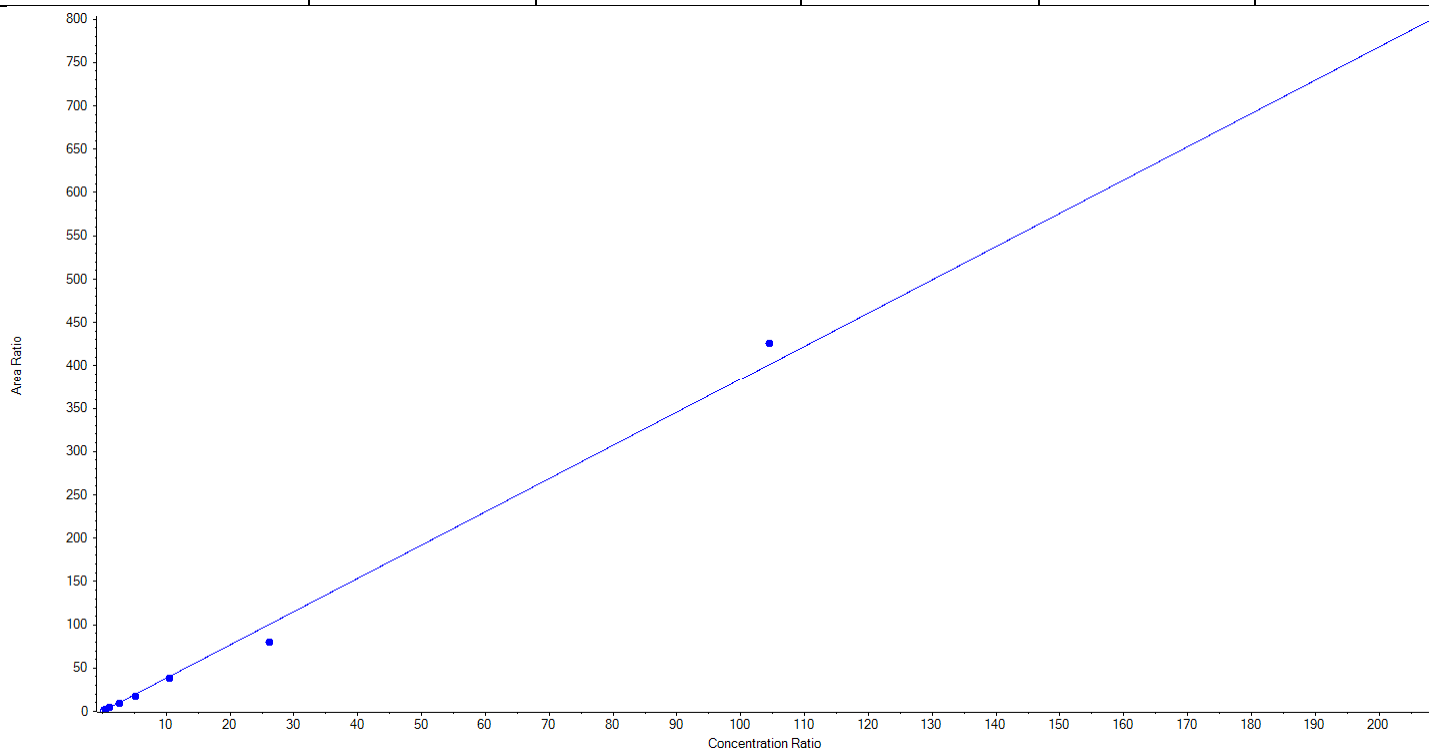


Analyte Name: PFOS_1
Internal Standard: 13C8-PFOS

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 3.84024 x + -0.03957$ (r = 0.99757) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	59.585154	119.2	N/A	N/A
100.00000	1 of 1	121.841415	121.8	N/A	N/A
250.00000	1 of 1	227.760706	91.1	N/A	N/A
500.00000	1 of 1	436.117197	87.2	N/A	N/A
1000.00000	1 of 1	949.783027	95.0	N/A	N/A
2500.00000	1 of 1	1989.930640	79.6	N/A	N/A
10000.00000	1 of 1	10602.023283	106.0	N/A	N/A
20000.00000	1 of 1	20012.958577	100.1	N/A	N/A

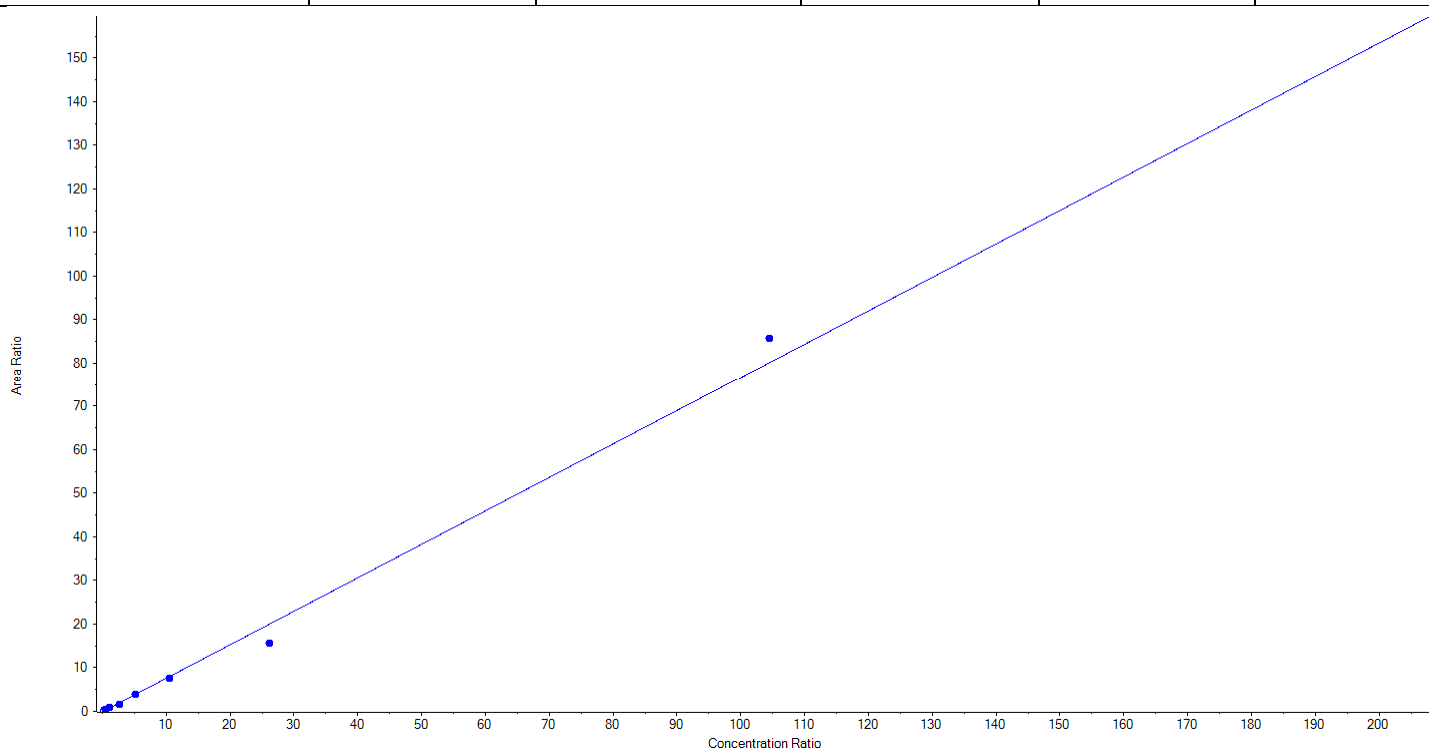


Analyte Name: PFOS_2
Internal Standard: 13C8-PFOS

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.76758x + -0.06908$ (r = 0.99718) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	54.284882	108.6	N/A	N/A
100.00000	1 of 1	124.600002	124.6	N/A	N/A
250.00000	1 of 1	220.153966	88.1	N/A	N/A
500.00000	1 of 1	489.624992	97.9	N/A	N/A
1000.00000	1 of 1	965.520411	96.6	N/A	N/A
2500.00000	1 of 1	1944.107796	77.8	N/A	N/A
10000.00000	1 of 1	10703.751120	107.0	N/A	N/A
20000.00000	1 of 1	19897.956831	99.5	N/A	N/A

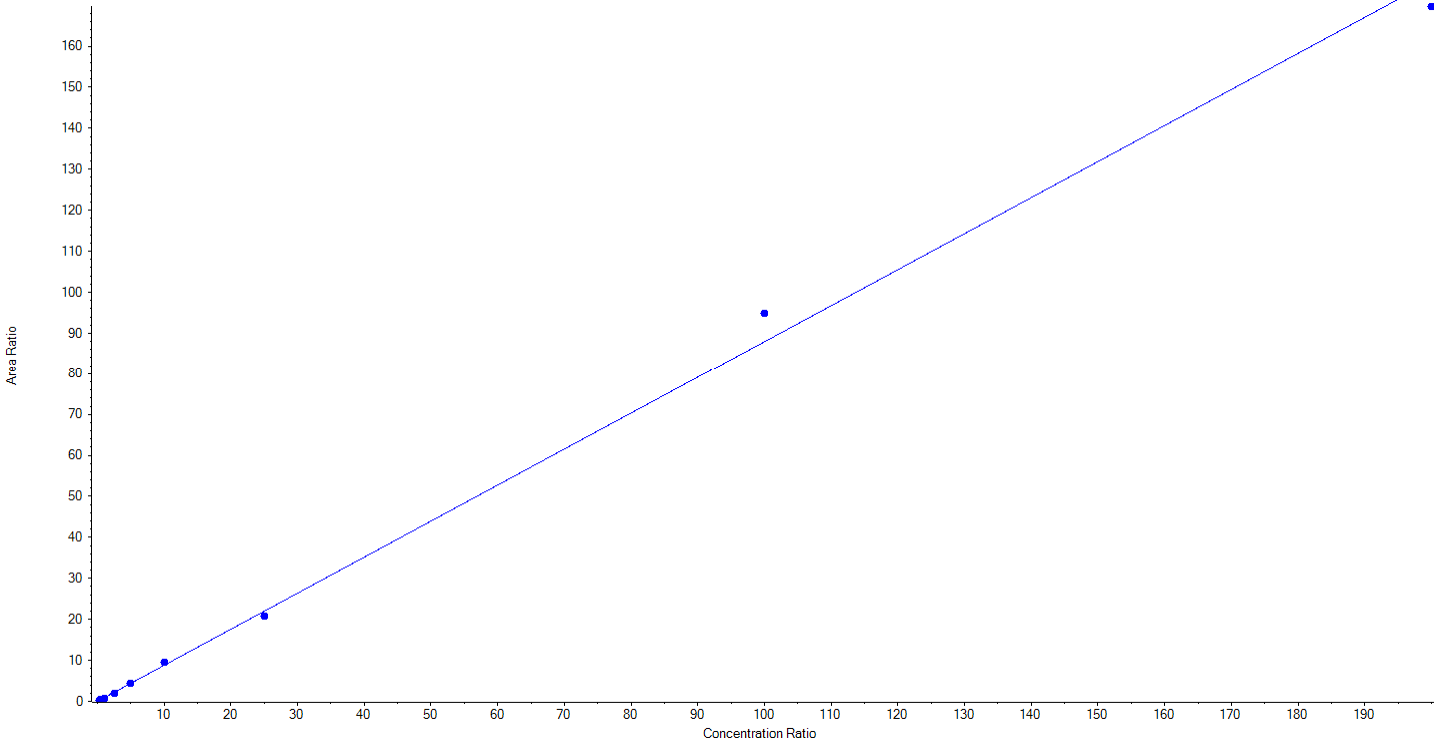


Analyte Name: PFDA_1
Internal Standard: 13C6-PFDA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.87913x + 0.01398$ (r = 0.99840) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	24.035377	96.1	N/A	N/A
50.00000	1 of 1	57.556930	115.1	N/A	N/A
100.00000	1 of 1	94.427831	94.4	N/A	N/A
250.00000	1 of 1	219.062611	87.6	N/A	N/A
500.00000	1 of 1	493.107586	98.6	N/A	N/A
1000.00000	1 of 1	1091.945398	109.2	N/A	N/A
2500.00000	1 of 1	2364.046126	94.6	N/A	N/A
10000.00000	1 of 1	10781.952515	107.8	N/A	N/A
20000.00000	1 of 1	19298.865625	96.5	N/A	N/A

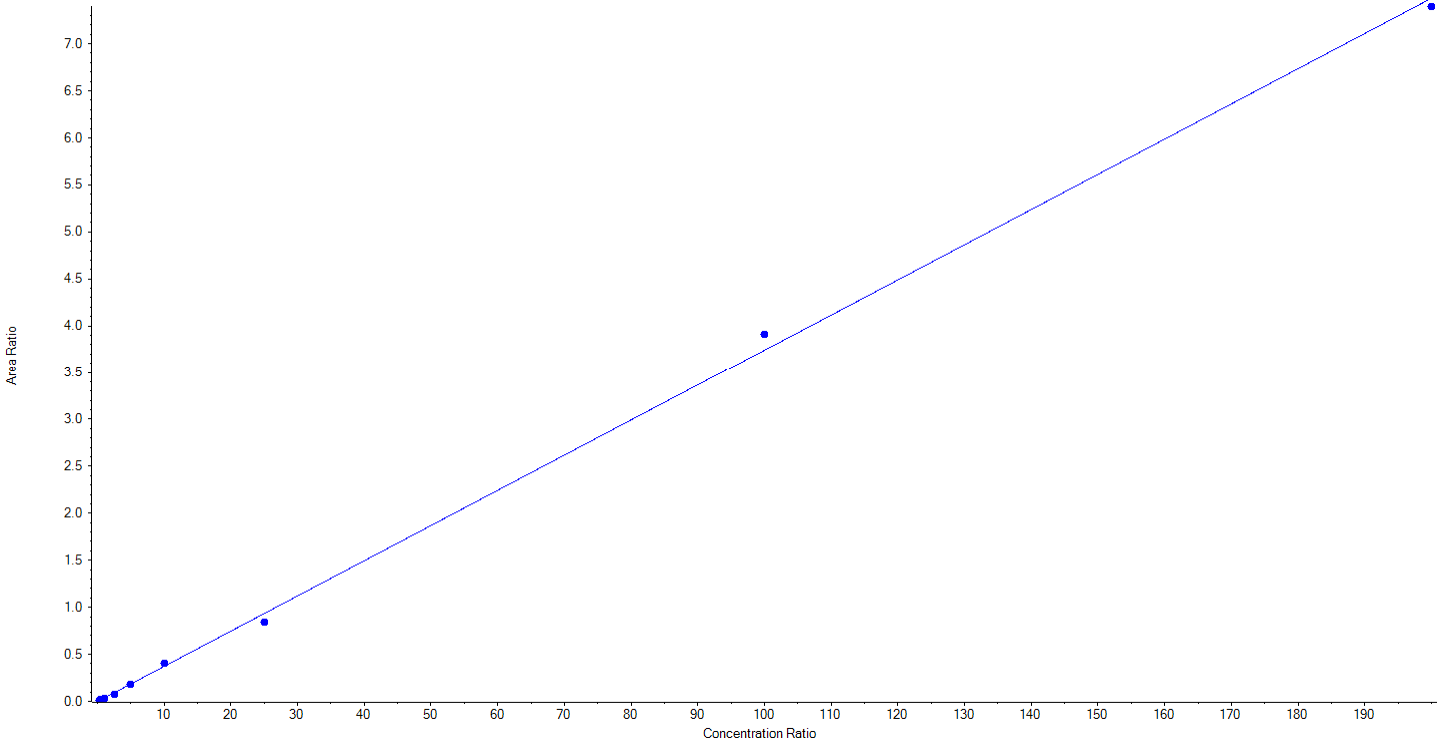


Analyte Name: PFDA_2
Internal Standard: 13C6-PFDA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.03742 x + -0.00182$ (r = 0.99901) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	25.433676	101.7	N/A	N/A
50.00000	1 of 1	62.066931	124.1	N/A	N/A
100.00000	1 of 1	92.544003	92.5	N/A	N/A
250.00000	1 of 1	201.954782	80.8	N/A	N/A
500.00000	1 of 1	492.412977	98.5	N/A	N/A
1000.00000	1 of 1	1087.996321	108.8	N/A	N/A
2500.00000	1 of 1	2257.225740	90.3	N/A	N/A
10000.00000	1 of 1	10441.486410	104.4	N/A	N/A
20000.00000	1 of 1	19763.879159	98.8	N/A	N/A

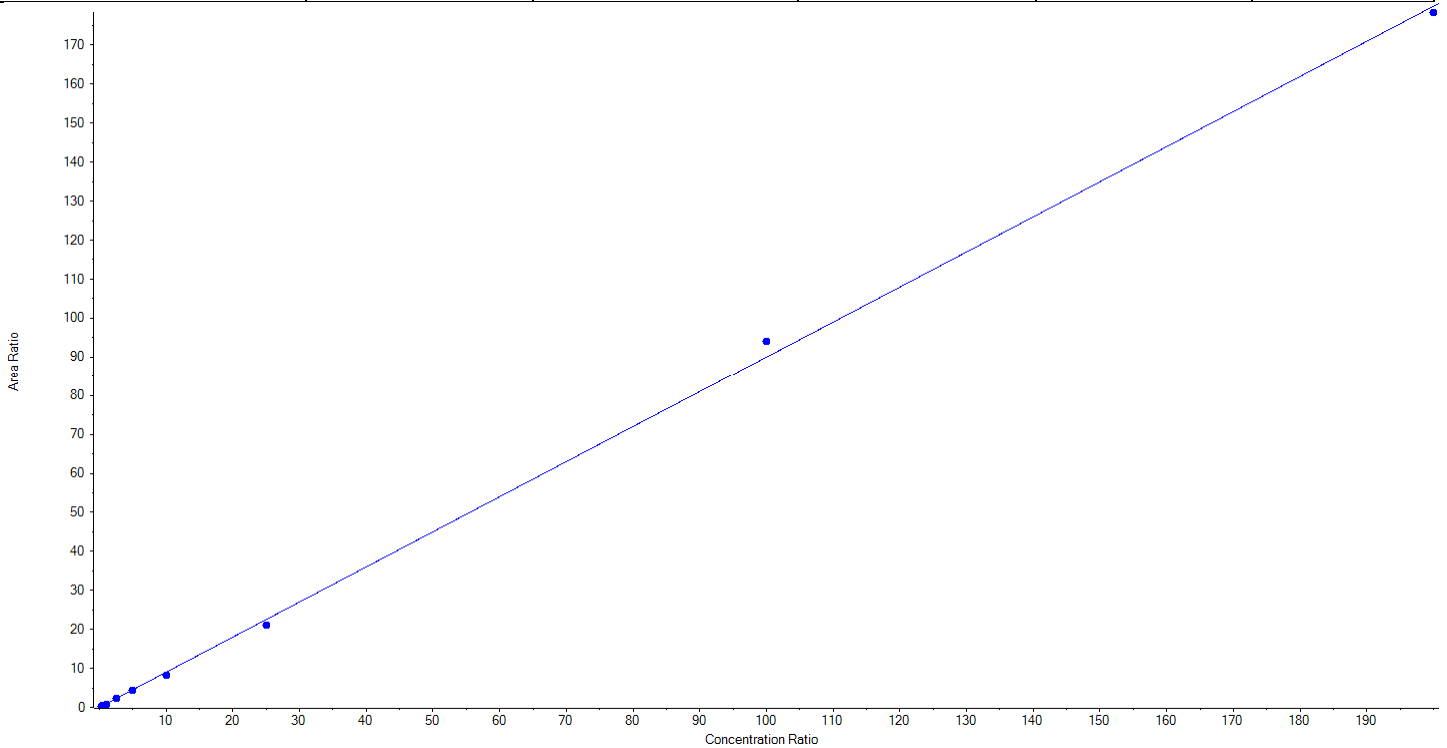


Analyte Name: PFUnA_1
Internal Standard: 13C7-PFUnA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.89966x + 0.03115$ ($r = 0.99935$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.539769	122.2	N/A	N/A
50.00000	1 of 1	53.213871	106.4	N/A	N/A
100.00000	1 of 1	87.727520	87.7	N/A	N/A
250.00000	1 of 1	243.008644	97.2	N/A	N/A
500.00000	1 of 1	489.433442	97.9	N/A	N/A
1000.00000	1 of 1	916.880554	91.7	N/A	N/A
2500.00000	1 of 1	2332.216351	93.3	N/A	N/A
10000.00000	1 of 1	10451.781599	104.5	N/A	N/A
20000.00000	1 of 1	19820.198250	99.1	N/A	N/A

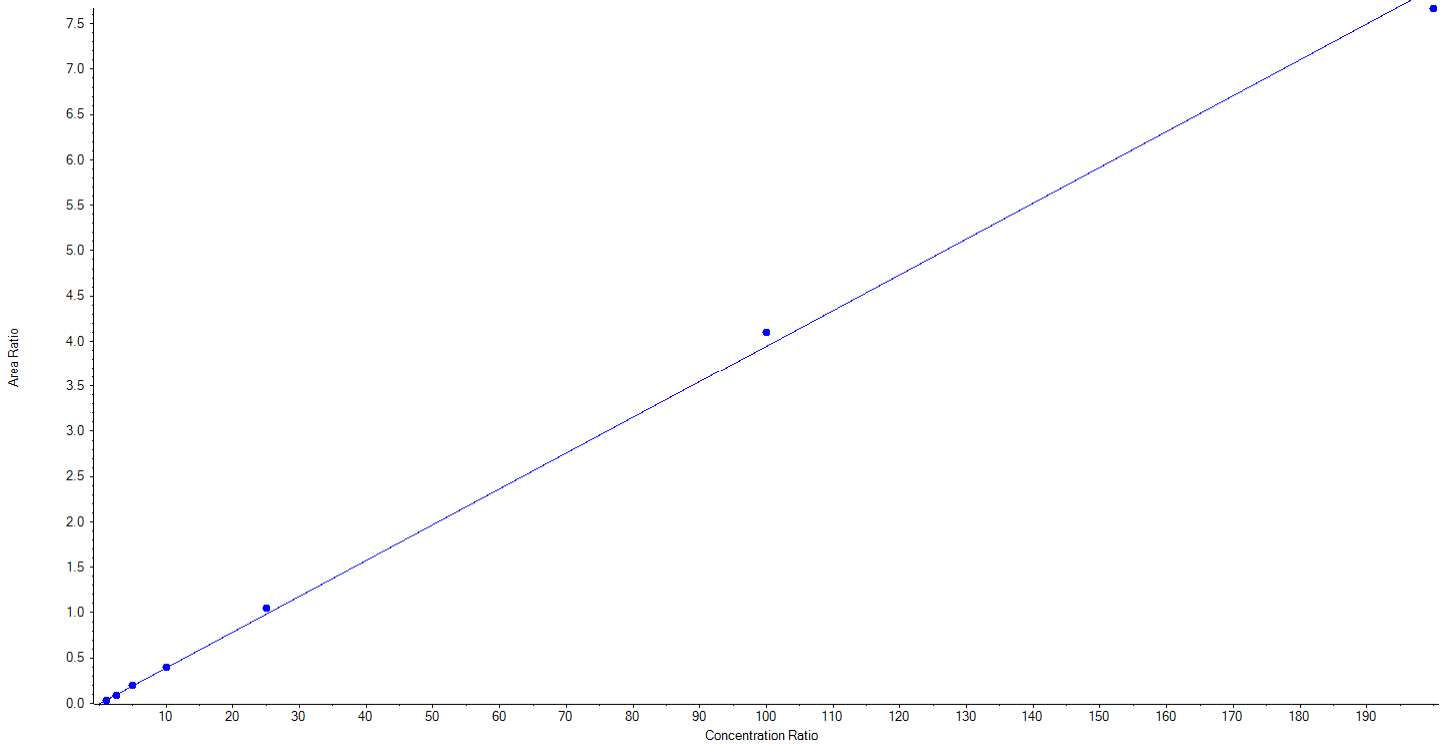


Analyte Name: PFUnA_2
Internal Standard: 13C7-PFUnA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.03948x + -0.00431$ ($r = 0.99930$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	88.805487	88.8	N/A	N/A
250.00000	1 of 1	247.271558	98.9	N/A	N/A
500.00000	1 of 1	511.823131	102.4	N/A	N/A
1000.00000	1 of 1	1021.078885	102.1	N/A	N/A
2500.00000	1 of 1	2671.784446	106.9	N/A	N/A
10000.00000	1 of 1	10379.162990	103.8	N/A	N/A
20000.00000	1 of 1	19430.073503	97.2	N/A	N/A

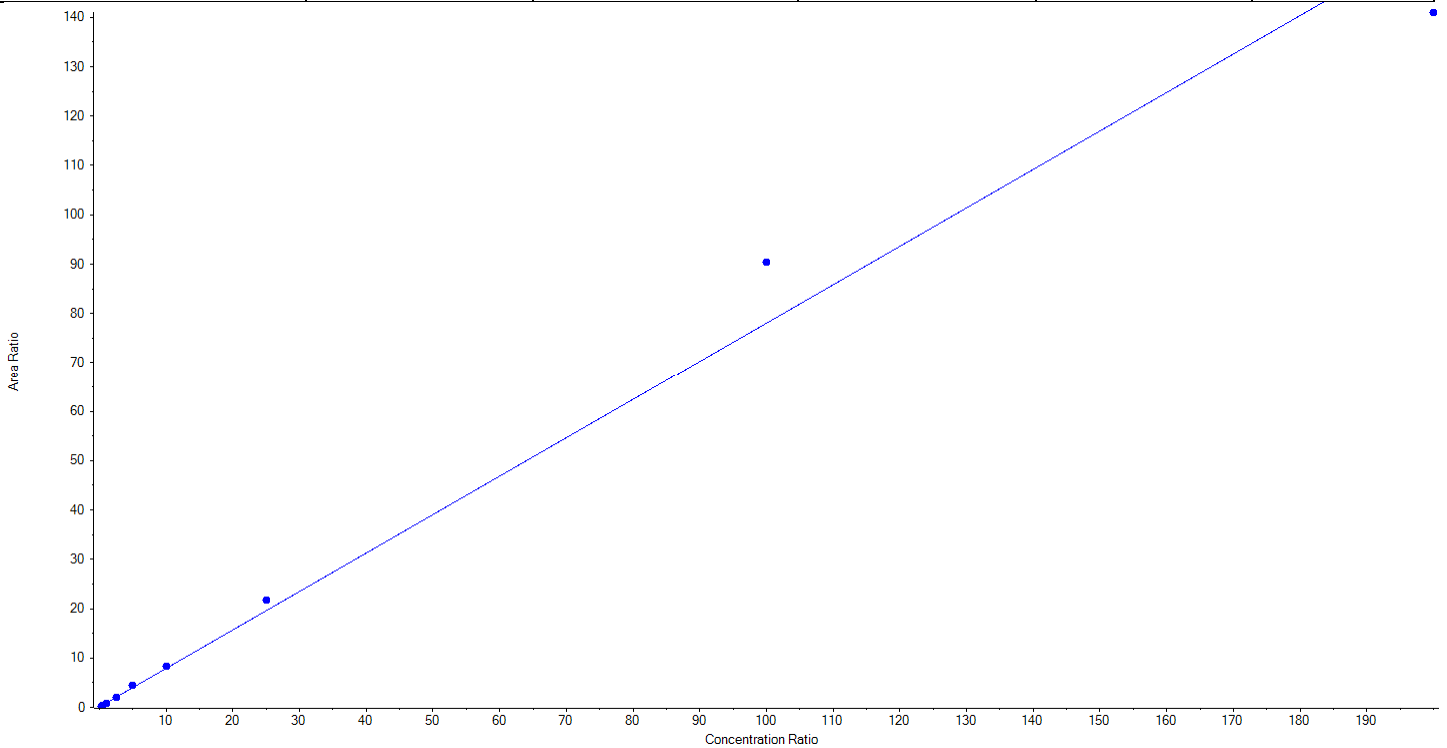


Analyte Name: PFDaA_1
Internal Standard: 13C2-PFDaA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.77920x + 0.11392$ ($r = 0.99305$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.855428	83.4	N/A	N/A
50.00000	1 of 1	43.460589	86.9	N/A	N/A
100.00000	1 of 1	97.328906	97.3	N/A	N/A
250.00000	1 of 1	254.126128	101.7	N/A	N/A
500.00000	1 of 1	546.898506	109.4	N/A	N/A
1000.00000	1 of 1	1045.976761	104.6	N/A	N/A
2500.00000	1 of 1	2764.238202	110.6	N/A	N/A
10000.00000	1 of 1	11574.054096	115.7	N/A	N/A
20000.00000	1 of 1	18078.061385	90.4	N/A	N/A

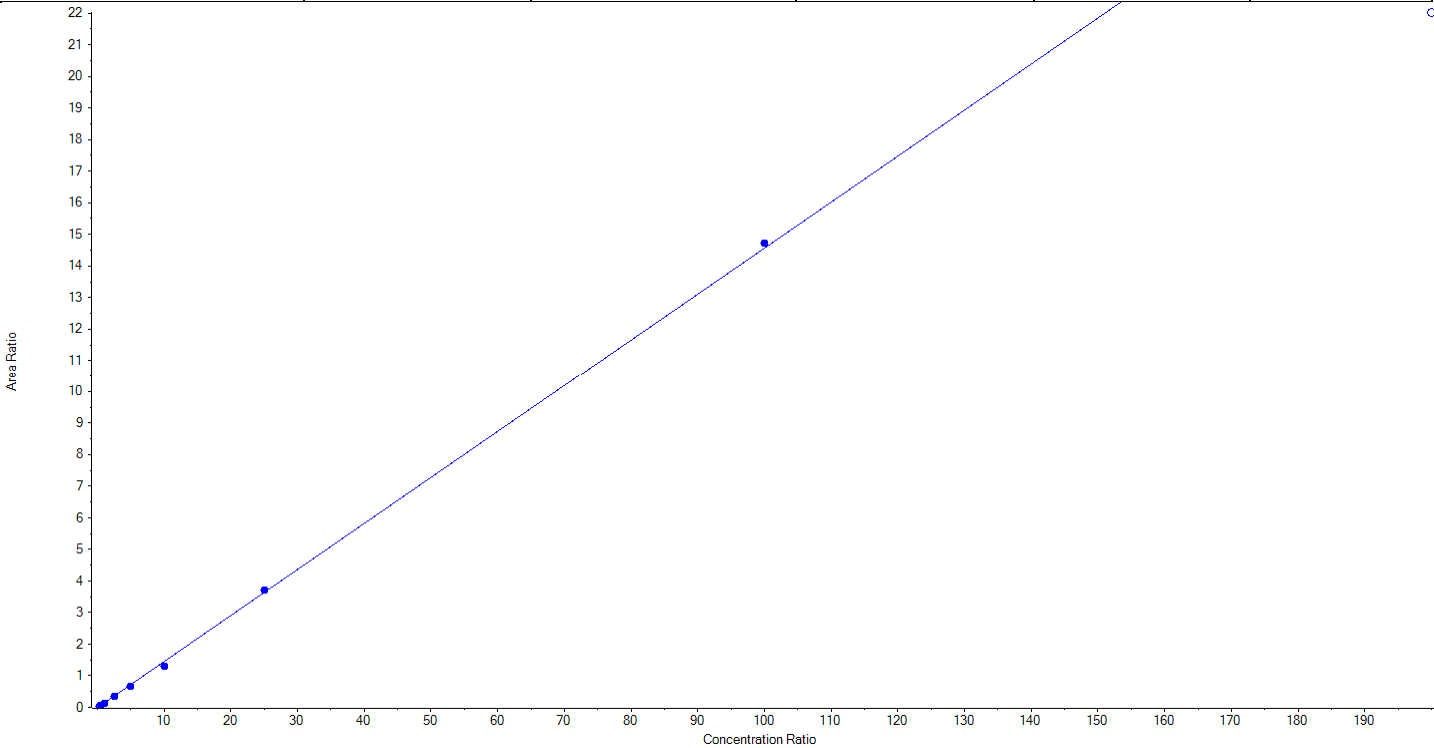


Analyte Name: PFDaA_2
Internal Standard: 13C2-PFDaA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.14569x + -0.00475$ ($r = 0.99928$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.406706	129.6	N/A	N/A
50.00000	1 of 1	46.829534	93.7	N/A	N/A
100.00000	1 of 1	97.165942	97.2	N/A	N/A
250.00000	1 of 1	236.471294	94.6	N/A	N/A
500.00000	1 of 1	462.765301	92.6	N/A	N/A
1000.00000	1 of 1	893.050019	89.3	N/A	N/A
2500.00000	1 of 1	2551.282434	102.1	N/A	N/A
10000.00000	1 of 1	10105.028769	101.1	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

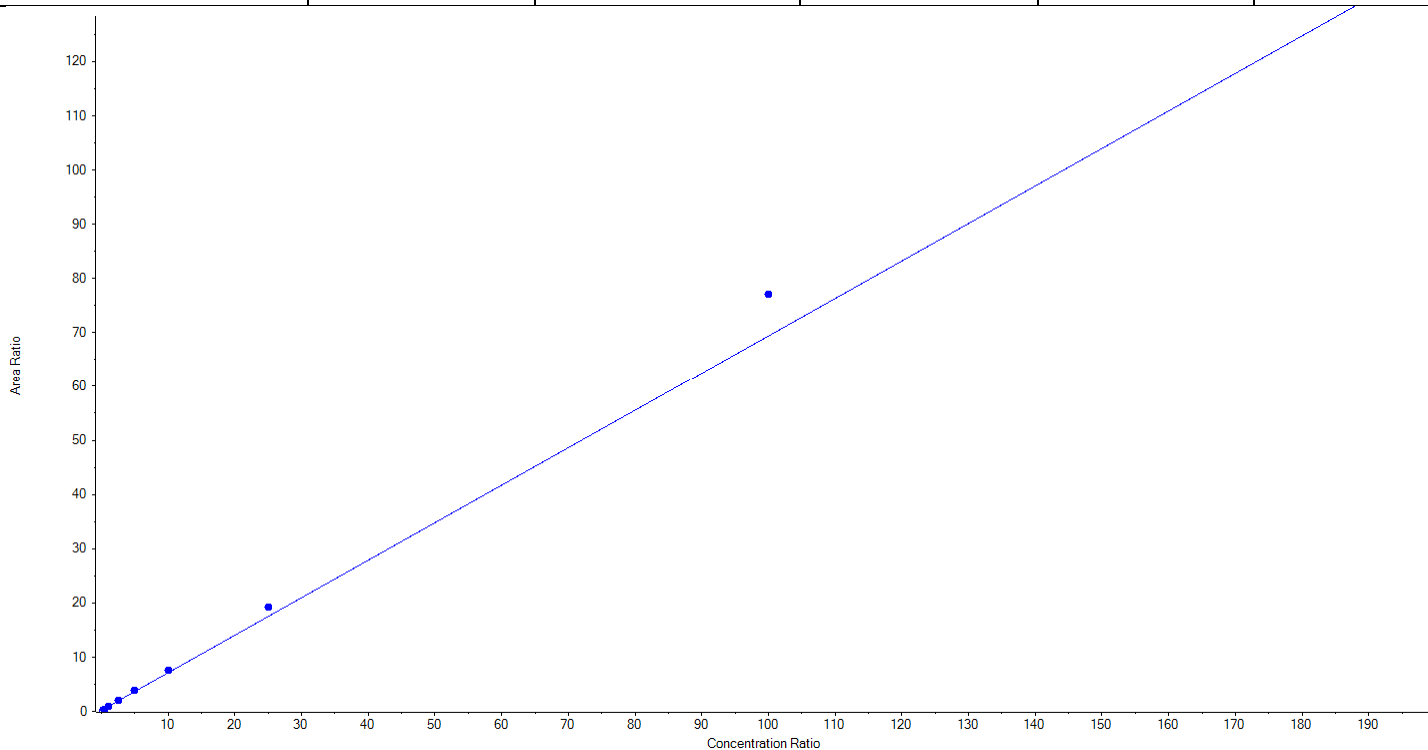


Analyte Name: PFTTrDA_1
Internal Standard: 13C2-PFTeDA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.69172x + 0.21088$ ($r = 0.99580$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	35.913950	71.8	N/A	N/A
100.00000	1 of 1	92.386404	92.4	N/A	N/A
250.00000	1 of 1	267.580630	107.0	N/A	N/A
500.00000	1 of 1	535.938234	107.2	N/A	N/A
1000.00000	1 of 1	1076.274180	107.6	N/A	N/A
2500.00000	1 of 1	2753.169286	110.1	N/A	N/A
10000.00000	1 of 1	11123.584284	111.2	N/A	N/A
20000.00000	1 of 1	18515.153032	92.6	N/A	N/A

