



**Groundwater Sample Results,  
Level 2 Laboratory Report, Level 4 Laboratory Report,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Report, SDG 18-0588**

*Naval Air Station Point Mugu  
Point Mugu, California*

July 2019

**CTO-4164 Naval Base Ventura County, California**  
**Project No 100110125-01**  
**PFAS by DoD QSM 5.1 Table B-15**  
*AQ, GW*  
*Batch 18-0588*  
*Package DP-18-0294*

Submitted to:  
CH2M  
1100 NE Circle Blvd Suite 300  
Corvallis, OR 97330 USA

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

***BATTELLE***

**It can be done**






**CTO-4164 Naval Base Ventura County, California**  
**Project No 100110125-01**  
**PFAS by DoD QSM 5.1 Table B-15**  
*AQ, GW*  
*Batch 18-0588*  
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Submitted to:  
CH2M  
1100 NE Circle Blvd Suite 300  
Corvallis, OR 97330 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:		Lauren Griffith 2018.10.25 10:02:30 -04'00'
QC Chemist Approval:		Digitally signed by devinec@battelle.org DN: cn=devinec@battelle.org Date: 2018.10.26 14:18:06 -04'00'
Project Manager Approval:		Digitally signed by Jonathan Thorn Date: 2018.10.26 17:54:09 -04'00'



**CTO-4164 Naval Base Ventura County, California**  
**Project No 100110125-01**  
**PFAS by DoD QSM 5.1 Table B-15**

*SD*

*Batch 18-0588*


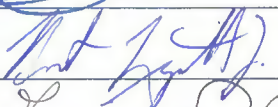
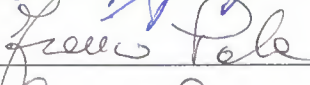





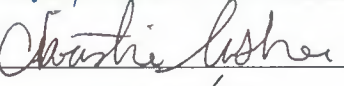

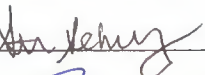

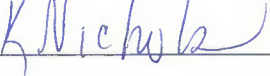

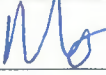

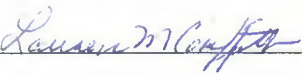
*Package DP-18-0294*

<b>1</b>	<b><i>Miscellaneous Documentation</i></b> Case Narrative, Laboratory Accreditations.	<b>1</b>
<b>2</b>	<b><i>Chain of Custody Records</i></b> Sample Receipt Records	<b>11</b>
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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 Schumitz		DNS	4/4/18
Carol Ann McManis		CM	4/4/2018
Rich Rostucci		RR	4/4/2018
Michael Mena		MM	4/4/2018
Christie Usher		CU	4/4/18
Kevin Matroney		KM	4/4/18
Stephanie Schmitz		SAS	4/4/18
Jordan Tower		JT	4/4/18
KRISTEN NICHOLS		KN	4/4/18
Quimiao H Brown		CB	4/4/18
Matt Schumitz		MS	4-4-18
Sam Guimaraes		SG	4-4-18
Lauren Griffith		LMG	4.4.18

## Signature Page

Battelle 2018 (2 of 2)  
Signature Page

Name (Printed)	Signature	Initials	Date
KAVITHA DASU		KD	04/04/18
Kayla Lamarre		KAL	04/04/18
Weidong Li		W.L	04/04/18
Tracy W Stender		TWS	04/04/18
Ellyn M Fitch		EF	12-April-2018
Gail DeRuzzo		GD	4/18/18
Zachary Willenberg		Z/W	4/20/18

### Sample Summary

Client: CH2M

SDG: 18-0588

Project/Site: Naval Base Ventura County

CTO: 4164

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
CR900PB-FS	Procedural Blank	WATER	10/5/2018	10/5/2018
CR901LCS-FS	Laboratory Control Sample	WATER	10/5/2018	10/5/2018
J8455-FS	VC-SO-FB07-09262018	AQ	9/26/2018	9/28/2018
J8456-FS	VC-SO-EB07-09262018	AQ	9/26/2018	9/28/2018
J8457-FS	VC-MS09-DW01-0918	GW	9/26/2018	9/28/2018
J8458-FS	VC-MS09-DW02-0918	GW	9/26/2018	9/28/2018
J8459-FS	VC-MS09-DW03-0918	GW	9/26/2018	9/28/2018
J8460-FS	VC-MS09-DW04-0918	GW	9/26/2018	9/28/2018
J8461-FS	VC-MS09-DW04P-0918	GW	9/26/2018	9/28/2018
J8462-FS	VC-MS09-DW05-0918	GW	9/26/2018	9/28/2018
J8463MS-FS	VC-MS09-DW05-0918-MS	AQ	9/26/2018	9/28/2018
J8464MSD-FS	VC-MS09-DW05-0918-MSD	AQ	9/26/2018	9/28/2018
J8477-FS	VC-PM367-DW01-0918	GW	9/27/2018	9/28/2018
J8478-FS	VC-PM367-DW02-0918	GW	9/27/2018	9/28/2018
J8479-FS	VC-PM367-DW03-0918	GW	9/27/2018	9/28/2018
J8480-FS	VC-PM367-DW03P-0918	GW	9/27/2018	9/28/2018
J8481-FS	VC-PM367-DW04-0918	GW	9/27/2018	9/28/2018
J8482-FS	VC-AQ-FB08-09272018	AQ	9/27/2018	9/28/2018
J8483-FS	VC-AQ-EB08-09272018	AQ	9/27/2018	9/28/2018

# Miscellaneous Documentation

**QA/QC Summary**  
**Batch 18-0588**

Project:	CTO-4164 Naval Base Ventura County, California
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	GW, AQ
Data Set:	DP-18-0294
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
9/27/2018	9/28/2018	0.7 and 0.4
Corrective Actions	Minor discrepancies between the COC and the sample containers were corrected by the Project Chemist, email clarifying IDs is included with the sample custody records.	
Sample Storage	The samples were stored refrigerated until extraction.	
Related samples	NA	

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 <sub>3</sub> in methanol. Extracts were concentrated to dryness under nitrogen with a water bath set between 35 °C and 45 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.
Prep comments	All samples were pre-screened prior to initial extraction. Based on the concentrations detected in the pre-screening results and a discussion with the CH2M Project Chemist, the following samples used a reduced volume for extraction to avoid contamination of the laboratory and the instrument: J8457-FS (VC-MS09-DW01-0918) J8458-FS (VC-MS09-DW02-0918) J8459-FS (VC-MS09-DW03-0918) J8460-FS (VC-MS09-DW04-0918) J8461-FS (VC-MS09-DW04P-0918) J8462-FS (VC-MS09-DW05-0918) J8463MS-FS (VC-MS09-DW05-0918-MS) J8464MSD-FS (VC-MS09-DW05-0918-MSD) J8477-FS (VC-PM367-DW01-0918) J8478-FS (VC-PM367-DW02-0918) J8479-FS (VC-PM367-DW03-0918) J8480-FS (VC-PM367-DW03P-0918) J8481-FS (VC-PM367-DW04-0918)
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

**QA/QC Summary**  
**Batch 18-0588**

	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>Samples analyzed on Sciex 5500 LC-MS/MS.</p> <p>The ion ratio for NMeFOSAA in sample J8477-FS (VC-PM367-DW01-0918) was above the 50% RPD criteria.</p> <p>In cases where native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution.</p> <p>Where detected in samples, PFOS is a mixture of linear and branched isomers</p>	
Holding Times	Extraction Date(s)	Analysis Date(s)
	10/5/2018	10/17-19, 23/2018
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.	
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 and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.	
Laboratory derived control limits for recovery and <30% RPD	9 exceedances for recovery and 5 exceedances for RPD.	
	In all cases, the concentration of PFAS compounds detected in the background sample exceeded the amount fortified into the MS and MSD samples.	
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.	



**QA/QC Summary**  
**Batch 18-0588**

Internal Standard Analytes	Labelled analog compounds were added prior to analysis.
+/- 50% of the area of the L5 calibration point.	No exceedances noted.
	There are instances of extracted internal standards (surrogates) that would fall outside of the 50%-150% recovery criteria if reported from the non-diluted extract. This is due to the higher levels of native PFOA and PFOS found in the samples interfering with the 13C2-PFOA and 13C4-PFOS internal standards used to quantify the surrogates. In these cases, the surrogates are reported from dilutions, however, the native compounds are reported from the non-diluted extracts as the interferences are with the internal standards and not the surrogates used to quantify the native compounds.
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 <sup>2</sup> ≥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.
	d3-MeFOSAA fails at 65.67% in CCV KB77 run on 10/19/2018, however these samples are only being reported for PFOS as a dilution so there is no impact on the data.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project Number: 100110125-01  
 Preparation Batch: 18-0588  
 Data Set: DP-18-0294  
 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	9	For 7 of the exceedences, the background sample concentration of native analytes was much higher than the amount spiked into the MS and MSD. There were 2 exceedences for analytes that had concentrations slightly above the amount spiked into the MS and MSD. LMG 10/25/18
Matrix Spike / Matrix Spike Duplicate Precision	5	There were 5 exceedences for MS/MSD precision. All instances were for analytes whose concentration in the background sample was much higher than the amount spiked into the MS and MSD. LMG 10/25/18
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



It can be done

BATTELLE - NORWELL OPERATIONS  
MISCELLANEOUS DOCUMENTATION FORM

<b>Project Title:</b>	CTO-4164 Naval Base Ventura County,	<b>Data Set Number:</b>	DP-18-0294
<b>Project Number:</b>	100110125-01	<b>Prep Batch Number:</b>	18-0588
<b>Entered By:</b>	Lauren Griffith	<b>Entered On:</b>	10/25/2018
<b>Test Code (Matrix Type):</b>	Master_369(L)		

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).  
LMG 10/25/18

d3-MeFOSAA fails at 65.67% in CCV KB77 run on 10/19/2018, however these samples are only being reported for PFOS as a dilution so there is no impact on the data. DMS 10/26/2018

The ion ratio for NMeFOSAA in sample J8477-FS was above the 50% RPD criteria. DMS 10/26/2018

In cases where native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution.  
LMG 10/25/18

There are instances of extracted internal standards (surrogates) that would fall outside of the 50%-150% recovery criteria if reported from the non-diluted extract. This is due to the higher levels of native PFOA and PFOS found in the samples interfering with the 13C2-PFOA and 13C4-PFOS internal standards used to quantify the surrogates. In these cases, the surrogates are reported from dilutions, however, the native compounds are reported from the non-diluted extracts as the interferences are with the internal standards and not the surrogates used to quantify the native compounds. LMG 10/25/18

KB79 was not utilized for the SIS calibration for d3-MeFOSAA. There is no impact on the data once this point is removed. LMG 10/26/18

PFHxS only was reported from method 588\_3.  
LMG 10/26/18

**Task Leader Approval:**

**Supervisor Approval:**

**PM Approval:**

Digitally signed by Jonathan  
Thorn  
Date: 2018.10.25 10:20:38 -04'00'



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01  
 Preparation Batch: 18-0588  
 Data Set: DP-18-0294

		CR900PB-FS (Procedural Blank)	CR901LCS-FS (Laboratory Control Sample)	J8463MS-FS (VC-MS09-DW05-0918-MS)	J8464MSD-FS (VC-MS09-DW05-0918-MSD)	J8455-FS (VC-SO-FB07-09262018)	J8456-FS (VC-SO-EB07-09262018)	J8457-FS (VC-MS09-DW01-0918)	J8458-FS (VC-MS09-DW02-0918)
PFHxA	307-24-4	-	L	L	L	-	-	L	L
PFHpA	375-85-9	-	L	L	L	-	-	L	L
PFOA	335-67-1	-	L	L	L	-	-	L	L
PFNA	375-95-1	-	L	L	L	-	-	L	L
PFDA	335-76-2	-	L	L	L	-	-	-	-
PFUnA	2058-94-8	-	L	L	L	-	-	-	-
PFDoA	307-55-1	-	L	L	L	-	-	-	-
PFTTrDA	72629-94-8	-	L	L	L	-	-	-	-
PFTeDA	376-06-7	-	L	L	L	-	-	-	-
NMeFOSAA	2355-31-9	-	L	L	L	-	-	-	-
NEtFOSAA	2991-50-6	-	L	L	L	-	-	-	-
PFBS	375-73-5	-	L	L	L	-	-	L	L
PFHxS	355-46-4	-	L/Br	L/Br	L/Br	-	-	L/Br	L/Br
PFOS	1763-23-1	-	L/Br	L/Br	L/Br	-	L/Br	L/Br	L/Br

"L": Linear

"Br": branched

"L/Br": Linear/Branched

"-": Not detected



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01  
 Preparation Batch:  
 Data Set: DP-18-

	J8459-FS (VC-MS09-DW03-0918)	J8460-FS (VC-MS09-DW04-0918)	J8461-FS (VC-MS09-DW04P-0918)	J8462-FS (VC-MS09-DW05-0918)	J8477-FS (VC-PM367-DW01-0918)	J8478-FS (VC-PM367-DW02-0918)	J8479-FS (VC-PM367-DW03-0918)	J8480-FS (VC-PM367-DW03P-0918)
PFHxA	L	L	L	L	L	L	L	L
PFHpA	L	L	L	L	L	L	L	L
PFOA	L	L	L	L	L	L	L	L
PFNA	L	L	L	L	L	L	L	L
PFDA	-	-	-	-	-	-	-	-
PFUnA	-	-	-	-	-	-	-	-
PFDoA	-	-	-	-	-	-	-	-
PFTTrDA	-	-	-	-	-	-	-	-
PFTeDA	-	-	-	-	-	-	-	-
NMeFOSAA	-	-	-	-	-	-	-	-
NEtFOSAA	-	-	-	-	L	-	-	-
PFBS	L	L	L	L	-	L	L	L
PFHxS	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFOS	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br

"L" :Linear  
 "Br": branched  
 "L/Br": Linear/Bra  
 "-": Not detected



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01  
 Preparation Batcl  
 Data Set: DP-18-

	J8481-FS (VC-PM367-DW04-0918)	J8482-FS (VC-AQ-FB08-09272018)	J8483-FS (VC-AQ-EB08-09272018)
PFHxA	L	-	-
PFHpA	L	-	-
PFOA	L	-	-
PFNA	L	-	-
PFDA	-	-	-
PFUnA	-	-	-
PFDoA	-	-	-
PFTTrDA	-	-	-
PFTeDA	-	-	-
NMeFOSAA	-	-	-
NEtFOSAA	-	-	-
PFBS	L	-	-
PFHxS	L/Br	-	-
PFOS	L/Br	-	L/Br

"L": Linear  
 "Br": branched  
 "L/Br": Linear/Bra  
 "-": Not detected

**ACCREDITATIONS**

<b>Accrediting Authority</b>	<b>Laboratory ID</b>
U.S. Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)	91667
State of Florida Department of Health	E87856
State of New York Department of Health	12105
Commonwealth of Pennsylvania Department of Environmental Protection	68-05687
State of Washington Department of Ecology	C1050
State of California	3045
Commonwealth of Massachusetts	E87856

*Current certificates and lists of accredited parameters are available upon request.*



# Custody Records



## Sample Receipt Form

Approved:  Authorized

Project Number: 695803 Client: CH2M  
Received by: Schumitz, Matt Date/Time Received: Friday, September 28, 2018 11:00 AM  
No. of Shipping Containers: 2

### 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	Smps
1 of 2	Cooler	7829 7942 9567	Custody Seals	Intact	Intact	Therm_1	0.7	20
2 of 2	Cooler	7829 7942 9578	Custody Seals	Intact	Intact	Therm_1	0.4	26

### 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): 0.7 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 - R0119 (NA) BDO IDs Assigned: J8438 - J8483

Samples logged in by: Schumitz, Matt Date/Time: 09/28/2018 11:00 AM

Approved By: \_\_\_\_\_ Approved On: \_\_\_\_\_

Authorized By: \_\_\_\_\_ Authorized On: \_\_\_\_\_

**Report Corrective Actions**

Corrective Action No: 1 of 1

Authorized  Approved:

**COC Client:** CH2M  
**COC Project:** NBVC Basewide SI  
**COC Date:** 9/28/2018 1:26:0

	<b>Description of Problem:</b>	<b>Explanation:</b>
Client Id	Jars and C-O-C do not have matching Ids	It appears as though the blanks were mixed up when labeling them with the field ID. COC VC-SO-FB07-092618 (J8455) VC-SO-EB07-092618 (J8456) VC-AQ-EB08-092718 (J8483) Labels 1 bottle: VC-SO-FB07-092618, 1 bottle: VC-AQ-FB07-092618 (J8455) 1 bottle: VC-SO-EB07-092618, 1 bottle: VC-AQ-EB07-092618 (J8456) 1 bottle: VC-SO-EB08-092718, 1 bottle: VC-AQ-EB08-092618 (J8483)
	Jars and C-O-C do not have matching Ids	Sample VC-MS09-SB04-0102-MSD only lists VC-MS09-SB04-0102-SD on the sample label. Logged in per COC

**Documentation of project manager notification**

**Sample Custodian** Schumitz, Matt **Date:** 9/28/2018 5:18:00 PM  
**Laboratory Manager:** Thorn, Jonathan **Date:** 10/24/2018 11:17:00 A  
**Project Manager:** Thorn, Jonathan **Date:** 10/24/2018 11:18:00 A

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

**On** 28-Sep-18 **I contacted** Hill, Tiffany **at** CH2M

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

email attached with clarification on sample IDs.

**Date this form was received back to the custodian:** \_\_\_\_\_

**Reference Number:** \_\_\_\_\_

**Schumitz, Matthew**

---

**From:** Thorn, Jonathan R  
**Sent:** Monday, October 01, 2018 5:07 PM  
**To:** Schumitz, Matthew  
**Subject:** FW: 9.28.2018 shipment receipt

Here is the last one

---

**From:** Hill, Tiffany/CVO <Tiffany.Hill@jacobs.com>  
**Sent:** Monday, October 1, 2018 5:07 PM  
**To:** Thorn, Jonathan R <thorn@battelle.org>  
**Subject:** RE: 9.28.2018 shipment receipt

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

Thanks Jon, made my way through these. Please follow IDs per the CoC as done.

---

**From:** Thorn, Jonathan R [<mailto:thorn@battelle.org>]  
**Sent:** Monday, October 01, 2018 9:09 AM  
**To:** Hill, Tiffany/CVO <[Tiffany.Hill@jacobs.com](mailto:Tiffany.Hill@jacobs.com)>  
**Subject:** [EXTERNAL] 9.28.2018 shipment receipt

Hi Tiffany,

Here are the custody records from Friday's shipment. Cooler temperatures are all good. A few questions on some of the sample IDs are on page 2. (Matt still need update the cooler to sample link in our LIMS system o show which samples were in each cooler too).

These will be in Battelle SDGs 18-0588, 18-0589, 18-0590. I will get you the sample to SDG links once we have the IDs updated.

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](mailto:thorn@battelle.org)

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It can be done

Sample Receipt Form Details

Approved:  Authorized

Project Number: 695803 Client: CH2M

Received by: Schumitz, Matt Date/Time Received: Friday, September 28, 2018 11:00 AM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J8438	VC-MS09-SS01-000H	09/26/18 9:41	09/28/18 13:29	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8439	VC-MS09-SB01-0102	09/26/18 9:43	09/28/18 13:29	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8440	VC-MS09-SB01-0506	09/26/18 9:52	09/28/18 13:29	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8441	VC-MS09-SS02-000H	09/26/18 9:30	09/28/18 13:30	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8442	VC-MS09-SB02-0102	09/26/18 9:34	09/28/18 13:31	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8443	VC-MS09-SB02-0506	09/26/18 9:41	09/28/18 13:32	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8444	VC-MS09-SS03-000H	09/26/18 10:15	09/28/18 13:32	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8445	VC-MS09-SB03-0102	09/26/18 10:20	09/28/18 13:32	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8446	VC-MS09-SB03-0506	09/26/18 10:25	09/28/18 13:32	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8447	VC-MS09-SS04-000H	09/26/18 11:16	09/28/18 13:33	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8448	VC-MS09-SB04-0102	09/26/18 11:18	09/28/18 13:33	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8449	VC-MS09-SB04-0506	09/26/18 11:25	09/28/18 13:33	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8450	VC-MS09-SS05-000H	09/26/18 10:44	09/28/18 13:37	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8451	VC-MS09-SB05-0102	09/26/18 10:45	09/28/18 13:37	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8452	VC-MS09-SB05-0506	09/26/18 10:50	09/28/18 13:37	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8453	VC-MS09-SB04-0102-MS	09/26/18 11:18	09/28/18 13:38	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8454	VC-MS09-SB04-0102-MSD	09/26/18 11:18	09/28/18 13:38	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8455	VC-SO-FB07-09262018	09/26/18 11:43	09/28/18 13:39	2	AQ	0.4	NA	NA	NA	R0118 (NA)			
J8456	VC-SO-EB07-09262018	09/26/18 11:45	09/28/18 13:40	2	AQ	0.4	NA	NA	NA	R0118 (NA)			
J8457	VC-MS09-DW01-0918	09/26/18 10:16	09/28/18 13:43	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8458	VC-MS09-DW02-0918	09/26/18 10:05	09/28/18 13:43	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8459	VC-MS09-DW03-0918	09/26/18 11:10	09/28/18 13:44	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8460	VC-MS09-DW04-0918	09/26/18 12:22	09/28/18 13:44	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8461	VC-MS09-DW04P-0918	09/26/18 12:20	09/28/18 13:44	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8462	VC-MS09-DW05-0918	09/26/18 11:35	09/28/18 13:45	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8463	VC-MS09-DW05-0918-MS	09/26/18 11:15	09/28/18 13:46	2	AQ	0.7	NA	NA	NA	R0118 (NA)			
J8464	VC-MS09-DW05-0918-MSD	09/26/18 11:15	09/28/18 13:48	2	AQ	0.7	NA	NA	NA	R0118 (NA)			
J8465	VC-PM367-SS01-000H	09/27/18 10:12	09/28/18 13:49	1	SS	0.4	NA	NA	NA	F0117 (NA)			



It can be done

ShpNo SHP-180928-03

Battelle Project No: 0110125-01

Sample Receipt Form Details

Approved:  Authorized

Project Number: 695803 Client: CH2M

Received by: Schumitz, Matt Date/Time Received: Friday, September 28, 2018 11:00 AM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J8466	VC-PM367-SB01-0102	09/27/18 10:15	09/28/18 13:51	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8467	VC-PM367-SB01-0506	09/27/18 10:26	09/28/18 13:51	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8468	VC-PM367-SS02-000H	09/27/18 9:25	09/28/18 13:52	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8469	VC-PM367-SB02-0102	09/27/18 9:31	09/28/18 13:52	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8470	VC-PM367-SB02-0506	09/27/18 9:37	09/28/18 13:52	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8471	VC-PM367-SS03-000H	09/27/18 10:19	09/28/18 13:53	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8472	VC-PM367-SB03-0102	09/27/18 10:20	09/28/18 13:54	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8473	VC-PM367-SB03-0506	09/27/18 10:26	09/28/18 13:55	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8474	VC-PM367-SS04-000H	09/27/18 9:30	09/28/18 13:55	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8475	VC-PM367-SB04-0102	09/27/18 9:31	09/28/18 13:56	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8476	VC-PM367-SB04-0506	09/27/18 9:38	09/28/18 13:56	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8477	VC-PM367-DW01-0918	09/27/18 10:36	09/28/18 13:58	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8478	VC-PM367-DW02-0918	09/27/18 9:50	09/28/18 14:00	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8479	VC-PM367-DW03-0918	09/27/18 10:43	09/28/18 14:00	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8480	VC-PM367-DW03P-0918	09/27/18 10:46	09/28/18 14:00	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8481	VC-PM367-DW04-0918	09/27/18 10:04	09/28/18 14:01	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8482	VC-AQ-FB08-09272018	09/27/18 10:00	09/28/18 14:01	2	AQ	0.4	NA	NA	NA	R0119 (NA)			
J8483	VC-AQ-EB08-09272018	09/27/18 12:00	09/28/18 14:02	2	AQ	0.4	NA	NA	NA	R0119 (NA)			

Total Samples: 46



It can be done

Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): Victoria Kilbert Phone: 724-977-3628 Email: victoria.kilbert@jacobs.com Turnaround Time (TAT) Requested:			Sampling Site: Pt Mugu MSC9			Site Information:		
Project Name: NBVC Basewide SI Project No.: 695803		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/> Time Zone: PST			Preservative NA			COC # 4		
Sample Identification		Analysis PFAS by Method 517/Mod						Page# 1 of 6		
		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.				
VC-MS09-SS01-000H		9/26/18	0941	Grab	SS	1	X			
VC-MS09-SB01-0102		9/26/18	0943	Grab	SB	1	X			
VC-MS09-SB01-0506		9/26/18	0952	Grab	SB	1	X			
VC-MS09-SS02-000H		9/26/18	0930	Grab	SS	1	X			
VC-MS09-SB02-0102		9/26/18	0934	Grab	SB	1	X			
VC-MS09-SB02-0506		9/26/18	0941	Grab	SB	1	X			
VC-MS09-SS03-000H		9/26/18	1015	Grab	SS	1	X			
VC-MS09-SB03-0102		9/26/18	1020	Grab	SB	1	X			
VC-MS09-SB03-0506		9/26/18	1025	Grab	SB	1	X			
VC-MS09-SS04-000H		9/26/18	1116	Grab	SS	1	X			
VC-MS09-SB04-0102		9/26/18	1119	Grab	SB	1	X			
VC-MS09-SB04-0506		9/26/18	1125	Grab	SB	1	X			
Receipt Temperature:(°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:		
Relinquished by (Print/Sign): V. Kilbert		Company: Jacobs	Date/Time: 9/27/18 1300		Received by (Print/Sign): MS		Company: Battelle	Date/Time: 9-28-18 1100		
Relinquished by (Print/Sign):		Company:	Date/Time:		Received by (Print/Sign):		Company:	Date/Time:		
Relinquished by (Print/Sign):		Company:	Date/Time:		Received by (Print/Sign):		Company:	Date/Time:		
Comments:										





### Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): <u>Victoria Kilbert</u> Phone: <u>724-977-3628</u> Email: <u>victoria.kilbert@jacobs.com</u> Turnaround Time (TAT) Requested:				Sampling Site: <u>At Mugu MS09</u>				Site Information: COC # <u>4</u>							
Project Name: NBVC Basewide SI Project No.: <u>695803</u>		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/> Time Zone: <u>PST</u>				Analysis PFAS by Method 517 Mod				Page# <u>2 of 6</u>							
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.	Preservative				Analysis						
J8450 VC	VC-MS09-SS05-000H	9/26/18	1044	Grab	SS	1	X										
J8451 VC	VC-MS09-SB05-0102	9/26/18	1045	Grab	SB	1	X										
J8452 VC	VC-MS09-SB05-0506	9/26/18	1050	Grab	SB	1	X										
J8453 VC	VC-MS09-S B04 - 0102 -MS	9/26/18	1118	Grab	SB	1	X										
J8454 VC	VC-MS09-S B04 - 0102 #SD	9/26/18	1118	Grab	SB	1	X										
J8455 VC	FDT-SO-FB 07-09262018	9/26/18	1143	Grab	AQ	2	X										
J8456 VC	FDT-SO-EB 07-09262018	9/26/18	1145	Grab	AQ	2	X										bow
Receipt Temperature:(°C)		Samples Intact: Yes - No				Samples on Ice: Yes - No				Receipt Comments:							
Relinquished by (Print/Sign): <u>V. Kilbert</u>		Company: <u>Jacobs</u>		Date/Time: <u>9/27/18 1300</u>		Received by (Print/Sign): <u>[Signature]</u>		Company: <u>Battelle</u>		Date/Time: <u>9-28-18 1100</u>							
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:							
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:							
Comments:																	





Chain-of-Custody

<u>Client Contact Information</u> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): <u>Victoria Kilbert</u> Phone: <u>724-977-3628</u> Email: <u>victoria.kilbert@jacobs.com</u> Turnaround Time (TAT) Requested:				Sampling Site: <u>P+ Mugh MS09</u>		Site Information:					
						Preservative NA		COC # <u>4</u>					
Project Name: NBVC Basewide SI		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>				Analysis PFAS by Method 517 Mod							Page# <u>3 of 6</u>
Project No.: <u>6915803</u>		Time Zone: <u>PST</u>											
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.							
VC-MS09-DW01-	<u>0918</u>	<u>J8457</u>	<u>9/26/18</u>	<u>1016</u>	Grab	GW	<u>2</u>	X					
VC-MS09-DW02-	<u>0918</u>	<u>J8458</u>	<u>9/26/18</u>	<u>1005</u>	Grab	GW	<u>2</u>	X					
VC-MS09-DW03-	<u>0918</u>	<u>J8459</u>	<u>9/26/18</u>	<u>1110</u>	Grab	GW	<u>2</u>	X					
VC-MS09-DW04-	<u>0918</u>	<u>J8460</u>	<u>9/26/18</u>	<u>1222</u>	Grab	GW	<u>2</u>	X					
VC-MS09-DW04P-	<u>0918</u>	<u>J8461</u>	<u>9/26/18</u>	<u>1220</u>	Grab	GW	<u>2</u>	X					
VC-MS09-DW05-	<u>0918</u>	<u>J8462</u>	<u>9/26/18</u>	<u>1135</u>	Grab	GW	<u>2</u>	X					
<del>FDL-AQ-EB</del>			<del>9/26/18</del>	<del>1143</del>	Grab	AQ	<del>2</del>	X					
<del>FDT-AQ-EB</del>			<del>9/26/18</del>	<del>1148</del>	Grab	AQ	<del>2</del>	X					
												<u>VB</u>	
Receipt Temperature:(°C)		Samples Intact: Yes - No				Samples on Ice: Yes - No				Receipt Comments:			
Relinquished by (Print/Sign): <u>V. Kilbert</u>		Company: <u>Jacobs</u>		Date/Time: <u>9/27/18 1300</u>		Received by (Print/Sign): <u>[Signature]</u>		Company: <u>Battelle</u>		Date/Time: <u>9-28-18 1100</u>			
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:			
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:			
Comments:													



Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): <u>Victoria Kilbert</u> Phone: <u>24-977-3628</u> Email: <u>victoria.kilbert@jacobs.com</u>			Sampling Site: <u>PT-MUQU PM367</u>		Site Information:				
Project Name: NBVC Basewide SI		Turnaround Time (TAT) Requested:			Preservative: NA		COC # <u>4</u>				
Project No.: <u>695803</u>		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>			Analysis: PEFAS by Method 537 Mod		Page# <u>4 of 6</u>				
Time Zone: <u>PST</u>		Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.			
<del>VC-PM367-S</del>		<del>-MS</del>				Grab			X		
<del>VC-PM367-S</del>		<del>-SD</del>				Grab			X		
<del>FDT-SO-FB</del>						Grab	AQ		X		
<del>FDT-SO-EB</del>						Grab	AQ		X		
<del>VC-MS09-DW05-0918-MS</del>											
<u>VC-MS09-DW05-0918-MS</u>		<u>9/20/18</u>	<u>11:15</u>	<u>Grab</u>	<u>AQ</u>	<u>2</u>			X		
<u>VC-MS09-DW05-0918-MS</u>		<u>9/20/18</u>	<u>11:21</u>	<u>Grab</u>	<u>AQ</u>	<u>2</u>			X		
Receipt Temperature: (°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:			
Relinquished by (Print/Sign): <u>V. Kilbert</u>		Company: <u>Jacobs</u>		Date/Time: <u>9/27/18 1300</u>		Received by (Print/Sign): <u>Ms</u>		Company: <u>Battelle</u>		Date/Time: <u>9-28-18 1100</u>	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:	
Comments:											

J8463  
J8464



Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): Victoria Kilbert Phone: 724-977-3628 Email: victoria.kilbert@jacobs.com			Sampling Site: PM367		Site Information:				
Project Name: NBVC Basewide SI		Turnaround Time (TAT) Requested:			Preservative NA		COC # 4				
Project No.: 695803		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>									
Sample Identification		Time Zone: PST			Analysis PFAS by Method 517 Mod		Page# 5 A 6				
Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.							
VC-PM367-SS01-000H	9/27/18	1012	Grab	SS	1	X					
VC-PM367-SB01-0102	66	9/27/18	1015	Grab	SB	1	X				
VC-PM367-SB01-0506	67	9/27/18	1026	Grab	SB	1	X				
VC-PM367-SS02-000H	68	9/27/18	0925	Grab	SS	1	X				
VC-PM367-SB02-0102	69	9/27/18	0931	Grab	SB	1	X				
VC-PM367-SB02-0506	70	9/27/18	0937	Grab	SB	1	X				
VC-PM367-SS03-000H	71	9/27/18	1019	Grab	SS	1	X				
VC-PM367-SB03-0102	72	9/27/18	1020	Grab	SB	1	X				
VC-PM367-SB03-0506	73	9/27/18	1026	Grab	SB	1	X				
VC-PM367-SS04-000H	74	9/27/18	0930	Grab	SS	1	X				
VC-PM367-SB04-0102	75	9/27/18	0931	Grab	SB	1	X				
VC-PM367-SB04-0506	76	9/27/18	0938	Grab	SB	1	X				
Receipt Temperature: (°C)	Samples Intact: Yes - No			Samples on Ice: Yes - No				Receipt Comments:			
Relinquished by (Print/Sign): V. Kilbert	Company: Jacobs	Date/Time: 9/27/18 1300	Received by (Print/Sign): [Signature]		Company: Battelle	Date/Time: 9-28-18 1100					
Relinquished by (Print/Sign):	Company:	Date/Time:	Received by (Print/Sign):		Company:	Date/Time:					
Relinquished by (Print/Sign):	Company:	Date/Time:	Received by (Print/Sign):		Company:	Date/Time:					
Comments:											





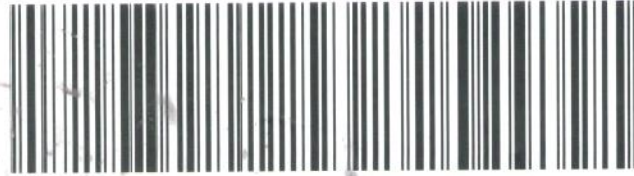
Chain-of-Custody

<u>Client Contact Information</u> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): Victoria Kilbert Phone: 724-977-3628 Email: victoria.kilbert@jacobs.com			Sampling Site: PT Mugu PM367			Site Information:				
Project Name: NBVC Basewide SI		Turnaround Time (TAT) Requested:			Preservative NA			COC # 4				
Project No.: 6915803		Time Zone: PST						Analysis PFAS by Method 517 Mod			Page# 6 of 6	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.						
VC-PM367-DW01-0918		J8477	9/27/18	1036	Grab	GW	2	X				
VC-PM367-DW02-0918		78	9/27/18	0950	Grab	GW	2	X				
VC-PM367-DW03-0918		79	9/27/18	1043	Grab	GW	2	X				
VC-PM367-DW03P-0918		80	9/27/18	1046	Grab	GW	2	X				
VC-PM367-DW04-0918		81	9/27/18	1004	Grab	GW	2	X				
VC-FDT-AQ-FB08-09272018		82	9/27/18	1000	Grab	AQ	2	X				
VC-FDT-AQ-EB08-09272018		J8483	9/27/18	1200	Grab	AQ	2	X	on juv screen			
Receipt Temperature:(°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:				
Relinquished by (Print/Sign): V. Kilbert		Company: J. Jacobs		Date/Time: 9/27/18 1305		Received by (Print/Sign): [Signature]		Company: Battelle		Date/Time: 9-28-18 1100		
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:		
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:		
Comments:												

② 0.4° FRI - 28 SEP 10:30A  
MPS# 7829 7942 9578 PRIORITY OVERNIGHT  
0263

**XE XPUA**

02061  
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# Data Tables



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-SO-FB07-09262018				
Battelle ID	J8455-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.270				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.46 U	0.18	0.46	4.63
PFHpA	375-85-9	0.46 U	0.15	0.46	4.63
PFOA	335-67-1	1.17 J	0.17	0.46	4.63
PFNA	375-95-1	0.93 U	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDaA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	0.46 U	0.12	0.46	4.63
PFHxS	355-46-4	0.37 U	0.10	0.37	4.63
PFOS	1763-23-1	0.20 J	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C5-PFHxA	96
13C4-PFHpA	99
13C8-PFOA	101
13C9-PFNA	94
13C6-PFDA	104
13C7-PFUnA	103
13C2-PFDaA	97
13C2-PFTeDA	97
d3-MeFOSAA	94
d5-EtFOSAA	105
13C3-PFBS	96
13C3-PFHxS	91
13C8-PFOS	105



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-SO-EB07-09262018				
Battelle ID	J8456-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.280				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.45 U	0.17	0.45	4.46
PFHpA	375-85-9	0.45 U	0.14	0.45	4.46
PFOA	335-67-1	1.86 J	0.16	0.45	4.46
PFNA	375-95-1	0.89 U	0.23	0.89	4.46
PFDA	335-76-2	0.45 U	0.14	0.45	4.46
PFUnA	2058-94-8	0.89 U	0.26	0.89	4.46
PFDaA	307-55-1	0.45 U	0.16	0.45	4.46
PFTeDA	72629-94-8	0.45 U	0.13	0.45	4.46
PFTeDA	376-06-7	0.89 U	0.22	0.89	4.46
NMeFOSAA	2355-31-9	1.79 U	0.50	1.79	4.46
NEtFOSAA	2991-50-6	0.89 U	0.44	0.89	4.46
PFBS	375-73-5	0.45 U	0.12	0.45	4.46
PFHxS	355-46-4	0.36 U	0.10	0.36	4.46
PFOS	1763-23-1	10.60	0.17	0.45	4.46

#### Surrogate Recoveries (%)

13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	100
13C9-PFNA	86
13C6-PFDA	95
13C7-PFUnA	98
13C2-PFDaA	95
13C2-PFTeDA	102
d3-MeFOSAA	81
d5-EtFOSAA	79
13C3-PFBS	87
13C3-PFHxS	95
13C8-PFOS	87





Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW01-0918				
Battelle ID	J8457-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.200				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	5284.98 D	29.69	78.13	781.25
PFHpA	375-85-9	1259.87 D	5.00	15.63	156.25
PFOA	335-67-1	3749.59 D	11.25	31.25	312.50
PFNA	375-95-1	53.38	0.33	1.25	6.25
PFDA	335-76-2	1.77 J	0.20	0.63	6.25
PFUnA	2058-94-8	1.25 U	0.36	1.25	6.25
PFDaA	307-55-1	0.63 U	0.23	0.63	6.25
PFTTrDA	72629-94-8	0.63 U	0.19	0.63	6.25
PFTeDA	376-06-7	1.25 U	0.31	1.25	6.25
NMeFOSAA	2355-31-9	2.50 U	0.70	2.50	6.25
NEtFOSAA	2991-50-6	1.25 U	0.61	1.25	6.25
PFBS	375-73-5	1434.41 D	4.06	15.63	156.25
PFHxS	355-46-4	10555.62 D	17.19	62.50	781.25
PFOS	1763-23-1	7093.19 D	29.69	78.13	781.25

#### Surrogate Recoveries (%)

13C5-PFHxA	98 D
13C4-PFHpA	99 D
13C8-PFOA	103 D
13C9-PFNA	91 D
13C6-PFDA	106 D
13C7-PFUnA	105
13C2-PFDaA	105
13C2-PFTeDA	103
d3-MeFOSAA	106 D
d5-EtFOSAA	113 D
13C3-PFBS	120 D
13C3-PFHxS	115 D
13C8-PFOS	107 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW02-0918				
Battelle ID	J8458-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	36652.49 D	118.75	312.50	3125.00
PFHpA	375-85-9	9572.78 D	100.00	312.50	3125.00
PFOA	335-67-1	21814.86 D	112.50	312.50	3125.00
PFNA	375-95-1	277.20	6.50	25.00	125.00
PFDA	335-76-2	14.12 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	14062.20 D	81.25	312.50	3125.00
PFHxS	355-46-4	73397.07 D	137.50	500.00	6250.00
PFOS	1763-23-1	56964.32 D	237.50	625.00	6250.00

#### Surrogate Recoveries (%)

13C5-PFHxA	97 D
13C4-PFHpA	98 D
13C8-PFOA	104 D
13C9-PFNA	96 D
13C6-PFDA	87
13C7-PFUnA	93
13C2-PFDaA	85
13C2-PFTeDA	90
d3-MeFOSAA	123
d5-EtFOSAA	129
13C3-PFBS	103 D
13C3-PFHxS	91 D
13C8-PFOS	100 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW03-0918				
Battelle ID	J8459-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	145528.90 D	395.83	1041.66	10416.63
PFHpA	375-85-9	24231.70 D	100.00	312.50	3125.00
PFOA	335-67-1	120697.97 D	375.00	1041.66	10416.63
PFNA	375-95-1	523.01	6.50	25.00	125.00
PFDA	335-76-2	12.50 U	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	35610.05 D	81.25	312.50	3125.00
PFHxS	355-46-4	121785.13 D	229.17	833.33	10416.63
PFOS	1763-23-1	20235.36 D	118.75	312.50	3125.00

#### Surrogate Recoveries (%)

13C5-PFHxA	99 D
13C4-PFHpA	96 D
13C8-PFOA	101 D
13C9-PFNA	96 D
13C6-PFDA	109 D
13C7-PFUnA	89
13C2-PFDaA	87
13C2-PFTeDA	81
d3-MeFOSAA	100
d5-EtFOSAA	95
13C3-PFBS	93 D
13C3-PFHxS	95 D
13C8-PFOS	98 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW04-0918				
Battelle ID	J8460-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	57802.38 D	296.88	781.25	7812.50
PFHpA	375-85-9	14477.35 D	100.00	312.50	3125.00
PFOA	335-67-1	74334.08 D	281.25	781.25	7812.50
PFNA	375-95-1	1116.82	6.50	25.00	125.00
PFDA	335-76-2	11.81 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	15230.86 D	81.25	312.50	3125.00
PFHxS	355-46-4	136806.59 D	859.38	3125.00	39062.50
PFOS	1763-23-1	113352.52 D	296.88	781.25	7812.50

#### Surrogate Recoveries (%)

13C5-PFHxA	108 D
13C4-PFHpA	106 D
13C8-PFOA	112 D
13C9-PFNA	99 D
13C6-PFDA	102
13C7-PFUnA	105
13C2-PFDaA	101
13C2-PFTeDA	104
d3-MeFOSAA	119 D
d5-EtFOSAA	114 D
13C3-PFBS	129 D
13C3-PFHxS	104 D
13C8-PFOS	111 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW04P-0918				
Battelle ID	J8461-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	60829.93 D	296.88	781.25	7812.50
PFHpA	375-85-9	13559.54 D	100.00	312.50	3125.00
PFOA	335-67-1	77937.76 D	281.25	781.25	7812.50
PFNA	375-95-1	1199.32	6.50	25.00	125.00
PFDA	335-76-2	11.27 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	15926.52 D	81.25	312.50	3125.00
PFHxS	355-46-4	161864.04 D	859.38	3125.00	39062.50
PFOS	1763-23-1	122970.11 D	1484.38	3906.25	39062.50

#### Surrogate Recoveries (%)

13C5-PFHxA	97 D
13C4-PFHpA	98 D
13C8-PFOA	101 D
13C9-PFNA	99 D
13C6-PFDA	98
13C7-PFUnA	103
13C2-PFDaA	94
13C2-PFTeDA	91
d3-MeFOSAA	138
d5-EtFOSAA	117 D
13C3-PFBS	107 D
13C3-PFHxS	74 D
13C8-PFOS	84 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW05-0918				
Battelle ID	J8462-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.100				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	3122.96 D	11.88	31.25	312.50
PFHpA	375-85-9	933.14 D	10.00	31.25	312.50
PFOA	335-67-1	3132.28 D	11.25	31.25	312.50
PFNA	375-95-1	271.76	0.65	2.50	12.50
PFDA	335-76-2	3.25 J	0.40	1.25	12.50
PFUnA	2058-94-8	2.50 U	0.73	2.50	12.50
PFDaA	307-55-1	1.25 U	0.45	1.25	12.50
PFTeDA	72629-94-8	1.25 U	0.38	1.25	12.50
PFTeDA	376-06-7	2.50 U	0.63	2.50	12.50
NMeFOSAA	2355-31-9	5.00 U	1.40	5.00	12.50
NEtFOSAA	2991-50-6	2.50 U	1.23	2.50	12.50
PFBS	375-73-5	478.75 D	8.13	31.25	312.50
PFHxS	355-46-4	7405.38 D	17.19	62.50	781.25
PFOS	1763-23-1	17879.22 D	296.88	781.25	7812.50

#### Surrogate Recoveries (%)

13C5-PFHxA	109 D
13C4-PFHpA	109 D
13C8-PFOA	114 D
13C9-PFNA	99 D
13C6-PFDA	91
13C7-PFUnA	99
13C2-PFDaA	93
13C2-PFTeDA	96
d3-MeFOSAA	108 D
d5-EtFOSAA	109 D
13C3-PFBS	120 D
13C3-PFHxS	115 D
13C8-PFOS	78 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW01-0918

Battelle ID J8477-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.200  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	1259.71 D	11.88	31.25	312.50
PFHpA	375-85-9	437.39 D	2.00	6.25	62.50
PFOA	335-67-1	2685.86 D	11.25	31.25	312.50
PFNA	375-95-1	38.95	0.33	1.25	6.25
PFDA	335-76-2	3.53 J	0.20	0.63	6.25
PFUnA	2058-94-8	1.25 U	0.36	1.25	6.25
PFDaA	307-55-1	0.63 U	0.23	0.63	6.25
PFTeDA	72629-94-8	0.63 U	0.19	0.63	6.25
PFTeDA	376-06-7	1.25 U	0.31	1.25	6.25
NMeFOSAA	2355-31-9	23.43	0.70	2.50	6.25
NEtFOSAA	2991-50-6	1.25 U	0.61	1.25	6.25
PFBS	375-73-5	146.66 D	1.63	6.25	62.50
PFHxS	355-46-4	4148.96 D	6.88	25.00	312.50
PFOS	1763-23-1	5335.43 D	118.75	312.50	3125.00

#### Surrogate Recoveries (%)

13C5-PFHxA	105 D
13C4-PFHpA	99 D
13C8-PFOA	102 D
13C9-PFNA	92 D
13C6-PFDA	91
13C7-PFUnA	107
13C2-PFDaA	98
13C2-PFTeDA	71
d3-MeFOSAA	98 D
d5-EtFOSAA	94 D
13C3-PFBS	106 D
13C3-PFHxS	90 D
13C8-PFOS	88 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW02-0918

Battelle ID J8478-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.100  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	56132.94 D	395.83	1041.67	10416.66
PFHpA	375-85-9	1669.26 D	4.00	12.50	125.00
PFOA	335-67-1	54604.31 D	375.00	1041.67	10416.66
PFNA	375-95-1	29.14	0.65	2.50	12.50
PFDA	335-76-2	2.10 J	0.40	1.25	12.50
PFUnA	2058-94-8	2.50 U	0.73	2.50	12.50
PFDaA	307-55-1	1.25 U	0.45	1.25	12.50
PFTTrDA	72629-94-8	1.25 U	0.38	1.25	12.50
PFTeDA	376-06-7	2.50 U	0.63	2.50	12.50
NMeFOSAA	2355-31-9	5.00 U	1.40	5.00	12.50
NEtFOSAA	2991-50-6	2.50 U	1.23	2.50	12.50
PFBS	375-73-5	952.71 D	3.25	12.50	125.00
PFHxS	355-46-4	71136.25 D	229.17	833.33	10416.66
PFOS	1763-23-1	19456.73 D	395.83	1041.67	10416.66

#### Surrogate Recoveries (%)

13C5-PFHxA	82 D
13C4-PFHpA	102 D
13C8-PFOA	84 D
13C9-PFNA	96 D
13C6-PFDA	88
13C7-PFUnA	103
13C2-PFDaA	88
13C2-PFTeDA	72
d3-MeFOSAA	141
d5-EtFOSAA	136
13C3-PFBS	114 D
13C3-PFHxS	78 D
13C8-PFOS	81 D





Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW03-0918

Battelle ID J8479-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.010  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	51587.92 D	237.50	625.00	6250.00
PFHpA	375-85-9	9105.69 D	40.00	125.00	1250.00
PFOA	335-67-1	100511.92 D	2250.00	6250.00	62500.00
PFNA	375-95-1	250.33	6.50	25.00	125.00
PFDA	335-76-2	18.57 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	12512.42 D	32.50	125.00	1250.00
PFHxS	355-46-4	97055.91 D	1375.00	5000.00	62500.00
PFOS	1763-23-1	93380.88 D	2375.00	6250.00	62500.00

#### Surrogate Recoveries (%)

13C5-PFHxA	107 D
13C4-PFHpA	102 D
13C8-PFOA	87 D
13C9-PFNA	100 D
13C6-PFDA	93
13C7-PFUnA	97
13C2-PFDaA	90
13C2-PFTeDA	89
d3-MeFOSAA	129
d5-EtFOSAA	132
13C3-PFBS	108 D
13C3-PFHxS	77 D
13C8-PFOS	77 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW03P-0918

Battelle ID	J8480-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	50093.99 D	237.50	625.00	6250.00
PFHpA	375-85-9	9254.99 D	40.00	125.00	1250.00
PFOA	335-67-1	111765.42 D	2250.00	6250.00	62500.00
PFNA	375-95-1	261.33	6.50	25.00	125.00
PFDA	335-76-2	24.36 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	12098.11 D	32.50	125.00	1250.00
PFHxS	355-46-4	82521.75 D	137.50	500.00	6250.00
PFOS	1763-23-1	111298.60 D	2375.00	6250.00	62500.00

#### Surrogate Recoveries (%)

13C5-PFHxA	115 D
13C4-PFHpA	103 D
13C8-PFOA	88 D
13C9-PFNA	105 D
13C6-PFDA	92
13C7-PFUnA	92
13C2-PFDaA	91
13C2-PFTeDA	86
d3-MeFOSAA	139
d5-EtFOSAA	146
13C3-PFBS	109 D
13C3-PFHxS	112 D
13C8-PFOS	81 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW04-0918

Battelle ID J8481-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.050  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	5671.87 D	23.75	62.50	625.00
PFHpA	375-85-9	1096.03 D	4.00	12.50	125.00
PFOA	335-67-1	8296.77 D	225.00	625.00	6250.00
PFNA	375-95-1	38.17	1.30	5.00	25.00
PFDA	335-76-2	2.83 J	0.80	2.50	25.00
PFUnA	2058-94-8	5.00 U	1.45	5.00	25.00
PFDaA	307-55-1	2.50 U	0.90	2.50	25.00
PFTeDA	72629-94-8	2.50 U	0.75	2.50	25.00
PFTeDA	376-06-7	5.00 U	1.25	5.00	25.00
NMeFOSAA	2355-31-9	10.00 U	2.80	10.00	25.00
NEtFOSAA	2991-50-6	5.00 U	2.45	5.00	25.00
PFBS	375-73-5	823.18 D	3.25	12.50	125.00
PFHxS	355-46-4	7772.76 D	13.75	50.00	625.00
PFOS	1763-23-1	6580.29 D	23.75	62.50	625.00

#### Surrogate Recoveries (%)

13C5-PFHxA	101 D
13C4-PFHpA	102 D
13C8-PFOA	83 D
13C9-PFNA	94 D
13C6-PFDA	94
13C7-PFUnA	87
13C2-PFDaA	91
13C2-PFTeDA	90
d3-MeFOSAA	127
d5-EtFOSAA	115
13C3-PFBS	131 D
13C3-PFHxS	115 D
13C8-PFOS	101 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-AQ-FB08-09272018

Battelle ID J8482-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix AQ  
 Sample Size 0.270  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	0.46 U	0.18	0.46	4.63
PFHpA	375-85-9	0.46 U	0.15	0.46	4.63
PFOA	335-67-1	1.10 J	0.17	0.46	4.63
PFNA	375-95-1	0.93 U	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDaA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	0.46 U	0.12	0.46	4.63
PFHxS	355-46-4	0.16 J	0.10	0.37	4.63
PFOS	1763-23-1	0.47 J	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C5-PFHxA	96
13C4-PFHpA	88
13C8-PFOA	103
13C9-PFNA	81
13C6-PFDA	88
13C7-PFUnA	98
13C2-PFDaA	90
13C2-PFTeDA	86
d3-MeFOSAA	100
d5-EtFOSAA	104
13C3-PFBS	97
13C3-PFHxS	108
13C8-PFOS	100



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-AQ-EB08-09272018				
Battelle ID	J8483-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.290				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.43 U	0.16	0.43	4.31
PFHpA	375-85-9	0.19 J	0.14	0.43	4.31
PFOA	335-67-1	1.36 J	0.16	0.43	4.31
PFNA	375-95-1	0.86 U	0.22	0.86	4.31
PFDA	335-76-2	0.43 U	0.14	0.43	4.31
PFUnA	2058-94-8	0.86 U	0.25	0.86	4.31
PFDaA	307-55-1	0.43 U	0.16	0.43	4.31
PFTeDA	72629-94-8	0.43 U	0.13	0.43	4.31
PFTeDA	376-06-7	0.86 U	0.22	0.86	4.31
NMeFOSAA	2355-31-9	1.72 U	0.48	1.72	4.31
NEtFOSAA	2991-50-6	0.86 U	0.42	0.86	4.31
PFBS	375-73-5	0.30 J	0.11	0.43	4.31
PFHxS	355-46-4	1.98 J	0.09	0.34	4.31
PFOS	1763-23-1	11.18	0.16	0.43	4.31

#### Surrogate Recoveries (%)

13C5-PFHxA	80
13C4-PFHpA	80
13C8-PFOA	91
13C9-PFNA	77
13C6-PFDA	84
13C7-PFUnA	92
13C2-PFDaA	80
13C2-PFTeDA	71
d3-MeFOSAA	104
d5-EtFOSAA	88
13C3-PFBS	100
13C3-PFHxS	81
13C8-PFOS	85



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	KB80 IB				
Battelle ID	KB80 IB_10/17/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	10/17/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	0.50 U	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDoA	307-55-1	0.50 U	0.18	0.50	5.00
PFTeDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.50 U	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C5-PFHxA	98
13C4-PFHpA	98
13C8-PFOA	101
13C9-PFNA	100
13C6-PFDA	103
13C7-PFUnA	102
13C2-PFDoA	98
13C2-PFTeDA	93
d3-MeFOSAA	100
d5-EtFOSAA	96
13C3-PFBS	95
13C3-PFHxS	103
13C8-PFOS	96



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	KB80 IB				
Battelle ID	KB80 IB_10/19/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	10/19/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	0.50 U	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDaA	307-55-1	0.50 U	0.18	0.50	5.00
PFTrDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.50 U	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C5-PFHxA	106
13C4-PFHpA	103
13C8-PFOA	104
13C9-PFNA	103
13C6-PFDA	99
13C7-PFUnA	101
13C2-PFDaA	102
13C2-PFTeDA	104
d3-MeFOSAA	59
d5-EtFOSAA	64
13C3-PFBS	88
13C3-PFHxS	86
13C8-PFOS	103



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	KB80 IB				
Battelle ID	KB80 IB_10/23/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	10/23/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	--	-	-	-
PFHpA	375-85-9	--	-	-	-
PFOA	335-67-1	--	-	-	-
PFNA	375-95-1	--	-	-	-
PFDA	335-76-2	--	-	-	-
PFUnA	2058-94-8	--	-	-	-
PFDaA	307-55-1	--	-	-	-
PFTTrDA	72629-94-8	--	-	-	-
PFTeDA	376-06-7	--	-	-	-
NMeFOSAA	2355-31-9	--	-	-	-
NEtFOSAA	2991-50-6	--	-	-	-
PFBS	375-73-5	--	-	-	-
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	--	-	-	-

#### Surrogate Recoveries (%)

13C5-PFHxA	
13C4-PFHpA	--
13C8-PFOA	--
13C9-PFNA	--
13C6-PFDA	--
13C7-PFUnA	--
13C2-PFDaA	--
13C2-PFTeDA	--
d3-MeFOSAA	--
d5-EtFOSAA	--
13C3-PFBS	--
13C3-PFHxS	90
13C8-PFOS	--





Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	Procedural Blank				
Battelle ID	CR900PB-FS				
Sample Type	PB				
Collection Date	10/05/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	WATER				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	1.39 J	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDaA	307-55-1	0.50 U	0.18	0.50	5.00
PFTrDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.21 J	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C5-PFHxA	95
13C4-PFHpA	92
13C8-PFOA	97
13C9-PFNA	90
13C6-PFDA	90
13C7-PFUnA	96
13C2-PFDaA	76
13C2-PFTeDA	84
d3-MeFOSAA	90
d5-EtFOSAA	82
13C3-PFBS	97
13C3-PFHxS	97
13C8-PFOS	97



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	Laboratory Control Sample					
Battelle ID	CR901LCS-FS					
Sample Type	LCS					
Collection Date	10/05/2018					
Extraction Date	10/05/2018					
Analysis Date	10/18/2018					
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	Control Limits	
					Lower	Upper
PFHxA	307-24-4	33.73	30.30	111	51	137
PFHpA	375-85-9	33.48	30.00	112	48	136
PFOA	335-67-1	35.95	30.00	120	49	141
PFNA	375-95-1	36.12	30.00	120	58	122
PFDA	335-76-2	31.88	30.00	106	59	135
PFUnA	2058-94-8	31.09	30.00	104	64	134
PFDoA	307-55-1	32.97	30.00	110	75	131
PFTeDA	72629-94-8	33.96	30.00	113	42	148
PFTeDA	376-06-7	34.63	30.00	115	42	158
NMeFOSAA	2355-31-9	33.93	30.00	113	50	146
NEtFOSAA	2991-50-6	33.66	30.00	112	51	131
PFBS	375-73-5	32.46	30.30	107	56	134
PFHxS	355-46-4	35.56	30.30	117	52	128
PFOS	1763-23-1	30.91	30.00	103	40	144

#### Surrogate Recoveries (%)

13C5-PFHxA	110
13C4-PFHpA	99
13C8-PFOA	104
13C9-PFNA	101
13C6-PFDA	98
13C7-PFUnA	105
13C2-PFDoA	100
13C2-PFTeDA	99
d3-MeFOSAA	99
d5-EtFOSAA	82
13C3-PFBS	102
13C3-PFHxS	88
13C8-PFOS	97



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-MS09-DW05-0918	VC-MS09-DW05-0918-MS						
Battelle ID		J8462-FS	J8463MS-FS						
Sample Type		SA	MS						
Collection Date		09/26/2018	09/26/2018						
Extraction Date		10/05/2018	10/05/2018						
Analysis Date		10/18/2018	10/18/2018						
Analytical Instrument		Sciex 5500 LC/MS/MS	Sciex 5500 LC/MS/MS						
% Moisture		NA	NA						
Matrix		GW	AQ						
Sample Size		0.100	0.050						
Size Unit-Basis		L	L	Control Limits					
Units		ng/L	ng/L	Target	Recovery	Qual	Lower	Upper	
PFHxA	307-24-4	3122.96 D	2953.65 D	252.50	0	N	51	137	
PFHpA	375-85-9	933.14 D	1016.47 D	250.00	33	N	48	136	
PFOA	335-67-1	3132.28 D	3307.94 D	250.00	70		49	141	
PFNA	375-95-1	271.76	631.38	250.00	144	N	58	122	
PFDA	335-76-2	3.25 J	262.96	250.00	104		59	135	
PFUnA	2058-94-8	2.50 U	282.55	250.00	113		64	134	
PFDoA	307-55-1	1.25 U	257.56	250.00	103		75	131	
PFTDA	72629-94-8	1.25 U	273.35	250.00	109		42	148	
PFTeDA	376-06-7	2.50 U	253.08	250.00	101		42	158	
NMeFOSAA	2355-31-9	5.00 U	275.78	250.00	110		50	146	
NEtFOSAA	2991-50-6	2.50 U	291.71	250.00	117		51	131	
PFBS	375-73-5	478.75 D	656.53 D	252.50	70		56	134	
PFHxS	355-46-4	7405.38 D	6631.94 D	252.50	0	N	52	128	
PFOS	1763-23-1	17879.22 D	16034.04 D	250.00	0	N	40	144	
<b>Surrogate Recoveries (%)</b>									
13C5-PFHxA		109 D	102 D						
13C4-PFHpA		109 D	97 D						
13C8-PFOA		114 D	104 D						
13C9-PFNA		99 D	94 D						
13C6-PFDA		91	91						
13C7-PFUnA		99	94						
13C2-PFDoA		93	103						
13C2-PFTeDA		96	111						
d3-MeFOSAA		108 D	75 D						
d5-EtFOSAA		109 D	90 D						
13C3-PFBS		120 D	100 D						
13C3-PFHxS		115 D	100 D						
13C8-PFOS		78 D	94 D						



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-MS09-DW05-0918-MSD

Battelle ID J8464MSD-FS  
 Sample Type MSD  
 Collection Date 09/26/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix AQ  
 Sample Size 0.050  
 Size Unit-Basis L

Units	ng/L	Target	Recovery	Qual	Control Limits Lower	Upper	RPD	Qual	RPD Limit	
PFHxA	307-24-4	3447.97 D	252.50	129	51	137	200.0	N	≤ 30	
PFHpA	375-85-9	1197.39 D	250.00	106	48	136	105.0	N	≤ 30	
PFOA	335-67-1	3494.17 D	250.00	145	N	49	141	69.8	N	≤ 30
PFNA	375-95-1	626.36	250.00	142	N	58	122	1.4	≤ 30	
PFDA	335-76-2	247.71	250.00	98	59	135	5.9	≤ 30		
PFUnA	2058-94-8	272.17	250.00	109	64	134	3.6	≤ 30		
PFDoA	307-55-1	257.16	250.00	103	75	131	0.0	≤ 30		
PFTeDA	72629-94-8	293.59	250.00	117	42	148	7.1	≤ 30		
PFTeDA	376-06-7	272.67	250.00	109	42	158	7.6	≤ 30		
NMeFOSAA	2355-31-9	286.47	250.00	115	50	146	4.4	≤ 30		
NEtFOSAA	2991-50-6	274.51	250.00	110	51	131	6.2	≤ 30		
PFBS	375-73-5	723.88 D	252.50	97	56	134	32.3	N	≤ 30	
PFHxS	355-46-4	7288.02 D	252.50	0	N	52	128	0.0	≤ 30	
PFOS	1763-23-1	19440.16 D	250.00	624	N	40	144	200.0	N	≤ 30

**Surrogate Recoveries (%)**

13C5-PFHxA	110 D
13C4-PFHpA	108 D
13C8-PFOA	105 D
13C9-PFNA	99 D
13C6-PFDA	102
13C7-PFUnA	103
13C2-PFDoA	117
13C2-PFTeDA	108
d3-MeFOSAA	101 D
d5-EtFOSAA	100 D
13C3-PFBS	104 D
13C3-PFHxS	109 D
13C8-PFOS	84 D



## Glossary of Data Qualifiers

Flag:      Application:

---

B	Analyte found in the sample at a concentration <10x 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, Limit of Detection (LOD) reported

**CTO-4164 Naval Base Ventura County, California**  
**Project No 100110125-01**  
**PFAS by DoD QSM 5.1 Table B-15**  
*AQ, GW*  
*Batch 18-0588*  
*Package DP-18-0294*

Submitted to:  
CH2M  
1100 NE Circle Blvd Suite 300  
Corvallis, OR 97330 USA

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






**CTO-4164 Naval Base Ventura County, California**  
**Project No 100110125-01**  
**PFAS by DoD QSM 5.1 Table B-15**  
*AQ, GW*  
*Batch 18-0588*  
*Package DP-18-0294*

Submitted to:  
CH2M  
1100 NE Circle Blvd Suite 300  
Corvallis, OR 97330 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:		Lauren Griffith 2018.10.25 10:02:30 -04'00'
QC Chemist Approval:		Digitally signed by devinec@battelle.org DN: cn=devinec@battelle.org Date: 2018.10.26 14:18:06 -04'00'
Project Manager Approval:		Digitally signed by Jonathan Thorn Date: 2018.10.26 17:54:09 -04'00'



# CTO-4164 Naval Base Ventura County, California

## Project No 100110125-01

### PFAS by DoD QSM 5.1 Table B-15

*AQ, GW*

*Batch 18-0588*

*Package DP-18-0294*


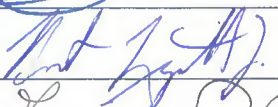
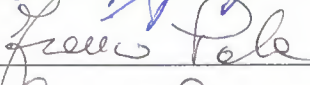





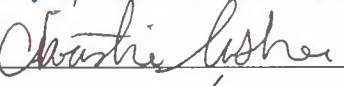

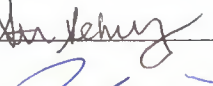

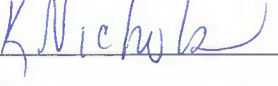



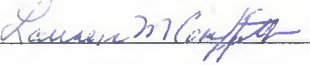
<b>1</b>	<b><i>Work Plan</i></b> Laboratory Work Plan, Addendums To Work Plan, Memos From Project Manager, Special Instructions, Chain-of-Custody Reports.	<b>1</b>
<b>2</b>	<b><i>Tables</i></b> Analytical Data Tables, Qualifier Definitions.	<b>29</b>
<b>3</b>	<b><i>Miscellaneous Documentation</i></b> Case Narrative, Miscellaneous Documentation Form, Quality Control Summary, Example Calculations, Internal Standard Recovery Report, Retention Time Window Report.	<b>53</b>
<b>4</b>	<b><i>Sample Preparation Records</i></b> Sample Preparation Records, Dilution Worksheets, Standard Preparation Records, Certificates Of Analysis, GPC Check Report.	<b>229</b>
<b>5</b>	<b><i>Analytical Calibrations</i></b> Analytical Sequence, Analytical Method, Tune Report, Initial Calibration, Pesticide Degradation Report, RF Summary, Calibration Verifications, Independent Calibration Verification Check.	<b>255</b>
<b>6</b>	<b><i>Analytical Data</i></b> Raw Data Quantification Reports.	<b>540</b>
<b>7</b>	<b><i>Chromatograms</i></b> Sample And Standard Chromatograms.	<b>833</b>
<b>8</b>	<b><i>Unused Data</i></b>	<b>1282</b>

**BATTELLE**

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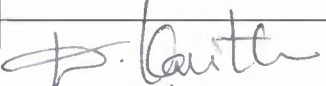
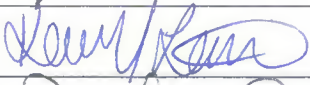


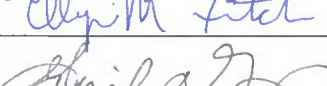
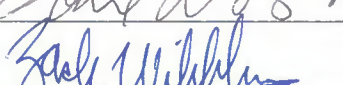
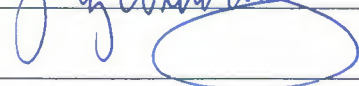


Signature Page

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 Schumitz		DNS	4/4/18
Carol Ann McManis		CM	4/4/2018
Rich Rostucci		RR	4/4/2018
Michael Mena		MM	4/4/2018
Christie Usher		CU	4/4/18
Kevin Matroney		KM	4/4/18
Stephanie Schmitz		SAS	4/4/18
Jordan Tower		JT	4/4/18
KRISTEN NICHOLS		KN	4/4/18
Quimiao H Brown		CB	4/4/18
Matt Schumitz		MS	4-4-18
Sam Guimaraes		SG	4-4-18
Lauren Griffith		LMG	4.4.18

## Signature Page

Battelle 2018 (2 of 2)  
Signature Page

Name (Printed)	Signature	Initials	Date
KAVITHA DASU		KD	04/04/18
Kayla Lamarre		KAL	04/04/18
Weidong Li		W.L	04/04/18
Tracy W Stender		TWS	04/04/18
Ellyn M Fitch		EF	12-April-2018
Gail DeRuzzo		GD	4/18/18
Zachary Willenberg		Z/W	4/20/18

### Sample Summary

Client: CH2M

SDG: 18-0588

Project/Site: Naval Base Ventura County

CTO: 4164

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
CR900PB-FS	Procedural Blank	WATER	10/5/2018	10/5/2018
CR901LCS-FS	Laboratory Control Sample	WATER	10/5/2018	10/5/2018
J8455-FS	VC-SO-FB07-09262018	AQ	9/26/2018	9/28/2018
J8456-FS	VC-SO-EB07-09262018	AQ	9/26/2018	9/28/2018
J8457-FS	VC-MS09-DW01-0918	GW	9/26/2018	9/28/2018
J8458-FS	VC-MS09-DW02-0918	GW	9/26/2018	9/28/2018
J8459-FS	VC-MS09-DW03-0918	GW	9/26/2018	9/28/2018
J8460-FS	VC-MS09-DW04-0918	GW	9/26/2018	9/28/2018
J8461-FS	VC-MS09-DW04P-0918	GW	9/26/2018	9/28/2018
J8462-FS	VC-MS09-DW05-0918	GW	9/26/2018	9/28/2018
J8463MS-FS	VC-MS09-DW05-0918-MS	AQ	9/26/2018	9/28/2018
J8464MSD-FS	VC-MS09-DW05-0918-MSD	AQ	9/26/2018	9/28/2018
J8477-FS	VC-PM367-DW01-0918	GW	9/27/2018	9/28/2018
J8478-FS	VC-PM367-DW02-0918	GW	9/27/2018	9/28/2018
J8479-FS	VC-PM367-DW03-0918	GW	9/27/2018	9/28/2018
J8480-FS	VC-PM367-DW03P-0918	GW	9/27/2018	9/28/2018
J8481-FS	VC-PM367-DW04-0918	GW	9/27/2018	9/28/2018
J8482-FS	VC-AQ-FB08-09272018	AQ	9/27/2018	9/28/2018
J8483-FS	VC-AQ-EB08-09272018	AQ	9/27/2018	9/28/2018

# Work Plan



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### 1.0 GENERAL PROJECT INFORMATION

**Project Title:** CTO-4164: Analysis of Non-Potable Waters  
**Project Number:** 100110125-01  
**Client:** CH2M  
 1100 NE Circle Blvd Suite 300  
 Corvallis, OR 97330  
 USA  
  
**Client Contact Information:** Tiffany Hill  
 Project Chemist  
 (541) 768-3109(V)  
 NA  
 tiffany.hill@jacobs.com  
  
**Effective Date of QAPP:** 9/11/2018  
**Version Number:** 100110125-01(L)-02  
**Project Manager:** Thorn, Jonathan  
**Laboratory Task Manager:** Thorn, Jonathan  
**Deliverable Due Date:** 10/19/2018

### 2.0 SCOPE OF WORK

**Overview:** Analysis of non-potable water samples for PFAS.  
**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 refrigerated.  
**Sub\_Sampling:** None  
**Procedures:** NA  
**Contact:** NA  
**Comment:** None  
**Archiving:** Store remaining samples for six months after submission of final reports.  
 Notify client prior to sample disposal.  
**Disposal:** Dispose of any remaining samples in the appropriate waste stream.



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## WORK/QUALITY ASSURANCE PROJECT PLAN

### 2.1.2 Sample Preparation

Samples will be batched as they arrive, with a 28-day TAT from receipt of samples.

Samples Expected:	Samples Per Batch:	Batches Expected:
150	20	8

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	Background for MS/MSD will be indicated on COC.
MSD	Spiked field sample for determining method accuracy and precision in the presence of matrix.	1 per batch	--	NA	Background for MS/MSD will be indicated on COC.

### 2.1.3 Extraction/Preparation

#### 2.1.3.1 Extraction

SOP No.-Rev:	<b>5-370-06</b>
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:	<ul style="list-style-type: none"> <li>Do not split samples post extract, PIV adjusted to compensate for removal of split.</li> </ul>
Comments:	<ul style="list-style-type: none"> <li>All waters will be pre-screened per draft SOP 5-370-07.</li> </ul>

**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)	JY28 SIS	~ 0.250 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	JZ88 LCS/MS	~ 7.5 ng	150 uL	MS/MSD only - vary spike by batch 100, 150, 200, 250, 300 µL (pre-screening data will indicate if background sample is high level and needs a higher level fortification).
PFAS - DoD Second Source LCS/MS Solution	JZ88 LCS/MS	~ 2.50 ng	50 uL	LCS sample only - vary spike for each batch 50, 100, and 150 µL.

### 2.1.3.2 Cleanup

None.

RIS spiking levels are presented in Table 3.

Extract PIV (uL): 1000

**Table 3: RIS Spiking Level**

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PFAS - DoD Internal Standard Spiking Solution	JY26 RIS	~ 0.250 ng	50 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: **5-369-06**
- SOP\_Title: *Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)*
- Deviations: None
- Comments: None



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## WORK/QUALITY ASSURANCE PROJECT PLAN

### 2.2. DELIVERABLES

<b>Deliverables Due:</b>	10/19/2018
<b>LIMS Reports:</b>	No
<b>Histograms:</b>	No
<b>Excel Tables:</b>	Yes
<b>EICs:</b>	No
<b>Chromatograms:</b>	No
<b>EDDs:</b>	Yes
<b>Comments:</b>	<ul style="list-style-type: none"> <li>• Individual data sets will be due 28 days after receipt of each sample set.</li> <li>• Full Level 4 data package (QSM 5.1 Table B-15 compliant) required.</li> <li>• SEDD file required.</li> <li>• weekly updates to client on status required.</li> </ul>

### 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	NA
Zachary J. Willenberg	Quality Assurance Officer	NA

#### 4.2 COMMUNICATION

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

### 5.0 SCHEDULE





It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

The project schedule is presented in Table 5.

**Table 5. Schedule of Laboratory Activities**

<b>Activity:</b>	<b>Start Date:</b>	<b>End Date:</b>	<b>TAT (days):</b>	<b>Comment:</b>
Sample Receipt	09/21/2018	09/21/2018	0	Timeline provided is an example based on samples arriving on 9/21. Schedule will shift for each delivery.
Sample Preparation	09/21/2018	09/25/2018	4	NA
Instrument Analysis	09/25/2018	10/05/2018	10	NA
Quality Control Review	10/05/2018	10/10/2018	5	NA
Quality Assurance Review	10/10/2018	10/15/2018	5	NA

### 6.0 BUDGET

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

**Table 6. Labor Budget (Laboratory Analytical Task)**

<b>Labor Activity:</b>	<b>Hours/ Batch:</b>	<b>Batches:</b>	<b>Total Hours:</b>	<b>Comment:</b>
Sample Receipt	2	10	20	Hours are based on batches of 20 samples.
Sample Preparation	8	10	80	NA
Instrument Analysis	8	10	80	NA
Quality Control Review	3	10	30	NA
Quality Assurance Review	1	10	10	NA

### 7.0 STAFF DEVELOPMENT

None anticipated



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 1: Target Samples

**Shipment:** SHP-180921-01  
**Status:** Pending  
**Description:** NBVC Basewide SI  
**Range:** J8210-J8277  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J8210	VC-PM3009-DW01-0918	09/17/2018 3:10 pm	GW	R0119	(NA)		
2	J8211	VC-PM3009-DW02-0918	09/17/2018 4:23 pm	GW	R0119	(NA)		
3	J8212	VC-PM3009-DW02P-0918	09/17/2018 4:27 pm	GW	R0119	(NA)		
4	J8213	VC-PM3009-DW03-0918	09/17/2018 4:38 pm	GW	R0119	(NA)		
5	J8214	VC-PM372-DW01-0918	09/18/2018 10:07 am	GW	R0119	(NA)		
6	J8215	VC-PM372-DW02-0918	09/18/2018 9:25 am	GW	R0119	(NA)		
7	J8216	VC-PM372-DW02P-0918	09/18/2018 9:27 am	GW	R0119	(NA)		
8	J8217	VC-PM372-DW03-0918	09/18/2018 11:49 am	GW	R0119	(NA)		
9	J8241	VC-PM649-DW01-0918	09/18/2018 12:50 pm	GW	R0119	(NA)		
10	J8242	VC-PM649-DW01P-0918	09/18/2018 12:55 pm	GW	R0119	(NA)		
11	J8243	VC-PM649-DW02-0918	09/18/2018 3:35 pm	GW	R0119	(NA)		
12	J8244	VC-PM649-DW03-0918	09/18/2018 2:02 pm	GW	R0119	(NA)		
13	J8245	VC-PM649-DW04-0918	09/18/2018 2:02 pm	GW	R0119	(NA)		
14	J8246	VC-AQ-FB01-0918	09/18/2018 1:30 pm	AQ	R0119	(NA)		
15	J8247	VC-AQ-EB01-0918	09/18/2018 1:40 pm	AQ	R0119	(NA)		
16	J8259	VC-PM365-DW01-0918	09/19/2018 11:10 am	GW	R0119	(NA)		
17	J8260	VC-PM365-DW02-0918	09/19/2018 12:10 pm	GW	R0119	(NA)		
18	J8261	VC-PM365-DW02P-0918	09/19/2018 12:18 pm	GW	R0119	(NA)		
19	J8262	VC-PM365-DW03-0918	09/19/2018 11:10 am	GW	R0119	(NA)		
20	J8272	VC-PM553-DW01-0918	09/19/2018 2:30 pm	GW	R0119	(NA)		
21	J8273	VC-PM553-DW01P-0918	09/19/2018 2:45 pm	GW	R0119	(NA)		
22	J8274	VC-PM553-DW02-0918	09/19/2018 3:15 pm	GW	R0119	(NA)		
23	J8275	VC-PM553-DW03-0918	09/19/2018 12:06 pm	GW	R0119	(NA)		
24	J8276	VC-SO-FB02-0918	09/19/2018 2:35 pm	AQ	R0119	(NA)		
25	J8277	VC-SO-EB02-0918	09/19/2018 2:30 pm	AQ	R0119	(NA)		

**Shipment:** SHP-180925-02  
**Status:** Approved  
**Description:** NBVC Basewide SI  
**Range:** J8285-J8337  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J8285	VC-CS94-DW01-0918	09/21/2018 10:54 am	GW	R0119	(NA)		
2	J8286	VC-CS94-DW01P-0918	09/21/2018 10:58 am	GW	R0119	(NA)		
3	J8287	VC-CS94-DW02-0918	09/21/2018 11:50 am	GW	R0119	(NA)		
4	J8288	VC-CS94-DW03-0918	09/21/2018 11:08 am	GW	R0119	(NA)		
5	J8289	VC-CS94-DW04-0918	09/21/2018 12:14 pm	GW	R0119	(NA)		
6	J8290	VC-CS94-DW05-0918	09/21/2018 12:23 pm	GW	R0119	(NA)		
7	J8308	VC-SO-FB04-092118	09/21/2018 2:20 pm	AQ	R0119	(NA)		



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

**Shipment:** SHP-180925-02  
**Status:** Approved  
**Description:** NBVC Basewide SI  
**Range:** J8285-J8337  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
8	J8309	VC-SO-EB04-092118	09/21/2018 2:20 pm	AQ	R0119	(NA)		
9	J8319	VC-PM323-324-DW01-0918	09/20/2018 2:38 pm	GW	R0119	(NA)		
10	J8320	VC-PM323-324-DW01P-0918	09/20/2018 2:45 pm	GW	R0119	(NA)		
11	J8321	VC-PM323-324-DW02-0918	09/20/2018 11:41 am	GW	R0119	(NA)		
12	J8322	VC-PM323-324-DW03-0918	09/20/2018 10:35 am	GW	R0119	(NA)		
13	J8323	VC-AQ-FB03-092018	09/20/2018 8:00 am	AQ	R0119	(NA)		
14	J8324	VC-AQ-EB03-092018	09/20/2018 8:00 am	AQ	R0119	(NA)		
15	J8330	VC-PM323-DW02-0918	09/20/2018 3:13 pm	GW	R0119	(NA)		
16	J8331	VC-PM323-DW02P-0918	09/20/2018 4:02 pm	GW	R0119	(NA)		
17	J8337	VC-PM324-DW02-0918	09/20/2018 2:00 pm	GW	R0119	(NA)		

**Shipment:** SHP-180927-02  
**Status:** Approved  
**Description:** NBVC Basewide SI  
**Range:** J8358-J8400  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J8358	VC-PM323-DW01-0918	09/24/2018 10:21 am	GW	R0119	(NA)		
2	J8359	VC-PM323-DW03-0918	09/24/2018 11:10 am	GW	R0119	(NA)		
3	J8368	VC-SO-FB05-092418	09/24/2018 1:30 pm	AQ	R0119	(NA)		
4	J8369	VC-SO-EB05-092418	09/24/2018 1:30 pm	AQ	R0119	(NA)		
5	J8370	VC-PM324-DW01-0918	09/24/2018 1:45 pm	GW	R0119	(NA)		
6	J8371	VC-PM324-DW01P-0918	09/24/2018 2:02 pm	GW	R0119	(NA)		
7	J8372	VC-PM324-DW03-0918	09/24/2018 11:15 am	GW	R0119	(NA)		
8	J8382	VC-PM64B-DW01-0918	09/24/2018 3:00 pm	GW	R0119	(NA)		
9	J8383	VC-PM64B-DW02-0918	09/24/2018 3:31 pm	GW	R0119	(NA)		
10	J8384	VC-PM64B-DW03-0918	09/24/2018 2:28 pm	GW	R0119	(NA)		
11	J8385	VC-PM64B-DW03P-0918	09/24/2018 2:35 pm	GW	R0119	(NA)		
12	J8395	VC-HS09-DW01-0918	09/25/2018 2:25 pm	GW	R0119	(NA)		
13	J8396	VC-HS09-DW02-0918	09/25/2018 3:03 pm	GW	R0119	(NA)		
14	J8397	VC-HS09-DW03-0918	09/25/2018 1:19 pm	GW	R0119	(NA)		
15	J8398	VC-AQ-FB-092518	09/25/2018 2:35 pm	AQ	R0119	(NA)		
16	J8399	VC-AQ-EB-092518	09/25/2018 2:30 pm	AQ	R0119	(NA)		
17	J8400	VC-HS09-DW03P-0918	09/25/2018 1:56 pm	GW	R0119	(NA)		



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

**Shipment:** SHP-180928-03  
**Status:** Pending  
**Description:** NBVC Basewide SI  
**Range:** J8455-J8483  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J8455	VC-SO-FB07-09262018	09/26/2018 11:43 am	AQ	R0118	(NA)		
2	J8456	VC-SO-EB07-09262018	09/26/2018 11:45 am	AQ	R0118	(NA)		
3	J8457	VC-MS09-DW01-0918	09/26/2018 10:16 am	GW	R0118	(NA)		
4	J8458	VC-MS09-DW02-0918	09/26/2018 10:05 am	GW	R0118	(NA)		
5	J8459	VC-MS09-DW03-0918	09/26/2018 11:10 am	GW	R0118	(NA)		
6	J8460	VC-MS09-DW04-0918	09/26/2018 12:22 pm	GW	R0118	(NA)		
7	J8461	VC-MS09-DW04P-0918	09/26/2018 12:20 pm	GW	R0118	(NA)		
8	J8462	VC-MS09-DW05-0918	09/26/2018 11:35 am	GW	R0118	(NA)		
9	J8477	VC-PM367-DW01-0918	09/27/2018 10:36 am	GW	R0119	(NA)		
10	J8478	VC-PM367-DW02-0918	09/27/2018 9:50 am	GW	R0119	(NA)		
11	J8479	VC-PM367-DW03-0918	09/27/2018 10:43 am	GW	R0119	(NA)		
12	J8480	VC-PM367-DW03P-0918	09/27/2018 10:46 am	GW	R0119	(NA)		
13	J8481	VC-PM367-DW04-0918	09/27/2018 10:04 am	GW	R0119	(NA)		
14	J8482	VC-AQ-FB08-09272018	09/27/2018 10:00 am	AQ	R0119	(NA)		
15	J8483	VC-AQ-EB08-09272018	09/27/2018 12:00 pm	AQ	R0119	(NA)		

**Shipment:** SHP-181005-03  
**Status:** Approved  
**Description:** NBVC Basewide SI  
**Range:** J8613-J8628  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J8613	VC-PM553-GW0601A-1018	10/01/2018 11:47 am	GW	R0119	(NA)		
2	J8614	VC-AQ-FB09-10012018	10/01/2018 3:57 pm	AQ	R0119	(NA)		
3	J8615	VC-AQ-EB09-10012018	10/01/2018 4:00 pm	AQ	R0119	(NA)		
4	J8616	VC-PM13-GW21-1018	10/01/2018 2:33 pm	GW	R0119	(NA)		
5	J8617	VC-KCHA16-GW01-1018	10/02/2018 11:50 am	GW	R0119	(NA)		
6	J8618	VC-KCHA16-GW01P-1018	10/02/2018 11:54 am	GW	R0119	(NA)		
7	J8619	VC-KCHA16-GW02-1018	10/02/2018 10:15 am	GW	R0119	(NA)		
8	J8620	VC-KCHA16-GW03-1018	10/02/2018 1:18 pm	GW	R0119	(NA)		
9	J8621	VC-AQ-FB10-10022018	10/02/2018 4:00 pm	AQ	R0119	(NA)		
10	J8622	VC-AQ-EB10-10022018	10/02/2018 4:10 pm	AQ	R0119	(NA)		
11	J8623	VC-S09GW01-1018	10/03/2018 12:22 pm	GW	R0119	(NA)		
12	J8624	VC-S09GW04-1018	10/02/2018 4:25 pm	GW	R0119	(NA)		
13	J8625	VC-S09GW04P-1018	10/02/2018 4:29 pm	GW	R0119	(NA)		
14	J8626	VC-S09GW06-1018	10/03/2018 11:22 am	GW	R0119	(NA)		
15	J8627	VC-S14GW01-1018	10/03/2018 2:39 pm	GW	R0119	(NA)		
16	J8628	VC-S14GW03-1018	10/03/2018 3:35 pm	GW	R0119	(NA)		



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

**Shipment:** SHP-181009-01  
**Status:** Pending  
**Description:** NBVC Basewide SI  
**Range:** J8667-J8722  
**Comment:** NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	J8667	VC-CS12-DW01-1018	10/06/2018 8:44 am	GW	R0119	(NA)		
2	J8668	VC-CS12-DW01P-1018	10/06/2018 8:48 am	GW	R0119	(NA)		
3	J8669	VC-CS12-DW02-1018	10/06/2018 11:22 am	GW	R0119	(NA)		
4	J8670	VC-CS12-DW03-1018	10/06/2018 10:30 am	GW	R0119	(NA)		
5	J8683	VC-CS10-DW01-1018	10/06/2018 1:38 pm	GW	R0119	(NA)		
6	J8684	VC-CS10-DW02-1018	10/06/2018 10:30 am	GW	R0119	(NA)		
7	J8685	VC-CS10-DW02P-1018	10/06/2018 10:40 am	GW	R0119	(NA)		
8	J8686	VC-CS10-DW03-1018	10/06/2018 12:07 pm	GW	R0119	(NA)		
9	J8687	VC-CS10-DW04-1018	10/06/2018 10:55 am	GW	R0119	(NA)		
10	J8688	VC-CS18-DW01-1018	10/06/2018 3:18 pm	GW	R0119	(NA)		
11	J8714	VC-FB11-10062018	10/06/2018 6:34 pm	AQ	R0119	(NA)		
12	J8715	VC-EB11-10062018	10/06/2018 6:36 pm	AQ	R0119	(NA)		
13	J8716	VC-CS00-DW01-1018	10/06/2018 2:32 pm	GW	R0119	(NA)		
14	J8717	VC-CS00-DW02-1018	10/06/2018 4:25 pm	GW	R0119	(NA)		
15	J8718	VC-CS00-DW02P-1018	10/06/2018 4:27 pm	GW	R0119	(NA)		
16	J8719	VC-CS00-DW03-1018	10/06/2018 5:05 pm	GW	R0119	(NA)		
17	J8720	VC-CS00-DW04-1018	10/06/2018 1:30 pm	GW	R0119	(NA)		
18	J8721	VC-CS00-DW05-1018	10/06/2018 6:02 pm	GW	R0119	(NA)		
19	J8722	VC-CS00-DW06-1018	10/06/2018 5:40 pm	GW	R0119	(NA)		



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 2: Test Codes

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

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

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Perfluoro-n-hexanoic acid	PFHxA	T		13C5-PFHxA	No	No
2	Perfluoro-n-heptanoic Acid	PFHpA	T		13C4-PFHpA	No	No
3	Perfluoro-n-octanoic Acid	PFOA	T		13C8-PFOA	No	No
4	Perfluorononanoic Acid	PFNA	T		13C9-PFNA	No	No
5	Perfluoro-n-decanoic Acid	PFDA	T		13C6-PFDA	No	No
6	Perfluoro-n-undecanoic acid	PFUnA	T		13C7-PFUnA	No	No
7	Perfluoro-n-dodecanoic acid	PFDoA	T		13C2-PFDoA	No	No
8	Perfluoro-n-tridecanoic acid	PFTTrDA	T		13C2-PFTeDA	No	No
9	Perfluoro-n-tetradecanoic acid	PFTeDA	T		13C2-PFTeDA	No	No
10	N-methylperfluoro-1-octanesulfonamidoacetic acid	NMeFOSAA	T		d3-MeFOSAA	No	No
11	N-ethylperfluoro-octanesulfonamidoacetic acid	NEtFOSAA	T		d5-EtFOSAA	No	No
12	Perfluoro-1-butanefulfonate	PFBS	T		13C3-PFBS	No	No
13	Perfluoro-1-hexanesulfonate	PFHxS	T		13C3-PFHxS	No	No
14	Perfluoro-1-octanesulfonate	PFOS	T		13C8-PFOS	No	No
1	13C5-PFHxA	13C5-PFHxA	SIS	13C2-PFOA		No	No
2	13C4-PFHpA	13C4-PFHpA	SIS	13C2-PFOA		No	No
3	13C8-PFOA	13C8-PFOA	SIS	13C2-PFOA		No	No
4	13C9-PFNA	13C9-PFNA	SIS	13C2-PFOA		No	No



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 2: Test Codes

**Project Test Code Name:** Master\_369

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
5	13C6-PFDA	13C6-PFDA	SIS	13C2-PFDA		No	No
6	13C7-PFUnA	13C7-PFUnA	SIS	13C2-PFDA		No	No
7	13C2-PFDoA	13C2-PFDoA	SIS	13C2-PFDA		No	No
8	13C2-PFTeDA	13C2-PFTeDA	SIS	13C2-PFDA		No	No
9	d3-MeFOSAA	d3-MeFOSAA	SIS	13C4-PFOS		No	No
10	d5-EtFOSAA	d5-EtFOSAA	SIS	13C4-PFOS		No	No
11	13C3-PFBS	13C3-PFBS	SIS	13C4-PFOS		No	No
12	13C3-PFHxS	13C3-PFHxS	SIS	13C4-PFOS		No	No
13	13C8-PFOS	13C8-PFOS	SIS	13C4-PFOS		No	No
<b>Total Analytes:</b>		27					

**Subtract Peaks:**

None

**Sum Peaks:**

None



It can be done

## 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 <sup>2</sup> + 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*





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:
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. Organics Results in the Target is less than 5 times the Original	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.
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. Organics Results in the Target is less than 5 times the Original	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.
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). Organics Results in the Target is less than 5 times the MDL	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Analyte concentration must be > 5x MDL. Organics Results in the Original is less than 5 times the MDL	N n	Review with Project Manager; re-analyze or justify reporting results in the project records.



It can be done

## WORK/QUALITY ASSURANCE PROJECT PLAN

### Attachment 3: Method Quality Objectives

<b>MQO Application</b>	<i>Universal_LC</i>		
<b>MQO:</b>	<b>Acceptance Criteria</b>	<b>Qual:</b>	<b>Corrective Action:</b>
Analytical Triplicate Precision	Organics results less than 30% Relative Standard Deviation (RSD). Analyte concentration must be > 5x MDL.  Organics Results in the Original is less than 5 times the MDL	N  n	Review with Project Manager; re-analyze or justify reporting results in the project records.
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	5-369-6: 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	5-369-6: 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	5-369-6: 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.

## Sample Receipt Form

Approved:  Authorized

Project Number: 695803 Client: CH2M  
Received by: Schumitz, Matt Date/Time Received: Friday, September 28, 2018 11:00 AM  
No. of Shipping Containers: 2

### 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	Smps
1 of 2	Cooler	7829 7942 9567	Custody Seals	Intact	Intact	Therm_1	0.7	20
2 of 2	Cooler	7829 7942 9578	Custody Seals	Intact	Intact	Therm_1	0.4	26

### 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): 0.7 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 - R0119 (NA) BDO IDs Assigned: J8438 - J8483

Samples logged in by: Schumitz, Matt Date/Time: 09/28/2018 11:00 AM

Approved By: \_\_\_\_\_ Approved On: \_\_\_\_\_

Authorized By: \_\_\_\_\_ Authorized On: \_\_\_\_\_

**Report Corrective Actions**

**Corrective Action No: 1 of 1**

Authorized  Approved:

**COC Client:** CH2M  
**COC Project:** NBVC Basewide SI  
**COC Date:** 9/28/2018 1:26:0

	<b>Description of Problem:</b>	<b>Explanation:</b>
Client Id	Jars and C-O-C do not have matching Ids	It appears as though the blanks were mixed up when labeling them with the field ID. COC VC-SO-FB07-092618 (J8455) VC-SO-EB07-092618 (J8456) VC-AQ-EB08-092718 (J8483) Labels 1 bottle: VC-SO-FB07-092618, 1 bottle: VC-AQ-FB07-092618 (J8455) 1 bottle: VC-SO-EB07-092618, 1 bottle: VC-AQ-EB07-092618 (J8456) 1 bottle: VC-SO-EB08-092718, 1 bottle: VC-AQ-EB08-092618 (J8483)
	Jars and C-O-C do not have matching Ids	Sample VC-MS09-SB04-0102-MSD only lists VC-MS09-SB04-0102-SD on the sample label. Logged in per COC

**Documentation of project manager notification**

**Sample Custodian** Schumitz, Matt **Date:** 9/28/2018 5:18:00 PM  
**Laboratory Manager:** Thorn, Jonathan **Date:** 10/24/2018 11:17:00 A  
**Project Manager:** Thorn, Jonathan **Date:** 10/24/2018 11:18:00 A

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

**On** 28-Sep-18 **I contacted** Hill, Tiffany **at** CH2M

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

email attached with clarification on sample IDs.

**Date this form was received back to the custodian:** \_\_\_\_\_

**Reference Number:** \_\_\_\_\_

**Schumitz, Matthew**

---

**From:** Thorn, Jonathan R  
**Sent:** Monday, October 01, 2018 5:07 PM  
**To:** Schumitz, Matthew  
**Subject:** FW: 9.28.2018 shipment receipt

Here is the last one

---

**From:** Hill, Tiffany/CVO <Tiffany.Hill@jacobs.com>  
**Sent:** Monday, October 1, 2018 5:07 PM  
**To:** Thorn, Jonathan R <thorn@battelle.org>  
**Subject:** RE: 9.28.2018 shipment receipt

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

Thanks Jon, made my way through these. Please follow IDs per the CoC as done.

---

**From:** Thorn, Jonathan R [<mailto:thorn@battelle.org>]  
**Sent:** Monday, October 01, 2018 9:09 AM  
**To:** Hill, Tiffany/CVO <[Tiffany.Hill@jacobs.com](mailto:Tiffany.Hill@jacobs.com)>  
**Subject:** [EXTERNAL] 9.28.2018 shipment receipt

Hi Tiffany,

Here are the custody records from Friday's shipment. Cooler temperatures are all good. A few questions on some of the sample IDs are on page 2. (Matt still need update the cooler to sample link in our LIMS system o show which samples were in each cooler too).

These will be in Battelle SDGs 18-0588, 18-0589, 18-0590. I will get you the sample to SDG links once we have the IDs updated.

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](mailto:thorn@battelle.org)

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It can be done

ShpNo SHP-180928-03

Battelle Project No: 0110125-01

Sample Receipt Form Details

Approved:  Authorized

Project Number: 695803 Client: CH2M

Received by: Schumitz, Matt Date/Time Received: Friday, September 28, 2018 11:00 AM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J8438	VC-MS09-SS01-000H	09/26/18 9:41	09/28/18 13:29	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8439	VC-MS09-SB01-0102	09/26/18 9:43	09/28/18 13:29	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8440	VC-MS09-SB01-0506	09/26/18 9:52	09/28/18 13:29	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8441	VC-MS09-SS02-000H	09/26/18 9:30	09/28/18 13:30	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8442	VC-MS09-SB02-0102	09/26/18 9:34	09/28/18 13:31	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8443	VC-MS09-SB02-0506	09/26/18 9:41	09/28/18 13:32	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8444	VC-MS09-SS03-000H	09/26/18 10:15	09/28/18 13:32	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8445	VC-MS09-SB03-0102	09/26/18 10:20	09/28/18 13:32	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8446	VC-MS09-SB03-0506	09/26/18 10:25	09/28/18 13:32	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8447	VC-MS09-SS04-000H	09/26/18 11:16	09/28/18 13:33	1	SS	0.7	NA	NA	NA	F0117 (NA)			
J8448	VC-MS09-SB04-0102	09/26/18 11:18	09/28/18 13:33	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8449	VC-MS09-SB04-0506	09/26/18 11:25	09/28/18 13:33	1	SB	0.7	NA	NA	NA	F0117 (NA)			
J8450	VC-MS09-SS05-000H	09/26/18 10:44	09/28/18 13:37	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8451	VC-MS09-SB05-0102	09/26/18 10:45	09/28/18 13:37	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8452	VC-MS09-SB05-0506	09/26/18 10:50	09/28/18 13:37	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8453	VC-MS09-SB04-0102-MS	09/26/18 11:18	09/28/18 13:38	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8454	VC-MS09-SB04-0102-MSD	09/26/18 11:18	09/28/18 13:38	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8455	VC-SO-FB07-09262018	09/26/18 11:43	09/28/18 13:39	2	AQ	0.4	NA	NA	NA	R0118 (NA)			
J8456	VC-SO-EB07-09262018	09/26/18 11:45	09/28/18 13:40	2	AQ	0.4	NA	NA	NA	R0118 (NA)			
J8457	VC-MS09-DW01-0918	09/26/18 10:16	09/28/18 13:43	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8458	VC-MS09-DW02-0918	09/26/18 10:05	09/28/18 13:43	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8459	VC-MS09-DW03-0918	09/26/18 11:10	09/28/18 13:44	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8460	VC-MS09-DW04-0918	09/26/18 12:22	09/28/18 13:44	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8461	VC-MS09-DW04P-0918	09/26/18 12:20	09/28/18 13:44	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8462	VC-MS09-DW05-0918	09/26/18 11:35	09/28/18 13:45	2	GW	0.7	NA	NA	NA	R0118 (NA)			
J8463	VC-MS09-DW05-0918-MS	09/26/18 11:15	09/28/18 13:46	2	AQ	0.7	NA	NA	NA	R0118 (NA)			
J8464	VC-MS09-DW05-0918-MSD	09/26/18 11:15	09/28/18 13:48	2	AQ	0.7	NA	NA	NA	R0118 (NA)			
J8465	VC-PM367-SS01-000H	09/27/18 10:12	09/28/18 13:49	1	SS	0.4	NA	NA	NA	F0117 (NA)			



It can be done

ShpNo SHP-180928-03

Battelle Project No: 0110125-01

Sample Receipt Form Details

Approved:  Authorized

Project Number: 695803 Client: CH2M

Received by: Schumitz, Matt Date/Time Received: Friday, September 28, 2018 11:00 AM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J8466	VC-PM367-SB01-0102	09/27/18 10:15	09/28/18 13:51	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8467	VC-PM367-SB01-0506	09/27/18 10:26	09/28/18 13:51	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8468	VC-PM367-SS02-000H	09/27/18 9:25	09/28/18 13:52	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8469	VC-PM367-SB02-0102	09/27/18 9:31	09/28/18 13:52	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8470	VC-PM367-SB02-0506	09/27/18 9:37	09/28/18 13:52	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8471	VC-PM367-SS03-000H	09/27/18 10:19	09/28/18 13:53	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8472	VC-PM367-SB03-0102	09/27/18 10:20	09/28/18 13:54	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8473	VC-PM367-SB03-0506	09/27/18 10:26	09/28/18 13:55	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8474	VC-PM367-SS04-000H	09/27/18 9:30	09/28/18 13:55	1	SS	0.4	NA	NA	NA	F0117 (NA)			
J8475	VC-PM367-SB04-0102	09/27/18 9:31	09/28/18 13:56	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8476	VC-PM367-SB04-0506	09/27/18 9:38	09/28/18 13:56	1	SB	0.4	NA	NA	NA	F0117 (NA)			
J8477	VC-PM367-DW01-0918	09/27/18 10:36	09/28/18 13:58	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8478	VC-PM367-DW02-0918	09/27/18 9:50	09/28/18 14:00	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8479	VC-PM367-DW03-0918	09/27/18 10:43	09/28/18 14:00	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8480	VC-PM367-DW03P-0918	09/27/18 10:46	09/28/18 14:00	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8481	VC-PM367-DW04-0918	09/27/18 10:04	09/28/18 14:01	2	GW	0.4	NA	NA	NA	R0119 (NA)			
J8482	VC-AQ-FB08-09272018	09/27/18 10:00	09/28/18 14:01	2	AQ	0.4	NA	NA	NA	R0119 (NA)			
J8483	VC-AQ-EB08-09272018	09/27/18 12:00	09/28/18 14:02	2	AQ	0.4	NA	NA	NA	R0119 (NA)			

Total Samples: 46





### Chain-of-Custody

<b>Client Contact Information</b>		Project Manager: Eric Davis				Sampling Site: <b>PT MUGH MSC9</b>				Site Information:			
Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Sampler Information (print name): <b>Victoria Kilbert</b> Phone: <b>724-977-3628</b> Email: <b>Victoria.Kilbert@jacobs.com</b>				Preservative NA				COC # <b>4</b>			
Project Name: <b>NBVC Basewide SI</b>		Turnaround Time (TAT) Requested: Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>											
Project No.: <b>695803</b>		Time Zone: <b>PST</b>				Analysis PFAS by Method 517/Mod				Page# <b>1 of 6</b>			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix								
VC-MS09-SS01-000H	<b>J8438</b>	9/26/18	0941	Grab	SS	1	X						
VC-MS09-SB01-0102	<b>39</b>	9/26/18	0943	Grab	SB	1	X						
VC-MS09-SB01-0506	<b>40</b>	9/26/18	0952	Grab	SB	1	X						
VC-MS09-SS02-000H	<b>41</b>	9/26/18	0930	Grab	SS	1	X						
VC-MS09-SB02-0102	<b>42</b>	9/26/18	0934	Grab	SB	1	X						
VC-MS09-SB02-0506	<b>43</b>	9/26/18	0941	Grab	SB	1	X						
VC-MS09-SS03-000H	<b>44</b>	9/26/18	1015	Grab	SS	1	X						
VC-MS09-SB03-0102	<b>45</b>	9/26/18	1020	Grab	SB	1	X						
VC-MS09-SB03-0506	<b>46</b>	9/26/18	1025	Grab	SB	1	X						
VC-MS09-SS04-000H	<b>47</b>	9/26/18	1116	Grab	SS	1	X						
VC-MS09-SB04-0102	<b>48</b>	9/26/18	1119	Grab	SB	1	X						
VC-MS09-SB04-0506	<b>J8449</b>	9/26/18	1125	Grab	SB	1	X						
Receipt Temperature: (°C)		Samples Intact: Yes - No				Samples on Ice: Yes - No				Receipt Comments:			
Relinquished by (Print/Sign): <b>V. Kilbert</b>		Company: <b>Jacobs</b>		Date/Time: <b>9/27/18 1300</b>		Received by (Print/Sign): <b>MJ</b>		Company: <b>Battelle</b>		Date/Time: <b>9-28-18 1100</b>			
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:			
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:			
Comments:													



### Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): <i>Victoria Kilbert</i> Phone: <i>724-977-3628</i> Email: <i>victoria.kilbert@jacobs.com</i>				Sampling Site: <i>At Mugu MS09</i>				Site Information:				
Project Name: NBVC Basewide SI		Turnaround Time (TAT) Requested: Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>				Preservative NA				COC # <i>4</i>				
Project No.: <i>695803</i>		Time Zone: <i>PST</i>								Analysis PFAS by Method 517 Mod				Page# <i>2 of 6</i>
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.								
<i>J8450</i> VC-MS09-SS05-000H		<i>9/26/18</i>	<i>1044</i>	Grab	SS	<i>1</i>	X							
<i>J8451</i> VC-MS09-SB05- <i>0102</i>		<i>9/26/18</i>	<i>1045</i>	Grab	SB	<i>1</i>	X							
<i>J8452</i> VC-MS09-SB05- <i>0506</i>		<i>9/26/18</i>	<i>1050</i>	Grab	SB	<i>1</i>	X							
<i>J8453</i> VC-MS09-S <i>B04</i> - <i>0102</i> -MS		<i>9/26/18</i>	<i>1118</i>	Grab	SB	<i>1</i>	X							
<i>J8454</i> VC-MS09-S <i>B04</i> - <i>0102</i> -MSD		<i>9/26/18</i>	<i>1118</i>	Grab	SB	<i>1</i>	X							
<i>J8455</i> VC-FDT-SO-FB <i>07-09262018</i>		<i>9/26/18</i>	<i>1143</i>	Grab	AQ	<i>2</i>	X							
<i>J8456</i> VC-FDT-SO-EB <i>07-09262018</i>		<i>9/26/18</i>	<i>1145</i>	Grab	AQ	<i>2</i>	X				<i>bow</i>			
Receipt Temperature:(°C)		Samples Intact: Yes - No				Samples on Ice: Yes - No				Receipt Comments:				
Relinquished by (Print/Sign): <i>V. Kilbert</i>		Company: <i>Jacobs</i>		Date/Time: <i>9/27/18 1300</i>		Received by (Print/Sign): <i>[Signature]</i>		Company: <i>Battelle</i>		Date/Time: <i>9-28-18 1100</i>				
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:				
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:				
Comments:														



### Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): <u>Victoria Kilbert</u> Phone: <u>724-977-3628</u> Email: <u>victoria.kilbert@jacobs.com</u> Turnaround Time (TAT) Requested:				Sampling Site: <u>P+ Mugh MS09</u>		Site Information:			
Project Name: NBVC Basewide SI		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>				Preservative NA		COC # <u>4</u>			
Project No.: <u>6915803</u>		Time Zone: <u>PST</u>									
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.					
VC-MS09-DW01-	<u>0918</u>	<u>J8457</u>	<u>9/26/18</u>	<u>1016</u>	Grab	GW	<u>2</u>	X			
VC-MS09-DW02-	<u>0918</u>	<u>J8458</u>	<u>9/26/18</u>	<u>1005</u>	Grab	GW	<u>2</u>	X			
VC-MS09-DW03-	<u>0918</u>	<u>J8459</u>	<u>9/26/18</u>	<u>1110</u>	Grab	GW	<u>2</u>	X			
VC-MS09-DW04-	<u>0918</u>	<u>J8460</u>	<u>9/26/18</u>	<u>1222</u>	Grab	GW	<u>2</u>	X			
VC-MS09-DW04P-	<u>0918</u>	<u>J8461</u>	<u>9/26/18</u>	<u>1220</u>	Grab	GW	<u>2</u>	X			
VC-MS09-DW05-	<u>0918</u>	<u>J8462</u>	<u>9/26/18</u>	<u>1135</u>	Grab	GW	<u>2</u>	X			
<del>FDL-AQ-EB</del>			<del>9/26/18</del>	<del>1143</del>	Grab	AQ	<del>2</del>	X			
<del>FDT-AQ-EB</del>			<del>9/26/18</del>	<del>1148</del>	Grab	AQ	<del>2</del>	X			
Receipt Temperature: (°C)		Samples Intact: Yes - No				Samples on Ice: Yes - No				Receipt Comments:	
Relinquished by (Print/Sign): <u>V. Kilbert</u>		Company: <u>Jacobs</u>		Date/Time: <u>9/27/18 1300</u>		Received by (Print/Sign): <u>[Signature]</u>		Company: <u>Battelle</u>		Date/Time: <u>9-28-18 1100</u>	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:	
Comments:											





### Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): <u>Victoria Kilbert</u> Phone: <u>24-977-3628</u> Email: <u>victoria.kilbert@jacobs.com</u>			Sampling Site: <u>PT-MUWU PM367</u>		Site Information:				
Project Name: NBVC Basewide SI		Turnaround Time (TAT) Requested:			Preservative: NA		COC # <u>4</u>				
Project No.: <u>695803</u>		Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/>			Analysis: PEFAS by Method 537 Mod		Page# <u>4 of 6</u>				
Time Zone: <u>PST</u>		Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.			
<del>VC-PM367-S</del>		<del>-MS</del>				Grab			X		
<del>VC-PM367-S</del>		<del>-SD</del>				Grab			X		
<del>FDT-SO-FB</del>						Grab	AQ		X		
<del>FDT-SO-EB</del>						Grab	AQ		X		
<del>VC-MS09-DW05-0918-MS</del>											
<u>VC-MS09-DW05-0918-MS</u>				<u>9/20/18</u>	<u>11:15</u>	<u>Grab</u>	<u>AQ</u>	<u>2</u>	<u>X</u>		
<u>VC-MS09-DW05-0918-MS</u>				<u>9/20/18</u>	<u>11:21</u>	<u>Grab</u>	<u>AQ</u>	<u>2</u>	<u>X</u>		
										(VK)	
Receipt Temperature: (°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:			
Relinquished by (Print/Sign): <u>[Signature]</u>		Company: <u>Jacobs</u>		Date/Time: <u>9/27/18 1300</u>		Received by (Print/Sign): <u>[Signature]</u>		Company: <u>Battelle</u>		Date/Time: <u>9-28-18 1100</u>	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:	
Relinquished by (Print/Sign):		Company:		Date/Time:		Received by (Print/Sign):		Company:		Date/Time:	
Comments:											

J8463  
J8464



### Chain-of-Custody

<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis			Sampling Site: <b>PM367</b>		Site Information:		
Project Name: NBVC Basewide SI		Sampler Information (print name): <b>Victoria Kilbert</b> Phone: <b>724-977-3628</b> Email: <b>victoria.kilbert@jacobs.com</b>			Preservative: <b>NA</b>		COC # <b>4</b>		
Project No.: <b>695803</b>		Turnaround Time (TAT) Requested:			Analysis: <b>PFAS by Method 517 Mod</b>		Page# <b>5 A 6</b>		
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.			
VC-PM367-SS01-000H		<b>9/27/18</b>	<b>1012</b>	Grab	SS	1	X		
VC-PM367-SB01-0102		<b>9/27/18</b>	<b>1015</b>	Grab	SB	1	X		
VC-PM367-SB01-0506		<b>9/27/18</b>	<b>1026</b>	Grab	SB	1	X		
VC-PM367-SS02-000H		<b>9/27/18</b>	<b>0925</b>	Grab	SS	1	X		
VC-PM367-SB02-0102		<b>9/27/18</b>	<b>0931</b>	Grab	SB	1	X		
VC-PM367-SB02-0506		<b>9/27/18</b>	<b>0937</b>	Grab	SB	1	X		
VC-PM367-SS03-000H		<b>9/27/18</b>	<b>1019</b>	Grab	SS	1	X		
VC-PM367-SB03-0102		<b>9/27/18</b>	<b>1020</b>	Grab	SB	1	X		
VC-PM367-SB03-0506		<b>9/27/18</b>	<b>1026</b>	Grab	SB	1	X		
VC-PM367-SS04-000H		<b>9/27/18</b>	<b>0930</b>	Grab	SS	1	X		
VC-PM367-SB04-0102		<b>9/27/18</b>	<b>0931</b>	Grab	SB	1	X		
VC-PM367-SB04-0506		<b>9/27/18</b>	<b>0938</b>	Grab	SB	1	X		
Receipt Temperature: (°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:	
Relinquished by (Print/Sign): <b>V. Kilbert</b>		Company: <b>Jacobs</b>		Date/Time: <b>9/27/18 1300</b>		Received by (Print/Sign): <b>MB</b>		Company: <b>Battelle</b>	
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:									



### Chain-of-Custody

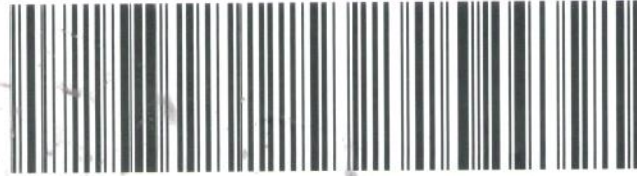
<b>Client Contact Information</b> Tiffany Hill 1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330		Project Manager: Eric Davis Sampler Information (print name): Victoria Kilbert Phone: 541-977-3628 Email: victoria.kilbert@jacobs.com			Sampling Site: PT MUGU PM367		Site Information:				
Project Name: NBVC Basewide SI Project No.: 6915803		Turnaround Time (TAT) Requested: Normal <input checked="" type="checkbox"/> Priority <input type="checkbox"/> RUSH <input type="checkbox"/> Time Zone: PST			Preservation NA		COC # 4				
Sample Identification		Analysis PFAS by Method 517 Mod					Page# 6 of 6				
Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.	PFAS					
VC-PM367-DW01-0918	9/27/18	1036	Grab	GW	2	X					
VC-PM367-DW02-0918	9/27/18	0950	Grab	GW	2	X					
VC-PM367-DW03-0918	9/27/18	1043	Grab	GW	2	X					
VC-PM367-DW03P-0918	9/27/18	1046	Grab	GW	2	X					
VC-PM367-DW04-0918	9/27/18	1004	Grab	GW	2	X					
VC-FDT-AQ-FB08-09272018	9/27/18	1000	Grab	AQ	2	X					
VC-FDT-AQ-EB08-09272018	9/27/18	1200	Grab	AQ	2	X					on juv screen
Receipt Temperature:(°C)		Samples Intact: Yes - No			Samples on Ice: Yes - No			Receipt Comments:			
Relinquished by (Print/Sign): V. Kilbert	Company: Jacobs	Date/Time: 9/27/18 1305		Received by (Print/Sign): [Signature]	Company: Battelle	Date/Time: 9-28-18 1100					
Relinquished by (Print/Sign):	Company:	Date/Time:		Received by (Print/Sign):	Company:	Date/Time:					
Relinquished by (Print/Sign):	Company:	Date/Time:		Received by (Print/Sign):	Company:	Date/Time:					
Comments:											



② 0.4° FRI - 28 SEP 10:30A  
MPS# 7829 7942 9578 PRIORITY OVERNIGHT

**XE XPUA**

02061  
MA-US  
BOS



5169367 28Sep 02:01 MEMH 547C1/F78C/A17C

① 0.7° FRI - 28 SEP 10:30A  
IRK# 7829 7942 9567 PRIORITY OVERNIGHT

**XE XPUA**

02061  
MA-US  
BOS



985519 28Sep 02:02 MEMH 547

# Data Tables





Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-SO-FB07-09262018				
Battelle ID	J8455-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.270				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.46 U	0.18	0.46	4.63
PFHpA	375-85-9	0.46 U	0.15	0.46	4.63
PFOA	335-67-1	1.17 J	0.17	0.46	4.63
PFNA	375-95-1	0.93 U	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDaA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	0.46 U	0.12	0.46	4.63
PFHxS	355-46-4	0.37 U	0.10	0.37	4.63
PFOS	1763-23-1	0.20 J	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C5-PFHxA	96
13C4-PFHpA	99
13C8-PFOA	101
13C9-PFNA	94
13C6-PFDA	104
13C7-PFUnA	103
13C2-PFDaA	97
13C2-PFTeDA	97
d3-MeFOSAA	94
d5-EtFOSAA	105
13C3-PFBS	96
13C3-PFHxS	91
13C8-PFOS	105



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-SO-EB07-09262018				
Battelle ID	J8456-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.280				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.45 U	0.17	0.45	4.46
PFHpA	375-85-9	0.45 U	0.14	0.45	4.46
PFOA	335-67-1	1.86 J	0.16	0.45	4.46
PFNA	375-95-1	0.89 U	0.23	0.89	4.46
PFDA	335-76-2	0.45 U	0.14	0.45	4.46
PFUnA	2058-94-8	0.89 U	0.26	0.89	4.46
PFDaA	307-55-1	0.45 U	0.16	0.45	4.46
PFTeDA	72629-94-8	0.45 U	0.13	0.45	4.46
PFTeDA	376-06-7	0.89 U	0.22	0.89	4.46
NMeFOSAA	2355-31-9	1.79 U	0.50	1.79	4.46
NEtFOSAA	2991-50-6	0.89 U	0.44	0.89	4.46
PFBS	375-73-5	0.45 U	0.12	0.45	4.46
PFHxS	355-46-4	0.36 U	0.10	0.36	4.46
PFOS	1763-23-1	10.60	0.17	0.45	4.46

#### Surrogate Recoveries (%)

13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	100
13C9-PFNA	86
13C6-PFDA	95
13C7-PFUnA	98
13C2-PFDaA	95
13C2-PFTeDA	102
d3-MeFOSAA	81
d5-EtFOSAA	79
13C3-PFBS	87
13C3-PFHxS	95
13C8-PFOS	87



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW01-0918				
Battelle ID	J8457-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.200				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	5284.98 D	29.69	78.13	781.25
PFHpA	375-85-9	1259.87 D	5.00	15.63	156.25
PFOA	335-67-1	3749.59 D	11.25	31.25	312.50
PFNA	375-95-1	53.38	0.33	1.25	6.25
PFDA	335-76-2	1.77 J	0.20	0.63	6.25
PFUnA	2058-94-8	1.25 U	0.36	1.25	6.25
PFDaA	307-55-1	0.63 U	0.23	0.63	6.25
PFTeDA	72629-94-8	0.63 U	0.19	0.63	6.25
PFTeDA	376-06-7	1.25 U	0.31	1.25	6.25
NMeFOSAA	2355-31-9	2.50 U	0.70	2.50	6.25
NEtFOSAA	2991-50-6	1.25 U	0.61	1.25	6.25
PFBS	375-73-5	1434.41 D	4.06	15.63	156.25
PFHxS	355-46-4	10555.62 D	17.19	62.50	781.25
PFOS	1763-23-1	7093.19 D	29.69	78.13	781.25

#### Surrogate Recoveries (%)

13C5-PFHxA	98 D
13C4-PFHpA	99 D
13C8-PFOA	103 D
13C9-PFNA	91 D
13C6-PFDA	106 D
13C7-PFUnA	105
13C2-PFDaA	105
13C2-PFTeDA	103
d3-MeFOSAA	106 D
d5-EtFOSAA	113 D
13C3-PFBS	120 D
13C3-PFHxS	115 D
13C8-PFOS	107 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW02-0918				
Battelle ID	J8458-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	36652.49 D	118.75	312.50	3125.00
PFHpA	375-85-9	9572.78 D	100.00	312.50	3125.00
PFOA	335-67-1	21814.86 D	112.50	312.50	3125.00
PFNA	375-95-1	277.20	6.50	25.00	125.00
PFDA	335-76-2	14.12 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	14062.20 D	81.25	312.50	3125.00
PFHxS	355-46-4	73397.07 D	137.50	500.00	6250.00
PFOS	1763-23-1	56964.32 D	237.50	625.00	6250.00

#### Surrogate Recoveries (%)

13C5-PFHxA	97 D
13C4-PFHpA	98 D
13C8-PFOA	104 D
13C9-PFNA	96 D
13C6-PFDA	87
13C7-PFUnA	93
13C2-PFDaA	85
13C2-PFTeDA	90
d3-MeFOSAA	123
d5-EtFOSAA	129
13C3-PFBS	103 D
13C3-PFHxS	91 D
13C8-PFOS	100 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW03-0918				
Battelle ID	J8459-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	145528.90 D	395.83	1041.66	10416.63
PFHpA	375-85-9	24231.70 D	100.00	312.50	3125.00
PFOA	335-67-1	120697.97 D	375.00	1041.66	10416.63
PFNA	375-95-1	523.01	6.50	25.00	125.00
PFDA	335-76-2	12.50 U	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTeDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	35610.05 D	81.25	312.50	3125.00
PFHxS	355-46-4	121785.13 D	229.17	833.33	10416.63
PFOS	1763-23-1	20235.36 D	118.75	312.50	3125.00

#### Surrogate Recoveries (%)

13C5-PFHxA	99 D
13C4-PFHpA	96 D
13C8-PFOA	101 D
13C9-PFNA	96 D
13C6-PFDA	109 D
13C7-PFUnA	89
13C2-PFDaA	87
13C2-PFTeDA	81
d3-MeFOSAA	100
d5-EtFOSAA	95
13C3-PFBS	93 D
13C3-PFHxS	95 D
13C8-PFOS	98 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW04-0918				
Battelle ID	J8460-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	57802.38 D	296.88	781.25	7812.50
PFHpA	375-85-9	14477.35 D	100.00	312.50	3125.00
PFOA	335-67-1	74334.08 D	281.25	781.25	7812.50
PFNA	375-95-1	1116.82	6.50	25.00	125.00
PFDA	335-76-2	11.81 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	15230.86 D	81.25	312.50	3125.00
PFHxS	355-46-4	136806.59 D	859.38	3125.00	39062.50
PFOS	1763-23-1	113352.52 D	296.88	781.25	7812.50

#### Surrogate Recoveries (%)

13C5-PFHxA	108 D
13C4-PFHpA	106 D
13C8-PFOA	112 D
13C9-PFNA	99 D
13C6-PFDA	102
13C7-PFUnA	105
13C2-PFDaA	101
13C2-PFTeDA	104
d3-MeFOSAA	119 D
d5-EtFOSAA	114 D
13C3-PFBS	129 D
13C3-PFHxS	104 D
13C8-PFOS	111 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW04P-0918				
Battelle ID	J8461-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	60829.93 D	296.88	781.25	7812.50
PFHpA	375-85-9	13559.54 D	100.00	312.50	3125.00
PFOA	335-67-1	77937.76 D	281.25	781.25	7812.50
PFNA	375-95-1	1199.32	6.50	25.00	125.00
PFDA	335-76-2	11.27 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	15926.52 D	81.25	312.50	3125.00
PFHxS	355-46-4	161864.04 D	859.38	3125.00	39062.50
PFOS	1763-23-1	122970.11 D	1484.38	3906.25	39062.50

#### Surrogate Recoveries (%)

13C5-PFHxA	97 D
13C4-PFHpA	98 D
13C8-PFOA	101 D
13C9-PFNA	99 D
13C6-PFDA	98
13C7-PFUnA	103
13C2-PFDaA	94
13C2-PFTeDA	91
d3-MeFOSAA	138
d5-EtFOSAA	117 D
13C3-PFBS	107 D
13C3-PFHxS	74 D
13C8-PFOS	84 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW05-0918				
Battelle ID	J8462-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.100				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	3122.96 D	11.88	31.25	312.50
PFHpA	375-85-9	933.14 D	10.00	31.25	312.50
PFOA	335-67-1	3132.28 D	11.25	31.25	312.50
PFNA	375-95-1	271.76	0.65	2.50	12.50
PFDA	335-76-2	3.25 J	0.40	1.25	12.50
PFUnA	2058-94-8	2.50 U	0.73	2.50	12.50
PFDaA	307-55-1	1.25 U	0.45	1.25	12.50
PFTeDA	72629-94-8	1.25 U	0.38	1.25	12.50
PFTeDA	376-06-7	2.50 U	0.63	2.50	12.50
NMeFOSAA	2355-31-9	5.00 U	1.40	5.00	12.50
NEtFOSAA	2991-50-6	2.50 U	1.23	2.50	12.50
PFBS	375-73-5	478.75 D	8.13	31.25	312.50
PFHxS	355-46-4	7405.38 D	17.19	62.50	781.25
PFOS	1763-23-1	17879.22 D	296.88	781.25	7812.50

#### Surrogate Recoveries (%)

13C5-PFHxA	109 D
13C4-PFHpA	109 D
13C8-PFOA	114 D
13C9-PFNA	99 D
13C6-PFDA	91
13C7-PFUnA	99
13C2-PFDaA	93
13C2-PFTeDA	96
d3-MeFOSAA	108 D
d5-EtFOSAA	109 D
13C3-PFBS	120 D
13C3-PFHxS	115 D
13C8-PFOS	78 D





Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW01-0918

Battelle ID J8477-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.200  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	1259.71 D	11.88	31.25	312.50
PFHpA	375-85-9	437.39 D	2.00	6.25	62.50
PFOA	335-67-1	2685.86 D	11.25	31.25	312.50
PFNA	375-95-1	38.95	0.33	1.25	6.25
PFDA	335-76-2	3.53 J	0.20	0.63	6.25
PFUnA	2058-94-8	1.25 U	0.36	1.25	6.25
PFDaA	307-55-1	0.63 U	0.23	0.63	6.25
PFTeDA	72629-94-8	0.63 U	0.19	0.63	6.25
PFTeDA	376-06-7	1.25 U	0.31	1.25	6.25
NMeFOSAA	2355-31-9	23.43	0.70	2.50	6.25
NEtFOSAA	2991-50-6	1.25 U	0.61	1.25	6.25
PFBS	375-73-5	146.66 D	1.63	6.25	62.50
PFHxS	355-46-4	4148.96 D	6.88	25.00	312.50
PFOS	1763-23-1	5335.43 D	118.75	312.50	3125.00

#### Surrogate Recoveries (%)

13C5-PFHxA	105 D
13C4-PFHpA	99 D
13C8-PFOA	102 D
13C9-PFNA	92 D
13C6-PFDA	91
13C7-PFUnA	107
13C2-PFDaA	98
13C2-PFTeDA	71
d3-MeFOSAA	98 D
d5-EtFOSAA	94 D
13C3-PFBS	106 D
13C3-PFHxS	90 D
13C8-PFOS	88 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW02-0918

Battelle ID J8478-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.100  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	56132.94 D	395.83	1041.67	10416.66
PFHpA	375-85-9	1669.26 D	4.00	12.50	125.00
PFOA	335-67-1	54604.31 D	375.00	1041.67	10416.66
PFNA	375-95-1	29.14	0.65	2.50	12.50
PFDA	335-76-2	2.10 J	0.40	1.25	12.50
PFUnA	2058-94-8	2.50 U	0.73	2.50	12.50
PFDaA	307-55-1	1.25 U	0.45	1.25	12.50
PFTeDA	72629-94-8	1.25 U	0.38	1.25	12.50
PFTeDA	376-06-7	2.50 U	0.63	2.50	12.50
NMeFOSAA	2355-31-9	5.00 U	1.40	5.00	12.50
NEtFOSAA	2991-50-6	2.50 U	1.23	2.50	12.50
PFBS	375-73-5	952.71 D	3.25	12.50	125.00
PFHxS	355-46-4	71136.25 D	229.17	833.33	10416.66
PFOS	1763-23-1	19456.73 D	395.83	1041.67	10416.66

#### Surrogate Recoveries (%)

13C5-PFHxA	82 D
13C4-PFHpA	102 D
13C8-PFOA	84 D
13C9-PFNA	96 D
13C6-PFDA	88
13C7-PFUnA	103
13C2-PFDaA	88
13C2-PFTeDA	72
d3-MeFOSAA	141
d5-EtFOSAA	136
13C3-PFBS	114 D
13C3-PFHxS	78 D
13C8-PFOS	81 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-PM367-DW03-0918				
Battelle ID	J8479-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	51587.92 D	237.50	625.00	6250.00
PFHpA	375-85-9	9105.69 D	40.00	125.00	1250.00
PFOA	335-67-1	100511.92 D	2250.00	6250.00	62500.00
PFNA	375-95-1	250.33	6.50	25.00	125.00
PFDA	335-76-2	18.57 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	12512.42 D	32.50	125.00	1250.00
PFHxS	355-46-4	97055.91 D	1375.00	5000.00	62500.00
PFOS	1763-23-1	93380.88 D	2375.00	6250.00	62500.00

#### Surrogate Recoveries (%)

13C5-PFHxA	107 D
13C4-PFHpA	102 D
13C8-PFOA	87 D
13C9-PFNA	100 D
13C6-PFDA	93
13C7-PFUnA	97
13C2-PFDaA	90
13C2-PFTeDA	89
d3-MeFOSAA	129
d5-EtFOSAA	132
13C3-PFBS	108 D
13C3-PFHxS	77 D
13C8-PFOS	77 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW03P-0918

Battelle ID J8480-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.010  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	50093.99 D	237.50	625.00	6250.00
PFHpA	375-85-9	9254.99 D	40.00	125.00	1250.00
PFOA	335-67-1	111765.42 D	2250.00	6250.00	62500.00
PFNA	375-95-1	261.33	6.50	25.00	125.00
PFDA	335-76-2	24.36 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDaA	307-55-1	12.50 U	4.50	12.50	125.00
PFTeDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	12098.11 D	32.50	125.00	1250.00
PFHxS	355-46-4	82521.75 D	137.50	500.00	6250.00
PFOS	1763-23-1	111298.60 D	2375.00	6250.00	62500.00

#### Surrogate Recoveries (%)

13C5-PFHxA	115 D
13C4-PFHpA	103 D
13C8-PFOA	88 D
13C9-PFNA	105 D
13C6-PFDA	92
13C7-PFUnA	92
13C2-PFDaA	91
13C2-PFTeDA	86
d3-MeFOSAA	139
d5-EtFOSAA	146
13C3-PFBS	109 D
13C3-PFHxS	112 D
13C8-PFOS	81 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-PM367-DW04-0918

Battelle ID J8481-FS  
 Sample Type SA  
 Collection Date 09/27/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.050  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	5671.87 D	23.75	62.50	625.00
PFHpA	375-85-9	1096.03 D	4.00	12.50	125.00
PFOA	335-67-1	8296.77 D	225.00	625.00	6250.00
PFNA	375-95-1	38.17	1.30	5.00	25.00
PFDA	335-76-2	2.83 J	0.80	2.50	25.00
PFUnA	2058-94-8	5.00 U	1.45	5.00	25.00
PFDaA	307-55-1	2.50 U	0.90	2.50	25.00
PFTeDA	72629-94-8	2.50 U	0.75	2.50	25.00
PFTeDA	376-06-7	5.00 U	1.25	5.00	25.00
NMeFOSAA	2355-31-9	10.00 U	2.80	10.00	25.00
NEtFOSAA	2991-50-6	5.00 U	2.45	5.00	25.00
PFBS	375-73-5	823.18 D	3.25	12.50	125.00
PFHxS	355-46-4	7772.76 D	13.75	50.00	625.00
PFOS	1763-23-1	6580.29 D	23.75	62.50	625.00

#### Surrogate Recoveries (%)

13C5-PFHxA	101 D
13C4-PFHpA	102 D
13C8-PFOA	83 D
13C9-PFNA	94 D
13C6-PFDA	94
13C7-PFUnA	87
13C2-PFDaA	91
13C2-PFTeDA	90
d3-MeFOSAA	127
d5-EtFOSAA	115
13C3-PFBS	131 D
13C3-PFHxS	115 D
13C8-PFOS	101 D



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-AQ-FB08-09272018				
Battelle ID	J8482-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.270				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.46 U	0.18	0.46	4.63
PFHpA	375-85-9	0.46 U	0.15	0.46	4.63
PFOA	335-67-1	1.10 J	0.17	0.46	4.63
PFNA	375-95-1	0.93 U	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDoA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	0.46 U	0.12	0.46	4.63
PFHxS	355-46-4	0.16 J	0.10	0.37	4.63
PFOS	1763-23-1	0.47 J	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C5-PFHxA	96
13C4-PFHpA	88
13C8-PFOA	103
13C9-PFNA	81
13C6-PFDA	88
13C7-PFUnA	98
13C2-PFDoA	90
13C2-PFTeDA	86
d3-MeFOSAA	100
d5-EtFOSAA	104
13C3-PFBS	97
13C3-PFHxS	108
13C8-PFOS	100



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-AQ-EB08-09272018				
Battelle ID	J8483-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.290				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.43 U	0.16	0.43	4.31
PFHpA	375-85-9	0.19 J	0.14	0.43	4.31
PFOA	335-67-1	1.36 J	0.16	0.43	4.31
PFNA	375-95-1	0.86 U	0.22	0.86	4.31
PFDA	335-76-2	0.43 U	0.14	0.43	4.31
PFUnA	2058-94-8	0.86 U	0.25	0.86	4.31
PFDaA	307-55-1	0.43 U	0.16	0.43	4.31
PFTeDA	72629-94-8	0.43 U	0.13	0.43	4.31
PFTeDA	376-06-7	0.86 U	0.22	0.86	4.31
NMeFOSAA	2355-31-9	1.72 U	0.48	1.72	4.31
NEtFOSAA	2991-50-6	0.86 U	0.42	0.86	4.31
PFBS	375-73-5	0.30 J	0.11	0.43	4.31
PFHxS	355-46-4	1.98 J	0.09	0.34	4.31
PFOS	1763-23-1	11.18	0.16	0.43	4.31

#### Surrogate Recoveries (%)

13C5-PFHxA	80
13C4-PFHpA	80
13C8-PFOA	91
13C9-PFNA	77
13C6-PFDA	84
13C7-PFUnA	92
13C2-PFDaA	80
13C2-PFTeDA	71
d3-MeFOSAA	104
d5-EtFOSAA	88
13C3-PFBS	100
13C3-PFHxS	81
13C8-PFOS	85



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	KB80 IB				
Battelle ID	KB80 IB_10/17/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	10/17/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	0.50 U	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDaA	307-55-1	0.50 U	0.18	0.50	5.00
PFTeDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.50 U	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C5-PFHxA	98
13C4-PFHpA	98
13C8-PFOA	101
13C9-PFNA	100
13C6-PFDA	103
13C7-PFUnA	102
13C2-PFDaA	98
13C2-PFTeDA	93
d3-MeFOSAA	100
d5-EtFOSAA	96
13C3-PFBS	95
13C3-PFHxS	103
13C8-PFOS	96





Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	KB80 IB				
Battelle ID	KB80 IB_10/19/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	10/19/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	0.50 U	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDaA	307-55-1	0.50 U	0.18	0.50	5.00
PFTeDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.50 U	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C5-PFHxA	106
13C4-PFHpA	103
13C8-PFOA	104
13C9-PFNA	103
13C6-PFDA	99
13C7-PFUnA	101
13C2-PFDaA	102
13C2-PFTeDA	104
d3-MeFOSAA	59
d5-EtFOSAA	64
13C3-PFBS	88
13C3-PFHxS	86
13C8-PFOS	103



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	KB80 IB				
Battelle ID	KB80 IB_10/23/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	10/23/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	--	-	-	-
PFHpA	375-85-9	--	-	-	-
PFOA	335-67-1	--	-	-	-
PFNA	375-95-1	--	-	-	-
PFDA	335-76-2	--	-	-	-
PFUnA	2058-94-8	--	-	-	-
PFDaA	307-55-1	--	-	-	-
PFTTrDA	72629-94-8	--	-	-	-
PFTeDA	376-06-7	--	-	-	-
NMeFOSAA	2355-31-9	--	-	-	-
NEtFOSAA	2991-50-6	--	-	-	-
PFBS	375-73-5	--	-	-	-
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	--	-	-	-

#### Surrogate Recoveries (%)

13C5-PFHxA	
13C4-PFHpA	--
13C8-PFOA	--
13C9-PFNA	--
13C6-PFDA	--
13C7-PFUnA	--
13C2-PFDaA	--
13C2-PFTeDA	--
d3-MeFOSAA	--
d5-EtFOSAA	--
13C3-PFBS	--
13C3-PFHxS	90
13C8-PFOS	--



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	Procedural Blank				
Battelle ID	CR900PB-FS				
Sample Type	PB				
Collection Date	10/05/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	WATER				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	1.39 J	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDaA	307-55-1	0.50 U	0.18	0.50	5.00
PFTrDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.21 J	0.19	0.50	5.00

#### Surrogate Recoveries (%)

13C5-PFHxA	95
13C4-PFHpA	92
13C8-PFOA	97
13C9-PFNA	90
13C6-PFDA	90
13C7-PFUnA	96
13C2-PFDaA	76
13C2-PFTeDA	84
d3-MeFOSAA	90
d5-EtFOSAA	82
13C3-PFBS	97
13C3-PFHxS	97
13C8-PFOS	97



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	Laboratory Control Sample					
Battelle ID	CR901LCS-FS					
Sample Type	LCS					
Collection Date	10/05/2018					
Extraction Date	10/05/2018					
Analysis Date	10/18/2018					
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	Control Limits	
					Lower	Upper
PFHxA	307-24-4	33.73	30.30	111	51	137
PFHpA	375-85-9	33.48	30.00	112	48	136
PFOA	335-67-1	35.95	30.00	120	49	141
PFNA	375-95-1	36.12	30.00	120	58	122
PFDA	335-76-2	31.88	30.00	106	59	135
PFUnA	2058-94-8	31.09	30.00	104	64	134
PFDoA	307-55-1	32.97	30.00	110	75	131
PFTrDA	72629-94-8	33.96	30.00	113	42	148
PFTeDA	376-06-7	34.63	30.00	115	42	158
NMeFOSAA	2355-31-9	33.93	30.00	113	50	146
NEtFOSAA	2991-50-6	33.66	30.00	112	51	131
PFBS	375-73-5	32.46	30.30	107	56	134
PFHxS	355-46-4	35.56	30.30	117	52	128
PFOS	1763-23-1	30.91	30.00	103	40	144

#### Surrogate Recoveries (%)

13C5-PFHxA	110
13C4-PFHpA	99
13C8-PFOA	104
13C9-PFNA	101
13C6-PFDA	98
13C7-PFUnA	105
13C2-PFDoA	100
13C2-PFTeDA	99
d3-MeFOSAA	99
d5-EtFOSAA	82
13C3-PFBS	102
13C3-PFHxS	88
13C8-PFOS	97



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-MS09-DW05-0918	VC-MS09-DW05-0918-MS						
Battelle ID		J8462-FS	J8463MS-FS						
Sample Type		SA	MS						
Collection Date		09/26/2018	09/26/2018						
Extraction Date		10/05/2018	10/05/2018						
Analysis Date		10/18/2018	10/18/2018						
Analytical Instrument		Sciex 5500 LC/MS/MS	Sciex 5500 LC/MS/MS						
% Moisture		NA	NA						
Matrix		GW	AQ						
Sample Size		0.100	0.050						
Size Unit-Basis		L	L						
Units		ng/L	ng/L	Target	Recovery	Qual	Control Limits		
							Lower	Upper	
PFHxA	307-24-4	3122.96 D	2953.65 D	252.50	0	N	51	137	
PFHpA	375-85-9	933.14 D	1016.47 D	250.00	33	N	48	136	
PFOA	335-67-1	3132.28 D	3307.94 D	250.00	70		49	141	
PFNA	375-95-1	271.76	631.38	250.00	144	N	58	122	
PFDA	335-76-2	3.25 J	262.96	250.00	104		59	135	
PFUnA	2058-94-8	2.50 U	282.55	250.00	113		64	134	
PFDoA	307-55-1	1.25 U	257.56	250.00	103		75	131	
PFTDA	72629-94-8	1.25 U	273.35	250.00	109		42	148	
PFTeDA	376-06-7	2.50 U	253.08	250.00	101		42	158	
NMeFOSAA	2355-31-9	5.00 U	275.78	250.00	110		50	146	
NEtFOSAA	2991-50-6	2.50 U	291.71	250.00	117		51	131	
PFBS	375-73-5	478.75 D	656.53 D	252.50	70		56	134	
PFHxS	355-46-4	7405.38 D	6631.94 D	252.50	0	N	52	128	
PFOS	1763-23-1	17879.22 D	16034.04 D	250.00	0	N	40	144	
<b>Surrogate Recoveries (%)</b>									
13C5-PFHxA		109 D	102 D						
13C4-PFHpA		109 D	97 D						
13C8-PFOA		114 D	104 D						
13C9-PFNA		99 D	94 D						
13C6-PFDA		91	91						
13C7-PFUnA		99	94						
13C2-PFDoA		93	103						
13C2-PFTeDA		96	111						
d3-MeFOSAA		108 D	75 D						
d5-EtFOSAA		109 D	90 D						
13C3-PFBS		120 D	100 D						
13C3-PFHxS		115 D	100 D						
13C8-PFOS		78 D	94 D						



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-MS09-DW05-0918-MSD

Battelle ID J8464MSD-FS  
 Sample Type MSD  
 Collection Date 09/26/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix AQ  
 Sample Size 0.050  
 Size Unit-Basis L

Units	ng/L	Target	Recovery	Qual	Lower	Upper	RPD	Qual	RPD	Limit
PFHxA	307-24-4	3447.97 D	252.50	129	51	137	200.0	N	≤ 30	
PFHpA	375-85-9	1197.39 D	250.00	106	48	136	105.0	N	≤ 30	
PFOA	335-67-1	3494.17 D	250.00	145	N	49	141	69.8	N	≤ 30
PFNA	375-95-1	626.36	250.00	142	N	58	122	1.4	≤ 30	
PFDA	335-76-2	247.71	250.00	98	59	135	5.9	≤ 30		
PFUnA	2058-94-8	272.17	250.00	109	64	134	3.6	≤ 30		
PFDoA	307-55-1	257.16	250.00	103	75	131	0.0	≤ 30		
PFTDA	72629-94-8	293.59	250.00	117	42	148	7.1	≤ 30		
PFTeDA	376-06-7	272.67	250.00	109	42	158	7.6	≤ 30		
NMeFOSAA	2355-31-9	286.47	250.00	115	50	146	4.4	≤ 30		
NEtFOSAA	2991-50-6	274.51	250.00	110	51	131	6.2	≤ 30		
PFBS	375-73-5	723.88 D	252.50	97	56	134	32.3	N	≤ 30	
PFHxS	355-46-4	7288.02 D	252.50	0	N	52	128	0.0	≤ 30	
PFOS	1763-23-1	19440.16 D	250.00	624	N	40	144	200.0	N	≤ 30

#### Surrogate Recoveries (%)

13C5-PFHxA	110 D
13C4-PFHpA	108 D
13C8-PFOA	105 D
13C9-PFNA	99 D
13C6-PFDA	102
13C7-PFUnA	103
13C2-PFDoA	117
13C2-PFTeDA	108
d3-MeFOSAA	101 D
d5-EtFOSAA	100 D
13C3-PFBS	104 D
13C3-PFHxS	109 D
13C8-PFOS	84 D



## Glossary of Data Qualifiers

Flag:      Application:

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B	Analyte found in the sample at a concentration <10x 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, Limit of Detection (LOD) reported

# Miscellaneous Documentation



**QA/QC Summary**  
**Batch 18-0588**

Project:	CTO-4164 Naval Base Ventura County, California
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	GW, AQ
Data Set:	DP-18-0294
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
9/27/2018	9/28/2018	0.7 and 0.4
Corrective Actions	Minor discrepancies between the COC and the sample containers were corrected by the Project Chemist, email clarifying IDs is included with the sample custody records.	
Sample Storage	The samples were stored refrigerated until extraction.	
Related samples	NA	

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 <sub>3</sub> in methanol. Extracts were concentrated to dryness under nitrogen with a water bath set between 35 °C and 45 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.
Prep comments	All samples were pre-screened prior to initial extraction. Based on the concentrations detected in the pre-screening results and a discussion with the CH2M Project Chemist, the following samples used a reduced volume for extraction to avoid contamination of the laboratory and the instrument: J8457-FS (VC-MS09-DW01-0918) J8458-FS (VC-MS09-DW02-0918) J8459-FS (VC-MS09-DW03-0918) J8460-FS (VC-MS09-DW04-0918) J8461-FS (VC-MS09-DW04P-0918) J8462-FS (VC-MS09-DW05-0918) J8463MS-FS (VC-MS09-DW05-0918-MS) J8464MSD-FS (VC-MS09-DW05-0918-MSD) J8477-FS (VC-PM367-DW01-0918) J8478-FS (VC-PM367-DW02-0918) J8479-FS (VC-PM367-DW03-0918) J8480-FS (VC-PM367-DW03P-0918) J8481-FS (VC-PM367-DW04-0918)
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

**QA/QC Summary**  
**Batch 18-0588**

	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>Samples analyzed on Sciex 5500 LC-MS/MS.</p> <p>The ion ratio for NMeFOSAA in sample J8477-FS (VC-PM367-DW01-0918) was above the 50% RPD criteria.</p> <p>In cases where native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution.</p> <p>Where detected in samples, PFOS is a mixture of linear and branched isomers</p>

Holding Times	Extraction Date(s)	Analysis Date(s)
	10/5/2018	10/17-19, 23/2018

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
$\leq \frac{1}{2}$ the LOQ	No exceedances noted.
Samples >10x PB	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 and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Laboratory derived control limits for recovery and <30% RPD	9 exceedances for recovery and 5 exceedances for RPD.
	In all cases, the concentration of PFAS compounds detected in the background sample exceeded the amount fortified into the MS and MSD samples.

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.

**QA/QC Summary**  
**Batch 18-0588**

Internal Standard Analytes	Labelled analog compounds were added prior to analysis.
+/- 50% of the area of the L5 calibration point.	No exceedances noted.
	There are instances of extracted internal standards (surrogates) that would fall outside of the 50%-150% recovery criteria if reported from the non-diluted extract. This is due to the higher levels of native PFOA and PFOS found in the samples interfering with the 13C2-PFOA and 13C4-PFOS internal standards used to quantify the surrogates. In these cases, the surrogates are reported from dilutions, however, the native compounds are reported from the non-diluted extracts as the interferences are with the internal standards and not the surrogates used to quantify the native compounds.
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 <sup>2</sup> ≥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.
	d3-MeFOSAA fails at 65.67% in CCV KB77 run on 10/19/2018, however these samples are only being reported for PFOS as a dilution so there is no impact on the data.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project Number: 100110125-01  
 Preparation Batch: 18-0588  
 Data Set: DP-18-0294  
 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	9	For 7 of the exceedences, the background sample concentration of native analytes was much higher than the amount spiked into the MS and MSD. There were 2 exceedences for analytes that had concentrations slightly above the amount spiked into the MS and MSD. LMG 10/25/18
Matrix Spike / Matrix Spike Duplicate Precision	5	There were 5 exceedences for MS/MSD precision. All instances were for analytes whose concentration in the background sample was much higher than the amount spiked into the MS and MSD. LMG 10/25/18
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



It can be done

## BATTELLE - NORWELL OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

<b>Project Title:</b>	CTO-4164 Naval Base Ventura County,	<b>Data Set Number:</b>	DP-18-0294
<b>Project Number:</b>	100110125-01	<b>Prep Batch Number:</b>	18-0588
<b>Entered By:</b>	Lauren Griffith	<b>Entered On:</b>	10/25/2018
<b>Test Code (Matrix Type):</b>	Master_369(L)		

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).  
LMG 10/25/18

d3-MeFOSAA fails at 65.67% in CCV KB77 run on 10/19/2018, however these samples are only being reported for PFOS as a dilution so there is no impact on the data. DMS 10/26/2018

The ion ratio for NMeFOSAA in sample J8477-FS was above the 50% RPD criteria. DMS 10/26/2018

In cases where native PFAS compounds were reported from dilutions (above calibration in non-diluted extracts), the extracted internal standard (surrogate) used to quantify the native compound was also reported from the dilution.  
LMG 10/25/18

There are instances of extracted internal standards (surrogates) that would fall outside of the 50%-150% recovery criteria if reported from the non-diluted extract. This is due to the higher levels of native PFOA and PFOS found in the samples interfering with the 13C2-PFOA and 13C4-PFOS internal standards used to quantify the surrogates. In these cases, the surrogates are reported from dilutions, however, the native compounds are reported from the non-diluted extracts as the interferences are with the internal standards and not the surrogates used to quantify the native compounds. LMG 10/25/18

KB79 was not utilized for the SIS calibration for d3-MeFOSAA. There is no impact on the data once this point is removed. LMG 10/26/18

PFHxS only was reported from method 588\_3.  
LMG 10/26/18

**Task Leader Approval:**

**Supervisor Approval:**

**PM Approval:**

Digitally signed by Jonathan  
Thorn

Date: 2018.10.25 10:20:38 -04'00'



## Example Calculation for PFAS

Calculation of final concentration from area:

$$\text{Concentration} = \left[ \frac{PA - b}{m} \right] * C_{IS} * PIV * DF / S$$

Where:

PA = Area of target / area of internal standard  
 b = y intercept from calibration curve  
 CIS = concentration of internal standard (ng/L)  
 m = slope of calibration  
 DF = dilution factor  
 S = Sample Size  
 PIV = Pre-injection volume (L)

Sample ID: J8457-FS-D(5)  
 Client Sample ID: VC-MS09-DW01-0918  
 Sample Size: 0.2  
 Units: L  
 Dilution Factor: 50.000  
 PIV (L): 0.001  
 Target Analyte: PFOA  
 MRM Transition: 413.0 / 369.0  
 Data file: Data18-0590\_18-01588\_18-0589.wiff  
 Result table: 18-0590\_18-0588\_18-0589\_BASE  
 Area: 5,027,609.35  
 IS Name: 13C8-PFOA  
 IS Area: 83,485.14  
 IS Amount (ng/L): 250  
 y-intercept: 0.0608  
 slope: 1.00279

$$\text{Concentration} = \frac{[(5027609.35/83485.14) - 0.0608]}{1.00279} * 250 * 0.001 * 50 / 0.2$$

$$\text{ng/L} = 3,749.59$$

\*Final concentration may vary based on rounding.