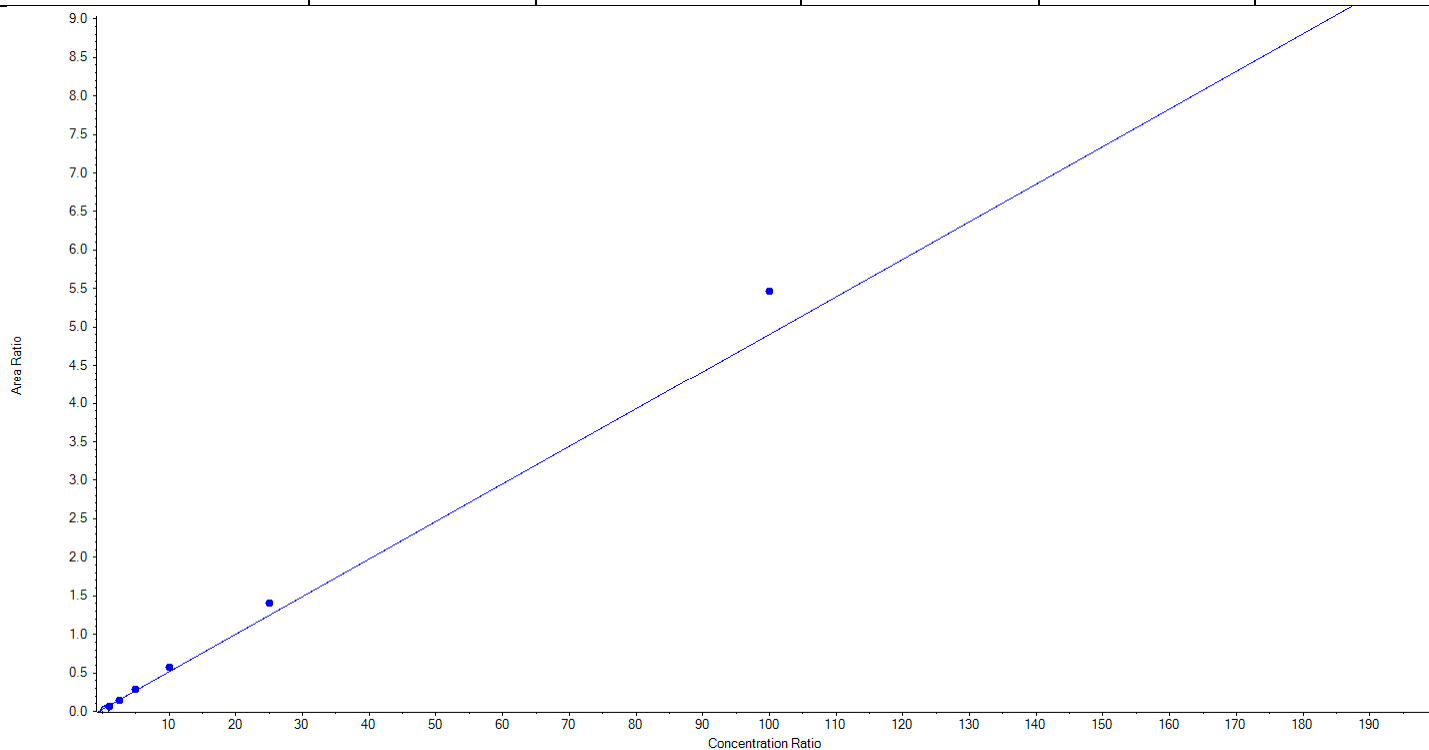


Analyte Name: PFTTrDA_2
Internal Standard: 13C2-PFTeDA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04877x + 0.02686$ ($r = 0.99515$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	76.773814	76.8	N/A	N/A
250.00000	1 of 1	229.999584	92.0	N/A	N/A
500.00000	1 of 1	520.388921	104.1	N/A	N/A
1000.00000	1 of 1	1107.771007	110.8	N/A	N/A
2500.00000	1 of 1	2817.086727	112.7	N/A	N/A
10000.00000	1 of 1	11139.619812	111.4	N/A	N/A
20000.00000	1 of 1	18458.360135	92.3	N/A	N/A

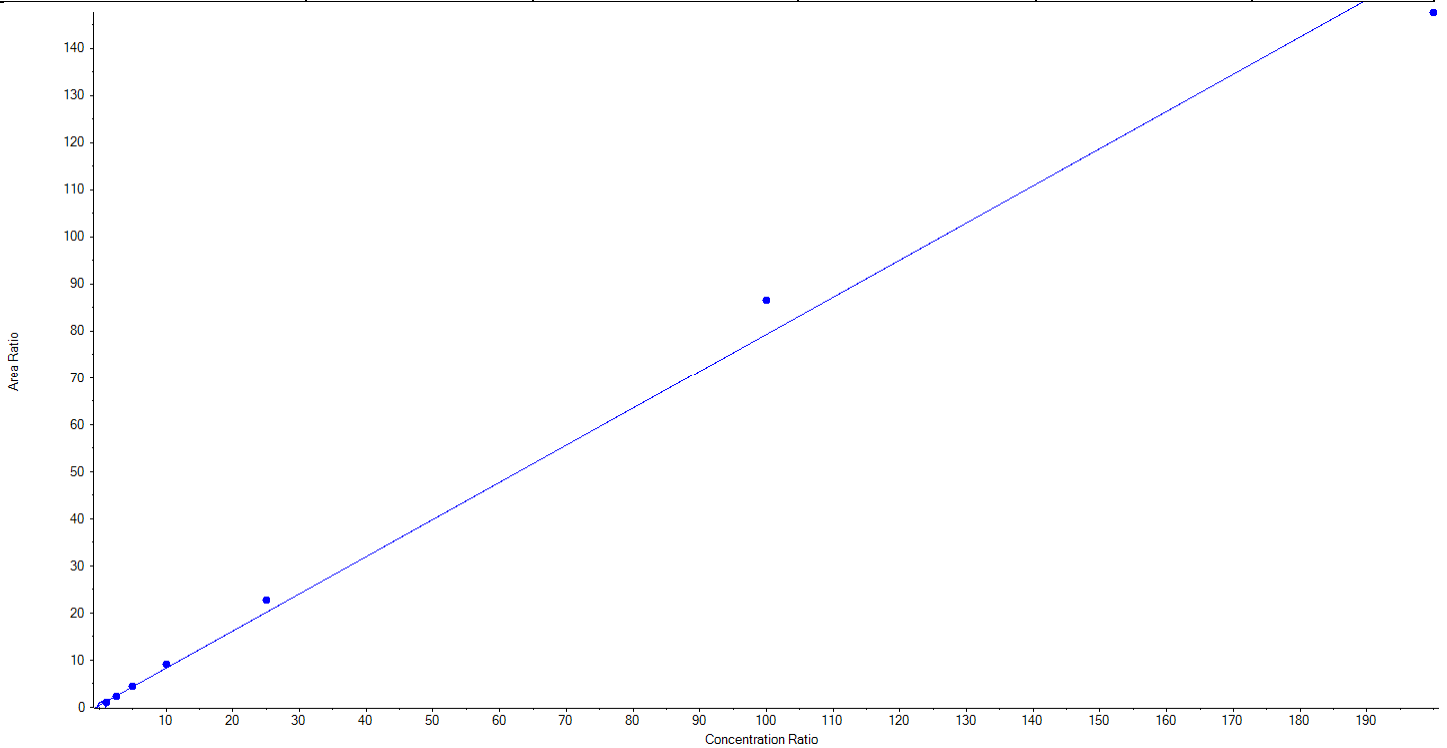


Analyte Name: PFTeDA_1
Internal Standard: 13C2-PFTeDA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.78885x + 0.43047$ ($r = 0.99623$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	71.817555	71.8	N/A	N/A
250.00000	1 of 1	245.085808	98.0	N/A	N/A
500.00000	1 of 1	517.938481	103.6	N/A	N/A
1000.00000	1 of 1	1105.559256	110.6	N/A	N/A
2500.00000	1 of 1	2839.848279	113.6	N/A	N/A
10000.00000	1 of 1	10912.363228	109.1	N/A	N/A
20000.00000	1 of 1	18657.387394	93.3	N/A	N/A

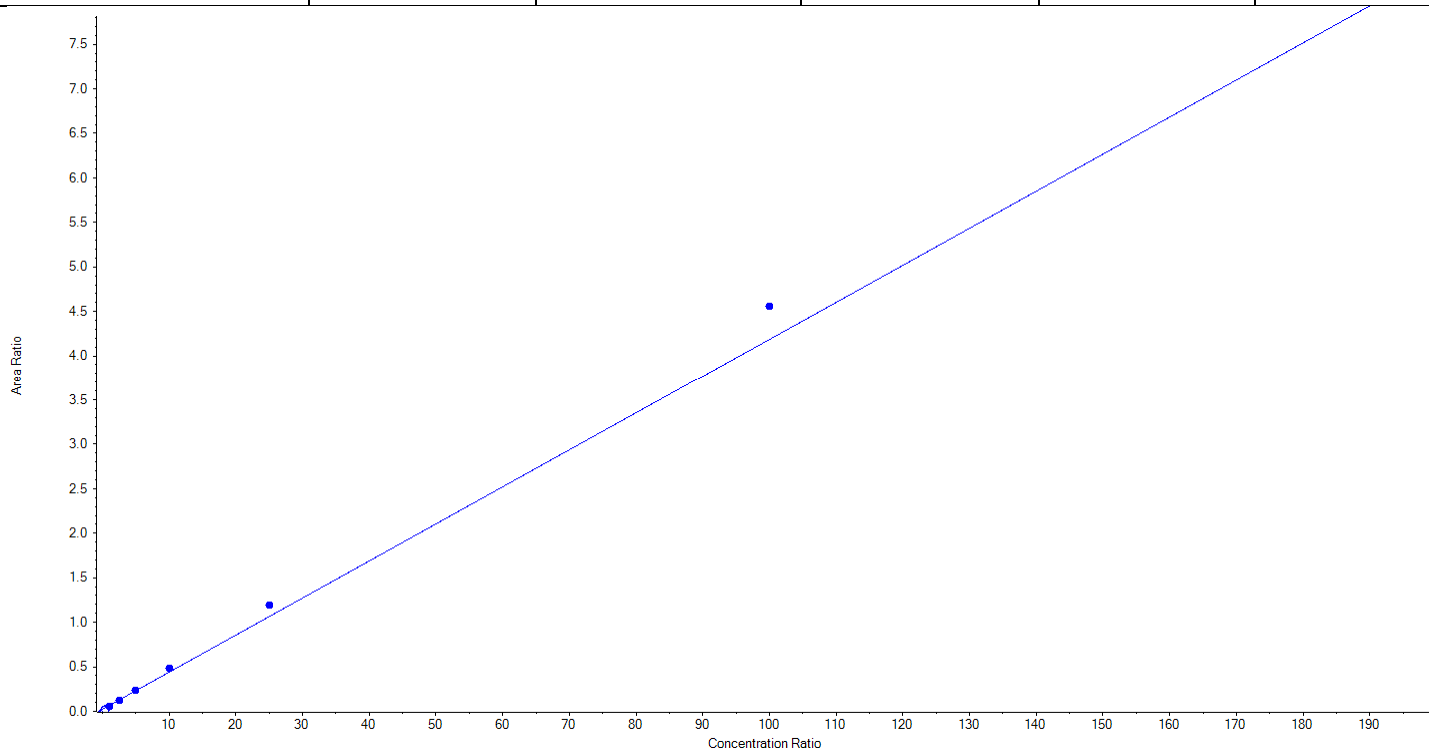


Analyte Name: PFTeDA_2
Internal Standard: 13C2-PFTeDA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04162x + 0.02436$ ($r = 0.99656$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	72.757944	72.8	N/A	N/A
250.00000	1 of 1	249.187337	99.7	N/A	N/A
500.00000	1 of 1	517.884349	103.6	N/A	N/A
1000.00000	1 of 1	1091.324172	109.1	N/A	N/A
2500.00000	1 of 1	2807.397684	112.3	N/A	N/A
10000.00000	1 of 1	10900.936811	109.0	N/A	N/A
20000.00000	1 of 1	18710.511703	93.6	N/A	N/A

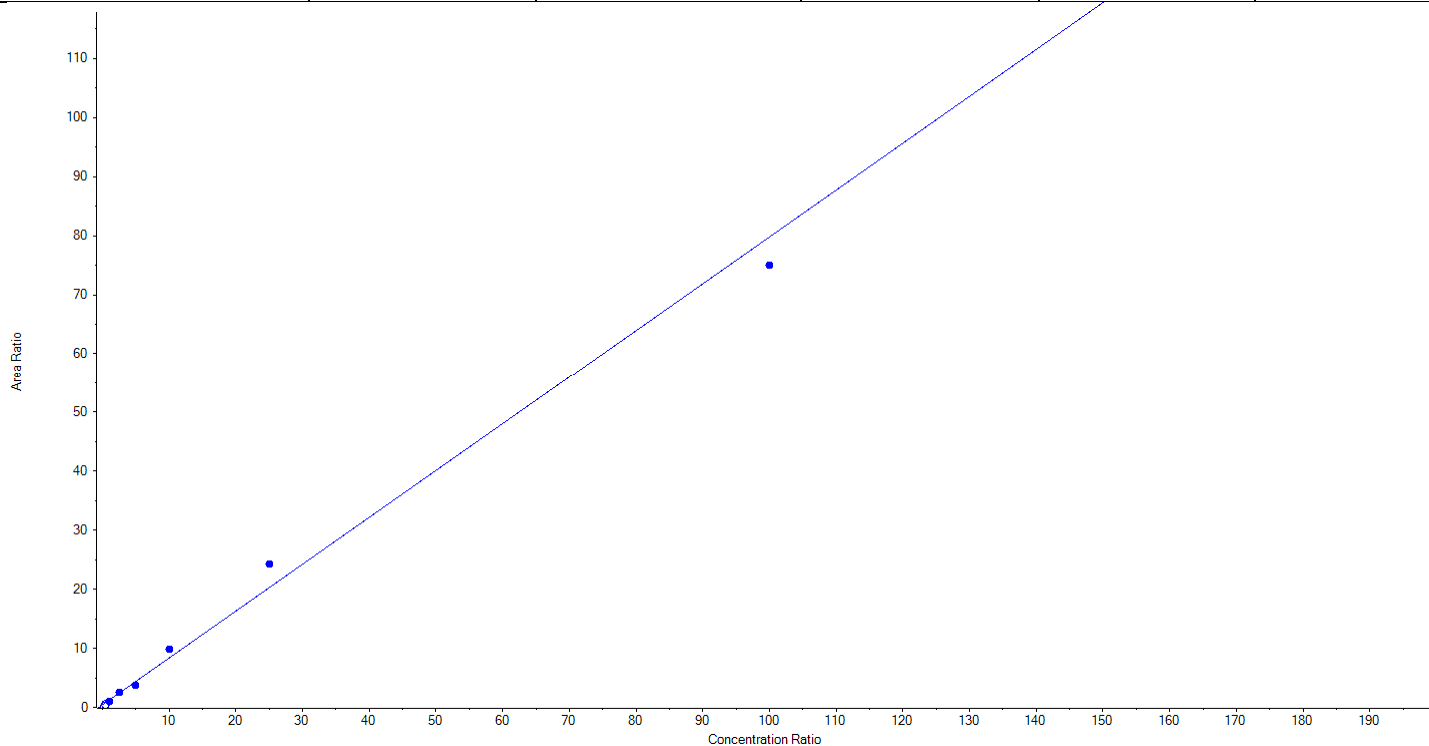


Analyte Name: NMeFOSAA_1
Internal Standard: d3-MeFOSAA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.79362x + 0.43415$ ($r = 0.99254$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	74.272755	74.3	N/A	N/A
250.00000	1 of 1	273.477984	109.4	N/A	N/A
500.00000	1 of 1	422.761715	84.6	N/A	N/A
1000.00000	1 of 1	1180.017983	118.0	N/A	N/A
2500.00000	1 of 1	2992.907145	119.7	N/A	N/A
10000.00000	1 of 1	9406.562418	94.1	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

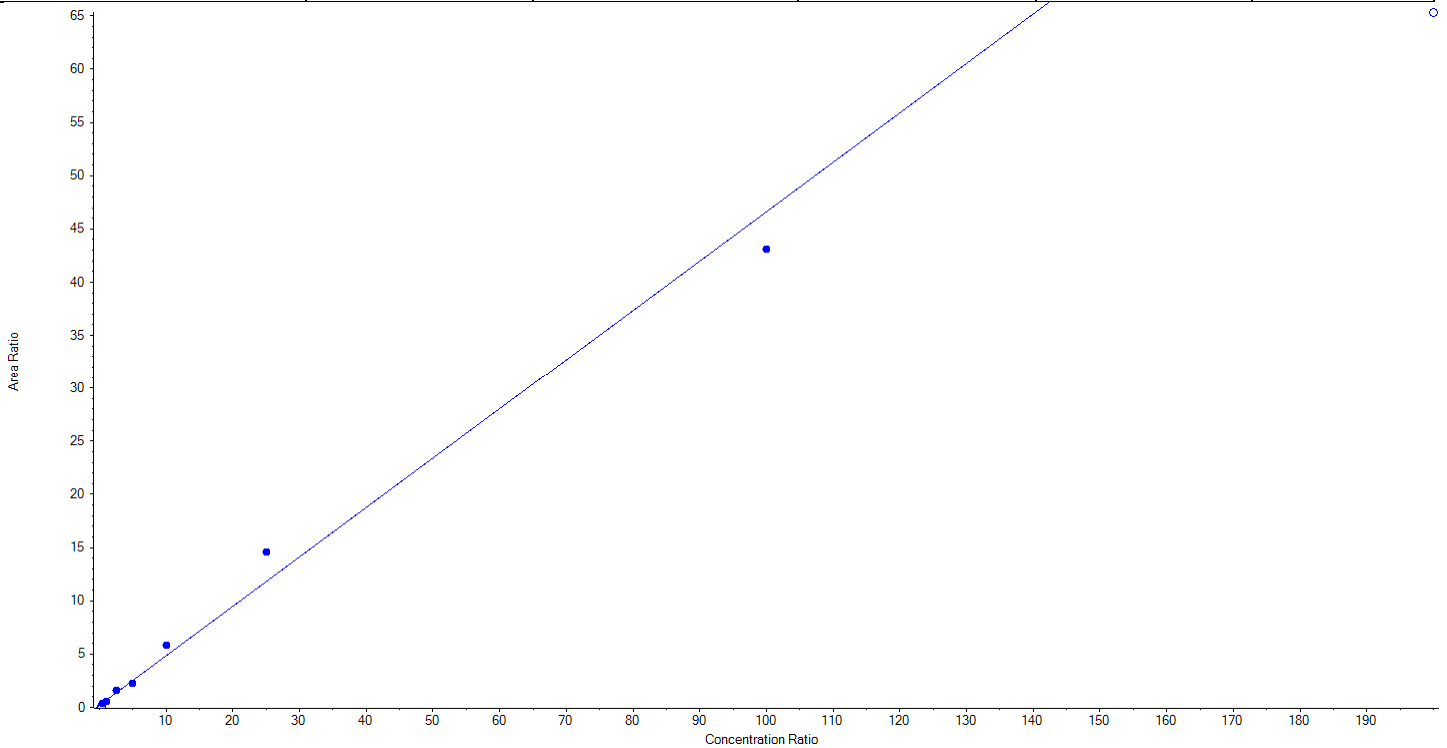


Analyte Name: NMeFOSAA_2
Internal Standard: d3-MeFOSAA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.46405x + 0.21158$ ($r = 0.99032$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	38.736195	77.5	N/A	N/A
100.00000	1 of 1	80.173295	80.2	N/A	N/A
250.00000	1 of 1	290.165590	116.1	N/A	N/A
500.00000	1 of 1	447.227836	89.5	N/A	N/A
1000.00000	1 of 1	1208.293784	120.8	N/A	N/A
2500.00000	1 of 1	3088.636692	123.6	N/A	N/A
10000.00000	1 of 1	9246.766608	92.5	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

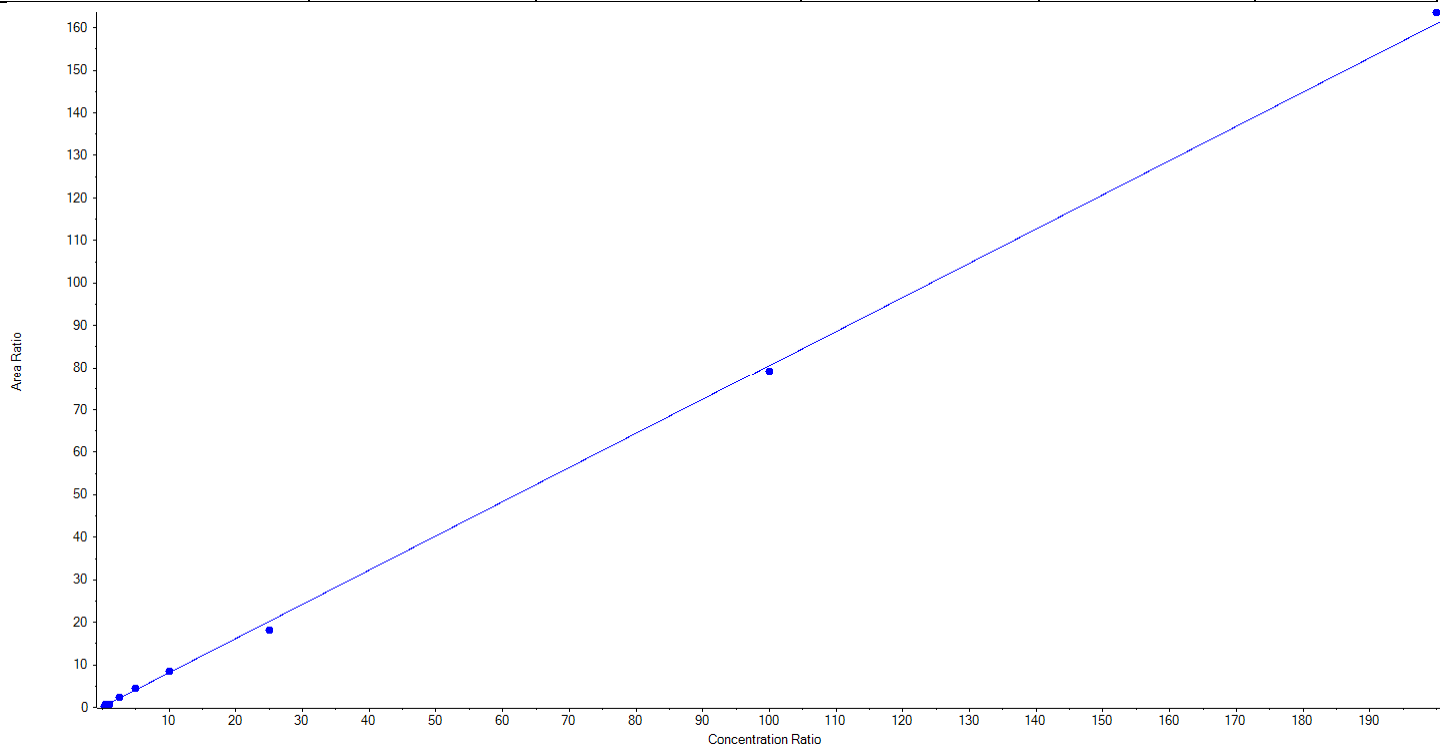


Analyte Name: NEtFOSAA_1
Internal Standard: d5-EtFOSAA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.80427x + 0.10895$ ($r = 0.99925$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	19.094443	76.4	N/A	N/A
50.00000	1 of 1	64.289932	128.6	N/A	N/A
100.00000	1 of 1	83.146585	83.2	N/A	N/A
250.00000	1 of 1	276.946160	110.8	N/A	N/A
500.00000	1 of 1	529.488560	105.9	N/A	N/A
1000.00000	1 of 1	1054.448961	105.4	N/A	N/A
2500.00000	1 of 1	2247.617650	89.9	N/A	N/A
10000.00000	1 of 1	9824.032079	98.2	N/A	N/A
20000.00000	1 of 1	20325.935630	101.6	N/A	N/A

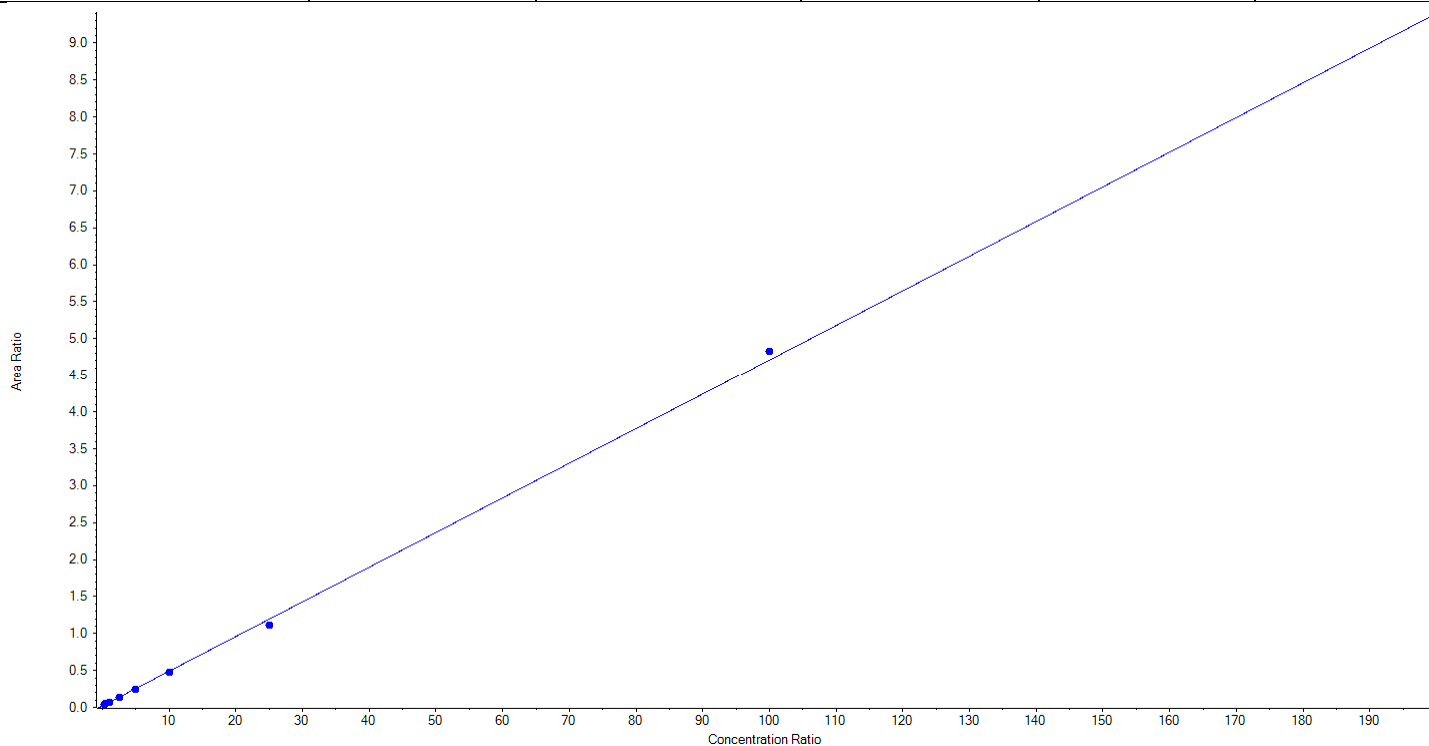


Analyte Name: NEtFOSAA_2
Internal Standard: d5-EtFOSAA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04689x + 0.02133$ ($r = 0.99956$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	29.600031	118.4	N/A	N/A
50.00000	1 of 1	56.985468	114.0	N/A	N/A
100.00000	1 of 1	92.381424	92.4	N/A	N/A
250.00000	1 of 1	230.691938	92.3	N/A	N/A
500.00000	1 of 1	460.829454	92.2	N/A	N/A
1000.00000	1 of 1	955.498792	95.6	N/A	N/A
2500.00000	1 of 1	2313.434396	92.5	N/A	N/A
10000.00000	1 of 1	10257.940241	102.6	N/A	N/A
20000.00000	1 of 1	20027.638257	100.1	N/A	N/A

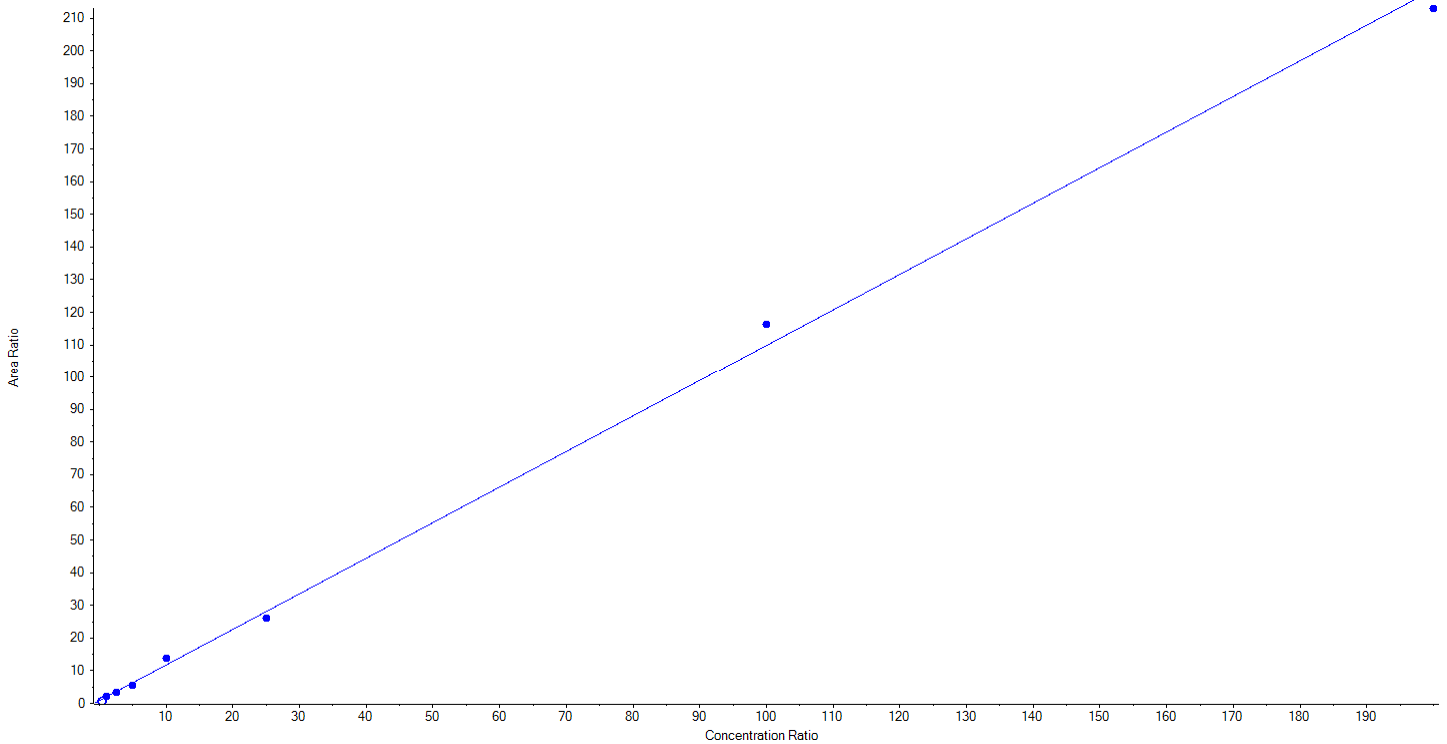


Analyte Name: PFBA
Internal Standard: 13C4-PFBA

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 1.08948x + 0.86240$ ($r = 0.99816$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	105.189946	105.2	N/A	N/A
250.00000	1 of 1	232.211131	92.9	N/A	N/A
500.00000	1 of 1	429.521654	85.9	N/A	N/A
1000.00000	1 of 1	1201.587327	120.2	N/A	N/A
2500.00000	1 of 1	2312.794736	92.5	N/A	N/A
10000.00000	1 of 1	10601.454656	106.0	N/A	N/A
20000.00000	1 of 1	19467.240551	97.3	N/A	N/A





Sample calc 06GW0803 PFBS 35.26 ng/L

(9345.151850*1)/0.265/1000=35.2647 ng/L

Analyte: PFBS_1 (298.9 / 80.0)

Data File	18-0207A.wiff	Result Table	18-0207_Base
Acquisition Date	3/28/2018 7:36:08 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/28/2018 7:36:08 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/28/2018 7:46:56 PM	7067	1.44	7624	25.25000	23.133236	92
JU05	Standard	3/28/2018 7:57:43 PM	9164	1.45	5397	50.50000	55.886592	111
JU06	Standard	3/28/2018 8:08:31 PM	17380	1.44	7137	101.00000	87.163084	86
JU07	Standard	3/28/2018 8:19:19 PM	47000	1.44	8127	252.50000	229.381129	91
JU08	Standard	3/28/2018 8:30:06 PM	80600	1.44	6981	505.00000	474.110294	94
JU09	Standard	3/28/2018 8:40:53 PM	171900	1.44	6174	1010.00000	1166.027800	115
JU10	Standard	3/28/2018 8:51:40 PM	407900	1.44	6280	2525.00000	2741.992350	109
JU11	Standard	3/28/2018 9:02:26 PM	1893000	1.44	7335	10100.00000	10943.205444	108
JU12	Standard	3/28/2018 9:13:13 PM	5352000	1.43	11920	20200.00000	19048.350072	94
JP83 IB	Unknown	3/28/2018 9:23:58 PM	20480	1.45	7792	N/A	95.420106	N/A
JU13 ICC	Quality Control	3/28/2018 9:34:45 PM	158200	1.44	5272	1010.00000	1257.837991	125
JU38 Branch	Unknown	3/28/2018 9:45:33 PM	N/A	N/A	6302	N/A	N/A	N/A
MeOH	Unknown	3/28/2018 10:39:26 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ320PB-FS(3)	Unknown	3/28/2018 10:50:13 PM	N/A	N/A	9613	N/A	N/A	N/A
CQ321LCS-FS(3)	Unknown	3/28/2018 11:01:00 PM	581800	1.43	7825	N/A	3141.399150	N/A
J5387-FS(3)	Unknown	3/28/2018 11:11:47 PM	780700	1.45	3542	N/A	9345.151850	N/A
J5387MS-FS(3)	Unknown	3/28/2018 11:22:33 PM	1610000	1.42	3615	N/A	18905.421746	N/A
J5387MSD-FS(3)	Unknown	3/28/2018 11:33:19 PM	1707000	1.42	3960	N/A	18287.474855	N/A

QA/QC Summary Batch 18-0216

Project:	CTO-JM08 – Naval Construction Battalion Center (NCBC)
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	Water, QC
Data Set:	DP-18-0061
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

Sample Custody

Collection Date	Receipt Date	Temp (°C)
3/17/2018	3/20/2018	0.1
Corrective Actions	<ul style="list-style-type: none"> Chain of Custody forms were not signed. Client signed and send scanned copy to the laboratory. One sample did not indicate the correct number of samples received. Client corrected sample counts via email. 	
Sample Storage	The water samples were stored refrigerated until extraction.	
Related samples	The field samples associated with these field reagent blanks were extracted and reported with laboratory SDG 18-0207.	

METHOD SUMMARIES

Sample Preparation	Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% NH ₃ in methanol. Extracts were split and concentrated to dryness under nitrogen with a water bath set between 50 °C and 60 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.	
Prep comments	None.	
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations.	
Analysis Comments	Samples analyzed on Sciex 5500 LC-MS/MS. There are no MS/MSD samples associated with this batch.	
Holding Times	Extraction Date(s)	Analysis Date(s)
	3/29/2018	3/29/2018
Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.	
≤ ½ the LOQ	No exceedances noted.	
Samples >10x PB	No comments.	

QA/QC Summary
Batch 18-0216

Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.
50-150% of true value	No exceedances noted. No Comments.
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
+/- 30% of true value, $R^2 \geq 0.99$	No exceedances noted. No comments.
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
+/- 30% of true value	No exceedances noted. No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted. No comments.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
$\leq \frac{1}{2}$ the LOQ	No exceedances noted. No comments.



BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title: PFAS Analytical work	Data Set Number: DP-18-0061
Project Number: 100112541	Prep Batch Number: 18-0216
Entered By: Denise Schumitz	Entered On: 04/04/2018
Test Code (Matrix Type): Master_369(L)	

JU12 is not being used in the calibration curve for d3-MeFOSAA in the SIS method and NMeFOSAA in the BASE method. There is no impact on the data once this point is dropped from the curve.
DMS 4/4/2018

JU04 is not being used in the calibration curve for PFOS and PFBA in the Base method. There is no impact on the data once this point is dropped from the curve.
DMS 4/4/2018

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
DMS 4/4/2018

Task Leader Approval:

Supervisor Approval:

PM Approval:

Digitally signed by Jonathan

Thorn

Date: 2018.04.06 13:46:10

-04'00'

IS Area Report

Batch: 18-0216

Result Table: 18-0216

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
1	MeOH	Unknown	3/29/2018 19:35	13C2-PFOA	N/A	N/A	N/A	N/A
19	JU04	Standard	3/29/2018 19:46	13C2-PFOA	31730	16545	49635	Pass
37	JU05	Standard	3/29/2018 19:57	13C2-PFOA	33570	16545	49635	Pass
55	JU06	Standard	3/29/2018 20:08	13C2-PFOA	33090	16545	49635	Pass
73	JU07	Standard	3/29/2018 20:19	13C2-PFOA	27130	16545	49635	Pass
91	JU08	Standard	3/29/2018 20:29	13C2-PFOA	27340	16545	49635	Pass
109	JU09	Standard	3/29/2018 20:40	13C2-PFOA	30040	16545	49635	Pass
127	JU10	Standard	3/29/2018 20:51	13C2-PFOA	24150	16545	49635	Pass
145	JU11	Standard	3/29/2018 21:02	13C2-PFOA	24540	16545	49635	Pass
163	JU12	Standard	3/29/2018 21:12	13C2-PFOA	36740	16545	49635	Pass
181	JP83 IB	Quality Control	3/29/2018 21:23	13C2-PFOA	34260	16545	49635	Pass
199	JU13 ICC	Quality Control	3/29/2018 21:34	13C2-PFOA	32360	16545	49635	Pass
217	JU38 Branch	Quality Control	3/29/2018 21:45	13C2-PFOA	30010	16545	49635	Pass
253	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C2-PFOA	18070	16545	49635	Pass
271	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C2-PFOA	28230	16545	49635	Pass
289	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C2-PFOA	19720	16545	49635	Pass
307	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C2-PFOA	23890	16545	49635	Pass
325	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C2-PFOA	28630	16545	49635	Pass
343	JU09 CCV	Quality Control	3/29/2018 23:00	13C2-PFOA	28060	16545	49635	Pass
20	JU04	Standard	3/29/2018 19:46	13C4-PFOS	11010	5495	16485	Pass
38	JU05	Standard	3/29/2018 19:57	13C4-PFOS	10320	5495	16485	Pass
56	JU06	Standard	3/29/2018 20:08	13C4-PFOS	10990	5495	16485	Pass
74	JU07	Standard	3/29/2018 20:19	13C4-PFOS	8191	5495	16485	Pass
92	JU08	Standard	3/29/2018 20:29	13C4-PFOS	8594	5495	16485	Pass
110	JU09	Standard	3/29/2018 20:40	13C4-PFOS	10450	5495	16485	Pass
128	JU10	Standard	3/29/2018 20:51	13C4-PFOS	10140	5495	16485	Pass
146	JU11	Standard	3/29/2018 21:02	13C4-PFOS	9230	5495	16485	Pass
182	JP83 IB	Quality Control	3/29/2018 21:23	13C4-PFOS	10510	5495	16485	Pass
200	JU13 ICC	Quality Control	3/29/2018 21:34	13C4-PFOS	10710	5495	16485	Pass
218	JU38 Branch	Quality Control	3/29/2018 21:45	13C4-PFOS	10090	5495	16485	Pass
254	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C4-PFOS	5505	5495	16485	Pass
272	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C4-PFOS	9766	5495	16485	Pass
290	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C4-PFOS	6756	5495	16485	Pass
308	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C4-PFOS	8856	5495	16485	Pass
326	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C4-PFOS	8973	5495	16485	Pass
344	JU09 CCV	Quality Control	3/29/2018 23:00	13C4-PFOS	10100	5495	16485	Pass
21	JU04	Standard	3/29/2018 19:46	13C2-PFDA	42510	21000	63000	Pass
39	JU05	Standard	3/29/2018 19:57	13C2-PFDA	43880	21000	63000	Pass

IS Area Report

Batch: 18-0216

Result Table: 18-0216

Index	Sample Name	Sample Type	Acquisition Date & Time	Component Name	Area	Lower	Upper	Pass/Fail
57	JU06	Standard	3/29/2018 20:08	13C2-PFDA	42000	21000	63000	Pass
75	JU07	Standard	3/29/2018 20:19	13C2-PFDA	35150	21000	63000	Pass
93	JU08	Standard	3/29/2018 20:29	13C2-PFDA	36890	21000	63000	Pass
111	JU09	Standard	3/29/2018 20:40	13C2-PFDA	40570	21000	63000	Pass
129	JU10	Standard	3/29/2018 20:51	13C2-PFDA	37640	21000	63000	Pass
147	JU11	Standard	3/29/2018 21:02	13C2-PFDA	37280	21000	63000	Pass
165	JU12	Standard	3/29/2018 21:12	13C2-PFDA	52430	21000	63000	Pass
183	JP83 IB	Quality Control	3/29/2018 21:23	13C2-PFDA	45600	21000	63000	Pass
201	JU13 ICC	Quality Control	3/29/2018 21:34	13C2-PFDA	40740	21000	63000	Pass
219	JU38 Branch	Quality Control	3/29/2018 21:45	13C2-PFDA	39980	21000	63000	Pass
255	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C2-PFDA	27840	21000	63000	Pass
273	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C2-PFDA	39750	21000	63000	Pass
291	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C2-PFDA	30690	21000	63000	Pass
309	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C2-PFDA	34240	21000	63000	Pass
327	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C2-PFDA	39900	21000	63000	Pass
345	JU09 CCV	Quality Control	3/29/2018 23:00	13C2-PFDA	40700	21000	63000	Pass
35	JU04	Standard	3/29/2018 19:46	13C3-PFBA	27720	11490	34470	Pass
53	JU05	Standard	3/29/2018 19:57	13C3-PFBA	30010	11490	34470	Pass
71	JU06	Standard	3/29/2018 20:08	13C3-PFBA	22980	11490	34470	Pass
89	JU07	Standard	3/29/2018 20:19	13C3-PFBA	24680	11490	34470	Pass
107	JU08	Standard	3/29/2018 20:29	13C3-PFBA	22300	11490	34470	Pass
125	JU09	Standard	3/29/2018 20:40	13C3-PFBA	26380	11490	34470	Pass
143	JU10	Standard	3/29/2018 20:51	13C3-PFBA	24160	11490	34470	Pass
161	JU11	Standard	3/29/2018 21:02	13C3-PFBA	19020	11490	34470	Pass
179	JU12	Standard	3/29/2018 21:12	13C3-PFBA	27900	11490	34470	Pass
197	JP83 IB	Quality Control	3/29/2018 21:23	13C3-PFBA	29780	11490	34470	Pass
215	JU13 ICC	Quality Control	3/29/2018 21:34	13C3-PFBA	24700	11490	34470	Pass
233	JU38 Branch	Quality Control	3/29/2018 21:45	13C3-PFBA	24470	11490	34470	Pass
269	CQ350PB-FS(3)	Quality Control	3/29/2018 22:06	13C3-PFBA	21440	11490	34470	Pass
287	CQ351LCS-FS(3)	Quality Control	3/29/2018 22:17	13C3-PFBA	25920	11490	34470	Pass
305	J5386-FS(3)	Quality Control	3/29/2018 22:28	13C3-PFBA	18910	11490	34470	Pass
323	J5391-FS(3)	Quality Control	3/29/2018 22:39	13C3-PFBA	22930	11490	34470	Pass
341	J5393-FS(3)	Quality Control	3/29/2018 22:49	13C3-PFBA	24970	11490	34470	Pass
359	JU09 CCV	Quality Control	3/29/2018 23:00	13C3-PFBA	23160	11490	34470	Pass



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	JP83 IB		
Battelle ID	JP83 IB_03/29/2018		
Sample Type	IB		
Collection Date	NA		
Extraction Date	NA		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	NA		
Sample Size	NA		
Size Unit-Basis	NA		
Units	ng/L	LOD	LOQ
PFBA	0.40	0.50	5.00
PFHxA	0.80	0.50	5.00
PFHpA	0.89	0.50	5.00
PFOA	0.76	0.50	5.00
PFNA	0.72	1.00	5.00
PFDA	0.85	0.50	5.00
PFUnA	0.80	1.00	5.00
PFDoA	0.77	0.50	5.00
PFTTrDA	0.81	0.50	5.00
PFTeDA	0.96	1.00	5.00
NMeFOSAA	1.11	2.50	5.00
NEtFOSAA	1.36	1.00	5.00
PFBS	0.90	0.50	5.00
PFHxS	0.89	0.50	5.00
PFOS	0.88	0.50	5.00

ALL RESULTS < 1/2 LOQ

Surrogate Recoveries (%)

13C4-PFBA	97
13C5-PFHxA	94
13C4-PFHpA	100
13C8-PFOA	96
13C9-PFNA	96
13C6-PFDA	107
13C7-PFUnA	98
13C2-PFDoA	96
13C2-PFTeDA	95
d3-MeFOSAA	99
d5-EtFOSAA	110
13C3-PFBS	98
13C3-PFHxS	106
13C8-PFOS	105



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Procedural Blank		
Battelle ID	CQ350PB-FS		
Sample Type	PB		
Collection Date	03/29/2018		
Extraction Date	03/29/2018		
Analysis Date	03/29/2018		
Analytical Instrument	Sciex 5500 LC/MS/MS		
% Moisture	NA		
Matrix	WATER		
Sample Size	0.250		
Size Unit-Basis	L		
Units	ng/L	LOD	LOQ
PFBA	0.14 U	0.50	5.00
PFHxA	0.19 U	0.50	5.00
PFHpA	0.16 U	0.50	5.00
PFOA	0.35 J	0.50	5.00
PFNA	0.26 U	1.00	5.00
PFDA	0.16 U	0.50	5.00
PFUnA	0.29 U	1.00	5.00
PFDoA	0.18 U	0.50	5.00
PFTeDA	0.16 J	0.50	5.00
PFTeDA	0.25 U	1.00	5.00
NMeFOSAA	0.56 U	2.50	5.00
NEtFOSAA	0.49 U	1.00	5.00
PFBS	0.17 J	0.50	5.00
PFHxS	0.21 J	0.50	5.00
PFOS	0.33 J	0.50	5.00

ALL RESULTS < 1/3 LOQ

Surrogate Recoveries (%)

13C4-PFBA	76
13C5-PFHxA	105
13C4-PFHpA	101
13C8-PFOA	100
13C9-PFNA	105
13C6-PFDA	103
13C7-PFUnA	104
13C2-PFDoA	87
13C2-PFTeDA	57
d3-MeFOSAA	113
d5-EtFOSAA	102
13C3-PFBS	103
13C3-PFHxS	89
13C8-PFOS	111



Project Client: Tetra Tech
 Project Name: PFAS Analytical work
 Project Number: 100112541

Client ID	Laboratory Control Sample			
Battelle ID	CQ351LCS-FS			
Sample Type	LCS			
Collection Date	03/29/2018			
Extraction Date	03/29/2018			
Analysis Date	03/29/2018			
Analytical Instrument	Sciex 5500 LC/MS/MS			
% Moisture	NA			
Matrix	WATER			
Sample Size	0.250			
Size Unit-Basis	L			
Units	ng/L	Target	Recovery	Qual
PFBA	9.64	10.00	96	
PFHxA	9.38	10.10	93	
PFHpA	8.11	10.00	81	
PFOA	9.55	10.00	96	
PFNA	9.65	10.00	97	
PFDA	9.87	10.00	99	
PFUnA	9.50	10.00	95	
PFDoA	10.99	10.00	110	
PFTTrDA	12.64	10.00	126	
PFTeDA	11.29	10.00	113	
NMeFOSAA	8.40	10.00	84	
NEtFOSAA	11.85	10.00	119	
PFBS	11.93	10.10	118	
PFHxS	8.79	10.10	87	
PFOS	8.83	10.00	88	

70-130% limits

Surrogate Recoveries (%)

13C4-PFBA	92
13C5-PFHxA	100
13C4-PFHpA	93
13C8-PFOA	100
13C9-PFNA	94
13C6-PFDA	96
13C7-PFUnA	104
13C2-PFDoA	90
13C2-PFTeDA	60
d3-MeFOSAA	98
d5-EtFOSAA	79
13C3-PFBS	80
13C3-PFHxS	99
13C8-PFOS	94

Analyte: PFBS_1 (298.9 / 80.0)

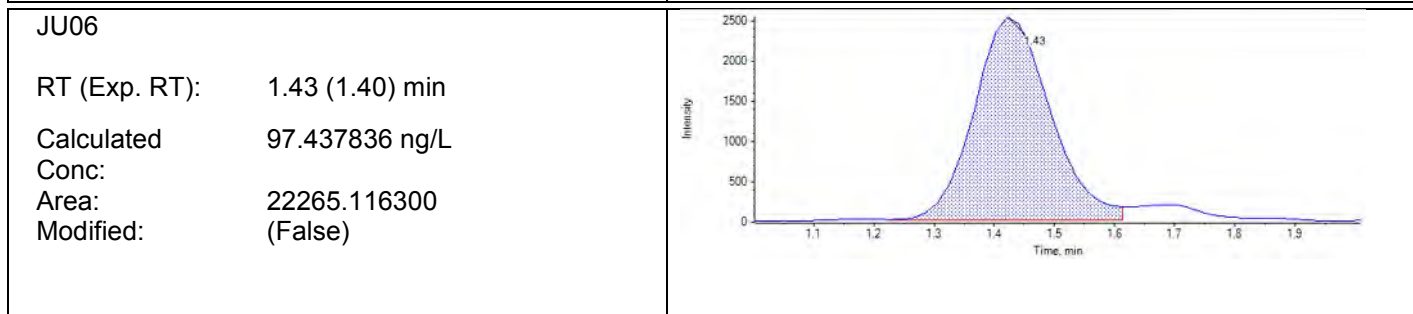
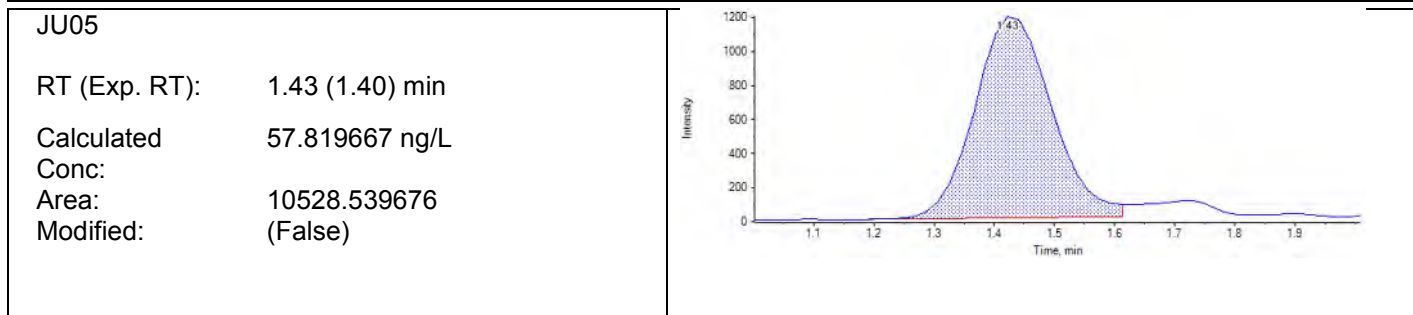
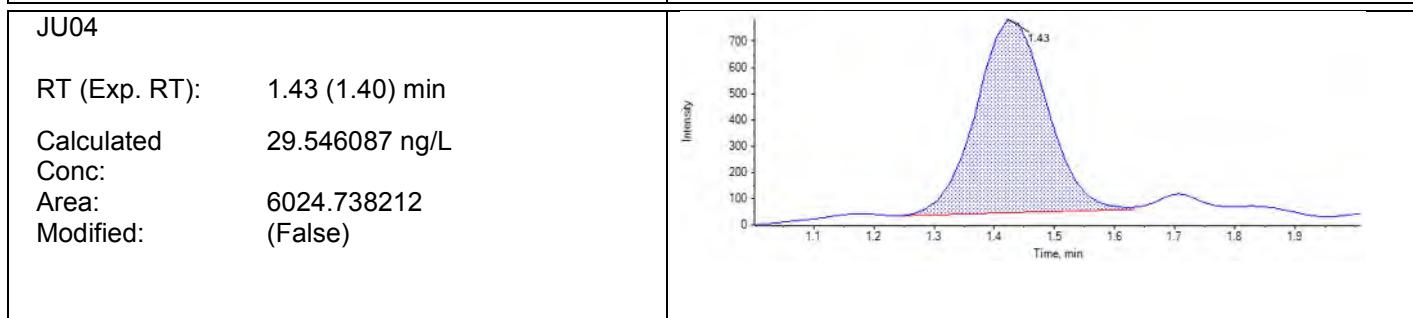
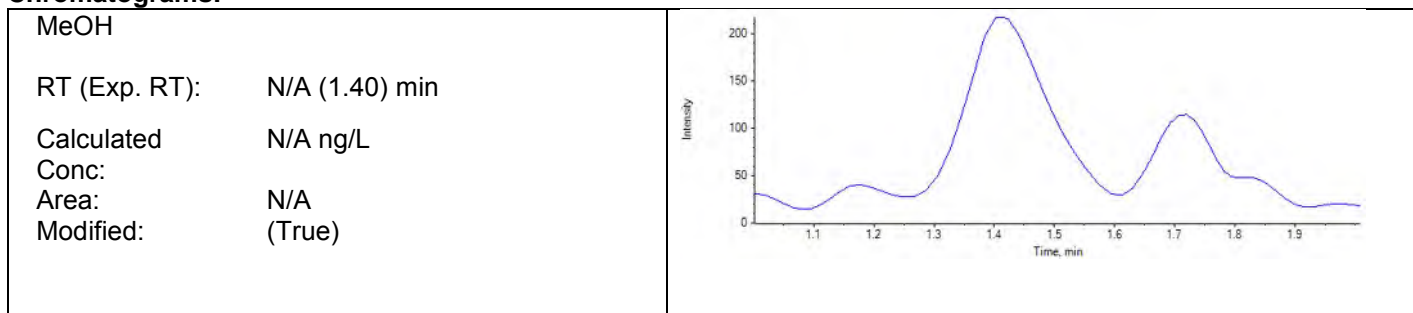
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	6025	1.43	7904	25.25000	29.546087	117
JU05	Standard	3/29/2018 7:57:30 PM	10529	1.43	7045	50.50000	57.819667	114
JU06	Standard	3/29/2018 8:08:16 PM	22265	1.43	8833	101.00000	97.437836	96
JU07	Standard	3/29/2018 8:19:03 PM	42238	1.43	6412	252.50000	254.440891	101
JU08	Standard	3/29/2018 8:29:49 PM	78021	1.43	6875	505.00000	438.237188	87
JU09	Standard	3/29/2018 8:40:36 PM	203152	1.43	8218	1010.00000	954.534400	95
JU10	Standard	3/29/2018 8:51:22 PM	454931	1.43	8008	2525.00000	2193.471695	87
JU11	Standard	3/29/2018 9:02:09 PM	1934440	1.43	7264	10100.00000	10280.713973	102
JU12	Standard	3/29/2018 9:12:55 PM	5692516	1.42	10740	20200.00000	20463.048262	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	19188	1.44	8236	N/A	90.064380	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	200186	1.42	7922	1010.00000	975.646795	97
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	4144	1.44	6641	N/A	24.208354	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	4880	1.44	4528	N/A	41.732724	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	480519	1.43	6222	N/A	2981.803725	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3401	1.44	5265	N/A	25.059831	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	946	1.45	5442	N/A	6.834147	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	1080	1.45	7973	N/A	5.348253	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	202415	1.42	7535	1010.00000	1037.184196	103

Chromatograms:



Analyte: PFBS_2 (298.9 / 99.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2139	1.44	7904	25.25000	29.342453	116
JU05	Standard	3/29/2018 7:57:30 PM	3843	1.44	7045	50.50000	62.969644	125
JU06	Standard	3/29/2018 8:08:16 PM	6915	1.42	8833	101.00000	91.992005	91
JU07	Standard	3/29/2018 8:19:03 PM	13136	1.43	6412	252.50000	246.764500	98
JU08	Standard	3/29/2018 8:29:49 PM	25769	1.43	6875	505.00000	454.561605	90
JU09	Standard	3/29/2018 8:40:36 PM	61521	1.42	8218	1010.00000	911.657403	90
JU10	Standard	3/29/2018 8:51:22 PM	143721	1.43	8008	2525.00000	2190.868679	87
JU11	Standard	3/29/2018 9:02:09 PM	610663	1.43	7264	10100.00000	10274.963832	102
JU12	Standard	3/29/2018 9:12:55 PM	1801465	1.42	10740	20200.00000	20506.129879	102
JP83 IB	Unknown	3/29/2018 9:23:42 PM	6642	1.44	8236	N/A	94.877131	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	62891	1.42	7922	1010.00000	966.910914	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6641	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1384	1.45	4528	N/A	33.626595	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	148316	1.42	6222	N/A	2911.084354	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1224	1.44	5265	N/A	24.677200	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	5442	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	7973	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	61579	1.42	7535	1010.00000	995.495560	99

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 29.342453 ng/L</p> <p>Area: 2138.678469</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.44 (1.40) min</p> <p>Calculated Conc: 62.969644 ng/L</p> <p>Area: 3843.418254</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.42 (1.40) min</p> <p>Calculated Conc: 91.992005 ng/L</p> <p>Area: 6915.463749</p> <p>Modified: (False)</p>	

Analyte: PFHxA_1 (313.0 / 269.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	7895	1.71	27450	25.25000	32.108208	127
JU05	Standard	3/29/2018 7:57:30 PM	13526	1.70	26160	50.50000	56.216074	111
JU06	Standard	3/29/2018 8:08:16 PM	25113	1.70	26630	101.00000	100.928808	100
JU07	Standard	3/29/2018 8:19:03 PM	44538	1.70	21140	252.50000	223.227908	88
JU08	Standard	3/29/2018 8:29:49 PM	92249	1.71	21630	505.00000	449.860662	89
JU09	Standard	3/29/2018 8:40:36 PM	234947	1.70	27690	1010.00000	893.148377	88
JU10	Standard	3/29/2018 8:51:22 PM	537670	1.70	23960	2525.00000	2358.310431	93
JU11	Standard	3/29/2018 9:02:09 PM	2278502	1.70	23460	10100.00000	10203.682302	101
JU12	Standard	3/29/2018 9:12:55 PM	6522596	1.70	33500	20200.00000	20451.767229	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	20779	1.72	28010	N/A	79.807853	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	224549	1.70	26220	1010.00000	901.317127	89
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	23770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	3203	1.72	16390	N/A	22.424285	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	546764	1.70	24510	N/A	2344.939456	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	4030	1.72	17230	N/A	26.462506	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19720	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22230	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	212499	1.70	24340	1010.00000	918.940241	91

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (1.60) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.71 (1.60) min</p> <p>Calculated Conc: 32.108208 ng/L</p> <p>Area: 7895.104475</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 56.216074 ng/L</p> <p>Area: 13526.462512</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.70 (1.60) min</p> <p>Calculated Conc: 100.928808 ng/L</p> <p>Area: 25113.310103</p> <p>Modified: (True)</p>	

Analyte: PFHxA_2 (313.0 / 119.0)

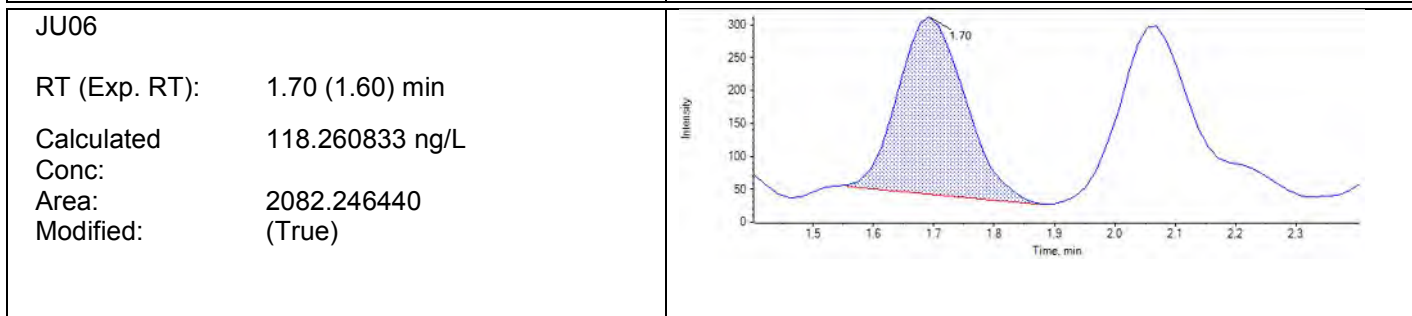
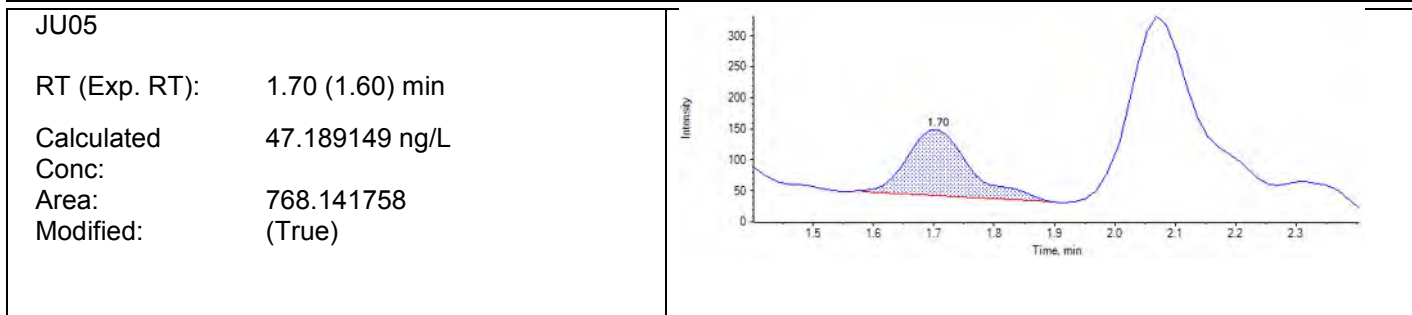
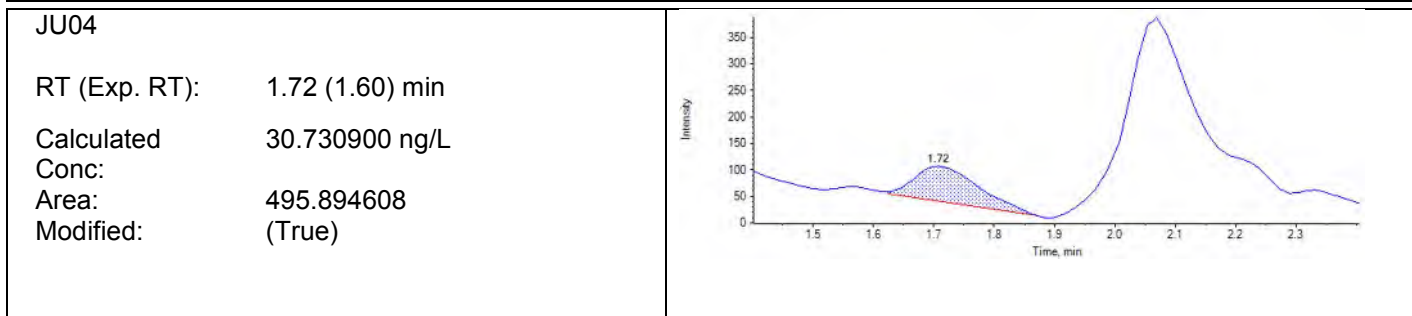
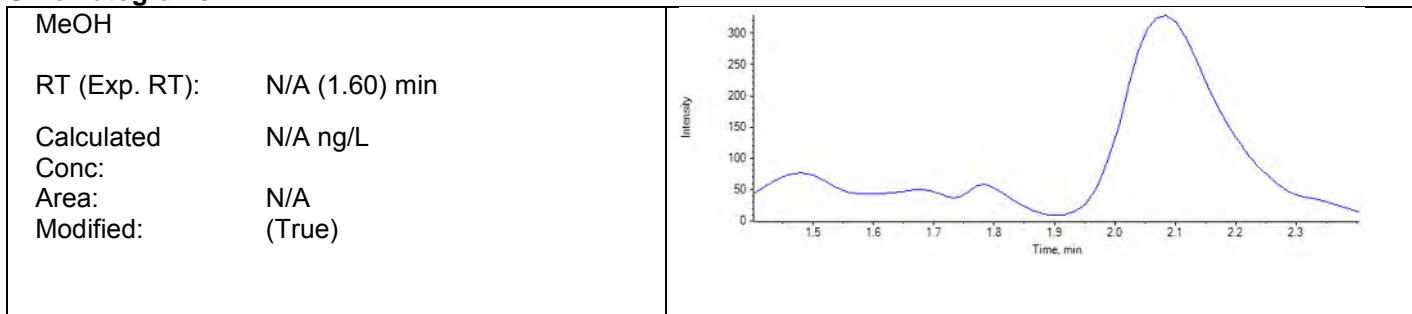
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	496	1.72	27450	25.25000	30.730900	122
JU05	Standard	3/29/2018 7:57:30 PM	768	1.70	26160	50.50000	47.189149	93
JU06	Standard	3/29/2018 8:08:16 PM	2082	1.70	26630	101.00000	118.260833	117
JU07	Standard	3/29/2018 8:19:03 PM	3011	1.70	21140	252.50000	211.893503	84
JU08	Standard	3/29/2018 8:29:49 PM	7894	1.70	21630	505.00000	535.846621	106
JU09	Standard	3/29/2018 8:40:36 PM	16707	1.70	27690	1010.00000	883.060455	87
JU10	Standard	3/29/2018 8:51:22 PM	36180	1.70	23960	2525.00000	2202.720742	87
JU11	Standard	3/29/2018 9:02:09 PM	165529	1.70	23460	10100.00000	10279.586155	102
JU12	Standard	3/29/2018 9:12:55 PM	470601	1.70	33500	20200.00000	20459.961643	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1383	1.71	28010	N/A	76.303625	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	14404	1.70	26220	1010.00000	804.298604	80
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	23770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	16390	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	39138	1.70	24510	N/A	2329.662383	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	508	1.71	17230	N/A	47.311357	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19720	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22230	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	14059	1.69	24340	1010.00000	845.603299	84

Chromatograms:



Analyte: PFHpA_1 (363.0 / 319.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	6512	2.07	34260	25.00000	32.197633	129
JU05	Standard	3/29/2018 7:57:30 PM	10133	2.07	29930	50.00000	54.253804	109
JU06	Standard	3/29/2018 8:08:16 PM	22046	2.07	33410	100.00000	102.007600	102
JU07	Standard	3/29/2018 8:19:03 PM	40054	2.07	27420	250.00000	220.992703	88
JU08	Standard	3/29/2018 8:29:49 PM	78974	2.07	28990	500.00000	408.761957	82
JU09	Standard	3/29/2018 8:40:36 PM	201201	2.06	30930	1000.00000	970.744144	97
JU10	Standard	3/29/2018 8:51:22 PM	424461	2.07	27530	2500.00000	2295.050119	92
JU11	Standard	3/29/2018 9:02:09 PM	1675847	2.07	24930	10000.00000	9992.681399	100
JU12	Standard	3/29/2018 9:12:55 PM	4671074	2.07	34120	20000.00000	20348.310641	102
JP83 IB	Unknown	3/29/2018 9:23:42 PM	19285	2.07	33660	N/A	89.079677	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	182897	2.06	31220	1000.00000	874.432498	87
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	30930	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	18340	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	389608	2.07	28610	N/A	2027.533978	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	21790	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	22760	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	27670	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	190766	2.06	30270	1000.00000	940.493946	94

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 32.197633 ng/L</p> <p>Area: 6511.891065</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 54.253804 ng/L</p> <p>Area: 10132.699481</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 102.007600 ng/L</p> <p>Area: 22045.782744</p> <p>Modified: (True)</p>	

Analyte: PFHpA_2 (363.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	280	2.08	34260	25.00000	105.182479	421
JU05	Standard	3/29/2018 7:57:30 PM	184	2.09	29930	50.00000	91.139553	182
JU06	Standard	3/29/2018 8:08:16 PM	348	2.07	33410	100.00000	120.742095	121
JU07	Standard	3/29/2018 8:19:03 PM	693	2.06	27420	250.00000	223.686864	89
JU08	Standard	3/29/2018 8:29:49 PM	1711	2.08	28990	500.00000	457.567789	92
JU09	Standard	3/29/2018 8:40:36 PM	3940	2.07	30930	1000.00000	931.504230	93
JU10	Standard	3/29/2018 8:51:22 PM	9957	2.06	27530	2500.00000	2555.199660	102
JU11	Standard	3/29/2018 9:02:09 PM	37674	2.07	24930	10000.00000	10520.939088	105
JU12	Standard	3/29/2018 9:12:55 PM	95960	2.06	34120	20000.00000	19540.360274	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	391	2.05	33660	N/A	129.044627	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	3336	2.07	31220	1000.00000	788.959138	79
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	30930	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	18340	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	7786	2.06	28610	N/A	1934.579838	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	21790	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	22760	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	27670	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	4899	2.05	30270	1000.00000	1170.337127	117

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 105.182479 ng/L</p> <p>Area: 279.763256</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 91.139553 ng/L</p> <p>Area: 183.794919</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.07 (2.00) min</p> <p>Calculated Conc: 120.742095 ng/L</p> <p>Area: 347.846849</p> <p>Modified: (True)</p>	

Analyte: PFHxS_1 (399.0 / 80.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	10289	2.09	8341	25.25000	26.892868	107
JU05	Standard	3/29/2018 7:57:30 PM	16849	2.09	8473	50.50000	47.936865	95
JU06	Standard	3/29/2018 8:08:16 PM	30864	2.09	7439	101.00000	108.161715	107
JU07	Standard	3/29/2018 8:19:03 PM	55147	2.09	5304	252.50000	282.324036	112
JU08	Standard	3/29/2018 8:29:49 PM	103545	2.09	6335	505.00000	448.094441	89
JU09	Standard	3/29/2018 8:40:36 PM	253074	2.09	7359	1010.00000	951.068384	94
JU10	Standard	3/29/2018 8:51:22 PM	556477	2.09	6704	2525.00000	2306.288510	91
JU11	Standard	3/29/2018 9:02:09 PM	2082967	2.09	5324	10100.00000	10898.757134	108
JU12	Standard	3/29/2018 9:12:55 PM	5587757	2.08	7904	20200.00000	19699.726048	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	27242	2.09	7891	N/A	88.745330	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	262665	2.08	7291	1010.00000	996.689472	99
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	1004751	2.08	7052	N/A	3964.190498	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	7505	2.09	3479	N/A	52.633963	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	538633	2.08	6813	N/A	2196.291678	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3490	2.10	4848	N/A	12.569214	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	1846	2.09	4292	N/A	4.496053	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	949	2.08	6607	N/A	< 0	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	250240	2.08	8306	1010.00000	832.278274	82

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 26.892868 ng/L</p> <p>Area: 10289.376494</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 47.936865 ng/L</p> <p>Area: 16848.848272</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 108.161715 ng/L</p> <p>Area: 30863.790160</p> <p>Modified: (False)</p>	

Analyte: PFHxS_2 (399.0 / 99.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2431	2.09	8341	25.25000	22.397565	89
JU05	Standard	3/29/2018 7:57:30 PM	5645	2.09	8473	50.50000	58.270442	115
JU06	Standard	3/29/2018 8:08:16 PM	8343	2.08	7439	101.00000	101.841220	101
JU07	Standard	3/29/2018 8:19:03 PM	15216	2.09	5304	252.50000	269.047901	107
JU08	Standard	3/29/2018 8:29:49 PM	31216	2.09	6335	505.00000	466.069235	92
JU09	Standard	3/29/2018 8:40:36 PM	76869	2.09	7359	1010.00000	994.137369	98
JU10	Standard	3/29/2018 8:51:22 PM	165392	2.09	6704	2525.00000	2355.552213	93
JU11	Standard	3/29/2018 9:02:09 PM	601632	2.09	5324	10100.00000	10809.826960	107
JU12	Standard	3/29/2018 9:12:55 PM	1626709	2.08	7904	20200.00000	19692.107095	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	7644	2.10	7891	N/A	87.226019	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	75671	2.08	7291	1010.00000	987.748438	98
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	304155	2.08	7052	N/A	4122.390745	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	2304	2.09	3479	N/A	57.885095	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	154945	2.08	6813	N/A	2171.066329	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1453	2.09	4848	N/A	23.194400	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	4292	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	6607	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	73068	2.08	8306	1010.00000	836.382302	83

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 22.397565 ng/L</p> <p>Area: 2430.759420</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.09 (2.00) min</p> <p>Calculated Conc: 58.270442 ng/L</p> <p>Area: 5645.178217</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.08 (2.00) min</p> <p>Calculated Conc: 101.841220 ng/L</p> <p>Area: 8342.687371</p> <p>Modified: (False)</p>	

Analyte: PFOA_1 (413.0 / 369.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11269	2.44	34260	25.00000	30.124194	121
JU05	Standard	3/29/2018 7:57:30 PM	17441	2.45	29930	50.00000	59.354635	119
JU06	Standard	3/29/2018 8:08:16 PM	31361	2.44	33410	100.00000	100.374593	100
JU07	Standard	3/29/2018 8:19:03 PM	52826	2.45	27420	250.00000	214.159880	86
JU08	Standard	3/29/2018 8:29:49 PM	106316	2.45	28990	500.00000	414.748101	83
JU09	Standard	3/29/2018 8:40:36 PM	255833	2.44	30930	1000.00000	945.329057	95
JU10	Standard	3/29/2018 8:51:22 PM	564410	2.44	27530	2500.00000	2354.234208	94
JU11	Standard	3/29/2018 9:02:09 PM	2233564	2.44	24930	10000.00000	10314.027698	103
JU12	Standard	3/29/2018 9:12:55 PM	5922851	2.44	34120	20000.00000	19992.647633	100
JP83 IB	Unknown	3/29/2018 9:23:42 PM	24517	2.45	33660	N/A	76.133459	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	254832	2.43	31220	1000.00000	932.574401	93
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	2298350	2.40	30930	N/A	8553.523431	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	15121	2.44	18340	N/A	87.242762	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	594610	2.44	28610	N/A	2386.681902	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	10336	2.44	21790	N/A	46.882227	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	6836	2.44	22760	N/A	26.831506	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	6841	2.43	27670	N/A	20.708012	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	254724	2.43	30270	1000.00000	961.795217	96

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 30.124194 ng/L</p> <p>Area: 11268.810492</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 59.354635 ng/L</p> <p>Area: 17440.536342</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 100.374593 ng/L</p> <p>Area: 31360.938790</p> <p>Modified: (False)</p>	

Analyte: PFOA_2 (413.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	454	2.42	34260	25.00000	45.005182	180
JU05	Standard	3/29/2018 7:57:30 PM	1341	2.44	29930	50.00000	97.833645	196
JU06	Standard	3/29/2018 8:08:16 PM	2047	2.45	33410	100.00000	125.427924	125
JU07	Standard	3/29/2018 8:19:03 PM	3697	2.44	27420	250.00000	248.569421	99
JU08	Standard	3/29/2018 8:29:49 PM	6498	2.45	28990	500.00000	398.190136	80
JU09	Standard	3/29/2018 8:40:36 PM	17809	2.44	30930	1000.00000	987.151776	99
JU10	Standard	3/29/2018 8:51:22 PM	39164	2.44	27530	2500.00000	2404.994229	96
JU11	Standard	3/29/2018 9:02:09 PM	147541	2.44	24930	10000.00000	9932.600203	99
JU12	Standard	3/29/2018 9:12:55 PM	412193	2.44	34120	20000.00000	20253.066310	101
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1593	2.44	33660	N/A	102.060306	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	16067	2.44	31220	1000.00000	884.563132	88
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	213474	2.39	30930	N/A	11580.232078	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	978	2.41	18340	N/A	112.113221	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	40617	2.43	28610	N/A	2400.104014	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	712	2.43	21790	N/A	77.530960	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	534	2.42	22760	N/A	62.134170	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	825	2.37	27670	N/A	72.770710	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	17696	2.43	30270	1000.00000	1001.828070	100

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.42 (2.40) min</p> <p>Calculated Conc: 45.005182 ng/L</p> <p>Area: 453.524244</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.44 (2.40) min</p> <p>Calculated Conc: 97.833645 ng/L</p> <p>Area: 1340.603758</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.45 (2.40) min</p> <p>Calculated Conc: 125.427924 ng/L</p> <p>Area: 2046.843247</p> <p>Modified: (True)</p>	

Analyte: PFNA_1 (463.0 / 419.0)

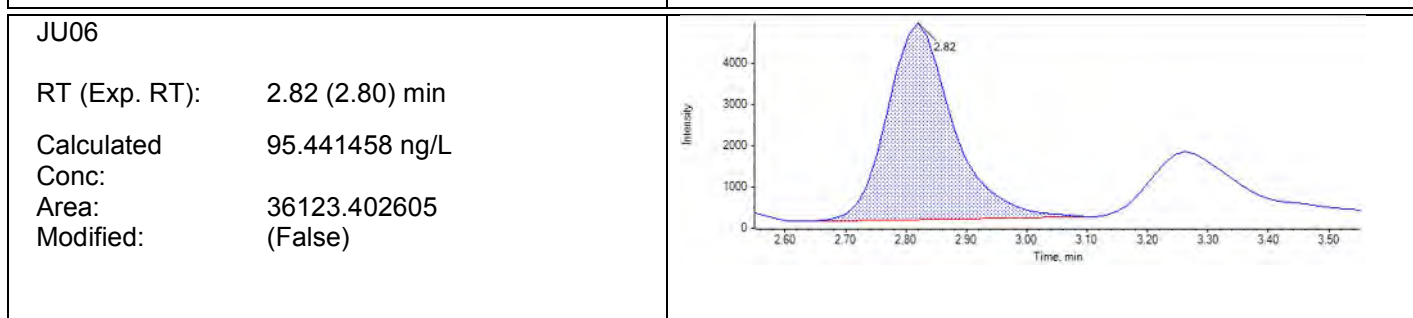
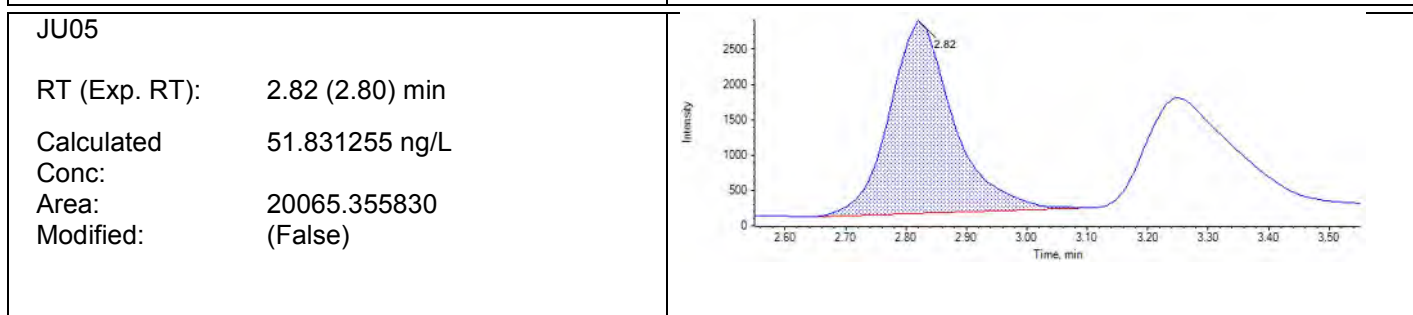
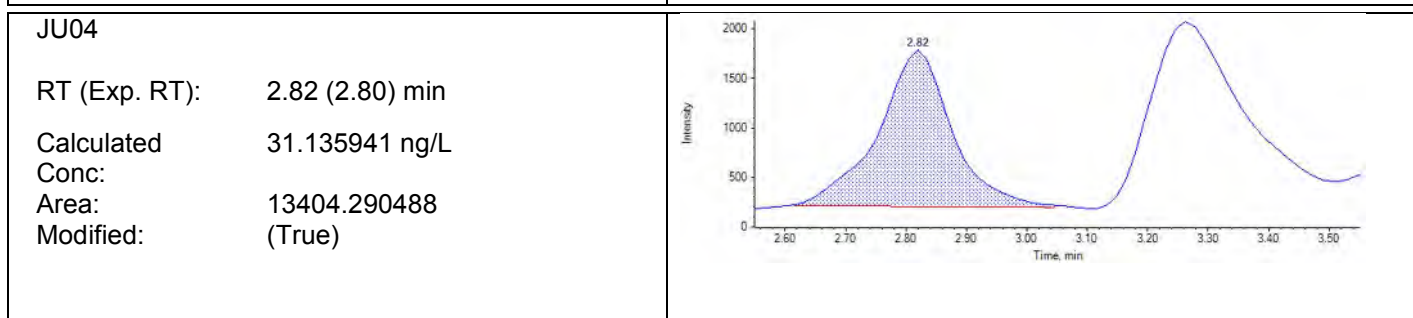
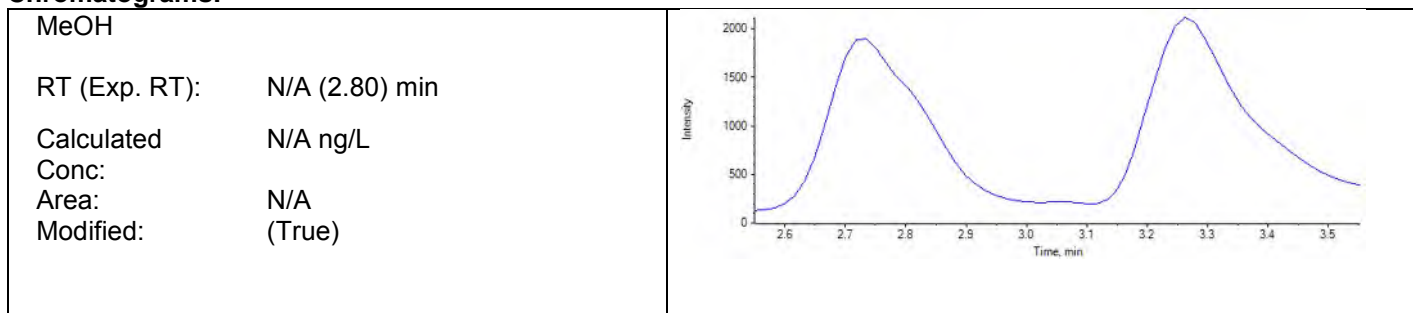
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	13404	2.82	40780	25.00000	31.135941	125
JU05	Standard	3/29/2018 7:57:30 PM	20065	2.82	39140	50.00000	51.831255	104
JU06	Standard	3/29/2018 8:08:16 PM	36123	2.82	40120	100.00000	95.441458	95
JU07	Standard	3/29/2018 8:19:03 PM	71266	2.82	31720	250.00000	246.912526	99
JU08	Standard	3/29/2018 8:29:49 PM	139918	2.83	33490	500.00000	464.101080	93
JU09	Standard	3/29/2018 8:40:36 PM	317486	2.82	41520	1000.00000	854.249474	85
JU10	Standard	3/29/2018 8:51:22 PM	684886	2.82	32630	2500.00000	2355.097628	94
JU11	Standard	3/29/2018 9:02:09 PM	2649099	2.82	27830	10000.00000	10701.407079	107
JU12	Standard	3/29/2018 9:12:55 PM	6858378	2.82	39300	20000.00000	19624.823558	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	27980	2.82	40380	N/A	72.109345	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	326340	2.81	35560	1000.00000	1026.499310	103
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	35160	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	9869	2.80	23280	N/A	41.839760	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	696895	2.82	32430	N/A	2411.786695	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	6778	2.81	27270	N/A	22.123256	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2541	2.81	26530	N/A	4.933309	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	2532	2.82	35660	N/A	2.148481	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	337389	2.81	37150	1000.00000	1015.716115	102

Chromatograms:



Analyte: PFNA_2 (463.0 / 219.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	3037	2.83	40780	25.00000	30.853910	123
JU05	Standard	3/29/2018 7:57:30 PM	5304	2.83	39140	50.00000	54.312522	109
JU06	Standard	3/29/2018 8:08:16 PM	9752	2.82	40120	100.00000	95.663390	96
JU07	Standard	3/29/2018 8:19:03 PM	19063	2.83	31720	250.00000	233.271399	93
JU08	Standard	3/29/2018 8:29:49 PM	39766	2.82	33490	500.00000	458.661296	92
JU09	Standard	3/29/2018 8:40:36 PM	93522	2.82	41520	1000.00000	868.059048	87
JU10	Standard	3/29/2018 8:51:22 PM	203616	2.82	32630	2500.00000	2400.942236	96
JU11	Standard	3/29/2018 9:02:09 PM	767174	2.82	27830	10000.00000	10599.066368	106
JU12	Standard	3/29/2018 9:12:55 PM	2012109	2.82	39300	20000.00000	19684.169831	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	10662	2.82	40380	N/A	103.724868	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	92511	2.82	35560	1000.00000	1002.330252	100
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	35160	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1105	2.82	23280	N/A	20.459240	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	213226	2.81	32430	N/A	2530.146254	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1914	2.82	27270	N/A	29.208413	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	26530	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35660	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	98637	2.81	37150	1000.00000	1022.864687	102

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 1000) and time in minutes on the x-axis (2.6 to 3.5). A single peak is visible at 2.83 minutes with an intensity of approximately 600.</p>
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 30.853910 ng/L</p> <p>Area: 3037.415374</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 500) and time in minutes on the x-axis (2.6 to 3.5). A peak is visible at 2.83 minutes with an intensity of approximately 500.</p>
<p>JU05</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 54.312522 ng/L</p> <p>Area: 5303.505789</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 800) and time in minutes on the x-axis (2.6 to 3.5). A peak is visible at 2.83 minutes with an intensity of approximately 800.</p>
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 95.663390 ng/L</p> <p>Area: 9752.282453</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 1200) and time in minutes on the x-axis (2.6 to 3.5). A peak is visible at 2.82 minutes with an intensity of approximately 1200.</p>

Analyte: PFOS_1 (499.0 / 80.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	17069	2.79	10230	25.00000	42.767875	171
JU05	Standard	3/29/2018 7:57:30 PM	27709	2.81	10940	50.00000	61.259255	123
JU06	Standard	3/29/2018 8:08:16 PM	47453	2.82	10200	100.00000	106.671885	107
JU07	Standard	3/29/2018 8:19:03 PM	88716	2.82	6608	250.00000	294.562971	118
JU08	Standard	3/29/2018 8:29:49 PM	160254	2.82	9368	500.00000	373.378352	75
JU09	Standard	3/29/2018 8:40:36 PM	390198	2.82	8784	1000.00000	958.421303	96
JU10	Standard	3/29/2018 8:51:22 PM	876163	2.82	9198	2500.00000	2047.108968	82
JU11	Standard	3/29/2018 9:02:09 PM	3228594	2.81	7240	10000.00000	9557.854024	96
JU12	Standard	3/29/2018 9:12:55 PM	8322430	2.81	8490	20000.00000	21000.743243	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	38147	2.82	10080	N/A	88.109104	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	388817	2.81	9028	1000.00000	929.355680	93
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	6222940	2.72	8506	N/A	15675.341046	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	19536	2.76	5541	N/A	82.538068	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	859400	2.81	8368	N/A	2206.585783	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	7398	2.79	7093	N/A	29.362982	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	3567	2.78	6436	N/A	18.897348	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	2714	2.81	9315	N/A	13.266366	N/A

Not being used in this calibration
 DMS 4/6/18

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	384072	2.80	9371	1000.00000	884.740916	88

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.79 (2.80) min</p> <p>Calculated Conc: 42.767875 ng/L</p> <p>Area: 17068.626808</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.81 (2.80) min</p> <p>Calculated Conc: 61.259255 ng/L</p> <p>Area: 27709.012311</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 106.671885 ng/L</p> <p>Area: 47452.705481</p> <p>Modified: (False)</p>	

Analyte: PFOS_2 (499.0 / 99.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2910	2.83	10230	25.00000	63.275250	253
JU05	Standard	3/29/2018 7:57:30 PM	5074	2.82	10940	50.00000	84.436461	169
JU06	Standard	3/29/2018 8:08:16 PM	7588	2.83	10200	100.00000	117.551175	118
JU07	Standard	3/29/2018 8:19:03 PM	14895	2.82	6608	250.00000	295.943528	118
JU08	Standard	3/29/2018 8:29:49 PM	32306	2.82	9368	500.00000	437.015734	87
JU09	Standard	3/29/2018 8:40:36 PM	69047	2.82	8784	1000.00000	958.233277	96
JU10	Standard	3/29/2018 8:51:22 PM	154637	2.82	9198	2500.00000	2015.638374	81
JU11	Standard	3/29/2018 9:02:09 PM	581538	2.82	7240	10000.00000	9518.262901	95
JU12	Standard	3/29/2018 9:12:55 PM	1507723	2.82	8490	20000.00000	21007.355010	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	7259	2.82	10080	N/A	114.767910	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	73269	2.81	9028	1000.00000	988.307155	99
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	788716	2.75	8506	N/A	10982.939075	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	3003	2.79	5541	N/A	93.679267	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	160894	2.81	8368	N/A	2300.975770	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1166	2.80	7093	N/A	49.081805	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	6436	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	9315	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	70741	2.81	9371	1000.00000	921.335822	92

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (2.80) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 63.275250 ng/L</p> <p>Area: 2910.397605</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 2.82 (2.80) min</p> <p>Calculated Conc: 84.436461 ng/L</p> <p>Area: 5073.962457</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 2.83 (2.80) min</p> <p>Calculated Conc: 117.551175 ng/L</p> <p>Area: 7588.339269</p> <p>Modified: (False)</p>	

Analyte: PFDA_1 (513.0 / 469.0)

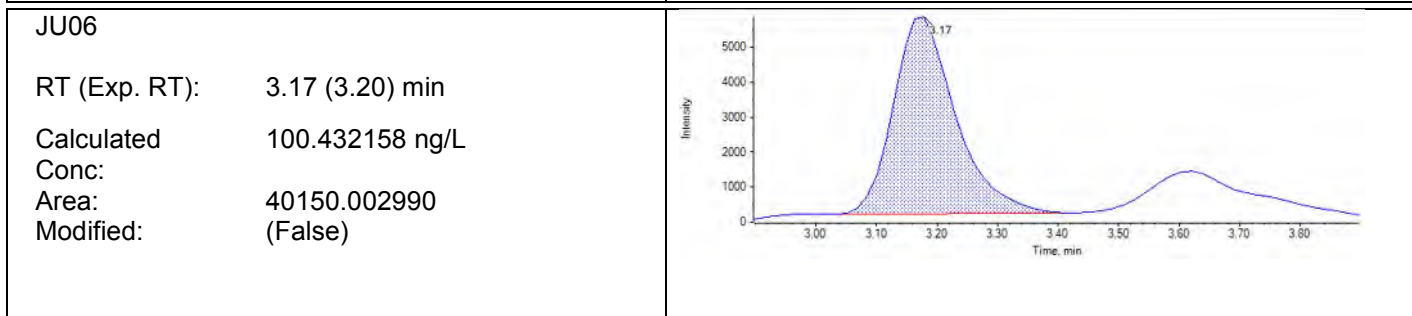
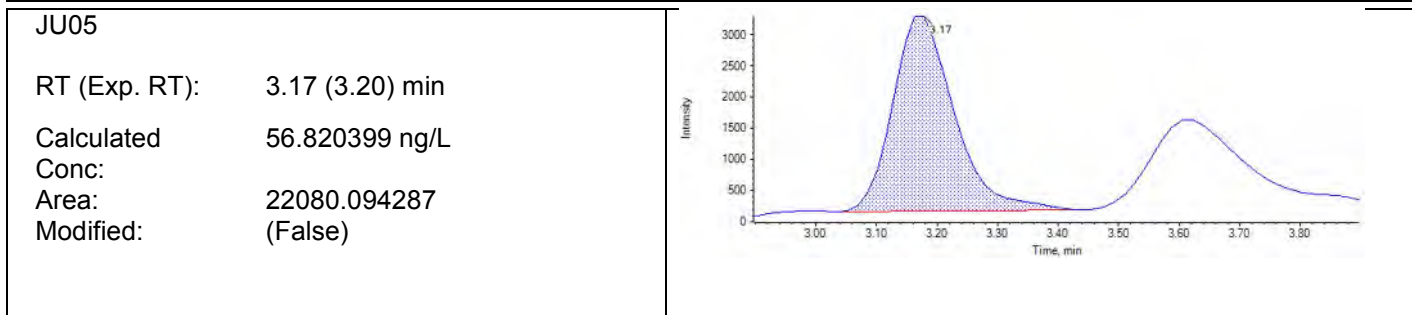
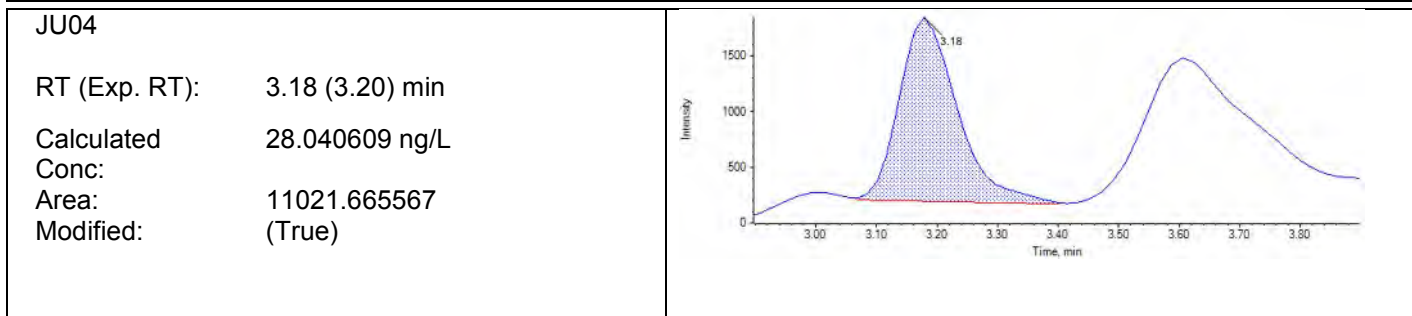
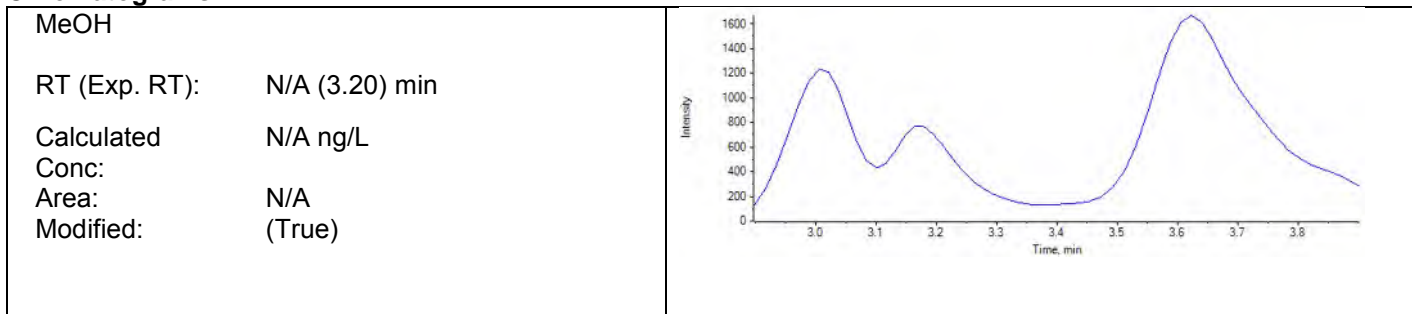
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11022	3.18	43400	25.00000	28.040609	112
JU05	Standard	3/29/2018 7:57:30 PM	22080	3.17	41780	50.00000	56.820399	114
JU06	Standard	3/29/2018 8:08:16 PM	40150	3.17	42500	100.00000	100.432158	100
JU07	Standard	3/29/2018 8:19:03 PM	73789	3.17	32880	250.00000	236.632413	95
JU08	Standard	3/29/2018 8:29:49 PM	150245	3.17	35890	500.00000	440.166212	88
JU09	Standard	3/29/2018 8:40:36 PM	354098	3.17	39130	1000.00000	949.920008	95
JU10	Standard	3/29/2018 8:51:22 PM	803678	3.17	37180	2500.00000	2267.160024	91
JU11	Standard	3/29/2018 9:02:09 PM	3075773	3.17	30040	10000.00000	10734.171405	107
JU12	Standard	3/29/2018 9:12:55 PM	7708727	3.17	41200	20000.00000	19611.656773	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	36346	3.17	45770	N/A	84.662299	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	357714	3.16	44230	1000.00000	849.143649	85
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	41500	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	5219	3.17	26830	N/A	21.809575	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	845406	3.16	35950	N/A	2466.252781	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	5616	3.16	26970	N/A	23.246970	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	30370	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	37520	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	358243	3.16	42290	1000.00000	889.404343	89

Chromatograms:



Analyte: PFDA_2 (513.0 / 219.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	417	3.17	43400	25.00000	29.579582	118
JU05	Standard	3/29/2018 7:57:30 PM	767	3.18	41780	50.00000	51.481084	103
JU06	Standard	3/29/2018 8:08:16 PM	1933	3.17	42500	100.00000	119.405501	119
JU07	Standard	3/29/2018 8:19:03 PM	2961	3.18	32880	250.00000	230.976769	92
JU08	Standard	3/29/2018 8:29:49 PM	5556	3.17	35890	500.00000	393.053118	79
JU09	Standard	3/29/2018 8:40:36 PM	13892	3.17	39130	1000.00000	894.428545	89
JU10	Standard	3/29/2018 8:51:22 PM	33859	3.17	37180	2500.00000	2285.723319	91
JU11	Standard	3/29/2018 9:02:09 PM	132713	3.17	30040	10000.00000	11067.824617	111
JU12	Standard	3/29/2018 9:12:55 PM	318375	3.17	41200	20000.00000	19352.527464	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	1755	3.17	45770	N/A	101.555028	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	14031	3.16	44230	1000.00000	799.829109	80
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	41500	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	520	3.17	26830	N/A	54.036498	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	33763	3.17	35950	N/A	2356.999588	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	26970	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	30370	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	37520	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	14521	3.16	42290	1000.00000	865.341070	87

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.20) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 29.579582 ng/L</p> <p>Area: 417.073823</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.18 (3.20) min</p> <p>Calculated Conc: 51.481084 ng/L</p> <p>Area: 766.903571</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.17 (3.20) min</p> <p>Calculated Conc: 119.405501 ng/L</p> <p>Area: 1933.328324</p> <p>Modified: (False)</p>	

Analyte: PFUnA_1 (563.0 / 519.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	12006	3.50	43240	25.00000	27.809396	111
JU05	Standard	3/29/2018 7:57:30 PM	20347	3.50	46120	50.00000	46.031071	92
JU06	Standard	3/29/2018 8:08:16 PM	43532	3.50	44700	100.00000	105.355956	105
JU07	Standard	3/29/2018 8:19:03 PM	72786	3.50	33530	250.00000	238.674628	95
JU08	Standard	3/29/2018 8:29:49 PM	147864	3.50	36280	500.00000	450.845153	90
JU09	Standard	3/29/2018 8:40:36 PM	357974	3.50	40220	1000.00000	988.413322	99
JU10	Standard	3/29/2018 8:51:22 PM	783332	3.50	33220	2500.00000	2623.811311	105
JU11	Standard	3/29/2018 9:02:09 PM	3016899	3.50	32180	10000.00000	10438.270677	104
JU12	Standard	3/29/2018 9:12:55 PM	7753792	3.50	44270	20000.00000	19505.788484	98
JP83 IB	Unknown	3/29/2018 9:23:42 PM	32109	3.50	43000	N/A	80.067917	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	368407	3.49	42650	1000.00000	959.023413	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	44770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	27700	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	852075	3.49	39910	N/A	2375.197007	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	7946	3.49	26690	N/A	30.041740	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	31750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	39030	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	349460	3.48	38930	1000.00000	996.747659	100

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.50) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 27.809396 ng/L</p> <p>Area: 12005.840971</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 46.031071 ng/L</p> <p>Area: 20346.934042</p> <p>Modified: (True)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.50 (3.50) min</p> <p>Calculated Conc: 105.355956 ng/L</p> <p>Area: 43531.677168</p> <p>Modified: (False)</p>	

Analyte: PFUnA_2 (563.0 / 269.0)

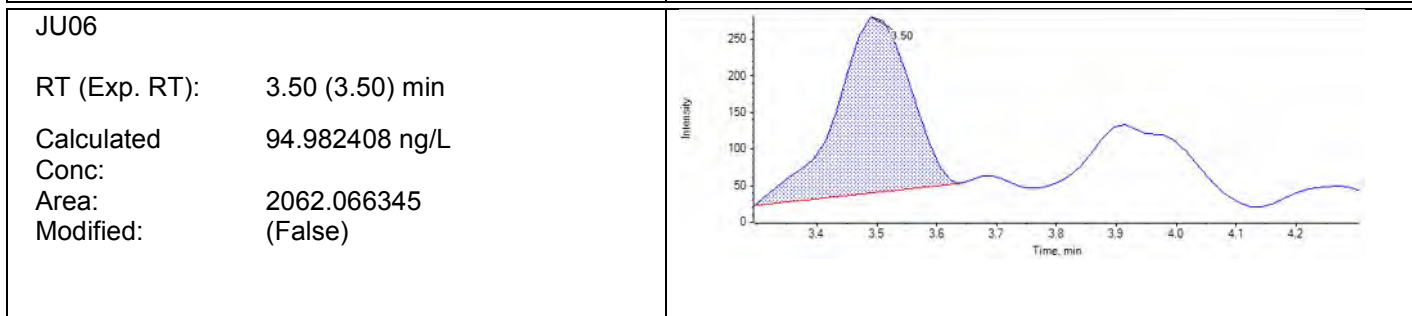
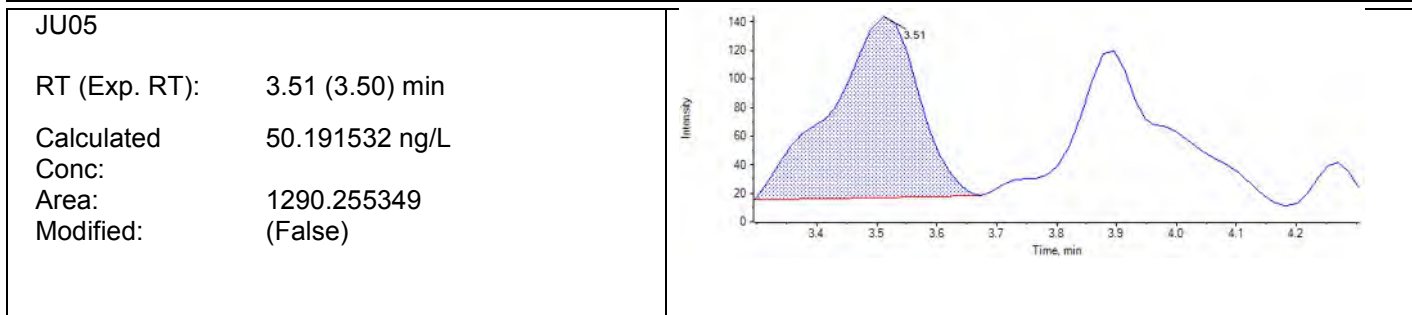
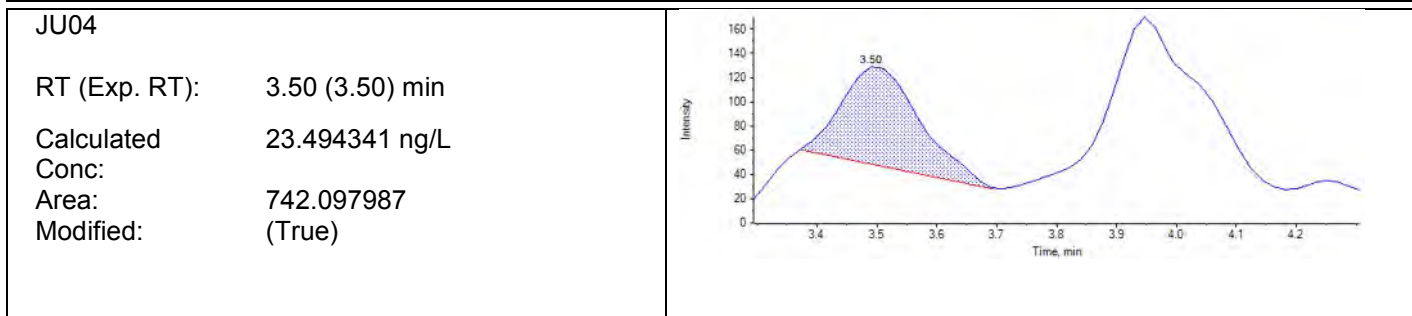
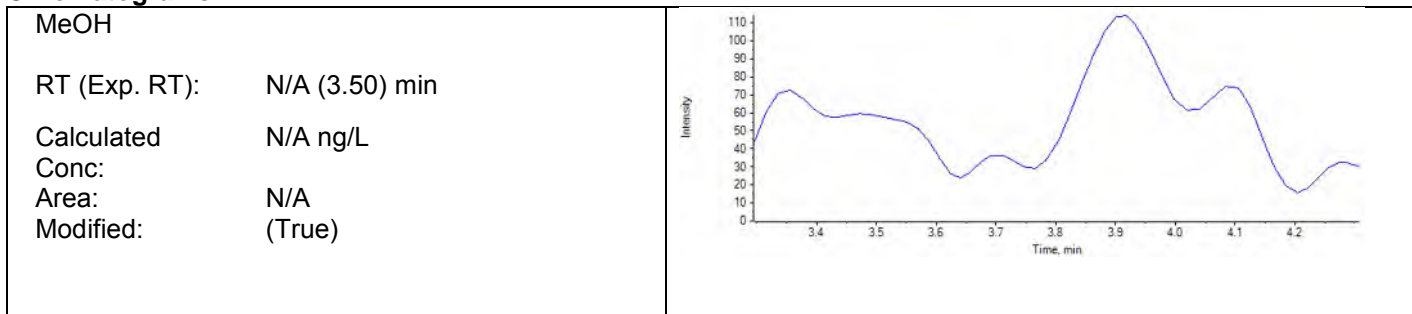
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	742	3.50	43240	25.00000	23.494341	94
JU05	Standard	3/29/2018 7:57:30 PM	1290	3.51	46120	50.00000	50.191532	100
JU06	Standard	3/29/2018 8:08:16 PM	2062	3.50	44700	100.00000	94.982408	95
JU07	Standard	3/29/2018 8:19:03 PM	3976	3.50	33530	250.00000	273.739324	110
JU08	Standard	3/29/2018 8:29:49 PM	7421	3.50	36280	500.00000	485.919754	97
JU09	Standard	3/29/2018 8:40:36 PM	17204	3.50	40220	1000.00000	1036.888823	104
JU10	Standard	3/29/2018 8:51:22 PM	33552	3.50	33220	2500.00000	2473.998299	99
JU11	Standard	3/29/2018 9:02:09 PM	134312	3.49	32180	10000.00000	10279.948544	103
JU12	Standard	3/29/2018 9:12:55 PM	353848	3.49	44270	20000.00000	19705.836976	99
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2046	3.49	43000	N/A	98.588108	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	16920	3.49	42650	1000.00000	960.150869	96
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	44770	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	27700	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	38554	3.49	39910	N/A	2365.335382	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	26690	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	31750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	39030	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	15783	3.48	38930	1000.00000	981.654416	98

Chromatograms:



Analyte: PFD0A_1 (613.0 / 569.0)

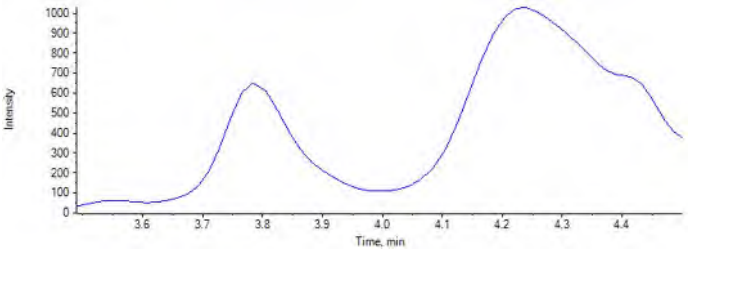
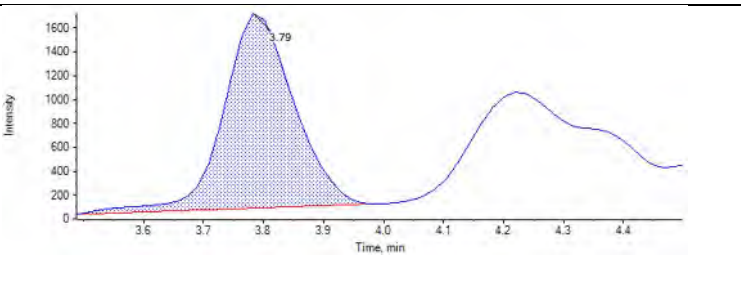
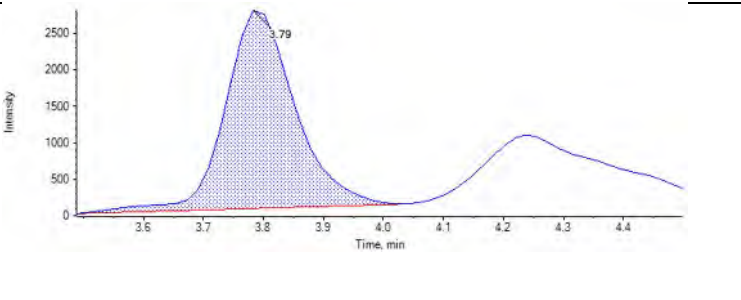
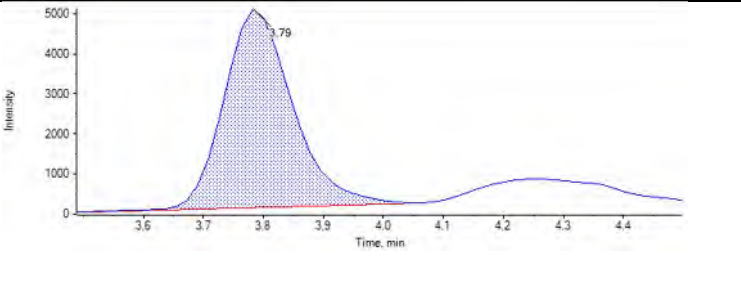
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	13275	3.79	43660	25.00000	18.585863	74
JU05	Standard	3/29/2018 7:57:30 PM	22046	3.79	45030	50.00000	43.934838	88
JU06	Standard	3/29/2018 8:08:16 PM	39377	3.79	44900	100.00000	96.867204	97
JU07	Standard	3/29/2018 8:19:03 PM	71102	3.79	36780	250.00000	241.211483	96
JU08	Standard	3/29/2018 8:29:49 PM	140858	3.79	35310	500.00000	522.164732	104
JU09	Standard	3/29/2018 8:40:36 PM	352371	3.78	40800	1000.00000	1157.206023	116
JU10	Standard	3/29/2018 8:51:22 PM	808937	3.78	35240	2500.00000	3113.816575	125
JU11	Standard	3/29/2018 9:02:09 PM	3064308	3.78	39000	10000.00000	10714.559444	107
JU12	Standard	3/29/2018 9:12:55 PM	8041132	3.78	59270	20000.00000	18516.653838	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	33169	3.78	45140	N/A	77.443091	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	347764	3.78	42040	1000.00000	1107.418270	111
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	42590	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	8145	3.78	24770	N/A	21.972312	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	747961	3.78	36910	N/A	2746.300109	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	5005	3.78	25510	N/A	3.848659	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2623	3.77	27280	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35530	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	352272	3.77	43080	1000.00000	1094.524099	109

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 18.585863 ng/L</p> <p>Area: 13274.649041</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 43.934838 ng/L</p> <p>Area: 22045.996619</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 96.867204 ng/L</p> <p>Area: 39376.988614</p> <p>Modified: (False)</p>	