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01  
 Preparation Batch: 18-0588  
 Data Set: DP-18-0294

		CR900PB-FS (Procedural Blank)	CR901LCS-FS (Laboratory Control Sample)	J8463MS-FS (VC-MS09-DW05-0918-MS)	J8464MSD-FS (VC-MS09-DW05-0918-MSD)	J8455-FS (VC-SO-FB07-09262018)	J8456-FS (VC-SO-EB07-09262018)	J8457-FS (VC-MS09-DW01-0918)	J8458-FS (VC-MS09-DW02-0918)
PFHxA	307-24-4	-	L	L	L	-	-	L	L
PFHpA	375-85-9	-	L	L	L	-	-	L	L
PFOA	335-67-1	-	L	L	L	-	-	L	L
PFNA	375-95-1	-	L	L	L	-	-	L	L
PFDA	335-76-2	-	L	L	L	-	-	-	-
PFUnA	2058-94-8	-	L	L	L	-	-	-	-
PFDoA	307-55-1	-	L	L	L	-	-	-	-
PFTTrDA	72629-94-8	-	L	L	L	-	-	-	-
PFTeDA	376-06-7	-	L	L	L	-	-	-	-
NMeFOSAA	2355-31-9	-	L	L	L	-	-	-	-
NEtFOSAA	2991-50-6	-	L	L	L	-	-	-	-
PFBS	375-73-5	-	L	L	L	-	-	L	L
PFHxS	355-46-4	-	L/Br	L/Br	L/Br	-	-	L/Br	L/Br
PFOS	1763-23-1	-	L/Br	L/Br	L/Br	-	L/Br	L/Br	L/Br

"L": Linear

"Br": branched

"L/Br": Linear/Branched

"-": Not detected



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01  
 Preparation Batch:  
 Data Set: DP-18-

	J8459-FS (VC-MS09-DW03-0918)	J8460-FS (VC-MS09-DW04-0918)	J8461-FS (VC-MS09-DW04P-0918)	J8462-FS (VC-MS09-DW05-0918)	J8477-FS (VC-PM367-DW01-0918)	J8478-FS (VC-PM367-DW02-0918)	J8479-FS (VC-PM367-DW03-0918)	J8480-FS (VC-PM367-DW03P-0918)
PFHxA	L	L	L	L	L	L	L	L
PFHpA	L	L	L	L	L	L	L	L
PFOA	L	L	L	L	L	L	L	L
PFNA	L	L	L	L	L	L	L	L
PFDA	-	-	-	-	-	-	-	-
PFUnA	-	-	-	-	-	-	-	-
PFDoA	-	-	-	-	-	-	-	-
PFTTrDA	-	-	-	-	-	-	-	-
PFTeDA	-	-	-	-	-	-	-	-
NMeFOSAA	-	-	-	-	-	-	-	-
NEtFOSAA	-	-	-	-	L	-	-	-
PFBS	L	L	L	L	-	L	L	L
PFHxS	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFOS	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br

"L": Linear

"Br": branched

"L/Br": Linear/Bra

"-": Not detected





Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01  
 Preparation Batch:  
 Data Set: DP-18-

	J8481-FS (VC-PM367-DW04-0918)	J8482-FS (VC-AQ-FB08-09272018)	J8483-FS (VC-AQ-EB08-09272018)
PFHxA	L	-	-
PFHpA	L	-	-
PFOA	L	-	-
PFNA	L	-	-
PFDA	-	-	-
PFUnA	-	-	-
PFDoA	-	-	-
PFTTrDA	-	-	-
PFTeDA	-	-	-
NMeFOSAA	-	-	-
NEtFOSAA	-	-	-
PFBS	L	-	-
PFHxS	L/Br	-	-
PFOS	L/Br	-	L/Br

"L": Linear

"Br": branched

"L/Br": Linear/Bra

"-": Not detected

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFOA	80,369.12	40,184.56	120,553.68

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C2-PFOA	79,095.63	40,184.56	120,553.68	
KB74	L2	10/17/18 19:57	13C2-PFOA	89,971.31	40,184.56	120,553.68	
KB75	L3	10/17/18 20:08	13C2-PFOA	87,799.30	40,184.56	120,553.68	
KB76	L4	10/17/18 20:19	13C2-PFOA	84,567.91	40,184.56	120,553.68	
KB77	L5	10/17/18 20:30	13C2-PFOA	80,369.12	40,184.56	120,553.68	
KB78	L6	10/17/18 20:41	13C2-PFOA	85,964.25	40,184.56	120,553.68	
KB79	L7	10/17/18 20:52	13C2-PFOA	86,636.81	40,184.56	120,553.68	
KB80 IB	Instrument Blank	10/17/18 21:02	13C2-PFOA	85,730.94	40,184.56	120,553.68	
KB81 ICC	ICC	10/17/18 21:13	13C2-PFOA	85,242.44	40,184.56	120,553.68	
KB76 CCV	CCV	10/18/18 0:51	13C2-PFOA	90,764.47	40,184.56	120,553.68	
CR900PB-FS(0)	Procedural Blank	10/18/18 1:12	13C2-PFOA	83,649.12	40,184.56	120,553.68	
CR901LCS-FS(0)	Laboratory Control Sample	10/18/18 1:23	13C2-PFOA	68,361.03	40,184.56	120,553.68	
J8455-FS(0)	VC-SO-FB07-09262018	10/18/18 1:34	13C2-PFOA	82,866.34	40,184.56	120,553.68	
J8456-FS(0)	VC-SO-EB07-09262018	10/18/18 1:45	13C2-PFOA	87,042.51	40,184.56	120,553.68	
<del>J8457-FS(0)</del>	<del>VC-MS09-DW01-0918</del>	<del>10/18/18 1:56</del>	<del>13C2-PFOA</del>	<del>208,873.01</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8457-FS-D(3)	VC-MS09-DW01-0918	10/18/18 2:07	13C2-PFOA	90,316.74	40,184.56	120,553.68	
J8457-FS-D(5)	VC-MS09-DW01-0918	10/18/18 2:18	13C2-PFOA	84,321.82	40,184.56	120,553.68	
J8457-FS-D(7)	VC-MS09-DW01-0918	10/18/18 2:28	13C2-PFOA	92,612.85	40,184.56	120,553.68	
KB77 CCV	CCV	10/18/18 2:39	13C2-PFOA	85,385.11	40,184.56	120,553.68	
J8458-FS(0)	VC-MS09-DW02-0918	10/18/18 3:01	13C2-PFOA	112,346.60	40,184.56	120,553.68	
J8458-FS-D(3)	VC-MS09-DW02-0918	10/18/18 3:12	13C2-PFOA	89,070.74	40,184.56	120,553.68	
J8458-FS-D(5)	VC-MS09-DW02-0918	10/18/18 3:23	13C2-PFOA	88,902.14	40,184.56	120,553.68	
<del>J8459-FS(0)</del>	<del>VC-MS09-DW03-0918</del>	<del>10/18/18 3:34</del>	<del>13C2-PFOA</del>	<del>266,821.24</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8459-FS-D(3)	VC-MS09-DW03-0918	10/18/18 3:44	13C2-PFOA	91,691.26	40,184.56	120,553.68	
J8459-FS-D(5)	VC-MS09-DW03-0918	10/18/18 3:55	13C2-PFOA	82,594.01	40,184.56	120,553.68	
<del>J8460-FS(0)</del>	<del>VC-MS09-DW04-0918</del>	<del>10/18/18 4:06</del>	<del>13C2-PFOA</del>	<del>187,610.51</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8460-FS-D(3)	VC-MS09-DW04-0918	10/18/18 4:17	13C2-PFOA	81,628.63	40,184.56	120,553.68	
J8460-FS-D(5)	VC-MS09-DW04-0918	10/18/18 4:28	13C2-PFOA	75,938.53	40,184.56	120,553.68	
KB76 CCV	CCV	10/18/18 4:39	13C2-PFOA	83,683.34	40,184.56	120,553.68	
<del>J8461-FS(0)</del>	<del>VC-MS09-DW04P-0918</del>	<del>10/18/18 5:01</del>	<del>13C2-PFOA</del>	<del>190,698.68</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8461-FS-D(3)	VC-MS09-DW04P-0918	10/18/18 5:11	13C2-PFOA	87,764.32	40,184.56	120,553.68	
J8461-FS-D(5)	VC-MS09-DW04P-0918	10/18/18 5:22	13C2-PFOA	85,715.23	40,184.56	120,553.68	
J8462-FS(0)	VC-MS09-DW05-0918	10/18/18 5:33	13C2-PFOA	114,127.42	40,184.56	120,553.68	
J8462-FS-D(3)	VC-MS09-DW05-0918	10/18/18 5:44	13C2-PFOA	85,454.36	40,184.56	120,553.68	
J8462-FS-D(5)	VC-MS09-DW05-0918	10/18/18 5:55	13C2-PFOA	86,140.90	40,184.56	120,553.68	
J8463MS-FS(0)	VC-MS09-DW05-0918-MS	10/18/18 6:06	13C2-PFOA	82,930.41	40,184.56	120,553.68	
J8463MS-FS-D(3)	VC-MS09-DW05-0918-MS	10/18/18 6:17	13C2-PFOA	85,221.07	40,184.56	120,553.68	
J8463MS-FS-D(5)	VC-MS09-DW05-0918-MS	10/18/18 6:28	13C2-PFOA	87,295.75	40,184.56	120,553.68	
KB77 CCV	CCV	10/18/18 6:38	13C2-PFOA	85,366.93	40,184.56	120,553.68	
J8464MSD-FS(0)	VC-MS09-DW05-0918-MSD	10/18/18 7:00	13C2-PFOA	99,488.10	40,184.56	120,553.68	
J8464MSD-FS-D(3)	VC-MS09-DW05-0918-MSD	10/18/18 7:11	13C2-PFOA	83,543.48	40,184.56	120,553.68	
J8464MSD-FS-D(5)	VC-MS09-DW05-0918-MSD	10/18/18 7:22	13C2-PFOA	86,845.09	40,184.56	120,553.68	
<del>J8477-FS(0)</del>	<del>VC-PM367-DW01-0918</del>	<del>10/18/18 7:33</del>	<del>13C2-PFOA</del>	<del>176,668.23</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8477-FS-D(3)	VC-PM367-DW01-0918	10/18/18 7:44	13C2-PFOA	97,318.12	40,184.56	120,553.68	
J8477-FS-D(5)	VC-PM367-DW01-0918	10/18/18 7:55	13C2-PFOA	80,663.77	40,184.56	120,553.68	
<del>J8478-FS(0)</del>	<del>VC-PM367-DW02-0918</del>	<del>10/18/18 8:06</del>	<del>13C2-PFOA</del>	<del>237,239.49</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8478-FS-D(3)	VC-PM367-DW02-0918	10/18/18 8:16	13C2-PFOA	98,789.39	40,184.56	120,553.68	
J8478-FS-D(5)	VC-PM367-DW02-0918	10/18/18 8:27	13C2-PFOA	92,883.50	40,184.56	120,553.68	
KB76 CCV	CCV	10/18/18 8:38	13C2-PFOA	83,884.41	40,184.56	120,553.68	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFOA	80,369.12	40,184.56	120,553.68

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
<del>J8479-FS(0)</del>	<del>VC-PM367-DW03-0918</del>	<del>10/18/18 9:00</del>	<del>13C2-PFOA</del>	<del>236,045.41</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8479-FS-D(3)	VC-PM367-DW03-0918	10/18/18 9:11	13C2-PFOA	93,979.51	40,184.56	120,553.68	
J8479-FS-D(5)	VC-PM367-DW03-0918	10/18/18 9:22	13C2-PFOA	92,133.18	40,184.56	120,553.68	
<del>J8480-FS(0)</del>	<del>VC-PM367-DW03P-0918</del>	<del>10/18/18 9:33</del>	<del>13C2-PFOA</del>	<del>246,310.08</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8480-FS-D(3)	VC-PM367-DW03P-0918	10/18/18 9:44	13C2-PFOA	104,693.97	40,184.56	120,553.68	
J8480-FS-D(5)	VC-PM367-DW03P-0918	10/18/18 9:54	13C2-PFOA	80,473.27	40,184.56	120,553.68	
<del>J8481-FS(0)</del>	<del>VC-PM367-DW04-0918</del>	<del>10/18/18 10:05</del>	<del>13C2-PFOA</del>	<del>150,042.17</del>	<del>40,184.56</del>	<del>120,553.68</del>	<del>N</del>
J8481-FS-D(3)	VC-PM367-DW04-0918	10/18/18 10:16	13C2-PFOA	86,685.44	40,184.56	120,553.68	
J8481-FS-D(5)	VC-PM367-DW04-0918	10/18/18 10:27	13C2-PFOA	86,863.45	40,184.56	120,553.68	
KB77 CCV	CCV	10/18/18 10:38	13C2-PFOA	86,466.17	40,184.56	120,553.68	
J8482-FS(0)	VC-AQ-FB08-09272018	10/18/18 11:00	13C2-PFOA	76,643.31	40,184.56	120,553.68	
J8483-FS(0)	VC-AQ-EB08-09272018	10/18/18 11:11	13C2-PFOA	103,622.36	40,184.56	120,553.68	
KB76 CCV	CCV	10/18/18 11:22	13C2-PFOA	50,610.87	40,184.56	120,553.68	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
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Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFDA	90,129.70	45,064.85	135,194.55

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C2-PFDA	100,139.46	45,064.85	135,194.55	
KB74	L2	10/17/18 19:57	13C2-PFDA	103,883.83	45,064.85	135,194.55	
KB75	L3	10/17/18 20:08	13C2-PFDA	98,052.33	45,064.85	135,194.55	
KB76	L4	10/17/18 20:19	13C2-PFDA	99,978.99	45,064.85	135,194.55	
KB77	L5	10/17/18 20:30	13C2-PFDA	90,129.70	45,064.85	135,194.55	
KB78	L6	10/17/18 20:41	13C2-PFDA	104,169.70	45,064.85	135,194.55	
KB79	L7	10/17/18 20:52	13C2-PFDA	100,765.46	45,064.85	135,194.55	
KB80 IB	Instrument Blank	10/17/18 21:02	13C2-PFDA	96,280.28	45,064.85	135,194.55	
KB81 ICC	ICC	10/17/18 21:13	13C2-PFDA	103,402.36	45,064.85	135,194.55	
KB76 CCV	CCV	10/18/18 0:51	13C2-PFDA	106,995.00	45,064.85	135,194.55	
CR900PB-FS(0)	Procedural Blank	10/18/18 1:12	13C2-PFDA	105,431.22	45,064.85	135,194.55	
CR901LCS-FS(0)	Laboratory Control Sample	10/18/18 1:23	13C2-PFDA	87,152.24	45,064.85	135,194.55	
J8455-FS(0)	VC-SO-FB07-09262018	10/18/18 1:34	13C2-PFDA	96,594.09	45,064.85	135,194.55	
J8456-FS(0)	VC-SO-EB07-09262018	10/18/18 1:45	13C2-PFDA	101,761.01	45,064.85	135,194.55	
J8457-FS(0)	VC-MS09-DW01-0918	10/18/18 1:56	13C2-PFDA	87,727.60	45,064.85	135,194.55	
J8457-FS-D(3)	VC-MS09-DW01-0918	10/18/18 2:07	13C2-PFDA	109,794.49	45,064.85	135,194.55	
J8457-FS-D(5)	VC-MS09-DW01-0918	10/18/18 2:18	13C2-PFDA	99,940.32	45,064.85	135,194.55	
J8457-FS-D(7)	VC-MS09-DW01-0918	10/18/18 2:28	13C2-PFDA	105,726.49	45,064.85	135,194.55	
KB77 CCV	CCV	10/18/18 2:39	13C2-PFDA	102,591.55	45,064.85	135,194.55	
J8458-FS(0)	VC-MS09-DW02-0918	10/18/18 3:01	13C2-PFDA	98,815.08	45,064.85	135,194.55	
J8458-FS-D(3)	VC-MS09-DW02-0918	10/18/18 3:12	13C2-PFDA	104,392.22	45,064.85	135,194.55	
J8458-FS-D(5)	VC-MS09-DW02-0918	10/18/18 3:23	13C2-PFDA	101,346.07	45,064.85	135,194.55	
J8459-FS(0)	VC-MS09-DW03-0918	10/18/18 3:34	13C2-PFDA	102,841.71	45,064.85	135,194.55	
J8459-FS-D(3)	VC-MS09-DW03-0918	10/18/18 3:44	13C2-PFDA	106,889.04	45,064.85	135,194.55	
J8459-FS-D(5)	VC-MS09-DW03-0918	10/18/18 3:55	13C2-PFDA	98,042.39	45,064.85	135,194.55	
J8460-FS(0)	VC-MS09-DW04-0918	10/18/18 4:06	13C2-PFDA	85,957.74	45,064.85	135,194.55	
J8460-FS-D(3)	VC-MS09-DW04-0918	10/18/18 4:17	13C2-PFDA	106,873.68	45,064.85	135,194.55	
J8460-FS-D(5)	VC-MS09-DW04-0918	10/18/18 4:28	13C2-PFDA	97,058.03	45,064.85	135,194.55	
KB76 CCV	CCV	10/18/18 4:39	13C2-PFDA	97,946.16	45,064.85	135,194.55	
J8461-FS(0)	VC-MS09-DW04P-0918	10/18/18 5:01	13C2-PFDA	91,022.01	45,064.85	135,194.55	
J8461-FS-D(3)	VC-MS09-DW04P-0918	10/18/18 5:11	13C2-PFDA	104,903.90	45,064.85	135,194.55	
J8461-FS-D(5)	VC-MS09-DW04P-0918	10/18/18 5:22	13C2-PFDA	100,932.26	45,064.85	135,194.55	
J8462-FS(0)	VC-MS09-DW05-0918	10/18/18 5:33	13C2-PFDA	87,725.86	45,064.85	135,194.55	
J8462-FS-D(3)	VC-MS09-DW05-0918	10/18/18 5:44	13C2-PFDA	103,179.98	45,064.85	135,194.55	
J8462-FS-D(5)	VC-MS09-DW05-0918	10/18/18 5:55	13C2-PFDA	102,031.69	45,064.85	135,194.55	
J8463MS-FS(0)	VC-MS09-DW05-0918-MS	10/18/18 6:06	13C2-PFDA	76,115.48	45,064.85	135,194.55	
J8463MS-FS-D(3)	VC-MS09-DW05-0918-MS	10/18/18 6:17	13C2-PFDA	104,402.09	45,064.85	135,194.55	
J8463MS-FS-D(5)	VC-MS09-DW05-0918-MS	10/18/18 6:28	13C2-PFDA	102,356.74	45,064.85	135,194.55	
KB77 CCV	CCV	10/18/18 6:38	13C2-PFDA	97,865.49	45,064.85	135,194.55	
J8464MSD-FS(0)	VC-MS09-DW05-0918-MSD	10/18/18 7:00	13C2-PFDA	93,141.21	45,064.85	135,194.55	
J8464MSD-FS-D(3)	VC-MS09-DW05-0918-MSD	10/18/18 7:11	13C2-PFDA	99,420.27	45,064.85	135,194.55	
J8464MSD-FS-D(5)	VC-MS09-DW05-0918-MSD	10/18/18 7:22	13C2-PFDA	106,104.65	45,064.85	135,194.55	
J8477-FS(0)	VC-PM367-DW01-0918	10/18/18 7:33	13C2-PFDA	104,476.56	45,064.85	135,194.55	
J8477-FS-D(3)	VC-PM367-DW01-0918	10/18/18 7:44	13C2-PFDA	107,910.85	45,064.85	135,194.55	
J8477-FS-D(5)	VC-PM367-DW01-0918	10/18/18 7:55	13C2-PFDA	97,306.42	45,064.85	135,194.55	
J8478-FS(0)	VC-PM367-DW02-0918	10/18/18 8:06	13C2-PFDA	99,922.13	45,064.85	135,194.55	
J8478-FS-D(3)	VC-PM367-DW02-0918	10/18/18 8:16	13C2-PFDA	92,190.46	45,064.85	135,194.55	
J8478-FS-D(5)	VC-PM367-DW02-0918	10/18/18 8:27	13C2-PFDA	115,921.79	45,064.85	135,194.55	
KB76 CCV	CCV	10/18/18 8:38	13C2-PFDA	99,627.09	45,064.85	135,194.55	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
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Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFDA	90,129.70	45,064.85	135,194.55

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
J8479-FS(0)	VC-PM367-DW03-0918	10/18/18 9:00	13C2-PFDA	98,790.03	45,064.85	135,194.55	
J8479-FS-D(3)	VC-PM367-DW03-0918	10/18/18 9:11	13C2-PFDA	102,395.45	45,064.85	135,194.55	
J8479-FS-D(5)	VC-PM367-DW03-0918	10/18/18 9:22	13C2-PFDA	112,236.28	45,064.85	135,194.55	
J8480-FS(0)	VC-PM367-DW03P-0918	10/18/18 9:33	13C2-PFDA	105,966.79	45,064.85	135,194.55	
J8480-FS-D(3)	VC-PM367-DW03P-0918	10/18/18 9:44	13C2-PFDA	105,350.45	45,064.85	135,194.55	
J8480-FS-D(5)	VC-PM367-DW03P-0918	10/18/18 9:54	13C2-PFDA	100,274.81	45,064.85	135,194.55	
J8481-FS(0)	VC-PM367-DW04-0918	10/18/18 10:05	13C2-PFDA	95,767.06	45,064.85	135,194.55	
J8481-FS-D(3)	VC-PM367-DW04-0918	10/18/18 10:16	13C2-PFDA	91,013.71	45,064.85	135,194.55	
J8481-FS-D(5)	VC-PM367-DW04-0918	10/18/18 10:27	13C2-PFDA	100,519.41	45,064.85	135,194.55	
KB77 CCV	CCV	10/18/18 10:38	13C2-PFDA	98,152.54	45,064.85	135,194.55	
J8482-FS(0)	VC-AQ-FB08-09272018	10/18/18 11:00	13C2-PFDA	91,541.62	45,064.85	135,194.55	
J8483-FS(0)	VC-AQ-EB08-09272018	10/18/18 11:11	13C2-PFDA	128,815.26	45,064.85	135,194.55	
KB76 CCV	CCV	10/18/18 11:22	13C2-PFDA	65,473.33	45,064.85	135,194.55	

Project Client: CH2M

Project Name: CTO-4164 Naval Base Ventura County, California

Project No.: 100110125-01



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C4-PFOS	31,518.26	15,759.13	47,277.39

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C4-PFOS	29,846.55	15,759.13	47,277.39	
KB74	L2	10/17/18 19:57	13C4-PFOS	34,856.85	15,759.13	47,277.39	
KB75	L3	10/17/18 20:08	13C4-PFOS	30,684.77	15,759.13	47,277.39	
KB76	L4	10/17/18 20:19	13C4-PFOS	30,962.75	15,759.13	47,277.39	
KB77	L5	10/17/18 20:30	13C4-PFOS	31,518.26	15,759.13	47,277.39	
KB78	L6	10/17/18 20:41	13C4-PFOS	29,589.19	15,759.13	47,277.39	
KB79	L7	10/17/18 20:52	13C4-PFOS	26,984.04	15,759.13	47,277.39	
KB80 IB	Instrument Blank	10/17/18 21:02	13C4-PFOS	29,371.12	15,759.13	47,277.39	
KB81 ICC	ICC	10/17/18 21:13	13C4-PFOS	33,690.55	15,759.13	47,277.39	
KB76 CCV	CCV	10/18/18 0:51	13C4-PFOS	30,190.57	15,759.13	47,277.39	
CR900PB-FS(0)	Procedural Blank	10/18/18 1:12	13C4-PFOS	29,550.22	15,759.13	47,277.39	
CR901LCS-FS(0)	Laboratory Control Sample	10/18/18 1:23	13C4-PFOS	28,315.56	15,759.13	47,277.39	
J8455-FS(0)	VC-SO-FB07-09262018	10/18/18 1:34	13C4-PFOS	28,355.78	15,759.13	47,277.39	
J8456-FS(0)	VC-SO-EB07-09262018	10/18/18 1:45	13C4-PFOS	32,239.94	15,759.13	47,277.39	
<del>J8457-FS(0)</del>	<del>VC-MS09-DW01-0918</del>	<del>10/18/18 1:56</del>	<del>13C4-PFOS</del>	<del>13,895.54</del>	<del>15,759.13</del>	<del>47,277.39</del>	<del>N</del>
J8457-FS-D(3)	VC-MS09-DW01-0918	10/18/18 2:07	13C4-PFOS	30,188.74	15,759.13	47,277.39	
J8457-FS-D(5)	VC-MS09-DW01-0918	10/18/18 2:18	13C4-PFOS	25,606.40	15,759.13	47,277.39	
J8457-FS-D(7)	VC-MS09-DW01-0918	10/18/18 2:28	13C4-PFOS	29,922.91	15,759.13	47,277.39	
KB77 CCV	CCV	10/18/18 2:39	13C4-PFOS	30,964.35	15,759.13	47,277.39	
J8458-FS(0)	VC-MS09-DW02-0918	10/18/18 3:01	13C4-PFOS	19,798.46	15,759.13	47,277.39	
J8458-FS-D(3)	VC-MS09-DW02-0918	10/18/18 3:12	13C4-PFOS	31,547.70	15,759.13	47,277.39	
J8458-FS-D(5)	VC-MS09-DW02-0918	10/18/18 3:23	13C4-PFOS	32,587.00	15,759.13	47,277.39	
J8459-FS(0)	VC-MS09-DW03-0918	10/18/18 3:34	13C4-PFOS	25,667.32	15,759.13	47,277.39	
J8459-FS-D(3)	VC-MS09-DW03-0918	10/18/18 3:44	13C4-PFOS	30,736.08	15,759.13	47,277.39	
J8459-FS-D(5)	VC-MS09-DW03-0918	10/18/18 3:55	13C4-PFOS	30,220.89	15,759.13	47,277.39	
<del>J8460-FS(0)</del>	<del>VC-MS09-DW04-0918</del>	<del>10/18/18 4:06</del>	<del>13C4-PFOS</del>	<del>15,355.12</del>	<del>15,759.13</del>	<del>47,277.39</del>	<del>N</del>
J8460-FS-D(3)	VC-MS09-DW04-0918	10/18/18 4:17	13C4-PFOS	25,384.81	15,759.13	47,277.39	
J8460-FS-D(5)	VC-MS09-DW04-0918	10/18/18 4:28	13C4-PFOS	24,818.35	15,759.13	47,277.39	
KB76 CCV	CCV	10/18/18 4:39	13C4-PFOS	31,065.56	15,759.13	47,277.39	
J8461-FS(0)	VC-MS09-DW04P-0918	10/18/18 5:01	13C4-PFOS	15,869.01	15,759.13	47,277.39	
J8461-FS-D(3)	VC-MS09-DW04P-0918	10/18/18 5:11	13C4-PFOS	24,489.04	15,759.13	47,277.39	
J8461-FS-D(5)	VC-MS09-DW04P-0918	10/18/18 5:22	13C4-PFOS	28,944.65	15,759.13	47,277.39	
<del>J8462-FS(0)</del>	<del>VC-MS09-DW05-0918</del>	<del>10/18/18 5:33</del>	<del>13C4-PFOS</del>	<del>11,974.38</del>	<del>15,759.13</del>	<del>47,277.39</del>	<del>N</del>
J8462-FS-D(3)	VC-MS09-DW05-0918	10/18/18 5:44	13C4-PFOS	24,893.30	15,759.13	47,277.39	
J8462-FS-D(5)	VC-MS09-DW05-0918	10/18/18 5:55	13C4-PFOS	28,019.07	15,759.13	47,277.39	
<del>J8463MS-FS(0)</del>	<del>VC-MS09-DW05-0918-MS</del>	<del>10/18/18 6:06</del>	<del>13C4-PFOS</del>	<del>12,977.54</del>	<del>15,759.13</del>	<del>47,277.39</del>	<del>N</del>
J8463MS-FS-D(3)	VC-MS09-DW05-0918-MS	10/18/18 6:17	13C4-PFOS	27,359.76	15,759.13	47,277.39	
J8463MS-FS-D(5)	VC-MS09-DW05-0918-MS	10/18/18 6:28	13C4-PFOS	32,757.86	15,759.13	47,277.39	
KB77 CCV	CCV	10/18/18 6:38	13C4-PFOS	33,086.94	15,759.13	47,277.39	
<del>J8464MSD-FS(0)</del>	<del>VC-MS09-DW05-0918-MSD</del>	<del>10/18/18 7:00</del>	<del>13C4-PFOS</del>	<del>15,477.58</del>	<del>15,759.13</del>	<del>47,277.39</del>	<del>N</del>
J8464MSD-FS-D(3)	VC-MS09-DW05-0918-MSD	10/18/18 7:11	13C4-PFOS	26,708.44	15,759.13	47,277.39	
J8464MSD-FS-D(5)	VC-MS09-DW05-0918-MSD	10/18/18 7:22	13C4-PFOS	32,798.98	15,759.13	47,277.39	
<del>J8477-FS(0)</del>	<del>VC-PM367-DW01-0918</del>	<del>10/18/18 7:33</del>	<del>13C4-PFOS</del>	<del>15,648.53</del>	<del>15,759.13</del>	<del>47,277.39</del>	<del>N</del>
J8477-FS-D(3)	VC-PM367-DW01-0918	10/18/18 7:44	13C4-PFOS	27,813.68	15,759.13	47,277.39	
J8477-FS-D(5)	VC-PM367-DW01-0918	10/18/18 7:55	13C4-PFOS	29,995.17	15,759.13	47,277.39	
J8478-FS(0)	VC-PM367-DW02-0918	10/18/18 8:06	13C4-PFOS	20,810.29	15,759.13	47,277.39	
J8478-FS-D(3)	VC-PM367-DW02-0918	10/18/18 8:16	13C4-PFOS	29,008.63	15,759.13	47,277.39	
J8478-FS-D(5)	VC-PM367-DW02-0918	10/18/18 8:27	13C4-PFOS	34,663.71	15,759.13	47,277.39	
KB76 CCV	CCV	10/18/18 8:38	13C4-PFOS	29,569.19	15,759.13	47,277.39	



Project Client: CH2M  
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Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C4-PFOS	31,518.26	15,759.13	47,277.39

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
J8479-FS(0)	VC-PM367-DW03-0918	10/18/18 9:00	13C4-PFOS	18,742.70	15,759.13	47,277.39	
J8479-FS-D(3)	VC-PM367-DW03-0918	10/18/18 9:11	13C4-PFOS	26,494.97	15,759.13	47,277.39	
J8479-FS-D(5)	VC-PM367-DW03-0918	10/18/18 9:22	13C4-PFOS	33,197.15	15,759.13	47,277.39	
J8480-FS(0)	VC-PM367-DW03P-0918	10/18/18 9:33	13C4-PFOS	18,649.40	15,759.13	47,277.39	
J8480-FS-D(3)	VC-PM367-DW03P-0918	10/18/18 9:44	13C4-PFOS	24,653.14	15,759.13	47,277.39	
J8480-FS-D(5)	VC-PM367-DW03P-0918	10/18/18 9:54	13C4-PFOS	29,606.27	15,759.13	47,277.39	
J8481-FS(0)	VC-PM367-DW04-0918	10/18/18 10:05	13C4-PFOS	20,709.58	15,759.13	47,277.39	
J8481-FS-D(3)	VC-PM367-DW04-0918	10/18/18 10:16	13C4-PFOS	24,669.69	15,759.13	47,277.39	
J8481-FS-D(5)	VC-PM367-DW04-0918	10/18/18 10:27	13C4-PFOS	28,122.72	15,759.13	47,277.39	
KB77 CCV	CCV	10/18/18 10:38	13C4-PFOS	31,129.08	15,759.13	47,277.39	
J8482-FS(0)	VC-AQ-FB08-09272018	10/18/18 11:00	13C4-PFOS	25,408.36	15,759.13	47,277.39	
J8483-FS(0)	VC-AQ-EB08-09272018	10/18/18 11:11	13C4-PFOS	36,524.02	15,759.13	47,277.39	
KB76 CCV	CCV	10/18/18 11:22	13C4-PFOS	19,659.10	15,759.13	47,277.39	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFOA	80,369.12	40,184.56	120,553.68

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C2-PFOA	79,095.63	40,184.56	120,553.68	
KB74	L2	10/17/18 19:57	13C2-PFOA	89,971.31	40,184.56	120,553.68	
KB75	L3	10/17/18 20:08	13C2-PFOA	87,799.30	40,184.56	120,553.68	
KB76	L4	10/17/18 20:19	13C2-PFOA	84,567.91	40,184.56	120,553.68	
KB77	L5	10/17/18 20:30	13C2-PFOA	80,369.12	40,184.56	120,553.68	
KB78	L6	10/17/18 20:41	13C2-PFOA	85,964.25	40,184.56	120,553.68	
KB79	L7	10/17/18 20:52	13C2-PFOA	86,636.81	40,184.56	120,553.68	
KB80 IB	Instrument Blank	10/17/18 21:02	13C2-PFOA	85,730.94	40,184.56	120,553.68	
KB81 ICC	ICC	10/17/18 21:13	13C2-PFOA	85,242.44	40,184.56	120,553.68	
KB75 ISC	Instrument Sensitivity Check	10/19/18 18:16	13C2-PFOA	81,344.96	40,184.56	120,553.68	
KB80 IB	Instrument Blank	10/19/18 18:27	13C2-PFOA	68,811.37	40,184.56	120,553.68	
J8464MSD-FS-D(7)	VC-MS09-DW05-0918-MSD	10/19/18 20:27	13C2-PFOA	95,692.21	40,184.56	120,553.68	
KB76 CCV	CCV	10/19/18 20:38	13C2-PFOA	80,189.24	40,184.56	120,553.68	
J8462-FS-D(7)	VC-CS12-SB02-0102	10/19/18 20:59	13C2-PFOA	89,269.66	40,184.56	120,553.68	
J8477-FS-D(7)	VC-CS10-SS03-000H	10/19/18 21:10	13C2-PFOA	82,920.68	40,184.56	120,553.68	
J8478-FS-D(7)	VC-CS10-SB03-0102	10/19/18 21:21	13C2-PFOA	88,862.33	40,184.56	120,553.68	
J8479-FS-D(7)	VC-CS10-SB03-0506	10/19/18 21:32	13C2-PFOA	95,761.40	40,184.56	120,553.68	
J8480-FS-D(7)	VC-CS10-SS04-000H	10/19/18 21:43	13C2-PFOA	75,723.07	40,184.56	120,553.68	
J8481-FS-D(7)	VC-CS10-SB04-0102	10/19/18 21:54	13C2-PFOA	88,934.62	40,184.56	120,553.68	
J8460-FS-D(7)	VC-CS12-SB01-0506	10/19/18 22:05	13C2-PFOA	80,049.29	40,184.56	120,553.68	
J8461-FS-D(7)	VC-CS12-SS02-000H	10/19/18 22:15	13C2-PFOA	82,765.88	40,184.56	120,553.68	
KB77 CCV	CCV	10/19/18 22:26	13C2-PFOA	68,235.47	40,184.56	120,553.68	



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
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Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFDA	90,129.70	45,064.85	135,194.55

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C2-PFDA	100,139.46	45,064.85	135,194.55	
KB74	L2	10/17/18 19:57	13C2-PFDA	103,883.83	45,064.85	135,194.55	
KB75	L3	10/17/18 20:08	13C2-PFDA	98,052.33	45,064.85	135,194.55	
KB76	L4	10/17/18 20:19	13C2-PFDA	99,978.99	45,064.85	135,194.55	
KB77	L5	10/17/18 20:30	13C2-PFDA	90,129.70	45,064.85	135,194.55	
KB78	L6	10/17/18 20:41	13C2-PFDA	104,169.70	45,064.85	135,194.55	
KB79	L7	10/17/18 20:52	13C2-PFDA	100,765.46	45,064.85	135,194.55	
KB80 IB	Instrument Blank	10/17/18 21:02	13C2-PFDA	96,280.28	45,064.85	135,194.55	
KB81 ICC	ICC	10/17/18 21:13	13C2-PFDA	103,402.36	45,064.85	135,194.55	
KB75 ISC	Instrument Sensitivity Check	10/19/18 18:16	13C2-PFDA	90,191.16	45,064.85	135,194.55	
KB80 IB	Instrument Blank	10/19/18 18:27	13C2-PFDA	83,787.58	45,064.85	135,194.55	
J8464MSD-FS-D(7)	VC-MS09-DW05-0918-MSD	10/19/18 20:27	13C2-PFDA	115,171.03	45,064.85	135,194.55	
KB76 CCV	CCV	10/19/18 20:38	13C2-PFDA	87,976.17	45,064.85	135,194.55	
J8462-FS-D(7)	VC-CS12-SB02-0102	10/19/18 20:59	13C2-PFDA	101,536.70	45,064.85	135,194.55	
J8477-FS-D(7)	VC-CS10-SS03-000H	10/19/18 21:10	13C2-PFDA	101,173.42	45,064.85	135,194.55	
J8478-FS-D(7)	VC-CS10-SB03-0102	10/19/18 21:21	13C2-PFDA	98,726.98	45,064.85	135,194.55	
J8479-FS-D(7)	VC-CS10-SB03-0506	10/19/18 21:32	13C2-PFDA	106,127.48	45,064.85	135,194.55	
J8480-FS-D(7)	VC-CS10-SS04-000H	10/19/18 21:43	13C2-PFDA	92,936.13	45,064.85	135,194.55	
J8481-FS-D(7)	VC-CS10-SB04-0102	10/19/18 21:54	13C2-PFDA	102,207.27	45,064.85	135,194.55	
J8460-FS-D(7)	VC-CS12-SB01-0506	10/19/18 22:05	13C2-PFDA	94,271.84	45,064.85	135,194.55	
J8461-FS-D(7)	VC-CS12-SS02-000H	10/19/18 22:15	13C2-PFDA	102,323.33	45,064.85	135,194.55	
KB77 CCV	CCV	10/19/18 22:26	13C2-PFDA	80,687.13	45,064.85	135,194.55	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
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Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C4-PFOS	31,518.26	15,759.13	47,277.39

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C4-PFOS	29,846.55	15,759.13	47,277.39	
KB74	L2	10/17/18 19:57	13C4-PFOS	34,856.85	15,759.13	47,277.39	
KB75	L3	10/17/18 20:08	13C4-PFOS	30,684.77	15,759.13	47,277.39	
KB76	L4	10/17/18 20:19	13C4-PFOS	30,962.75	15,759.13	47,277.39	
KB77	L5	10/17/18 20:30	13C4-PFOS	31,518.26	15,759.13	47,277.39	
KB78	L6	10/17/18 20:41	13C4-PFOS	29,589.19	15,759.13	47,277.39	
KB79	L7	10/17/18 20:52	13C4-PFOS	26,984.04	15,759.13	47,277.39	
KB80 IB	Instrument Blank	10/17/18 21:02	13C4-PFOS	29,371.12	15,759.13	47,277.39	
KB81 ICC	ICC	10/17/18 21:13	13C4-PFOS	33,690.55	15,759.13	47,277.39	
KB75 ISC	Instrument Sensitivity Check	10/19/18 18:16	13C4-PFOS	31,112.11	15,759.13	47,277.39	
KB80 IB	Instrument Blank	10/19/18 18:27	13C4-PFOS	28,447.31	15,759.13	47,277.39	
J8464MSD-FS-D(7)	VC-MS09-DW05-0918-MSD	10/19/18 20:27	13C4-PFOS	32,477.80	15,759.13	47,277.39	
KB76 CCV	CCV	10/19/18 20:38	13C4-PFOS	28,068.56	15,759.13	47,277.39	
J8462-FS-D(7)	VC-CS12-SB02-0102	10/19/18 20:59	13C4-PFOS	32,100.45	15,759.13	47,277.39	
J8477-FS-D(7)	VC-CS10-SS03-000H	10/19/18 21:10	13C4-PFOS	28,986.19	15,759.13	47,277.39	
J8478-FS-D(7)	VC-CS10-SB03-0102	10/19/18 21:21	13C4-PFOS	30,315.79	15,759.13	47,277.39	
J8479-FS-D(7)	VC-CS10-SB03-0506	10/19/18 21:32	13C4-PFOS	34,208.22	15,759.13	47,277.39	
J8480-FS-D(7)	VC-CS10-SS04-000H	10/19/18 21:43	13C4-PFOS	27,718.70	15,759.13	47,277.39	
J8481-FS-D(7)	VC-CS10-SB04-0102	10/19/18 21:54	13C4-PFOS	29,368.27	15,759.13	47,277.39	
J8460-FS-D(7)	VC-CS12-SB01-0506	10/19/18 22:05	13C4-PFOS	24,108.79	15,759.13	47,277.39	
J8461-FS-D(7)	VC-CS12-SS02-000H	10/19/18 22:15	13C4-PFOS	30,218.25	15,759.13	47,277.39	
KB77 CCV	CCV	10/19/18 22:26	13C4-PFOS	26,760.63	15,759.13	47,277.39	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
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Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFOA	80,369.12	40,184.56	120,553.68

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C2-PFOA	79,095.63	40,184.56	120,553.68	
KB74	L2	10/17/18 19:57	13C2-PFOA	89,971.31	40,184.56	120,553.68	
KB75	L3	10/17/18 20:08	13C2-PFOA	87,799.30	40,184.56	120,553.68	
KB76	L4	10/17/18 20:19	13C2-PFOA	84,567.91	40,184.56	120,553.68	
KB77	L5	10/17/18 20:30	13C2-PFOA	80,369.12	40,184.56	120,553.68	
KB78	L6	10/17/18 20:41	13C2-PFOA	85,964.25	40,184.56	120,553.68	
KB79	L7	10/17/18 20:52	13C2-PFOA	86,636.81	40,184.56	120,553.68	
KB80 IB	Instrument Blank	10/17/18 21:02	13C2-PFOA	85,730.94	40,184.56	120,553.68	
KB81 ICC	ICC	10/17/18 21:13	13C2-PFOA	85,242.44	40,184.56	120,553.68	
KB75 ISC	Instrument Sensitivity Check	10/23/18 18:42	13C2-PFOA	85,064.04	40,184.56	120,553.68	
KB80 IB	Instrument Blank	10/23/18 18:53	13C2-PFOA	67,694.64	40,184.56	120,553.68	
J8460-FS-D(9)	VC-CS12-SB01-0506	10/23/18 19:14	13C2-PFOA	78,764.84	40,184.56	120,553.68	
KB77 CCV	CCV	10/23/18 20:52	13C2-PFOA	92,193.68	40,184.56	120,553.68	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
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Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C2-PFDA	90,129.70	45,064.85	135,194.55

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C2-PFDA	100,139.46	45,064.85	135,194.55	
KB74	L2	10/17/18 19:57	13C2-PFDA	103,883.83	45,064.85	135,194.55	
KB75	L3	10/17/18 20:08	13C2-PFDA	98,052.33	45,064.85	135,194.55	
KB76	L4	10/17/18 20:19	13C2-PFDA	99,978.99	45,064.85	135,194.55	
KB77	L5	10/17/18 20:30	13C2-PFDA	90,129.70	45,064.85	135,194.55	
KB78	L6	10/17/18 20:41	13C2-PFDA	104,169.70	45,064.85	135,194.55	
KB79	L7	10/17/18 20:52	13C2-PFDA	100,765.46	45,064.85	135,194.55	
KB80 IB	Instrument Blank	10/17/18 21:02	13C2-PFDA	96,280.28	45,064.85	135,194.55	
KB81 ICC	ICC	10/17/18 21:13	13C2-PFDA	103,402.36	45,064.85	135,194.55	
KB75 ISC	Instrument Sensitivity Check	10/23/18 18:42	13C2-PFDA	101,028.84	45,064.85	135,194.55	
KB80 IB	Instrument Blank	10/23/18 18:53	13C2-PFDA	92,676.29	45,064.85	135,194.55	
J8460-FS-D(9)	VC-CS12-SB01-0506	10/23/18 19:14	13C2-PFDA	89,662.27	45,064.85	135,194.55	
KB77 CCV	CCV	10/23/18 20:52	13C2-PFDA	102,646.04	45,064.85	135,194.55	

Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KB77	L5	10/17/18 20:30	13C4-PFOS	31,518.26	15,759.13	47,277.39

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KB73	L1	10/17/18 19:46	13C4-PFOS	29,846.55	15,759.13	47,277.39	
KB74	L2	10/17/18 19:57	13C4-PFOS	34,856.85	15,759.13	47,277.39	
KB75	L3	10/17/18 20:08	13C4-PFOS	30,684.77	15,759.13	47,277.39	
KB76	L4	10/17/18 20:19	13C4-PFOS	30,962.75	15,759.13	47,277.39	
KB77	L5	10/17/18 20:30	13C4-PFOS	31,518.26	15,759.13	47,277.39	
KB78	L6	10/17/18 20:41	13C4-PFOS	29,589.19	15,759.13	47,277.39	
KB79	L7	10/17/18 20:52	13C4-PFOS	26,984.04	15,759.13	47,277.39	
KB80 IB	Instrument Blank	10/17/18 21:02	13C4-PFOS	29,371.12	15,759.13	47,277.39	
KB81 ICC	ICC	10/17/18 21:13	13C4-PFOS	33,690.55	15,759.13	47,277.39	
KB75 ISC	Instrument Sensitivity Check	10/23/18 18:42	13C4-PFOS	28,461.06	15,759.13	47,277.39	
KB80 IB	Instrument Blank	10/23/18 18:53	13C4-PFOS	30,413.28	15,759.13	47,277.39	
J8460-FS-D(9)	VC-CS12-SB01-0506	10/23/18 19:14	13C4-PFOS	27,425.16	15,759.13	47,277.39	
KB77 CCV	CCV	10/23/18 20:52	13C4-PFOS	30,197.62	15,759.13	47,277.39	

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	10/17/2018 8:52:06 PM	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
PFBS_1	298.9 / 80.0	1.56	22	>10
PFBS_2	298.9 / 99.0	1.56	22	>10
PFHxA_1	313.0 / 269.0	1.89	21	>10
PFHxA_2	313.0 / 119.0	1.88	22	>10
PFHpA_1	363.0 / 319.0	2.29	30	>10
PFHpA_2	363.0 / 169.0	2.30	23	>10
PFHxS_1	399.0 / 80.0	2.32	33	>10
PFHxS_2	399.0 / 99.0	2.32	35	>10
PFOA_1	413.0 / 369.0	2.71	32	>10
PFOA_2	413.0 / 169.0	2.71	30	>10
PFNA_1	463.0 / 419.0	3.11	29	>10
PFNA_2	463.0 / 219.0	3.11	27	>10
PFOS_1	499.0 / 80.0	3.10	43	>10
PFOS_2	499.0 / 99.0	3.10	45	>10
PFDA_1	513.0 / 469.0	3.47	31	>10
PFDA_2	513.0 / 219.0	3.47	34	>10
PFUnA_1	563.0 / 519.0	3.79	30	>10
PFUnA_2	563.0 / 269.0	3.79	43	>10
PFDoA_1	613.0 / 569.0	4.07	39	>10
PFDoA_2	613.0 / 319.0	4.07	46	>10
PFTTrDA_1	663.0 / 619.0	4.32	56	>10
PFTTrDA_2	663.0 / 169.0	4.32	40	>10
PFTeDA_1	713.0 / 669.0	4.54	59	>10
PFTeDA_2	713.0 / 169.0	4.54	64	>10
NMeFOSAA_1	570.0 / 419.0	3.62	29	>10
NMeFOSAA_2	570.0 / 512.0	3.62	39	>10
NEtFOSAA_1	584.0 / 419.0	3.78	31	>10
NEtFOSAA_2	584.0 / 483.0	3.78	19	>10

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	10/17/2018 8:52:06 PM	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
13C2-PFDoA	615.0 / 570.0	4.07	23	>10
d3-MeFOSAA	573.0 / 419.0	3.62	18	>10
d5-EtFOSAA	589.0 / 419.0	3.78	27	>10
13C5-PFHxA	318.0 / 273.0	1.87	23	>10
13C4-PFHpA	367.0 / 322.0	2.28	26	>10
13C8-PFOA	421.0 / 376.0	2.70	47	>10
13C9-PFNA	472.0 / 427.0	3.09	24	>10
13C6-PFDA	519.0 / 474.0	3.45	29	>10
13C7-PFUnA	570.0 / 525.0	3.78	36	>10
13C2-PFTeDA	715.0 / 670.0	4.54	38	>10
13C3-PFBS	302.0 / 99.0	1.54	24	>10
13C3-PFHxS	402.0 / 99.0	2.31	27	>10
13C8-PFOS	507.0 / 99.0	3.09	33	>10

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	10/17/2018 8:52:06 PM	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
13C4-PFBA	217.0 / 172.0	1.16	43	>10
13C2-PFDoA	615.0 / 570.0	4.07	23	>10
d3-MeFOSAA	573.0 / 419.0	3.62	18	>10
d5-EtFOSAA	589.0 / 419.0	3.78	27	>10
13C5-PFPeA	268.0 / 223.0	1.48	41	>10
13C5-PFHxA	318.0 / 273.0	1.87	23	>10
13C4-PFHpA	367.0 / 322.0	2.28	26	>10
13C8-PFOA	421.0 / 376.0	2.70	47	>10
13C9-PFNA	472.0 / 427.0	3.09	24	>10
13C6-PFDA	519.0 / 474.0	3.45	29	>10
13C7-PFUnA	570.0 / 525.0	3.78	36	>10
13C2-PFTeDA	715.0 / 670.0	4.54	38	>10
13C3-PFBS	302.0 / 99.0	1.54	24	>10
13C3-PFHxS	402.0 / 99.0	2.31	27	>10
13C8-PFOS	507.0 / 99.0	3.09	33	>10
13C2-4:2FTS	329.0 / 81.0	1.82	17	>10
13C2-6:2FTS	429.0 / 81.0	2.66	24	>10
13C2-8:2FTS	529.0 / 81.0	3.44	24	>10



Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	10/17/2018 8:52:06 PM	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
PFBS_1	298.9 / 80.0	1.56	22	>10
PFBS_2	298.9 / 99.0	1.56	22	>10
PFHxA_1	313.0 / 269.0	1.89	21	>10
PFHxA_2	313.0 / 119.0	1.88	22	>10
PFHpA_1	363.0 / 319.0	2.29	30	>10
PFHpA_2	363.0 / 169.0	2.30	23	>10
PFHxS_1	399.0 / 80.0	2.32	33	>10
PFHxS_2	399.0 / 99.0	2.32	35	>10
PFOA_1	413.0 / 369.0	2.71	32	>10
PFOA_2	413.0 / 169.0	2.71	30	>10
PFNA_1	463.0 / 419.0	3.11	29	>10
PFNA_2	463.0 / 219.0	3.11	27	>10
PFOS_1	499.0 / 80.0	3.10	41	>10
PFOS_2	499.0 / 99.0	3.10	45	>10
PFDA_1	513.0 / 469.0	3.47	31	>10
PFDA_2	513.0 / 219.0	3.47	34	>10
PFUnA_1	563.0 / 519.0	3.79	30	>10
PFUnA_2	563.0 / 269.0	3.79	43	>10
PFDoA_1	613.0 / 569.0	4.07	39	>10
PFDoA_2	613.0 / 319.0	4.07	46	>10
PFTrDA_1	663.0 / 619.0	4.32	56	>10
PFTrDA_2	663.0 / 169.0	4.32	40	>10
PFTeDA_1	713.0 / 669.0	4.54	59	>10
PFTeDA_2	713.0 / 169.0	4.54	64	>10
NMeFOSAA_1	570.0 / 419.0	3.62	29	>10
NMeFOSAA_2	570.0 / 512.0	3.62	39	>10
NEtFOSAA_1	584.0 / 419.0	3.78	31	>10
NEtFOSAA_2	584.0 / 483.0	3.78	19	>10
PFBA	213.0 / 169.0	1.15	46	>10
PFPeA	263.0 / 219.0	1.49	39	>10
PFHpS_1	449.0 / 80.0	2.71	57	>10
PFHpS_2	449.0 / 99.0	2.71	43	>10
PFDS_1	599.0 / 80.0	3.76	34	>10
PFDS_2	599.0 / 99.0	3.76	31	>10
4:2FTS_1	327.0 / 307.0	1.83	38	>10
4:2FTS_2	327.0 / 80.0	1.83	30	>10
6:2FTS_1	427.0 / 407.0	2.67	27	>10
6:2FTS_2	427.0 / 81.0	2.67	39	>10
8:2FTS_1	527.0 / 507.0	3.44	28	>10
8:2FTS_2	527.0 / 487.0	3.44	40	>10
PFPeS_1	349.0 / 99.0	1.92	49	>10
PFPeS_2	349.0 / 80.0	1.92	40	>10
PFNS_1	549.0 / 99.0	3.44	47	>10
PFNS_2	549.0 / 80.0	3.44	39	>10



## Precision and Bias at the LOQ for PFAS in non-potable Water

Analyte	CAS No.	Average (ng/L)	ST DEV	2 Sigma	n
PFBA	375-22-4	12.29	2.02	4.04	13
PFPeA	2706-90-3	10.73	1.51	3.02	9
PFHxA	307-24-4	9.93	1.30	2.60	39
PFHpA	375-85-9	9.42	1.57	3.14	39
PFOA	335-67-1	10.18	1.47	2.94	40
PFNA	375-95-1	9.64	1.15	2.30	39
PFDA	335-76-2	9.89	1.32	2.64	39
PFUnA	2058-94-8	9.86	1.31	2.62	39
PFDoA	307-55-1	10.75	1.29	2.58	39
PFTTrDA	72629-94-8	11.18	1.54	3.08	39
PFTeDA	376-06-7	10.70	1.91	3.82	39
NMeFOSAA	2355-31-9	10.26	1.87	3.74	39
NEtFOSAA	2991-50-6	9.63	1.54	3.08	39
PFOSA	754-91-6	9.74	1.14	2.28	4
PFBS	375-73-5	10.05	1.44	2.88	40
PFPeS	BDO-2114	9.80	0.96	1.92	5
PFHxS	355-46-4	9.76	1.40	2.80	39
PFHpS	375-99-6	10.96	0.96	1.92	10
PFOS	1763-23-1	10.09	1.36	2.72	38
PFNS	98789-57-2	9.34	1.10	2.20	4
PFDS	2806-15-7	10.13	1.88	3.76	9
4:2FTS	BDO-2205	11.03	1.26	2.52	9
6:2FTS	27619-97-2	12.52	2.91	5.82	9
8:2FTS	39108-34-4	12.11	2.54	5.08	9

# BATTELLE DETECTION LIMITS FOR PFAS IN NON-POTABLE WATER

Analytical SOP 5-369

Extraction SOP 5-370

PFAS by LC-MS/MS Compliant with QSM 5.1 Compliant Table B-15

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
<b>PFBA</b>	375-22-4	0.14	0.5	5.0
<b>PFPeA</b>	2706-90-3	0.31	1.0	5.0
<b>PFHxA</b>	307-24-4	0.19	0.5	5.0
<b>PFHpA</b>	375-85-9	0.16	0.5	5.0
<b>PFOA</b>	335-67-1	0.18	0.5	5.0
<b>PFNA</b>	375-95-1	0.26	1.0	5.0
<b>PFDA</b>	335-76-2	0.16	0.5	5.0
<b>PFUnA</b>	2058-94-8	0.29	1.0	5.0
<b>PFDoA</b>	307-55-1	0.18	0.5	5.0
<b>PFTrDA</b>	72629-94-8	0.15	0.5	5.0
<b>PFTeDA</b>	376-06-7	0.25	1.0	5.0
<b>NMeFOSAA</b>	2355-31-9	0.56	2.0	5.0
<b>NEtFOSAA</b>	2991-50-6	0.49	1.0	5.0
PFOSA	754-91-6	TBD	TBD	TBD
<b>PFBS</b>	375-73-5	0.13	0.5	5.0
PFPeS	BDO-2114	0.67	2.5	5.0
<b>PFHxS</b>	355-46-4	0.11	0.4	5.0
<b>PFHpS</b>	375-99-6	0.20	0.5	5.0
<b>PFOS</b>	1763-23-1	0.19	0.5	5.0
PFNS	98789-57-2	0.46	1.0	5.0
<b>PFDS</b>	2806-15-7	0.17	0.5	5.0
<b>4:2FTS</b>	BDO-2205	0.14	0.5	5.0
<b>6:2FTS</b>	27619-97-2	1.36	2.5	5.0
<b>8:2FTS</b>	39108-34-4	0.22	0.5	5.0

*Analytes on NELAP and ELAP QSM 5.1 Scope of accreditation*

## Analytical Transitions for PFAS in non-potable water, solid, and tissue

EPA 537 MOD DoD QSM 5.1 compliant with Table B-15 requirements

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
PFBA	375-22-4	Target	213.0 / 169.0	NA
PFPeA	2706-90-3	Target	263.0 / 219.0	NA
PFHxA	307-24-4	Target	313.0 / 269.0	313.0 / 119.0
PFHpA	375-85-9	Target	363.0 / 319.0	363.0 / 169.0
PFOA	335-67-1	Target	413.0 / 369.0	413.0 / 169.0
PFNA	375-95-1	Target	463.0 / 419.0	463.0 / 219.0
PFDA	335-76-2	Target	513.0 / 469.0	513.0 / 219.0
PFUnA	2058-94-8	Target	563.0 / 519.0	563.0 / 269.0
PFDaA	307-55-1	Target	613.0 / 569.0	613.0 / 319.0
PFTTrDA	72629-94-8	Target	663.0 / 619.0	663.0 / 169.0
PFTeDA	376-06-7	Target	713.0 / 669.0	713.0 / 169.0
NMeFOSAA	2355-31-9	Target	570.0 / 419.0	570.0 / 512.0
NEtFOSAA	2991-50-6	Target	584.0 / 419.0	584.0 / 483.0
PFOSA	754-91-6	Target	498.0 / 78.0	498.0 / 83.0
PFBS	375-73-5	Target	299.0 / 80.0	299.0 / 99.0
PFPeS	BDO-2114	Target	349.0 / 99.0	249.0 / 80.0
PFHxS	355-46-4	Target	399.0 / 80.0	399.0 / 99.0
PFHpS	375-99-6	Target	449.0 / 80.0	449.0 / 99.0
PFOS	1763-23-1	Target	499.0 / 80.0	499.0 / 99.0
PFNS	98789-57-2	Target	549.0 / 99.0	549.0 / 80.0
PFDS	2806-15-7	Target	599.0 / 80.0	599.0 / 99.0
4:2FTS	BDO-2205	Target	327.0 / 307.0	327.0 / 80.0
6:2FTS	27619-97-2	Target	427.0 / 407.0	427.0 / 81.0
8:2FTS	39108-34-4	Target	527.0 / 507.0	527.0 / 487.0
13C4-PFBA	BDO-2105	SIS <sup>1</sup>	217.0 / 172.0	NA
13C5-PFPeA	BDO-2216	SIS <sup>1</sup>	268.0 / 223.0	NA
13C5-PFHxA	BDO-2217	SIS <sup>1</sup>	318.0 / 273.0	NA

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
13C4-PFHpA	BDO-2218	SIS <sup>1</sup>	367.0 / 322.0	NA
13C8-PFOA	BDO-2219	SIS <sup>1</sup>	421.0 / 376.0	NA
13C9-PFNA	BDO-2221	SIS <sup>1</sup>	472.0 / 427.0	NA
13C6-PFDA	BDO-2222	SIS <sup>1</sup>	519.0 / 474.0	NA
13C7-PFUnA	BDO-2223	SIS <sup>1</sup>	570.0 / 525.0	NA
13C2-PFDoA	BDO-2112	SIS <sup>1</sup>	615.0 / 570.0	NA
13C2-PFTeDA	BDO-2224	SIS <sup>1</sup>	715.0 / 670.0	NA
d3-MeFOSAA	BDO-1838	SIS <sup>1</sup>	573.0 / 419.0	NA
d5-EtFOSAA	BDO-1839	SIS <sup>1</sup>	589.0 / 419.0	NA
13C8-FOSA	BDO-2225	SIS <sup>1</sup>	506.0 / 78.0	NA
13C3-PFBS	BDO-2226	SIS <sup>1</sup>	302.0 / 99.0	NA
13C3-PFHxS	BDO-2227	SIS <sup>1</sup>	402.0 / 99.0	NA
13C8-PFOS	BDO-2228	SIS <sup>1</sup>	507.0 / 99.0	NA
13C2-4:2FTS	BDO-2229	SIS <sup>1</sup>	329.0 / 81.0	NA
13C2-6:2FTS	BDO-2230	SIS <sup>1</sup>	429.0 / 81.0	NA
13C2-8:2FTS	BDO-2220	SIS <sup>1</sup>	529.0 / 81.0	NA
13C3-PFBA	BDO-2231	IS <sup>2</sup>	216.0 / 172.0	NA
13C2-PFOA	BDO-2107	IS <sup>2</sup>	415.0 / 370.0	NA
13C2-PFDA	BDO-2110	IS <sup>2</sup>	515.0 / 470.0	NA
13C4-PFOS	BDO-2121	IS <sup>2</sup>	503.0 / 99.0	NA

<sup>1</sup> – extracted internal standard (surrogate)

<sup>2</sup> – injection internal standard



### Non-Potable Water Calibration to Sample Equivalents

ICAL (ng/L)	PIV (mL)	DF <sup>1</sup>	Sample Size (L)	Sample Equivalent (ng/L) <sup>2</sup>
25	1	1	0.250	0.1
50	1	1	0.250	0.2
100	1	1	0.250	0.4
250	1	1	0.250	1.0
500	1	1	0.250	2.0
1,000	1	1	0.250	4.0
2,500	1	1	0.250	10.0
10,000	1	1	0.250	40.0
20,000	1	1	0.250	80.0

<sup>1</sup> - base level dilution as part of the extraction procedure

<sup>2</sup> - calculated equivalent of a sample based on the ICAL concentration

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# QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

## QTRAP 5500 Preventive Maintenance Checklist

Preventive Maintenance Date:	12-June-2018
Request ID:	9749
Company Name:	Battelle Memorial Institute
Instrument ID:	X60666
Instrument Model:	QTRAP 5500
Instrument Serial Number:	AU23051004

PASS  FAIL

**Any failure will lead to an automatic Service Call being open to investigate fault.**

Preventive Maintenance is performed twice every year unless specified in the Service Contract. It is designed to help maintain optimum system performance and to help diagnose any system deficiencies.

Engineer is required the assigned Request ID for this PM otherwise making this job invalid.

**Comments:** Suspected issue with pulse gas manifold. TRAP testing in POSITIVE mode couldn't be finished because of pulse gas issue. The same issue will be taken care in separate service call.

**Performed By:** Kaustubh Dhayagude **Date:** 12-June-2018

**Approved By :** \_\_\_\_\_ **Date:** \_\_\_\_\_

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**QTRAP 5500****LC/MS/MS Detector System**

Appendix ZEFPM003-2L

**PRE PM PPG PERFORMANCE EVALUATION:**

- Consult Customer concerning the unit overall performance.
- Check Logbook for Services recently performed.
- Check Vacuum Pressure:

CAD Settings	Vacuum Reading ( x 10 <sup>-5</sup> Torr)	Acceptance Criteria
<input checked="" type="checkbox"/> CAD 0	0.6	0.4 to 1.1 x10 <sup>-5</sup> Torr
<input checked="" type="checkbox"/> CAD Low	1.3	Read Only
<input checked="" type="checkbox"/> CAD Medium	2.7	Read Only
<input checked="" type="checkbox"/> CAD High	3.7	Read Only
<input checked="" type="checkbox"/> CAD 12	3.7	2.4 to 4.5 x10 <sup>-5</sup> Torr

- Check for Front end contamination symptoms. Run Q1 POS PPG using PPG 2e-7for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification
  - No degradation or Sensitivity drop
- Check for Q3 contamination symptoms. Run Q3 POS PPG using PPG 2e-7for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification
  - No degradation or Sensitivity drop

**Pre PM PPG Test:** Perform each of the following tests. Optimize ion source position only. The specifications listed for these Pre PM tests are guidelines only, not required to be met.

- Perform Q1 POS using POS PPG 2e-7M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Spec		
Q1 175.133	4.01 e6	Read Only	0.6998	Read Only
Q1 500.380	2.81 e7	Read Only	0.7038	Read Only
Q1 906.673	4.21 e7	Read Only	0.7071	Read Only

- Perform Q3 POS using POS PPG 2e-7M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Spec		
Q3 175.133	5.45 e6	Read Only	0.6873	Read Only
Q3 500.380	2.69 e7	Read Only	0.7591	Read Only
Q3 906.673	4.50 e7	Read Only	0.7843	Read Only



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**QTRAP 5500****LC/MS/MS Detector System**

Appendix ZEFPM003-2L

Perform MSMS POS in Product Ion scan with 609.3 parent and record daughter 195.1 using Reserpine 0.167 pmol/ul at the scan rate of 10 Da/s for 10 MCA. Calculate transmission efficiency comparing Q1POS 609 intensity. Transmission Efficiency: : 28.87% (Read Only)

Mass	MSMS Intensity		MSMS Width Value	Width Specs
	Value	Spec		
Q1 609.3	4.26 e7	Read Only	0.7011	Read Only
MS/MS 195.1	1.23 e7	Read Only	0.7069	Read Only

Perform Q1 NEG using NEG PPG 3e-5M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Spec		
Q1 933.636	1.42 e7	Read Only	0.7686	Read Only

Perform Q3 NEG using NEG PPG 3e-5M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Spec		
Q3 933.636	2.24 e7	Read Only	0.7243	Read Only

Perform Product Ion scan using NEG PPG 3e-5M. Record 10mca.

Mass	Scan Rate	MCA	MSMS Intensity		MSMS Width Value	Width Specs
			Value	Spec		
MSMS 45	10	10	3.31 e6	Read Only	0.6746	Read Only

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**QTRAP 5500****LC/MS/MS Detector System**

Appendix ZEFPM003-2L

**PREVENTIVE MAINTENANCE CHECKLIST:**

- Check Cooling Fans for Turbo Pumps while MS is ON.
- Check QJet and QPS tuning voltage for reference.
- Record AC input Voltage while MS is OFF: \_\_\_\_\_ (200-240VAC).  
If Out-of-Range, notify customer.
- Clean Interface
- Curtain Plate
  - Orifice Plate
  - QJet
  - Q0 Rods.
- Replace Roughing Pump Oil.
- Inspect Oil Exhaust Filter, if Applicable.  N/A
- Clean and inspect built-in divert valve if used.  N/A
- Check Multiplier Voltage, optimize if necessary.
- Replace four Air Filters at the bottom of the mass spectrometer.
- Pump down overnight if possible.  N/A
- Perform Maintenance on Turbo V source.
- Replace Electrode, if necessary.  N/A
- Check Turbo heaters resistances.
- Check if Temperature is reached at 500C with TIS Probe installed.
- Check if Temperature is reached at 500C with APCI Probe installed.  N/A

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**QTRAP 5500****LC/MS/MS Detector System**

Appendix ZEFPM003-2L

**POST PM PPG PERFORMANCE TESTS:**

- Set-up Sample for Infusion.
- Check spray and adjust sprayer's position of the TIS source.
- Check Vacuum Pressure:

CAD Settings	Vacuum Reading ( x 10 <sup>-5</sup> Torr)	Acceptance Criteria
<input checked="" type="checkbox"/> CAD 0	0.7	0.4 to 1.1 x10 <sup>-5</sup> Torr
<input checked="" type="checkbox"/> CAD Low	1.3	Read Only
<input checked="" type="checkbox"/> CAD Medium	2.7	Read Only
<input checked="" type="checkbox"/> CAD High	3.7	Read Only
<input checked="" type="checkbox"/> CAD 12	3.7	2.4 to 4.5 x10 <sup>-5</sup> Torr

- Perform Q1 POS using POS PPG 2e-7M. Mass calibrate to less than 0.1 amu.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Spec		
Scan Rate 10 Da/s Record 10 mca				
Q1 175.133	5.04 e6	≥1.2 <sup>e6</sup>	0.6737	0.6 to 0.8
Q1 500.380	1.60 e7	≥9.0 <sup>e6</sup>	0.6961	0.6 to 0.8
Q1 906.673	2.84 e7	≥1.4 <sup>e7</sup>	0.7179	0.6 to 0.8
Scan Rate 1000 Da/s Record 50 mca				
Q1 906.673	1.33 e8	≥6.8 <sup>e7</sup>	0.7465	0.6 to 0.8

- Perform Q3 POS using POS PPG 2e-7M. Mass calibrate to less than 0.1 amu.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Spec		
Scan Rate 10 Da/s Record 10 mca				
Q3 175.133	5.02 e6	≥1.2 <sup>e6</sup>	0.6719	0.6 to 0.8
Q3 500.380	1.72 e7	≥9.0 <sup>e6</sup>	0.7443	0.6 to 0.8
Q3 906.673	3.00 e7	≥1.4 <sup>e7</sup>	0.7504	0.6 to 0.8
Scan Rate 1000 Da/s Record 50 mca				
Q3 906.673	1.46 e8	≥6.8 <sup>e7</sup>	0.7202	0.6 to 0.8

- Perform "Product of 609.3" POS and record product ion 195.1 using Reserpine 0.167pmol/uL. Record 10 mca. Calculate Transmission efficiency comparing Q1POS 609 intensity.

Transmission Efficiency: 21.10% (≥ 10.0%)

Mass	MSMS Intensity		Width Value	Width Specs
	Value	Spec		
Q1 609.3	5.78 e7	N/A	0.6888	Read Only
MS/MS 195.1	1.22 e7	N/A	0.7003	Read Only

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**QTRAP 5500****LC/MS/MS Detector System**

Appendix ZEFPM003-2L

Perform Q1 NEG using NEG PPG 3e-5M. Mass calibrate to less than 0.1 amu.

Mass	Scan Rate	Mca	Q1 Intensity		Q1 Width Value	Width Specs
			Value	Spec		
Q1 933.636	10	10	1.35 e7	$\geq 1.0^{e7}$	0.7486	0.6 to 0.8
Q1 933.636	1000	50	7.52 e7	$\geq 4.0^{e7}$	0.7206	0.6 to 0.8

Perform Q3 NEG using NEG PPG 3e-5M. Mass calibrate to less than 0.1 amu.

Mass	Scan Rate	Mca	Q3 Intensity		Q3 Width Value	Width Specs
			Value	Spec		
Q3 933.636	10	10	2.15 e7	$\geq 8.0^{e6}$	0.7492	0.6 to 0.8
Q3 933.636	1000	50	8.33 e7	$\geq 4.0^{e7}$	0.7299	0.6 to 0.8

Perform Product Ion scan using NEG PPG 3e-5M.

Mass	Scan Rate	Mca	MSMS Intensity		MSMS Width Value	Width Specs
			Value	Spec		
MSMS 45	10	10	3.33 e6	Read Only	0.6387	Read Only

Perform ER POS 118.087 and 922.01 using ESI Tuning Mix 1:100 in ES Tuning Dilution Solvent. Apply suggested Scan Rate and Record number of MCA. Mass calibrate to less than 0.1 amu.

Mass	Fill Time (ms)	ER Intensity		ER Width Value	Width Specs
		Value	Spec		
ScanRate : 1000 Da/s ; 50 Mca					
ER 118.087	0.05	8.54 e6	$\geq 7.2^{e6}$	0.1473	<0.35
ER 922.010	0.05	4.96 e7	$\geq 2.8^{e6}$	0.2434	<0.35
ScanRate : 10000 Da/s ; 50 Mca					
ER 118.087	0.05		$\geq 2.4^{e7}$		<0.65
ER 922.010	0.05		$\geq 6.8^{e7}$		<0.65

Perform ER NEG 431.982 and 601.978 using ESI Tuning Mix 1:100 in ES Tuning Dilution Solvent. Apply suggested Scan Rate and Record number of MCA. Mass calibrate to less than 0.1 amu.

Mass	Fill Time (ms)	ER Intensity		ER Width Value	Width Specs
		Value	Spec		
ScanRate : 1000 Da/s ; 50 Mca					
ER 431.982	0.05	1.81 e8	$\geq 4.4^{e7}$	0.1862	<0.35
ER 601.978	0.05	1.70 e8	$\geq 5.6^{e7}$	0.1809	<0.35
ScanRate : 10000 Da/s ; 50 Mca					
ER 431.982	0.05	5.72 e8	$\geq 1.2^{e8}$	0.5102	<0.65
ER 601.978	0.05	4.52 e8	$\geq 1.6^{e8}$	0.6187	<0.65

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**QTRAP 5500****LC/MS/MS Detector System**

Appendix ZEFPM003-2L

- Perform EPI POS 397.2 using Reserpine 0.167pmol/uL. Record 20 mca.

Mass	Scan Rate (Da/s)	Q0 Trapping OFF		Q0 Trapping ON	
		Intensity	Spec	Intensity	Spec
EPI 397.2	10000	> 3.0 e6	≥2.0 e6	> 7.0 e6	≥6.4 e6

- Perform MS3 POS full scan Fragmentation ON & OFF using Reserpine 0.167pmol/uL. Record 20 mca.

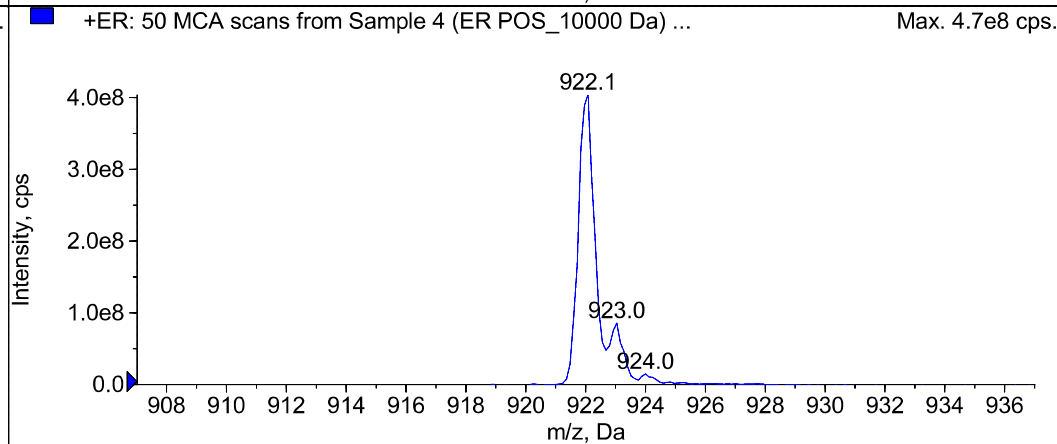
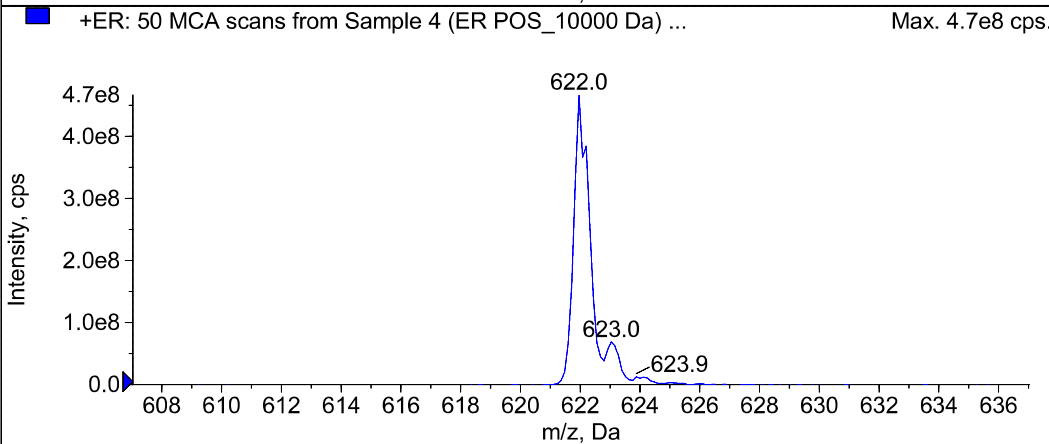
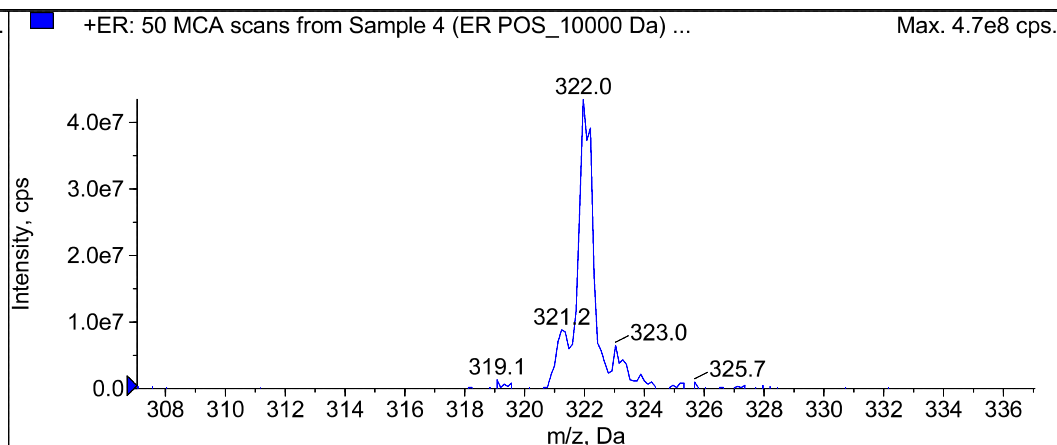
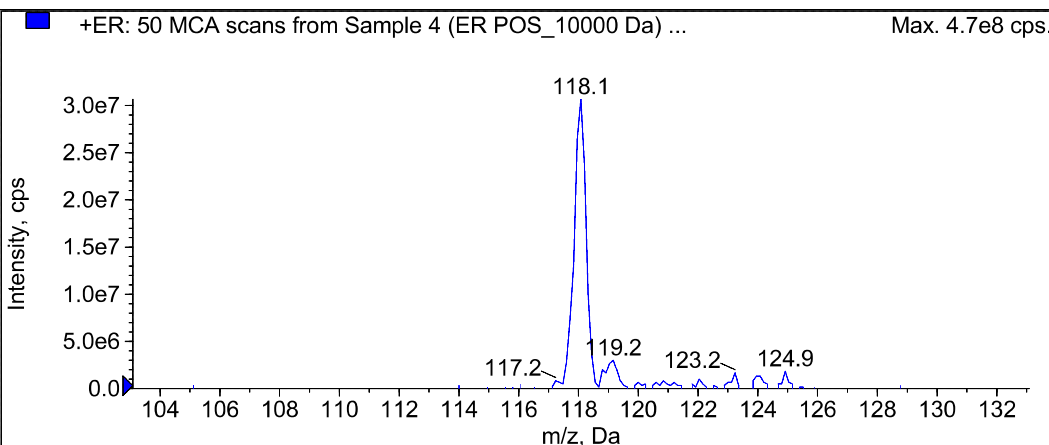
Mass	Scan Rate (Da/s)	Fragamentation OFF		Fragmentation ON	
		Intensity	Spec	Intensity	Spec
MS3 397.2	1000	Yes	Contains only 397.2	N/A	N/A
<input type="checkbox"/> 236 OR <input checked="" type="checkbox"/> 365	1000	Yes	Fragment Intensity	> 2.0 e6	≥1.6x 10 <sup>e6</sup>

**REVIEW:**

- Attach all spectrums printouts to this procedure.
- If any parameter setting access modes were changed during the PM, ensure they are returned to their normal access mode and that their offsets are adjusted to match optimized values from the post-PM acquisition files.
- Empty tuning cache folder, if necessary.  N/A
- Update Service Work Order status
- Fill and replace PM Label.

**END OF PREVENTIVE MAINTENANCE CHECKLIST****Document history:**

06 OCT 2016: Appendix ZEFPM003-2L: Removed requirements to fit Manufacturer's testing criteria.



Peak List for "+ER: 50 MCA scans from Sample 4 (ER POS\_10000 Da) of TRAP ER with NEW Pulse Manifold.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	118.0870	118.0702	3.0667e7	0.4146	0.0168
2	322.0490	322.0509	4.3500e7	0.4945	-1.9159e-3
3	622.0290	622.0370	4.6717e8	0.5757	-8.0044e-3
4	922.0100	922.0101	4.0400e8	0.5732	-1.4148e-4

Battelle Standard ID	Description	Intermediate Solutions	Battelle Reagent ID (purchased solutions)
KB33	PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)	JY27	180726-05
KC19	PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)	KB71	180726-05
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	-	180726-05
KB72	PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)	KB71	180726-05
JZ88	PFAS - DoD Second Source LCS/MS Solution	-	170724-01
KB83	PFAS - DoD High Level Second Source LCS/MS Solution	-	181001-01
KC02	PFAS - DoD High Level Second Source LCS/MS Solution	-	181001-01
KC03	PFAS - DoD Internal Standard Spiking Solution	JY25	180726-04
KC52	PFAS - DoD Internal Standard Spiking Solution	JY25	180726-04
KB73	PFAS - DoD Calibration L1	KB71	180726-05
KB73	PFAS - DoD Calibration L1	JY23	180705-02
KB73	PFAS - DoD Calibration L1	JY25	180726-04
KB74	PFAS - DoD Calibration L2	JY25	180726-04
KB74	PFAS - DoD Calibration L2	KB71	180726-05
KB74	PFAS - DoD Calibration L2	JY23	180705-02
KB75	PFAS - DoD Calibration L3	KB70	180705-02
KB75	PFAS - DoD Calibration L3	KB71	180726-05
KB75	PFAS - DoD Calibration L3	JY25	180726-04
KB76	PFAS - DoD Calibration L4	JY25	180726-04
KB76	PFAS - DoD Calibration L4	KB71	180726-05
KB76	PFAS - DoD Calibration L4	KB70	180705-02
KB77	PFAS - DoD Calibration L5	KB70	180705-02
KB77	PFAS - DoD Calibration L5	KB71	180726-05
KB77	PFAS - DoD Calibration L5	JY25	180726-04
KB78	PFAS - DoD Calibraiton L6	JY25	180726-04
KB78	PFAS - DoD Calibraiton L6	KB70	180705-02
KB78	PFAS - DoD Calibraiton L6	KB71	180726-05
KB79	PFAS - DoD Calibration L7	KB71	180726-05
KB79	PFAS - DoD Calibration L7	KB70	180705-02
KB79	PFAS - DoD Calibration L7	JY25	180726-04
KB80	PFAS - DoD Instrument Blank	JY25	180726-04
KB80	PFAS - DoD Instrument Blank	KB71	180726-05
KB81	PFAS - DoD ICC	KB82	170724-01
KB81	PFAS - DoD ICC	KB71	180726-05
KB81	PFAS - DoD ICC	JY25	180726-04
KB89	PFAS Branched Solution (~5,000 ng/L)	JX28	180618-02
KB89	PFAS Branched Solution (~5,000 ng/L)	JX28	180618-03
KB89	PFAS Branched Solution (~5,000 ng/L)	JX28	180618-04
KB89	PFAS Branched Solution (~5,000 ng/L)	JX28	180618-06
KB89	PFAS Branched Solution (~5,000 ng/L)	JX28	180618-07

It can be done

## Standard Solution Prep Form II

Approved: 

Standard Laboratory ID Number: JX28

Description: PFAS Branched Standard 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)
180618-02	Branched NEtFOSAA Standard (50 µg/mL)	Neat	~50.0000 00	01/17/23	---	---	100 uL	1	10	~0.5000
180618-03	Branched NMeFOSAA Standard (50 µg/mL)	Neat	~50.0000 00	01/17/23	---	---	100 uL	1	10	~0.5000
180618-04	PFOA - Technical Mix	Neat	~50.0000 00	02/16/22	---	---	100 uL	1	10	~0.5000
180618-06	Branched PFHxS Standard (50 µg/mL)	Neat	~50.0000 00	01/04/22	---	---	100 uL	1	10	~0.5000
180618-07	Branched PFOS Standard (50 µg/mL)	Neat	~50.0000 00	01/12/22	---	---	100 uL	1	10	~0.5000

Solution Prepared By: Schultz, Stephanie	Date Prepared: 6/18/2018	Expiration Date: 6/18/2019
Solution Volume 25 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID:	Solvent:	Lot:
Comment:	Methanol (HPLC)	179315

Approved By: Thorn, Jonathan Date: 7/3/2018 8:10:00 AM



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JX28

Description: PFAS Branched Standard Stock

**Stock Id: 180618-02**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethylperfluoro-octanesulfonamidoacetic acid	100	50.00	1	100.000	1	10	0.50000

**Stock Id: 180618-03**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-methylperfluoro-1-octanesulfonamidoacetic acid	100	50.00	1	100.000	1	10	0.50000

**Stock Id: 180618-04**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-n-octanoic Acid	100	50.00	1	100.000	1	10	0.50000

**Stock Id: 180618-06**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-hexanesulfonate	100	50.00	1	100.000	1	10	0.50000

**Stock Id: 180618-07**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
Perfluoro-1-octanesulfonate	100	50.00	1	100.000	1	10	0.50000

**Final Concentrations:**

Analyte:	Conc (ug/mL):
N-ethylperfluoro-octanesulfonamidoacetic acid	.50000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.50000
Perfluoro-1-hexanesulfonate	.50000
Perfluoro-1-octanesulfonate	.50000
Perfluoro-n-octanoic Acid	.50000

**Syringes/Pipettes:**

Stock ID:	Type:	Battelle ID:
180618-02	Pipette	I0793912B
180618-03	Pipette	I0793912B
180618-04	Pipette	I0793912B
180618-06	Pipette	I0793912B
180618-07	Pipette	I0793912B

Solution Prepared By: Schultz, Stephanie Date Prepared: 6/18/2018 Expiration Date: 6/18/2019

Solution Volume 25 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: Approved By: Thorn, Jonathan Date: 7/3/2018 8:10:00 AM



It can be done

## Standard Solution Prep Form II

Approved: 

Standard Laboratory ID Number: JY23

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)
180705-02	PFOA - DOD	Neat	~1.00000 0	06/19/23	---	---	500 uL	1	100	~0.0050

Solution Prepared By: Schultz, Stephanie	Date Prepared: 7/16/2018	Expiration Date: 7/16/2019
Solution Volume 40 mL X 4 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/milli-q water

Approved By: Thorn, Jonathan Date: 8/29/2018 10:10:00 AM



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JY23

Description: PFAS - DoD Low ICAL Stock

Stock Id: 180705-02

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	1.01	1	100.000	1	100	0.00505
(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-butanedisulfonate	500	1.01	1	100.000	1	100	0.00505
Perfluoro-1-hexanesulfonate	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-octanesulfonate	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	1.01	1	100.000	1	100	0.00505
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	.00505
(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-butanedisulfonate	.00505

Solution Prepared By: Schultz, Stephanie Date Prepared: 7/16/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/milli-q water

Approved By: Thorn, Jonathan Date: 8/29/2018 10:10:00 AM





It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JY23

Description: PFAS - DoD Low ICAL Stock

Perfluoro-1-hexanesulfonate	.00505
Perfluoro-1-octanesulfonamide	.00500
Perfluoro-1-octanesulfonate	.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	.00505
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:
180705-02	Pipette	B820865811

Solution Prepared By: Schultz, Stephanie      Date Prepared: 7/16/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 4 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/milli-q water

Approved By: Thorn, Jonathan      Date: 8/29/2018 10:10:00 AM



It can be done

## Standard Solution Prep Form II

Approved: 

Standard Laboratory ID Number: JY25

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)
180726-04	Mass-labelled PFAS injection standards	Neat	~2.00000 0	05/02/22	---	---	625 uL	1	25	~0.0500

Solution Prepared By: Schultz, Stephanie

Date Prepared: 7/16/2018

Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials

Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/Milli-q water ( RP-180803-1)

Approved By: Thorn, Jonathan Date: 8/29/2018 10:09:00 AM



It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JY25

Description: PFAS - DoD Internal Standard Stock Solution

Stock Id: 180726-04

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	625	2.00	1	100.000	1	25	0.05000
13C2-PFOA	625	2.00	1	100.000	1	25	0.05000
13C3-PFBA	625	2.00	1	100.000	1	25	0.05000
13C4-PFOS	625	1.91	1	100.000	1	25	0.04785

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-PFDA	.05000
13C2-PFOA	.05000
13C3-PFBA	.05000
13C4-PFOS	.04785

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
180726-04	Pipette	B820865811

Solution Prepared By: Schultz, Stephanie Date Prepared: 7/16/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/Milli-q water ( RP-180803-1)

Approved By: Thorn, Jonathan Date: 8/29/2018 10:09:00 AM



It can be done

## Standard Solution Prep Form II

Approved: 

Standard Laboratory ID Number: JY27

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)
180726-05	Mass-labelled PFAS Extraction Standard Solution	Neat	~1.00000 0	02/07/23	---	---	1000 uL	1	20	~0.0500

Solution Prepared By: Schultz, Stephanie

Date Prepared: 7/16/2018

Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials

Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/Milli-q water (RP-180803-1)

Approved By: Schumitz, Denise Date: 8/8/2018 9:17:00 AM



**BATTELLE**

It can be done

## Standard Solution Concentrations

Approved: 

Standard Laboratory ID Number: JY27

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Stock Id: 180726-05

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	1000	0.94	1	100.000	1	20	0.04675
13C2-6:2FTS	1000	0.95	1	100.000	1	20	0.04745
13C2-8:2FTS	1000	0.96	1	100.000	1	20	0.04790
13C2-PFDoA	1000	1.00	1	100.000	1	20	0.05000
13C2-PFTeDA	1000	1.00	1	100.000	1	20	0.05000
13C3-PFBS	1000	0.93	1	100.000	1	20	0.04645
13C3-PFHxS	1000	0.95	1	100.000	1	20	0.04730
13C4-PFBA	1000	1.00	1	100.000	1	20	0.05000
13C4-PFHpA	1000	1.00	1	100.000	1	20	0.05000
13C5-PFHxA	1000	1.00	1	100.000	1	20	0.05000
13C5-PFPeA	1000	1.00	1	100.000	1	20	0.05000
13C6-PFDA	1000	1.00	1	100.000	1	20	0.05000
13C7-PFUnA	1000	1.00	1	100.000	1	20	0.05000
13C8-FOSA	1000	1.00	1	100.000	1	20	0.05000
13C8-PFOA	1000	1.00	1	100.000	1	20	0.05000
13C8-PFOS	1000	0.96	1	100.000	1	20	0.04785
13C9-PFNA	1000	1.00	1	100.000	1	20	0.05000
d3-MeFOSAA	1000	1.00	1	100.000	1	20	0.05000
d5-EtFOSAA	1000	1.00	1	100.000	1	20	0.05000

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.04675
13C2-6:2FTS	.04745
13C2-8:2FTS	.04790
13C2-PFDoA	.05000
13C2-PFTeDA	.05000
13C3-PFBS	.04645
13C3-PFHxS	.04730
13C4-PFBA	.05000
13C4-PFHpA	.05000
13C5-PFHxA	.05000
13C5-PFPeA	.05000
13C6-PFDA	.05000
13C7-PFUnA	.05000
13C8-FOSA	.05000

Solution Prepared By: Schultz, Stephanie Date Prepared: 7/16/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/Milli-q water (RP-180803-1)

Approved By: Schumitz, Denise Date: 8/8/2018 9:17:00 AM





It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: JY27

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

13C8-PFOA	.05000
13C8-PFOS	.04785
13C9-PFNA	.05000
d3-MeFOSAA	.05000
d5-EtFOSAA	.05000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
180726-05	Pipette	B820865811

Solution Prepared By: Schultz, Stephanie	Date Prepared: 7/16/2018	Expiration Date: 7/16/2019
Solution Volume 40 mL X 1 Vials	Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107	

Comment: 96/4 Methanol/Milli-q water (RP-180803-1)

Approved By: Schumitz, Denise Date: 8/8/2018 9:17:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **JZ88**

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)
170724-01	PFOA- 2nd Source	Neat	~1.00000 0	03/22/22	---	---	1000 uL	1	20	~0.0500

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 8/20/2018	<b>Expiration Date:</b> 8/20/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Thorn, Jonathan Date: 8/21/2018 7:17:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **JZ88**

Description: PFAS - DoD Second Source LCS/MS Solution

Stock Id: **170724-01**

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-butanefulfonate	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-1-hexanesulfonate	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-octanesulfonate	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-butanefulfonate	.05050

Solution Prepared By: Schultz, Stephanie Date Prepared: 8/20/2018 Expiration Date: 8/20/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Thorn, Jonathan Date: 8/21/2018 7:17:00 AM



It can be done

**Standard Solution Concentrations** Approved:

**Standard Laboratory ID Number: JZ88**

**Description:** PFAS - DoD Second Source LCS/MS Solution

Perfluoro-1-hexanesulfonate	.05050
Perfluoro-1-octanesulfonamide	.05000
Perfluoro-1-octanesulfonate	.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:
170724-01	Pipette	C0982448K

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 8/20/2018	<b>Expiration Date:</b> 8/20/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan **Date:** 8/21/2018 7:17:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB33**

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)
JY27	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	07/16/19	---	---	2500 uL	1	25	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 9/24/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/Milli-q water

Approved By: Thorn, Jonathan Date: 9/24/2018 3:46:00 PM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB33**

Description: PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

Stock Id: **JY27**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	2500	0.05	---	---	1	25	0.00468
13C2-6:2FTS	2500	0.05	---	---	1	25	0.00475
13C2-8:2FTS	2500	0.05	---	---	1	25	0.00479
13C2-PFDoA	2500	0.05	---	---	1	25	0.00500
13C2-PFTeDA	2500	0.05	---	---	1	25	0.00500
13C3-PFBS	2500	0.05	---	---	1	25	0.00465
13C3-PFHxS	2500	0.05	---	---	1	25	0.00473
13C4-PFBA	2500	0.05	---	---	1	25	0.00500
13C4-PFHpA	2500	0.05	---	---	1	25	0.00500
13C5-PFHxA	2500	0.05	---	---	1	25	0.00500
13C5-PFPeA	2500	0.05	---	---	1	25	0.00500
13C6-PFDA	2500	0.05	---	---	1	25	0.00500
13C7-PFUnA	2500	0.05	---	---	1	25	0.00500
13C8-FOSA	2500	0.05	---	---	1	25	0.00500
13C8-PFOA	2500	0.05	---	---	1	25	0.00500
13C8-PFOS	2500	0.05	---	---	1	25	0.00478
13C9-PFNA	2500	0.05	---	---	1	25	0.00500
d3-MeFOSAA	2500	0.05	---	---	1	25	0.00500
d5-EtFOSAA	2500	0.05	---	---	1	25	0.00500

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00468
13C2-6:2FTS	.00475
13C2-8:2FTS	.00479
13C2-PFDoA	.00500
13C2-PFTeDA	.00500
13C3-PFBS	.00465
13C3-PFHxS	.00473
13C4-PFBA	.00500
13C4-PFHpA	.00500
13C5-PFHxA	.00500
13C5-PFPeA	.00500
13C6-PFDA	.00500
13C7-PFUnA	.00500
13C8-FOSA	.00500

Solution Prepared By: Schultz, Stephanie      Date Prepared: 9/24/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/Milli-q water

Approved By: Thorn, Jonathan      Date: 9/24/2018 3:46:00 PM



**It can be done**

## Standard Solution Concentrations

Approved:

**Standard Laboratory ID Number: KB33**

**Description:** PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)

13C8-PFOA	.00500
13C8-PFOS	.00478
13C9-PFNA	.00500
d3-MeFOSAA	.00500
d5-EtFOSAA	.00500

### Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY27	Pipette	OU16914

**Solution Prepared By:** Schultz, Stephanie      **Date Prepared:** 9/24/2018      **Expiration Date:** 7/16/2019

**Solution Volume** 40 mL X 1      **Vials Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/Milli-q water

**Approved By:** Thorn, Jonathan      **Date:** 9/24/2018 3:46:00 PM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB70**

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)
180705-02	PFOA - ICAL Mix	Neat	~1.00000 0	06/19/23	---	---	1000 uL	1	20	~0.0500

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/milli-q water

Approved By: Thorn, Jonathan Date: 10/12/2018 8:03:00 AM





It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB70**

Description: PFAS - DoD High ICAL Stock

Stock Id: **180705-02**

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	1000	1.01	1	100.000	1	20	0.05050
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	1.01	1	100.000	1	20	0.05050
(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-butanedisulfonate	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-1-hexanesulfonate	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-octanesulfonate	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	1.01	1	100.000	1	20	0.05050
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	.05050
(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-butanedisulfonate	.05050

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 10/1/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/milli-q water

Approved By: Thorn, Jonathan Date: 10/12/2018 8:03:00 AM



It can be done

**Standard Solution Concentrations** Approved:

**Standard Laboratory ID Number:**      **KB70**

**Description:** PFAS - DoD High ICAL Stock

Perfluoro-1-hexanesulfonate	.05050
Perfluoro-1-octanesulfonamide	.05000
Perfluoro-1-octanesulfonate	.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	.05050
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:
180705-02	Pipette	B820865811

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	
<b>Comment:</b> 96/4 Methanol/milli-q water		

**Approved By:** Thorn, Jonathan      **Date:** 10/12/2018 8:03:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB71**

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)
180726-05	Mass-labelled PFAS Extraction Standard Solution	Neat	~1.00000 0	02/07/23	---	---	1000 uL	1	20	~0.0500

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/4/2018 2:44:00 PM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB71**

Description: PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

Stock Id: **180726-05**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	1000	0.94	1	100.000	1	20	0.04675
13C2-6:2FTS	1000	0.95	1	100.000	1	20	0.04745
13C2-8:2FTS	1000	0.96	1	100.000	1	20	0.04790
13C2-PFDoA	1000	1.00	1	100.000	1	20	0.05000
13C2-PFTeDA	1000	1.00	1	100.000	1	20	0.05000
13C3-PFBS	1000	0.93	1	100.000	1	20	0.04645
13C3-PFHxS	1000	0.95	1	100.000	1	20	0.04730
13C4-PFBA	1000	1.00	1	100.000	1	20	0.05000
13C4-PFHpA	1000	1.00	1	100.000	1	20	0.05000
13C5-PFHxA	1000	1.00	1	100.000	1	20	0.05000
13C5-PFPeA	1000	1.00	1	100.000	1	20	0.05000
13C6-PFDA	1000	1.00	1	100.000	1	20	0.05000
13C7-PFUnA	1000	1.00	1	100.000	1	20	0.05000
13C8-FOSA	1000	1.00	1	100.000	1	20	0.05000
13C8-PFOA	1000	1.00	1	100.000	1	20	0.05000
13C8-PFOS	1000	0.96	1	100.000	1	20	0.04785
13C9-PFNA	1000	1.00	1	100.000	1	20	0.05000
d3-MeFOSAA	1000	1.00	1	100.000	1	20	0.05000
d5-EtFOSAA	1000	1.00	1	100.000	1	20	0.05000

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.04675
13C2-6:2FTS	.04745
13C2-8:2FTS	.04790
13C2-PFDoA	.05000
13C2-PFTeDA	.05000
13C3-PFBS	.04645
13C3-PFHxS	.04730
13C4-PFBA	.05000
13C4-PFHpA	.05000
13C5-PFHxA	.05000
13C5-PFPeA	.05000
13C6-PFDA	.05000
13C7-PFUnA	.05000
13C8-FOSA	.05000

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 10/1/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/Milli-q water

Approved By: Schumitz, Denise      Date: 10/4/2018 2:44:00 PM



**It can be done**

**Standard Solution Concentrations** Approved:

**Standard Laboratory ID Number: KB71**

**Description:** PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)

13C8-PFOA	.05000
13C8-PFOS	.04785
13C9-PFNA	.05000
d3-MeFOSAA	.05000
d5-EtFOSAA	.05000

**Syringes/Pipettes:**

Stock ID:	Type:	Battelle ID:
180726-05	Pipette	B820865811

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 <b>Vials Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107		
<b>Comment:</b> 96/4 Methanol/Milli-q water		

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB72**

Description: PFAS - DoD Low Level Labelled Extracted Internal Standard (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)
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	2500 uL	1	25	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/4/2018 2:44:00 PM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB72**

Description: PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)

Stock Id: **KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	2500	0.05	---	---	1	25	0.00468
13C2-6:2FTS	2500	0.05	---	---	1	25	0.00475
13C2-8:2FTS	2500	0.05	---	---	1	25	0.00479
13C2-PFDoA	2500	0.05	---	---	1	25	0.00500
13C2-PFTeDA	2500	0.05	---	---	1	25	0.00500
13C3-PFBS	2500	0.05	---	---	1	25	0.00465
13C3-PFHxS	2500	0.05	---	---	1	25	0.00473
13C4-PFBA	2500	0.05	---	---	1	25	0.00500
13C4-PFHpA	2500	0.05	---	---	1	25	0.00500
13C5-PFHxA	2500	0.05	---	---	1	25	0.00500
13C5-PFPeA	2500	0.05	---	---	1	25	0.00500
13C6-PFDA	2500	0.05	---	---	1	25	0.00500
13C7-PFUnA	2500	0.05	---	---	1	25	0.00500
13C8-FOSA	2500	0.05	---	---	1	25	0.00500
13C8-PFOA	2500	0.05	---	---	1	25	0.00500
13C8-PFOS	2500	0.05	---	---	1	25	0.00478
13C9-PFNA	2500	0.05	---	---	1	25	0.00500
d3-MeFOSAA	2500	0.05	---	---	1	25	0.00500
d5-EtFOSAA	2500	0.05	---	---	1	25	0.00500

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00468
13C2-6:2FTS	.00475
13C2-8:2FTS	.00479
13C2-PFDoA	.00500
13C2-PFTeDA	.00500
13C3-PFBS	.00465
13C3-PFHxS	.00473
13C4-PFBA	.00500
13C4-PFHpA	.00500
13C5-PFHxA	.00500
13C5-PFPeA	.00500
13C6-PFDA	.00500
13C7-PFUnA	.00500
13C8-FOSA	.00500

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 10/1/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/4/2018 2:44:00 PM



**It can be done**

**Standard Solution Concentrations** Approved:

**Standard Laboratory ID Number: KB72**

**Description:** PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)

13C8-PFOA	.00500
13C8-PFOS	.00478
13C9-PFNA	.00500
d3-MeFOSAA	.00500

**Syringes/Pipettes:**

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Schumitz, Denise **Date:** 10/4/2018 2:44:00 PM





It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB73**

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)
JY23	PFAS - DoD Low ICAL Stock	Solution	~0	07/16/19	---	---	200 uL	1	10	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	50 uL	1	10	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	50 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB73**

Description: PFAS - DoD Calibration L1

Stock Id: **JY23**

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	0.01	---	---	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-butanedisulfonate	200	0.01	---	---	1	10	0.00010
Perfluoro-1-hexanesulfonate	200	0.01	---	---	1	10	0.00010
Perfluoro-1-octanesulfonamide	200	0.01	---	---	1	10	0.00010
Perfluoro-1-octanesulfonate	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: **JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	50	0.05	---	---	1	10	0.00025
13C2-PFOA	50	0.05	---	---	1	10	0.00025
13C3-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFOS	50	0.05	---	---	1	10	0.00024

Stock Id: **KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	50	0.05	---	---	1	10	0.00023

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB73**

Description: PFAS - DoD Calibration L1

13C2-6:2FTS	50	0.05	---	---	1	10	0.00024
13C2-8:2FTS	50	0.05	---	---	1	10	0.00024
13C2-PFDoA	50	0.05	---	---	1	10	0.00025
13C2-PFTeDA	50	0.05	---	---	1	10	0.00025
13C3-PFBS	50	0.05	---	---	1	10	0.00023
13C3-PFHxS	50	0.05	---	---	1	10	0.00024
13C4-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFHpA	50	0.05	---	---	1	10	0.00025
13C5-PFHxA	50	0.05	---	---	1	10	0.00025
13C5-PFPeA	50	0.05	---	---	1	10	0.00025
13C6-PFDA	50	0.05	---	---	1	10	0.00025
13C7-PFUnA	50	0.05	---	---	1	10	0.00025
13C8-FOSA	50	0.05	---	---	1	10	0.00025
13C8-PFOA	50	0.05	---	---	1	10	0.00025
13C8-PFOS	50	0.05	---	---	1	10	0.00024
13C9-PFNA	50	0.05	---	---	1	10	0.00025
d3-MeFOSAA	50	0.05	---	---	1	10	0.00025
d5-EtFOSAA	50	0.05	---	---	1	10	0.00025

## 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
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB73**

Description: PFAS - DoD Calibration L1

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.00010
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00010
Perfluoro-1-butanefulfonate	.00010
Perfluoro-1-hexanesulfonate	.00010
Perfluoro-1-octanesulfonamide	.00010
Perfluoro-1-octanesulfonate	.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 perfluoro-1-pentanesulfonate	.00010

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY23	Pipette	B814657482
JY25	Pipette	B814659662
KB71	Pipette	B814659662

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB74**

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)
JY23	PFAS - DoD Low ICAL Stock	Solution	~0	07/16/19	---	---	500 uL	1	10	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	50 uL	1	10	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	50 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB74**

Description: PFAS - DoD Calibration L2

Stock Id: **JY23**

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-butanedisulfonate	500	0.01	---	---	1	10	0.00025
Perfluoro-1-hexanesulfonate	500	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulfonamide	500	0.01	---	---	1	10	0.00025
Perfluoro-1-octanesulfonate	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: **JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	50	0.05	---	---	1	10	0.00025
13C2-PFOA	50	0.05	---	---	1	10	0.00025
13C3-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFOS	50	0.05	---	---	1	10	0.00024

Stock Id: **KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	50	0.05	---	---	1	10	0.00023

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB74**

Description: PFAS - DoD Calibration L2

13C2-6:2FTS	50	0.05	---	---	1	10	0.00024
13C2-8:2FTS	50	0.05	---	---	1	10	0.00024
13C2-PFDoA	50	0.05	---	---	1	10	0.00025
13C2-PFTeDA	50	0.05	---	---	1	10	0.00025
13C3-PFBS	50	0.05	---	---	1	10	0.00023
13C3-PFHxS	50	0.05	---	---	1	10	0.00024
13C4-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFHpA	50	0.05	---	---	1	10	0.00025
13C5-PFHxA	50	0.05	---	---	1	10	0.00025
13C5-PFPeA	50	0.05	---	---	1	10	0.00025
13C6-PFDA	50	0.05	---	---	1	10	0.00025
13C7-PFUnA	50	0.05	---	---	1	10	0.00025
13C8-FOSA	50	0.05	---	---	1	10	0.00025
13C8-PFOA	50	0.05	---	---	1	10	0.00025
13C8-PFOS	50	0.05	---	---	1	10	0.00024
13C9-PFNA	50	0.05	---	---	1	10	0.00025
d3-MeFOSAA	50	0.05	---	---	1	10	0.00025
d5-EtFOSAA	50	0.05	---	---	1	10	0.00025

## 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
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB74**

Description: PFAS - DoD Calibration L2

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.00025
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00025
Perfluoro-1-butanefulfonate	.00025
Perfluoro-1-hexanesulfonate	.00025
Perfluoro-1-octanesulfonamide	.00025
Perfluoro-1-octanesulfonate	.00025
Perfluoro-n-butyric 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 perfluoro-1-pentanesulfonate	.00025

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY23	Pipette	B820865811
JY25	Pipette	B814659662
KB71	Pipette	B814659662

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:40:00 AM





It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB75**

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)
KB70	PFAS - DoD High ICAL Stock	Solution	~0	10/01/19	---	---	100 uL	1	10	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	50 uL	1	10	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	50 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB75**

Description: PFAS - DoD Calibration L3

**Stock Id: JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	50	0.05	---	---	1	10	0.00025
13C2-PFOA	50	0.05	---	---	1	10	0.00025
13C3-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFOS	50	0.05	---	---	1	10	0.00024

**Stock Id: KB70**

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	0.00051
(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
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-butanedisulfonate	100	0.05	---	---	1	10	0.00051
Perfluoro-1-hexanesulfonate	100	0.05	---	---	1	10	0.00051
Perfluoro-1-octanesulfonamide	100	0.05	---	---	1	10	0.00050
Perfluoro-1-octanesulfonate	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	0.00051
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

**Stock Id: KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	50	0.05	---	---	1	10	0.00023

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB75**

Description: PFAS - DoD Calibration L3

13C2-6:2FTS	50	0.05	---	---	1	10	0.00024
13C2-8:2FTS	50	0.05	---	---	1	10	0.00024
13C2-PFDoA	50	0.05	---	---	1	10	0.00025
13C2-PFTeDA	50	0.05	---	---	1	10	0.00025
13C3-PFBS	50	0.05	---	---	1	10	0.00023
13C3-PFHxS	50	0.05	---	---	1	10	0.00024
13C4-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFHpA	50	0.05	---	---	1	10	0.00025
13C5-PFHxA	50	0.05	---	---	1	10	0.00025
13C5-PFPeA	50	0.05	---	---	1	10	0.00025
13C6-PFDA	50	0.05	---	---	1	10	0.00025
13C7-PFUnA	50	0.05	---	---	1	10	0.00025
13C8-FOSA	50	0.05	---	---	1	10	0.00025
13C8-PFOA	50	0.05	---	---	1	10	0.00025
13C8-PFOS	50	0.05	---	---	1	10	0.00024
13C9-PFNA	50	0.05	---	---	1	10	0.00025
d3-MeFOSAA	50	0.05	---	---	1	10	0.00025
d5-EtFOSAA	50	0.05	---	---	1	10	0.00025

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00051
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00051
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00050
(Na) Perfluoro-1-decanesulfonate	.00051
(NA) Perfluoro-1-heptanesulfonate	.00050
(Na) Perfluoro-1-nonanesulfonate	.00051
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB75**

Description: PFAS - DoD Calibration L3

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.00050
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00050
Perfluoro-1-butanefulfonate	.00051
Perfluoro-1-hexanesulfonate	.00051
Perfluoro-1-octanesulfonamide	.00050
Perfluoro-1-octanesulfonate	.00050
Perfluoro-n-butyric 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	.00051
Perfluoro-n-tetradecanoic acid	.00050
Perfluoro-n-tridecanoic acid	.00050
Perfluoro-n-undecanoic acid	.00050
Sodium perfluoro-1-pentanesulfonate	.00050

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	B814659662
KB70	Pipette	B814659662
KB71	Pipette	B814659662

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB76**

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)
KB70	PFAS - DoD High ICAL Stock	Solution	~0	10/01/19	---	---	1000 uL	1	50	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	250 uL	1	50	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	250 uL	1	50	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 2 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB76**

Description: PFAS - DoD Calibration L4

**Stock Id: JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	250	0.05	---	---	1	50	0.00025
13C2-PFOA	250	0.05	---	---	1	50	0.00025
13C3-PFBA	250	0.05	---	---	1	50	0.00025
13C4-PFOS	250	0.05	---	---	1	50	0.00024

**Stock Id: KB70**

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	50	0.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	0.05	---	---	1	50	0.00101
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	0.05	---	---	1	50	0.00100
(Na) Perfluoro-1-decanesulfonate	1000	0.05	---	---	1	50	0.00101
(NA) Perfluoro-1-heptanesulfonate	1000	0.05	---	---	1	50	0.00100
(Na) Perfluoro-1-nonanesulfonate	1000	0.05	---	---	1	50	0.00101
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	0.05	---	---	1	50	0.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-1-butanedisulfonate	1000	0.05	---	---	1	50	0.00101
Perfluoro-1-hexanesulfonate	1000	0.05	---	---	1	50	0.00101
Perfluoro-1-octanesulfonamide	1000	0.05	---	---	1	50	0.00100
Perfluoro-1-octanesulfonate	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-butanoic Acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-decanoic Acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-dodecanoic acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-heptanoic Acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-hexanoic acid	1000	0.05	---	---	1	50	0.00101
Perfluoro-n-octanoic Acid	1000	0.05	---	---	1	50	0.00100
Perfluorononanoic Acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-pentanoic acid	1000	0.05	---	---	1	50	0.00101
Perfluoro-n-tetradecanoic acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-tridecanoic acid	1000	0.05	---	---	1	50	0.00100
Perfluoro-n-undecanoic acid	1000	0.05	---	---	1	50	0.00100
Sodium perfluoro-1-pentanesulfonate	1000	0.05	---	---	1	50	0.00100

**Stock Id: KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	250	0.05	---	---	1	50	0.00023

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB76**

Description: PFAS - DoD Calibration L4

13C2-6:2FTS	250	0.05	---	---	1	50	0.00024
13C2-8:2FTS	250	0.05	---	---	1	50	0.00024
13C2-PFDoA	250	0.05	---	---	1	50	0.00025
13C2-PFTeDA	250	0.05	---	---	1	50	0.00025
13C3-PFBS	250	0.05	---	---	1	50	0.00023
13C3-PFHxS	250	0.05	---	---	1	50	0.00024
13C4-PFBA	250	0.05	---	---	1	50	0.00025
13C4-PFHpA	250	0.05	---	---	1	50	0.00025
13C5-PFHxA	250	0.05	---	---	1	50	0.00025
13C5-PFPeA	250	0.05	---	---	1	50	0.00025
13C6-PFDA	250	0.05	---	---	1	50	0.00025
13C7-PFUnA	250	0.05	---	---	1	50	0.00025
13C8-FOSA	250	0.05	---	---	1	50	0.00025
13C8-PFOA	250	0.05	---	---	1	50	0.00025
13C8-PFOS	250	0.05	---	---	1	50	0.00024
13C9-PFNA	250	0.05	---	---	1	50	0.00025
d3-MeFOSAA	250	0.05	---	---	1	50	0.00025
d5-EtFOSAA	250	0.05	---	---	1	50	0.00025

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00101
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00101
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00100
(Na) Perfluoro-1-decanesulfonate	.00101
(NA) Perfluoro-1-heptanesulfonate	.00100
(Na) Perfluoro-1-nonanesulfonate	.00101
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:40:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB76**

Description: PFAS - DoD Calibration L4

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00100
Perfluoro-1-butanefluoride	.00101
Perfluoro-1-hexanesulfonate	.00101
Perfluoro-1-octanesulfonamide	.00100
Perfluoro-1-octanesulfonate	.00100
Perfluoro-n-butyric 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	.00101
Perfluoro-n-tetradecanoic acid	.00100
Perfluoro-n-tridecanoic acid	.00100
Perfluoro-n-undecanoic acid	.00100
Sodium perfluoro-1-pentanesulfonate	.00100

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	B814657482
KB70	Pipette	B820865811
KB71	Pipette	B814657482

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:40:00 AM





It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB77**

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)
KB70	PFAS - DoD High ICAL Stock	Solution	~0	10/01/19	---	---	2500 uL	1	50	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	250 uL	1	50	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	250 uL	1	50	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 2 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB77**

Description: PFAS - DoD Calibration L5

**Stock Id: JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	250	0.05	---	---	1	50	0.00025
13C2-PFOA	250	0.05	---	---	1	50	0.00025
13C3-PFBA	250	0.05	---	---	1	50	0.00025
13C4-PFOS	250	0.05	---	---	1	50	0.00024

**Stock Id: KB70**

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	2500	0.05	---	---	1	50	0.00253
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	2500	0.05	---	---	1	50	0.00253
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	2500	0.05	---	---	1	50	0.00250
(Na) Perfluoro-1-decanesulfonate	2500	0.05	---	---	1	50	0.00253
(NA) Perfluoro-1-heptanesulfonate	2500	0.05	---	---	1	50	0.00250
(Na) Perfluoro-1-nonanesulfonate	2500	0.05	---	---	1	50	0.00253
N-ethylperfluoro-octanesulfonamidoacetic acid	2500	0.05	---	---	1	50	0.00250
N-methylperfluoro-1-octanesulfonamidoacetic acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-1-butanedisulfonate	2500	0.05	---	---	1	50	0.00253
Perfluoro-1-hexanesulfonate	2500	0.05	---	---	1	50	0.00253
Perfluoro-1-octanesulfonamide	2500	0.05	---	---	1	50	0.00250
Perfluoro-1-octanesulfonate	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-butanoic Acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-decanoic Acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-dodecanoic acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-heptanoic Acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-hexanoic acid	2500	0.05	---	---	1	50	0.00253
Perfluoro-n-octanoic Acid	2500	0.05	---	---	1	50	0.00250
Perfluorononanoic Acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-pentanoic acid	2500	0.05	---	---	1	50	0.00253
Perfluoro-n-tetradecanoic acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-tridecanoic acid	2500	0.05	---	---	1	50	0.00250
Perfluoro-n-undecanoic acid	2500	0.05	---	---	1	50	0.00250
Sodium perfluoro-1-pentanesulfonate	2500	0.05	---	---	1	50	0.00250

**Stock Id: KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	250	0.05	---	---	1	50	0.00023

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB77**

Description: PFAS - DoD Calibration L5

13C2-6:2FTS	250	0.05	---	---	1	50	0.00024
13C2-8:2FTS	250	0.05	---	---	1	50	0.00024
13C2-PFDoA	250	0.05	---	---	1	50	0.00025
13C2-PFTeDA	250	0.05	---	---	1	50	0.00025
13C3-PFBS	250	0.05	---	---	1	50	0.00023
13C3-PFHxS	250	0.05	---	---	1	50	0.00024
13C4-PFBA	250	0.05	---	---	1	50	0.00025
13C4-PFHpA	250	0.05	---	---	1	50	0.00025
13C5-PFHxA	250	0.05	---	---	1	50	0.00025
13C5-PFPeA	250	0.05	---	---	1	50	0.00025
13C6-PFDA	250	0.05	---	---	1	50	0.00025
13C7-PFUnA	250	0.05	---	---	1	50	0.00025
13C8-FOSA	250	0.05	---	---	1	50	0.00025
13C8-PFOA	250	0.05	---	---	1	50	0.00025
13C8-PFOS	250	0.05	---	---	1	50	0.00024
13C9-PFNA	250	0.05	---	---	1	50	0.00025
d3-MeFOSAA	250	0.05	---	---	1	50	0.00025
d5-EtFOSAA	250	0.05	---	---	1	50	0.00025

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.00253
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.00253
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.00250
(Na) Perfluoro-1-decanesulfonate	.00253
(NA) Perfluoro-1-heptanesulfonate	.00250
(Na) Perfluoro-1-nonanesulfonate	.00253
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 2 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved:

**Standard Laboratory ID Number:** KB77

**Description:** PFAS - DoD Calibration L5

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.00250
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00250
Perfluoro-1-butanefulfonate	.00253
Perfluoro-1-hexanesulfonate	.00253
Perfluoro-1-octanesulfonamide	.00250
Perfluoro-1-octanesulfonate	.00250
Perfluoro-n-butanefulfonic Acid	.00250
Perfluoro-n-decanefulfonic Acid	.00250
Perfluoro-n-dodecanefulfonic acid	.00250
Perfluoro-n-heptanefulfonic Acid	.00250
Perfluoro-n-hexanefulfonic acid	.00253
Perfluoro-n-octanefulfonic Acid	.00250
Perfluorononanefulfonic Acid	.00250
Perfluoro-n-pentanefulfonic acid	.00253
Perfluoro-n-tetradecanefulfonic acid	.00250
Perfluoro-n-tridecanefulfonic acid	.00250
Perfluoro-n-undecanefulfonic acid	.00250
Sodium perfluoro-1-pentanesulfonate	.00250

### Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	B814657482
KB70	Pipette	OU16914
KB71	Pipette	B814657482

**Solution Prepared By:** Schultz, Stephanie      **Date Prepared:** 10/1/2018      **Expiration Date:** 7/16/2019

**Solution Volume** 40 mL X 2 Vials      **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise      **Date:** 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB78**

Description: PFAS - DoD Calibraiton 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)
KB70	PFAS - DoD High ICAL Stock	Solution	~0	10/01/19	---	---	2000 uL	1	10	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	50 uL	1	10	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	50 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB78**

Description: PFAS - DoD Calibraiton L6

**Stock Id: JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	50	0.05	---	---	1	10	0.00025
13C2-PFOA	50	0.05	---	---	1	10	0.00025
13C3-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFOS	50	0.05	---	---	1	10	0.00024

**Stock Id: KB70**

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	10	0.01010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	2000	0.05	---	---	1	10	0.01010
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	2000	0.05	---	---	1	10	0.01000
(Na) Perfluoro-1-decanesulfonate	2000	0.05	---	---	1	10	0.01010
(NA) Perfluoro-1-heptanesulfonate	2000	0.05	---	---	1	10	0.01000
(Na) Perfluoro-1-nonanesulfonate	2000	0.05	---	---	1	10	0.01010
N-ethylperfluoro-octanesulfonamidoacetic acid	2000	0.05	---	---	1	10	0.01000
N-methylperfluoro-1-octanesulfonamidoacetic acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-1-butanedisulfonate	2000	0.05	---	---	1	10	0.01010
Perfluoro-1-hexanesulfonate	2000	0.05	---	---	1	10	0.01010
Perfluoro-1-octanesulfonamide	2000	0.05	---	---	1	10	0.01000
Perfluoro-1-octanesulfonate	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-butanoic Acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-decanoic Acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-dodecanoic acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-heptanoic Acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-hexanoic acid	2000	0.05	---	---	1	10	0.01010
Perfluoro-n-octanoic Acid	2000	0.05	---	---	1	10	0.01000
Perfluorononanoic Acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-pentanoic acid	2000	0.05	---	---	1	10	0.01010
Perfluoro-n-tetradecanoic acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-tridecanoic acid	2000	0.05	---	---	1	10	0.01000
Perfluoro-n-undecanoic acid	2000	0.05	---	---	1	10	0.01000
Sodium perfluoro-1-pentanesulfonate	2000	0.05	---	---	1	10	0.01000

**Stock Id: KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	50	0.05	---	---	1	10	0.00023

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB78**

Description: PFAS - DoD Calibraiton L6

13C2-6:2FTS	50	0.05	---	---	1	10	0.00024
13C2-8:2FTS	50	0.05	---	---	1	10	0.00024
13C2-PFDoA	50	0.05	---	---	1	10	0.00025
13C2-PFTeDA	50	0.05	---	---	1	10	0.00025
13C3-PFBS	50	0.05	---	---	1	10	0.00023
13C3-PFHxS	50	0.05	---	---	1	10	0.00024
13C4-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFHpA	50	0.05	---	---	1	10	0.00025
13C5-PFHxA	50	0.05	---	---	1	10	0.00025
13C5-PFPeA	50	0.05	---	---	1	10	0.00025
13C6-PFDA	50	0.05	---	---	1	10	0.00025
13C7-PFUnA	50	0.05	---	---	1	10	0.00025
13C8-FOSA	50	0.05	---	---	1	10	0.00025
13C8-PFOA	50	0.05	---	---	1	10	0.00025
13C8-PFOS	50	0.05	---	---	1	10	0.00024
13C9-PFNA	50	0.05	---	---	1	10	0.00025
d3-MeFOSAA	50	0.05	---	---	1	10	0.00025
d5-EtFOSAA	50	0.05	---	---	1	10	0.00025

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.01010
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.01010
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.01000
(Na) Perfluoro-1-decanesulfonate	.01010
(NA) Perfluoro-1-heptanesulfonate	.01000
(Na) Perfluoro-1-nonanesulfonate	.01010
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB78**

Description: PFAS - DoD Calibraton L6

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.01000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.01000
Perfluoro-1-butanefulfonate	.01010
Perfluoro-1-hexanesulfonate	.01010
Perfluoro-1-octanesulfonamide	.01000
Perfluoro-1-octanesulfonate	.01000
Perfluoro-n-butanefulfonic Acid	.01000
Perfluoro-n-decanefulfonic Acid	.01000
Perfluoro-n-dodecanefulfonic acid	.01000
Perfluoro-n-heptanefulfonic Acid	.01000
Perfluoro-n-hexanefulfonic acid	.01010
Perfluoro-n-octanefulfonic Acid	.01000
Perfluorononanefulfonic Acid	.01000
Perfluoro-n-pentanefulfonic acid	.01010
Perfluoro-n-tetradecanefulfonic acid	.01000
Perfluoro-n-tridecanefulfonic acid	.01000
Perfluoro-n-undecanefulfonic acid	.01000
Sodium perfluoro-1-pentanesulfonate	.01000

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	B814659662
KB70	Pipette	OU16914
KB71	Pipette	B814659662

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:41:00 AM





It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB79**

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)
KB70	PFAS - DoD High ICAL Stock	Solution	~0	10/01/19	---	---	4000 uL	1	10	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	50 uL	1	10	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	50 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB79**

Description: PFAS - DoD Calibration L7

**Stock Id: JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	50	0.05	---	---	1	10	0.00025
13C2-PFOA	50	0.05	---	---	1	10	0.00025
13C3-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFOS	50	0.05	---	---	1	10	0.00024

**Stock Id: KB70**

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	4000	0.05	---	---	1	10	0.02020
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	4000	0.05	---	---	1	10	0.02020
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	4000	0.05	---	---	1	10	0.02000
(Na) Perfluoro-1-decanesulfonate	4000	0.05	---	---	1	10	0.02020
(NA) Perfluoro-1-heptanesulfonate	4000	0.05	---	---	1	10	0.02000
(Na) Perfluoro-1-nonanesulfonate	4000	0.05	---	---	1	10	0.02020
N-ethylperfluoro-octanesulfonamidoacetic acid	4000	0.05	---	---	1	10	0.02000
N-methylperfluoro-1-octanesulfonamidoacetic acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-1-butanedisulfonate	4000	0.05	---	---	1	10	0.02020
Perfluoro-1-hexanesulfonate	4000	0.05	---	---	1	10	0.02020
Perfluoro-1-octanesulfonamide	4000	0.05	---	---	1	10	0.02000
Perfluoro-1-octanesulfonate	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-butanoic Acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-decanoic Acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-dodecanoic acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-heptanoic Acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-hexanoic acid	4000	0.05	---	---	1	10	0.02020
Perfluoro-n-octanoic Acid	4000	0.05	---	---	1	10	0.02000
Perfluorononanoic Acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-pentanoic acid	4000	0.05	---	---	1	10	0.02020
Perfluoro-n-tetradecanoic acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-tridecanoic acid	4000	0.05	---	---	1	10	0.02000
Perfluoro-n-undecanoic acid	4000	0.05	---	---	1	10	0.02000
Sodium perfluoro-1-pentanesulfonate	4000	0.05	---	---	1	10	0.02000

**Stock Id: KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	50	0.05	---	---	1	10	0.00023

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB79**

Description: PFAS - DoD Calibration L7

13C2-6:2FTS	50	0.05	---	---	1	10	0.00024
13C2-8:2FTS	50	0.05	---	---	1	10	0.00024
13C2-PFDoA	50	0.05	---	---	1	10	0.00025
13C2-PFTeDA	50	0.05	---	---	1	10	0.00025
13C3-PFBS	50	0.05	---	---	1	10	0.00023
13C3-PFHxS	50	0.05	---	---	1	10	0.00024
13C4-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFHpA	50	0.05	---	---	1	10	0.00025
13C5-PFHxA	50	0.05	---	---	1	10	0.00025
13C5-PFPeA	50	0.05	---	---	1	10	0.00025
13C6-PFDA	50	0.05	---	---	1	10	0.00025
13C7-PFUnA	50	0.05	---	---	1	10	0.00025
13C8-FOSA	50	0.05	---	---	1	10	0.00025
13C8-PFOA	50	0.05	---	---	1	10	0.00025
13C8-PFOS	50	0.05	---	---	1	10	0.00024
13C9-PFNA	50	0.05	---	---	1	10	0.00025
d3-MeFOSAA	50	0.05	---	---	1	10	0.00025
d5-EtFOSAA	50	0.05	---	---	1	10	0.00025

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.02020
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.02020
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.02000
(Na) Perfluoro-1-decanesulfonate	.02020
(NA) Perfluoro-1-heptanesulfonate	.02000
(Na) Perfluoro-1-nonanesulfonate	.02020
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB79**

Description: PFAS - DoD Calibration L7

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.02000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.02000
Perfluoro-1-butanefulfonate	.02020
Perfluoro-1-hexanesulfonate	.02020
Perfluoro-1-octanesulfonamide	.02000
Perfluoro-1-octanesulfonate	.02000
Perfluoro-n-butanefulfonic Acid	.02000
Perfluoro-n-decanefulfonic Acid	.02000
Perfluoro-n-dodecanefulfonic acid	.02000
Perfluoro-n-heptanefulfonic Acid	.02000
Perfluoro-n-hexanefulfonic acid	.02020
Perfluoro-n-octanefulfonic Acid	.02000
Perfluorononanefulfonic Acid	.02000
Perfluoro-n-pentanefulfonic acid	.02020
Perfluoro-n-tetradecanefulfonic acid	.02000
Perfluoro-n-tridecanefulfonic acid	.02000
Perfluoro-n-undecanefulfonic acid	.02000
Sodium perfluoro-1-pentanesulfonate	.02000

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	B814659662
KB70	Pipette	OU16914
KB71	Pipette	B814659662

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB80**

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)
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	50 uL	1	10	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	50 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB80**

Description: PFAS - DoD Instrument Blank

Stock Id: **JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	50	0.05	---	---	1	10	0.00025
13C2-PFOA	50	0.05	---	---	1	10	0.00025
13C3-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFOS	50	0.05	---	---	1	10	0.00024

Stock Id: **KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	50	0.05	---	---	1	10	0.00023
13C2-6:2FTS	50	0.05	---	---	1	10	0.00024
13C2-8:2FTS	50	0.05	---	---	1	10	0.00024
13C2-PFDoA	50	0.05	---	---	1	10	0.00025
13C2-PFTeDA	50	0.05	---	---	1	10	0.00025
13C3-PFBS	50	0.05	---	---	1	10	0.00023
13C3-PFHxS	50	0.05	---	---	1	10	0.00024
13C4-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFHpA	50	0.05	---	---	1	10	0.00025
13C5-PFHxA	50	0.05	---	---	1	10	0.00025
13C5-PFPeA	50	0.05	---	---	1	10	0.00025
13C6-PFDA	50	0.05	---	---	1	10	0.00025
13C7-PFU <sub>n</sub> A	50	0.05	---	---	1	10	0.00025
13C8-FOSA	50	0.05	---	---	1	10	0.00025
13C8-PFOA	50	0.05	---	---	1	10	0.00025
13C8-PFOS	50	0.05	---	---	1	10	0.00024
13C9-PFNA	50	0.05	---	---	1	10	0.00025
d3-MeFOSAA	50	0.05	---	---	1	10	0.00025
d5-EtFOSAA	50	0.05	---	---	1	10	0.00025

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: **KB80**

Description: PFAS - DoD Instrument Blank

13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025
13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	B814659662
KB71	Pipette	B814659662

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	
<b>Comment:</b> 80/20 Methanol/Milli-q water		

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB81**

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)
KB82	PFAS - DoD Second Source LCS/MS Solution	Solution	~0	10/01/19	---	---	200 uL	1	10	~0.0000
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	50 uL	1	10	~0.0000
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	50 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM





It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB81**

Description: PFAS - DoD ICC

**Stock Id: JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	50	0.05	---	---	1	10	0.00025
13C2-PFOA	50	0.05	---	---	1	10	0.00025
13C3-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFOS	50	0.05	---	---	1	10	0.00024

**Stock Id: KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	50	0.05	---	---	1	10	0.00023
13C2-6:2FTS	50	0.05	---	---	1	10	0.00024
13C2-8:2FTS	50	0.05	---	---	1	10	0.00024
13C2-PFDoA	50	0.05	---	---	1	10	0.00025
13C2-PFTeDA	50	0.05	---	---	1	10	0.00025
13C3-PFBS	50	0.05	---	---	1	10	0.00023
13C3-PFHxS	50	0.05	---	---	1	10	0.00024
13C4-PFBA	50	0.05	---	---	1	10	0.00025
13C4-PFHpA	50	0.05	---	---	1	10	0.00025
13C5-PFHxA	50	0.05	---	---	1	10	0.00025
13C5-PFPeA	50	0.05	---	---	1	10	0.00025
13C6-PFDA	50	0.05	---	---	1	10	0.00025
13C7-PFUnA	50	0.05	---	---	1	10	0.00025
13C8-FOSA	50	0.05	---	---	1	10	0.00025
13C8-PFOA	50	0.05	---	---	1	10	0.00025
13C8-PFOS	50	0.05	---	---	1	10	0.00024
13C9-PFNA	50	0.05	---	---	1	10	0.00025
d3-MeFOSAA	50	0.05	---	---	1	10	0.00025
d5-EtFOSAA	50	0.05	---	---	1	10	0.00025

**Stock Id: KB82**

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: 10/1/2018 Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB81**

Description: PFAS - DoD ICC

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-butanefluoride	200	0.05	---	---	1	10	0.00101
Perfluoro-1-hexanesulfonate	200	0.05	---	---	1	10	0.00101
Perfluoro-1-octanesulfonamide	200	0.05	---	---	1	10	0.00100
Perfluoro-1-octanesulfonate	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
13C2-4:2FTS	.00023
13C2-6:2FTS	.00024
13C2-8:2FTS	.00024
13C2-PFDA	.00025
13C2-PFDoA	.00025
13C2-PFOA	.00025
13C2-PFTeDA	.00025
13C3-PFBA	.00025
13C3-PFBS	.00023
13C3-PFHxS	.00024
13C4-PFBA	.00025
13C4-PFHpA	.00025

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/1/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Concentrations

Approved:

**Standard Laboratory ID Number:** KB81

**Description:** PFAS - DoD ICC

13C4-PFOS	.00024
13C5-PFHxA	.00025
13C5-PFPeA	.00025
13C6-PFDA	.00025
13C7-PFUnA	.00025
13C8-FOSA	.00025
13C8-PFOA	.00025
13C8-PFOS	.00024
13C9-PFNA	.00025
d3-MeFOSAA	.00025
d5-EtFOSAA	.00025
N-ethylperfluoro-octanesulfonamidoacetic acid	.00100
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00100
Perfluoro-1-butanedisulfonate	.00101
Perfluoro-1-hexanesulfonate	.00101
Perfluoro-1-octanesulfonamide	.00100
Perfluoro-1-octanesulfonate	.00100
Perfluoro-n-butyric 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 perfluoro-1-pentanesulfonate	.00100

### Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	B814659662
KB71	Pipette	B814659662
KB82	Pipette	B814657482

**Solution Prepared By:** Schultz, Stephanie      **Date Prepared:** 10/1/2018      **Expiration Date:** 7/16/2019

**Solution Volume** 40 mL X 1 Vials      **Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 80/20 Methanol/Milli-q water

**Approved By:** Schumitz, Denise      **Date:** 10/9/2018 9:41:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB82**

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)
170724-01	PFOA - 2nd Source	Neat	~1.00000 0	03/22/22	---	---	1000 uL	1	20	~0.0500

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Thorn, Jonathan Date: 10/12/2018 8:05:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB82**

Description: PFAS - DoD Second Source LCS/MS Solution

Stock Id: **170724-01**

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-butanedisulfonate	1000	1.01	1	100.000	1	20	0.05050
Perfluoro-1-hexanesulfonate	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-octanesulfonate	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-butanedisulfonate	.05050

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 10/1/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Thorn, Jonathan Date: 10/12/2018 8:05:00 AM



It can be done

**Standard Solution Concentrations** Approved:

**Standard Laboratory ID Number:** **KB82**

**Description:** PFAS - DoD Second Source LCS/MS Solution

Perfluoro-1-hexanesulfonate	.05050
Perfluoro-1-octanesulfonamide	.05000
Perfluoro-1-octanesulfonate	.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:
170724-01	Pipette	B820865811

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	
<b>Comment:</b> 80/20 Methanol/Milli-q water		

**Approved By:** Thorn, Jonathan **Date:** 10/12/2018 8:05:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB83**

Description: PFAS - DoD High Level Second Source LCS/MS Solution

Stock Id: **181001-01**

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	5	0.20200
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	1.00	1	100.000	1	5	0.20000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	1.00	1	100.000	1	5	0.20000
(Na) Perfluoro-1-decanesulfonate	1000	1.01	1	100.000	1	5	0.20200
(NA) Perfluoro-1-heptanesulfonate	1000	1.00	1	100.000	1	5	0.20000
(Na) Perfluoro-1-nonanesulfonate	1000	1.01	1	100.000	1	5	0.20200
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	5	0.20000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-1-butanefulfonate	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-1-hexanesulfonate	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-1-octanesulfonamide	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-1-octanesulfonate	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-butanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-decanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-dodecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-heptanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-hexanoic acid	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-n-octanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluorononanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-pentanoic acid	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-n-tetradecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-tridecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-undecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Sodium perfluoro-1-pentanesulfonate	1000	1.00	1	100.000	1	5	0.20000

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.20200
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.20000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.20000
(Na) Perfluoro-1-decanesulfonate	.20200
(NA) Perfluoro-1-heptanesulfonate	.20000
(Na) Perfluoro-1-nonanesulfonate	.20200
N-ethylperfluoro-octanesulfonamidoacetic acid	.20000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.20000
Perfluoro-1-butanefulfonate	.20200

Solution Prepared By: Schultz, Stephanie Date Prepared: 10/1/2018 Expiration Date: 10/1/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

Standard Solution Concentrations

Approved:

Standard Laboratory ID Number: **KB83**

Description: PFAS - DoD High Level Second Source LCS/MS Solution

Perfluoro-1-hexanesulfonate	.20200
Perfluoro-1-octanesulfonamide	.20000
Perfluoro-1-octanesulfonate	.20000
Perfluoro-n-butanoic Acid	.20000
Perfluoro-n-decanoic Acid	.20000
Perfluoro-n-dodecanoic acid	.20000
Perfluoro-n-heptanoic Acid	.20000
Perfluoro-n-hexanoic acid	.20200
Perfluoro-n-octanoic Acid	.20000
Perfluorononanoic Acid	.20000
Perfluoro-n-pentanoic acid	.20200
Perfluoro-n-tetradecanoic acid	.20000
Perfluoro-n-tridecanoic acid	.20000
Perfluoro-n-undecanoic acid	.20000
Sodium perfluoro-1-pentanesulfonate	.20000

Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
181001-01	Pipette	B820865811

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/1/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

**Comment:** 80/20 Methanol/Milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB83**

Description: PFAS - DoD High Level 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)
181001-01	PFOA - 2nd source	Neat	~1.00000 0	09/20/23	---	---	1000 uL	1	5	~0.2000

Solution Prepared By	Schultz, Stephanie	Date Prepared:	10/1/2018	Expiration Date	10/1/2019
Solution Volume	40 mL X 1 Vials	Refrigerator/Freezer No:	LC Laboratory: Refrigerator - R0107		

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KB89**

Description: PFAS Branched Solution (~5,000 ng/L)

Stock Id: **JX28**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
N-ethylperfluoro-octanesulfonamidoacetic acid	100	0.50	---	---	1	10	0.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	100	0.50	---	---	1	10	0.00500
Perfluoro-1-hexanesulfonate	100	0.50	---	---	1	10	0.00500
Perfluoro-1-octanesulfonate	100	0.50	---	---	1	10	0.00500
Perfluoro-n-octanoic Acid	100	0.50	---	---	1	10	0.00500

## Final Concentrations:

Analyte:	Conc (ug/mL):
N-ethylperfluoro-octanesulfonamidoacetic acid	.00500
N-methylperfluoro-1-octanesulfonamidoacetic acid	.00500
Perfluoro-1-hexanesulfonate	.00500
Perfluoro-1-octanesulfonate	.00500
Perfluoro-n-octanoic Acid	.00500

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JX28	Pipette	B814659662

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/3/2018      Expiration Date: 6/18/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 9:43:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KB89**

Description: PFAS Branched Solution (~5,000 ng/L)

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)
JX28	PFAS Branched Standard Stock	Solution	~0	06/18/19	---	---	100 uL	1	10	~0.0000

<b>Solution Prepared By</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/3/2018	<b>Expiration Date</b> 6/18/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 9:43:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KC02**

Description: PFAS - DoD High Level 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)
181001-01	PFOA - 2nd source	Neat	~1.00000 0	09/20/23	---	---	1000 uL	1	5	~0.2000

<b>Solution Prepared By:</b> Schumitz, Denise	<b>Date Prepared:</b> 10/8/2018	<b>Expiration Date:</b> 10/8/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/8/2018 11:44:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KC02**

Description: PFAS - DoD High Level Second Source LCS/MS Solution

Stock Id: **181001-01**

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	5	0.20200
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	1000	1.00	1	100.000	1	5	0.20000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	1000	1.00	1	100.000	1	5	0.20000
(Na) Perfluoro-1-decanesulfonate	1000	1.01	1	100.000	1	5	0.20200
(NA) Perfluoro-1-heptanesulfonate	1000	1.00	1	100.000	1	5	0.20000
(Na) Perfluoro-1-nonanesulfonate	1000	1.01	1	100.000	1	5	0.20200
N-ethylperfluoro-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	5	0.20000
N-methylperfluoro-1-octanesulfonamidoacetic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-1-butanefulfonate	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-1-hexanesulfonate	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-1-octanesulfonamide	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-1-octanesulfonate	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-butanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-decanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-dodecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-heptanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-hexanoic acid	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-n-octanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluorononanoic Acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-pentanoic acid	1000	1.01	1	100.000	1	5	0.20200
Perfluoro-n-tetradecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-tridecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Perfluoro-n-undecanoic acid	1000	1.00	1	100.000	1	5	0.20000
Sodium perfluoro-1-pentanesulfonate	1000	1.00	1	100.000	1	5	0.20000

## Final Concentrations:

Analyte:	Conc (ug/mL):
(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate	.20200
(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate	.20000
(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate	.20000
(Na) Perfluoro-1-decanesulfonate	.20200
(NA) Perfluoro-1-heptanesulfonate	.20000
(Na) Perfluoro-1-nonanesulfonate	.20200
N-ethylperfluoro-octanesulfonamidoacetic acid	.20000
N-methylperfluoro-1-octanesulfonamidoacetic acid	.20000
Perfluoro-1-butanefulfonate	.20200

Solution Prepared By: Schumitz, Denise Date Prepared: 10/8/2018 Expiration Date: 10/8/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 80/20 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/8/2018 11:44:00 AM



It can be done

**Standard Solution Concentrations** Approved:

**Standard Laboratory ID Number: KC02**

**Description:** PFAS - DoD High Level Second Source LCS/MS Solution

Perfluoro-1-hexanesulfonate	.20200
Perfluoro-1-octanesulfonamide	.20000
Perfluoro-1-octanesulfonate	.20000
Perfluoro-n-butanoic Acid	.20000
Perfluoro-n-decanoic Acid	.20000
Perfluoro-n-dodecanoic acid	.20000
Perfluoro-n-heptanoic Acid	.20000
Perfluoro-n-hexanoic acid	.20200
Perfluoro-n-octanoic Acid	.20000
Perfluorononanoic Acid	.20000
Perfluoro-n-pentanoic acid	.20200
Perfluoro-n-tetradecanoic acid	.20000
Perfluoro-n-tridecanoic acid	.20000
Perfluoro-n-undecanoic acid	.20000
Sodium perfluoro-1-pentanesulfonate	.20000

**Syringes/Pipettes:**

Stock ID:	Type:	Battelle ID:
181001-01	Pipette	B820865811

<b>Solution Prepared By:</b> Schumitz, Denise	<b>Date Prepared:</b> 10/8/2018	<b>Expiration Date:</b> 10/8/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	
<b>Comment:</b> 80/20 Methanol/Milli-q water		

**Approved By:** Schumitz, Denise **Date:** 10/8/2018 11:44:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KC03**

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)
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	2500 uL	1	25	~0.0000

Solution Prepared By	Schultz, Stephanie	Date Prepared:	10/9/2018	Expiration Date	7/16/2019
Solution Volume	40 mL X 1 Vials	Refrigerator/Freezer No:	LC Laboratory: Refrigerator - R0107		

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/Milli-q water

Approved By: Schumitz, Denise Date: 10/9/2018 4:15:00 PM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KC03**

Description: PFAS - DoD Internal Standard Spiking Solution

Stock Id: **JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	2500	0.05	---	---	1	25	0.00500
13C2-PFOA	2500	0.05	---	---	1	25	0.00500
13C3-PFBA	2500	0.05	---	---	1	25	0.00500
13C4-PFOS	2500	0.05	---	---	1	25	0.00479

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-PFDA	.00500
13C2-PFOA	.00500
13C3-PFBA	.00500
13C4-PFOS	.00479

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	OU16914

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/9/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/Milli-q water

Approved By: Schumitz, Denise      Date: 10/9/2018 4:15:00 PM





It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KC19**

Description: PFAS - DoD Low Level Labelled Extracted Internal Standard (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)
KB71	PFAS - DoD High Level Labelled Extracted Internal Standards (SIS)	Solution	~0	10/01/19	---	---	2500 uL	1	25	~0.0000

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/16/2018	<b>Expiration Date:</b> 10/1/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 96/4 Methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/18/2018 11:55:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KC19**

Description: PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)

Stock Id: **KB71**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-4:2FTS	2500	0.05	---	---	1	25	0.00468
13C2-6:2FTS	2500	0.05	---	---	1	25	0.00475
13C2-8:2FTS	2500	0.05	---	---	1	25	0.00479
13C2-PFDoA	2500	0.05	---	---	1	25	0.00500
13C2-PFTeDA	2500	0.05	---	---	1	25	0.00500
13C3-PFBS	2500	0.05	---	---	1	25	0.00465
13C3-PFHxS	2500	0.05	---	---	1	25	0.00473
13C4-PFBA	2500	0.05	---	---	1	25	0.00500
13C4-PFHpA	2500	0.05	---	---	1	25	0.00500
13C5-PFHxA	2500	0.05	---	---	1	25	0.00500
13C5-PFPeA	2500	0.05	---	---	1	25	0.00500
13C6-PFDA	2500	0.05	---	---	1	25	0.00500
13C7-PFUnA	2500	0.05	---	---	1	25	0.00500
13C8-FOSA	2500	0.05	---	---	1	25	0.00500
13C8-PFOA	2500	0.05	---	---	1	25	0.00500
13C8-PFOS	2500	0.05	---	---	1	25	0.00478
13C9-PFNA	2500	0.05	---	---	1	25	0.00500
d3-MeFOSAA	2500	0.05	---	---	1	25	0.00500
d5-EtFOSAA	2500	0.05	---	---	1	25	0.00500

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-4:2FTS	.00468
13C2-6:2FTS	.00475
13C2-8:2FTS	.00479
13C2-PFDoA	.00500
13C2-PFTeDA	.00500
13C3-PFBS	.00465
13C3-PFHxS	.00473
13C4-PFBA	.00500
13C4-PFHpA	.00500
13C5-PFHxA	.00500
13C5-PFPeA	.00500
13C6-PFDA	.00500
13C7-PFUnA	.00500
13C8-FOSA	.00500

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/16/2018      Expiration Date: 10/1/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 Methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/18/2018 11:55:00 AM



It can be done

## Standard Solution Concentrations

Approved:

**Standard Laboratory ID Number:** KC19

**Description:** PFAS - DoD Low Level Labelled Extracted Internal Standard (SIS)

13C8-PFOA	.00500
13C8-PFOS	.00478
13C9-PFNA	.00500
d3-MeFOSAA	.00500
d5-EtFOSAA	.00500

### Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
KB71	Pipette	OU16914

**Solution Prepared By:** Schultz, Stephanie      **Date Prepared:** 10/16/2018      **Expiration Date:** 10/1/2019

**Solution Volume** 40 mL X 1      **Vials Refrigerator/Freezer No:** LC Laboratory: Refrigerator - R0107

**Comment:** 96/4 Methanol/milli-q water

**Approved By:** Schumitz, Denise      **Date:** 10/18/2018 11:55:00 AM



It can be done

## Standard Solution Prep Form II

Approved: Standard Laboratory ID Number: **KC52**

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)
JY25	PFAS - DoD Internal Standard Stock Solution	Solution	~0	07/16/19	---	---	2500 uL	1	25	~0.0000

<b>Solution Prepared By:</b> Schultz, Stephanie	<b>Date Prepared:</b> 10/19/2018	<b>Expiration Date:</b> 7/16/2019
<b>Solution Volume</b> 40 mL X 1 Vials	<b>Refrigerator/Freezer No:</b> LC Laboratory: Refrigerator - R0107	

Balance ID: \_\_\_\_\_

Comment: 96/4 methanol/milli-q water

Approved By: Schumitz, Denise Date: 10/23/2018 8:56:00 AM



It can be done

## Standard Solution Concentrations

Approved: Standard Laboratory ID Number: **KC52**

Description: PFAS - DoD Internal Standard Spiking Solution

Stock Id: **JY25**

Chemical Name	Stock Amount uL	Initial Conc. (ug/mL)	Density (g/mL)	Purity	Conv. Factor	Final Vol mL	Concentration (ug/mL)
13C2-PFDA	2500	0.05	---	---	1	25	0.00500
13C2-PFOA	2500	0.05	---	---	1	25	0.00500
13C3-PFBA	2500	0.05	---	---	1	25	0.00500
13C4-PFOS	2500	0.05	---	---	1	25	0.00479

## Final Concentrations:

Analyte:	Conc (ug/mL):
13C2-PFDA	.00500
13C2-PFOA	.00500
13C3-PFBA	.00500
13C4-PFOS	.00479

## Syringes/Pipettes:

Stock ID:	Type:	Battelle ID:
JY25	Pipette	OU16914

Solution Prepared By: Schultz, Stephanie      Date Prepared: 10/19/2018      Expiration Date: 7/16/2019

Solution Volume 40 mL X 1 Vials Refrigerator/Freezer No: LC Laboratory: Refrigerator - R0107

Comment: 96/4 methanol/milli-q water

Approved By: Schumitz, Denise      Date: 10/23/2018 8:56:00 AM



It can be done

BDO Id: 170724-01

## Reagent Receipt Report

 Approved:  Authorized: 

<b>Name:</b> <u>PFOA- 2nd Source</u>	<b>Received:</b> <u>7/24/2017</u>
<b>Vendor:</b> <u>ABSOLUTE STANDARDS</u>	<b>Custodian:</b> <u>Schumitz, Matt</u>
<b>Catalogue No:</b> <u>99207</u>	<b>Expires:</b> <u>3/22/2022</u>
<b>Type:</b> <u>Solution</u>	<b>Consumed:</b> _____
<b>Lot No:</b> <u>032217</u>	<b>Stored In:</b> <u>LC Laboratory - F0111</u>
<b>Quantity:</b> <u>5 ea</u> mL <b>% Moisture:</b> _____	
<b>Description:</b> <u>PFOA - 2nd Source</u>	

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 s	414911-30-1	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-butanefulfonate	375-73-5	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-hexanesulfonate	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-octanesulfonate	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-pentanesulfonate	2706-91-4	1.0000	100.00	--	--	<input type="checkbox"/>			

**Total Analytes:** 24

**Notes:**

<b>Approved by:</b> _____	<b>Approved on:</b> _____
<b>Authorized by:</b> _____	<b>Authorized on:</b> _____



CERTIFIED WEIGHT REPORT

170784-01

**Part Number:** 99207  
**Lot Number:** 032217  
**Description:** PFOA - DOD  
24 components  
**Expiration Date:** 032222  
**Recommended Storage:** Freezer (0 °C)  
**Nominal Concentration (µg/mL):** 1.0  
**NIST Test ID#:** 822-275872-11

**Solvent(s):** Methanol (1 mM KOH)  
2-Propanol  
**Lot#** 031317 (98%)  
23214 (2%)

<i>Paul Barron</i>		032217
Formulated By:	Paul Barron	DATE
<i>Pedro L. Rentas</i>		032217
Reviewed By:	Pedro L. Rentas	DATE

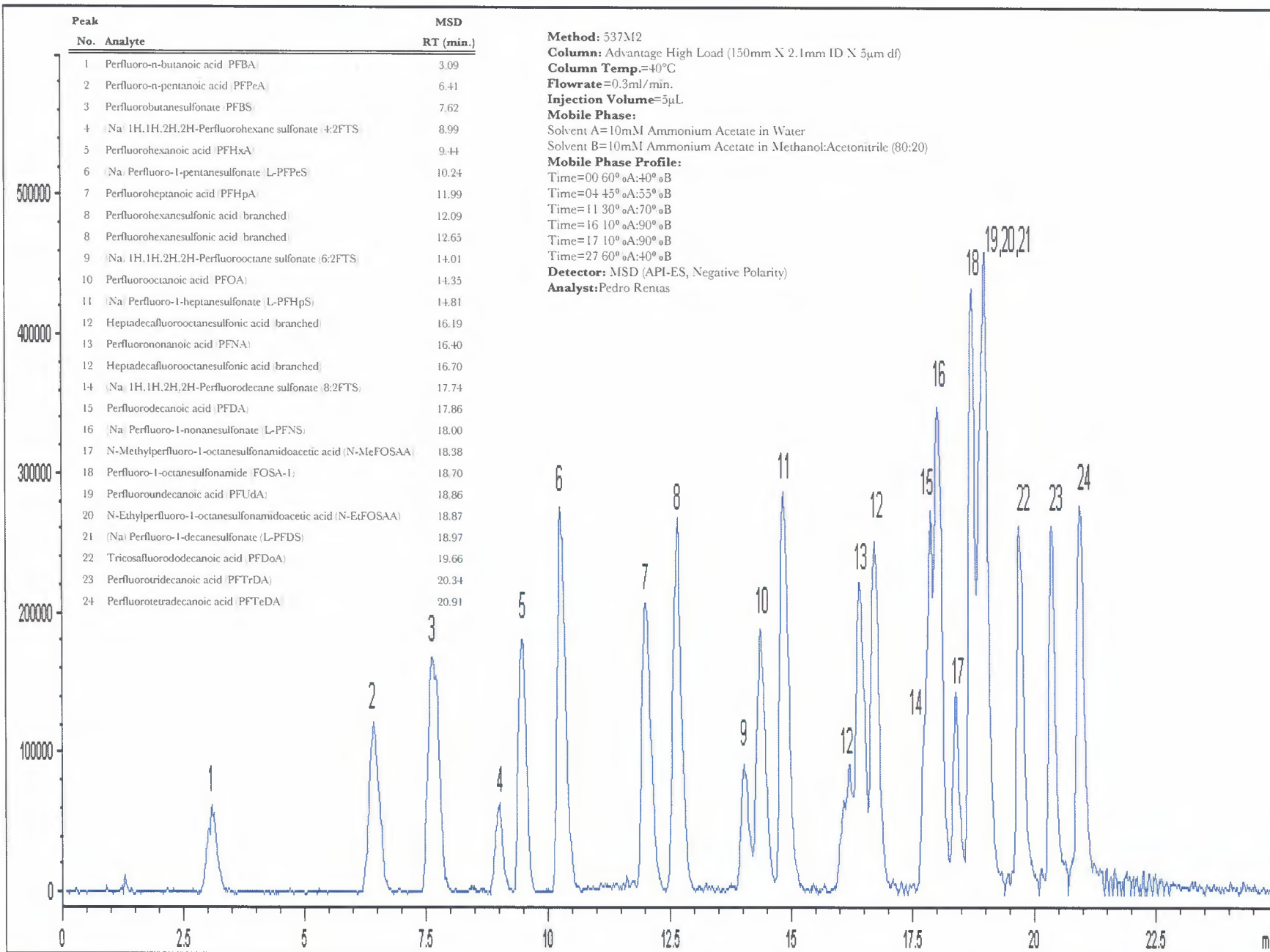
Volume(s) shown below were combined and diluted to (mL):

50.0 5E-05 Balance Uncertainty  
0.007 Flask Uncertainty

**Note: All assigned values are anion concentrations.**

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)	SDS Information (Solvent Safety Info. On Attached pg.)		
									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. Tricosafluorododecanoic 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	NMeFOSAA0117	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	NEFOSAA0117	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	LFPFeS0117	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. Heptafluorooctanesulfonic 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: 180618-02

Reagent Receipt Report

Approved:  Authorized

Name: Branched NEtFOSAA Standard (50 µ Received: 6/18/2018  
 Vendor: Wellington Laboratories Custodian: Thorn, Jonathan  
 Catalogue No: br-NEtFOSAAA Expires: 1/17/2023  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: brNEtFOSAA0118 Stored In: Sample Preparation - C0103  
 Quantity: 1 ea mL % Moisture: 0  
 Description: Branched NEtFOSAA Standard (50 µg/mL)

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
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Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_

18 0618-02



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**br-NEtFOSAA**

**N-Ethylperfluorooctanesulfonamidoacetic  
Acid Solution/Mixture of Linear and  
Branched Isomers**

<b><u>PRODUCT CODE:</u></b>	br-NEtFOSAA
<b><u>LOT NUMBER:</u></b>	brNEtFOSAA0118
<b><u>CONCENTRATION:</u></b>	50.0 ± 2.5 µg/ml
<b><u>SOLVENT(S):</u></b>	Methanol/Water (<1%)
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	01/10/2018
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	01/17/2018
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	01/17/2023
<b><u>RECOMMENDED STORAGE:</u></b>	Refrigerate ampoule

**DESCRIPTION:**

The chemical purity has been determined to be ≥98% N-ethylperfluorooctanesulfonamidoacetic acid (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 <sup>19</sup>F-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.
- Contains 4 mole eq. of NaOH to prevent conversion of the acetic acid moiety to its respective methyl ester.

**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.

**HANDLING:**

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:**

Our products are synthesized using single-product unambiguous routes whenever possible. 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. This 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 calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. 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 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

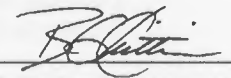


\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

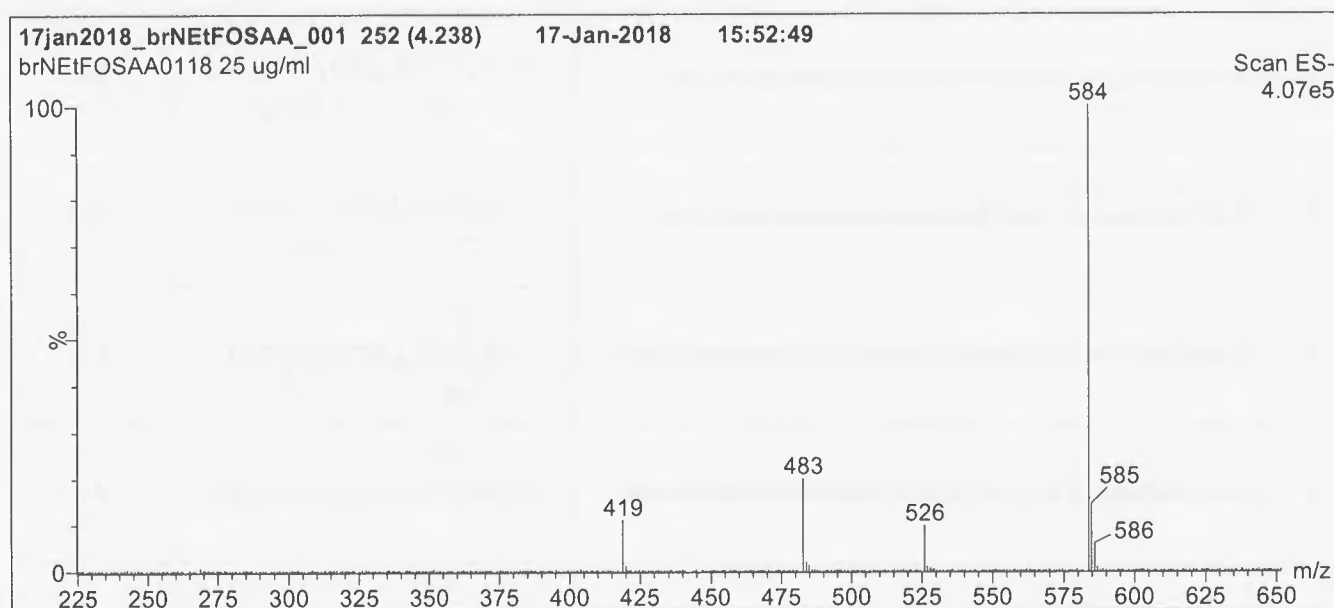
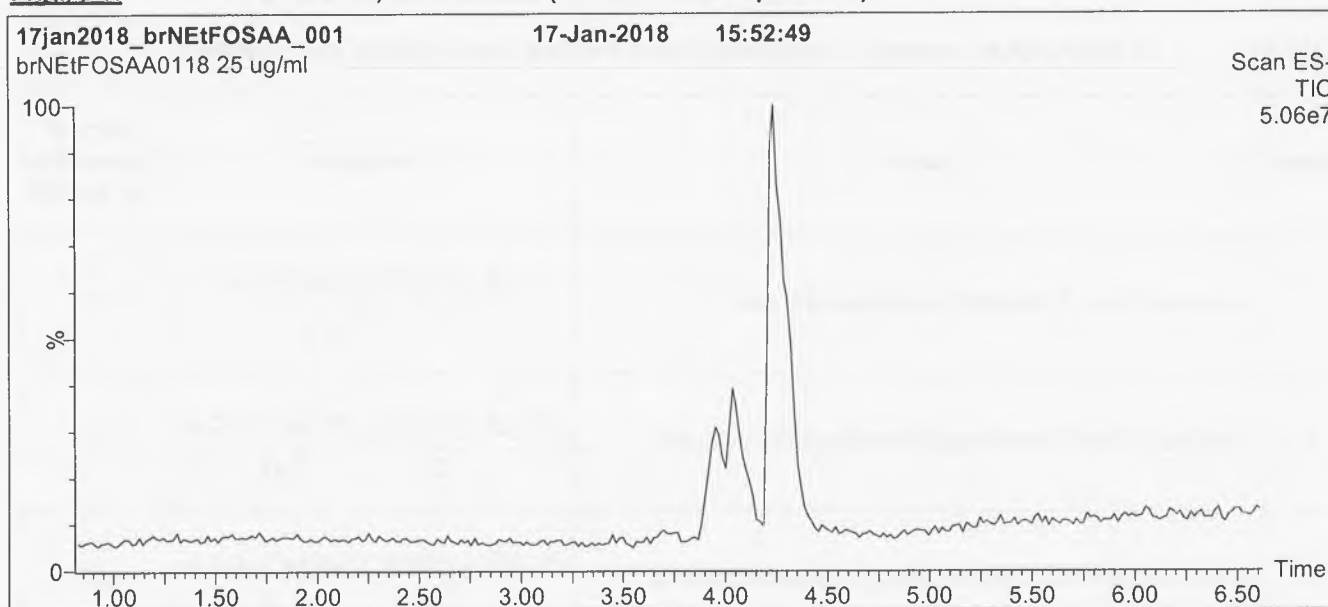
**Table A: br-NEtFOSAA; Isomeric Components and Percent Composition (by <sup>19</sup>F-NMR)\***

Isomer	Name	Structure	Percent Composition by <sup>19</sup> F-NMR
1	N-ethylperfluoro-1-octanesulfonamidoacetic acid	$\text{CF}_3(\text{CF}_2)_7\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ C <sub>2</sub> H <sub>5</sub>	77.5
2	N-ethylperfluoro-3-methylheptanesulfonamidoacetic acid	$\text{CF}_3(\text{CF}_2)_3\text{CF}(\text{CF}_2)_2\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ CF <sub>3</sub> C <sub>2</sub> H <sub>5</sub>	2.3
3	N-ethylperfluoro-4-methylheptanesulfonamidoacetic acid	$\text{CF}_3(\text{CF}_2)_2\text{CF}(\text{CF}_2)_3\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ CF <sub>3</sub> C <sub>2</sub> H <sub>5</sub>	2.2
4	N-ethylperfluoro-5-methylheptanesulfonamidoacetic acid	$\text{CF}_3\text{CF}_2\text{CF}(\text{CF}_2)_4\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ CF <sub>3</sub> C <sub>2</sub> H <sub>5</sub>	5.4
5	N-ethylperfluoro-6-methylheptanesulfonamidoacetic acid	$\text{CF}_3\text{CF}(\text{CF}_2)_5\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ CF <sub>3</sub> C <sub>2</sub> H <sub>5</sub>	10.4
6	N-ethylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid	$\begin{array}{c} \text{CF}_3 \\   \\ \text{CF}_3\text{C}(\text{CF}_2)_4\text{SO}_2\text{NCH}_2\text{CO}_2\text{H} \\   \\ \text{CF}_3 \end{array}$ C <sub>2</sub> H <sub>5</sub>	0.3
7	N-ethylperfluoro-4,5-dimethylhexanesulfonamidoacetic acid	$\begin{array}{c} \text{CF}_3 \\   \\ \text{CF}_3\text{CFCF}(\text{CF}_2)_3\text{SO}_2\text{NCH}_2\text{CO}_2\text{H} \\   \\ \text{CF}_3 \end{array}$ C <sub>2</sub> H <sub>5</sub>	0.3
8	N-ethylperfluoro-3,5-dimethylhexanesulfonamidoacetic acid	$\begin{array}{c} \text{CF}_3 \\   \\ \text{CF}_3\text{CFCF}_2\text{CF}(\text{CF}_2)_2\text{SO}_2\text{NCH}_2\text{CO}_2\text{H} \\   \\ \text{CF}_3 \end{array}$ C <sub>2</sub> H <sub>5</sub>	0.3
9	Other Unidentified Isomers		1.3

\* Percent of total N-ethylperfluorooctanesulfonamidoacetic acid isomers only.

Certified By:   
B.G. Chittim, General Manager

Date: 03/22/2018  
(mm/dd/yyyy)

**Figure 1: br-NEtFOSAA; LC/MS Data (TIC and Mass Spectrum)****Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>,  
1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
Start: 55% (80:20 MeOH:ACN) / 45% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 7 min and hold for  
2 min before returning to initial conditions in 0.5 min.

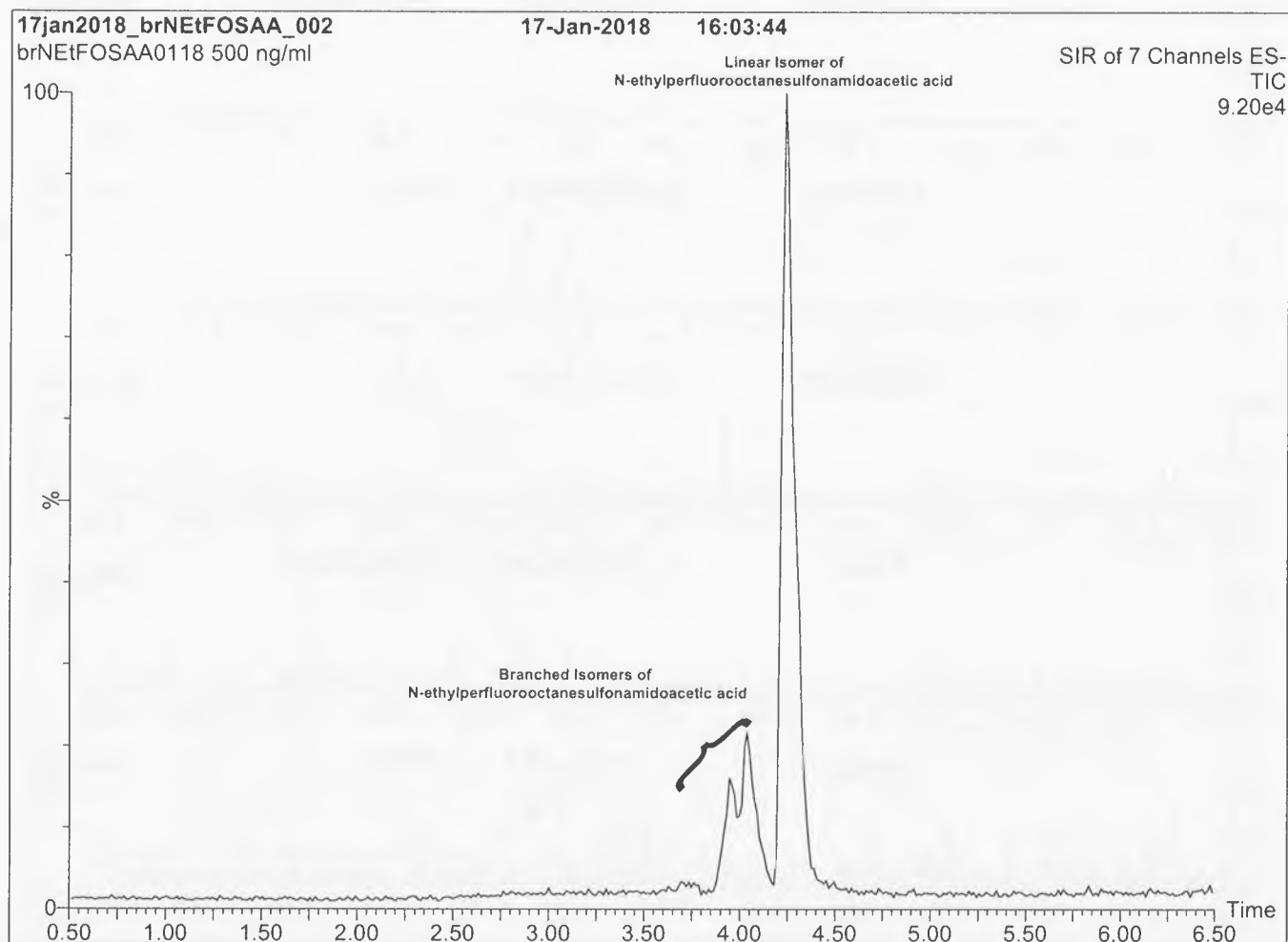
Time: 10 min

Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 35.00  
Cone Gas Flow (l/hr) = 50  
Desolvation Gas Flow (l/hr) = 750

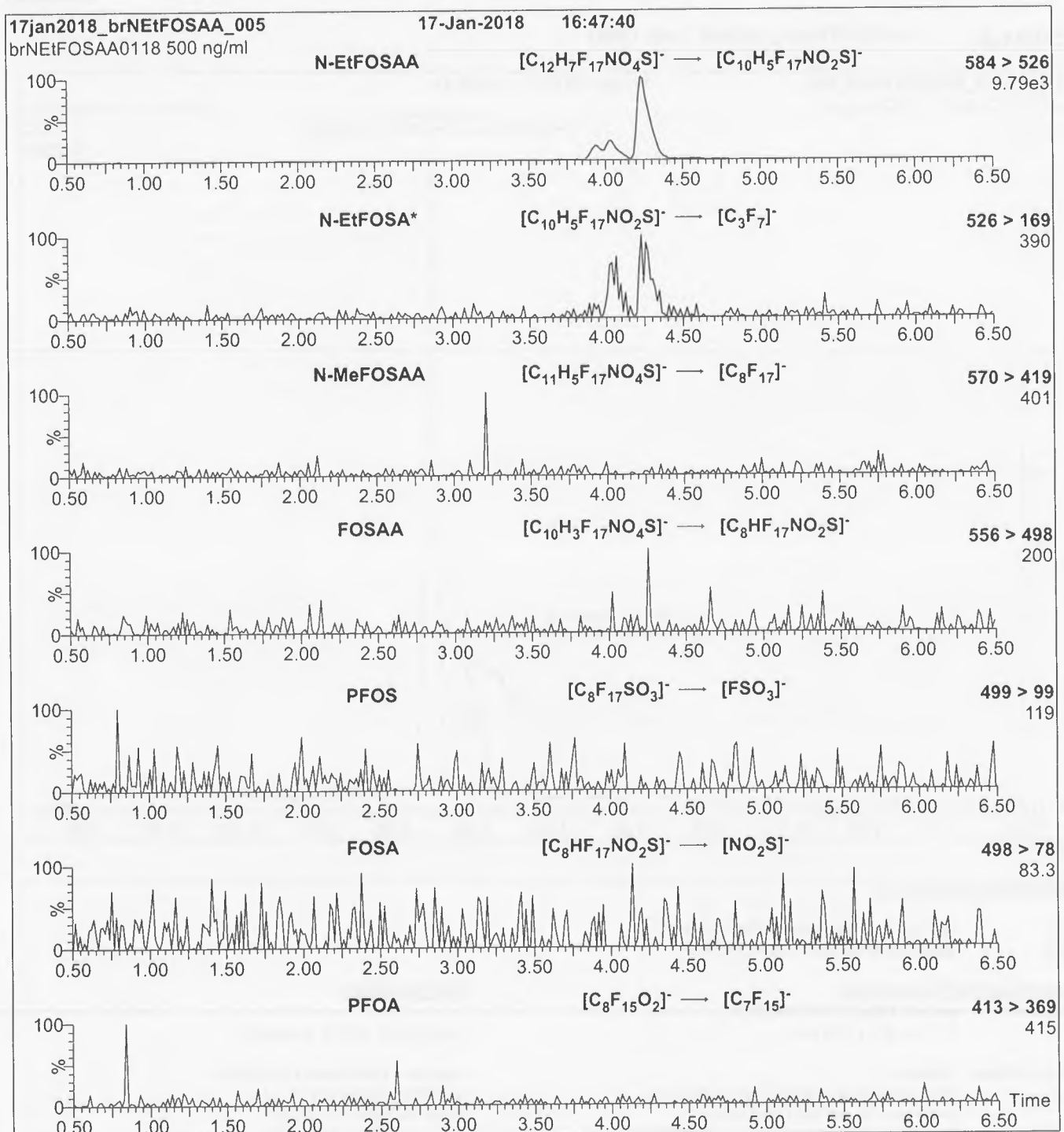
**Figure 2:** br-NEtFOSAA; LC/MS Data (SIR)**Conditions for Figure 2:****LC:** Waters Acquity Ultra Performance LC**MS:** Micromass Quattro *micro* API MS**Chromatographic Conditions**Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mmMobile phase: Gradient  
Start: 55% (80:20 MeOH:ACN) / 45% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 7 min and hold for  
2 min before returning to initial conditions in 0.5 min.