Analyte: PFDaA_2 (613.0 / 319.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	2028	3.79	43660	25.00000	20.789022	83
JU05	Standard	3/29/2018 7:57:30 PM	3201	3.79	45030	50.00000	41.751139	84
JU06	Standard	3/29/2018 8:08:16 PM	5964	3.78	44900	100.00000	94.252859	94
JU07	Standard	3/29/2018 8:19:03 PM	11133	3.79	36780	250.00000	238.773328	96
JU08	Standard	3/29/2018 8:29:49 PM	22616	3.79	35310	500.00000	526.139502	105
JU09	Standard	3/29/2018 8:40:36 PM	57435	3.78	40800	1000.00000	1178.790809	118
JU10	Standard	3/29/2018 8:51:22 PM	125073	3.78	35240	2500.00000	3000.505564	120
JU11	Standard	3/29/2018 9:02:09 PM	494416	3.78	39000	10000.00000	10766.450030	108
JU12	Standard	3/29/2018 9:12:55 PM	1294230	3.78	59270	20000.00000	18557.547746	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	5869	3.78	45140	N/A	91.864048	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	54473	3.78	42040	1000.00000	1083.544153	108
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	42590	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1076	3.78	24770	N/A	18.232628	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	114794	3.78	36910	N/A	2627.137040	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	672	3.76	25510	N/A	3.699444	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	27280	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	35530	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	53014	3.77	43080	1000.00000	1028.197213	103

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.75) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 160) and time in minutes on the x-axis (3.6 to 4.4). A single prominent peak is observed at 3.77 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 20.789022 ng/L</p> <p>Area: 2027.995429</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 250) and time in minutes on the x-axis (3.6 to 4.4). A peak is labeled at 3.79 minutes.</p>
<p>JU05</p> <p>RT (Exp. RT): 3.79 (3.75) min</p> <p>Calculated Conc: 41.751139 ng/L</p> <p>Area: 3201.464104</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 400) and time in minutes on the x-axis (3.6 to 4.4). A peak is labeled at 3.79 minutes.</p>
<p>JU06</p> <p>RT (Exp. RT): 3.78 (3.75) min</p> <p>Calculated Conc: 94.252859 ng/L</p> <p>Area: 5963.640021</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 700) and time in minutes on the x-axis (3.6 to 4.4). A peak is labeled at 3.78 minutes.</p>

Analyte: PFTrDA_1 (663.0 / 619.0)

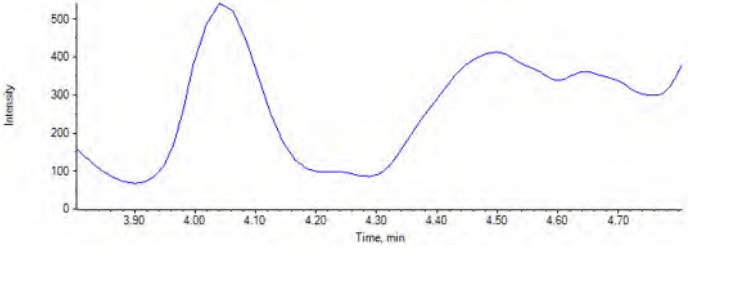
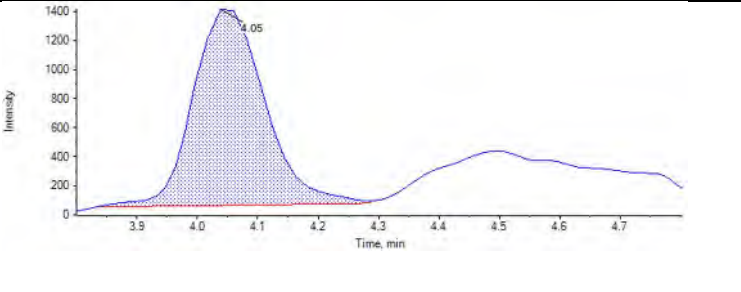
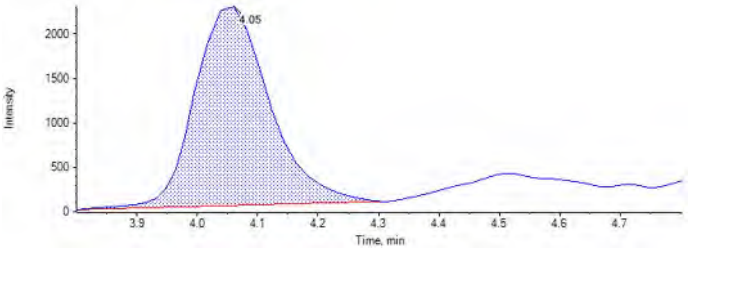
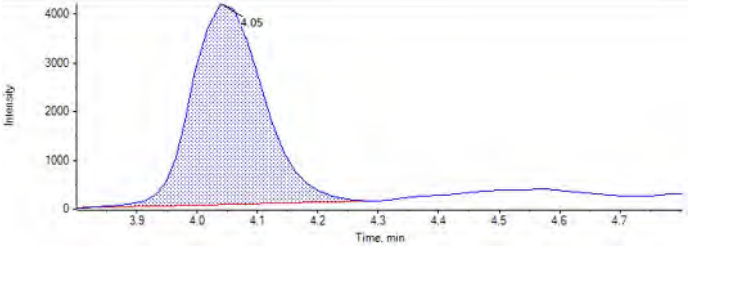
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	11194	4.05	35220	25.00000	18.037092	72
JU05	Standard	3/29/2018 7:57:30 PM	19313	4.05	39810	50.00000	41.435891	83
JU06	Standard	3/29/2018 8:08:16 PM	34260	4.05	38360	100.00000	98.499120	99
JU07	Standard	3/29/2018 8:19:03 PM	60721	4.05	31230	250.00000	245.482933	98
JU08	Standard	3/29/2018 8:29:49 PM	128892	4.05	32570	500.00000	526.942491	105
JU09	Standard	3/29/2018 8:40:36 PM	316179	4.04	35230	1000.00000	1228.445359	123
JU10	Standard	3/29/2018 8:51:22 PM	699532	4.04	32820	2500.00000	2954.091521	118
JU11	Standard	3/29/2018 9:02:09 PM	2679205	4.04	33780	10000.00000	11066.106802	111
JU12	Standard	3/29/2018 9:12:55 PM	7021419	4.04	53730	20000.00000	18245.958790	91
JP83 IB	Unknown	3/29/2018 9:23:42 PM	30171	4.04	39340	N/A	80.847690	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	311245	4.03	36530	1000.00000	1165.167096	117
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	6870	4.03	14270	N/A	40.921316	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	487344	4.03	21390	N/A	3159.966521	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3869	4.03	15510	N/A	8.482100	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2203	4.03	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	317501	4.02	37360	1000.00000	1162.073272	116

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 18.037092 ng/L</p> <p>Area: 11193.854161</p> <p>Modified: (True)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 41.435891 ng/L</p> <p>Area: 19313.189523</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 98.499120 ng/L</p> <p>Area: 34260.142843</p> <p>Modified: (False)</p>	

Analyte: PFTTrDA_2 (663.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	761	4.05	35220	25.00000	24.482066	98
JU05	Standard	3/29/2018 7:57:30 PM	1076	4.04	39810	50.00000	35.219009	70
JU06	Standard	3/29/2018 8:08:16 PM	2365	4.05	38360	100.00000	103.876978	104
JU07	Standard	3/29/2018 8:19:03 PM	4142	4.04	31230	250.00000	244.481018	98
JU08	Standard	3/29/2018 8:29:49 PM	8631	4.04	32570	500.00000	506.816096	101
JU09	Standard	3/29/2018 8:40:36 PM	20517	4.04	35230	1000.00000	1135.695566	114
JU10	Standard	3/29/2018 8:51:22 PM	46550	4.04	32820	2500.00000	2792.612745	112
JU11	Standard	3/29/2018 9:02:09 PM	189201	4.03	33780	10000.00000	11083.593179	111
JU12	Standard	3/29/2018 9:12:55 PM	502040	4.04	53730	20000.00000	18498.223344	92
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2263	4.04	39340	N/A	95.651446	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	22240	4.03	36530	1000.00000	1188.360426	119
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	528	4.03	14270	N/A	55.001075	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	36931	4.03	21390	N/A	3403.858354	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	279	4.01	15510	N/A	17.377666	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	127	4.04	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	21296	4.02	37360	1000.00000	1111.421715	111

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.10) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 24.482066 ng/L</p> <p>Area: 761.032463</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.04 (4.10) min</p> <p>Calculated Conc: 35.219009 ng/L</p> <p>Area: 1075.826407</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.05 (4.10) min</p> <p>Calculated Conc: 103.876978 ng/L</p> <p>Area: 2365.336178</p> <p>Modified: (False)</p>	

Analyte: PFTeDA_1 (713.0 / 669.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	12657	4.27	35220	25.00000	20.698509	83
JU05	Standard	3/29/2018 7:57:30 PM	19748	4.27	39810	50.00000	37.374163	75
JU06	Standard	3/29/2018 8:08:16 PM	38870	4.27	38360	100.00000	100.483978	100
JU07	Standard	3/29/2018 8:19:03 PM	70859	4.27	31230	250.00000	253.641545	101
JU08	Standard	3/29/2018 8:29:49 PM	147700	4.27	32570	500.00000	530.011524	106
JU09	Standard	3/29/2018 8:40:36 PM	350563	4.27	35230	1000.00000	1190.575893	119
JU10	Standard	3/29/2018 8:51:22 PM	776102	4.26	32820	2500.00000	2861.500365	114
JU11	Standard	3/29/2018 9:02:09 PM	2987998	4.26	33780	10000.00000	10768.712330	108
JU12	Standard	3/29/2018 9:12:55 PM	8230664	4.26	53730	20000.00000	18662.001693	93
JP83 IB	Unknown	3/29/2018 9:23:42 PM	38318	4.26	39340	N/A	95.686639	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	346970	4.26	36530	1000.00000	1135.643035	114
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	7229	4.26	14270	N/A	38.659502	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	499091	4.26	21390	N/A	2823.496803	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	3586	4.26	15510	N/A	5.066297	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	2180	4.25	18040	N/A	< 0	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	972	4.25	20910	N/A	< 0	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	345189	4.25	37360	1000.00000	1104.043778	110

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 20.698509 ng/L</p> <p>Area: 12657.108570</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 37.374163 ng/L</p> <p>Area: 19747.668766</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 100.483978 ng/L</p> <p>Area: 38870.333588</p> <p>Modified: (False)</p>	

Analyte: PFTeDA_2 (713.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	596	4.26	35220	25.00000	23.171072	93
JU05	Standard	3/29/2018 7:57:30 PM	898	4.27	39810	50.00000	36.229290	72
JU06	Standard	3/29/2018 8:08:16 PM	1999	4.27	38360	100.00000	104.692473	105
JU07	Standard	3/29/2018 8:19:03 PM	3793	4.26	31230	250.00000	265.266327	106
JU08	Standard	3/29/2018 8:29:49 PM	6945	4.27	32570	500.00000	477.858637	96
JU09	Standard	3/29/2018 8:40:36 PM	18075	4.26	35230	1000.00000	1172.163483	117
JU10	Standard	3/29/2018 8:51:22 PM	38995	4.26	32820	2500.00000	2735.811572	109
JU11	Standard	3/29/2018 9:02:09 PM	157113	4.26	33780	10000.00000	10757.710831	108
JU12	Standard	3/29/2018 9:12:55 PM	437753	4.26	53730	20000.00000	18852.096314	94
JP83 IB	Unknown	3/29/2018 9:23:42 PM	2079	4.26	39340	N/A	106.379057	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	17154	4.25	36530	1000.00000	1071.718303	107
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	38020	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	431	4.24	14270	N/A	53.919886	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	24983	4.25	21390	N/A	2689.414852	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	218	4.25	15510	N/A	16.524613	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	18040	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	20910	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	17652	4.25	37360	1000.00000	1078.395151	108

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (4.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows a noisy baseline with a prominent peak at 4.25 minutes. The y-axis represents intensity from 0 to 35, and the x-axis represents time from 4.1 to 4.9 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 4.26 (4.30) min</p> <p>Calculated Conc: 23.171072 ng/L</p> <p>Area: 595.691715</p> <p>Modified: (False)</p>	<p>The chromatogram shows a peak at 4.26 minutes. The y-axis represents intensity from 0 to 70, and the x-axis represents time from 4.1 to 4.9 minutes. The peak is shaded in blue.</p>
<p>JU05</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 36.229290 ng/L</p> <p>Area: 897.730230</p> <p>Modified: (False)</p>	<p>The chromatogram shows a peak at 4.27 minutes. The y-axis represents intensity from 0 to 120, and the x-axis represents time from 4.1 to 4.9 minutes. The peak is shaded in blue.</p>
<p>JU06</p> <p>RT (Exp. RT): 4.27 (4.30) min</p> <p>Calculated Conc: 104.692473 ng/L</p> <p>Area: 1998.777313</p> <p>Modified: (False)</p>	<p>The chromatogram shows a peak at 4.27 minutes. The y-axis represents intensity from 0 to 200, and the x-axis represents time from 4.1 to 4.9 minutes. The peak is shaded in blue.</p>

Analyte: NMeFOSAA_1 (570.0 / 419.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

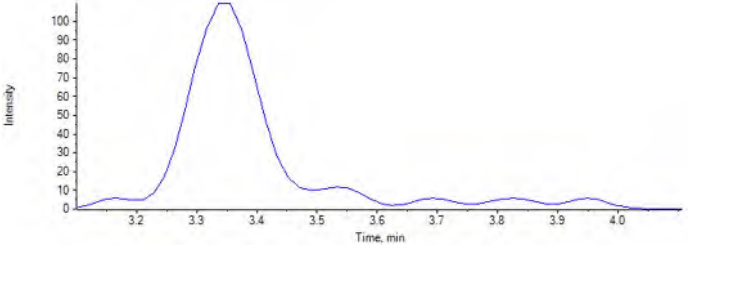
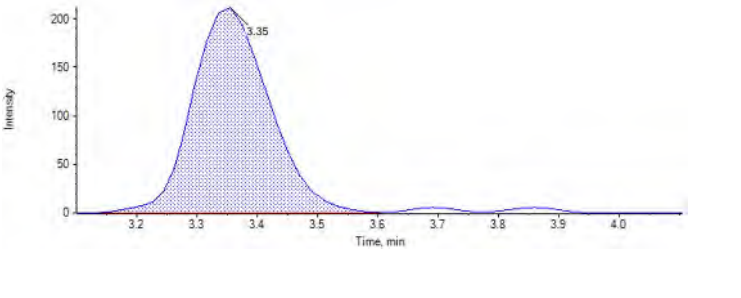
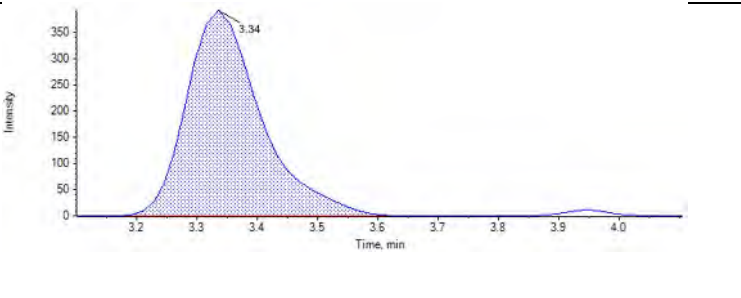
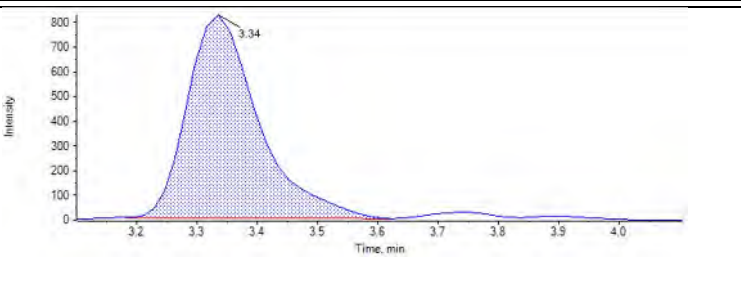
Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1870	3.35	6367	25.00000	32.169726	129
JU05	Standard	3/29/2018 7:57:30 PM	3375	3.34	6113	50.00000	55.645104	111
JU06	Standard	3/29/2018 8:08:16 PM	6764	3.34	7990	100.00000	82.449873	82
JU07	Standard	3/29/2018 8:19:03 PM	12765	3.34	5664	250.00000	211.355806	85
JU08	Standard	3/29/2018 8:29:49 PM	25252	3.34	5607	500.00000	420.344353	84
JU09	Standard	3/29/2018 8:40:36 PM	58220	3.33	5285	1000.00000	1046.700488	105
JU10	Standard	3/29/2018 8:51:22 PM	130321	3.33	5030	2500.00000	2627.097605	105
JU11	Standard	3/29/2018 9:02:09 PM	490992	3.33	7440	10000.00000	9880.284792	99
JU12	Standard	3/29/2018 9:12:55 PM	1313431	3.33	9562	20000.00000	no root	N/A
JU13 IB	Unknown	3/29/2018 9:23:42 PM	7644	3.33	6596	N/A	110.947437	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	58365	3.33	7442	1000.00000	737.293483	74
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6741	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1368	3.33	3932	N/A	37.074561	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	127704	3.33	6026	N/A	2100.534197	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1336	3.33	2854	N/A	48.021580	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	456	3.33	4519	N/A	14.679917	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5607	N/A	N/A	N/A

Not being used in this calibration
 DMS 4/6/18

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	55006	3.32	6215	1000.00000	834.573419	83

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.35 (3.30) min</p> <p>Calculated Conc: 32.169726 ng/L</p> <p>Area: 1870.260290</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 55.645104 ng/L</p> <p>Area: 3374.956561</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 82.449873 ng/L</p> <p>Area: 6763.856331</p> <p>Modified: (False)</p>	

Analyte: NMeFOSAA_2 (570.0 / 512.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1632	3.34	6367	25.00000	27.650834	111
JU05	Standard	3/29/2018 7:57:30 PM	1952	3.34	6113	50.00000	40.640841	81
JU06	Standard	3/29/2018 8:08:16 PM	3689	3.34	7990	100.00000	70.096948	70
JU07	Standard	3/29/2018 8:19:03 PM	6974	3.33	5664	250.00000	229.533991	92
JU08	Standard	3/29/2018 8:29:49 PM	15449	3.34	5607	500.00000	546.889443	109
JU09	Standard	3/29/2018 8:40:36 PM	33099	3.33	5285	1000.00000	1285.828032	129
JU10	Standard	3/29/2018 8:51:22 PM	71765	3.33	5030	2500.00000	3019.444766	121
JU11	Standard	3/29/2018 9:02:09 PM	273220	3.33	7440	10000.00000	8302.470284	83
JU12	Standard	3/29/2018 9:12:55 PM	755274	3.33	9562	20000.00000	21088.210110	105
JP83 IB	Unknown	3/29/2018 9:23:42 PM	4543	3.33	6596	N/A	117.082395	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	34459	3.33	7442	1000.00000	940.356425	94
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	6741	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	569	3.32	3932	N/A	4.561311	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	70676	3.33	6026	N/A	2462.046984	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	595	3.34	2854	N/A	17.719170	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	4519	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5607	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	32125	3.32	6215	1000.00000	1053.920912	105

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.30) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 27.650834 ng/L</p> <p>Area: 1632.474976</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 40.640841 ng/L</p> <p>Area: 1951.505124</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.34 (3.30) min</p> <p>Calculated Conc: 70.096948 ng/L</p> <p>Area: 3689.216127</p> <p>Modified: (False)</p>	

Analyte: NETFOSAA_1 (584.0 / 419.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	1582	3.50	7166	25.00000	25.089843	100
JU05	Standard	3/29/2018 7:57:30 PM	3092	3.50	7427	50.00000	50.987744	102
JU06	Standard	3/29/2018 8:08:16 PM	6030	3.51	7311	100.00000	105.048487	105
JU07	Standard	3/29/2018 8:19:03 PM	10949	3.50	5896	250.00000	241.694137	97
JU08	Standard	3/29/2018 8:29:49 PM	21793	3.50	6189	500.00000	462.018768	92
JU09	Standard	3/29/2018 8:40:36 PM	53491	3.50	6736	1000.00000	1047.054598	105
JU10	Standard	3/29/2018 8:51:22 PM	119005	3.50	6458	2500.00000	2435.103646	97
JU11	Standard	3/29/2018 9:02:09 PM	449432	3.50	5815	10000.00000	10227.125206	102
JU12	Standard	3/29/2018 9:12:55 PM	1161080	3.50	7749	20000.00000	19830.877572	99
JP83 IB	Unknown	3/29/2018 9:23:42 PM	8339	3.49	7880	N/A	135.958857	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	56365	3.49	6492	1000.00000	1145.121580	115
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	7204	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	1606	3.48	3826	N/A	51.436599	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	118076	3.49	5268	N/A	2962.710584	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	1539	3.50	4402	N/A	42.152243	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	595	3.48	3913	N/A	15.988715	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5567	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	54772	3.49	5766	1000.00000	1253.275267	125

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 110) and time in minutes on the x-axis (3.4 to 4.2). A prominent peak is observed at 3.5 minutes, reaching an intensity of approximately 110. There are smaller peaks at approximately 3.95 and 4.15 minutes.</p>
<p>JU04</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 25.089843 ng/L</p> <p>Area: 1581.913907</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 150) and time in minutes on the x-axis (3.4 to 4.2). A peak is labeled at 3.50 minutes with an intensity of approximately 150. The peak is shaded in blue.</p>
<p>JU05</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 50.987744 ng/L</p> <p>Area: 3092.391531</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 350) and time in minutes on the x-axis (3.4 to 4.2). A peak is labeled at 3.50 minutes with an intensity of approximately 350. The peak is shaded in blue.</p>
<p>JU06</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 105.048487 ng/L</p> <p>Area: 6029.851195</p> <p>Modified: (False)</p>	<p>The chromatogram shows intensity on the y-axis (0 to 700) and time in minutes on the x-axis (3.4 to 4.2). A peak is labeled at 3.51 minutes with an intensity of approximately 700. The peak is shaded in blue.</p>

Analyte: NETFOSAA_2 (584.0 / 483.0)

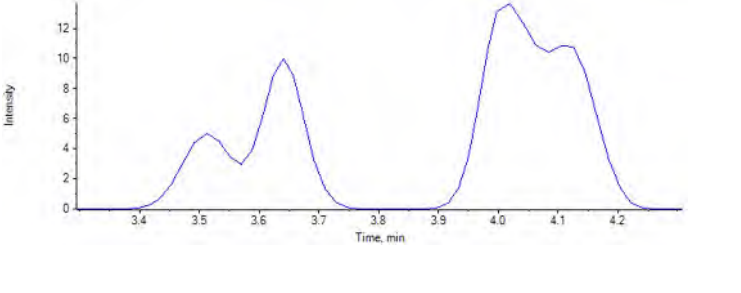
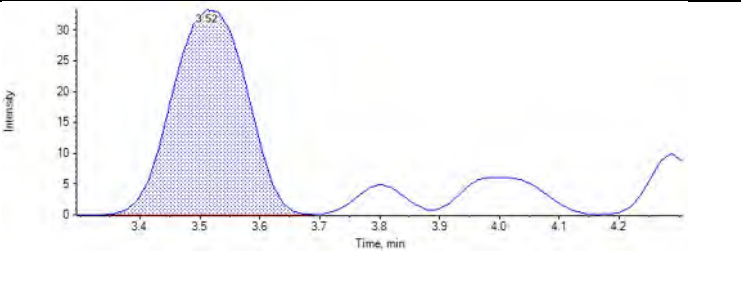
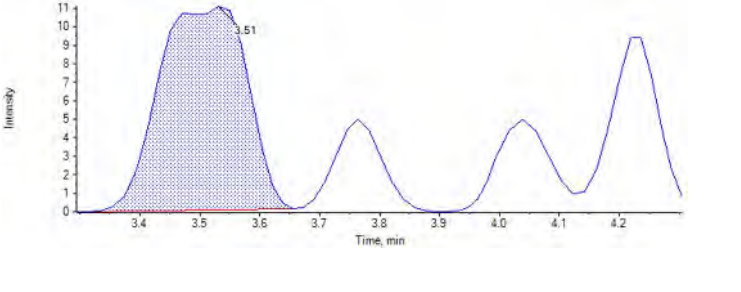
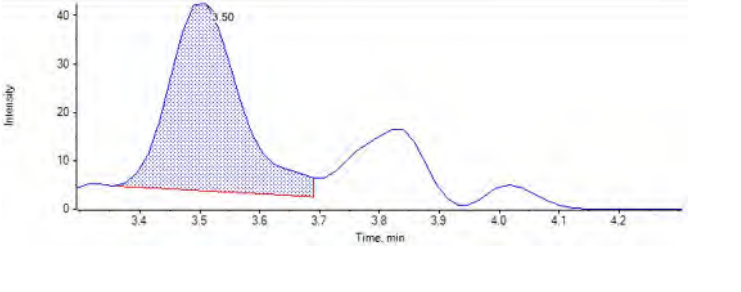
Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	287	3.52	7166	25.00000	92.065604	368
JU05	Standard	3/29/2018 7:57:30 PM	113	3.51	7427	50.00000	35.851083	72
JU06	Standard	3/29/2018 8:08:16 PM	322	3.50	7311	100.00000	100.927486	101
JU07	Standard	3/29/2018 8:19:03 PM	614	3.50	5896	250.00000	237.021437	95
JU08	Standard	3/29/2018 8:29:49 PM	1653	3.49	6189	500.00000	606.268765	121
JU09	Standard	3/29/2018 8:40:36 PM	3412	3.50	6736	1000.00000	1148.398097	115
JU10	Standard	3/29/2018 8:51:22 PM	6577	3.50	6458	2500.00000	2307.175978	92
JU11	Standard	3/29/2018 9:02:09 PM	27916	3.49	5815	10000.00000	10871.876953	109
JU12	Standard	3/29/2018 9:12:55 PM	65333	3.50	7749	20000.00000	19092.480200	95
JP83 IB	Unknown	3/29/2018 9:23:42 PM	723	3.48	7880	N/A	208.964181	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	3494	3.49	6492	1000.00000	1219.963273	122
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	7204	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	3826	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	5990	3.49	5268	N/A	2575.806244	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	117	3.47	4402	N/A	61.486467	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	3913	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	5567	N/A	N/A	N/A

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	3286	3.49	5766	1000.00000	1291.713214	129

Chromatograms:

<p>MeOH</p> <p>RT (Exp. RT): N/A (3.40) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 3.52 (3.40) min</p> <p>Calculated Conc: 92.065604 ng/L</p> <p>Area: 287.109325</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 3.51 (3.40) min</p> <p>Calculated Conc: 35.851083 ng/L</p> <p>Area: 113.169395</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 3.50 (3.40) min</p> <p>Calculated Conc: 100.927486 ng/L</p> <p>Area: 321.519454</p> <p>Modified: (False)</p>	

Analyte: PFBA (213.0 / 169.0)

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Samples:

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
MeOH	Unknown	3/29/2018 7:35:56 PM	N/A	N/A	N/A	N/A	N/A	N/A
JU04	Standard	3/29/2018 7:46:42 PM	19104	1.07	28770	25.00000	17.241044	69
JU05	Standard	3/29/2018 7:57:30 PM	25153	1.07	28470	50.00000	44.113279	88
JU06	Standard	3/29/2018 8:08:16 PM	41692	1.05	28920	100.00000	112.419718	112
JU07	Standard	3/29/2018 8:19:03 PM	62131	1.04	23550	250.00000	258.858121	104
JU08	Standard	3/29/2018 8:29:49 PM	97169	1.04	24390	500.00000	423.629329	85
JU09	Standard	3/29/2018 8:40:36 PM	292405	1.03	30000	1000.00000	1129.039886	113
JU10	Standard	3/29/2018 8:51:22 PM	497078	1.03	25120	2500.00000	2357.771243	94
JU11	Standard	3/29/2018 9:02:09 PM	1871940	1.03	21280	10000.00000	10699.785937	107
JU12	Standard	3/29/2018 9:12:55 PM	4819435	1.03	30340	20000.00000	19374.382488	97
JP83 IB	Unknown	3/29/2018 9:23:42 PM	26282	1.07	30920	N/A	40.027192	N/A
JU13 ICC	Quality Control	3/29/2018 9:34:30 PM	238832	1.03	27570	1000.00000	996.253548	100
JU38 Branch	Unknown	3/29/2018 9:45:17 PM	N/A	N/A	28100	N/A	N/A	N/A
MeOH	Unknown	3/29/2018 9:56:02 PM	N/A	N/A	N/A	N/A	N/A	N/A
CQ350PB-FS(3)	Unknown	3/29/2018 10:06:49 PM	N/A	N/A	17410	N/A	N/A	N/A
CQ351LCS-FS(3)	Unknown	3/29/2018 10:17:36 PM	519704	1.03	25710	N/A	2409.546216	N/A
J5386-FS(3)	Unknown	3/29/2018 10:28:22 PM	N/A	N/A	18060	N/A	N/A	N/A
J5391-FS(3)	Unknown	3/29/2018 10:39:08 PM	N/A	N/A	19750	N/A	N/A	N/A
J5393-FS(3)	Unknown	3/29/2018 10:49:54 PM	N/A	N/A	22710	N/A	N/A	N/A

Not being used in this calibration DMS 4/6/18

Sample Name	Sample Type	Acquisition Date	Area (cps)	RT (min)	IS Area (cps)	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Acc (%)
JU09 CCV	Quality Control	3/29/2018 11:00:40 PM	271572	1.03	24930	1000.00000	1269.397362	127

Chromatograms:

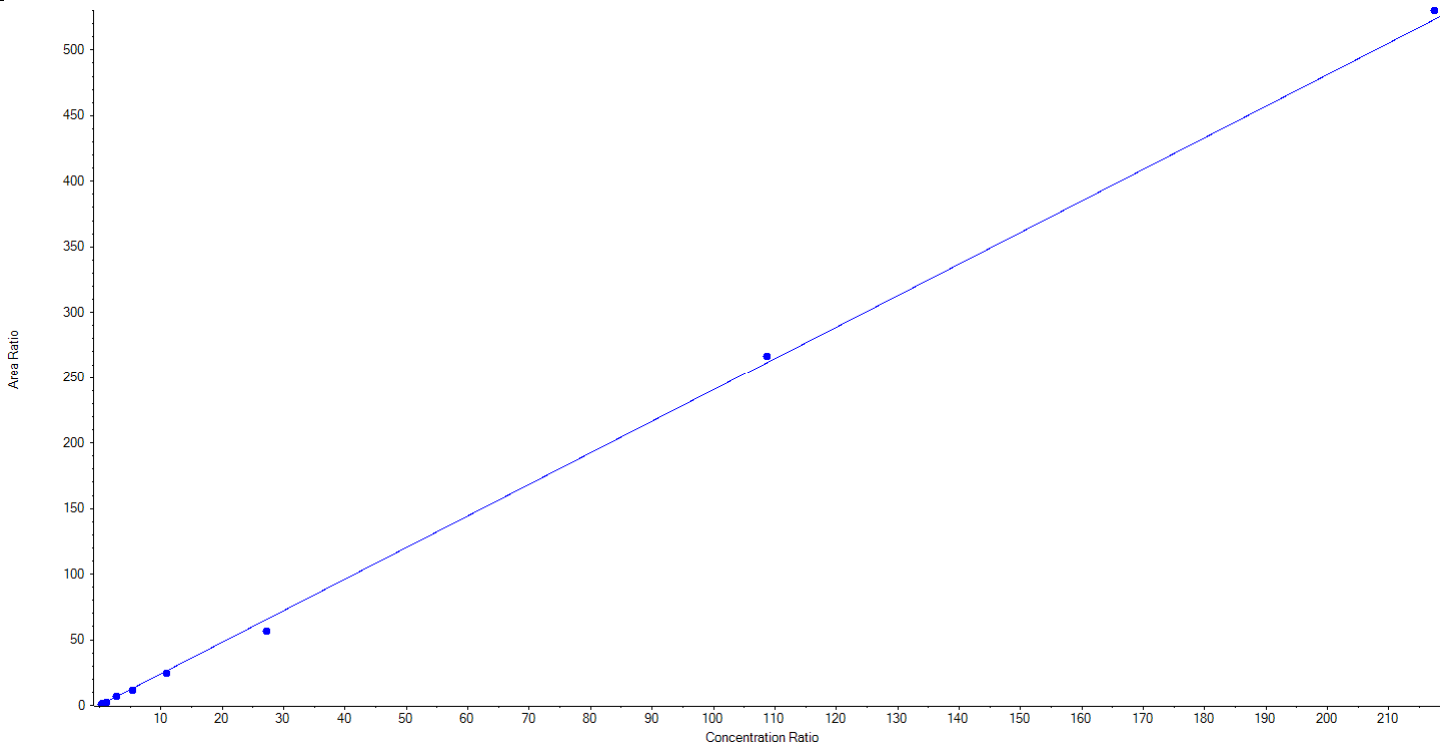
<p>MeOH</p> <p>RT (Exp. RT): N/A (1.00) min</p> <p>Calculated Conc: N/A ng/L</p> <p>Area: N/A</p> <p>Modified: (True)</p>	
<p>JU04</p> <p>RT (Exp. RT): 1.07 (1.00) min</p> <p>Calculated Conc: 17.241041 ng/L</p> <p>Area: 19103.914883</p> <p>Modified: (False)</p>	
<p>JU05</p> <p>RT (Exp. RT): 1.07 (1.00) min</p> <p>Calculated Conc: 44.113279 ng/L</p> <p>Area: 25153.206213</p> <p>Modified: (False)</p>	
<p>JU06</p> <p>RT (Exp. RT): 1.05 (1.00) min</p> <p>Calculated Conc: 112.419718 ng/L</p> <p>Area: 41692.077256</p> <p>Modified: (False)</p>	

Analyte Name: PFBS_1
Internal Standard: 13C3-PFBS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 2.40631 x + -0.00311$ (r = 0.99905) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.546087	117.0	N/A	N/A
50.50000	1 of 1	57.819667	114.5	N/A	N/A
101.00000	1 of 1	97.437836	96.5	N/A	N/A
252.50000	1 of 1	254.440891	100.8	N/A	N/A
505.00000	1 of 1	438.237188	86.8	N/A	N/A
1010.00000	1 of 1	954.534400	94.5	N/A	N/A
2525.00000	1 of 1	2193.471695	86.9	N/A	N/A
10100.00000	1 of 1	10280.713973	101.8	N/A	N/A
20200.00000	1 of 1	20463.048262	101.3	N/A	N/A

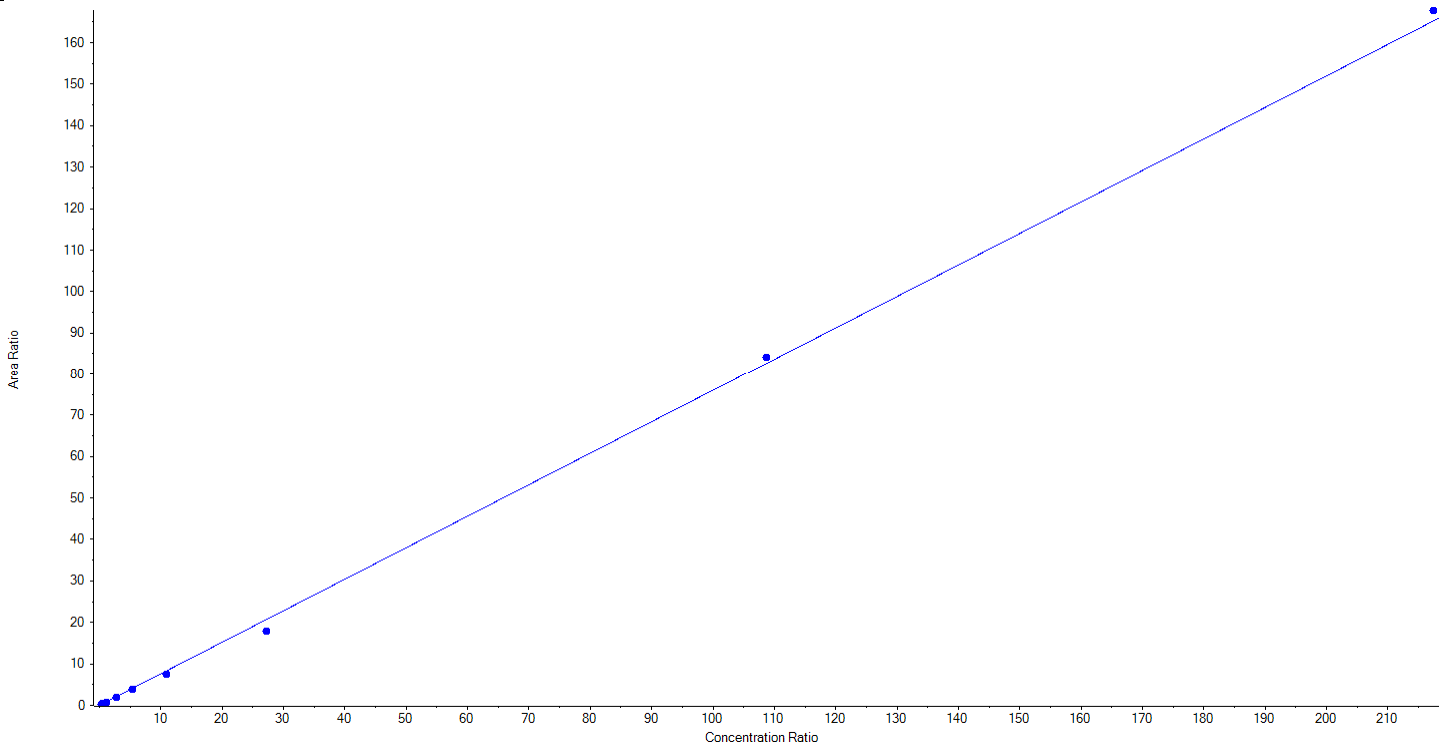


Analyte Name: PFBS_2
Internal Standard: 13C3-PFBS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.75976 x + 0.03059$ ($r = 0.99895$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	29.342453	116.2	N/A	N/A
50.50000	1 of 1	62.969644	124.7	N/A	N/A
101.00000	1 of 1	91.992005	91.1	N/A	N/A
252.50000	1 of 1	246.764500	97.7	N/A	N/A
505.00000	1 of 1	454.561605	90.0	N/A	N/A
1010.00000	1 of 1	911.657403	90.3	N/A	N/A
2525.00000	1 of 1	2190.868679	86.8	N/A	N/A
10100.00000	1 of 1	10274.963832	101.7	N/A	N/A
20200.00000	1 of 1	20506.129879	101.5	N/A	N/A