Time: 10 min

Flow: 300  $\mu$ l/min**MS Parameters**

Experiment: SIR (7 channels)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 15-60  
Cone Gas Flow (l/hr) = 50  
Desolvation Gas Flow (l/hr) = 750

**Figure 3:** br-NEtFOSAA; LC/MS/MS Data (Selected MRM Transitions)

\*Note: N-EtFOSA is formed by in-source fragmentation.

**Conditions for Figure 3:**

Injection: On-column

**MS Parameters**

Mobile phase: Same as Figure 2

Collision Gas (mbar) = 3.39e-3  
Collision Energy (eV) = 11-40 (variable)

Flow: 300  $\mu$ l/min





It can be done

BDO Id: 180618-03

Reagent Receipt Report

Approved:  Authorized

Name: Branched NMeFOSAA Standard (50 Received: 6/18/2018  
 Vendor: Wellington Laboratories Custodian: Thorn, Jonathan  
 Catalogue No: brNMeFOSAA Expires: 1/17/2023  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: brNMeFOSAA0118 Stored In: Sample Preparation - C0103  
 Quantity: 1 ea mL % Moisture: 0  
 Description: Branched NMeFOSAA Standard (50 µg/mL)

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
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Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_



180618-03



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**br-NMeFOSAA**

**N-Methylperfluorooctanesulfonamidoacetic  
Acid Solution/Mixture of Linear and  
Branched Isomers**

**PRODUCT CODE:** br-NMeFOSAA  
**LOT NUMBER:** brNMeFOSAA0118  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml  
**SOLVENT(S):** Methanol/Water (<1%)  
**DATE PREPARED:** (mm/dd/yyyy) 01/10/2018  
**LAST TESTED:** (mm/dd/yyyy) 01/17/2018  
**EXPIRY DATE:** (mm/dd/yyyy) 01/17/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DESCRIPTION:**

The chemical purity has been determined to be ≥98% N-methylperfluorooctanesulfonamidoacetic acid (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 <sup>19</sup>F-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.
- Contains 4 mole eq. of NaOH to prevent conversion of the acetic acid moiety to its respective methyl ester.

**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:**

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**HANDLING:**

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:**

Our products are synthesized using single-product unambiguous routes whenever possible. 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. This 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 calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. 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 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

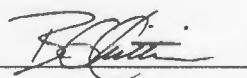


\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

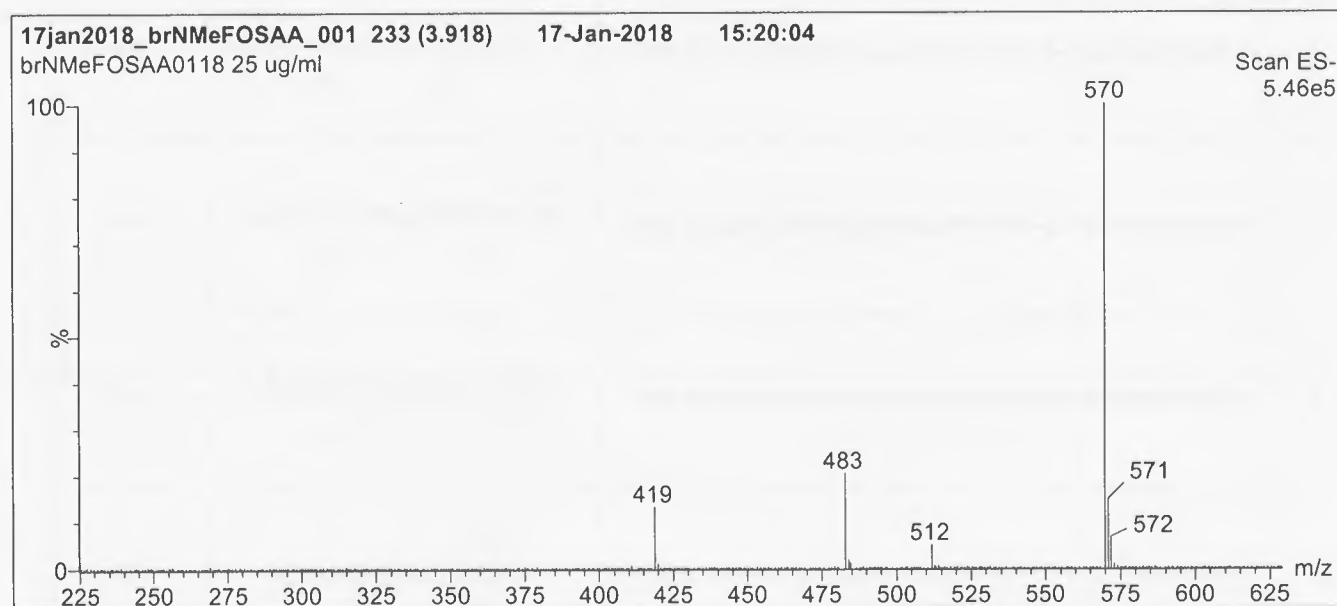
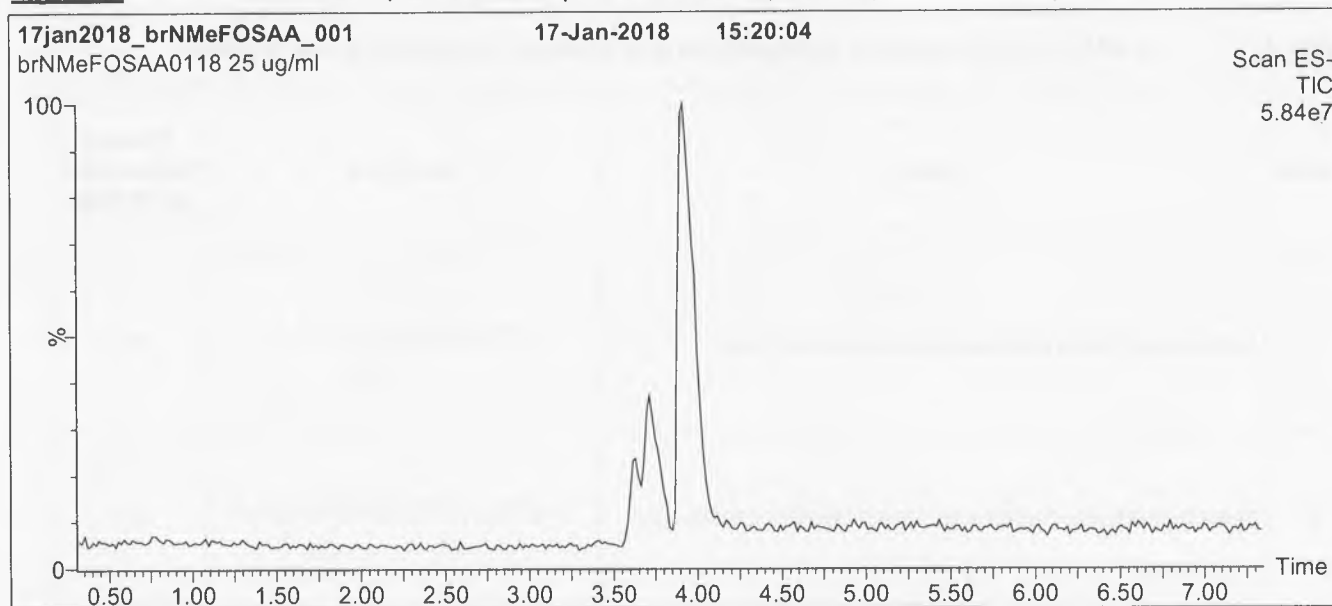
**Table A:** br-NMeFOSAA; Isomeric Components and Percent Composition (by <sup>19</sup>F-NMR)\*

Isomer	Name	Structure	Percent Composition by <sup>19</sup> F-NMR
1	N-methylperfluoro-1-octanesulfonamidoacetic acid	$\text{CF}_3(\text{CF}_2)_7\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ $\quad \quad \quad  $ $\quad \quad \quad \text{CH}_3$	76.0
2	N-methylperfluoro-3-methylheptanesulfonamidoacetic acid	$\text{CF}_3(\text{CF}_2)_3\text{CF}(\text{CF}_2)_2\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ $\quad \quad \quad   \quad \quad \quad  $ $\quad \quad \quad \text{CF}_3 \quad \quad \quad \text{CH}_3$	0.7
3	N-methylperfluoro-4-methylheptanesulfonamidoacetic acid	$\text{CF}_3(\text{CF}_2)_2\text{CF}(\text{CF}_2)_3\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ $\quad \quad \quad   \quad \quad \quad  $ $\quad \quad \quad \text{CF}_3 \quad \quad \quad \text{CH}_3$	2.0
4	N-methylperfluoro-5-methylheptanesulfonamidoacetic acid	$\text{CF}_3\text{CF}_2\text{CF}(\text{CF}_2)_4\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ $\quad \quad \quad   \quad \quad \quad  $ $\quad \quad \quad \text{CF}_3 \quad \quad \quad \text{CH}_3$	6.0
5	N-methylperfluoro-6-methylheptanesulfonamidoacetic acid	$\text{CF}_3\text{CF}(\text{CF}_2)_5\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ $\quad \quad \quad   \quad \quad \quad  $ $\quad \quad \quad \text{CF}_3 \quad \quad \quad \text{CH}_3$	14.0
6	N-methylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid	$\quad \quad \quad \text{CF}_3$ $\quad \quad \quad  $ $\text{CF}_3\text{C}(\text{CF}_2)_4\text{SO}_2\text{NCH}_2\text{CO}_2\text{H}$ $\quad \quad \quad   \quad \quad \quad  $ $\quad \quad \quad \text{CF}_3 \quad \quad \quad \text{CH}_3$	0.2
7	Other Unidentified Isomers		1.1

\* Percent of total N-methylperfluorooctanesulfonamidoacetic acid isomers only.

Certified By:   
B.G. Chittim, General Manager

Date: 03/22/2018  
(mm/dd/yyyy)

**Figure 1:** br-NMeFOSAA; LC/MS Data (TIC and Mass Spectrum)**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 55% (80:20 MeOH:ACN) / 45% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 7 min and hold for  
2 min before returning to initial conditions in 0.5 min.

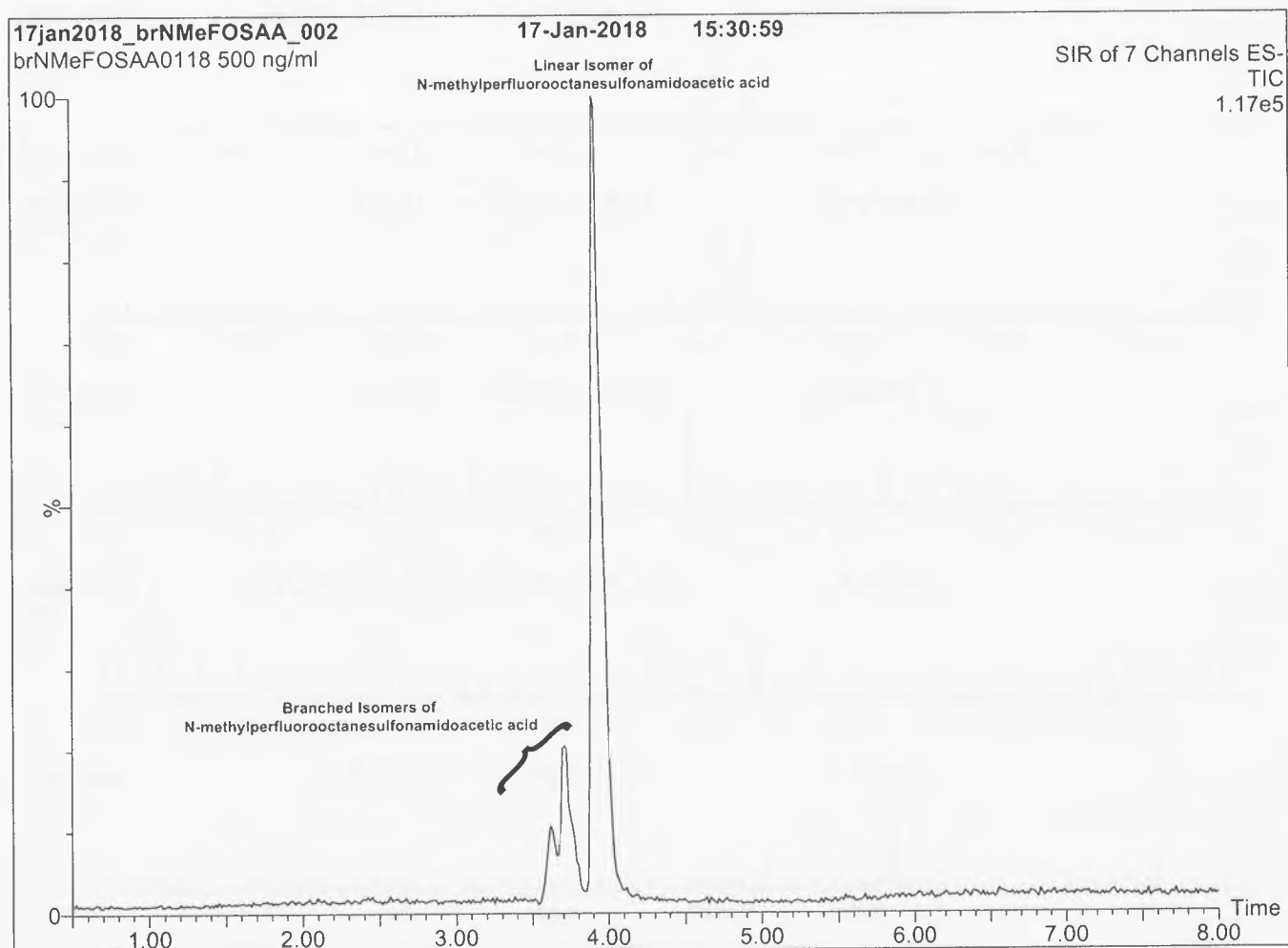
Time: 10 min

Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 35.00  
Cone Gas Flow (l/hr) = 50  
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** br-NMeFOSAA; LC/MS Data (SIR)**Conditions for Figure 2:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 55% (80:20 MeOH:ACN) / 45% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 7 min and hold for  
2 min before returning to initial conditions in 0.5 min.

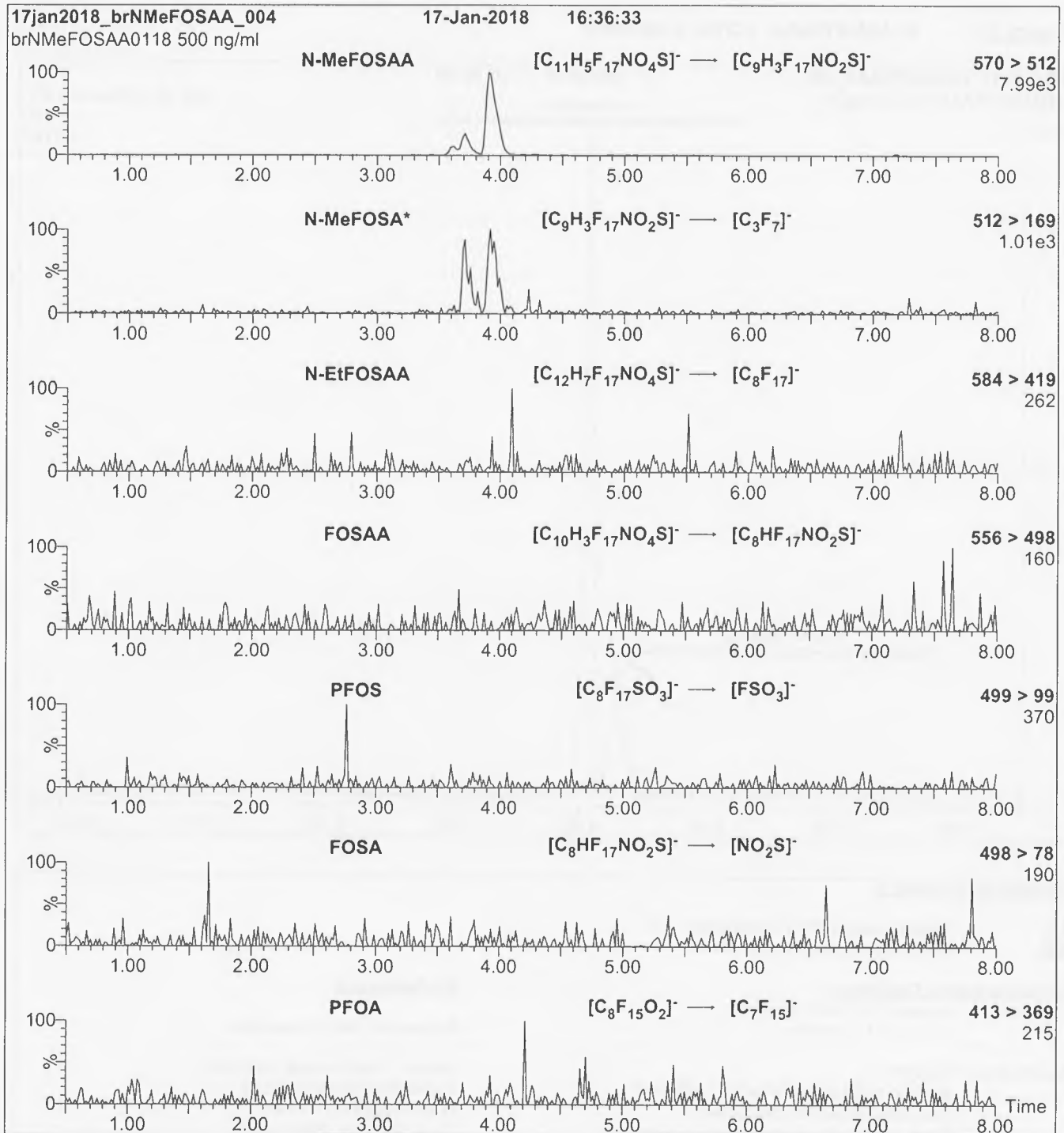
**MS Parameters**

Experiment: SIR (7 channels)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 15-60  
Cone Gas Flow (l/hr) = 50  
Desolvation Gas Flow (l/hr) = 750

Time: 10 min

Flow: 300  $\mu$ l/min

**Figure 3:** br-NMeFOSAA; LC/MS/MS Data (Selected MRM Transitions)

\*Note: N-MeFOSA is formed by in-source fragmentation.

**Conditions for Figure 3:**

Injection: On-column

**MS Parameters**

Mobile phase: Same as Figure 2

Collision Gas (mbar) = 3.39e-3  
Collision Energy (eV) = 11-40 (variable)

Flow: 300  $\mu$ l/min



It can be done

BDO Id: 180618-04

Reagent Receipt Report

Approved:  Authorized

Name: PFOA - Technical Mix Received: 6/18/2018  
 Vendor: Wellington Laboratories Custodian: Thorn, Jonathan  
 Catalogue No: T-PFOA Expires: 2/16/2022  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: TPFOA0217 Stored In: Sample Preparation - C0103  
 Quantity: 1 ea mL % Moisture: 0  
 Description: PFOA - Technical Mix

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
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Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_



180618-04



# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** T-PFOA **LOT NUMBER:** TPFOA0217  
**COMPOUND:** Technical Ammonium Perfluorooctanoate  
**STRUCTURE:** (see Table A) **CAS #:** 95328-99-7  
 (for linear ammonium perfluorooctanoate)  
**MOLECULAR FORMULA:** C<sub>8</sub>F<sub>15</sub>O<sub>2</sub>NH<sub>4</sub>  
**CONCENTRATION:** 50 ± 2.5 µg/ml (gravimetric)  
**CHEMICAL PURITY:** Technical material  
**SOLVENT(S):** Methanol/Water (<1%)  
**LAST TESTED:** (mm/dd/yyyy) 02/16/2017  
**EXPIRY DATE:** (mm/dd/yyyy) 02/16/2022  
**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.

### **FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

Certified By: \_\_\_\_\_

B.G. Chittim

Date: 02/22/2017

(mm/dd/yyyy)

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 for the identification and/or semi-quantitative determination of the specific chemical compound(s) 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.

**CHARACTERIZATION / HOMOGENEITY:**

This product is a technical mixture obtained from an industrial manufacturer. It has been characterized as to its content and components 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. Testing of samples in solution has shown it to be homogeneous. As this product is a technical mixture, it should not be used to quantitate any of the listed components.

**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 NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST.

**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).



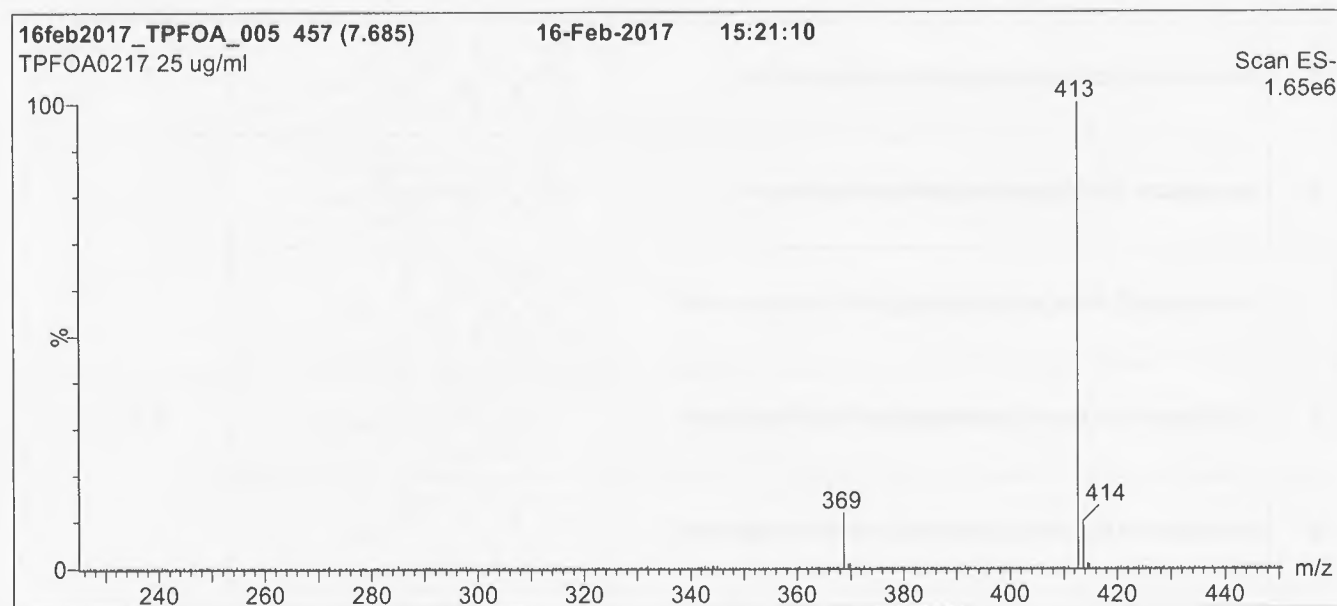
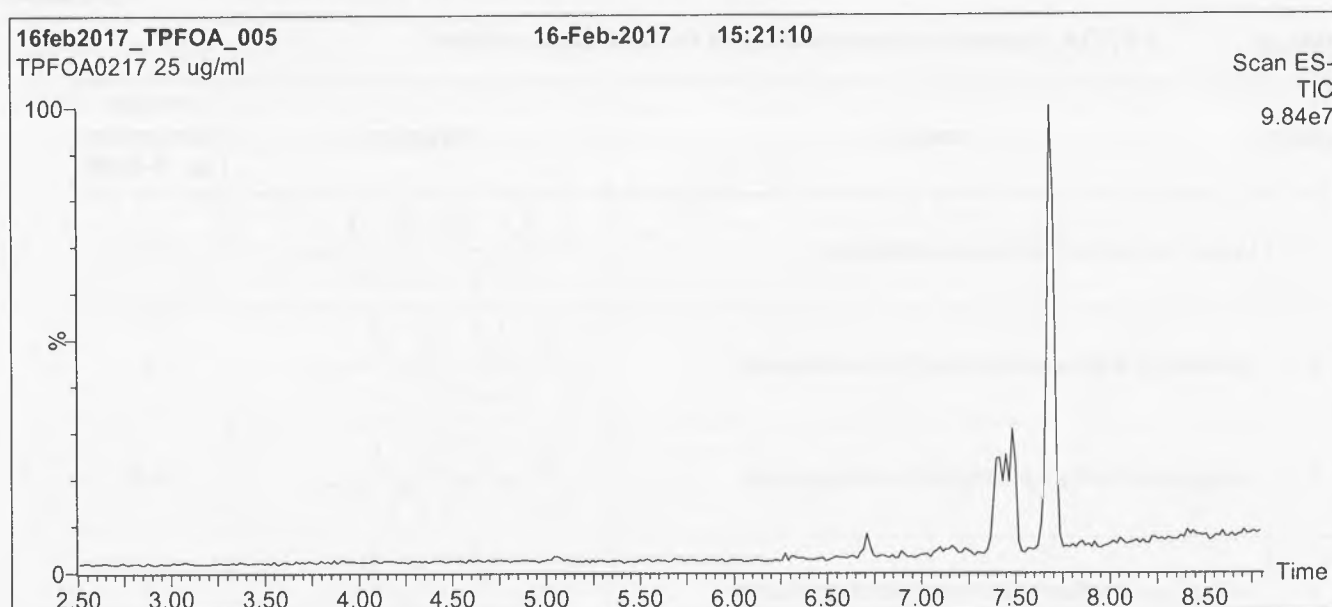
\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: T-PFOA; Isomeric Components and Percent Composition\***

Isomer	Name	Structure	Percent Composition by <sup>19</sup> F-NMR
1	Linear ammonium perfluoro-n-octanoate		79
2	Ammonium 6-trifluoromethylperfluoroheptanoate		9
3	Ammonium 5-trifluoromethylperfluoroheptanoate		4.5
4	Ammonium 4-trifluoromethylperfluoroheptanoate		4
5	Ammonium 3-trifluoromethylperfluoroheptanoate		3
6 <sup>a</sup>	Ammonium 2-trifluoromethylperfluoroheptanoate		0.5
7	Ammonium 5,5-bis(trifluoromethyl)perfluorohexanoate		
8	Ammonium 4,4-bis(trifluoromethyl)perfluorohexanoate		
9 <sup>a</sup>	Ammonium 4,5-bis(trifluoromethyl)perfluorohexanoate		
10	Ammonium 3,5-bis(trifluoromethyl)perfluorohexanoate		

\* Percent Composition was determined by <sup>19</sup>F-NMR. The percentages displayed are of total ammonium perfluorooctanoate isomers only (isomers are labelled in Figure 4).

<sup>a</sup> Presence of this isomer could not be verified by LC/MS due to co-elution.

**Figure 1: T-PFOA; LC/MS Data (TIC and Mass Spectrum)****Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions:**

Column: Kinetex PFP  
2.6  $\mu$ m, 4.6 x 100 mm

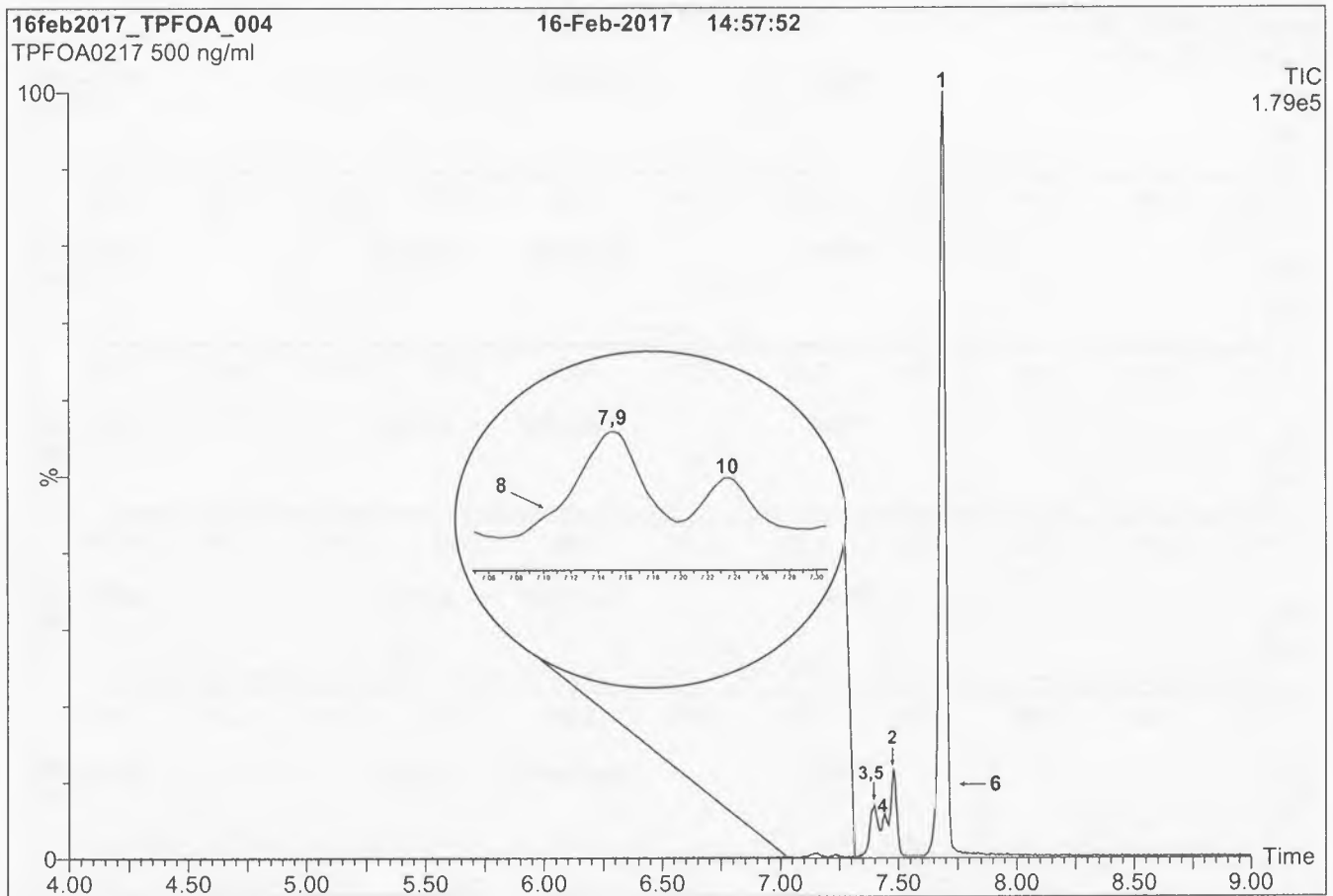
Mobile phase: Gradient  
Start: 30% (80:20 MeOH:ACN) / 70% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 50% organic over 5 min. Ramp to  
90% organic over 5 min and hold for 1.5 min.  
Return to initial conditions over 0.5 min.  
Time: 13 min

Flow: 1.0 ml/min

**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 15.00  
Cone Gas Flow (l/hr) = 100  
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** T-PFOA; LC/MS Data (SIR)**Conditions for Figure 2:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions:**

Column: Kinetex PFP  
2.6  $\mu$ m, 4.6 x 100 mm

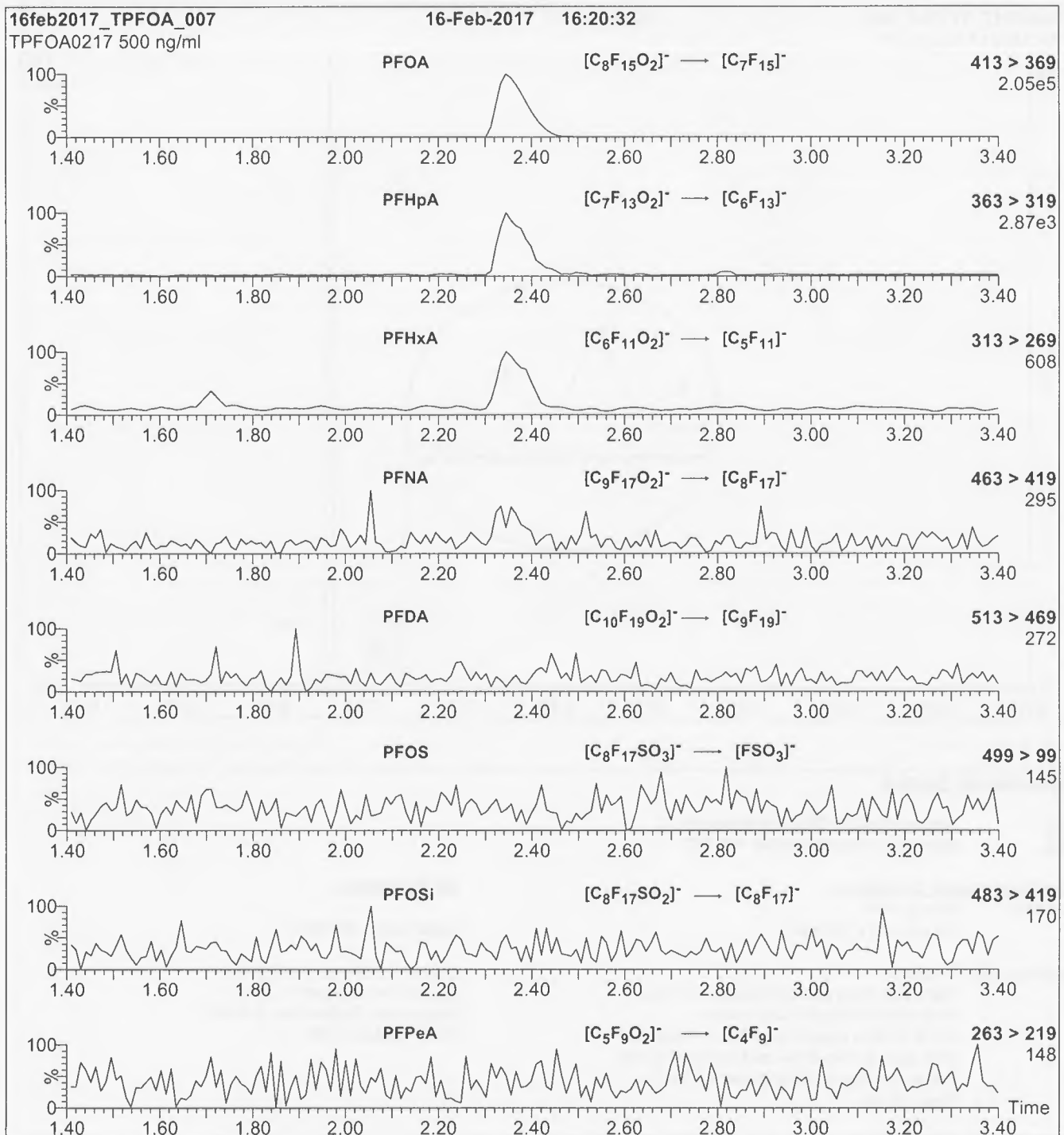
Mobile phase: Gradient  
Start: 30% (80:20 MeOH:ACN) / 70% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 50% organic over 5 min. Ramp to  
90% organic over 5 min and hold for 1.5 min.  
Return to initial conditions over 0.5 min.  
Time: 13 min

Flow: 1.0 ml/min

**MS Parameters:**

Experiment: SIR (ES)

Source conditions: see Figure 1  
Source Temperature = 110 °C  
Desolvation Temperature = 325 °C  
Cone Voltage = 15V

**Figure 3:** T-PFOA; LC/MS/MS Data (Selected MRM Transitions)**Conditions for Figure 3:**

Injection: Direct loop injection  
10  $\mu$ l (500 ng/ml T-PFOA)

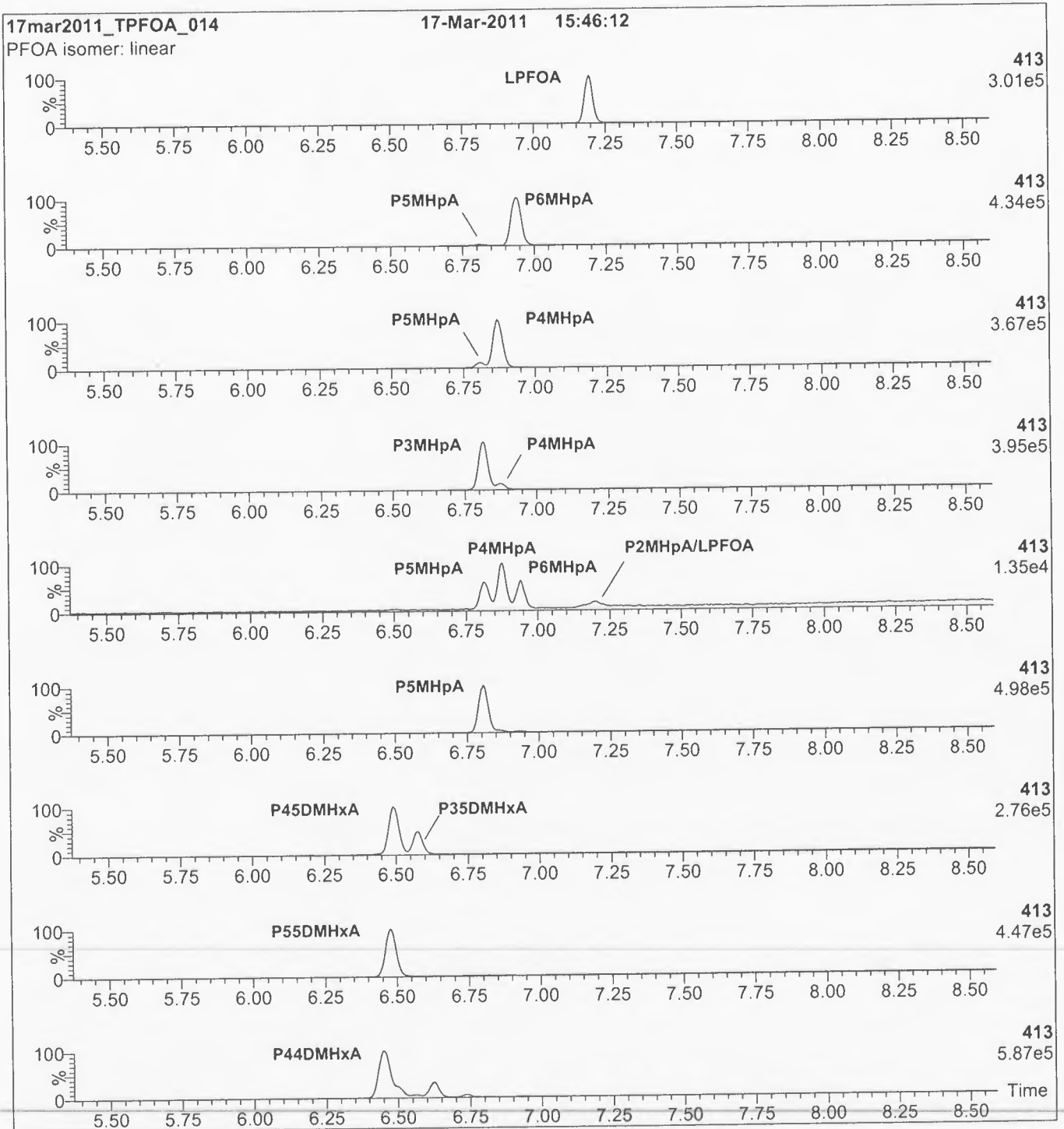
Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)

Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.39e-3  
Collision Energy (eV) = variable (9-40)

**Figure 4:** T-PFOA; LC/MS Elution Profile of the Perfluorooctanoic Acid Isomers



**Conditions for Figure 4:**

Same as Figure 2.



It can be done

BDO Id: 180618-06

### Reagent Receipt Report

Approved:  Authorized:

Name: Branched PFHxS Standard (50 µg/m Received: 6/18/2018  
 Vendor: Wellington Laboratories Custodian: Thorn, Jonathan  
 Catalogue No: br-PFHxSK Expires: 1/4/2022  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: brPFHxSK0117 Stored In: Sample Preparation - C0103  
 Quantity: 1 ea mL % Moisture: 0  
 Description: Branched PFHxS Standard (50 µg/mL)

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
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Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_



180618-06



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**br-PFHxSK**

**Potassium Perfluorohexanesulfonate  
Solution/Mixture of Linear and  
Branched Isomers**

**PRODUCT CODE:** br-PFHxSK  
**LOT NUMBER:** brPFHxSK0117  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml (total potassium salt)  
 45.5 ± 2.3 µg/ml (total PFHxS anion)  
**SOLVENT(S):** Methanol  
**DATE PREPARED:** (mm/dd/yyyy) 01/03/2017  
**LAST TESTED:** (mm/dd/yyyy) 01/04/2017  
**EXPIRY DATE:** (mm/dd/yyyy) 01/04/2022  
**RECOMMENDED STORAGE:** 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 <sup>19</sup>F-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.
- Contains ~ 0.5% of perfluoro-1-pentanesulfonate and ~ 0.2% of perfluoro-1-octanesulfonate.
- CAS#: 3871-99-6 (for linear isomer; potassium salt).

**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 are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

**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 NIST and/or NRC traceable external weights. All volumetric glassware used is 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](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A:** br-PFHxSK; Isomeric Components and Percent Composition (by  $^{19}\text{F-NMR}$ )\*

Isomer	Name	Structure	Percent Composition by $^{19}\text{F-NMR}$
1	Potassium perfluoro-1-hexanesulfonate	$\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3\cdot\text{K}^+$	81.1
2	Potassium 1-trifluoromethylperfluoropentanesulfonate**	$\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}(\text{SO}_3\cdot\text{K}^+)\text{CF}_3$	2.9
3	Potassium 2-trifluoromethylperfluoropentanesulfonate	$\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}(\text{CF}_3)\text{CF}_2\text{SO}_3\cdot\text{K}^+$	1.4
4	Potassium 3-trifluoromethylperfluoropentanesulfonate	$\text{CF}_3\text{CF}_2\text{CF}(\text{CF}_3)\text{CF}_2\text{CF}_2\text{SO}_3\cdot\text{K}^+$	5.0
5	Potassium 4-trifluoromethylperfluoropentanesulfonate	$\text{CF}_3\text{CF}(\text{CF}_3)\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3\cdot\text{K}^+$	8.9
6	Potassium 3,3-di(trifluoromethyl)perfluorobutanesulfonate	$\text{CF}_3\text{C}(\text{CF}_3)_2\text{CF}_2\text{CF}_2\text{SO}_3\cdot\text{K}^+$	0.2
7	Other Unidentified Isomers		0.5

\* Percent of total perfluorohexanesulfonate isomers only.

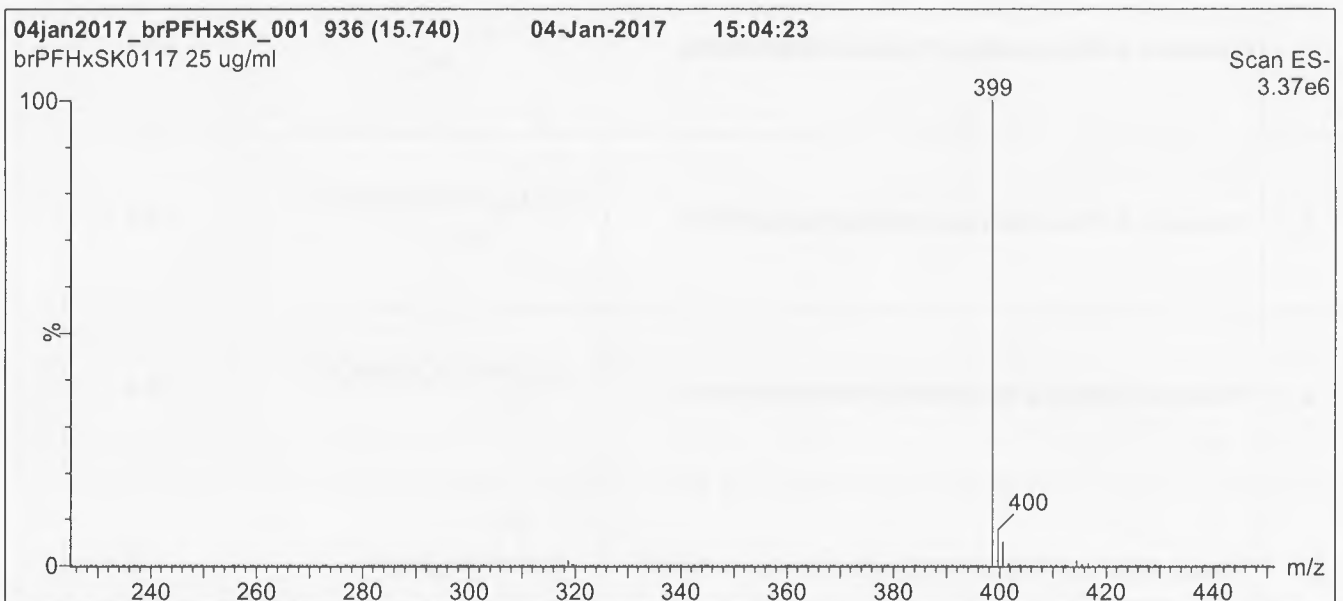
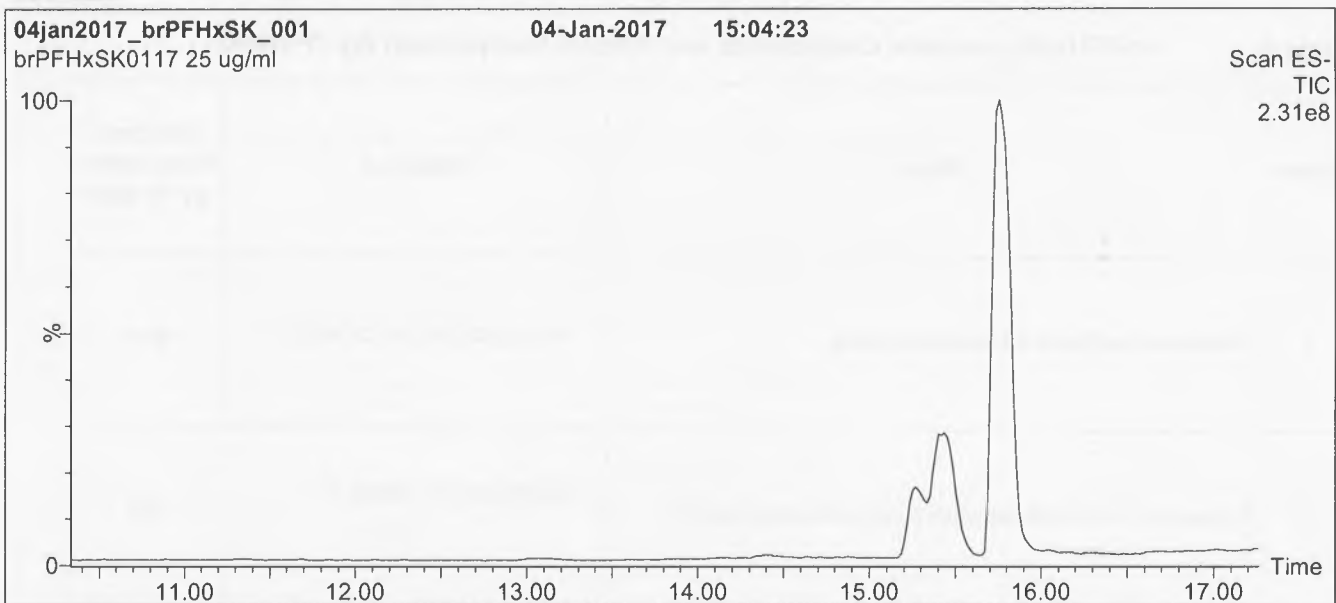
\*\* Systematic Name: Potassium perfluorohexane-2-sulfonate.

Certified By:

  
 B.G. Chittim

Date: 01/20/2017

(mm/dd/yyyy)

**Figure 1: br-PFHxSK; LC/MS Data (TIC and Mass Spectrum)****Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

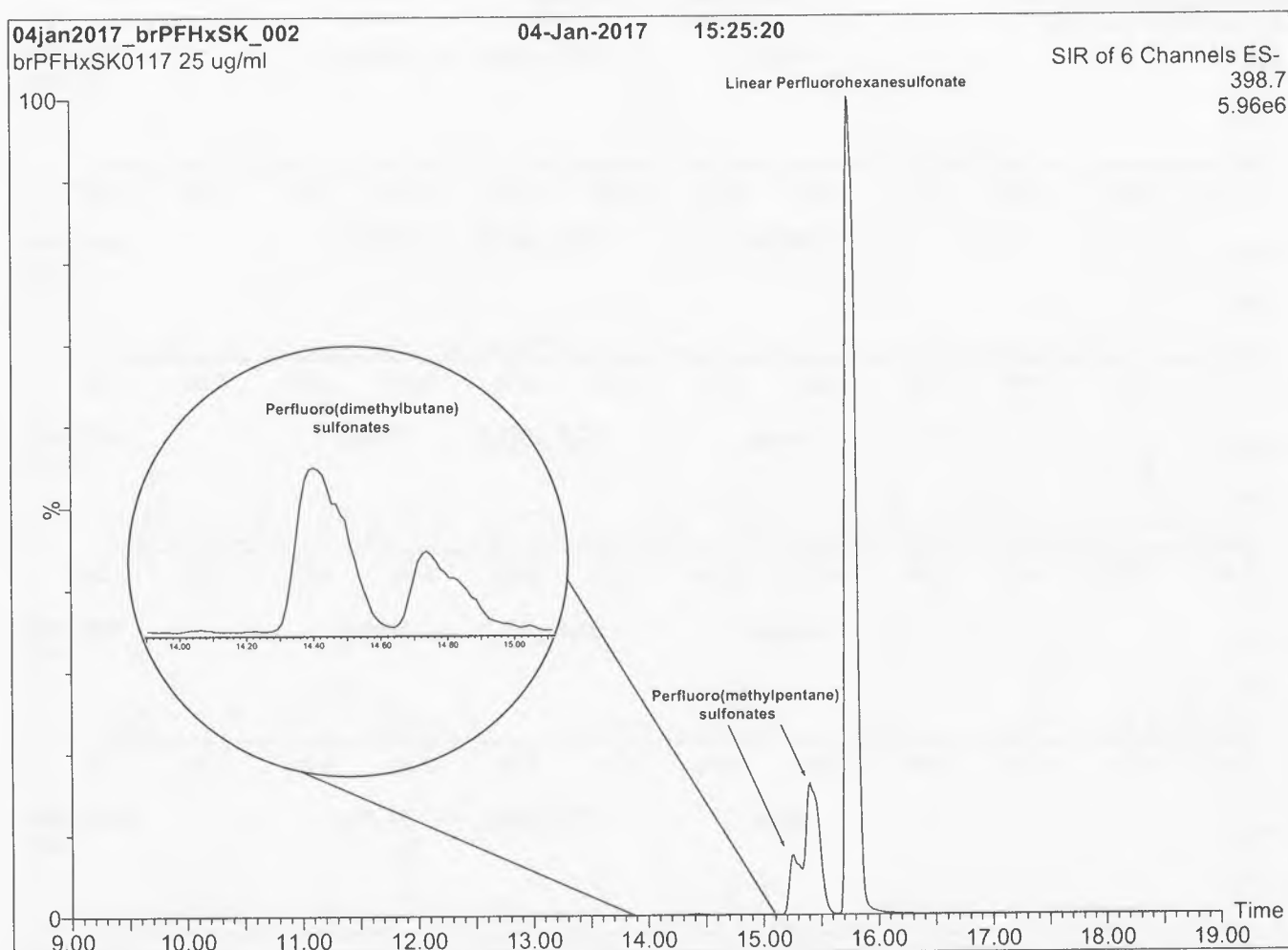
Mobile phase: Gradient  
Start: 20% (80:20 MeOH:ACN) / 80% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 50% organic over 14 min. Ramp to  
90% organic over 3 min and hold for 1.5 min  
before returning to initial conditions in 0.5 min.  
Time: 20 min

Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 50.00  
Cone Gas Flow (l/hr) = 60  
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** br-PFHxSK; LC/MS Data (SIR)**Conditions for Figure 2:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

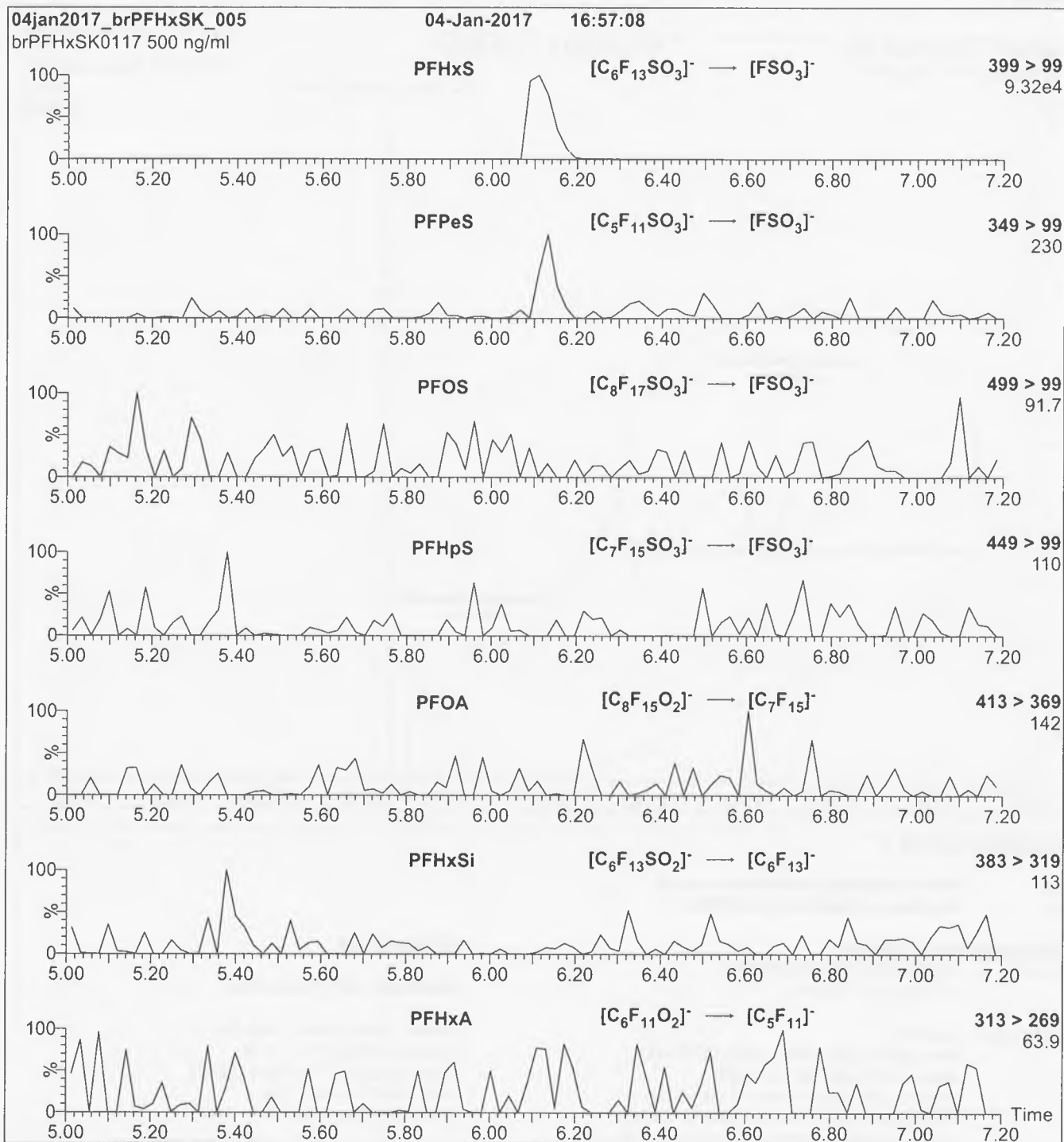
**Mobile phase:** Gradient  
Start: 20% (80:20 MeOH:ACN) / 80% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 50% organic over 14 min. Ramp to  
90% organic over 3 min and hold for 1.5 min  
before returning to initial conditions in 0.5 min.  
Time: 20 min

**Flow:** 300  $\mu$ l/min

**MS Parameters**

**Experiment:** SIR (6 channels)

**Source:** Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = variable (15-62)  
Cone Gas Flow (l/hr) = 60  
Desolvation Gas Flow (l/hr) = 750

**Figure 3:** br-PFHxSK; LC/MS/MS Data (Selected MRM Transitions)**Conditions for Figure 3:**

Injection: Direct loop injection  
10  $\mu$ l (500 ng/ml br-PFHxSK)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)

Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.35e-3  
Collision Energy (eV) = 30



It can be done

BDO Id: 180618-07

Reagent Receipt Report

Approved:  Authorized

Name: Branched PFOS Standard (50 µg/mL) Received: 6/18/2018  
 Vendor: Wellington Laboratories Custodian: Thorn, Jonathan  
 Catalogue No: br-PFOSK Expires: 1/12/2022  
 Type: Solution Consumed: \_\_\_\_\_  
 Lot No: brPFOSK0117 Stored In: Sample Preparation - C0103  
 Quantity: 1 ea mL % Moisture: 0  
 Description: Branched PFOS Standard (50 µg/mL)

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Cert Val:	Lower Limit:	Upper Limit:
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Notes:

Approved by: \_\_\_\_\_ Approved on: \_\_\_\_\_  
 Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_

180618-07



**WELLINGTON**  
LABORATORIES

**CERTIFICATE OF ANALYSIS**  
DOCUMENTATION

**br-PFOSK**

**Potassium Perfluorooctanesulfonate  
Solution/Mixture of Linear and  
Branched Isomers**

<b><u>PRODUCT CODE:</u></b>	br-PFOSK
<b><u>LOT NUMBER:</u></b>	brPFOSK0117
<b><u>CONCENTRATION:</u></b>	50 ± 2.5 µg/ml (total potassium salt) 46.4 ± 2.3 µg/ml (total PFOS anion)
<b><u>SOLVENT(S):</u></b>	Methanol
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	01/09/2017
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	01/12/2017
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	01/12/2022
<b><u>RECOMMENDED STORAGE:</u></b>	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 <sup>19</sup>F-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).

**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



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**HOMOGENEITY:**

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**EXPIRY DATE / PERIOD OF VALIDITY:**

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**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](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

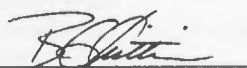


**Table A: br-PFOSK; Isomeric Components and Percent Composition (by <sup>19</sup>F-NMR)\***

Isomer	Name	Structure	Percent Composition by <sup>19</sup> F-NMR
1	Potassium perfluoro-1-octanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>	78.8
2	Potassium 1-trifluoromethylperfluoroheptanesulfonate**	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	1.2
3	Potassium 2-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.6
4	Potassium 3-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	1.9
5	Potassium 4-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	2.2
6	Potassium 5-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	4.5
7	Potassium 6-trifluoromethylperfluoroheptanesulfonate	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	10.0
8	Potassium 5,5-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CCF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.2
9	Potassium 4,4-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CF <sub>2</sub> CCF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.03
10	Potassium 4,5-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.4
11	Potassium 3,5-di(trifluoromethyl)perfluorohexanesulfonate	CF <sub>3</sub>   CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> K <sup>+</sup>   CF <sub>3</sub>	0.07

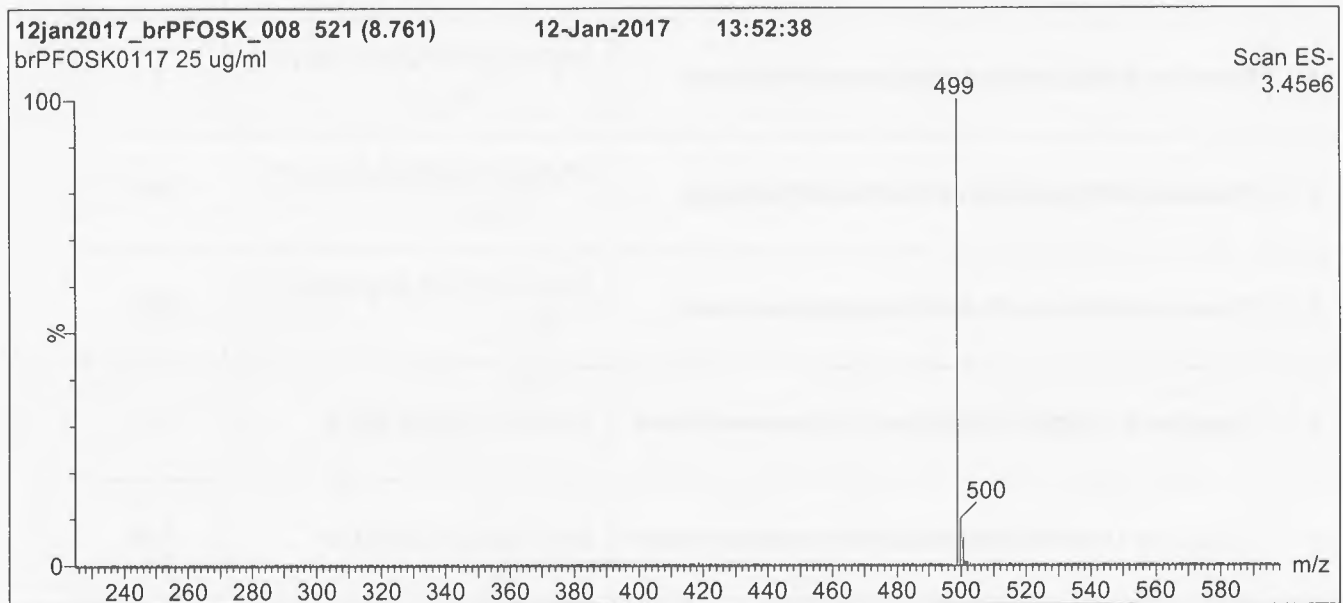
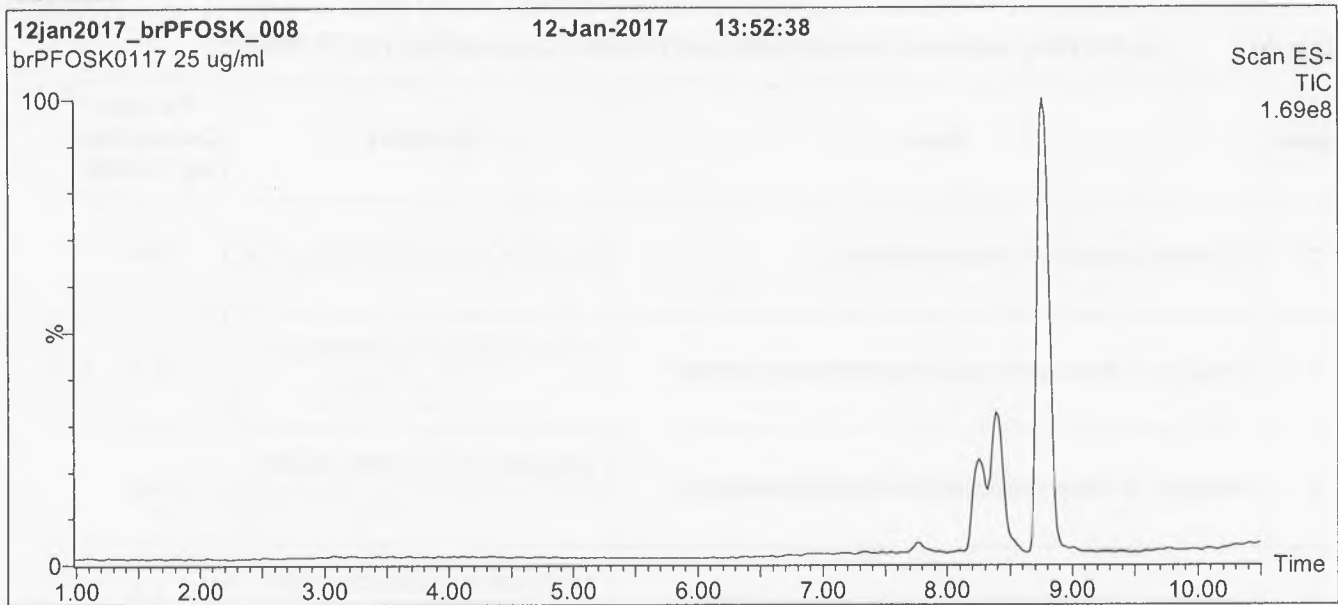
\* Percent of total perfluorooctanesulfonate isomers only. Isomers are labelled in Figure 2.  
 \*\* Systematic Name: Potassium perfluorooctane-2-sulfonate.

Certified By:

  
 B.G. Chittim

Date: 01/20/2017

(mm/dd/yyyy)

**Figure 1: br-PFOSK; LC/MS Data (TIC and Mass Spectrum)****Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

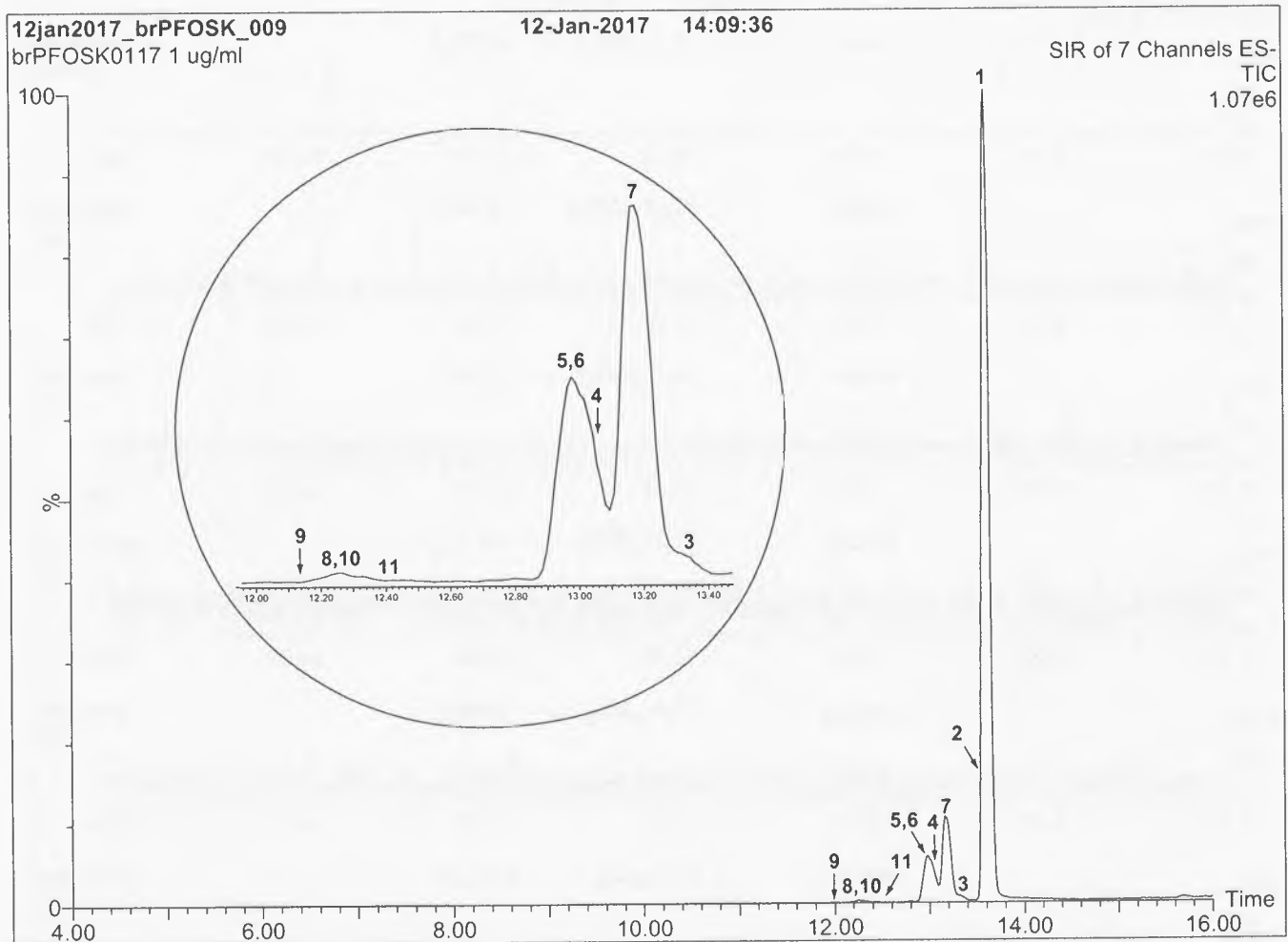
Mobile phase: Gradient  
Start: 45% (80:20 MeOH:ACN) / 55% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 12 min and hold for 2 min.  
Return to initial conditions over 0.5 min.  
Time: 16 min

Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 3.00  
Cone Voltage (V) = 60.00  
Cone Gas Flow (l/hr) = 50  
Desolvation Gas Flow (l/hr) = 750

**Figure 2:** br-PFOSK; LC/MS Data (SIR)**Conditions for Figure 2:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub> (1.7  $\mu$ m, 2.1 x 100 mm)

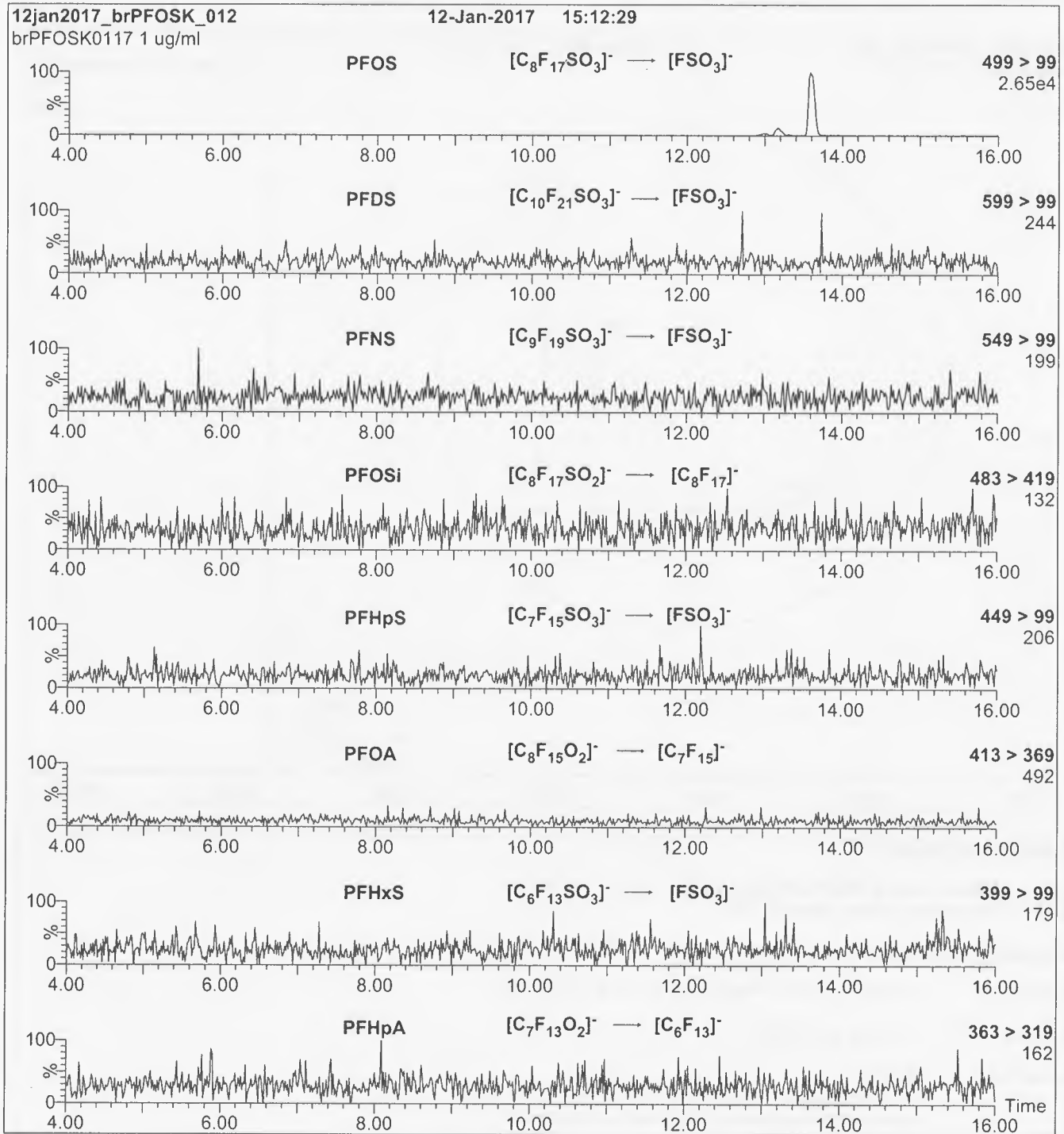
Injection: 1.0  $\mu$ g/ml of br-PFOSK

Mobile Phase: Gradient  
45% (80:20 MeOH:ACN) / 55% H<sub>2</sub>O (both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 15 min and hold for 3 min.  
Return to initial conditions over 1 min.  
Time: 20 min

Flow: 300  $\mu$ l/min

**MS Conditions:**

SIR (ES)  
Source = 110 °C  
Desolvation = 325 °C  
Cone Voltage = 60V

**Figure 3: br-PFOSK; LC/MS/MS Data (Selected MRM Transitions)****Conditions for Figure 3:**

Injection: On-column

Mobile phase: Same as Figure 2

Flow: 300  $\mu$ l/min**MS Parameters**

Collision Gas (mbar) = 3.31e-3

Collision Energy (eV) = 11-50 (variable)



**CERTIFIED WEIGHT REPORT**

**Part Number:** 99207  
**Lot Number:** 061918  
**Description:** PFOA - DOD  
24 components  
**Expiration Date:** 061923  
**Recommended Storage:** Freezer (0 °C)  
**Nominal Concentration (µg/mL):** 1.0  
**NIST Test ID#:** 2684186

**Solvent(s):** Methanol (1 mM KOH)  
2-Propanol  
**Lot#** 061918 (98%)  
23214 (2%)  
5E-05 Balance Uncertainty  
0.007 Flask Uncertainty

		061918
Formulated By:	Mario Luis	DATE
		061918
Reviewed By:	Pedro L. Rentas	DATE

Volume(s) shown below were combined and diluted to (mL):  
**Note: All assigned values are anion concentrations.**

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)	SDS Information (Solvent Safety Info. On Attached pg.)		
									CAS#	OSHA PEL (TWA)	LD50
1. Perfluoro-n-butanoic acid (linear) -	99542	110317	0.02	1.00	0.004	50.2	1.00	0.01	375-22-4	N/A	N/A
2. Perfluoro-n-pentanoic acid -	99543	110317	0.02	1.00	0.004	50.7	1.01	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	ort-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	FOSA0817I	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	NMeFOSAA0118	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	NEtFOSAA0118	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-pentanesulfonate -	99544	111017	0.02	0.98	0.004	51.3	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	LPFNS0917	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

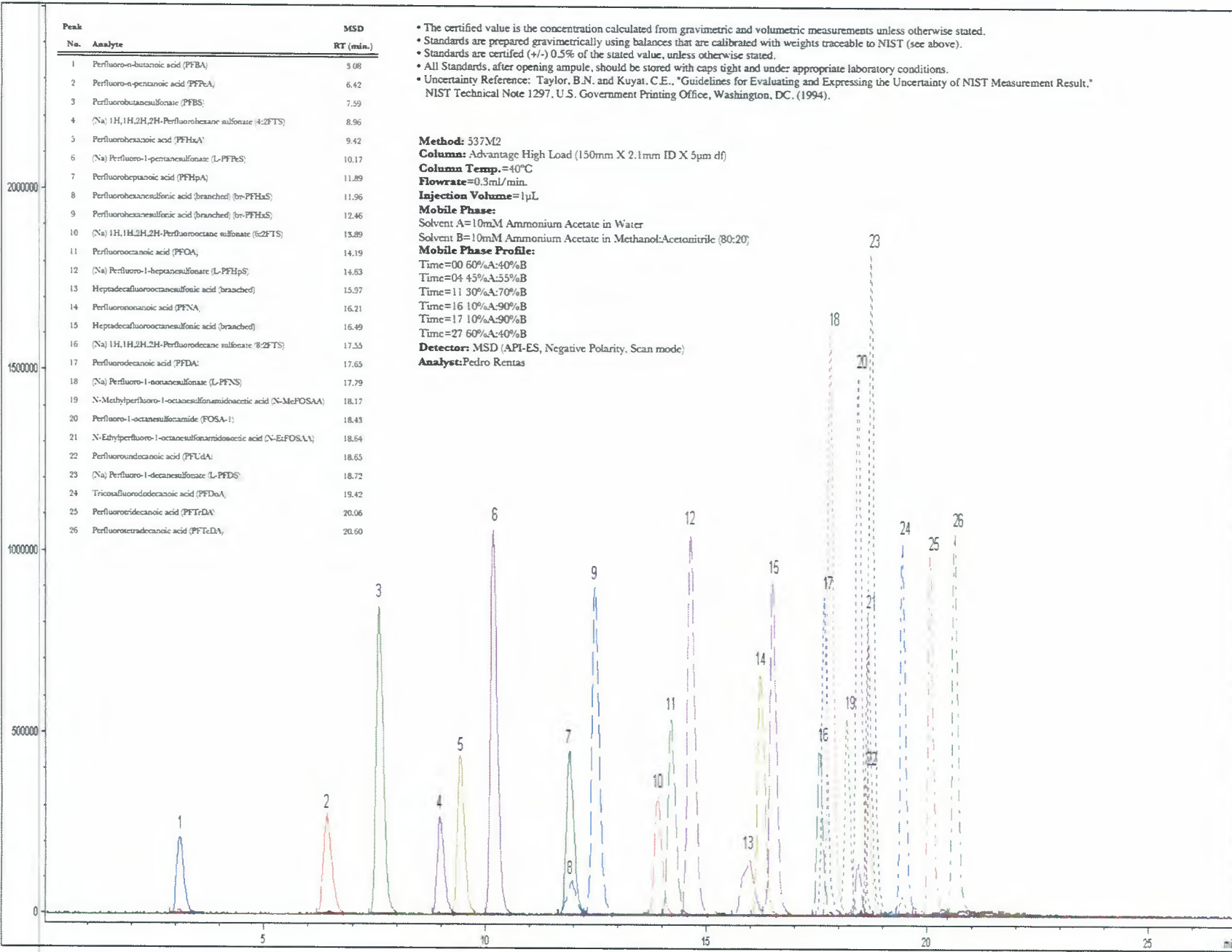




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, 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).

**Method:** 537M2  
**Column:** Advantage High Load (150mm X 2.1mm ID X 5µm df)  
**Column Temp.** = 40°C  
**Flowrate** = 0.3ml/min.  
**Injection Volume** = 1µL  
**Mobile Phase:**  
 Solvent A = 10mM Ammonium Acetate in Water  
 Solvent B = 10mM Ammonium Acetate in Methanol:Acetonitrile (80:20)  
**Mobile Phase Profile:**  
 Time = 00 60%A:40%B  
 Time = 04 45%A:55%B  
 Time = 11 30%A:70%B  
 Time = 16 10%A:90%B  
 Time = 17 10%A:90%B  
 Time = 27 60%A:40%B  
**Detector:** MSD (API-ES, Negative Polarity, Scan mode)  
**Analyst:** Pedro Rentas

Peak No.	Analyte	MSD RT (min.)
1	Perfluoro-n-butanoic acid (PFBA)	3.08
2	Perfluoro-n-pentanoic acid (PFPeA)	6.42
3	Perfluorobutanesulfonate (PFBS)	7.59
4	(Na) 1H,1H,2H,2H-Perfluorohexane sulfonate (4:2FTS)	8.96
5	Perfluorohexanoic acid (PFHxA)	9.42
6	(Na) Perfluoro-1-pentanesulfonate (L-PFPeS)	10.17
7	Perfluorooheptanoic acid (PFHpA)	11.89
8	Perfluorohexanesulfonic acid (branched) (br-PFHxS)	11.96
9	Perfluorohexanesulfonic acid (branched) (br-PFHxS)	12.46
10	(Na) 1H,1H,2H,2H-Perfluorooctane sulfonate (6:2FTS)	13.89
11	Perfluorooctanoic acid (PFOA)	14.19
12	(Na) Perfluoro-1-heptanesulfonate (L-PFHpS)	14.63
13	Heptafluorooctanesulfonic acid (branched)	15.57
14	Perfluorononanoic acid (PFNA)	16.21
15	Heptafluorooctanesulfonic acid (branched)	16.49
16	(Na) 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2FTS)	17.55
17	Perfluorodecanoic acid (PFDA)	17.65
18	(Na) Perfluoro-1-nonanesulfonate (L-PFNs)	17.79
19	N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	18.17
20	Perfluoro-1-octanesulfonamide (FOSA-1)	18.43
21	N-Ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)	18.64
22	Perfluoroundecanoic acid (PFUDA)	18.65
23	(Na) Perfluoro-1-decenesulfonate (L-PFDS)	18.72
24	Tricosafluorododecanoic acid (PFDA)	19.42
25	Perfluorotridecanoic acid (PFTrDA)	20.06
26	Perfluorotetradecanoic acid (PFTeDA)	20.60



It can be done

BDO Id: 180726-04

## Reagent Receipt Report

Approved:  Authorized 

Name: Mass-labelled PFAS injection standar Received: 7/26/2018  
Vendor: Wellington Laboratories Custodian: Thorn, Jonathan  
Catalogue No: MPFAC-C-IS Expires: 5/2/2022  
Type: Solution Consumed: \_\_\_\_\_  
Lot No: MPFACCIS0516 Stored In: LC Laboratory - R0107  
Quantity: 2 ea 1.2 mL % Moisture: 0  
Description: Mass-labelled PFAS injection standards

Analyte:	CAS No:	Concentration (ug/mL):	Purity:	Density:	Density Units:	Cert Val:	Lower Limit:	Upper Limit:
13C2-PFDA	BDO-2110	2.0000	100.00	--	--	<input type="checkbox"/>		
13C2-PFOA	BDO-2107	2.0000	100.00	--	--	<input type="checkbox"/>		
13C3-PFBA	BDO-2231	2.0000	100.00	--	--	<input type="checkbox"/>		
13C4-PFOS	BDO-2121	1.9140	100.00	--	--	<input type="checkbox"/>		

Total Analytes: 4

Notes:

Approved by: Lizotte Jr, Robert Approved on: 7/27/2018 11:10:00 AM  
Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_

**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 (<sup>13</sup>C) perfluoroalkylcarboxylic acids and a mass-labelled (<sup>13</sup>C) 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 <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).



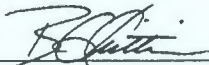
\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: MPFAC-C-IS; Components and Concentrations (ng/ml; ± 5% in Methanol / Water (<1%))**

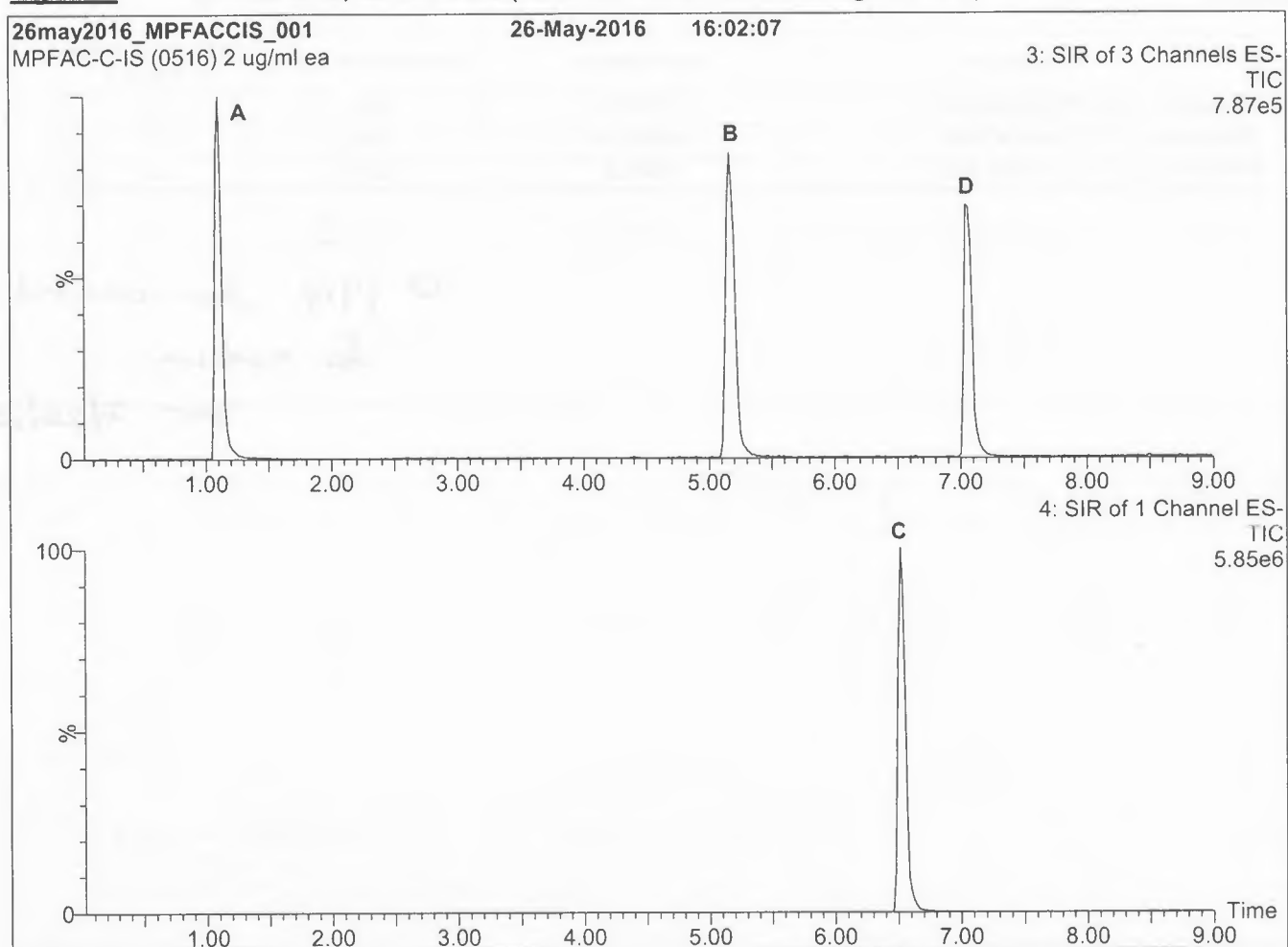
Compound	Abbreviation	Concentration (ng/ml)	Peak Assignment in Figure 1
Perfluoro-n-[2,3,4- <sup>13</sup> C <sub>3</sub> ]butanoic acid	M3PFBA	2000	A
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]octanoic acid	M2PFOA	2000	B
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-[1,2,3,4- <sup>13</sup> C <sub>4</sub> ]octanesulfonate	MPFOS	2000 <sup>Ⓢ</sup>	C

Ⓢ 1914 when corrected  
for sodium

JMS 7/26/2017

Certified By:   
B.G. Chittim, General Manager

Date: 05/04/2017  
(mm/dd/yyyy)

**Figure 1: MPFAC-C-IS; LC/MS Data (Total Ion Current Chromatogram; SIR)****Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

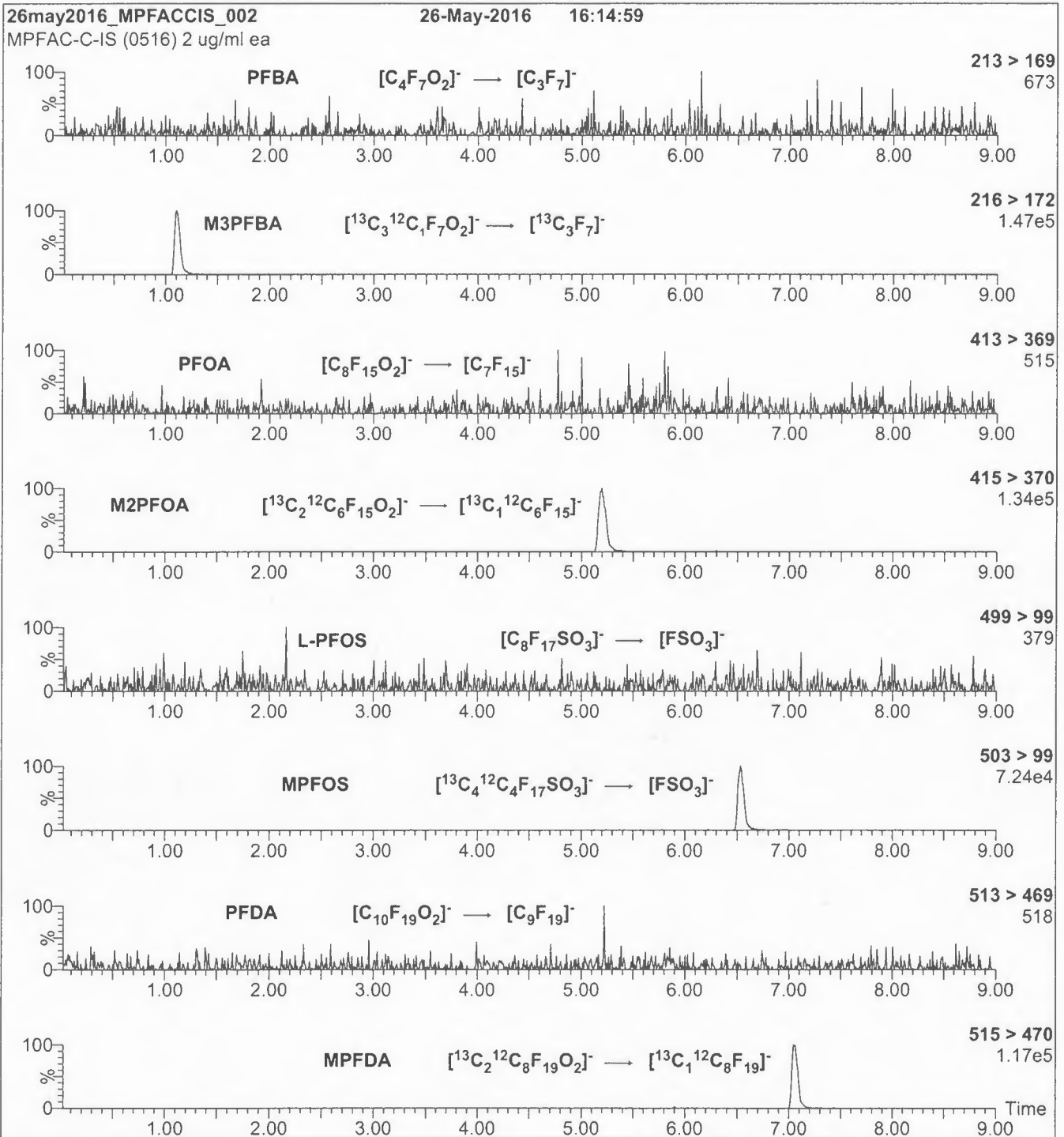
Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min  
 and hold for 2 min before returning  
 to initial conditions in 1 min.  
 Time: 12 min

Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: SIR

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 2.00  
 Cone Voltage (V) = variable (10-80)  
 Cone Gas Flow (l/hr) = 50  
 Desolvation Gas Flow (l/hr) = 750

**Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)****Conditions for Figure 2:**

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300  $\mu$ l/min**MS Parameters**

Collision Gas (mbar) = 3.50e-3

Collision Energy (eV) = 8-50 (variable)

It can be done

BDO Id: 180726-05

## Reagent Receipt Report

Approved:  Authorized 

Name: Mass-labelled PFAS Extraction Stand Received: 7/26/2018  
Vendor: Wellington Laboratories Custodian: Thorn, Jonathan  
Catalogue No: MPFAC-24ES Expires: 2/7/2023  
Type: Solution Consumed: \_\_\_\_\_  
Lot No: MPFAC24ES0218 Stored In: LC Laboratory - R0107  
Quantity: 2 ea 1.2 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:
13C2-4:2FTS	BDO-2229	0.9350	100.00	--	--	<input type="checkbox"/>			
13C2-6:2FTS	BDO-2230	0.9490	100.00	--	--	<input type="checkbox"/>			
13C2-8:2FTS	BDO-2220	0.9580	100.00	--	--	<input type="checkbox"/>			
13C2-PFDoA	BDO-2112	1.0000	100.00	--	--	<input type="checkbox"/>			
13C2-PFTeDA	BDO-2224	1.0000	100.00	--	--	<input type="checkbox"/>			
13C3-PFBS	BDO-2226	0.9290	100.00	--	--	<input type="checkbox"/>			
13C3-PFHxS	BDO-2227	0.9460	100.00	--	--	<input type="checkbox"/>			
13C4-PFBA	BDO-2105	1.0000	100.00	--	--	<input type="checkbox"/>			
13C4-PFHpA	BDO-2218	1.0000	100.00	--	--	<input type="checkbox"/>			
13C5-PFHxA	BDO-2217	1.0000	100.00	--	--	<input type="checkbox"/>			
13C5-PFPeA	BDO-2216	1.0000	100.00	--	--	<input type="checkbox"/>			
13C6-PFDA	BDO-2222	1.0000	100.00	--	--	<input type="checkbox"/>			
13C7-PFUnA	BDO-2223	1.0000	100.00	--	--	<input type="checkbox"/>			
13C8-FOSA	BDO-2225	1.0000	100.00	--	--	<input type="checkbox"/>			
13C8-PFOA	BDO-2219	1.0000	100.00	--	--	<input type="checkbox"/>			
13C8-PFOS	BDO-2228	0.9570	100.00	--	--	<input type="checkbox"/>			
13C9-PFNA	BDO-2221	1.0000	100.00	--	--	<input type="checkbox"/>			
d3-MeFOSAA	BDO-1838	1.0000	100.00	--	--	<input type="checkbox"/>			
d5-EtFOSAA	BDO-1839	1.0000	100.00	--	--	<input type="checkbox"/>			

Total Analytes: 19

Notes:

Approved by: Lizotte Jr, Robert Approved on: 7/27/2018 11:10:00 AM  
Authorized by: \_\_\_\_\_ Authorized on: \_\_\_\_\_

**WELLINGTON**  
LABORATORIESCERTIFICATE OF ANALYSIS  
DOCUMENTATION**MPFAC-24ES****Mass-Labelled Per- and Poly-fluoroalkyl Substance  
Extraction Standard Solution**

**PRODUCT CODE:** MPFAC-24ES  
**LOT NUMBER:** MPFAC24ES0218  
**SOLVENT(S):** Methanol / Isopropanol (2%) / Water (<1%)  
**DATE PREPARED:** (mm/dd/yyyy) 02/07/2018  
**LAST TESTED:** (mm/dd/yyyy) 02/07/2018  
**EXPIRY DATE:** (mm/dd/yyyy) 02/07/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DESCRIPTION:**

MPFAC-24ES is a solution/mixture of ten mass-labelled (<sup>13</sup>C) perfluoroalkylcarboxylic acids (C<sub>4</sub>-C<sub>12</sub> and C<sub>14</sub>), three mass-labelled (<sup>13</sup>C) perfluoroalkylsulfonates (C<sub>4</sub>, C<sub>6</sub>, and C<sub>8</sub>), three mass-labelled (<sup>13</sup>C) telomer sulfonates (4:2, 6:2, and 8:2), two mass-labelled (<sup>2</sup>H) perfluorooctanesulfonamidoacetic acids, and perfluoro-1-[<sup>13</sup>C<sub>8</sub>]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-[<sup>13</sup>C<sub>8</sub>]octanesulfonamide all have chemical purities of >98% and isotopic purities of ≥99%. The individual mass-labelled perfluorooctanesulfonamidoacetic acids all have chemical purities of >98% and isotopic purities of ≥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.

**HANDLING:**

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:**

Our products are synthesized using single-product unambiguous routes whenever possible. 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. This 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 calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. 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 17034 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](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

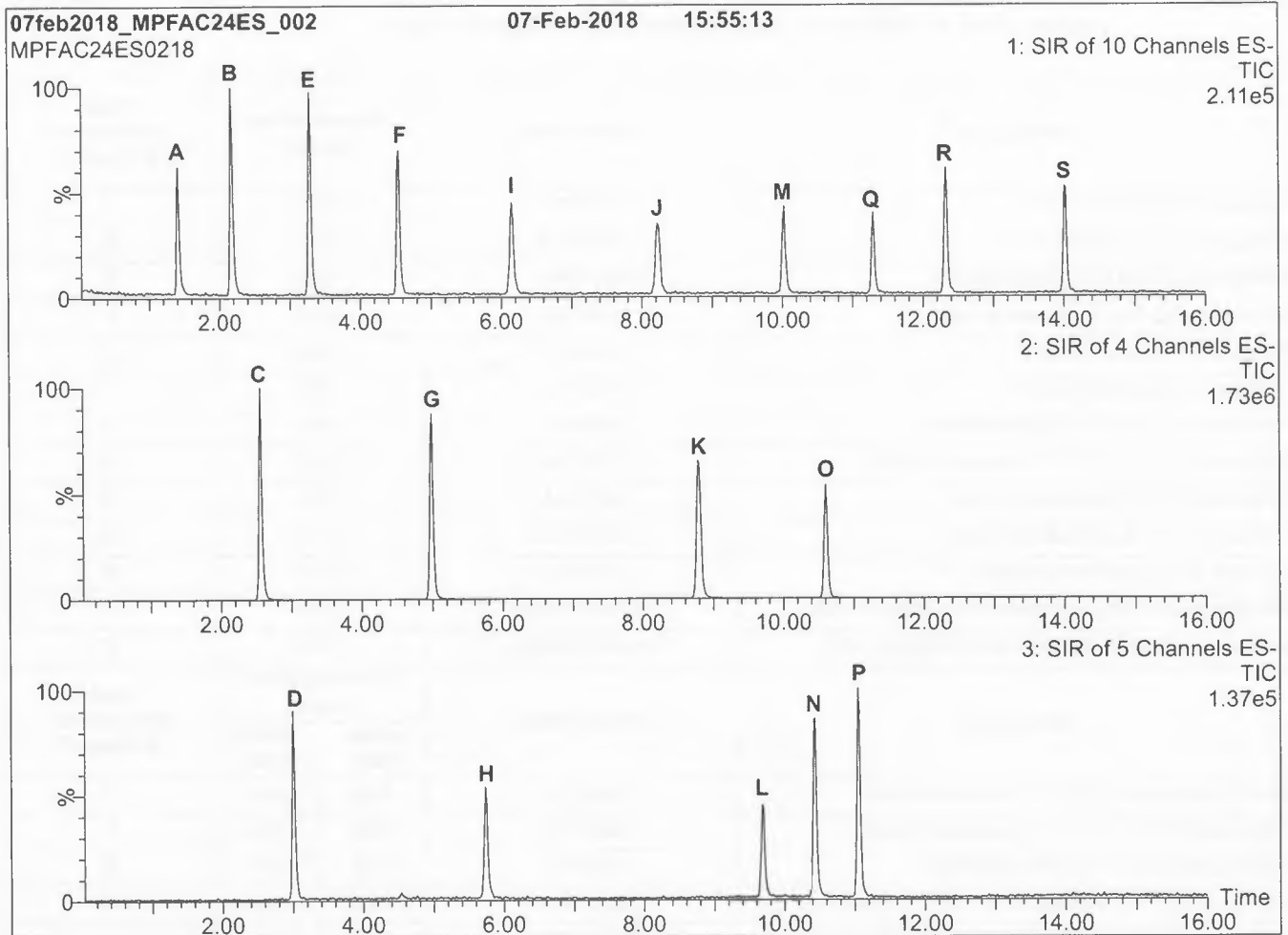
**Table A: MPFAC-24ES; Components and Concentrations**  
(ng/ml,  $\pm$  5% in Methanol / Isopropanol (2%) / Water (<1%))

Compound	Abbreviation	Concentration (ng/ml)		Peak Assignment in Figure 1
		as the salt	as the anion	
Perfluoro-n-[ $^{13}\text{C}_4$ ]butanoic acid	MPFBA	1000		A
Perfluoro-n-[ $^{13}\text{C}_5$ ]pentanoic acid	M5PFPeA	1000		B
Perfluoro-n-[1,2,3,4,6- $^{13}\text{C}_5$ ]hexanoic acid	M5PFHxA	1000		E
Perfluoro-n-[1,2,3,4- $^{13}\text{C}_4$ ]heptanoic acid	M4PFHpA	1000		F
Perfluoro-n-[ $^{13}\text{C}_6$ ]octanoic acid	M8PFOA	1000		I
Perfluoro-n-[ $^{13}\text{C}_7$ ]nonanoic acid	M9PFNA	1000		J
Perfluoro-n-[1,2,3,4,5,6- $^{13}\text{C}_6$ ]decanoic acid	M6PFDA	1000		M
Perfluoro-n-[1,2,3,4,5,6,7- $^{13}\text{C}_7$ ]undecanoic acid	M7PFUdA	1000		Q
Perfluoro-n-[1,2- $^{13}\text{C}_2$ ]dodecanoic acid	MPFDoA	1000		R
Perfluoro-n-[1,2- $^{13}\text{C}_2$ ]tetradecanoic acid	M2PFTeDA	1000		S
Perfluoro-1-[ $^{13}\text{C}_8$ ]octanesulfonamide	M8FOSA	1000		O
N-methyl- $\text{d}_3$ -perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	1000		N
N-ethyl- $\text{d}_5$ -perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	1000		P
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	M3PFBS	1000	929	C
Sodium perfluoro-1-[1,2,3- $^{13}\text{C}_3$ ]hexanesulfonate	M3PFHxS	1000	946	G
Sodium perfluoro-1-[ $^{13}\text{C}_8$ ]octanesulfonate	M8PFOS	1000	957	K
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$ ]hexanesulfonate	M2-4:2FTS	1000	935	D
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$ ]octanesulfonate	M2-6:2FTS	1000	949	H
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$ ]decanesulfonate	M2-8:2FTS	1000	958	L

Certified By:   
B.G. Chittim, General Manager

Date: 02/09/2018  
(mm/dd/yyyy)



**Figure 1: MPFAC-24ES; LC/MS Data (Total Ion Current Chromatogram; SIR)****Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Micromass Quattro *micro* API MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

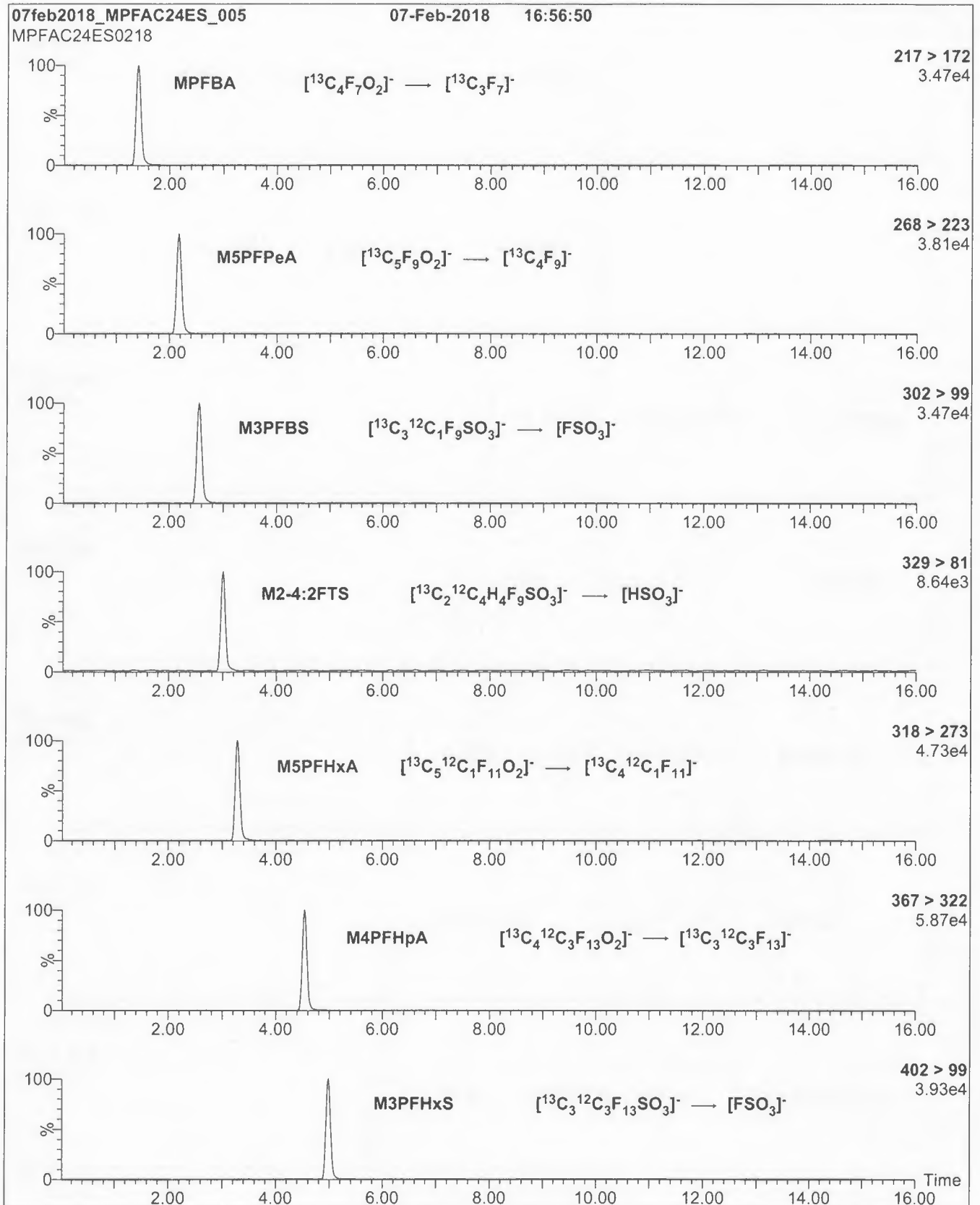
Mobile phase: Gradient  
 Start: 40% (80:20 MeOH:ACN) / 60% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 55% organic over 3.5 min.  
 Ramp to 70% organic over 6.5 min.  
 Ramp to 85% organic over 5 min and hold for  
 1 min before returning to initial conditions in 0.5 min.  
 Time: 17 min

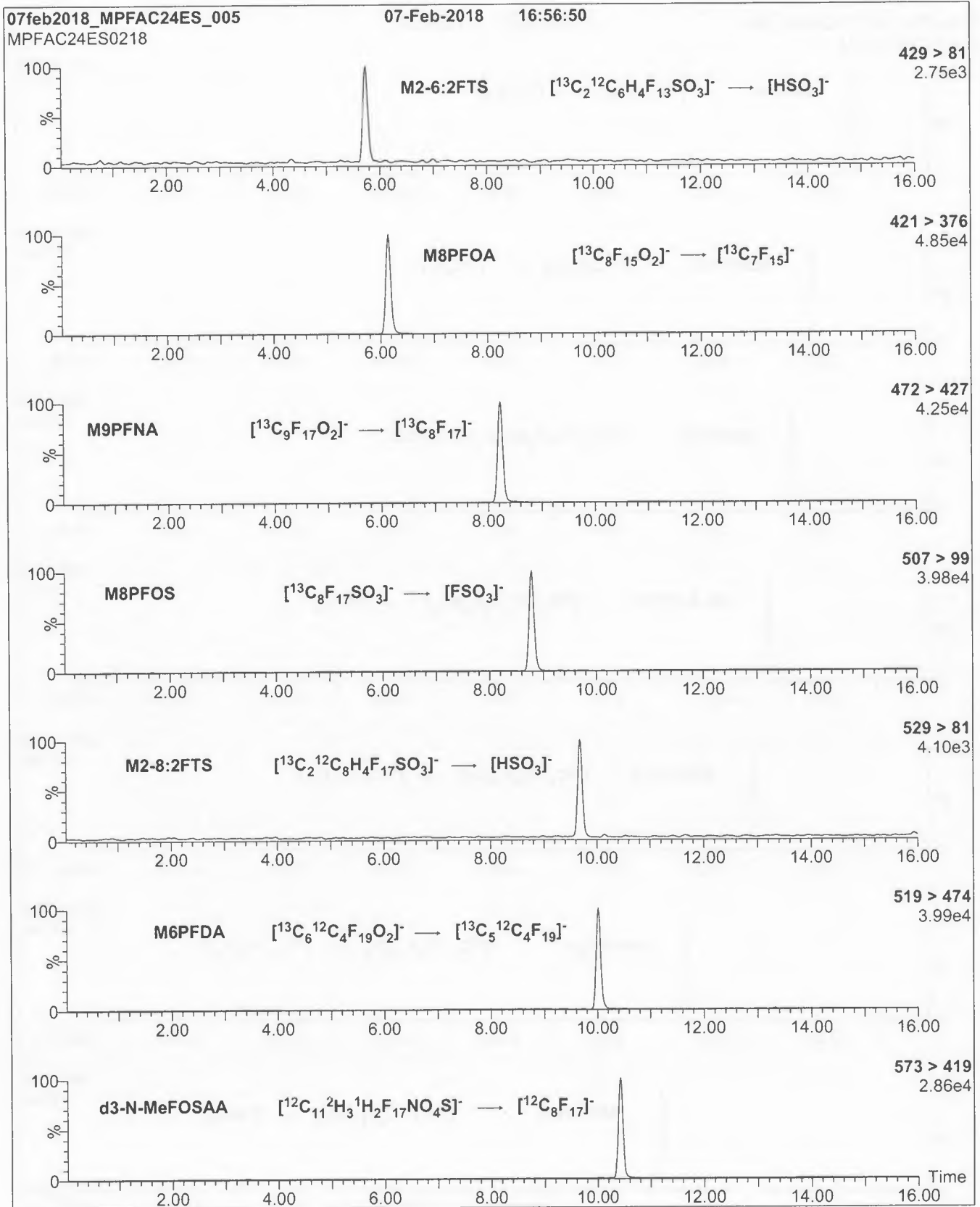
Flow: 300  $\mu$ l/min

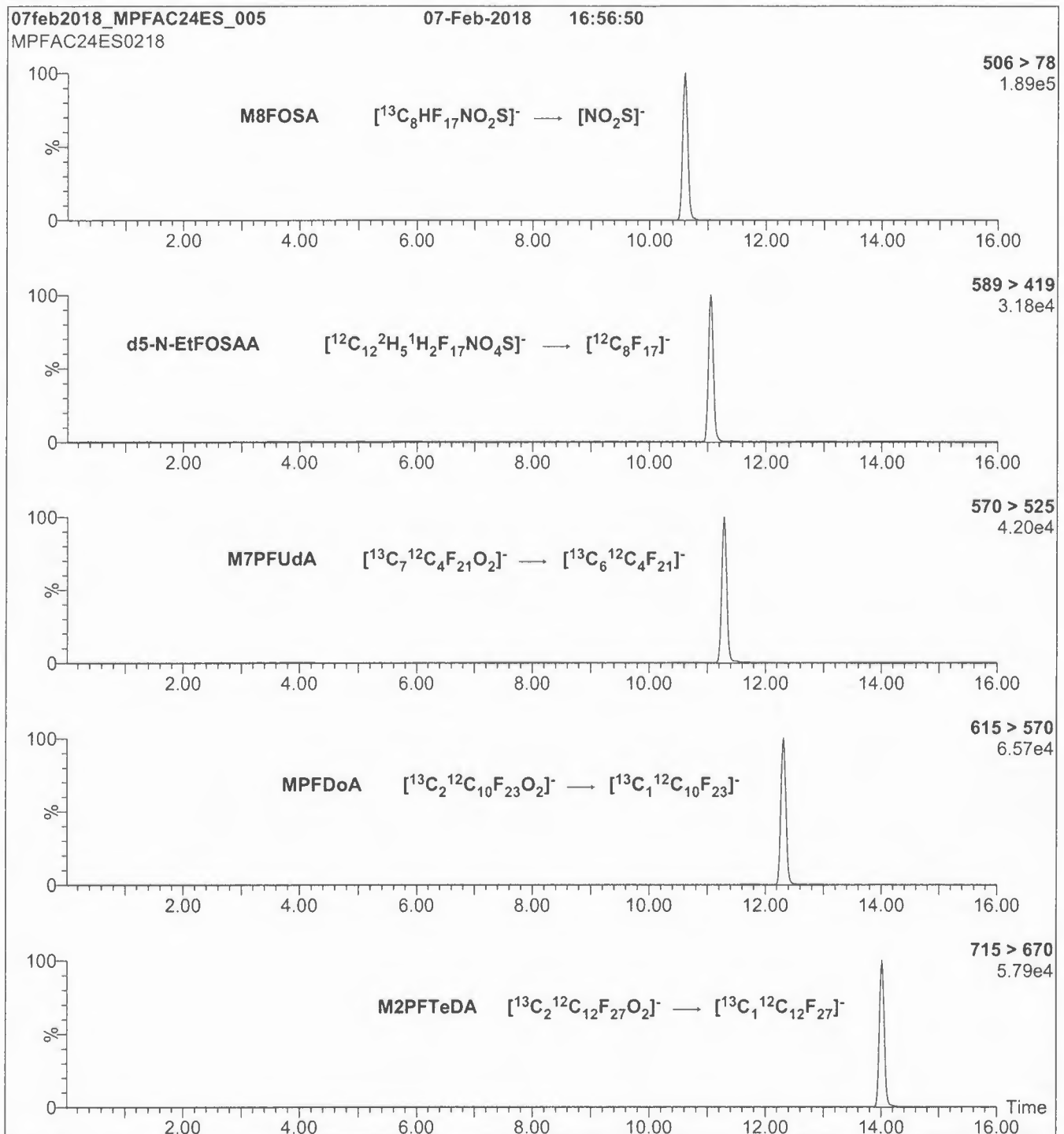
**MS Parameters**

Experiment: SIR

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = variable (10-60)  
 Cone Gas Flow (l/hr) = 100  
 Desolvation Gas Flow (l/hr) = 750

**Figure 2: MPFAC-24ES; LC/MS/MS Data (Selected MRM Transitions)**

**Figure 2: MPFAC-24ES; LC/MS/MS Data (Selected MRM Transitions)**

**Figure 2: MPFAC-24ES; LC/MS/MS Data (Selected MRM Transitions)****Conditions for Figure 2:**

Injection: On-column (MPFAC-24ES)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{l}/\text{min}$ **MS Parameters**

Collision Gas (mbar) = 3.28e-3

Collision Energy (eV) = 8-40 (variable)



It can be done

BDO Id: 181001-01

## Reagent Receipt Report

Approved:  Authorized 

**Name:** PFOA - 2nd source **Received:** 10/1/2018  
**Vendor:** ABSOLUTE STANDARDS **Custodian:** Schumitz, Matt  
**Catalogue No:** 99207 **Expires:** 9/20/2023  
**Type:** Solution **Consumed:** \_\_\_\_\_  
**Lot No:** 092018 **Stored In:** Sample Preparation - F0035  
**Quantity:** 2 ea mL **% Moisture:** \_\_\_\_\_  
**Description:** PFOA - 2nd source

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	414911-30-1	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-butanefulfonate	375-73-5	1.0100	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-hexanesulfonate	355-46-4	1.0100	100.00	--	--	<input type="checkbox"/>			1
Perfluoro-1-octanesulfonamide	754-91-6	1.0000	100.00	--	--	<input type="checkbox"/>			
Perfluoro-1-octanesulfonate	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	1.0100	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-pentanesulfonate	2706-91-4	1.0000	100.00	--	--	<input type="checkbox"/>			2

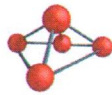
Total Analytes: 24

## Notes:

Analyte:	Comment:
1 Perfluoro-1-hexanesulfonate	17 on C of A
2 Sodium perfluoro-1-pentanesulfonate	16 on C of A

**Approved by:** \_\_\_\_\_ **Approved on:** \_\_\_\_\_  
**Authorized by:** \_\_\_\_\_ **Authorized on:** \_\_\_\_\_





**CERTIFIED WEIGHT REPORT**

**Part Number:** 99207  
**Lot Number:** 092018  
**Description:** PFOA - DOD  
24 components  
**Expiration Date:** 092023  
**Recommended Storage:** Freezer (0 °C)  
**Nominal Concentration (µg/mL):** 1.0  
**NIST Test ID#:** 2684186

**Solvent(s):** Methanol (1 mM KOH) 061918 (98%)  
2-Propanol 23214 (2%)

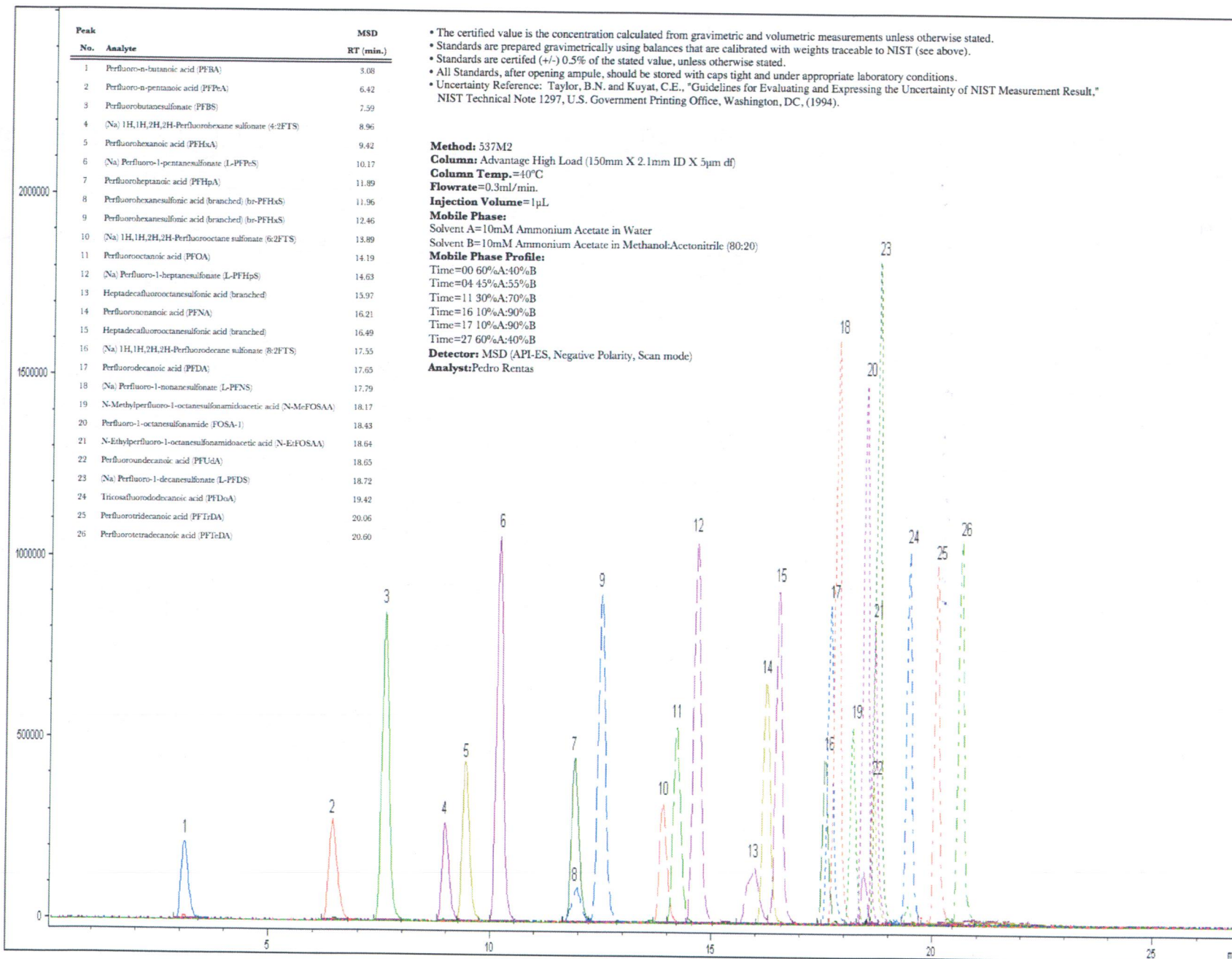
5E-05 Balance Uncertainty  
50.0 0.007 Flask Uncertainty

<i>Eli Aliaga</i>		092018
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		092018
Reviewed By:	Pedro L. Rentas	DATE

Volume(s) shown below were combined and diluted to (mL): 50.0  
**Note: All assigned values are anion concentrations.**

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)	SDS Information (Solvent Safety Info. On Attached pg.)		
									CAS#	OSHA PEL (TWA)	LD50
1. Perfluoro-n-butanoic acid (linear)	99542	110317	0.02	1.00	0.004	50.2	1.00	0.01	375-22-4	N/A	N/A
2. Perfluoro-n-pentanoic acid	99543	110317	0.02	1.00	0.004	50.7	1.01	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	FOSA0618I	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	NMeFOSAA0118	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	NEtFOSAA0118	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-pentanesulfonate	99544	111017	0.02	0.98	0.004	51.3	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	LPFNS0718	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	LPFDS1117	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

181001-01  
2nd Source



# Sample Preparation





It can be done

**BATTELLE - NORWELL OPERATIONS  
SAMPLE PREPARATION RECORDS**

<b><u>Project Title(s)</u></b>	<b><u>Project No.(s)</u></b>
CTO-4164 Naval Base Ventura County, California	100110125-01
<b>18-0588</b>	
<b>CTO-4164: Analysis of Non-Potable Waters</b>	
<b>AQ, GW</b>	
SOP Numbers (see workplan for modifications)	
ExtractionSOP No.	5-370

<b>This Batch Contains The Following Samples:</b>			
CR900PB-FS	J8459-FS	J8477-FS	J8483-FS
CR901LCS-FS	J8460-FS	J8478-FS	
J8455-FS	J8461-FS	J8479-FS	
J8456-FS	J8462-FS	J8480-FS	
J8457-FS	J8463MS-FS	J8481-FS	
J8458-FS	J8464MSD-FS	J8482-FS	

Laboratory Preparation Records  
COMPLETE AND VALIDATED

Prep Task Leader: Stephanie Schultz

Approved By:	Date	Initials
Denise Schumitz	10/24/2018	DMS



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**BATTELLE - NORWELL OPERATIONS  
SAMPLE IDENTIFICATION PAGE**

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

Sample ID	Description
CR900PB-FS	Procedural Blank
CR901LCS-FS	Laboratory Control Sample
J8455-FS	VC-SO-FB07-09262018
J8456-FS	VC-SO-EB07-09262018
J8457-FS	VC-MS09-DW01-0918
J8458-FS	VC-MS09-DW02-0918
J8459-FS	VC-MS09-DW03-0918
J8460-FS	VC-MS09-DW04-0918
J8461-FS	VC-MS09-DW04P-0918
J8462-FS	VC-MS09-DW05-0918
J8463MS-FS	Matrix Spike of VC-MS09-DW05-0918-MS
J8464MSD-FS	Matrix Spike Duplicate of VC-MS09-DW05-0918-MSD
J8477-FS	VC-PM367-DW01-0918
J8478-FS	VC-PM367-DW02-0918
J8479-FS	VC-PM367-DW03-0918
J8480-FS	VC-PM367-DW03P-0918
J8481-FS	VC-PM367-DW04-0918
J8482-FS	VC-AQ-FB08-09272018
J8483-FS	VC-AQ-EB08-09272018

Samples Assigned By:

Jonathan Thorn

Date : September 28, 2018

Comments:



It can be done

**BATTELLE - NORWELL OPERATIONS  
SAMPLE CUSTODY LOG**

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

<b>Requested On/By:</b> 10/05/2018 SAS	<b>Purpose:</b> Sample Preparation
<b>Relinquished On/By:</b> 10/05/2018 MDS	<b>Last Activity:</b> Return
<b>Accepted On/By:</b> 10/05/2018 SAS	<b>Returned On/To:</b> 10/05/2018 MDS
<b>Stored In Facility:</b> Sample Preparation	<b>Returned To Facility:</b> Custody: NA
<b>Stored Until:</b> 10/05/2018	
<b>Stored Comment:</b> NA	<b>Returned Comment:</b> NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	J8455	1	C	Consumed	NA
2	J8456	1	C	Consumed	NA
3	J8457	1	--	Intact	NA
4	J8458	1	--	Intact	NA
5	J8459	1	--	Intact	NA
6	J8460	1	--	Intact	NA
7	J8461	1	--	Intact	NA
8	J8462	1	--	Intact	NA
9	J8477	1	--	Intact	NA
10	J8478	1	--	Intact	NA
11	J8479	1	--	Intact	NA
12	J8480	1	--	Intact	NA
13	J8481	1	--	Intact	NA
14	J8482	1	C	Consumed	NA
15	J8483	1	C	Consumed	NA
<b>Total Samples</b>		15		* "C" = Consumed Container	



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## BATTELLE - NORWELL OPERATIONS LIQUID SAMPLE ID FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Sample ID	Description	Volume (mL)	Bottles	*	Date Initials
CR900PB-FS	Procedural Blank	250.0	NA	--	10/05/18 SAS
CR901LCS-FS	Laboratory Control Sample	250.0	NA	--	10/05/18 SAS
J8455-FS	VC-SO-FB07-09262018	270.0	1	C	10/08/18 SAS
J8456-FS	VC-SO-EB07-09262018	280.0	1	C	10/08/18 SAS
J8457-FS	VC-MS09-DW01-0918	200.0	1	--	10/08/18 SAS
J8458-FS	VC-MS09-DW02-0918	10.0	1	--	10/05/18 SAS
J8459-FS	VC-MS09-DW03-0918	10.0	1	--	10/05/18 SAS
J8460-FS	VC-MS09-DW04-0918	10.0	1	--	10/05/18 SAS
J8461-FS	VC-MS09-DW04P-0918	10.0	1	--	10/05/18 SAS
J8462-FS	VC-MS09-DW05-0918	100.0	1	--	10/08/18 SAS
J8463MS-FS	Matrix Spike	50.0	1	--	10/08/18 SAS
J8464MSD-FS	Matrix Spike Duplicate	50.0	1	--	10/08/18 SAS
J8477-FS	VC-PM367-DW01-0918	200.0	1	--	10/08/18 SAS
J8478-FS	VC-PM367-DW02-0918	100.0	1	--	10/08/18 SAS
J8479-FS	VC-PM367-DW03-0918	10.0	1	--	10/05/18 SAS
J8480-FS	VC-PM367-DW03P-0918	10.0	1	--	10/05/18 SAS
J8481-FS	VC-PM367-DW04-0918	50.0	1	--	10/08/18 SAS
J8482-FS	VC-AQ-FB08-09272018	270.0	1	C	10/08/18 SAS
J8483-FS	VC-AQ-EB08-09272018	290.0	1	C	10/08/18 SAS

Comments:

Samples Assigned By

Jonathan Thorn

Date : September 28, 2018

\* - "C" = Sample is Consumed



It can be done

## BATTELLE - NORWELL OPERATIONS SURROGATE SPIKE FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
CR900PB-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
CR901LCS-FS	JZ88	LCS/MS	1	150	10/05/18 SAS	KB	NA
CR901LCS-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8455-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8456-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8457-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8458-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8459-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8460-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8461-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8462-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8463MS-FS	JZ88	LCS/MS	1	250	10/05/18 SAS	KB	NA
J8463MS-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8464MSD-FS	JZ88	LCS/MS	1	250	10/05/18 SAS	KB	NA
J8464MSD-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8477-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8478-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8479-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8480-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8481-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8482-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA
J8483-FS	KB72	SIS	1	50	10/05/18 SAS	KB	NA



It can be done

**BATTELLE - NORWELL OPERATIONS  
SURROGATE SPIKE FORM**

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
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Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
JZ88	Pipette	B814657482
KB72	Pipette	B814659662



It can be done

## BATTELLE - NORWELL OPERATIONS SAMPLE EXTRACTION FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Conc. ID	Turbo °C	Turbo PSI	KD °C	Comment
CR900PB-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
CR901LCS-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8455-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8456-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8457-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8458-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8459-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8460-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8461-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8462-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8463MS-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8464MSD-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8477-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8478-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8479-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8480-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8481-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8482-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA
J8483-FS	10/05/18 SAS	NA	NA	NA	NA	NA	NA	NA

**Solvents/Reagent Preparations:**

Name	ID	Expires	Lot No	Procedure	Comments
0.4% NH <sub>3</sub> in Methanol	RP-181005-2	10/05/18	SHBJ0412	Per 100 mL, 3.5 mL ammonia solution brought to 100 mL with methanol	
0.4% NH <sub>3</sub> in Methanol	RP-181005-2	10/05/18	178501	Per 100 mL, 3.5 mL ammonia solution brought to 100 mL with methanol	
Pre-packed SPE Column	RP-181005-6	10/06/18	003537250A/ 0035	Pre-packed SPE Column	

**Solvents/Reagents:**



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## BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW****(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
CR900PB-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
CR901LCS-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8455-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8456-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8457-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8457-FS-D(3)	952	48	KC03	50	1	1000	25.000	10/16/18 SAS	EMF
J8457-FS-D(5)	975	25	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8457-FS-D(7)	970	30	KC03	50	1	1000	125.000	10/16/18 SAS	EMF
J8458-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8458-FS-D(3)	952	48	KC03	50	1	1000	25.000	10/16/18 SAS	EMF
J8458-FS-D(5)	975	25	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8459-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8459-FS-D(3)	952	48	KC03	50	1	1000	25.000	10/16/18 SAS	EMF
J8459-FS-D(5)	965	35	KC03	50	1	1000	83.333	10/16/18 SAS	EMF
J8460-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8460-FS-D(3)	952	48	KC03	50	1	1000	25.000	10/16/18 SAS	EMF
J8460-FS-D(5)	970	30	KC03	50	1	1000	62.500	10/16/18 SAS	EMF
J8460-FS-D(7)	953	47	KC03	50	1	1000	1041.667	10/23/18 SAS	KB
J8460-FS-D(9)	960	40	KC52	40	1	1000	312.500	10/23/18 SAS	KB

\* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.





It can be done

## BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW****(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
J8461-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8461-FS-D(3)	952	48	KC03	50	1	1000	25.000	10/16/18 SAS	EMF
J8461-FS-D(5)	970	30	KC03	50	1	1000	62.500	10/16/18 SAS	EMF
J8461-FS-D(7)	960	40	KC03	50	1	1000	312.500	10/19/18 SAS	KB
J8462-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8462-FS-D(3)	952	48	KC03	50	1	1000	25.000	10/16/18 SAS	EMF
J8462-FS-D(5)	970	30	KC03	50	1	1000	62.500	10/16/18 SAS	EMF
J8462-FS-D(7)	955	45	KC03	50	1	1000	625.000	10/19/18 SAS	KB
J8463MS-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8463MS-FS-D(3)	955	45	KC03	50	1	1000	10.000	10/16/18 SAS	EMF
J8463MS-FS-D(5)	960	40	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8464MSD-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8464MSD-FS-D(3)	955	45	KC03	50	1	1000	10.000	10/16/18 SAS	EMF
J8464MSD-FS-D(5)	960	40	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8464MSD-FS-D(7)	960	40	KC03	50	1	1000	250.000	10/19/18 SAS	KB
J8477-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8477-FS-D(3)	955	45	KC03	50	1	1000	10.000	10/16/18 SAS	EMF
J8477-FS-D(5)	960	40	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8477-FS-D(7)	955	45	KC03	50	1	1000	500.000	10/19/18 SAS	KB

\* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

## BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW****(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
J8478-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8478-FS-D(3)	955	45	KC03	50	1	1000	10.000	10/16/18 SAS	EMF
J8478-FS-D(5)	960	40	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8478-FS-D(7)	953	47	KC03	50	1	1000	833.333	10/19/18 SAS	KB
J8479-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8479-FS-D(3)	955	45	KC03	50	1	1000	10.000	10/16/18 SAS	EMF
J8479-FS-D(5)	960	40	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8479-FS-D(7)	955	45	KC03	50	1	1000	500.000	10/19/18 SAS	KB
J8480-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8480-FS-D(3)	955	45	KC03	50	1	1000	10.000	10/16/18 SAS	EMF
J8480-FS-D(5)	960	40	KC03	50	1	1000	50.000	10/16/18 SAS	EMF
J8480-FS-D(7)	955	45	KC03	50	1	1000	500.000	10/19/18 SAS	KB
J8481-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8481-FS-D(3)	960	40	KC03	50	1	1000	5.000	10/16/18 SAS	EMF
J8481-FS-D(5)	960	40	KC03	50	1	1000	25.000	10/16/18 SAS	EMF
J8481-FS-D(7)	955	45	KC03	50	1	1000	250.000	10/19/18 SAS	KB
J8482-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB
J8483-FS(0)	950	50	KC03	50	1	1000	1.000	10/11/18 SAS	KB

\* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

## BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

**(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

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
KB72	Pipette	B814659662
KC03	Pipette	B814659662
KC19	Pipette	B814659662
KC52	Pipette	B814659662

\* - 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)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
J8457-FS-D(3)	25	KB72	SIS	1	48	0	0	10/16/18 SAS	EMF
J8457-FS-D(5)	50	KB72	SIS	1	25	0	0	10/16/18 SAS	EMF
J8457-FS-D(7)	125	KB72	SIS	1	30	0	0	10/16/18 SAS	EMF
J8458-FS-D(3)	25	KB72	SIS	1	48	0	0	10/16/18 SAS	EMF
J8458-FS-D(5)	50	KB72	SIS	1	25	0	0	10/16/18 SAS	EMF
J8459-FS-D(3)	25	KB72	SIS	1	48	0	0	10/16/18 SAS	EMF
J8459-FS-D(5)	83.333	KB72	SIS	1	35	0	0	10/16/18 SAS	EMF
J8460-FS-D(3)	25	KB72	SIS	1	48	0	0	10/16/18 SAS	EMF
J8460-FS-D(5)	62.5	KB72	SIS	1	30	0	0	10/16/18 SAS	EMF
J8460-FS-D(7)	1041.667	KC19	SIS	1	47	0	0	10/19/18 SAS	KB
J8460-FS-D(9)	312.5	KC19	SIS	1	40	0	0	10/23/18 SAS	KB
J8461-FS-D(3)	25	KB72	SIS	1	48	0	0	10/15/18 SAS	EMF
J8461-FS-D(5)	62.5	KB72	SIS	1	30	0	0	10/16/18 SAS	EMF
J8461-FS-D(7)	312.5	KC19	SIS	1	40	0	0	10/19/18 SAS	KB
J8462-FS-D(3)	25	KB72	SIS	1	48	0	0	10/16/18 SAS	EMF
J8462-FS-D(5)	62.5	KB72	SIS	1	30	0	0	10/16/18 SAS	EMF
J8462-FS-D(7)	625	KC19	SIS	1	45	0	0	10/19/18 SAS	KB
J8463MS-FS-D(3)	10	KB72	SIS	1	45	0	0	10/16/18 SAS	EMF
J8463MS-FS-D(5)	50	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8464MSD-FS-D(3)	10	KB72	SIS	1	45	0	0	10/16/18 SAS	EMF
J8464MSD-FS-D(5)	50	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8464MSD-FS-D(7)	250	KC19	SIS	1	40	0	0	10/19/18 SAS	KB
J8477-FS-D(3)	10	KB72	SIS	1	45	0	0	10/16/18 SAS	EMF
J8477-FS-D(5)	50	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8477-FS-D(7)	500	KC19	SIS	1	45	0	0	10/19/18 SAS	KB



It can be done

## BATTELLE - NORWELL OPERATIONS EXTRACT SPIKE FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	Witn'd By
J8478-FS-D(3)	10	KB72	SIS	1	45	0	0	10/16/18 SAS	EMF
J8478-FS-D(5)	50	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8478-FS-D(7)	833.333	KC19	SIS	1	47	0	0	10/19/18 SAS	KB
J8479-FS-D(3)	10	KB72	SIS	1	45	0	0	10/16/18 SAS	EMF
J8479-FS-D(5)	50	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8479-FS-D(7)	500	KC19	SIS	1	45	0	0	10/19/18 SAS	KB
J8480-FS-D(3)	10	KB72	SIS	1	45	0	0	10/16/18 SAS	EMF
J8480-FS-D(5)	50	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8480-FS-D(7)	500	KC19	SIS	1	45	0	0	10/19/18 SAS	KB
J8481-FS-D(3)	5	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8481-FS-D(5)	25	KB72	SIS	1	40	0	0	10/16/18 SAS	EMF
J8481-FS-D(7)	250	KC19	SIS	1	45	0	0	10/19/18 SAS	KB

## Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
KB72	Pipette	B814659662
KC03	Pipette	B814659662
KC19	Pipette	B814659662
KC52	Pipette	B814659662



It can be done

## BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
CR900PB-FS	0	--	10/5/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
CR901LCS-FS	0	--	10/5/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8455-FS	0	--	10/5/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8456-FS	0	--	10/5/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8457-FS	0	C	10/5/2018 3:27:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8457-FS	2	--	10/15/2018 1:40:00 PM	J8457-FS	0	1000	960	1.042	1.042	10/15/18 SAS
J8457-FS-D	3	C	10/15/2018 1:40:00 PM	J8457-FS	0	1000	40	25.000	25.000	10/15/18 SAS
J8457-FS-D	4	--	10/15/2018 1:45:00 PM	J8457-FS-D	3	1000	500	2.000	50.000	10/15/18 SAS
J8457-FS-D	5	C	10/15/2018 1:45:00 PM	J8457-FS-D	3	1000	500	2.000	50.000	10/15/18 SAS
J8457-FS-D	6	--	10/15/2018 1:46:00 PM	J8457-FS-D	5	1000	600	1.667	83.333	10/15/18 SAS
J8457-FS-D	7	--	10/15/2018 1:46:00 PM	J8457-FS-D	5	1000	400	2.500	125.000	10/15/18 SAS
J8458-FS	0	C	10/5/2018 5:28:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8458-FS	2	--	10/15/2018 1:47:00 PM	J8458-FS	0	1000	960	1.042	1.042	10/15/18 SAS
J8458-FS-D	3	C	10/15/2018 1:47:00 PM	J8458-FS	0	1000	40	25.000	25.000	10/15/18 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)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J8458-FS-D	4	--	10/15/2018 1:48:00 PM	J8458-FS-D	3	1000	500	2.000	50.000	10/15/18 SAS
J8458-FS-D	5	--	10/15/2018 1:48:00 PM	J8458-FS-D	3	1000	500	2.000	50.000	10/15/18 SAS
J8459-FS	0	C	10/5/2018 5:28:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8459-FS	2	--	10/15/2018 1:50:00 PM	J8459-FS	0	1000	960	1.042	1.042	10/15/18 SAS
J8459-FS-D	3	C	10/15/2018 1:50:00 PM	J8459-FS	0	1000	40	25.000	25.000	10/15/18 SAS
J8459-FS-D	4	--	10/15/2018 1:51:00 PM	J8459-FS-D	3	1000	700	1.429	35.714	10/15/18 SAS
J8459-FS-D	5	--	10/15/2018 1:51:00 PM	J8459-FS-D	3	1000	300	3.333	83.333	10/15/18 SAS
J8460-FS	0	C	10/5/2018 5:28:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8460-FS	2	--	10/15/2018 1:52:00 PM	J8460-FS	0	1000	960	1.042	1.042	10/15/18 SAS
J8460-FS-D	3	C	10/15/2018 1:52:00 PM	J8460-FS	0	1000	40	25.000	25.000	10/15/18 SAS
J8460-FS-D	4	--	10/15/2018 1:54:00 PM	J8460-FS-D	3	1000	600	1.667	41.667	10/15/18 SAS
J8460-FS-D	5	C	10/15/2018 1:54:00 PM	J8460-FS-D	3	1000	400	2.500	62.500	10/15/18 SAS
J8460-FS-D	6	C	10/19/2018 1:57:00 PM	J8460-FS-D	5	1000	940	1.064	66.489	10/19/18 SAS
J8460-FS-D	7	--	10/19/2018 1:57:00 PM	J8460-FS-D	5	1000	60	16.667	1041.667	10/19/18 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)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J8460-FS-D	8	--	10/23/2018 11:09:00 AM	J8460-FS-D	6	940	740	1.270	84.459	10/23/18 SAS
J8460-FS-D	9	--	10/23/2018 11:09:00 AM	J8460-FS-D	6	940	200	4.700	312.500	10/23/18 SAS
J8461-FS	0	C	10/5/2018 5:28:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8461-FS	2	--	10/15/2018	J8461-FS	0	1000	960	1.042	1.042	10/15/18 SAS
J8461-FS-D	3	C	10/15/2018	J8461-FS	0	1000	40	25.000	25.000	10/15/18 SAS
J8461-FS-D	4	--	10/15/2018 1:56:00 PM	J8461-FS-D	3	1000	600	1.667	41.667	10/15/18 SAS
J8461-FS-D	5	C	10/15/2018 1:56:00 PM	J8461-FS-D	3	1000	400	2.500	62.500	10/15/18 SAS
J8461-FS-D	6	--	10/19/2018 2:01:00 PM	J8461-FS-D	5	1000	800	1.250	78.125	10/19/18 SAS
J8461-FS-D	7	--	10/19/2018 2:01:00 PM	J8461-FS-D	5	1000	200	5.000	312.500	10/19/18 SAS
J8462-FS	0	C	10/5/2018 3:27:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8462-FS	2	--	10/15/2018 1:57:00 PM	J8462-FS	0	1000	960	1.042	1.042	10/15/18 SAS
J8462-FS-D	3	C	10/15/2018 1:57:00 PM	J8462-FS	0	1000	40	25.000	25.000	10/15/18 SAS
J8462-FS-D	4	--	10/15/2018 1:58:00 PM	J8462-FS-D	3	1000	600	1.667	41.667	10/15/18 SAS
J8462-FS-D	5	C	10/15/2018 1:58:00 PM	J8462-FS-D	3	1000	400	2.500	62.500	10/15/18 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)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J8462-FS-D	6	--	10/19/2018 2:02:00 PM	J8462-FS-D	5	1000	900	1.111	69.444	10/19/18 SAS
J8462-FS-D	7	--	10/19/2018 2:02:00 PM	J8462-FS-D	5	1000	100	10.000	625.000	10/19/18 SAS
J8463MS-FS	0	C	10/5/2018 3:27:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8463MS-FS	2	--	10/15/2018 2:00:00 PM	J8463MS-FS	0	1000	900	1.111	1.111	10/15/18 SAS
J8463MS-FS-D	3	C	10/15/2018 2:00:00 PM	J8463MS-FS	0	1000	100	10.000	10.000	10/15/18 SAS
J8463MS-FS-D	4	--	10/15/2018 2:01:00 PM	J8463MS-FS-D	3	1000	800	1.250	12.500	10/15/18 SAS
J8463MS-FS-D	5	--	10/15/2018 2:01:00 PM	J8463MS-FS-D	3	1000	200	5.000	50.000	10/15/18 SAS
J8464MSD-FS	0	C	10/5/2018 3:27:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8464MSD-FS	2	--	10/15/2018 2:03:00 PM	J8464MSD-FS	0	1000	900	1.111	1.111	10/15/18 SAS
J8464MSD-FS-D	3	C	10/15/2018 2:03:00 PM	J8464MSD-FS	0	1000	100	10.000	10.000	10/15/18 SAS
J8464MSD-FS-D	4	--	10/15/2018 2:04:00 PM	J8464MSD-FS-D	3	1000	800	1.250	12.500	10/15/18 SAS
J8464MSD-FS-D	5	C	10/15/2018 2:04:00 PM	J8464MSD-FS-D	3	1000	200	5.000	50.000	10/15/18 SAS
J8464MSD-FS-D	6	--	10/19/2018 2:06:00 PM	J8464MSD-FS-D	5	1000	800	1.250	62.500	10/19/18 SAS
J8464MSD-FS-D	7	--	10/19/2018 2:06:00 PM	J8464MSD-FS-D	5	1000	200	5.000	250.000	10/19/18 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)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J8477-FS	0	C	10/5/2018 3:27:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8477-FS	2	--	10/15/2018 2:05:00 PM	J8477-FS	0	1000	900	1.111	1.111	10/15/18 SAS
J8477-FS-D	3	C	10/15/2018 2:05:00 PM	J8477-FS	0	1000	100	10.000	10.000	10/15/18 SAS
J8477-FS-D	4	--	10/15/2018 2:07:00 PM	J8477-FS-D	3	1000	800	1.250	12.500	10/15/18 SAS
J8477-FS-D	5	C	10/15/2018 2:07:00 PM	J8477-FS-D	3	1000	200	5.000	50.000	10/15/18 SAS
J8477-FS-D	6	--	10/19/2018 2:08:00 PM	J8477-FS-D	5	1000	900	1.111	55.556	10/19/18 SAS
J8477-FS-D	7	--	10/19/2018 2:08:00 PM	J8477-FS-D	5	1000	100	10.000	500.000	10/19/18 SAS
J8478-FS	0	C	10/5/2018 3:27:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8478-FS	2	--	10/15/2018 2:09:00 PM	J8478-FS	0	1000	900	1.111	1.111	10/15/18 SAS
J8478-FS-D	3	C	10/15/2018 2:09:00 PM	J8478-FS	0	1000	100	10.000	10.000	10/15/18 SAS
J8478-FS-D	4	--	10/15/2018 2:10:00 PM	J8478-FS-D	3	1000	800	1.250	12.500	10/15/18 SAS
J8478-FS-D	5	C	10/15/2018 2:10:00 PM	J8478-FS-D	3	1000	200	5.000	50.000	10/15/18 SAS
J8478-FS-D	6	--	10/19/2018 2:09:00 PM	J8478-FS-D	5	1000	940	1.064	53.191	10/19/18 SAS
J8478-FS-D	7	--	10/19/2018 2:09:00 PM	J8478-FS-D	5	1000	60	16.667	833.333	10/19/18 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)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J8479-FS	0	C	10/5/2018 5:28:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8479-FS	2	--	10/15/2018 2:12:00 PM	J8479-FS	0	1000	900	1.111	1.111	10/15/18 SAS
J8479-FS-D	3	C	10/15/2018 2:12:00 PM	J8479-FS	0	1000	100	10.000	10.000	10/15/18 SAS
J8479-FS-D	4	--	10/15/2018 2:13:00 PM	J8479-FS-D	3	1000	800	1.250	12.500	10/15/18 SAS
J8479-FS-D	5	C	10/15/2018 2:13:00 PM	J8479-FS-D	3	1000	200	5.000	50.000	10/15/18 SAS
J8479-FS-D	6	--	10/19/2018 2:11:00 PM	J8479-FS-D	5	1000	900	1.111	55.556	10/19/18 SAS
J8479-FS-D	7	--	10/19/2018 2:11:00 PM	J8479-FS-D	5	1000	100	10.000	500.000	10/19/18 SAS
J8480-FS	0	C	10/5/2018 5:28:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8480-FS	2	--	10/15/2018 2:14:00 PM	J8480-FS	0	1000	900	1.111	1.111	10/15/18 SAS
J8480-FS-D	3	C	10/15/2018 2:14:00 PM	J8480-FS	0	1000	100	10.000	10.000	10/15/18 SAS
J8480-FS-D	4	--	10/15/2018 2:16:00 PM	J8480-FS-D	3	1000	800	1.250	12.500	10/15/18 SAS
J8480-FS-D	5	C	10/15/2018 2:16:00 PM	J8480-FS-D	3	1000	200	5.000	50.000	10/15/18 SAS
J8480-FS-D	6	--	10/19/2018 2:11:00 PM	J8480-FS-D	5	1000	900	1.111	55.556	10/19/18 SAS
J8480-FS-D	7	--	10/19/2018 2:11:00 PM	J8480-FS-D	5	1000	100	10.000	500.000	10/19/18 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)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J8481-FS	0	C	10/5/2018 3:27:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8481-FS	2	--	10/15/2018 2:17:00 PM	J8481-FS	0	1000	800	1.250	1.250	10/15/18 SAS
J8481-FS-D	3	C	10/15/2018 2:17:00 PM	J8481-FS	0	1000	200	5.000	5.000	10/15/18 SAS
J8481-FS-D	4	--	10/15/2018 2:18:00 PM	J8481-FS-D	3	1000	800	1.250	6.250	10/15/18 SAS
J8481-FS-D	5	C	10/15/2018 2:18:00 PM	J8481-FS-D	3	1000	200	5.000	25.000	10/15/18 SAS
J8481-FS-D	6	--	10/19/2018 2:11:00 PM	J8481-FS-D	5	1000	900	1.111	27.778	10/19/18 SAS
J8481-FS-D	7	--	10/19/2018 2:11:00 PM	J8481-FS-D	5	1000	100	10.000	250.000	10/19/18 SAS
J8482-FS	0	--	10/5/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	10/05/18 SAS
J8483-FS	0	--	10/5/2018 2:59:00 PM	NA		NA	NA	1.000	1.000	10/05/18 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 EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

<b>Purpose:</b>	LC-MS/MS TRANSFER	<b>Last Activity:</b>	Prep->Inst
<b>Relinquished On/By:</b>	Oct 17 2018 4:40PM SAS	<b>Received On/By:</b>	Oct 17 2018 5:37PM DMS
<b>Relinquished From:</b>	Sample Preparation: NA	<b>Received Location:</b>	LC Laboratory: NA
<b>Relinquish Comment:</b>	NA	<b>Received Comment:</b>	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CR900PB-FS(0)	1000	1	Intact	NA
2	CR901LCS-FS(0)	1000	1	Intact	NA
3	J8455-FS(0)	1000	1	Intact	NA
4	J8456-FS(0)	1000	1	Intact	NA
5	J8457-FS(0)	1000	1	Intact	NA
6	J8457-FS-D(3)	1000	25	Intact	NA
7	J8457-FS-D(5)	1000	50	Intact	NA
8	J8457-FS-D(7)	1000	125	Intact	NA
9	J8458-FS(0)	1000	1	Intact	NA
10	J8458-FS-D(3)	1000	25	Intact	NA
11	J8458-FS-D(5)	1000	50	Intact	NA
12	J8459-FS(0)	1000	1	Intact	NA
13	J8459-FS-D(3)	1000	25	Intact	NA
14	J8459-FS-D(5)	1000	83.333	Intact	NA
15	J8460-FS(0)	1000	1	Intact	NA
16	J8460-FS-D(3)	1000	25	Intact	NA
17	J8460-FS-D(5)	1000	62.5	Intact	NA
18	J8461-FS(0)	1000	1	Intact	NA
19	J8461-FS-D(3)	1000	25	Intact	NA
20	J8461-FS-D(5)	1000	62.5	Intact	NA
21	J8462-FS(0)	1000	1	Intact	NA
22	J8462-FS-D(3)	1000	25	Intact	NA
23	J8462-FS-D(5)	1000	62.5	Intact	NA
24	J8463MS-FS(0)	1000	1	Intact	NA
25	J8463MS-FS-D(3)	1000	10	Intact	NA
26	J8463MS-FS-D(5)	1000	50	Intact	NA
27	J8464MSD-FS(0)	1000	1	Intact	NA
28	J8464MSD-FS-D(3)	1000	10	Intact	NA



It can be done

**BATTELLE - NORWELL OPERATIONS  
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE**

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

29	J8464MSD-FS-D(5)	1000	50	Intact	NA
30	J8477-FS(0)	1000	1	Intact	NA
31	J8477-FS-D(3)	1000	10	Intact	NA
32	J8477-FS-D(5)	1000	50	Intact	NA
33	J8478-FS(0)	1000	1	Intact	NA
34	J8478-FS-D(3)	1000	10	Intact	NA
35	J8478-FS-D(5)	1000	50	Intact	NA
36	J8479-FS(0)	1000	1	Intact	NA
37	J8479-FS-D(3)	1000	10	Intact	NA
38	J8479-FS-D(5)	1000	50	Intact	NA
39	J8480-FS(0)	1000	1	Intact	NA
40	J8480-FS-D(3)	1000	10	Intact	NA
41	J8480-FS-D(5)	1000	50	Intact	NA
42	J8481-FS(0)	1000	1	Intact	NA
43	J8481-FS-D(3)	1000	5	Intact	NA
44	J8481-FS-D(5)	1000	25	Intact	NA
45	J8482-FS(0)	1000	1	Intact	NA
46	J8483-FS(0)	1000	1	Intact	NA

**Total Extracts:** 46



It can be done

## BATTELLE - NORWELL OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588****CTO-4164: Analysis of Non-Potable Waters****AQ, GW**

<b>Purpose:</b> LC-MS/MS TRANSFER		<b>Last Activity:</b> Prep->Inst			
<b>Relinquished On/By:</b> Oct 19 2018 5:00PM SAS		<b>Received On/By:</b> Oct 19 2018 5:38PM DMS			
<b>Relinquished From:</b> Sample Preparation: NA		<b>Received Location:</b> LC Laboratory: NA			
<b>Relinquish Comment:</b> NA		<b>Received Comment:</b> NA			
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	J8460-FS-D(7)	1000	1041.667	Intact	NA
2	J8461-FS-D(7)	1000	312.5	Intact	NA
3	J8462-FS-D(7)	1000	625	Intact	NA
4	J8464MSD-FS-D(7)	1000	250	Intact	NA
5	J8477-FS-D(7)	1000	500	Intact	NA
6	J8478-FS-D(7)	1000	833.333	Intact	NA
7	J8479-FS-D(7)	1000	500	Intact	NA
8	J8480-FS-D(7)	1000	500	Intact	NA
9	J8481-FS-D(7)	1000	250	Intact	NA
<b>Total Extracts:</b>		9			
<b>Purpose:</b> LC-MS/MS TRANSFER		<b>Last Activity:</b> Prep->Inst			
<b>Relinquished On/By:</b> Oct 23 2018 5:40PM DMS		<b>Received On/By:</b> Oct 23 2018 5:40PM DMS			
<b>Relinquished From:</b> Sample Preparation: NA		<b>Received Location:</b> LC Laboratory: NA			
<b>Relinquish Comment:</b> NA		<b>Received Comment:</b> NA			
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	J8460-FS-D(9)	1000	312.5	Intact	NA
<b>Total Extracts:</b>		1			



It can be done

**BATTELLE - NORWELL OPERATIONS  
SAMPLE SPECIFIC COMMENTS**

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

Sample ID:	Comment:	Date/Initials:
CR900PB-FS	Extraction started 2:59pm, extraction block 3, ended at 4:19pm	10/05/18 SAS
CR901LCS-FS	Extraction started 2:59pm, extraction block 3, ended at 4:18pm	10/05/18 SAS
J8455-FS	Extraction started 2:59pm, extraction block 3, ended at 4:05pm	10/05/18 SAS
J8456-FS	Extraction started 2:59pm, extraction block 3, ended at 4:18pm	10/05/18 SAS
J8457-FS	Extraction started 3:27pm, extraction block 2, ended at 4:11pm	10/05/18 SAS
J8458-FS	Extraction started 5:28pm, extraction block 2, ended at 5:35pm	10/05/18 SAS
J8459-FS	Extraction started 5:28pm, extraction block 2, ended at 5:35pm	10/05/18 SAS
J8460-FS	Extraction started 5:28pm, extraction block 2, ended at 5:35pm	10/05/18 SAS
J8461-FS	Extraction started 5:28pm, extraction block 2, ended at 5:35pm	10/05/18 SAS
J8462-FS	Extraction started 3:27pm, extraction block 2, ended at 3:56pm	10/05/18 SAS
J8463MS-FS	Extraction started 3:27pm, extraction block 2, ended at 3:47pm	10/05/18 SAS
J8464MSD-FS	Extraction started 3:27pm, extraction block 2, ended at 3:45pm	10/05/18 SAS
J8477-FS	Extraction started 3:27pm, extraction block 2, ended at 4:24pm	10/05/18 SAS
J8478-FS	Extraction started 3:27pm, extraction block 2, ended at 4:05pm	10/05/18 SAS
J8479-FS	Extraction started 5:28pm, extraction block 2, ended at 5:35pm	10/05/18 SAS
J8480-FS	Extraction started 5:28pm, extraction block 2, ended at 5:36pm	10/05/18 SAS
J8481-FS	Extraction started 3:27pm, extraction block 2, ended at 3:44pm	10/05/18 SAS
J8482-FS	Extraction started 2:59pm, extraction block 3, ended at 4:15pm	10/05/18 SAS
J8483-FS	Extraction started 2:59pm, extraction block 3, ended at 4:30pm	10/05/18 SAS





**It can be done**

**BATTELLE - NORWELL OPERATIONS  
MISCELLANEOUS DOCUMENTATION FORM**

**Project Title(s)**

CTO-4164 Naval Base Ventura County, California

**Project No.(s)**

100110125-01

**18-0588**

**CTO-4164: Analysis of Non-Potable Waters**

**AQ, GW**

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Entered By:

On:

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Task Leader Approval:

On:

Supervisor Approval:

On:

PM Approval:

On:

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# Analytical Calibrations

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
1	MeOH		10/17/2018 7:36:00 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
2	KB73	L1	10/17/2018 7:46:52 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
3	KB74	L2	10/17/2018 7:57:45 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
4	KB75	L3	10/17/2018 8:08:39 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
5	KB76	L4	10/17/2018 8:19:32 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
6	KB77	L5	10/17/2018 8:30:23 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
7	KB78	L6	10/17/2018 8:41:14 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
8	KB79	L7	10/17/2018 8:52:06 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
9	KB80 IB	Instrument Blank	10/17/2018 9:02:57 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
10	KB81 ICC	ICC	10/17/2018 9:13:49 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
11	KB89 Branch	Branch Standard	10/17/2018 9:24:41 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
1	MeOH		10/17/2018 9:35:33 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
12	CR904PB-FS(3)	Procedural Blank	10/17/2018 9:46:25 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
13	CR905LCS-FS(3)	Laboratory Control Sample	10/17/2018 9:57:17 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
14	J8465-FS(3)	VC-PM367-SS01-000H	10/17/2018 10:08:09 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
15	J8466-FS(3)	VC-PM367-SB01-0102	10/17/2018 10:19:02 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
16	J8467-FS(3)	VC-PM367-SB01-0506	10/17/2018 10:29:52 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
17	J8468-FS(3)	VC-PM367-SS02-000H	10/17/2018 10:40:44 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
18	J8469-FS(3)	VC-PM367-SB02-0102	10/17/2018 10:51:34 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
19	J8470-FS(3)	VC-PM367-SB02-0506	10/17/2018 11:02:25 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
20	J8471-FS(3)	VC-PM367-S03-000H	10/17/2018 11:13:17 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
21	J8472-FS(3)	VC-PM367-SB03-0102	10/17/2018 11:24:10 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
22	KB77 CCV	CCV	10/17/2018 11:35:03 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
23	MeOH		10/17/2018 11:45:54 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
24	J8473-FS(3)	VC-PM367-SB03-0506	10/17/2018 11:56:46 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
25	K8474-FS(3)	VC-PM367-SS04-000H	10/18/2018 12:07:38 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
26	J8475-FS(3)	VC-PM367-SB04-	10/18/2018 12:18:30	5-0369.dam	Data18-0590_18-

(1)

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
		0102	AM		01588_18-0589.wiff
27	J8476-FS(3)	VC-PM367-SB04-0506	10/18/2018 12:29:22 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
28	J8337-FS-D(13)	VC-PM324-DW02-0918	10/18/2018 12:40:14 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
29	KB76 CCV	CCV	10/18/2018 12:51:06 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
30	MeOH		10/18/2018 1:01:58 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
31	CR900PB-FS(0)	Procedural Blank	10/18/2018 1:12:51 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
32	CR901LCS-FS(0)	Laboratory Control Sample	10/18/2018 1:23:44 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
33	J8455-FS(0)	VC-SO-FB07-09262018	10/18/2018 1:34:36 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
34	J8456-FS(0)	VC-SO-EB07-09262018	10/18/2018 1:45:28 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
35	J8457-FS(0)	VC-MS09-DW01-0918	10/18/2018 1:56:20 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
36	J8457-FS-D(3)	VC-MS09-DW01-0918	10/18/2018 2:07:11 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
37	J8457-FS-D(5)	VC-MS09-DW01-0918	10/18/2018 2:18:02 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
38	J8457-FS-D(7)	VC-MS09-DW01-0918	10/18/2018 2:28:56 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
39	KB77 CCV	CCV	10/18/2018 2:39:48 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
40	MeOH		10/18/2018 2:50:41 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
41	J8458-FS(0)	VC-MS09-DW02-0918	10/18/2018 3:01:33 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
42	J8458-FS-D(3)	VC-MS09-DW02-0918	10/18/2018 3:12:26 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
43	J8458-FS-D(5)	VC-MS09-DW02-0918	10/18/2018 3:23:17 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
44	J8459-FS(0)	VC-MS09-DW03-0918	10/18/2018 3:34:08 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
45	J8459-FS-D(3)	VC-MS09-DW03-0918	10/18/2018 3:44:59 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
46	J8459-FS-D(5)	VC-MS09-DW03-0918	10/18/2018 3:55:51 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
47	J8460-FS(0)	VC-MS09-DW04-0918	10/18/2018 4:06:44 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
48	J8460-FS-D(3)	VC-MS09-DW04-0918	10/18/2018 4:17:36 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
49	J8460-FS-D(5)	VC-MS09-DW04-0918	10/18/2018 4:28:28 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
50	KB76 CCV	CCV	10/18/2018 4:39:20 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
51	MeOH		10/18/2018 4:50:12 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
52	J8461-FS(0)	VC-MS09-DW04P-0918	10/18/2018 5:01:04 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff

(1)

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
53	J8461-FS-D(3)	VC-MS09-DW04P-0918	10/18/2018 5:11:56 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
54	J8461-FS-D(5)	VC-MS09-DW04P-0918	10/18/2018 5:22:47 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
1	J8462-FS(0)	VC-MS09-DW05-0918	10/18/2018 5:33:39 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
2	J8462-FS-D(3)	VC-MS09-DW05-0918	10/18/2018 5:44:32 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
3	J8462-FS-D(5)	VC-MS09-DW05-0918	10/18/2018 5:55:26 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
4	J8463MS-FS(0)	VC-MS09-DW05-0918-MS	10/18/2018 6:06:18 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
5	J8463MS-FS-D(3)	VC-MS09-DW05-0918-MS	10/18/2018 6:17:11 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
6	J8463MS-FS-D(5)	VC-MS09-DW05-0918-MS	10/18/2018 6:28:05 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
7	KB77 CCV	CCV	10/18/2018 6:38:59 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
8	MeOH		10/18/2018 6:49:52 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
9	J8464MSD-FS(0)	VC-MS09-DW05-0918-MSD	10/18/2018 7:00:44 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
10	J8464MSD-FS-D(3)	VC-MS09-DW05-0918-MSD	10/18/2018 7:11:37 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
11	J8464MSD-FS-D(5)	VC-MS09-DW05-0918-MSD	10/18/2018 7:22:30 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
12	J8477-FS(0)	VC-PM367-DW01-0918	10/18/2018 7:33:23 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
13	J8477-FS-D(3)	VC-PM367-DW01-0918	10/18/2018 7:44:17 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
14	J8477-FS-D(5)	VC-PM367-DW01-0918	10/18/2018 7:55:10 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
15	J8478-FS(0)	VC-PM367-DW02-0918	10/18/2018 8:06:03 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
16	J8478-FS-D(3)	VC-PM367-DW02-0918	10/18/2018 8:16:56 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
17	J8478-FS-D(5)	VC-PM367-DW02-0918	10/18/2018 8:27:49 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
18	KB76 CCV	CCV	10/18/2018 8:38:41 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
19	MeOH		10/18/2018 8:49:32 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
20	J8479-FS(0)	VC-PM367-DW03-0918	10/18/2018 9:00:25 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
21	J8479-FS-D(3)	VC-PM367-DW03-0918	10/18/2018 9:11:19 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
22	J8479-FS-D(5)	VC-PM367-DW03-0918	10/18/2018 9:22:14 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
23	J8480-FS(0)	VC-PM367-DW03P-0918	10/18/2018 9:33:08 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
24	J8480-FS-D(3)	VC-PM367-DW03P-0918	10/18/2018 9:44:00 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
25	J8480-FS-D(5)	VC-PM367-DW03P-	10/18/2018 9:54:54	5-0369.dam	Data18-0590_18-

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
		0918	AM		01588_18-0589.wiff
26	J8481-FS(0)	VC-PM367-DW04-0918	10/18/2018 10:05:48 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
27	J8481-FS-D(3)	VC-PM367-DW04-0918	10/18/2018 10:16:41 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
28	J8481-FS-D(5)	VC-PM367-DW04-0918	10/18/2018 10:27:34 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
29	KB77 CCV	CCV	10/18/2018 10:38:28 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
30	MeOH		10/18/2018 10:49:21 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
31	J8482-FS(0)	VC-AQ-FB08-09272018	10/18/2018 11:00:14 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
32	J8483-FS(0)	VC-AQ-EB08-09272018	10/18/2018 11:11:06 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
33	KB76 CCV	CCV	10/18/2018 11:22:00 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
<del>34</del>	<del>MeOH</del>		<del>10/18/2018 11:32:53 AM</del>	<del>5-0369.dam</del>	<del>Data18-0590_18-01588_18-0589.wiff</del>
35	CR902PB-FS(3)	Procedural Blank	10/18/2018 11:43:47 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
36	CR903LCS-FS(3)	Laboratory Control Sample	10/18/2018 11:54:39 AM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
37	J8438-FS(3)	VC-MS09-SS01-000H	10/18/2018 12:05:31 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
38	J8438-FS-D(5)	VC-MS09-SS01-000H	10/18/2018 12:16:25 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
39	J8439-FS(3)	VC-MS09-SB01-0102	10/18/2018 12:27:18 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
40	J8439-FS-D(5)	VC-MS09-SB01-0102	10/18/2018 12:38:11 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
41	J8440-FS(3)	VC-MS09-SB01-0506	10/18/2018 12:49:05 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
42	J8440-FS-D(5)	VC-MS09-SB01-0506	10/18/2018 12:59:57 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
43	KB77 CCV	CCV	10/18/2018 1:10:49 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
44	MeOH		10/18/2018 1:21:42 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
45	J8441-FS(3)	VC-MS09-SS02-000H	10/18/2018 1:32:35 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
46	J8441-FS-D(5)	VC-MS09-SS02-000H	10/18/2018 1:43:28 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
47	J8441-FS-D(7)	VC-MS09-SS02-000H	10/18/2018 1:54:21 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
48	J8441-FS-D(9)	VC-MS09-SS02-000H	10/18/2018 2:05:14 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
30	MeOH		10/18/2018 2:16:07 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
49	J8442-FS(3)	VC-MS09-SB02-0102	10/18/2018 2:48:44 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
50	J8442-FS-D(5)	VC-MS09-SB02-0102	10/18/2018 2:59:38 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff

(1)



Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
51	J8442-FS-D(7)	VC-MS09-SB02-0102	10/18/2018 3:10:33 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
52	J8442-FS-D(9)	VC-MS09-SB02-0102	10/18/2018 3:21:26 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
53	KB76 CCV	CCV	10/18/2018 3:32:19 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
54	MeOH		10/18/2018 3:43:13 PM	5-0369.dam	Data18-0590_18-01588_18-0589.wiff
1	J8443-FS(3)	VC-MS09-SB02-0506	10/18/2018 3:54:05 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
2	J8443-FS-D(5)	VC-MS09-SB02-0506	10/18/2018 4:04:56 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
3	J8443-FS-D(7)	VC-MS09-SB02-0506	10/18/2018 4:15:48 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
4	J8444-FS-D(7)	VC-MS09-SS03-000H	10/18/2018 4:26:39 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
5	J8444-FS-D(9)	VC-MS09-SS03-000H	10/18/2018 4:37:32 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
6	J8444-FS-D(11)	VC-MS09-SS03-000H	10/18/2018 4:48:24 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
7	J8444-FS-D(13)	VC-MS09-SS03-000H	10/18/2018 4:59:16 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
8	J8444-FS-D(15)	VC-MS09-SS03-000H	10/18/2018 5:10:08 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
9	KB77 CCV	CCV	10/18/2018 5:20:59 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
10	MeOH		10/18/2018 5:31:50 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
11	J8445-FS(3)	VC-MS09-SB03-0102	10/18/2018 5:42:42 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
12	J8445-FS-D(5)	VC-MS09-SB03-0102	10/18/2018 5:53:34 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
13	J8445-FS-D(7)	VC-MS09-SB03-0102	10/18/2018 6:04:26 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
14	J8445-FS-D(9)	VC-MS09-SB03-0102	10/18/2018 6:15:17 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
15	J8446-FS(3)	VC-MS09-SB03-0506	10/18/2018 6:26:09 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
16	J8446-FS-D(5)	VC-MS09-SB03-0506	10/18/2018 6:37:01 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
17	J8447-FS(3)	VC-MS09-SS04-000H	10/18/2018 6:47:52 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
18	J8448-FS(3)	VC-MS09-SB04-0102	10/18/2018 6:58:43 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
19	J8448-FS-D(5)	VC-MS09-SB04-0102	10/18/2018 7:09:33 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
20	KB76 CCV	CCV	10/18/2018 7:20:24 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
21	MeOH		10/18/2018 7:31:17 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
22	J8449-FS(3)	VC-MS09-SB04-0506	10/18/2018 7:42:10 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
23	J8449-FS-D(5)	VC-MS09-SB04-0506	10/18/2018 7:53:03 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff

(1)

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
			PM		0589.wiff
24	J8450-FS(3)	VC-MS09-SS05-000H	10/18/2018 8:03:55 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
25	J8450-FS-D(5)	VC-MS09-SS05-000H	10/18/2018 8:14:47 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
26	J8451-FS(3)	VC-MS09-SB05-0102	10/18/2018 8:25:38 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
27	J8451-FS-D(5)	VC-MS09-SB05-0102	10/18/2018 8:36:29 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
28	J5452-FS(3)	VC-MS09-SB05-0506	10/18/2018 8:47:20 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
29	J8452-FS-D(5)	VC-MS09-SB05-0506	10/18/2018 8:58:12 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
30	KB77 CCV	CCV	10/18/2018 9:09:03 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
31	MeOH		10/18/2018 9:19:54 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
32	J8453MS-FS(3)	VC-MS09-SB04-0102-MS	10/18/2018 9:30:47 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
33	J8453MS-FS-D(5)	VC-MS09-SB04-0102-MS	10/18/2018 9:41:39 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
34	J8454MSD-FS(3)	VC-MS09-SB04-0102-MSD	10/18/2018 9:52:29 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
35	J8454MSD-FS-D(5)	VC-MS09-SB04-0102-MSD	10/18/2018 10:03:21 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
36	KB76 CCV	CCV	10/18/2018 10:14:13 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
37	MeOH		10/18/2018 10:25:04 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
38	J8444-FS(5)	VC-MS09-SS03-000H	10/18/2018 10:35:56 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
19	MeOH		10/18/2018 11:41:06 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
1	CR904PB-FS(3)	Procedural Blank	10/18/2018 11:51:59 PM	5-0369.dam	18-0590_18-01588_18-0589.wiff
2	CR905LCS-FS(3)	Laboratory Control Sample	10/19/2018 12:02:52 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
3	J8465-FS(3)	VC-PM367-SS01-000H	10/19/2018 12:13:45 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
4	J8466-FS(3)	VC-PM367-SB01-0102	10/19/2018 12:24:40 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
5	J8467-FS(3)	VC-PM367-SB01-0506	10/19/2018 12:35:32 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
6	J8468-FS(3)	VC-PM367-SS02-000H	10/19/2018 12:46:24 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
7	J8469-FS(3)	VC-PM367-SB02-0102	10/19/2018 12:57:16 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
8	J8470-FS(3)	VC-PM367-SB02-0506	10/19/2018 1:08:08 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
9	J8471-FS(3)	VC-PM367-SS03-000H	10/19/2018 1:19:00 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
10	KB76 CCV	CCV	10/19/2018 1:29:53 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff

(1)



Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
11	MeOH		10/19/2018 1:40:47 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
12	J8472-FS(3)	VC-PM367-SB03-0102	10/19/2018 1:51:41 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
13	J8473-FS(3)	VC-PM367-SB03-0506	10/19/2018 2:02:34 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
14	J8474-FS(3)	VC-PM367-SS04-000H	10/19/2018 2:13:28 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
15	J8475-FS(3)	VC-PM367-SB04-0102	10/19/2018 2:24:20 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
16	J8476-FS(3)	VC-PM367-SB04-0506	10/19/2018 2:35:12 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
17	J8337-FS-D(13)	VC-PM324-DW02-0918	10/19/2018 2:46:05 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff
18	KB77 CCV	CCV	10/19/2018 2:56:57 AM	5-0369.dam	18-0590_18-01588_18-0589.wiff

(1)

(1) Samples do not apply to this batch. LMG 10/25/18

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
1	KB75 ISC	Instrument Sensitivity Check	10/19/2018 6:16:51 PM	5-0369.dam	10192018.wiff
2	KB80 IB	Instrument Blank	10/19/2018 6:27:43 PM	5-0369.dam	10192018.wiff
3	MeOH		10/19/2018 6:38:37 PM	5-0369.dam	10192018.wiff
<del>4</del>	<del>KC52 CKC 1</del>	<del>Standard Check</del>	<del>10/19/2018 6:49:30 PM</del>	<del>5-0369.dam</del>	<del>10192018.wiff</del>
5	KC52 CHK2	Standard Check	10/19/2018 7:00:22 PM	5-0369.dam	10192018.wiff
6	CR904PB-FS(3)	Procedural Blank	10/19/2018 7:11:14 PM	5-0369.dam	10192018.wiff
7	CR890PB-FS(0)	Procedural Blank	10/19/2018 7:22:06 PM	5-0369.dam	10192018.wiff
8	J8384-FS-D(5)	VC-PM64B-DW03-0918	10/19/2018 7:32:58 PM	5-0369.dam	10192018.wiff
9	J8358-FS(0)	VC-PM323-DW01-0918	10/19/2018 7:43:49 PM	5-0369.dam	10192018.wiff
1	MeOH		10/19/2018 7:54:40 PM	5-0369.dam	10192018.wiff
10	J8400-FS-D(9)	VC-HS09-DW03P-0918	10/19/2018 8:05:33 PM	5-0369.dam	10192018.wiff
11	J8371-FS-D(9)	VC-PM324-DW01P-0918	10/19/2018 8:16:26 PM	5-0369.dam	10192018.wiff
12	J8464MSD-FS-D(7)	VC-MS09-DW05-0918-MSD	10/19/2018 8:27:19 PM	5-0369.dam	10192018.wiff
13	KB76 CCV	CCV	10/19/2018 8:38:12 PM	5-0369.dam	10192018.wiff
1	MeOH		10/19/2018 8:49:05 PM	5-0369.dam	10192018.wiff
14	J8462-FS-D(7)	VC-CS12-SB02-0102	10/19/2018 8:59:57 PM	5-0369.dam	10192018.wiff
15	J8477-FS-D(7)	VC-CS10-SS03-000H	10/19/2018 9:10:49 PM	5-0369.dam	10192018.wiff
16	J8478-FS-D(7)	VC-CS10-SB03-0102	10/19/2018 9:21:41 PM	5-0369.dam	10192018.wiff
17	J8479-FS-D(7)	VC-CS10-SB03-0506	10/19/2018 9:32:32 PM	5-0369.dam	10192018.wiff
18	J8480-FS-D(7)	VC-CS10-SS04-000H	10/19/2018 9:43:23 PM	5-0369.dam	10192018.wiff
19	J8481-FS-D(7)	VC-CS10-SB04-0102	10/19/2018 9:54:14 PM	5-0369.dam	10192018.wiff
20	<del>J8460-FS-D(7)</del>	<del>VC-CS12-SB01-0506</del>	<del>10/19/2018 10:05:06 PM</del>	<del>5-0369.dam</del>	<del>10192018.wiff</del>
21	J8461-FS-D(7)	VC-CS12-SS02-000H	10/19/2018 10:15:59 PM	5-0369.dam	10192018.wiff
22	KB77 CCV	CCV	10/19/2018 10:26:52 PM	5-0369.dam	10192018.wiff
1	MeOH		10/19/2018 10:37:43 PM	5-0369.dam	10192018.wiff
23	J8440-FS-D(7)	VC-MS09-SB01-0506	10/19/2018 10:48:35 PM	5-0369.dam	10192018.wiff
24	J8443-FS-D(9)	VC-MS09-SB02-0506	10/19/2018 10:59:28	5-0369.dam	10192018.wiff

(1)

(2)

(1)

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
			PM		
25	J8445-FS-D(11)	VC-MS09-SB03-0102	10/19/2018 11:10:20 PM	5-0369.dam	10192018.wiff
26	J8446-FS-D(7)	VC-MS09-SB03-0506	10/19/2018 11:21:12 PM	5-0369.dam	10192018.wiff
27	J8450-FS-D(7)	VC-MS09-SS05-000H	10/19/2018 11:32:04 PM	5-0369.dam	10192018.wiff
28	J8444-FS-D(17)	VC-MS09-SS03-000H	10/19/2018 11:42:56 PM	5-0369.dam	10192018.wiff
29	KB76 CCV	CCV	10/19/2018 11:53:48 PM	5-0369.dam	10192018.wiff

(1) Samples do not apply to this batch. LMG 10/25/18

(2) This dilution was not used and not reported. LMG 10/25/18

(1)

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
1	KB75 ISC	Instrument Sensitivity Check	10/23/2018 6:42:12 PM	5-0369.dam	5-0369_10232018_5500.wiff
2	KB80 IB	Instrument Blank	10/23/2018 6:53:06 PM	5-0369.dam	5-0369_10232018_5500.wiff
3	MeOH		10/23/2018 7:04:00 PM	5-0369.dam	5-0369_10232018_5500.wiff
4	J8460-FS-D(9)	VC-CS12-SB01-0506	10/23/2018 7:14:54 PM	5-0369.dam	5-0369_10232018_5500.wiff
<del>5</del>	<del>KC54 CHECK 1</del>	<del>Standard Check</del>	<del>10/23/2018 7:25:47 PM</del>	<del>5-0369.dam</del>	<del>5-0369_10232018_5500.wiff</del>
6	KC54 CHECK 2	Standard Check	10/23/2018 7:36:39 PM	5-0369.dam	5-0369_10232018_5500.wiff
7	MeOH		10/23/2018 7:47:31 PM	5-0369.dam	5-0369_10232018_5500.wiff
8	CS031PB-FS(0)	Procedural Blank	10/23/2018 7:58:22 PM	5-0369.dam	5-0369_10232018_5500.wiff
9	CS032LCS-FS(0)	Laboratory Control Sample	10/23/2018 8:09:14 PM	5-0369.dam	5-0369_10232018_5500.wiff
10	J8913-FS(0)		10/23/2018 8:20:06 PM	5-0369.dam	5-0369_10232018_5500.wiff
11	J8913-FS-D(3)		10/23/2018 8:30:57 PM	5-0369.dam	5-0369_10232018_5500.wiff
12	J8913-FS-D(5)		10/23/2018 8:41:49 PM	5-0369.dam	5-0369_10232018_5500.wiff
13	KB77 CCV	CCV	10/23/2018 8:52:42 PM	5-0369.dam	5-0369_10232018_5500.wiff
<del>25</del>	<del>KB75 ISC</del>	<del>Instrument Sensitivity Check</del>	<del>10/24/2018 11:51:20 AM</del>	<del>5-0369.dam</del>	<del>AC_10242018_369.wiff</del>
26	KB80 IB	Instrument Blank	10/24/2018 12:02:11 PM	5-0369.dam	AC_10242018_369.wiff
31	J8913-FS-D(7)		10/24/2018 12:45:35 PM	5-0369.dam	AC_10242018_369.wiff
30	KB76 CCV	CCV	10/24/2018 12:56:27 PM	5-0369.dam	AC_10242018_369.wiff

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(1)

(1) Samples do not apply to this batch. LMG 10/25/18



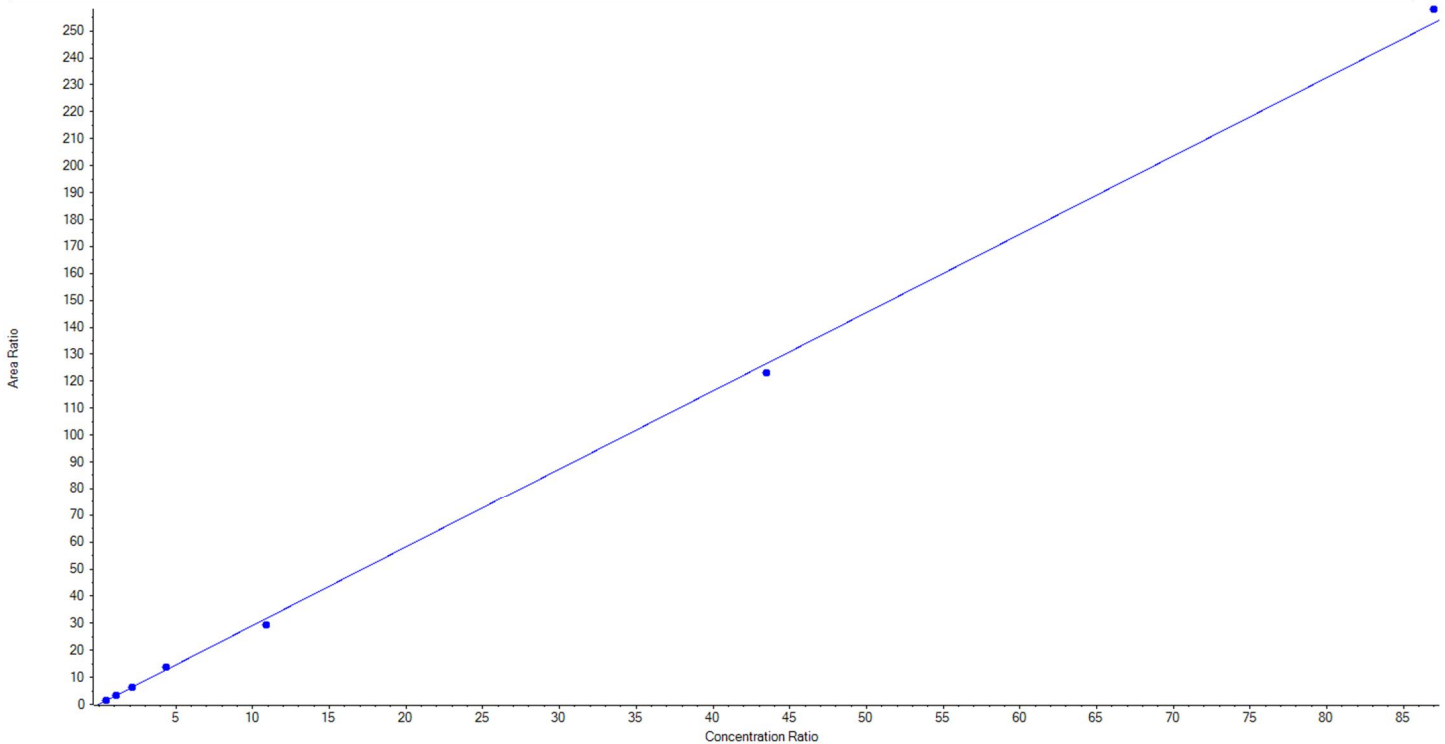
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFBS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	298.9 / 80.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C3-PFBS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 2.90746 x + 0.06970$  ( $r = 0.99940$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	104.635578	103.6
3	KB74	L2	True	252.50	249.370464	98.8
4	KB75	L3	True	505.00	495.098560	98.0
5	KB76	L4	True	1010.00	1091.288759	108.1
6	KB77	L5	True	2525.00	2332.691625	92.4
7	KB78	L6	True	10100.00	9811.581725	97.1
8	KB79	L7	True	20200.00	20608.833290	102.0





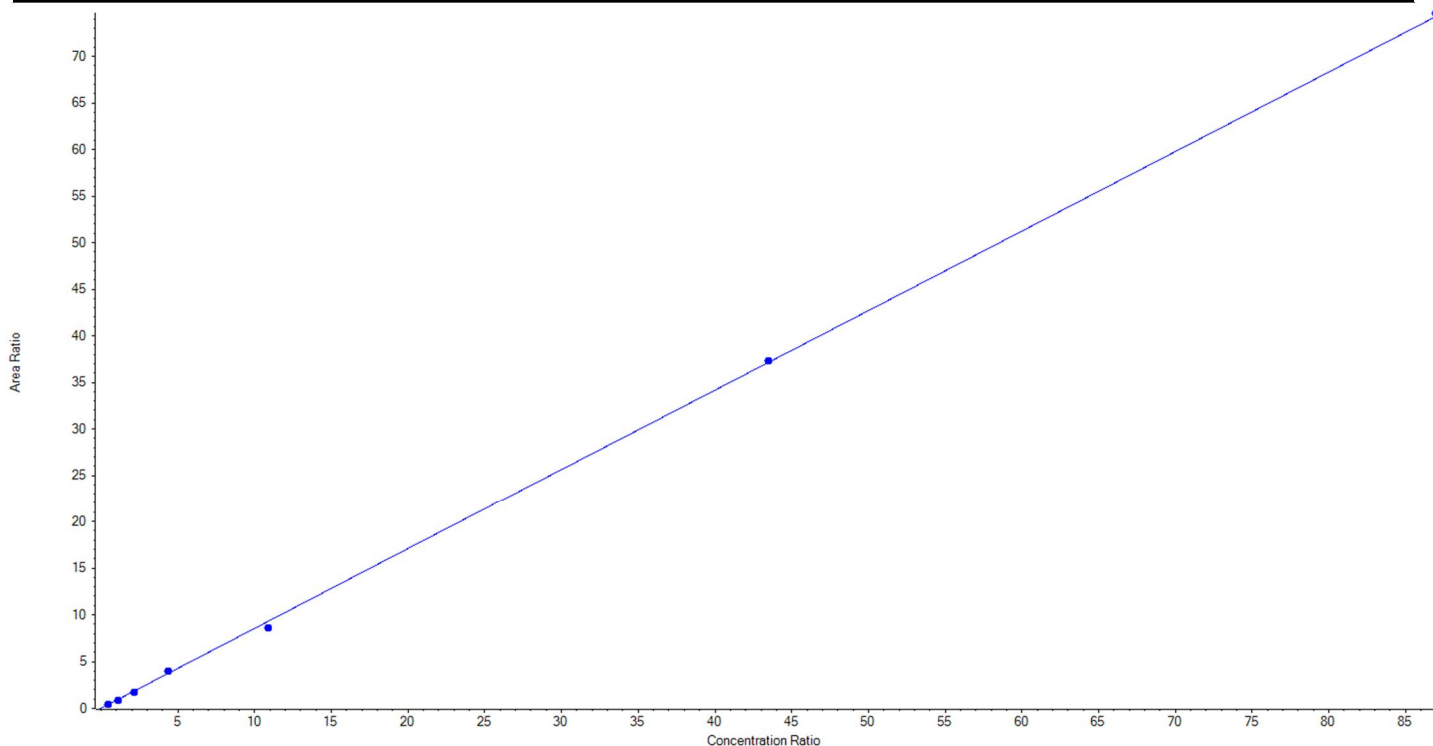
Calibration Summary Report

Created with Analyst Reporter  
 Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFBS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	298.9 / 99.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C3-PFBS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.85386 x + 0.01367$  (r = 0.99964) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	109.976962	108.9
3	KB74	L2	True	252.50	242.180085	95.9
4	KB75	L3	True	505.00	475.121472	94.1
5	KB76	L4	True	1010.00	1086.381545	107.6
6	KB77	L5	True	2525.00	2339.199841	92.6
7	KB78	L6	True	10100.00	10143.472130	100.4
8	KB79	L7	True	20200.00	20297.167965	100.5





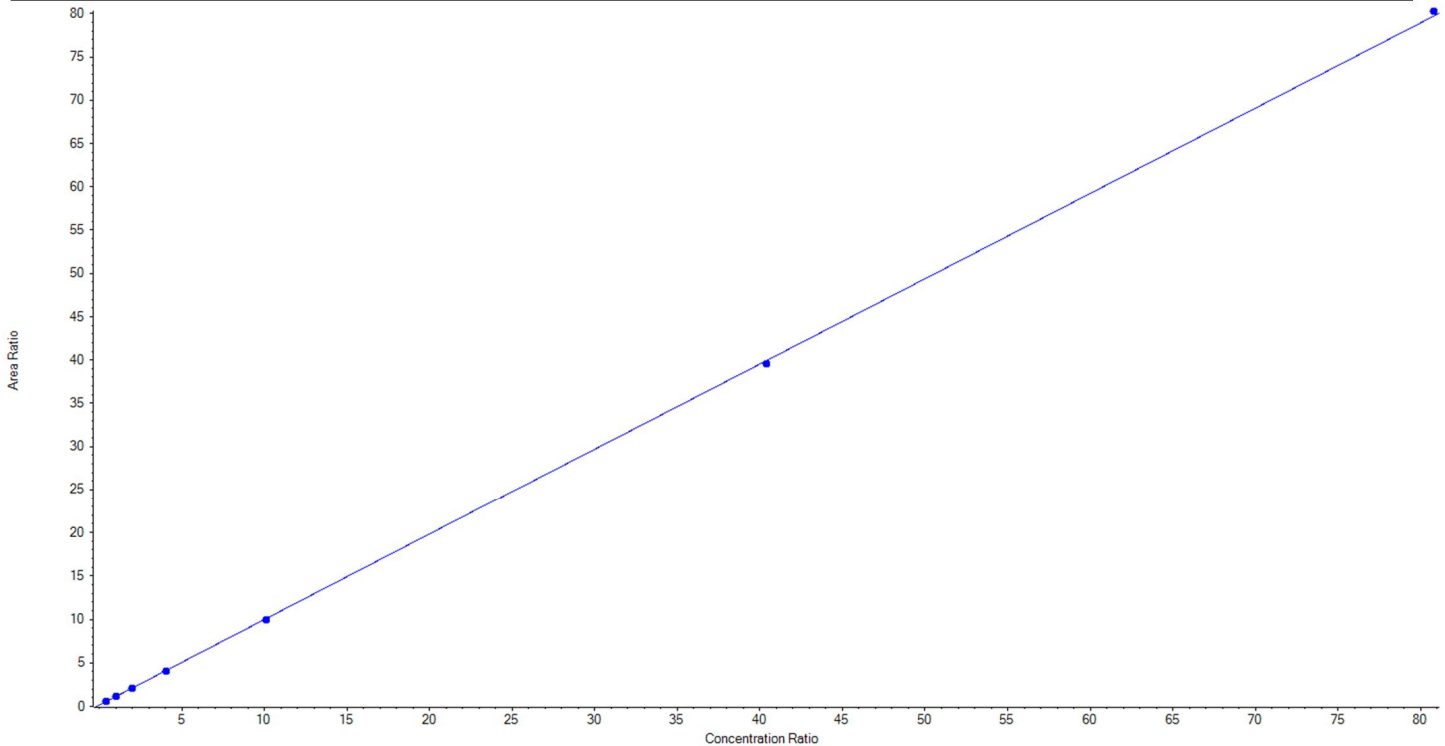
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFHxA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	313.0 / 269.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C5-PFHxA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.98501 x + 0.13333$  ( $r = 0.99994$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	98.968181	98.0
3	KB74	L2	True	252.50	269.910942	106.9
4	KB75	L3	True	505.00	490.752146	97.2
5	KB76	L4	True	1010.00	1004.472242	99.5
6	KB77	L5	True	2525.00	2495.865956	98.9
7	KB78	L6	True	10100.00	9993.499522	99.0
8	KB79	L7	True	20200.00	20340.031011	100.7





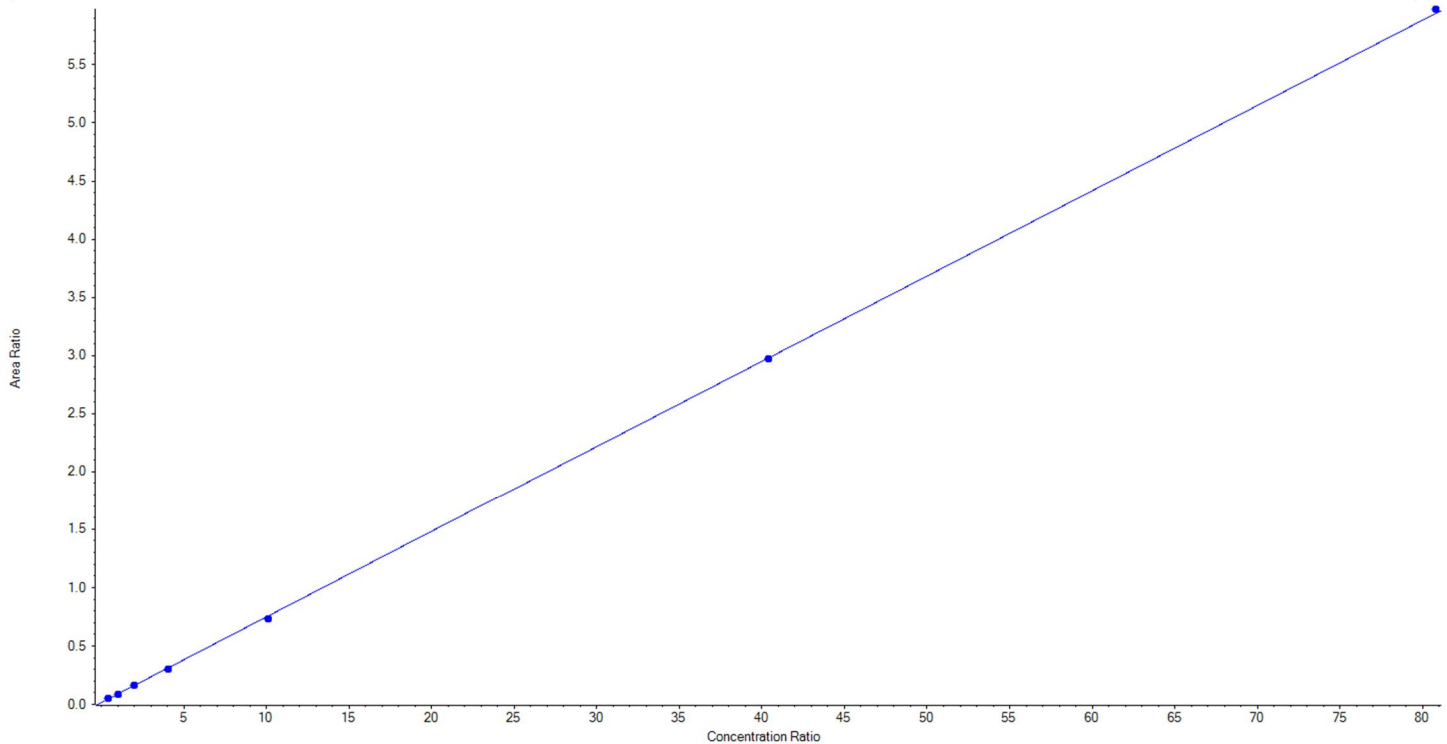
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFHxA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	313.0 / 119.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C5-PFHxA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.07336 x + 0.01493$  ( $r = 0.99989$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	113.183087	112.1
3	KB74	L2	True	252.50	230.645561	91.3
4	KB75	L3	True	505.00	514.901118	102.0
5	KB76	L4	True	1010.00	980.952621	97.1
6	KB77	L5	True	2525.00	2451.366061	97.1
7	KB78	L6	True	10100.00	10083.260482	99.8
8	KB79	L7	True	20200.00	20319.191070	100.6







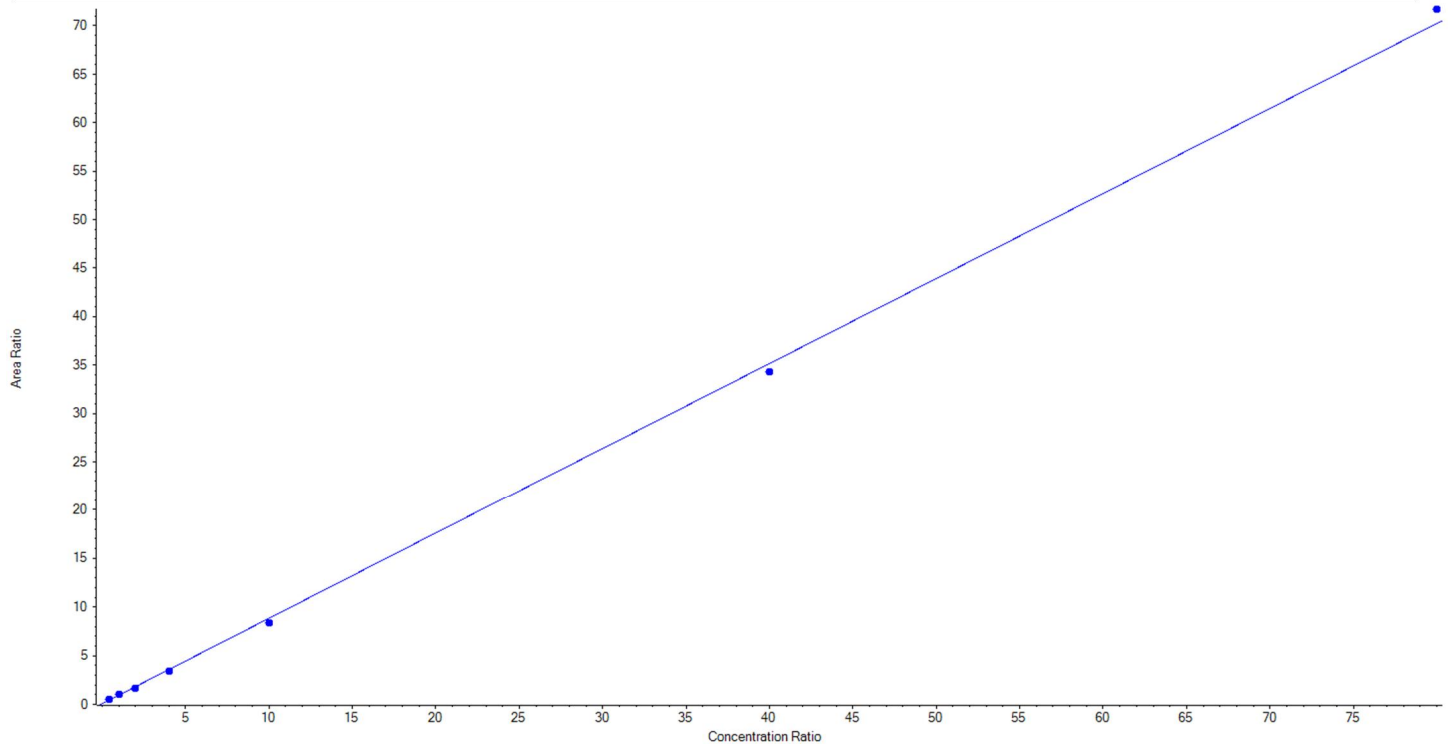
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFHpA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	363.0 / 319.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C4-PFHpA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.87722 x + 0.06760$  ( $r = 0.99955$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	113.465532	113.5
3	KB74	L2	True	250.00	261.922885	104.8
4	KB75	L3	True	500.00	452.888167	90.6
5	KB76	L4	True	1000.00	963.772233	96.4
6	KB77	L5	True	2500.00	2376.996854	95.1
7	KB78	L6	True	10000.00	9765.162244	97.7
8	KB79	L7	True	20000.00	20415.792084	102.1





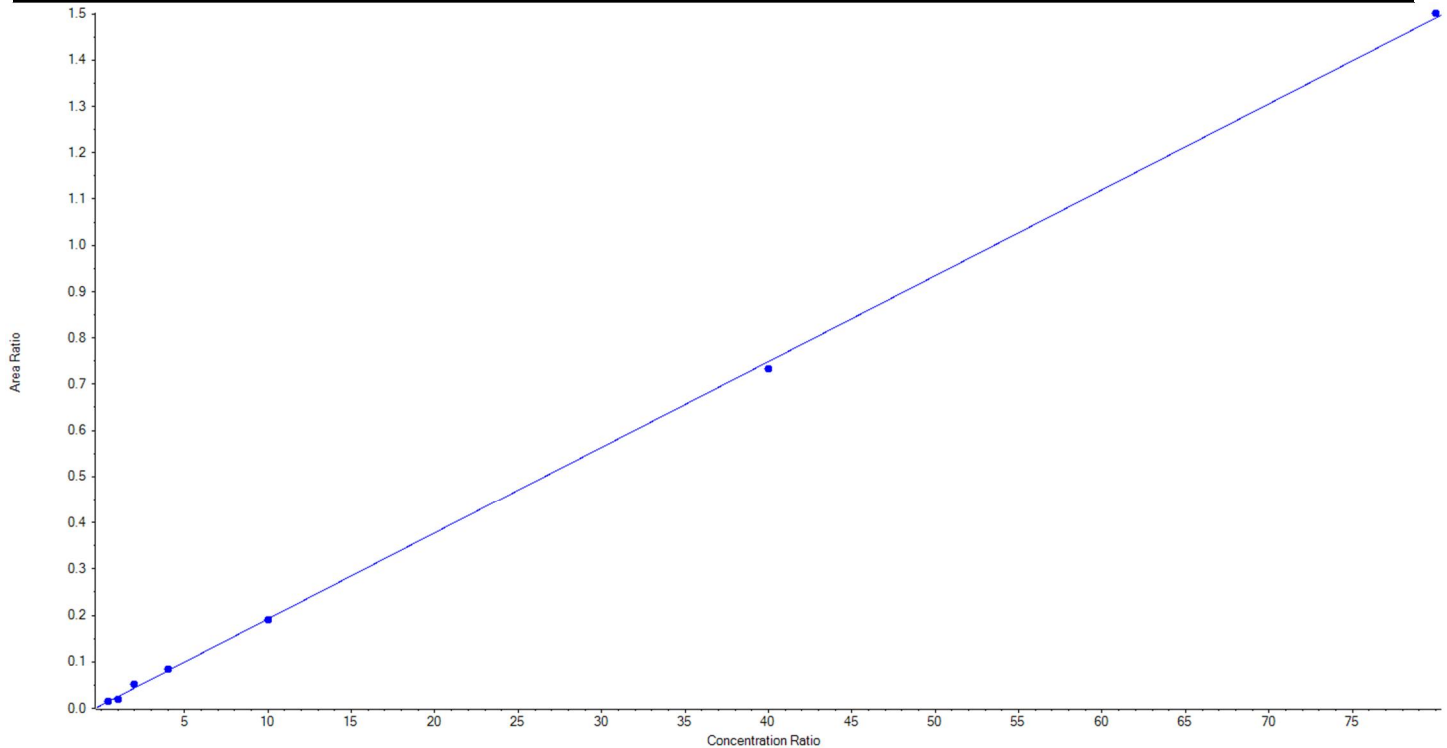
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFHpA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	363.0 / 169.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C4-PFHpA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.01856 x + 0.00664$  ( $r = 0.99907$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	103.311634	103.3
3	KB74	L2	True	250.00	175.823351	70.3
4	KB75	L3	True	500.00	618.850678	123.8
5	KB76	L4	True	1000.00	1051.701356	105.2
6	KB77	L5	True	2500.00	2469.602759	98.8
7	KB78	L6	True	10000.00	9796.218447	98.0
8	KB79	L7	True	20000.00	20134.491774	100.7





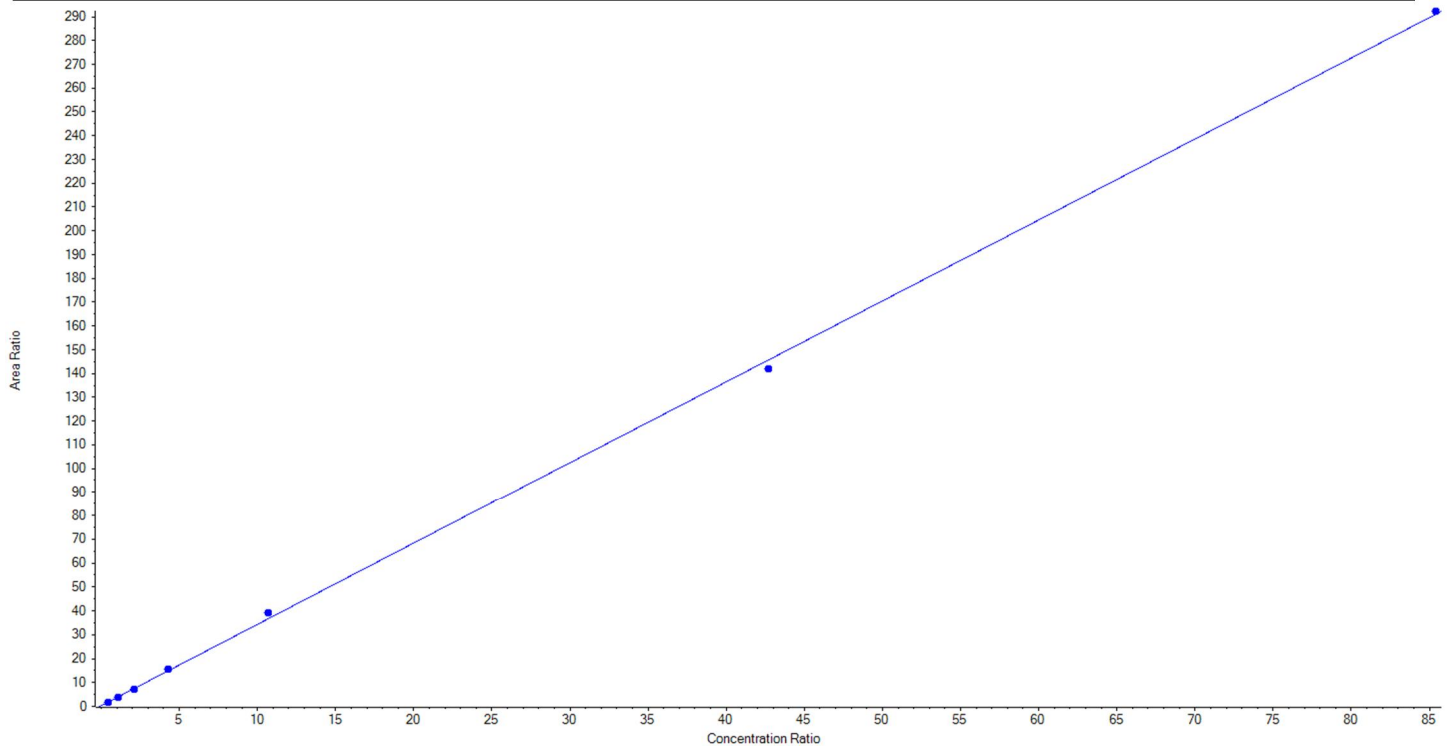
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFHxS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	399.0 / 80.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C3-PFHxS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 3.40443 x + 0.28942$  ( $r = 0.99956$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	105.225987	104.2
3	KB74	L2	True	252.50	232.865372	92.2
4	KB75	L3	True	505.00	467.824000	92.6
5	KB76	L4	True	1010.00	1074.776448	106.4
6	KB77	L5	True	2525.00	2696.493262	106.8
7	KB78	L6	True	10100.00	9828.822898	97.3
8	KB79	L7	True	20200.00	20287.492034	100.4





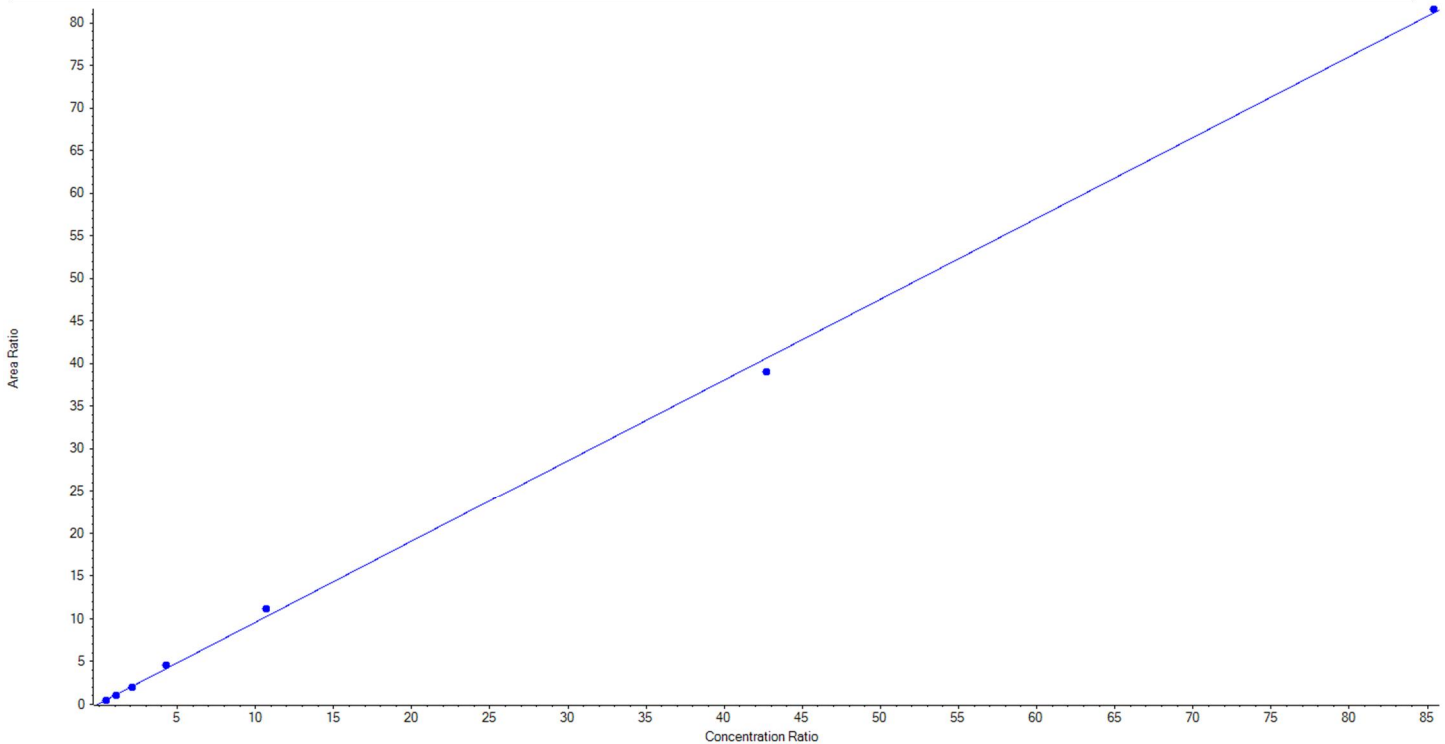
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFHxS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	399.0 / 99.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C3-PFHxS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.94916x + 0.10161$  ( $r = 0.99926$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	98.139274	97.2
3	KB74	L2	True	252.50	231.314187	91.6
4	KB75	L3	True	505.00	484.563583	96.0
5	KB76	L4	True	1010.00	1107.476178	109.7
6	KB77	L5	True	2525.00	2749.725828	108.9
7	KB78	L6	True	10100.00	9714.855919	96.2
8	KB79	L7	True	20200.00	20307.425032	100.5





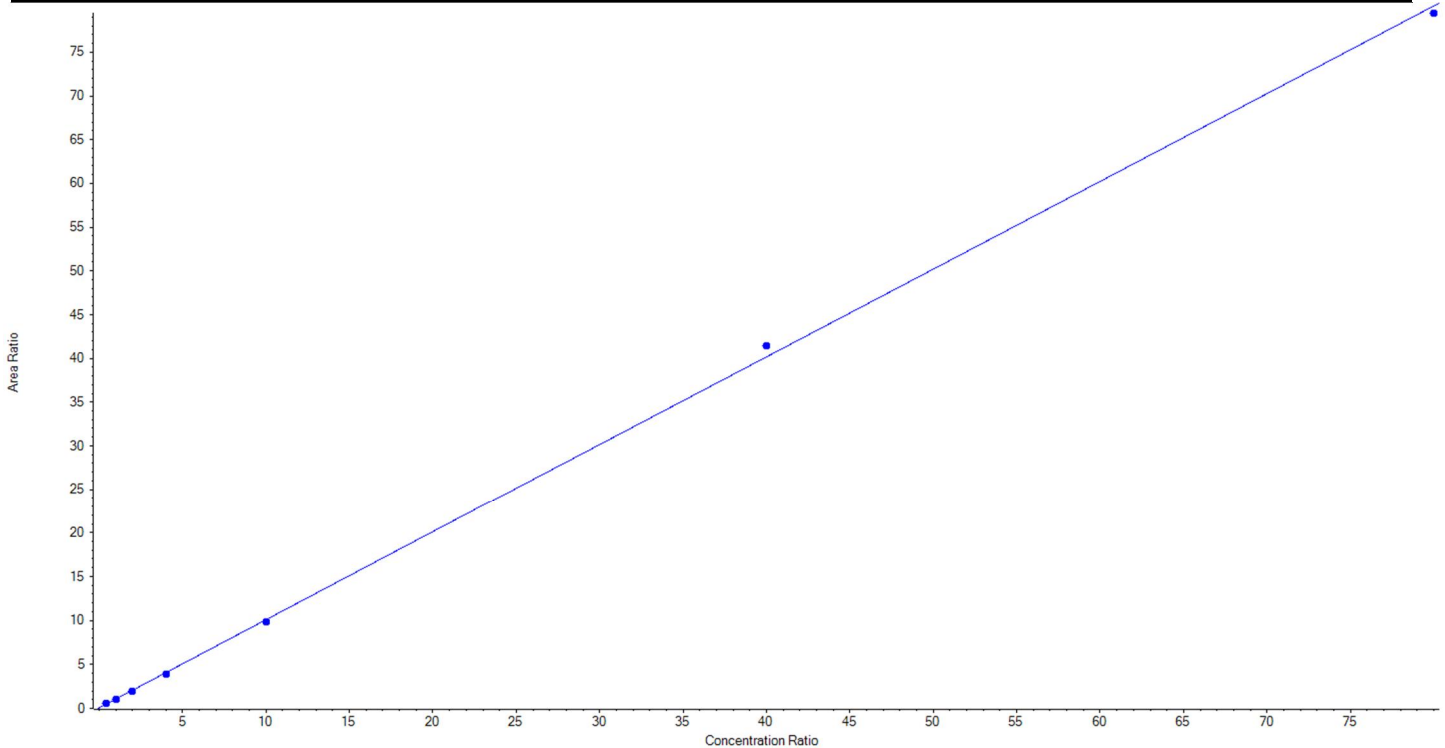
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFOA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	413.0 / 369.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C8-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.00279x + 0.06080$  ( $r = 0.99969$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	113.608497	113.6
3	KB74	L2	True	250.00	242.259718	96.9
4	KB75	L3	True	500.00	467.456638	93.5
5	KB76	L4	True	1000.00	956.844142	95.7
6	KB77	L5	True	2500.00	2452.232813	98.1
7	KB78	L6	True	10000.00	10326.914009	103.3
8	KB79	L7	True	20000.00	19790.684183	99.0





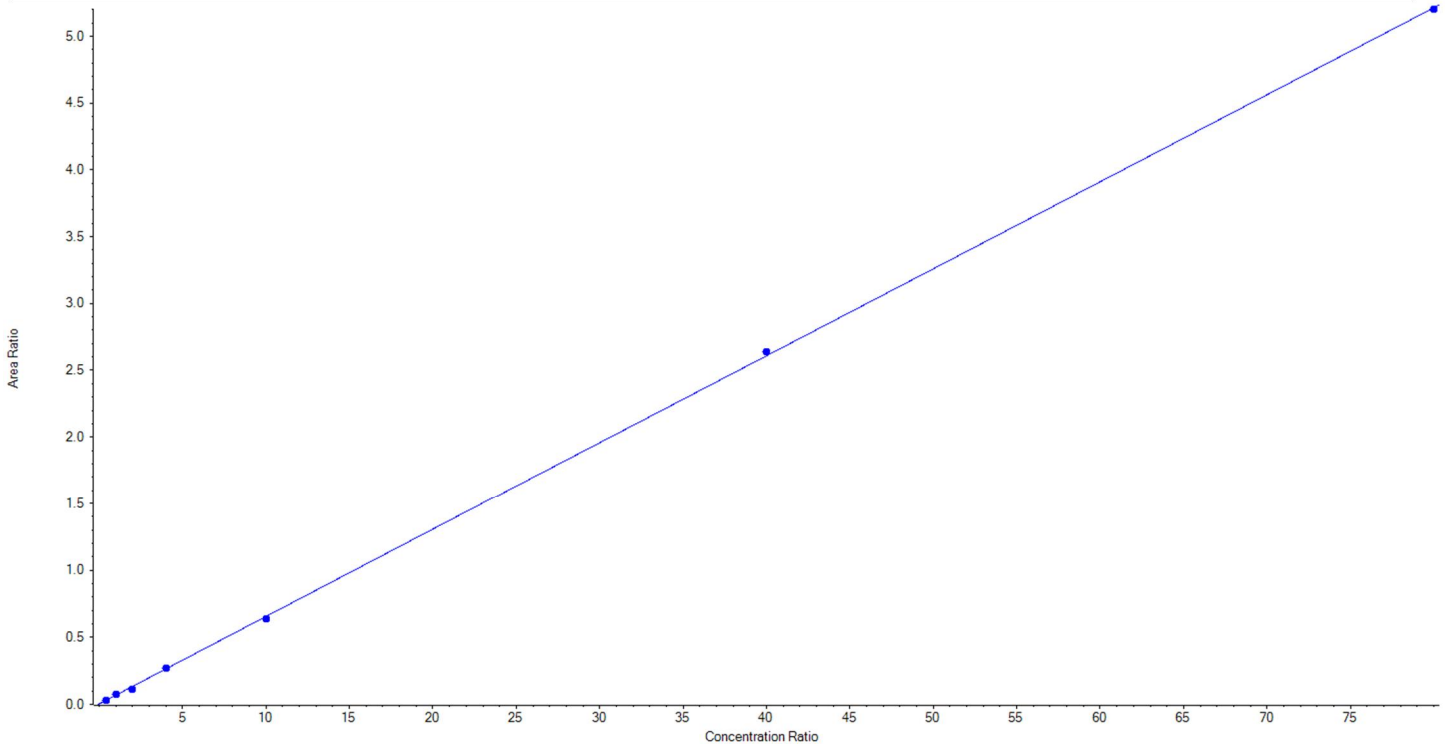
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFOA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	413.0 / 169.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C8-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.06512x + 0.00376$  ( $r = 0.99971$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	104.849376	104.9
3	KB74	L2	True	250.00	273.238913	109.3
4	KB75	L3	True	500.00	421.303706	84.3
5	KB76	L4	True	1000.00	1028.034772	102.8
6	KB77	L5	True	2500.00	2444.883328	97.8
7	KB78	L6	True	10000.00	10121.411629	101.2
8	KB79	L7	True	20000.00	19956.278277	99.8





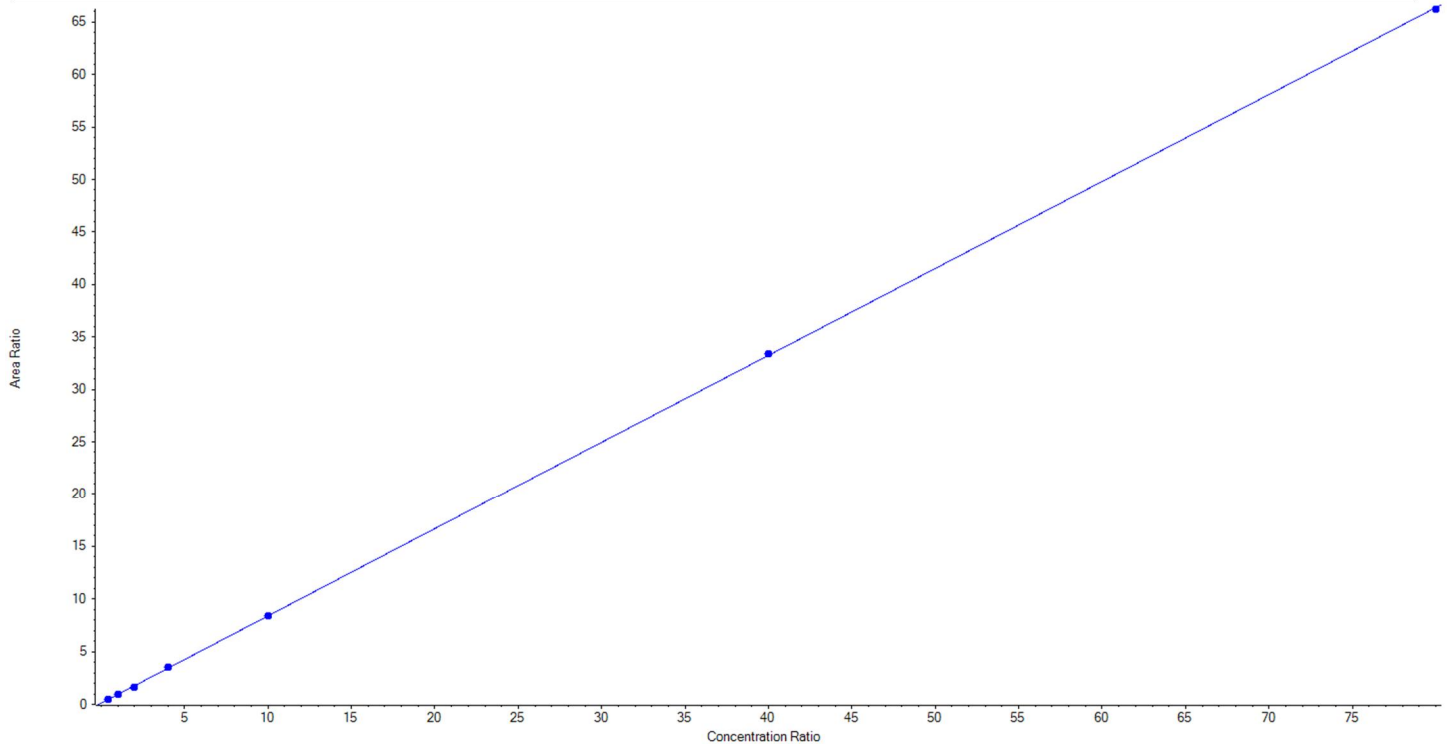
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFNA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	463.0 / 419.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C9-PFNA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.82839x + 0.10849$  ( $r = 0.99987$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	100.132667	100.1
3	KB74	L2	True	250.00	263.216231	105.3
4	KB75	L3	True	500.00	450.336433	90.1
5	KB76	L4	True	1000.00	1046.243999	104.6
6	KB77	L5	True	2500.00	2491.510736	99.7
7	KB78	L6	True	10000.00	10047.185055	100.5
8	KB79	L7	True	20000.00	19951.374879	99.8





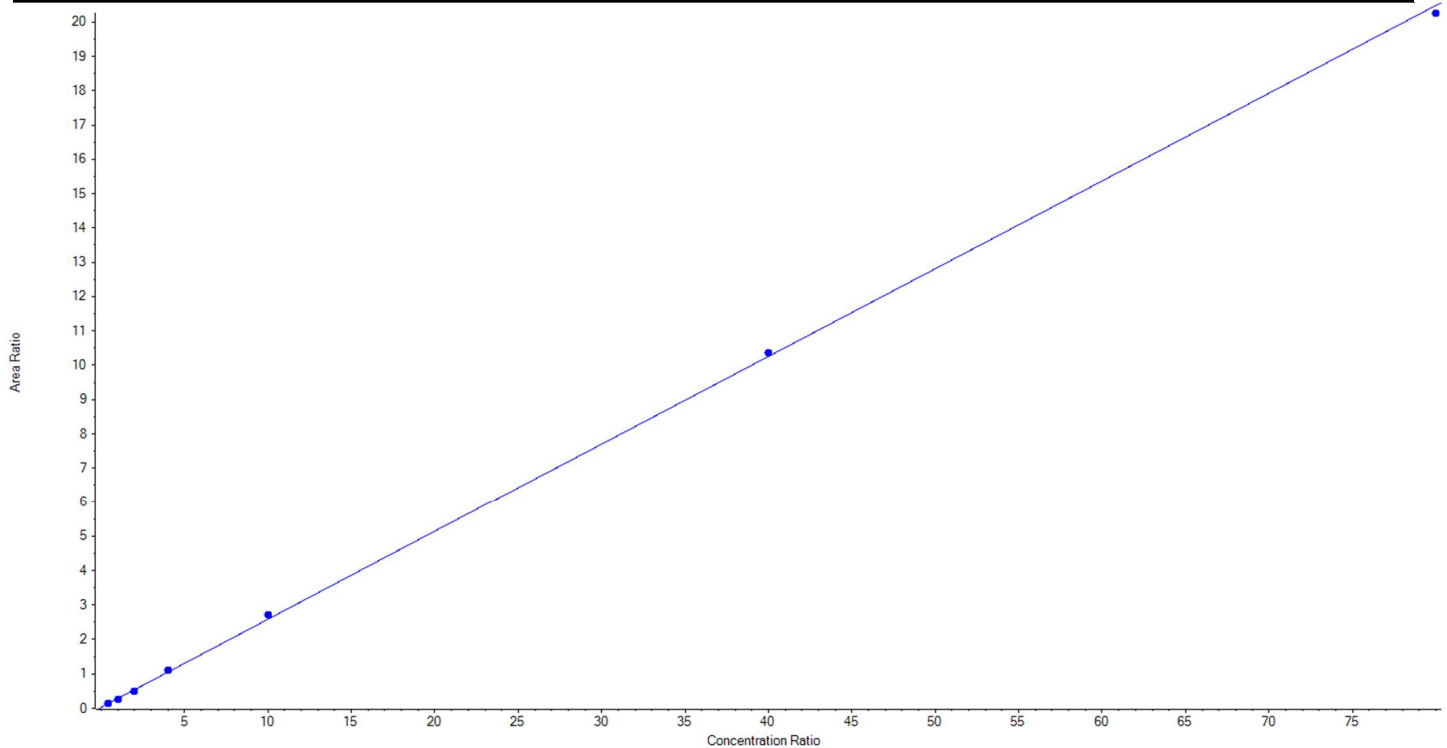
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFNA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	463.0 / 219.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C9-PFNA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.25566 x + 0.02957$  ( $r = 0.99963$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	111.702594	111.7
3	KB74	L2	True	250.00	220.916460	88.4
4	KB75	L3	True	500.00	448.287193	89.7
5	KB76	L4	True	1000.00	1050.052047	105.0
6	KB77	L5	True	2500.00	2632.290752	105.3
7	KB78	L6	True	10000.00	10108.558837	101.1
8	KB79	L7	True	20000.00	19778.192118	98.9







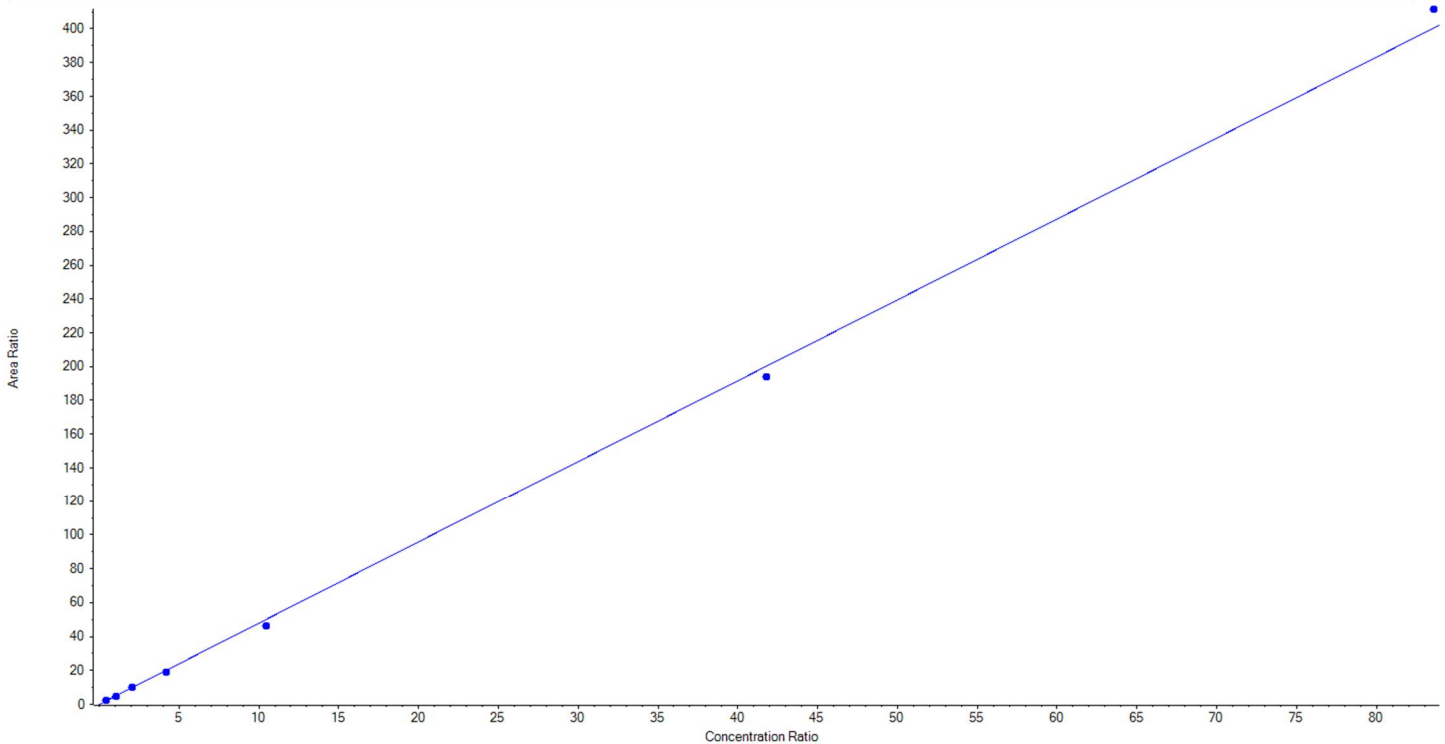
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFOS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	499.0 / 80.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C8-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 4.79098 x + -0.03583$  ( $r = 0.99927$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	112.998705	113.0
3	KB74	L2	True	250.00	245.807613	98.3
4	KB75	L3	True	500.00	508.954098	101.8
5	KB76	L4	True	1000.00	953.422687	95.3
6	KB77	L5	True	2500.00	2300.880982	92.0
7	KB78	L6	True	10000.00	9674.048541	96.7
8	KB79	L7	True	20000.00	20553.887374	102.8





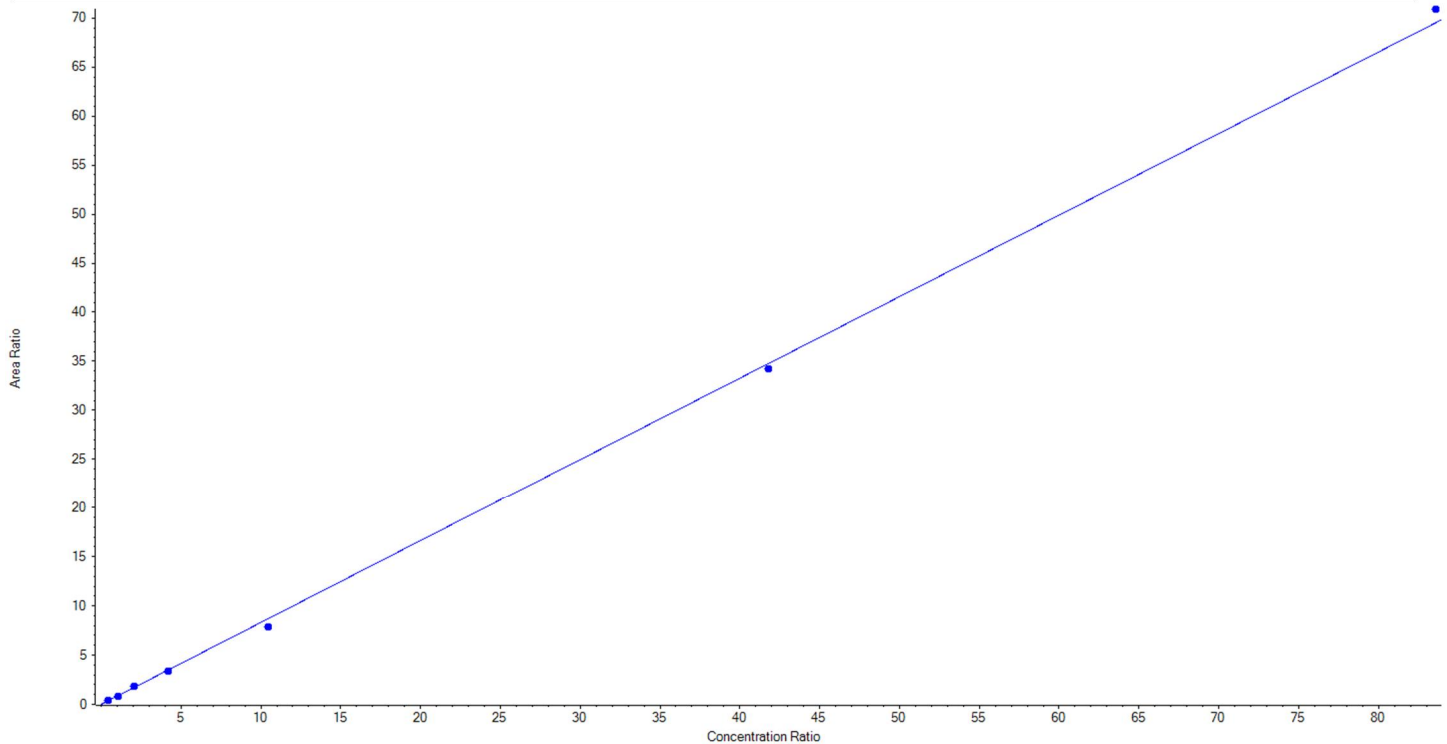
## Calibration Summary Report

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<b>Analyte Name</b>	PFOS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	499.0 / 99.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C8-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.83172 x + -0.00135$  ( $r = 0.99945$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	110.962710	111.0
3	KB74	L2	True	250.00	244.538081	97.8
4	KB75	L3	True	500.00	520.238814	104.1
5	KB76	L4	True	1000.00	958.547975	95.9
6	KB77	L5	True	2500.00	2271.299000	90.9
7	KB78	L6	True	10000.00	9849.093945	98.5
8	KB79	L7	True	20000.00	20395.319474	102.0





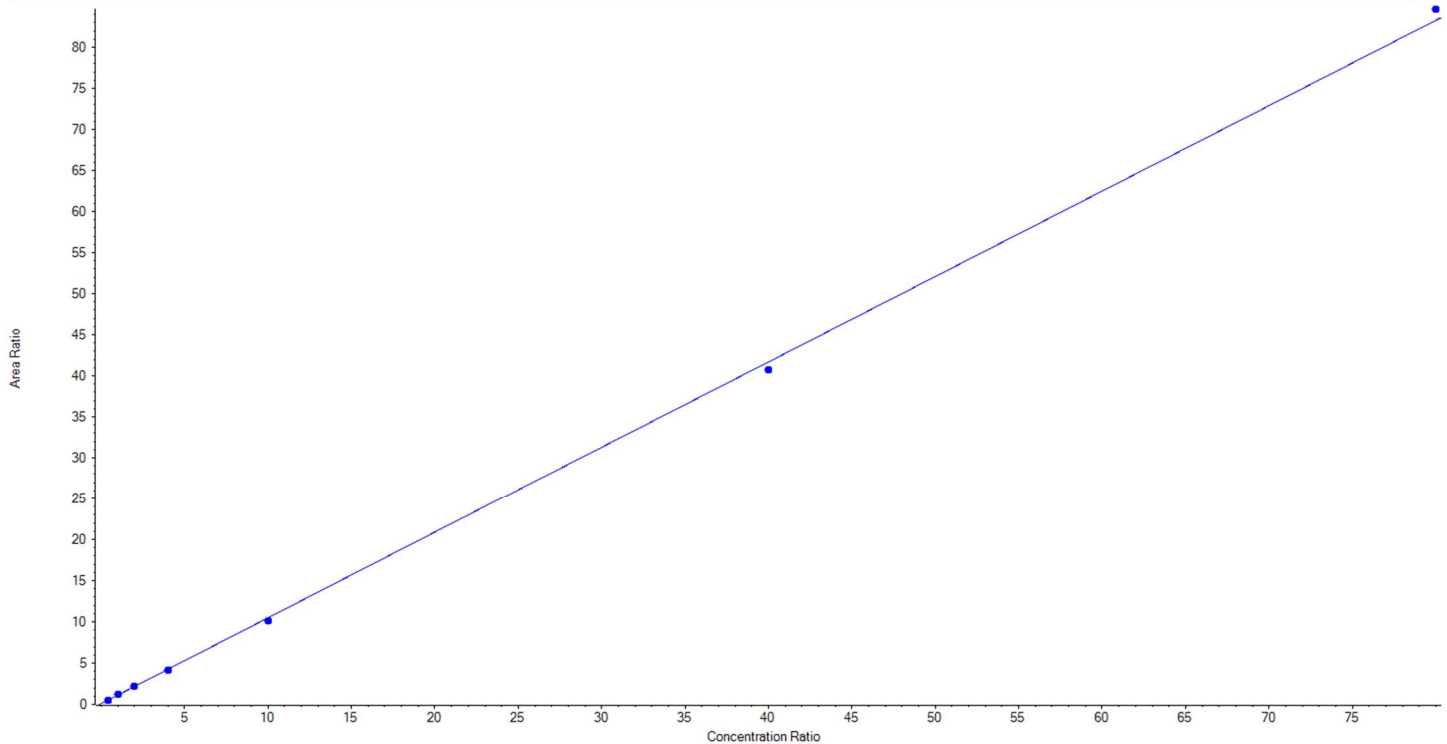
## Calibration Summary Report

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<b>Analyte Name</b>	PFDA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	513.0 / 469.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C6-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.03992x + 0.08967$  ( $r = 0.99977$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	100.375074	100.4
3	KB74	L2	True	250.00	264.467518	105.8
4	KB75	L3	True	500.00	495.556524	99.1
5	KB76	L4	True	1000.00	987.592944	98.8
6	KB77	L5	True	2500.00	2418.646707	96.8
7	KB78	L6	True	10000.00	9760.929085	97.6
8	KB79	L7	True	20000.00	20322.432148	101.6





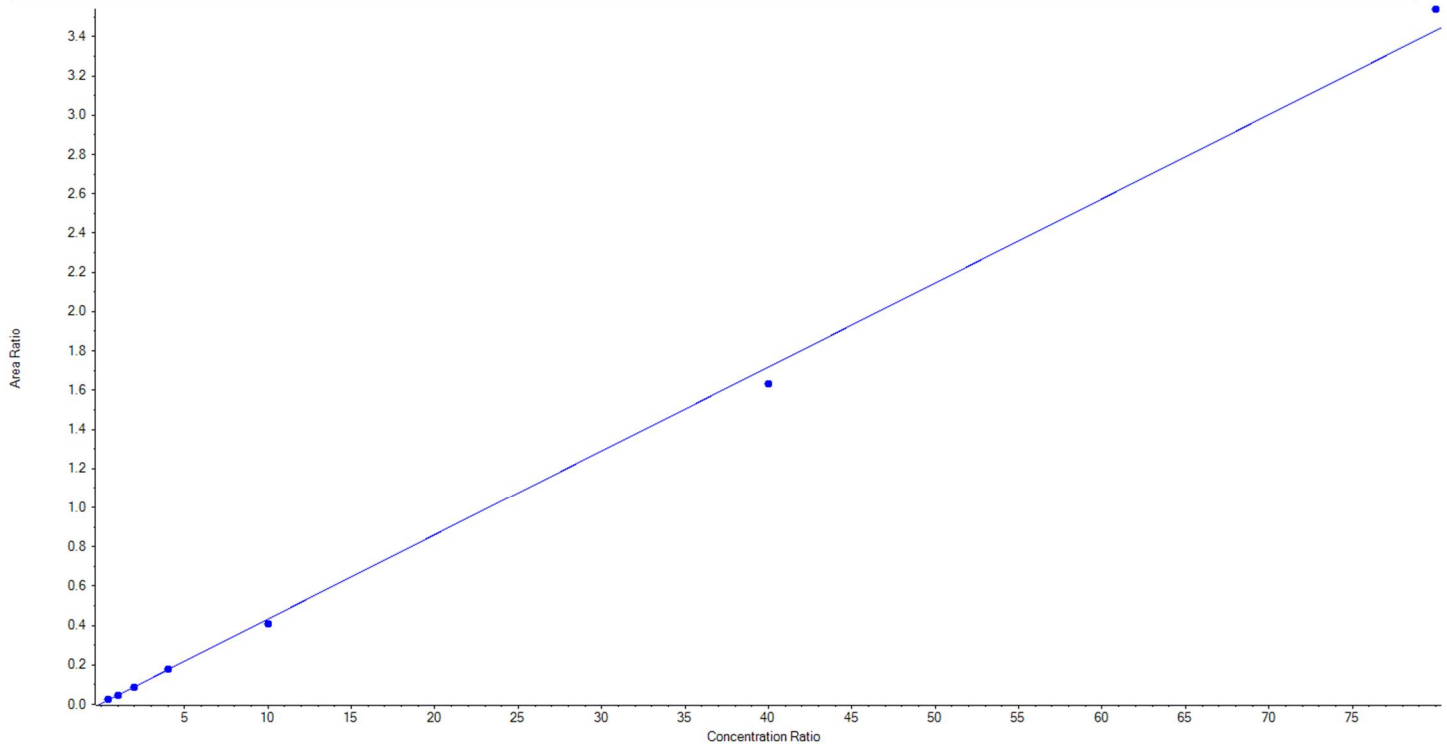
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFDA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	513.0 / 219.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C6-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.04284 x + 0.00408$  ( $r = 0.99914$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	112.406023	112.4
3	KB74	L2	True	250.00	245.500787	98.2
4	KB75	L3	True	500.00	479.073328	95.8
5	KB76	L4	True	1000.00	1010.924950	101.1
6	KB77	L5	True	2500.00	2354.317167	94.2
7	KB78	L6	True	10000.00	9514.985150	95.2
8	KB79	L7	True	20000.00	20632.792594	103.2





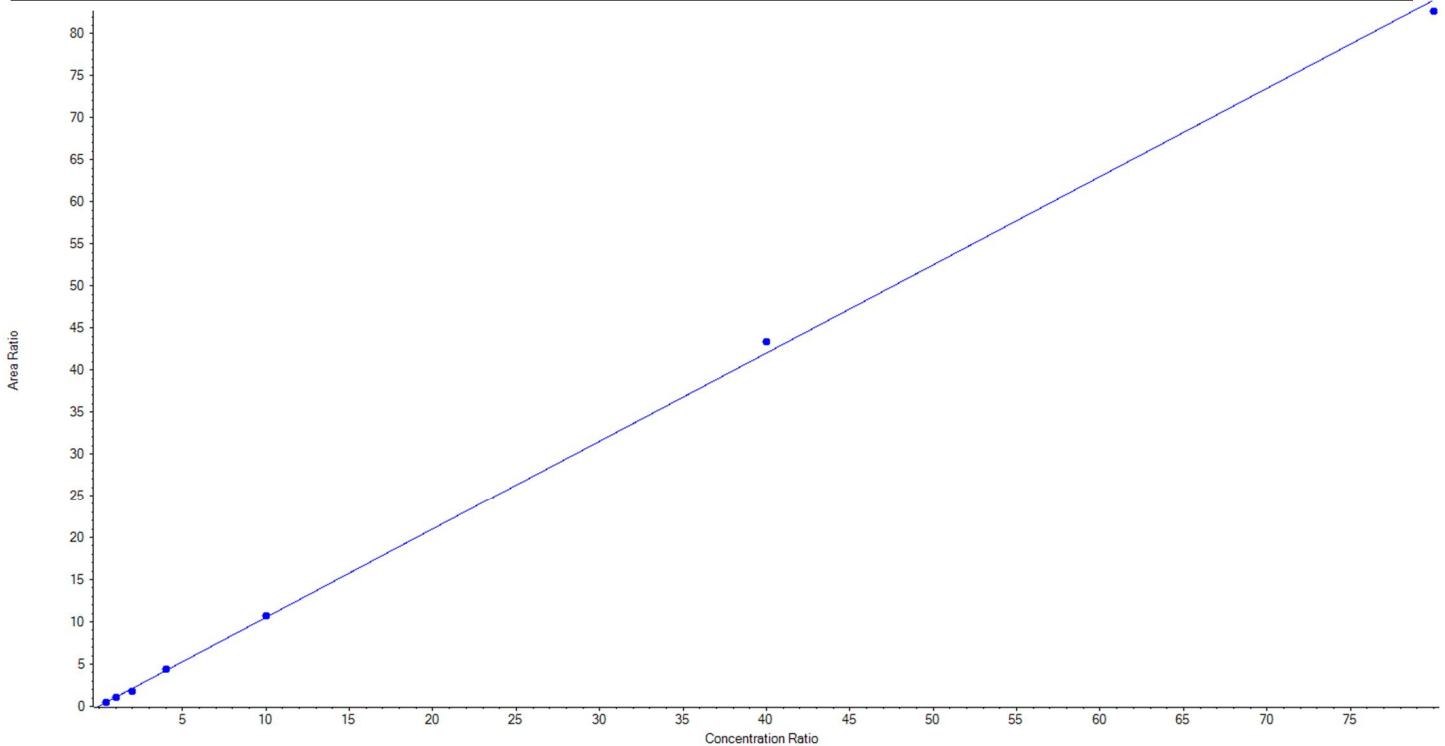
## Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	PFUnA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	563.0 / 519.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C7-PFUnA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.04939x + 0.04151$  ( $r = 0.99953$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	111.527231	111.5
3	KB74	L2	True	250.00	244.824605	97.9
4	KB75	L3	True	500.00	423.690587	84.7
5	KB76	L4	True	1000.00	1026.343861	102.6
6	KB77	L5	True	2500.00	2538.187940	101.5
7	KB78	L6	True	10000.00	10323.155375	103.2
8	KB79	L7	True	20000.00	19682.270401	98.4





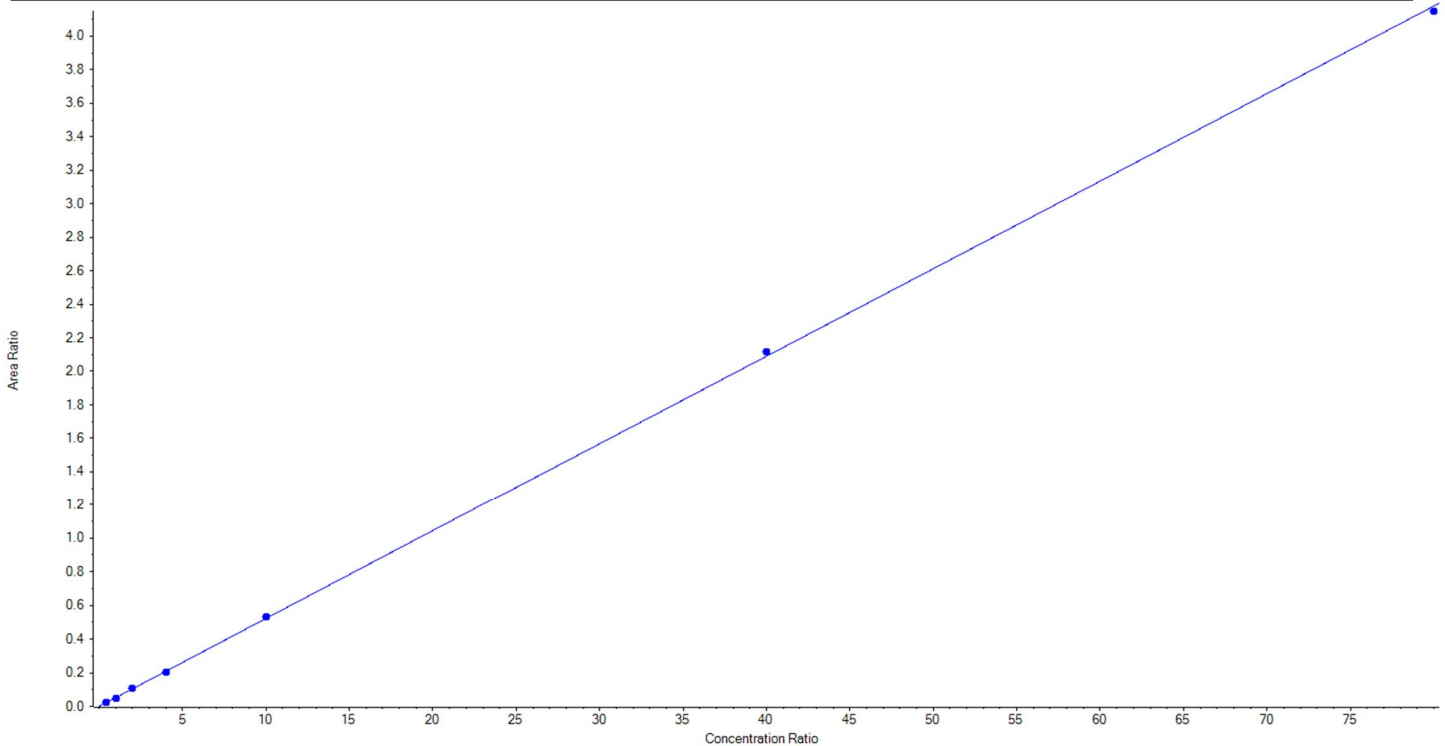
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFUnA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	563.0 / 269.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C7-PFUnA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.05225 x + -5.79528e-5$  ( $r = 0.99994$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	102.220892	102.2
3	KB74	L2	True	250.00	242.442598	97.0
4	KB75	L3	True	500.00	501.608235	100.3
5	KB76	L4	True	1000.00	981.918474	98.2
6	KB77	L5	True	2500.00	2544.385755	101.8
7	KB78	L6	True	10000.00	10125.204796	101.3
8	KB79	L7	True	20000.00	19852.219250	99.3





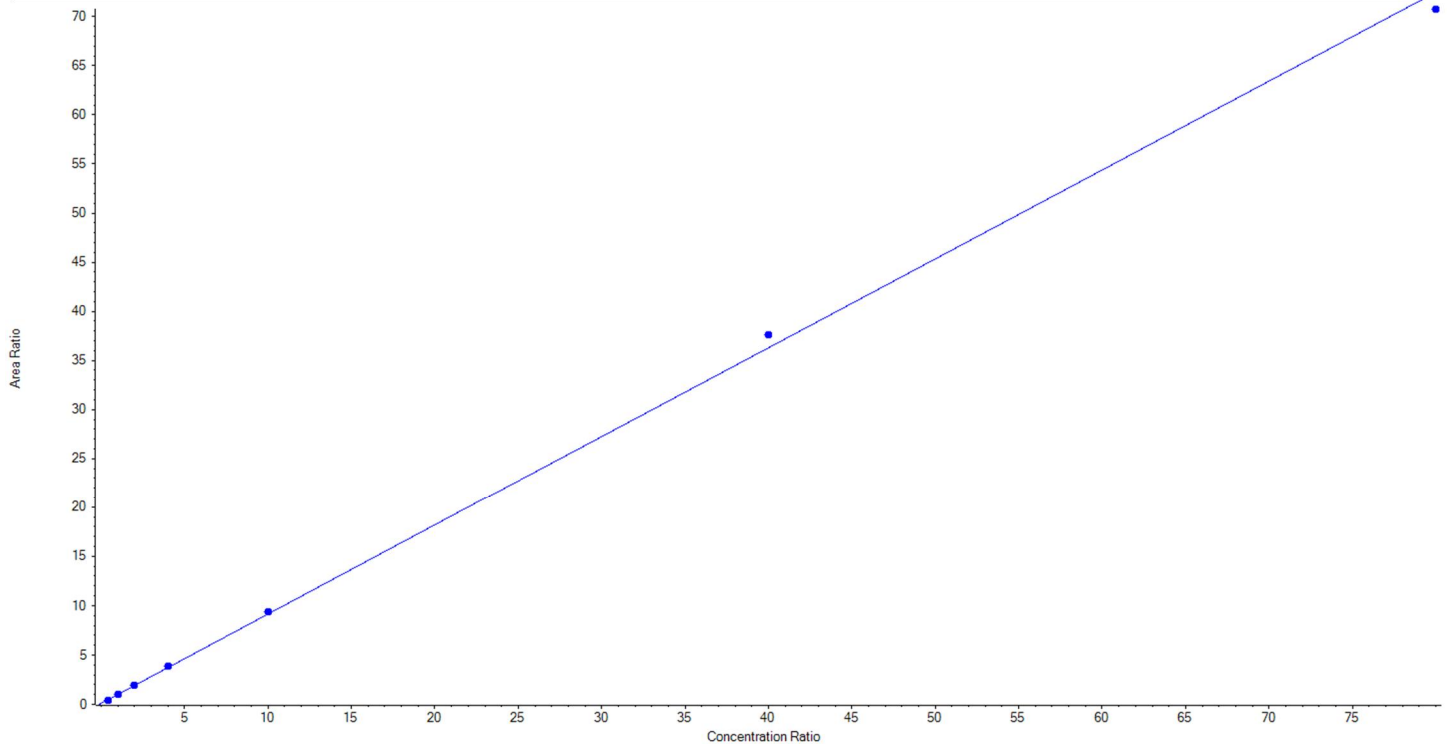
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFDoA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	613.0 / 569.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C2-PFDoA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.90471 x + 0.10550$  ( $r = 0.99952$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	90.939755	90.9
3	KB74	L2	True	250.00	247.072023	98.8
4	KB75	L3	True	500.00	506.360909	101.3
5	KB76	L4	True	1000.00	1050.478389	105.1
6	KB77	L5	True	2500.00	2565.539851	102.6
7	KB78	L6	True	10000.00	10368.355085	103.7
8	KB79	L7	True	20000.00	19521.253987	97.6





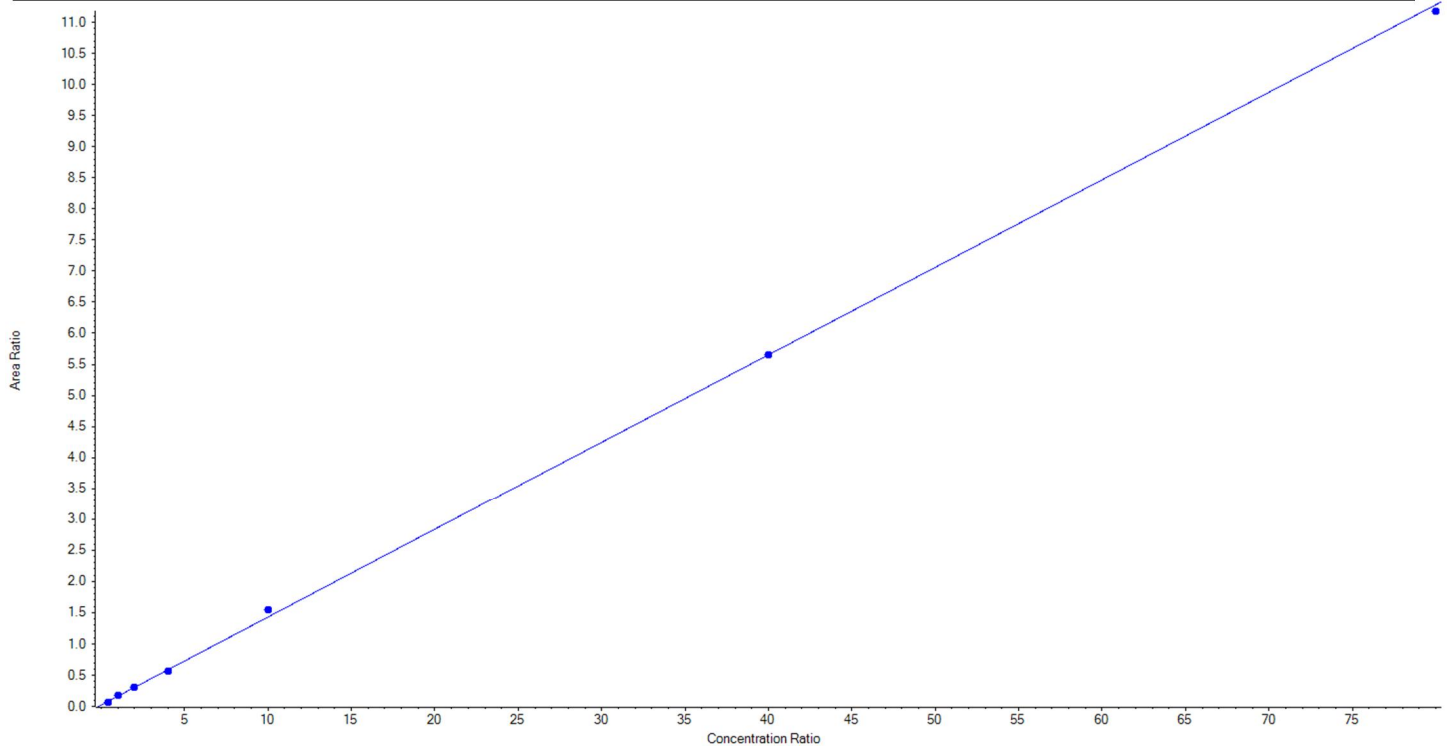
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:10:09 PM

<b>Analyte Name</b>	PFD <sub>o</sub> A_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	613.0 / 319.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C2-PFD <sub>o</sub> A	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.14074 x + 0.02292$  ( $r = 0.99961$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	86.545687	86.6
3	KB74	L2	True	250.00	274.615048	109.9
4	KB75	L3	True	500.00	494.661881	98.9
5	KB76	L4	True	1000.00	971.395687	97.1
6	KB77	L5	True	2500.00	2712.576260	108.5
7	KB78	L6	True	10000.00	9996.454238	100.0
8	KB79	L7	True	20000.00	19813.751199	99.1







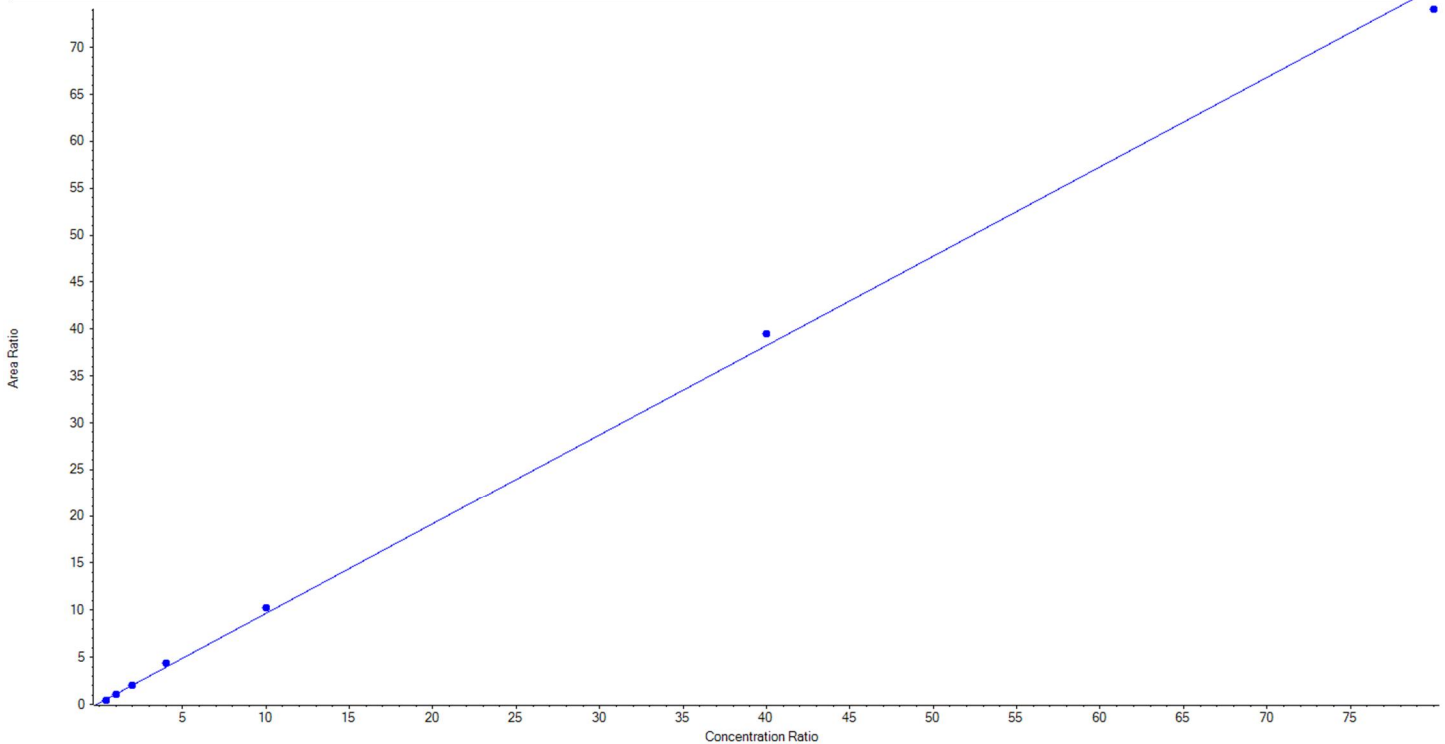
## Calibration Summary Report

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<b>Analyte Name</b>	PFTrDA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	663.0 / 619.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.95260x + 0.12887$  ( $r = 0.99908$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	85.967911	86.0
3	KB74	L2	True	250.00	241.563939	96.6
4	KB75	L3	True	500.00	488.700899	97.7
5	KB76	L4	True	1000.00	1126.764608	112.7
6	KB77	L5	True	2500.00	2664.921530	106.6
7	KB78	L6	True	10000.00	10336.521146	103.4
8	KB79	L7	True	20000.00	19405.559967	97.0





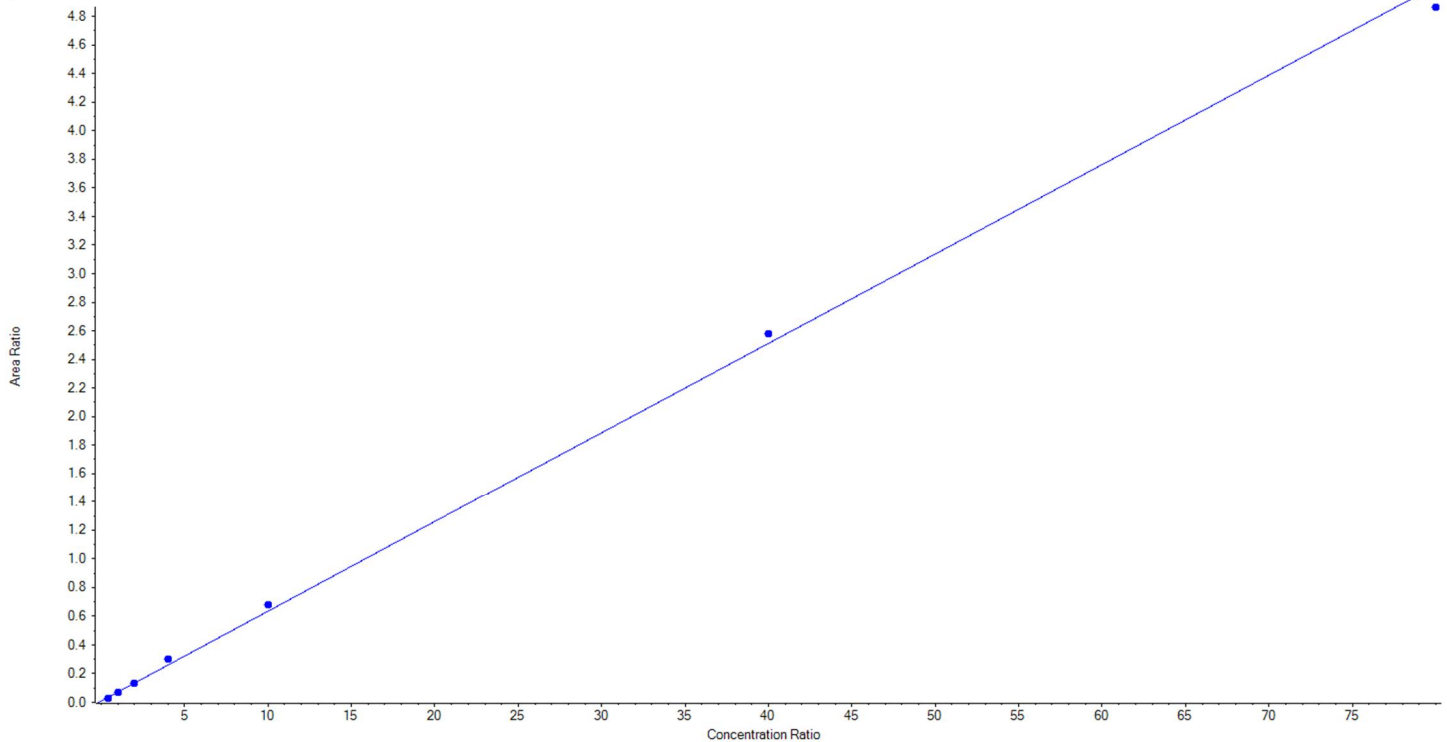
## Calibration Summary Report

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<b>Analyte Name</b>	PFTrDA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	663.0 / 169.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.06256 x + 0.00941$  ( $r = 0.99887$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	78.198175	78.2
3	KB74	L2	True	250.00	247.986856	99.2
4	KB75	L3	True	500.00	495.036348	99.0
5	KB76	L4	True	1000.00	1164.067670	116.4
6	KB77	L5	True	2500.00	2684.712399	107.4
7	KB78	L6	True	10000.00	10280.911529	102.8
8	KB79	L7	True	20000.00	19399.087023	97.0





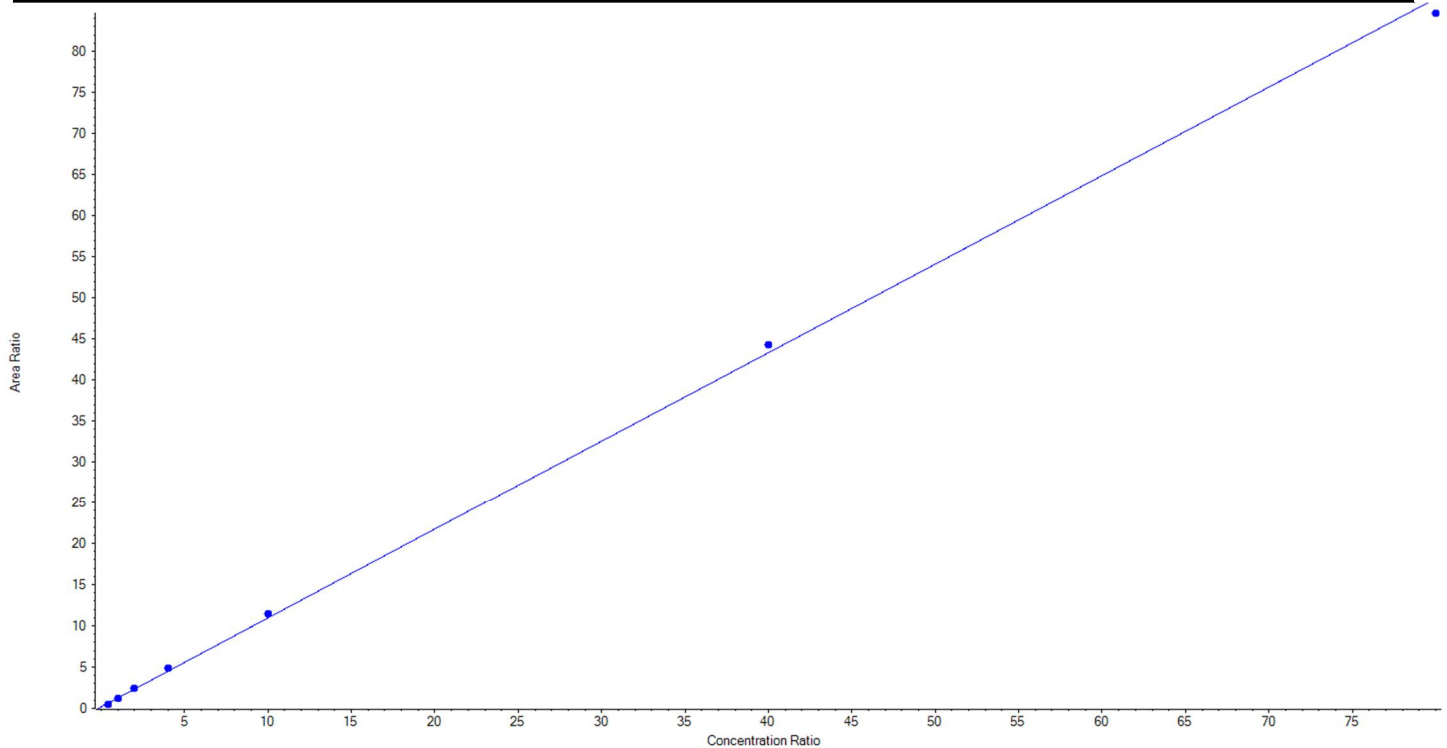
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<b>Analyte Name</b>	PFTeDA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	713.0 / 669.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.07817x + 0.18334$  ( $r = 0.99951$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	81.728327	81.7
3	KB74	L2	True	250.00	253.645310	101.5
4	KB75	L3	True	500.00	515.154084	103.0
5	KB76	L4	True	1000.00	1095.645152	109.6
6	KB77	L5	True	2500.00	2603.218162	104.1
7	KB78	L6	True	10000.00	10217.289136	102.2
8	KB79	L7	True	20000.00	19583.319829	97.9





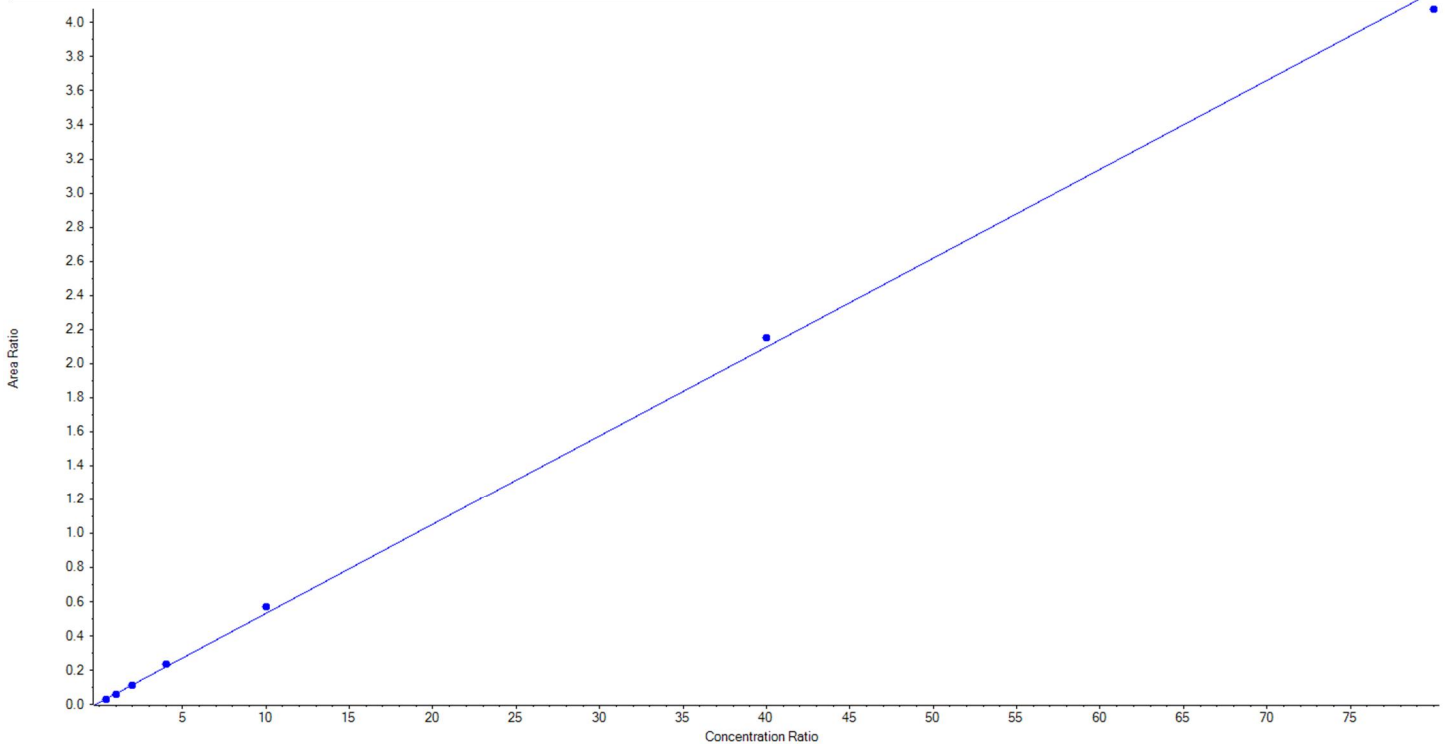
## Calibration Summary Report

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<b>Analyte Name</b>	PFTeDA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	713.0 / 169.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.05216 x + 0.01003$  ( $r = 0.99933$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	89.886117	89.9
3	KB74	L2	True	250.00	238.937138	95.6
4	KB75	L3	True	500.00	490.005825	98.0
5	KB76	L4	True	1000.00	1092.239213	109.2
6	KB77	L5	True	2500.00	2680.771848	107.2
7	KB78	L6	True	10000.00	10258.453725	102.6
8	KB79	L7	True	20000.00	19499.706134	97.5





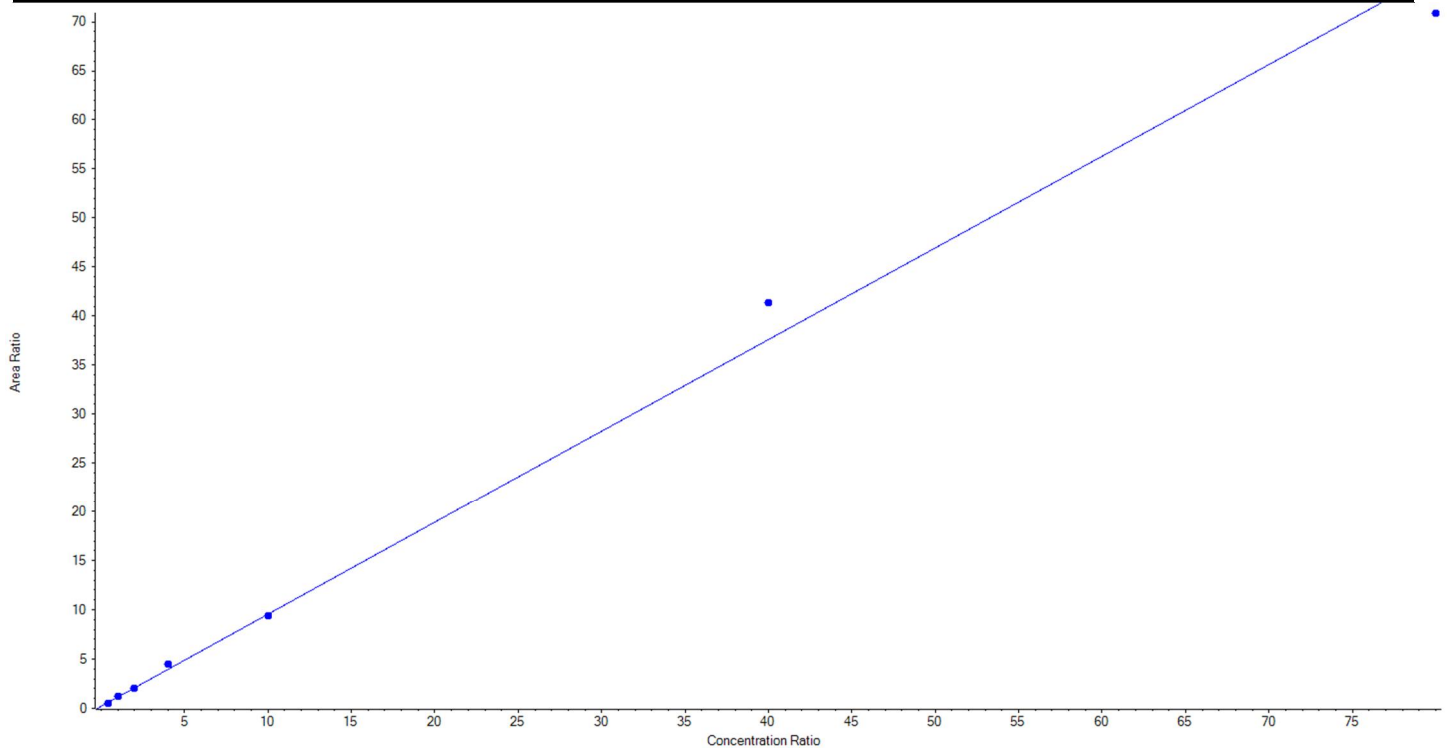
## Calibration Summary Report

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<b>Analyte Name</b>	NMeFOSAA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	570.0 / 419.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	d3-MeFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.93472x + 0.21431$  ( $r = 0.99704$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	75.824991	75.8
3	KB74	L2	True	250.00	268.876365	107.6
4	KB75	L3	True	500.00	500.524214	100.1
5	KB76	L4	True	1000.00	1133.404189	113.3
6	KB77	L5	True	2500.00	2465.257046	98.6
7	KB78	L6	True	10000.00	11007.670601	110.1
8	KB79	L7	True	20000.00	18898.442593	94.5





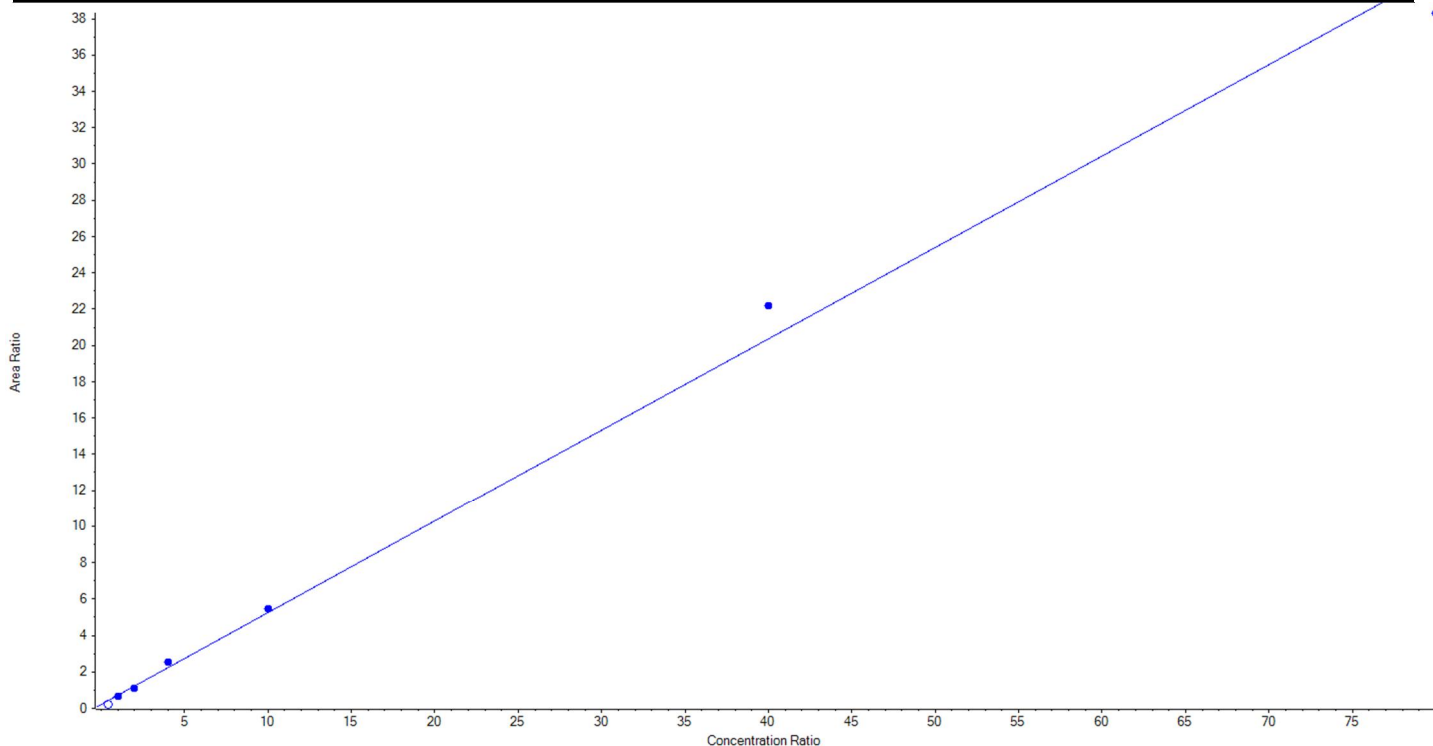
Calibration Summary Report

Created with Analyst Reporter  
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<b>Analyte Name</b>	NMeFOSAA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	570.0 / 512.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	d3-MeFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.50367 x + 0.21759$  ( $r = 0.99687$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	False	100.00	3.453918	3.5
3	KB74	L2	True	250.00	218.419800	87.4
4	KB75	L3	True	500.00	439.990383	88.0
5	KB76	L4	True	1000.00	1163.925478	116.4
6	KB77	L5	True	2500.00	2616.439396	104.7
7	KB78	L6	True	10000.00	10905.550987	109.1
8	KB79	L7	True	20000.00	18905.673956	94.5





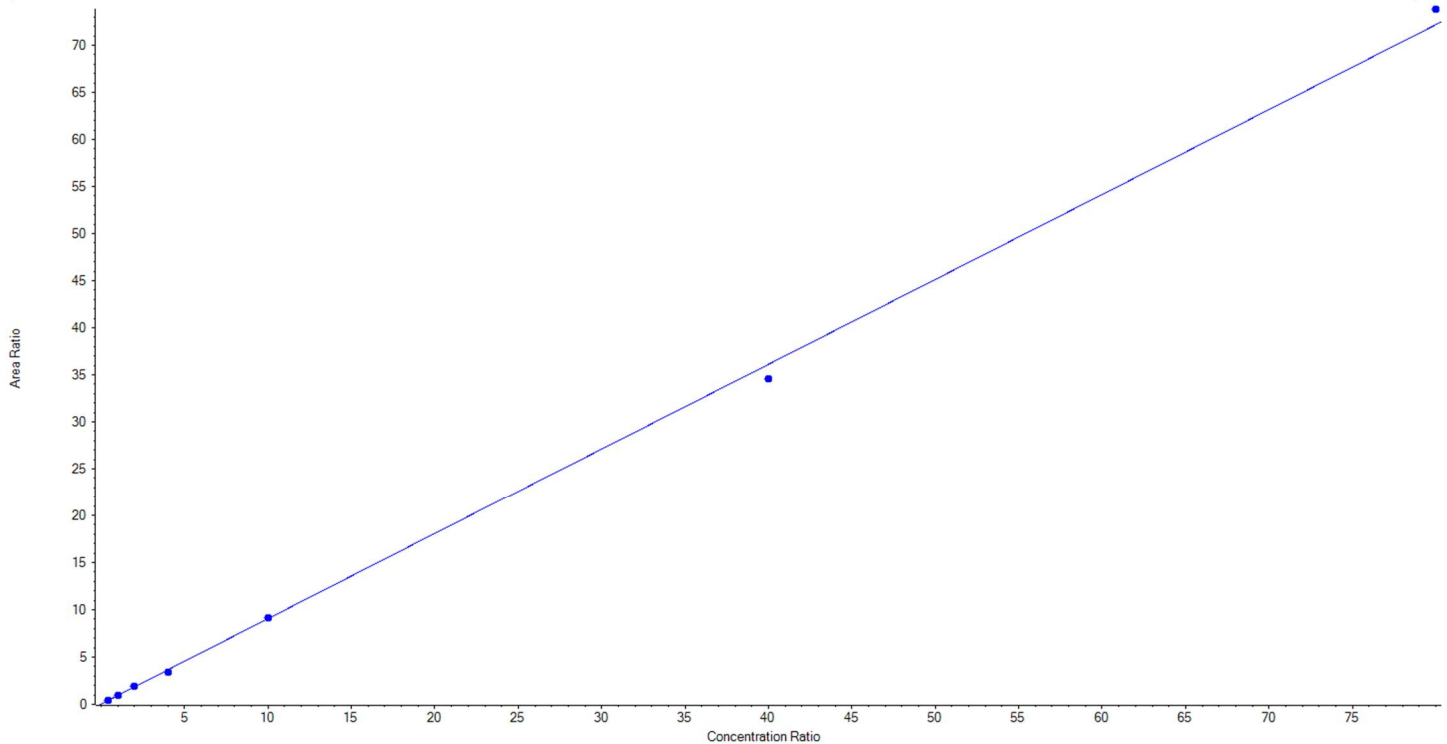
## Calibration Summary Report

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<b>Analyte Name</b>	NEtFOSAA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	584.0 / 419.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	d5-EtFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.90168x + 0.04836$  ( $r = 0.99948$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	104.771450	104.8
3	KB74	L2	True	250.00	251.018896	100.4
4	KB75	L3	True	500.00	508.056535	101.6
5	KB76	L4	True	1000.00	943.782521	94.4
6	KB77	L5	True	2500.00	2522.760733	100.9
7	KB78	L6	True	10000.00	9564.590700	95.7
8	KB79	L7	True	20000.00	20455.019164	102.3





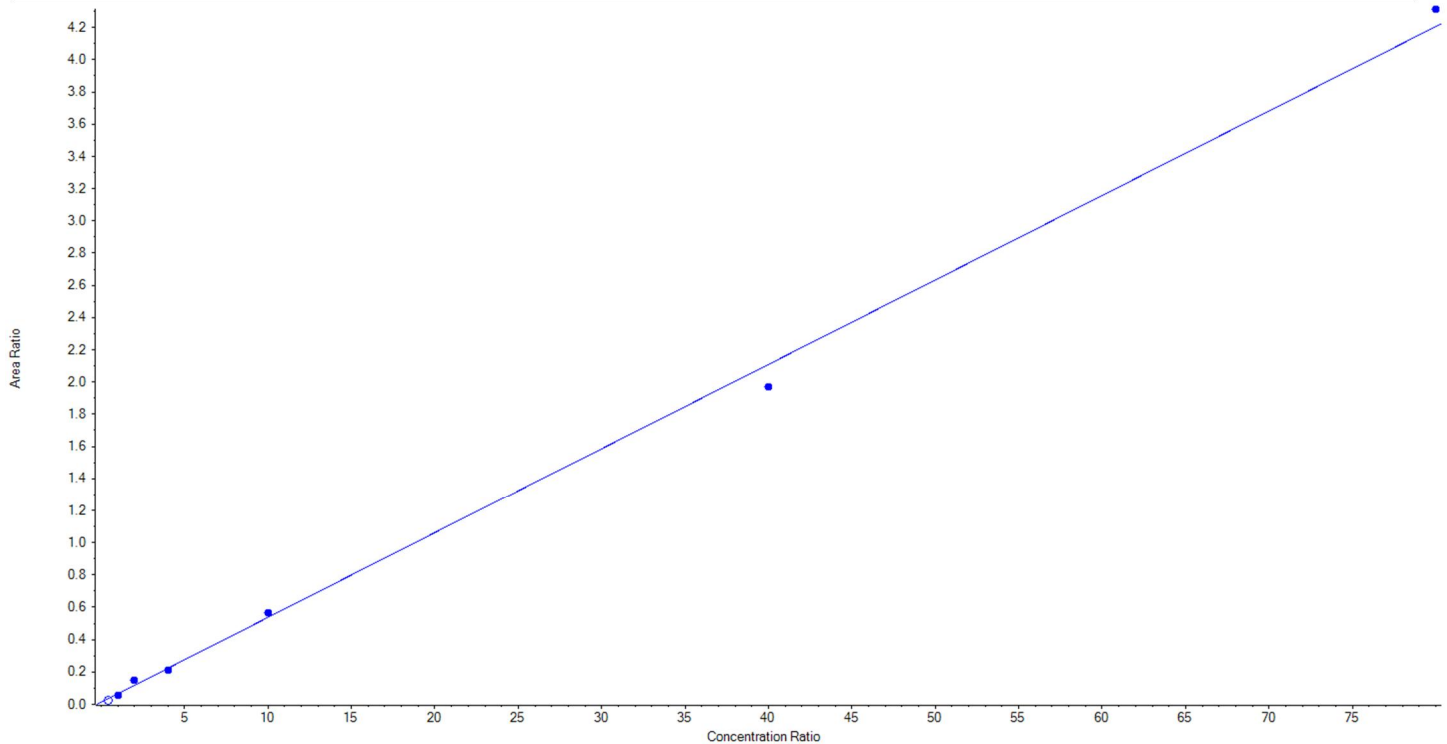
## Calibration Summary Report

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<b>Analyte Name</b>	NEtFOSAA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	584.0 / 483.0	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Internal Standard</b>	d5-EtFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.05241 x + 0.01326$  ( $r = 0.99796$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	False	100.00	41.412646	41.4
3	KB74	L2	True	250.00	191.667209	76.7
4	KB75	L3	True	500.00	637.470069	127.5
5	KB76	L4	True	1000.00	945.207707	94.5
6	KB77	L5	True	2500.00	2637.389496	105.5
7	KB78	L6	True	10000.00	9326.284871	93.3
8	KB79	L7	True	20000.00	20511.980648	102.6







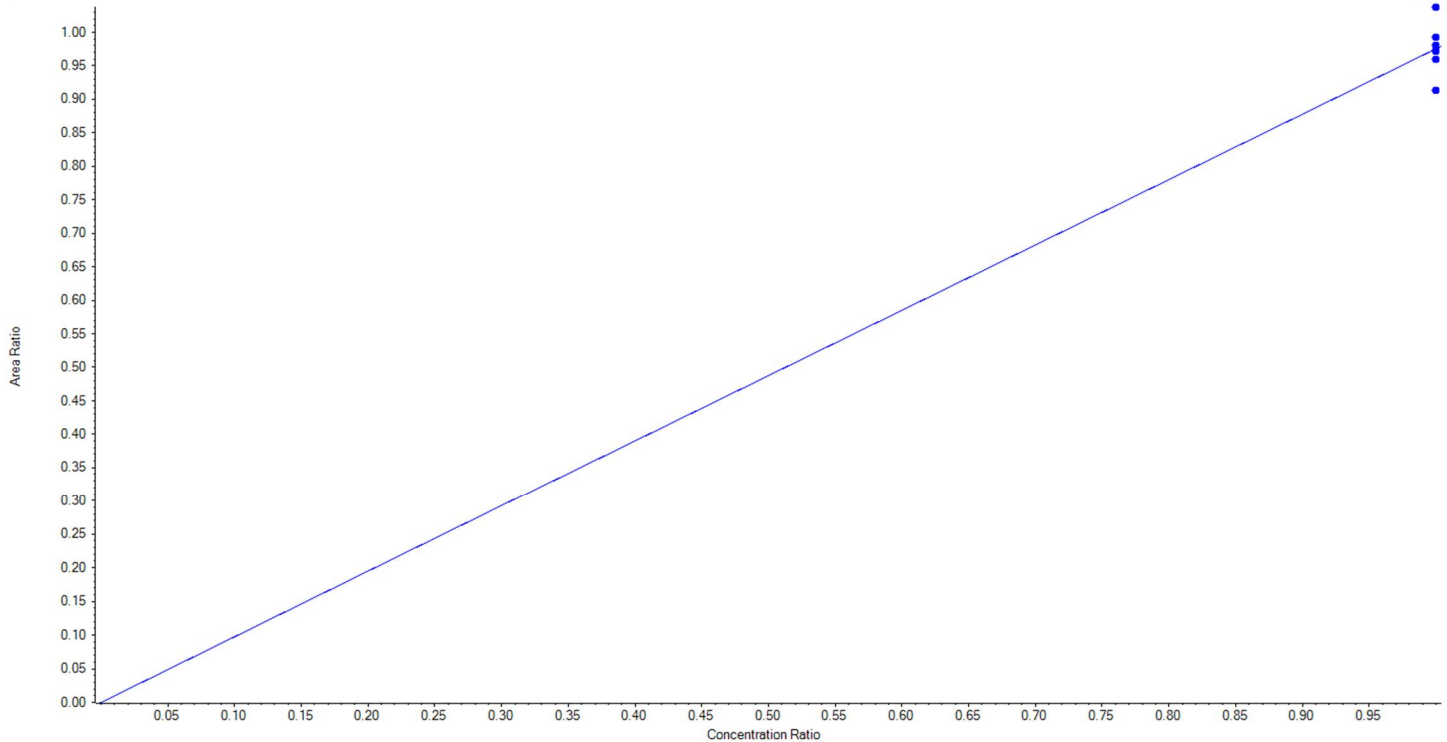
## Calibration Summary Report

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<b>Analyte Name</b>	13C2-PFDoA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	615.0 / 570.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.97505 x$  (std. dev. = 0.03727) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	234.027671	93.6
3	KB74	L2	True	250.00	265.932266	106.4
4	KB75	L3	True	250.00	249.447374	99.8
5	KB76	L4	True	250.00	245.945631	98.4
6	KB77	L5	True	250.00	248.975274	99.6
7	KB78	L6	True	250.00	251.235272	100.5
8	KB79	L7	True	250.00	254.436513	101.8





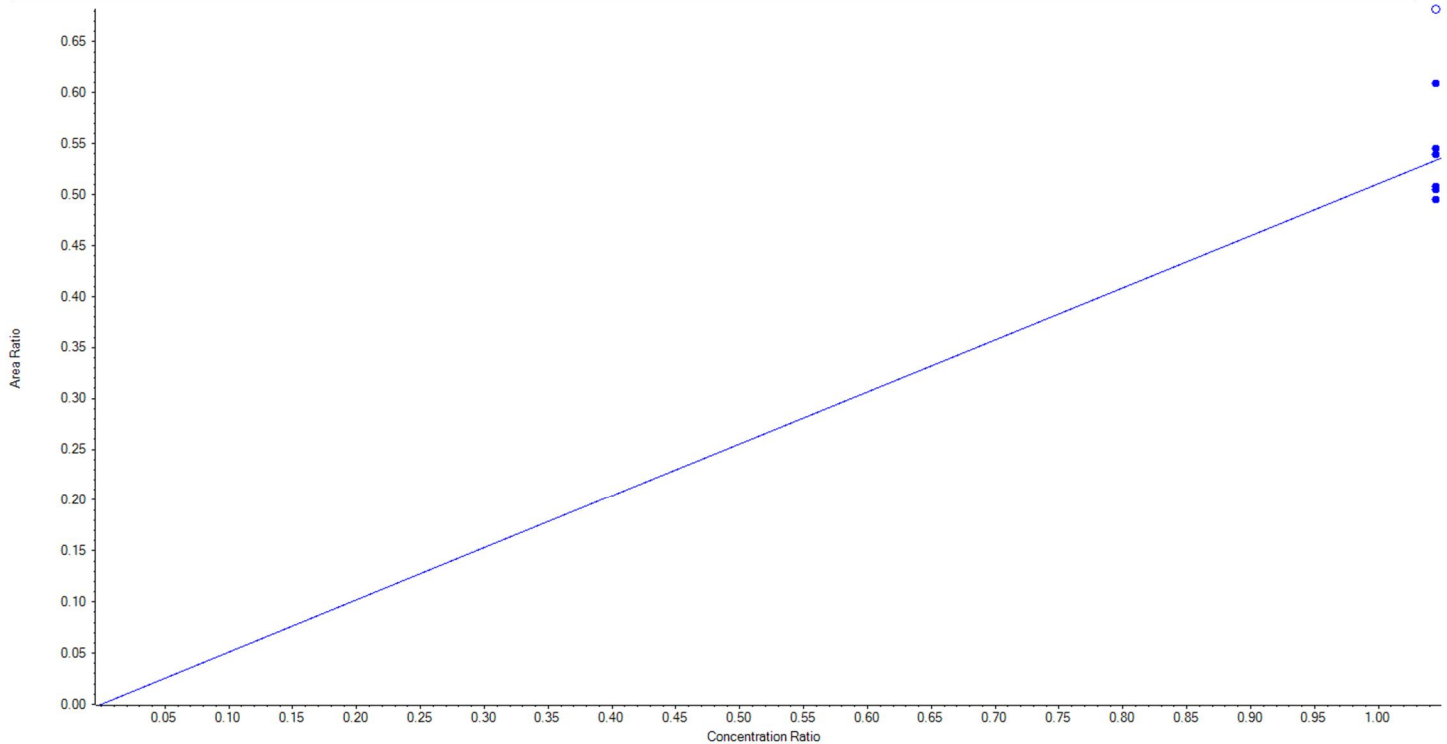
## Calibration Summary Report

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<b>Analyte Name</b>	d3-MeFOSAA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	573.0 / 419.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.51076 x$  (std. dev. = 0.04023) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	252.745204	101.1
3	KB74	L2	True	250.00	237.867686	95.2
4	KB75	L3	True	250.00	255.434971	102.2
5	KB76	L4	True	250.00	232.186572	92.9
6	KB77	L5	True	250.00	236.383719	94.6
7	KB78	L6	True	250.00	285.381847	114.2
8	KB79	L7	False	250.00	319.413436	127.8





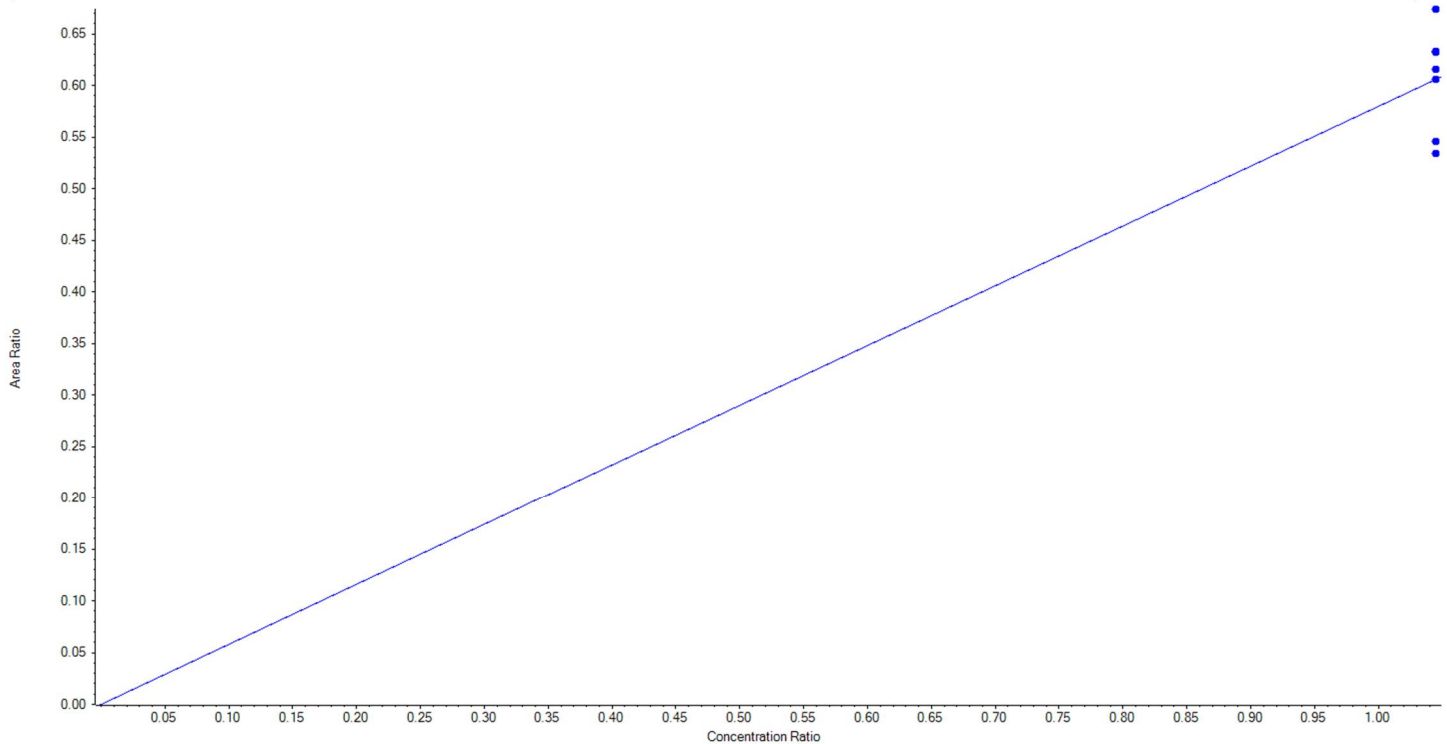
## Calibration Summary Report

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<b>Analyte Name</b>	d5-EtFOSAA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	589.0 / 419.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.57975 x$  (std. dev. = 0.04771) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	261.116785	104.5
3	KB74	L2	True	250.00	260.842878	104.3
4	KB75	L3	True	250.00	225.192349	90.1
5	KB76	L4	True	250.00	254.251713	101.7
6	KB77	L5	True	250.00	220.425706	88.2
7	KB78	L6	True	250.00	278.106701	111.2
8	KB79	L7	True	250.00	250.063868	100.0





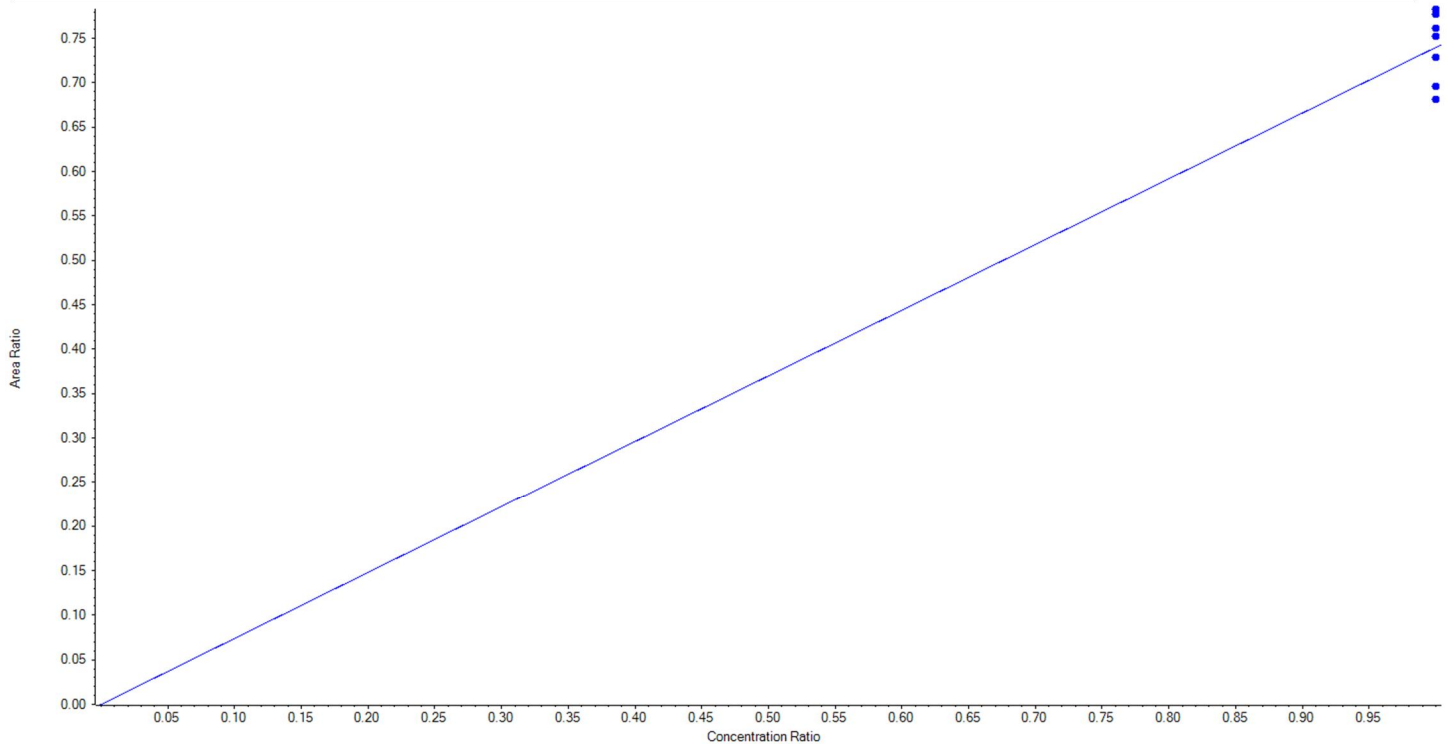
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<b>Analyte Name</b>	13C5-PFHxA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	318.0 / 273.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.73994 x$  (std. dev. = 0.03937) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	262.567314	105.0
3	KB74	L2	True	250.00	254.187234	101.7
4	KB75	L3	True	250.00	230.325952	92.1
5	KB76	L4	True	250.00	235.058052	94.0
6	KB77	L5	True	250.00	257.145365	102.9
7	KB78	L6	True	250.00	264.503275	105.8
8	KB79	L7	True	250.00	246.212808	98.5





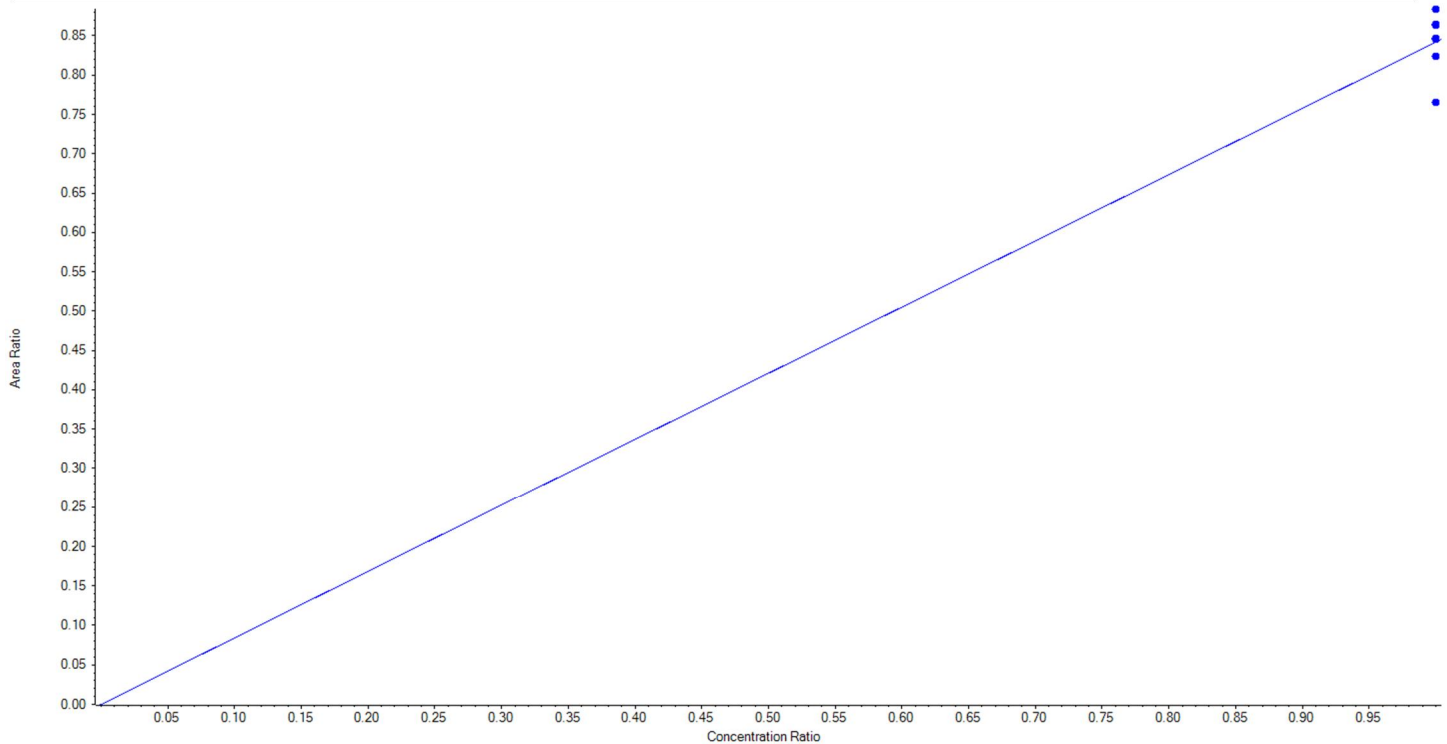
## Calibration Summary Report

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<b>Analyte Name</b>	13C4-PFHpA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	367.0 / 322.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.84182 x$  (std. dev. = 0.03866) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	262.427043	105.0
3	KB74	L2	True	250.00	251.075240	100.4
4	KB75	L3	True	250.00	244.763156	97.9
5	KB76	L4	True	250.00	256.507439	102.6
6	KB77	L5	True	250.00	256.669677	102.7
7	KB78	L6	True	250.00	251.342992	100.5
8	KB79	L7	True	250.00	227.214453	90.9





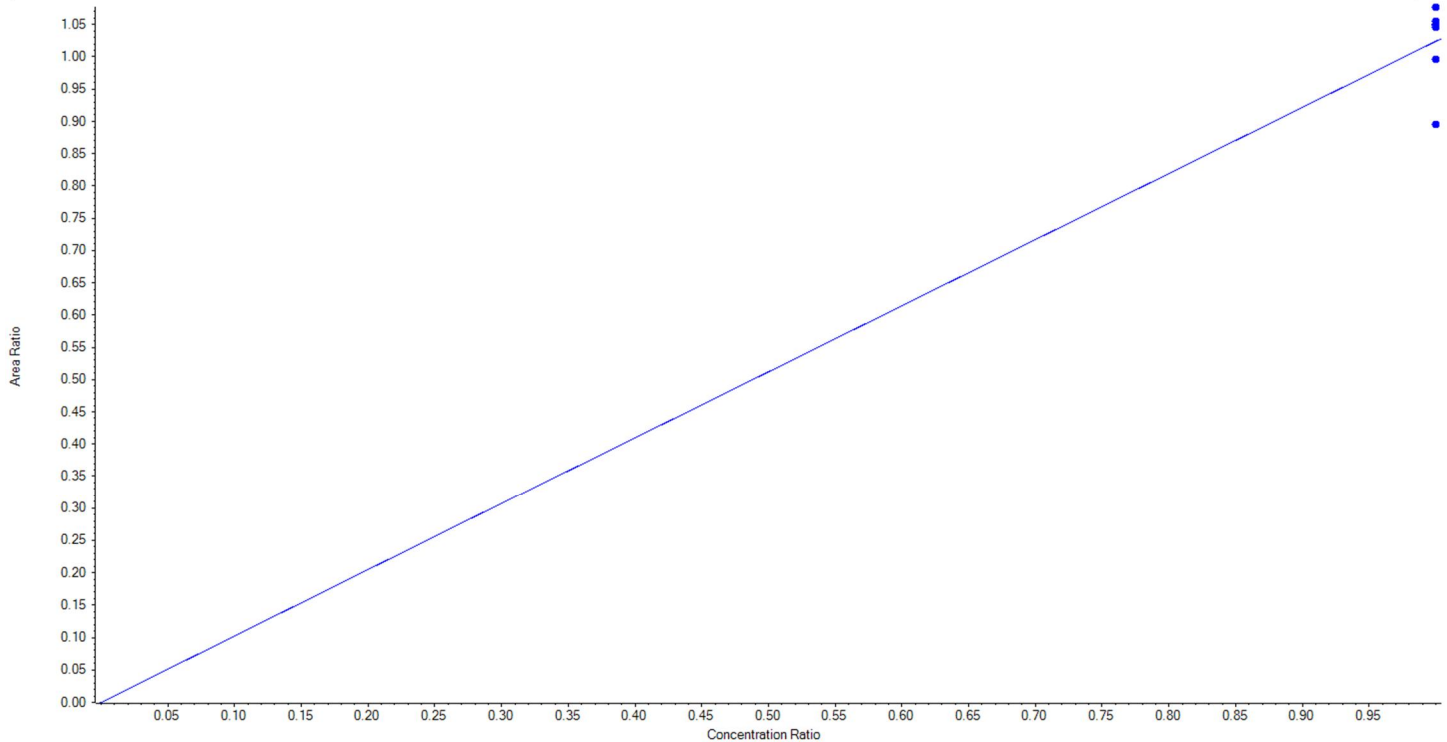
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C8-PFOA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	421.0 / 376.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.02405 x$  (std. dev. = 0.06175) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	255.212785	102.1
3	KB74	L2	True	250.00	262.875155	105.2
4	KB75	L3	True	250.00	256.482263	102.6
5	KB76	L4	True	250.00	257.662297	103.1
6	KB77	L5	True	250.00	256.019871	102.4
7	KB78	L6	True	250.00	243.157749	97.3
8	KB79	L7	True	250.00	218.589880	87.4





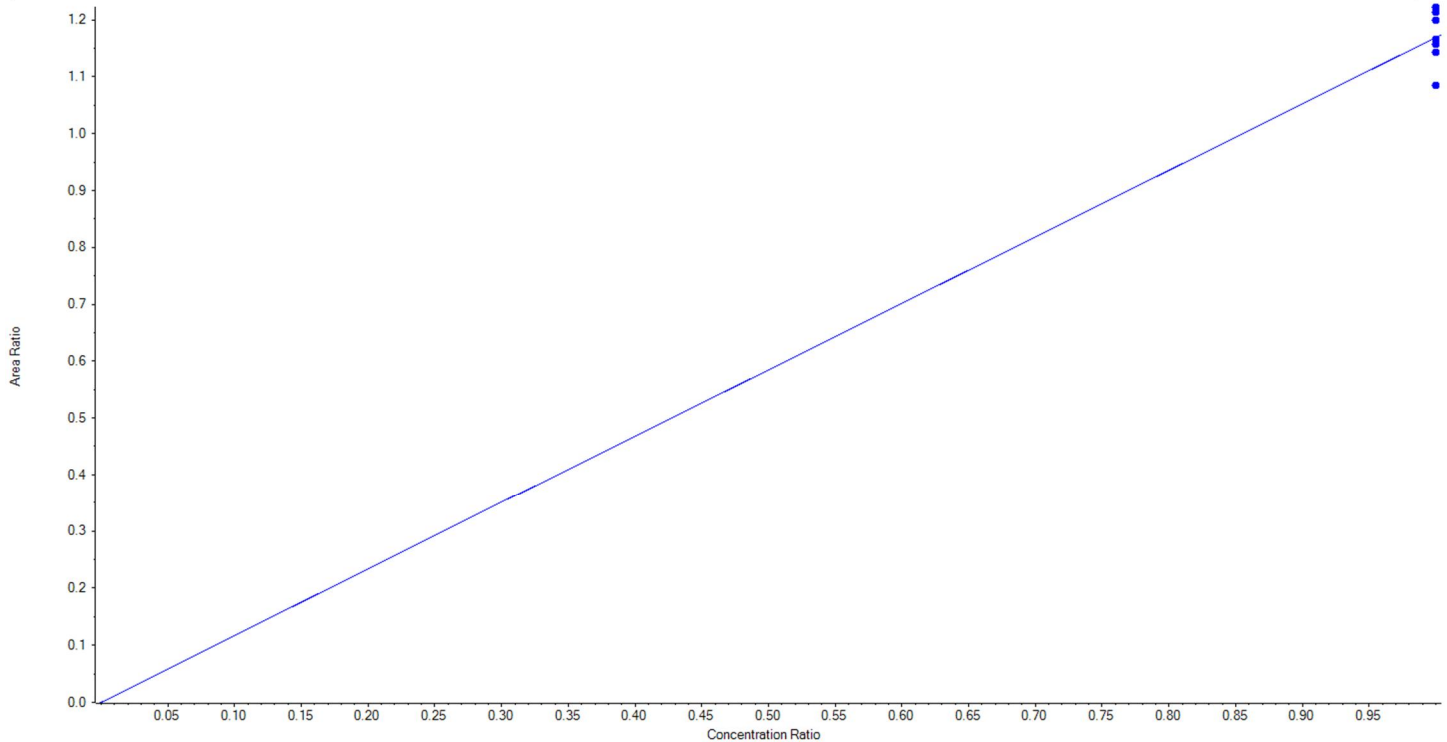
## Calibration Summary Report

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Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C9-PFNA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	472.0 / 427.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.16930 x$  (std. dev. = 0.04759) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	247.430463	99.0
3	KB74	L2	True	250.00	261.328420	104.5
4	KB75	L3	True	250.00	259.384215	103.8
5	KB76	L4	True	250.00	244.372857	97.8
6	KB77	L5	True	250.00	249.179395	99.7
7	KB78	L6	True	250.00	256.344825	102.5
8	KB79	L7	True	250.00	231.959824	92.8