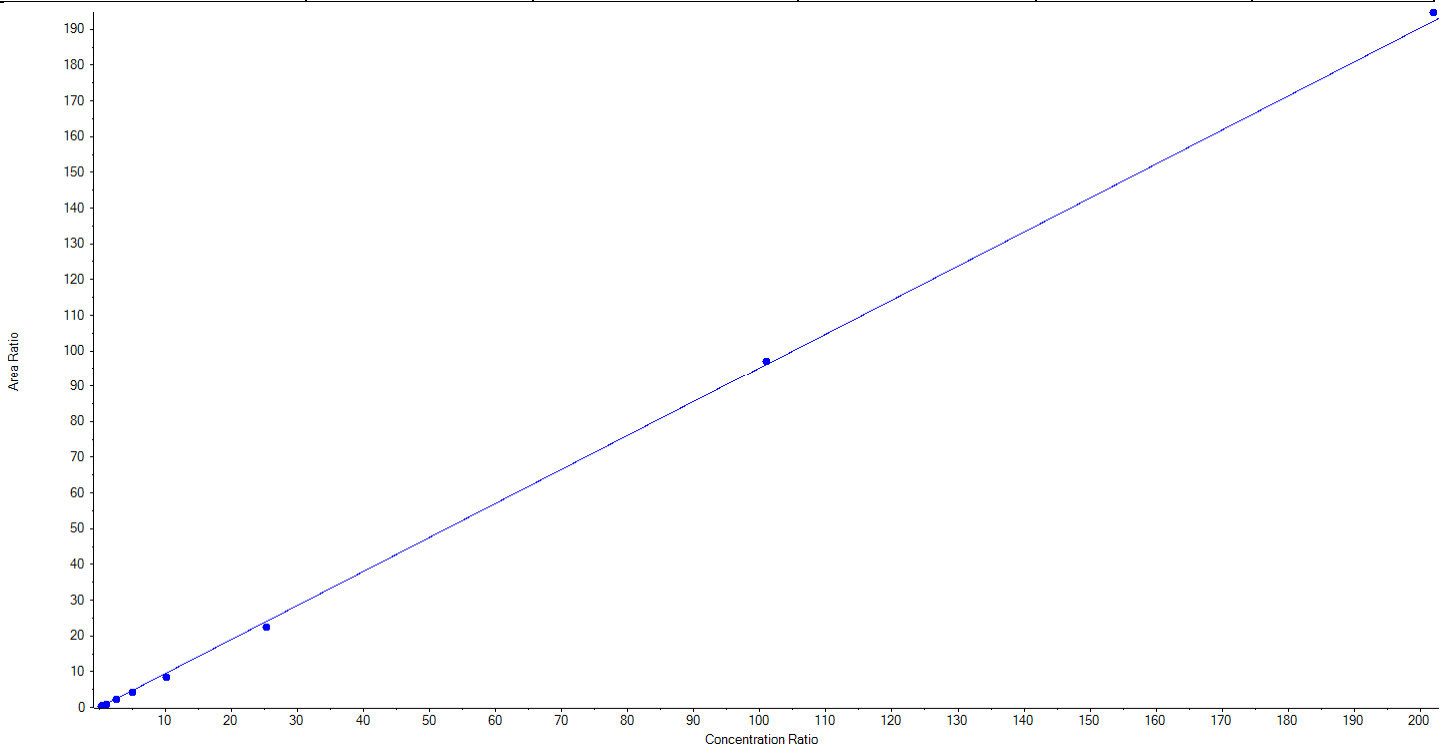


Analyte Name: PFHxA_1
Internal Standard: 13C5-PFHxA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.95213x + -0.01810$ ($r = 0.99940$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	32.108208	127.2	N/A	N/A
50.50000	1 of 1	56.216074	111.3	N/A	N/A
101.00000	1 of 1	100.928808	99.9	N/A	N/A
252.50000	1 of 1	223.227908	88.4	N/A	N/A
505.00000	1 of 1	449.860662	89.1	N/A	N/A
1010.00000	1 of 1	893.148377	88.4	N/A	N/A
2525.00000	1 of 1	2358.310431	93.4	N/A	N/A
10100.00000	1 of 1	10203.682302	101.0	N/A	N/A
20200.00000	1 of 1	20451.767229	101.3	N/A	N/A

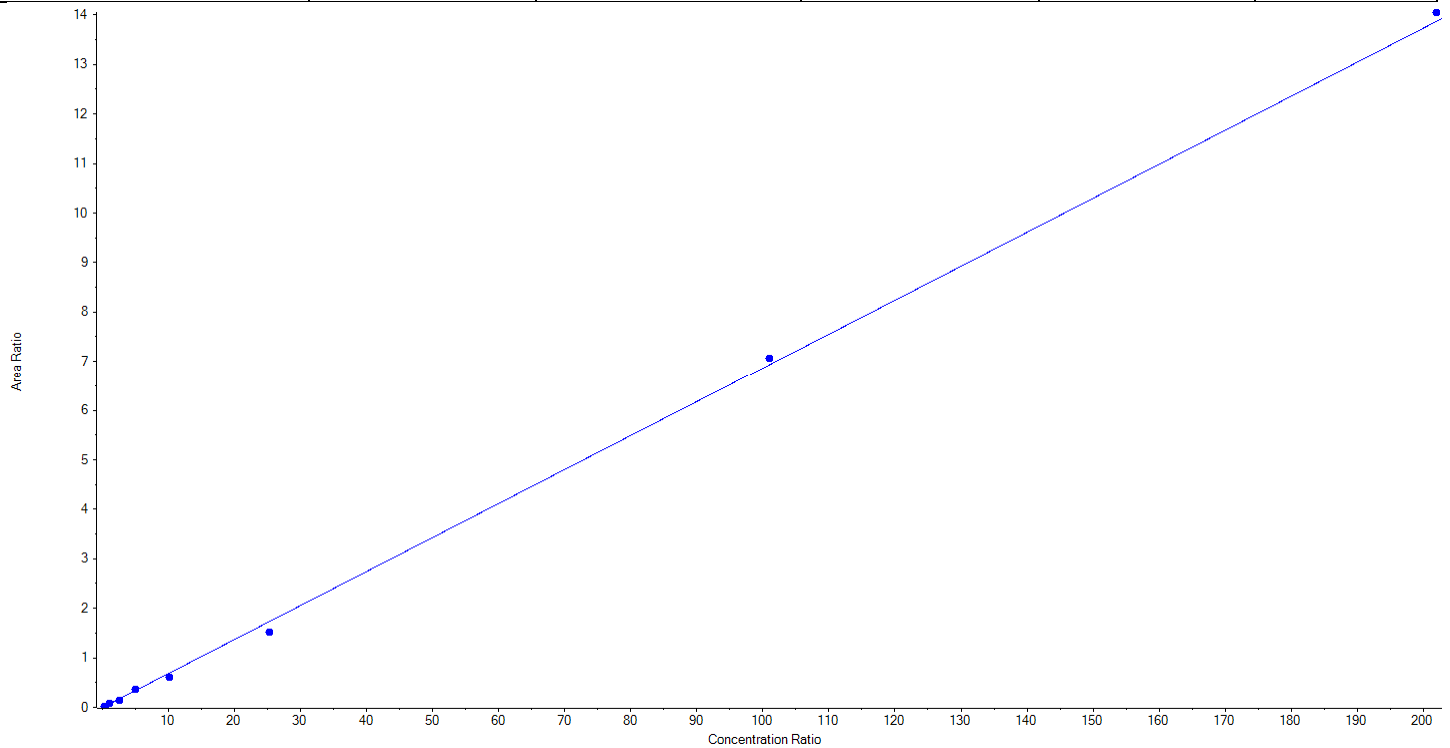


Analyte Name: PFHxA_2
Internal Standard: 13C5-PFHxA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.06868x + -0.00304$ ($r = 0.99887$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	30.730900	121.7	N/A	N/A
50.50000	1 of 1	47.189149	93.4	N/A	N/A
101.00000	1 of 1	118.260833	117.1	N/A	N/A
252.50000	1 of 1	211.893503	83.9	N/A	N/A
505.00000	1 of 1	535.846621	106.1	N/A	N/A
1010.00000	1 of 1	883.060455	87.4	N/A	N/A
2525.00000	1 of 1	2202.720742	87.2	N/A	N/A
10100.00000	1 of 1	10279.586155	101.8	N/A	N/A
20200.00000	1 of 1	20459.961643	101.3	N/A	N/A

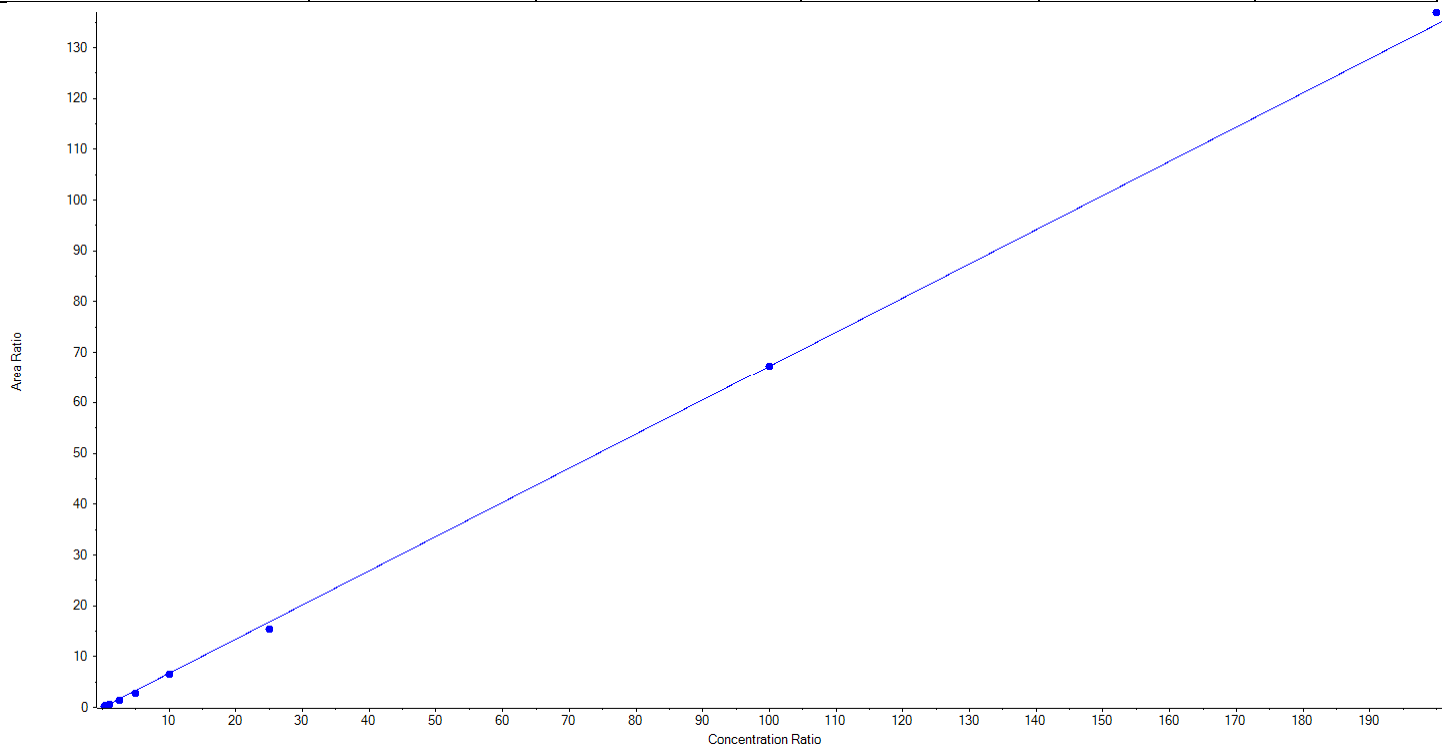


Analyte Name: PFHpA_1
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.67294 x + -0.02658$ ($r = 0.99931$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.197633	128.8	N/A	N/A
50.00000	1 of 1	54.253804	108.5	N/A	N/A
100.00000	1 of 1	102.007600	102.0	N/A	N/A
250.00000	1 of 1	220.992703	88.4	N/A	N/A
500.00000	1 of 1	408.761957	81.8	N/A	N/A
1000.00000	1 of 1	970.744144	97.1	N/A	N/A
2500.00000	1 of 1	2295.050119	91.8	N/A	N/A
10000.00000	1 of 1	9992.681399	99.9	N/A	N/A
20000.00000	1 of 1	20348.310641	101.7	N/A	N/A

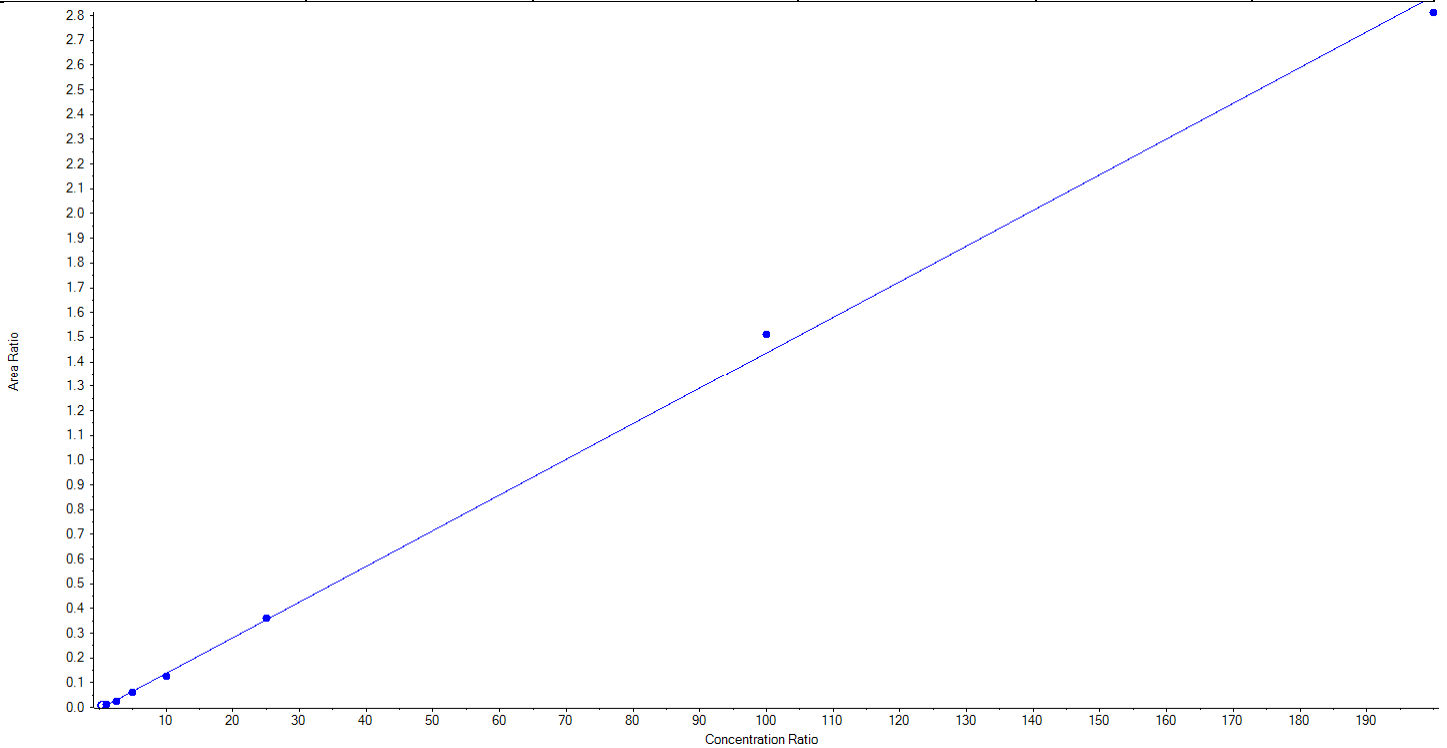


Analyte Name: PFHpA_2
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.01443x + -0.00701$ ($r = 0.99914$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	120.742095	120.7	N/A	N/A
250.00000	1 of 1	223.686864	89.5	N/A	N/A
500.00000	1 of 1	457.567789	91.5	N/A	N/A
1000.00000	1 of 1	931.504230	93.2	N/A	N/A
2500.00000	1 of 1	2555.199660	102.2	N/A	N/A
10000.00000	1 of 1	10520.939088	105.2	N/A	N/A
20000.00000	1 of 1	19540.360274	97.7	N/A	N/A

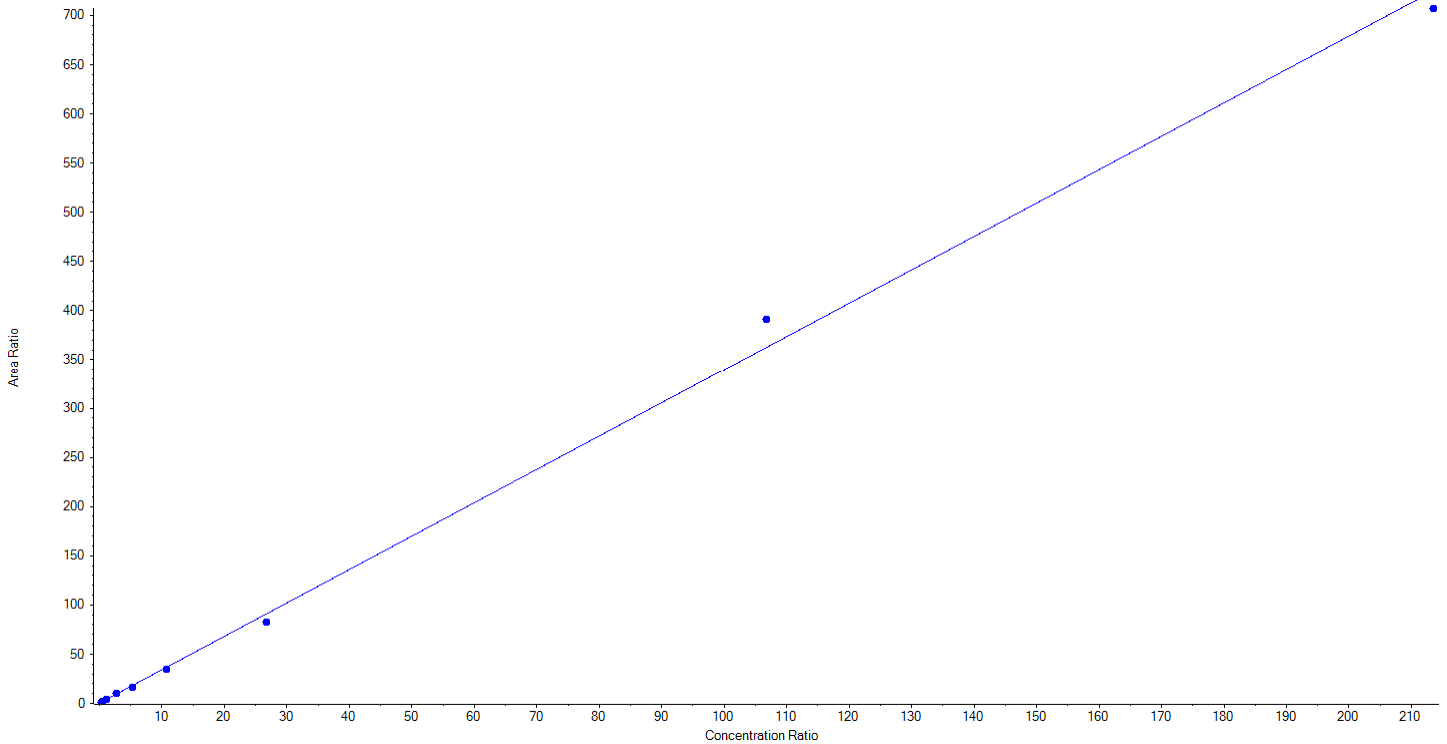


Analyte Name: PFHxS_1
Internal Standard: 13C3-PFHxS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 3.39369x + 0.26882$ ($r = 0.99839$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	26.892868	106.5	N/A	N/A
50.50000	1 of 1	47.936865	94.9	N/A	N/A
101.00000	1 of 1	108.161715	107.1	N/A	N/A
252.50000	1 of 1	282.324036	111.8	N/A	N/A
505.00000	1 of 1	448.094441	88.7	N/A	N/A
1010.00000	1 of 1	951.068384	94.2	N/A	N/A
2525.00000	1 of 1	2306.288510	91.3	N/A	N/A
10100.00000	1 of 1	10898.757134	107.9	N/A	N/A
20200.00000	1 of 1	19699.726048	97.5	N/A	N/A

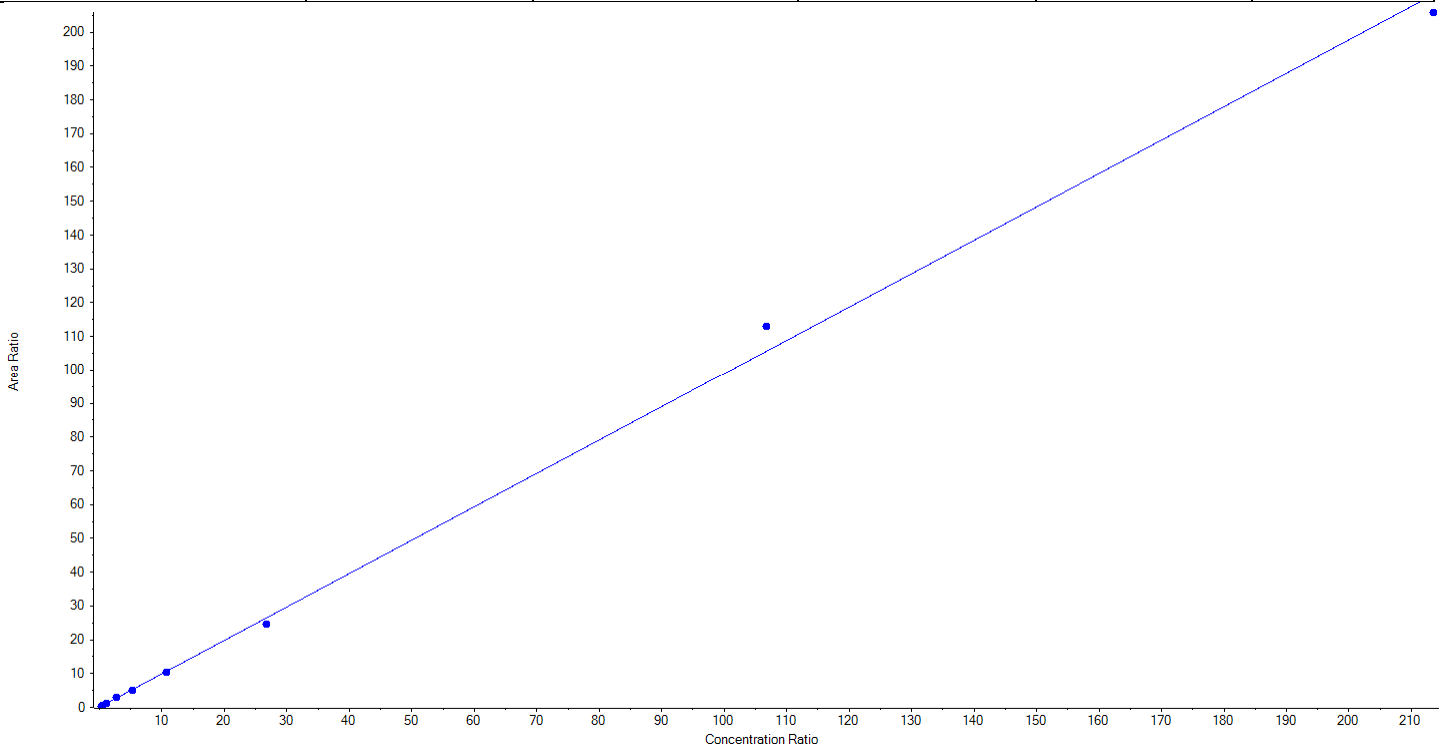


Analyte Name: PFHxS_2
Internal Standard: 13C3-PFHxS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.98845x + 0.05739$ ($r = 0.99882$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.25000	1 of 1	22.397565	88.7	N/A	N/A
50.50000	1 of 1	58.270442	115.4	N/A	N/A
101.00000	1 of 1	101.841220	100.8	N/A	N/A
252.50000	1 of 1	269.047901	106.6	N/A	N/A
505.00000	1 of 1	466.069235	92.3	N/A	N/A
1010.00000	1 of 1	994.137369	98.4	N/A	N/A
2525.00000	1 of 1	2355.552213	93.3	N/A	N/A
10100.00000	1 of 1	10809.826960	107.0	N/A	N/A
20200.00000	1 of 1	19692.107095	97.5	N/A	N/A

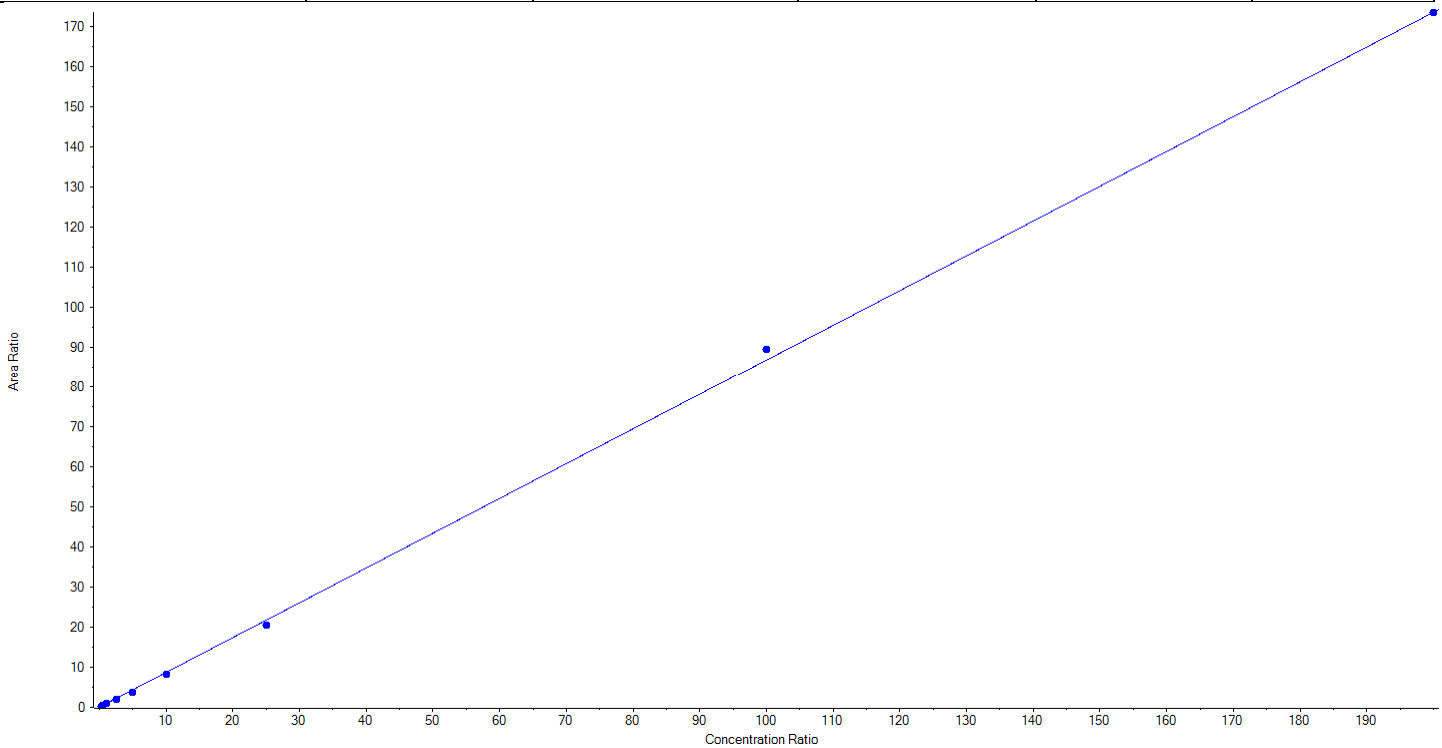


Analyte Name: PFOA_1
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.86795x + 0.06748$ ($r = 0.99934$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.124194	120.5	N/A	N/A
50.00000	1 of 1	59.354635	118.7	N/A	N/A
100.00000	1 of 1	100.374593	100.4	N/A	N/A
250.00000	1 of 1	214.159880	85.7	N/A	N/A
500.00000	1 of 1	414.748101	83.0	N/A	N/A
1000.00000	1 of 1	945.329057	94.5	N/A	N/A
2500.00000	1 of 1	2354.234208	94.2	N/A	N/A
10000.00000	1 of 1	10314.027698	103.1	N/A	N/A
20000.00000	1 of 1	19992.647633	100.0	N/A	N/A

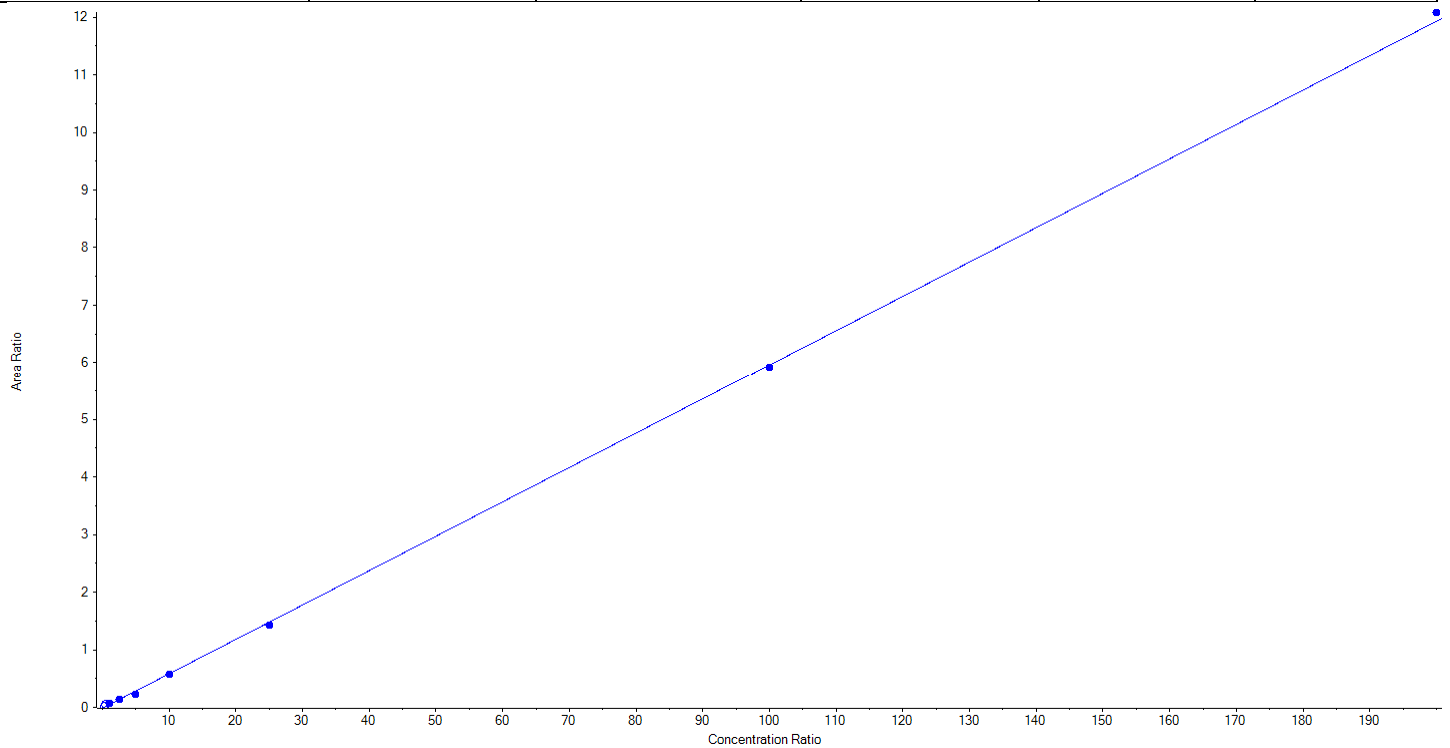


Analyte Name: PFOA_2
Internal Standard: 13C8-PFOA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.05972x + -0.01364$ ($r = 0.99945$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	125.427924	125.4	N/A	N/A
250.00000	1 of 1	248.569421	99.4	N/A	N/A
500.00000	1 of 1	398.190136	79.6	N/A	N/A
1000.00000	1 of 1	987.151776	98.7	N/A	N/A
2500.00000	1 of 1	2404.994229	96.2	N/A	N/A
10000.00000	1 of 1	9932.600203	99.3	N/A	N/A
20000.00000	1 of 1	20253.066310	101.3	N/A	N/A

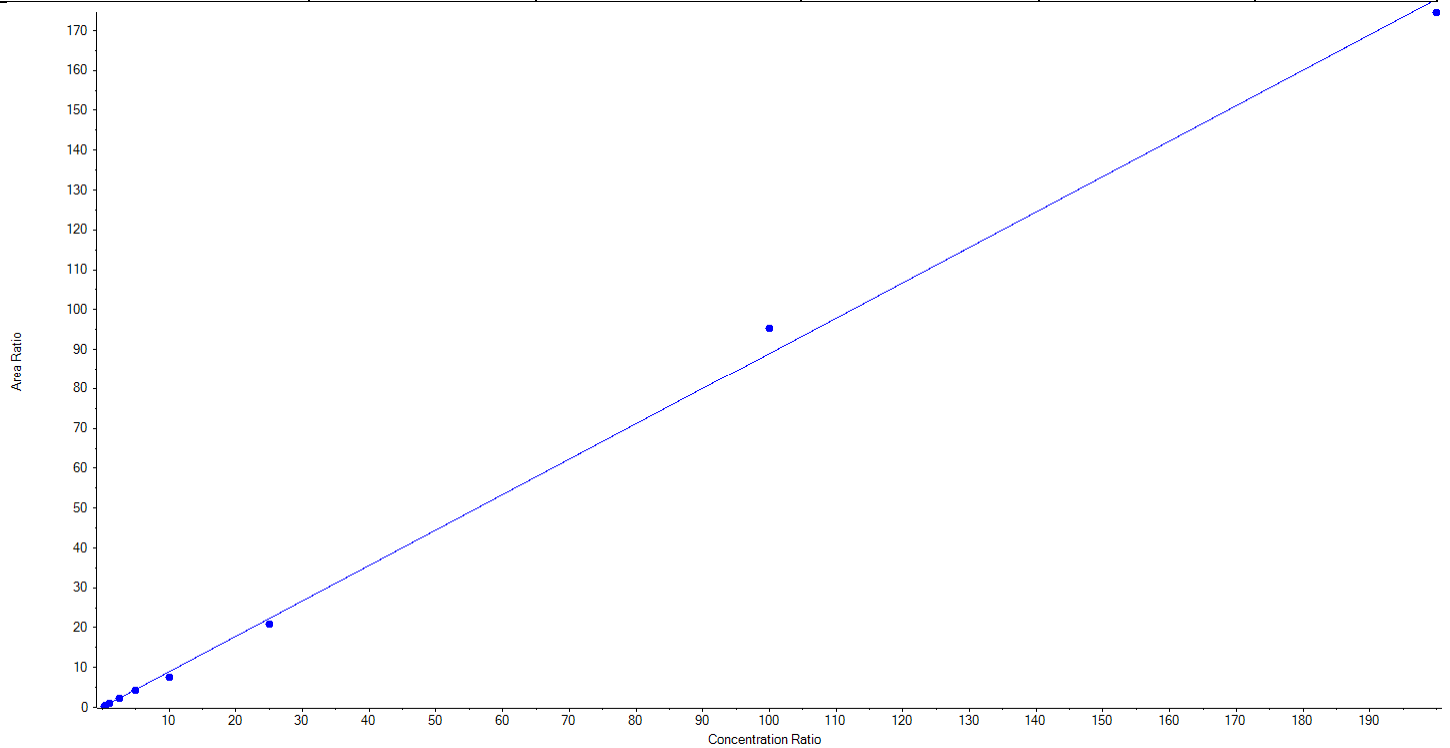


Analyte Name: PFNA_1
Internal Standard: 13C9-PFNA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.88897x + 0.05190$ ($r = 0.99865$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	31.135941	124.5	N/A	N/A
50.00000	1 of 1	51.831255	103.7	N/A	N/A
100.00000	1 of 1	95.441458	95.4	N/A	N/A
250.00000	1 of 1	246.912526	98.8	N/A	N/A
500.00000	1 of 1	464.101080	92.8	N/A	N/A
1000.00000	1 of 1	854.249474	85.4	N/A	N/A
2500.00000	1 of 1	2355.097628	94.2	N/A	N/A
10000.00000	1 of 1	10701.407079	107.0	N/A	N/A
20000.00000	1 of 1	19624.823558	98.1	N/A	N/A