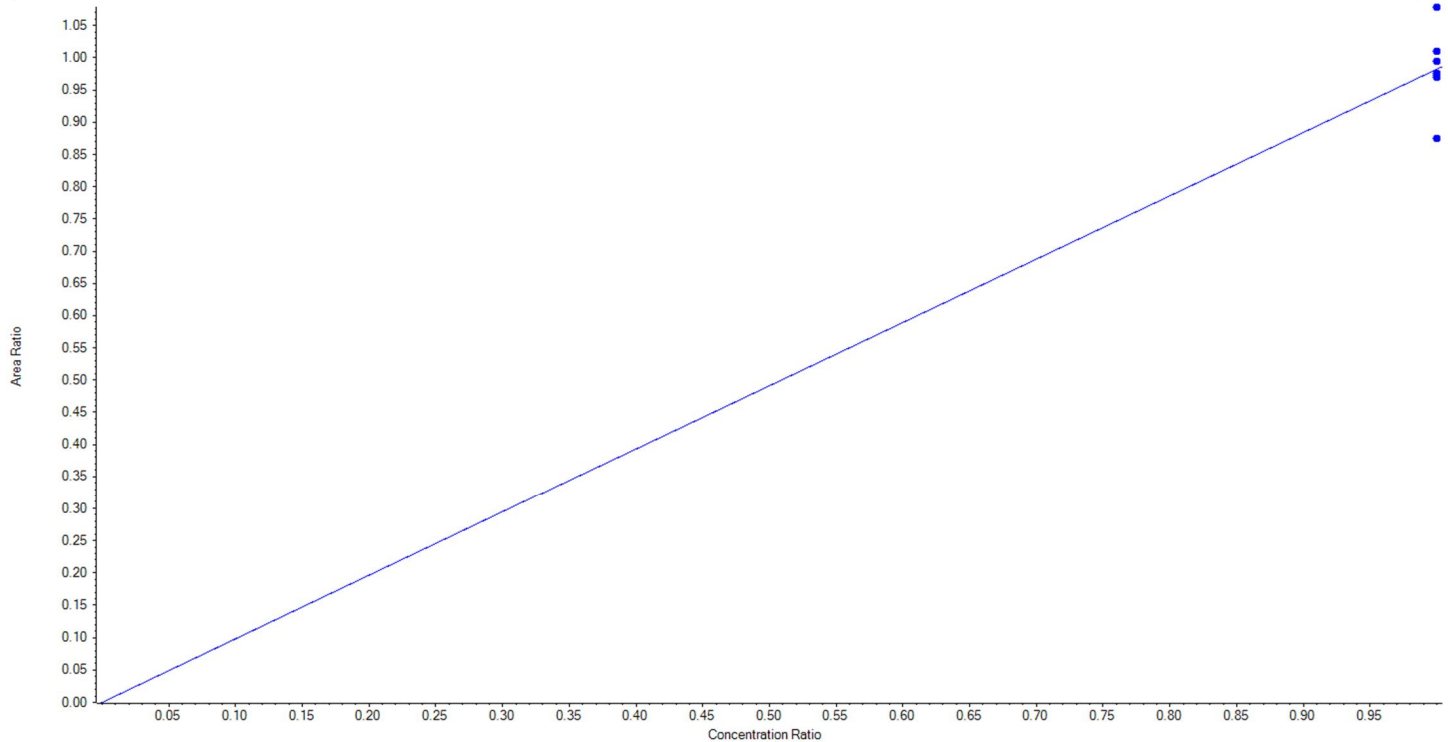
## Calibration Summary Report

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Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C6-PFDA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	519.0 / 474.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.98235 x$  (std. dev. = 0.06079) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	246.733475	98.7
3	KB74	L2	True	250.00	253.248818	101.3
4	KB75	L3	True	250.00	257.192135	102.9
5	KB76	L4	True	250.00	248.450649	99.4
6	KB77	L5	True	250.00	274.445566	109.8
7	KB78	L6	True	250.00	247.435316	99.0
8	KB79	L7	True	250.00	222.494042	89.0







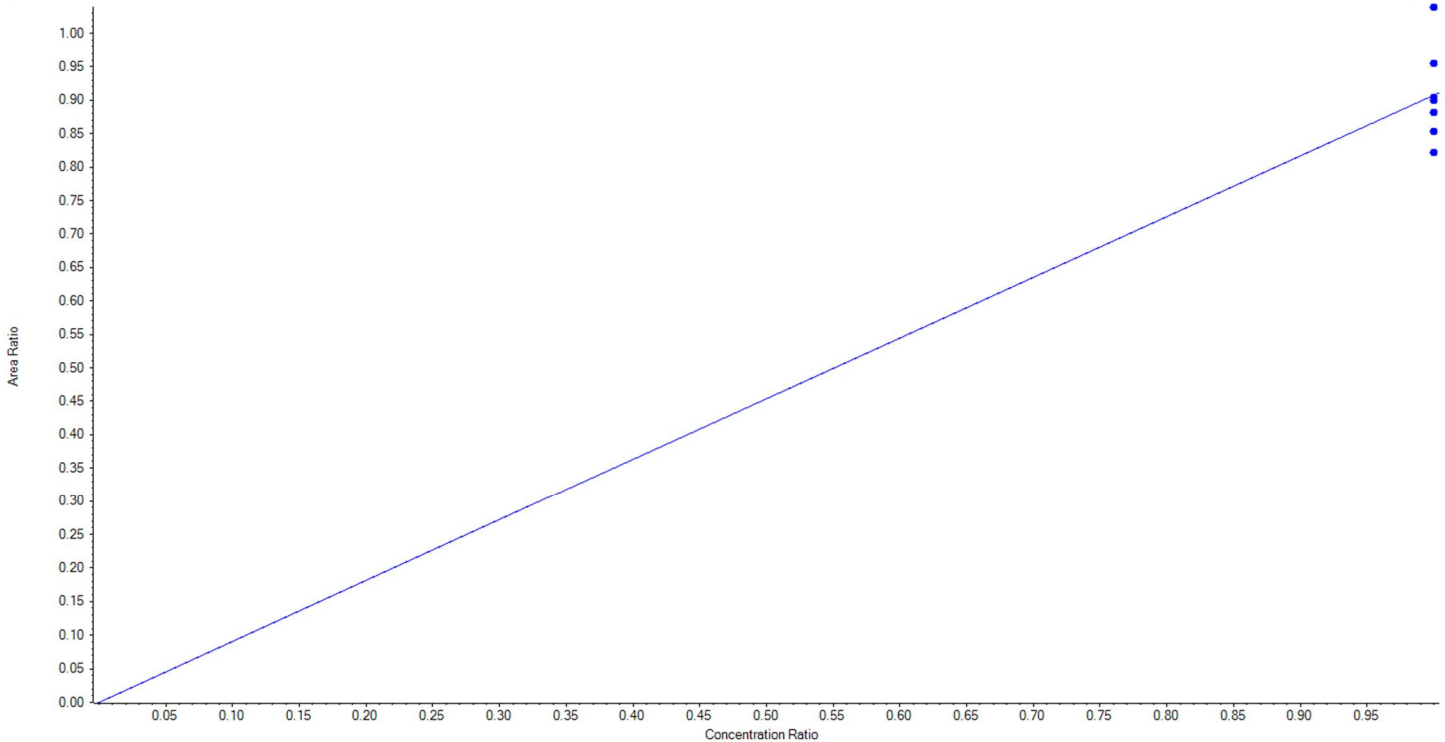
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C7-PFUnA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	570.0 / 525.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.90743 x$  (std. dev. = 0.07148) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	247.760751	99.1
3	KB74	L2	True	250.00	262.960755	105.2
4	KB75	L3	True	250.00	286.201660	114.5
5	KB76	L4	True	250.00	234.954208	94.0
6	KB77	L5	True	250.00	249.135582	99.7
7	KB78	L6	True	250.00	242.726450	97.1
8	KB79	L7	True	250.00	226.260594	90.5





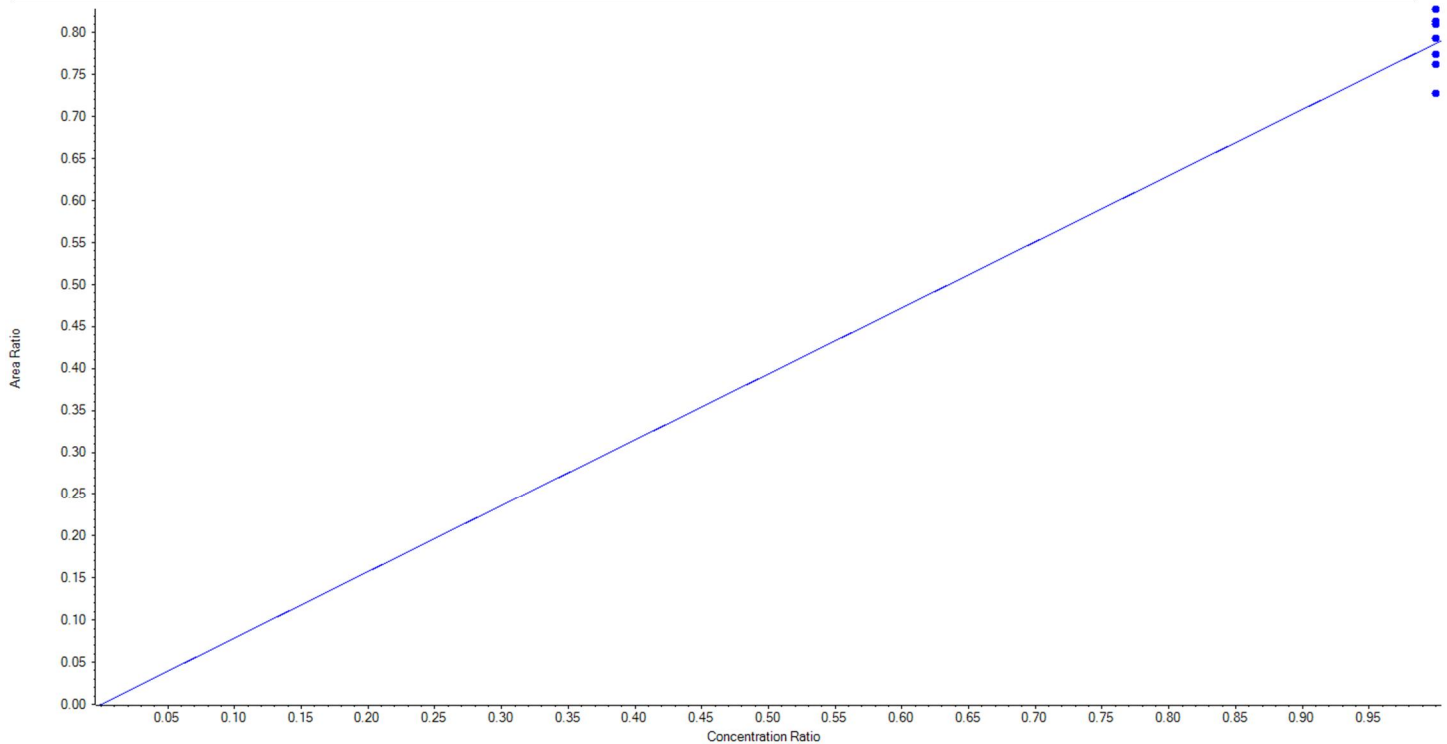
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C2-PFTeDA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	715.0 / 670.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.78723 x$  (std. dev. = 0.03476) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	242.249601	96.9
3	KB74	L2	True	250.00	262.922814	105.2
4	KB75	L3	True	250.00	245.975733	98.4
5	KB76	L4	True	250.00	231.048930	92.4
6	KB77	L5	True	250.00	252.097071	100.8
7	KB78	L6	True	250.00	258.482884	103.4
8	KB79	L7	True	250.00	257.222966	102.9





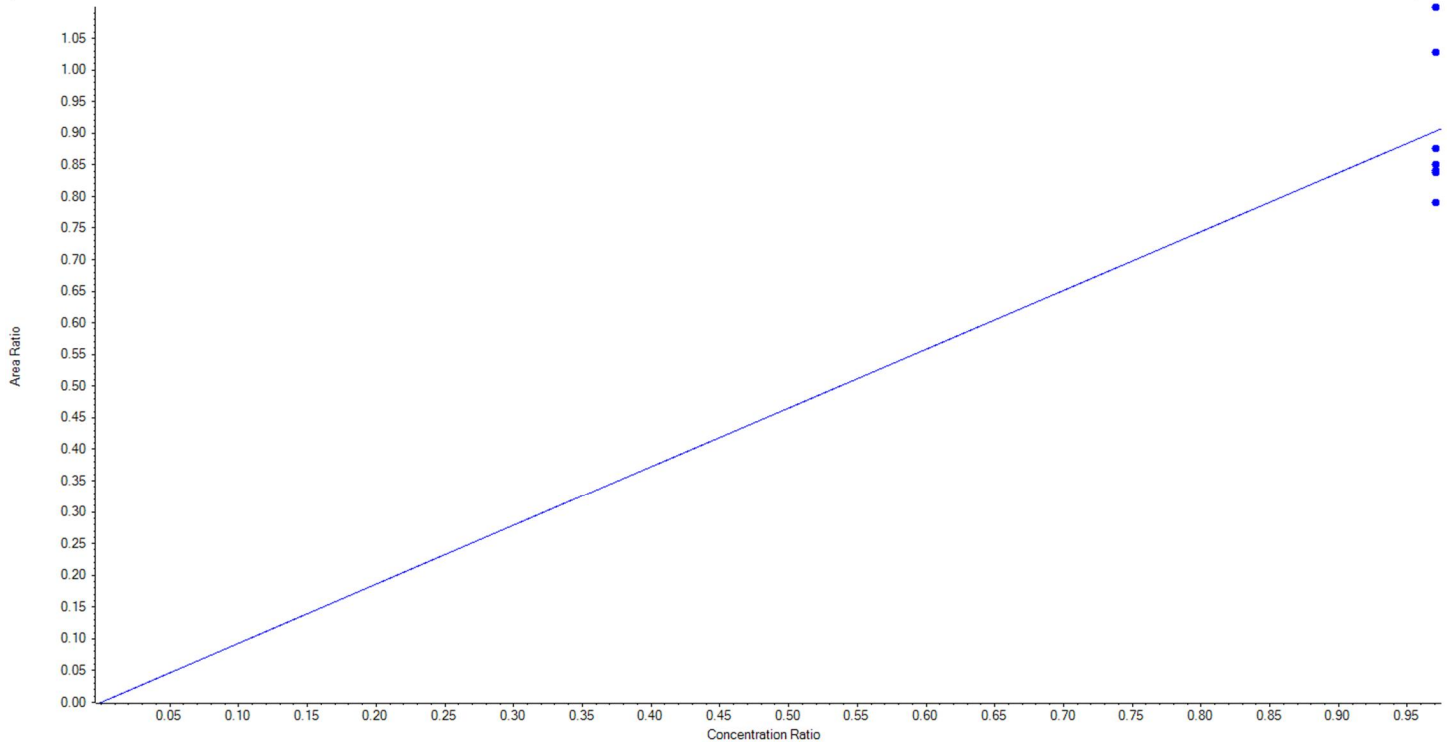
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C3-PFBS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	302.0 / 99.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.93048 x$  (std. dev. = 0.11752) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	232.25	225.022462	96.9
3	KB74	L2	True	232.25	215.609121	92.8
4	KB75	L3	True	232.25	218.748838	94.2
5	KB76	L4	True	232.25	203.233433	87.5
6	KB77	L5	True	232.25	216.348971	93.2
7	KB78	L6	True	232.25	264.163371	113.7
8	KB79	L7	True	232.25	282.623804	121.7





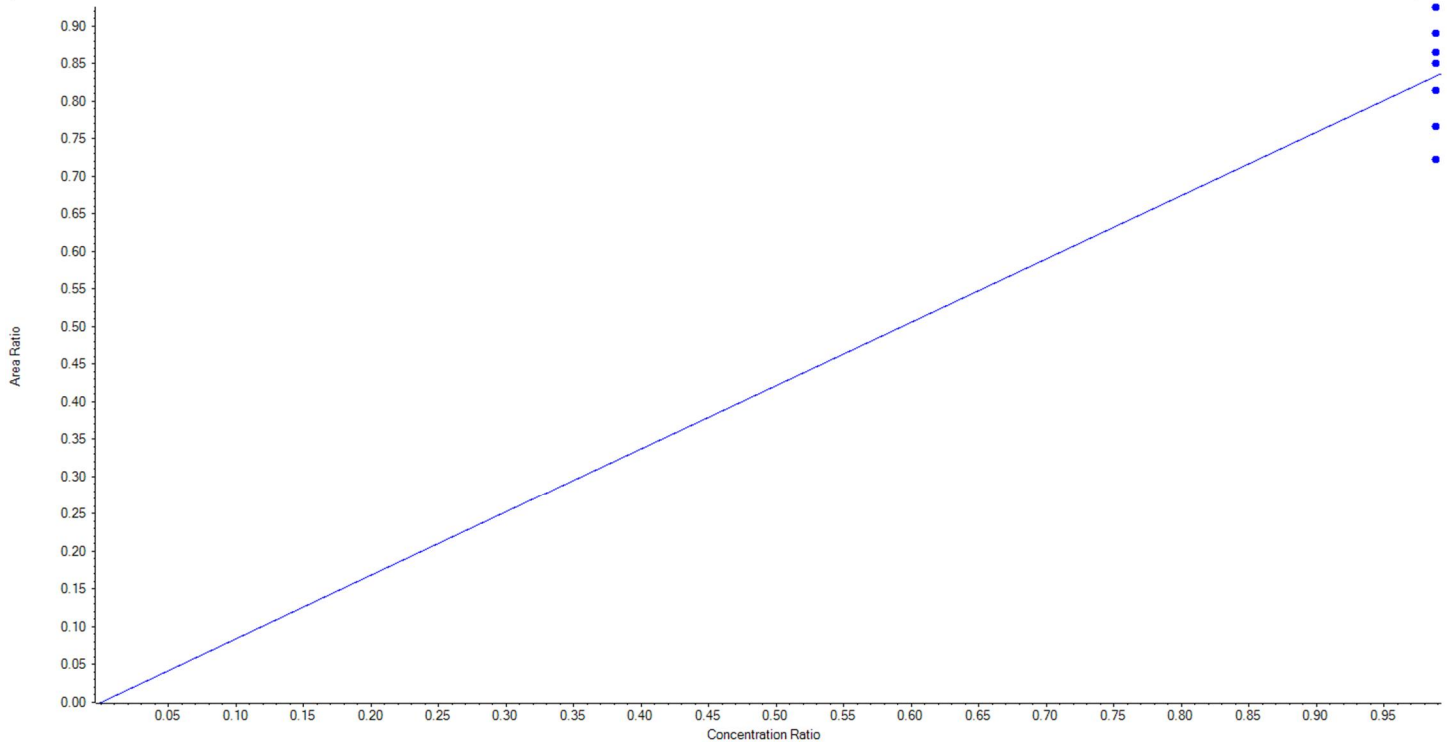
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C3-PFHxS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	402.0 / 99.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.84316 x$  (std. dev. = 0.07172) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	236.50	231.144826	97.7
3	KB74	L2	True	236.50	241.172849	102.0
4	KB75	L3	True	236.50	245.474666	103.8
5	KB76	L4	True	236.50	217.481590	92.0
6	KB77	L5	True	236.50	204.966129	86.7
7	KB78	L6	True	236.50	262.529838	111.0
8	KB79	L7	True	236.50	252.730102	106.9





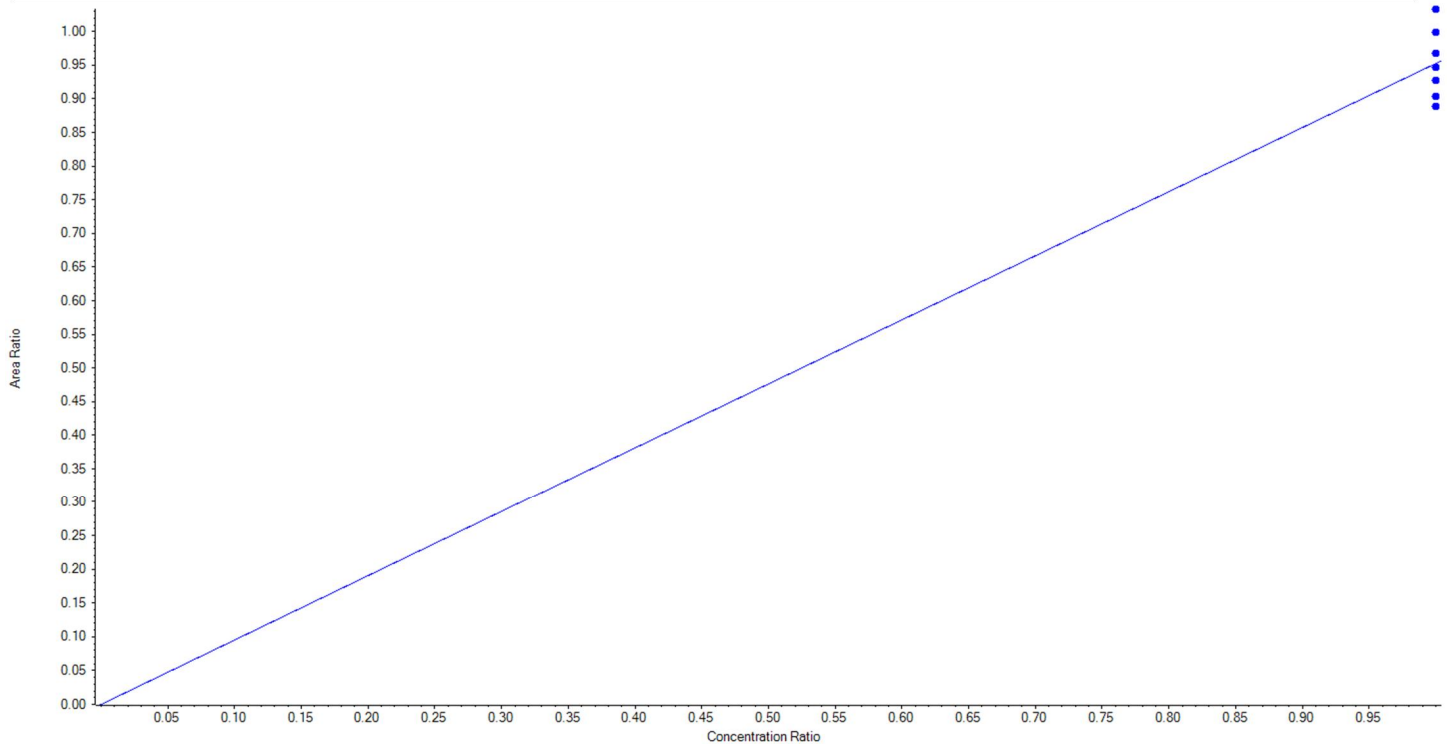
## Calibration Summary Report

Created with Analyst Reporter  
Printed: 24/10/2018 1:09:45 PM

<b>Analyte Name</b>	13C8-PFOS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	507.0 / 99.0	<b>Result Table</b>	18-0610_18-0611_SIS
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.95250 x$  (std. dev. = 0.05159) (weighting: 1 / x)

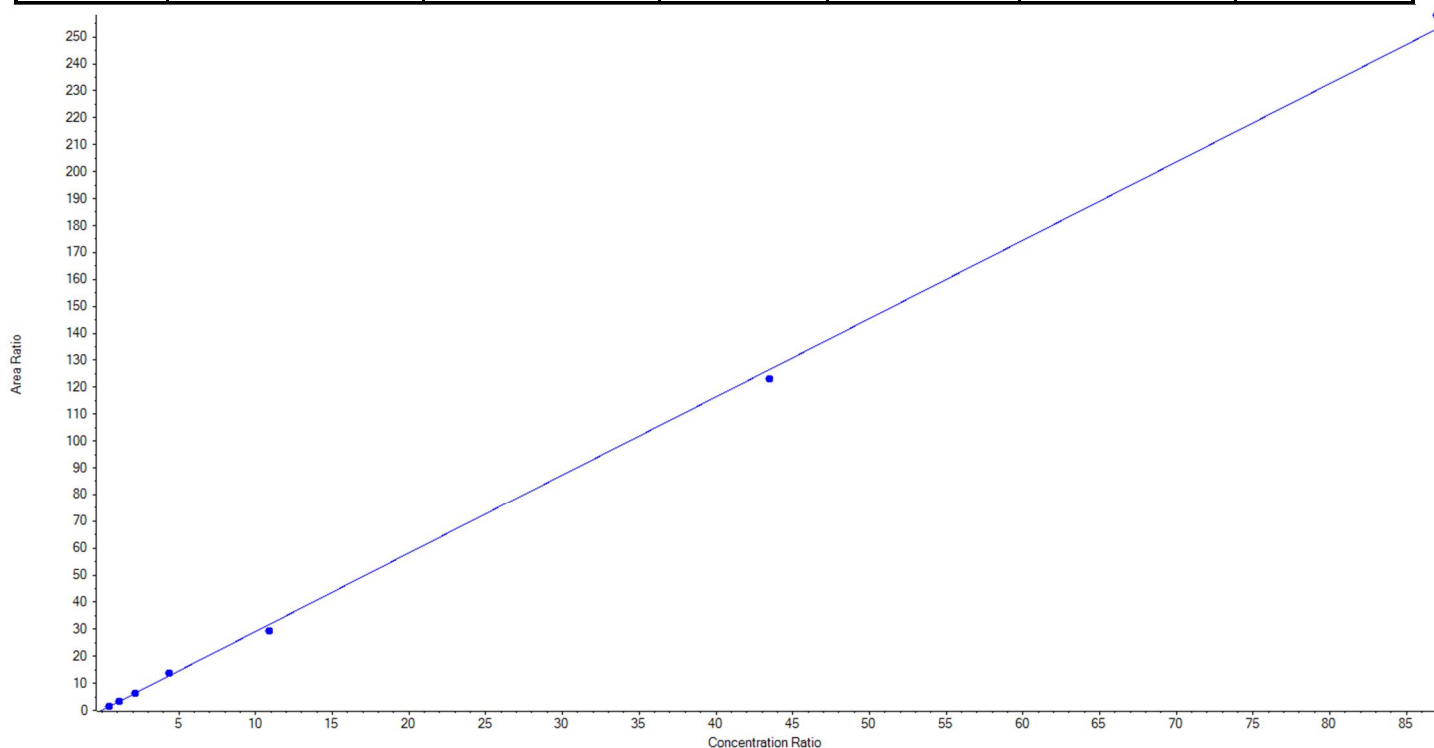
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	239.25	250.871078	104.9
3	KB74	L2	True	239.25	243.225761	101.7
4	KB75	L3	True	239.25	223.367998	93.4
5	KB76	L4	True	239.25	233.089271	97.4
6	KB77	L5	True	239.25	226.800752	94.8
7	KB78	L6	True	239.25	259.494294	108.5
8	KB79	L7	True	239.25	237.900846	99.4



<b>Analyte Name</b>	PFBS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	298.9 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C3-PFBS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 2.90746 x + 0.06970$  ( $r = 0.99940$ ) (weighting:  $1 / x$ )

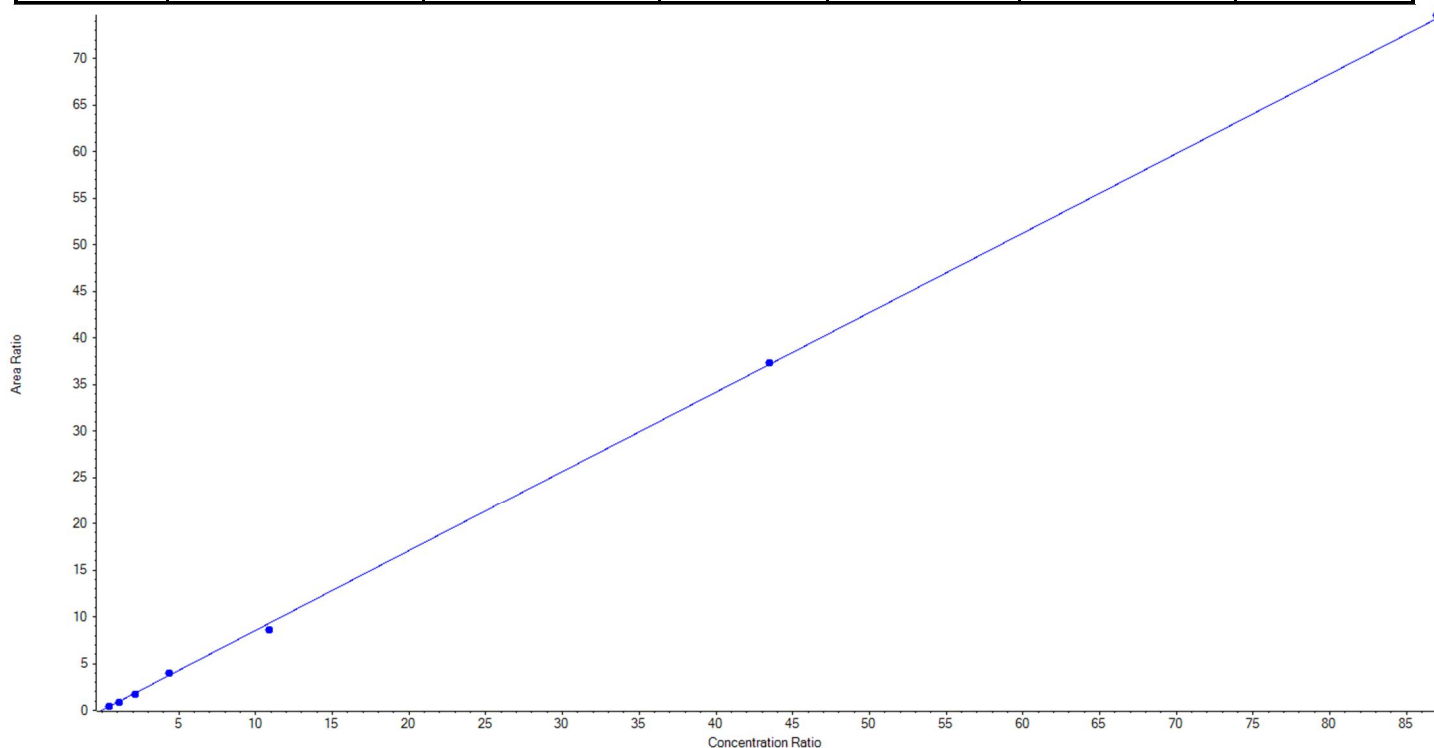
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	104.635578	103.6
3	KB74	L2	True	252.50	249.370464	98.8
4	KB75	L3	True	505.00	495.098560	98.0
5	KB76	L4	True	1010.00	1091.288759	108.1
6	KB77	L5	True	2525.00	2332.691625	92.4
7	KB78	L6	True	10100.00	9811.581725	97.1
8	KB79	L7	True	20200.00	20608.833290	102.0



<b>Analyte Name</b>	PFBS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	298.9 / 99.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C3-PFBS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.85386 x + 0.01367$  (r = 0.99964) (weighting: 1 / x)

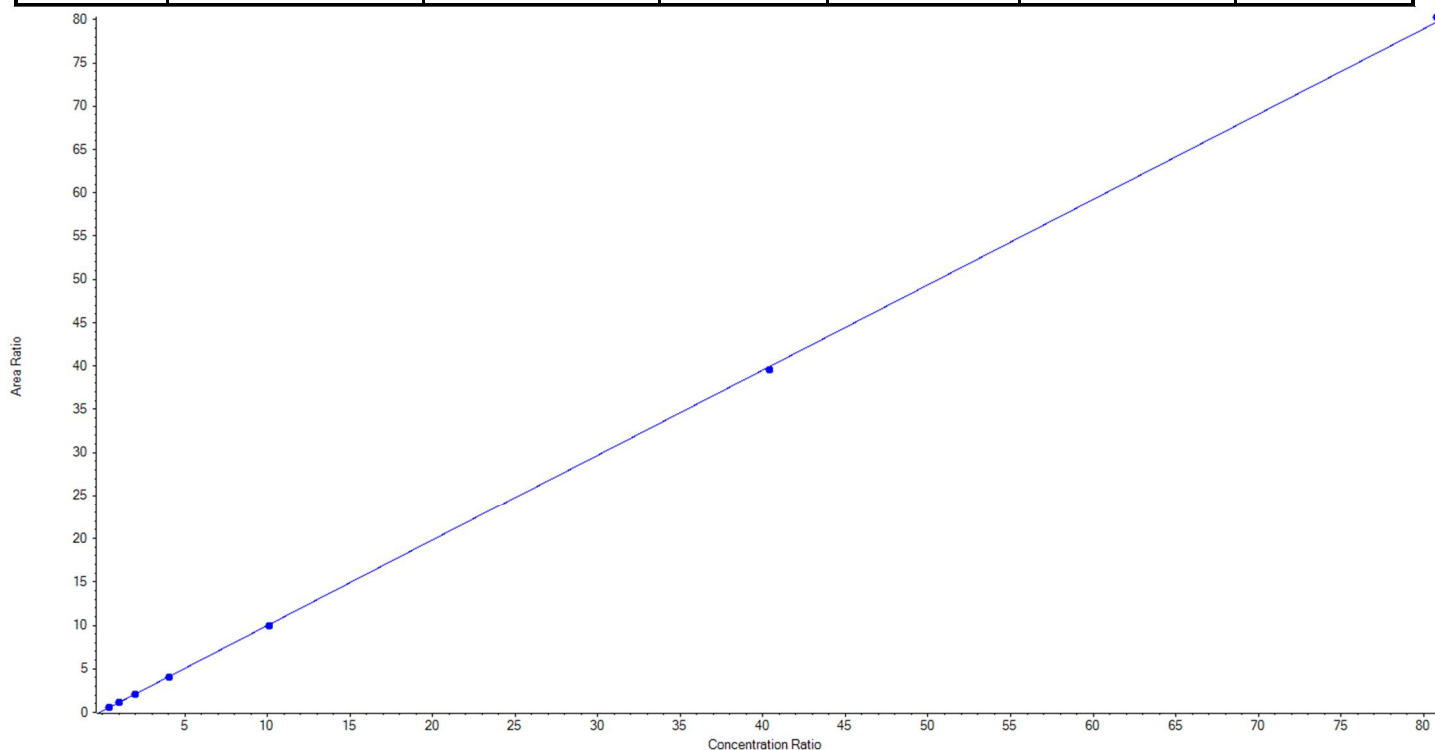
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	109.976962	108.9
3	KB74	L2	True	252.50	242.180085	95.9
4	KB75	L3	True	505.00	475.121472	94.1
5	KB76	L4	True	1010.00	1086.381545	107.6
6	KB77	L5	True	2525.00	2339.199841	92.6
7	KB78	L6	True	10100.00	10143.472130	100.4
8	KB79	L7	True	20200.00	20297.167965	100.5



<b>Analyte Name</b>	PFHxA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	313.0 / 269.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C5-PFHxA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.98501 x + 0.13333$  ( $r = 0.99994$ ) (weighting:  $1 / x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	98.968181	98.0
3	KB74	L2	True	252.50	269.910942	106.9
4	KB75	L3	True	505.00	490.752146	97.2
5	KB76	L4	True	1010.00	1004.472242	99.5
6	KB77	L5	True	2525.00	2495.865956	98.9
7	KB78	L6	True	10100.00	9993.499522	99.0
8	KB79	L7	True	20200.00	20340.031011	100.7

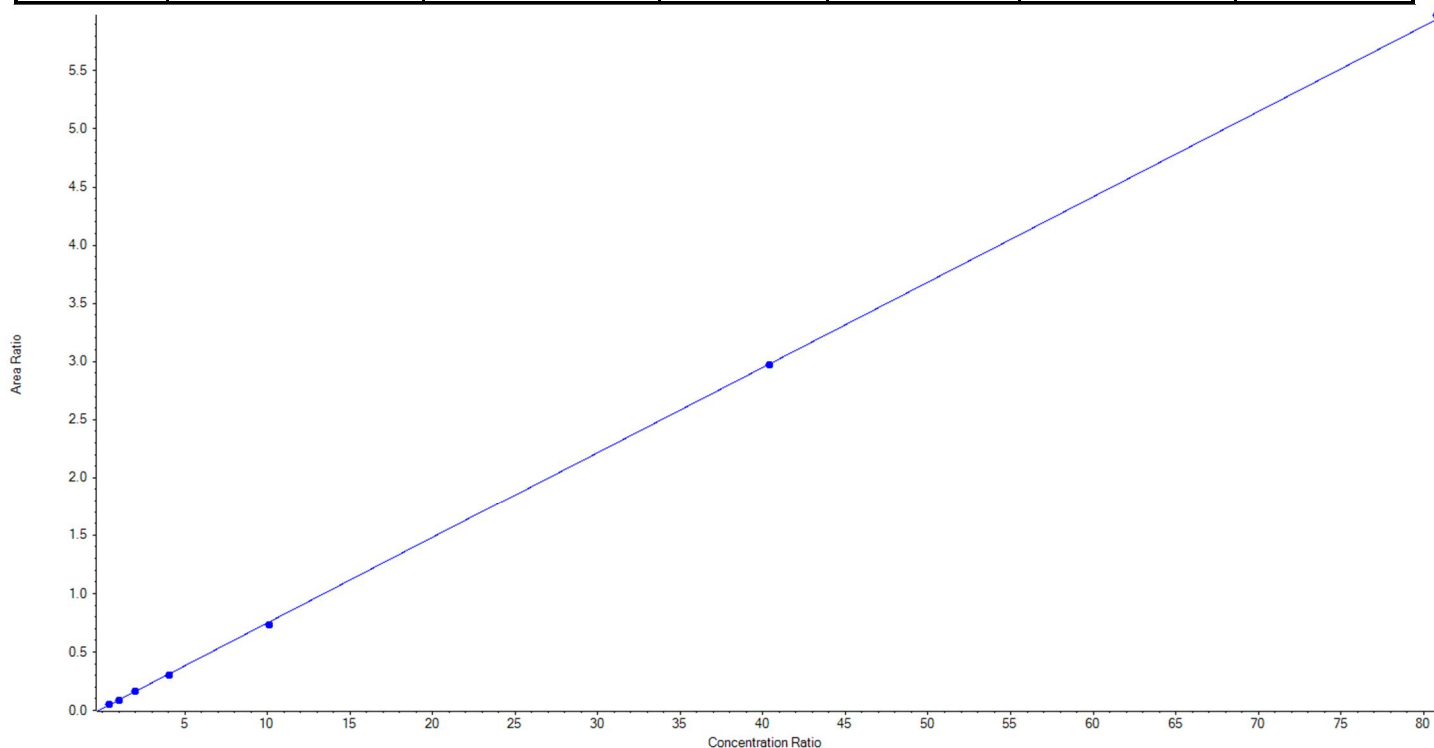




<b>Analyte Name</b>	PFHxA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	313.0 / 119.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C5-PFHxA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.07336 x + 0.01493$  (r = 0.99989) (weighting: 1 / x)

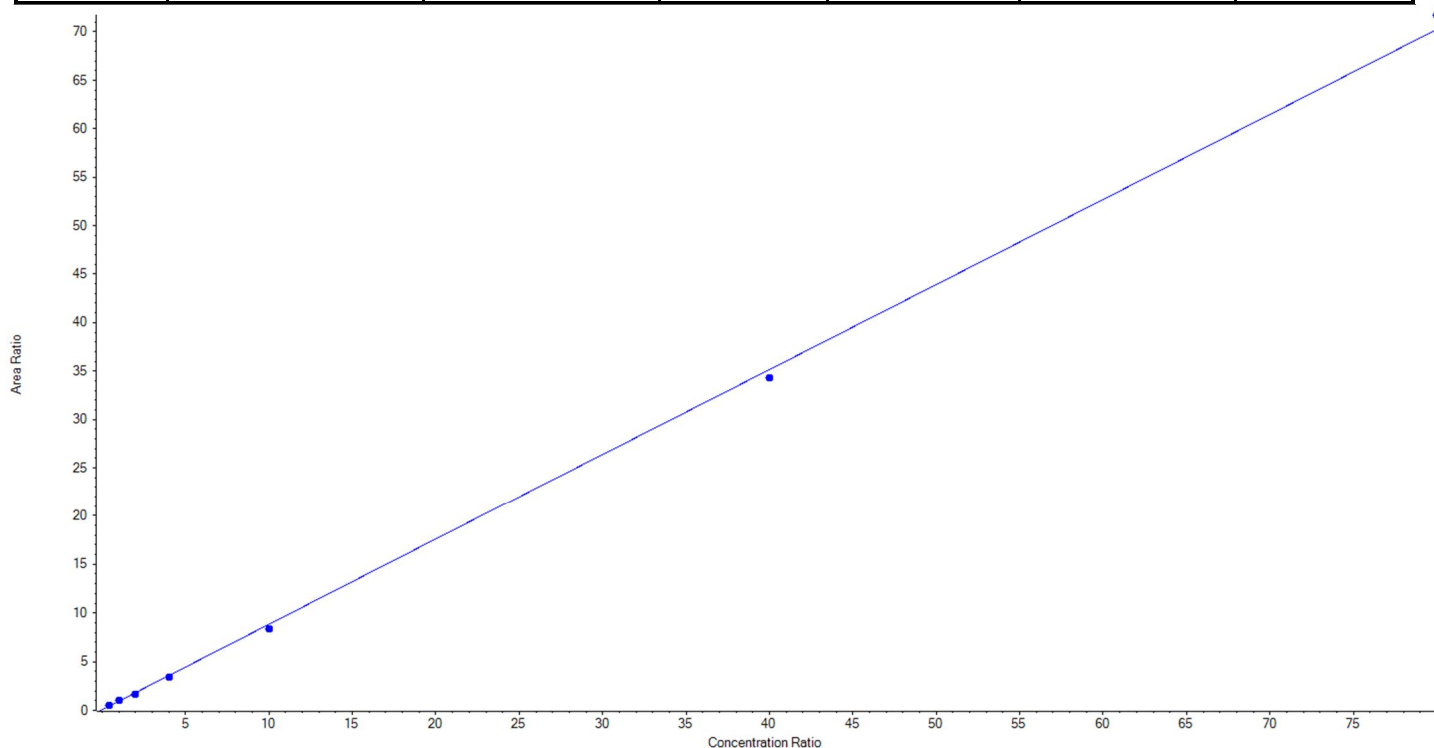
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	113.183087	112.1
3	KB74	L2	True	252.50	230.645561	91.3
4	KB75	L3	True	505.00	514.901118	102.0
5	KB76	L4	True	1010.00	980.952621	97.1
6	KB77	L5	True	2525.00	2451.366061	97.1
7	KB78	L6	True	10100.00	10083.260482	99.8
8	KB79	L7	True	20200.00	20319.191070	100.6



<b>Analyte Name</b>	PFHpA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	363.0 / 319.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C4-PFHpA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.87722 x + 0.06760$  ( $r = 0.99955$ ) (weighting:  $1 / x$ )

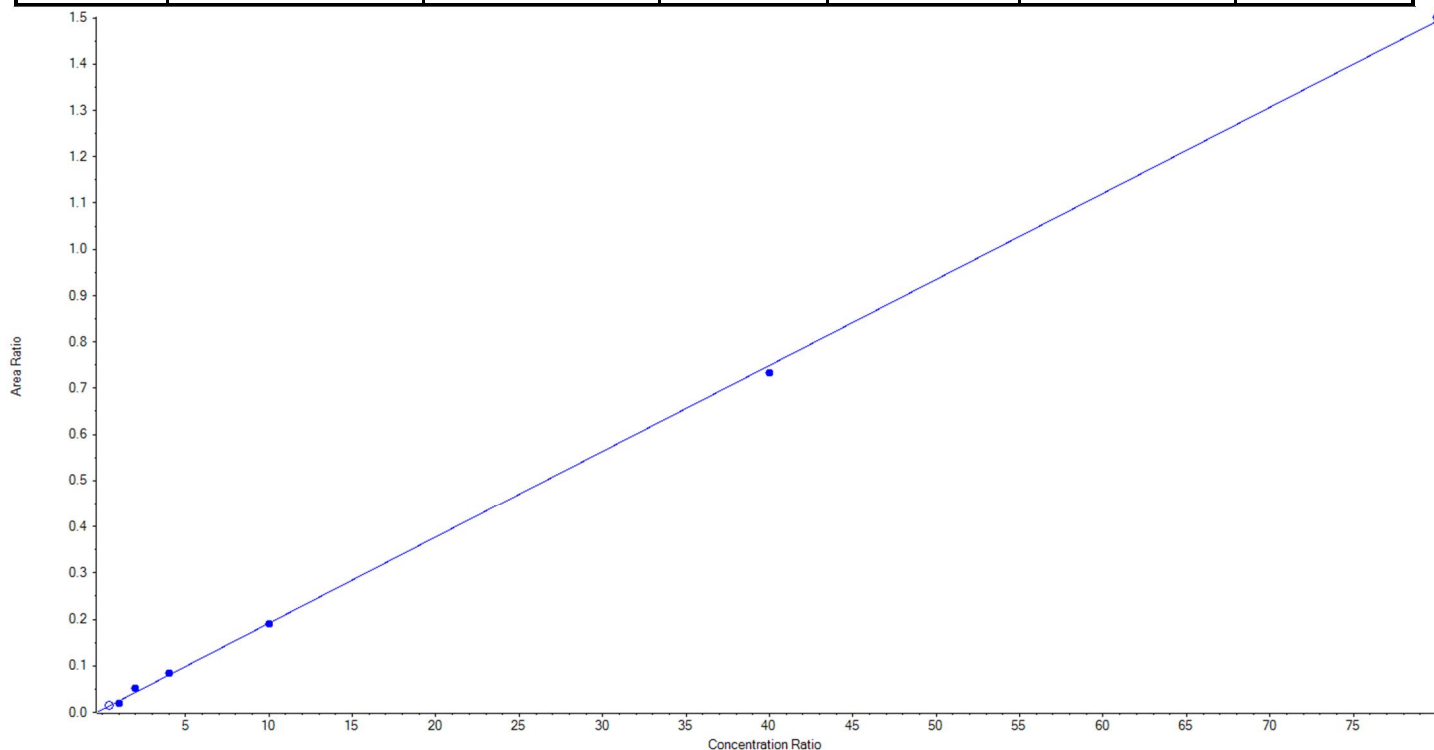
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	113.465532	113.5
3	KB74	L2	True	250.00	261.922885	104.8
4	KB75	L3	True	500.00	452.888167	90.6
5	KB76	L4	True	1000.00	963.772233	96.4
6	KB77	L5	True	2500.00	2376.996854	95.1
7	KB78	L6	True	10000.00	9765.162244	97.7
8	KB79	L7	True	20000.00	20415.792084	102.1



<b>Analyte Name</b>	PFHpA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	363.0 / 169.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C4-PFHpA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.01859x + 0.00581$  ( $r = 0.99892$ ) (weighting:  $1/x$ )

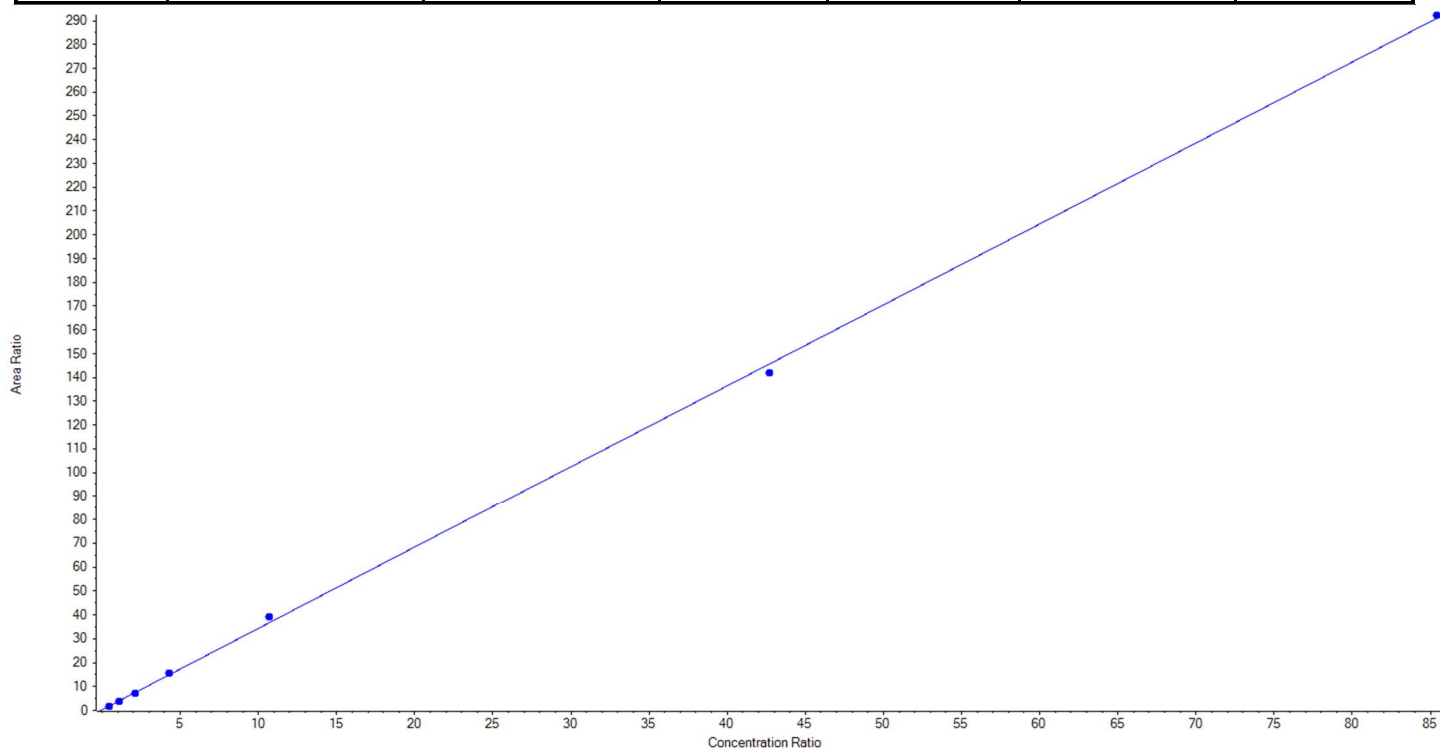
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	False	100.00	114.343231	114.3
3	KB74	L2	True	250.00	176.217872	70.5
4	KB75	L3	True	500.00	629.079630	125.8
5	KB76	L4	True	1000.00	1061.256400	106.1
6	KB77	L5	True	2500.00	2476.950265	99.1
7	KB78	L6	True	10000.00	9792.159108	97.9
8	KB79	L7	True	20000.00	20114.336725	100.6



<b>Analyte Name</b>	PFHxS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	399.0 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C3-PFHxS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 3.40443 x + 0.28942$  (r = 0.99956) (weighting: 1 / x)

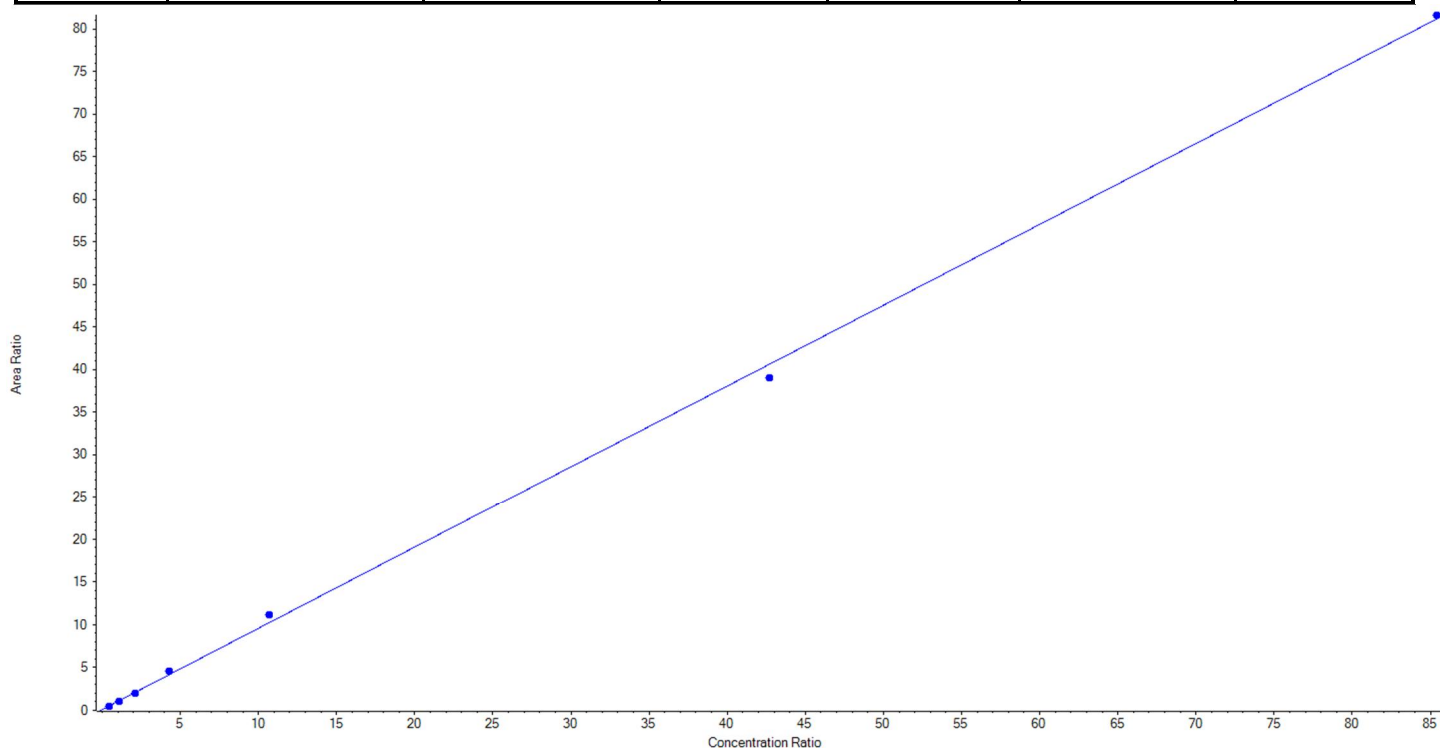
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	105.225987	104.2
3	KB74	L2	True	252.50	232.865372	92.2
4	KB75	L3	True	505.00	467.824000	92.6
5	KB76	L4	True	1010.00	1074.776448	106.4
6	KB77	L5	True	2525.00	2696.493262	106.8
7	KB78	L6	True	10100.00	9828.822898	97.3
8	KB79	L7	True	20200.00	20287.492034	100.4



<b>Analyte Name</b>	PFHxS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	399.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C3-PFHxS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.94916x + 0.10161$  ( $r = 0.99926$ ) (weighting:  $1/x$ )

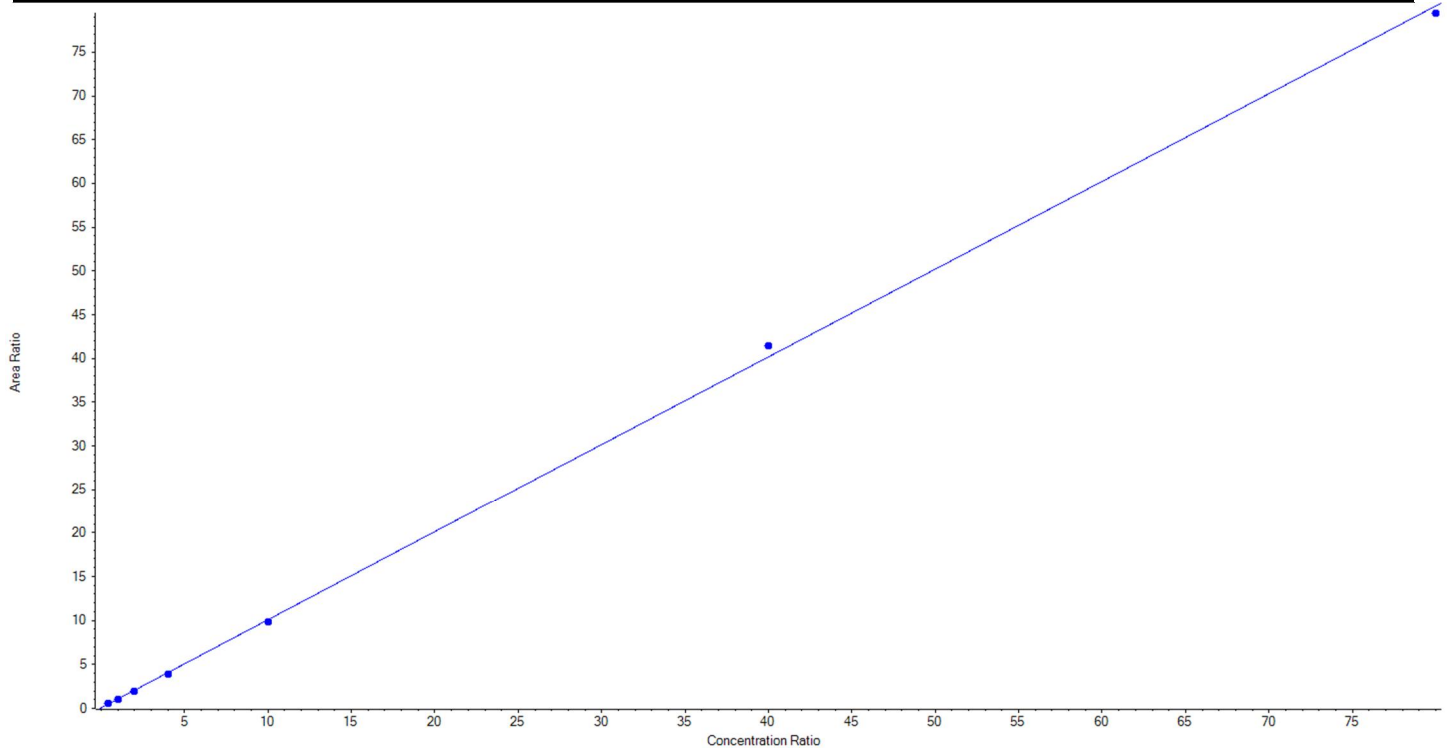
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	98.139274	97.2
3	KB74	L2	True	252.50	231.314187	91.6
4	KB75	L3	True	505.00	484.563583	96.0
5	KB76	L4	True	1010.00	1107.476178	109.7
6	KB77	L5	True	2525.00	2749.725828	108.9
7	KB78	L6	True	10100.00	9714.855919	96.2
8	KB79	L7	True	20200.00	20307.425032	100.5



<b>Analyte Name</b>	PFOA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	413.0 / 369.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C8-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.00279x + 0.06080$  ( $r = 0.99969$ ) (weighting:  $1/x$ )

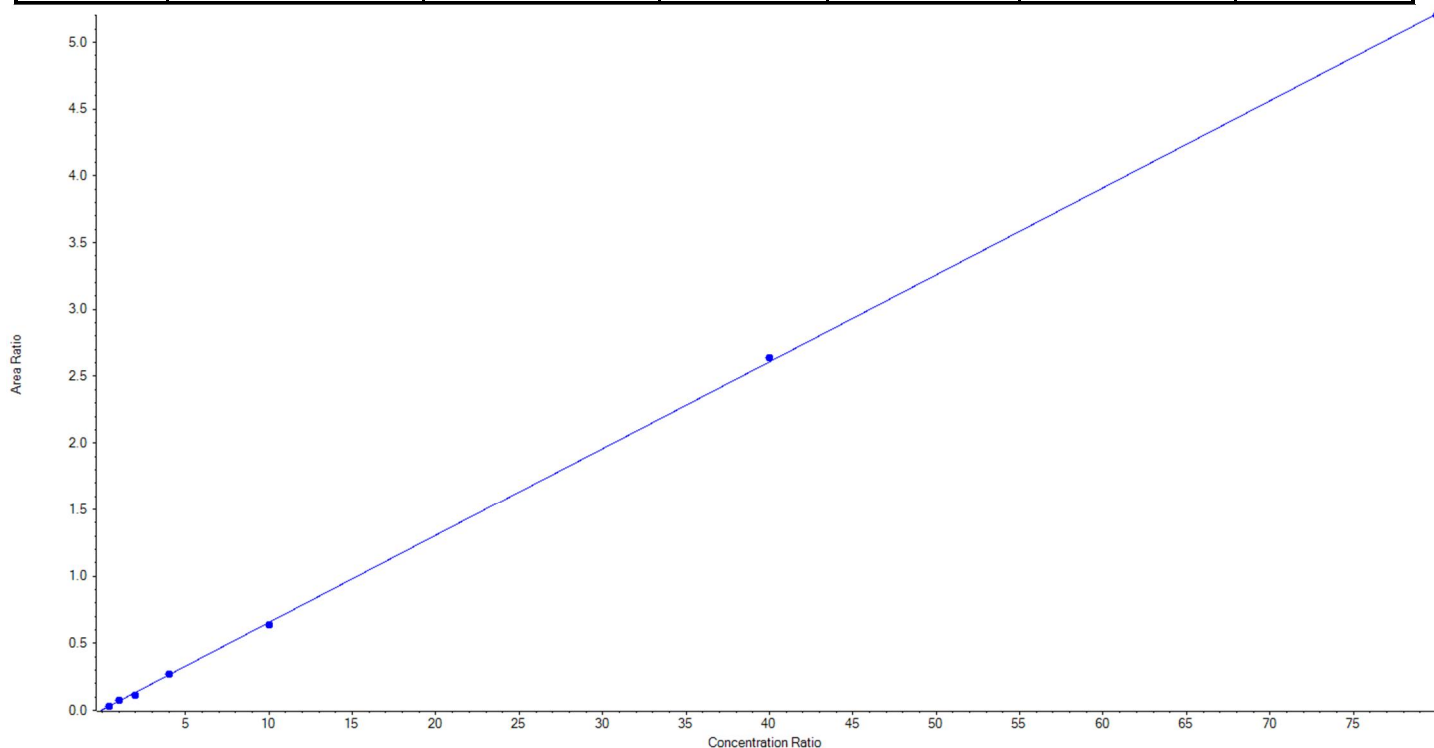
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	113.608497	113.6
3	KB74	L2	True	250.00	242.259718	96.9
4	KB75	L3	True	500.00	467.456638	93.5
5	KB76	L4	True	1000.00	956.844142	95.7
6	KB77	L5	True	2500.00	2452.232813	98.1
7	KB78	L6	True	10000.00	10326.914009	103.3
8	KB79	L7	True	20000.00	19790.684183	99.0



<b>Analyte Name</b>	PFOA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	413.0 / 169.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C8-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.06512x + 0.00376$  ( $r = 0.99971$ ) (weighting:  $1/x$ )

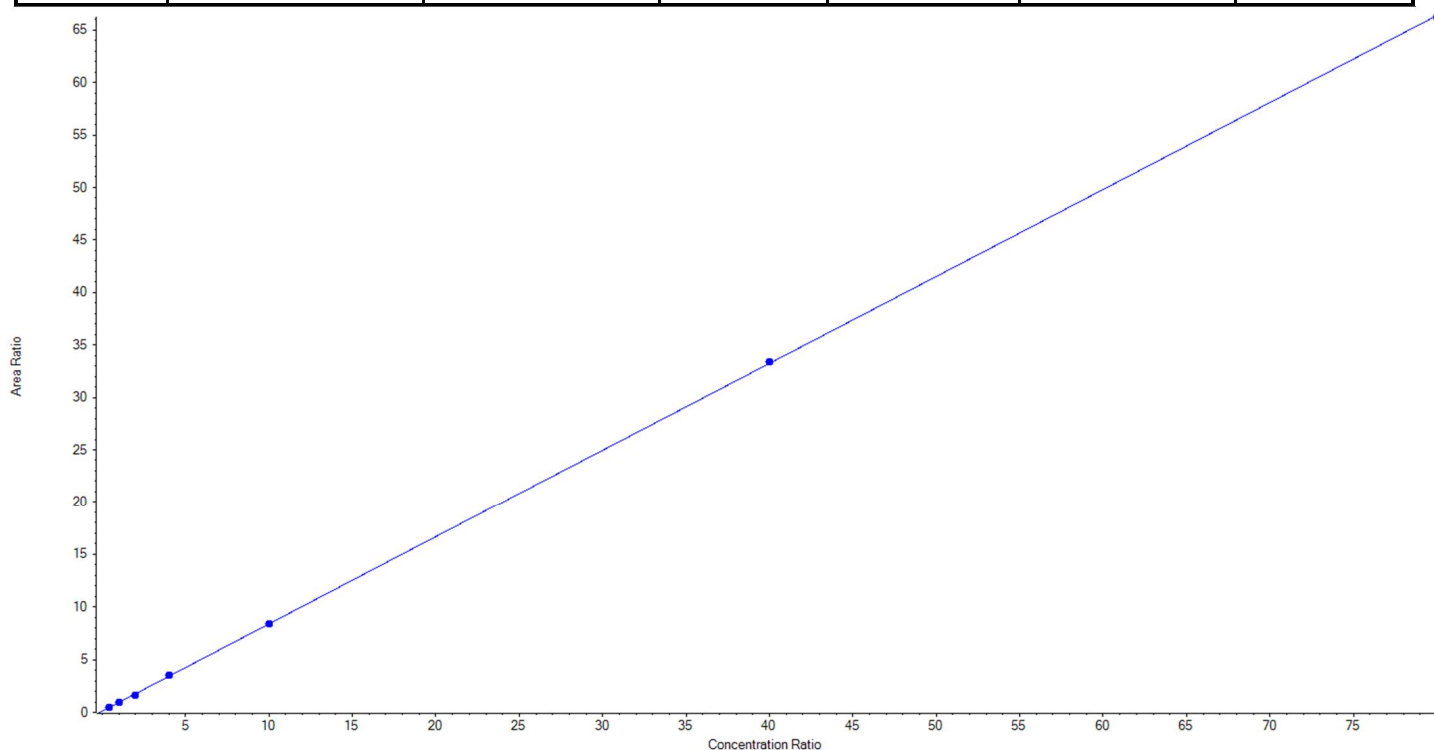
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	104.849376	104.9
3	KB74	L2	True	250.00	273.238913	109.3
4	KB75	L3	True	500.00	421.303706	84.3
5	KB76	L4	True	1000.00	1028.034772	102.8
6	KB77	L5	True	2500.00	2444.883328	97.8
7	KB78	L6	True	10000.00	10121.411629	101.2
8	KB79	L7	True	20000.00	19956.278277	99.8



<b>Analyte Name</b>	PFNA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	463.0 / 419.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C9-PFNA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.82839x + 0.10849$  ( $r = 0.99987$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	100.132667	100.1
3	KB74	L2	True	250.00	263.216231	105.3
4	KB75	L3	True	500.00	450.336433	90.1
5	KB76	L4	True	1000.00	1046.243999	104.6
6	KB77	L5	True	2500.00	2491.510736	99.7
7	KB78	L6	True	10000.00	10047.185055	100.5
8	KB79	L7	True	20000.00	19951.374879	99.8

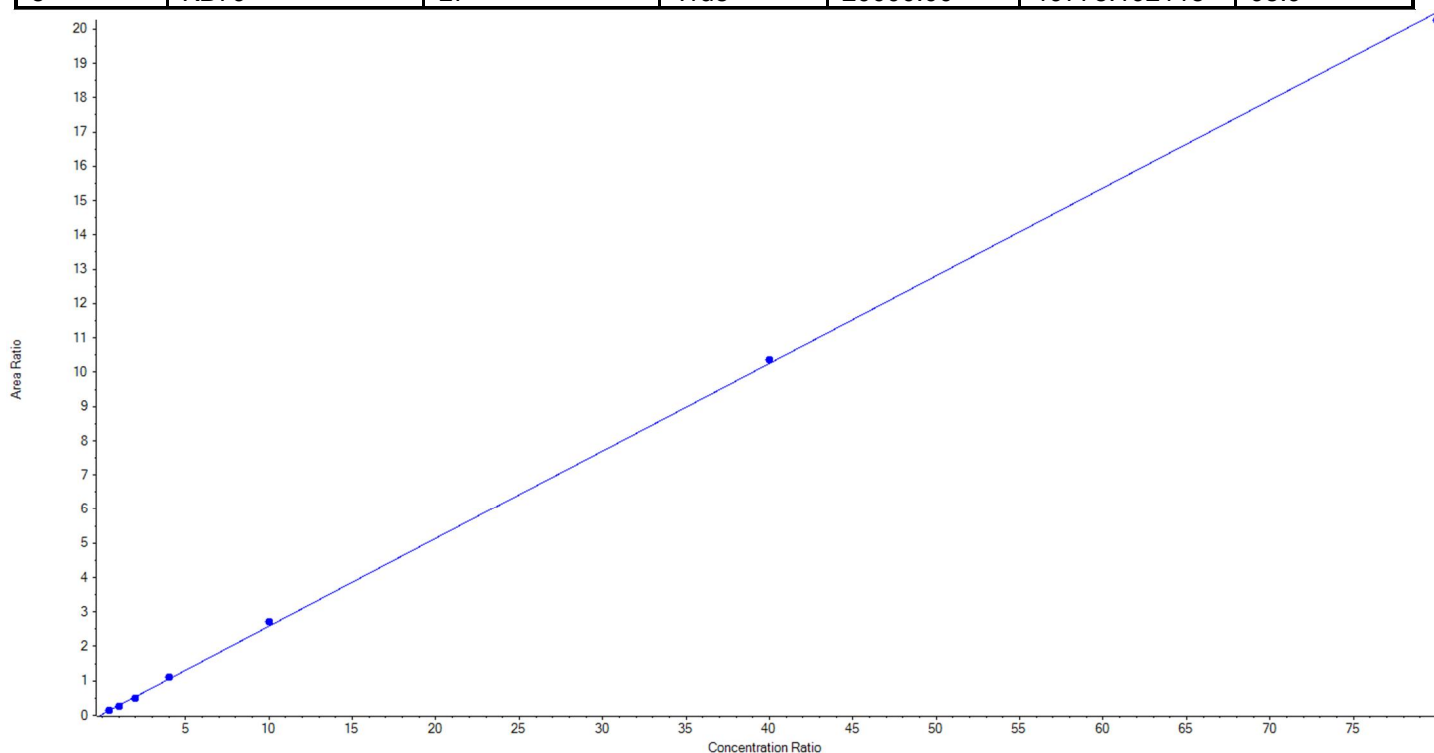




<b>Analyte Name</b>	PFNA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	463.0 / 219.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C9-PFNA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.25566 x + 0.02957$  (r = 0.99963) (weighting: 1 / x)

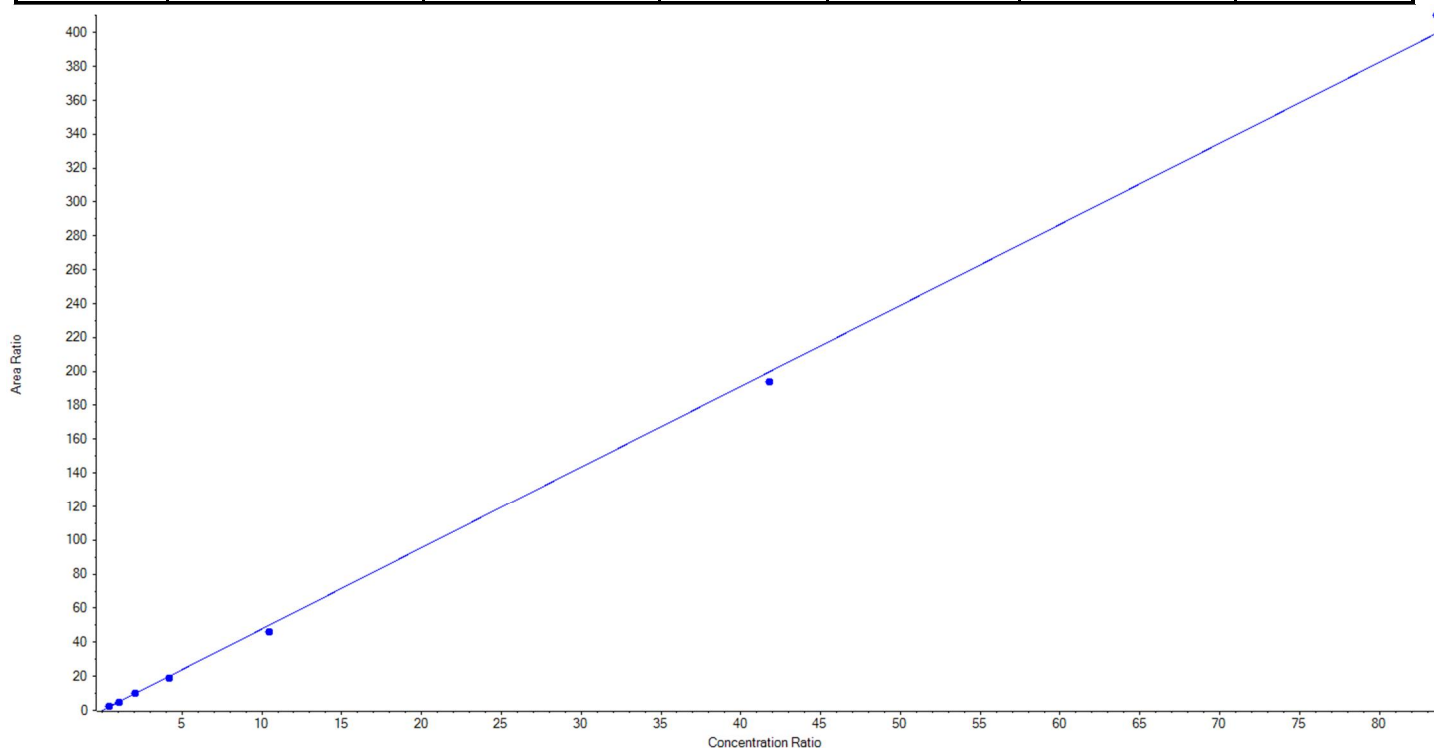
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	111.702594	111.7
3	KB74	L2	True	250.00	220.916460	88.4
4	KB75	L3	True	500.00	448.287193	89.7
5	KB76	L4	True	1000.00	1050.052047	105.0
6	KB77	L5	True	2500.00	2632.290752	105.3
7	KB78	L6	True	10000.00	10108.558837	101.1
8	KB79	L7	True	20000.00	19778.192118	98.9



<b>Analyte Name</b>	PFOS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	499.0 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C8-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 4.78113 x + -0.02320$  (r = 0.99933) (weighting: 1 / x)

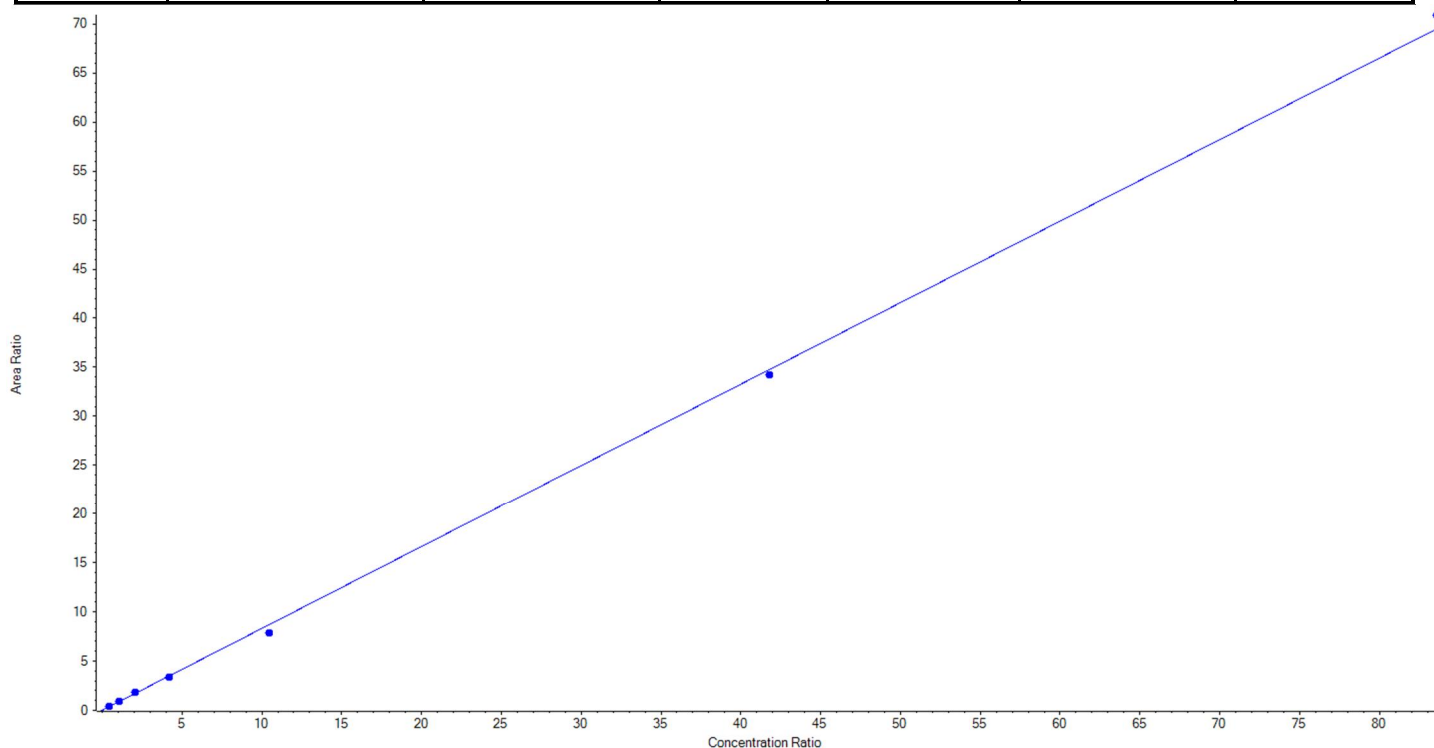
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	112.599020	112.6
3	KB74	L2	True	250.00	245.681372	98.3
4	KB75	L3	True	500.00	509.369654	101.9
5	KB76	L4	True	1000.00	954.753371	95.5
6	KB77	L5	True	2500.00	2304.985979	92.2
7	KB78	L6	True	10000.00	9693.334326	96.9
8	KB79	L7	True	20000.00	20529.276278	102.7



<b>Analyte Name</b>	PFOS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	499.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C8-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.83162x + 0.00374$  ( $r = 0.99945$ ) (weighting:  $1/x$ )

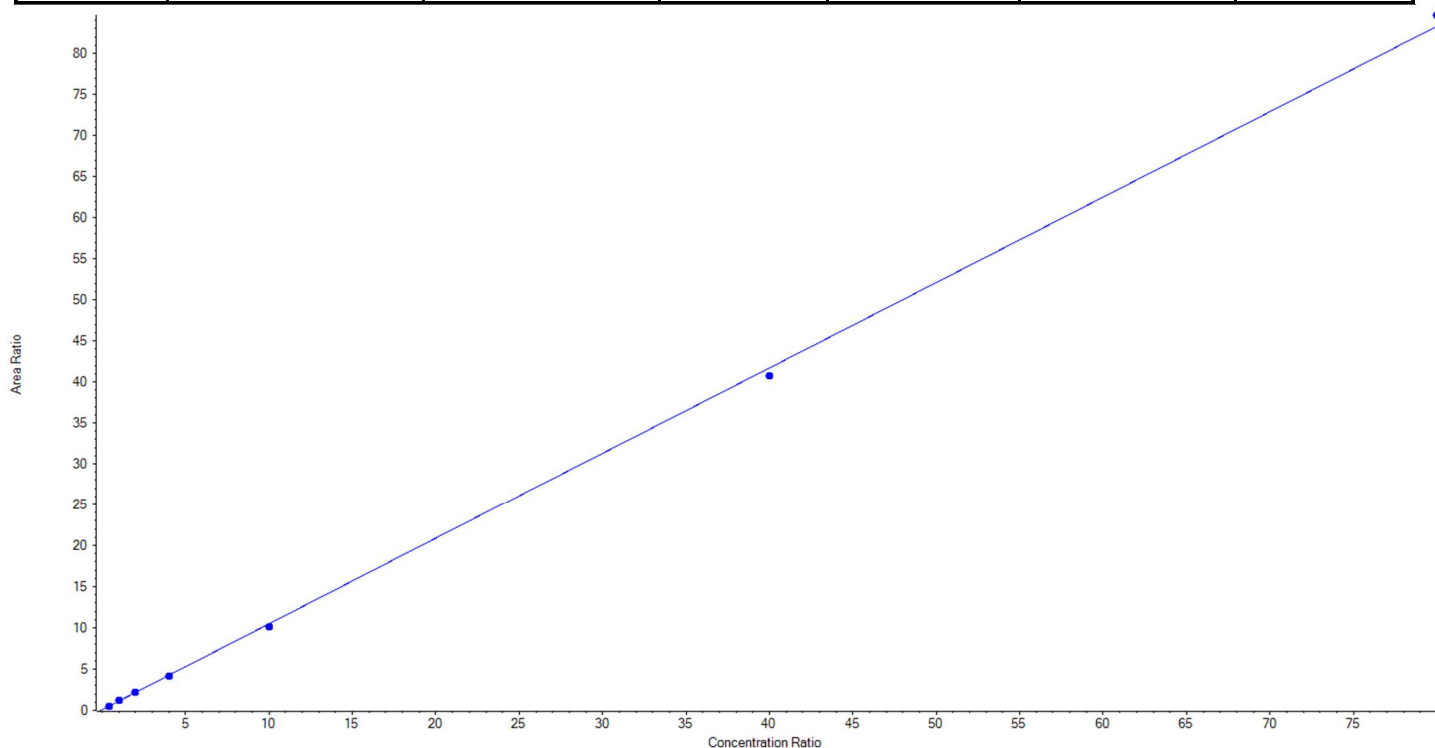
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	109.512886	109.5
3	KB74	L2	True	250.00	249.316942	99.7
4	KB75	L3	True	500.00	518.836969	103.8
5	KB76	L4	True	1000.00	957.197512	95.7
6	KB77	L5	True	2500.00	2270.102428	90.8
7	KB78	L6	True	10000.00	9848.785707	98.5
8	KB79	L7	True	20000.00	20396.247555	102.0



<b>Analyte Name</b>	PFDA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	513.0 / 469.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C6-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.03992x + 0.08967$  ( $r = 0.99977$ ) (weighting:  $1/x$ )

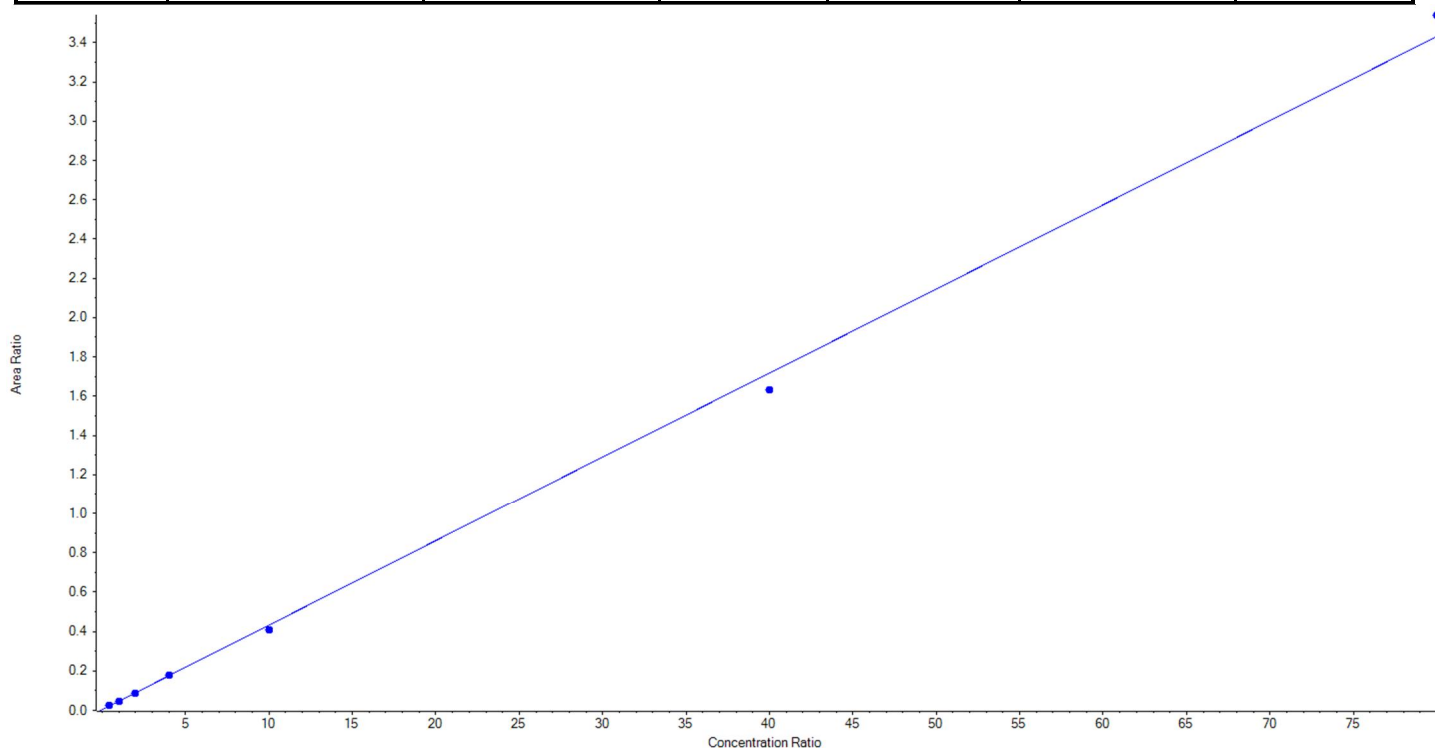
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	100.375074	100.4
3	KB74	L2	True	250.00	264.467518	105.8
4	KB75	L3	True	500.00	495.556524	99.1
5	KB76	L4	True	1000.00	987.592944	98.8
6	KB77	L5	True	2500.00	2418.646707	96.8
7	KB78	L6	True	10000.00	9760.929085	97.6
8	KB79	L7	True	20000.00	20322.432148	101.6



<b>Analyte Name</b>	PFDA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	513.0 / 219.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C6-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.04284 x + 0.00408$  ( $r = 0.99914$ ) (weighting:  $1 / x$ )

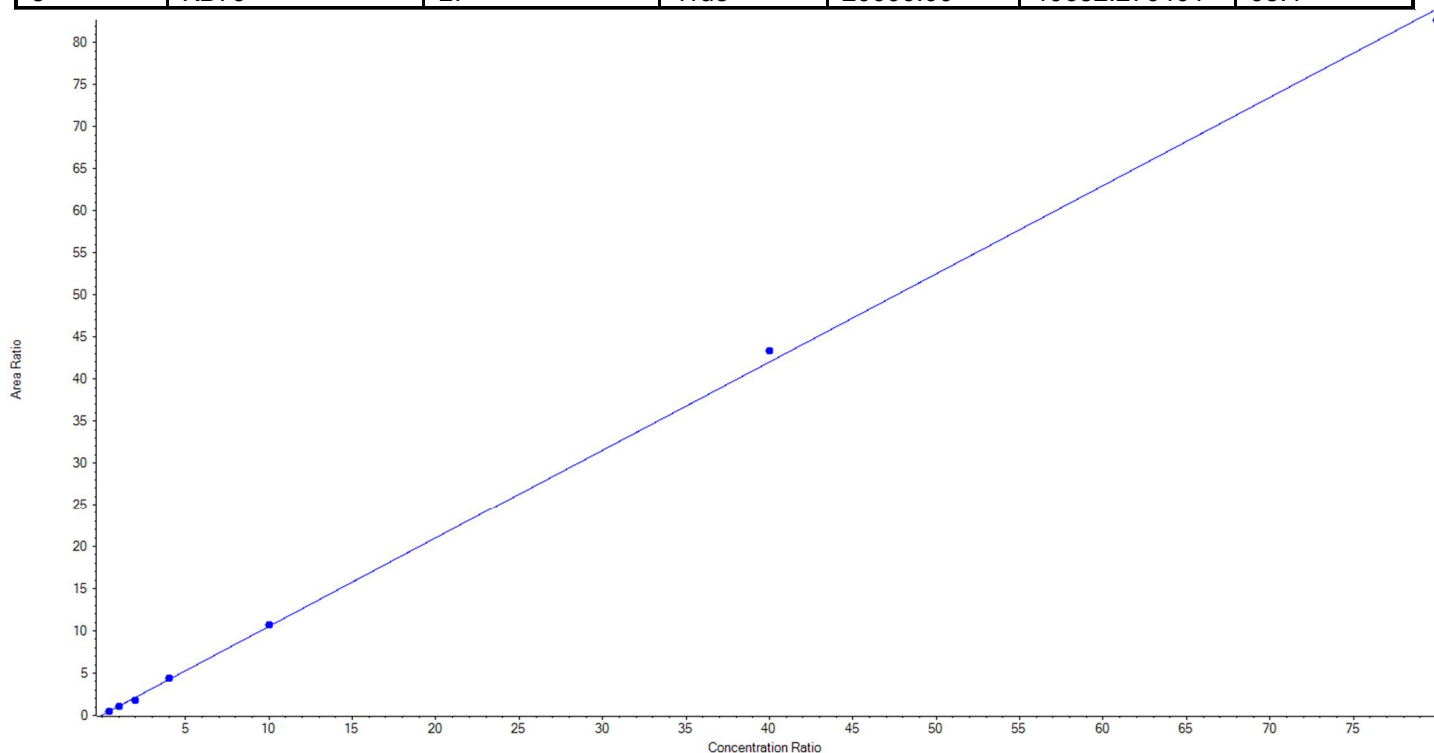
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	112.406023	112.4
3	KB74	L2	True	250.00	245.500787	98.2
4	KB75	L3	True	500.00	479.073328	95.8
5	KB76	L4	True	1000.00	1010.924950	101.1
6	KB77	L5	True	2500.00	2354.317167	94.2
7	KB78	L6	True	10000.00	9514.985150	95.2
8	KB79	L7	True	20000.00	20632.792594	103.2



<b>Analyte Name</b>	PFUnA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	563.0 / 519.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C7-PFUnA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.04939x + 0.04151$  ( $r = 0.99953$ ) (weighting:  $1/x$ )

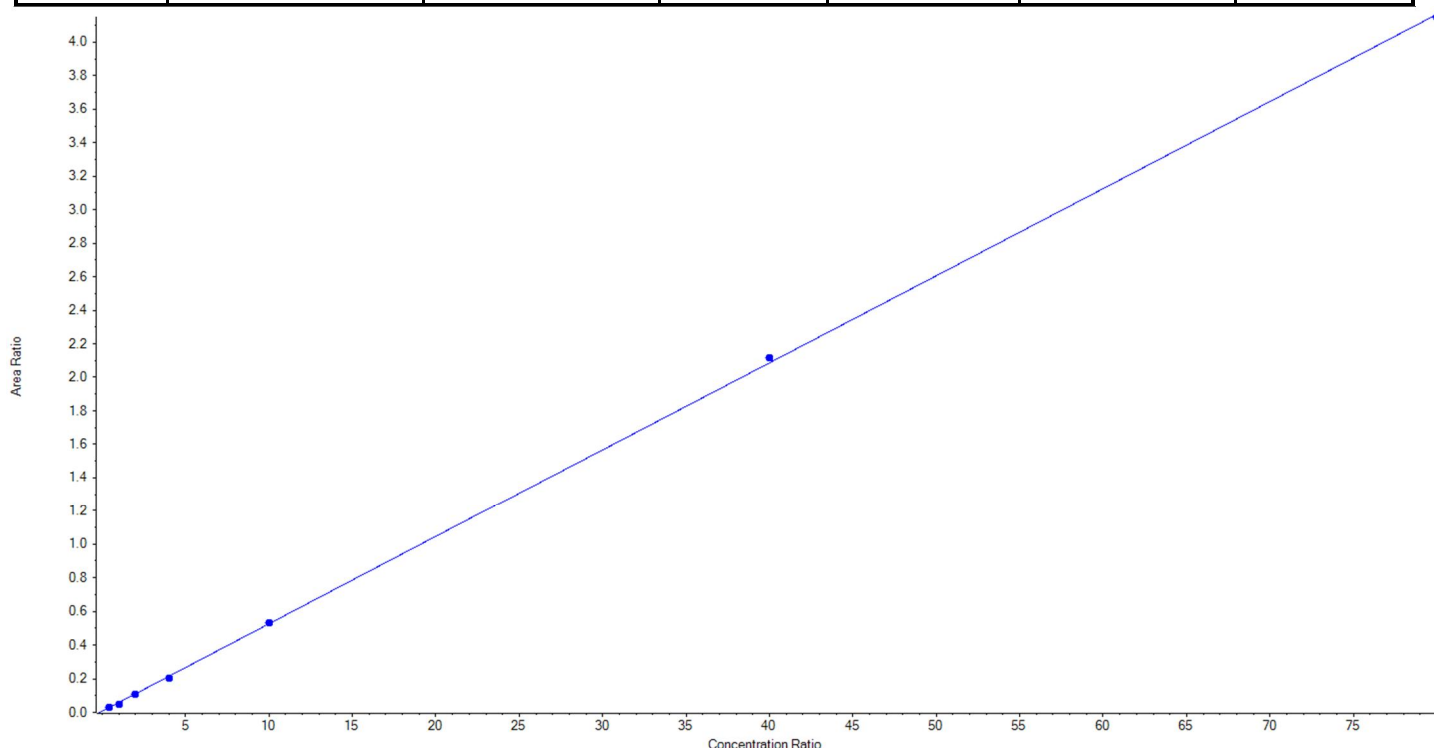
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	111.527231	111.5
3	KB74	L2	True	250.00	244.824605	97.9
4	KB75	L3	True	500.00	423.690587	84.7
5	KB76	L4	True	1000.00	1026.343861	102.6
6	KB77	L5	True	2500.00	2538.187940	101.5
7	KB78	L6	True	10000.00	10323.155375	103.2
8	KB79	L7	True	20000.00	19682.270401	98.4



<b>Analyte Name</b>	PFUnA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	563.0 / 269.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C7-PFUnA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.05199x + 0.00650$  ( $r = 0.99973$ ) (weighting:  $1/x$ )

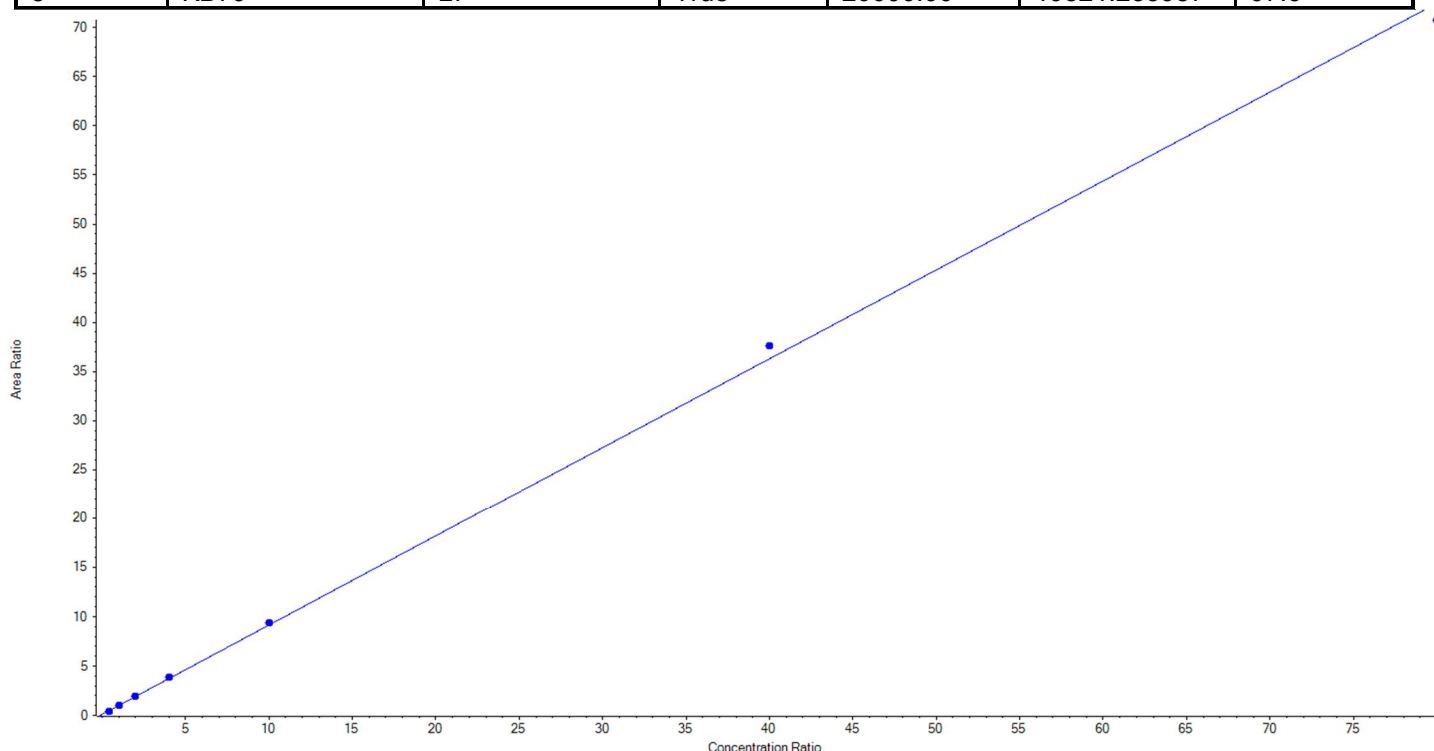
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	123.087165	123.1
3	KB74	L2	True	250.00	212.105633	84.8
4	KB75	L3	True	500.00	472.544890	94.5
5	KB76	L4	True	1000.00	955.215522	95.5
6	KB77	L5	True	2500.00	2525.361248	101.0
7	KB78	L6	True	10000.00	10143.434770	101.4
8	KB79	L7	True	20000.00	19918.250772	99.6



<b>Analyte Name</b>	PFD <sub>o</sub> A_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	613.0 / 569.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-PFD <sub>o</sub> A	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.90471x + 0.10550$  ( $r = 0.99952$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	90.939755	90.9
3	KB74	L2	True	250.00	247.072023	98.8
4	KB75	L3	True	500.00	506.360909	101.3
5	KB76	L4	True	1000.00	1050.478389	105.1
6	KB77	L5	True	2500.00	2565.539851	102.6
7	KB78	L6	True	10000.00	10368.355085	103.7
8	KB79	L7	True	20000.00	19521.253987	97.6

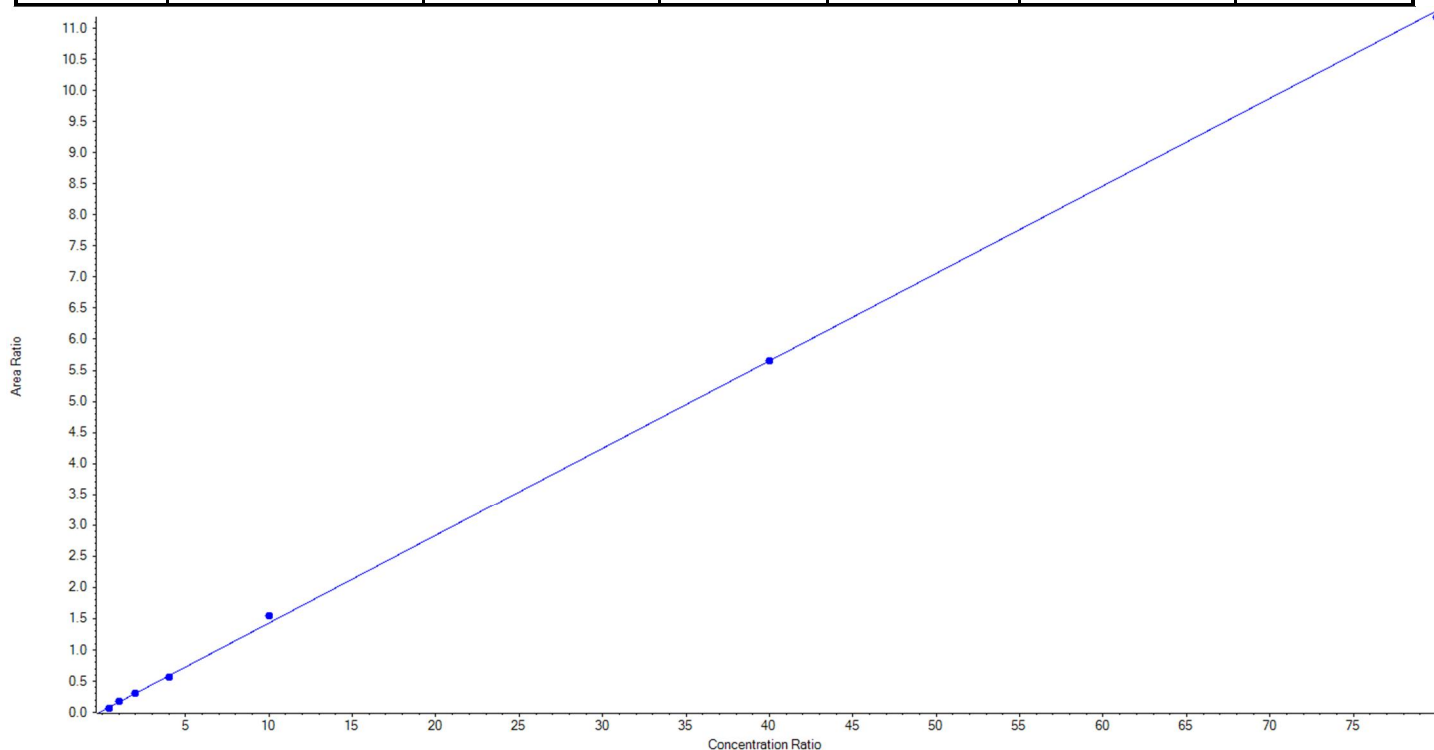




<b>Analyte Name</b>	PFD <sub>o</sub> A_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	613.0 / 319.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-PFD <sub>o</sub> A	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.14074 x + 0.02292$  ( $r = 0.99961$ ) (weighting:  $1 / x$ )

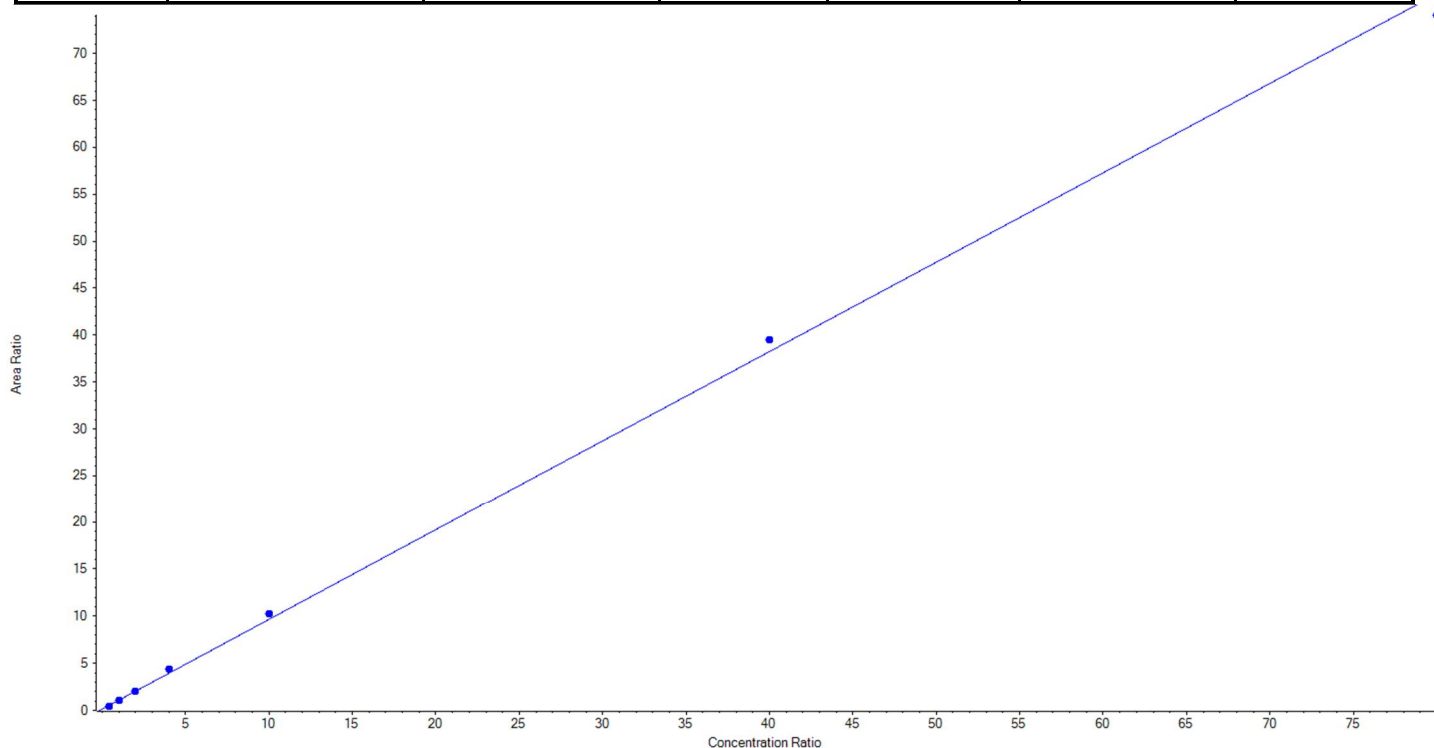
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	86.545687	86.6
3	KB74	L2	True	250.00	274.615048	109.9
4	KB75	L3	True	500.00	494.661881	98.9
5	KB76	L4	True	1000.00	971.395687	97.1
6	KB77	L5	True	2500.00	2712.576260	108.5
7	KB78	L6	True	10000.00	9996.454238	100.0
8	KB79	L7	True	20000.00	19813.751199	99.1



<b>Analyte Name</b>	PFTrDA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	663.0 / 619.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.95260x + 0.12887$  ( $r = 0.99908$ ) (weighting:  $1/x$ )

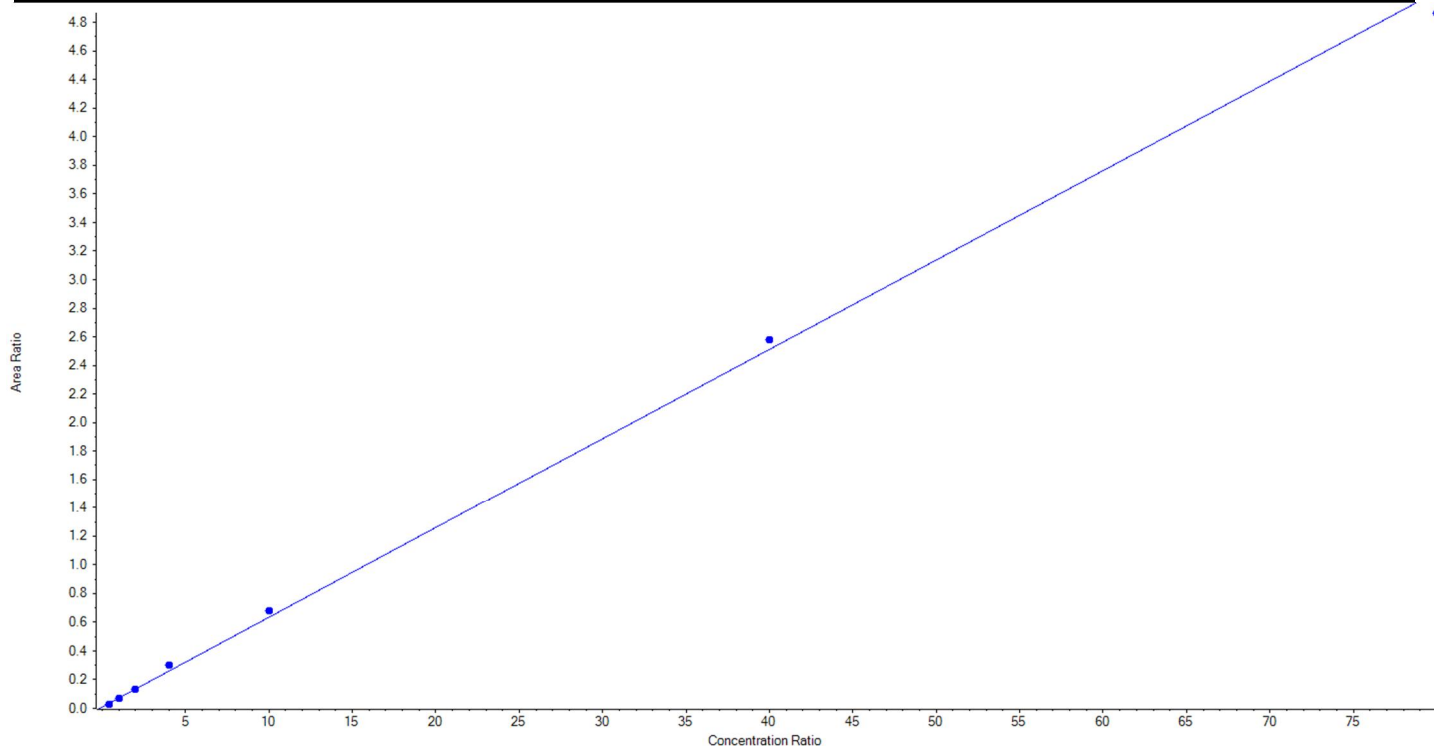
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	85.967911	86.0
3	KB74	L2	True	250.00	241.563939	96.6
4	KB75	L3	True	500.00	488.700899	97.7
5	KB76	L4	True	1000.00	1126.764608	112.7
6	KB77	L5	True	2500.00	2664.921530	106.6
7	KB78	L6	True	10000.00	10336.521146	103.4
8	KB79	L7	True	20000.00	19405.559967	97.0



<b>Analyte Name</b>	PFTrDA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	663.0 / 169.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.06256 x + 0.00941$  ( $r = 0.99887$ ) (weighting:  $1 / x$ )

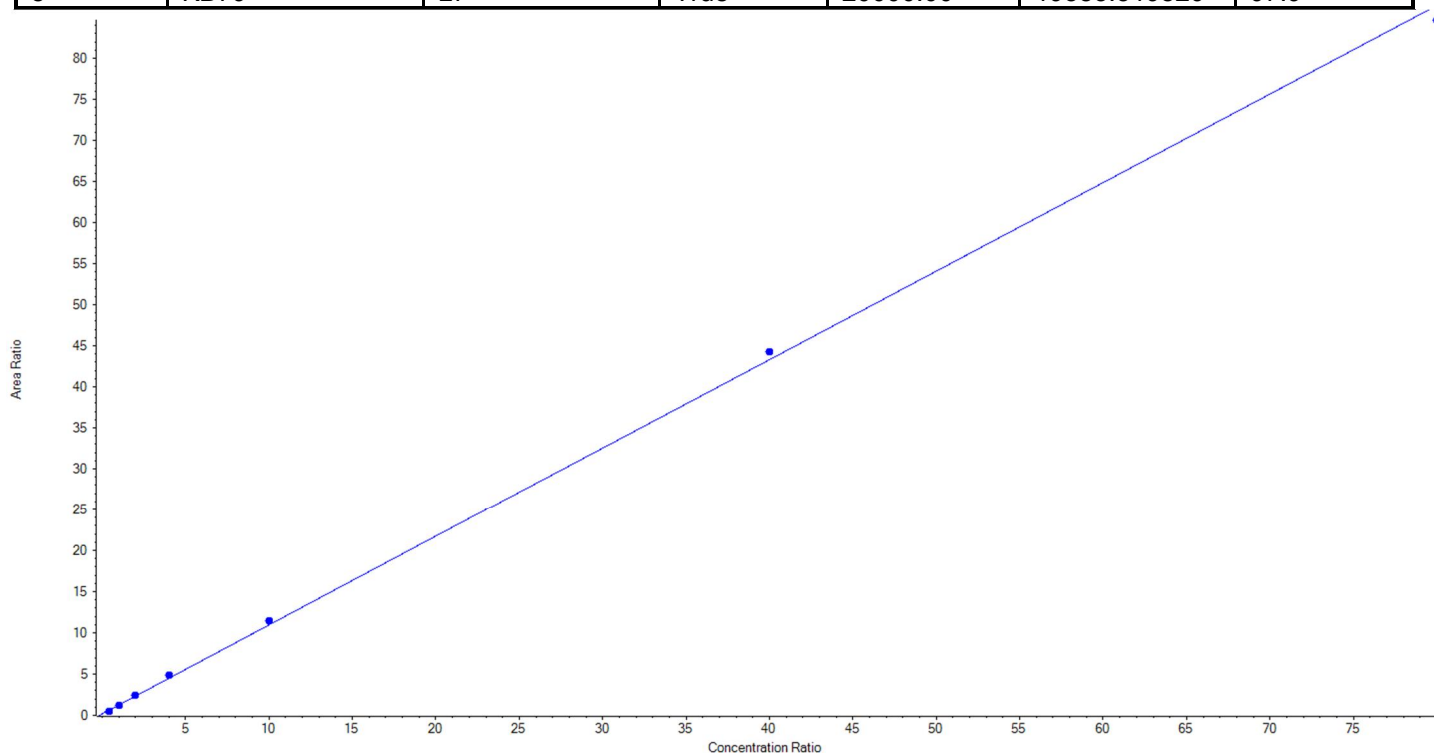
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	78.198175	78.2
3	KB74	L2	True	250.00	247.986856	99.2
4	KB75	L3	True	500.00	495.036348	99.0
5	KB76	L4	True	1000.00	1164.067670	116.4
6	KB77	L5	True	2500.00	2684.712399	107.4
7	KB78	L6	True	10000.00	10280.911529	102.8
8	KB79	L7	True	20000.00	19399.087023	97.0



<b>Analyte Name</b>	PFTeDA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	713.0 / 669.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.07817x + 0.18334$  ( $r = 0.99951$ ) (weighting:  $1/x$ )

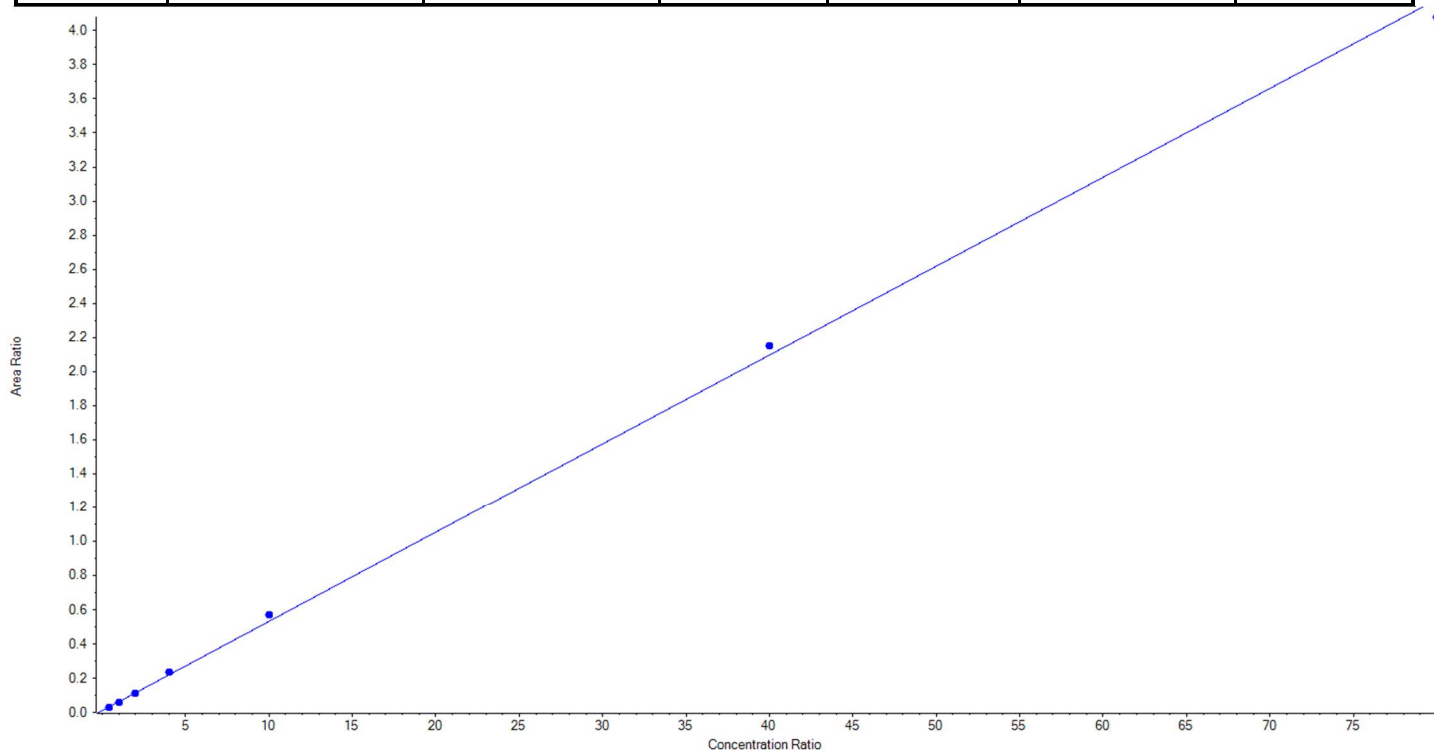
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	81.728327	81.7
3	KB74	L2	True	250.00	253.645310	101.5
4	KB75	L3	True	500.00	515.154084	103.0
5	KB76	L4	True	1000.00	1095.645152	109.6
6	KB77	L5	True	2500.00	2603.218162	104.1
7	KB78	L6	True	10000.00	10217.289136	102.2
8	KB79	L7	True	20000.00	19583.319829	97.9



<b>Analyte Name</b>	PFTeDA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	713.0 / 169.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-PFTeDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.05216 x + 0.01003$  (r = 0.99933) (weighting: 1 / x)

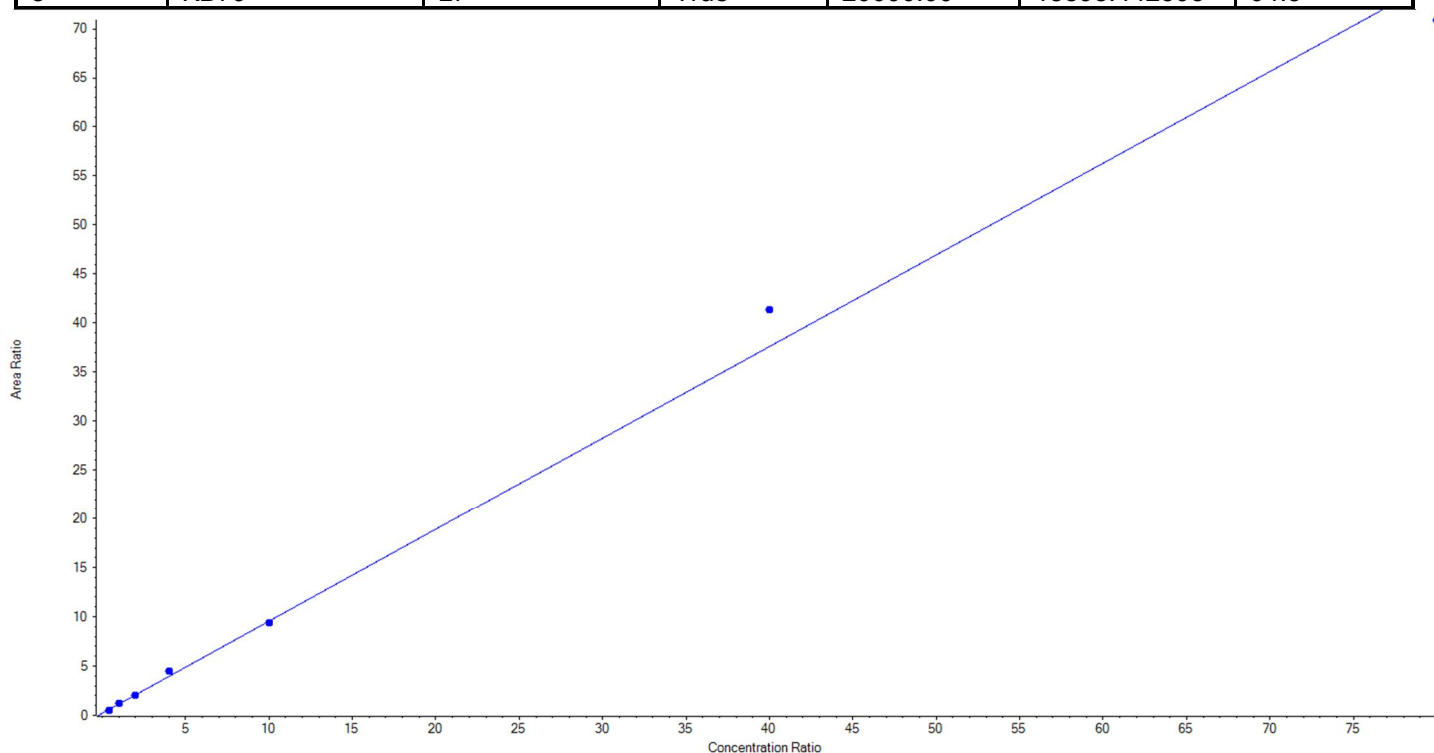
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	89.886117	89.9
3	KB74	L2	True	250.00	238.937138	95.6
4	KB75	L3	True	500.00	490.005825	98.0
5	KB76	L4	True	1000.00	1092.239213	109.2
6	KB77	L5	True	2500.00	2680.771848	107.2
7	KB78	L6	True	10000.00	10258.453725	102.6
8	KB79	L7	True	20000.00	19499.706134	97.5



<b>Analyte Name</b>	NMeFOSAA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	570.0 / 419.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	d3-MeFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.93472x + 0.21431$  ( $r = 0.99704$ ) (weighting:  $1/x$ )

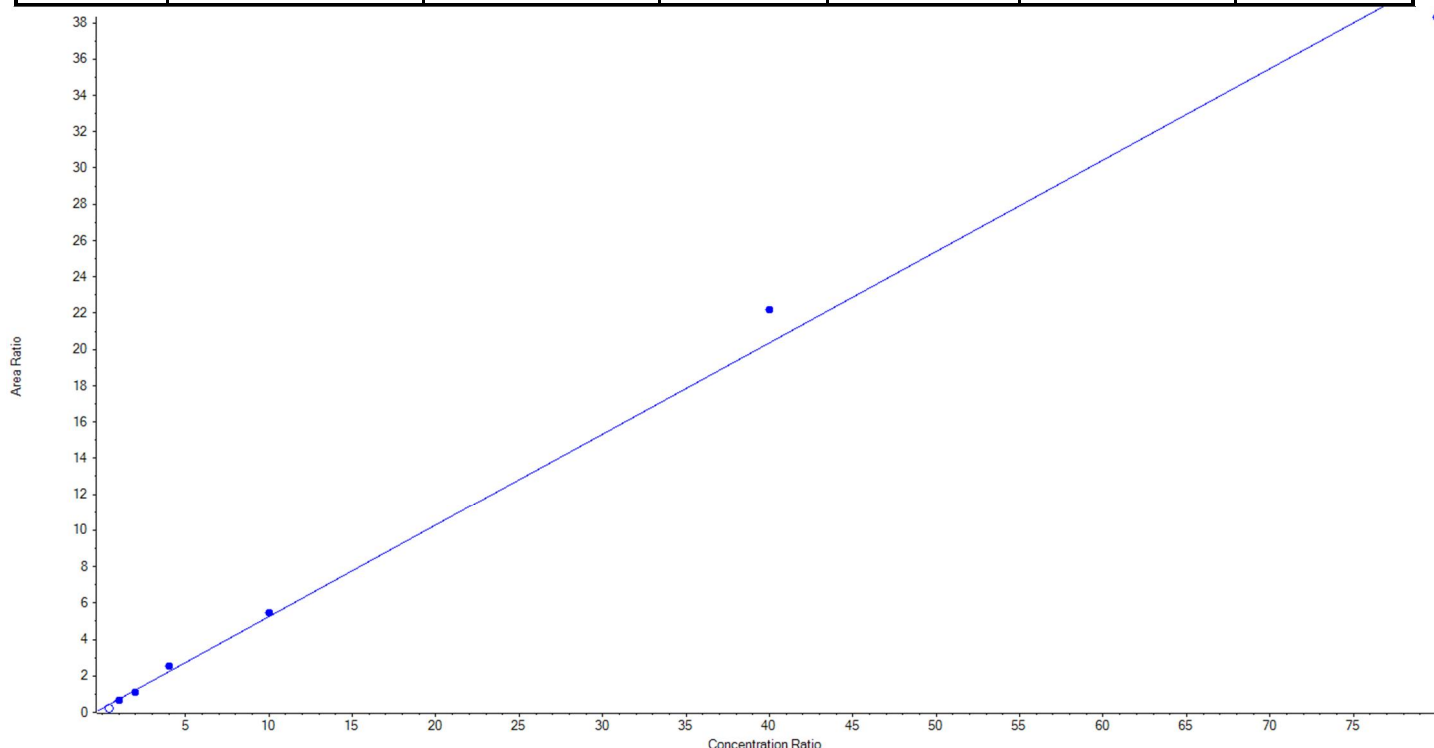
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	75.824991	75.8
3	KB74	L2	True	250.00	268.876365	107.6
4	KB75	L3	True	500.00	500.524214	100.1
5	KB76	L4	True	1000.00	1133.404189	113.3
6	KB77	L5	True	2500.00	2465.257046	98.6
7	KB78	L6	True	10000.00	11007.670601	110.1
8	KB79	L7	True	20000.00	18898.442593	94.5



<b>Analyte Name</b>	NMeFOSAA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	570.0 / 512.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	d3-MeFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.50367 x + 0.21759$  ( $r = 0.99687$ ) (weighting:  $1 / x$ )

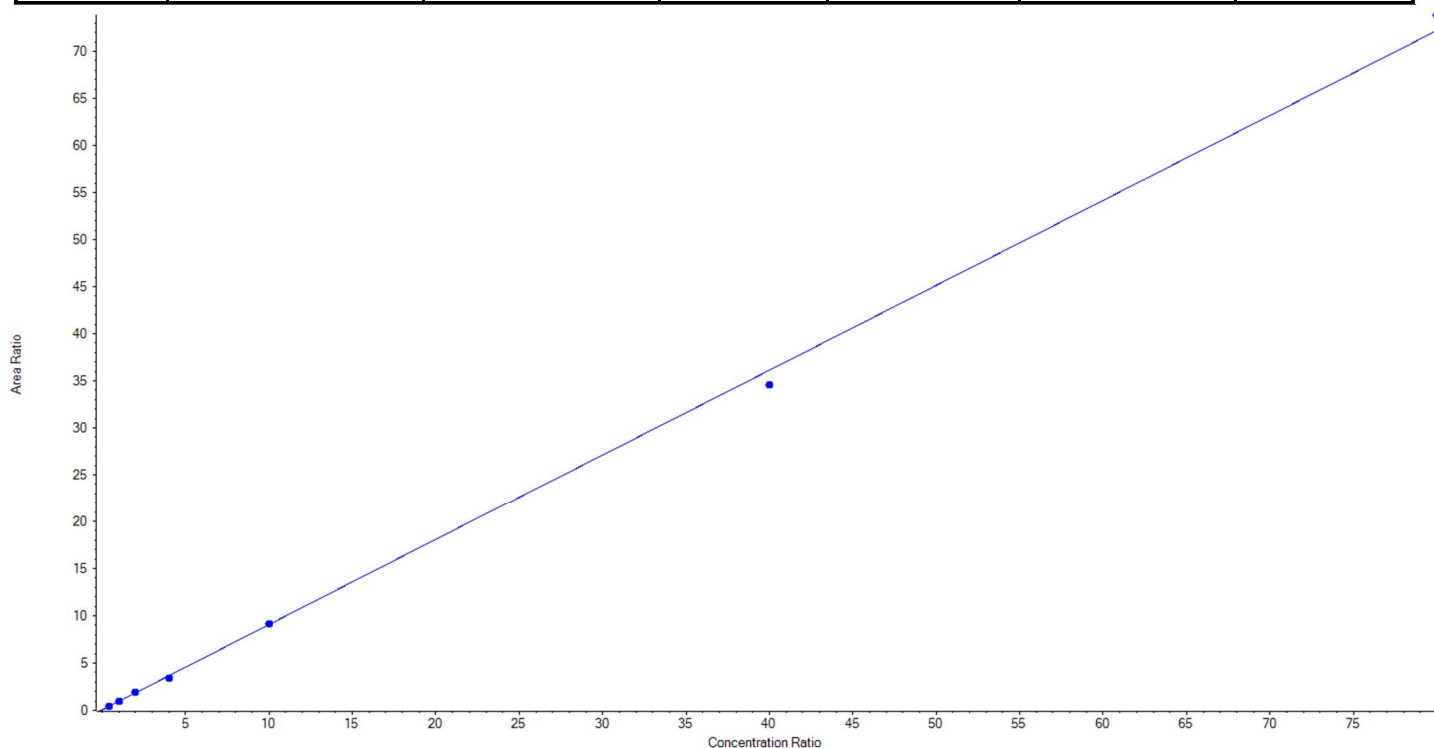
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	False	100.00	3.453918	3.5
3	KB74	L2	True	250.00	218.419800	87.4
4	KB75	L3	True	500.00	439.990383	88.0
5	KB76	L4	True	1000.00	1163.925478	116.4
6	KB77	L5	True	2500.00	2616.439396	104.7
7	KB78	L6	True	10000.00	10905.550987	109.1
8	KB79	L7	True	20000.00	18905.673956	94.5



<b>Analyte Name</b>	NEtFOSAA_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	584.0 / 419.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	d5-EtFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.90179x + 0.05555$  ( $r = 0.99946$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	102.765216	102.8
3	KB74	L2	True	250.00	248.995881	99.6
4	KB75	L3	True	500.00	523.904836	104.8
5	KB76	L4	True	1000.00	941.680018	94.2
6	KB77	L5	True	2500.00	2520.477059	100.8
7	KB78	L6	True	10000.00	9561.499046	95.6
8	KB79	L7	True	20000.00	20450.677943	102.3

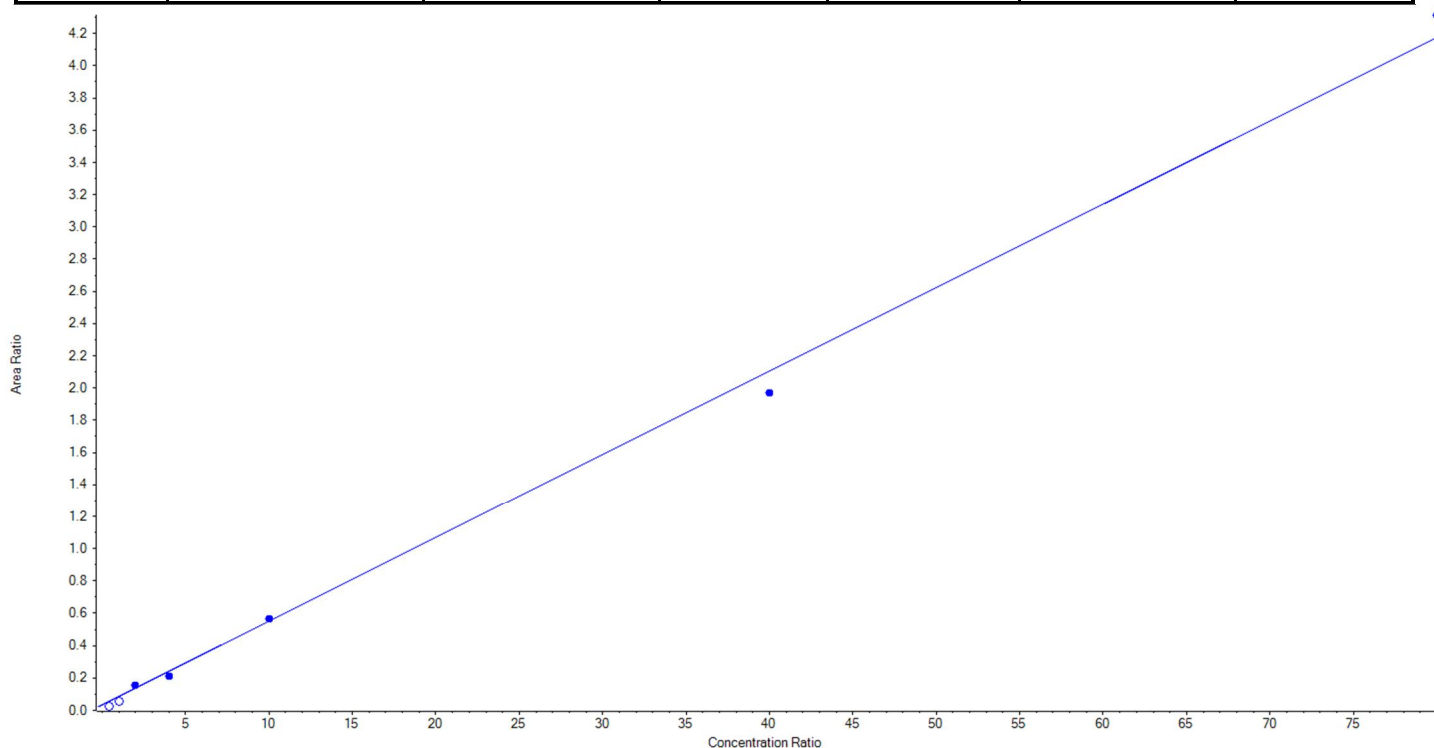




<b>Analyte Name</b>	NEtFOSAA_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	584.0 / 483.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	d5-EtFOSAA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.05177 x + 0.03453$  ( $r = 0.99815$ ) (weighting:  $1 / x$ )

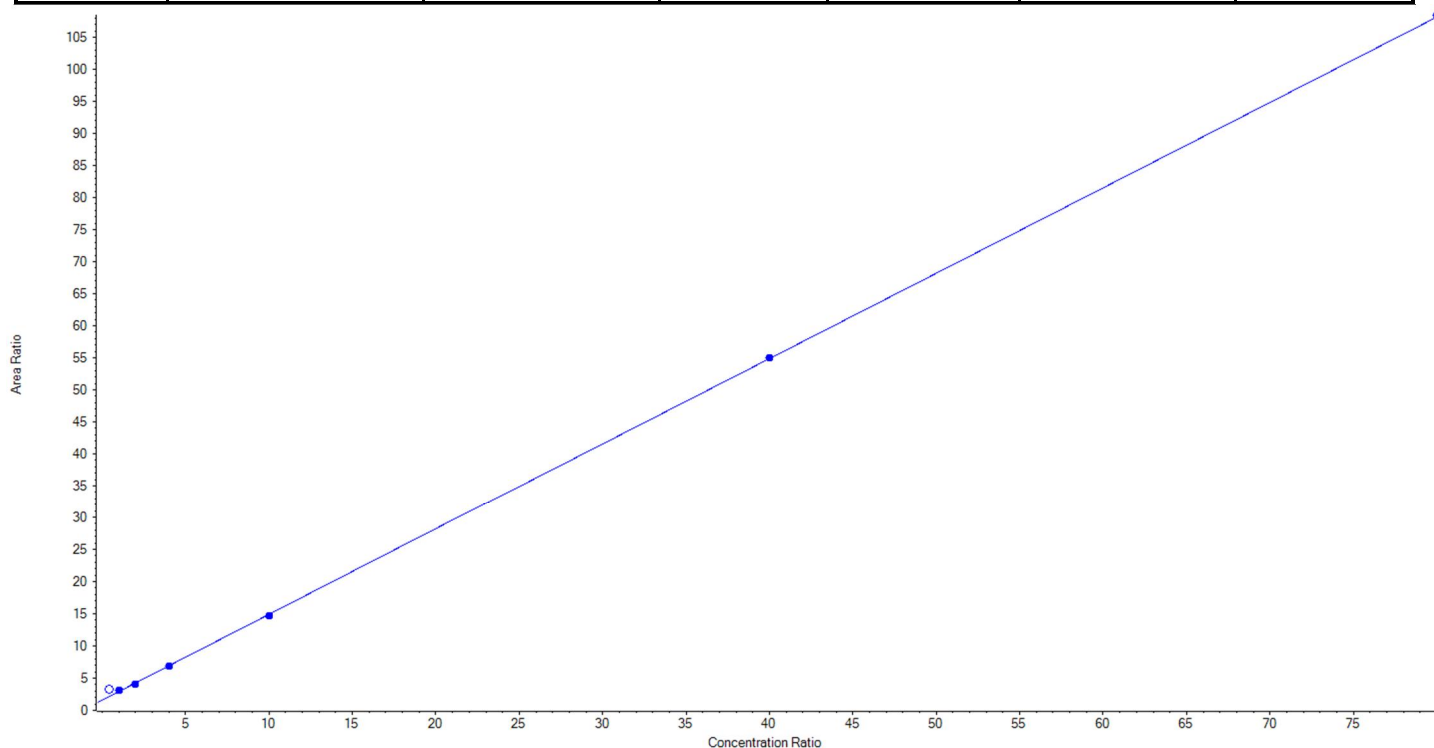
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	False	100.00	< 0	N/A
3	KB74	L2	False	250.00	91.347524	36.5
4	KB75	L3	True	500.00	575.872817	115.2
5	KB76	L4	True	1000.00	854.223413	85.4
6	KB77	L5	True	2500.00	2567.369144	102.7
7	KB78	L6	True	10000.00	9339.131276	93.4
8	KB79	L7	True	20000.00	20663.403349	103.3



<b>Analyte Name</b>	PFBA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	213.0 / 169.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C4-PFBA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.33202x + 1.59771$  ( $r = 0.99985$ ) (weighting:  $1/x$ )

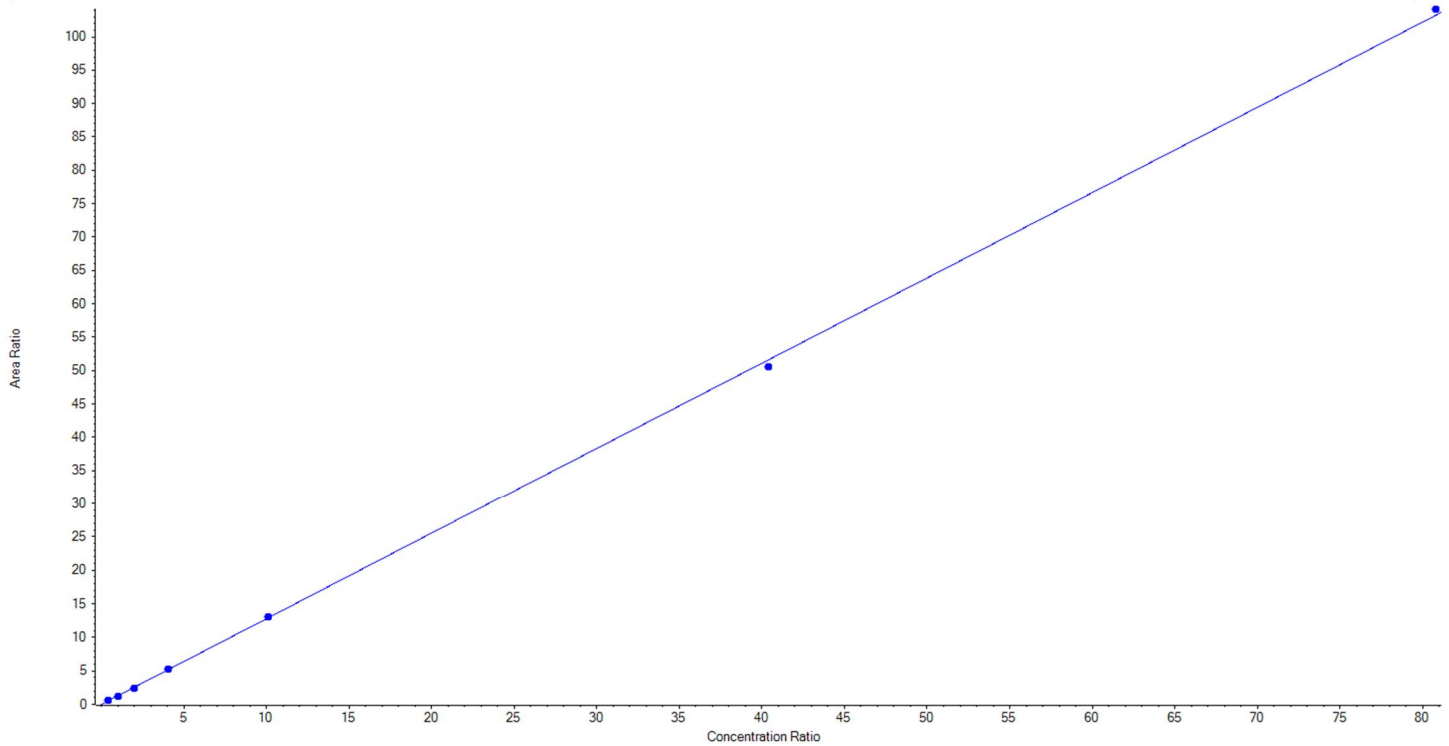
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	False	100.00	323.748990	323.8
3	KB74	L2	True	250.00	277.979881	111.2
4	KB75	L3	True	500.00	452.736792	90.6
5	KB76	L4	True	1000.00	1000.575982	100.1
6	KB77	L5	True	2500.00	2442.772021	97.7
7	KB78	L6	True	10000.00	10022.506720	100.2
8	KB79	L7	True	20000.00	20053.428604	100.3



<b>Analyte Name</b>	PFPeA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	263.0 / 219.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C5-PFPeA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.27776 x + -0.01068$  (r = 0.99985) (weighting: 1 / x)

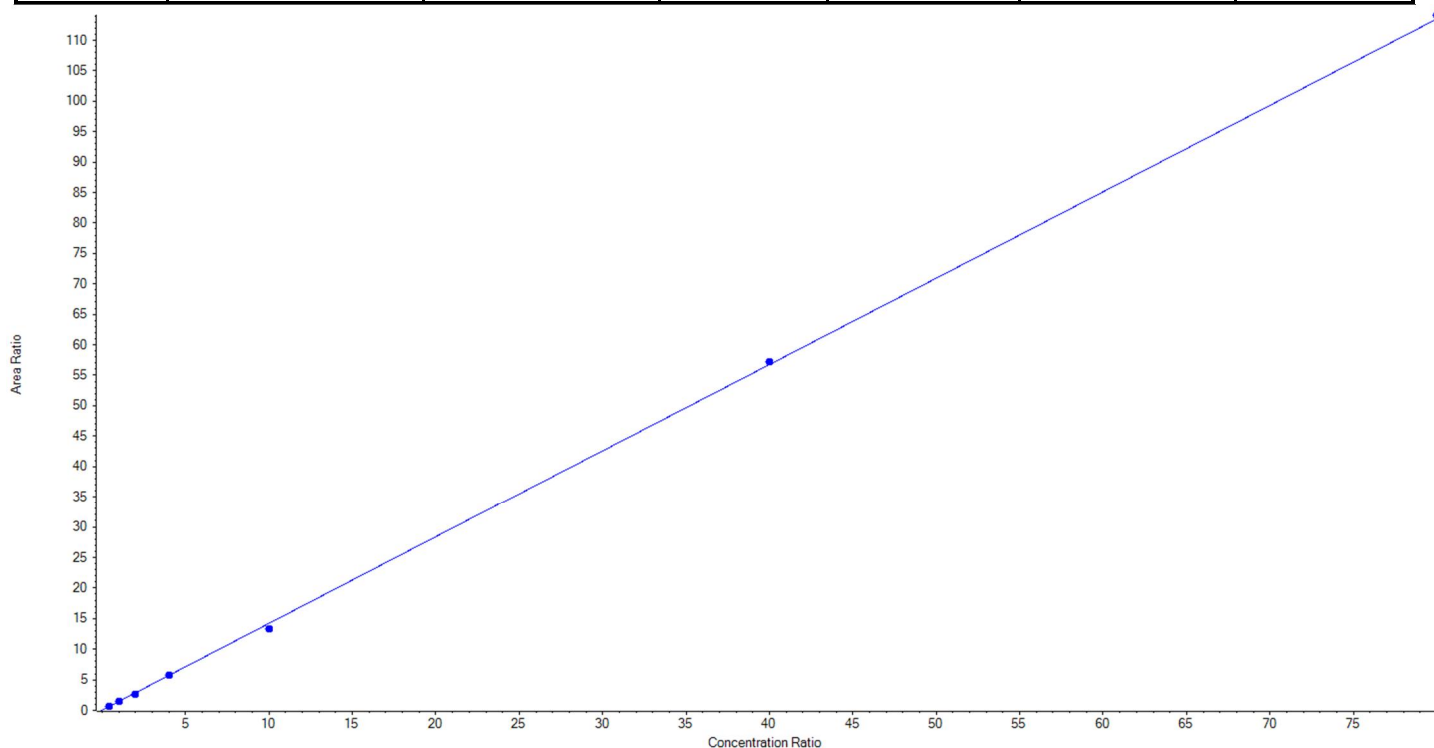
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	110.075435	109.0
3	KB74	L2	True	252.50	238.839403	94.6
4	KB75	L3	True	505.00	474.732280	94.0
5	KB76	L4	True	1010.00	1030.497799	102.0
6	KB77	L5	True	2525.00	2562.506385	101.5
7	KB78	L6	True	10100.00	9901.613883	98.0
8	KB79	L7	True	20200.00	20375.234816	100.9



<b>Analyte Name</b>	PFHpS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	449.0 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C8-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.41815x + 0.03631$  ( $r = 0.99973$ ) (weighting:  $1/x$ )

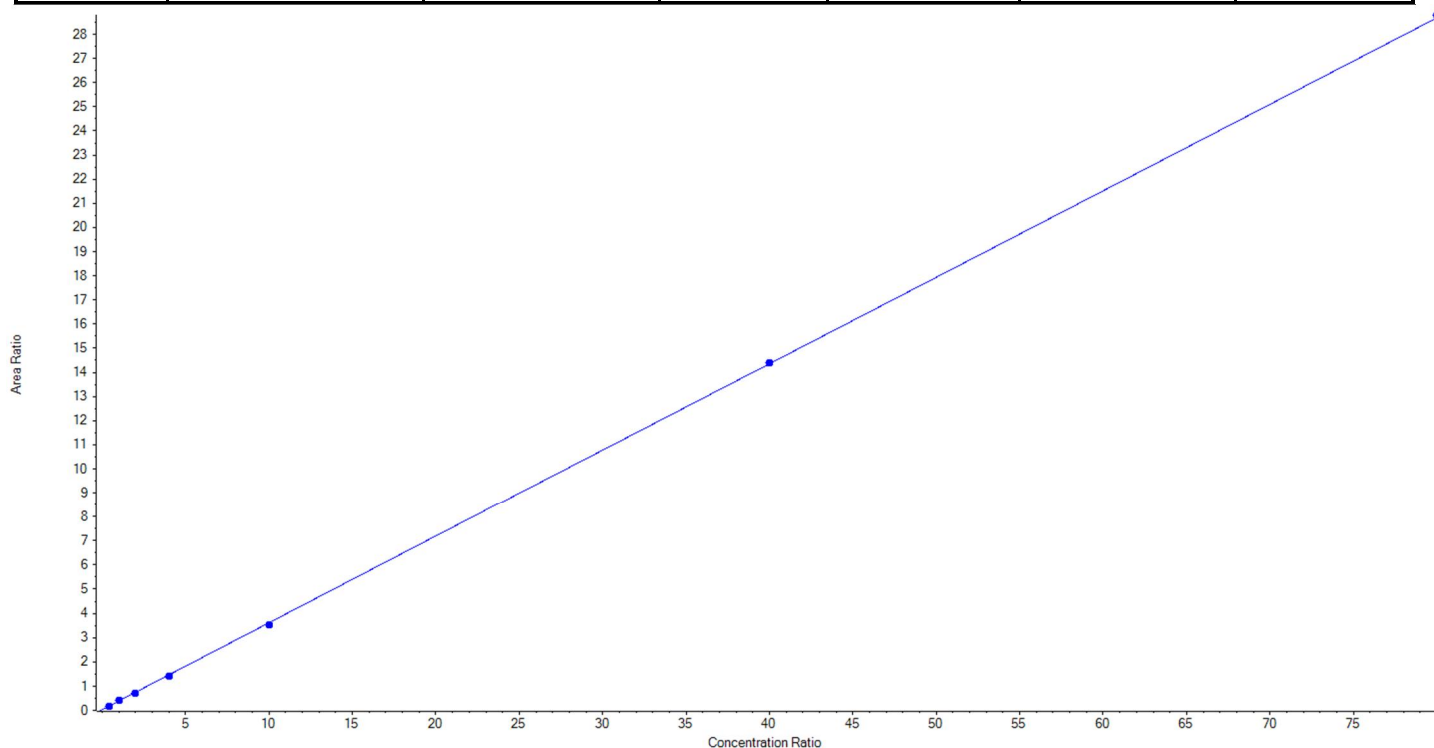
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	111.471696	111.5
3	KB74	L2	True	250.00	255.702148	102.3
4	KB75	L3	True	500.00	454.128740	90.8
5	KB76	L4	True	1000.00	1005.639728	100.6
6	KB77	L5	True	2500.00	2338.743541	93.6
7	KB78	L6	True	10000.00	10077.282401	100.8
8	KB79	L7	True	20000.00	20107.031747	100.5



<b>Analyte Name</b>	PFHpS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	449.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C8-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.35812x + 0.03140$  ( $r = 0.99988$ ) (weighting:  $1/x$ )

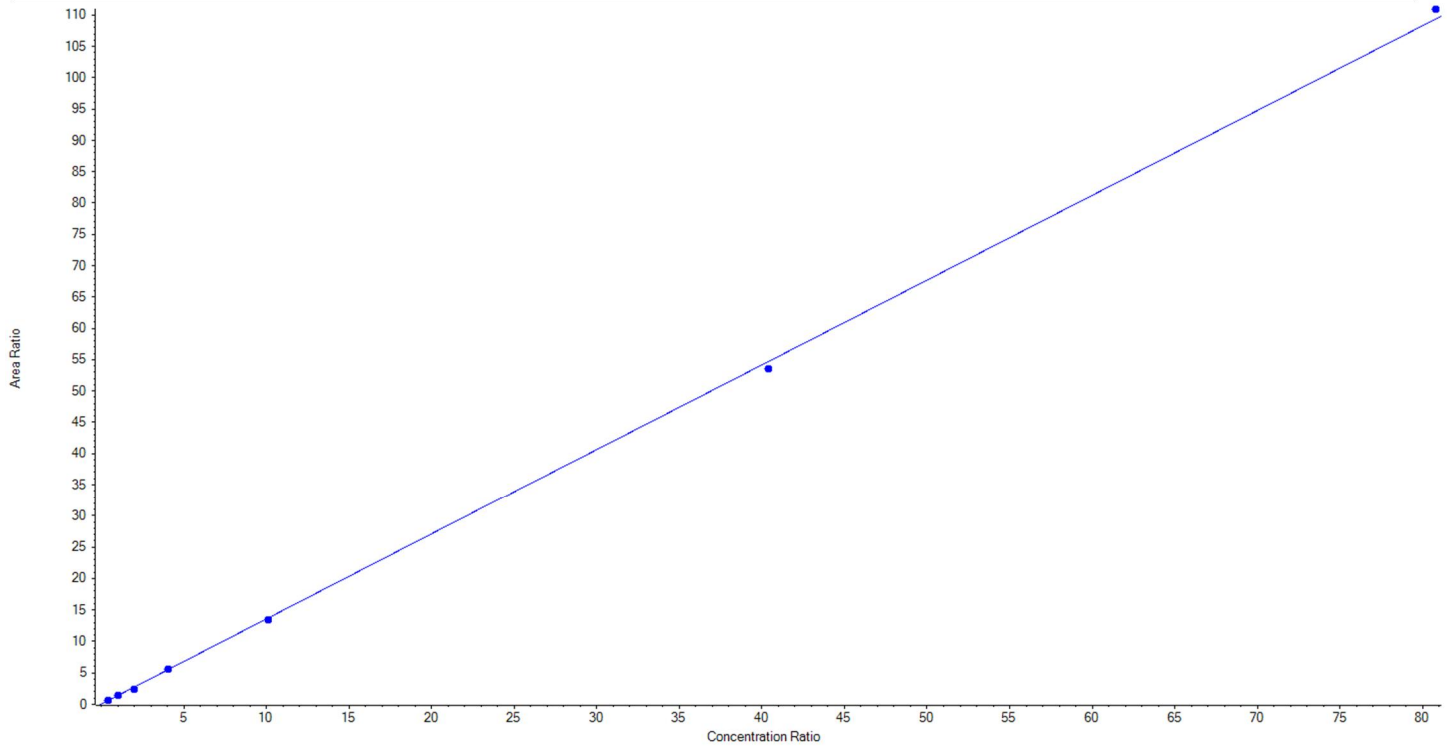
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	105.874416	105.9
3	KB74	L2	True	250.00	267.301202	106.9
4	KB75	L3	True	500.00	456.655211	91.3
5	KB76	L4	True	1000.00	973.222977	97.3
6	KB77	L5	True	2500.00	2448.668895	98.0
7	KB78	L6	True	10000.00	10022.724172	100.2
8	KB79	L7	True	20000.00	20075.553127	100.4



<b>Analyte Name</b>	PFDS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	599.0 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C7-PFUnA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.35318x + 0.03993$  ( $r = 0.99968$ ) (weighting:  $1/x$ )

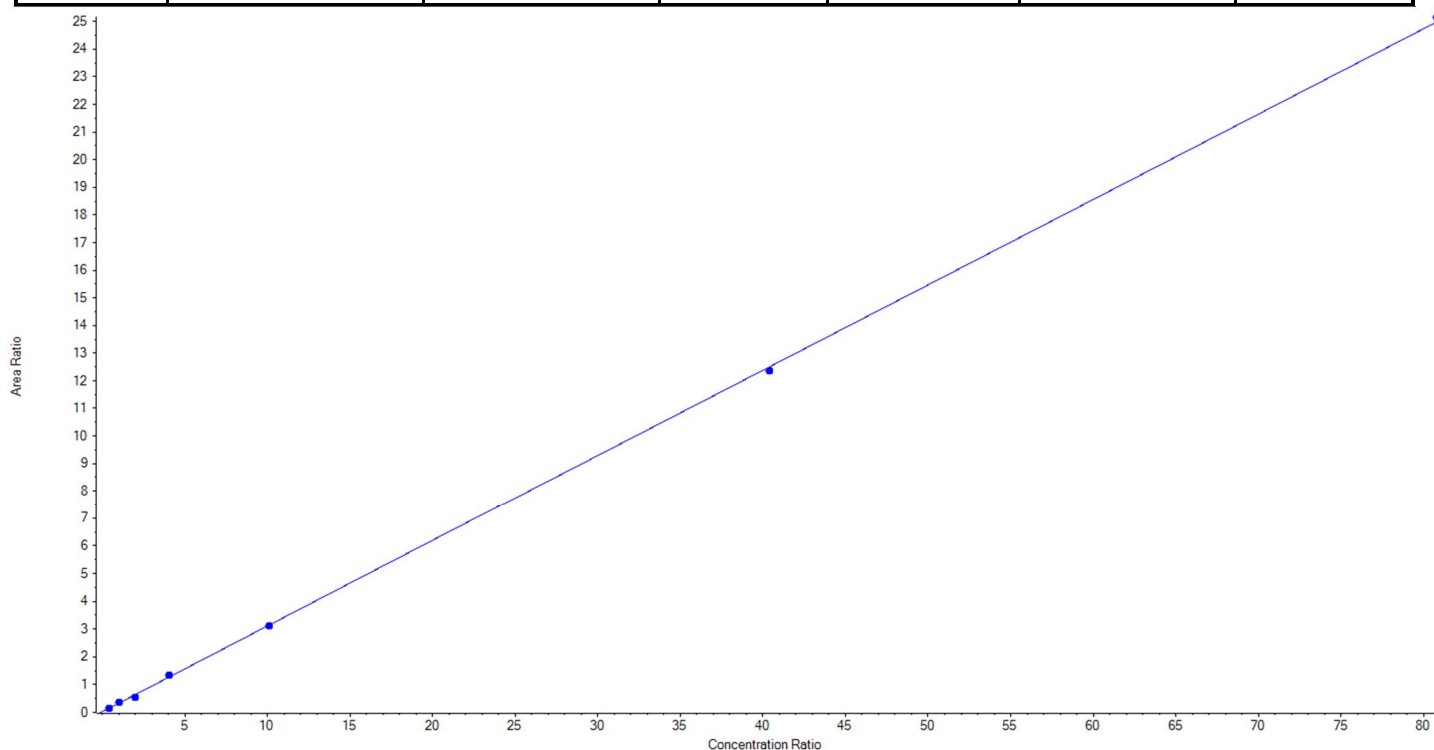
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	111.914501	110.8
3	KB74	L2	True	252.50	259.367429	102.7
4	KB75	L3	True	505.00	437.824513	86.7
5	KB76	L4	True	1010.00	1033.321894	102.3
6	KB77	L5	True	2525.00	2478.494435	98.2
7	KB78	L6	True	10100.00	9887.754435	97.9
8	KB79	L7	True	20200.00	20484.822794	101.4



<b>Analyte Name</b>	PFDS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	599.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C7-PFUnA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.30894 x + 0.02049$  ( $r = 0.99975$ ) (weighting:  $1 / x$ )

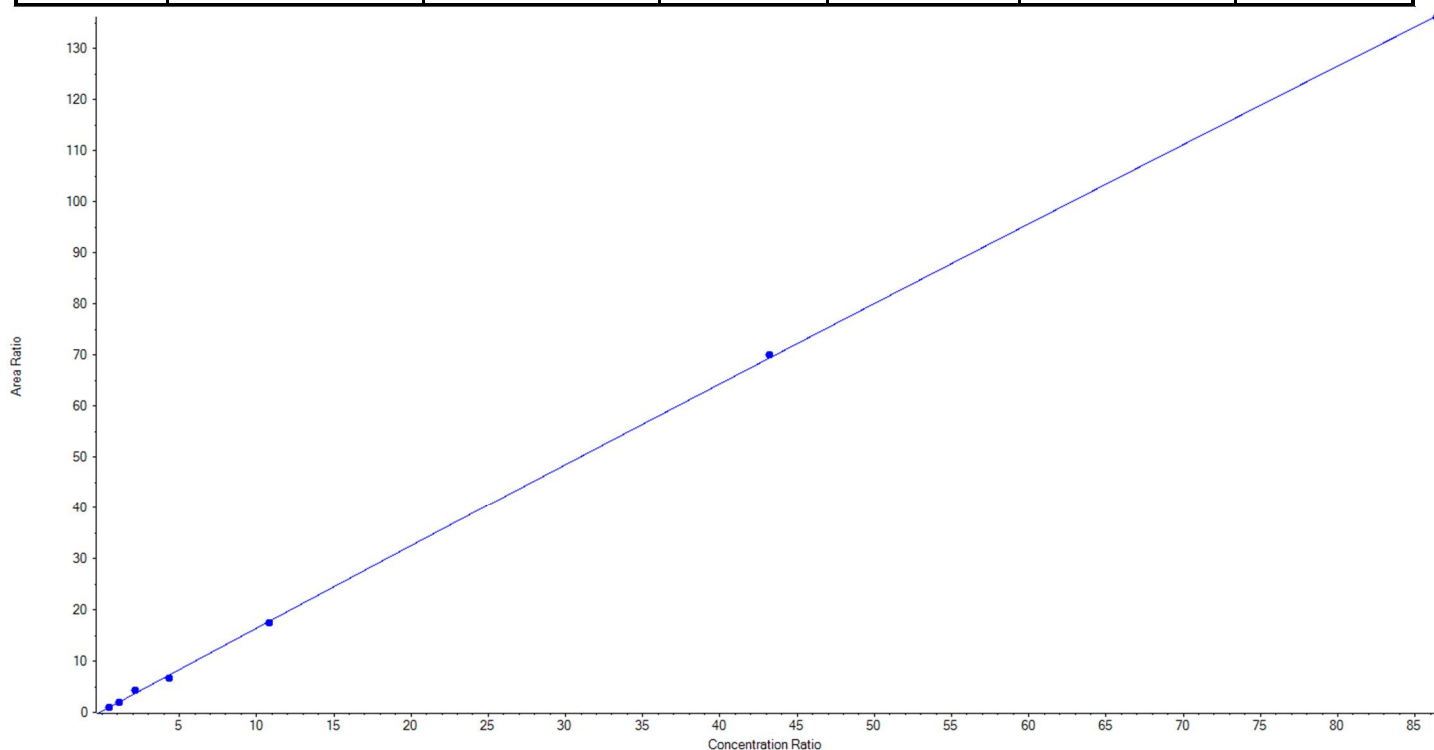
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	105.391068	104.4
3	KB74	L2	True	252.50	266.085456	105.4
4	KB75	L3	True	505.00	435.796282	86.3
5	KB76	L4	True	1010.00	1063.966186	105.3
6	KB77	L5	True	2525.00	2502.668394	99.1
7	KB78	L6	True	10100.00	9982.835100	98.8
8	KB79	L7	True	20200.00	20336.757514	100.7



<b>Analyte Name</b>	4:2FTS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	327.0 / 307.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-4:2FTS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = -5.84999e-4 x^2 + 1.62589 x + 0.22497$  (r = 0.99972) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	96.393062	95.4
3	KB74	L2	True	252.50	250.209429	99.1
4	KB75	L3	True	505.00	574.918086	113.9
5	KB76	L4	True	1010.00	931.714716	92.3
6	KB77	L5	True	2525.00	2492.779722	98.7
7	KB78	L6	True	10100.00	10184.456210	100.8
8	KB79	L7	True	20200.00	20162.997005	99.8

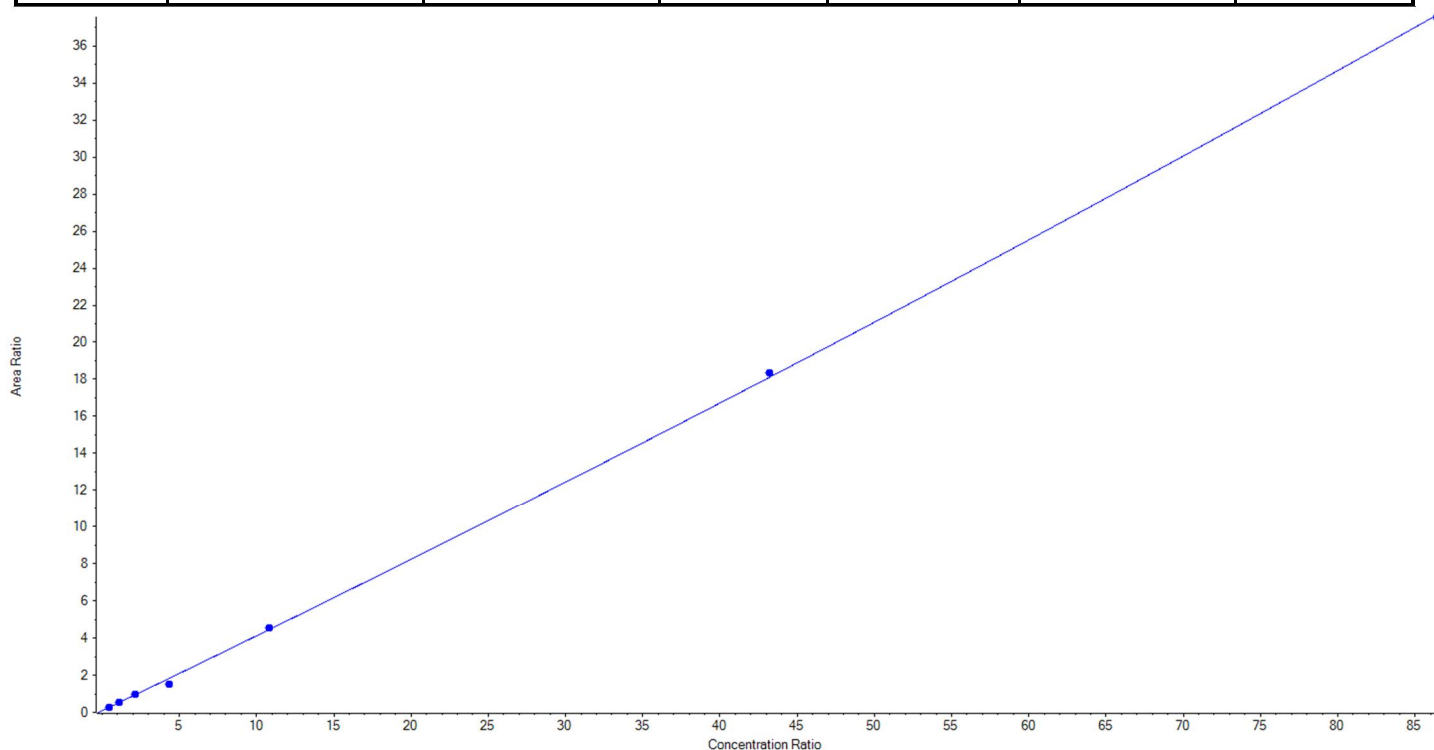




<b>Analyte Name</b>	4:2FTS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	327.0 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-4:2FTS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 4.17803e-4 x^2 + 0.39891 x + 0.09025$  (r = 0.99953) (weighting: 1 / x)

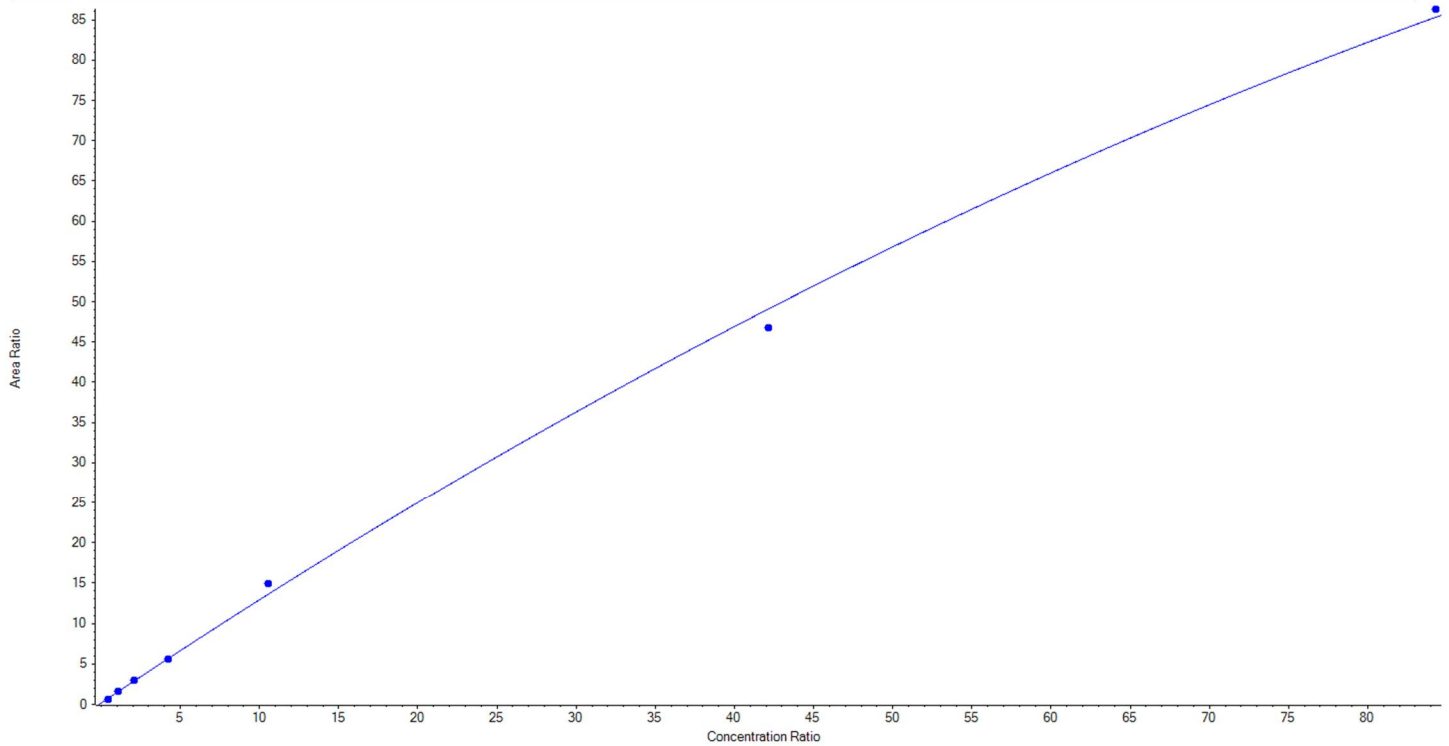
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	104.205272	103.2
3	KB74	L2	True	252.50	278.101780	110.1
4	KB75	L3	True	505.00	501.283737	99.3
5	KB76	L4	True	1010.00	844.714629	83.6
6	KB77	L5	True	2525.00	2595.656908	102.8
7	KB78	L6	True	10100.00	10228.657799	101.3
8	KB79	L7	True	20200.00	20139.755471	99.7



<b>Analyte Name</b>	6:2FTS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	427.0 / 407.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-6:2FTS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = -0.00357 x^2 + 1.31140 x + 0.16934$  (r = 0.99898) (weighting: 1 / x)

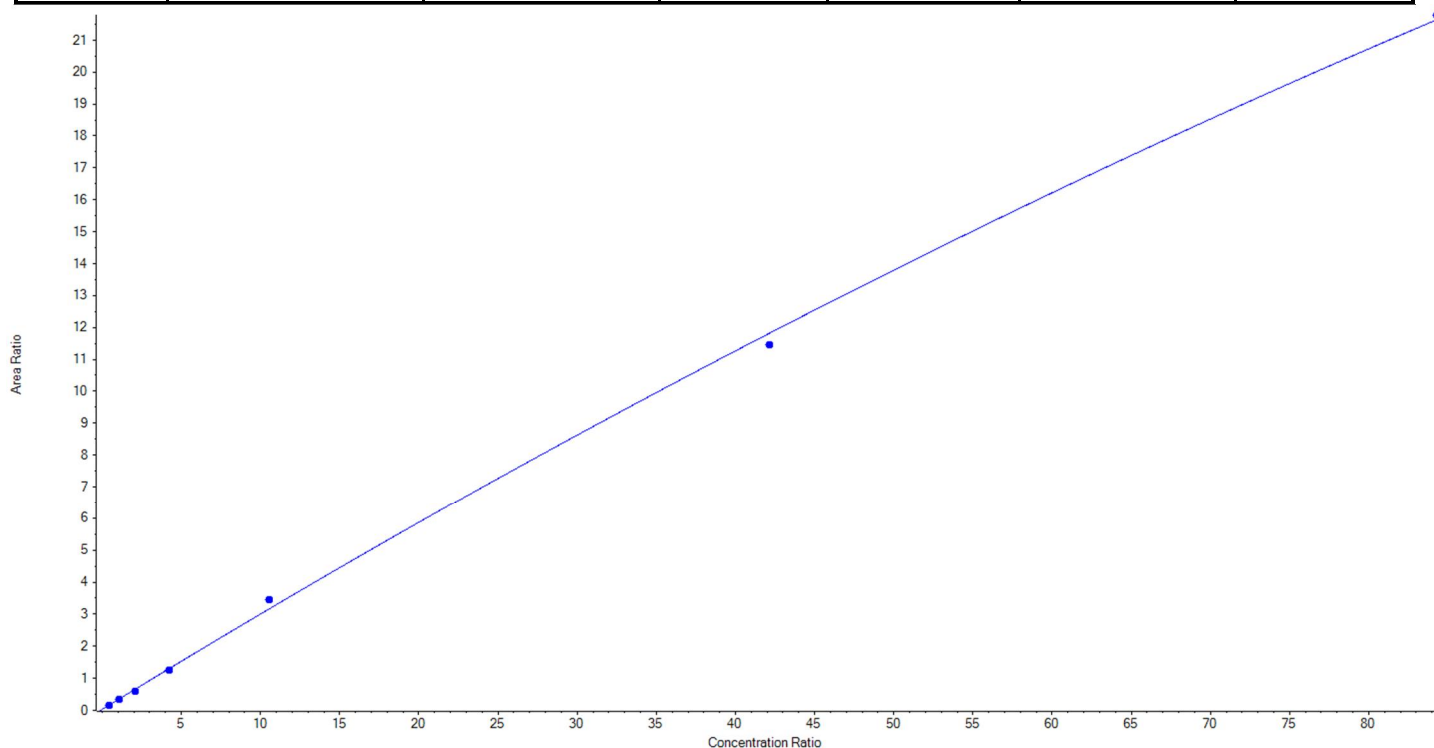
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	89.677932	89.7
3	KB74	L2	True	250.00	255.678287	102.3
4	KB75	L3	True	500.00	513.985188	102.8
5	KB76	L4	True	1000.00	989.303496	98.9
6	KB77	L5	True	2500.00	2755.605512	110.2
7	KB78	L6	True	10000.00	9461.565487	94.6
8	KB79	L7	True	20000.00	20333.866016	101.7



<b>Analyte Name</b>	6:2FTS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	427.0 / 81.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-6:2FTS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = -5.52638e-4 x^2 + 0.30293 x + 0.03115$  (r = 0.99932) (weighting: 1 / x)

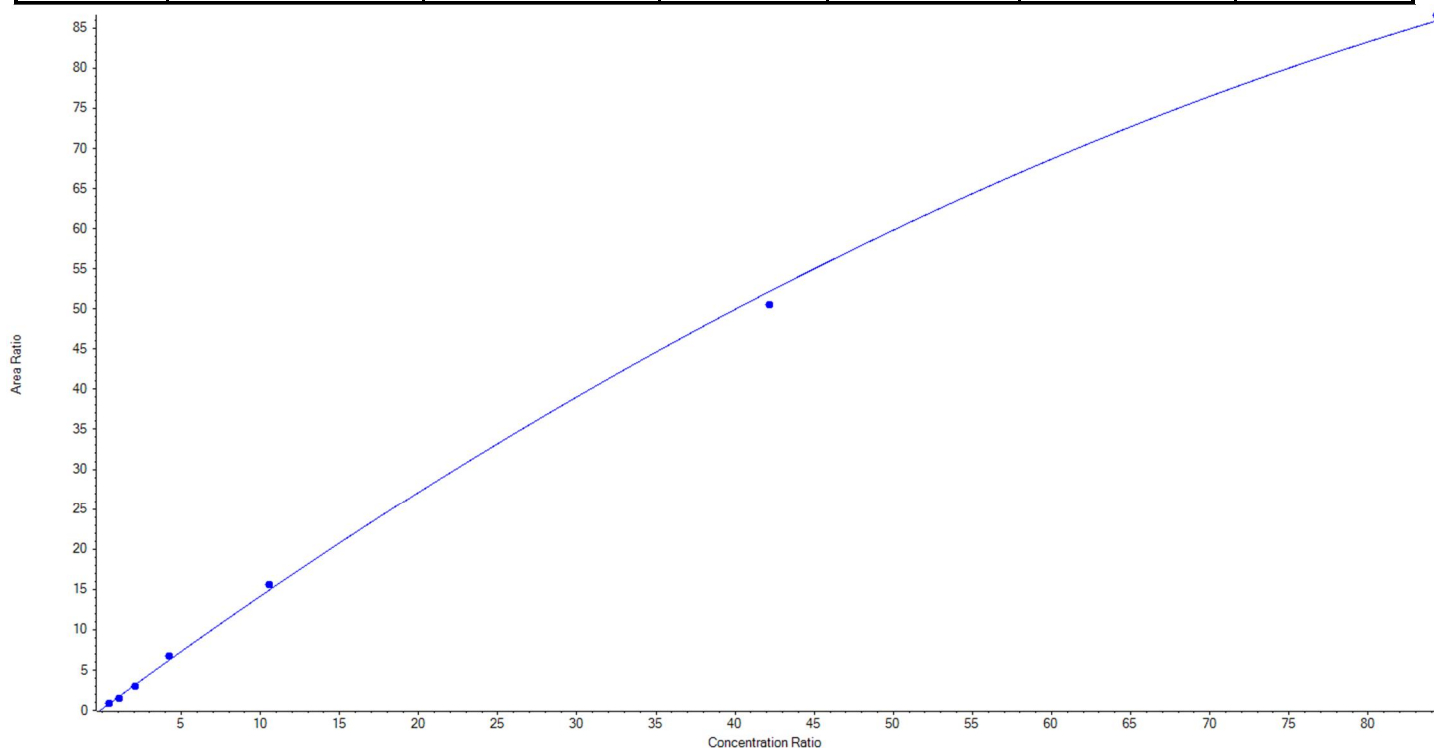
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	105.247563	105.3
3	KB74	L2	True	250.00	247.622223	99.1
4	KB75	L3	True	500.00	454.780124	91.0
5	KB76	L4	True	1000.00	978.000110	97.8
6	KB77	L5	True	2500.00	2734.948700	109.4
7	KB78	L6	True	10000.00	9679.898466	96.8
8	KB79	L7	True	20000.00	20158.930267	100.8



<b>Analyte Name</b>	8:2FTS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	527.0 / 507.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-8:2 FTS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = -0.00514 x^2 + 1.44970 x + 0.17736$  (r = 0.99938) (weighting: 1 / x)

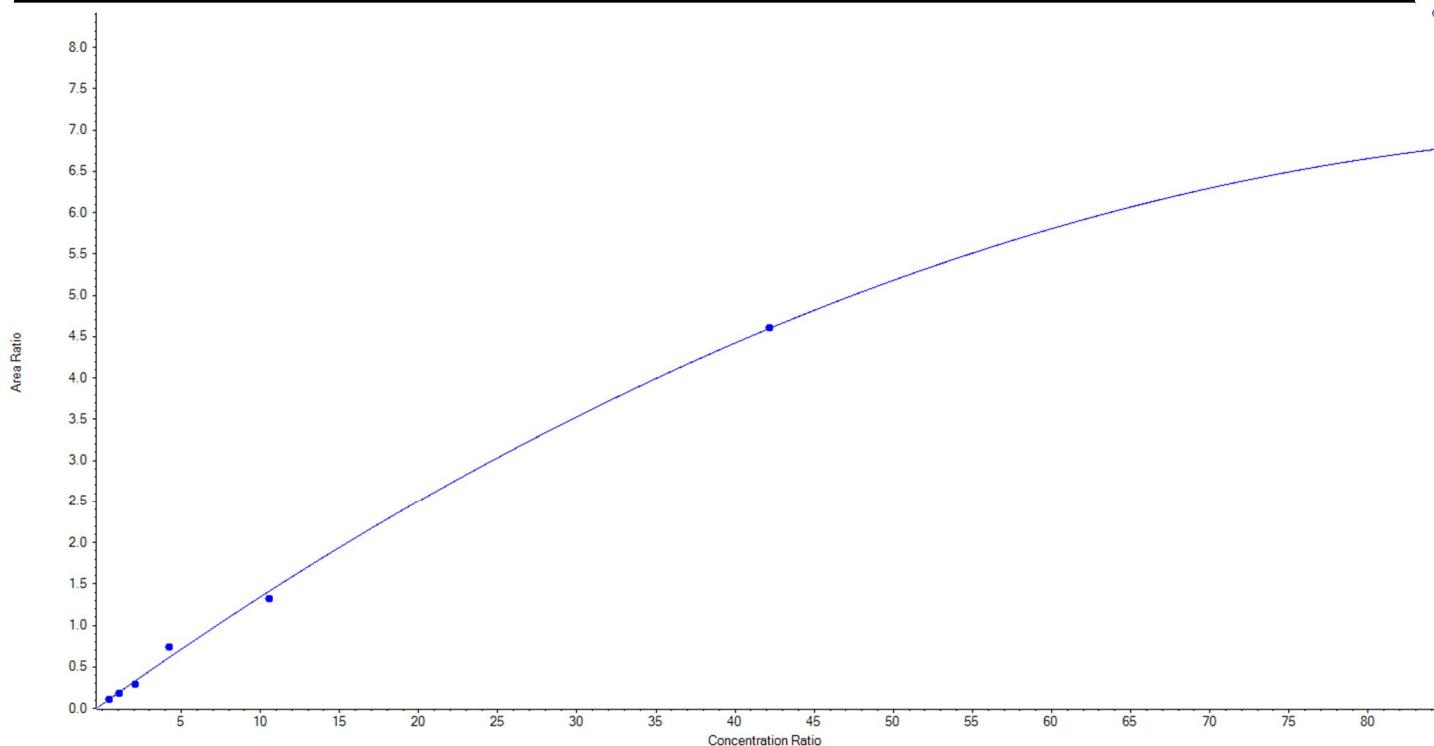
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	105.772851	104.7
3	KB74	L2	True	252.50	227.155113	90.0
4	KB75	L3	True	505.00	477.778650	94.6
5	KB76	L4	True	1010.00	1094.186929	108.3
6	KB77	L5	True	2525.00	2648.770348	104.9
7	KB78	L6	True	10100.00	9728.525978	96.3
8	KB79	L7	True	20200.00	20486.159944	101.4



<b>Analyte Name</b>	8:2FTS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	527.0 / 487.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C2-8:2 FTS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = -6.68893e-4 x^2 + 0.13608 x + 0.04910$  ( $r = 0.99563$ ) (weighting:  $1 / x$ )

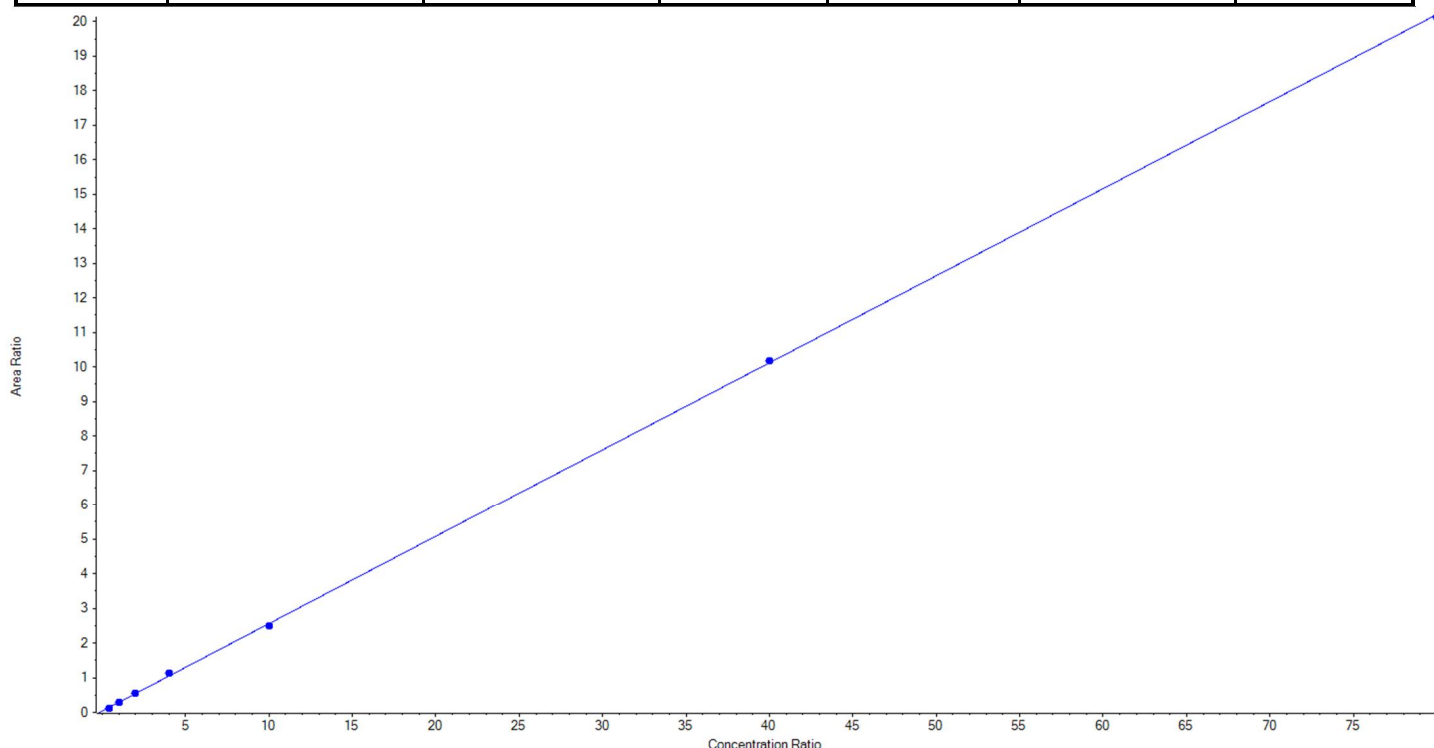
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	105.935514	104.9
3	KB74	L2	True	252.50	237.139434	93.9
4	KB75	L3	True	505.00	426.636614	84.5
5	KB76	L4	True	1010.00	1249.828356	123.8
6	KB77	L5	True	2525.00	2343.014931	92.8
7	KB78	L6	True	10100.00	10138.065596	100.4
8	KB79	L7	False	20200.00	no root	N/A



<b>Analyte Name</b>	PFPeS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	349.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C5-PFHxA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.25210 x + 0.03783$  ( $r = 0.99982$ ) (weighting:  $1 / x$ )

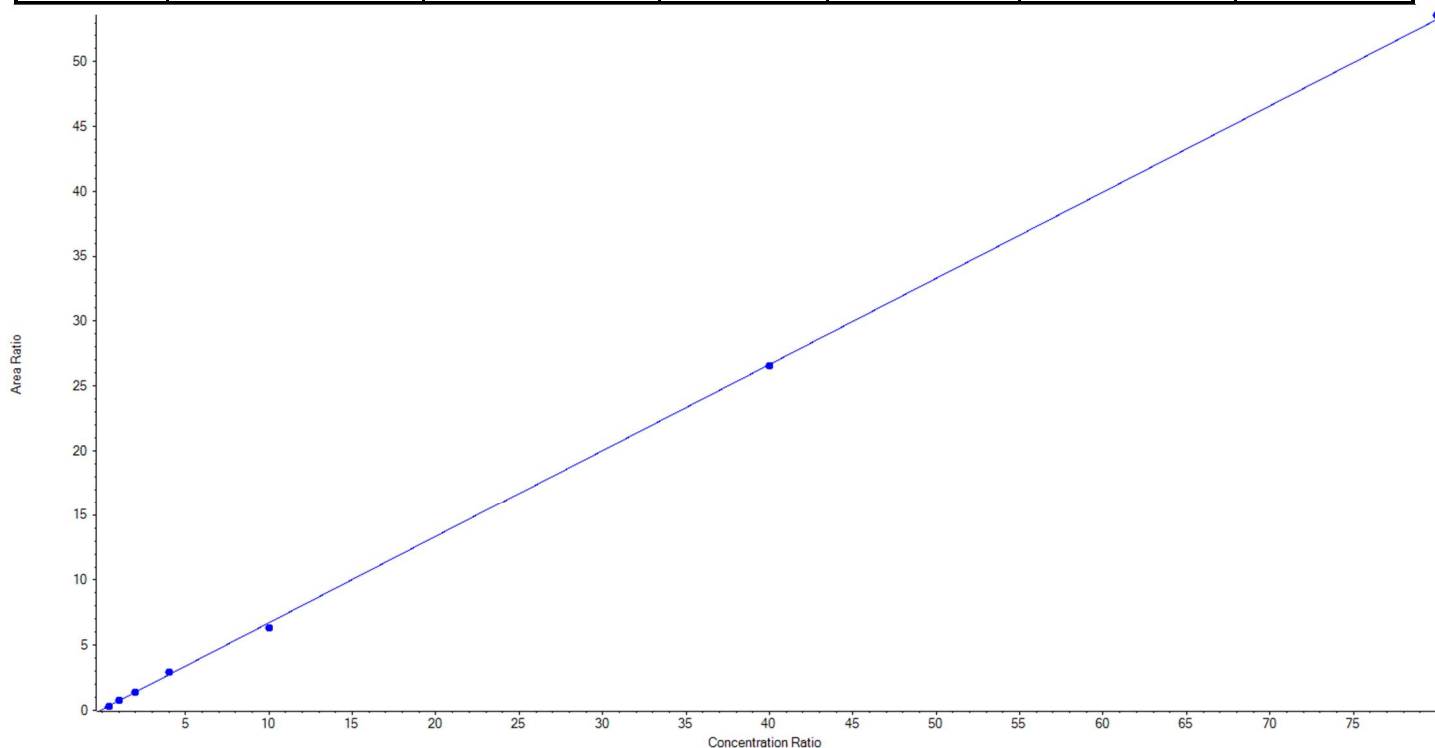
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	91.617177	91.6
3	KB74	L2	True	250.00	252.281280	100.9
4	KB75	L3	True	500.00	505.966643	101.2
5	KB76	L4	True	1000.00	1088.370190	108.8
6	KB77	L5	True	2500.00	2430.892628	97.2
7	KB78	L6	True	10000.00	10059.979486	100.6
8	KB79	L7	True	20000.00	19920.892596	99.6



<b>Analyte Name</b>	PFPeS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	349.0 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C5-PFHxA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.66466 x + 0.07558$  ( $r = 0.99973$ ) (weighting:  $1 / x$ )

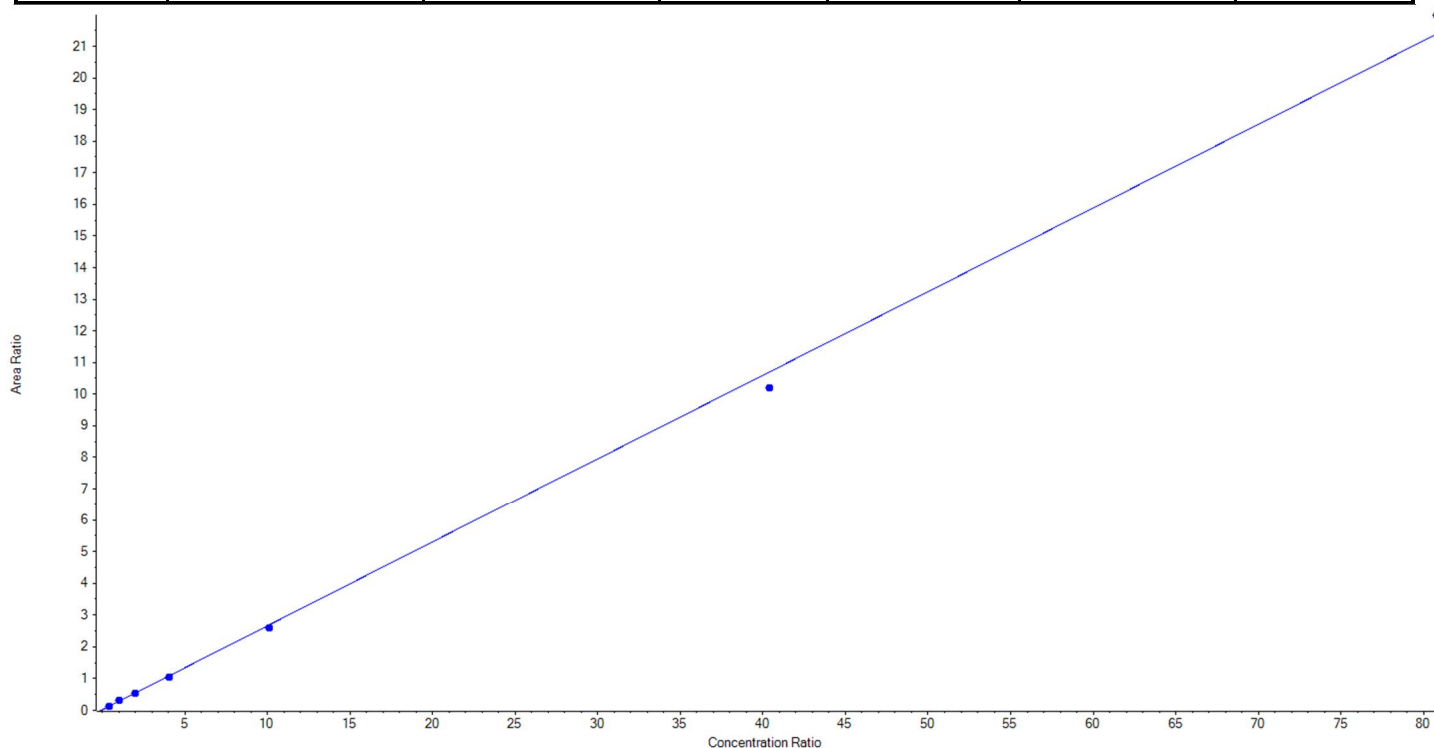
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	100.00	91.535739	91.5
3	KB74	L2	True	250.00	274.305996	109.7
4	KB75	L3	True	500.00	491.366490	98.3
5	KB76	L4	True	1000.00	1063.007149	106.3
6	KB77	L5	True	2500.00	2349.885203	94.0
7	KB78	L6	True	10000.00	9954.588914	99.6
8	KB79	L7	True	20000.00	20125.310509	100.6



<b>Analyte Name</b>	PFNS_1	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	549.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C6-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.26449x + 0.01645$  ( $r = 0.99931$ ) (weighting:  $1/x$ )

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	99.377409	98.4
3	KB74	L2	True	252.50	278.495355	110.3
4	KB75	L3	True	505.00	505.304674	100.1
5	KB76	L4	True	1010.00	972.785261	96.3
6	KB77	L5	True	2525.00	2443.650363	96.8
7	KB78	L6	True	10100.00	9633.907735	95.4
8	KB79	L7	True	20200.00	20759.979203	102.8

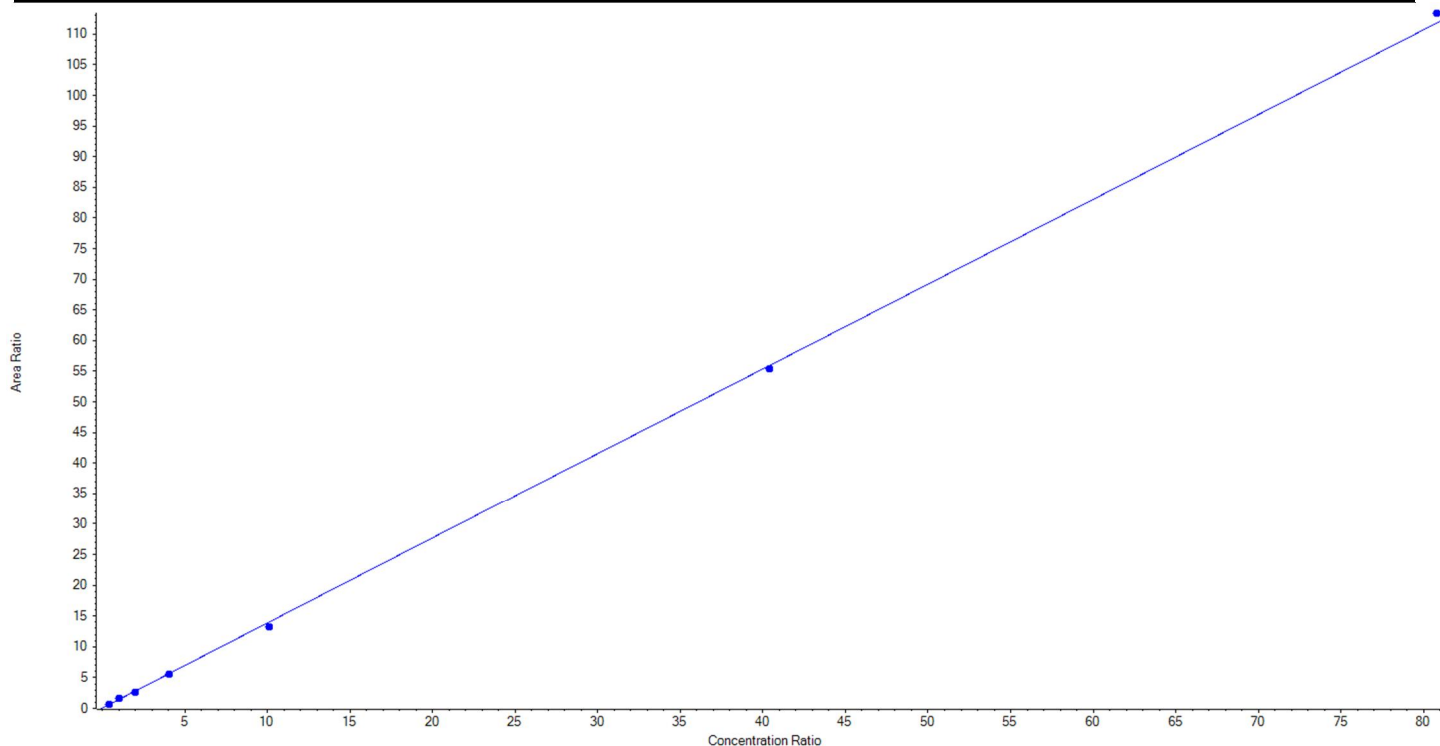




<b>Analyte Name</b>	PFNS_2	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	549.0 / 80.0	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Internal Standard</b>	13C6-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.38327 x + 0.04030$  ( $r = 0.99969$ ) (weighting:  $1 / x$ )

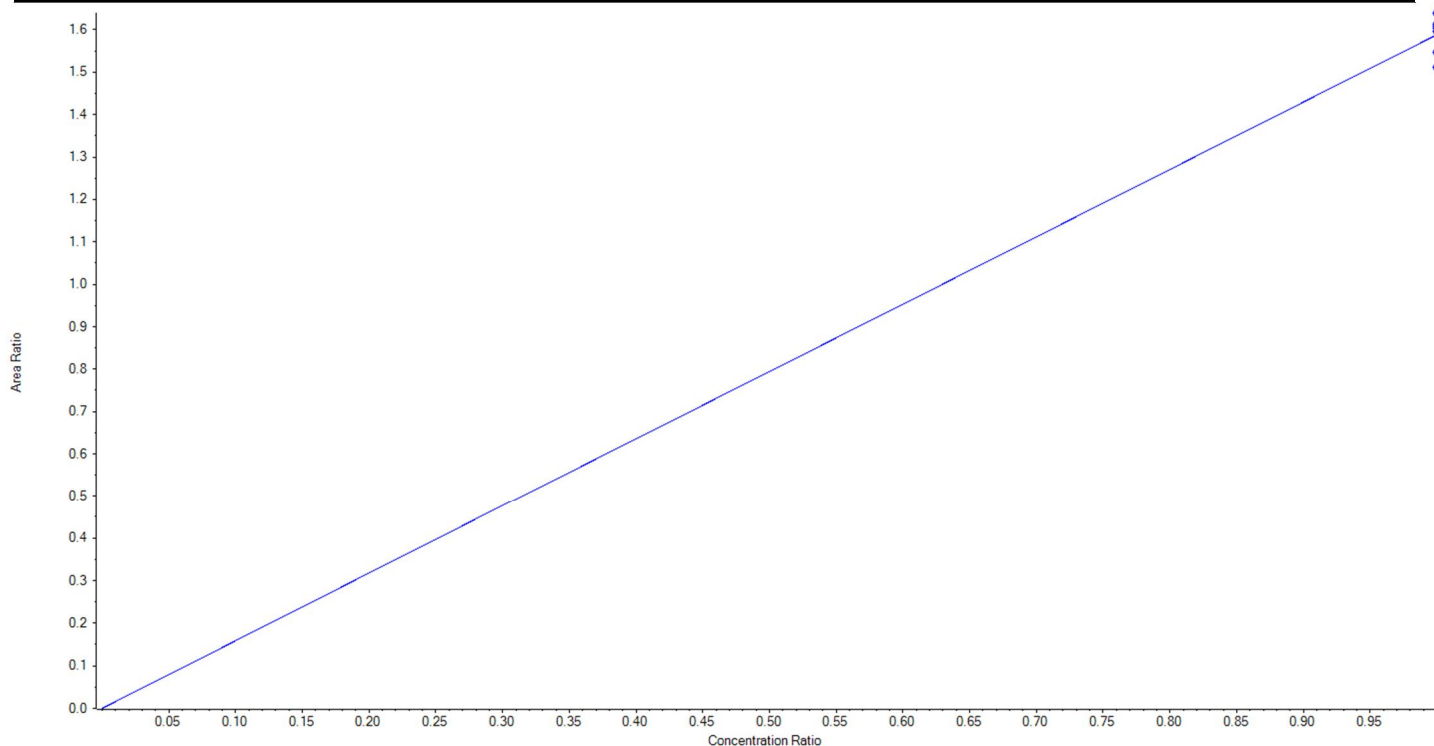
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	101.00	103.968941	102.9
3	KB74	L2	True	252.50	279.971110	110.9
4	KB75	L3	True	505.00	478.179343	94.7
5	KB76	L4	True	1010.00	982.522802	97.3
6	KB77	L5	True	2525.00	2369.978474	93.9
7	KB78	L6	True	10100.00	9992.186108	98.9
8	KB79	L7	True	20200.00	20486.693223	101.4



<b>Analyte Name</b>	13C4-PFBA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	217.0 / 172.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C3-PFBA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.58834 x$  (std. dev. = 0.04360) (weighting: 1 / x)

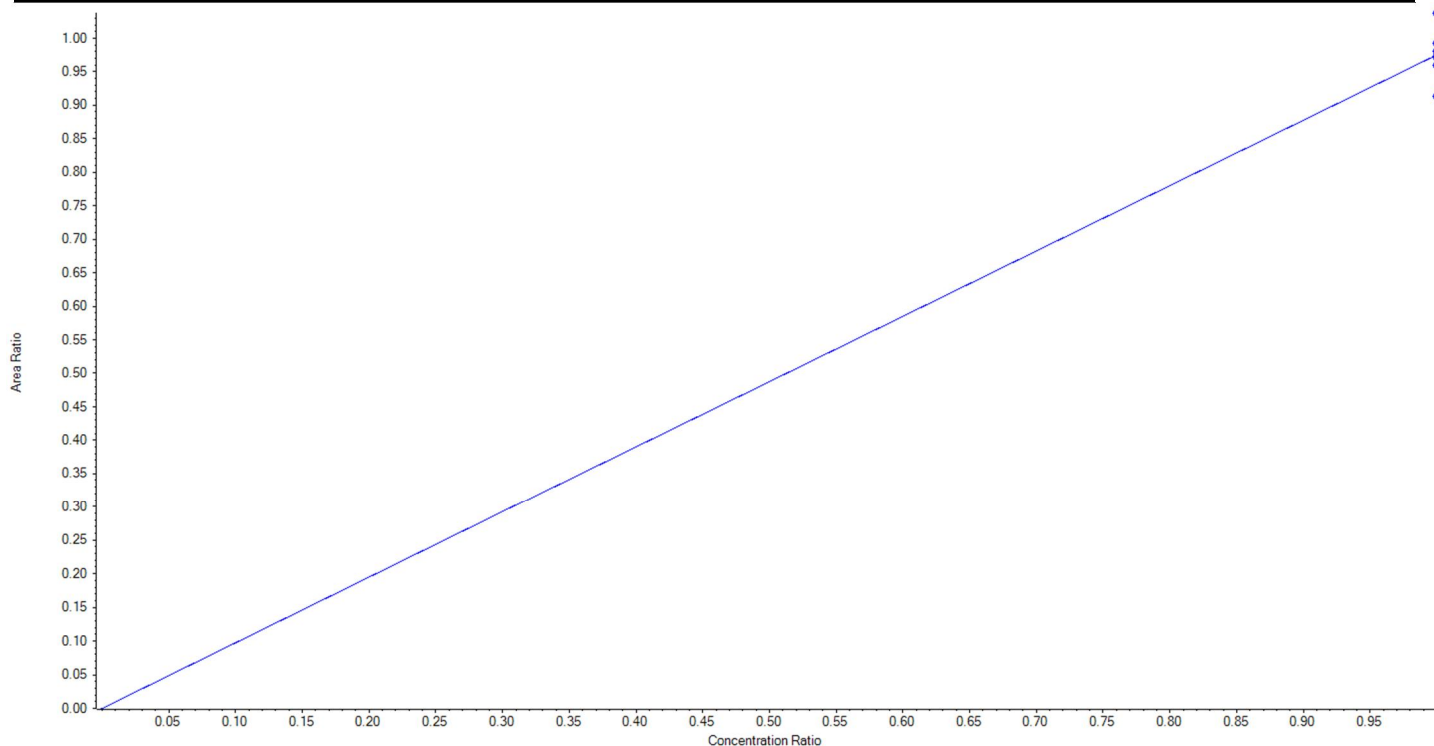
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	253.988694	101.6
3	KB74	L2	True	250.00	257.966792	103.2
4	KB75	L3	True	250.00	243.515211	97.4
5	KB76	L4	True	250.00	237.941500	95.2
6	KB77	L5	True	250.00	252.965040	101.2
7	KB78	L6	True	250.00	251.402877	100.6
8	KB79	L7	True	250.00	252.219887	100.9



<b>Analyte Name</b>	13C2-PFDoA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	615.0 / 570.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.97505 x$  (std. dev. = 0.03727) (weighting: 1 / x)

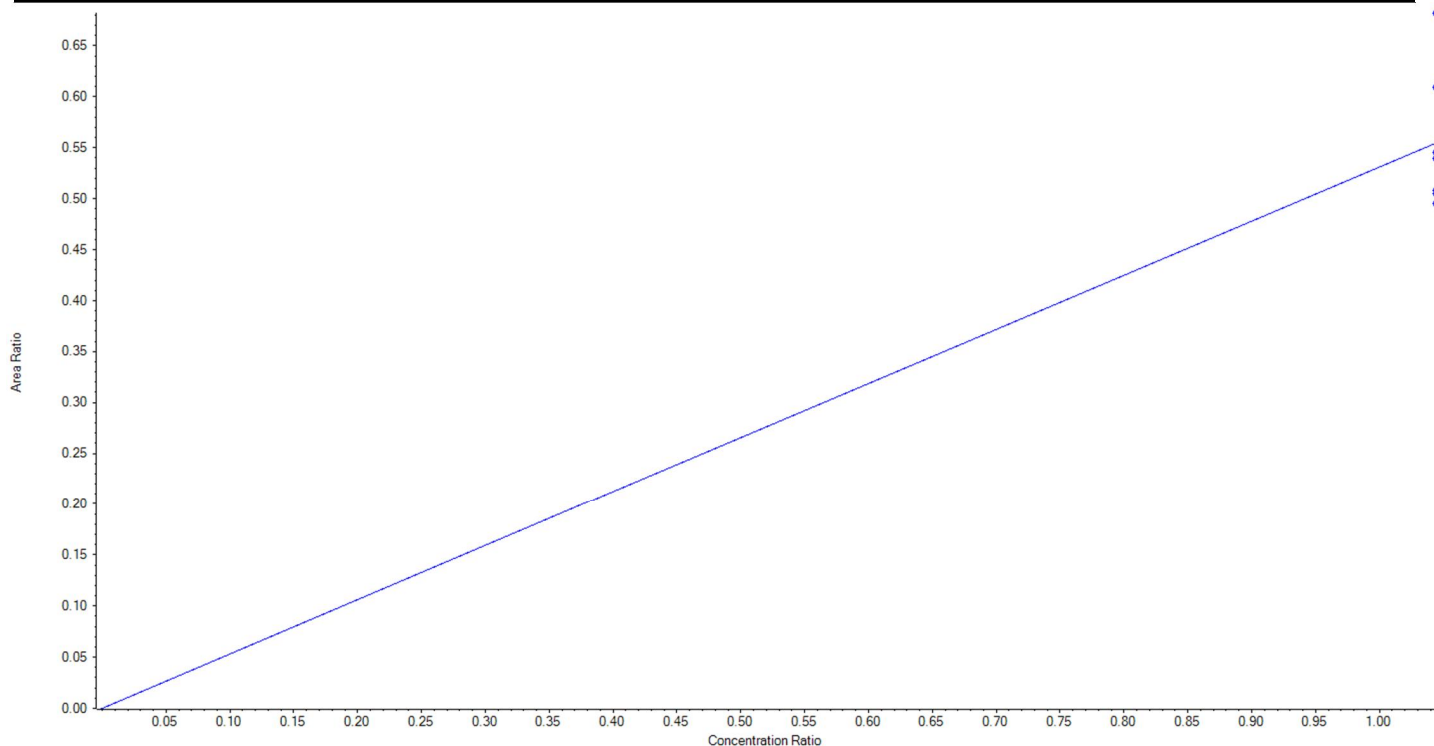
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	234.027671	93.6
3	KB74	L2	True	250.00	265.932266	106.4
4	KB75	L3	True	250.00	249.447374	99.8
5	KB76	L4	True	250.00	245.945631	98.4
6	KB77	L5	True	250.00	248.975274	99.6
7	KB78	L6	True	250.00	251.235272	100.5
8	KB79	L7	True	250.00	254.436513	101.8



<b>Analyte Name</b>	d3-MeFOSAA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	573.0 / 419.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.53102 x$  (std. dev. = 0.06498) (weighting: 1 / x)

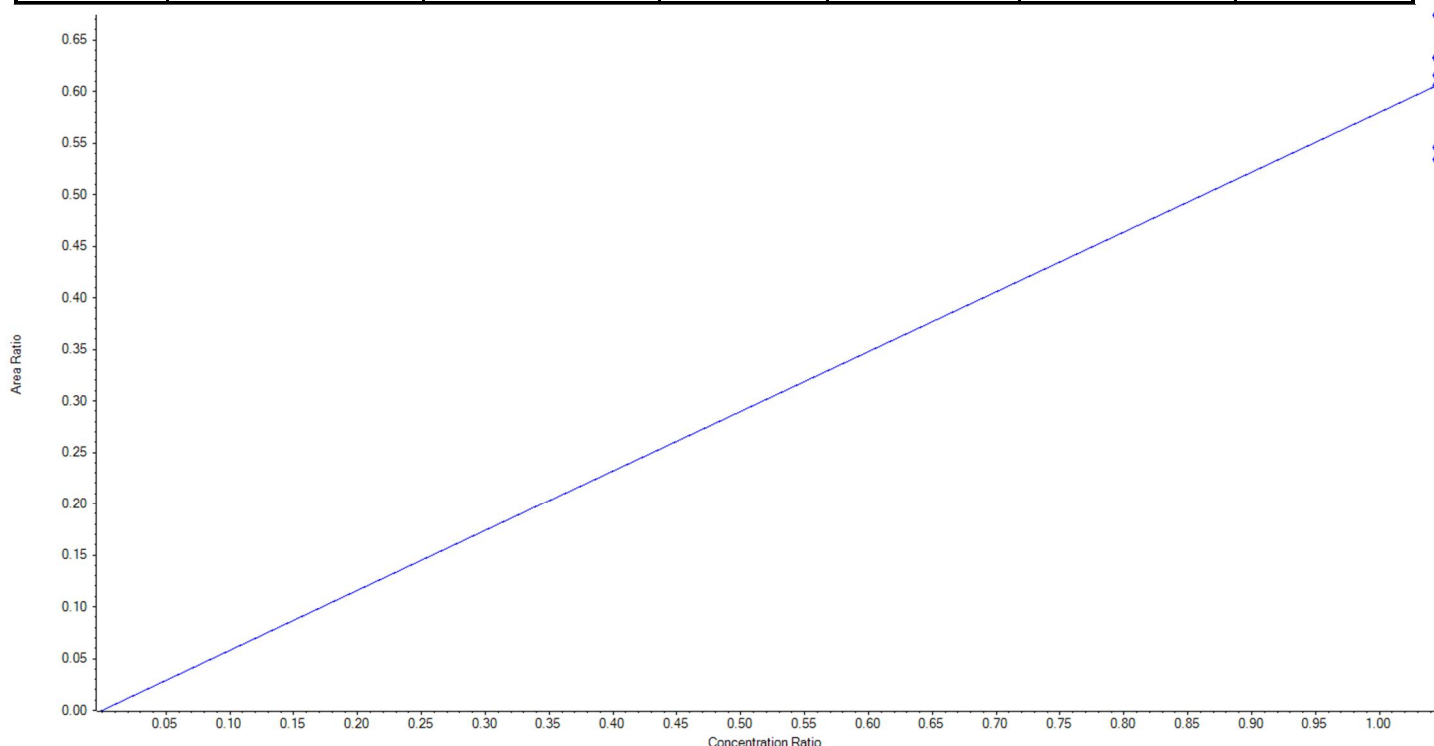
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	243.102584	97.2
3	KB74	L2	True	250.00	228.792666	91.5
4	KB75	L3	True	250.00	245.689732	98.3
5	KB76	L4	True	250.00	223.328296	89.3
6	KB77	L5	True	250.00	227.365315	91.0
7	KB78	L6	True	250.00	274.494088	109.8
8	KB79	L7	True	250.00	307.227320	122.9



<b>Analyte Name</b>	d5-EtFOSAA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	589.0 / 419.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.57975 x$  (std. dev. = 0.04771) (weighting: 1 / x)

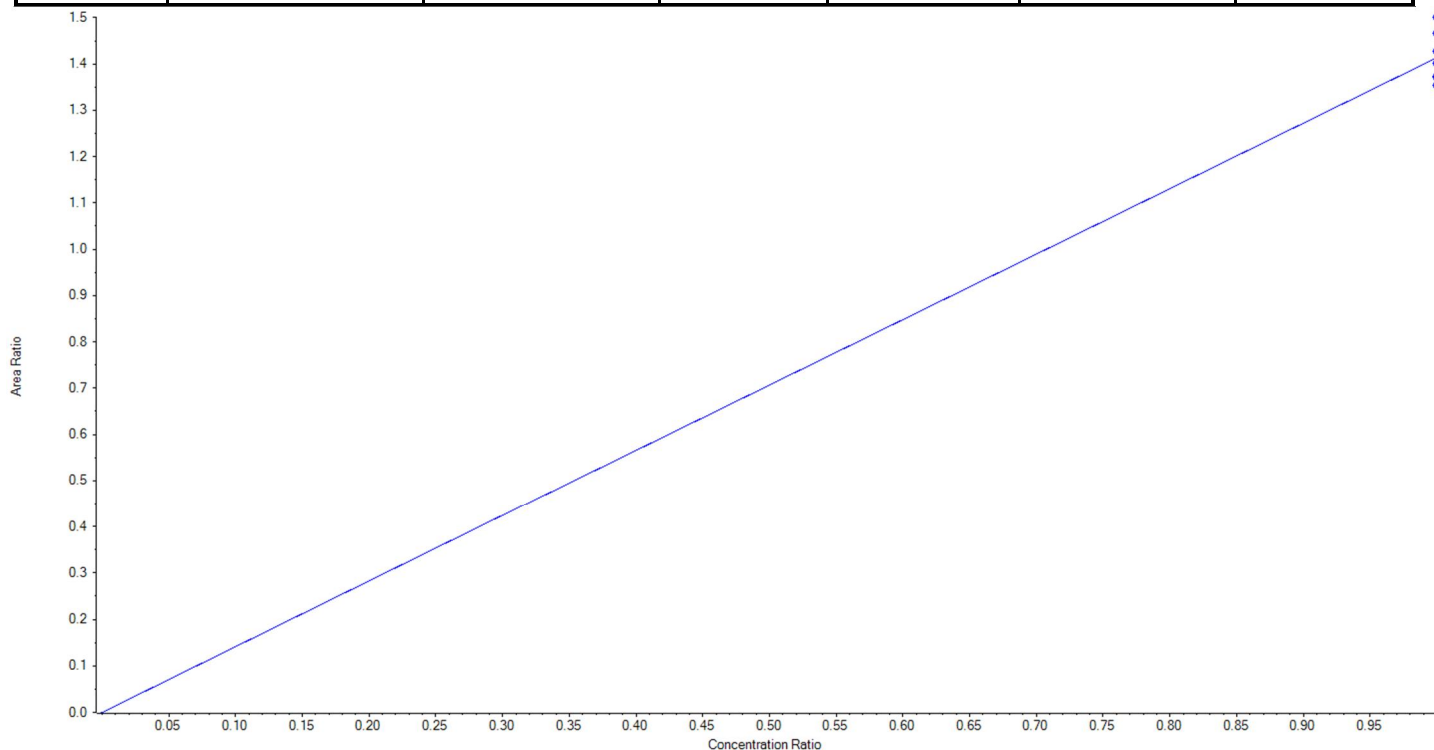
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	261.116785	104.5
3	KB74	L2	True	250.00	260.842878	104.3
4	KB75	L3	True	250.00	225.192349	90.1
5	KB76	L4	True	250.00	254.251713	101.7
6	KB77	L5	True	250.00	220.425706	88.2
7	KB78	L6	True	250.00	278.106701	111.2
8	KB79	L7	True	250.00	250.063868	100.0



<b>Analyte Name</b>	13C5-PFPeA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	268.0 / 223.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C3-PFBA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.41351 x$  (std. dev. = 0.05435) (weighting: 1 / x)

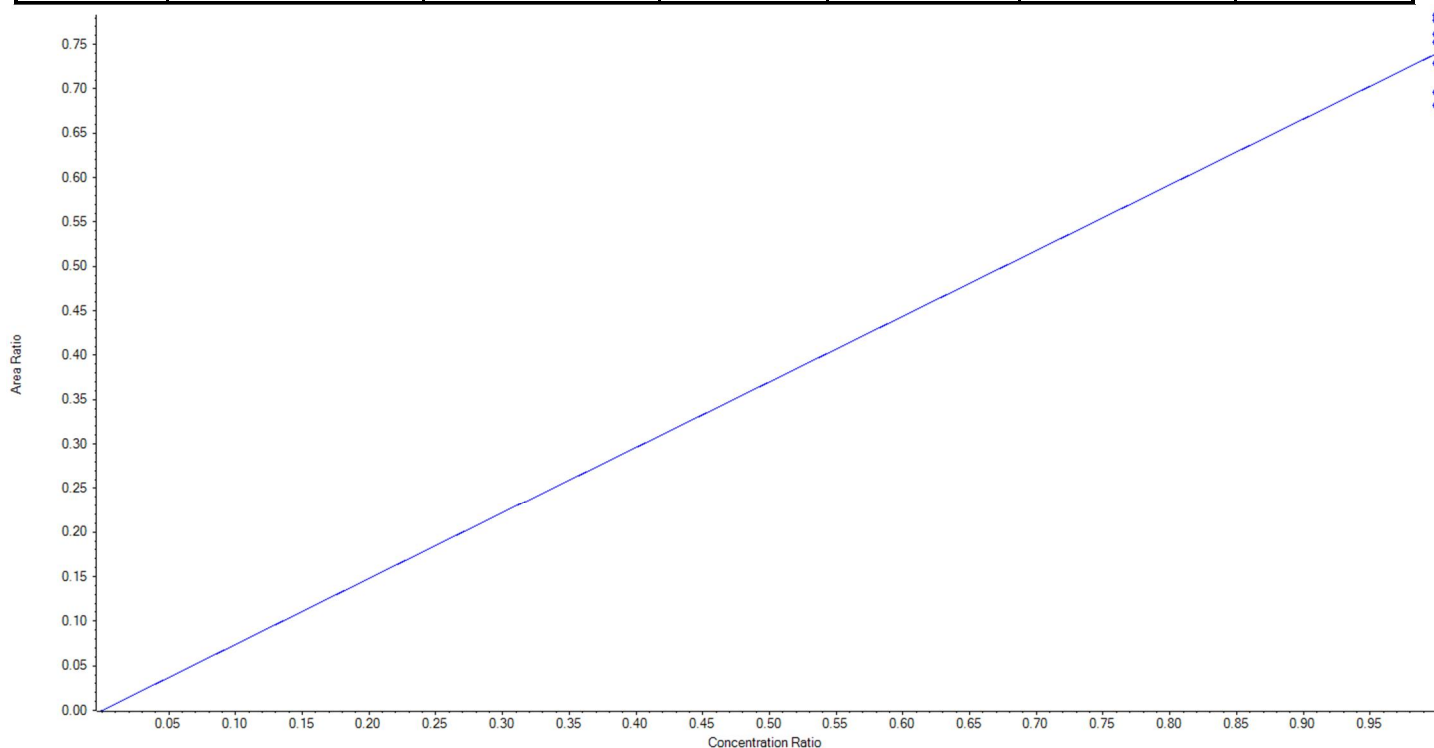
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	259.409133	103.8
3	KB74	L2	True	250.00	265.449091	106.2
4	KB75	L3	True	250.00	242.400635	97.0
5	KB76	L4	True	250.00	239.566927	95.8
6	KB77	L5	True	250.00	242.994684	97.2
7	KB78	L6	True	250.00	252.482663	101.0
8	KB79	L7	True	250.00	247.696867	99.1



<b>Analyte Name</b>	13C5-PFHxA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	318.0 / 273.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.73994 x$  (std. dev. = 0.03937) (weighting: 1 / x)

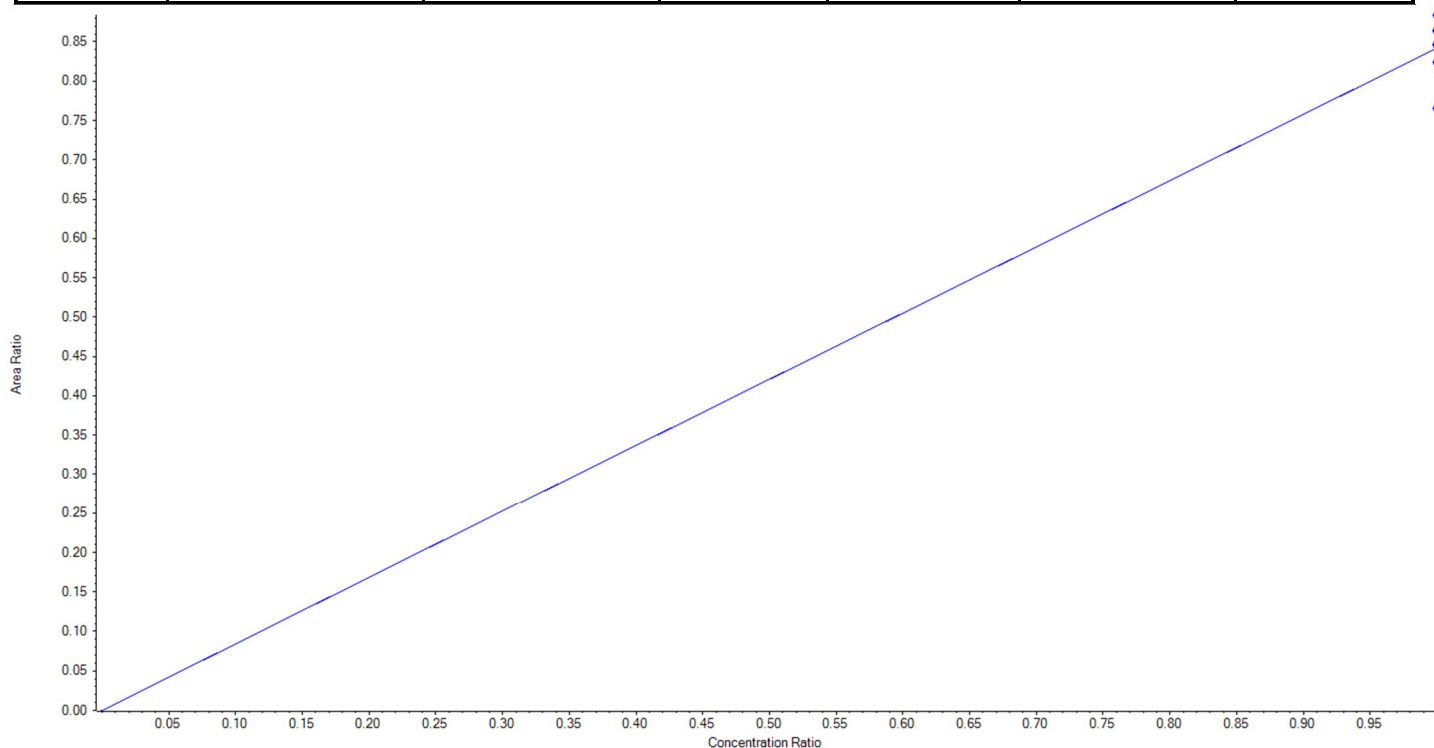
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	262.567314	105.0
3	KB74	L2	True	250.00	254.187234	101.7
4	KB75	L3	True	250.00	230.325952	92.1
5	KB76	L4	True	250.00	235.058052	94.0
6	KB77	L5	True	250.00	257.145365	102.9
7	KB78	L6	True	250.00	264.503275	105.8
8	KB79	L7	True	250.00	246.212808	98.5



<b>Analyte Name</b>	13C4-PFHpA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	367.0 / 322.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.84182 x$  (std. dev. = 0.03866) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	262.427043	105.0
3	KB74	L2	True	250.00	251.075240	100.4
4	KB75	L3	True	250.00	244.763156	97.9
5	KB76	L4	True	250.00	256.507439	102.6
6	KB77	L5	True	250.00	256.669677	102.7
7	KB78	L6	True	250.00	251.342992	100.5
8	KB79	L7	True	250.00	227.214453	90.9

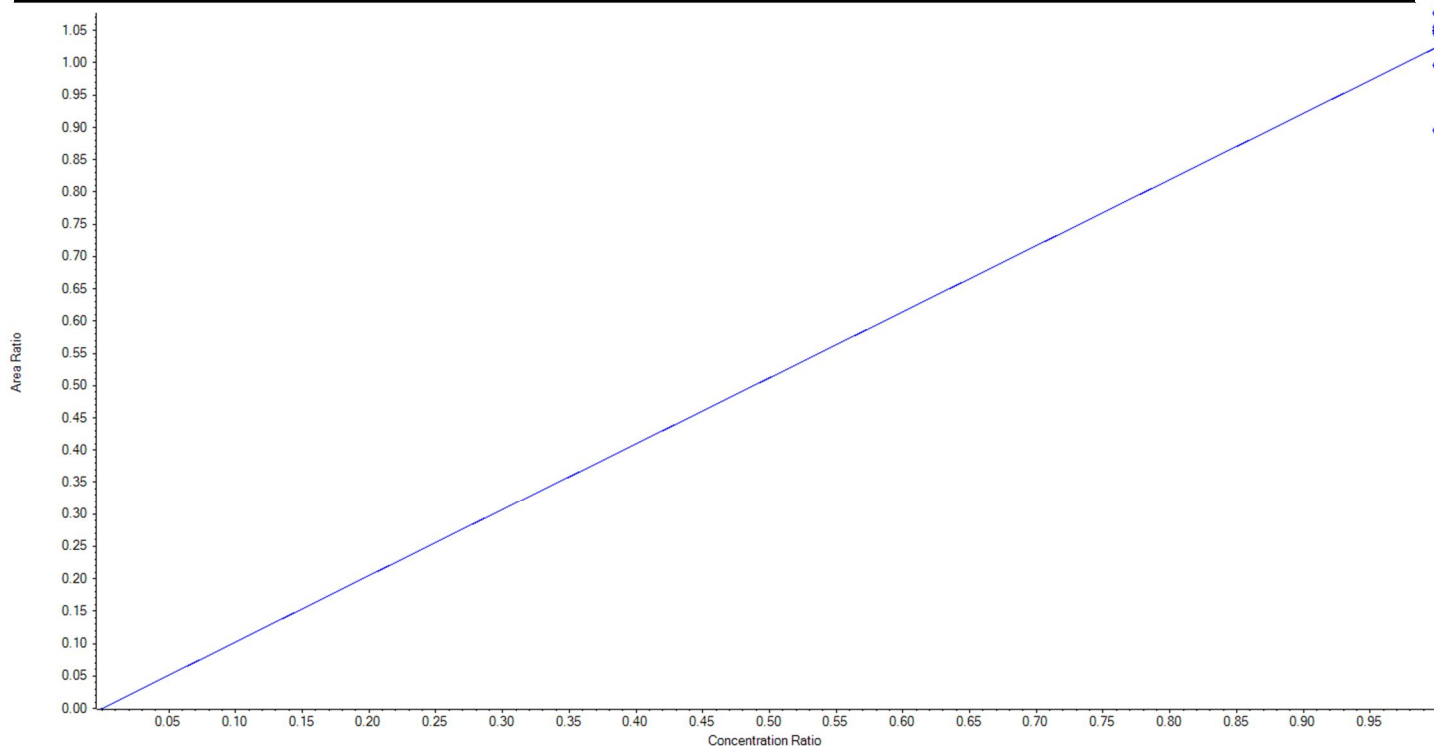




<b>Analyte Name</b>	13C8-PFOA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	421.0 / 376.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.02405 x$  (std. dev. = 0.06175) (weighting: 1 / x)

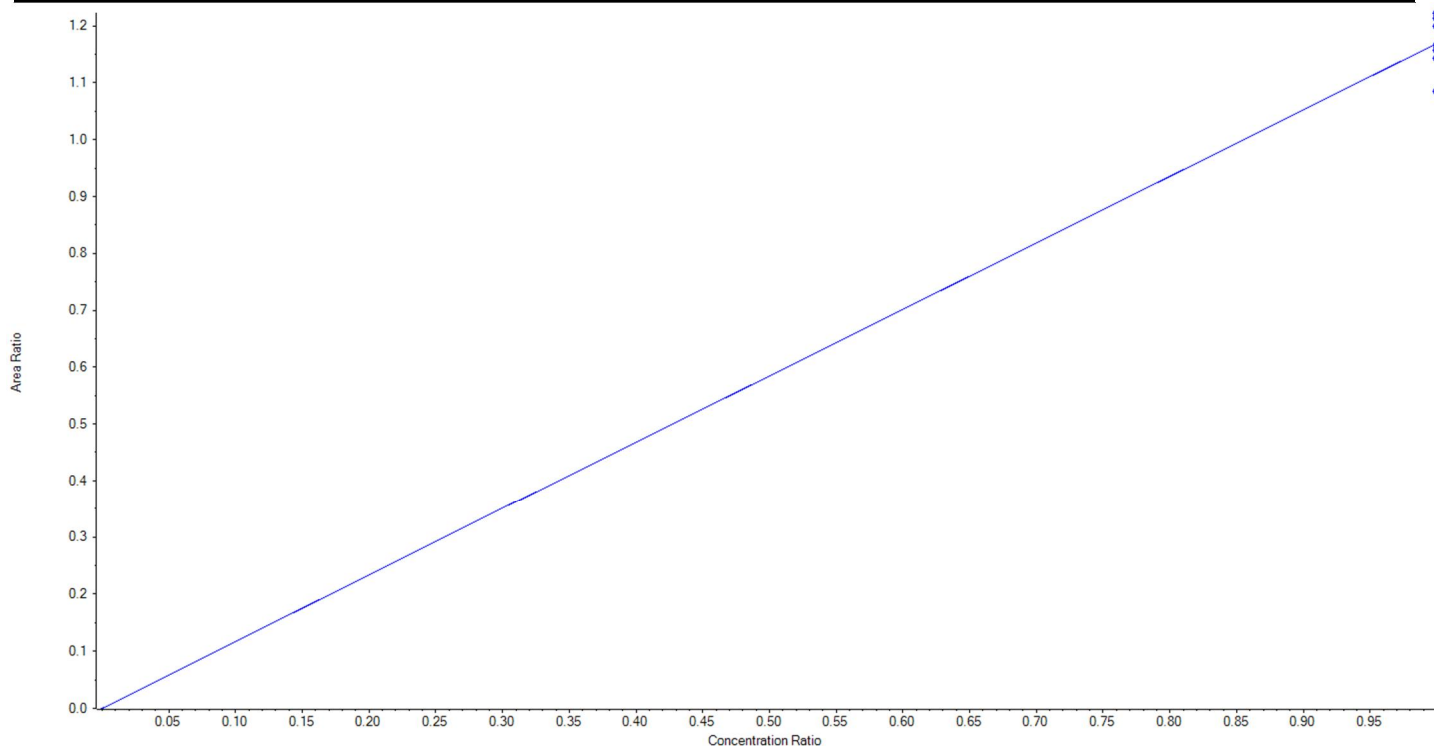
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	255.212785	102.1
3	KB74	L2	True	250.00	262.875155	105.2
4	KB75	L3	True	250.00	256.482263	102.6
5	KB76	L4	True	250.00	257.662297	103.1
6	KB77	L5	True	250.00	256.019871	102.4
7	KB78	L6	True	250.00	243.157749	97.3
8	KB79	L7	True	250.00	218.589880	87.4



<b>Analyte Name</b>	13C9-PFNA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	472.0 / 427.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFOA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 1.16930 x$  (std. dev. = 0.04759) (weighting: 1 / x)

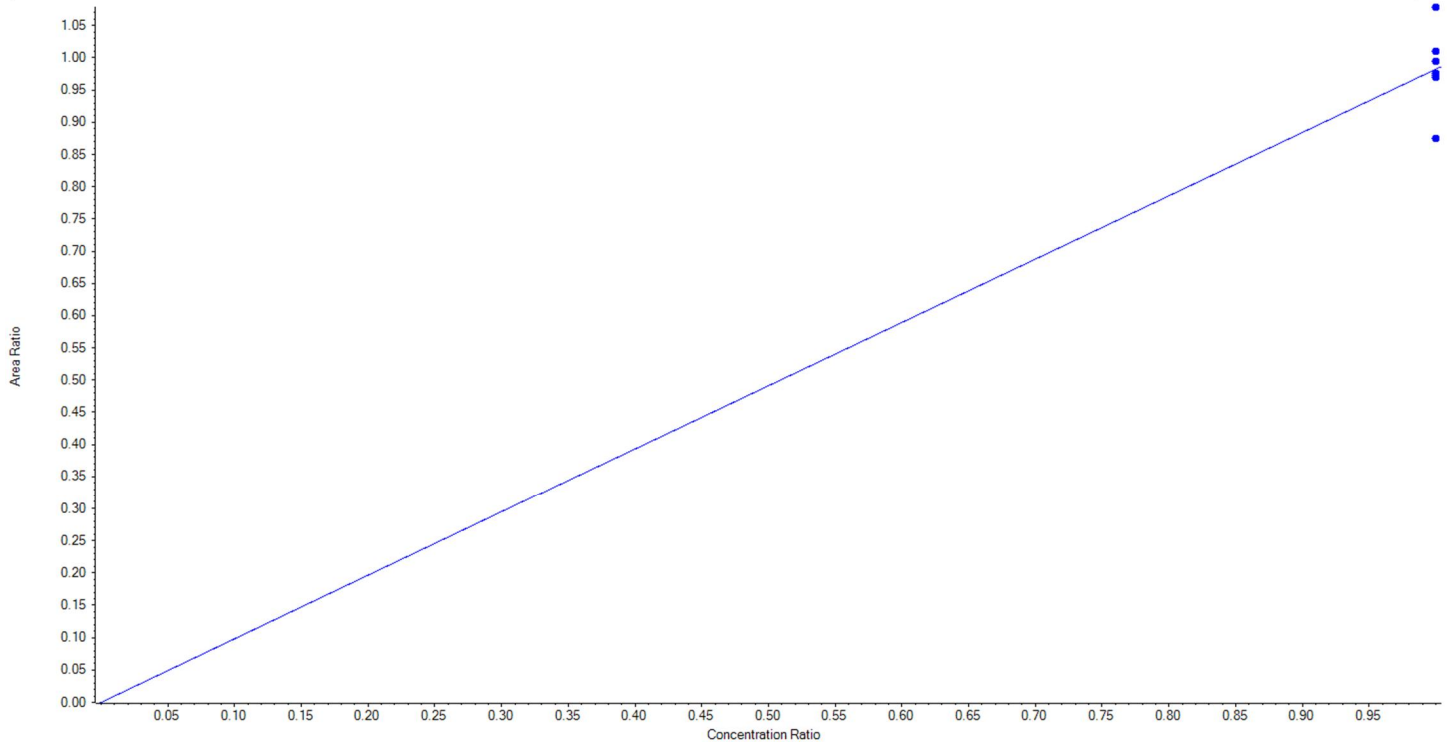
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	247.430463	99.0
3	KB74	L2	True	250.00	261.328420	104.5
4	KB75	L3	True	250.00	259.384215	103.8
5	KB76	L4	True	250.00	244.372857	97.8
6	KB77	L5	True	250.00	249.179395	99.7
7	KB78	L6	True	250.00	256.344825	102.5
8	KB79	L7	True	250.00	231.959824	92.8



<b>Analyte Name</b>	13C6-PFDA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	519.0 / 474.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.98235 x$  (std. dev. = 0.06079) (weighting: 1 / x)

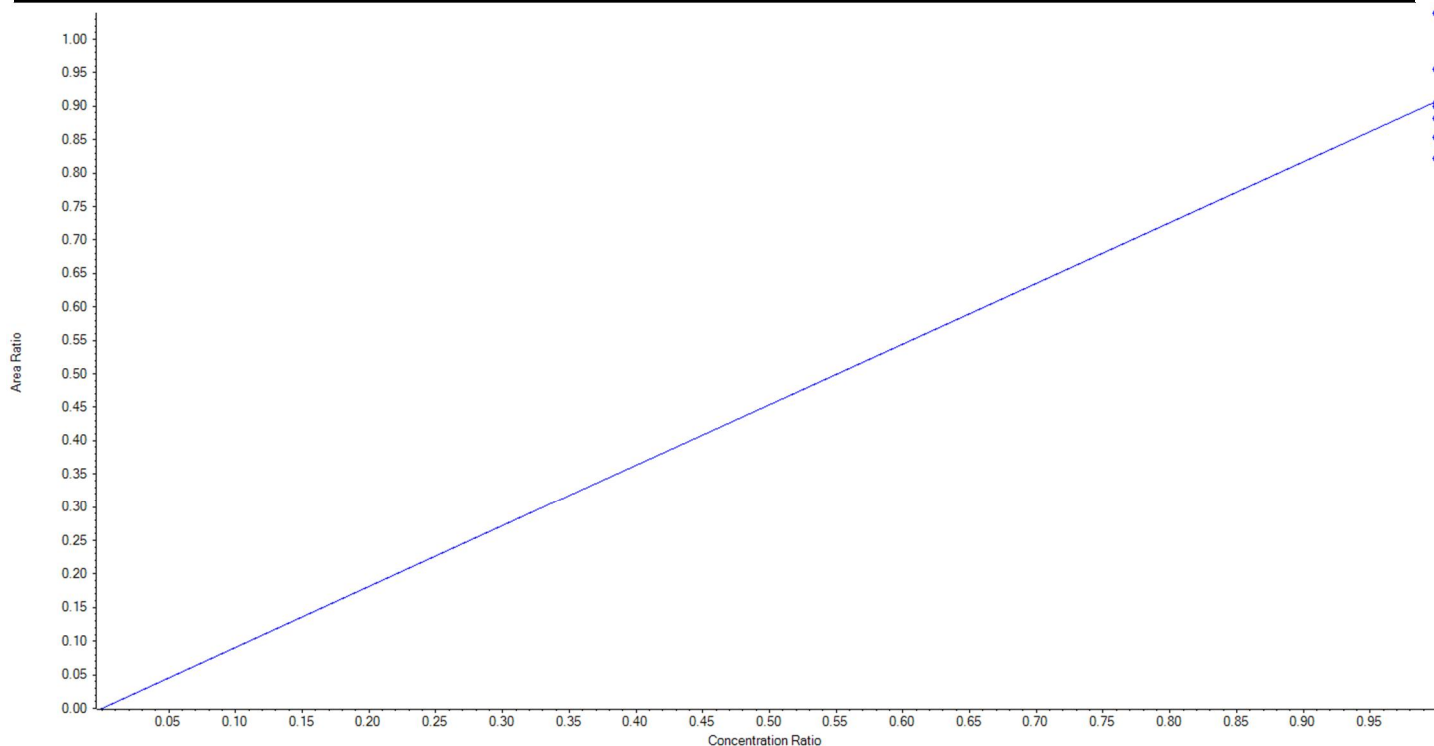
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	246.733475	98.7
3	KB74	L2	True	250.00	253.248818	101.3
4	KB75	L3	True	250.00	257.192135	102.9
5	KB76	L4	True	250.00	248.450649	99.4
6	KB77	L5	True	250.00	274.445566	109.8
7	KB78	L6	True	250.00	247.435316	99.0
8	KB79	L7	True	250.00	222.494042	89.0



<b>Analyte Name</b>	13C7-PFUnA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	570.0 / 525.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.90743 x$  (std. dev. = 0.07148) (weighting: 1 / x)

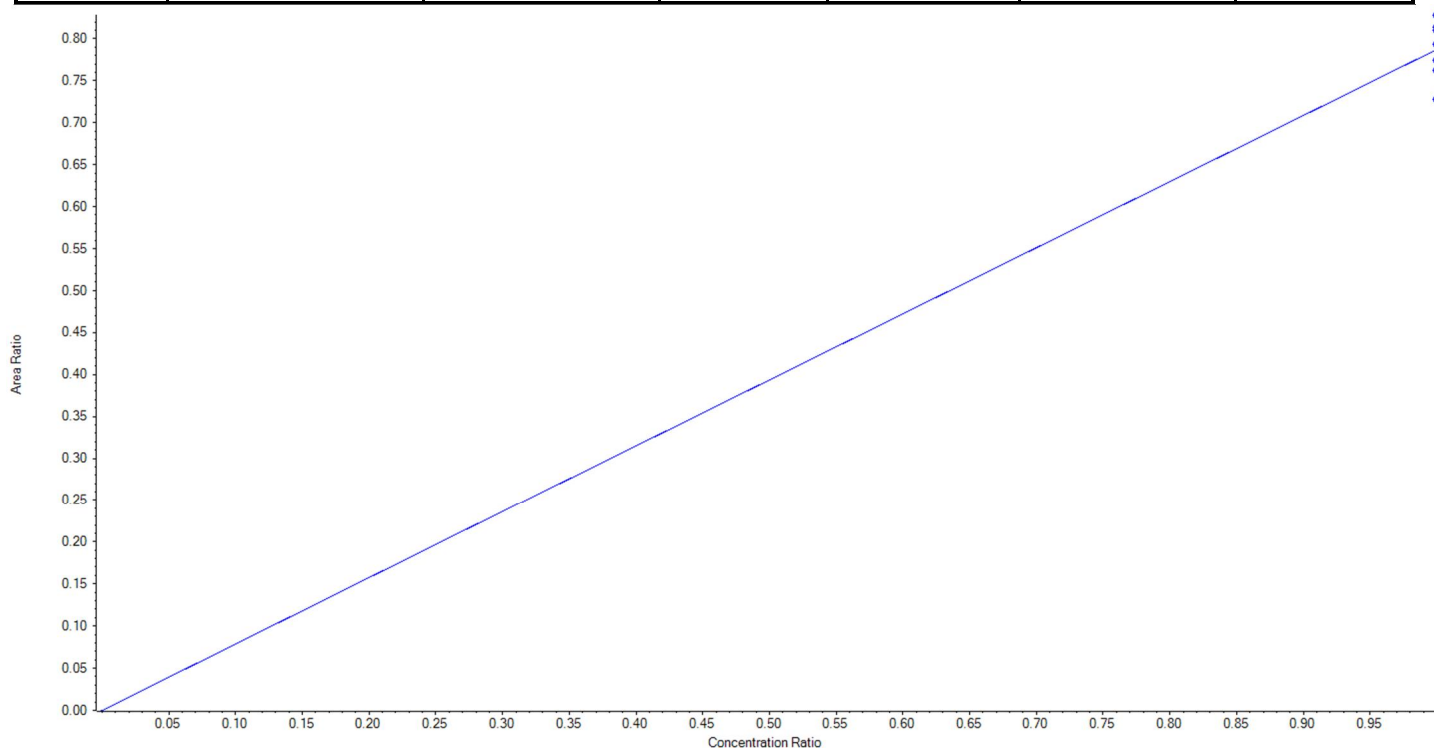
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	247.760751	99.1
3	KB74	L2	True	250.00	262.960755	105.2
4	KB75	L3	True	250.00	286.201660	114.5
5	KB76	L4	True	250.00	234.954208	94.0
6	KB77	L5	True	250.00	249.135582	99.7
7	KB78	L6	True	250.00	242.726450	97.1
8	KB79	L7	True	250.00	226.260594	90.5



<b>Analyte Name</b>	13C2-PFTeDA	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	715.0 / 670.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C2-PFDA	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.78723 x$  (std. dev. = 0.03476) (weighting: 1 / x)

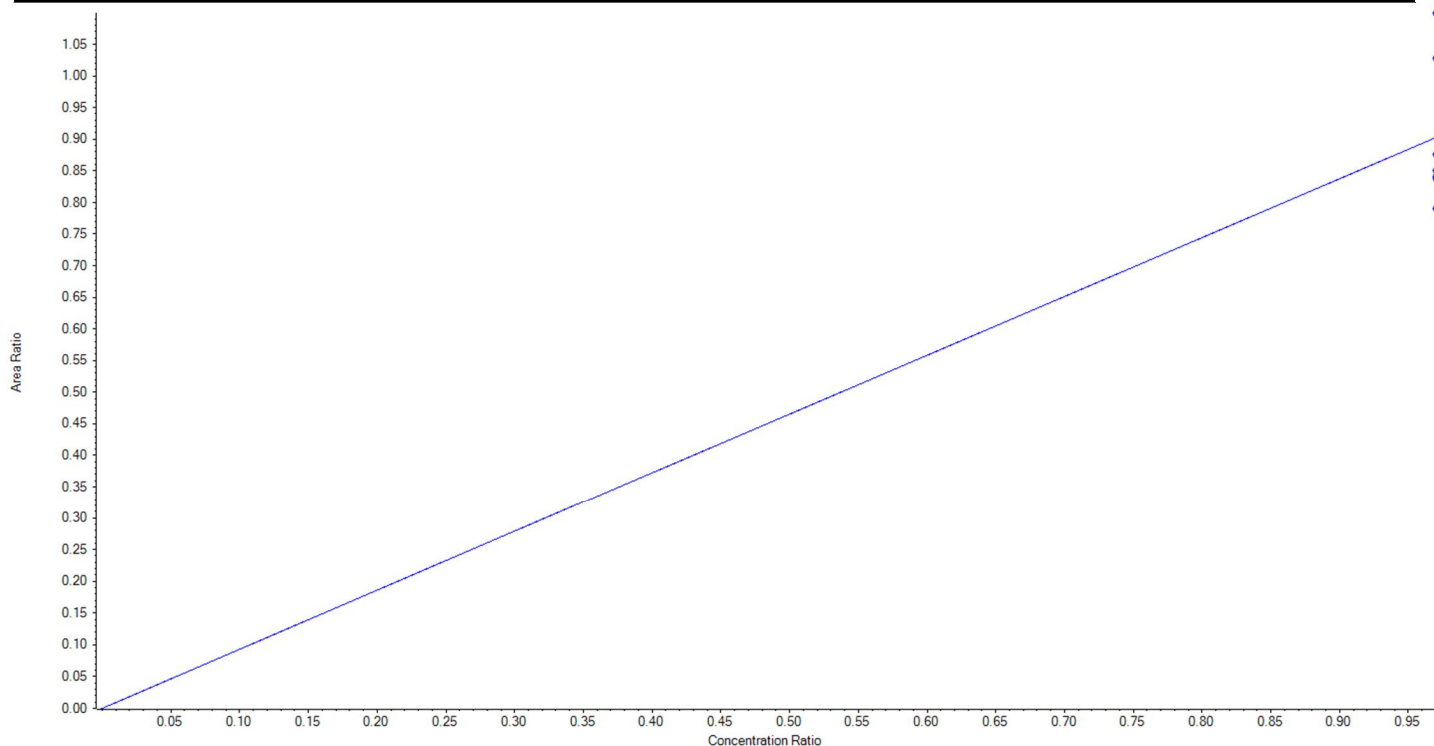
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	250.00	242.249601	96.9
3	KB74	L2	True	250.00	262.922814	105.2
4	KB75	L3	True	250.00	245.975733	98.4
5	KB76	L4	True	250.00	231.048930	92.4
6	KB77	L5	True	250.00	252.097071	100.8
7	KB78	L6	True	250.00	258.482884	103.4
8	KB79	L7	True	250.00	257.222966	102.9



<b>Analyte Name</b>	13C3-PFBS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	302.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.93048 x$  (std. dev. = 0.11752) (weighting: 1 / x)

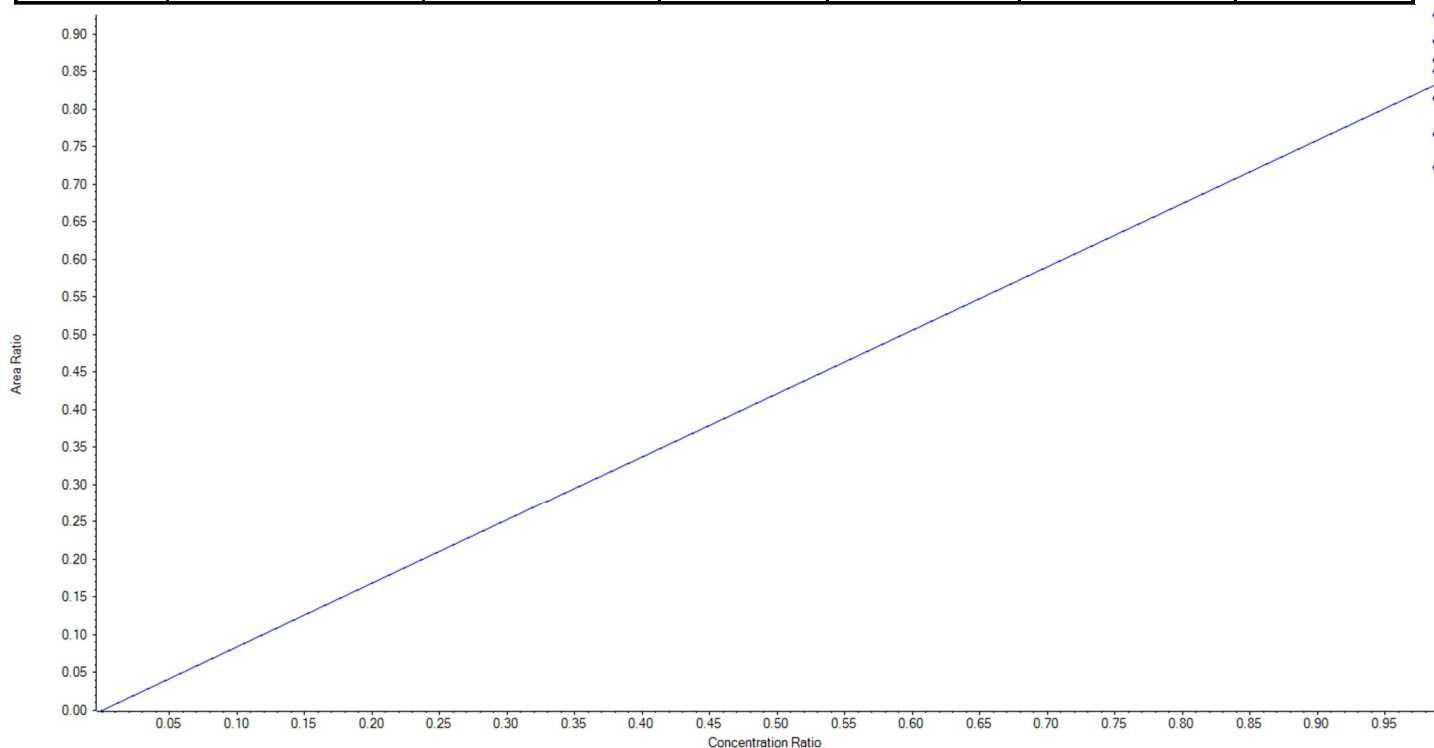
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	232.25	225.022462	96.9
3	KB74	L2	True	232.25	215.609121	92.8
4	KB75	L3	True	232.25	218.748838	94.2
5	KB76	L4	True	232.25	203.233433	87.5
6	KB77	L5	True	232.25	216.348971	93.2
7	KB78	L6	True	232.25	264.163371	113.7
8	KB79	L7	True	232.25	282.623804	121.7



<b>Analyte Name</b>	13C3-PFHxS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	402.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.84316 x$  (std. dev. = 0.07172) (weighting: 1 / x)

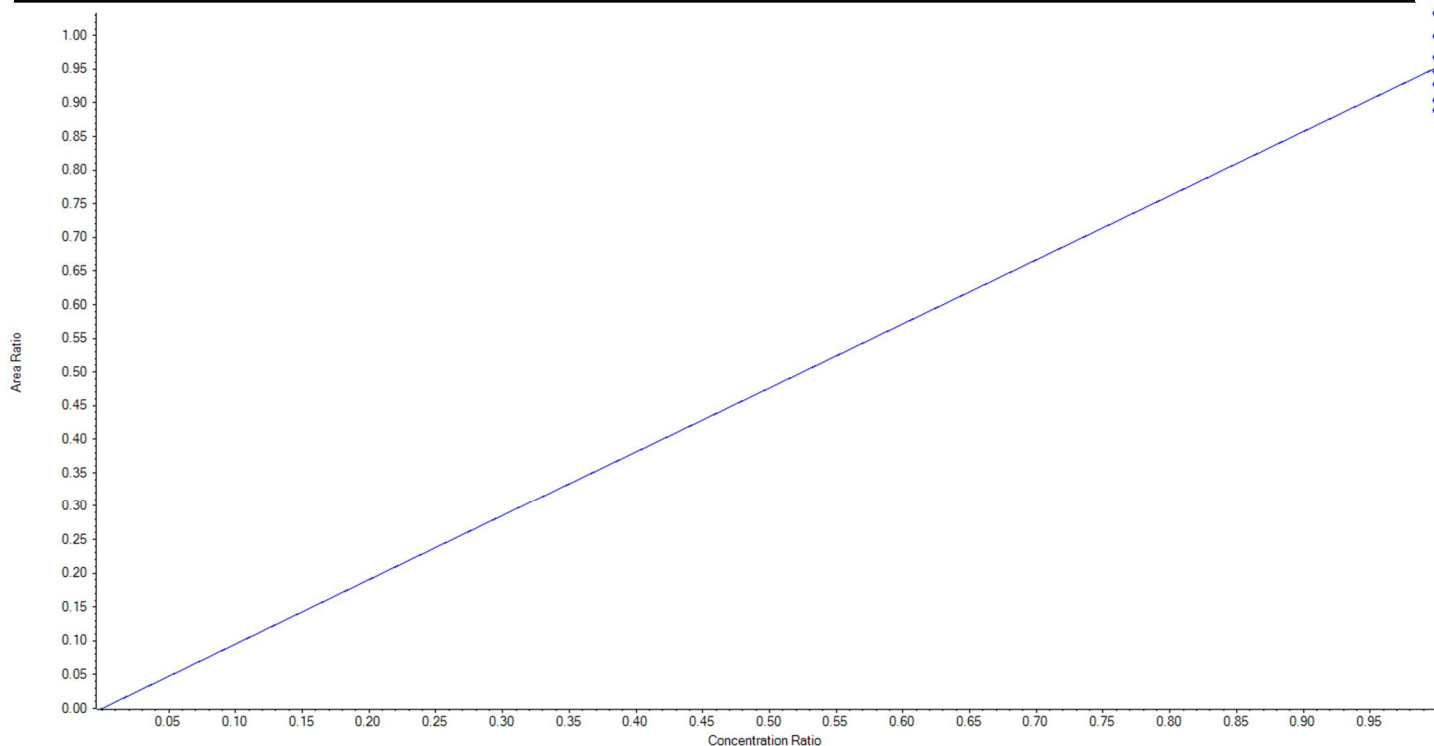
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	236.50	231.144826	97.7
3	KB74	L2	True	236.50	241.172849	102.0
4	KB75	L3	True	236.50	245.474666	103.8
5	KB76	L4	True	236.50	217.481590	92.0
6	KB77	L5	True	236.50	204.966129	86.7
7	KB78	L6	True	236.50	262.529838	111.0
8	KB79	L7	True	236.50	252.730102	106.9



<b>Analyte Name</b>	13C8-PFOS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	507.0 / 99.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.95250 x$  (std. dev. = 0.05159) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	239.25	250.871078	104.9
3	KB74	L2	True	239.25	243.225761	101.7
4	KB75	L3	True	239.25	223.367998	93.4
5	KB76	L4	True	239.25	233.089271	97.4
6	KB77	L5	True	239.25	226.800752	94.8
7	KB78	L6	True	239.25	259.494294	108.5
8	KB79	L7	True	239.25	237.900846	99.4

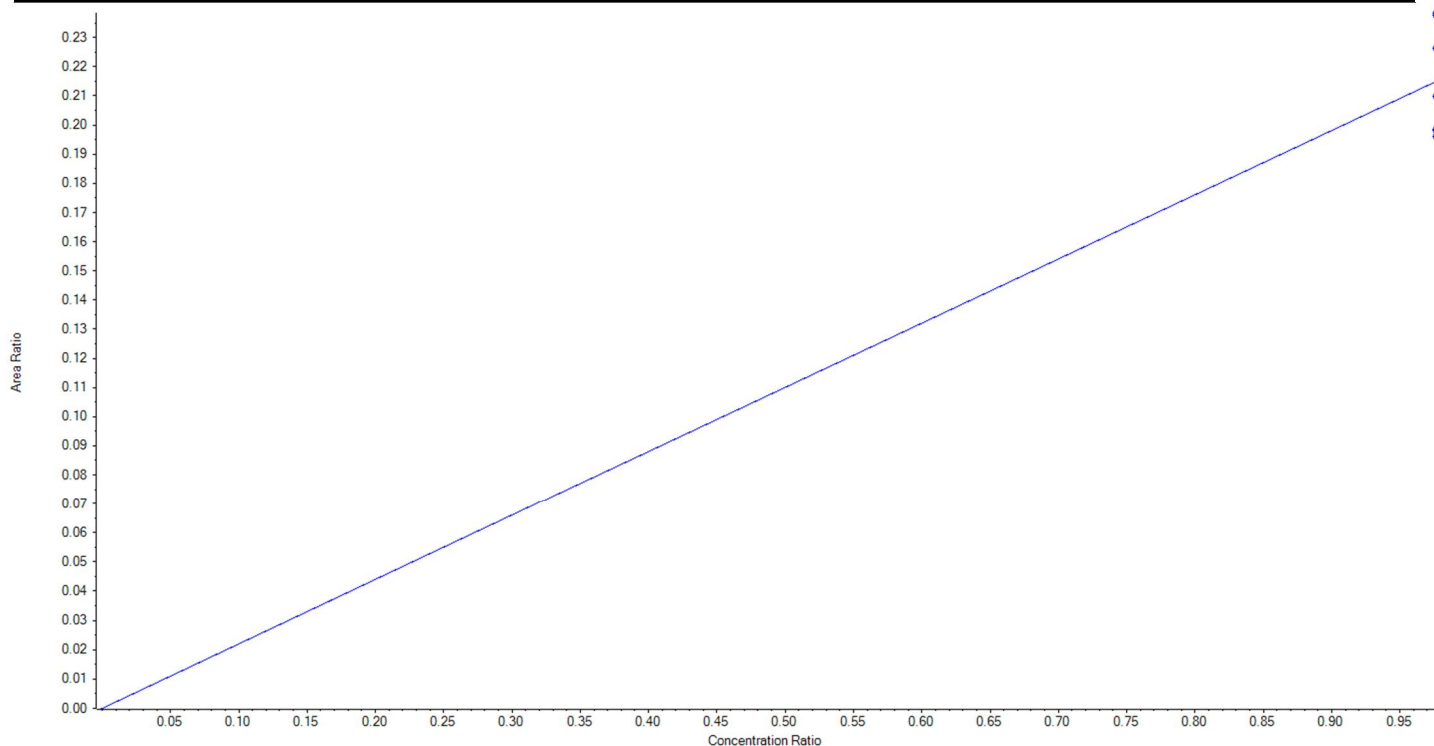




<b>Analyte Name</b>	13C2-4:2FTS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	329.0 / 81.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.22007 x$  (std. dev. = 0.01924) (weighting: 1 / x)

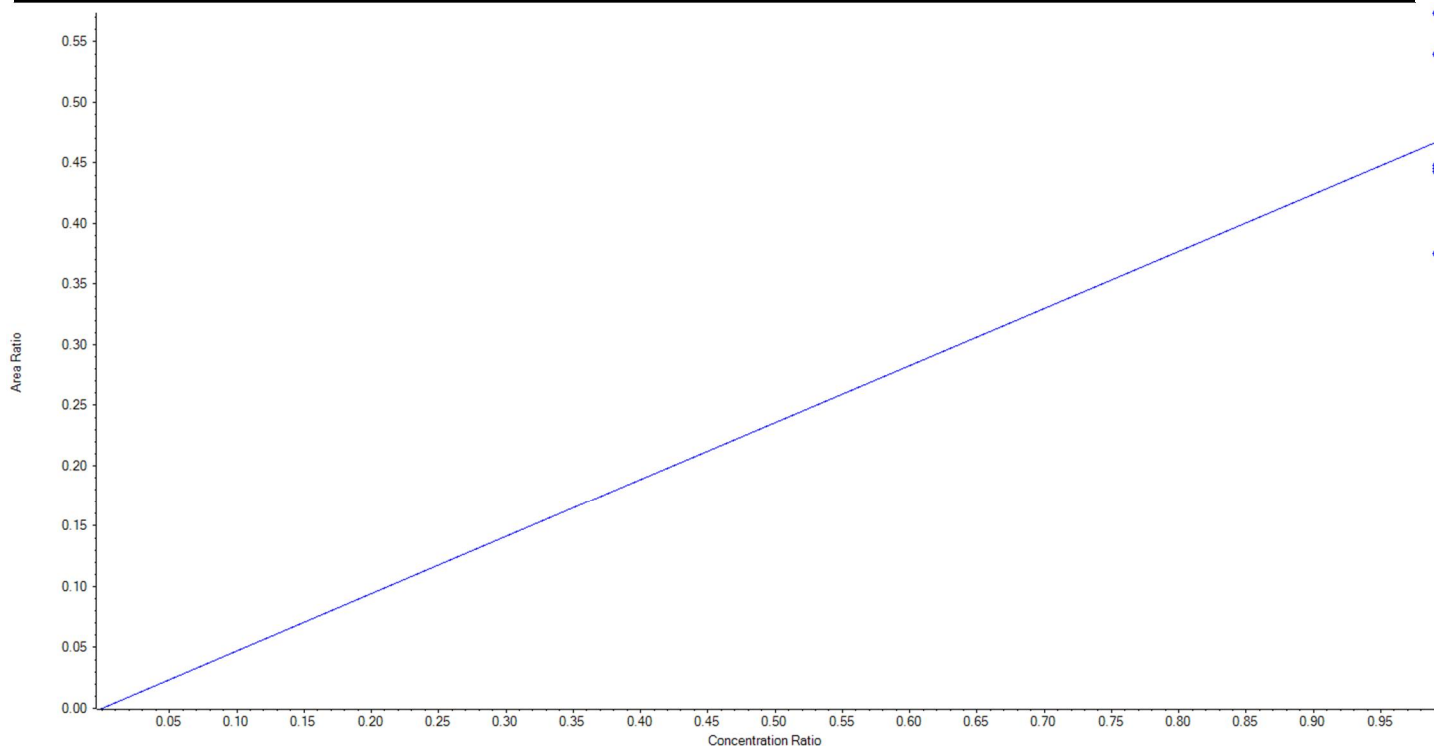
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	233.75	228.035462	97.6
3	KB74	L2	True	233.75	215.559023	92.2
4	KB75	L3	True	233.75	215.810070	92.3
5	KB76	L4	True	233.75	246.140680	105.3
6	KB77	L5	True	233.75	213.266028	91.2
7	KB78	L6	True	233.75	258.381835	110.5
8	KB79	L7	True	233.75	259.056902	110.8



<b>Analyte Name</b>	13C2-6:2FTS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	429.0 / 81.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.47129x$  (std. dev. = 0.06744) (weighting: 1 / x)

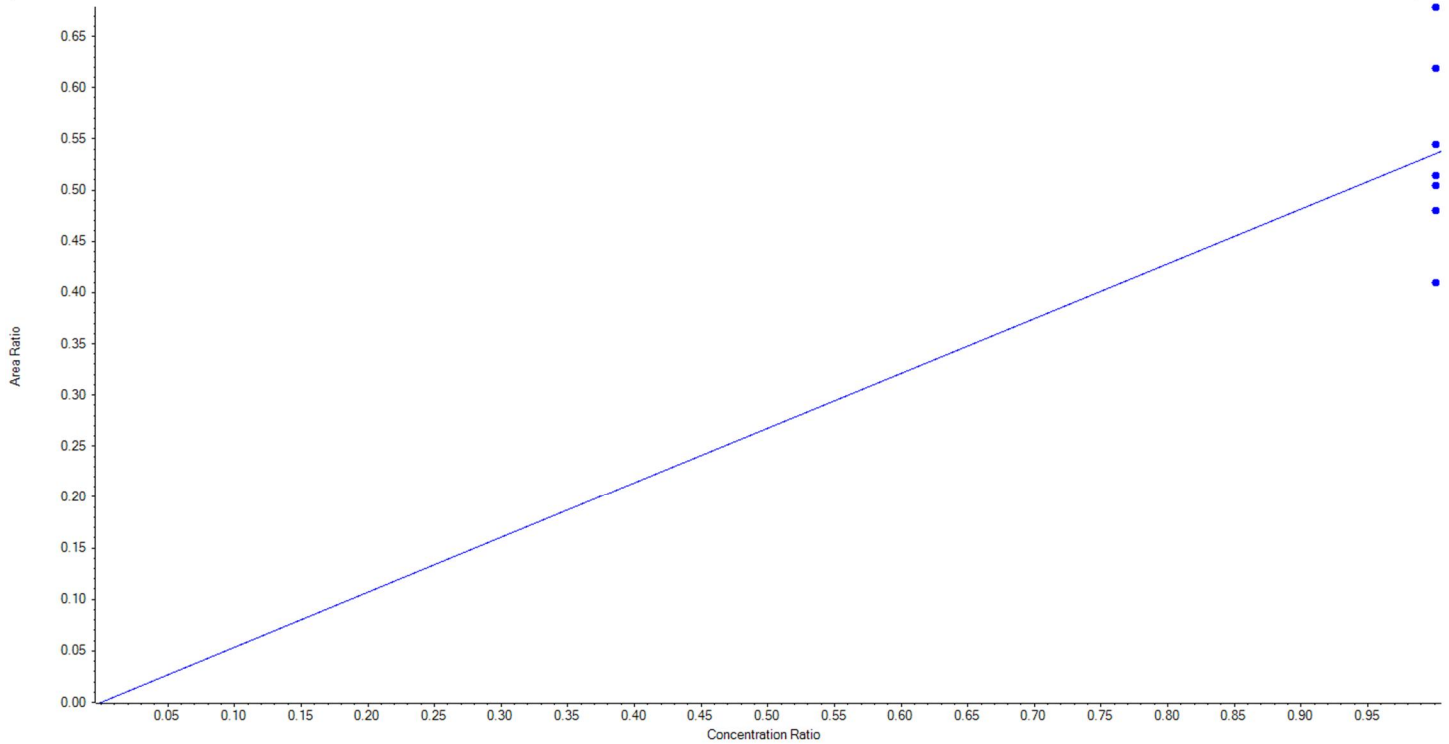
Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	237.25	227.360088	95.8
3	KB74	L2	True	237.25	227.173633	95.8
4	KB75	L3	True	237.25	226.037117	95.3
5	KB76	L4	True	237.25	224.712898	94.7
6	KB77	L5	True	237.25	190.463821	80.3
7	KB78	L6	True	237.25	273.866686	115.4
8	KB79	L7	True	237.25	291.135757	122.7



<b>Analyte Name</b>	13C2-8:2FTS	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>MRM Transition</b>	529.0 / 81.0	<b>Result Table</b>	5500_10242018_5-0369
<b>Internal Standard</b>	13C4-PFOS	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	10/17/2018 7:36:00 PM	<b>Acquisition Method</b>	5-0369.dam

Regression Equation:  $y = 0.53506 x$  (std. dev. = 0.08913) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
2	KB73	L1	True	239.50	229.891246	96.0
3	KB74	L2	True	239.50	225.753991	94.3
4	KB75	L3	True	239.50	214.482942	89.6
5	KB76	L4	True	239.50	183.126152	76.5
6	KB77	L5	True	239.50	243.350439	101.6
7	KB78	L6	True	239.50	276.516027	115.5
8	KB79	L7	True	239.50	303.379204	126.7





Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	36035.22	104.635578	126.2	true
PFBS 2	298.9 / 99.0	1.57	10918.15	109.976962	78.2	true
PFHxA 1	313.0 / 269.0	1.90	32164.19	98.968181	3.3	false
PFHxA 2	313.0 / 119.0	1.91	2959.44	113.183087	3.5	false
PFHpA 1	363.0 / 319.0	2.32	32551.91	113.465532	39.8	false
PFHpA 2	363.0 / 169.0	2.32	1000.19	103.311634	29.1	false
PFHxS 1	399.0 / 80.0	2.34	44418.07	105.225987	134.5	false
PFHxS 2	399.0 / 99.0	2.34	12198.64	98.139274	86.9	false
PFOA 1	413.0 / 369.0	2.73	42708.15	113.608497	67.5	false
PFOA 2	413.0 / 169.0	2.73	2568.95	104.849376	46.6	false
PFNA 1	463.0 / 419.0	3.14	40302.36	100.132667	94.3	false
PFNA 2	463.0 / 219.0	3.14	13162.53	111.702594	118.3	false
PFOS 1	499.0 / 80.0	3.13	65728.52	112.998705	102.9	false
PFOS 2	499.0 / 99.0	3.13	11345.50	110.962710	100.1	false
PFDA 1	513.0 / 469.0	3.50	49242.60	100.375074	136.7	false
PFDA 2	513.0 / 219.0	3.49	2266.31	112.406023	88.7	false
PFUnA 1	563.0 / 519.0	3.83	45897.49	111.527231	163.3	false
PFUnA 2	563.0 / 269.0	3.82	1918.57	102.220892	42.6	true
PFDoA 1	613.0 / 569.0	4.11	39723.04	90.939755	179.1	false
PFDoA 2	613.0 / 319.0	4.11	6547.85	86.545687	145.5	false
PFTTrDA 1	663.0 / 619.0	4.37	34866.78	85.967911	309.6	false
PFTTrDA 2	663.0 / 169.0	4.36	2214.00	78.198175	110.2	false
PFTeDA 1	713.0 / 669.0	4.59	40930.04	81.728327	685.4	false
PFTeDA 2	713.0 / 169.0	4.58	2198.76	89.886117	212.0	false
NMeFOSAA 1	570.0 / 419.0	3.65	8081.03	75.824991	298.4	false
NMeFOSAA 2	570.0 / 512.0	3.65	3645.21	3.453918	224.2	false
NEtFOSAA 1	584.0 / 419.0	3.82	8180.80	104.771450	524.6	false
NEtFOSAA 2	584.0 / 483.0	3.82	421.19	41.412646	48.5	false

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	93283.23	249.370464	246.3	false
PFBS 2	298.9 / 99.0	1.57	26423.99	242.180085	146.1	false
PFHxA 1	313.0 / 269.0	1.90	81008.49	269.910942	7.1	false
PFHxA 2	313.0 / 119.0	1.89	5592.03	230.645561	6.5	false
PFHpA 1	363.0 / 319.0	2.31	75049.99	261.922885	57.6	false
PFHpA 2	363.0 / 169.0	2.31	1497.90	175.823351	28.9	true
PFHxS 1	399.0 / 80.0	2.33	108184.43	232.865372	188.9	false
PFHxS 2	399.0 / 99.0	2.33	30598.50	231.314187	310.4	false
PFOA 1	413.0 / 369.0	2.73	100033.19	242.259718	128.9	false
PFOA 2	413.0 / 169.0	2.73	7259.40	273.238913	110.3	false
PFNA 1	463.0 / 419.0	3.13	107846.09	263.216231	192.5	false
PFNA 2	463.0 / 219.0	3.12	28095.55	220.916460	213.9	false
PFOS 1	499.0 / 80.0	3.12	165271.40	245.807613	161.0	false
PFOS 2	499.0 / 99.0	3.12	28706.92	244.538081	211.7	true
PFDA 1	513.0 / 469.0	3.49	122994.62	264.467518	236.7	false
PFDA 2	513.0 / 219.0	3.48	4770.77	245.500787	791.7	false
PFUnA 1	563.0 / 519.0	3.82	106014.14	244.824605	237.3	false
PFUnA 2	563.0 / 269.0	3.81	5018.00	242.442598	81.5	false
PFDoA 1	613.0 / 569.0	4.10	107705.01	247.072023	318.6	false
PFDoA 2	613.0 / 319.0	4.10	19126.54	274.615048	276.9	false
PFTTrDA 1	663.0 / 619.0	4.35	90249.73	241.563939	481.4	false
PFTTrDA 2	663.0 / 169.0	4.35	6147.30	247.986856	208.6	false
PFTeDA 1	713.0 / 669.0	4.58	109852.37	253.645310	931.4	false
PFTeDA 2	713.0 / 169.0	4.58	5150.42	238.937138	369.4	false
NMeFOSAA 1	570.0 / 419.0	3.65	21539.90	268.876365	843.1	false
NMeFOSAA 2	570.0 / 512.0	3.65	11614.86	218.419800	528.2	false
NEtFOSAA 1	584.0 / 419.0	3.81	21525.62	251.018896	397.7	false
NEtFOSAA 2	584.0 / 483.0	3.80	1206.24	191.667209	290.9	false

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	163617.84	495.098560	296.3	false
PFBS 2	298.9 / 99.0	1.57	45956.46	475.121472	212.6	false
PFHxA 1	313.0 / 269.0	1.89	123711.77	490.752146	10.9	false
PFHxA 2	313.0 / 119.0	1.89	9937.29	514.901118	10.8	false
PFHpA 1	363.0 / 319.0	2.31	119885.50	452.888167	85.7	false
PFHpA 2	363.0 / 169.0	2.31	3804.54	618.850678	67.0	false
PFHxS 1	399.0 / 80.0	2.33	185842.71	467.824000	256.2	false
PFHxS 2	399.0 / 99.0	2.33	54144.25	484.563583	238.2	false
PFOA 1	413.0 / 369.0	2.72	178566.76	467.456638	160.8	false
PFOA 2	413.0 / 169.0	2.72	10469.56	421.303706	138.9	false
PFNA 1	463.0 / 419.0	3.12	170504.46	450.336433	203.9	false
PFNA 2	463.0 / 219.0	3.12	51980.47	448.287193	301.6	false
PFOS 1	499.0 / 80.0	3.12	275067.90	508.954098	204.8	false
PFOS 2	499.0 / 99.0	3.12	48946.70	520.238814	287.5	false
PFDA 1	513.0 / 469.0	3.48	213151.42	495.556524	301.2	false
PFDA 2	513.0 / 219.0	3.48	8539.13	479.073328	239.1	false
PFUnA 1	563.0 / 519.0	3.81	185383.49	423.690587	269.5	false
PFUnA 2	563.0 / 269.0	3.81	10671.72	501.608235	165.4	false
PFDoA 1	613.0 / 569.0	4.09	184868.00	506.360909	343.9	false
PFDoA 2	613.0 / 319.0	4.09	28751.08	494.661881	331.3	false
PFTrDA 1	663.0 / 619.0	4.35	151211.59	488.700899	597.4	false
PFTrDA 2	663.0 / 169.0	4.34	10123.70	495.036348	322.3	false
PFTeDA 1	713.0 / 669.0	4.57	182656.44	515.154084	1232.8	false
PFTeDA 2	713.0 / 169.0	4.56	8526.49	490.005825	501.7	false
NMeFOSAA 1	570.0 / 419.0	3.63	34656.73	500.524214	2338.0	false
NMeFOSAA 2	570.0 / 512.0	3.64	18345.00	439.990383	658.5	false
NEtFOSAA 1	584.0 / 419.0	3.80	31971.45	508.056535	633.3	false
NEtFOSAA 2	584.0 / 483.0	3.80	2497.16	637.470069	8056.1	true

Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	336045.72	1091.288759	552.2	false
PFBS 2	298.9 / 99.0	1.56	98081.89	1086.381545	407.4	false
PFHxA 1	313.0 / 269.0	1.89	240693.36	1004.472242	18.1	false
PFHxA 2	313.0 / 119.0	1.89	17814.42	980.952621	16.5	false
PFHpA 1	363.0 / 319.0	2.30	251954.77	963.772233	144.8	false
PFHpA 2	363.0 / 169.0	2.30	6187.13	1051.701356	84.1	false
PFHxS 1	399.0 / 80.0	2.32	369801.30	1074.776448	333.3	false
PFHxS 2	399.0 / 99.0	2.32	106671.06	1107.476178	416.8	false
PFOA 1	413.0 / 369.0	2.71	347996.75	956.844142	237.9	false
PFOA 2	413.0 / 169.0	2.71	24237.17	1028.034772	244.5	false
PFNA 1	463.0 / 419.0	3.11	345587.51	1046.243999	410.7	false
PFNA 2	463.0 / 219.0	3.11	106652.75	1050.052047	427.7	false
PFOS 1	499.0 / 80.0	3.11	549475.41	953.422687	298.0	false
PFOS 2	499.0 / 99.0	3.11	96044.01	958.547975	432.6	false
PFDA 1	513.0 / 469.0	3.47	409723.46	987.592944	454.6	false
PFDA 2	513.0 / 219.0	3.47	17306.29	1010.924950	319.9	false
PFUnA 1	563.0 / 519.0	3.80	370869.35	1026.343861	315.7	false
PFUnA 2	563.0 / 269.0	3.80	17491.40	981.918474	206.5	false
PFDoA 1	613.0 / 569.0	4.09	374694.74	1050.478389	498.6	false
PFDoA 2	613.0 / 319.0	4.09	54643.36	971.395687	458.0	false
PFTrDA 1	663.0 / 619.0	4.34	321677.62	1126.764608	812.9	false
PFTrDA 2	663.0 / 169.0	4.34	21874.98	1164.067670	449.0	false
PFTeDA 1	713.0 / 669.0	4.56	357047.01	1095.645152	1545.8	false
PFTeDA 2	713.0 / 169.0	4.56	17306.66	1092.239213	701.8	false
NMeFOSAA 1	570.0 / 419.0	3.63	68030.30	1133.404189	751.5	false
NMeFOSAA 2	570.0 / 512.0	3.63	39158.03	1163.925478	709.7	false
NEtFOSAA 1	584.0 / 419.0	3.80	66289.88	943.782521	754.6	false
NEtFOSAA 2	584.0 / 483.0	3.80	4059.44	945.207707	43600.8	false



Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	776289.58	2332.691625	927.0	false
PFBS 2	298.9 / 99.0	1.56	228434.75	2339.199841	734.2	false
PFHxA 1	313.0 / 269.0	1.89	609668.03	2495.865956	39.8	false
PFHxA 2	313.0 / 119.0	1.89	44913.51	2451.366061	32.3	false
PFHpA 1	363.0 / 319.0	2.30	584043.68	2376.996854	232.0	false
PFHpA 2	363.0 / 169.0	2.30	13193.99	2469.602759	211.4	false
PFHxS 1	399.0 / 80.0	2.32	886495.01	2696.493262	388.0	false
PFHxS 2	399.0 / 99.0	2.32	252473.06	2749.725828	571.1	false
PFOA 1	413.0 / 369.0	2.71	834165.44	2452.232813	357.8	false
PFOA 2	413.0 / 169.0	2.71	53993.69	2444.883328	444.0	false
PFNA 1	463.0 / 419.0	3.11	783461.97	2491.510736	552.9	false
PFNA 2	463.0 / 219.0	3.11	254909.55	2632.290752	603.7	false
PFOS 1	499.0 / 80.0	3.11	1306443.89	2300.880982	452.4	false
PFOS 2	499.0 / 99.0	3.11	224020.69	2271.299000	545.6	false
PFDA 1	513.0 / 469.0	3.47	986588.88	2418.646707	564.2	false
PFDA 2	513.0 / 219.0	3.47	39607.95	2354.317167	415.6	false
PFUnA 1	563.0 / 519.0	3.80	871741.30	2538.187940	460.9	false
PFUnA 2	563.0 / 269.0	3.80	43333.05	2544.385755	300.0	false
PFDoA 1	613.0 / 569.0	4.09	821796.76	2565.539851	662.4	false
PFDoA 2	613.0 / 319.0	4.09	135656.47	2712.576260	522.0	false
PFTTrDA 1	663.0 / 619.0	4.33	735746.86	2664.921530	986.7	false
PFTTrDA 2	663.0 / 169.0	4.33	48743.98	2684.712399	618.7	false
PFTeDA 1	713.0 / 669.0	4.56	816378.76	2603.218162	1929.9	false
PFTeDA 2	713.0 / 169.0	4.55	40737.36	2680.771848	1193.3	false
NMeFOSAA 1	570.0 / 419.0	3.63	151508.36	2465.257046	2245.1	false
NMeFOSAA 2	570.0 / 512.0	3.63	88173.15	2616.439396	615.9	false
NEtFOSAA 1	584.0 / 419.0	3.79	155433.42	2522.760733	648.0	false
NEtFOSAA 2	584.0 / 483.0	3.79	9620.27	2637.389496	1231310.6	false

Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	3735985.71	9811.581725	1503.9	false
PFBS 2	298.9 / 99.0	1.56	1134069.29	10143.472130	1449.0	false
PFHxA 1	313.0 / 269.0	1.88	2658827.36	9993.499522	90.8	false
PFHxA 2	313.0 / 119.0	1.88	200130.60	10083.260482	76.5	false
PFHpA 1	363.0 / 319.0	2.30	2497856.31	9765.162244	436.5	false
PFHpA 2	363.0 / 169.0	2.30	53385.07	9796.218447	441.5	false
PFHxS 1	399.0 / 80.0	2.32	3854430.51	9828.822898	984.2	false
PFHxS 2	399.0 / 99.0	2.32	1062752.95	9714.855919	1104.6	false
PFOA 1	413.0 / 369.0	2.71	3551933.53	10326.914009	921.2	false
PFOA 2	413.0 / 169.0	2.71	226064.95	10121.411629	875.1	false
PFNA 1	463.0 / 419.0	3.11	3442576.47	10047.185055	870.1	false
PFNA 2	463.0 / 219.0	3.11	1068510.97	10108.558837	1018.0	false
PFOS 1	499.0 / 80.0	3.10	5888305.73	9674.048541	719.2	false
PFOS 2	499.0 / 99.0	3.10	1040866.54	9849.093945	1187.7	false
PFDA 1	513.0 / 469.0	3.47	4121337.28	9760.929085	867.9	false
PFDA 2	513.0 / 219.0	3.46	165545.81	9514.985150	1080.3	false
PFUnA 1	563.0 / 519.0	3.79	3980687.38	10323.155375	894.2	false
PFUnA 2	563.0 / 269.0	3.79	194191.57	10125.204796	674.2	false
PFDoA 1	613.0 / 569.0	4.08	3840657.97	10368.355085	1057.4	false
PFDoA 2	613.0 / 319.0	4.08	576764.61	9996.454238	1020.7	false
PFTrDA 1	663.0 / 619.0	4.33	3350407.66	10336.521146	1444.2	false
PFTrDA 2	663.0 / 169.0	4.33	218945.29	10280.911529	1007.9	false
PFTeDA 1	713.0 / 669.0	4.55	3751651.69	10217.289136	2725.0	false
PFTeDA 2	713.0 / 169.0	4.54	182332.73	10258.453725	1759.6	false
NMeFOSAA 1	570.0 / 419.0	3.62	753927.92	11007.670601	2278.1	false
NMeFOSAA 2	570.0 / 512.0	3.62	404364.11	10905.550987	1426.8	false
NEtFOSAA 1	584.0 / 419.0	3.79	707833.72	9564.590700	1144.3	false
NEtFOSAA 2	584.0 / 483.0	3.79	40332.26	9326.284871	2770.2	false

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	7654212.63	20608.833290	2863.5	false
PFBS 2	298.9 / 99.0	1.56	2213700.05	20297.167965	1861.8	false
PFHxA 1	313.0 / 269.0	1.89	5068064.70	20340.031011	123.0	false
PFHxA 2	313.0 / 119.0	1.88	377383.63	20319.191070	98.6	false
PFHpA 1	363.0 / 319.0	2.29	4752932.81	20415.792084	545.6	false
PFHpA 2	363.0 / 169.0	2.30	99502.18	20134.491774	637.6	false
PFHxS 1	399.0 / 80.0	2.32	6929917.90	20287.492034	1348.5	false
PFHxS 2	399.0 / 99.0	2.32	1934460.53	20307.425032	1153.9	false
PFOA 1	413.0 / 369.0	2.71	6162786.15	19790.684183	1174.3	false
PFOA 2	413.0 / 169.0	2.71	403546.52	19956.278277	1429.0	false
PFNA 1	463.0 / 419.0	3.11	6224206.25	19951.374879	1314.8	false
PFNA 2	463.0 / 219.0	3.11	1903895.81	19778.192118	1655.3	false
PFOS 1	499.0 / 80.0	3.10	10402856.43	20553.887374	904.0	true
PFOS 2	499.0 / 99.0	3.10	1792140.82	20395.319474	1641.5	false
PFDA 1	513.0 / 469.0	3.47	7455074.70	20322.432148	1181.3	false
PFDA 2	513.0 / 219.0	3.47	311824.53	20632.792594	1380.7	false
PFUnA 1	563.0 / 519.0	3.79	6840458.50	19682.270401	830.9	false
PFUnA 2	563.0 / 269.0	3.79	343323.53	19852.219250	642.0	false
PFDoA 1	613.0 / 569.0	4.07	7074590.20	19521.253987	1036.7	false
PFDoA 2	613.0 / 319.0	4.07	1117673.36	19813.751199	984.9	false
PFTTrDA 1	663.0 / 619.0	4.32	6045542.29	19405.559967	1420.4	false
PFTTrDA 2	663.0 / 169.0	4.32	396998.36	19399.087023	1127.9	false
PFTeDA 1	713.0 / 669.0	4.54	6908120.06	19583.319829	2951.8	false
PFTeDA 2	713.0 / 169.0	4.54	332887.97	19499.706134	2522.7	false
NMeFOSAA 1	570.0 / 419.0	3.62	1331189.45	18898.442593	2363.5	false
NMeFOSAA 2	570.0 / 512.0	3.62	719500.36	18905.673956	1612.0	false
NEtFOSAA 1	584.0 / 419.0	3.78	1231583.02	20455.019164	1168.4	false
NEtFOSAA 2	584.0 / 483.0	3.78	71957.40	20511.980648	877.0	false

Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.10	91402.83	234.027671	1231.7	false
d3-MeFOSAA	573.0 / 419.0	3.65	16104.22	252.745204	203.5	false
d5-EtFOSAA	589.0 / 419.0	3.81	18885.04	261.116785	197.5	false
13C5-PFHxA	318.0 / 273.0	1.89	61468.01	262.567314	846.3	false
13C4-PFHpA	367.0 / 322.0	2.30	69894.37	262.427043	1233.4	false
13C8-PFOA	421.0 / 376.0	2.72	82686.75	255.212785	7328.7	false
13C9-PFNA	472.0 / 427.0	3.12	91536.04	247.430463	984.5	false
13C6-PFDA	519.0 / 474.0	3.48	97086.56	246.733475	862.5	false
13C7-PFUnA	570.0 / 525.0	3.81	90055.69	247.760751	681.9	false
13C2-PFTeDA	715.0 / 670.0	4.58	76389.03	242.249601	2670.6	false
13C3-PFBS	302.0 / 99.0	1.55	26120.14	225.022462	521.2	false
13C3-PFHxS	402.0 / 99.0	2.33	24312.83	231.144826	504.5	false
13C8-PFOS	507.0 / 99.0	3.12	29809.56	250.871078	289.5	false

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.09	107747.25	265.932266	1391.1	false
d3-MeFOSAA	573.0 / 419.0	3.64	17700.53	237.867686	243.9	false
d5-EtFOSAA	589.0 / 419.0	3.80	22032.11	260.842878	257.9	false
13C5-PFHxA	318.0 / 273.0	1.89	67688.32	254.187234	641.8	false
13C4-PFHpA	367.0 / 322.0	2.30	76065.72	251.075240	798.7	false
13C8-PFOA	421.0 / 376.0	2.72	96880.10	262.875155	404.7	false
13C9-PFNA	472.0 / 427.0	3.11	109970.74	261.328420	1372.3	false
13C6-PFDA	519.0 / 474.0	3.48	103376.35	253.248818	1556.3	false
13C7-PFUnA	570.0 / 525.0	3.80	99154.47	262.960755	932.2	false
13C2-PFTeDA	715.0 / 670.0	4.57	86008.02	262.922814	1938.6	false
13C3-PFBS	302.0 / 99.0	1.55	29228.78	215.609121	465.4	false
13C3-PFHxS	402.0 / 99.0	2.32	29626.05	241.172849	441.9	false
13C8-PFOS	507.0 / 99.0	3.11	33752.70	243.225761	275.4	false

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.08	95394.66	249.447374	1919.0	false
d3-MeFOSAA	573.0 / 419.0	3.63	16732.69	255.434971	259.5	false
d5-EtFOSAA	589.0 / 419.0	3.79	16744.24	225.192349	304.7	false
13C5-PFHxA	318.0 / 273.0	1.88	59853.55	230.325952	495.7	false
13C4-PFHpA	367.0 / 322.0	2.29	72363.27	244.763156	5134.6	false
13C8-PFOA	421.0 / 376.0	2.71	92242.14	256.482263	3147.3	false
13C9-PFNA	472.0 / 427.0	3.10	106517.52	259.384215	1506.1	false
13C6-PFDA	519.0 / 474.0	3.47	99092.64	257.192135	1016.5	false
13C7-PFUnA	570.0 / 525.0	3.79	101859.96	286.201660	947.8	false
13C2-PFTeDA	715.0 / 670.0	4.56	75947.40	245.975733	2310.8	false
13C3-PFBS	302.0 / 99.0	1.55	26105.02	218.748838	604.7	false
13C3-PFHxS	402.0 / 99.0	2.32	26545.24	245.474666	396.8	false
13C8-PFOS	507.0 / 99.0	3.10	27286.93	223.367998	263.5	false

Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.08	95903.63	245.945631	1244.5	false
d3-MeFOSAA	573.0 / 419.0	3.62	15347.55	232.186572	188.7	false
d5-EtFOSAA	589.0 / 419.0	3.79	19076.22	254.251713	210.8	false
13C5-PFHxA	318.0 / 273.0	1.88	58835.13	235.058052	1009.1	false
13C4-PFHpA	367.0 / 322.0	2.29	73044.35	256.507439	778.8	false
13C8-PFOA	421.0 / 376.0	2.70	89256.01	257.662297	1337.8	false
13C9-PFNA	472.0 / 427.0	3.10	96659.60	244.372857	1496.3	false
13C6-PFDA	519.0 / 474.0	3.46	97605.58	248.450649	1104.6	false
13C7-PFUnA	570.0 / 525.0	3.78	85263.94	234.954208	671.4	false
13C2-PFTeDA	715.0 / 670.0	4.55	72740.35	231.048930	2036.8	false
13C3-PFBS	302.0 / 99.0	1.55	24473.16	203.233433	669.1	false
13C3-PFHxS	402.0 / 99.0	2.32	23731.17	217.481590	485.7	false
13C8-PFOS	507.0 / 99.0	3.10	28732.45	233.089271	315.7	false

Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.07	87520.82	248.975274	984.0	false
d3-MeFOSAA	573.0 / 419.0	3.62	15905.32	236.383719	163.7	false
d5-EtFOSAA	589.0 / 419.0	3.78	16835.01	220.425706	271.8	false
13C5-PFHxA	318.0 / 273.0	1.88	61167.94	257.145365	677.6	false
13C4-PFHpA	367.0 / 322.0	2.29	69461.61	256.669677	849.4	false
13C8-PFOA	421.0 / 376.0	2.70	84283.75	256.019871	1295.1	false
13C9-PFNA	472.0 / 427.0	3.10	93667.25	249.179395	1439.8	false
13C6-PFDA	519.0 / 474.0	3.46	97196.35	274.445566	2304.2	false
13C7-PFUnA	570.0 / 525.0	3.78	81503.66	249.135582	792.6	false
13C2-PFTeDA	715.0 / 670.0	4.55	71548.15	252.097071	2268.3	false
13C3-PFBS	302.0 / 99.0	1.55	26519.94	216.348971	787.4	false
13C3-PFHxS	402.0 / 99.0	2.31	22766.78	204.966129	549.1	false
13C8-PFOS	507.0 / 99.0	3.10	28458.87	226.800752	280.5	false



Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.07	102072.61	251.235272	905.7	false
d3-MeFOSAA	573.0 / 419.0	3.61	18026.94	285.381847	140.7	false
d5-EtFOSAA	589.0 / 419.0	3.78	19940.39	278.106701	245.9	false
13C5-PFHxA	318.0 / 273.0	1.87	67298.42	264.503275	733.1	false
13C4-PFHpA	367.0 / 322.0	2.28	72755.48	251.342992	508.8	false
13C8-PFOA	421.0 / 376.0	2.70	85622.31	243.157749	1201.3	false
13C9-PFNA	472.0 / 427.0	3.09	103069.19	256.344825	1142.1	false
13C6-PFDA	519.0 / 474.0	3.45	101281.21	247.435316	1442.1	false
13C7-PFUnA	570.0 / 525.0	3.78	91776.59	242.726450	856.9	false
13C2-PFTeDA	715.0 / 670.0	4.54	84788.29	258.482884	1567.2	false
13C3-PFBS	302.0 / 99.0	1.54	30399.13	264.163371	680.5	false
13C3-PFHxS	402.0 / 99.0	2.31	27375.94	262.529838	495.9	false
13C8-PFOS	507.0 / 99.0	3.09	30568.34	259.494294	315.3	false

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.07	99995.01	254.436513	1141.6	false
d3-MeFOSAA	573.0 / 419.0	3.62	18400.21	319.413436	102.1	false
d5-EtFOSAA	589.0 / 419.0	3.78	16351.10	250.063868	251.7	false
13C5-PFHxA	318.0 / 273.0	1.87	63134.84	246.212808	622.1	false
13C4-PFHpA	367.0 / 322.0	2.28	66285.64	227.214453	928.8	false
13C8-PFOA	421.0 / 376.0	2.70	77573.52	218.589880	452635.8	false
13C9-PFNA	472.0 / 427.0	3.09	93994.33	231.959824	113653.9	false
13C6-PFDA	519.0 / 474.0	3.45	88095.93	222.494042	731.4	false
13C7-PFUnA	570.0 / 525.0	3.78	82754.96	226.260594	1283.3	false
13C2-PFTeDA	715.0 / 670.0	4.54	81617.66	257.222966	1991.1	false
13C3-PFBS	302.0 / 99.0	1.54	29660.00	282.623804	815.0	false
13C3-PFHxS	402.0 / 99.0	2.31	24033.73	252.730102	656.4	false
13C8-PFOS	507.0 / 99.0	3.09	25557.23	237.900846	289.4	false

Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	36035.22	104.635578	126.2	true
PFBS 2	298.9 / 99.0	1.57	10918.15	109.976962	78.2	true
PFHxA 1	313.0 / 269.0	1.90	32164.19	98.968181	3.3	false
PFHxA 2	313.0 / 119.0	1.91	2959.44	113.183087	3.5	false
PFHpA 1	363.0 / 319.0	2.32	32551.91	113.465532	39.8	false
PFHpA 2	363.0 / 169.0	2.32	1000.19	114.343231	29.1	false
PFHxS 1	399.0 / 80.0	2.34	44418.07	105.225987	134.5	false
PFHxS 2	399.0 / 99.0	2.34	12198.64	98.139274	86.9	false
PFOA 1	413.0 / 369.0	2.73	42708.15	113.608497	67.5	false
PFOA 2	413.0 / 169.0	2.73	2568.95	104.849376	46.6	false
PFNA 1	463.0 / 419.0	3.14	40302.36	100.132667	94.3	false
PFNA 2	463.0 / 219.0	3.14	13162.53	111.702594	118.3	false
PFOS 1	499.0 / 80.0	3.13	65728.52	112.599020	102.9	false
PFOS 2	499.0 / 99.0	3.13	11345.50	109.512886	100.1	false
PFDA 1	513.0 / 469.0	3.50	49242.60	100.375074	136.7	false
PFDA 2	513.0 / 219.0	3.49	2266.31	112.406023	88.7	false
PFUnA 1	563.0 / 519.0	3.83	45897.49	111.527231	163.3	false
PFUnA 2	563.0 / 269.0	3.82	2890.40	123.087165	49.3	false
PFDoA 1	613.0 / 569.0	4.11	39723.04	90.939755	179.1	false
PFDoA 2	613.0 / 319.0	4.11	6547.85	86.545687	145.5	false
PFTrDA 1	663.0 / 619.0	4.37	34866.78	85.967911	309.6	false
PFTrDA 2	663.0 / 169.0	4.36	2214.00	78.198175	110.2	false
PFTeDA 1	713.0 / 669.0	4.59	40930.04	81.728327	685.4	false
PFTeDA 2	713.0 / 169.0	4.58	2198.76	89.886117	212.0	false
NMeFOSAA 1	570.0 / 419.0	3.65	8081.03	75.824991	298.4	false
NMeFOSAA 2	570.0 / 512.0	3.65	3645.21	3.453918	224.2	false
NEtFOSAA 1	584.0 / 419.0	3.82	8180.80	102.765216	524.6	false
NEtFOSAA 2	584.0 / 483.0	3.82	421.19	< 0	48.5	false
PFBA	213.0 / 169.0	1.16	274282.84	323.748990	293.9	false
PFPeA	263.0 / 219.0	1.50	41410.96	110.075435	39.4	true
PFHpS 1	449.0 / 80.0	2.74	55287.61	111.471696	205.0	false
PFHpS 2	449.0 / 99.0	2.74	15136.96	105.874416	171.7	false
PFDS 1	599.0 / 80.0	3.79	58148.64	111.914501	117.9	false
PFDS 2	599.0 / 99.0	3.79	13573.63	105.391068	133.6	false
4:2FTS 1	327.0 / 307.0	1.84	5605.23	96.393062	358.8	false
4:2FTS 2	327.0 / 80.0	1.84	1678.80	104.205272	61.6	false
6:2FTS 1	427.0 / 407.0	2.70	8882.93	89.677932	50.6	true
6:2FTS 2	427.0 / 81.0	2.70	2211.28	105.247563	36.6	true
8:2FTS 1	527.0 / 507.0	3.47	12456.06	105.772851	211.4	false
8:2FTS 2	527.0 / 487.0	3.47	1665.03	105.935514	121.4	false
PFPeS 1	349.0 / 99.0	1.94	8004.36	91.617177	162.6	false
PFPeS 2	349.0 / 80.0	1.94	19604.88	91.535739	186.8	false
PFNS 1	549.0 / 99.0	3.47	11804.28	99.377409	205.6	false
PFNS 2	549.0 / 80.0	3.47	59763.51	103.968941	157.3	false

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	93283.23	249.370464	246.3	false
PFBS 2	298.9 / 99.0	1.57	26423.99	242.180085	146.1	false
PFHxA 1	313.0 / 269.0	1.90	81008.49	269.910942	7.1	false
PFHxA 2	313.0 / 119.0	1.89	5592.03	230.645561	6.5	false
PFHpA 1	363.0 / 319.0	2.31	75049.99	261.922885	57.6	false
PFHpA 2	363.0 / 169.0	2.31	1438.39	176.217872	28.5	false
PFHxS 1	399.0 / 80.0	2.33	108184.43	232.865372	188.9	false
PFHxS 2	399.0 / 99.0	2.33	30598.50	231.314187	310.4	false
PFOA 1	413.0 / 369.0	2.73	100033.19	242.259718	128.9	false
PFOA 2	413.0 / 169.0	2.73	7259.40	273.238913	110.3	false
PFNA 1	463.0 / 419.0	3.13	107846.09	263.216231	192.5	false
PFNA 2	463.0 / 219.0	3.12	28095.55	220.916460	213.9	false
PFOS 1	499.0 / 80.0	3.12	165271.40	245.681372	161.0	false
PFOS 2	499.0 / 99.0	3.12	29437.35	249.316942	212.7	true
PFDA 1	513.0 / 469.0	3.49	122994.62	264.467518	236.7	false
PFDA 2	513.0 / 219.0	3.48	4770.77	245.500787	791.7	false
PFUnA 1	563.0 / 519.0	3.82	106014.14	244.824605	237.3	false
PFUnA 2	563.0 / 269.0	3.81	5018.00	212.105633	81.5	false
PFDoA 1	613.0 / 569.0	4.10	107705.01	247.072023	318.6	false
PFDoA 2	613.0 / 319.0	4.10	19126.54	274.615048	276.9	false
PFTrDA 1	663.0 / 619.0	4.35	90249.73	241.563939	481.4	false
PFTrDA 2	663.0 / 169.0	4.35	6147.30	247.986856	208.6	false
PFTeDA 1	713.0 / 669.0	4.58	109852.37	253.645310	931.4	false
PFTeDA 2	713.0 / 169.0	4.58	5150.42	238.937138	369.4	false
NMeFOSAA 1	570.0 / 419.0	3.65	21539.90	268.876365	843.1	false
NMeFOSAA 2	570.0 / 512.0	3.65	11614.86	218.419800	528.2	false
NEtFOSAA 1	584.0 / 419.0	3.81	21525.62	248.995881	397.7	false
NEtFOSAA 2	584.0 / 483.0	3.80	1206.24	91.347524	290.9	false
PFBA	213.0 / 169.0	1.16	282582.13	277.979881	306.9	true
PFPeA	263.0 / 219.0	1.50	101703.03	238.839403	87.9	false
PFHpS 1	449.0 / 80.0	2.73	144041.41	255.702148	249.4	false
PFHpS 2	449.0 / 99.0	2.73	40137.90	267.301202	279.7	false
PFDS 1	599.0 / 80.0	3.78	143161.01	259.367429	182.9	false
PFDS 2	599.0 / 99.0	3.78	34635.23	266.085456	274.4	false
4:2FTS 1	327.0 / 307.0	1.84	13578.44	250.209429	602.6	false
4:2FTS 2	327.0 / 80.0	1.84	3907.90	278.101780	130.4	false
6:2FTS 1	427.0 / 407.0	2.69	24621.39	255.678287	120.2	true
6:2FTS 2	427.0 / 81.0	2.69	5408.34	247.622223	46.3	true
8:2FTS 1	527.0 / 507.0	3.47	25710.09	227.155113	253.9	false
8:2FTS 2	527.0 / 487.0	3.46	3042.91	237.139434	198.6	false
PFPeS 1	349.0 / 99.0	1.93	19780.90	252.281280	295.4	false
PFPeS 2	349.0 / 80.0	1.93	54480.01	274.305996	348.8	false
PFNS 1	549.0 / 99.0	3.46	32158.99	278.495355	384.5	false
PFNS 2	549.0 / 80.0	3.46	164307.03	279.971110	201.2	false

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	163617.84	495.098560	296.3	false
PFBS 2	298.9 / 99.0	1.57	45956.46	475.121472	212.6	false
PFHxA 1	313.0 / 269.0	1.89	123711.77	490.752146	10.9	false
PFHxA 2	313.0 / 119.0	1.89	9937.29	514.901118	10.8	false
PFHpA 1	363.0 / 319.0	2.31	119885.50	452.888167	85.7	false
PFHpA 2	363.0 / 169.0	2.31	3804.54	629.079630	67.0	false
PFHxS 1	399.0 / 80.0	2.33	185842.71	467.824000	256.2	false
PFHxS 2	399.0 / 99.0	2.33	54144.25	484.563583	238.2	false
PFOA 1	413.0 / 369.0	2.72	178566.76	467.456638	160.8	false
PFOA 2	413.0 / 169.0	2.72	10469.56	421.303706	138.9	false
PFNA 1	463.0 / 419.0	3.12	170504.46	450.336433	203.9	false
PFNA 2	463.0 / 219.0	3.12	51980.47	448.287193	301.6	false
PFOS 1	499.0 / 80.0	3.12	275067.90	509.369654	204.8	false
PFOS 2	499.0 / 99.0	3.12	48946.70	518.836969	287.5	false
PFDA 1	513.0 / 469.0	3.48	213151.42	495.556524	301.2	false
PFDA 2	513.0 / 219.0	3.48	8539.13	479.073328	239.1	false
PFUnA 1	563.0 / 519.0	3.81	185383.49	423.690587	269.5	false
PFUnA 2	563.0 / 269.0	3.81	10671.72	472.544890	165.4	false
PFDoA 1	613.0 / 569.0	4.09	184868.00	506.360909	343.9	false
PFDoA 2	613.0 / 319.0	4.09	28751.08	494.661881	331.3	false
PFTrDA 1	663.0 / 619.0	4.35	151211.59	488.700899	597.4	false
PFTrDA 2	663.0 / 169.0	4.34	10123.70	495.036348	322.3	false
PFTeDA 1	713.0 / 669.0	4.57	182656.44	515.154084	1232.8	false
PFTeDA 2	713.0 / 169.0	4.56	8526.49	490.005825	501.7	false
NMeFOSAA 1	570.0 / 419.0	3.63	34656.73	500.524214	2338.0	false
NMeFOSAA 2	570.0 / 512.0	3.64	18345.00	439.990383	658.5	false
NEtFOSAA 1	584.0 / 419.0	3.80	31971.45	523.904836	633.3	false
NEtFOSAA 2	584.0 / 483.0	3.80	2527.25	575.872817	8091.0	false
PFBA	213.0 / 169.0	1.16	338401.38	452.736792	378.2	true
PFPeA	263.0 / 219.0	1.49	180592.85	474.732280	129.5	false
PFHpS 1	449.0 / 80.0	2.72	240972.94	454.128740	451.0	false
PFHpS 2	449.0 / 99.0	2.72	63236.72	456.655211	353.1	false
PFDS 1	599.0 / 80.0	3.78	245457.66	437.824513	186.6	false
PFDS 2	599.0 / 99.0	3.78	56942.67	435.796282	297.3	false
4:2FTS 1	327.0 / 307.0	1.84	25706.93	574.918086	723.1	false
4:2FTS 2	327.0 / 80.0	1.84	5772.24	501.283737	150.2	false
6:2FTS 1	427.0 / 407.0	2.68	40900.98	513.985188	147.6	false
6:2FTS 2	427.0 / 81.0	2.68	8331.60	454.780124	80.9	true
8:2FTS 1	527.0 / 507.0	3.46	44875.29	477.778650	356.6	false
8:2FTS 2	527.0 / 487.0	3.45	4259.24	426.636614	245.1	false
PFPeS 1	349.0 / 99.0	1.93	32802.95	505.966643	353.8	false
PFPeS 2	349.0 / 80.0	1.93	82714.77	491.366490	335.7	false
PFNS 1	549.0 / 99.0	3.45	54604.40	505.304674	487.3	false
PFNS 2	549.0 / 80.0	3.45	266173.91	478.179343	298.4	false

Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	336045.72	1091.288759	552.2	false
PFBS 2	298.9 / 99.0	1.56	98081.89	1086.381545	407.4	false
PFHxA 1	313.0 / 269.0	1.89	240693.36	1004.472242	18.1	false
PFHxA 2	313.0 / 119.0	1.89	17814.42	980.952621	16.5	false
PFHpA 1	363.0 / 319.0	2.30	251954.77	963.772233	144.8	false
PFHpA 2	363.0 / 169.0	2.30	6187.13	1061.256400	84.1	false
PFHxS 1	399.0 / 80.0	2.32	369801.30	1074.776448	333.3	false
PFHxS 2	399.0 / 99.0	2.32	106671.06	1107.476178	416.8	false
PFOA 1	413.0 / 369.0	2.71	347996.75	956.844142	237.9	false
PFOA 2	413.0 / 169.0	2.71	24237.17	1028.034772	244.5	false
PFNA 1	463.0 / 419.0	3.11	345587.51	1046.243999	410.7	false
PFNA 2	463.0 / 219.0	3.11	106652.75	1050.052047	427.7	false
PFOS 1	499.0 / 80.0	3.11	549475.41	954.753371	298.0	false
PFOS 2	499.0 / 99.0	3.11	96044.01	957.197512	432.6	false
PFDA 1	513.0 / 469.0	3.47	409723.46	987.592944	454.6	false
PFDA 2	513.0 / 219.0	3.47	17306.29	1010.924950	319.9	false
PFUnA 1	563.0 / 519.0	3.80	370869.35	1026.343861	315.7	false
PFUnA 2	563.0 / 269.0	3.80	17491.40	955.215522	206.5	false
PFDoA 1	613.0 / 569.0	4.09	374694.74	1050.478389	498.6	false
PFDoA 2	613.0 / 319.0	4.09	54643.36	971.395687	458.0	false
PFTrDA 1	663.0 / 619.0	4.34	321677.62	1126.764608	812.9	false
PFTrDA 2	663.0 / 169.0	4.34	21874.98	1164.067670	449.0	false
PFTeDA 1	713.0 / 669.0	4.56	357047.01	1095.645152	1545.8	false
PFTeDA 2	713.0 / 169.0	4.56	17306.66	1092.239213	701.8	false
NMeFOSAA 1	570.0 / 419.0	3.63	68030.30	1133.404189	751.5	false
NMeFOSAA 2	570.0 / 512.0	3.63	39158.03	1163.925478	709.7	false
NEtFOSAA 1	584.0 / 419.0	3.80	66289.88	941.680018	754.6	false
NEtFOSAA 2	584.0 / 483.0	3.80	4059.44	854.223413	43600.8	false
PFBA	213.0 / 169.0	1.16	568531.40	1000.575982	471.7	true
PFPeA	263.0 / 219.0	1.49	386437.36	1030.497799	218.5	false
PFHpS 1	449.0 / 80.0	2.72	512409.44	1005.639728	399.3	false
PFHpS 2	449.0 / 99.0	2.72	127236.72	973.222977	597.2	false
PFDS 1	599.0 / 80.0	3.77	480293.19	1033.321894	311.7	false
PFDS 2	599.0 / 99.0	3.77	113853.02	1063.966186	481.4	false
4:2FTS 1	327.0 / 307.0	1.83	46942.66	931.714716	812.0	false
4:2FTS 2	327.0 / 80.0	1.83	10776.50	844.714629	193.8	false
6:2FTS 1	427.0 / 407.0	2.68	76417.17	989.303496	220.2	false
6:2FTS 2	427.0 / 81.0	2.68	17413.42	978.000110	155.9	false
8:2FTS 1	527.0 / 507.0	3.45	93336.00	1094.186929	520.1	false
8:2FTS 2	527.0 / 487.0	3.45	10333.23	1249.828356	689.9	false
PFPeS 1	349.0 / 99.0	1.92	66798.71	1088.370190	570.0	false
PFPeS 2	349.0 / 80.0	1.92	170724.37	1063.007149	742.1	false
PFNS 1	549.0 / 99.0	3.45	102058.77	972.785261	489.9	false
PFNS 2	549.0 / 80.0	3.45	534555.81	982.522802	359.1	false

Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	776289.58	2332.691625	927.0	false
PFBS 2	298.9 / 99.0	1.56	228434.75	2339.199841	734.2	false
PFHxA 1	313.0 / 269.0	1.89	609668.03	2495.865956	39.8	false
PFHxA 2	313.0 / 119.0	1.89	44913.51	2451.366061	32.3	false
PFHpA 1	363.0 / 319.0	2.30	584043.68	2376.996854	232.0	false
PFHpA 2	363.0 / 169.0	2.30	13193.99	2476.950265	211.4	false
PFHxS 1	399.0 / 80.0	2.32	886495.01	2696.493262	388.0	false
PFHxS 2	399.0 / 99.0	2.32	252473.06	2749.725828	571.1	false
PFOA 1	413.0 / 369.0	2.71	834165.44	2452.232813	357.8	false
PFOA 2	413.0 / 169.0	2.71	53993.69	2444.883328	444.0	false
PFNA 1	463.0 / 419.0	3.11	783461.97	2491.510736	552.9	false
PFNA 2	463.0 / 219.0	3.11	254909.55	2632.290752	603.7	false
PFOS 1	499.0 / 80.0	3.11	1306443.89	2304.985979	452.4	false
PFOS 2	499.0 / 99.0	3.11	224020.69	2270.102428	545.6	false
PFDA 1	513.0 / 469.0	3.47	986588.88	2418.646707	564.2	false
PFDA 2	513.0 / 219.0	3.47	39607.95	2354.317167	415.6	false
PFUnA 1	563.0 / 519.0	3.80	871741.30	2538.187940	460.9	false
PFUnA 2	563.0 / 269.0	3.80	43333.05	2525.361248	300.0	false
PFDoA 1	613.0 / 569.0	4.09	821796.76	2565.539851	662.4	false
PFDoA 2	613.0 / 319.0	4.09	135656.47	2712.576260	522.0	false
PFTrDA 1	663.0 / 619.0	4.33	735746.86	2664.921530	986.7	false
PFTrDA 2	663.0 / 169.0	4.33	48743.98	2684.712399	618.7	false
PFTeDA 1	713.0 / 669.0	4.56	816378.76	2603.218162	1929.9	false
PFTeDA 2	713.0 / 169.0	4.55	40737.36	2680.771848	1193.3	false
NMeFOSAA 1	570.0 / 419.0	3.63	151508.36	2465.257046	2245.1	false
NMeFOSAA 2	570.0 / 512.0	3.63	88173.15	2616.439396	615.9	false
NEtFOSAA 1	584.0 / 419.0	3.79	155433.42	2520.477059	648.0	false
NEtFOSAA 2	584.0 / 483.0	3.79	9620.27	2567.369144	1231310.6	false
PFBA	213.0 / 169.0	1.15	1201173.82	2442.772021	714.2	true
PFPeA	263.0 / 219.0	1.49	919554.82	2562.506385	333.2	false
PFHpS 1	449.0 / 80.0	2.72	1121231.72	2338.743541	703.1	false
PFHpS 2	449.0 / 99.0	2.72	298286.60	2448.668895	806.6	false
PFDS 1	599.0 / 80.0	3.77	1096658.76	2478.494435	475.0	false
PFDS 2	599.0 / 99.0	3.77	253737.41	2502.668394	632.5	false
4:2FTS 1	327.0 / 307.0	1.83	108183.81	2492.779722	5062.9	false
4:2FTS 2	327.0 / 80.0	1.83	28264.55	2595.656908	339.8	false
6:2FTS 1	427.0 / 407.0	2.67	176417.50	2755.605512	461.6	false
6:2FTS 2	427.0 / 81.0	2.68	40795.15	2734.948700	259.4	false
8:2FTS 1	527.0 / 507.0	3.45	230761.15	2648.770348	713.8	false
8:2FTS 2	527.0 / 487.0	3.45	19494.40	2343.014931	551.7	false
PFPeS 1	349.0 / 99.0	1.92	152257.13	2430.892628	632.5	false
PFPeS 2	349.0 / 80.0	1.92	386770.66	2349.885203	873.5	false
PFNS 1	549.0 / 99.0	3.44	252881.11	2443.650363	776.0	false
PFNS 2	549.0 / 80.0	3.44	1278483.76	2369.978474	533.6	false



Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	3735985.71	9811.581725	1503.9	false
PFBS 2	298.9 / 99.0	1.56	1134069.29	10143.472130	1449.0	false
PFHxA 1	313.0 / 269.0	1.88	2658827.36	9993.499522	90.8	false
PFHxA 2	313.0 / 119.0	1.88	200130.60	10083.260482	76.5	false
PFHpA 1	363.0 / 319.0	2.30	2497856.31	9765.162244	436.5	false
PFHpA 2	363.0 / 169.0	2.30	53385.07	9792.159108	441.5	false
PFHxS 1	399.0 / 80.0	2.32	3854430.51	9828.822898	984.2	false
PFHxS 2	399.0 / 99.0	2.32	1062752.95	9714.855919	1104.6	false
PFOA 1	413.0 / 369.0	2.71	3551933.53	10326.914009	921.2	false
PFOA 2	413.0 / 169.0	2.71	226064.95	10121.411629	875.1	false
PFNA 1	463.0 / 419.0	3.11	3442576.47	10047.185055	870.1	false
PFNA 2	463.0 / 219.0	3.11	1068510.97	10108.558837	1018.0	false
PFOS 1	499.0 / 80.0	3.10	5888305.73	9693.334326	719.2	false
PFOS 2	499.0 / 99.0	3.10	1040866.54	9848.785707	1187.7	false
PFDA 1	513.0 / 469.0	3.47	4121337.28	9760.929085	867.9	false
PFDA 2	513.0 / 219.0	3.46	165545.81	9514.985150	1080.3	false
PFUnA 1	563.0 / 519.0	3.79	3980687.38	10323.155375	894.2	false
PFUnA 2	563.0 / 269.0	3.79	194191.57	10143.434770	674.2	false
PFDoA 1	613.0 / 569.0	4.08	3840657.97	10368.355085	1057.4	false
PFDoA 2	613.0 / 319.0	4.08	576764.61	9996.454238	1020.7	false
PFTrDA 1	663.0 / 619.0	4.33	3350407.66	10336.521146	1444.2	false
PFTrDA 2	663.0 / 169.0	4.33	218945.29	10280.911529	1007.9	false
PFTeDA 1	713.0 / 669.0	4.55	3751651.69	10217.289136	2725.0	false
PFTeDA 2	713.0 / 169.0	4.54	182332.73	10258.453725	1759.6	false
NMeFOSAA 1	570.0 / 419.0	3.62	753927.92	11007.670601	2278.1	false
NMeFOSAA 2	570.0 / 512.0	3.62	404364.11	10905.550987	1426.8	false
NEtFOSAA 1	584.0 / 419.0	3.79	707833.72	9561.499046	1144.3	false
NEtFOSAA 2	584.0 / 483.0	3.79	40332.26	9339.131276	2770.2	false
PFBA	213.0 / 169.0	1.15	4817861.41	10022.506720	1151.3	false
PFPeA	263.0 / 219.0	1.49	3961354.36	9901.613883	790.5	false
PFHpS 1	449.0 / 80.0	2.72	4897654.96	10077.282401	976.1	false
PFHpS 2	449.0 / 99.0	2.72	1232000.40	10022.724172	1223.7	false
PFDS 1	599.0 / 80.0	3.76	4915515.88	9887.754435	850.5	false
PFDS 2	599.0 / 99.0	3.76	1134078.80	9982.835100	1030.1	false
4:2FTS 1	327.0 / 307.0	1.83	491941.81	10184.456210	2277.5	false
4:2FTS 2	327.0 / 80.0	1.83	129016.98	10228.657799	724.4	false
6:2FTS 1	427.0 / 407.0	2.67	746788.77	9461.565487	983.7	false
6:2FTS 2	427.0 / 81.0	2.67	183108.61	9679.898466	764.8	false
8:2FTS 1	527.0 / 507.0	3.44	886444.63	9728.525978	1561.3	false
8:2FTS 2	527.0 / 487.0	3.44	80799.80	10138.065596	1298.9	false
PFPeS 1	349.0 / 99.0	1.92	685259.62	10059.979486	1122.7	false
PFPeS 2	349.0 / 80.0	1.92	1786187.73	9954.588914	1504.3	false
PFNS 1	549.0 / 99.0	3.44	1033962.72	9633.907735	1273.7	false
PFNS 2	549.0 / 80.0	3.44	5603689.92	9992.186108	970.1	false



Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	7654212.63	20608.833290	2863.5	false
PFBS 2	298.9 / 99.0	1.56	2213700.05	20297.167965	1861.8	false
PFHxA 1	313.0 / 269.0	1.89	5068064.70	20340.031011	123.0	false
PFHxA 2	313.0 / 119.0	1.88	377383.63	20319.191070	98.6	false
PFHpA 1	363.0 / 319.0	2.29	4752932.81	20415.792084	545.6	false
PFHpA 2	363.0 / 169.0	2.30	99502.18	20114.336725	637.6	false
PFHxS 1	399.0 / 80.0	2.32	6929917.90	20287.492034	1348.5	false
PFHxS 2	399.0 / 99.0	2.32	1934460.53	20307.425032	1153.9	false
PFOA 1	413.0 / 369.0	2.71	6162786.15	19790.684183	1174.3	false
PFOA 2	413.0 / 169.0	2.71	403546.52	19956.278277	1429.0	false
PFNA 1	463.0 / 419.0	3.11	6224206.25	19951.374879	1314.8	false
PFNA 2	463.0 / 219.0	3.11	1903895.81	19778.192118	1655.3	false
PFOS 1	499.0 / 80.0	3.10	10369367.50	20529.276278	903.5	false
PFOS 2	499.0 / 99.0	3.10	1792140.82	20396.247555	1641.5	false
PFDA 1	513.0 / 469.0	3.47	7455074.70	20322.432148	1181.3	false
PFDA 2	513.0 / 219.0	3.47	311824.53	20632.792594	1380.7	false
PFUnA 1	563.0 / 519.0	3.79	6840458.50	19682.270401	830.9	false
PFUnA 2	563.0 / 269.0	3.79	343323.53	19918.250772	642.0	false
PFDoA 1	613.0 / 569.0	4.07	7074590.20	19521.253987	1036.7	false
PFDoA 2	613.0 / 319.0	4.07	1117673.36	19813.751199	984.9	false
PFTrDA 1	663.0 / 619.0	4.32	6045542.29	19405.559967	1420.4	false
PFTrDA 2	663.0 / 169.0	4.32	396998.36	19399.087023	1127.9	false
PFTeDA 1	713.0 / 669.0	4.54	6908120.06	19583.319829	2951.8	false
PFTeDA 2	713.0 / 169.0	4.54	332887.97	19499.706134	2522.7	false
NMeFOSAA 1	570.0 / 419.0	3.62	1331189.45	18898.442593	2363.5	false
NMeFOSAA 2	570.0 / 512.0	3.62	719500.36	18905.673956	1612.0	false
NEtFOSAA 1	584.0 / 419.0	3.78	1231583.02	20450.677943	1168.4	false
NEtFOSAA 2	584.0 / 483.0	3.78	71957.40	20663.403349	877.0	false
PFBA	213.0 / 169.0	1.15	9015134.27	20053.428604	1471.5	false
PFPeA	263.0 / 219.0	1.49	7565367.42	20375.234816	1002.0	false
PFHpS 1	449.0 / 80.0	2.71	8850783.59	20107.031747	1128.4	false
PFHpS 2	449.0 / 99.0	2.71	2233285.58	20075.553127	1406.4	false
PFDS 1	599.0 / 80.0	3.76	9179059.97	20484.822794	922.9	false
PFDS 2	599.0 / 99.0	3.76	2081452.15	20336.757514	1364.8	false
4:2FTS 1	327.0 / 307.0	1.83	875240.11	20162.997005	3863.1	false
4:2FTS 2	327.0 / 80.0	1.83	241519.88	20139.755471	762.7	false
6:2FTS 1	427.0 / 407.0	2.67	1335645.72	20333.866016	1203.9	false
6:2FTS 2	427.0 / 81.0	2.67	337070.27	20158.930267	752.0	false
8:2FTS 1	527.0 / 507.0	3.44	1585044.82	20486.159944	2246.8	false
8:2FTS 2	527.0 / 487.0	3.44	154038.23	no root	1115.1	false
PFPeS 1	349.0 / 99.0	1.92	1270666.37	19920.892596	1891.2	false
PFPeS 2	349.0 / 80.0	1.92	3382868.05	20125.310509	2032.9	false
PFNS 1	549.0 / 99.0	3.44	1936337.97	20759.979203	1340.8	false
PFNS 2	549.0 / 80.0	3.44	9989652.12	20486.693223	1062.2	false

Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	82548.84	253.988694	1192.7	false
13C2-PFDoA	615.0 / 570.0	4.10	91402.83	234.027671	1231.7	false
d3-MeFOSAA	573.0 / 419.0	3.65	16104.22	243.102584	203.5	false
d5-EtFOSAA	589.0 / 419.0	3.81	18885.04	261.116785	197.5	false
13C5-PFPeA	268.0 / 223.0	1.49	75030.47	259.409133	662.1	false
13C5-PFHxA	318.0 / 273.0	1.89	61468.01	262.567314	846.3	false
13C4-PFHpA	367.0 / 322.0	2.30	69894.37	262.427043	1233.4	false
13C8-PFOA	421.0 / 376.0	2.72	82686.75	255.212785	7328.7	false
13C9-PFNA	472.0 / 427.0	3.12	91536.04	247.430463	984.5	false
13C6-PFDA	519.0 / 474.0	3.48	97086.56	246.733475	862.5	false
13C7-PFUnA	570.0 / 525.0	3.81	90055.69	247.760751	681.9	false
13C2-PFTeDA	715.0 / 670.0	4.58	76389.03	242.249601	2670.6	false
13C3-PFBS	302.0 / 99.0	1.55	26120.14	225.022462	521.2	false
13C3-PFHxS	402.0 / 99.0	2.33	24312.83	231.144826	504.5	false
13C8-PFOS	507.0 / 99.0	3.12	29809.56	250.871078	289.5	false
13C2-4:2FTS	329.0 / 81.0	1.84	6260.38	228.035462	69.1	false
13C2-6:2FTS	429.0 / 81.0	2.69	13367.24	227.360088	103.6	false
13C2-8:2FTS	529.0 / 81.0	3.47	15344.88	229.891246	101.4	false

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	91782.84	257.966792	1204.9	false
13C2-PFDoA	615.0 / 570.0	4.09	107747.25	265.932266	1391.1	false
d3-MeFOSAA	573.0 / 419.0	3.64	17700.53	228.792666	243.9	false
d5-EtFOSAA	589.0 / 419.0	3.80	22032.11	260.842878	257.9	false
13C5-PFPeA	268.0 / 223.0	1.49	84049.44	265.449091	755.3	false
13C5-PFHxA	318.0 / 273.0	1.89	67688.32	254.187234	641.8	false
13C4-PFHpA	367.0 / 322.0	2.30	76065.72	251.075240	798.7	false
13C8-PFOA	421.0 / 376.0	2.72	96880.10	262.875155	404.7	false
13C9-PFNA	472.0 / 427.0	3.11	109970.74	261.328420	1372.3	false
13C6-PFDA	519.0 / 474.0	3.48	103376.35	253.248818	1556.3	false
13C7-PFUnA	570.0 / 525.0	3.80	99154.47	262.960755	932.2	false
13C2-PFTeDA	715.0 / 670.0	4.57	86008.02	262.922814	1938.6	false
13C3-PFBS	302.0 / 99.0	1.55	29228.78	215.609121	465.4	false
13C3-PFHxS	402.0 / 99.0	2.32	29626.05	241.172849	441.9	false
13C8-PFOS	507.0 / 99.0	3.11	33752.70	243.225761	275.4	false
13C2-4:2FTS	329.0 / 81.0	1.83	6911.28	215.559023	70.7	false
13C2-6:2FTS	429.0 / 81.0	2.68	15598.38	227.173633	120.8	false
13C2-8:2FTS	529.0 / 81.0	3.46	17598.29	225.753991	105.7	false

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	84390.82	243.515211	1256.4	false
13C2-PFDoA	615.0 / 570.0	4.08	95394.66	249.447374	1919.0	false
d3-MeFOSAA	573.0 / 419.0	3.63	16732.69	245.689732	259.5	false
d5-EtFOSAA	589.0 / 419.0	3.79	16744.24	225.192349	304.7	false
13C5-PFPeA	268.0 / 223.0	1.49	74758.18	242.400635	557.6	false
13C5-PFHxA	318.0 / 273.0	1.88	59853.55	230.325952	495.7	false
13C4-PFHpA	367.0 / 322.0	2.29	72363.27	244.763156	5134.6	false
13C8-PFOA	421.0 / 376.0	2.71	92242.14	256.482263	3147.3	false
13C9-PFNA	472.0 / 427.0	3.10	106517.52	259.384215	1506.1	false
13C6-PFDA	519.0 / 474.0	3.47	99092.64	257.192135	1016.5	false
13C7-PFUnA	570.0 / 525.0	3.79	101859.96	286.201660	947.8	false
13C2-PFTeDA	715.0 / 670.0	4.56	75947.40	245.975733	2310.8	false
13C3-PFBS	302.0 / 99.0	1.55	26105.02	218.748838	604.7	false
13C3-PFHxS	402.0 / 99.0	2.32	26545.24	245.474666	396.8	false
13C8-PFOS	507.0 / 99.0	3.10	27286.93	223.367998	263.5	false
13C2-4:2FTS	329.0 / 81.0	1.83	6091.14	215.810070	68.1	false
13C2-6:2FTS	429.0 / 81.0	2.68	13662.68	226.037117	142.2	false
13C2-8:2FTS	529.0 / 81.0	3.45	14718.46	214.482942	130.3	false

Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	82052.62	237.941500	1087.0	false
13C2-PFDoA	615.0 / 570.0	4.08	95903.63	245.945631	1244.5	false
d3-MeFOSAA	573.0 / 419.0	3.62	15347.55	223.328296	188.7	false
d5-EtFOSAA	589.0 / 419.0	3.79	19076.22	254.251713	210.8	false
13C5-PFPeA	268.0 / 223.0	1.48	73519.91	239.566927	759.0	false
13C5-PFHxA	318.0 / 273.0	1.88	58835.13	235.058052	1009.1	false
13C4-PFHpA	367.0 / 322.0	2.29	73044.35	256.507439	778.8	false
13C8-PFOA	421.0 / 376.0	2.70	89256.01	257.662297	1337.8	false
13C9-PFNA	472.0 / 427.0	3.10	96659.60	244.372857	1496.3	false
13C6-PFDA	519.0 / 474.0	3.46	97605.58	248.450649	1104.6	false
13C7-PFUnA	570.0 / 525.0	3.78	85263.94	234.954208	671.4	false
13C2-PFTeDA	715.0 / 670.0	4.55	72740.35	231.048930	2036.8	false
13C3-PFBS	302.0 / 99.0	1.55	24473.16	203.233433	669.1	false
13C3-PFHxS	402.0 / 99.0	2.32	23731.17	217.481590	485.7	false
13C8-PFOS	507.0 / 99.0	3.10	28732.45	233.089271	315.7	false
13C2-4:2FTS	329.0 / 81.0	1.82	7010.14	246.140680	69.4	false
13C2-6:2FTS	429.0 / 81.0	2.67	13705.69	224.712898	125.1	false
13C2-8:2FTS	529.0 / 81.0	3.45	12680.51	183.126152	131.3	false

Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	82198.97	252.965040	1096.8	false
13C2-PFDoA	615.0 / 570.0	4.07	87520.82	248.975274	984.0	false
d3-MeFOSAA	573.0 / 419.0	3.62	15905.32	227.365315	163.7	false
d5-EtFOSAA	589.0 / 419.0	3.78	16835.01	220.425706	271.8	false
13C5-PFPeA	268.0 / 223.0	1.48	70268.14	242.994684	699.8	false
13C5-PFHxA	318.0 / 273.0	1.88	61167.94	257.145365	677.6	false
13C4-PFHpA	367.0 / 322.0	2.29	69461.61	256.669677	849.4	false
13C8-PFOA	421.0 / 376.0	2.70	84283.75	256.019871	1295.1	false
13C9-PFNA	472.0 / 427.0	3.10	93667.25	249.179395	1439.8	false
13C6-PFDA	519.0 / 474.0	3.46	97196.35	274.445566	2304.2	false
13C7-PFUnA	570.0 / 525.0	3.78	81503.66	249.135582	792.6	false
13C2-PFTeDA	715.0 / 670.0	4.55	71548.15	252.097071	2268.3	false
13C3-PFBS	302.0 / 99.0	1.55	26519.94	216.348971	787.4	false
13C3-PFHxS	402.0 / 99.0	2.31	22766.78	204.966129	549.1	false
13C8-PFOS	507.0 / 99.0	3.10	28458.87	226.800752	280.5	false
13C2-4:2FTS	329.0 / 81.0	1.83	6182.84	213.266028	91.1	false
13C2-6:2FTS	429.0 / 81.0	2.67	11825.19	190.463821	154.1	false
13C2-8:2FTS	529.0 / 81.0	3.45	17153.04	243.350439	121.2	false

Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	87599.94	251.402877	1220.0	false
13C2-PFDoA	615.0 / 570.0	4.07	102072.61	251.235272	905.7	false
d3-MeFOSAA	573.0 / 419.0	3.61	18026.94	274.494088	140.7	false
d5-EtFOSAA	589.0 / 419.0	3.78	19940.39	278.106701	245.9	false
13C5-PFPeA	268.0 / 223.0	1.48	78292.64	252.482663	807.6	false
13C5-PFHxA	318.0 / 273.0	1.87	67298.42	264.503275	733.1	false
13C4-PFHpA	367.0 / 322.0	2.28	72755.48	251.342992	508.8	false
13C8-PFOA	421.0 / 376.0	2.70	85622.31	243.157749	1201.3	false
13C9-PFNA	472.0 / 427.0	3.09	103069.19	256.344825	1142.1	false
13C6-PFDA	519.0 / 474.0	3.45	101281.21	247.435316	1442.1	false
13C7-PFUnA	570.0 / 525.0	3.78	91776.59	242.726450	856.9	false
13C2-PFTeDA	715.0 / 670.0	4.54	84788.29	258.482884	1567.2	false
13C3-PFBS	302.0 / 99.0	1.54	30399.13	264.163371	680.5	false
13C3-PFHxS	402.0 / 99.0	2.31	27375.94	262.529838	495.9	false
13C8-PFOS	507.0 / 99.0	3.09	30568.34	259.494294	315.3	false
13C2-4:2FTS	329.0 / 81.0	1.82	7032.33	258.381835	60.0	false
13C2-6:2FTS	429.0 / 81.0	2.67	15962.68	273.866686	117.9	false
13C2-8:2FTS	529.0 / 81.0	3.44	18297.86	276.516027	144.4	false

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	83131.67	252.219887	1095.1	false
13C2-PFDoA	615.0 / 570.0	4.07	99995.01	254.436513	1141.6	false
d3-MeFOSAA	573.0 / 419.0	3.62	18400.21	307.227320	102.1	false
d5-EtFOSAA	589.0 / 419.0	3.78	16351.10	250.063868	251.7	false
13C5-PFPeA	268.0 / 223.0	1.48	72654.67	247.696867	744.0	false
13C5-PFHxA	318.0 / 273.0	1.87	63134.84	246.212808	622.1	false
13C4-PFHpA	367.0 / 322.0	2.28	66285.64	227.214453	928.8	false
13C8-PFOA	421.0 / 376.0	2.70	77573.52	218.589880	452635.8	false
13C9-PFNA	472.0 / 427.0	3.09	93994.33	231.959824	113653.9	false
13C6-PFDA	519.0 / 474.0	3.45	88095.93	222.494042	731.4	false
13C7-PFUnA	570.0 / 525.0	3.78	82754.96	226.260594	1283.3	false
13C2-PFTeDA	715.0 / 670.0	4.54	81617.66	257.222966	1991.1	false
13C3-PFBS	302.0 / 99.0	1.54	29660.00	282.623804	815.0	false
13C3-PFHxS	402.0 / 99.0	2.31	24033.73	252.730102	656.4	false
13C8-PFOS	507.0 / 99.0	3.09	25557.23	237.900846	289.4	false
13C2-4:2FTS	329.0 / 81.0	1.82	6429.93	259.056902	62.2	false
13C2-6:2FTS	429.0 / 81.0	2.66	15475.19	291.135757	122.2	false
13C2-8:2FTS	529.0 / 81.0	3.44	18307.95	303.379204	129.0	false



<b>Sample Name</b>	KB73	<b>Injection Vial</b>	2
<b>Sample ID</b>	L1	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:46:52	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.90	PFHxA			
PFHxA_2	313.0 / 119.0	1.91	PFHxA	0.090	0.077	ü
PFHpA_1	363.0 / 319.0	2.32	PFHpA			
PFHpA_2	363.0 / 169.0	2.32	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.34	PFHxS			
PFHxS_2	399.0 / 99.0	2.34	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.73	PFOA			
PFOA_2	413.0 / 169.0	2.73	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.14	PFNA			
PFNA_2	463.0 / 219.0	3.14	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	3.13	PFOS			
PFOS_2	499.0 / 99.0	3.13	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.50	PFDA			
PFDA_2	513.0 / 219.0	3.49	PFDA	0.050	0.041	ü
PFUnA_1	563.0 / 519.0	3.83	PFUnA			
PFUnA_2	563.0 / 269.0	3.82	PFUnA	0.040	0.049	ü
PFDaA_1	613.0 / 569.0	4.11	PFDaA			
PFDaA_2	613.0 / 319.0	4.11	PFDaA	0.160	0.160	ü
PFTrDA_1	663.0 / 619.0	4.37	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.36	PFTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	4.59	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.58	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.65	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.65	NMeFOSAA	0.450	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.82	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.82	NEtFOSAA	0.050	0.062	ü

<b>Sample Name</b>	KB74	<b>Injection Vial</b>	3
<b>Sample ID</b>	L2	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:57:45	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.280	0.292	ü
PFHxA_1	313.0 / 269.0	1.90	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.31	PFHpA			
PFHpA_2	363.0 / 169.0	2.31	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.33	PFHxS			
PFHxS_2	399.0 / 99.0	2.33	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.73	PFOA			
PFOA_2	413.0 / 169.0	2.73	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.13	PFNA			
PFNA_2	463.0 / 219.0	3.12	PFNA	0.260	0.306	ü
PFOS_1	499.0 / 80.0	3.12	PFOS			
PFOS_2	499.0 / 99.0	3.12	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.49	PFDA			
PFDA_2	513.0 / 219.0	3.48	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.82	PFUnA			
PFUnA_2	563.0 / 269.0	3.81	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.10	PFDoA			
PFDoA_2	613.0 / 319.0	4.10	PFDoA	0.180	0.160	ü
PFTrDA_1	663.0 / 619.0	4.35	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.35	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.58	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.58	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.65	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.65	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.81	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.80	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB75	<b>Injection Vial</b>	4
<b>Sample ID</b>	L3	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:08:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.280	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.31	PFHpA			
PFHpA_2	363.0 / 169.0	2.31	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.33	PFHxS			
PFHxS_2	399.0 / 99.0	2.33	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.72	PFOA			
PFOA_2	413.0 / 169.0	2.72	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.12	PFNA			
PFNA_2	463.0 / 219.0	3.12	PFNA	0.300	0.306	ü
PFOS_1	499.0 / 80.0	3.12	PFOS			
PFOS_2	499.0 / 99.0	3.12	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.48	PFDA			
PFDA_2	513.0 / 219.0	3.48	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.81	PFUnA			
PFUnA_2	563.0 / 269.0	3.81	PFUnA	0.060	0.049	ü
PFDaA_1	613.0 / 569.0	4.09	PFDaA			
PFDaA_2	613.0 / 319.0	4.09	PFDaA	0.160	0.160	ü
PFTrDA_1	663.0 / 619.0	4.35	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.34	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.57	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.56	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.63	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.64	NMeFOSAA	0.530	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.80	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.80	NEtFOSAA	0.080	0.062	ü

<b>Sample Name</b>	KB76	<b>Injection Vial</b>	5
<b>Sample ID</b>	L4	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:19:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.30	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.11	PFOS			
PFOS_2	499.0 / 99.0	3.11	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.47	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.80	PFUnA			
PFUnA_2	563.0 / 269.0	3.80	PFUnA	0.050	0.049	ü
PFDaA_1	613.0 / 569.0	4.09	PFDaA			
PFDaA_2	613.0 / 319.0	4.09	PFDaA	0.150	0.160	ü
PFTrDA_1	663.0 / 619.0	4.34	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.34	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.56	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.56	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.63	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.63	NMeFOSAA	0.580	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.80	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.80	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB77	<b>Injection Vial</b>	6
<b>Sample ID</b>	L5	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:30:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.30	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	3.11	PFOS			
PFOS_2	499.0 / 99.0	3.11	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.47	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.80	PFUnA			
PFUnA_2	563.0 / 269.0	3.80	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.09	PFDoA			
PFDoA_2	613.0 / 319.0	4.09	PFDoA	0.170	0.160	ü
PFTrDA_1	663.0 / 619.0	4.33	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.33	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.56	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.55	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.63	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.63	NMeFOSAA	0.580	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.79	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.79	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB78	<b>Injection Vial</b>	7
<b>Sample ID</b>	L6	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:41:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.88	PFHxA			
PFHxA_2	313.0 / 119.0	1.88	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.30	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.10	PFOS			
PFOS_2	499.0 / 99.0	3.10	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.46	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.79	PFUnA			
PFUnA_2	563.0 / 269.0	3.79	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.08	PFDoA			
PFDoA_2	613.0 / 319.0	4.08	PFDoA	0.150	0.160	ü
PFTrDA_1	663.0 / 619.0	4.33	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.33	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.55	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.54	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.62	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.62	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.79	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.79	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB79	<b>Injection Vial</b>	8
<b>Sample ID</b>	L7	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:52:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0610_18-0611_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.88	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.29	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.10	PFOS			
PFOS_2	499.0 / 99.0	3.10	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.47	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.79	PFUnA			
PFUnA_2	563.0 / 269.0	3.79	PFUnA	0.050	0.049	ü
PFDaA_1	613.0 / 569.0	4.07	PFDaA			
PFDaA_2	613.0 / 319.0	4.07	PFDaA	0.160	0.160	ü
PFTrDA_1	663.0 / 619.0	4.32	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.32	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.54	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.54	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.62	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.62	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.78	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.78	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB73	<b>Injection Vial</b>	2
<b>Sample ID</b>	L1	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:46:52	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.90	PFHxA			
PFHxA_2	313.0 / 119.0	1.91	PFHxA	0.090	0.077	ü
PFHpA_1	363.0 / 319.0	2.32	PFHpA			
PFHpA_2	363.0 / 169.0	2.32	PFHpA	0.030	0.023	ü
PFHxS_1	399.0 / 80.0	2.34	PFHxS			
PFHxS_2	399.0 / 99.0	2.34	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.73	PFOA			
PFOA_2	413.0 / 169.0	2.73	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.14	PFNA			
PFNA_2	463.0 / 219.0	3.14	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	3.13	PFOS			
PFOS_2	499.0 / 99.0	3.13	PFOS	0.170	0.175	ü
PFDA_1	513.0 / 469.0	3.50	PFDA			
PFDA_2	513.0 / 219.0	3.49	PFDA	0.050	0.041	ü
PFUnA_1	563.0 / 519.0	3.83	PFUnA			
PFUnA_2	563.0 / 269.0	3.82	PFUnA	0.060	0.052	ü
PFDoA_1	613.0 / 569.0	4.11	PFDoA			
PFDoA_2	613.0 / 319.0	4.11	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.37	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.36	PFTTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	4.59	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.58	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.65	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.65	NMeFOSAA	0.450	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.82	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.82	NEtFOSAA	0.050	0.064	ü
PFBA	213.0 / 169.0	1.16				
PFPeA	263.0 / 219.0	1.50		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.74	PFHpS			
PFHpS_2	449.0 / 99.0	2.74	PFHpS	0.270	0.262	ü
PFDS_1	599.0 / 80.0	3.79	PFDS			
PFDS_2	599.0 / 99.0	3.79	PFDS	0.230	0.233	ü
4:2FTS_1	327.0 / 307.0	1.84	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.84	4:2FTS	0.300	0.263	ü



Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
6:2FTS_1	427.0 / 407.0	2.70	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.70	6:2FTS	0.250	0.233	ü
8:2FTS_1	527.0 / 507.0	3.47	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.47	8:2FTS	0.130	0.106	ü
PFPeS_1	349.0 / 99.0	1.94	PFPeS			
PFPeS_2	349.0 / 80.0	1.94	PFPeS	2.450	2.584	ü
PFNS_1	549.0 / 99.0	3.47	PFNS			
PFNS_2	549.0 / 80.0	3.47	PFNS	5.060	5.131	ü

<b>Sample Name</b>	KB74	<b>Injection Vial</b>	3
<b>Sample ID</b>	L2	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:57:45	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.280	0.292	ü
PFHxA_1	313.0 / 269.0	1.90	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.31	PFHpA			
PFHpA_2	363.0 / 169.0	2.31	PFHpA	0.020	0.023	ü
PFHxS_1	399.0 / 80.0	2.33	PFHxS			
PFHxS_2	399.0 / 99.0	2.33	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.73	PFOA			
PFOA_2	413.0 / 169.0	2.73	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.13	PFNA			
PFNA_2	463.0 / 219.0	3.12	PFNA	0.260	0.306	ü
PFOS_1	499.0 / 80.0	3.12	PFOS			
PFOS_2	499.0 / 99.0	3.12	PFOS	0.180	0.175	ü
PFDA_1	513.0 / 469.0	3.49	PFDA			
PFDA_2	513.0 / 219.0	3.48	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.82	PFUnA			
PFUnA_2	563.0 / 269.0	3.81	PFUnA	0.050	0.052	ü
PFDoA_1	613.0 / 569.0	4.10	PFDoA			
PFDoA_2	613.0 / 319.0	4.10	PFDoA	0.180	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.35	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.35	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.58	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.58	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.65	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.65	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.81	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.80	NEtFOSAA	0.060	0.064	ü
PFBA	213.0 / 169.0	1.16				
PFPeA	263.0 / 219.0	1.50		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.73	PFHpS			
PFHpS_2	449.0 / 99.0	2.73	PFHpS	0.280	0.262	ü
PFDS_1	599.0 / 80.0	3.78	PFDS			
PFDS_2	599.0 / 99.0	3.78	PFDS	0.240	0.233	ü
4:2FTS_1	327.0 / 307.0	1.84	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.84	4:2FTS	0.290	0.263	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
6:2FTS_1	427.0 / 407.0	2.69	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.69	6:2FTS	0.220	0.233	ü
8:2FTS_1	527.0 / 507.0	3.47	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.46	8:2FTS	0.120	0.106	ü
PFPeS_1	349.0 / 99.0	1.93	PFPeS			
PFPeS_2	349.0 / 80.0	1.93	PFPeS	2.750	2.584	ü
PFNS_1	549.0 / 99.0	3.46	PFNS			
PFNS_2	549.0 / 80.0	3.46	PFNS	5.110	5.131	ü

<b>Sample Name</b>	KB75	<b>Injection Vial</b>	4
<b>Sample ID</b>	L3	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:08:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.280	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.31	PFHpA			
PFHpA_2	363.0 / 169.0	2.31	PFHpA	0.030	0.023	ü
PFHxS_1	399.0 / 80.0	2.33	PFHxS			
PFHxS_2	399.0 / 99.0	2.33	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.72	PFOA			
PFOA_2	413.0 / 169.0	2.72	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.12	PFNA			
PFNA_2	463.0 / 219.0	3.12	PFNA	0.300	0.306	ü
PFOS_1	499.0 / 80.0	3.12	PFOS			
PFOS_2	499.0 / 99.0	3.12	PFOS	0.180	0.175	ü
PFDA_1	513.0 / 469.0	3.48	PFDA			
PFDA_2	513.0 / 219.0	3.48	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.81	PFUnA			
PFUnA_2	563.0 / 269.0	3.81	PFUnA	0.060	0.052	ü
PFDoA_1	613.0 / 569.0	4.09	PFDoA			
PFDoA_2	613.0 / 319.0	4.09	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.35	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.34	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.57	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.56	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.63	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.64	NMeFOSAA	0.530	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.80	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.80	NEtFOSAA	0.080	0.064	ü
PFBA	213.0 / 169.0	1.16				
PFPeA	263.0 / 219.0	1.49		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.72	PFHpS			
PFHpS_2	449.0 / 99.0	2.72	PFHpS	0.260	0.262	ü
PFDS_1	599.0 / 80.0	3.78	PFDS			
PFDS_2	599.0 / 99.0	3.78	PFDS	0.230	0.233	ü
4:2FTS_1	327.0 / 307.0	1.84	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.84	4:2FTS	0.220	0.263	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
6:2FTS_1	427.0 / 407.0	2.68	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.68	6:2FTS	0.200	0.233	ü
8:2FTS_1	527.0 / 507.0	3.46	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.45	8:2FTS	0.090	0.106	ü
PFPeS_1	349.0 / 99.0	1.93	PFPeS			
PFPeS_2	349.0 / 80.0	1.93	PFPeS	2.520	2.584	ü
PFNS_1	549.0 / 99.0	3.45	PFNS			
PFNS_2	549.0 / 80.0	3.45	PFNS	4.870	5.131	ü

<b>Sample Name</b>	KB76	<b>Injection Vial</b>	5
<b>Sample ID</b>	L4	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:19:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.30	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.023	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.11	PFOS			
PFOS_2	499.0 / 99.0	3.11	PFOS	0.170	0.175	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.47	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.80	PFUnA			
PFUnA_2	563.0 / 269.0	3.80	PFUnA	0.050	0.052	ü
PFDoA_1	613.0 / 569.0	4.09	PFDoA			
PFDoA_2	613.0 / 319.0	4.09	PFDoA	0.150	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.34	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.34	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.56	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.56	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.63	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.63	NMeFOSAA	0.580	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.80	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.80	NEtFOSAA	0.060	0.064	ü
PFBA	213.0 / 169.0	1.16				
PFPeA	263.0 / 219.0	1.49		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.72	PFHpS			
PFHpS_2	449.0 / 99.0	2.72	PFHpS	0.250	0.262	ü
PFDS_1	599.0 / 80.0	3.77	PFDS			
PFDS_2	599.0 / 99.0	3.77	PFDS	0.240	0.233	ü
4:2FTS_1	327.0 / 307.0	1.83	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.83	4:2FTS	0.230	0.263	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
6:2FTS_1	427.0 / 407.0	2.68	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.68	6:2FTS	0.230	0.233	ü
8:2FTS_1	527.0 / 507.0	3.45	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.45	8:2FTS	0.110	0.106	ü
PFPeS_1	349.0 / 99.0	1.92	PFPeS			
PFPeS_2	349.0 / 80.0	1.92	PFPeS	2.560	2.584	ü
PFNS_1	549.0 / 99.0	3.45	PFNS			
PFNS_2	549.0 / 80.0	3.45	PFNS	5.240	5.131	ü

<b>Sample Name</b>	KB77	<b>Injection Vial</b>	6
<b>Sample ID</b>	L5	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:30:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.30	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.023	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	3.11	PFOS			
PFOS_2	499.0 / 99.0	3.11	PFOS	0.170	0.175	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.47	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.80	PFUnA			
PFUnA_2	563.0 / 269.0	3.80	PFUnA	0.050	0.052	ü
PFDoA_1	613.0 / 569.0	4.09	PFDoA			
PFDoA_2	613.0 / 319.0	4.09	PFDoA	0.170	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.33	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.33	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.56	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.55	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.63	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.63	NMeFOSAA	0.580	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.79	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.79	NEtFOSAA	0.060	0.064	ü
PFBA	213.0 / 169.0	1.15				
PFPeA	263.0 / 219.0	1.49		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.72	PFHpS			
PFHpS_2	449.0 / 99.0	2.72	PFHpS	0.270	0.262	ü
PFDS_1	599.0 / 80.0	3.77	PFDS			
PFDS_2	599.0 / 99.0	3.77	PFDS	0.230	0.233	ü
4:2FTS_1	327.0 / 307.0	1.83	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.83	4:2FTS	0.260	0.263	ü



Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
6:2FTS_1	427.0 / 407.0	2.67	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.68	6:2FTS	0.230	0.233	ü
8:2FTS_1	527.0 / 507.0	3.45	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.45	8:2FTS	0.080	0.106	ü
PFPeS_1	349.0 / 99.0	1.92	PFPeS			
PFPeS_2	349.0 / 80.0	1.92	PFPeS	2.540	2.584	ü
PFNS_1	549.0 / 99.0	3.44	PFNS			
PFNS_2	549.0 / 80.0	3.44	PFNS	5.060	5.131	ü

<b>Sample Name</b>	KB78	<b>Injection Vial</b>	7
<b>Sample ID</b>	L6	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:41:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.88	PFHxA			
PFHxA_2	313.0 / 119.0	1.88	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.30	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.023	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.10	PFOS			
PFOS_2	499.0 / 99.0	3.10	PFOS	0.180	0.175	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.46	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.79	PFUnA			
PFUnA_2	563.0 / 269.0	3.79	PFUnA	0.050	0.052	ü
PFDoA_1	613.0 / 569.0	4.08	PFDoA			
PFDoA_2	613.0 / 319.0	4.08	PFDoA	0.150	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.33	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.33	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.55	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.54	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.62	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.62	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.79	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.79	NEtFOSAA	0.060	0.064	ü
PFBA	213.0 / 169.0	1.15				
PFPeA	263.0 / 219.0	1.49		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.72	PFHpS			
PFHpS_2	449.0 / 99.0	2.72	PFHpS	0.250	0.262	ü
PFDS_1	599.0 / 80.0	3.76	PFDS			
PFDS_2	599.0 / 99.0	3.76	PFDS	0.230	0.233	ü
4:2FTS_1	327.0 / 307.0	1.83	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.83	4:2FTS	0.260	0.263	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
6:2FTS_1	427.0 / 407.0	2.67	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.67	6:2FTS	0.250	0.233	ü
8:2FTS_1	527.0 / 507.0	3.44	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.44	8:2FTS	0.090	0.106	ü
PFPeS_1	349.0 / 99.0	1.92	PFPeS			
PFPeS_2	349.0 / 80.0	1.92	PFPeS	2.610	2.584	ü
PFNS_1	549.0 / 99.0	3.44	PFNS			
PFNS_2	549.0 / 80.0	3.44	PFNS	5.420	5.131	ü

<b>Sample Name</b>	KB79	<b>Injection Vial</b>	8
<b>Sample ID</b>	L7	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:52:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.88	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.29	PFHpA			
PFHpA_2	363.0 / 169.0	2.30	PFHpA	0.020	0.023	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.10	PFOS			
PFOS_2	499.0 / 99.0	3.10	PFOS	0.170	0.175	ü
PFDA_1	513.0 / 469.0	3.47	PFDA			
PFDA_2	513.0 / 219.0	3.47	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.79	PFUnA			
PFUnA_2	563.0 / 269.0	3.79	PFUnA	0.050	0.052	ü
PFDoA_1	613.0 / 569.0	4.07	PFDoA			
PFDoA_2	613.0 / 319.0	4.07	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.32	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.32	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.54	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.54	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.62	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.62	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.78	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.78	NEtFOSAA	0.060	0.064	ü
PFBA	213.0 / 169.0	1.15				
PFPeA	263.0 / 219.0	1.49		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.71	PFHpS			
PFHpS_2	449.0 / 99.0	2.71	PFHpS	0.250	0.262	ü
PFDS_1	599.0 / 80.0	3.76	PFDS			
PFDS_2	599.0 / 99.0	3.76	PFDS	0.230	0.233	ü
4:2FTS_1	327.0 / 307.0	1.83	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.83	4:2FTS	0.280	0.263	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
6:2FTS_1	427.0 / 407.0	2.67	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.67	6:2FTS	0.250	0.233	ü
8:2FTS_1	527.0 / 507.0	3.44	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.44	8:2FTS	0.100	0.106	ü
PFPeS_1	349.0 / 99.0	1.92	PFPeS			
PFPeS_2	349.0 / 80.0	1.92	PFPeS	2.660	2.584	ü
PFNS_1	549.0 / 99.0	3.44	PFNS			
PFNS_2	549.0 / 80.0	3.44	PFNS	5.160	5.131	ü

Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	26120.14	232.25
PFBS 2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	26120.14	232.25
PFHxA 1	313.0 / 269.0	1.90	13C5-PFHxA	318.0 / 273.0	61468.01	250.00
PFHxA 2	313.0 / 119.0	1.91	13C5-PFHxA	318.0 / 273.0	61468.01	250.00
PFHpA 1	363.0 / 319.0	2.32	13C4-PFHpA	367.0 / 322.0	69894.37	250.00
PFHpA 2	363.0 / 169.0	2.32	13C4-PFHpA	367.0 / 322.0	69894.37	250.00
PFHxS 1	399.0 / 80.0	2.34	13C3-PFHxS	402.0 / 99.0	24619.85	236.50
PFHxS 2	399.0 / 99.0	2.34	13C3-PFHxS	402.0 / 99.0	24619.85	236.50
PFOA 1	413.0 / 369.0	2.73	13C8-PFOA	421.0 / 376.0	82686.75	250.00
PFOA 2	413.0 / 169.0	2.73	13C8-PFOA	421.0 / 376.0	82686.75	250.00
PFNA 1	463.0 / 419.0	3.14	13C9-PFNA	472.0 / 427.0	91536.04	250.00
PFNA 2	463.0 / 219.0	3.14	13C9-PFNA	472.0 / 427.0	91536.04	250.00
PFOS 1	499.0 / 80.0	3.13	13C8-PFOS	507.0 / 99.0	29514.87	239.25
PFOS 2	499.0 / 99.0	3.13	13C8-PFOS	507.0 / 99.0	29514.87	239.25
PFDA 1	513.0 / 469.0	3.50	13C6-PFDA	519.0 / 474.0	97086.56	250.00
PFDA 2	513.0 / 219.0	3.49	13C6-PFDA	519.0 / 474.0	97086.56	250.00
PFUnA 1	563.0 / 519.0	3.83	13C7-PFUnA	570.0 / 525.0	90055.69	250.00
PFUnA 2	563.0 / 269.0	3.82	13C7-PFUnA	570.0 / 525.0	90055.69	250.00
PFDoA 1	613.0 / 569.0	4.11	13C2-PFDoA	615.0 / 570.0	91402.83	250.00
PFDoA 2	613.0 / 319.0	4.11	13C2-PFDoA	615.0 / 570.0	91402.83	250.00
PFTeDA 1	663.0 / 619.0	4.37	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
PFTeDA 2	663.0 / 169.0	4.36	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
PFTeDA 1	713.0 / 669.0	4.59	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
PFTeDA 2	713.0 / 169.0	4.58	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
NMeFOSAA 1	570.0 / 419.0	3.65	d3-MeFOSAA	573.0 / 419.0	16233.26	250.00
NMeFOSAA 2	570.0 / 512.0	3.65	d3-MeFOSAA	573.0 / 419.0	16233.26	250.00
NEtFOSAA 1	584.0 / 419.0	3.82	d5-EtFOSAA	589.0 / 419.0	19192.99	250.00
NEtFOSAA 2	584.0 / 483.0	3.82	d5-EtFOSAA	589.0 / 419.0	19192.99	250.00

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	29228.78	232.25
PFBS 2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	29228.78	232.25
PFHxA 1	313.0 / 269.0	1.90	13C5-PFHxA	318.0 / 273.0	67688.32	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	67688.32	250.00
PFHpA 1	363.0 / 319.0	2.31	13C4-PFHpA	367.0 / 322.0	76065.72	250.00
PFHpA 2	363.0 / 169.0	2.31	13C4-PFHpA	367.0 / 322.0	76065.72	250.00
PFHxS 1	399.0 / 80.0	2.33	13C3-PFHxS	402.0 / 99.0	29708.48	236.50
PFHxS 2	399.0 / 99.0	2.33	13C3-PFHxS	402.0 / 99.0	29708.48	236.50
PFOA 1	413.0 / 369.0	2.73	13C8-PFOA	421.0 / 376.0	96880.10	250.00
PFOA 2	413.0 / 169.0	2.73	13C8-PFOA	421.0 / 376.0	96880.10	250.00
PFNA 1	463.0 / 419.0	3.13	13C9-PFNA	472.0 / 427.0	109970.74	250.00
PFNA 2	463.0 / 219.0	3.12	13C9-PFNA	472.0 / 427.0	109970.74	250.00
PFOS 1	499.0 / 80.0	3.12	13C8-PFOS	507.0 / 99.0	33822.33	239.25
PFOS 2	499.0 / 99.0	3.12	13C8-PFOS	507.0 / 99.0	33822.33	239.25
PFDA 1	513.0 / 469.0	3.49	13C6-PFDA	519.0 / 474.0	103376.35	250.00
PFDA 2	513.0 / 219.0	3.48	13C6-PFDA	519.0 / 474.0	103376.35	250.00
PFUnA 1	563.0 / 519.0	3.82	13C7-PFUnA	570.0 / 525.0	99154.47	250.00
PFUnA 2	563.0 / 269.0	3.81	13C7-PFUnA	570.0 / 525.0	99154.47	250.00
PFDoA 1	613.0 / 569.0	4.10	13C2-PFDoA	615.0 / 570.0	107747.25	250.00
PFDoA 2	613.0 / 319.0	4.10	13C2-PFDoA	615.0 / 570.0	107747.25	250.00
PFTeDA 1	663.0 / 619.0	4.35	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
PFTeDA 2	663.0 / 169.0	4.35	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
PFTeDA 1	713.0 / 669.0	4.58	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
PFTeDA 2	713.0 / 169.0	4.58	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
NMeFOSAA 1	570.0 / 419.0	3.65	d3-MeFOSAA	573.0 / 419.0	17661.42	250.00
NMeFOSAA 2	570.0 / 512.0	3.65	d3-MeFOSAA	573.0 / 419.0	17661.42	250.00
NEtFOSAA 1	584.0 / 419.0	3.81	d5-EtFOSAA	589.0 / 419.0	22570.27	250.00
NEtFOSAA 2	584.0 / 483.0	3.80	d5-EtFOSAA	589.0 / 419.0	22570.27	250.00

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	26105.02	232.25
PFBS 2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	26105.02	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	59853.55	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	59853.55	250.00
PFHpA 1	363.0 / 319.0	2.31	13C4-PFHpA	367.0 / 322.0	72363.27	250.00
PFHpA 2	363.0 / 169.0	2.31	13C4-PFHpA	367.0 / 322.0	72363.27	250.00
PFHxS 1	399.0 / 80.0	2.33	13C3-PFHxS	402.0 / 99.0	26459.07	236.50
PFHxS 2	399.0 / 99.0	2.33	13C3-PFHxS	402.0 / 99.0	26459.07	236.50
PFOA 1	413.0 / 369.0	2.72	13C8-PFOA	421.0 / 376.0	92242.14	250.00
PFOA 2	413.0 / 169.0	2.72	13C8-PFOA	421.0 / 376.0	92242.14	250.00
PFNA 1	463.0 / 419.0	3.12	13C9-PFNA	472.0 / 427.0	106517.52	250.00
PFNA 2	463.0 / 219.0	3.12	13C9-PFNA	472.0 / 427.0	106517.52	250.00
PFOS 1	499.0 / 80.0	3.12	13C8-PFOS	507.0 / 99.0	27084.38	239.25
PFOS 2	499.0 / 99.0	3.12	13C8-PFOS	507.0 / 99.0	27084.38	239.25
PFDA 1	513.0 / 469.0	3.48	13C6-PFDA	519.0 / 474.0	99092.64	250.00
PFDA 2	513.0 / 219.0	3.48	13C6-PFDA	519.0 / 474.0	99092.64	250.00
PFUnA 1	563.0 / 519.0	3.81	13C7-PFUnA	570.0 / 525.0	101859.96	250.00
PFUnA 2	563.0 / 269.0	3.81	13C7-PFUnA	570.0 / 525.0	101859.96	250.00
PFDoA 1	613.0 / 569.0	4.09	13C2-PFDoA	615.0 / 570.0	95394.66	250.00
PFDoA 2	613.0 / 319.0	4.09	13C2-PFDoA	615.0 / 570.0	95394.66	250.00
PFTeDA 1	663.0 / 619.0	4.35	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
PFTeDA 2	663.0 / 169.0	4.34	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
PFTeDA 1	713.0 / 669.0	4.57	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
PFTeDA 2	713.0 / 169.0	4.56	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
NMeFOSAA 1	570.0 / 419.0	3.63	d3-MeFOSAA	573.0 / 419.0	16616.33	250.00
NMeFOSAA 2	570.0 / 512.0	3.64	d3-MeFOSAA	573.0 / 419.0	16616.33	250.00
NEtFOSAA 1	584.0 / 419.0	3.80	d5-EtFOSAA	589.0 / 419.0	16999.01	250.00
NEtFOSAA 2	584.0 / 483.0	3.80	d5-EtFOSAA	589.0 / 419.0	16999.01	250.00



Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	24473.16	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	24473.16	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	58835.13	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	58835.13	250.00
PFHpA 1	363.0 / 319.0	2.30	13C4-PFHpA	367.0 / 322.0	73044.35	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	73044.35	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	23463.21	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	23463.21	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	89256.01	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	89256.01	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	96659.60	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	96659.60	250.00
PFOS 1	499.0 / 80.0	3.11	13C8-PFOS	507.0 / 99.0	28834.11	239.25
PFOS 2	499.0 / 99.0	3.11	13C8-PFOS	507.0 / 99.0	28834.11	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	97605.58	250.00
PFDA 2	513.0 / 219.0	3.47	13C6-PFDA	519.0 / 474.0	97605.58	250.00
PFUnA 1	563.0 / 519.0	3.80	13C7-PFUnA	570.0 / 525.0	85263.94	250.00
PFUnA 2	563.0 / 269.0	3.80	13C7-PFUnA	570.0 / 525.0	85263.94	250.00
PFDoA 1	613.0 / 569.0	4.09	13C2-PFDoA	615.0 / 570.0	95903.63	250.00
PFDoA 2	613.0 / 319.0	4.09	13C2-PFDoA	615.0 / 570.0	95903.63	250.00
PFTTrDA 1	663.0 / 619.0	4.34	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
PFTTrDA 2	663.0 / 169.0	4.34	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
PFTeDA 1	713.0 / 669.0	4.56	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
PFTeDA 2	713.0 / 169.0	4.56	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
NMeFOSAA 1	570.0 / 419.0	3.63	d3-MeFOSAA	573.0 / 419.0	15280.98	250.00
NMeFOSAA 2	570.0 / 512.0	3.63	d3-MeFOSAA	573.0 / 419.0	15280.98	250.00
NEtFOSAA 1	584.0 / 419.0	3.80	d5-EtFOSAA	589.0 / 419.0	19201.47	250.00
NEtFOSAA 2	584.0 / 483.0	3.80	d5-EtFOSAA	589.0 / 419.0	19201.47	250.00

Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	26519.94	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	26519.94	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	61167.94	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	61167.94	250.00
PFHpA 1	363.0 / 319.0	2.30	13C4-PFHpA	367.0 / 322.0	69461.61	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	69461.61	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	22669.25	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	22669.25	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	84283.75	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	84283.75	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	93667.25	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	93667.25	250.00
PFOS 1	499.0 / 80.0	3.11	13C8-PFOS	507.0 / 99.0	28376.74	239.25
PFOS 2	499.0 / 99.0	3.11	13C8-PFOS	507.0 / 99.0	28376.74	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	97196.35	250.00
PFDA 2	513.0 / 219.0	3.47	13C6-PFDA	519.0 / 474.0	97196.35	250.00
PFUnA 1	563.0 / 519.0	3.80	13C7-PFUnA	570.0 / 525.0	81503.66	250.00
PFUnA 2	563.0 / 269.0	3.80	13C7-PFUnA	570.0 / 525.0	81503.66	250.00
PFDoA 1	613.0 / 569.0	4.09	13C2-PFDoA	615.0 / 570.0	87520.82	250.00
PFDoA 2	613.0 / 319.0	4.09	13C2-PFDoA	615.0 / 570.0	87520.82	250.00
PFTTrDA 1	663.0 / 619.0	4.33	13C2-PFTTeDA	715.0 / 670.0	71548.15	250.00
PFTTrDA 2	663.0 / 169.0	4.33	13C2-PFTTeDA	715.0 / 670.0	71548.15	250.00
PFTTeDA 1	713.0 / 669.0	4.56	13C2-PFTTeDA	715.0 / 670.0	71548.15	250.00
PFTTeDA 2	713.0 / 169.0	4.55	13C2-PFTTeDA	715.0 / 670.0	71548.15	250.00
NMeFOSAA 1	570.0 / 419.0	3.63	d3-MeFOSAA	573.0 / 419.0	16063.93	250.00
NMeFOSAA 2	570.0 / 512.0	3.63	d3-MeFOSAA	573.0 / 419.0	16063.93	250.00
NEtFOSAA 1	584.0 / 419.0	3.79	d5-EtFOSAA	589.0 / 419.0	16992.28	250.00
NEtFOSAA 2	584.0 / 483.0	3.79	d5-EtFOSAA	589.0 / 419.0	16992.28	250.00

Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	30399.13	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	30399.13	232.25
PFHxA 1	313.0 / 269.0	1.88	13C5-PFHxA	318.0 / 273.0	67298.42	250.00
PFHxA 2	313.0 / 119.0	1.88	13C5-PFHxA	318.0 / 273.0	67298.42	250.00
PFHpA 1	363.0 / 319.0	2.30	13C4-PFHpA	367.0 / 322.0	72755.48	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	72755.48	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	27186.76	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	27186.76	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	85622.31	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	85622.31	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	103069.19	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	103069.19	250.00
PFOS 1	499.0 / 80.0	3.10	13C8-PFOS	507.0 / 99.0	30401.17	239.25
PFOS 2	499.0 / 99.0	3.10	13C8-PFOS	507.0 / 99.0	30401.17	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	101281.21	250.00
PFDA 2	513.0 / 219.0	3.46	13C6-PFDA	519.0 / 474.0	101281.21	250.00
PFUnA 1	563.0 / 519.0	3.79	13C7-PFUnA	570.0 / 525.0	91776.59	250.00
PFUnA 2	563.0 / 269.0	3.79	13C7-PFUnA	570.0 / 525.0	91776.59	250.00
PFDoA 1	613.0 / 569.0	4.08	13C2-PFDoA	615.0 / 570.0	102072.61	250.00
PFDoA 2	613.0 / 319.0	4.08	13C2-PFDoA	615.0 / 570.0	102072.61	250.00
PFTTrDA 1	663.0 / 619.0	4.33	13C2-PFTTeDA	715.0 / 670.0	84788.29	250.00
PFTTrDA 2	663.0 / 169.0	4.33	13C2-PFTTeDA	715.0 / 670.0	84788.29	250.00
PFTTeDA 1	713.0 / 669.0	4.55	13C2-PFTTeDA	715.0 / 670.0	84788.29	250.00
PFTTeDA 2	713.0 / 169.0	4.54	13C2-PFTTeDA	715.0 / 670.0	84788.29	250.00
NMeFOSAA 1	570.0 / 419.0	3.62	d3-MeFOSAA	573.0 / 419.0	18223.77	250.00
NMeFOSAA 2	570.0 / 512.0	3.62	d3-MeFOSAA	573.0 / 419.0	18223.77	250.00
NEtFOSAA 1	584.0 / 419.0	3.79	d5-EtFOSAA	589.0 / 419.0	20489.99	250.00
NEtFOSAA 2	584.0 / 483.0	3.79	d5-EtFOSAA	589.0 / 419.0	20489.99	250.00

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	29660.00	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	29660.00	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	63134.84	250.00
PFHxA 2	313.0 / 119.0	1.88	13C5-PFHxA	318.0 / 273.0	63134.84	250.00
PFHpA 1	363.0 / 319.0	2.29	13C4-PFHpA	367.0 / 322.0	66285.64	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	66285.64	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	23705.87	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	23705.87	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	77573.52	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	77573.52	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	93994.33	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	93994.33	250.00
PFOS 1	499.0 / 80.0	3.10	13C8-PFOS	507.0 / 99.0	25276.93	239.25
PFOS 2	499.0 / 99.0	3.10	13C8-PFOS	507.0 / 99.0	25276.93	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	88095.93	250.00
PFDA 2	513.0 / 219.0	3.47	13C6-PFDA	519.0 / 474.0	88095.93	250.00
PFUnA 1	563.0 / 519.0	3.79	13C7-PFUnA	570.0 / 525.0	82754.96	250.00
PFUnA 2	563.0 / 269.0	3.79	13C7-PFUnA	570.0 / 525.0	82754.96	250.00
PFDoA 1	613.0 / 569.0	4.07	13C2-PFDoA	615.0 / 570.0	99995.01	250.00
PFDoA 2	613.0 / 319.0	4.07	13C2-PFDoA	615.0 / 570.0	99995.01	250.00
PFTeDA 1	663.0 / 619.0	4.32	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
PFTeDA 2	663.0 / 169.0	4.32	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
PFTeDA 1	713.0 / 669.0	4.54	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
PFTeDA 2	713.0 / 169.0	4.54	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
NMeFOSAA 1	570.0 / 419.0	3.62	d3-MeFOSAA	573.0 / 419.0	18782.71	250.00
NMeFOSAA 2	570.0 / 512.0	3.62	d3-MeFOSAA	573.0 / 419.0	18782.71	250.00
NEtFOSAA 1	584.0 / 419.0	3.78	d5-EtFOSAA	589.0 / 419.0	16682.63	250.00
NEtFOSAA 2	584.0 / 483.0	3.78	d5-EtFOSAA	589.0 / 419.0	16682.63	250.00

Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.10	13C2-PFDA	515.0 / 470.0	100139.46	250.00
d3-MeFOSAA	573.0 / 419.0	3.65	13C4-PFOS	503.0 / 99.0	29846.55	239.25
d5-EtFOSAA	589.0 / 419.0	3.81	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C5-PFHxA	318.0 / 273.0	1.89	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C4-PFHpA	367.0 / 322.0	2.30	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C8-PFOA	421.0 / 376.0	2.72	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C9-PFNA	472.0 / 427.0	3.12	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C6-PFDA	519.0 / 474.0	3.48	13C2-PFDA	515.0 / 470.0	100139.46	250.00
13C7-PFUnA	570.0 / 525.0	3.81	13C2-PFDA	515.0 / 470.0	100139.46	250.00
13C2-PFTeDA	715.0 / 670.0	4.58	13C2-PFDA	515.0 / 470.0	100139.46	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C3-PFHxS	402.0 / 99.0	2.33	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C8-PFOS	507.0 / 99.0	3.12	13C4-PFOS	503.0 / 99.0	29846.55	239.25

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.09	13C2-PFDA	515.0 / 470.0	103883.83	250.00
d3-MeFOSAA	573.0 / 419.0	3.64	13C4-PFOS	503.0 / 99.0	34856.85	239.25
d5-EtFOSAA	589.0 / 419.0	3.80	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C5-PFHxA	318.0 / 273.0	1.89	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C4-PFHpA	367.0 / 322.0	2.30	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C8-PFOA	421.0 / 376.0	2.72	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C9-PFNA	472.0 / 427.0	3.11	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C6-PFDA	519.0 / 474.0	3.48	13C2-PFDA	515.0 / 470.0	103883.83	250.00
13C7-PFUnA	570.0 / 525.0	3.80	13C2-PFDA	515.0 / 470.0	103883.83	250.00
13C2-PFTeDA	715.0 / 670.0	4.57	13C2-PFDA	515.0 / 470.0	103883.83	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C3-PFHxS	402.0 / 99.0	2.32	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C8-PFOS	507.0 / 99.0	3.11	13C4-PFOS	503.0 / 99.0	34856.85	239.25

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.08	13C2-PFDA	515.0 / 470.0	98052.33	250.00
d3-MeFOSAA	573.0 / 419.0	3.63	13C4-PFOS	503.0 / 99.0	30684.77	239.25
d5-EtFOSAA	589.0 / 419.0	3.79	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C8-PFOA	421.0 / 376.0	2.71	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C9-PFNA	472.0 / 427.0	3.10	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C6-PFDA	519.0 / 474.0	3.47	13C2-PFDA	515.0 / 470.0	98052.33	250.00
13C7-PFUnA	570.0 / 525.0	3.79	13C2-PFDA	515.0 / 470.0	98052.33	250.00
13C2-PFTeDA	715.0 / 670.0	4.56	13C2-PFDA	515.0 / 470.0	98052.33	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C3-PFHxS	402.0 / 99.0	2.32	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C8-PFOS	507.0 / 99.0	3.10	13C4-PFOS	503.0 / 99.0	30684.77	239.25

Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.08	13C2-PFDA	515.0 / 470.0	99978.99	250.00
d3-MeFOSAA	573.0 / 419.0	3.62	13C4-PFOS	503.0 / 99.0	30962.75	239.25
d5-EtFOSAA	589.0 / 419.0	3.79	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C9-PFNA	472.0 / 427.0	3.10	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C6-PFDA	519.0 / 474.0	3.46	13C2-PFDA	515.0 / 470.0	99978.99	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	99978.99	250.00
13C2-PFTeDA	715.0 / 670.0	4.55	13C2-PFDA	515.0 / 470.0	99978.99	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C3-PFHxS	402.0 / 99.0	2.32	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C8-PFOS	507.0 / 99.0	3.10	13C4-PFOS	503.0 / 99.0	30962.75	239.25



Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	90129.70	250.00
d3-MeFOSAA	573.0 / 419.0	3.62	13C4-PFOS	503.0 / 99.0	31518.26	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C9-PFNA	472.0 / 427.0	3.10	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C6-PFDA	519.0 / 474.0	3.46	13C2-PFDA	515.0 / 470.0	90129.70	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	90129.70	250.00
13C2-PFTeDA	715.0 / 670.0	4.55	13C2-PFDA	515.0 / 470.0	90129.70	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C8-PFOS	507.0 / 99.0	3.10	13C4-PFOS	503.0 / 99.0	31518.26	239.25

Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	104169.70	250.00
d3-MeFOSAA	573.0 / 419.0	3.61	13C4-PFOS	503.0 / 99.0	29589.19	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C5-PFHxA	318.0 / 273.0	1.87	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C4-PFHpA	367.0 / 322.0	2.28	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C9-PFNA	472.0 / 427.0	3.09	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C6-PFDA	519.0 / 474.0	3.45	13C2-PFDA	515.0 / 470.0	104169.70	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	104169.70	250.00
13C2-PFTeDA	715.0 / 670.0	4.54	13C2-PFDA	515.0 / 470.0	104169.70	250.00
13C3-PFBS	302.0 / 99.0	1.54	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C8-PFOS	507.0 / 99.0	3.09	13C4-PFOS	503.0 / 99.0	29589.19	239.25

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0610_18-0611_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	100765.46	250.00
d3-MeFOSAA	573.0 / 419.0	3.62	13C4-PFOS	503.0 / 99.0	26984.04	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C5-PFHxA	318.0 / 273.0	1.87	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C4-PFHpA	367.0 / 322.0	2.28	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C9-PFNA	472.0 / 427.0	3.09	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C6-PFDA	519.0 / 474.0	3.45	13C2-PFDA	515.0 / 470.0	100765.46	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	100765.46	250.00
13C2-PFTeDA	715.0 / 670.0	4.54	13C2-PFDA	515.0 / 470.0	100765.46	250.00
13C3-PFBS	302.0 / 99.0	1.54	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C8-PFOS	507.0 / 99.0	3.09	13C4-PFOS	503.0 / 99.0	26984.04	239.25

Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	26120.14	232.25
PFBS 2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	26120.14	232.25
PFHxA 1	313.0 / 269.0	1.90	13C5-PFHxA	318.0 / 273.0	61468.01	250.00
PFHxA 2	313.0 / 119.0	1.91	13C5-PFHxA	318.0 / 273.0	61468.01	250.00
PFHpA 1	363.0 / 319.0	2.32	13C4-PFHpA	367.0 / 322.0	69894.37	250.00
PFHpA 2	363.0 / 169.0	2.32	13C4-PFHpA	367.0 / 322.0	69894.37	250.00
PFHxS 1	399.0 / 80.0	2.34	13C3-PFHxS	402.0 / 99.0	24619.85	236.50
PFHxS 2	399.0 / 99.0	2.34	13C3-PFHxS	402.0 / 99.0	24619.85	236.50
PFOA 1	413.0 / 369.0	2.73	13C8-PFOA	421.0 / 376.0	82686.75	250.00
PFOA 2	413.0 / 169.0	2.73	13C8-PFOA	421.0 / 376.0	82686.75	250.00
PFNA 1	463.0 / 419.0	3.14	13C9-PFNA	472.0 / 427.0	91536.04	250.00
PFNA 2	463.0 / 219.0	3.14	13C9-PFNA	472.0 / 427.0	91536.04	250.00
PFOS 1	499.0 / 80.0	3.13	13C8-PFOS	507.0 / 99.0	29514.87	239.25
PFOS 2	499.0 / 99.0	3.13	13C8-PFOS	507.0 / 99.0	29514.87	239.25
PFDA 1	513.0 / 469.0	3.50	13C6-PFDA	519.0 / 474.0	97086.56	250.00
PFDA 2	513.0 / 219.0	3.49	13C6-PFDA	519.0 / 474.0	97086.56	250.00
PFUnA 1	563.0 / 519.0	3.83	13C7-PFUnA	570.0 / 525.0	90055.69	250.00
PFUnA 2	563.0 / 269.0	3.82	13C7-PFUnA	570.0 / 525.0	90055.69	250.00
PFDoA 1	613.0 / 569.0	4.11	13C2-PFDoA	615.0 / 570.0	91402.83	250.00
PFDoA 2	613.0 / 319.0	4.11	13C2-PFDoA	615.0 / 570.0	91402.83	250.00
PFTrDA 1	663.0 / 619.0	4.37	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
PFTrDA 2	663.0 / 169.0	4.36	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
PFTeDA 1	713.0 / 669.0	4.59	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
PFTeDA 2	713.0 / 169.0	4.58	13C2-PFTeDA	715.0 / 670.0	76389.03	250.00
NMeFOSAA 1	570.0 / 419.0	3.65	d3-MeFOSAA	573.0 / 419.0	16233.26	250.00
NMeFOSAA 2	570.0 / 512.0	3.65	d3-MeFOSAA	573.0 / 419.0	16233.26	250.00
NEtFOSAA 1	584.0 / 419.0	3.82	d5-EtFOSAA	589.0 / 419.0	19192.99	250.00
NEtFOSAA 2	584.0 / 483.0	3.82	d5-EtFOSAA	589.0 / 419.0	19192.99	250.00
PFBA	213.0 / 169.0	1.16	13C4-PFBA	217.0 / 172.0	82548.84	250.00
PFPeA	263.0 / 219.0	1.50	13C5-PFPeA	268.0 / 223.0	75030.47	250.00
PFHpS 1	449.0 / 80.0	2.74	13C8-PFOA	421.0 / 376.0	82686.75	250.00
PFHpS 2	449.0 / 99.0	2.74	13C8-PFOA	421.0 / 376.0	82686.75	250.00
PFDS 1	599.0 / 80.0	3.79	13C7-PFUnA	570.0 / 525.0	90055.69	250.00
PFDS 2	599.0 / 99.0	3.79	13C7-PFUnA	570.0 / 525.0	90055.69	250.00
4:2FTS 1	327.0 / 307.0	1.84	13C2-4:2FTS	329.0 / 81.0	6260.38	233.75
4:2FTS 2	327.0 / 80.0	1.84	13C2-4:2FTS	329.0 / 81.0	6260.38	233.75
6:2FTS 1	427.0 / 407.0	2.70	13C2-6:2FTS	429.0 / 81.0	13367.24	237.25
6:2FTS 2	427.0 / 81.0	2.70	13C2-6:2FTS	429.0 / 81.0	13367.24	237.25
8:2FTS 1	527.0 / 507.0	3.47	13C2-8:2 FTS	529.0 / 81.0	15253.49	239.50
8:2FTS 2	527.0 / 487.0	3.47	13C2-8:2 FTS	529.0 / 81.0	15253.49	239.50
PFPeS 1	349.0 / 99.0	1.94	13C5-PFHxA	318.0 / 273.0	61468.01	250.00
PFPeS 2	349.0 / 80.0	1.94	13C5-PFHxA	318.0 / 273.0	61468.01	250.00
PFNS 1	549.0 / 99.0	3.47	13C6-PFDA	519.0 / 474.0	97086.56	250.00
PFNS 2	549.0 / 80.0	3.47	13C6-PFDA	519.0 / 474.0	97086.56	250.00

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	29228.78	232.25
PFBS 2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	29228.78	232.25
PFHxA 1	313.0 / 269.0	1.90	13C5-PFHxA	318.0 / 273.0	67688.32	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	67688.32	250.00
PFHpA 1	363.0 / 319.0	2.31	13C4-PFHpA	367.0 / 322.0	76065.72	250.00
PFHpA 2	363.0 / 169.0	2.31	13C4-PFHpA	367.0 / 322.0	76065.72	250.00
PFHxS 1	399.0 / 80.0	2.33	13C3-PFHxS	402.0 / 99.0	29708.48	236.50
PFHxS 2	399.0 / 99.0	2.33	13C3-PFHxS	402.0 / 99.0	29708.48	236.50
PFOA 1	413.0 / 369.0	2.73	13C8-PFOA	421.0 / 376.0	96880.10	250.00
PFOA 2	413.0 / 169.0	2.73	13C8-PFOA	421.0 / 376.0	96880.10	250.00
PFNA 1	463.0 / 419.0	3.13	13C9-PFNA	472.0 / 427.0	109970.74	250.00
PFNA 2	463.0 / 219.0	3.12	13C9-PFNA	472.0 / 427.0	109970.74	250.00
PFOS 1	499.0 / 80.0	3.12	13C8-PFOS	507.0 / 99.0	33822.33	239.25
PFOS 2	499.0 / 99.0	3.12	13C8-PFOS	507.0 / 99.0	33822.33	239.25
PFDA 1	513.0 / 469.0	3.49	13C6-PFDA	519.0 / 474.0	103376.35	250.00
PFDA 2	513.0 / 219.0	3.48	13C6-PFDA	519.0 / 474.0	103376.35	250.00
PFUnA 1	563.0 / 519.0	3.82	13C7-PFUnA	570.0 / 525.0	99154.47	250.00
PFUnA 2	563.0 / 269.0	3.81	13C7-PFUnA	570.0 / 525.0	99154.47	250.00
PFDoA 1	613.0 / 569.0	4.10	13C2-PFDoA	615.0 / 570.0	107747.25	250.00
PFDoA 2	613.0 / 319.0	4.10	13C2-PFDoA	615.0 / 570.0	107747.25	250.00
PFTrDA 1	663.0 / 619.0	4.35	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
PFTrDA 2	663.0 / 169.0	4.35	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
PFTeDA 1	713.0 / 669.0	4.58	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
PFTeDA 2	713.0 / 169.0	4.58	13C2-PFTeDA	715.0 / 670.0	86008.02	250.00
NMeFOSAA 1	570.0 / 419.0	3.65	d3-MeFOSAA	573.0 / 419.0	17661.42	250.00
NMeFOSAA 2	570.0 / 512.0	3.65	d3-MeFOSAA	573.0 / 419.0	17661.42	250.00
NEtFOSAA 1	584.0 / 419.0	3.81	d5-EtFOSAA	589.0 / 419.0	22570.27	250.00
NEtFOSAA 2	584.0 / 483.0	3.80	d5-EtFOSAA	589.0 / 419.0	22570.27	250.00
PFBA	213.0 / 169.0	1.16	13C4-PFBA	217.0 / 172.0	91782.84	250.00
PFPeA	263.0 / 219.0	1.50	13C5-PFPeA	268.0 / 223.0	84049.44	250.00
PFHpS 1	449.0 / 80.0	2.73	13C8-PFOA	421.0 / 376.0	96880.10	250.00
PFHpS 2	449.0 / 99.0	2.73	13C8-PFOA	421.0 / 376.0	96880.10	250.00
PFDS 1	599.0 / 80.0	3.78	13C7-PFUnA	570.0 / 525.0	99154.47	250.00
PFDS 2	599.0 / 99.0	3.78	13C7-PFUnA	570.0 / 525.0	99154.47	250.00
4:2FTS 1	327.0 / 307.0	1.84	13C2-4:2FTS	329.0 / 81.0	6911.28	233.75
4:2FTS 2	327.0 / 80.0	1.84	13C2-4:2FTS	329.0 / 81.0	6911.28	233.75
6:2FTS 1	427.0 / 407.0	2.69	13C2-6:2FTS	429.0 / 81.0	15598.38	237.25
6:2FTS 2	427.0 / 81.0	2.69	13C2-6:2FTS	429.0 / 81.0	15598.38	237.25
8:2FTS 1	527.0 / 507.0	3.47	13C2-8:2 FTS	529.0 / 81.0	16611.67	239.50
8:2FTS 2	527.0 / 487.0	3.46	13C2-8:2 FTS	529.0 / 81.0	16611.67	239.50
PFPeS 1	349.0 / 99.0	1.93	13C5-PFHxA	318.0 / 273.0	67688.32	250.00
PFPeS 2	349.0 / 80.0	1.93	13C5-PFHxA	318.0 / 273.0	67688.32	250.00
PFNS 1	549.0 / 99.0	3.46	13C6-PFDA	519.0 / 474.0	103376.35	250.00
PFNS 2	549.0 / 80.0	3.46	13C6-PFDA	519.0 / 474.0	103376.35	250.00

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	26105.02	232.25
PFBS 2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	26105.02	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	59853.55	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	59853.55	250.00
PFHpA 1	363.0 / 319.0	2.31	13C4-PFHpA	367.0 / 322.0	72363.27	250.00
PFHpA 2	363.0 / 169.0	2.31	13C4-PFHpA	367.0 / 322.0	72363.27	250.00
PFHxS 1	399.0 / 80.0	2.33	13C3-PFHxS	402.0 / 99.0	26459.07	236.50
PFHxS 2	399.0 / 99.0	2.33	13C3-PFHxS	402.0 / 99.0	26459.07	236.50
PFOA 1	413.0 / 369.0	2.72	13C8-PFOA	421.0 / 376.0	92242.14	250.00
PFOA 2	413.0 / 169.0	2.72	13C8-PFOA	421.0 / 376.0	92242.14	250.00
PFNA 1	463.0 / 419.0	3.12	13C9-PFNA	472.0 / 427.0	106517.52	250.00
PFNA 2	463.0 / 219.0	3.12	13C9-PFNA	472.0 / 427.0	106517.52	250.00
PFOS 1	499.0 / 80.0	3.12	13C8-PFOS	507.0 / 99.0	27084.38	239.25
PFOS 2	499.0 / 99.0	3.12	13C8-PFOS	507.0 / 99.0	27084.38	239.25
PFDA 1	513.0 / 469.0	3.48	13C6-PFDA	519.0 / 474.0	99092.64	250.00
PFDA 2	513.0 / 219.0	3.48	13C6-PFDA	519.0 / 474.0	99092.64	250.00
PFUnA 1	563.0 / 519.0	3.81	13C7-PFUnA	570.0 / 525.0	101859.96	250.00
PFUnA 2	563.0 / 269.0	3.81	13C7-PFUnA	570.0 / 525.0	101859.96	250.00
PFDoA 1	613.0 / 569.0	4.09	13C2-PFDoA	615.0 / 570.0	95394.66	250.00
PFDoA 2	613.0 / 319.0	4.09	13C2-PFDoA	615.0 / 570.0	95394.66	250.00
PFTrDA 1	663.0 / 619.0	4.35	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
PFTrDA 2	663.0 / 169.0	4.34	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
PFTeDA 1	713.0 / 669.0	4.57	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
PFTeDA 2	713.0 / 169.0	4.56	13C2-PFTeDA	715.0 / 670.0	75947.40	250.00
NMeFOSAA 1	570.0 / 419.0	3.63	d3-MeFOSAA	573.0 / 419.0	16616.33	250.00
NMeFOSAA 2	570.0 / 512.0	3.64	d3-MeFOSAA	573.0 / 419.0	16616.33	250.00
NEtFOSAA 1	584.0 / 419.0	3.80	d5-EtFOSAA	589.0 / 419.0	16434.77	250.00
NEtFOSAA 2	584.0 / 483.0	3.80	d5-EtFOSAA	589.0 / 419.0	16434.77	250.00
PFBA	213.0 / 169.0	1.16	13C4-PFBA	217.0 / 172.0	84390.82	250.00
PFPeA	263.0 / 219.0	1.49	13C5-PFPeA	268.0 / 223.0	74758.18	250.00
PFHpS 1	449.0 / 80.0	2.72	13C8-PFOA	421.0 / 376.0	92242.14	250.00
PFHpS 2	449.0 / 99.0	2.72	13C8-PFOA	421.0 / 376.0	92242.14	250.00
PFDS 1	599.0 / 80.0	3.78	13C7-PFUnA	570.0 / 525.0	101859.96	250.00
PFDS 2	599.0 / 99.0	3.78	13C7-PFUnA	570.0 / 525.0	101859.96	250.00
4:2FTS 1	327.0 / 307.0	1.84	13C2-4:2FTS	329.0 / 81.0	6091.14	233.75
4:2FTS 2	327.0 / 80.0	1.84	13C2-4:2FTS	329.0 / 81.0	6091.14	233.75
6:2FTS 1	427.0 / 407.0	2.68	13C2-6:2FTS	429.0 / 81.0	13662.68	237.25
6:2FTS 2	427.0 / 81.0	2.68	13C2-6:2FTS	429.0 / 81.0	13662.68	237.25
8:2FTS 1	527.0 / 507.0	3.46	13C2-8:2 FTS	529.0 / 81.0	14718.46	239.50
8:2FTS 2	527.0 / 487.0	3.45	13C2-8:2 FTS	529.0 / 81.0	14718.46	239.50
PFPeS 1	349.0 / 99.0	1.93	13C5-PFHxA	318.0 / 273.0	59853.55	250.00
PFPeS 2	349.0 / 80.0	1.93	13C5-PFHxA	318.0 / 273.0	59853.55	250.00
PFNS 1	549.0 / 99.0	3.45	13C6-PFDA	519.0 / 474.0	99092.64	250.00
PFNS 2	549.0 / 80.0	3.45	13C6-PFDA	519.0 / 474.0	99092.64	250.00

Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	24473.16	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	24473.16	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	58835.13	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	58835.13	250.00
PFHpA 1	363.0 / 319.0	2.30	13C4-PFHpA	367.0 / 322.0	73044.35	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	73044.35	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	23463.21	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	23463.21	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	89256.01	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	89256.01	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	96659.60	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	96659.60	250.00
PFOS 1	499.0 / 80.0	3.11	13C8-PFOS	507.0 / 99.0	28834.11	239.25
PFOS 2	499.0 / 99.0	3.11	13C8-PFOS	507.0 / 99.0	28834.11	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	97605.58	250.00
PFDA 2	513.0 / 219.0	3.47	13C6-PFDA	519.0 / 474.0	97605.58	250.00
PFUnA 1	563.0 / 519.0	3.80	13C7-PFUnA	570.0 / 525.0	85263.94	250.00
PFUnA 2	563.0 / 269.0	3.80	13C7-PFUnA	570.0 / 525.0	85263.94	250.00
PFDoA 1	613.0 / 569.0	4.09	13C2-PFDoA	615.0 / 570.0	95903.63	250.00
PFDoA 2	613.0 / 319.0	4.09	13C2-PFDoA	615.0 / 570.0	95903.63	250.00
PFTrDA 1	663.0 / 619.0	4.34	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
PFTrDA 2	663.0 / 169.0	4.34	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
PFTeDA 1	713.0 / 669.0	4.56	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
PFTeDA 2	713.0 / 169.0	4.56	13C2-PFTeDA	715.0 / 670.0	72740.35	250.00
NMeFOSAA 1	570.0 / 419.0	3.63	d3-MeFOSAA	573.0 / 419.0	15280.98	250.00
NMeFOSAA 2	570.0 / 512.0	3.63	d3-MeFOSAA	573.0 / 419.0	15280.98	250.00
NEtFOSAA 1	584.0 / 419.0	3.80	d5-EtFOSAA	589.0 / 419.0	19201.47	250.00
NEtFOSAA 2	584.0 / 483.0	3.80	d5-EtFOSAA	589.0 / 419.0	19201.47	250.00
PFBA	213.0 / 169.0	1.16	13C4-PFBA	217.0 / 172.0	82052.62	250.00
PFPeA	263.0 / 219.0	1.49	13C5-PFPeA	268.0 / 223.0	73519.91	250.00
PFHpS 1	449.0 / 80.0	2.72	13C8-PFOA	421.0 / 376.0	89256.01	250.00
PFHpS 2	449.0 / 99.0	2.72	13C8-PFOA	421.0 / 376.0	89256.01	250.00
PFDS 1	599.0 / 80.0	3.77	13C7-PFUnA	570.0 / 525.0	85263.94	250.00
PFDS 2	599.0 / 99.0	3.77	13C7-PFUnA	570.0 / 525.0	85263.94	250.00
4:2FTS 1	327.0 / 307.0	1.83	13C2-4:2FTS	329.0 / 81.0	7010.14	233.75
4:2FTS 2	327.0 / 80.0	1.83	13C2-4:2FTS	329.0 / 81.0	7010.14	233.75
6:2FTS 1	427.0 / 407.0	2.68	13C2-6:2FTS	429.0 / 81.0	13705.69	237.25
6:2FTS 2	427.0 / 81.0	2.68	13C2-6:2FTS	429.0 / 81.0	13705.69	237.25
8:2FTS 1	527.0 / 507.0	3.45	13C2-8:2 FTS	529.0 / 81.0	13944.85	239.50
8:2FTS 2	527.0 / 487.0	3.45	13C2-8:2 FTS	529.0 / 81.0	13944.85	239.50
PFPeS 1	349.0 / 99.0	1.92	13C5-PFHxA	318.0 / 273.0	58835.13	250.00
PFPeS 2	349.0 / 80.0	1.92	13C5-PFHxA	318.0 / 273.0	58835.13	250.00
PFNS 1	549.0 / 99.0	3.45	13C6-PFDA	519.0 / 474.0	97605.58	250.00
PFNS 2	549.0 / 80.0	3.45	13C6-PFDA	519.0 / 474.0	97605.58	250.00

Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	26519.94	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	26519.94	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	61167.94	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	61167.94	250.00
PFHpA 1	363.0 / 319.0	2.30	13C4-PFHpA	367.0 / 322.0	69461.61	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	69461.61	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	22669.25	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	22669.25	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	84283.75	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	84283.75	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	93667.25	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	93667.25	250.00
PFOS 1	499.0 / 80.0	3.11	13C8-PFOS	507.0 / 99.0	28376.74	239.25
PFOS 2	499.0 / 99.0	3.11	13C8-PFOS	507.0 / 99.0	28376.74	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	97196.35	250.00
PFDA 2	513.0 / 219.0	3.47	13C6-PFDA	519.0 / 474.0	97196.35	250.00
PFUnA 1	563.0 / 519.0	3.80	13C7-PFUnA	570.0 / 525.0	81503.66	250.00
PFUnA 2	563.0 / 269.0	3.80	13C7-PFUnA	570.0 / 525.0	81503.66	250.00
PFDoA 1	613.0 / 569.0	4.09	13C2-PFDoA	615.0 / 570.0	87520.82	250.00
PFDoA 2	613.0 / 319.0	4.09	13C2-PFDoA	615.0 / 570.0	87520.82	250.00
PFTrDA 1	663.0 / 619.0	4.33	13C2-PFTeDA	715.0 / 670.0	71548.15	250.00
PFTrDA 2	663.0 / 169.0	4.33	13C2-PFTeDA	715.0 / 670.0	71548.15	250.00
PFTeDA 1	713.0 / 669.0	4.56	13C2-PFTeDA	715.0 / 670.0	71548.15	250.00
PFTeDA 2	713.0 / 169.0	4.55	13C2-PFTeDA	715.0 / 670.0	71548.15	250.00
NMeFOSAA 1	570.0 / 419.0	3.63	d3-MeFOSAA	573.0 / 419.0	16063.93	250.00
NMeFOSAA 2	570.0 / 512.0	3.63	d3-MeFOSAA	573.0 / 419.0	16063.93	250.00
NEtFOSAA 1	584.0 / 419.0	3.79	d5-EtFOSAA	589.0 / 419.0	16992.28	250.00
NEtFOSAA 2	584.0 / 483.0	3.79	d5-EtFOSAA	589.0 / 419.0	16992.28	250.00
PFBA	213.0 / 169.0	1.15	13C4-PFBA	217.0 / 172.0	82198.97	250.00
PFPeA	263.0 / 219.0	1.49	13C5-PFPeA	268.0 / 223.0	70268.14	250.00
PFHpS 1	449.0 / 80.0	2.72	13C8-PFOA	421.0 / 376.0	84283.75	250.00
PFHpS 2	449.0 / 99.0	2.72	13C8-PFOA	421.0 / 376.0	84283.75	250.00
PFDS 1	599.0 / 80.0	3.77	13C7-PFUnA	570.0 / 525.0	81503.66	250.00
PFDS 2	599.0 / 99.0	3.77	13C7-PFUnA	570.0 / 525.0	81503.66	250.00
4:2FTS 1	327.0 / 307.0	1.83	13C2-4:2FTS	329.0 / 81.0	6182.84	233.75
4:2FTS 2	327.0 / 80.0	1.83	13C2-4:2FTS	329.0 / 81.0	6182.84	233.75
6:2FTS 1	427.0 / 407.0	2.67	13C2-6:2FTS	429.0 / 81.0	11825.19	237.25
6:2FTS 2	427.0 / 81.0	2.68	13C2-6:2FTS	429.0 / 81.0	11825.19	237.25
8:2FTS 1	527.0 / 507.0	3.45	13C2-8:2 FTS	529.0 / 81.0	14809.67	239.50
8:2FTS 2	527.0 / 487.0	3.45	13C2-8:2 FTS	529.0 / 81.0	14809.67	239.50
PFPeS 1	349.0 / 99.0	1.92	13C5-PFHxA	318.0 / 273.0	61167.94	250.00
PFPeS 2	349.0 / 80.0	1.92	13C5-PFHxA	318.0 / 273.0	61167.94	250.00
PFNS 1	549.0 / 99.0	3.44	13C6-PFDA	519.0 / 474.0	97196.35	250.00
PFNS 2	549.0 / 80.0	3.44	13C6-PFDA	519.0 / 474.0	97196.35	250.00



Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	30399.13	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	30399.13	232.25
PFHxA 1	313.0 / 269.0	1.88	13C5-PFHxA	318.0 / 273.0	67298.42	250.00
PFHxA 2	313.0 / 119.0	1.88	13C5-PFHxA	318.0 / 273.0	67298.42	250.00
PFHpA 1	363.0 / 319.0	2.30	13C4-PFHpA	367.0 / 322.0	72755.48	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	72755.48	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	27186.76	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	27186.76	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	85622.31	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	85622.31	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	103069.19	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	103069.19	250.00
PFOS 1	499.0 / 80.0	3.10	13C8-PFOS	507.0 / 99.0	30401.17	239.25
PFOS 2	499.0 / 99.0	3.10	13C8-PFOS	507.0 / 99.0	30401.17	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	101281.21	250.00
PFDA 2	513.0 / 219.0	3.46	13C6-PFDA	519.0 / 474.0	101281.21	250.00
PFUnA 1	563.0 / 519.0	3.79	13C7-PFUnA	570.0 / 525.0	91776.59	250.00
PFUnA 2	563.0 / 269.0	3.79	13C7-PFUnA	570.0 / 525.0	91776.59	250.00
PFDoA 1	613.0 / 569.0	4.08	13C2-PFDoA	615.0 / 570.0	102072.61	250.00
PFDoA 2	613.0 / 319.0	4.08	13C2-PFDoA	615.0 / 570.0	102072.61	250.00
PFTrDA 1	663.0 / 619.0	4.33	13C2-PFTeDA	715.0 / 670.0	84788.29	250.00
PFTrDA 2	663.0 / 169.0	4.33	13C2-PFTeDA	715.0 / 670.0	84788.29	250.00
PFTeDA 1	713.0 / 669.0	4.55	13C2-PFTeDA	715.0 / 670.0	84788.29	250.00
PFTeDA 2	713.0 / 169.0	4.54	13C2-PFTeDA	715.0 / 670.0	84788.29	250.00
NMeFOSAA 1	570.0 / 419.0	3.62	d3-MeFOSAA	573.0 / 419.0	18223.77	250.00
NMeFOSAA 2	570.0 / 512.0	3.62	d3-MeFOSAA	573.0 / 419.0	18223.77	250.00
NEtFOSAA 1	584.0 / 419.0	3.79	d5-EtFOSAA	589.0 / 419.0	20489.99	250.00
NEtFOSAA 2	584.0 / 483.0	3.79	d5-EtFOSAA	589.0 / 419.0	20489.99	250.00
PFBA	213.0 / 169.0	1.15	13C4-PFBA	217.0 / 172.0	87599.94	250.00
PFPeA	263.0 / 219.0	1.49	13C5-PFPeA	268.0 / 223.0	78292.64	250.00
PFHpS 1	449.0 / 80.0	2.72	13C8-PFOA	421.0 / 376.0	85622.31	250.00
PFHpS 2	449.0 / 99.0	2.72	13C8-PFOA	421.0 / 376.0	85622.31	250.00
PFDS 1	599.0 / 80.0	3.76	13C7-PFUnA	570.0 / 525.0	91776.59	250.00
PFDS 2	599.0 / 99.0	3.76	13C7-PFUnA	570.0 / 525.0	91776.59	250.00
4:2FTS 1	327.0 / 307.0	1.83	13C2-4:2FTS	329.0 / 81.0	7032.33	233.75
4:2FTS 2	327.0 / 80.0	1.83	13C2-4:2FTS	329.0 / 81.0	7032.33	233.75
6:2FTS 1	427.0 / 407.0	2.67	13C2-6:2FTS	429.0 / 81.0	15962.68	237.25
6:2FTS 2	427.0 / 81.0	2.67	13C2-6:2FTS	429.0 / 81.0	15962.68	237.25
8:2FTS 1	527.0 / 507.0	3.44	13C2-8:2 FTS	529.0 / 81.0	17524.14	239.50
8:2FTS 2	527.0 / 487.0	3.44	13C2-8:2 FTS	529.0 / 81.0	17524.14	239.50
PFPeS 1	349.0 / 99.0	1.92	13C5-PFHxA	318.0 / 273.0	67298.42	250.00
PFPeS 2	349.0 / 80.0	1.92	13C5-PFHxA	318.0 / 273.0	67298.42	250.00
PFNS 1	549.0 / 99.0	3.44	13C6-PFDA	519.0 / 474.0	101281.21	250.00
PFNS 2	549.0 / 80.0	3.44	13C6-PFDA	519.0 / 474.0	101281.21	250.00

Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	29660.00	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	29660.00	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	63134.84	250.00
PFHxA 2	313.0 / 119.0	1.88	13C5-PFHxA	318.0 / 273.0	63134.84	250.00
PFHpA 1	363.0 / 319.0	2.29	13C4-PFHpA	367.0 / 322.0	66285.64	250.00
PFHpA 2	363.0 / 169.0	2.30	13C4-PFHpA	367.0 / 322.0	66285.64	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	23705.87	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	23705.87	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	77573.52	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	77573.52	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	93994.33	250.00
PFNA 2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	93994.33	250.00
PFOS 1	499.0 / 80.0	3.10	13C8-PFOS	507.0 / 99.0	25276.93	239.25
PFOS 2	499.0 / 99.0	3.10	13C8-PFOS	507.0 / 99.0	25276.93	239.25
PFDA 1	513.0 / 469.0	3.47	13C6-PFDA	519.0 / 474.0	88095.93	250.00
PFDA 2	513.0 / 219.0	3.47	13C6-PFDA	519.0 / 474.0	88095.93	250.00
PFUnA 1	563.0 / 519.0	3.79	13C7-PFUnA	570.0 / 525.0	82754.96	250.00
PFUnA 2	563.0 / 269.0	3.79	13C7-PFUnA	570.0 / 525.0	82754.96	250.00
PFDoA 1	613.0 / 569.0	4.07	13C2-PFDoA	615.0 / 570.0	99995.01	250.00
PFDoA 2	613.0 / 319.0	4.07	13C2-PFDoA	615.0 / 570.0	99995.01	250.00
PFTrDA 1	663.0 / 619.0	4.32	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
PFTrDA 2	663.0 / 169.0	4.32	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
PFTeDA 1	713.0 / 669.0	4.54	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
PFTeDA 2	713.0 / 169.0	4.54	13C2-PFTeDA	715.0 / 670.0	81617.66	250.00
NMeFOSAA 1	570.0 / 419.0	3.62	d3-MeFOSAA	573.0 / 419.0	18782.71	250.00
NMeFOSAA 2	570.0 / 512.0	3.62	d3-MeFOSAA	573.0 / 419.0	18782.71	250.00
NEtFOSAA 1	584.0 / 419.0	3.78	d5-EtFOSAA	589.0 / 419.0	16682.63	250.00
NEtFOSAA 2	584.0 / 483.0	3.78	d5-EtFOSAA	589.0 / 419.0	16682.63	250.00
PFBA	213.0 / 169.0	1.15	13C4-PFBA	217.0 / 172.0	83131.67	250.00
PFPeA	263.0 / 219.0	1.49	13C5-PFPeA	268.0 / 223.0	72654.67	250.00
PFHpS 1	449.0 / 80.0	2.71	13C8-PFOA	421.0 / 376.0	77573.52	250.00
PFHpS 2	449.0 / 99.0	2.71	13C8-PFOA	421.0 / 376.0	77573.52	250.00
PFDS 1	599.0 / 80.0	3.76	13C7-PFUnA	570.0 / 525.0	82754.96	250.00
PFDS 2	599.0 / 99.0	3.76	13C7-PFUnA	570.0 / 525.0	82754.96	250.00
4:2FTS 1	327.0 / 307.0	1.83	13C2-4:2FTS	329.0 / 81.0	6429.93	233.75
4:2FTS 2	327.0 / 80.0	1.83	13C2-4:2FTS	329.0 / 81.0	6429.93	233.75
6:2FTS 1	427.0 / 407.0	2.67	13C2-6:2FTS	429.0 / 81.0	15475.19	237.25
6:2FTS 2	427.0 / 81.0	2.67	13C2-6:2FTS	429.0 / 81.0	15475.19	237.25
8:2FTS 1	527.0 / 507.0	3.44	13C2-8:2 FTS	529.0 / 81.0	18307.95	239.50
8:2FTS 2	527.0 / 487.0	3.44	13C2-8:2 FTS	529.0 / 81.0	18307.95	239.50
PFPeS 1	349.0 / 99.0	1.92	13C5-PFHxA	318.0 / 273.0	63134.84	250.00
PFPeS 2	349.0 / 80.0	1.92	13C5-PFHxA	318.0 / 273.0	63134.84	250.00
PFNS 1	549.0 / 99.0	3.44	13C6-PFDA	519.0 / 474.0	88095.93	250.00
PFNS 2	549.0 / 80.0	3.44	13C6-PFDA	519.0 / 474.0	88095.93	250.00

Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	51155.71	250.00
13C2-PFDoA	615.0 / 570.0	4.10	13C2-PFDA	515.0 / 470.0	100139.46	250.00
d3-MeFOSAA	573.0 / 419.0	3.65	13C4-PFOS	503.0 / 99.0	29846.55	239.25
d5-EtFOSAA	589.0 / 419.0	3.81	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C5-PFPeA	268.0 / 223.0	1.49	13C3-PFBA	216.0 / 172.0	51155.71	250.00
13C5-PFHxA	318.0 / 273.0	1.89	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C4-PFHpA	367.0 / 322.0	2.30	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C8-PFOA	421.0 / 376.0	2.72	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C9-PFNA	472.0 / 427.0	3.12	13C2-PFOA	415.0 / 370.0	79095.63	250.00
13C6-PFDA	519.0 / 474.0	3.48	13C2-PFDA	515.0 / 470.0	100139.46	250.00
13C7-PFUnA	570.0 / 525.0	3.81	13C2-PFDA	515.0 / 470.0	100139.46	250.00
13C2-PFTeDA	715.0 / 670.0	4.58	13C2-PFDA	515.0 / 470.0	100139.46	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C3-PFHxS	402.0 / 99.0	2.33	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C8-PFOS	507.0 / 99.0	3.12	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C2-4:2FTS	329.0 / 81.0	1.84	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C2-6:2FTS	429.0 / 81.0	2.69	13C4-PFOS	503.0 / 99.0	29846.55	239.25
13C2-8:2FTS	529.0 / 81.0	3.47	13C4-PFOS	503.0 / 99.0	29846.55	239.25

Sample Name	KB74	Injection Vial	3
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:57:45	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	56000.93	250.00
13C2-PFDoA	615.0 / 570.0	4.09	13C2-PFDA	515.0 / 470.0	103883.83	250.00
d3-MeFOSAA	573.0 / 419.0	3.64	13C4-PFOS	503.0 / 99.0	34856.85	239.25
d5-EtFOSAA	589.0 / 419.0	3.80	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C5-PFPeA	268.0 / 223.0	1.49	13C3-PFBA	216.0 / 172.0	56000.93	250.00
13C5-PFHxA	318.0 / 273.0	1.89	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C4-PFHpA	367.0 / 322.0	2.30	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C8-PFOA	421.0 / 376.0	2.72	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C9-PFNA	472.0 / 427.0	3.11	13C2-PFOA	415.0 / 370.0	89971.31	250.00
13C6-PFDA	519.0 / 474.0	3.48	13C2-PFDA	515.0 / 470.0	103883.83	250.00
13C7-PFUaA	570.0 / 525.0	3.80	13C2-PFDA	515.0 / 470.0	103883.83	250.00
13C2-PFTeDA	715.0 / 670.0	4.57	13C2-PFDA	515.0 / 470.0	103883.83	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C3-PFHxS	402.0 / 99.0	2.32	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C8-PFOS	507.0 / 99.0	3.11	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C2-4:2FTS	329.0 / 81.0	1.83	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C2-6:2FTS	429.0 / 81.0	2.68	13C4-PFOS	503.0 / 99.0	34856.85	239.25
13C2-8:2FTS	529.0 / 81.0	3.46	13C4-PFOS	503.0 / 99.0	34856.85	239.25

Sample Name	KB75	Injection Vial	4
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:08:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	54546.47	250.00
13C2-PFDoA	615.0 / 570.0	4.08	13C2-PFDA	515.0 / 470.0	98052.33	250.00
d3-MeFOSAA	573.0 / 419.0	3.63	13C4-PFOS	503.0 / 99.0	30684.77	239.25
d5-EtFOSAA	589.0 / 419.0	3.79	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C5-PFPeA	268.0 / 223.0	1.49	13C3-PFBA	216.0 / 172.0	54546.47	250.00
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C8-PFOA	421.0 / 376.0	2.71	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C9-PFNA	472.0 / 427.0	3.10	13C2-PFOA	415.0 / 370.0	87799.30	250.00
13C6-PFDA	519.0 / 474.0	3.47	13C2-PFDA	515.0 / 470.0	98052.33	250.00
13C7-PFUnA	570.0 / 525.0	3.79	13C2-PFDA	515.0 / 470.0	98052.33	250.00
13C2-PFTeDA	715.0 / 670.0	4.56	13C2-PFDA	515.0 / 470.0	98052.33	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C3-PFHxS	402.0 / 99.0	2.32	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C8-PFOS	507.0 / 99.0	3.10	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C2-4:2FTS	329.0 / 81.0	1.83	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C2-6:2FTS	429.0 / 81.0	2.68	13C4-PFOS	503.0 / 99.0	30684.77	239.25
13C2-8:2FTS	529.0 / 81.0	3.45	13C4-PFOS	503.0 / 99.0	30684.77	239.25

Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	54277.49	250.00
13C2-PFDoA	615.0 / 570.0	4.08	13C2-PFDA	515.0 / 470.0	99978.99	250.00
d3-MeFOSAA	573.0 / 419.0	3.62	13C4-PFOS	503.0 / 99.0	30962.75	239.25
d5-EtFOSAA	589.0 / 419.0	3.79	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C5-PFPeA	268.0 / 223.0	1.48	13C3-PFBA	216.0 / 172.0	54277.49	250.00
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C9-PFNA	472.0 / 427.0	3.10	13C2-PFOA	415.0 / 370.0	84567.91	250.00
13C6-PFDA	519.0 / 474.0	3.46	13C2-PFDA	515.0 / 470.0	99978.99	250.00
13C7-PFUaA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	99978.99	250.00
13C2-PFTeDA	715.0 / 670.0	4.55	13C2-PFDA	515.0 / 470.0	99978.99	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C3-PFHxS	402.0 / 99.0	2.32	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C8-PFOS	507.0 / 99.0	3.10	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C2-4:2FTS	329.0 / 81.0	1.82	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C2-6:2FTS	429.0 / 81.0	2.67	13C4-PFOS	503.0 / 99.0	30962.75	239.25
13C2-8:2FTS	529.0 / 81.0	3.45	13C4-PFOS	503.0 / 99.0	30962.75	239.25

Sample Name	KB77	Injection Vial	6
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:30:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	51145.02	250.00
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	90129.70	250.00
d3-MeFOSAA	573.0 / 419.0	3.62	13C4-PFOS	503.0 / 99.0	31518.26	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C5-PFPeA	268.0 / 223.0	1.48	13C3-PFBA	216.0 / 172.0	51145.02	250.00
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C9-PFNA	472.0 / 427.0	3.10	13C2-PFOA	415.0 / 370.0	80369.12	250.00
13C6-PFDA	519.0 / 474.0	3.46	13C2-PFDA	515.0 / 470.0	90129.70	250.00
13C7-PFUaA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	90129.70	250.00
13C2-PFTeDA	715.0 / 670.0	4.55	13C2-PFDA	515.0 / 470.0	90129.70	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C8-PFOS	507.0 / 99.0	3.10	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C2-4:2FTS	329.0 / 81.0	1.83	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C2-6:2FTS	429.0 / 81.0	2.67	13C4-PFOS	503.0 / 99.0	31518.26	239.25
13C2-8:2FTS	529.0 / 81.0	3.45	13C4-PFOS	503.0 / 99.0	31518.26	239.25

Sample Name	KB78	Injection Vial	7
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:41:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	54844.25	250.00
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	104169.70	250.00
d3-MeFOSAA	573.0 / 419.0	3.61	13C4-PFOS	503.0 / 99.0	29589.19	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C5-PFPeA	268.0 / 223.0	1.48	13C3-PFBA	216.0 / 172.0	54844.25	250.00
13C5-PFHxA	318.0 / 273.0	1.87	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C4-PFHpA	367.0 / 322.0	2.28	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C9-PFNA	472.0 / 427.0	3.09	13C2-PFOA	415.0 / 370.0	85964.25	250.00
13C6-PFDA	519.0 / 474.0	3.45	13C2-PFDA	515.0 / 470.0	104169.70	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	104169.70	250.00
13C2-PFTeDA	715.0 / 670.0	4.54	13C2-PFDA	515.0 / 470.0	104169.70	250.00
13C3-PFBS	302.0 / 99.0	1.54	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C8-PFOS	507.0 / 99.0	3.09	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C2-4:2FTS	329.0 / 81.0	1.82	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C2-6:2FTS	429.0 / 81.0	2.67	13C4-PFOS	503.0 / 99.0	29589.19	239.25
13C2-8:2FTS	529.0 / 81.0	3.44	13C4-PFOS	503.0 / 99.0	29589.19	239.25



Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	51878.18	250.00
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	100765.46	250.00
d3-MeFOSAA	573.0 / 419.0	3.62	13C4-PFOS	503.0 / 99.0	26984.04	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C5-PFPeA	268.0 / 223.0	1.48	13C3-PFBA	216.0 / 172.0	51878.18	250.00
13C5-PFHxA	318.0 / 273.0	1.87	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C4-PFHpA	367.0 / 322.0	2.28	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C9-PFNA	472.0 / 427.0	3.09	13C2-PFOA	415.0 / 370.0	86636.81	250.00
13C6-PFDA	519.0 / 474.0	3.45	13C2-PFDA	515.0 / 470.0	100765.46	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	100765.46	250.00
13C2-PFTeDA	715.0 / 670.0	4.54	13C2-PFDA	515.0 / 470.0	100765.46	250.00
13C3-PFBS	302.0 / 99.0	1.54	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C8-PFOS	507.0 / 99.0	3.09	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C2-4:2FTS	329.0 / 81.0	1.82	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C2-6:2FTS	429.0 / 81.0	2.66	13C4-PFOS	503.0 / 99.0	26984.04	239.25
13C2-8:2FTS	529.0 / 81.0	3.44	13C4-PFOS	503.0 / 99.0	26984.04	239.25

Sample Name	KB81 ICC	Injection Vial	10
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:13:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.56	877.420602	1010.00	86.87
PFBS_2	298.9 / 99.0	1.56	838.659062	1010.00	83.04
PFHxA_1	313.0 / 269.0	1.89	1006.652936	1010.00	99.67
PFHxA_2	313.0 / 119.0	1.89	896.376115	1010.00	88.75
PFHpA_1	363.0 / 319.0	2.30	856.292979	1000.00	85.63
PFHpA_2	363.0 / 169.0	2.29	976.724688	1000.00	97.67
PFHxS_1	399.0 / 80.0	2.32	998.233289	1010.00	98.83
PFHxS_2	399.0 / 99.0	2.32	992.688608	1010.00	98.29
PFOA_1	413.0 / 369.0	2.71	930.879127	1000.00	93.09
PFOA_2	413.0 / 169.0	2.71	872.168076	1000.00	87.22
PFNA_1	463.0 / 419.0	3.11	1034.052055	1000.00	103.41
PFNA_2	463.0 / 219.0	3.10	1037.625087	1000.00	103.76
PFOS_1	499.0 / 80.0	3.10	906.626239	1000.00	90.66
PFOS_2	499.0 / 99.0	3.10	919.881718	1000.00	91.99
PFDA_1	513.0 / 469.0	3.46	983.979238	1000.00	98.40
PFDA_2	513.0 / 219.0	3.46	976.593938	1000.00	97.66
PFUnA_1	563.0 / 519.0	3.79	923.159866	1000.00	92.32
PFUnA_2	563.0 / 269.0	3.79	975.741234	1000.00	97.57
PFDoA_1	613.0 / 569.0	4.07	980.552902	1000.00	98.06
PFDoA_2	613.0 / 319.0	4.07	934.947666	1000.00	93.49
PFTrDA_1	663.0 / 619.0	4.32	1073.075185	1000.00	107.31
PFTrDA_2	663.0 / 169.0	4.32	1041.820014	1000.00	104.18
PFTeDA_1	713.0 / 669.0	4.54	1020.055697	1000.00	102.01
PFTeDA_2	713.0 / 169.0	4.54	1079.815842	1000.00	107.98
NMeFOSAA_1	570.0 / 419.0	3.62	945.129517	1000.00	94.51
NMeFOSAA_2	570.0 / 512.0	3.62	965.108458	1000.00	96.51
NEtFOSAA_1	584.0 / 419.0	3.78	1244.646852	1000.00	124.46
NEtFOSAA_2	584.0 / 483.0	3.78	1233.660110	1000.00	123.37

Sample Name	KB76 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T00:51:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.54	1056.319317	1010.00	104.59
PFBS_2	298.9 / 99.0	1.54	1066.164680	1010.00	105.56
PFHxA_1	313.0 / 269.0	1.86	1006.310537	1010.00	99.63
PFHxA_2	313.0 / 119.0	1.86	1035.099395	1010.00	102.49
PFHpA_1	363.0 / 319.0	2.27	973.328737	1000.00	97.33
PFHpA_2	363.0 / 169.0	2.27	784.329237	1000.00	78.43
PFHxS_1	399.0 / 80.0	2.29	964.945274	1010.00	95.54
PFHxS_2	399.0 / 99.0	2.29	1032.158976	1010.00	102.19
PFOA_1	413.0 / 369.0	2.68	961.508595	1000.00	96.15
PFOA_2	413.0 / 169.0	2.68	989.138979	1000.00	98.91
PFNA_1	463.0 / 419.0	3.08	1095.381999	1000.00	109.54
PFNA_2	463.0 / 219.0	3.08	1098.825745	1000.00	109.88
PFOS_1	499.0 / 80.0	3.08	1004.719445	1000.00	100.47
PFOS_2	499.0 / 99.0	3.08	1002.557518	1000.00	100.26
PFDA_1	513.0 / 469.0	3.43	968.352330	1000.00	96.84
PFDA_2	513.0 / 219.0	3.43	938.318692	1000.00	93.83
PFUnA_1	563.0 / 519.0	3.76	1013.433490	1000.00	101.34
PFUnA_2	563.0 / 269.0	3.76	1198.562024	1000.00	119.86
PFDoA_1	613.0 / 569.0	4.04	1102.309135	1000.00	110.23
PFDoA_2	613.0 / 319.0	4.04	1092.747202	1000.00	109.27
PFTrDA_1	663.0 / 619.0	4.29	1057.215163	1000.00	105.72
PFTrDA_2	663.0 / 169.0	4.29	1136.472694	1000.00	113.65
PFTeDA_1	713.0 / 669.0	4.50	1055.733551	1000.00	105.57
PFTeDA_2	713.0 / 169.0	4.50	1127.902826	1000.00	112.79
NMeFOSAA_1	570.0 / 419.0	3.59	1084.449796	1000.00	108.44
NMeFOSAA_2	570.0 / 512.0	3.59	1066.267565	1000.00	106.63
NEtFOSAA_1	584.0 / 419.0	3.75	1064.273503	1000.00	106.43
NEtFOSAA_2	584.0 / 483.0	3.75	981.674460	1000.00	98.17

Sample Name	KB77 CCV	Injection Vial	39
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:39:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.54	2476.493681	2525.00	98.08
PFBS_2	298.9 / 99.0	1.54	2476.074671	2525.00	98.06
PFHxA_1	313.0 / 269.0	1.86	2510.653648	2525.00	99.43
PFHxA_2	313.0 / 119.0	1.86	2479.364120	2525.00	98.19
PFHpA_1	363.0 / 319.0	2.27	2395.275264	2500.00	95.81
PFHpA_2	363.0 / 169.0	2.27	2256.977178	2500.00	90.28
PFHxS_1	399.0 / 80.0	2.30	2684.494221	2525.00	106.32
PFHxS_2	399.0 / 99.0	2.30	2749.353159	2525.00	108.89
PFOA_1	413.0 / 369.0	2.68	2535.877984	2500.00	101.44
PFOA_2	413.0 / 169.0	2.69	2558.806222	2500.00	102.35
PFNA_1	463.0 / 419.0	3.08	2735.306887	2500.00	109.41
PFNA_2	463.0 / 219.0	3.08	2802.152725	2500.00	112.09
PFOS_1	499.0 / 80.0	3.08	2573.135307	2500.00	102.93
PFOS_2	499.0 / 99.0	3.08	2629.041191	2500.00	105.16
PFDA_1	513.0 / 469.0	3.43	2634.707149	2500.00	105.39
PFDA_2	513.0 / 219.0	3.43	2626.500736	2500.00	105.06
PFUnA_1	563.0 / 519.0	3.76	2427.332986	2500.00	97.09
PFUnA_2	563.0 / 269.0	3.76	2605.931838	2500.00	104.24
PFDoA_1	613.0 / 569.0	4.04	2425.673764	2500.00	97.03
PFDoA_2	613.0 / 319.0	4.04	2405.471810	2500.00	96.22
PFTTrDA_1	663.0 / 619.0	4.29	2633.014034	2500.00	105.32
PFTTrDA_2	663.0 / 169.0	4.28	2478.680315	2500.00	99.15
PFTTeDA_1	713.0 / 669.0	4.50	2522.651992	2500.00	100.91
PFTTeDA_2	713.0 / 169.0	4.50	2684.006395	2500.00	107.36
NMeFOSAA_1	570.0 / 419.0	3.59	2920.321849	2500.00	116.81
NMeFOSAA_2	570.0 / 512.0	3.59	2907.247697	2500.00	116.29
NEtFOSAA_1	584.0 / 419.0	3.75	2828.339817	2500.00	113.13
NEtFOSAA_2	584.0 / 483.0	3.75	2935.507822	2500.00	117.42

Sample Name	KB76 CCV	Injection Vial	50
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:39:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.54	1064.774324	1010.00	105.42
PFBS_2	298.9 / 99.0	1.54	1110.259181	1010.00	109.93
PFHxA_1	313.0 / 269.0	1.86	1062.204498	1010.00	105.17
PFHxA_2	313.0 / 119.0	1.86	1053.556030	1010.00	104.31
PFHpA_1	363.0 / 319.0	2.27	1001.060889	1000.00	100.11
PFHpA_2	363.0 / 169.0	2.27	974.359300	1000.00	97.44
PFHxS_1	399.0 / 80.0	2.29	1208.070819	1010.00	119.61
PFHxS_2	399.0 / 99.0	2.29	1223.342338	1010.00	121.12
PFOA_1	413.0 / 369.0	2.68	1082.222256	1000.00	108.22
PFOA_2	413.0 / 169.0	2.68	1097.667766	1000.00	109.77
PFNA_1	463.0 / 419.0	3.08	1092.481337	1000.00	109.25
PFNA_2	463.0 / 219.0	3.08	1145.484024	1000.00	114.55
PFOS_1	499.0 / 80.0	3.08	965.360306	1000.00	96.54
PFOS_2	499.0 / 99.0	3.08	1000.204180	1000.00	100.02
PFDA_1	513.0 / 469.0	3.43	975.378369	1000.00	97.54
PFDA_2	513.0 / 219.0	3.43	1056.258982	1000.00	105.63
PFUnA_1	563.0 / 519.0	3.75	982.868547	1000.00	98.29
PFUnA_2	563.0 / 269.0	3.75	1098.356861	1000.00	109.84
PFDoA_1	613.0 / 569.0	4.04	1070.465213	1000.00	107.05
PFDoA_2	613.0 / 319.0	4.04	1051.766644	1000.00	105.18
PFTTrDA_1	663.0 / 619.0	4.28	1080.650200	1000.00	108.07
PFTTrDA_2	663.0 / 169.0	4.28	1174.183710	1000.00	117.42
PFTeDA_1	713.0 / 669.0	4.49	1031.829464	1000.00	103.18
PFTeDA_2	713.0 / 169.0	4.49	1036.080813	1000.00	103.61
NMeFOSAA_1	570.0 / 419.0	3.59	1086.716231	1000.00	108.67
NMeFOSAA_2	570.0 / 512.0	3.58	1032.027701	1000.00	103.20
NEtFOSAA_1	584.0 / 419.0	3.75	1024.580411	1000.00	102.46
NEtFOSAA_2	584.0 / 483.0	3.75	1182.379184	1000.00	118.24

Sample Name	KB77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:38:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.54	2433.508563	2525.00	96.38
PFBS_2	298.9 / 99.0	1.54	2526.390479	2525.00	100.06
PFHxA_1	313.0 / 269.0	1.86	2422.898324	2525.00	95.96
PFHxA_2	313.0 / 119.0	1.86	2415.845798	2525.00	95.68
PFHpA_1	363.0 / 319.0	2.27	2477.785674	2500.00	99.11
PFHpA_2	363.0 / 169.0	2.27	2204.111531	2500.00	88.16
PFHxS_1	399.0 / 80.0	2.30	2823.531918	2525.00	111.82
PFHxS_2	399.0 / 99.0	2.29	2772.111565	2525.00	109.79
PFOA_1	413.0 / 369.0	2.68	2389.583284	2500.00	95.58
PFOA_2	413.0 / 169.0	2.68	2372.788322	2500.00	94.91
PFNA_1	463.0 / 419.0	3.08	2640.226568	2500.00	105.61
PFNA_2	463.0 / 219.0	3.08	2428.157949	2500.00	97.13
PFOS_1	499.0 / 80.0	3.08	2476.722748	2500.00	99.07
PFOS_2	499.0 / 99.0	3.07	2530.883091	2500.00	101.24
PFDA_1	513.0 / 469.0	3.43	2416.253502	2500.00	96.65
PFDA_2	513.0 / 219.0	3.43	2584.057755	2500.00	103.36
PFUnA_1	563.0 / 519.0	3.75	2504.284496	2500.00	100.17
PFUnA_2	563.0 / 269.0	3.75	2561.674130	2500.00	102.47
PFDoA_1	613.0 / 569.0	4.03	2576.923128	2500.00	103.08
PFDoA_2	613.0 / 319.0	4.03	2646.337396	2500.00	105.85
PFTTrDA_1	663.0 / 619.0	4.28	2664.806832	2500.00	106.59
PFTTrDA_2	663.0 / 169.0	4.28	2684.897605	2500.00	107.40
PFTeDA_1	713.0 / 669.0	4.49	2602.518630	2500.00	104.10
PFTeDA_2	713.0 / 169.0	4.49	2657.862790	2500.00	106.31
NMeFOSAA_1	570.0 / 419.0	3.58	3080.939829	2500.00	123.24
NMeFOSAA_2	570.0 / 512.0	3.58	2917.757719	2500.00	116.71
NEtFOSAA_1	584.0 / 419.0	3.74	2413.458015	2500.00	96.54
NEtFOSAA_2	584.0 / 483.0	3.75	2248.358117	2500.00	89.93

Sample Name	KB76 CCV	Injection Vial	18
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:38:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.54	1089.333034	1010.00	107.85
PFBS_2	298.9 / 99.0	1.54	1076.449933	1010.00	106.58
PFHxA_1	313.0 / 269.0	1.86	1071.430545	1010.00	106.08
PFHxA_2	313.0 / 119.0	1.86	1124.564957	1010.00	111.34
PFHpA_1	363.0 / 319.0	2.27	1054.412537	1000.00	105.44
PFHpA_2	363.0 / 169.0	2.27	1029.827292	1000.00	102.98
PFHxS_1	399.0 / 80.0	2.29	1303.929122	1010.00	129.10
PFHxS_2	399.0 / 99.0	2.29	1292.604282	1010.00	127.98
PFOA_1	413.0 / 369.0	2.67	1139.480685	1000.00	113.95
PFOA_2	413.0 / 169.0	2.67	1105.089410	1000.00	110.51
PFNA_1	463.0 / 419.0	3.07	1035.910443	1000.00	103.59
PFNA_2	463.0 / 219.0	3.07	1113.225811	1000.00	111.32
PFOS_1	499.0 / 80.0	3.07	1105.462548	1000.00	110.55
PFOS_2	499.0 / 99.0	3.07	1169.427416	1000.00	116.94
PFDA_1	513.0 / 469.0	3.42	1023.135798	1000.00	102.31
PFDA_2	513.0 / 219.0	3.42	952.883568	1000.00	95.29
PFUnA_1	563.0 / 519.0	3.74	1060.816910	1000.00	106.08
PFUnA_2	563.0 / 269.0	3.74	1125.736357	1000.00	112.57
PFDoA_1	613.0 / 569.0	4.03	1055.326292	1000.00	105.53
PFDoA_2	613.0 / 319.0	4.02	1032.386980	1000.00	103.24
PFTrDA_1	663.0 / 619.0	4.27	1126.018812	1000.00	112.60
PFTrDA_2	663.0 / 169.0	4.27	1092.318863	1000.00	109.23
PFTeDA_1	713.0 / 669.0	4.49	1020.215788	1000.00	102.02
PFTeDA_2	713.0 / 169.0	4.48	1011.215700	1000.00	101.12
NMeFOSAA_1	570.0 / 419.0	3.58	941.492514	1000.00	94.15
NMeFOSAA_2	570.0 / 512.0	3.58	879.347143	1000.00	87.93
NEtFOSAA_1	584.0 / 419.0	3.74	1085.416454	1000.00	108.54
NEtFOSAA_2	584.0 / 483.0	3.74	1003.886465	1000.00	100.39

Sample Name	KB77 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:38:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.53	2396.253264	2525.00	94.90
PFBS_2	298.9 / 99.0	1.53	2442.036299	2525.00	96.71
PFHxA_1	313.0 / 269.0	1.85	2631.362717	2525.00	104.21
PFHxA_2	313.0 / 119.0	1.85	2605.004459	2525.00	103.17
PFHpA_1	363.0 / 319.0	2.26	2447.479990	2500.00	97.90
PFHpA_2	363.0 / 169.0	2.26	2275.359578	2500.00	91.01
PFHxS_1	399.0 / 80.0	2.28	2615.739280	2525.00	103.59
PFHxS_2	399.0 / 99.0	2.28	2695.820217	2525.00	106.77
PFOA_1	413.0 / 369.0	2.67	2407.712427	2500.00	96.31
PFOA_2	413.0 / 169.0	2.67	2318.334899	2500.00	92.73
PFNA_1	463.0 / 419.0	3.06	2832.815035	2500.00	113.31
PFNA_2	463.0 / 219.0	3.06	2956.215206	2500.00	118.25
PFOS_1	499.0 / 80.0	3.06	2585.089707	2500.00	103.40
PFOS_2	499.0 / 99.0	3.06	2599.504268	2500.00	103.98
PFDA_1	513.0 / 469.0	3.42	2482.448650	2500.00	99.30
PFDA_2	513.0 / 219.0	3.42	2411.390290	2500.00	96.46
PFUnA_1	563.0 / 519.0	3.74	2558.541561	2500.00	102.34
PFUnA_2	563.0 / 269.0	3.74	2583.937045	2500.00	103.36
PFDoA_1	613.0 / 569.0	4.02	2698.577030	2500.00	107.94
PFDoA_2	613.0 / 319.0	4.02	2745.260730	2500.00	109.81
PFTrDA_1	663.0 / 619.0	4.27	2604.198175	2500.00	104.17
PFTrDA_2	663.0 / 169.0	4.26	2592.951623	2500.00	103.72
PFTeDA_1	713.0 / 669.0	4.48	2531.066241	2500.00	101.24
PFTeDA_2	713.0 / 169.0	4.48	2572.872002	2500.00	102.91
NMeFOSAA_1	570.0 / 419.0	3.58	2637.987405	2500.00	105.52
NMeFOSAA_2	570.0 / 512.0	3.57	2703.920079	2500.00	108.16
NEtFOSAA_1	584.0 / 419.0	3.73	2771.012644	2500.00	110.84
NEtFOSAA_2	584.0 / 483.0	3.73	3180.573437	2500.00	127.22



Sample Name	KB76 CCV	Injection Vial	33
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:22:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.54	1000.777598	1010.00	99.09
PFBS_2	298.9 / 99.0	1.54	1025.754242	1010.00	101.56
PFHxA_1	313.0 / 269.0	1.86	957.919919	1010.00	94.84
PFHxA_2	313.0 / 119.0	1.86	962.187337	1010.00	95.27
PFHpA_1	363.0 / 319.0	2.27	1008.164181	1000.00	100.82
PFHpA_2	363.0 / 169.0	2.27	996.522008	1000.00	99.65
PFHxS_1	399.0 / 80.0	2.29	1068.715508	1010.00	105.81
PFHxS_2	399.0 / 99.0	2.29	1192.296643	1010.00	118.05
PFOA_1	413.0 / 369.0	2.67	1123.706465	1000.00	112.37
PFOA_2	413.0 / 169.0	2.67	1047.332543	1000.00	104.73
PFNA_1	463.0 / 419.0	3.07	1065.832279	1000.00	106.58
PFNA_2	463.0 / 219.0	3.07	1022.850924	1000.00	102.29
PFOS_1	499.0 / 80.0	3.06	1115.078654	1000.00	111.51
PFOS_2	499.0 / 99.0	3.06	1189.220781	1000.00	118.92
PFDA_1	513.0 / 469.0	3.42	944.269083	1000.00	94.43
PFDA_2	513.0 / 219.0	3.42	806.869653	1000.00	80.69
PFUnA_1	563.0 / 519.0	3.74	1082.809569	1000.00	108.28
PFUnA_2	563.0 / 269.0	3.74	1152.625907	1000.00	115.26
PFDoA_1	613.0 / 569.0	4.02	981.546865	1000.00	98.15
PFDoA_2	613.0 / 319.0	4.02	1073.710594	1000.00	107.37
PFTTrDA_1	663.0 / 619.0	4.26	1067.893500	1000.00	106.79
PFTTrDA_2	663.0 / 169.0	4.26	1108.121509	1000.00	110.81
PFTeDA_1	713.0 / 669.0	4.47	1007.488087	1000.00	100.75
PFTeDA_2	713.0 / 169.0	4.47	1019.523253	1000.00	101.95
NMeFOSAA_1	570.0 / 419.0	3.57	1115.171799	1000.00	111.52
NMeFOSAA_2	570.0 / 512.0	3.58	1070.017497	1000.00	107.00
NEtFOSAA_1	584.0 / 419.0	3.73	914.736115	1000.00	91.47
NEtFOSAA_2	584.0 / 483.0	3.73	1017.712184	1000.00	101.77

Sample Name	KB81 ICC	Injection Vial	10
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:13:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.06	231.611603	250.00	92.64
d3-MeFOSAA	573.0 / 419.0	3.61	235.098552	250.00	94.04
d5-EtFOSAA	589.0 / 419.0	3.78	176.181506	250.00	70.47
13C5-PFHxA	318.0 / 273.0	1.88	233.905404	250.00	93.56
13C4-PFHpA	367.0 / 322.0	2.29	244.843738	250.00	97.94
13C8-PFOA	421.0 / 376.0	2.70	255.222211	250.00	102.09
13C9-PFNA	472.0 / 427.0	3.09	253.115276	250.00	101.25
13C6-PFDA	519.0 / 474.0	3.45	223.796875	250.00	89.52
13C7-PFUnA	570.0 / 525.0	3.77	237.910809	250.00	95.16
13C2-PFTeDA	715.0 / 670.0	4.54	218.862217	250.00	87.54
13C3-PFBS	302.0 / 99.0	1.55	206.860264	232.25	89.07
13C3-PFHxS	402.0 / 99.0	2.31	210.154754	236.50	88.86
13C8-PFOS	507.0 / 99.0	3.09	222.736043	239.25	93.10

Sample Name	KB76 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T00:51:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.03	229.245135	250.00	91.70
d3-MeFOSAA	573.0 / 419.0	3.58	245.442059	250.00	98.18
d5-EtFOSAA	589.0 / 419.0	3.75	251.123119	250.00	100.45
13C5-PFHxA	318.0 / 273.0	1.85	244.385402	250.00	97.75
13C4-PFHpA	367.0 / 322.0	2.26	232.227890	250.00	92.89
13C8-PFOA	421.0 / 376.0	2.67	254.537446	250.00	101.81
13C9-PFNA	472.0 / 427.0	3.07	230.306517	250.00	92.12
13C6-PFDA	519.0 / 474.0	3.42	261.127375	250.00	104.45
13C7-PFUnA	570.0 / 525.0	3.74	247.896014	250.00	99.16
13C2-PFTeDA	715.0 / 670.0	4.50	234.752494	250.00	93.90
13C3-PFBS	302.0 / 99.0	1.52	224.161896	232.25	96.52
13C3-PFHxS	402.0 / 99.0	2.28	267.959477	236.50	113.30
13C8-PFOS	507.0 / 99.0	3.06	235.148719	239.25	98.29

Sample Name	KB77 CCV	Injection Vial	39
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:39:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.03	242.391021	250.00	96.96
d3-MeFOSAA	573.0 / 419.0	3.59	221.801315	250.00	88.72
d5-EtFOSAA	589.0 / 419.0	3.74	206.238002	250.00	82.50
13C5-PFHxA	318.0 / 273.0	1.85	246.386191	250.00	98.55
13C4-PFHpA	367.0 / 322.0	2.26	251.458822	250.00	100.58
13C8-PFOA	421.0 / 376.0	2.67	253.205427	250.00	101.28
13C9-PFNA	472.0 / 427.0	3.07	229.725529	250.00	91.89
13C6-PFDA	519.0 / 474.0	3.42	229.471855	250.00	91.79
13C7-PFUnA	570.0 / 525.0	3.74	256.438194	250.00	102.58
13C2-PFTeDA	715.0 / 670.0	4.49	238.751213	250.00	95.50
13C3-PFBS	302.0 / 99.0	1.52	222.965455	232.25	96.00
13C3-PFHxS	402.0 / 99.0	2.28	227.998180	236.50	96.41
13C8-PFOS	507.0 / 99.0	3.06	226.189354	239.25	94.54

Sample Name	KB76 CCV	Injection Vial	50
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:39:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.03	247.852172	250.00	99.14
d3-MeFOSAA	573.0 / 419.0	3.58	231.171005	250.00	92.47
d5-EtFOSAA	589.0 / 419.0	3.74	226.583640	250.00	90.63
13C5-PFHxA	318.0 / 273.0	1.85	255.852288	250.00	102.34
13C4-PFHpA	367.0 / 322.0	2.26	244.123253	250.00	97.65
13C8-PFOA	421.0 / 376.0	2.67	264.114157	250.00	105.65
13C9-PFNA	472.0 / 427.0	3.06	229.970264	250.00	91.99
13C6-PFDA	519.0 / 474.0	3.42	254.942091	250.00	101.98
13C7-PFUnA	570.0 / 525.0	3.74	265.635787	250.00	106.25
13C2-PFTeDA	715.0 / 670.0	4.49	253.660251	250.00	101.46
13C3-PFBS	302.0 / 99.0	1.52	214.876133	232.25	92.52
13C3-PFHxS	402.0 / 99.0	2.28	226.035494	236.50	95.58
13C8-PFOS	507.0 / 99.0	3.06	253.559946	239.25	105.98

Sample Name	KB77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:38:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.02	252.919212	250.00	101.17
d3-MeFOSAA	573.0 / 419.0	3.58	194.024277	250.00	77.61
d5-EtFOSAA	589.0 / 419.0	3.74	232.649291	250.00	93.06
13C5-PFHxA	318.0 / 273.0	1.85	254.444613	250.00	101.78
13C4-PFHpA	367.0 / 322.0	2.26	237.437857	250.00	94.98
13C8-PFOA	421.0 / 376.0	2.67	263.122063	250.00	105.25
13C9-PFNA	472.0 / 427.0	3.06	240.945965	250.00	96.38
13C6-PFDA	519.0 / 474.0	3.42	256.600427	250.00	102.64
13C7-PFUnA	570.0 / 525.0	3.73	264.598955	250.00	105.84
13C2-PFTeDA	715.0 / 670.0	4.49	250.007479	250.00	100.00
13C3-PFBS	302.0 / 99.0	1.52	213.790086	232.25	92.05
13C3-PFHxS	402.0 / 99.0	2.29	208.932885	236.50	88.34
13C8-PFOS	507.0 / 99.0	3.06	214.614350	239.25	89.70

Sample Name	KB76 CCV	Injection Vial	18
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:38:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.01	228.321532	250.00	91.33
d3-MeFOSAA	573.0 / 419.0	3.57	269.221559	250.00	107.69
d5-EtFOSAA	589.0 / 419.0	3.73	236.919450	250.00	94.77
13C5-PFHxA	318.0 / 273.0	1.84	232.502846	250.00	93.00
13C4-PFHpA	367.0 / 322.0	2.25	223.283215	250.00	89.31
13C8-PFOA	421.0 / 376.0	2.66	245.471270	250.00	98.19
13C9-PFNA	472.0 / 427.0	3.06	224.011180	250.00	89.60
13C6-PFDA	519.0 / 474.0	3.41	237.036214	250.00	94.81
13C7-PFUnA	570.0 / 525.0	3.73	252.582549	250.00	101.03
13C2-PFTeDA	715.0 / 670.0	4.48	232.665745	250.00	93.07
13C3-PFBS	302.0 / 99.0	1.52	221.986109	232.25	95.58
13C3-PFHxS	402.0 / 99.0	2.28	214.103908	236.50	90.53
13C8-PFOS	507.0 / 99.0	3.05	228.517350	239.25	95.51

Sample Name	KB77 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:38:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.01	239.653030	250.00	95.86
d3-MeFOSAA	573.0 / 419.0	3.57	236.858204	250.00	94.74
d5-EtFOSAA	589.0 / 419.0	3.73	221.608279	250.00	88.64
13C5-PFHxA	318.0 / 273.0	1.84	243.873350	250.00	97.55
13C4-PFHpA	367.0 / 322.0	2.25	227.630093	250.00	91.05
13C8-PFOA	421.0 / 376.0	2.66	261.951048	250.00	104.78
13C9-PFNA	472.0 / 427.0	3.05	213.649740	250.00	85.46
13C6-PFDA	519.0 / 474.0	3.41	257.540575	250.00	103.02
13C7-PFUnA	570.0 / 525.0	3.73	268.031385	250.00	107.21
13C2-PFTeDA	715.0 / 670.0	4.47	252.654306	250.00	101.06
13C3-PFBS	302.0 / 99.0	1.51	233.778827	232.25	100.66
13C3-PFHxS	402.0 / 99.0	2.27	225.202016	236.50	95.22
13C8-PFOS	507.0 / 99.0	3.05	219.518934	239.25	91.75



Sample Name	KB76 CCV	Injection Vial	33
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:22:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.01	238.560244	250.00	95.42
d3-MeFOSAA	573.0 / 419.0	3.57	212.383634	250.00	84.95
d5-EtFOSAA	589.0 / 419.0	3.72	261.275783	250.00	104.51
13C5-PFHxA	318.0 / 273.0	1.85	262.246414	250.00	104.90
13C4-PFHpA	367.0 / 322.0	2.25	240.449823	250.00	96.18
13C8-PFOA	421.0 / 376.0	2.66	258.797131	250.00	103.52
13C9-PFNA	472.0 / 427.0	3.05	251.683903	250.00	100.67
13C6-PFDA	519.0 / 474.0	3.40	243.934337	250.00	97.57
13C7-PFUnA	570.0 / 525.0	3.72	234.392961	250.00	93.76
13C2-PFTeDA	715.0 / 670.0	4.47	228.203597	250.00	91.28
13C3-PFBS	302.0 / 99.0	1.52	211.345646	232.25	91.00
13C3-PFHxS	402.0 / 99.0	2.28	229.150108	236.50	96.89
13C8-PFOS	507.0 / 99.0	3.05	213.378841	239.25	89.19

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:16:51	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.57	502.963491	505.00	99.60
PFBS_2	298.9 / 99.0	1.57	496.453145	505.00	98.31
PFHxA_1	313.0 / 269.0	1.91	480.896992	505.00	95.23
PFHxA_2	313.0 / 119.0	1.91	485.682826	505.00	96.17
PFHpA_1	363.0 / 319.0	2.33	481.224420	500.00	96.24
PFHpA_2	363.0 / 169.0	2.32	452.441038	500.00	90.49
PFHxS_1	399.0 / 80.0	2.35	518.322649	505.00	102.64
PFHxS_2	399.0 / 99.0	2.35	520.806905	505.00	103.13
PFOA_1	413.0 / 369.0	2.74	450.789129	500.00	90.16
PFOA_2	413.0 / 169.0	2.74	546.555914	500.00	109.31
PFNA_1	463.0 / 419.0	3.14	494.521439	500.00	98.90
PFNA_2	463.0 / 219.0	3.14	507.732683	500.00	101.55
PFOS_1	499.0 / 80.0	3.14	441.273324	500.00	88.25
PFOS_2	499.0 / 99.0	3.14	470.431215	500.00	94.09
PFDA_1	513.0 / 469.0	3.50	451.709750	500.00	90.34
PFDA_2	513.0 / 219.0	3.50	556.902124	500.00	111.38
PFUnA_1	563.0 / 519.0	3.83	457.038917	500.00	91.41
PFUnA_2	563.0 / 269.0	3.83	585.085583	500.00	117.02
PFDoA_1	613.0 / 569.0	4.11	507.066970	500.00	101.41
PFDoA_2	613.0 / 319.0	4.11	531.157147	500.00	106.23
PFTTrDA_1	663.0 / 619.0	4.36	452.740787	500.00	90.55
PFTTrDA_2	663.0 / 169.0	4.36	467.337333	500.00	93.47
PFTeDA_1	713.0 / 669.0	4.58	504.192869	500.00	100.84
PFTeDA_2	713.0 / 169.0	4.58	503.867021	500.00	100.77
NMeFOSAA_1	570.0 / 419.0	3.66	429.345311	500.00	85.87
NMeFOSAA_2	570.0 / 512.0	3.66	376.857105	500.00	75.37
NEtFOSAA_1	584.0 / 419.0	3.82	419.389608	500.00	83.88
NEtFOSAA_2	584.0 / 483.0	3.81	616.043667	500.00	123.21

Sample Name	KB76 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:38:12	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS 1	298.9 / 80.0	1.55	1001.344883	1010.00	99.14
PFBS 2	298.9 / 99.0	1.55	1000.991268	1010.00	99.11
PFHxA 1	313.0 / 269.0	1.87	1056.822100	1010.00	104.64
PFHxA 2	313.0 / 119.0	1.88	1063.589580	1010.00	105.31
PFHpA 1	363.0 / 319.0	2.29	1028.757834	1000.00	102.88
PFHpA 2	363.0 / 169.0	2.28	1078.591914	1000.00	107.86
PFHxS 1	399.0 / 80.0	2.31	1019.434169	1010.00	100.93
PFHxS 2	399.0 / 99.0	2.31	1082.086267	1010.00	107.14
PFOA 1	413.0 / 369.0	2.70	932.235404	1000.00	93.22
PFOA 2	413.0 / 169.0	2.70	933.002458	1000.00	93.30
PFNA 1	463.0 / 419.0	3.09	969.448009	1000.00	96.94
PFNA 2	463.0 / 219.0	3.09	1051.266014	1000.00	105.13
PFOS 1	499.0 / 80.0	3.09	897.563869	1000.00	89.76
PFOS 2	499.0 / 99.0	3.09	878.460836	1000.00	87.85
PFDA 1	513.0 / 469.0	3.45	961.338899	1000.00	96.13
PFDA 2	513.0 / 219.0	3.45	966.373157	1000.00	96.64
PFUnA 1	563.0 / 519.0	3.77	987.093706	1000.00	98.71
PFUnA 2	563.0 / 269.0	3.77	910.317875	1000.00	91.03
PFDoA 1	613.0 / 569.0	4.05	1015.587992	1000.00	101.56
PFDoA 2	613.0 / 319.0	4.05	1054.052180	1000.00	105.41
PFTrDA 1	663.0 / 619.0	4.29	1124.598888	1000.00	112.46
PFTrDA 2	663.0 / 169.0	4.29	1060.017484	1000.00	106.00
PFTeDA 1	713.0 / 669.0	4.51	1082.017300	1000.00	108.20
PFTeDA 2	713.0 / 169.0	4.50	1150.888154	1000.00	115.09
NMeFOSAA 1	570.0 / 419.0	3.60	1103.795666	1000.00	110.38
NMeFOSAA 2	570.0 / 512.0	3.60	1164.756781	1000.00	116.48
NEtFOSAA 1	584.0 / 419.0	3.76	1000.785651	1000.00	100.08
NEtFOSAA 2	584.0 / 483.0	3.76	1121.091255	1000.00	112.11

Sample Name	KB77 CCV	Injection Vial	22
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:26:52	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.55	2322.242184	2525.00	91.97
PFBS_2	298.9 / 99.0	1.55	2405.198838	2525.00	95.26
PFHxA_1	313.0 / 269.0	1.87	2684.553499	2525.00	106.32
PFHxA_2	313.0 / 119.0	1.87	2433.262799	2525.00	96.37
PFHpA_1	363.0 / 319.0	2.28	2300.150540	2500.00	92.01
PFHpA_2	363.0 / 169.0	2.28	2199.027765	2500.00	87.96
PFHxS_1	399.0 / 80.0	2.30	2562.982634	2525.00	101.50
PFHxS_2	399.0 / 99.0	2.30	2601.047254	2525.00	103.01
PFOA_1	413.0 / 369.0	2.69	2414.839164	2500.00	96.59
PFOA_2	413.0 / 169.0	2.69	2288.022419	2500.00	91.52
PFNA_1	463.0 / 419.0	3.09	2461.190173	2500.00	98.45
PFNA_2	463.0 / 219.0	3.09	2517.862973	2500.00	100.71
PFOS_1	499.0 / 80.0	3.08	2211.970335	2500.00	88.48
PFOS_2	499.0 / 99.0	3.08	2317.507414	2500.00	92.70
PFDA_1	513.0 / 469.0	3.44	2315.516284	2500.00	92.62
PFDA_2	513.0 / 219.0	3.44	2431.142037	2500.00	97.25
PFUnA_1	563.0 / 519.0	3.76	2445.384516	2500.00	97.82
PFUnA_2	563.0 / 269.0	3.76	2218.955034	2500.00	88.76
PFDoA_1	613.0 / 569.0	4.04	2487.970055	2500.00	99.52
PFDoA_2	613.0 / 319.0	4.04	2463.809113	2500.00	98.55
PFTTrDA_1	663.0 / 619.0	4.28	2581.520469	2500.00	103.26
PFTTrDA_2	663.0 / 169.0	4.28	2605.556865	2500.00	104.22
PFTeDA_1	713.0 / 669.0	4.49	2618.080958	2500.00	104.72
PFTeDA_2	713.0 / 169.0	4.49	2645.330359	2500.00	105.81
NMeFOSAA_1	570.0 / 419.0	3.59	2696.349725	2500.00	107.85
NMeFOSAA_2	570.0 / 512.0	3.59	2810.677429	2500.00	112.43
NEtFOSAA_1	584.0 / 419.0	3.75	2273.071945	2500.00	90.92
NEtFOSAA_2	584.0 / 483.0	3.75	2196.441577	2500.00	87.86

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:16:51	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.10	259.132404	250.00	103.65
d3-MeFOSAA	573.0 / 419.0	3.65	208.974174	250.00	83.59
d5-EtFOSAA	589.0 / 419.0	3.81	206.830753	250.00	82.73
13C5-PFHxA	318.0 / 273.0	1.89	259.924320	250.00	103.97
13C4-PFHpA	367.0 / 322.0	2.31	255.044502	250.00	102.02
13C8-PFOA	421.0 / 376.0	2.73	260.077016	250.00	104.03
13C9-PFNA	472.0 / 427.0	3.13	231.388886	250.00	92.56
13C6-PFDA	519.0 / 474.0	3.49	276.436354	250.00	110.57
13C7-PFUnA	570.0 / 525.0	3.81	284.738017	250.00	113.90
13C2-PFTeDA	715.0 / 670.0	4.57	291.091815	250.00	116.44
13C3-PFBS	302.0 / 99.0	1.55	219.366193	232.25	94.45
13C3-PFHxS	402.0 / 99.0	2.34	221.464127	236.50	93.64
13C8-PFOS	507.0 / 99.0	3.13	250.834474	239.25	104.84

Sample Name	KB76 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:38:12	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFDoA	615.0 / 570.0	4.04	256.341694	250.00	102.54
d3-MeFOSAA	573.0 / 419.0	3.60	178.456423	250.00	71.38
d5-EtFOSAA	589.0 / 419.0	3.76	179.468006	250.00	71.79
13C5-PFHxA	318.0 / 273.0	1.86	235.917680	250.00	94.37
13C4-PFHpA	367.0 / 322.0	2.28	242.401821	250.00	96.96
13C8-PFOA	421.0 / 376.0	2.69	262.212463	250.00	104.88
13C9-PFNA	472.0 / 427.0	3.08	239.637060	250.00	95.85
13C6-PFDA	519.0 / 474.0	3.43	265.216691	250.00	106.09
13C7-PFUnA	570.0 / 525.0	3.75	266.281774	250.00	106.51
13C2-PFTeDA	715.0 / 670.0	4.50	261.638965	250.00	104.66
13C3-PFBS	302.0 / 99.0	1.53	250.521132	232.25	107.87
13C3-PFHxS	402.0 / 99.0	2.30	227.825684	236.50	96.33
13C8-PFOS	507.0 / 99.0	3.08	260.938939	239.25	109.07

Sample Name	KB77 CCV	Injection Vial	22
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:26:52	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C2-PFD <sub>o</sub> A	615.0 / 570.0	4.03	249.826337	250.00	99.93
<del>d3-MeFOSAA</del>	<del>573.0 / 419.0</del>	<del>3.58</del>	<del>164.181555</del>	<del>250.00</del>	<del>65.67</del>
d5-EtFOSAA	589.0 / 419.0	3.75	185.174036	250.00	74.07
13C5-PFH <sub>x</sub> A	318.0 / 273.0	1.86	225.013792	250.00	90.01
13C4-PFH <sub>p</sub> A	367.0 / 322.0	2.27	250.688830	250.00	100.28
13C8-PFOA	421.0 / 376.0	2.68	247.423276	250.00	98.97
13C9-PFNA	472.0 / 427.0	3.07	234.168476	250.00	93.67
13C6-PFDA	519.0 / 474.0	3.43	242.014997	250.00	96.81
13C7-PFUnA	570.0 / 525.0	3.74	247.727401	250.00	99.09
13C2-PFTeDA	715.0 / 670.0	4.49	252.842042	250.00	101.14
13C3-PFBS	302.0 / 99.0	1.53	221.706486	232.25	95.46
13C3-PFH <sub>x</sub> S	402.0 / 99.0	2.29	203.080966	236.50	85.87
13C8-PFOS	507.0 / 99.0	3.07	217.496442	239.25	90.91

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:42:12	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.56	480.181754	505.00	95.09
PFBS_2	298.9 / 99.0	1.56	468.983830	505.00	92.87
PFHxA_1	313.0 / 269.0	1.89	516.342107	505.00	102.25
PFHxA_2	313.0 / 119.0	1.89	511.188841	505.00	101.23
PFHpA_1	363.0 / 319.0	2.31	465.540144	500.00	93.11
PFHpA_2	363.0 / 169.0	2.31	434.396255	500.00	86.88
PFHxS_1	399.0 / 80.0	2.33	490.460095	505.00	97.12
PFHxS_2	399.0 / 99.0	2.33	457.232894	505.00	90.54
PFOA_1	413.0 / 369.0	2.72	501.272436	500.00	100.25
PFOA_2	413.0 / 169.0	2.72	442.370555	500.00	88.47
PFNA_1	463.0 / 419.0	3.12	503.363141	500.00	100.67
PFNA_2	463.0 / 219.0	3.12	553.909764	500.00	110.78
PFOS_1	499.0 / 80.0	3.12	430.029737	500.00	86.01
PFOS_2	499.0 / 99.0	3.12	449.496500	500.00	89.90
PFDA_1	513.0 / 469.0	3.48	439.557947	500.00	87.91
PFDA_2	513.0 / 219.0	3.49	428.340026	500.00	85.67
PFUnA_1	563.0 / 519.0	3.81	513.041559	500.00	102.61
PFUnA_2	563.0 / 269.0	3.81	391.174201	500.00	78.23
PFDoA_1	613.0 / 569.0	4.09	482.037736	500.00	96.41
PFDoA_2	613.0 / 319.0	4.09	521.093163	500.00	104.22
PFTTrDA_1	663.0 / 619.0	4.34	521.997254	500.00	104.40
PFTTrDA_2	663.0 / 169.0	4.34	600.590330	500.00	120.12
PFTTeDA_1	713.0 / 669.0	4.56	532.088410	500.00	106.42
PFTTeDA_2	713.0 / 169.0	4.56	475.981405	500.00	95.20
NMeFOSAA_1	570.0 / 419.0	3.64	487.972830	500.00	97.59
NMeFOSAA_2	570.0 / 512.0	3.64	487.345049	500.00	97.47
NEtFOSAA_1	584.0 / 419.0	3.80	545.866359	500.00	109.17
NEtFOSAA_2	584.0 / 483.0	3.80	519.938890	500.00	103.99
PFBA	213.0 / 169.0	1.16	414.056023	500.00	82.81
PFPeA	263.0 / 219.0	1.49	509.138001	505.00	100.82
PFHpS_1	449.0 / 80.0	2.73	489.146276	500.00	97.83
PFHpS_2	449.0 / 99.0	2.73	461.079294	500.00	92.22
PFDS_1	599.0 / 80.0	3.78	515.442643	505.00	102.07
PFDS_2	599.0 / 99.0	3.78	526.914033	505.00	104.34
4:2FTS_1	327.0 / 307.0	1.83	512.478681	505.00	101.48
4:2FTS_2	327.0 / 80.0	1.83	578.364763	505.00	114.53
6:2FTS_1	427.0 / 407.0	2.68	465.997081	500.00	93.20
6:2FTS_2	427.0 / 81.0	2.68	515.177043	500.00	103.04
8:2FTS_1	527.0 / 507.0	3.46	494.362077	505.00	97.89
8:2FTS_2	527.0 / 487.0	3.46	431.351117	505.00	85.42
PFPeS_1	349.0 / 99.0	1.93	479.110363	500.00	95.82
PFPeS_2	349.0 / 80.0	1.92	479.527271	500.00	95.91
PFNS_1	549.0 / 99.0	3.46	491.480126	505.00	97.32
PFNS_2	549.0 / 80.0	3.46	491.574647	505.00	97.34



Sample Name	KB77 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T20:52:42	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.55	2575.180686	2525.00	101.99
PFBS_2	298.9 / 99.0	1.55	2575.960458	2525.00	102.02
PFHxA_1	313.0 / 269.0	1.87	2515.594541	2525.00	99.63
PFHxA_2	313.0 / 119.0	1.87	2533.572643	2525.00	100.34
PFHpA_1	363.0 / 319.0	2.28	2515.634013	2500.00	100.63
PFHpA_2	363.0 / 169.0	2.28	2480.230269	2500.00	99.21
PFHxS_1	399.0 / 80.0	2.30	2453.646655	2525.00	97.17
PFHxS_2	399.0 / 99.0	2.30	2473.958585	2525.00	97.98
PFOA_1	413.0 / 369.0	2.70	2411.303924	2500.00	96.45
PFOA_2	413.0 / 169.0	2.69	2296.627660	2500.00	91.87
PFNA_1	463.0 / 419.0	3.09	2679.903654	2500.00	107.20
PFNA_2	463.0 / 219.0	3.09	2724.797284	2500.00	108.99
PFOS_1	499.0 / 80.0	3.09	2518.486941	2500.00	100.74
PFOS_2	499.0 / 99.0	3.09	2556.574191	2500.00	102.26
PFDA_1	513.0 / 469.0	3.45	2356.942459	2500.00	94.28
PFDA_2	513.0 / 219.0	3.45	2517.162712	2500.00	100.69
PFUnA_1	563.0 / 519.0	3.77	2363.999277	2500.00	94.56
PFUnA_2	563.0 / 269.0	3.77	2406.954875	2500.00	96.28
PFDoA_1	613.0 / 569.0	4.04	2502.198332	2500.00	100.09
PFDoA_2	613.0 / 319.0	4.04	2552.920745	2500.00	102.12
PFTrDA_1	663.0 / 619.0	4.29	2601.561077	2500.00	104.06
PFTrDA_2	663.0 / 169.0	4.28	2578.643571	2500.00	103.15
PFTeDA_1	713.0 / 669.0	4.50	2543.455599	2500.00	101.74
PFTeDA_2	713.0 / 169.0	4.50	2603.841087	2500.00	104.15
NMeFOSAA_1	570.0 / 419.0	3.60	2524.585816	2500.00	100.98
NMeFOSAA_2	570.0 / 512.0	3.60	2457.152328	2500.00	98.29
NEtFOSAA_1	584.0 / 419.0	3.76	2911.632083	2500.00	116.47
NEtFOSAA_2	584.0 / 483.0	3.76	3093.267708	2500.00	123.73
PFBA	213.0 / 169.0	1.15	2561.371291	2500.00	102.45
PFPeA	263.0 / 219.0	1.47	2537.946629	2525.00	100.51
PFHpS_1	449.0 / 80.0	2.70	2292.886097	2500.00	91.72
PFHpS_2	449.0 / 99.0	2.70	2387.857041	2500.00	95.51
PFDS_1	599.0 / 80.0	3.74	2505.105018	2525.00	99.21
PFDS_2	599.0 / 99.0	3.74	2635.570690	2525.00	104.38
4:2FTS_1	327.0 / 307.0	1.81	2606.672552	2525.00	103.23
4:2FTS_2	327.0 / 80.0	1.81	3049.230875	2525.00	120.76
6:2FTS_1	427.0 / 407.0	2.66	2464.848611	2500.00	98.59
6:2FTS_2	427.0 / 81.0	2.65	2615.378121	2500.00	104.62
8:2FTS_1	527.0 / 507.0	3.42	2322.969346	2525.00	92.00
8:2FTS_2	527.0 / 487.0	3.42	2245.185277	2525.00	88.92
PFPeS_1	349.0 / 99.0	1.91	2434.032230	2500.00	97.36
PFPeS_2	349.0 / 80.0	1.90	2271.372092	2500.00	90.85
PFNS_1	549.0 / 99.0	3.42	2430.329827	2525.00	96.25
PFNS_2	549.0 / 80.0	3.42	2550.267094	2525.00	101.00

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:42:12	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.16	237.378592	250.00	94.95
13C2-PFDoA	615.0 / 570.0	4.08	263.554566	250.00	105.42
d3-MeFOSAA	573.0 / 419.0	3.63	235.111132	250.00	94.04
d5-EtFOSAA	589.0 / 419.0	3.79	228.368242	250.00	91.35
13C5-PFPeA	268.0 / 223.0	1.48	253.481776	250.00	101.39
13C5-PFHxA	318.0 / 273.0	1.88	242.033838	250.00	96.81
13C4-PFHpA	367.0 / 322.0	2.30	263.753625	250.00	105.50
13C8-PFOA	421.0 / 376.0	2.71	243.608958	250.00	97.44
13C9-PFNA	472.0 / 427.0	3.11	228.438541	250.00	91.38
13C6-PFDA	519.0 / 474.0	3.47	255.079514	250.00	102.03
13C7-PFUnA	570.0 / 525.0	3.79	247.141762	250.00	98.86
13C2-PFTeDA	715.0 / 670.0	4.55	268.546220	250.00	107.42
13C3-PFBS	302.0 / 99.0	1.54	246.268574	232.25	106.04
13C3-PFHxS	402.0 / 99.0	2.32	259.379871	236.50	109.67
13C8-PFOS	507.0 / 99.0	3.11	273.378181	239.25	114.26
13C2-4:2FTS	329.0 / 81.0	1.83	256.774909	233.75	109.85
13C2-6:2FTS	429.0 / 81.0	2.68	253.354787	237.25	106.79
13C2-8:2FTS	529.0 / 81.0	3.46	255.763069	239.50	106.79

Sample Name	KB77 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T20:52:42	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.15	239.221068	250.00	95.69
13C2-PFDoA	615.0 / 570.0	4.03	271.537599	250.00	108.62
d3-MeFOSAA	573.0 / 419.0	3.59	264.292884	250.00	105.72
d5-EtFOSAA	589.0 / 419.0	3.75	206.321331	250.00	82.53
13C5-PFPeA	268.0 / 223.0	1.47	241.335187	250.00	96.53
13C5-PFHxA	318.0 / 273.0	1.86	246.327512	250.00	98.53
13C4-PFHpA	367.0 / 322.0	2.27	235.096437	250.00	94.04
13C8-PFOA	421.0 / 376.0	2.68	241.674450	250.00	96.67
13C9-PFNA	472.0 / 427.0	3.08	211.679042	250.00	84.67
13C6-PFDA	519.0 / 474.0	3.43	247.747380	250.00	99.10
13C7-PFUnA	570.0 / 525.0	3.75	260.567033	250.00	104.23
13C2-PFTeDA	715.0 / 670.0	4.49	303.133395	250.00	121.25
13C3-PFBS	302.0 / 99.0	1.53	243.523812	232.25	104.85
13C3-PFHxS	402.0 / 99.0	2.30	245.936218	236.50	103.99
13C8-PFOS	507.0 / 99.0	3.08	229.756511	239.25	96.03
13C2-4:2FTS	329.0 / 81.0	1.81	213.833613	233.75	91.48
13C2-6:2FTS	429.0 / 81.0	2.65	247.296819	237.25	104.23
13C2-8:2FTS	529.0 / 81.0	3.42	283.240640	239.50	118.26

Sample Name	KB81 ICC	Injection Vial	10
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:13:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	299608.43	877.420602	544.9	false
PFBS 2	298.9 / 99.0	1.56	83942.08	838.659062	365.9	false
PFHxA 1	313.0 / 269.0	1.89	241930.51	1006.652936	19.8	false
PFHxA 2	313.0 / 119.0	1.89	16403.84	896.376115	16.0	false
PFHpA 1	363.0 / 319.0	2.30	215911.99	856.292979	126.4	false
PFHpA 2	363.0 / 169.0	2.29	5561.78	976.724688	99.7	false
PFHxS 1	399.0 / 80.0	2.32	361966.55	998.233289	454.9	false
PFHxS 2	399.0 / 99.0	2.32	100883.75	992.688608	416.4	false
PFOA 1	413.0 / 369.0	2.71	338169.16	930.879127	304.4	false
PFOA 2	413.0 / 169.0	2.71	20580.91	872.168076	223.7	false
PFNA 1	463.0 / 419.0	3.11	356729.03	1034.052055	304.0	false
PFNA 2	463.0 / 219.0	3.10	110066.88	1037.625087	466.5	false
PFOS 1	499.0 / 80.0	3.10	539708.03	906.626239	343.1	false
PFOS 2	499.0 / 99.0	3.10	95211.86	919.881718	450.1	false
PFDA 1	513.0 / 469.0	3.46	380336.88	983.979238	327.0	false
PFDA 2	513.0 / 219.0	3.46	15587.84	976.593938	361.3	false
PFUnA 1	563.0 / 519.0	3.79	349720.15	923.159866	376.6	false
PFUnA 2	563.0 / 269.0	3.79	18202.70	975.741234	188.3	false
PFDaA 1	613.0 / 569.0	4.07	341302.82	980.552902	460.6	false
PFDaA 2	613.0 / 319.0	4.07	51304.06	934.947666	412.2	false
PFTrDA 1	663.0 / 619.0	4.32	300565.45	1073.075185	751.7	false
PFTrDA 2	663.0 / 169.0	4.32	19250.55	1041.820014	533.2	false
PFTeDA 1	713.0 / 669.0	4.54	326564.00	1020.055697	1259.1	false
PFTeDA 2	713.0 / 169.0	4.54	16770.44	1079.815842	804.1	false
NMeFOSAA 1	570.0 / 419.0	3.62	66944.31	945.129517	505.3	false
NMeFOSAA 2	570.0 / 512.0	3.62	38615.63	965.108458	1105.4	false
NEtFOSAA 1	584.0 / 419.0	3.78	66942.43	1244.646852	673.7	true
NEtFOSAA 2	584.0 / 483.0	3.78	4011.16	1233.660110	1226.3	false

Sample Name	KB76 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T00:51:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.54	349885.03	1056.319317	487.6	false
PFBS 2	298.9 / 99.0	1.54	103527.88	1066.164680	453.7	false
PFHxA 1	313.0 / 269.0	1.86	269056.02	1006.310537	23.7	false
PFHxA 2	313.0 / 119.0	1.86	20921.57	1035.099395	23.5	false
PFHpA 1	363.0 / 319.0	2.27	247200.20	973.328737	128.7	false
PFHpA 2	363.0 / 169.0	2.27	4603.37	784.329237	94.5	false
PFHxS 1	399.0 / 80.0	2.29	397851.88	964.945274	337.3	false
PFHxS 2	399.0 / 99.0	2.29	119077.08	1032.158976	559.9	false
PFOA 1	413.0 / 369.0	2.68	370736.52	961.508595	334.9	false
PFOA 2	413.0 / 169.0	2.68	24738.80	989.138979	323.7	false
PFNA 1	463.0 / 419.0	3.08	365479.14	1095.381999	403.9	false
PFNA 2	463.0 / 219.0	3.08	112755.24	1098.825745	527.1	false
PFOS 1	499.0 / 80.0	3.08	577424.99	1004.719445	347.6	false
PFOS 2	499.0 / 99.0	3.08	100165.87	1002.557518	494.7	false
PFDA 1	513.0 / 469.0	3.43	452061.54	968.352330	415.4	false
PFDA 2	513.0 / 219.0	3.43	18099.86	938.318692	323.7	false
PFUnA 1	563.0 / 519.0	3.76	413539.65	1013.433490	418.1	false
PFUnA 2	563.0 / 269.0	3.76	24108.66	1198.562024	285.1	false
PFDaA 1	613.0 / 569.0	4.04	391703.88	1102.309135	400.3	false
PFDaA 2	613.0 / 319.0	4.04	61042.54	1092.747202	439.6	false
PFTrDA 1	663.0 / 619.0	4.29	328809.05	1057.215163	797.4	false
PFTrDA 2	663.0 / 169.0	4.29	23239.11	1136.472694	427.1	false
PFTeDA 1	713.0 / 669.0	4.50	374613.66	1055.733551	1351.5	false
PFTeDA 2	713.0 / 169.0	4.50	19406.58	1127.902826	725.0	false
NMeFOSAA 1	570.0 / 419.0	3.59	71259.73	1084.449796	1591.8	false
NMeFOSAA 2	570.0 / 512.0	3.59	39491.25	1066.267565	1206.5	false
NEtFOSAA 1	584.0 / 419.0	3.75	71151.74	1064.273503	725.4	false
NEtFOSAA 2	584.0 / 483.0	3.75	4009.95	981.674460	791.1	false

Sample Name	KB77 CCV	Injection Vial	39
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:39:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.54	834307.48	2476.493681	914.7	false
PFBS 2	298.9 / 99.0	1.54	244795.27	2476.074671	748.4	false
PFHxA 1	313.0 / 269.0	1.86	624245.37	2510.653648	42.7	false
PFHxA 2	313.0 / 119.0	1.86	46231.71	2479.364120	39.2	false
PFHpA 1	363.0 / 319.0	2.27	612534.76	2395.275264	227.5	false
PFHpA 2	363.0 / 169.0	2.27	12591.86	2256.977178	239.0	false
PFHxS 1	399.0 / 80.0	2.30	950214.67	2684.494221	600.1	false
PFHxS 2	399.0 / 99.0	2.30	271784.48	2749.353159	701.6	false
PFOA 1	413.0 / 369.0	2.68	906197.96	2535.877984	448.5	false
PFOA 2	413.0 / 169.0	2.69	59360.98	2558.806222	398.1	false
PFNA 1	463.0 / 419.0	3.08	841489.87	2735.306887	467.9	false
PFNA 2	463.0 / 219.0	3.08	265612.19	2802.152725	776.3	false
PFOS 1	499.0 / 80.0	3.08	1416251.21	2573.135307	470.1	false
PFOS 2	499.0 / 99.0	3.08	251342.88	2629.041191	756.6	false
PFDA 1	513.0 / 469.0	3.43	1022111.48	2634.707149	682.2	false
PFDA 2	513.0 / 219.0	3.43	42010.78	2626.500736	352.2	false
PFUnA 1	563.0 / 519.0	3.76	976924.07	2427.332986	502.4	false
PFUnA 2	563.0 / 269.0	3.76	51998.54	2605.931838	363.6	false
PFDaA 1	613.0 / 569.0	4.04	861595.27	2425.673764	627.0	false
PFDaA 2	613.0 / 319.0	4.04	133561.65	2405.471810	563.8	false
PFTrDA 1	663.0 / 619.0	4.29	783762.68	2633.014034	1110.8	false
PFTrDA 2	663.0 / 169.0	4.28	48569.51	2478.680315	620.5	false
PFTeDA 1	713.0 / 669.0	4.50	853262.67	2522.651992	1934.7	false
PFTeDA 2	713.0 / 169.0	4.50	43967.21	2684.006395	988.9	false
NMeFOSAA 1	570.0 / 419.0	3.59	172789.85	2920.321849	1032.7	false
NMeFOSAA 2	570.0 / 512.0	3.59	94283.51	2907.247697	820.2	false
NEtFOSAA 1	584.0 / 419.0	3.75	160189.61	2828.339817	934.8	false
NEtFOSAA 2	584.0 / 483.0	3.75	9825.26	2935.507822	476.2	false