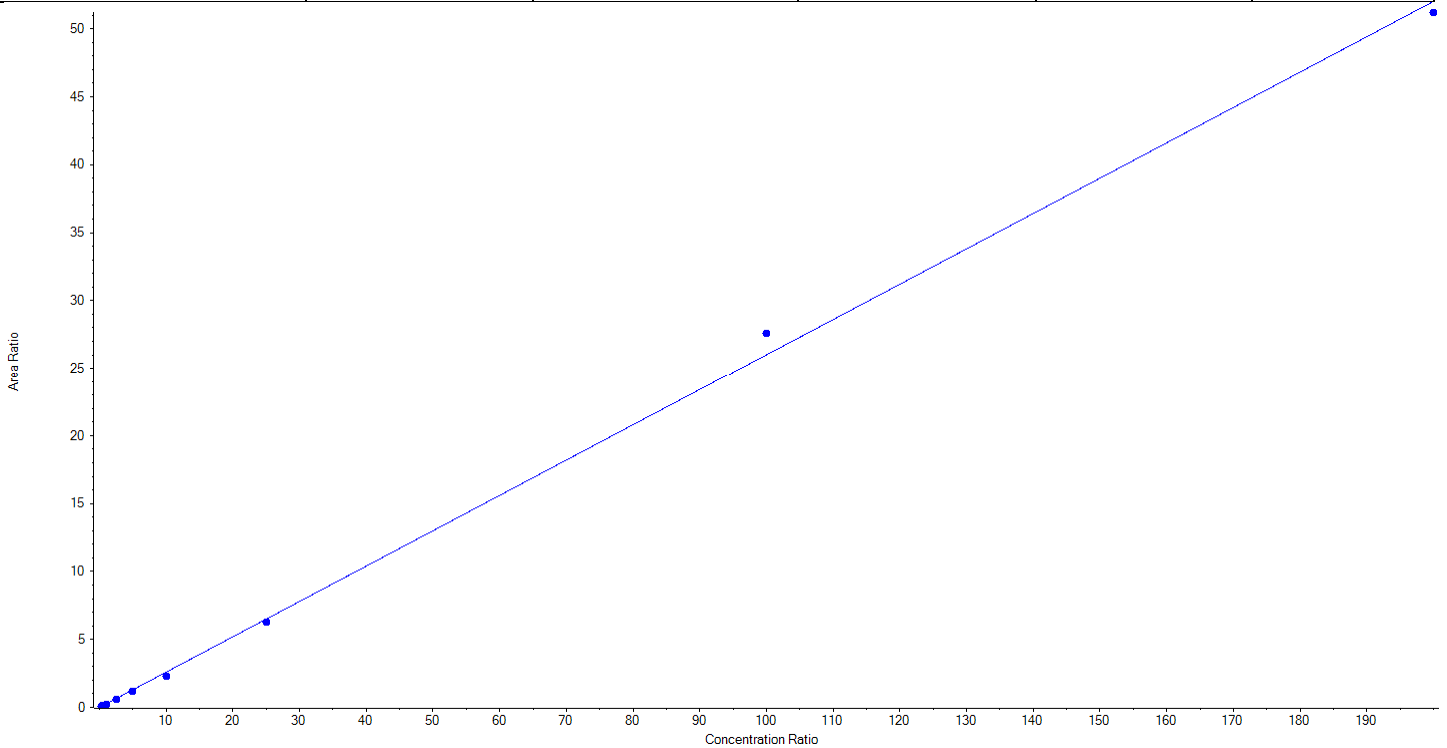


Analyte Name: PFNA_2
Internal Standard: 13C9-PFNA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.26013x + -0.00578$ ($r = 0.99897$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	30.853910	123.4	N/A	N/A
50.00000	1 of 1	54.312522	108.6	N/A	N/A
100.00000	1 of 1	95.663390	95.7	N/A	N/A
250.00000	1 of 1	233.271399	93.3	N/A	N/A
500.00000	1 of 1	458.661296	91.7	N/A	N/A
1000.00000	1 of 1	868.059048	86.8	N/A	N/A
2500.00000	1 of 1	2400.942236	96.0	N/A	N/A
10000.00000	1 of 1	10599.066368	106.0	N/A	N/A
20000.00000	1 of 1	19684.169831	98.4	N/A	N/A

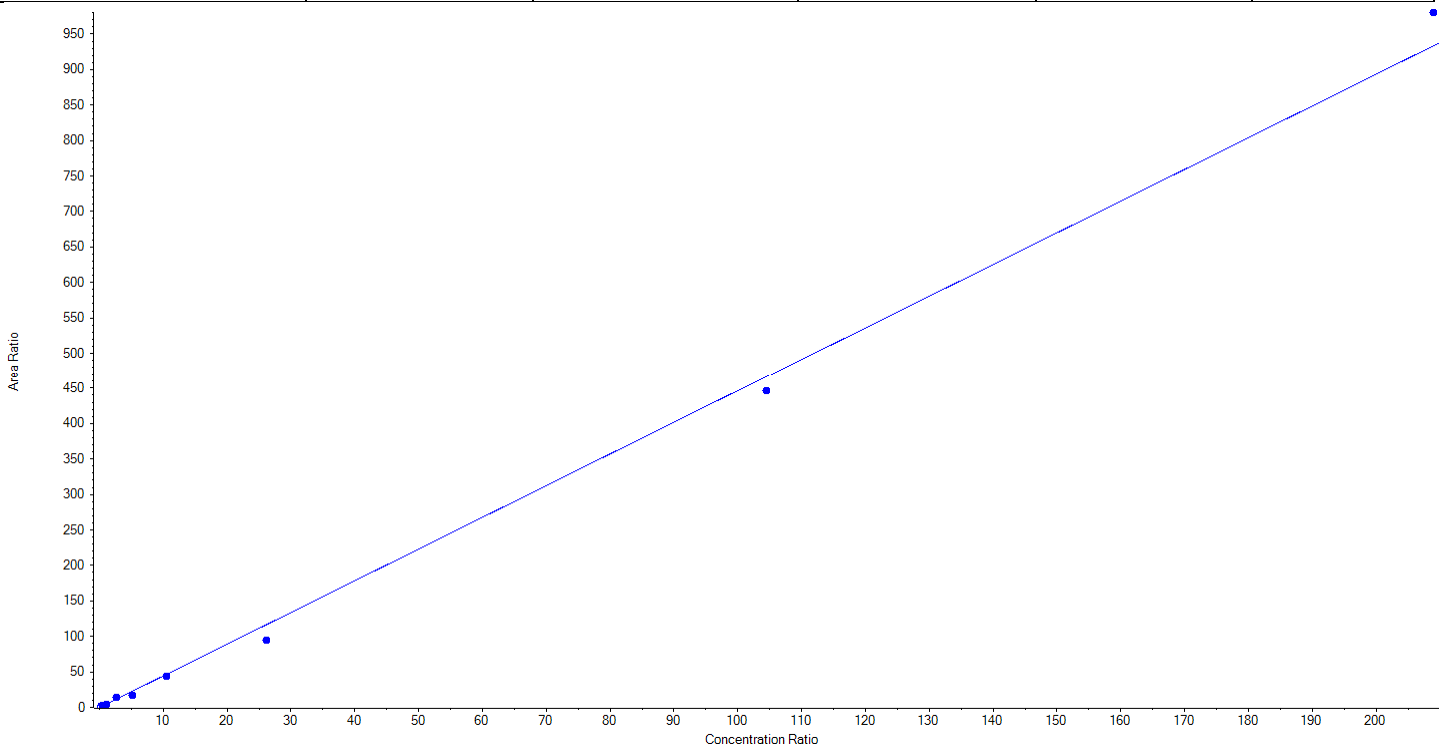


Analyte Name: PFOS_1
Internal Standard: 13C8-PFOS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 4.46854 x + -0.32806$ (r = 0.99701) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	61.259255	122.5	N/A	N/A
100.00000	1 of 1	106.671885	106.7	N/A	N/A
250.00000	1 of 1	294.562971	117.8	N/A	N/A
500.00000	1 of 1	373.378352	74.7	N/A	N/A
1000.00000	1 of 1	958.421303	95.8	N/A	N/A
2500.00000	1 of 1	2047.108968	81.9	N/A	N/A
10000.00000	1 of 1	9557.854024	95.6	N/A	N/A
20000.00000	1 of 1	21000.743243	105.0	N/A	N/A

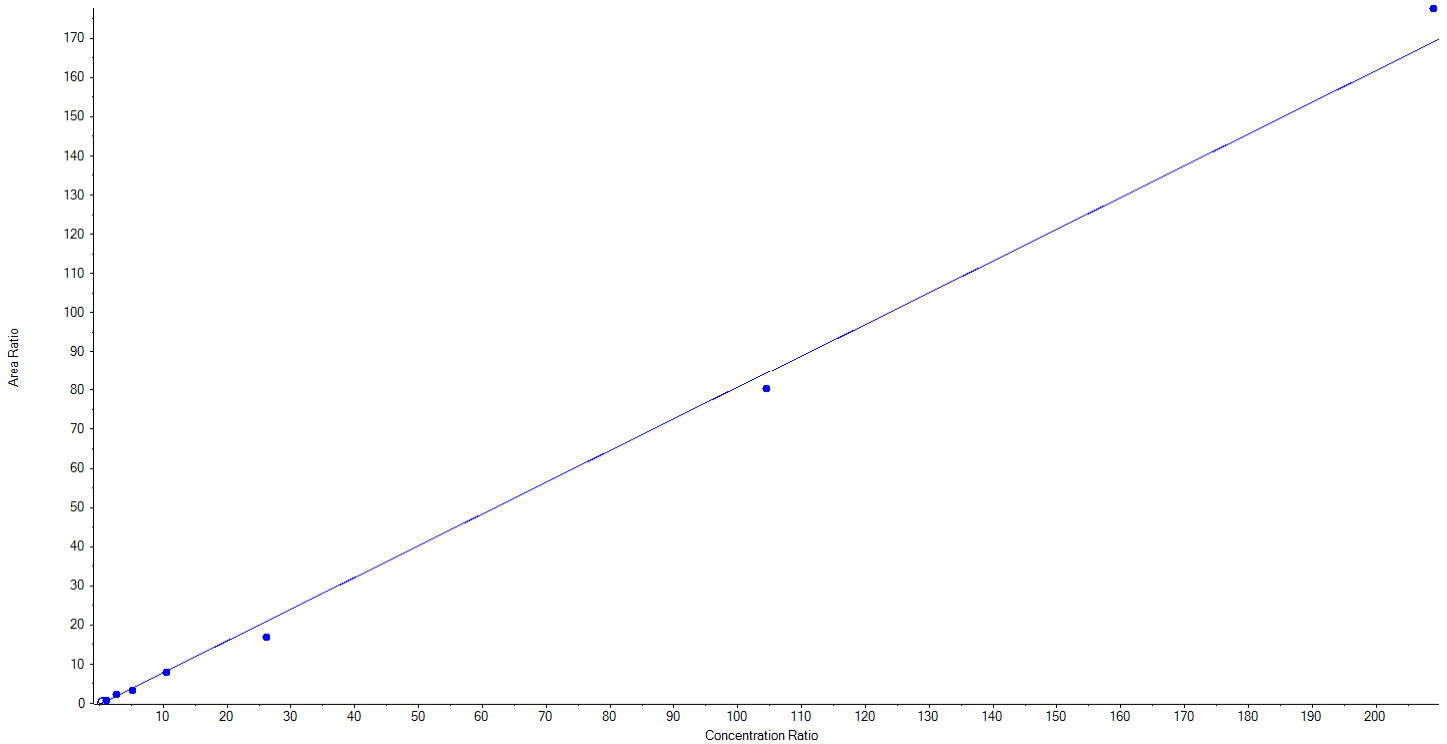


Analyte Name: PFOS_2
Internal Standard: 13C8-PFOS

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.81016x + -0.25109$ ($r = 0.99702$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	0 of 1	N/A	N/A	N/A	N/A
100.00000	1 of 1	117.551175	117.6	N/A	N/A
250.00000	1 of 1	295.943528	118.4	N/A	N/A
500.00000	1 of 1	437.015734	87.4	N/A	N/A
1000.00000	1 of 1	958.233277	95.8	N/A	N/A
2500.00000	1 of 1	2015.638374	80.6	N/A	N/A
10000.00000	1 of 1	9518.262901	95.2	N/A	N/A
20000.00000	1 of 1	21007.355010	105.0	N/A	N/A

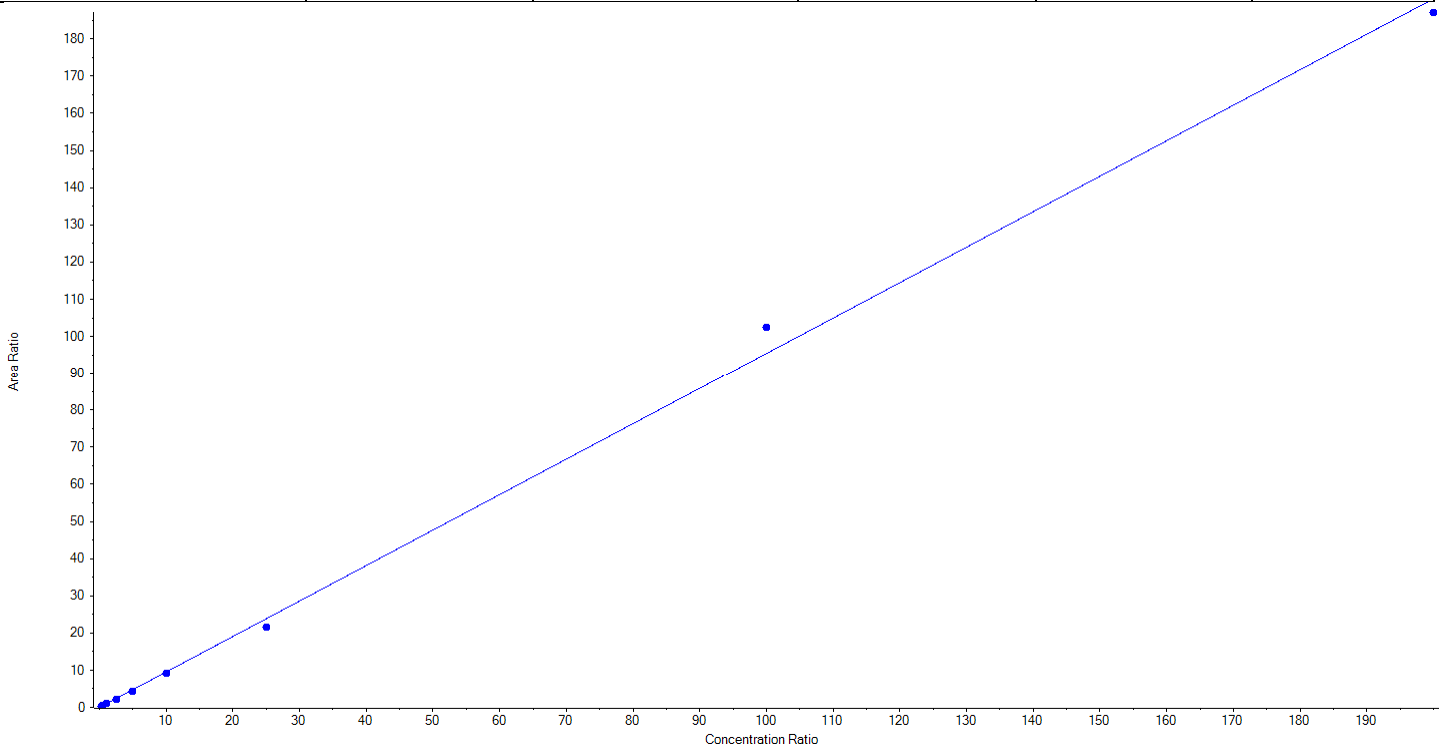


Analyte Name: PFDA_1
Internal Standard: 13C6-PFDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.95404 x + -0.01354$ ($r = 0.99858$) (weighting: $1 / x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	28.040609	112.2	N/A	N/A
50.00000	1 of 1	56.820399	113.6	N/A	N/A
100.00000	1 of 1	100.432158	100.4	N/A	N/A
250.00000	1 of 1	236.632413	94.7	N/A	N/A
500.00000	1 of 1	440.166212	88.0	N/A	N/A
1000.00000	1 of 1	949.920008	95.0	N/A	N/A
2500.00000	1 of 1	2267.160024	90.7	N/A	N/A
10000.00000	1 of 1	10734.171405	107.3	N/A	N/A
20000.00000	1 of 1	19611.656773	98.1	N/A	N/A

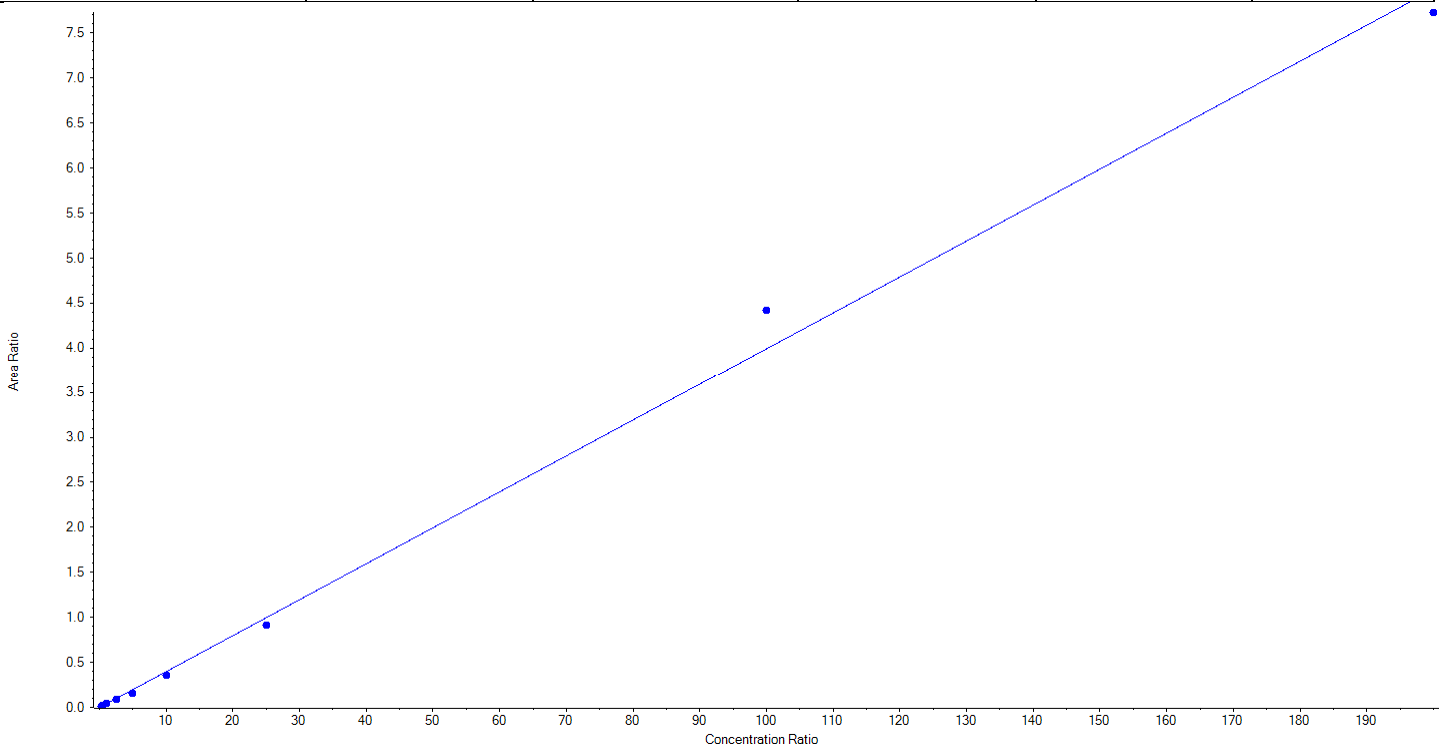


Analyte Name: PFDA_2
Internal Standard: 13C6-PFDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.03994x + -0.00220$ ($r = 0.99711$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	29.579582	118.3	N/A	N/A
50.00000	1 of 1	51.481084	103.0	N/A	N/A
100.00000	1 of 1	119.405501	119.4	N/A	N/A
250.00000	1 of 1	230.976769	92.4	N/A	N/A
500.00000	1 of 1	393.053118	78.6	N/A	N/A
1000.00000	1 of 1	894.428545	89.4	N/A	N/A
2500.00000	1 of 1	2285.723319	91.4	N/A	N/A
10000.00000	1 of 1	11067.824617	110.7	N/A	N/A
20000.00000	1 of 1	19352.527464	96.8	N/A	N/A

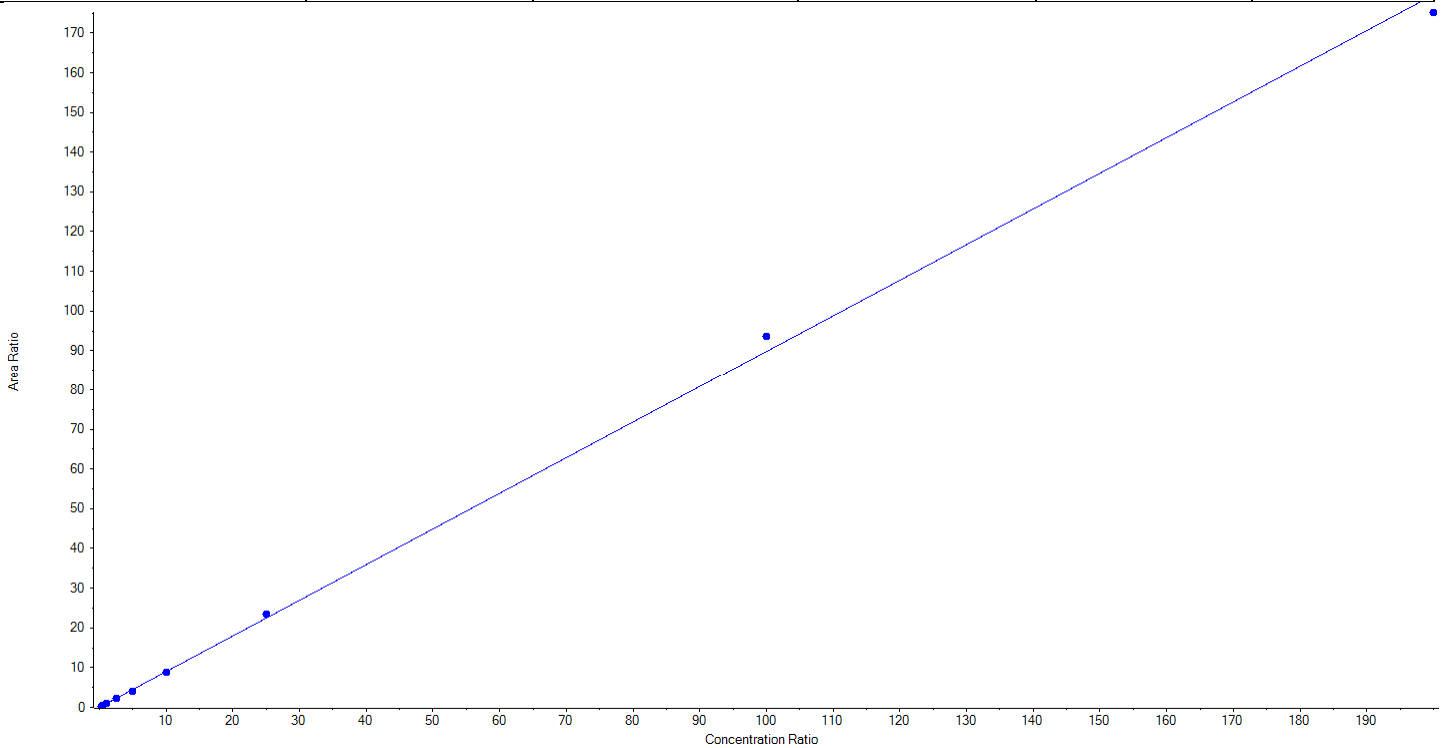


Analyte Name: PFUnA_1
Internal Standard: 13C7-PFUnA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.89775x + 0.02798$ ($r = 0.99934$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	27.809396	111.2	N/A	N/A
50.00000	1 of 1	46.031071	92.1	N/A	N/A
100.00000	1 of 1	105.355956	105.4	N/A	N/A
250.00000	1 of 1	238.674628	95.5	N/A	N/A
500.00000	1 of 1	450.845153	90.2	N/A	N/A
1000.00000	1 of 1	988.413322	98.8	N/A	N/A
2500.00000	1 of 1	2623.811311	105.0	N/A	N/A
10000.00000	1 of 1	10438.270677	104.4	N/A	N/A
20000.00000	1 of 1	19505.788484	97.5	N/A	N/A

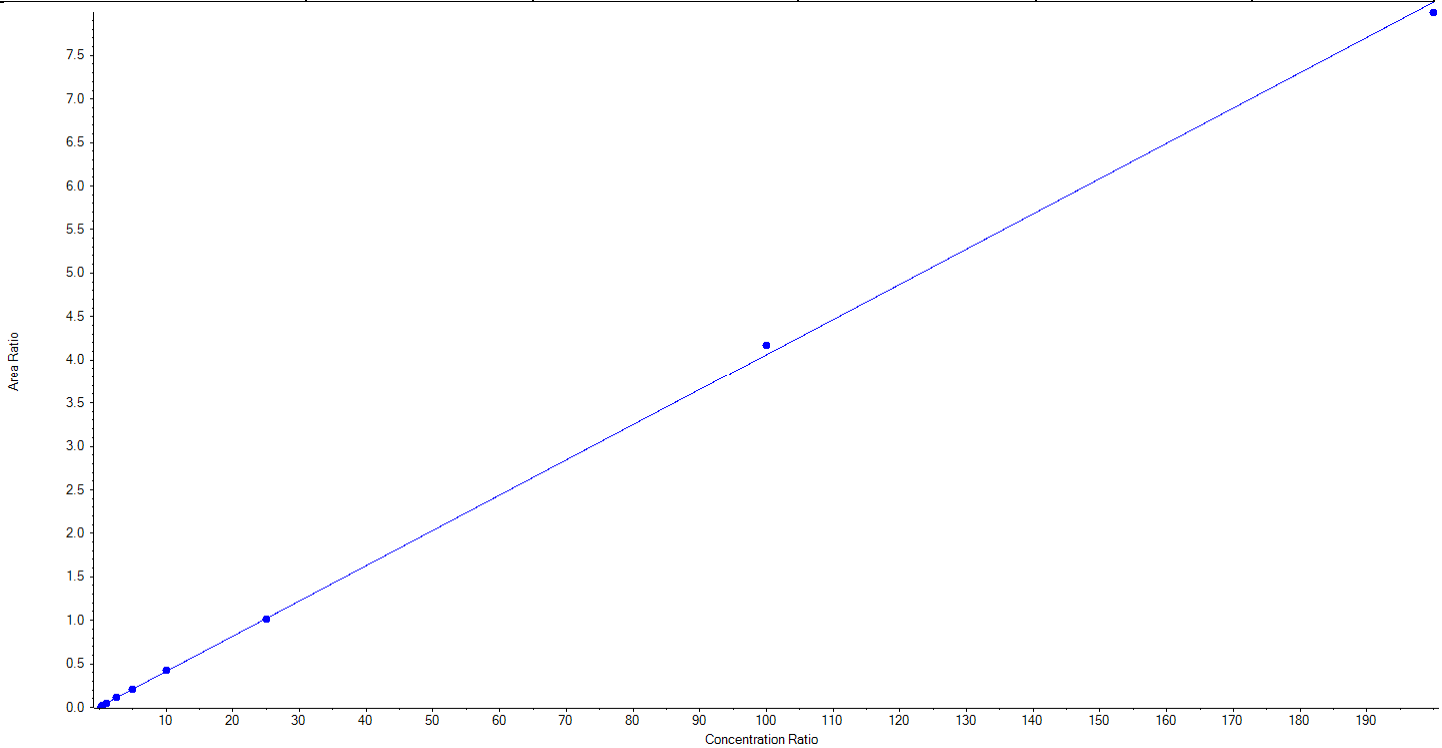


Analyte Name: PFUnA_2
Internal Standard: 13C7-PFUnA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04052 x + 0.00764$ (r = 0.99975) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	23.494341	94.0	N/A	N/A
50.00000	1 of 1	50.191532	100.4	N/A	N/A
100.00000	1 of 1	94.982408	95.0	N/A	N/A
250.00000	1 of 1	273.739324	109.5	N/A	N/A
500.00000	1 of 1	485.919754	97.2	N/A	N/A
1000.00000	1 of 1	1036.888823	103.7	N/A	N/A
2500.00000	1 of 1	2473.998299	99.0	N/A	N/A
10000.00000	1 of 1	10279.948544	102.8	N/A	N/A
20000.00000	1 of 1	19705.836976	98.5	N/A	N/A

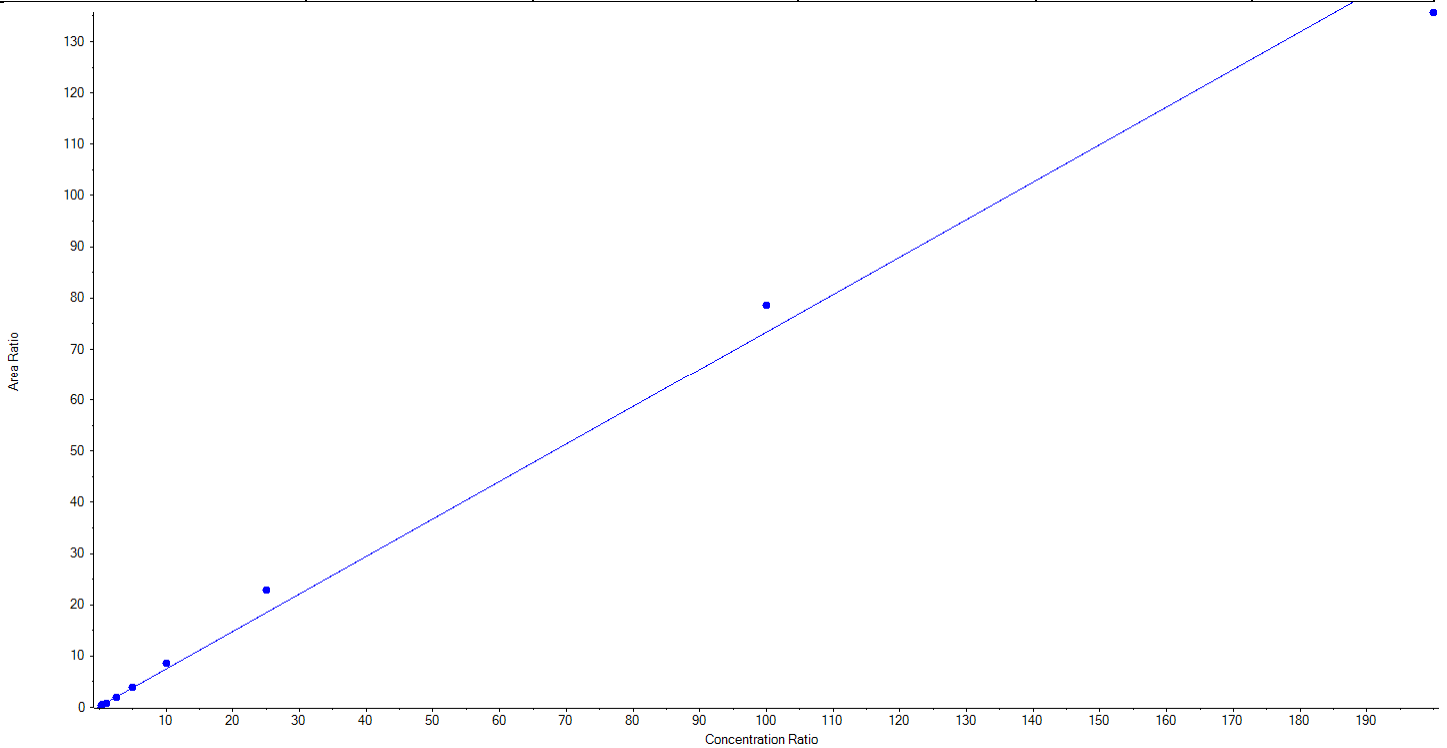


Analyte Name: PFDaA_1
Internal Standard: 13C2-PFDaA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.73180x + 0.16805$ ($r = 0.99494$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	18.585863	74.3	N/A	N/A
50.00000	1 of 1	43.934838	87.9	N/A	N/A
100.00000	1 of 1	96.867204	96.9	N/A	N/A
250.00000	1 of 1	241.211483	96.5	N/A	N/A
500.00000	1 of 1	522.164732	104.4	N/A	N/A
1000.00000	1 of 1	1157.206023	115.7	N/A	N/A
2500.00000	1 of 1	3113.816575	124.6	N/A	N/A
10000.00000	1 of 1	10714.559444	107.2	N/A	N/A
20000.00000	1 of 1	18516.653838	92.6	N/A	N/A

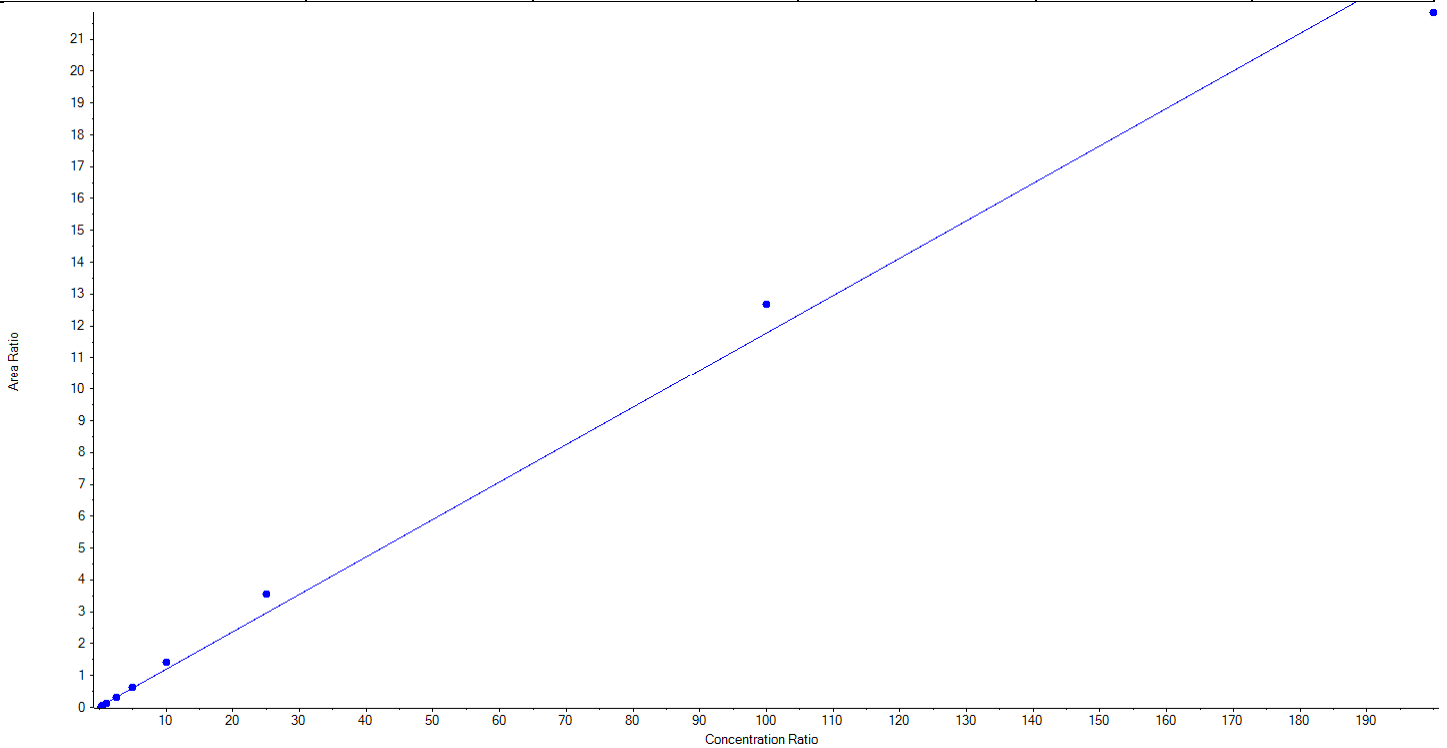


Analyte Name: PFDaA_2
Internal Standard: 13C2-PFDaA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.11755x + 0.02201$ (r = 0.99555) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.789022	83.2	N/A	N/A
50.00000	1 of 1	41.751139	83.5	N/A	N/A
100.00000	1 of 1	94.252859	94.3	N/A	N/A
250.00000	1 of 1	238.773328	95.5	N/A	N/A
500.00000	1 of 1	526.139502	105.2	N/A	N/A
1000.00000	1 of 1	1178.790809	117.9	N/A	N/A
2500.00000	1 of 1	3000.505564	120.0	N/A	N/A
10000.00000	1 of 1	10766.450030	107.7	N/A	N/A
20000.00000	1 of 1	18557.547746	92.8	N/A	N/A

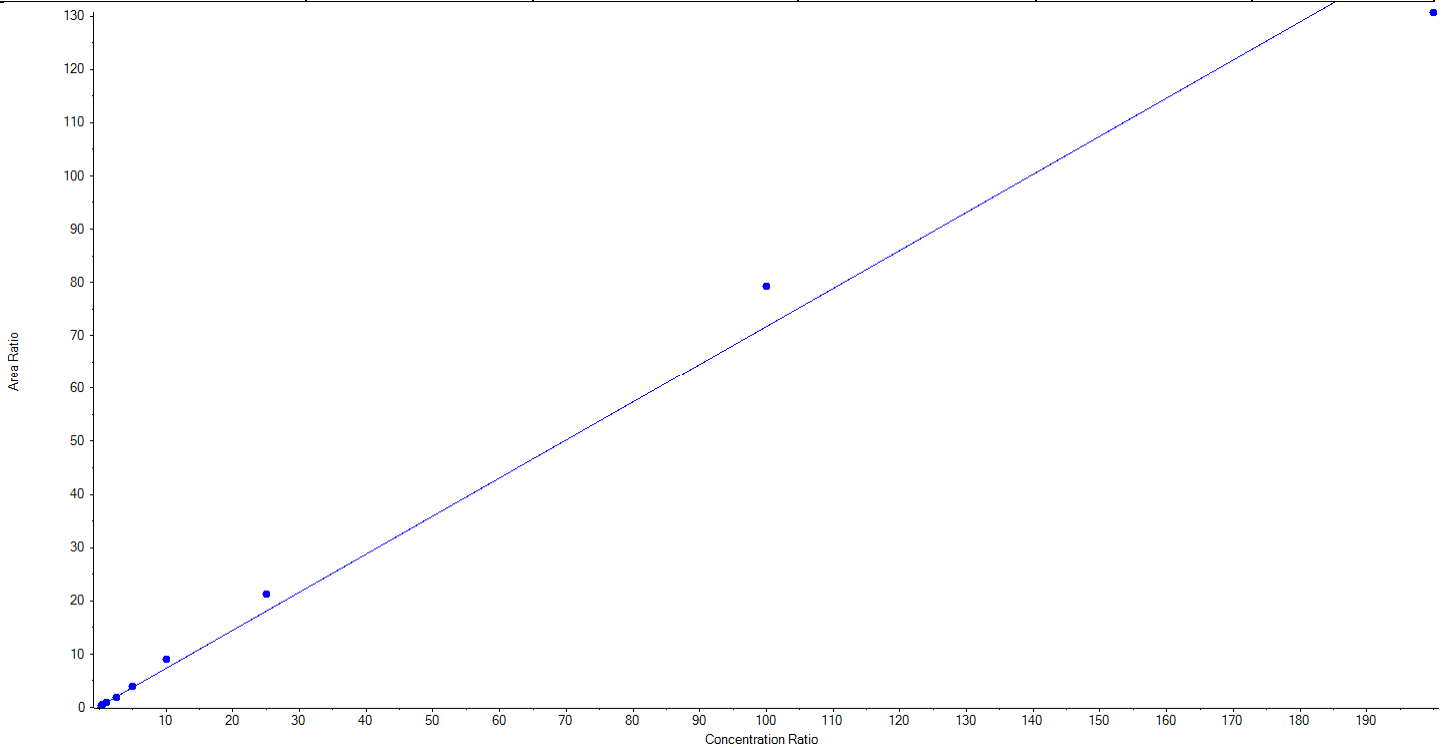


Analyte Name: PFTTrDA_1
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.71512x + 0.18881$ ($r = 0.99396$) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	18.037092	72.2	N/A	N/A
50.00000	1 of 1	41.435891	82.9	N/A	N/A
100.00000	1 of 1	98.499120	98.5	N/A	N/A
250.00000	1 of 1	245.482933	98.2	N/A	N/A
500.00000	1 of 1	526.942491	105.4	N/A	N/A
1000.00000	1 of 1	1228.445359	122.8	N/A	N/A
2500.00000	1 of 1	2954.091521	118.2	N/A	N/A
10000.00000	1 of 1	11066.106802	110.7	N/A	N/A
20000.00000	1 of 1	18245.958790	91.2	N/A	N/A

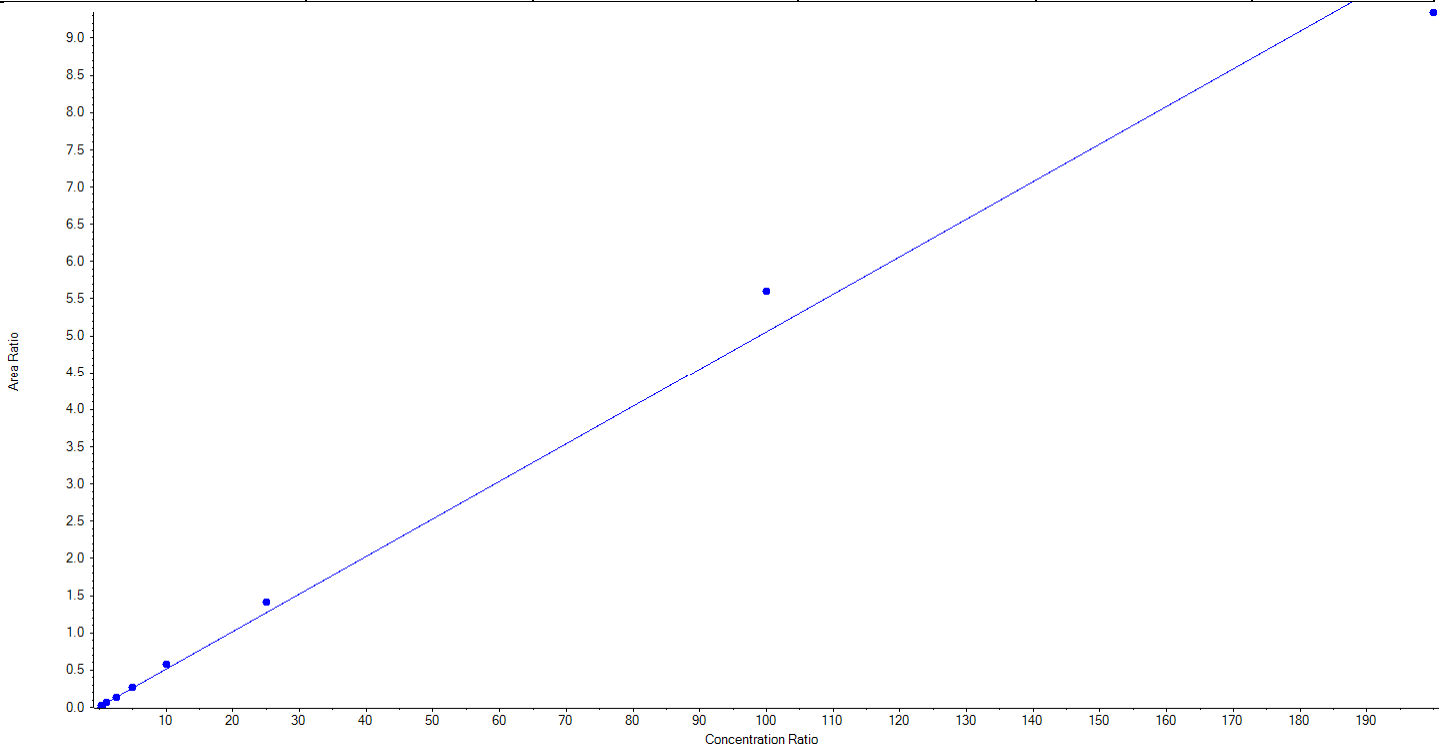


Analyte Name: PFTTrDA_2
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.05046 x + 0.00925$ (r = 0.99572) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	24.482066	97.9	N/A	N/A
50.00000	1 of 1	35.219009	70.4	N/A	N/A
100.00000	1 of 1	103.876978	103.9	N/A	N/A
250.00000	1 of 1	244.481018	97.8	N/A	N/A
500.00000	1 of 1	506.816096	101.4	N/A	N/A
1000.00000	1 of 1	1135.695566	113.6	N/A	N/A
2500.00000	1 of 1	2792.612745	111.7	N/A	N/A
10000.00000	1 of 1	11083.593179	110.8	N/A	N/A
20000.00000	1 of 1	18498.223344	92.5	N/A	N/A

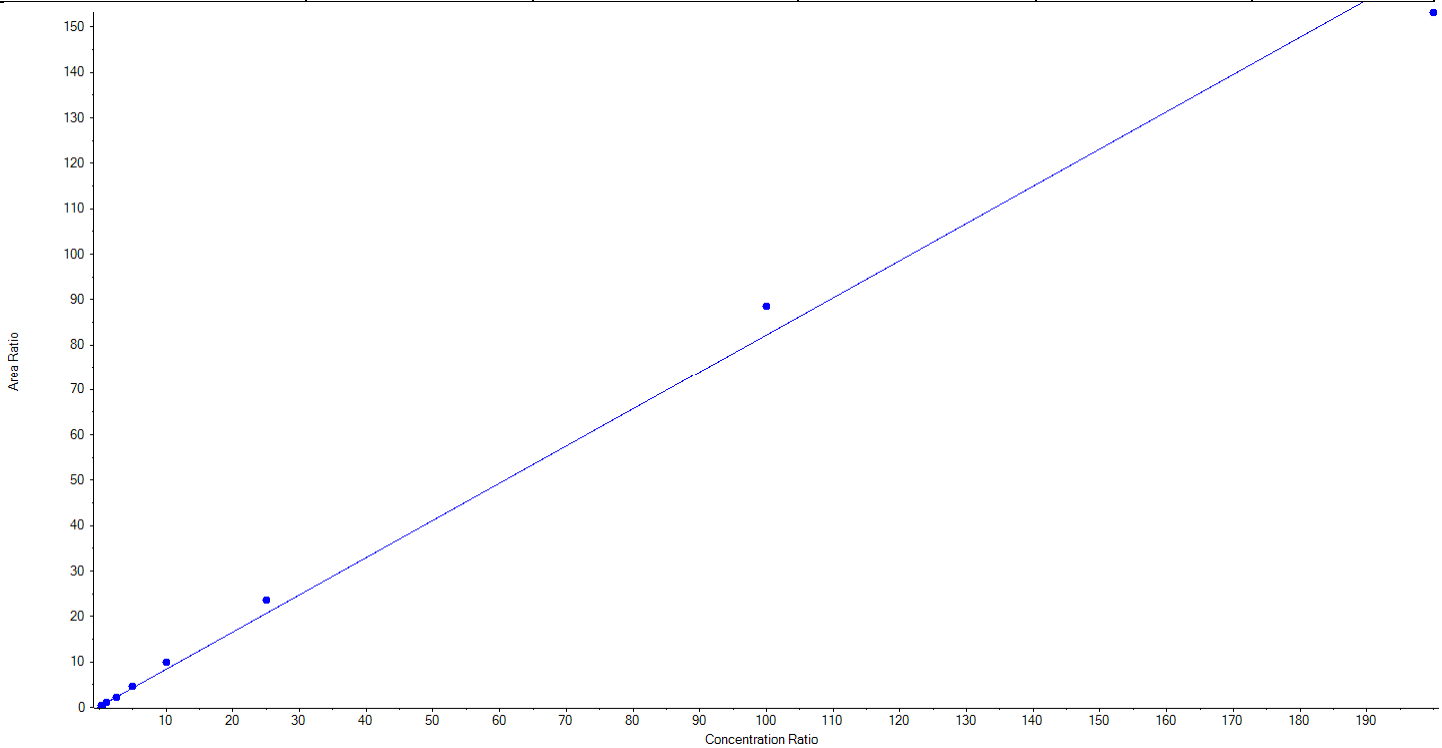


Analyte Name: PFTeDA_1
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.81976x + 0.18966$ ($r = 0.99638$) (weighting: $1/x$)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	20.698509	82.8	N/A	N/A
50.00000	1 of 1	37.374163	74.8	N/A	N/A
100.00000	1 of 1	100.483978	100.5	N/A	N/A
250.00000	1 of 1	253.641545	101.5	N/A	N/A
500.00000	1 of 1	530.011524	106.0	N/A	N/A
1000.00000	1 of 1	1190.575893	119.1	N/A	N/A
2500.00000	1 of 1	2861.500365	114.5	N/A	N/A
10000.00000	1 of 1	10768.712330	107.7	N/A	N/A
20000.00000	1 of 1	18662.001693	93.3	N/A	N/A

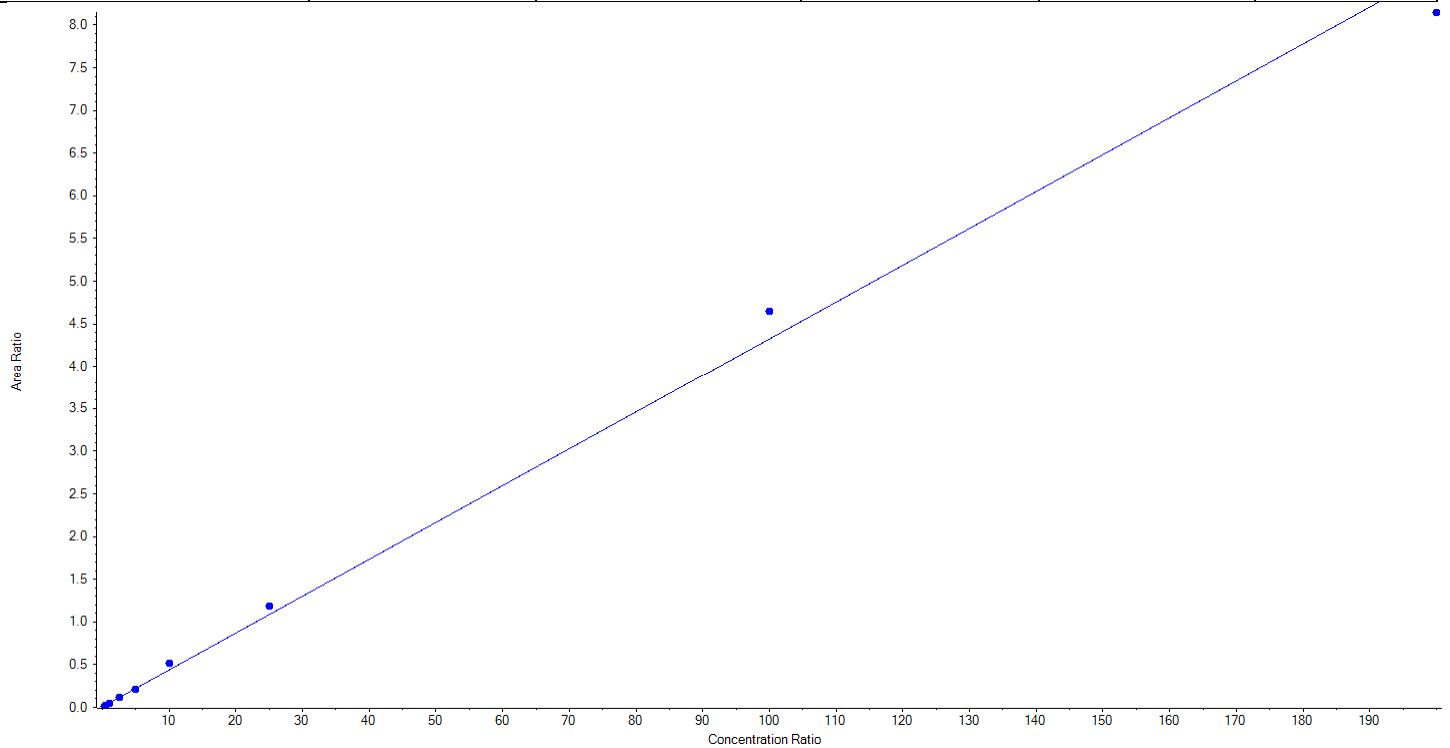


Analyte Name: PFTeDA_2
Internal Standard: 13C2-PFTeDA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04318x + 0.00691$ (r = 0.99730) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	23.171072	92.7	N/A	N/A
50.00000	1 of 1	36.229290	72.5	N/A	N/A
100.00000	1 of 1	104.692473	104.7	N/A	N/A
250.00000	1 of 1	265.266327	106.1	N/A	N/A
500.00000	1 of 1	477.858637	95.6	N/A	N/A
1000.00000	1 of 1	1172.163483	117.2	N/A	N/A
2500.00000	1 of 1	2735.811572	109.4	N/A	N/A
10000.00000	1 of 1	10757.710831	107.6	N/A	N/A
20000.00000	1 of 1	18852.096314	94.3	N/A	N/A

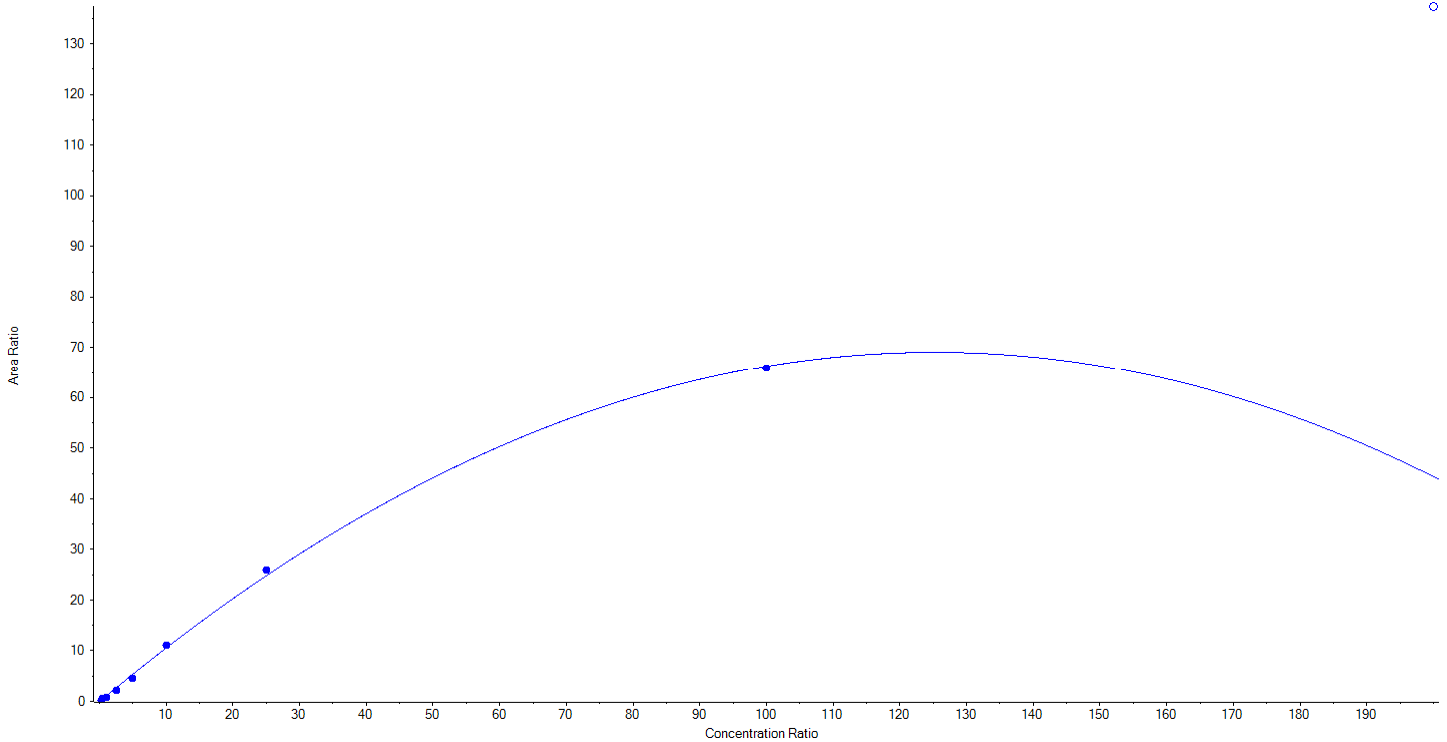


Analyte Name: NMeFOSAA_1
Internal Standard: d3-MeFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = -0.00441 x^2 + 1.10454 x + -0.06114$ (r = 0.99784) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	32.169726	128.7	N/A	N/A
50.00000	1 of 1	55.645104	111.3	N/A	N/A
100.00000	1 of 1	82.449873	82.5	N/A	N/A
250.00000	1 of 1	211.355806	84.5	N/A	N/A
500.00000	1 of 1	420.344353	84.1	N/A	N/A
1000.00000	1 of 1	1046.700488	104.7	N/A	N/A
2500.00000	1 of 1	2627.097605	105.1	N/A	N/A
10000.00000	1 of 1	9880.284792	98.8	N/A	N/A
20000.00000	0 of 1	N/A	N/A	N/A	N/A

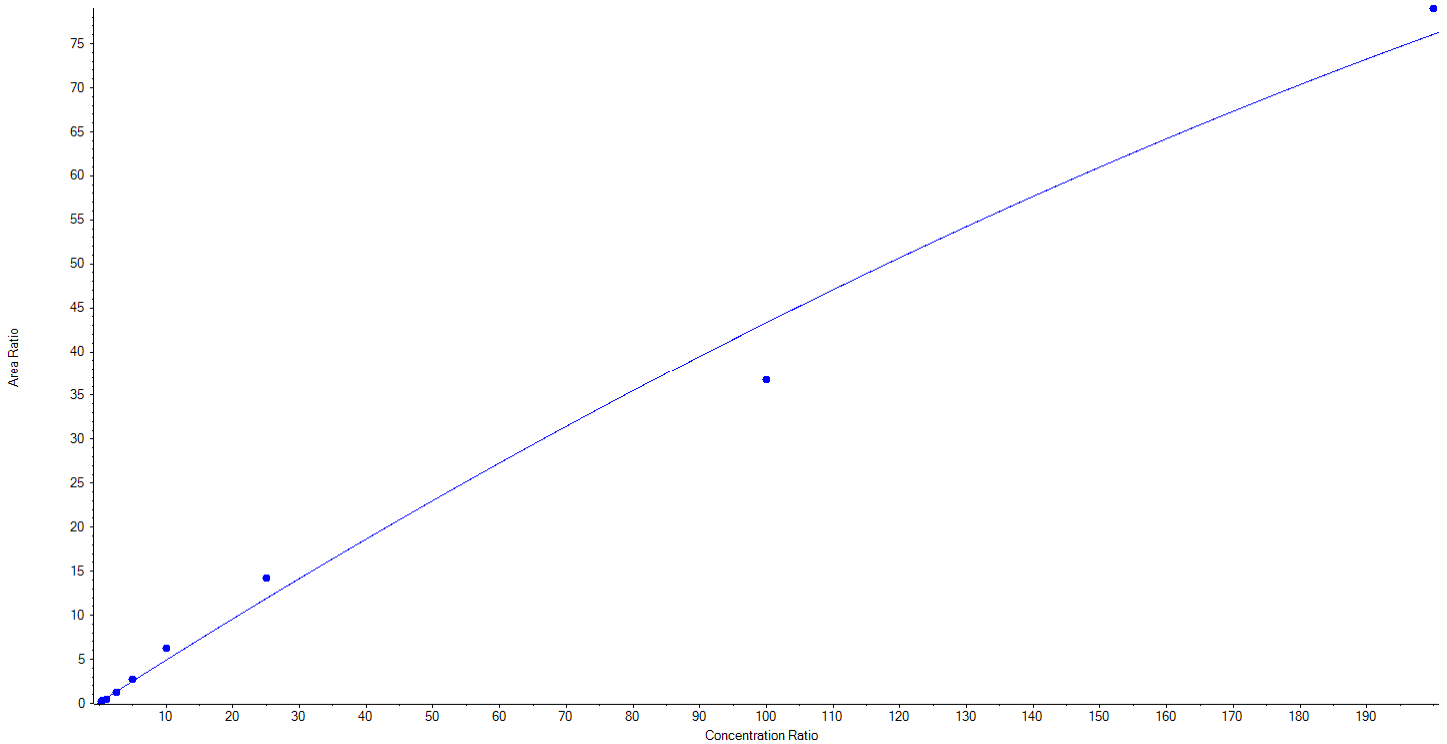


Analyte Name: NMeFOSAA_2
Internal Standard: d3-MeFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = -5.23136e-4 x^2 + 0.48430 x + 0.12252$ (r = 0.99174) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	27.650834	110.6	N/A	N/A
50.00000	1 of 1	40.640841	81.3	N/A	N/A
100.00000	1 of 1	70.096948	70.1	N/A	N/A
250.00000	1 of 1	229.533991	91.8	N/A	N/A
500.00000	1 of 1	546.889443	109.4	N/A	N/A
1000.00000	1 of 1	1285.828032	128.6	N/A	N/A
2500.00000	1 of 1	3019.444766	120.8	N/A	N/A
10000.00000	1 of 1	8302.470284	83.0	N/A	N/A
20000.00000	1 of 1	21088.210110	105.4	N/A	N/A

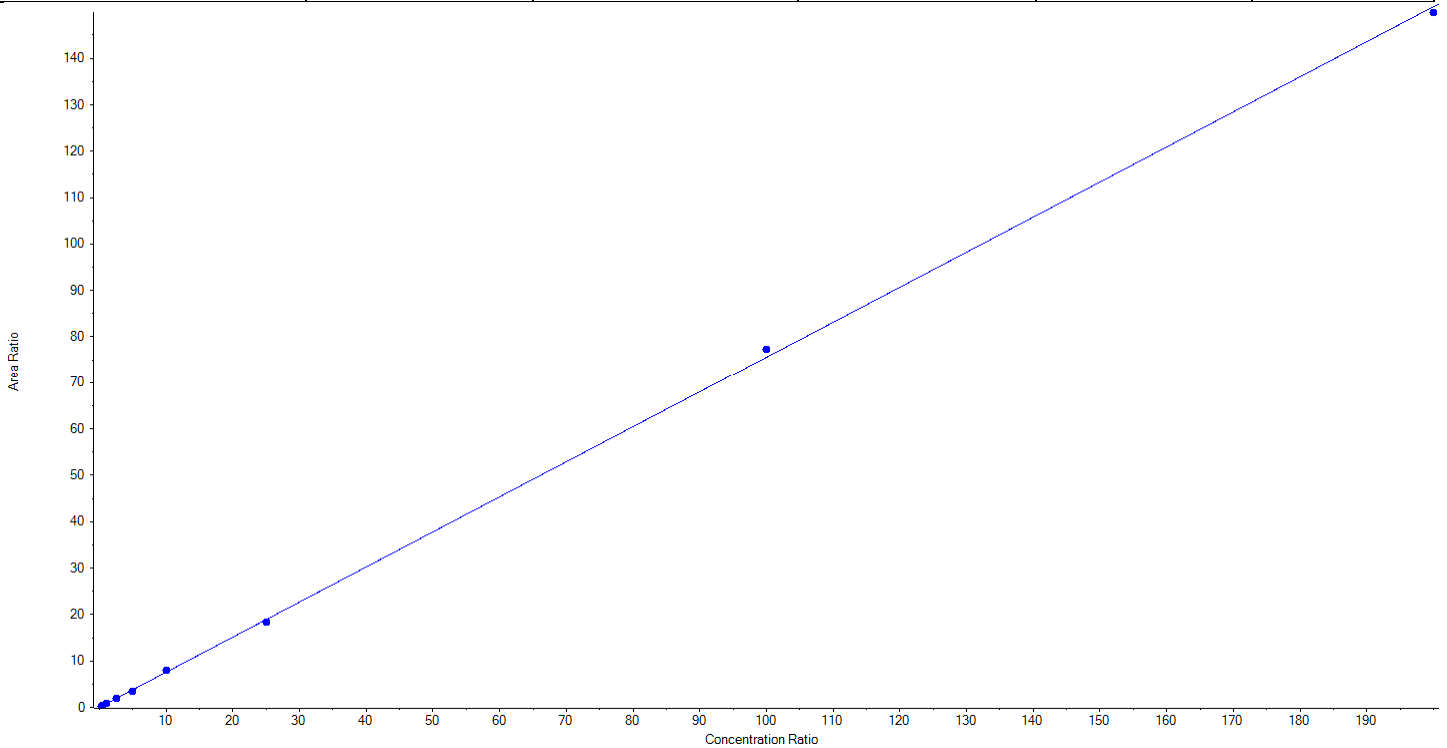


Analyte Name: NEtFOSAA_1
Internal Standard: d5-EtFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.75542x + 0.03121$ (r = 0.99979) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	1 of 1	25.089843	100.4	N/A	N/A
50.00000	1 of 1	50.987744	102.0	N/A	N/A
100.00000	1 of 1	105.048487	105.1	N/A	N/A
250.00000	1 of 1	241.694137	96.7	N/A	N/A
500.00000	1 of 1	462.018768	92.4	N/A	N/A
1000.00000	1 of 1	1047.054598	104.7	N/A	N/A
2500.00000	1 of 1	2435.103646	97.4	N/A	N/A
10000.00000	1 of 1	10227.125206	102.3	N/A	N/A
20000.00000	1 of 1	19830.877572	99.2	N/A	N/A

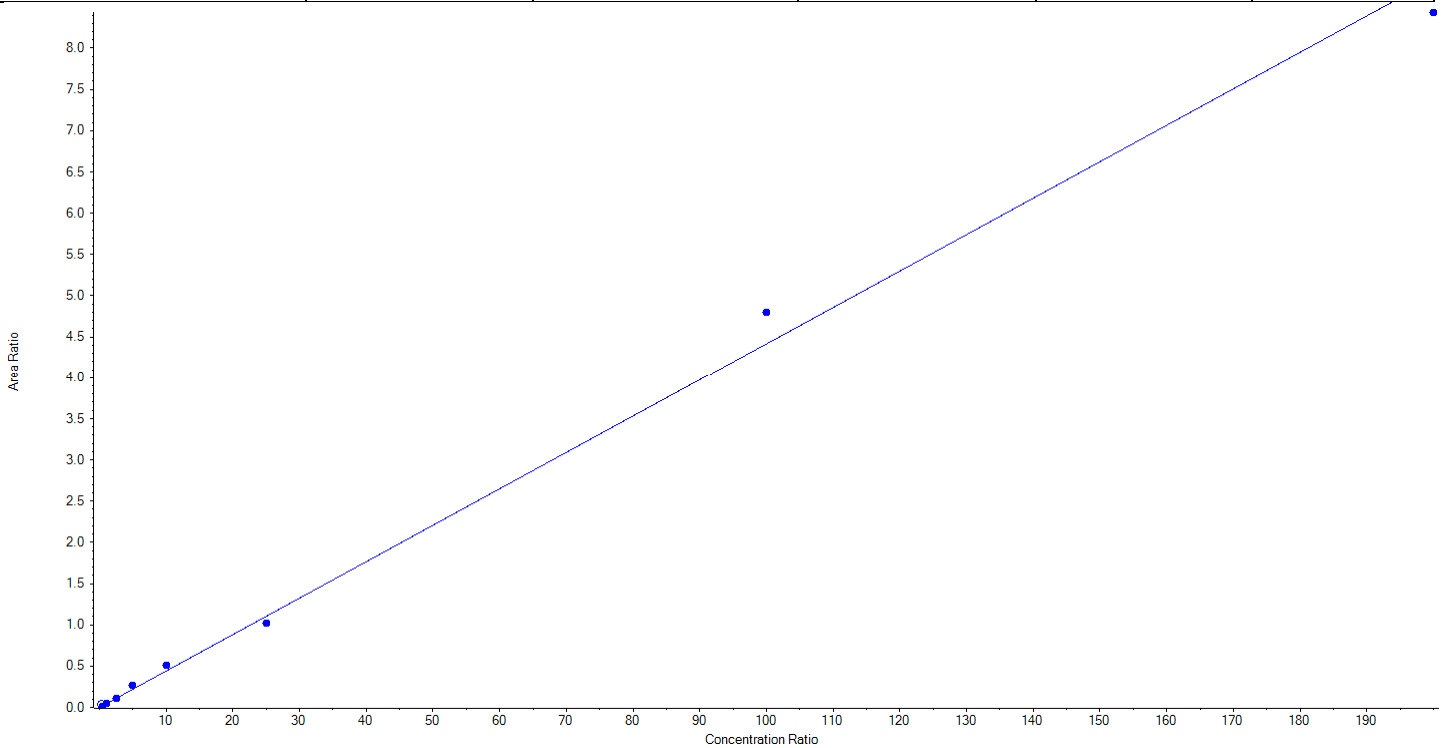


Analyte Name: NEtFOSAA_2
Internal Standard: d5-EtFOSAA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.04416x + -5.94973e-4$ (r = 0.99724) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	35.851083	71.7	N/A	N/A
100.00000	1 of 1	100.927486	100.9	N/A	N/A
250.00000	1 of 1	237.021437	94.8	N/A	N/A
500.00000	1 of 1	606.268765	121.3	N/A	N/A
1000.00000	1 of 1	1148.398097	114.8	N/A	N/A
2500.00000	1 of 1	2307.175978	92.3	N/A	N/A
10000.00000	1 of 1	10871.876953	108.7	N/A	N/A
20000.00000	1 of 1	19092.480200	95.5	N/A	N/A

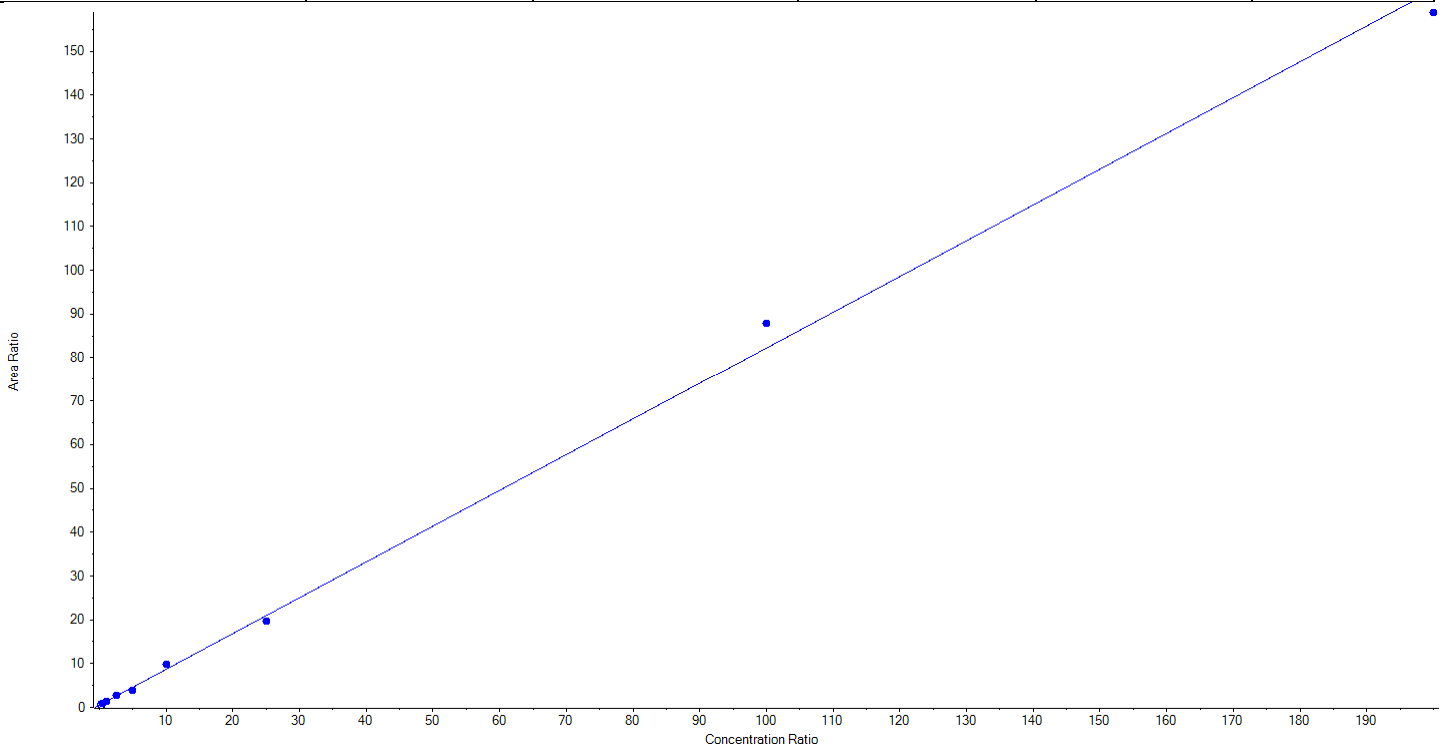


Analyte Name: PFBA
Internal Standard: 13C4-PFBA

Data File	18-0216.wiff	Result Table	18-0216_BASE
Acquisition Date	3/29/2018 7:35:56 PM	Algorithm Used	MQ4
Acquisition Method	SCIEX_1.dam	Instrument Name	QTRAP 5500
Project	N/A		

Regression Equation: $y = 0.81707 x + 0.52307$ (r = 0.99836) (weighting: 1 / x)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
25.00000	0 of 1	N/A	N/A	N/A	N/A
50.00000	1 of 1	44.113279	88.2	N/A	N/A
100.00000	1 of 1	112.419718	112.4	N/A	N/A
250.00000	1 of 1	258.858121	103.5	N/A	N/A
500.00000	1 of 1	423.629329	84.7	N/A	N/A
1000.00000	1 of 1	1129.039886	112.9	N/A	N/A
2500.00000	1 of 1	2357.771243	94.3	N/A	N/A
10000.00000	1 of 1	10699.785937	107.0	N/A	N/A
20000.00000	1 of 1	19374.382488	96.9	N/A	N/A



DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC	RES_META_ID
SOUTHEAST	GULFPORT_NCBC	18-0216							N6247016D9008	JM08	TETRA TECH, INC.	06GW15FRB0318	Water for QC samples	QC Sample	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0216							N6247016D9008	JM08	TETRA TECH, INC.	06GW09FRB0318	Water for QC samples	QC Sample	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00
SOUTHEAST	GULFPORT_NCBC	18-0216							N6247016D9008	JM08	TETRA TECH, INC.	06GW14FRB0318	Water for QC samples	QC Sample	17-Mar-18	PFAS_QSM5.1	Perfluoroalkyl Compounds	20190225075346.00