Sample Name	KB76 CCV	Injection Vial	50
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:39:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.54	347859.55	1064.774324	582.5	false
PFBS 2	298.9 / 99.0	1.54	106324.11	1110.259181	447.4	false
PFHxA 1	313.0 / 269.0	1.86	273660.36	1062.204498	22.8	false
PFHxA 2	313.0 / 119.0	1.86	20537.63	1053.556030	20.8	false
PFHpA 1	363.0 / 319.0	2.27	246282.82	1001.060889	129.9	false
PFHpA 2	363.0 / 169.0	2.27	5431.91	974.359300	86.5	false
PFHxS 1	399.0 / 80.0	2.29	431179.04	1208.070819	348.3	false
PFHxS 2	399.0 / 99.0	2.29	122218.14	1223.342338	322.7	false
PFOA 1	413.0 / 369.0	2.68	398510.07	1082.222256	219.1	false
PFOA 2	413.0 / 169.0	2.68	26226.36	1097.667766	238.8	false
PFNA 1	463.0 / 419.0	3.08	335608.60	1092.481337	336.4	false
PFNA 2	463.0 / 219.0	3.08	108101.52	1145.484024	380.2	false
PFOS 1	499.0 / 80.0	3.08	621649.23	965.360306	333.1	false
PFOS 2	499.0 / 99.0	3.08	111978.72	1000.204180	631.1	false
PFDA 1	513.0 / 469.0	3.43	406894.89	975.378369	379.4	false
PFDA 2	513.0 / 219.0	3.43	18159.60	1056.258982	361.9	false
PFUnA 1	563.0 / 519.0	3.75	393539.96	982.868547	357.9	false
PFUnA 2	563.0 / 269.0	3.75	21671.44	1098.356861	219.4	false
PFDaA 1	613.0 / 569.0	4.04	376770.01	1070.465213	504.4	false
PFDaA 2	613.0 / 319.0	4.04	58231.25	1051.766644	459.5	false
PFTrDA 1	663.0 / 619.0	4.28	332230.61	1080.650200	690.2	false
PFTrDA 2	663.0 / 169.0	4.28	23725.51	1174.183710	415.8	false
PFTeDA 1	713.0 / 669.0	4.49	362487.19	1031.829464	1348.1	false
PFTeDA 2	713.0 / 169.0	4.49	17697.32	1036.080813	694.3	false
NMeFOSAA 1	570.0 / 419.0	3.59	68759.01	1086.716231	1607.7	false
NMeFOSAA 2	570.0 / 512.0	3.58	36921.00	1032.027701	883.5	false
NEtFOSAA 1	584.0 / 419.0	3.75	64709.29	1024.580411	736.9	false
NEtFOSAA 2	584.0 / 483.0	3.75	4513.58	1182.379184	306.7	false

Sample Name	KB77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:38:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.54	840008.15	2433.508563	808.6	false
PFBS 2	298.9 / 99.0	1.54	255900.59	2526.390479	703.5	false
PFHxA 1	313.0 / 269.0	1.86	622296.40	2422.898324	39.9	false
PFHxA 2	313.0 / 119.0	1.86	46535.34	2415.845798	36.8	false
PFHpA 1	363.0 / 319.0	2.27	598018.02	2477.785674	226.2	false
PFHpA 2	363.0 / 169.0	2.27	11619.40	2204.111531	177.7	false
PFHxS 1	399.0 / 80.0	2.30	979747.21	2823.531918	564.4	false
PFHxS 2	399.0 / 99.0	2.29	268715.91	2772.111565	597.1	false
PFOA 1	413.0 / 369.0	2.68	887496.51	2389.583284	340.5	false
PFOA 2	413.0 / 169.0	2.68	57214.39	2372.788322	331.3	false
PFNA 1	463.0 / 419.0	3.08	852092.85	2640.226568	505.0	false
PFNA 2	463.0 / 219.0	3.08	241731.71	2428.157949	851.4	false
PFOS 1	499.0 / 80.0	3.08	1414321.22	2476.722748	474.5	false
PFOS 2	499.0 / 99.0	3.07	251040.36	2530.883091	733.3	false
PFDA 1	513.0 / 469.0	3.43	1000628.54	2416.253502	606.6	false
PFDA 2	513.0 / 219.0	3.43	44095.63	2584.057755	532.9	false
PFUnA 1	563.0 / 519.0	3.75	991937.58	2504.284496	485.9	false
PFUnA 2	563.0 / 269.0	3.75	50312.34	2561.674130	329.2	false
PFDaA 1	613.0 / 569.0	4.03	910443.12	2576.923128	636.3	false
PFDaA 2	613.0 / 319.0	4.03	146033.23	2646.337396	660.1	false
PFTrDA 1	663.0 / 619.0	4.28	792240.08	2664.806832	1028.1	false
PFTrDA 2	663.0 / 169.0	4.28	52492.52	2684.897605	554.1	false
PFTeDA 1	713.0 / 669.0	4.49	878868.10	2602.518630	1972.2	false
PFTeDA 2	713.0 / 169.0	4.49	43498.91	2657.862790	1153.4	false
NMeFOSAA 1	570.0 / 419.0	3.58	171358.67	3080.939829	2455.6	false
NMeFOSAA 2	570.0 / 512.0	3.58	89026.30	2917.757719	794.8	false
NEtFOSAA 1	584.0 / 419.0	3.74	164423.65	2413.458015	901.0	false
NEtFOSAA 2	584.0 / 483.0	3.75	9103.06	2248.358117	1723.5	false



Sample Name	KB76 CCV	Injection Vial	18
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:38:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.54	349908.03	1089.333034	517.3	false
PFBS 2	298.9 / 99.0	1.54	101378.19	1076.449933	457.3	false
PFHxA 1	313.0 / 269.0	1.86	251381.63	1071.430545	19.8	false
PFHxA 2	313.0 / 119.0	1.86	19911.00	1124.564957	19.6	false
PFHpA 1	363.0 / 319.0	2.27	237606.49	1054.412537	122.8	false
PFHpA 2	363.0 / 169.0	2.27	5239.81	1029.827292	114.4	false
PFHxS 1	399.0 / 80.0	2.29	419401.12	1303.929122	331.9	false
PFHxS 2	399.0 / 99.0	2.29	116389.69	1292.604282	424.1	false
PFOA 1	413.0 / 369.0	2.67	390642.51	1139.480685	243.6	false
PFOA 2	413.0 / 169.0	2.67	24596.76	1105.089410	203.7	false
PFNA 1	463.0 / 419.0	3.07	311222.58	1035.910443	318.4	false
PFNA 2	463.0 / 219.0	3.07	102654.03	1113.225811	344.6	false
PFOS 1	499.0 / 80.0	3.07	601209.09	1105.462548	263.2	false
PFOS 2	499.0 / 99.0	3.07	110552.31	1169.427416	417.9	false
PFDA 1	513.0 / 469.0	3.42	403243.13	1023.135798	385.3	false
PFDA 2	513.0 / 219.0	3.42	15530.19	952.883568	257.8	false
PFUnA 1	563.0 / 519.0	3.74	410508.90	1060.816910	359.1	false
PFUnA 2	563.0 / 269.0	3.74	21482.78	1125.736357	251.5	false
PFDaA 1	613.0 / 569.0	4.03	348176.79	1055.326292	509.7	false
PFDaA 2	613.0 / 319.0	4.02	53595.34	1032.386980	424.6	false
PFTrDA 1	663.0 / 619.0	4.27	322581.06	1126.018812	806.6	false
PFTrDA 2	663.0 / 169.0	4.27	20639.93	1092.318863	435.9	false
PFTeDA 1	713.0 / 669.0	4.49	334535.64	1020.215788	1246.0	false
PFTeDA 2	713.0 / 169.0	4.48	16132.47	1011.215700	628.8	false
NMeFOSAA 1	570.0 / 419.0	3.58	67598.54	941.492514	1093.4	false
NMeFOSAA 2	570.0 / 512.0	3.58	36007.39	879.347143	1152.7	false
NEtFOSAA 1	584.0 / 419.0	3.74	67631.35	1085.416454	841.0	false
NEtFOSAA 2	584.0 / 483.0	3.74	3817.68	1003.886465	302.3	false

Sample Name	KB77 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:38:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.53	850993.21	2396.253264	808.6	false
PFBS 2	298.9 / 99.0	1.53	254490.94	2442.036299	783.0	false
PFHxA 1	313.0 / 269.0	1.85	655384.63	2631.362717	38.3	false
PFHxA 2	313.0 / 119.0	1.85	48640.57	2605.004459	33.8	false
PFHpA 1	363.0 / 319.0	2.26	573650.55	2447.479990	225.6	false
PFHpA 2	363.0 / 169.0	2.26	11633.37	2275.359578	211.3	false
PFHxS 1	399.0 / 80.0	2.28	919692.74	2615.739280	548.5	false
PFHxS 2	399.0 / 99.0	2.28	264708.53	2695.820217	717.4	false
PFOA 1	413.0 / 369.0	2.67	901670.55	2407.712427	342.6	false
PFOA 2	413.0 / 169.0	2.67	56377.19	2318.334899	274.1	false
PFNA 1	463.0 / 419.0	3.06	820429.69	2832.815035	454.8	false
PFNA 2	463.0 / 219.0	3.06	263765.65	2956.215206	491.3	false
PFOS 1	499.0 / 80.0	3.06	1431857.58	2585.089707	470.7	false
PFOS 2	499.0 / 99.0	3.06	250094.50	2599.504268	627.2	false
PFDA 1	513.0 / 469.0	3.42	1034590.50	2482.448650	641.1	false
PFDA 2	513.0 / 219.0	3.42	41448.14	2411.390290	638.3	false
PFUnA 1	563.0 / 519.0	3.74	1029500.15	2558.541561	487.6	false
PFUnA 2	563.0 / 269.0	3.74	51558.76	2583.937045	360.3	false
PFDaA 1	613.0 / 569.0	4.02	905607.84	2698.577030	633.7	false
PFDaA 2	613.0 / 319.0	4.02	143888.48	2745.260730	602.6	false
PFTrDA 1	663.0 / 619.0	4.27	784941.74	2604.198175	1161.1	false
PFTrDA 2	663.0 / 169.0	4.26	51407.03	2592.951623	607.8	false
PFTeDA 1	713.0 / 669.0	4.48	866714.45	2531.066241	1843.5	false
PFTeDA 2	713.0 / 169.0	4.48	42703.60	2572.872002	1053.1	false
NMeFOSAA 1	570.0 / 419.0	3.58	169282.86	2637.987405	912.4	false
NMeFOSAA 2	570.0 / 512.0	3.57	95164.44	2703.920079	753.3	false
NEtFOSAA 1	584.0 / 419.0	3.73	166668.85	2771.012644	971.8	false
NEtFOSAA 2	584.0 / 483.0	3.73	11285.75	3180.573437	655.3	true

Sample Name	KB76 CCV	Injection Vial	33
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:22:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.54	203571.90	1000.777598	354.3	false
PFBS 2	298.9 / 99.0	1.54	61158.89	1025.754242	327.7	false
PFHxA 1	313.0 / 269.0	1.86	153502.46	957.919919	10.7	false
PFHxA 2	313.0 / 119.0	1.86	11678.13	962.187337	11.6	false
PFHpA 1	363.0 / 319.0	2.27	147729.51	1008.164181	91.3	false
PFHpA 2	363.0 / 169.0	2.27	3303.15	996.522008	104.2	false
PFHxS 1	399.0 / 80.0	2.29	239616.25	1068.715508	266.0	false
PFHxS 2	399.0 / 99.0	2.29	74707.48	1192.296643	300.9	false
PFOA 1	413.0 / 369.0	2.67	245090.68	1123.706465	189.3	false
PFOA 2	413.0 / 169.0	2.67	14838.66	1047.332543	160.1	false
PFNA 1	463.0 / 419.0	3.07	216876.44	1065.832279	236.5	false
PFNA 2	463.0 / 219.0	3.07	64080.17	1022.850924	228.4	false
PFOS 1	499.0 / 80.0	3.06	382981.49	1115.078654	268.2	false
PFOS 2	499.0 / 99.0	3.06	70997.68	1189.220781	394.4	false
PFDA 1	513.0 / 469.0	3.42	252128.88	944.269083	350.4	false
PFDA 2	513.0 / 219.0	3.42	8933.01	806.869653	257.3	false
PFUnA 1	563.0 / 519.0	3.74	255494.17	1082.809569	281.0	false
PFUnA 2	563.0 / 269.0	3.74	13414.45	1152.625907	247.0	false
PFDaA 1	613.0 / 569.0	4.02	222812.20	981.546865	395.2	false
PFDaA 2	613.0 / 319.0	4.02	38218.66	1073.710594	363.0	false
PFTrDA 1	663.0 / 619.0	4.26	197509.03	1067.893500	628.3	false
PFTrDA 2	663.0 / 169.0	4.26	13490.16	1108.121509	349.6	false
PFTeDA 1	713.0 / 669.0	4.47	213052.56	1007.488087	1204.9	false
PFTeDA 2	713.0 / 169.0	4.47	10480.23	1019.523253	557.1	false
NMeFOSAA 1	570.0 / 419.0	3.57	41675.62	1115.171799	498.8	false
NMeFOSAA 2	570.0 / 512.0	3.58	22562.76	1070.017497	319.2	false
NEtFOSAA 1	584.0 / 419.0	3.73	42109.78	914.736115	494.7	false
NEtFOSAA 2	584.0 / 483.0	3.73	2850.61	1017.712184	929.8	false

Sample Name	KB81 ICC	Injection Vial	10
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:13:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.06	93406.68	231.611603	1689.5	false
d3-MeFOSAA	573.0 / 419.0	3.61	17579.80	235.098552	175.3	false
d5-EtFOSAA	589.0 / 419.0	3.78	14383.26	176.181506	200.6	false
13C5-PFHxA	318.0 / 273.0	1.88	59013.59	233.905404	685.2	false
13C4-PFHpA	367.0 / 322.0	2.29	70279.06	244.843738	1118.6	false
13C8-PFOA	421.0 / 376.0	2.70	89115.92	255.222211	9011.3	false
13C9-PFNA	472.0 / 427.0	3.09	100916.15	253.115276	1888.1	false
13C6-PFDA	519.0 / 474.0	3.45	90930.64	223.796875	1073.3	false
13C7-PFUnA	570.0 / 525.0	3.77	89293.12	237.910809	829.4	false
13C2-PFTeDA	715.0 / 670.0	4.54	71262.97	218.862217	1767.1	false
13C3-PFBS	302.0 / 99.0	1.55	27104.45	206.860264	624.1	false
13C3-PFHxS	402.0 / 99.0	2.31	24951.95	210.154754	577.2	false
13C8-PFOS	507.0 / 99.0	3.09	29875.11	222.736043	244.5	false

Sample Name	KB76 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T00:51:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	95664.50	229.245135	1246.3	false
d3-MeFOSAA	573.0 / 419.0	3.58	16446.60	245.442059	225.7	false
d5-EtFOSAA	589.0 / 419.0	3.75	18371.60	251.123119	218.9	false
13C5-PFHxA	318.0 / 273.0	1.85	65651.87	244.385402	719.7	false
13C4-PFHpA	367.0 / 322.0	2.26	70975.97	232.227890	1320.6	false
13C8-PFOA	421.0 / 376.0	2.67	94634.29	254.537446	1392.9	false
13C9-PFNA	472.0 / 427.0	3.07	97770.66	230.306517	686.4	false
13C6-PFDA	519.0 / 474.0	3.42	109784.66	261.127375	859.1	false
13C7-PFUnA	570.0 / 525.0	3.74	96273.43	247.896014	1059.8	false
13C2-PFTeDA	715.0 / 670.0	4.50	79092.70	234.752494	1739.5	false
13C3-PFBS	302.0 / 99.0	1.52	26320.16	224.161896	625.7	false
13C3-PFHxS	402.0 / 99.0	2.28	28510.03	267.959477	495.6	false
13C8-PFOS	507.0 / 99.0	3.06	28263.43	235.148719	316.1	false

Sample Name	KB77 CCV	Injection Vial	39
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:39:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	96987.41	242.391021	1092.1	false
d3-MeFOSAA	573.0 / 419.0	3.59	15243.41	221.801315	167.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	15474.61	206.238002	220.5	false
13C5-PFHxA	318.0 / 273.0	1.85	62266.50	246.386191	656.0	false
13C4-PFHpA	367.0 / 322.0	2.26	72298.63	251.458822	870.5	false
13C8-PFOA	421.0 / 376.0	2.67	88559.70	253.205427	366.6	false
13C9-PFNA	472.0 / 427.0	3.07	91744.04	229.725529	961.9	false
13C6-PFDA	519.0 / 474.0	3.42	92505.35	229.471855	5481.1	false
13C7-PFUnA	570.0 / 525.0	3.74	95492.16	256.438194	943.7	false
13C2-PFTeDA	715.0 / 670.0	4.49	77129.39	238.751213	1604.9	false
13C3-PFBS	302.0 / 99.0	1.52	26850.67	222.965455	735.2	false
13C3-PFHxS	402.0 / 99.0	2.28	24880.01	227.998180	473.6	false
13C8-PFOS	507.0 / 99.0	3.06	27883.36	226.189354	281.5	false

Sample Name	KB76 CCV	Injection Vial	50
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:39:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	94681.99	247.852172	1005.0	false
d3-MeFOSAA	573.0 / 419.0	3.58	15939.27	231.171005	278.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	17056.77	226.583640	215.4	false
13C5-PFHxA	318.0 / 273.0	1.85	63370.08	255.852288	707.3	false
13C4-PFHpA	367.0 / 322.0	2.26	68790.62	244.123253	841.3	false
13C8-PFOA	421.0 / 376.0	2.67	90533.99	264.114157	1199.8	false
13C9-PFNA	472.0 / 427.0	3.06	90011.32	229.970264	1709.2	false
13C6-PFDA	519.0 / 474.0	3.42	98119.37	254.942091	1215.9	false
13C7-PFUnA	570.0 / 525.0	3.74	94438.14	265.635787	731.5	false
13C2-PFTeDA	715.0 / 670.0	4.49	78235.26	253.660251	1453.2	false
13C3-PFBS	302.0 / 99.0	1.52	25961.09	214.876133	665.1	false
13C3-PFHxS	402.0 / 99.0	2.28	24746.46	226.035494	452.3	false
13C8-PFOS	507.0 / 99.0	3.06	31359.62	253.559946	278.6	false

Sample Name	KB77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:38:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	96538.07	252.919212	1084.8	false
d3-MeFOSAA	573.0 / 419.0	3.58	14248.48	194.024277	177.3	false
d5-EtFOSAA	589.0 / 419.0	3.74	18652.94	232.649291	284.5	false
13C5-PFHxA	318.0 / 273.0	1.85	64289.33	254.444613	849.4	false
13C4-PFHpA	367.0 / 322.0	2.26	68252.84	237.437857	835.9	false
13C8-PFOA	421.0 / 376.0	2.67	92008.49	263.122063	48971.3	false
13C9-PFNA	472.0 / 427.0	3.06	96204.58	240.945965	1516.7	false
13C6-PFDA	519.0 / 474.0	3.42	98676.28	256.600427	1114.4	false
13C7-PFUnA	570.0 / 525.0	3.73	93992.05	264.598955	1167.7	false
13C2-PFTeDA	715.0 / 670.0	4.49	77045.14	250.007479	1350.2	false
13C3-PFBS	302.0 / 99.0	1.52	27510.57	213.790086	638.2	false
13C3-PFHxS	402.0 / 99.0	2.29	24362.43	208.932885	583.0	false
13C8-PFOS	507.0 / 99.0	3.06	28270.02	214.614350	280.3	false



Sample Name	KB76 CCV	Injection Vial	18
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:38:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.01	88717.95	228.321532	1041.6	false
d3-MeFOSAA	573.0 / 419.0	3.57	17668.72	269.221559	230.8	false
d5-EtFOSAA	589.0 / 419.0	3.73	16975.76	236.919450	227.0	false
13C5-PFHxA	318.0 / 273.0	1.84	57725.21	232.502846	583.0	false
13C4-PFHpA	367.0 / 322.0	2.25	63069.36	223.283215	704.0	false
13C8-PFOA	421.0 / 376.0	2.66	84345.69	245.471270	975.0	false
13C9-PFNA	472.0 / 427.0	3.06	87889.58	224.011180	1374.0	false
13C6-PFDA	519.0 / 474.0	3.41	92793.58	237.036214	862.9	false
13C7-PFUnA	570.0 / 525.0	3.73	91338.57	252.582549	920.0	false
13C2-PFTeDA	715.0 / 670.0	4.48	72991.55	232.665745	1802.0	false
13C3-PFBS	302.0 / 99.0	1.52	25528.23	221.986109	813.5	false
13C3-PFHxS	402.0 / 99.0	2.28	22311.11	214.103908	482.2	false
13C8-PFOS	507.0 / 99.0	3.05	26901.06	228.517350	328.7	false

Sample Name	KB77 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:38:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.01	91742.73	239.653030	866.4	false
d3-MeFOSAA	573.0 / 419.0	3.57	16364.80	236.858204	207.7	false
d5-EtFOSAA	589.0 / 419.0	3.73	16716.34	221.608279	246.6	false
13C5-PFHxA	318.0 / 273.0	1.84	62411.77	243.873350	767.5	false
13C4-PFHpA	367.0 / 322.0	2.25	66276.10	227.630093	671.2	false
13C8-PFOA	421.0 / 376.0	2.66	92778.49	261.951048	1428.0	false
13C9-PFNA	472.0 / 427.0	3.05	86404.23	213.649740	1698.9	false
13C6-PFDA	519.0 / 474.0	3.41	99328.30	257.540575	866.6	false
13C7-PFUnA	570.0 / 525.0	3.73	95490.60	268.031385	870.3	false
13C2-PFTeDA	715.0 / 670.0	4.47	78089.19	252.654306	1226.0	false
13C3-PFBS	302.0 / 99.0	1.51	28302.64	233.778827	746.2	false
13C3-PFHxS	402.0 / 99.0	2.27	24705.62	225.202016	436.6	false
13C8-PFOS	507.0 / 99.0	3.05	27205.02	219.518934	328.2	false

Sample Name	KB76 CCV	Injection Vial	33
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:22:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.01	60918.57	238.560244	964.2	false
d3-MeFOSAA	573.0 / 419.0	3.57	9267.03	212.383634	164.1	false
d5-EtFOSAA	589.0 / 419.0	3.72	12446.63	261.275783	181.7	false
13C5-PFHxA	318.0 / 273.0	1.85	39283.43	262.246414	638.5	false
13C4-PFHpA	367.0 / 322.0	2.25	40977.87	240.449823	804.9	false
13C8-PFOA	421.0 / 376.0	2.66	53651.80	258.797131	741.1	false
13C9-PFNA	472.0 / 427.0	3.05	59577.97	251.683903	1962.8	false
13C6-PFDA	519.0 / 474.0	3.40	62757.15	243.934337	806.7	false
13C7-PFUnA	570.0 / 525.0	3.72	55703.49	234.392961	1270.2	false
13C2-PFTeDA	715.0 / 670.0	4.47	47048.92	228.203597	1323.3	false
13C3-PFBS	302.0 / 99.0	1.52	16158.92	211.345646	496.5	false
13C3-PFHxS	402.0 / 99.0	2.28	15875.99	229.150108	455.2	false
13C8-PFOS	507.0 / 99.0	3.05	16700.36	213.378841	237.7	false

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:16:51	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.57	1.69e5	502.963491	322.3	false
PFBS 2	298.9 / 99.0	1.57	4.88e4	496.453145	291.2	false
PFHxA 1	313.0 / 269.0	1.91	1.27e5	480.896992	53.4	false
PFHxA 2	313.0 / 119.0	1.91	9.85e3	485.682826	37.8	false
PFHpA 1	363.0 / 319.0	2.33	1.23e5	481.224420	144.6	false
PFHpA 2	363.0 / 169.0	2.32	2.81e3	452.441038	71.0	false
PFHxS 1	399.0 / 80.0	2.35	1.90e5	518.322649	373.4	false
PFHxS 2	399.0 / 99.0	2.35	5.36e4	520.806905	306.2	false
PFOA 1	413.0 / 369.0	2.74	1.62e5	450.789129	221.4	false
PFOA 2	413.0 / 169.0	2.74	1.27e4	546.555914	171.1	false
PFNA 1	463.0 / 419.0	3.14	1.54e5	494.521439	245.9	false
PFNA 2	463.0 / 219.0	3.14	4.83e4	507.732683	267.6	false
PFOS 1	499.0 / 80.0	3.14	2.71e5	441.273324	138.3	false
PFOS 2	499.0 / 99.0	3.14	5.04e4	470.431215	328.2	false
PFDA 1	513.0 / 469.0	3.50	1.93e5	451.709750	246.1	false
PFDA 2	513.0 / 219.0	3.50	9.75e3	556.902124	140.1	false
PFUnA 1	563.0 / 519.0	3.83	1.83e5	457.038917	282.3	false
PFUnA 2	563.0 / 269.0	3.83	1.14e4	585.085583	150.5	false
PFDaA 1	613.0 / 569.0	4.11	1.77e5	507.066970	383.4	false
PFDaA 2	613.0 / 319.0	4.11	2.93e4	531.157147	282.3	false
PFTrDA 1	663.0 / 619.0	4.36	1.53e5	452.740787	539.5	false
PFTrDA 2	663.0 / 169.0	4.36	1.04e4	467.337333	231.0	false
PFTeDA 1	713.0 / 669.0	4.58	1.95e5	504.192869	1043.6	false
PFTeDA 2	713.0 / 169.0	4.58	9.52e3	503.867021	572.8	false
NMeFOSAA 1	570.0 / 419.0	3.66	2.59e4	429.345311	543.2	false
NMeFOSAA 2	570.0 / 512.0	3.66	1.39e4	376.857105	561.8	false
NEtFOSAA 1	584.0 / 419.0	3.82	2.51e4	419.389608	464.9	false
NEtFOSAA 2	584.0 / 483.0	3.81	2.29e3	616.043667	3911.2	false

Sample Name	KB76 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:38:12	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.55	3.45e5	1001.344883	363.2	false
PFBS 2	298.9 / 99.0	1.55	1.01e5	1000.991268	347.0	false
PFHxA 1	313.0 / 269.0	1.87	2.41e5	1056.822100	68.9	false
PFHxA 2	313.0 / 119.0	1.88	1.83e4	1063.589580	54.4	false
PFHpA 1	363.0 / 319.0	2.29	2.41e5	1028.757834	195.6	false
PFHpA 2	363.0 / 169.0	2.28	5.67e3	1078.591914	112.9	false
PFHxS 1	399.0 / 80.0	2.31	3.39e5	1019.434169	275.0	false
PFHxS 2	399.0 / 99.0	2.31	1.01e5	1082.086267	379.8	false
PFOA 1	413.0 / 369.0	2.70	3.27e5	932.235404	257.0	false
PFOA 2	413.0 / 169.0	2.70	2.13e4	933.002458	227.2	false
PFNA 1	463.0 / 419.0	3.09	2.98e5	969.448009	405.7	false
PFNA 2	463.0 / 219.0	3.09	9.93e4	1051.266014	343.9	false
PFOS 1	499.0 / 80.0	3.09	5.24e5	897.563869	175.5	false
PFOS 2	499.0 / 99.0	3.09	8.92e4	878.460836	366.4	false
PFDA 1	513.0 / 469.0	3.45	3.75e5	961.338899	373.2	false
PFDA 2	513.0 / 219.0	3.45	1.56e4	966.373157	174.9	false
PFUnA 1	563.0 / 519.0	3.77	3.56e5	987.093706	367.6	false
PFUnA 2	563.0 / 269.0	3.77	1.62e4	910.317875	247.9	false
PFDaA 1	613.0 / 569.0	4.05	3.33e5	1015.587992	398.9	false
PFDaA 2	613.0 / 319.0	4.05	5.42e4	1054.052180	301.9	false
PFTrDA 1	663.0 / 619.0	4.29	3.20e5	1124.598888	685.2	false
PFTrDA 2	663.0 / 169.0	4.29	1.99e4	1060.017484	312.7	false
PFTeDA 1	713.0 / 669.0	4.51	3.52e5	1082.017300	1357.7	false
PFTeDA 2	713.0 / 169.0	4.50	1.81e4	1150.888154	636.2	false
NMeFOSAA 1	570.0 / 419.0	3.60	4.87e4	1103.795666	481.5	false
NMeFOSAA 2	570.0 / 512.0	3.60	2.87e4	1164.756781	467.2	false
NEtFOSAA 1	584.0 / 419.0	3.76	4.57e4	1000.785651	590.8	false
NEtFOSAA 2	584.0 / 483.0	3.76	3.10e3	1121.091255	136.1	false

Sample Name	KB77 CCV	Injection Vial	22
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:26:52	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.55	6.72e5	2322.242184	508.9	false
PFBS 2	298.9 / 99.0	1.55	2.04e5	2405.198838	478.7	false
PFHxA 1	313.0 / 269.0	1.87	4.87e5	2684.553499	124.6	false
PFHxA 2	313.0 / 119.0	1.87	3.31e4	2433.262799	89.3	false
PFHpA 1	363.0 / 319.0	2.28	4.69e5	2300.150540	276.0	false
PFHpA 2	363.0 / 169.0	2.28	9.78e3	2199.027765	145.7	false
PFHxS 1	399.0 / 80.0	2.30	7.10e5	2562.982634	640.6	false
PFHxS 2	399.0 / 99.0	2.30	2.01e5	2601.047254	726.9	false
PFOA 1	413.0 / 369.0	2.69	6.74e5	2414.839164	495.2	false
PFOA 2	413.0 / 169.0	2.69	4.15e4	2288.022419	270.2	false
PFNA 1	463.0 / 419.0	3.09	6.18e5	2461.190173	417.2	false
PFNA 2	463.0 / 219.0	3.09	1.95e5	2517.862973	518.5	false
PFOS 1	499.0 / 80.0	3.08	1.04e6	2211.970335	268.4	false
PFOS 2	499.0 / 99.0	3.08	1.89e5	2317.507414	505.6	false
PFDA 1	513.0 / 469.0	3.44	7.46e5	2315.516284	664.5	false
PFDA 2	513.0 / 219.0	3.44	3.23e4	2431.142037	230.6	false
PFUnA 1	563.0 / 519.0	3.76	7.48e5	2445.384516	437.6	false
PFUnA 2	563.0 / 269.0	3.76	3.36e4	2218.955034	276.2	false
PFDaA 1	613.0 / 569.0	4.04	7.16e5	2487.970055	593.2	false
PFDaA 2	613.0 / 319.0	4.04	1.11e5	2463.809113	475.3	false
PFTrDA 1	663.0 / 619.0	4.28	6.40e5	2581.520469	889.5	false
PFTrDA 2	663.0 / 169.0	4.28	4.25e4	2605.556865	462.4	false
PFTeDA 1	713.0 / 669.0	4.49	7.37e5	2618.080958	1566.8	false
PFTeDA 2	713.0 / 169.0	4.49	3.61e4	2645.330359	816.5	false
NMeFOSAA 1	570.0 / 419.0	3.59	1.01e5	2696.349725	648.3	false
NMeFOSAA 2	570.0 / 512.0	3.59	5.76e4	2810.677429	783.2	false
NEtFOSAA 1	584.0 / 419.0	3.75	1.01e5	2273.071945	696.7	false
NEtFOSAA 2	584.0 / 483.0	3.75	5.78e3	2196.441577	389.3	false

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:16:51	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.10	91153.41	259.132404	1635.1	false
d3-MeFOSAA	573.0 / 419.0	3.65	14430.39	208.974174	229.9	false
d5-EtFOSAA	589.0 / 419.0	3.81	15593.14	206.830753	180.2	false
13C5-PFHxA	318.0 / 273.0	1.89	62579.70	259.924320	518.8	false
13C4-PFHpA	367.0 / 322.0	2.31	69859.85	255.044502	892.1	false
13C8-PFOA	421.0 / 376.0	2.73	86658.98	260.077016	2121.4	false
13C9-PFNA	472.0 / 427.0	3.13	88035.85	231.388886	1040.8	false
13C6-PFDA	519.0 / 474.0	3.49	97968.15	276.436354	928.7	false
13C7-PFUnA	570.0 / 525.0	3.81	93214.36	284.738017	747.8	false
13C2-PFTeDA	715.0 / 670.0	4.57	82671.66	291.091815	2248.9	false
13C3-PFBS	302.0 / 99.0	1.55	26543.28	219.366193	494.4	false
13C3-PFHxS	402.0 / 99.0	2.34	24282.31	221.464127	509.7	false
13C8-PFOS	507.0 / 99.0	3.13	31069.02	250.834474	285.1	false

Sample Name	KB76 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:38:12	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.04	87957.23	256.341694	1355.5	false
d3-MeFOSAA	573.0 / 419.0	3.60	11117.53	178.456423	200.1	true
d5-EtFOSAA	589.0 / 419.0	3.76	12206.64	179.468006	204.1	false
13C5-PFHxA	318.0 / 273.0	1.86	55992.85	235.917680	677.5	false
13C4-PFHpA	367.0 / 322.0	2.28	65453.53	242.401821	1043.4	false
13C8-PFOA	421.0 / 376.0	2.69	86129.20	262.212463	4771.1	false
13C9-PFNA	472.0 / 427.0	3.08	89878.65	239.637060	8301.6	false
13C6-PFDA	519.0 / 474.0	3.43	91683.61	265.216691	2695.3	false
13C7-PFUnA	570.0 / 525.0	3.75	85031.52	266.281774	1033.9	false
13C2-PFTeDA	715.0 / 670.0	4.50	72482.00	261.638965	1286.2	false
13C3-PFBS	302.0 / 99.0	1.53	27347.65	250.521132	298.7	false
13C3-PFHxS	402.0 / 99.0	2.30	22536.17	227.825684	267.9	false
13C8-PFOS	507.0 / 99.0	3.08	29158.82	260.938939	206.0	false



Sample Name	KB77 CCV	Injection Vial	22
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:26:52	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	78619.39	249.826337	1147.0	false
d3-MeFOSAA	573.0 / 419.0	3.58	9751.62	164.181555	179.9	false
d5-EtFOSAA	589.0 / 419.0	3.75	12007.85	185.174036	183.1	false
13C5-PFHxA	318.0 / 273.0	1.86	45443.87	225.013792	663.2	false
13C4-PFHpA	367.0 / 322.0	2.27	57600.50	250.688830	754.7	false
13C8-PFOA	421.0 / 376.0	2.68	69156.30	247.423276	2293.4	false
13C9-PFNA	472.0 / 427.0	3.07	74735.18	234.168476	918.2	false
13C6-PFDA	519.0 / 474.0	3.43	76731.26	242.014997	834.9	false
13C7-PFUnA	570.0 / 525.0	3.74	72552.39	247.727401	726.1	false
13C2-PFTeDA	715.0 / 670.0	4.49	64241.58	252.842042	1987.3	false
13C3-PFBS	302.0 / 99.0	1.53	23074.39	221.706486	306.0	false
13C3-PFHxS	402.0 / 99.0	2.29	19152.38	203.080966	247.2	false
13C8-PFOS	507.0 / 99.0	3.07	23171.78	217.496442	239.7	false

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:42:12	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.56	165762.46	480.181754	297.5	false
PFBS 2	298.9 / 99.0	1.56	47373.50	468.983830	222.6	false
PFHxA 1	313.0 / 269.0	1.89	132094.23	516.342107	44.1	false
PFHxA 2	313.0 / 119.0	1.89	10050.72	511.188841	36.5	false
PFHpA 1	363.0 / 319.0	2.31	128516.33	465.540144	131.6	false
PFHpA 2	363.0 / 169.0	2.31	2878.61	434.396255	68.7	false
PFHxS 1	399.0 / 80.0	2.33	189954.91	490.460095	252.8	false
PFHxS 2	399.0 / 99.0	2.33	50053.76	457.232894	260.0	false
PFOA 1	413.0 / 369.0	2.72	175833.97	501.272436	181.7	false
PFOA 2	413.0 / 169.0	2.72	10100.09	442.370555	180.2	false
PFNA 1	463.0 / 419.0	3.12	161454.03	503.363141	208.1	false
PFNA 2	463.0 / 219.0	3.12	54169.80	553.909764	260.5	false
PFOS 1	499.0 / 80.0	3.12	265842.31	430.029737	164.7	false
PFOS 2	499.0 / 99.0	3.12	48580.19	449.496500	340.2	false
PFDA 1	513.0 / 469.0	3.48	194230.29	439.557947	258.0	false
PFDA 2	513.0 / 219.0	3.49	7845.77	428.340026	160.6	false
PFUnA 1	563.0 / 519.0	3.81	198933.31	513.041559	252.9	false
PFUnA 2	563.0 / 269.0	3.81	7961.43	391.174201	105.1	false
PFDaA 1	613.0 / 569.0	4.09	192111.33	482.037736	323.9	false
PFDaA 2	613.0 / 319.0	4.09	32844.45	521.093163	257.0	false
PFTrDA 1	663.0 / 619.0	4.34	180937.12	521.997254	530.0	false
PFTrDA 2	663.0 / 169.0	4.34	13644.91	600.590330	344.9	false
PFTeDA 1	713.0 / 669.0	4.56	211709.77	532.088410	1006.8	false
PFTeDA 2	713.0 / 169.0	4.56	9341.46	475.981405	420.9	false
NMeFOSAA 1	570.0 / 419.0	3.64	30606.31	487.972830	386.8	false
NMeFOSAA 2	570.0 / 512.0	3.64	18006.11	487.345049	273.5	false
NEtFOSAA 1	584.0 / 419.0	3.80	32959.58	545.866359	365.9	false
NEtFOSAA 2	584.0 / 483.0	3.80	2314.86	519.938890	718.2	true
PFBA	213.0 / 169.0	1.16	308072.35	414.056023	439.4	true
PFPeA	263.0 / 219.0	1.49	199457.41	509.138001	216.0	false
PFHpS 1	449.0 / 80.0	2.73	238608.88	489.146276	353.9	false
PFHpS 2	449.0 / 99.0	2.73	58729.52	461.079294	341.8	false
PFDS 1	599.0 / 80.0	3.78	256467.98	515.442643	160.2	false
PFDS 2	599.0 / 99.0	3.78	60868.78	526.914033	303.3	false
4:2FTS 1	327.0 / 307.0	1.83	25455.40	512.478681	495.1	false
4:2FTS 2	327.0 / 80.0	1.83	7258.75	578.364763	117.1	false
6:2FTS 1	427.0 / 407.0	2.68	38796.49	465.997081	199.6	false
6:2FTS 2	427.0 / 81.0	2.68	9748.98	515.177043	96.3	false
8:2FTS 1	527.0 / 507.0	3.46	51244.76	494.362077	617.3	false
8:2FTS 2	527.0 / 487.0	3.46	4753.75	431.351117	547.1	false
PFPeS 1	349.0 / 99.0	1.93	31746.21	479.110363	252.0	false
PFPeS 2	349.0 / 80.0	1.92	82293.40	479.527271	266.8	false
PFNS 1	549.0 / 99.0	3.46	54318.79	491.480126	357.5	false
PFNS 2	549.0 / 80.0	3.46	279506.48	491.574647	236.5	false

Sample Name	KB77 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T20:52:42	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	1.55	924003.91	2575.180686	540.8	false
PFBS 2	298.9 / 99.0	1.55	271248.75	2575.960458	560.8	false
PFHxA 1	313.0 / 269.0	1.87	675170.43	2515.594541	103.9	false
PFHxA 2	313.0 / 119.0	1.87	50975.52	2533.572643	74.7	false
PFHpA 1	363.0 / 319.0	2.28	649165.10	2515.634013	286.6	false
PFHpA 2	363.0 / 169.0	2.28	13880.87	2480.230269	183.8	false
PFHxS 1	399.0 / 80.0	2.30	924083.24	2453.646655	487.6	false
PFHxS 2	399.0 / 99.0	2.30	260293.69	2473.958585	681.5	false
PFOA 1	413.0 / 369.0	2.70	888294.03	2411.303924	357.0	false
PFOA 2	413.0 / 169.0	2.69	54942.55	2296.627660	282.9	false
PFNA 1	463.0 / 419.0	3.09	820457.02	2679.903654	560.3	false
PFNA 2	463.0 / 219.0	3.09	257041.90	2724.797284	823.0	false
PFOS 1	499.0 / 80.0	3.09	1387437.63	2518.486941	303.6	false
PFOS 2	499.0 / 99.0	3.09	245194.53	2556.574191	653.7	false
PFDA 1	513.0 / 469.0	3.45	988644.88	2356.942459	615.7	false
PFDA 2	513.0 / 219.0	3.45	43508.52	2517.162712	270.7	false
PFUnA 1	563.0 / 519.0	3.77	967371.65	2363.999277	505.0	false
PFUnA 2	563.0 / 269.0	3.77	49224.66	2406.954875	260.3	false
PFDaA 1	613.0 / 569.0	4.04	995815.60	2502.198332	556.1	false
PFDaA 2	613.0 / 319.0	4.04	158724.98	2552.920745	417.9	false
PFTrDA 1	663.0 / 619.0	4.29	983899.65	2601.561077	1026.0	false
PFTrDA 2	663.0 / 169.0	4.28	64150.73	2578.643571	560.4	false
PFTeDA 1	713.0 / 669.0	4.50	1092721.49	2543.455599	1927.1	false
PFTeDA 2	713.0 / 169.0	4.50	54214.29	2603.841087	912.8	false
NMeFOSAA 1	570.0 / 419.0	3.60	173765.90	2524.585816	1093.9	false
NMeFOSAA 2	570.0 / 512.0	3.60	93026.02	2457.152328	873.2	false
NEtFOSAA 1	584.0 / 419.0	3.76	163068.14	2911.632083	1334.2	false
NEtFOSAA 2	584.0 / 483.0	3.76	10425.94	3093.267708	138154.6	true
PFBA	213.0 / 169.0	1.15	1325396.55	2561.371291	763.1	true
PFPeA	263.0 / 219.0	1.47	1011652.32	2537.946629	396.6	false
PFHpS 1	449.0 / 80.0	2.70	1190386.45	2292.886097	467.5	false
PFHpS 2	449.0 / 99.0	2.70	315049.75	2387.857041	723.4	false
PFDS 1	599.0 / 80.0	3.74	1320242.75	2505.105018	317.8	false
PFDS 2	599.0 / 99.0	3.74	318177.68	2635.570690	575.8	false
4:2FTS 1	327.0 / 307.0	1.81	123444.58	2606.672552	1339.9	false
4:2FTS 2	327.0 / 80.0	1.81	36223.60	3049.230875	215.1	false
6:2FTS 1	427.0 / 407.0	2.66	197237.33	2464.848611	661.2	false
6:2FTS 2	427.0 / 81.0	2.65	48595.20	2615.378121	351.7	false
8:2FTS 1	527.0 / 507.0	3.42	263105.99	2322.969346	2298.4	false
8:2FTS 2	527.0 / 487.0	3.42	24215.96	2245.185277	513.9	false
PFPeS 1	349.0 / 99.0	1.91	167523.54	2434.032230	484.7	false
PFPeS 2	349.0 / 80.0	1.90	410980.05	2271.372092	585.9	false
PFNS 1	549.0 / 99.0	3.42	258573.91	2430.329827	793.7	false
PFNS 2	549.0 / 80.0	3.42	1414065.53	2550.267094	415.6	false

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:42:12	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	80989.89	237.378592	1121.0	false
13C2-PFDoA	615.0 / 570.0	4.08	103849.19	263.554566	1091.6	false
d3-MeFOSAA	573.0 / 419.0	3.63	14851.84	235.111132	202.3	false
d5-EtFOSAA	589.0 / 419.0	3.79	15749.83	228.368242	165.6	false
13C5-PFPeA	268.0 / 223.0	1.48	76964.75	253.481776	718.4	false
13C5-PFHxA	318.0 / 273.0	1.88	60936.58	242.033838	688.7	false
13C4-PFHpA	367.0 / 322.0	2.30	75548.44	263.753625	1042.0	false
13C8-PFOA	421.0 / 376.0	2.71	84882.91	243.608958	4366643.1	false
13C9-PFNA	472.0 / 427.0	3.11	90887.01	228.438541	735.6	false
13C6-PFDA	519.0 / 474.0	3.47	101262.05	255.079514	2360.4	false
13C7-PFUnA	570.0 / 525.0	3.79	90628.52	247.141762	777.8	false
13C2-PFTeDA	715.0 / 670.0	4.55	85433.28	268.546220	1617.7	false
13C3-PFBS	302.0 / 99.0	1.54	27259.35	246.268574	482.1	false
13C3-PFHxS	402.0 / 99.0	2.32	26016.24	259.379871	348.5	false
13C8-PFOS	507.0 / 99.0	3.11	30976.04	273.378181	236.2	false
13C2-4:2FTS	329.0 / 81.0	1.83	6722.14	256.774909	51.1	false
13C2-6:2FTS	429.0 / 81.0	2.68	14204.10	253.354787	99.3	false
13C2-8:2FTS	529.0 / 81.0	3.46	16279.30	255.763069	116.2	false

Sample Name	KB77 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T20:52:42	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.15	86940.27	239.221068	1097.4	false
13C2-PFDoA	615.0 / 570.0	4.03	108707.47	271.537599	1494.3	false
d3-MeFOSAA	573.0 / 419.0	3.59	17713.90	264.292884	213.2	false
d5-EtFOSAA	589.0 / 419.0	3.75	15097.53	206.321331	203.2	false
13C5-PFPeA	268.0 / 223.0	1.47	78054.52	241.335187	605.9	false
13C5-PFHxA	318.0 / 273.0	1.86	67215.59	246.327512	564.0	false
13C4-PFHpA	367.0 / 322.0	2.27	72984.11	235.096437	680.3	false
13C8-PFOA	421.0 / 376.0	2.68	91266.81	241.674450	1024.5	false
13C9-PFNA	472.0 / 427.0	3.08	91277.86	211.679042	1949.6	false
13C6-PFDA	519.0 / 474.0	3.43	99925.67	247.747380	801.0	false
13C7-PFUnA	570.0 / 525.0	3.75	97081.19	260.567033	691.8	false
13C2-PFTeDA	715.0 / 670.0	4.49	97980.28	303.133395	1849.4	false
13C3-PFBS	302.0 / 99.0	1.53	28600.23	243.523812	468.6	false
13C3-PFHxS	402.0 / 99.0	2.30	26172.93	245.936218	342.9	false
13C8-PFOS	507.0 / 99.0	3.08	27621.76	229.756511	207.2	false
13C2-4:2FTS	329.0 / 81.0	1.81	5939.54	213.833613	38.7	true
13C2-6:2FTS	429.0 / 81.0	2.65	14710.40	247.296819	119.5	false
13C2-8:2FTS	529.0 / 81.0	3.42	19128.24	283.240640	95.3	false

<b>Sample Name</b>	KB81 ICC	<b>Injection Vial</b>	10
<b>Sample ID</b>	ICC	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:13:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.280	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.30	PFHpA			
PFHpA_2	363.0 / 169.0	2.29	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.71	PFOA			
PFOA_2	413.0 / 169.0	2.71	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.10	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.10	PFOS			
PFOS_2	499.0 / 99.0	3.10	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.46	PFDA			
PFDA_2	513.0 / 219.0	3.46	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.79	PFUnA			
PFUnA_2	563.0 / 269.0	3.79	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.07	PFDoA			
PFDoA_2	613.0 / 319.0	4.07	PFDoA	0.150	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.32	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.32	PFTTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	4.54	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.54	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.62	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.62	NMeFOSAA	0.580	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.78	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.78	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	29
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T00:51:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.300	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.76	PFUnA			
PFUnA_2	563.0 / 269.0	3.76	PFUnA	0.060	0.049	ü
PFDoA_1	613.0 / 569.0	4.04	PFDoA			
PFDoA_2	613.0 / 319.0	4.04	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.29	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.29	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.50	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.50	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.59	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.59	NMeFOSAA	0.550	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.75	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.75	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	39
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:39:48	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.69	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.320	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.76	PFUnA			
PFUnA_2	563.0 / 269.0	3.76	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.04	PFDoA			
PFDoA_2	613.0 / 319.0	4.04	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.29	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.28	PFTTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	4.50	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.50	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.59	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.59	NMeFOSAA	0.550	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.75	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.75	NEtFOSAA	0.060	0.062	ü



<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	50
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:39:20	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.310	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.320	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	3.75	PFUnA	0.060	0.049	ü
PFDoA_1	613.0 / 569.0	4.04	PFDoA			
PFDoA_2	613.0 / 319.0	4.04	PFDoA	0.150	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.28	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.49	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.49	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.59	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.58	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.75	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.75	NEtFOSAA	0.070	0.062	ü

<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	7
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:38:59	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.280	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	3.75	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.03	PFDoA			
PFDoA_2	613.0 / 319.0	4.03	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.28	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.49	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.49	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.58	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.58	NMeFOSAA	0.520	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.74	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.75	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	18
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:38:41	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	3.07	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.42	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.74	PFUnA			
PFUnA_2	563.0 / 269.0	3.74	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.03	PFDoA			
PFDoA_2	613.0 / 319.0	4.02	PFDoA	0.150	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.27	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.27	PFTTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	4.49	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.48	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.58	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.58	NMeFOSAA	0.530	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.74	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.74	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	29
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:38:28	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.85	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.28	PFHxS			
PFHxS_2	399.0 / 99.0	2.28	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.06	PFNA			
PFNA_2	463.0 / 219.0	3.06	PFNA	0.320	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.06	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.42	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.74	PFUnA			
PFUnA_2	563.0 / 269.0	3.74	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.02	PFDoA			
PFDoA_2	613.0 / 319.0	4.02	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.27	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.26	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.48	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.48	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.58	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.57	NMeFOSAA	0.560	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.73	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.73	NEtFOSAA	0.070	0.062	ü

<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	33
<b>Sample ID</b>	CCCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:22:00	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.310	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.300	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.06	PFOS	0.190	0.174	ü
PFDA_1	513.0 / 469.0	3.42	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.74	PFUnA			
PFUnA_2	563.0 / 269.0	3.74	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.02	PFDoA			
PFDoA_2	613.0 / 319.0	4.02	PFDoA	0.170	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.26	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.26	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.47	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.47	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.57	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.58	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.73	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.73	NEtFOSAA	0.070	0.062	ü

<b>Sample Name</b>	KB75 ISC	<b>Injection Vial</b>	1
<b>Sample ID</b>	Instrument Sensitivity Check	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T18:16:51	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.91	PFHxA			
PFHxA_2	313.0 / 119.0	1.91	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.33	PFHpA			
PFHpA_2	363.0 / 169.0	2.32	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.35	PFHxS			
PFHxS_2	399.0 / 99.0	2.35	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.74	PFOA			
PFOA_2	413.0 / 169.0	2.74	PFOA	0.080	0.065	ü
PFNA_1	463.0 / 419.0	3.14	PFNA			
PFNA_2	463.0 / 219.0	3.14	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.14	PFOS			
PFOS_2	499.0 / 99.0	3.14	PFOS	0.190	0.174	ü
PFDA_1	513.0 / 469.0	3.50	PFDA			
PFDA_2	513.0 / 219.0	3.50	PFDA	0.050	0.041	ü
PFUnA_1	563.0 / 519.0	3.83	PFUnA			
PFUnA_2	563.0 / 269.0	3.83	PFUnA	0.060	0.049	ü
PFDaA_1	613.0 / 569.0	4.11	PFDaA			
PFDaA_2	613.0 / 319.0	4.11	PFDaA	0.170	0.160	ü
PFTrDA_1	663.0 / 619.0	4.36	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.36	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.58	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.58	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.66	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.66	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.82	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.81	NEtFOSAA	0.090	0.062	ü

<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	13
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T20:38:12	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.55	PFBS			
PFBS_2	298.9 / 99.0	1.55	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.87	PFHxA			
PFHxA_2	313.0 / 119.0	1.88	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.29	PFHpA			
PFHpA_2	363.0 / 169.0	2.28	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.31	PFHxS			
PFHxS_2	399.0 / 99.0	2.31	PFHxS	0.300	0.282	ü
PFOA_1	413.0 / 369.0	2.70	PFOA			
PFOA_2	413.0 / 169.0	2.70	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.09	PFNA			
PFNA_2	463.0 / 219.0	3.09	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	3.09	PFOS			
PFOS_2	499.0 / 99.0	3.09	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.45	PFDA			
PFDA_2	513.0 / 219.0	3.45	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.77	PFUnA			
PFUnA_2	563.0 / 269.0	3.77	PFUnA	0.050	0.049	ü
PFDaA_1	613.0 / 569.0	4.05	PFDaA			
PFDaA_2	613.0 / 319.0	4.05	PFDaA	0.160	0.160	ü
PFTrDA_1	663.0 / 619.0	4.29	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.29	PFTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	4.51	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.50	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.60	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.60	NMeFOSAA	0.590	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.76	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.76	NEtFOSAA	0.070	0.062	ü

<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	22
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T22:26:52	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.55	PFBS			
PFBS_2	298.9 / 99.0	1.55	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.87	PFHxA			
PFHxA_2	313.0 / 119.0	1.87	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.28	PFHpA			
PFHpA_2	363.0 / 169.0	2.28	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.69	PFOA			
PFOA_2	413.0 / 169.0	2.69	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.09	PFNA			
PFNA_2	463.0 / 219.0	3.09	PFNA	0.320	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.44	PFDA			
PFDA_2	513.0 / 219.0	3.44	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.76	PFUnA			
PFUnA_2	563.0 / 269.0	3.76	PFUnA	0.040	0.049	ü
PFDaA_1	613.0 / 569.0	4.04	PFDaA			
PFDaA_2	613.0 / 319.0	4.04	PFDaA	0.150	0.160	ü
PFTrDA_1	663.0 / 619.0	4.28	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.28	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.49	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.49	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.59	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.59	NMeFOSAA	0.570	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.75	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.75	NEtFOSAA	0.060	0.062	ü



<b>Sample Name</b>	KB75 ISC	<b>Injection Vial</b>	1
<b>Sample ID</b>	Instrument Sensitivity Check	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T18:42:12	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.56	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.89	PFHxA			
PFHxA_2	313.0 / 119.0	1.89	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.31	PFHpA			
PFHpA_2	363.0 / 169.0	2.31	PFHpA	0.020	0.023	ü
PFHxS_1	399.0 / 80.0	2.33	PFHxS			
PFHxS_2	399.0 / 99.0	2.33	PFHxS	0.260	0.282	ü
PFOA_1	413.0 / 369.0	2.72	PFOA			
PFOA_2	413.0 / 169.0	2.72	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.12	PFNA			
PFNA_2	463.0 / 219.0	3.12	PFNA	0.340	0.306	ü
PFOS_1	499.0 / 80.0	3.12	PFOS			
PFOS_2	499.0 / 99.0	3.12	PFOS	0.180	0.175	ü
PFDA_1	513.0 / 469.0	3.48	PFDA			
PFDA_2	513.0 / 219.0	3.49	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.81	PFUnA			
PFUnA_2	563.0 / 269.0	3.81	PFUnA	0.040	0.052	ü
PFDaA_1	613.0 / 569.0	4.09	PFDaA			
PFDaA_2	613.0 / 319.0	4.09	PFDaA	0.170	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.34	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.34	PFTTrDA	0.080	0.066	ü
PFTeDA_1	713.0 / 669.0	4.56	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.56	PFTeDA	0.040	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.64	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.64	NMeFOSAA	0.590	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.80	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.80	NEtFOSAA	0.070	0.064	ü
PFBA	213.0 / 169.0	1.16				
PFPeA	263.0 / 219.0	1.49		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.73	PFHpS			
PFHpS_2	449.0 / 99.0	2.73	PFHpS	0.250	0.262	ü
PFDS_1	599.0 / 80.0	3.78	PFDS			
PFDS_2	599.0 / 99.0	3.78	PFDS	0.240	0.233	ü
4:2FTS_1	327.0 / 307.0	1.83	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.83	4:2FTS	0.290	0.263	ü
6:2FTS_1	427.0 / 407.0	2.68	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.68	6:2FTS	0.250	0.233	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
8:2FTS_1	527.0 / 507.0	3.46	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.46	8:2FTS	0.090	0.106	ü
PFPeS_1	349.0 / 99.0	1.93	PFPeS			
PFPeS_2	349.0 / 80.0	1.92	PFPeS	2.590	2.584	ü
PFNS_1	549.0 / 99.0	3.46	PFNS			
PFNS_2	549.0 / 80.0	3.46	PFNS	5.150	5.131	ü

<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	13
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T20:52:42	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.55	PFBS			
PFBS_2	298.9 / 99.0	1.55	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.87	PFHxA			
PFHxA_2	313.0 / 119.0	1.87	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.28	PFHpA			
PFHpA_2	363.0 / 169.0	2.28	PFHpA	0.020	0.023	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.70	PFOA			
PFOA_2	413.0 / 169.0	2.69	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.09	PFNA			
PFNA_2	463.0 / 219.0	3.09	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.09	PFOS			
PFOS_2	499.0 / 99.0	3.09	PFOS	0.180	0.175	ü
PFDA_1	513.0 / 469.0	3.45	PFDA			
PFDA_2	513.0 / 219.0	3.45	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.77	PFUnA			
PFUnA_2	563.0 / 269.0	3.77	PFUnA	0.050	0.052	ü
PFDaA_1	613.0 / 569.0	4.04	PFDaA			
PFDaA_2	613.0 / 319.0	4.04	PFDaA	0.160	0.160	ü
PFTrDA_1	663.0 / 619.0	4.29	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.28	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.50	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.50	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.60	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.60	NMeFOSAA	0.540	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.76	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.76	NEtFOSAA	0.060	0.064	ü
PFBA	213.0 / 169.0	1.15				
PFPeA	263.0 / 219.0	1.47		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	2.70	PFHpS			
PFHpS_2	449.0 / 99.0	2.70	PFHpS	0.260	0.262	ü
PFDS_1	599.0 / 80.0	3.74	PFDS			
PFDS_2	599.0 / 99.0	3.74	PFDS	0.240	0.233	ü
4:2FTS_1	327.0 / 307.0	1.81	4:2FTS			
4:2FTS_2	327.0 / 80.0	1.81	4:2FTS	0.290	0.263	ü
6:2FTS_1	427.0 / 407.0	2.66	6:2FTS			
6:2FTS_2	427.0 / 81.0	2.65	6:2FTS	0.250	0.233	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
8:2FTS_1	527.0 / 507.0	3.42	8:2FTS			
8:2FTS_2	527.0 / 487.0	3.42	8:2FTS	0.090	0.106	ü
PFPeS_1	349.0 / 99.0	1.91	PFPeS			
PFPeS_2	349.0 / 80.0	1.90	PFPeS	2.450	2.584	ü
PFNS_1	549.0 / 99.0	3.42	PFNS			
PFNS_2	549.0 / 80.0	3.42	PFNS	5.470	5.131	ü

Sample Name	KB81 ICC	Injection Vial	10
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:13:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	27104.45	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	27104.45	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	59013.59	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	59013.59	250.00
PFHpA 1	363.0 / 319.0	2.30	13C4-PFHpA	367.0 / 322.0	70279.06	250.00
PFHpA 2	363.0 / 169.0	2.29	13C4-PFHpA	367.0 / 322.0	70279.06	250.00
PFHxS 1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	24692.35	236.50
PFHxS 2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	24692.35	236.50
PFOA 1	413.0 / 369.0	2.71	13C8-PFOA	421.0 / 376.0	89115.92	250.00
PFOA 2	413.0 / 169.0	2.71	13C8-PFOA	421.0 / 376.0	89115.92	250.00
PFNA 1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	100916.15	250.00
PFNA 2	463.0 / 219.0	3.10	13C9-PFNA	472.0 / 427.0	100916.15	250.00
PFOS 1	499.0 / 80.0	3.10	13C8-PFOS	507.0 / 99.0	29786.30	239.25
PFOS 2	499.0 / 99.0	3.10	13C8-PFOS	507.0 / 99.0	29786.30	239.25
PFDA 1	513.0 / 469.0	3.46	13C6-PFDA	519.0 / 474.0	90930.64	250.00
PFDA 2	513.0 / 219.0	3.46	13C6-PFDA	519.0 / 474.0	90930.64	250.00
PFUnA 1	563.0 / 519.0	3.79	13C7-PFUnA	570.0 / 525.0	89293.12	250.00
PFUnA 2	563.0 / 269.0	3.79	13C7-PFUnA	570.0 / 525.0	89293.12	250.00
PFDoA 1	613.0 / 569.0	4.07	13C2-PFDoA	615.0 / 570.0	93406.68	250.00
PFDoA 2	613.0 / 319.0	4.07	13C2-PFDoA	615.0 / 570.0	93406.68	250.00
PFTrDA 1	663.0 / 619.0	4.32	13C2-PFTeDA	715.0 / 670.0	71262.97	250.00
PFTrDA 2	663.0 / 169.0	4.32	13C2-PFTeDA	715.0 / 670.0	71262.97	250.00
PFTeDA 1	713.0 / 669.0	4.54	13C2-PFTeDA	715.0 / 670.0	71262.97	250.00
PFTeDA 2	713.0 / 169.0	4.54	13C2-PFTeDA	715.0 / 670.0	71262.97	250.00
NMeFOSAA 1	570.0 / 419.0	3.62	d3-MeFOSAA	573.0 / 419.0	17861.22	250.00
NMeFOSAA 2	570.0 / 512.0	3.62	d3-MeFOSAA	573.0 / 419.0	17861.22	250.00
NEtFOSAA 1	584.0 / 419.0	3.78	d5-EtFOSAA	589.0 / 419.0	14753.24	250.00
NEtFOSAA 2	584.0 / 483.0	3.78	d5-EtFOSAA	589.0 / 419.0	14753.24	250.00

Sample Name	KB76 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T00:51:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	26320.16	232.25
PFBS 2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	26320.16	232.25
PFHxA 1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	65651.87	250.00
PFHxA 2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	65651.87	250.00
PFHpA 1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	70975.97	250.00
PFHpA 2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	70975.97	250.00
PFHxS 1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	28057.50	236.50
PFHxS 2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	28057.50	236.50
PFOA 1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	94634.29	250.00
PFOA 2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	94634.29	250.00
PFNA 1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	97770.66	250.00
PFNA 2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	97770.66	250.00
PFOS 1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	28751.00	239.25
PFOS 2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	28751.00	239.25
PFDA 1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	109784.66	250.00
PFDA 2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	109784.66	250.00
PFUnA 1	563.0 / 519.0	3.76	13C7-PFUnA	570.0 / 525.0	96273.43	250.00
PFUnA 2	563.0 / 269.0	3.76	13C7-PFUnA	570.0 / 525.0	96273.43	250.00
PFDoA 1	613.0 / 569.0	4.04	13C2-PFDoA	615.0 / 570.0	95664.50	250.00
PFDoA 2	613.0 / 319.0	4.04	13C2-PFDoA	615.0 / 570.0	95664.50	250.00
PFTeDA 1	663.0 / 619.0	4.29	13C2-PFTeDA	715.0 / 670.0	79092.70	250.00
PFTeDA 2	663.0 / 169.0	4.29	13C2-PFTeDA	715.0 / 670.0	79092.70	250.00
PFTeDA 1	713.0 / 669.0	4.50	13C2-PFTeDA	715.0 / 670.0	79092.70	250.00
PFTeDA 2	713.0 / 169.0	4.50	13C2-PFTeDA	715.0 / 670.0	79092.70	250.00
NMeFOSAA 1	570.0 / 419.0	3.59	d3-MeFOSAA	573.0 / 419.0	16692.66	250.00
NMeFOSAA 2	570.0 / 512.0	3.59	d3-MeFOSAA	573.0 / 419.0	16692.66	250.00
NEtFOSAA 1	584.0 / 419.0	3.75	d5-EtFOSAA	589.0 / 419.0	18305.46	250.00
NEtFOSAA 2	584.0 / 483.0	3.75	d5-EtFOSAA	589.0 / 419.0	18305.46	250.00

Sample Name	KB77 CCV	Injection Vial	39
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:39:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	26850.67	232.25
PFBS 2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	26850.67	232.25
PFHxA 1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	62266.50	250.00
PFHxA 2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	62266.50	250.00
PFHpA 1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	72298.63	250.00
PFHpA 2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	72298.63	250.00
PFHxS 1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	24406.47	236.50
PFHxS 2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	24406.47	236.50
PFOA 1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	88559.70	250.00
PFOA 2	413.0 / 169.0	2.69	13C8-PFOA	421.0 / 376.0	88559.70	250.00
PFNA 1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	91744.04	250.00
PFNA 2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	91744.04	250.00
PFOS 1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	27504.75	239.25
PFOS 2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	27504.75	239.25
PFDA 1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	92505.35	250.00
PFDA 2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	92505.35	250.00
PFUnA 1	563.0 / 519.0	3.76	13C7-PFUnA	570.0 / 525.0	95492.16	250.00
PFUnA 2	563.0 / 269.0	3.76	13C7-PFUnA	570.0 / 525.0	95492.16	250.00
PFDoA 1	613.0 / 569.0	4.04	13C2-PFDoA	615.0 / 570.0	96987.41	250.00
PFDoA 2	613.0 / 319.0	4.04	13C2-PFDoA	615.0 / 570.0	96987.41	250.00
PFTeDA 1	663.0 / 619.0	4.29	13C2-PFTeDA	715.0 / 670.0	77129.39	250.00
PFTeDA 2	663.0 / 169.0	4.28	13C2-PFTeDA	715.0 / 670.0	77129.39	250.00
PFTeDA 1	713.0 / 669.0	4.50	13C2-PFTeDA	715.0 / 670.0	77129.39	250.00
PFTeDA 2	713.0 / 169.0	4.50	13C2-PFTeDA	715.0 / 670.0	77129.39	250.00
NMeFOSAA 1	570.0 / 419.0	3.59	d3-MeFOSAA	573.0 / 419.0	15520.49	250.00
NMeFOSAA 2	570.0 / 512.0	3.59	d3-MeFOSAA	573.0 / 419.0	15520.49	250.00
NEtFOSAA 1	584.0 / 419.0	3.75	d5-EtFOSAA	589.0 / 419.0	15629.11	250.00
NEtFOSAA 2	584.0 / 483.0	3.75	d5-EtFOSAA	589.0 / 419.0	15629.11	250.00

Sample Name	KB76 CCV	Injection Vial	50
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:39:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	25961.09	232.25
PFBS 2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	25961.09	232.25
PFHxA 1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	63370.08	250.00
PFHxA 2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	63370.08	250.00
PFHpA 1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	68790.62	250.00
PFHpA 2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	68790.62	250.00
PFHxS 1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	24388.39	236.50
PFHxS 2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	24388.39	236.50
PFOA 1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	90533.99	250.00
PFOA 2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	90533.99	250.00
PFNA 1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	90011.32	250.00
PFNA 2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	90011.32	250.00
PFOS 1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	32217.34	239.25
PFOS 2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	32217.34	239.25
PFDA 1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	98119.37	250.00
PFDA 2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	98119.37	250.00
PFUnA 1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	94438.14	250.00
PFUnA 2	563.0 / 269.0	3.75	13C7-PFUnA	570.0 / 525.0	94438.14	250.00
PFDoA 1	613.0 / 569.0	4.04	13C2-PFDoA	615.0 / 570.0	94681.99	250.00
PFDoA 2	613.0 / 319.0	4.04	13C2-PFDoA	615.0 / 570.0	94681.99	250.00
PFTeDA 1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	78235.26	250.00
PFTeDA 2	663.0 / 169.0	4.28	13C2-PFTeDA	715.0 / 670.0	78235.26	250.00
PFTeDA 1	713.0 / 669.0	4.49	13C2-PFTeDA	715.0 / 670.0	78235.26	250.00
PFTeDA 2	713.0 / 169.0	4.49	13C2-PFTeDA	715.0 / 670.0	78235.26	250.00
NMeFOSAA 1	570.0 / 419.0	3.59	d3-MeFOSAA	573.0 / 419.0	16074.96	250.00
NMeFOSAA 2	570.0 / 512.0	3.58	d3-MeFOSAA	573.0 / 419.0	16074.96	250.00
NEtFOSAA 1	584.0 / 419.0	3.75	d5-EtFOSAA	589.0 / 419.0	17284.62	250.00
NEtFOSAA 2	584.0 / 483.0	3.75	d5-EtFOSAA	589.0 / 419.0	17284.62	250.00



Sample Name	KB77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:38:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	27510.57	232.25
PFBS 2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	27510.57	232.25
PFHxA 1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	64289.33	250.00
PFHxA 2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	64289.33	250.00
PFHpA 1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	68252.84	250.00
PFHpA 2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	68252.84	250.00
PFHxS 1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	23934.59	236.50
PFHxS 2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	23934.59	236.50
PFOA 1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	92008.49	250.00
PFOA 2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	92008.49	250.00
PFNA 1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	96204.58	250.00
PFNA 2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	96204.58	250.00
PFOS 1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	28537.27	239.25
PFOS 2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	28537.27	239.25
PFDA 1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	98676.28	250.00
PFDA 2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	98676.28	250.00
PFUnA 1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	93992.05	250.00
PFUnA 2	563.0 / 269.0	3.75	13C7-PFUnA	570.0 / 525.0	93992.05	250.00
PFDoA 1	613.0 / 569.0	4.03	13C2-PFDoA	615.0 / 570.0	96538.07	250.00
PFDoA 2	613.0 / 319.0	4.03	13C2-PFDoA	615.0 / 570.0	96538.07	250.00
PFTeDA 1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	77045.14	250.00
PFTeDA 2	663.0 / 169.0	4.28	13C2-PFTeDA	715.0 / 670.0	77045.14	250.00
PFTeDA 1	713.0 / 669.0	4.49	13C2-PFTeDA	715.0 / 670.0	77045.14	250.00
PFTeDA 2	713.0 / 169.0	4.49	13C2-PFTeDA	715.0 / 670.0	77045.14	250.00
NMeFOSAA 1	570.0 / 419.0	3.58	d3-MeFOSAA	573.0 / 419.0	14604.17	250.00
NMeFOSAA 2	570.0 / 512.0	3.58	d3-MeFOSAA	573.0 / 419.0	14604.17	250.00
NEtFOSAA 1	584.0 / 419.0	3.74	d5-EtFOSAA	589.0 / 419.0	18784.68	250.00
NEtFOSAA 2	584.0 / 483.0	3.75	d5-EtFOSAA	589.0 / 419.0	18784.68	250.00

Sample Name	KB76 CCV	Injection Vial	18
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:38:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	25528.23	232.25
PFBS 2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	25528.23	232.25
PFHxA 1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	57725.21	250.00
PFHxA 2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	57725.21	250.00
PFHpA 1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	63069.36	250.00
PFHpA 2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	63069.36	250.00
PFHxS 1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	22004.75	236.50
PFHxS 2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22004.75	236.50
PFOA 1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	84345.69	250.00
PFOA 2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	84345.69	250.00
PFNA 1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	87889.58	250.00
PFNA 2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	87889.58	250.00
PFOS 1	499.0 / 80.0	3.07	13C8-PFOS	507.0 / 99.0	27202.76	239.25
PFOS 2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	27202.76	239.25
PFDA 1	513.0 / 469.0	3.42	13C6-PFDA	519.0 / 474.0	92793.58	250.00
PFDA 2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	92793.58	250.00
PFUnA 1	563.0 / 519.0	3.74	13C7-PFUnA	570.0 / 525.0	91338.57	250.00
PFUnA 2	563.0 / 269.0	3.74	13C7-PFUnA	570.0 / 525.0	91338.57	250.00
PFDoA 1	613.0 / 569.0	4.03	13C2-PFDoA	615.0 / 570.0	88717.95	250.00
PFDoA 2	613.0 / 319.0	4.02	13C2-PFDoA	615.0 / 570.0	88717.95	250.00
PFTeDA 1	663.0 / 619.0	4.27	13C2-PFTeDA	715.0 / 670.0	72991.55	250.00
PFTeDA 2	663.0 / 169.0	4.27	13C2-PFTeDA	715.0 / 670.0	72991.55	250.00
PFTeDA 1	713.0 / 669.0	4.49	13C2-PFTeDA	715.0 / 670.0	72991.55	250.00
PFTeDA 2	713.0 / 169.0	4.48	13C2-PFTeDA	715.0 / 670.0	72991.55	250.00
NMeFOSAA 1	570.0 / 419.0	3.58	d3-MeFOSAA	573.0 / 419.0	18101.45	250.00
NMeFOSAA 2	570.0 / 512.0	3.58	d3-MeFOSAA	573.0 / 419.0	18101.45	250.00
NEtFOSAA 1	584.0 / 419.0	3.74	d5-EtFOSAA	589.0 / 419.0	17064.96	250.00
NEtFOSAA 2	584.0 / 483.0	3.74	d5-EtFOSAA	589.0 / 419.0	17064.96	250.00

Sample Name	KB77 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:38:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.53	13C3-PFBS	302.0 / 99.0	28302.64	232.25
PFBS 2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	28302.64	232.25
PFHxA 1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	62411.77	250.00
PFHxA 2	313.0 / 119.0	1.85	13C5-PFHxA	318.0 / 273.0	62411.77	250.00
PFHpA 1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	66276.10	250.00
PFHpA 2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	66276.10	250.00
PFHxS 1	399.0 / 80.0	2.28	13C3-PFHxS	402.0 / 99.0	24238.69	236.50
PFHxS 2	399.0 / 99.0	2.28	13C3-PFHxS	402.0 / 99.0	24238.69	236.50
PFOA 1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	92778.49	250.00
PFOA 2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	92778.49	250.00
PFNA 1	463.0 / 419.0	3.06	13C9-PFNA	472.0 / 427.0	86404.23	250.00
PFNA 2	463.0 / 219.0	3.06	13C9-PFNA	472.0 / 427.0	86404.23	250.00
PFOS 1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	27679.16	239.25
PFOS 2	499.0 / 99.0	3.06	13C8-PFOS	507.0 / 99.0	27679.16	239.25
PFDA 1	513.0 / 469.0	3.42	13C6-PFDA	519.0 / 474.0	99328.30	250.00
PFDA 2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	99328.30	250.00
PFUnA 1	563.0 / 519.0	3.74	13C7-PFUnA	570.0 / 525.0	95490.60	250.00
PFUnA 2	563.0 / 269.0	3.74	13C7-PFUnA	570.0 / 525.0	95490.60	250.00
PFDoA 1	613.0 / 569.0	4.02	13C2-PFDoA	615.0 / 570.0	91742.73	250.00
PFDoA 2	613.0 / 319.0	4.02	13C2-PFDoA	615.0 / 570.0	91742.73	250.00
PFTeDA 1	663.0 / 619.0	4.27	13C2-PFTeDA	715.0 / 670.0	78089.19	250.00
PFTeDA 2	663.0 / 169.0	4.26	13C2-PFTeDA	715.0 / 670.0	78089.19	250.00
PFTeDA 1	713.0 / 669.0	4.48	13C2-PFTeDA	715.0 / 670.0	78089.19	250.00
PFTeDA 2	713.0 / 169.0	4.48	13C2-PFTeDA	715.0 / 670.0	78089.19	250.00
NMeFOSAA 1	570.0 / 419.0	3.58	d3-MeFOSAA	573.0 / 419.0	16798.26	250.00
NMeFOSAA 2	570.0 / 512.0	3.57	d3-MeFOSAA	573.0 / 419.0	16798.26	250.00
NEtFOSAA 1	584.0 / 419.0	3.73	d5-EtFOSAA	589.0 / 419.0	16596.06	250.00
NEtFOSAA 2	584.0 / 483.0	3.73	d5-EtFOSAA	589.0 / 419.0	16596.06	250.00

Sample Name	KB76 CCV	Injection Vial	33
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:22:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	16158.92	232.25
PFBS 2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	16158.92	232.25
PFHxA 1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	39283.43	250.00
PFHxA 2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	39283.43	250.00
PFHpA 1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	40977.87	250.00
PFHpA 2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	40977.87	250.00
PFHxS 1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	15287.84	236.50
PFHxS 2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	15287.84	236.50
PFOA 1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	53651.80	250.00
PFOA 2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	53651.80	250.00
PFNA 1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	59577.97	250.00
PFNA 2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	59577.97	250.00
PFOS 1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	17178.99	239.25
PFOS 2	499.0 / 99.0	3.06	13C8-PFOS	507.0 / 99.0	17178.99	239.25
PFDA 1	513.0 / 469.0	3.42	13C6-PFDA	519.0 / 474.0	62757.15	250.00
PFDA 2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	62757.15	250.00
PFUnA 1	563.0 / 519.0	3.74	13C7-PFUnA	570.0 / 525.0	55703.49	250.00
PFUnA 2	563.0 / 269.0	3.74	13C7-PFUnA	570.0 / 525.0	55703.49	250.00
PFDoA 1	613.0 / 569.0	4.02	13C2-PFDoA	615.0 / 570.0	60918.57	250.00
PFDoA 2	613.0 / 319.0	4.02	13C2-PFDoA	615.0 / 570.0	60918.57	250.00
PFTeDA 1	663.0 / 619.0	4.26	13C2-PFTeDA	715.0 / 670.0	47048.92	250.00
PFTeDA 2	663.0 / 169.0	4.26	13C2-PFTeDA	715.0 / 670.0	47048.92	250.00
PFTeDA 1	713.0 / 669.0	4.47	13C2-PFTeDA	715.0 / 670.0	47048.92	250.00
PFTeDA 2	713.0 / 169.0	4.47	13C2-PFTeDA	715.0 / 670.0	47048.92	250.00
NMeFOSAA 1	570.0 / 419.0	3.57	d3-MeFOSAA	573.0 / 419.0	9506.75	250.00
NMeFOSAA 2	570.0 / 512.0	3.58	d3-MeFOSAA	573.0 / 419.0	9506.75	250.00
NEtFOSAA 1	584.0 / 419.0	3.73	d5-EtFOSAA	589.0 / 419.0	12579.21	250.00
NEtFOSAA 2	584.0 / 483.0	3.73	d5-EtFOSAA	589.0 / 419.0	12579.21	250.00

Sample Name	KB81 ICC	Injection Vial	10
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:13:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.06	13C2-PFDA	515.0 / 470.0	103402.36	250.00
d3-MeFOSAA	573.0 / 419.0	3.61	13C4-PFOS	503.0 / 99.0	33690.55	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	33690.55	239.25
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	85242.44	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	85242.44	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	85242.44	250.00
13C9-PFNA	472.0 / 427.0	3.09	13C2-PFOA	415.0 / 370.0	85242.44	250.00
13C6-PFDA	519.0 / 474.0	3.45	13C2-PFDA	515.0 / 470.0	103402.36	250.00
13C7-PFUnA	570.0 / 525.0	3.77	13C2-PFDA	515.0 / 470.0	103402.36	250.00
13C2-PFTeDA	715.0 / 670.0	4.54	13C2-PFDA	515.0 / 470.0	103402.36	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	33690.55	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	33690.55	239.25
13C8-PFOS	507.0 / 99.0	3.09	13C4-PFOS	503.0 / 99.0	33690.55	239.25

Sample Name	KB76 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T00:51:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	106995.00	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	30190.57	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	30190.57	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	90764.47	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	90764.47	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	90764.47	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	90764.47	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	106995.00	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	106995.00	250.00
13C2-PFTeDA	715.0 / 670.0	4.50	13C2-PFDA	515.0 / 470.0	106995.00	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	30190.57	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	30190.57	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	30190.57	239.25

Sample Name	KB77 CCV	Injection Vial	39
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:39:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	102591.55	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	30964.35	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	30964.35	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	85385.11	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	85385.11	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	85385.11	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	85385.11	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	102591.55	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	102591.55	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	102591.55	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	30964.35	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	30964.35	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	30964.35	239.25

Sample Name	KB76 CCV	Injection Vial	50
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:39:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	97946.16	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	31065.56	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	31065.56	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	83683.34	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	83683.34	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	83683.34	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	83683.34	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	97946.16	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	97946.16	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	97946.16	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	31065.56	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	31065.56	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	31065.56	239.25



Sample Name	KB77 CCV	Injection Vial	7
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:38:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	97865.49	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	33086.94	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	33086.94	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	85366.93	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	85366.93	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	85366.93	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	85366.93	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	97865.49	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	97865.49	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	97865.49	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	33086.94	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	33086.94	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	33086.94	239.25

Sample Name	KB76 CCV	Injection Vial	18
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:38:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.01	13C2-PFDA	515.0 / 470.0	99627.09	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	29569.19	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	29569.19	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	83884.41	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	83884.41	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	83884.41	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	83884.41	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	99627.09	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	99627.09	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	99627.09	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	29569.19	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	29569.19	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	29569.19	239.25

Sample Name	KB77 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:38:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.01	13C2-PFDA	515.0 / 470.0	98152.54	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	31129.08	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	31129.08	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	86466.17	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	86466.17	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	86466.17	250.00
13C9-PFNA	472.0 / 427.0	3.05	13C2-PFOA	415.0 / 370.0	86466.17	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	98152.54	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	98152.54	250.00
13C2-PFTeDA	715.0 / 670.0	4.47	13C2-PFDA	515.0 / 470.0	98152.54	250.00
13C3-PFBS	302.0 / 99.0	1.51	13C4-PFOS	503.0 / 99.0	31129.08	239.25
13C3-PFHxS	402.0 / 99.0	2.27	13C4-PFOS	503.0 / 99.0	31129.08	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	31129.08	239.25

Sample Name	KB76 CCV	Injection Vial	33
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:22:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.01	13C2-PFDA	515.0 / 470.0	65473.33	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	19659.10	239.25
d5-EtFOSAA	589.0 / 419.0	3.72	13C4-PFOS	503.0 / 99.0	19659.10	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	50610.87	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	50610.87	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	50610.87	250.00
13C9-PFNA	472.0 / 427.0	3.05	13C2-PFOA	415.0 / 370.0	50610.87	250.00
13C6-PFDA	519.0 / 474.0	3.40	13C2-PFDA	515.0 / 470.0	65473.33	250.00
13C7-PFUnA	570.0 / 525.0	3.72	13C2-PFDA	515.0 / 470.0	65473.33	250.00
13C2-PFTeDA	715.0 / 670.0	4.47	13C2-PFDA	515.0 / 470.0	65473.33	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	19659.10	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	19659.10	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	19659.10	239.25

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:16:51	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	26543.28	232.25
PFBS 2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	26543.28	232.25
PFHxA 1	313.0 / 269.0	1.91	13C5-PFHxA	318.0 / 273.0	62579.70	250.00
PFHxA 2	313.0 / 119.0	1.91	13C5-PFHxA	318.0 / 273.0	62579.70	250.00
PFHpA 1	363.0 / 319.0	2.33	13C4-PFHpA	367.0 / 322.0	69859.85	250.00
PFHpA 2	363.0 / 169.0	2.32	13C4-PFHpA	367.0 / 322.0	69859.85	250.00
PFHxS 1	399.0 / 80.0	2.35	13C3-PFHxS	402.0 / 99.0	24467.83	236.50
PFHxS 2	399.0 / 99.0	2.35	13C3-PFHxS	402.0 / 99.0	24467.83	236.50
PFOA 1	413.0 / 369.0	2.74	13C8-PFOA	421.0 / 376.0	86658.98	250.00
PFOA 2	413.0 / 169.0	2.74	13C8-PFOA	421.0 / 376.0	86658.98	250.00
PFNA 1	463.0 / 419.0	3.14	13C9-PFNA	472.0 / 427.0	88035.85	250.00
PFNA 2	463.0 / 219.0	3.14	13C9-PFNA	472.0 / 427.0	88035.85	250.00
PFOS 1	499.0 / 80.0	3.14	13C8-PFOS	507.0 / 99.0	30825.96	239.25
PFOS 2	499.0 / 99.0	3.14	13C8-PFOS	507.0 / 99.0	30825.96	239.25
PFDA 1	513.0 / 469.0	3.50	13C6-PFDA	519.0 / 474.0	97968.15	250.00
PFDA 2	513.0 / 219.0	3.50	13C6-PFDA	519.0 / 474.0	97968.15	250.00
PFUnA 1	563.0 / 519.0	3.83	13C7-PFUnA	570.0 / 525.0	93214.36	250.00
PFUnA 2	563.0 / 269.0	3.83	13C7-PFUnA	570.0 / 525.0	93214.36	250.00
PFDoA 1	613.0 / 569.0	4.11	13C2-PFDoA	615.0 / 570.0	91153.41	250.00
PFDoA 2	613.0 / 319.0	4.11	13C2-PFDoA	615.0 / 570.0	91153.41	250.00
PFTrDA 1	663.0 / 619.0	4.36	13C2-PFTeDA	715.0 / 670.0	82671.66	250.00
PFTrDA 2	663.0 / 169.0	4.36	13C2-PFTeDA	715.0 / 670.0	82671.66	250.00
PFTeDA 1	713.0 / 669.0	4.58	13C2-PFTeDA	715.0 / 670.0	82671.66	250.00
PFTeDA 2	713.0 / 169.0	4.58	13C2-PFTeDA	715.0 / 670.0	82671.66	250.00
NMeFOSAA 1	570.0 / 419.0	3.66	d3-MeFOSAA	573.0 / 419.0	14257.30	250.00
NMeFOSAA 2	570.0 / 512.0	3.66	d3-MeFOSAA	573.0 / 419.0	14257.30	250.00
NEtFOSAA 1	584.0 / 419.0	3.82	d5-EtFOSAA	589.0 / 419.0	16047.60	250.00
NEtFOSAA 2	584.0 / 483.0	3.81	d5-EtFOSAA	589.0 / 419.0	16047.60	250.00

Sample Name	KB76 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:38:12	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.55	13C3-PFBS	302.0 / 99.0	27347.65	232.25
PFBS 2	298.9 / 99.0	1.55	13C3-PFBS	302.0 / 99.0	27347.65	232.25
PFHxA 1	313.0 / 269.0	1.87	13C5-PFHxA	318.0 / 273.0	55992.85	250.00
PFHxA 2	313.0 / 119.0	1.88	13C5-PFHxA	318.0 / 273.0	55992.85	250.00
PFHpA 1	363.0 / 319.0	2.29	13C4-PFHpA	367.0 / 322.0	65453.53	250.00
PFHpA 2	363.0 / 169.0	2.28	13C4-PFHpA	367.0 / 322.0	65453.53	250.00
PFHxS 1	399.0 / 80.0	2.31	13C3-PFHxS	402.0 / 99.0	22621.36	236.50
PFHxS 2	399.0 / 99.0	2.31	13C3-PFHxS	402.0 / 99.0	22621.36	236.50
PFOA 1	413.0 / 369.0	2.70	13C8-PFOA	421.0 / 376.0	86129.20	250.00
PFOA 2	413.0 / 169.0	2.70	13C8-PFOA	421.0 / 376.0	86129.20	250.00
PFNA 1	463.0 / 419.0	3.09	13C9-PFNA	472.0 / 427.0	89878.65	250.00
PFNA 2	463.0 / 219.0	3.09	13C9-PFNA	472.0 / 427.0	89878.65	250.00
PFOS 1	499.0 / 80.0	3.09	13C8-PFOS	507.0 / 99.0	29216.40	239.25
PFOS 2	499.0 / 99.0	3.09	13C8-PFOS	507.0 / 99.0	29216.40	239.25
PFDA 1	513.0 / 469.0	3.45	13C6-PFDA	519.0 / 474.0	91683.61	250.00
PFDA 2	513.0 / 219.0	3.45	13C6-PFDA	519.0 / 474.0	91683.61	250.00
PFUnA 1	563.0 / 519.0	3.77	13C7-PFUnA	570.0 / 525.0	85031.52	250.00
PFUnA 2	563.0 / 269.0	3.77	13C7-PFUnA	570.0 / 525.0	85031.52	250.00
PFDoA 1	613.0 / 569.0	4.05	13C2-PFDoA	615.0 / 570.0	87957.23	250.00
PFDoA 2	613.0 / 319.0	4.05	13C2-PFDoA	615.0 / 570.0	87957.23	250.00
PFTeDA 1	663.0 / 619.0	4.29	13C2-PFTeDA	715.0 / 670.0	72482.00	250.00
PFTeDA 2	663.0 / 169.0	4.29	13C2-PFTeDA	715.0 / 670.0	72482.00	250.00
PFTeDA 1	713.0 / 669.0	4.51	13C2-PFTeDA	715.0 / 670.0	72482.00	250.00
PFTeDA 2	713.0 / 169.0	4.50	13C2-PFTeDA	715.0 / 670.0	72482.00	250.00
NMeFOSAA 1	570.0 / 419.0	3.60	d3-MeFOSAA	573.0 / 419.0	11210.49	250.00
NMeFOSAA 2	570.0 / 512.0	3.60	d3-MeFOSAA	573.0 / 419.0	11210.49	250.00
NEtFOSAA 1	584.0 / 419.0	3.76	d5-EtFOSAA	589.0 / 419.0	12487.00	250.00
NEtFOSAA 2	584.0 / 483.0	3.76	d5-EtFOSAA	589.0 / 419.0	12487.00	250.00

Sample Name	KB77 CCV	Injection Vial	22
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:26:52	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.55	13C3-PFBS	302.0 / 99.0	23074.39	232.25
PFBS 2	298.9 / 99.0	1.55	13C3-PFBS	302.0 / 99.0	23074.39	232.25
PFHxA 1	313.0 / 269.0	1.87	13C5-PFHxA	318.0 / 273.0	45443.87	250.00
PFHxA 2	313.0 / 119.0	1.87	13C5-PFHxA	318.0 / 273.0	45443.87	250.00
PFHpA 1	363.0 / 319.0	2.28	13C4-PFHpA	367.0 / 322.0	57600.50	250.00
PFHpA 2	363.0 / 169.0	2.28	13C4-PFHpA	367.0 / 322.0	57600.50	250.00
PFHxS 1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	19101.33	236.50
PFHxS 2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	19101.33	236.50
PFOA 1	413.0 / 369.0	2.69	13C8-PFOA	421.0 / 376.0	69156.30	250.00
PFOA 2	413.0 / 169.0	2.69	13C8-PFOA	421.0 / 376.0	69156.30	250.00
PFNA 1	463.0 / 419.0	3.09	13C9-PFNA	472.0 / 427.0	74735.18	250.00
PFNA 2	463.0 / 219.0	3.09	13C9-PFNA	472.0 / 427.0	74735.18	250.00
PFOS 1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	23423.82	239.25
PFOS 2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	23423.82	239.25
PFDA 1	513.0 / 469.0	3.44	13C6-PFDA	519.0 / 474.0	76731.26	250.00
PFDA 2	513.0 / 219.0	3.44	13C6-PFDA	519.0 / 474.0	76731.26	250.00
PFUnA 1	563.0 / 519.0	3.76	13C7-PFUnA	570.0 / 525.0	72552.39	250.00
PFUnA 2	563.0 / 269.0	3.76	13C7-PFUnA	570.0 / 525.0	72552.39	250.00
PFDoA 1	613.0 / 569.0	4.04	13C2-PFDoA	615.0 / 570.0	78619.39	250.00
PFDoA 2	613.0 / 319.0	4.04	13C2-PFDoA	615.0 / 570.0	78619.39	250.00
PFTeDA 1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	64241.58	250.00
PFTeDA 2	663.0 / 169.0	4.28	13C2-PFTeDA	715.0 / 670.0	64241.58	250.00
PFTeDA 1	713.0 / 669.0	4.49	13C2-PFTeDA	715.0 / 670.0	64241.58	250.00
PFTeDA 2	713.0 / 169.0	4.49	13C2-PFTeDA	715.0 / 670.0	64241.58	250.00
NMeFOSAA 1	570.0 / 419.0	3.59	d3-MeFOSAA	573.0 / 419.0	9788.76	250.00
NMeFOSAA 2	570.0 / 512.0	3.59	d3-MeFOSAA	573.0 / 419.0	9788.76	250.00
NEtFOSAA 1	584.0 / 419.0	3.75	d5-EtFOSAA	589.0 / 419.0	12210.39	250.00
NEtFOSAA 2	584.0 / 483.0	3.75	d5-EtFOSAA	589.0 / 419.0	12210.39	250.00

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:16:51	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.10	13C2-PFDA	515.0 / 470.0	90191.16	250.00
d3-MeFOSAA	573.0 / 419.0	3.65	13C4-PFOS	503.0 / 99.0	31112.11	239.25
d5-EtFOSAA	589.0 / 419.0	3.81	13C4-PFOS	503.0 / 99.0	31112.11	239.25
13C5-PFHxA	318.0 / 273.0	1.89	13C2-PFOA	415.0 / 370.0	81344.96	250.00
13C4-PFHpA	367.0 / 322.0	2.31	13C2-PFOA	415.0 / 370.0	81344.96	250.00
13C8-PFOA	421.0 / 376.0	2.73	13C2-PFOA	415.0 / 370.0	81344.96	250.00
13C9-PFNA	472.0 / 427.0	3.13	13C2-PFOA	415.0 / 370.0	81344.96	250.00
13C6-PFDA	519.0 / 474.0	3.49	13C2-PFDA	515.0 / 470.0	90191.16	250.00
13C7-PFUnA	570.0 / 525.0	3.81	13C2-PFDA	515.0 / 470.0	90191.16	250.00
13C2-PFTeDA	715.0 / 670.0	4.57	13C2-PFDA	515.0 / 470.0	90191.16	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	31112.11	239.25
13C3-PFHxS	402.0 / 99.0	2.34	13C4-PFOS	503.0 / 99.0	31112.11	239.25
13C8-PFOS	507.0 / 99.0	3.13	13C4-PFOS	503.0 / 99.0	31112.11	239.25



Sample Name	KB76 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:38:12	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.04	13C2-PFDA	515.0 / 470.0	87976.17	250.00
d3-MeFOSAA	573.0 / 419.0	3.60	13C4-PFOS	503.0 / 99.0	28068.56	239.25
d5-EtFOSAA	589.0 / 419.0	3.76	13C4-PFOS	503.0 / 99.0	28068.56	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	80189.24	250.00
13C4-PFHpA	367.0 / 322.0	2.28	13C2-PFOA	415.0 / 370.0	80189.24	250.00
13C8-PFOA	421.0 / 376.0	2.69	13C2-PFOA	415.0 / 370.0	80189.24	250.00
13C9-PFNA	472.0 / 427.0	3.08	13C2-PFOA	415.0 / 370.0	80189.24	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	87976.17	250.00
13C7-PFUnA	570.0 / 525.0	3.75	13C2-PFDA	515.0 / 470.0	87976.17	250.00
13C2-PFTeDA	715.0 / 670.0	4.50	13C2-PFDA	515.0 / 470.0	87976.17	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	28068.56	239.25
13C3-PFHxS	402.0 / 99.0	2.30	13C4-PFOS	503.0 / 99.0	28068.56	239.25
13C8-PFOS	507.0 / 99.0	3.08	13C4-PFOS	503.0 / 99.0	28068.56	239.25

Sample Name	KB77 CCV	Injection Vial	22
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:26:52	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	80687.13	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	26760.63	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	26760.63	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	68235.47	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	68235.47	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	68235.47	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	68235.47	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	80687.13	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	80687.13	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	80687.13	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	26760.63	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	26760.63	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	26760.63	239.25

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:42:12	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	27259.35	232.25
PFBS 2	298.9 / 99.0	1.56	13C3-PFBS	302.0 / 99.0	27259.35	232.25
PFHxA 1	313.0 / 269.0	1.89	13C5-PFHxA	318.0 / 273.0	60936.58	250.00
PFHxA 2	313.0 / 119.0	1.89	13C5-PFHxA	318.0 / 273.0	60936.58	250.00
PFHpA 1	363.0 / 319.0	2.31	13C4-PFHpA	367.0 / 322.0	75548.44	250.00
PFHpA 2	363.0 / 169.0	2.31	13C4-PFHpA	367.0 / 322.0	75548.44	250.00
PFHxS 1	399.0 / 80.0	2.33	13C3-PFHxS	402.0 / 99.0	25845.51	236.50
PFHxS 2	399.0 / 99.0	2.33	13C3-PFHxS	402.0 / 99.0	25845.51	236.50
PFOA 1	413.0 / 369.0	2.72	13C8-PFOA	421.0 / 376.0	84882.91	250.00
PFOA 2	413.0 / 169.0	2.72	13C8-PFOA	421.0 / 376.0	84882.91	250.00
PFNA 1	463.0 / 419.0	3.12	13C9-PFNA	472.0 / 427.0	90887.01	250.00
PFNA 2	463.0 / 219.0	3.12	13C9-PFNA	472.0 / 427.0	90887.01	250.00
PFOS 1	499.0 / 80.0	3.12	13C8-PFOS	507.0 / 99.0	31018.49	239.25
PFOS 2	499.0 / 99.0	3.12	13C8-PFOS	507.0 / 99.0	31018.49	239.25
PFDA 1	513.0 / 469.0	3.48	13C6-PFDA	519.0 / 474.0	101262.05	250.00
PFDA 2	513.0 / 219.0	3.49	13C6-PFDA	519.0 / 474.0	101262.05	250.00
PFUnA 1	563.0 / 519.0	3.81	13C7-PFUnA	570.0 / 525.0	90628.52	250.00
PFUnA 2	563.0 / 269.0	3.81	13C7-PFUnA	570.0 / 525.0	90628.52	250.00
PFDoA 1	613.0 / 569.0	4.09	13C2-PFDoA	615.0 / 570.0	103849.19	250.00
PFDoA 2	613.0 / 319.0	4.09	13C2-PFDoA	615.0 / 570.0	103849.19	250.00
PFTrDA 1	663.0 / 619.0	4.34	13C2-PFTeDA	715.0 / 670.0	85433.28	250.00
PFTrDA 2	663.0 / 169.0	4.34	13C2-PFTeDA	715.0 / 670.0	85433.28	250.00
PFTeDA 1	713.0 / 669.0	4.56	13C2-PFTeDA	715.0 / 670.0	85433.28	250.00
PFTeDA 2	713.0 / 169.0	4.56	13C2-PFTeDA	715.0 / 670.0	85433.28	250.00
NMeFOSAA 1	570.0 / 419.0	3.64	d3-MeFOSAA	573.0 / 419.0	15012.11	250.00
NMeFOSAA 2	570.0 / 512.0	3.64	d3-MeFOSAA	573.0 / 419.0	15012.11	250.00
NEtFOSAA 1	584.0 / 419.0	3.80	d5-EtFOSAA	589.0 / 419.0	16279.77	250.00
NEtFOSAA 2	584.0 / 483.0	3.80	d5-EtFOSAA	589.0 / 419.0	16279.77	250.00
PFBA	213.0 / 169.0	1.16	13C4-PFBA	217.0 / 172.0	80989.89	250.00
PFPeA	263.0 / 219.0	1.49	13C5-PFPeA	268.0 / 223.0	76964.75	250.00
PFHpS 1	449.0 / 80.0	2.73	13C8-PFOA	421.0 / 376.0	84882.91	250.00
PFHpS 2	449.0 / 99.0	2.73	13C8-PFOA	421.0 / 376.0	84882.91	250.00
PFDS 1	599.0 / 80.0	3.78	13C7-PFUnA	570.0 / 525.0	90628.52	250.00
PFDS 2	599.0 / 99.0	3.78	13C7-PFUnA	570.0 / 525.0	90628.52	250.00
4:2FTS 1	327.0 / 307.0	1.83	13C2-4:2FTS	329.0 / 81.0	6722.14	233.75
4:2FTS 2	327.0 / 80.0	1.83	13C2-4:2FTS	329.0 / 81.0	6722.14	233.75
6:2FTS 1	427.0 / 407.0	2.68	13C2-6:2FTS	429.0 / 81.0	14204.10	237.25
6:2FTS 2	427.0 / 81.0	2.68	13C2-6:2FTS	429.0 / 81.0	14204.10	237.25
8:2FTS 1	527.0 / 507.0	3.46	13C2-8:2 FTS	529.0 / 81.0	16279.30	239.50
8:2FTS 2	527.0 / 487.0	3.46	13C2-8:2 FTS	529.0 / 81.0	16279.30	239.50
PFPeS 1	349.0 / 99.0	1.93	13C5-PFHxA	318.0 / 273.0	60936.58	250.00
PFPeS 2	349.0 / 80.0	1.92	13C5-PFHxA	318.0 / 273.0	60936.58	250.00
PFNS 1	549.0 / 99.0	3.46	13C6-PFDA	519.0 / 474.0	101262.05	250.00
PFNS 2	549.0 / 80.0	3.46	13C6-PFDA	519.0 / 474.0	101262.05	250.00

Sample Name	KB77 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T20:52:42	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS 1	298.9 / 80.0	1.55	13C3-PFBS	302.0 / 99.0	28600.23	232.25
PFBS 2	298.9 / 99.0	1.55	13C3-PFBS	302.0 / 99.0	28600.23	232.25
PFHxA 1	313.0 / 269.0	1.87	13C5-PFHxA	318.0 / 273.0	67215.59	250.00
PFHxA 2	313.0 / 119.0	1.87	13C5-PFHxA	318.0 / 273.0	67215.59	250.00
PFHpA 1	363.0 / 319.0	2.28	13C4-PFHpA	367.0 / 322.0	72984.11	250.00
PFHpA 2	363.0 / 169.0	2.28	13C4-PFHpA	367.0 / 322.0	72984.11	250.00
PFHxS 1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	25950.23	236.50
PFHxS 2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	25950.23	236.50
PFOA 1	413.0 / 369.0	2.70	13C8-PFOA	421.0 / 376.0	91266.81	250.00
PFOA 2	413.0 / 169.0	2.69	13C8-PFOA	421.0 / 376.0	91266.81	250.00
PFNA 1	463.0 / 419.0	3.09	13C9-PFNA	472.0 / 427.0	91277.86	250.00
PFNA 2	463.0 / 219.0	3.09	13C9-PFNA	472.0 / 427.0	91277.86	250.00
PFOS 1	499.0 / 80.0	3.09	13C8-PFOS	507.0 / 99.0	27580.06	239.25
PFOS 2	499.0 / 99.0	3.09	13C8-PFOS	507.0 / 99.0	27580.06	239.25
PFDA 1	513.0 / 469.0	3.45	13C6-PFDA	519.0 / 474.0	99925.67	250.00
PFDA 2	513.0 / 219.0	3.45	13C6-PFDA	519.0 / 474.0	99925.67	250.00
PFUnA 1	563.0 / 519.0	3.77	13C7-PFUnA	570.0 / 525.0	97081.19	250.00
PFUnA 2	563.0 / 269.0	3.77	13C7-PFUnA	570.0 / 525.0	97081.19	250.00
PFDoA 1	613.0 / 569.0	4.04	13C2-PFDoA	615.0 / 570.0	108707.47	250.00
PFDoA 2	613.0 / 319.0	4.04	13C2-PFDoA	615.0 / 570.0	108707.47	250.00
PFTrDA 1	663.0 / 619.0	4.29	13C2-PFTeDA	715.0 / 670.0	97980.28	250.00
PFTrDA 2	663.0 / 169.0	4.28	13C2-PFTeDA	715.0 / 670.0	97980.28	250.00
PFTeDA 1	713.0 / 669.0	4.50	13C2-PFTeDA	715.0 / 670.0	97980.28	250.00
PFTeDA 2	713.0 / 169.0	4.50	13C2-PFTeDA	715.0 / 670.0	97980.28	250.00
NMeFOSAA 1	570.0 / 419.0	3.60	d3-MeFOSAA	573.0 / 419.0	18000.47	250.00
NMeFOSAA 2	570.0 / 512.0	3.60	d3-MeFOSAA	573.0 / 419.0	18000.47	250.00
NEtFOSAA 1	584.0 / 419.0	3.76	d5-EtFOSAA	589.0 / 419.0	15444.61	250.00
NEtFOSAA 2	584.0 / 483.0	3.76	d5-EtFOSAA	589.0 / 419.0	15444.61	250.00
PFBA	213.0 / 169.0	1.15	13C4-PFBA	217.0 / 172.0	86940.27	250.00
PFPeA	263.0 / 219.0	1.47	13C5-PFPeA	268.0 / 223.0	78054.52	250.00
PFHpS 1	449.0 / 80.0	2.70	13C8-PFOA	421.0 / 376.0	91266.81	250.00
PFHpS 2	449.0 / 99.0	2.70	13C8-PFOA	421.0 / 376.0	91266.81	250.00
PFDS 1	599.0 / 80.0	3.74	13C7-PFUnA	570.0 / 525.0	97081.19	250.00
PFDS 2	599.0 / 99.0	3.74	13C7-PFUnA	570.0 / 525.0	97081.19	250.00
4:2FTS 1	327.0 / 307.0	1.81	13C2-4:2FTS	329.0 / 81.0	6751.72	233.75
4:2FTS 2	327.0 / 80.0	1.81	13C2-4:2FTS	329.0 / 81.0	6751.72	233.75
6:2FTS 1	427.0 / 407.0	2.66	13C2-6:2FTS	429.0 / 81.0	14710.40	237.25
6:2FTS 2	427.0 / 81.0	2.65	13C2-6:2FTS	429.0 / 81.0	14710.40	237.25
8:2FTS 1	527.0 / 507.0	3.42	13C2-8:2 FTS	529.0 / 81.0	19128.24	239.50
8:2FTS 2	527.0 / 487.0	3.42	13C2-8:2 FTS	529.0 / 81.0	19128.24	239.50
PFPeS 1	349.0 / 99.0	1.91	13C5-PFHxA	318.0 / 273.0	67215.59	250.00
PFPeS 2	349.0 / 80.0	1.90	13C5-PFHxA	318.0 / 273.0	67215.59	250.00
PFNS 1	549.0 / 99.0	3.42	13C6-PFDA	519.0 / 474.0	99925.67	250.00
PFNS 2	549.0 / 80.0	3.42	13C6-PFDA	519.0 / 474.0	99925.67	250.00

Sample Name	KB75 ISC	Injection Vial	1
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:42:12	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	53701.55	250.00
13C2-PFDoA	615.0 / 570.0	4.08	13C2-PFDA	515.0 / 470.0	101028.84	250.00
d3-MeFOSAA	573.0 / 419.0	3.63	13C4-PFOS	503.0 / 99.0	28461.06	239.25
d5-EtFOSAA	589.0 / 419.0	3.79	13C4-PFOS	503.0 / 99.0	28461.06	239.25
13C5-PFPeA	268.0 / 223.0	1.48	13C3-PFBA	216.0 / 172.0	53701.55	250.00
13C5-PFHxA	318.0 / 273.0	1.88	13C2-PFOA	415.0 / 370.0	85064.04	250.00
13C4-PFHpA	367.0 / 322.0	2.30	13C2-PFOA	415.0 / 370.0	85064.04	250.00
13C8-PFOA	421.0 / 376.0	2.71	13C2-PFOA	415.0 / 370.0	85064.04	250.00
13C9-PFNA	472.0 / 427.0	3.11	13C2-PFOA	415.0 / 370.0	85064.04	250.00
13C6-PFDA	519.0 / 474.0	3.47	13C2-PFDA	515.0 / 470.0	101028.84	250.00
13C7-PFUaA	570.0 / 525.0	3.79	13C2-PFDA	515.0 / 470.0	101028.84	250.00
13C2-PFTeDA	715.0 / 670.0	4.55	13C2-PFDA	515.0 / 470.0	101028.84	250.00
13C3-PFBS	302.0 / 99.0	1.54	13C4-PFOS	503.0 / 99.0	28461.06	239.25
13C3-PFHxS	402.0 / 99.0	2.32	13C4-PFOS	503.0 / 99.0	28461.06	239.25
13C8-PFOS	507.0 / 99.0	3.11	13C4-PFOS	503.0 / 99.0	28461.06	239.25
13C2-4:2FTS	329.0 / 81.0	1.83	13C4-PFOS	503.0 / 99.0	28461.06	239.25
13C2-6:2FTS	429.0 / 81.0	2.68	13C4-PFOS	503.0 / 99.0	28461.06	239.25
13C2-8:2FTS	529.0 / 81.0	3.46	13C4-PFOS	503.0 / 99.0	28461.06	239.25

Sample Name	KB77 CCV	Injection Vial	13
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T20:52:42	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.15	13C3-PFBA	216.0 / 172.0	57203.03	250.00
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	102646.04	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	30197.62	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	30197.62	239.25
13C5-PFPeA	268.0 / 223.0	1.47	13C3-PFBA	216.0 / 172.0	57203.03	250.00
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	92193.68	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	92193.68	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	92193.68	250.00
13C9-PFNA	472.0 / 427.0	3.08	13C2-PFOA	415.0 / 370.0	92193.68	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	102646.04	250.00
13C7-PFUnA	570.0 / 525.0	3.75	13C2-PFDA	515.0 / 470.0	102646.04	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	102646.04	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	30197.62	239.25
13C3-PFHxS	402.0 / 99.0	2.30	13C4-PFOS	503.0 / 99.0	30197.62	239.25
13C8-PFOS	507.0 / 99.0	3.08	13C4-PFOS	503.0 / 99.0	30197.62	239.25
13C2-4:2FTS	329.0 / 81.0	1.81	13C4-PFOS	503.0 / 99.0	30197.62	239.25
13C2-6:2FTS	429.0 / 81.0	2.65	13C4-PFOS	503.0 / 99.0	30197.62	239.25
13C2-8:2FTS	529.0 / 81.0	3.42	13C4-PFOS	503.0 / 99.0	30197.62	239.25

# Raw Analytical Data

Sample Name	KB80 IB	Injection Vial	9
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:02:57	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.57	4270.08	7.967207	23.4	true
PFBS_2	298.9 / 99.0	1.57	1751.65	15.187213	22.1	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	3.11	5116.99	< 0	29.4	false
PFNA_2	463.0 / 219.0	3.11	1412.81	< 0	28.4	false
PFOS_1	499.0 / 80.0	3.10	10007.21	20.457445	28.3	false
PFOS_2	499.0 / 99.0	3.11	2107.71	23.036162	36.0	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	4.08	4132.45	< 0	50.7	false
PFDoA_2	613.0 / 319.0	4.08	648.21	< 0	25.1	false
PFTTrDA_1	663.0 / 619.0	4.32	3827.82	< 0	101.8	false
PFTTrDA_2	663.0 / 169.0	4.34	292.14	< 0	21.8	false
PFTeDA_1	713.0 / 669.0	4.54	4005.90	< 0	149.6	false
PFTeDA_2	713.0 / 169.0	4.54	211.66	< 0	28.3	false
NMeFOSAA_1	570.0 / 419.0	3.63	1091.61	< 0	277.3	false
NMeFOSAA_2	570.0 / 512.0	3.61	558.08	< 0	27.6	false
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true



Sample Name	CR900PB-FS(0)	Injection Vial	31
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:12:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	5192.31	10.438423	28.9	true
PFBS_2	298.9 / 99.0	1.54	1838.04	15.574906	21.4	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	2.68	120885.36	348.462383	139.2	true
PFOA_2	413.0 / 169.0	2.68	6034.06	265.070135	108.1	false
PFNA_1	463.0 / 419.0	3.08	6961.22	< 0	29.7	false
PFNA_2	463.0 / 219.0	3.08	1734.54	< 0	29.9	false
PFOS_1	499.0 / 80.0	3.08	28197.53	52.486868	79.1	false
PFOS_2	499.0 / 99.0	3.08	6946.92	72.334748	74.3	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	CR901LCS-FS(0)	Injection Vial	32
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:23:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.55	2653960.68	8114.615946	1435.8	false
PFBS_2	298.9 / 99.0	1.55	777303.81	8094.475970	1207.2	false
PFHxA_1	313.0 / 269.0	1.87	1849728.01	8432.763637	78.7	false
PFHxA_2	313.0 / 119.0	1.87	136616.05	8345.282548	49.3	false
PFHpA_1	363.0 / 319.0	2.27	1682694.36	8369.708807	395.9	false
PFHpA_2	363.0 / 169.0	2.27	34507.14	8043.171290	352.5	false
PFHxS_1	399.0 / 80.0	2.30	2616609.22	8889.893927	898.7	false
PFHxS_2	399.0 / 99.0	2.30	741203.38	9027.459180	990.5	false
PFOA_1	413.0 / 369.0	2.68	2617320.43	8986.498035	600.3	false
PFOA_2	413.0 / 169.0	2.68	167150.49	8837.889773	837.7	false
PFNA_1	463.0 / 419.0	3.08	2436382.26	9030.804730	834.3	true
PFNA_2	463.0 / 219.0	3.08	799074.09	9603.091650	1013.6	false
PFOS_1	499.0 / 80.0	3.08	4043080.07	7726.514356	637.2	false
PFOS_2	499.0 / 99.0	3.08	706155.90	7772.120044	952.3	false
PFDA_1	513.0 / 469.0	3.44	2776138.61	7971.025187	1009.1	false
PFDA_2	513.0 / 219.0	3.44	118809.01	8279.657859	808.2	false
PFUnA_1	563.0 / 519.0	3.76	2713957.28	7772.548341	687.5	false
PFUnA_2	563.0 / 269.0	3.76	142980.99	8235.630737	559.7	false
PFDoA_1	613.0 / 569.0	4.04	2535724.22	8242.583123	753.9	false
PFDoA_2	613.0 / 319.0	4.04	410788.87	8573.235940	833.0	false
PFTrDA_1	663.0 / 619.0	4.29	2216828.43	8490.770143	1387.8	false
PFTrDA_2	663.0 / 169.0	4.29	149602.24	8721.620286	981.5	false
PFTeDA_1	713.0 / 669.0	4.50	2560349.13	8656.334187	2312.5	false
PFTeDA_2	713.0 / 169.0	4.50	125114.40	8738.126528	1749.1	false
NMeFOSAA_1	570.0 / 419.0	3.59	502879.07	8483.606849	1303.1	false
NMeFOSAA_2	570.0 / 512.0	3.59	286254.66	8914.512687	991.8	false
NEtFOSAA_1	584.0 / 419.0	3.76	436826.89	8416.211664	1042.5	false
NEtFOSAA_2	584.0 / 483.0	3.75	26553.59	8752.713947	435.7	false

Sample Name	J8455-FS(0)	Injection Vial	33
Sample ID	VC-SO-FB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:34:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.30	4794.89	< 0	21.9	false
PFHxS_2	399.0 / 99.0	2.30	1801.55	< 0	19.5	false
PFOA_1	413.0 / 369.0	2.68	113419.39	314.693494	139.0	false
PFOA_2	413.0 / 169.0	2.68	6853.67	292.508245	129.7	false
PFNA_1	463.0 / 419.0	3.08	3754.18	< 0	21.0	false
PFNA_2	463.0 / 219.0	3.10	913.74	< 0	14.5	false
PFOS_1	499.0 / 80.0	3.08	30331.41	54.523620	75.5	false
PFOS_2	499.0 / 99.0	3.08	4892.23	49.382735	110.0	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.28	1968.24	< 0	58.4	true
PFTrDA_2	663.0 / 169.0	4.29	288.97	< 0	17.6	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8456-FS(0)	Injection Vial	34
Sample ID	VC-SO-EB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:45:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.55	6863.62	15.969617	32.6	true
PFBS_2	298.9 / 99.0	1.54	2126.55	19.003329	24.0	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.30	152739.42	1.700274	301.2	false
PFHxS_2	399.0 / 99.0	2.30	43713.83	1.725603	267.8	false
PFOA_1	413.0 / 369.0	2.68	190730.76	520.665655	172.2	false
PFOA_2	413.0 / 169.0	2.68	13304.93	561.148461	144.2	false
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	1594626.52	2968.531796	430.4	false
PFOS_2	499.0 / 99.0	3.08	262168.52	2810.009982	665.3	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTTrDA_1	663.0 / 619.0	4.29	2338.84	< 0	51.6	false
PFTTrDA_2	663.0 / 169.0	4.29	232.27	< 0	14.5	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8457-FS(0)	Injection Vial	35
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:56:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	79211755.17	232279.856415	812.7	false
PFBS_2	298.9 / 99.0	1.54	31537028.32	314900.963586	1343.7	false
PFHxA_1	313.0 / 269.0	1.85	107124312.48	492597.511002	266.4	false
PFHxA_2	313.0 / 119.0	1.86	16079149.59	992780.263953	508.8	false
PFHpA_1	363.0 / 319.0	2.26	45246874.67	260050.352850	728.4	false
PFHpA_2	363.0 / 169.0	2.26	1094735.79	297371.557168	787.6	false
PFHxS_1	399.0 / 80.0	2.24	145594298.08	655439.077985	311.5	false
PFHxS_2	399.0 / 99.0	2.29	117107261.85	1890971.329918	783.1	false
PFOA_1	413.0 / 369.0	2.66	108557814.46	539473.532602	712.6	false
PFOA_2	413.0 / 169.0	2.67	8912922.34	682049.090523	710.8	true
PFNA_1	463.0 / 419.0	3.08	1407205.52	10675.763654	333.4	false
PFNA_2	463.0 / 219.0	3.08	459366.55	11297.895990	335.0	false
PFOS_1	499.0 / 80.0	2.99	195493510.67	834867.054516	403.0	false
PFOS_2	499.0 / 99.0	3.08	71019024.86	1747050.346680	2023.4	false
PFDA_1	513.0 / 469.0	3.43	127157.27	353.024495	133.4	false
PFDA_2	513.0 / 219.0	3.42	5813.98	391.940051	94.1	true
PFUnA_1	563.0 / 519.0	3.75	20375.70	48.128878	72.5	false
PFUnA_2	563.0 / 269.0	3.73	984.81	56.601878	28.1	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.29	3327.28	< 0	85.1	false
PFTrDA_2	663.0 / 169.0	4.29	262.65	< 0	25.4	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8457-FS-D(3)	Injection Vial	36
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:07:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	4940395.79	11475.243051	827.7	true
PFBS_2	298.9 / 99.0	1.54	1508919.54	11936.243137	895.0	true
PFHxA_1	313.0 / 269.0	1.86	11424654.37	43989.815427	126.9	false
PFHxA_2	313.0 / 119.0	1.86	750117.31	38759.725199	152.5	false
PFHpA_1	363.0 / 319.0	2.27	2675418.70	10078.977224	411.3	false
PFHpA_2	363.0 / 169.0	2.27	62941.84	11141.382138	405.4	false
PFHxS_1	399.0 / 80.0	2.30	32747015.27	99292.994402	1324.7	false
PFHxS_2	399.0 / 99.0	2.30	9974624.40	108476.499311	1664.5	false
PFOA_1	413.0 / 369.0	2.68	10055532.74	30555.076746	964.7	false
PFOA_2	413.0 / 169.0	2.67	491454.05	22992.582501	575.5	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.08	30857806.48	54821.473779	677.9	false
PFOS_2	499.0 / 99.0	3.08	5199033.01	53203.939488	1699.5	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8457-FS-D(5)	Injection Vial	37
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:18:02	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.86	5261154.76	22138.281716	105.3	false
PFHxA_2	313.0 / 119.0	1.86	339991.62	19187.675907	108.6	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	15920369.73	54649.828581	966.5	false
PFHxS_2	399.0 / 99.0	2.29	4546352.19	55971.599593	1139.5	false
PFOA_1	413.0 / 369.0	2.68	5027609.35	14998.344912	704.9	false
PFOA_2	413.0 / 169.0	2.68	237376.66	10901.037246	552.0	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.08	15679311.98	28272.185828	686.2	false
PFOS_2	499.0 / 99.0	3.08	2700646.34	28049.503968	1237.8	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8457-FS-D(7)	Injection Vial	38
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:28:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.86	2242047.35	8455.972762	65.5	false
PFHxA_2	313.0 / 119.0	1.86	144539.26	7297.926954	66.0	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	6906502.25	16888.995006	947.1	false
PFHxS_2	399.0 / 99.0	2.29	1940442.33	17014.648146	972.4	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.08	6963537.72	11349.109891	641.9	false
PFOS_2	499.0 / 99.0	3.08	1259327.79	11821.238642	1342.6	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true



Sample Name	J8458-FS(0)	Injection Vial	41
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:01:33	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.53	54199259.89	135319.731365	1184.9	false
PFBS_2	298.9 / 99.0	1.53	17762050.86	151005.957764	2290.8	false
PFHxA_1	313.0 / 269.0	1.85	78238801.00	321307.407571	301.6	false
PFHxA_2	313.0 / 119.0	1.85	6710135.46	369993.562141	389.4	false
PFHpA_1	363.0 / 319.0	2.26	23723017.42	110526.729581	823.4	false
PFHpA_2	363.0 / 169.0	2.25	526131.11	115811.416127	850.9	false
PFHxS_1	399.0 / 80.0	2.27	120485675.27	405696.481363	709.0	false
PFHxS_2	399.0 / 99.0	2.29	61933086.79	747999.005408	1329.6	false
PFOA_1	413.0 / 369.0	2.67	54669120.57	224218.361376	1261.0	false
PFOA_2	413.0 / 169.0	2.66	3395996.65	214476.611838	838.1	false
PFNA_1	463.0 / 419.0	3.08	498747.25	2771.992328	344.7	false
PFNA_2	463.0 / 219.0	3.07	159247.88	2872.850042	274.8	false
PFOS_1	499.0 / 80.0	3.00	174553264.84	482384.220622	519.7	false
PFOS_2	499.0 / 99.0	3.08	38959478.18	620188.175029	1487.2	false
PFDA_1	513.0 / 469.0	3.43	57057.13	141.240736	119.9	false
PFDA_2	513.0 / 219.0	3.43	1048.71	48.816218	35.9	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.28	1456.93	< 0	48.8	false
PFTrDA_2	663.0 / 169.0	4.29	107.01	< 0	11.3	false
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8458-FS-D(3)	Injection Vial	42
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:12:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	2199325.74	5624.881093	1050.1	true
PFBS_2	298.9 / 99.0	1.54	649170.74	5655.265074	1223.9	true
PFHxA_1	313.0 / 269.0	1.86	3765520.49	14660.997590	94.7	false
PFHxA_2	313.0 / 119.0	1.86	240665.23	12559.584265	95.0	false
PFHpA_1	363.0 / 319.0	2.27	996583.59	3829.110448	279.3	false
PFHpA_2	363.0 / 169.0	2.27	23989.25	4289.770964	352.0	false
PFHxS_1	399.0 / 80.0	2.30	10239284.10	28057.966856	1184.1	false
PFHxS_2	399.0 / 99.0	2.30	2809251.28	27605.511650	1227.8	false
PFOA_1	413.0 / 369.0	2.68	3261654.25	8725.942712	701.4	false
PFOA_2	413.0 / 169.0	2.67	183907.21	7575.031095	378.6	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	14265200.81	22141.609520	595.3	false
PFOS_2	499.0 / 99.0	3.08	2319611.57	20737.965801	1286.0	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8458-FS-D(5)	Injection Vial	43
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:23:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	5127300.97	14679.414648	885.1	false
PFHxS_2	399.0 / 99.0	2.29	1400559.64	14376.641703	970.5	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	7139579.55	11392.863123	444.4	false
PFOS_2	499.0 / 99.0	3.08	1151450.99	10582.784638	1276.4	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8459-FS(0)	Injection Vial	44
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:34:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	84328702.73	234207.167620	1229.1	false
PFBS_2	298.9 / 99.0	1.54	37183085.85	351642.979410	2344.1	false
PFHxA_1	313.0 / 269.0	1.84	108326069.01	553726.956906	261.5	false
PFHxA_2	313.0 / 119.0	1.86	20899201.30	1434438.149178	603.7	false
PFHpA_1	363.0 / 319.0	2.26	52503560.41	270181.191885	810.2	false
PFHpA_2	363.0 / 169.0	2.22	1646293.91	400430.730428	599.8	false
PFHxS_1	399.0 / 80.0	2.25	141701553.26	520615.365451	565.2	false
PFHxS_2	399.0 / 99.0	2.29	85598873.76	1128036.344429	998.8	false
PFOA_1	413.0 / 369.0	2.64	124800220.00	701913.231372	541.2	false
PFOA_2	413.0 / 169.0	2.68	12483594.89	1081171.953724	580.8	true
PFNA_1	463.0 / 419.0	3.03	1252352.10	5230.059614	347.2	false
PFNA_2	463.0 / 219.0	3.03	430836.52	5837.599528	262.4	false
PFOS_1	499.0 / 80.0	2.97	94113666.30	237734.378417	548.5	false
PFOS_2	499.0 / 99.0	3.07	13086112.86	190411.926137	771.3	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	3.75	5292.58	5.222127	38.4	false
PFUnA_2	563.0 / 269.0	3.71	1221.26	70.318627	27.4	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.28	1129.14	< 0	45.8	true
PFTrDA_2	663.0 / 169.0	4.27	153.57	< 0	13.9	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8459-FS-D(3)	Injection Vial	45
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:44:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	5407272.17	14244.018042	1422.4	true
PFBS_2	298.9 / 99.0	1.54	1653298.45	14831.751104	1705.7	false
PFHxA_1	313.0 / 269.0	1.86	14867288.82	59625.261248	129.9	false
PFHxA_2	313.0 / 119.0	1.86	943469.94	50782.761820	110.5	false
PFHpA_1	363.0 / 319.0	2.27	2436723.12	9692.679639	428.5	false
PFHpA_2	363.0 / 169.0	2.25	73827.16	13820.798193	342.8	false
PFHxS_1	399.0 / 80.0	2.29	17129104.53	48040.250222	993.4	false
PFHxS_2	399.0 / 99.0	2.29	4819220.14	48473.899415	1220.1	false
PFOA_1	413.0 / 369.0	2.68	15789558.28	46969.212138	1139.5	false
PFOA_2	413.0 / 169.0	2.67	714599.59	32729.420906	639.3	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	2.97	4591256.70	8094.143177	454.3	false
PFOS_2	499.0 / 99.0	3.07	641977.72	6518.319369	553.3	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8459-FS-D(5)	Injection Vial	46
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:55:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.85	4159805.46	17463.537820	88.9	false
PFHxA_2	313.0 / 119.0	1.86	271155.22	15263.377180	73.9	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	4970060.58	14614.274487	947.7	false
PFHxS_2	399.0 / 99.0	2.29	1350452.98	14237.250723	1030.6	false
PFOA_1	413.0 / 369.0	2.67	4961200.25	14483.814929	817.7	false
PFOA_2	413.0 / 169.0	2.67	219897.12	9881.437420	572.0	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8460-FS(0)	Injection Vial	47
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:06:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	58818976.44	155096.239412	1550.7	false
PFBS_2	298.9 / 99.0	1.54	19844474.07	178178.768538	2170.6	false
PFHxA_1	313.0 / 269.0	1.85	92512840.34	434204.361980	354.9	false
PFHxA_2	313.0 / 119.0	1.86	9695777.65	611013.508001	448.6	false
PFHpA_1	363.0 / 319.0	2.26	30195827.41	161378.463541	728.5	false
PFHpA_2	363.0 / 169.0	2.24	744880.49	188126.640833	732.1	false
PFHxS_1	399.0 / 80.0	2.22	86372574.74	302821.208595	453.4	false
PFHxS_2	399.0 / 99.0	2.29	88249389.20	1109805.067530	1027.6	false
PFOA_1	413.0 / 369.0	2.66	99137520.77	535948.298015	802.6	false
PFOA_2	413.0 / 169.0	2.67	9305476.69	774659.955557	699.5	true
PFNA_1	463.0 / 419.0	3.07	1799273.20	11168.151780	539.7	false
PFNA_2	463.0 / 219.0	3.07	604785.36	12170.353137	450.0	false
PFOS_1	499.0 / 80.0	3.00	216685284.29	666170.184241	326.3	false
PFOS_2	499.0 / 99.0	3.07	58496828.56	1035937.758583	1040.2	false
PFDA_1	513.0 / 469.0	3.38	50002.83	118.148229	77.3	false
PFDA_2	513.0 / 219.0	3.40	768.60	28.308682	32.5	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.27	669.69	< 0	35.7	false
PFTrDA_2	663.0 / 169.0	4.32	131.03	< 0	10.8	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8460-FS-D(3)	Injection Vial	48
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:17:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	2379173.73	6092.344609	1117.9	true
PFBS_2	298.9 / 99.0	1.54	720850.85	6287.379831	1118.5	false
PFHxA_1	313.0 / 269.0	1.86	5690656.86	23995.374315	107.5	false
PFHxA_2	313.0 / 119.0	1.86	360499.45	20388.130708	109.6	false
PFHpA_1	363.0 / 319.0	2.27	1361186.86	5790.938523	294.8	false
PFHpA_2	363.0 / 169.0	2.26	35851.23	7144.830596	299.4	false
PFHxS_1	399.0 / 80.0	2.29	18561625.30	56478.948156	1050.4	false
PFHxS_2	399.0 / 99.0	2.29	5562196.16	60701.023517	1120.4	false
PFOA_1	413.0 / 369.0	2.68	10642432.83	31741.452583	848.2	false
PFOA_2	413.0 / 169.0	2.66	563084.59	25858.789333	617.5	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.00	24726844.38	44004.646772	461.9	false
PFOS_2	499.0 / 99.0	3.07	3716215.16	38094.653234	830.5	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true



Sample Name	J8460-FS-D(5)	Injection Vial	49
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:28:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.86	2212690.21	9248.381260	63.4	false
PFHxA_2	313.0 / 119.0	1.86	147581.53	8261.800206	74.8	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	7428604.61	22296.658359	745.9	false
PFHxS_2	399.0 / 99.0	2.29	2019878.29	21739.488791	880.9	false
PFOA_1	413.0 / 369.0	2.68	4155206.39	11893.452912	678.5	false
PFOA_2	413.0 / 169.0	2.67	217784.82	9596.822513	395.1	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.00	9688305.18	18136.402536	351.8	false
PFOS_2	499.0 / 99.0	3.07	1452994.93	15666.857690	691.8	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8461-FS(0)	Injection Vial	52
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:01:04	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	57601774.97	151201.584400	1432.2	false
PFBS_2	298.9 / 99.0	1.54	18889729.97	168841.297325	1902.7	false
PFHxA_1	313.0 / 269.0	1.85	92864366.62	426755.638234	357.8	false
PFHxA_2	313.0 / 119.0	1.86	9779639.45	603433.120949	460.9	false
PFHpA_1	363.0 / 319.0	2.26	29682953.11	158200.449721	742.7	false
PFHpA_2	363.0 / 169.0	2.24	750800.86	189100.439017	832.6	false
PFHxS_1	399.0 / 80.0	2.25	137678071.38	605642.142710	505.6	false
PFHxS_2	399.0 / 99.0	2.29	85849545.10	1354569.393064	1130.2	false
PFOA_1	413.0 / 369.0	2.66	98121787.85	564915.996316	810.8	false
PFOA_2	413.0 / 169.0	2.66	9513774.63	843449.231913	653.2	false
PFNA_1	463.0 / 419.0	3.07	1769169.84	11993.242914	447.4	false
PFNA_2	463.0 / 219.0	3.07	569731.14	12519.764285	449.2	false
PFOS_1	499.0 / 80.0	3.00	214470833.15	696587.629951	311.2	false
PFOS_2	499.0 / 99.0	3.07	58733193.56	1098845.781649	1170.4	false
PFDA_1	513.0 / 469.0	3.39	49160.49	112.695811	88.4	false
PFDA_2	513.0 / 219.0	3.43	805.03	29.547567	20.4	true
PFUnA_1	563.0 / 519.0	3.75	8076.72	12.767958	42.5	false
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTTrDA_1	663.0 / 619.0	4.28	1564.37	< 0	47.5	false
PFTTrDA_2	663.0 / 169.0	4.25	210.10	< 0	14.6	false
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8461-FS-D(3)	Injection Vial	53
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:11:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	2375829.03	6370.606663	1107.6	false
PFBS_2	298.9 / 99.0	1.54	724627.82	6618.233720	993.5	false
PFHxA_1	313.0 / 269.0	1.85	6141530.15	24352.578411	105.9	false
PFHxA_2	313.0 / 119.0	1.86	395446.08	21032.333458	111.1	false
PFHpA_1	363.0 / 319.0	2.27	1418842.98	5423.816658	280.0	false
PFHpA_2	363.0 / 169.0	2.25	36560.28	6540.916753	254.0	false
PFHxS_1	399.0 / 80.0	2.29	18998661.82	58243.778486	984.1	false
PFHxS_2	399.0 / 99.0	2.29	5565053.24	61188.770609	1129.3	false
PFOA_1	413.0 / 369.0	2.67	10703727.77	31762.217042	1028.5	false
PFOA_2	413.0 / 169.0	2.67	552508.33	25243.944431	510.6	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.00	25900102.68	48099.870736	436.3	false
PFOS_2	499.0 / 99.0	3.07	3828837.31	40958.482910	807.6	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8461-FS-D(5)	Injection Vial	54
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:22:47	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.85	2361051.42	9732.789320	64.9	false
PFHxA_2	313.0 / 119.0	1.86	159194.64	8791.017841	81.2	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	7766117.04	22866.238818	735.7	false
PFHxS_2	399.0 / 99.0	2.29	2141949.95	22615.257184	960.9	false
PFOA_1	413.0 / 369.0	2.68	4458861.96	12470.042159	659.8	false
PFOA_2	413.0 / 169.0	2.67	226161.85	9737.143490	486.9	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.00	10898890.98	18028.310804	398.6	true
PFOS_2	499.0 / 99.0	3.07	1720049.97	16388.059277	972.5	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8462-FS(0)	Injection Vial	1
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:33:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	19118990.10	47127.566743	789.0	false
PFBS_2	298.9 / 99.0	1.54	5704534.42	47882.176376	998.2	false
PFHxA_1	313.0 / 269.0	1.86	64560344.57	281834.893726	280.3	false
PFHxA_2	313.0 / 119.0	1.86	5162774.84	302600.428606	324.8	false
PFHpA_1	363.0 / 319.0	2.27	20888735.61	102061.331902	699.3	false
PFHpA_2	363.0 / 169.0	2.26	417163.15	96283.816079	629.2	false
PFHxS_1	399.0 / 80.0	2.28	112344392.04	395783.973598	721.1	false
PFHxS_2	399.0 / 99.0	2.29	56404714.63	712745.515705	1329.1	false
PFOA_1	413.0 / 369.0	2.68	58540756.02	279898.778299	921.5	false
PFOA_2	413.0 / 169.0	2.67	4076515.37	300135.836224	788.1	true
PFNA_1	463.0 / 419.0	3.07	3732505.16	27175.862961	618.9	false
PFNA_2	463.0 / 219.0	3.07	1110676.35	26205.431405	753.5	false
PFOS_1	499.0 / 80.0	3.00	205471082.21	735762.704544	401.6	false
PFOS_2	499.0 / 99.0	3.07	72631366.93	1498155.552373	1765.2	false
PFDA_1	513.0 / 469.0	3.42	113287.97	325.291175	181.8	false
PFDA_2	513.0 / 219.0	3.42	3500.38	236.336369	77.0	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.21	908.99	< 0	16.9	false
PFTrDA_2	663.0 / 169.0	4.33	64.87	< 0	4.0	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8462-FS-D(3)	Injection Vial	2
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:44:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	801763.36	1915.008160	486.1	false
PFBS_2	298.9 / 99.0	1.54	238456.64	1941.286587	520.5	false
PFHxA_1	313.0 / 269.0	1.86	3409215.89	12491.832024	85.8	false
PFHxA_2	313.0 / 119.0	1.86	234157.60	11500.468684	85.5	false
PFHpA_1	363.0 / 319.0	2.27	1032101.53	3732.555062	272.2	false
PFHpA_2	363.0 / 169.0	2.27	22384.22	3757.154350	227.6	false
PFHxS_1	399.0 / 80.0	2.29	10460923.10	27741.692758	843.7	false
PFHxS_2	399.0 / 99.0	2.29	3067528.91	29173.945120	1024.1	false
PFOA_1	413.0 / 369.0	2.68	4776134.63	12529.135492	689.3	false
PFOA_2	413.0 / 169.0	2.67	278543.11	11250.950893	427.8	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.05	40247270.76	74558.341581	688.4	false
PFOS_2	499.0 / 99.0	3.07	6377194.06	68049.989031	1575.7	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8462-FS-D(5)	Injection Vial	3
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:55:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	4511696.14	11848.601162	738.4	false
PFHxS_2	399.0 / 99.0	2.29	1252609.55	11793.795681	879.8	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	17890167.53	33194.809421	721.4	false
PFOS_2	499.0 / 99.0	3.08	2864714.86	30617.225419	1721.7	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8463MS-FS(0)	Injection Vial	4
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:06:18	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	13705477.99	38109.325957	863.7	false
PFBS_2	298.9 / 99.0	1.54	4036279.54	38217.787168	924.5	false
PFHxA_1	313.0 / 269.0	1.86	36509503.79	191588.763383	208.4	false
PFHxA_2	313.0 / 119.0	1.86	2564278.08	180659.967073	239.6	false
PFHpA_1	363.0 / 319.0	2.27	12763482.81	65650.223160	608.7	false
PFHpA_2	363.0 / 169.0	2.27	262216.12	63688.908269	509.8	false
PFHxS_1	399.0 / 80.0	2.29	82845499.31	360824.704793	933.1	false
PFHxS_2	399.0 / 99.0	2.29	32649532.11	510049.815945	1364.4	false
PFOA_1	413.0 / 369.0	2.68	35642738.13	178103.974548	891.0	false
PFOA_2	413.0 / 169.0	2.67	2222261.70	170994.258966	673.6	true
PFNA_1	463.0 / 419.0	3.08	4409968.19	31568.979761	672.1	false
PFNA_2	463.0 / 219.0	3.08	1306370.63	30304.307626	625.4	false
PFOS_1	499.0 / 80.0	3.00	179221499.12	672797.069792	512.9	false
PFOS_2	499.0 / 99.0	3.08	42221816.26	913012.028493	1899.9	false
PFDA_1	513.0 / 469.0	3.43	3735249.63	13147.921954	667.9	false
PFDA_2	513.0 / 219.0	3.43	155801.20	13310.917430	686.0	false
PFUnA_1	563.0 / 519.0	3.75	3836238.95	14127.441429	738.1	false
PFUnA_2	563.0 / 269.0	3.75	197361.27	14609.092212	621.0	false
PFDoA_1	613.0 / 569.0	4.04	3554808.40	12878.173118	918.4	false
PFDoA_2	613.0 / 319.0	4.04	576644.01	13418.408213	907.8	false
PFTrDA_1	663.0 / 619.0	4.28	3457827.17	13667.591560	1463.5	false
PFTrDA_2	663.0 / 169.0	4.28	223075.87	13421.029579	1065.4	false
PFTeDA_1	713.0 / 669.0	4.49	3626616.68	12654.008816	2452.0	false
PFTeDA_2	713.0 / 169.0	4.49	182140.99	13132.125689	1545.9	false
NMeFOSAA_1	570.0 / 419.0	3.59	666540.55	13789.034387	1901.7	false
NMeFOSAA_2	570.0 / 512.0	3.59	386332.00	14785.718894	1294.2	false
NEtFOSAA_1	584.0 / 419.0	3.75	602099.07	14585.679915	1096.6	false
NEtFOSAA_2	584.0 / 483.0	3.75	40855.68	16980.241094	770.9	false



Sample Name	J8463MS-FS-D(3)	Injection Vial	5
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:17:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	1390033.44	3282.635103	531.9	false
PFBS_2	298.9 / 99.0	1.54	400190.44	3219.769865	512.9	false
PFHxA_1	313.0 / 269.0	1.86	4070398.76	14768.247985	93.8	false
PFHxA_2	313.0 / 119.0	1.86	275117.97	13382.427258	68.6	false
PFHpA_1	363.0 / 319.0	2.27	1442870.88	5082.346533	322.0	false
PFHpA_2	363.0 / 169.0	2.26	33695.71	5542.667070	265.2	false
PFHxS_1	399.0 / 80.0	2.29	12540646.08	40852.367992	924.9	false
PFHxS_2	399.0 / 99.0	2.29	3651902.47	42665.632401	944.7	false
PFOA_1	413.0 / 369.0	2.68	5540643.00	16539.713207	771.2	false
PFOA_2	413.0 / 169.0	2.67	341012.74	15675.461750	569.8	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	42597623.60	76905.665050	667.8	false
PFOS_2	499.0 / 99.0	3.08	6920099.98	71965.464995	1853.6	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8463MS-FS-D(5)	Injection Vial	6
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:28:05	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	2592206.83	6631.943171	714.5	false
PFHxS_2	399.0 / 99.0	2.29	750350.40	6881.142275	750.1	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	9568893.96	16034.040342	643.2	false
PFOS_2	499.0 / 99.0	3.08	1561744.80	15073.030131	1429.1	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8464MSD-FS(0)	Injection Vial	9
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:00:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.53	18269815.71	42752.497242	916.3	false
PFBS_2	298.9 / 99.0	1.53	5497842.17	43809.198941	995.5	false
PFHxA_1	313.0 / 269.0	1.85	47341436.12	176401.406047	255.5	false
PFHxA_2	313.0 / 119.0	1.85	3480540.41	174117.332343	257.1	false
PFHpA_1	363.0 / 319.0	2.26	16554125.97	70214.521136	665.5	false
PFHpA_2	363.0 / 169.0	2.26	338015.77	67705.340451	766.7	false
PFHxS_1	399.0 / 80.0	2.29	96595136.61	293337.867590	968.6	false
PFHxS_2	399.0 / 99.0	2.29	40625922.86	442513.652646	1397.9	false
PFOA_1	413.0 / 369.0	2.68	43332806.74	173068.289936	1108.6	false
PFOA_2	413.0 / 169.0	2.67	2845087.38	174977.407360	722.2	true
PFNA_1	463.0 / 419.0	3.08	5311016.76	31318.232700	702.2	false
PFNA_2	463.0 / 219.0	3.07	1626396.47	31079.411876	757.7	false
PFOS_1	499.0 / 80.0	3.00	194689363.67	610346.399669	439.3	false
PFOS_2	499.0 / 99.0	3.07	53018111.13	957423.069739	1727.1	false
PFDA_1	513.0 / 469.0	3.43	4818757.94	12385.403310	667.9	false
PFDA_2	513.0 / 219.0	3.43	204459.35	12755.329855	580.8	false
PFUnA_1	563.0 / 519.0	3.75	4974372.87	13608.588740	936.8	false
PFUnA_2	563.0 / 269.0	3.75	249737.85	13733.292402	589.1	false
PFDoA_1	613.0 / 569.0	4.03	4936454.47	12857.772272	853.1	false
PFDoA_2	613.0 / 319.0	4.03	768532.10	12856.178145	958.6	false
PFTrDA_1	663.0 / 619.0	4.27	4458111.30	14679.732924	1620.6	false
PFTrDA_2	663.0 / 169.0	4.27	298422.50	14958.712553	918.1	false
PFTeDA_1	713.0 / 669.0	4.49	4689926.57	13633.319414	2332.1	false
PFTeDA_2	713.0 / 169.0	4.49	235104.40	14122.246012	2075.6	false
NMeFOSAA_1	570.0 / 419.0	3.58	914664.21	14323.697134	1570.0	false
NMeFOSAA_2	570.0 / 512.0	3.58	461495.07	13357.688717	942.1	false
NEtFOSAA_1	584.0 / 419.0	3.74	784247.17	13725.559377	873.9	false
NEtFOSAA_2	584.0 / 483.0	3.74	47661.00	14301.980614	984.8	false

Sample Name	J8464MSD-FS-D(3)	Injection Vial	10
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:11:37	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	1506498.76	3619.409364	655.9	false
PFBS_2	298.9 / 99.0	1.53	452464.71	3703.491993	598.2	false
PFHxA_1	313.0 / 269.0	1.85	4591785.57	17239.862385	95.9	false
PFHxA_2	313.0 / 119.0	1.86	301861.14	15196.283230	68.6	false
PFHpA_1	363.0 / 319.0	2.27	1579593.76	5986.925121	300.4	false
PFHpA_2	363.0 / 169.0	2.26	37344.69	6623.293538	325.5	false
PFHxS_1	399.0 / 80.0	2.29	13881368.34	43721.670954	947.8	false
PFHxS_2	399.0 / 99.0	2.29	4042489.20	45664.418209	1131.3	false
PFOA_1	413.0 / 369.0	2.68	5905929.02	17470.864215	778.6	false
PFOA_2	413.0 / 169.0	2.67	361069.39	16447.364262	657.4	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.05	47353556.56	84555.443396	667.3	false
PFOS_2	499.0 / 99.0	3.07	7767078.58	79888.847523	1939.9	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8464MSD-FS-D(5)	Injection Vial	11
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:22:30	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	3074195.67	7288.018666	590.3	false
PFHxS_2	399.0 / 99.0	2.29	850159.24	7223.719025	564.5	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	11703081.43	19601.361015	682.5	true
PFOS_2	499.0 / 99.0	3.07	1884111.71	18176.440274	1119.1	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8477-FS(0)	Injection Vial	12
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:33:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.53	11423993.21	32426.514959	316.3	false
PFBS_2	298.9 / 99.0	1.53	3267602.34	31583.554250	563.8	false
PFHxA_1	313.0 / 269.0	1.85	67333158.65	231952.018328	237.4	false
PFHxA_2	313.0 / 119.0	1.85	5032397.12	232750.596358	329.3	false
PFHpA_1	363.0 / 319.0	2.26	21555122.31	90261.473516	397.8	false
PFHpA_2	363.0 / 169.0	2.25	494790.58	97878.863555	834.5	false
PFHxS_1	399.0 / 80.0	2.27	115481039.78	360509.714401	554.4	false
PFHxS_2	399.0 / 99.0	2.29	65955275.47	738534.526264	1273.4	false
PFOA_1	413.0 / 369.0	2.67	92395579.12	379956.796392	625.4	false
PFOA_2	413.0 / 169.0	2.66	8006441.83	507003.539553	700.5	false
PFNA_1	463.0 / 419.0	3.07	1360667.41	7790.969243	243.1	false
PFNA_2	463.0 / 219.0	3.07	481779.08	8947.145119	325.1	false
PFOS_1	499.0 / 80.0	2.99	198340963.15	587462.903638	323.0	false
PFOS_2	499.0 / 99.0	3.07	64556074.27	1101413.879633	1712.0	false
PFDA_1	513.0 / 469.0	3.42	281523.38	706.340833	169.0	false
PFDA_2	513.0 / 219.0	3.42	7191.98	427.586937	67.8	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.28	2481.62	< 0	39.3	true
PFTrDA_2	663.0 / 169.0	4.25	138.60	< 0	10.3	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	3.53	321595.45	4686.126016	324.0	false
NMeFOSAA_2	570.0 / 512.0	3.58	975.46	< 0	17.4	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8477-FS-D(3)	Injection Vial	13
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:44:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	1594720.05	2933.279322	373.8	false
PFBS_2	298.9 / 99.0	1.53	473906.35	2970.077028	438.1	false
PFHxA_1	313.0 / 269.0	1.85	8291213.85	26656.061664	95.8	false
PFHxA_2	313.0 / 119.0	1.86	558995.77	24110.153324	89.4	false
PFHpA_1	363.0 / 319.0	2.26	2670056.22	8747.885164	330.1	false
PFHpA_2	363.0 / 169.0	2.26	63627.70	9787.037211	360.2	false
PFHxS_1	399.0 / 80.0	2.29	31223103.37	79064.815830	1060.3	false
PFHxS_2	399.0 / 99.0	2.29	9528798.69	86543.485989	1445.2	false
PFOA_1	413.0 / 369.0	2.67	19458555.79	56373.348660	982.0	false
PFOA_2	413.0 / 169.0	2.67	1021546.01	45570.516616	666.7	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.04	61190345.87	106691.308817	620.1	false
PFOS_2	499.0 / 99.0	3.07	9913383.80	99565.535616	1657.8	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8477-FS-D(5)	Injection Vial	14
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:55:10	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.86	1253417.73	5038.853215	43.9	false
PFHxA_2	313.0 / 119.0	1.86	82199.29	4415.833549	39.8	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	5290873.71	16595.826917	720.1	false
PFHxS_2	399.0 / 99.0	2.29	1436223.95	16152.692961	875.5	false
PFOA_1	413.0 / 369.0	2.68	3653617.60	10743.420997	649.8	false
PFOA_2	413.0 / 169.0	2.66	195160.06	8834.824334	435.7	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.07	12311728.79	22582.261408	659.2	false
PFOS_2	499.0 / 99.0	3.07	1976795.39	20884.800259	960.3	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true



Sample Name	J8478-FS(0)	Injection Vial	15
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:06:03	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	36973481.40	100229.058370	647.6	false
PFBS_2	298.9 / 99.0	1.54	11287373.32	104191.153725	1108.4	false
PFHxA_1	313.0 / 269.0	1.85	108281054.81	519703.352456	251.3	false
PFHxA_2	313.0 / 119.0	1.86	15196664.93	979344.212164	506.3	false
PFHpA_1	363.0 / 319.0	2.26	34967415.45	169391.869489	627.3	false
PFHpA_2	363.0 / 169.0	2.23	962641.80	220387.307137	693.9	false
PFHxS_1	399.0 / 80.0	2.24	140520156.88	509244.570274	471.4	false
PFHxS_2	399.0 / 99.0	2.29	86695050.60	1126925.279963	1037.0	false
PFOA_1	413.0 / 369.0	2.65	112737945.86	618436.717808	564.0	false
PFOA_2	413.0 / 169.0	2.67	10648234.41	899476.609551	577.0	true
PFNA_1	463.0 / 419.0	3.07	594879.61	2914.284974	213.1	false
PFNA_2	463.0 / 219.0	3.07	229349.77	3652.633940	227.4	false
PFOS_1	499.0 / 80.0	3.03	125288302.13	319228.245423	561.5	false
PFOS_2	499.0 / 99.0	3.08	25237750.19	370412.826707	1085.5	false
PFDA_1	513.0 / 469.0	3.43	83630.97	210.252910	88.2	false
PFDA_2	513.0 / 219.0	3.41	2675.04	156.174022	60.9	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.23	3478.06	< 0	56.0	false
PFTrDA_2	663.0 / 169.0	4.21	953.99	29.711406	53.2	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8478-FS-D(3)	Injection Vial	16
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:16:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	4128979.93	9527.102169	622.1	false
PFBS_2	298.9 / 99.0	1.54	1212019.07	9524.402575	831.7	false
PFHxA_1	313.0 / 269.0	1.86	25909871.57	106096.831151	161.5	false
PFHxA_2	313.0 / 119.0	1.86	1669701.30	91780.837263	156.4	false
PFHpA_1	363.0 / 319.0	2.27	4329710.49	16692.587146	433.3	false
PFHpA_2	363.0 / 169.0	2.25	113972.63	20706.814020	556.6	false
PFHxS_1	399.0 / 80.0	2.29	43651800.76	131251.901971	1329.5	false
PFHxS_2	399.0 / 99.0	2.29	13490675.06	145490.193484	1380.9	false
PFOA_1	413.0 / 369.0	2.68	30205618.10	94100.255078	1057.8	false
PFOA_2	413.0 / 169.0	2.67	1624902.35	77947.716002	564.0	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.08	18668149.29	35909.048173	541.4	false
PFOS_2	499.0 / 99.0	3.08	3183719.70	35275.010740	1082.1	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

<b>Sample Name</b>	J8478-FS-D(5)	<b>Injection Vial</b>	17
<b>Sample ID</b>	VC-PM367-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:27:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8479-FS(0)	Injection Vial	20
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:00:25	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.53	48645100.10	126327.549673	1515.3	false
PFBS_2	298.9 / 99.0	1.53	16319992.38	144315.474260	2029.5	false
PFHxA_1	313.0 / 269.0	1.85	91788133.28	424922.221898	350.2	false
PFHxA_2	313.0 / 119.0	1.85	9602308.67	596862.711096	411.3	false
PFHpA_1	363.0 / 319.0	2.25	22659264.80	107556.023754	713.8	false
PFHpA_2	363.0 / 169.0	2.22	611128.32	137067.794696	592.7	false
PFHxS_1	399.0 / 80.0	2.25	132272706.73	493240.397806	541.8	false
PFHxS_2	399.0 / 99.0	2.28	74653527.78	998506.902067	1198.6	false
PFOA_1	413.0 / 369.0	2.64	111974234.56	661989.132926	609.2	false
PFOA_2	413.0 / 169.0	2.66	11931297.46	1086195.626883	685.7	true
PFNA_1	463.0 / 419.0	3.05	411224.92	2503.260833	273.9	false
PFNA_2	463.0 / 219.0	2.98	173608.64	3440.201674	175.7	true
PFOS_1	499.0 / 80.0	2.99	213162489.80	731262.001189	366.4	false
PFOS_2	499.0 / 99.0	3.06	53481798.97	1056851.331560	1031.2	false
PFDA_1	513.0 / 469.0	3.41	77591.23	185.708414	105.4	false
PFDA_2	513.0 / 219.0	3.42	1749.49	89.625658	42.5	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.26	1816.63	< 0	52.2	true
PFTrDA_2	663.0 / 169.0	4.27	195.67	< 0	14.2	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8479-FS-D(3)	Injection Vial	21
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:11:19	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	4914045.36	12512.422034	1422.7	false
PFBS_2	298.9 / 99.0	1.54	1445857.45	12537.708107	1494.2	false
PFHxA_1	313.0 / 269.0	1.85	13718816.20	57018.912651	134.0	false
PFHxA_2	313.0 / 119.0	1.86	908945.68	50703.803396	125.8	false
PFHpA_1	363.0 / 319.0	2.26	2372957.75	9105.690422	360.3	false
PFHpA_2	363.0 / 169.0	2.24	62456.10	11264.161630	427.0	false
PFHxS_1	399.0 / 80.0	2.29	30911864.02	91632.988713	1110.4	false
PFHxS_2	399.0 / 99.0	2.29	9604307.85	102114.164862	1435.8	false
PFOA_1	413.0 / 369.0	2.67	29725362.08	101107.251133	1174.4	false
PFOA_2	413.0 / 169.0	2.67	1592055.10	83384.761044	602.2	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	2.99	46453112.31	86486.705109	665.4	false
PFOS_2	499.0 / 99.0	3.06	6896887.50	73965.217792	1004.6	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8479-FS-D(5)	Injection Vial	22
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:22:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.85	2974105.73	10317.583161	78.5	false
PFHxA_2	313.0 / 119.0	1.86	196255.45	9120.679569	67.4	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	7143817.95	18321.943417	912.6	false
PFHxS_2	399.0 / 99.0	2.29	2033870.80	18705.056865	969.6	false
PFOA_1	413.0 / 369.0	2.67	8133860.47	20585.767755	784.5	false
PFOA_2	413.0 / 169.0	2.66	408913.73	15933.539897	478.2	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	2.99	11727590.71	17362.205916	446.5	false
PFOS_2	499.0 / 99.0	3.06	1760635.06	15013.379677	1034.9	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8480-FS(0)	Injection Vial	23
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:33:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	48659695.74	111269.519020	1683.6	false
PFBS_2	298.9 / 99.0	1.54	16174254.05	125940.675328	2256.8	false
PFHxA_1	313.0 / 269.0	1.85	91952279.92	384225.497279	340.4	false
PFHxA_2	313.0 / 119.0	1.86	9889052.17	554823.801715	423.8	false
PFHpA_1	363.0 / 319.0	2.26	22962348.95	106953.751807	727.8	false
PFHpA_2	363.0 / 169.0	2.23	605824.76	133331.670385	607.1	false
PFHxS_1	399.0 / 80.0	2.26	128798795.08	394050.920390	690.0	false
PFHxS_2	399.0 / 99.0	2.29	74736097.99	820135.032968	1182.1	false
PFOA_1	413.0 / 369.0	2.65	111205889.33	625141.639984	563.5	false
PFOA_2	413.0 / 169.0	2.67	12907962.25	1117369.191154	590.9	true
PFNA_1	463.0 / 419.0	3.05	423973.36	2613.259382	309.1	false
PFNA_2	463.0 / 219.0	2.99	182744.80	3666.589804	211.5	true
PFOS_1	499.0 / 80.0	2.99	217574065.89	737063.843689	359.7	false
PFOS_2	499.0 / 99.0	3.07	62903754.87	1227496.339864	1137.2	false
PFDA_1	513.0 / 469.0	3.41	106101.70	243.573956	128.5	false
PFDA_2	513.0 / 219.0	3.42	1169.44	47.116983	27.8	true
PFUnA_1	563.0 / 519.0	3.75	8217.52	12.178043	43.8	false
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	4.28	2630.64	< 0	67.5	false
PFTrDA_2	663.0 / 169.0	4.27	244.32	< 0	12.1	false
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8480-FS-D(3)	Injection Vial	24
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:44:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	5067998.65	12098.111562	1273.2	false
PFBS_2	298.9 / 99.0	1.54	1561752.40	12696.732142	1422.8	false
PFHxA_1	313.0 / 269.0	1.85	14593105.16	58337.440730	135.2	false
PFHxA_2	313.0 / 119.0	1.86	950554.85	51000.433589	127.7	false
PFHpA_1	363.0 / 319.0	2.26	2489526.33	9254.986199	361.0	false
PFHpA_2	363.0 / 169.0	2.24	62941.83	10995.147837	290.7	false
PFHxS_1	399.0 / 80.0	2.29	34071311.13	96574.280080	1130.1	false
PFHxS_2	399.0 / 99.0	2.29	10471891.32	106460.999882	1240.1	false
PFOA_1	413.0 / 369.0	2.67	32472867.47	106853.324609	1196.1	false
PFOA_2	413.0 / 169.0	2.67	1844256.22	93447.284592	717.2	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	2.99	59029726.19	112481.848407	584.2	false
PFOS_2	499.0 / 99.0	3.07	8720701.64	95720.404694	882.7	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true



Sample Name	J8480-FS-D(5)	Injection Vial	25
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:54:54	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.85	2716360.03	10018.797003	70.9	false
PFHxA_2	313.0 / 119.0	1.86	179105.59	8848.906893	70.8	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.29	6480292.74	16504.349019	850.3	false
PFHxS_2	399.0 / 99.0	2.29	1835540.39	16762.803090	997.6	false
PFOA_1	413.0 / 369.0	2.67	7440753.73	22126.311280	828.7	false
PFOA_2	413.0 / 169.0	2.66	385225.39	17637.332996	536.4	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.00	12607097.09	23997.751839	433.6	false
PFOS_2	499.0 / 99.0	3.07	1892727.13	20752.277490	1116.0	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8481-FS(0)	Injection Vial	26
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:05:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.53	19216951.09	48103.544982	687.9	false
PFBS_2	298.9 / 99.0	1.53	5991554.28	51071.283077	945.1	false
PFHxA_1	313.0 / 269.0	1.85	71258748.18	279445.191789	267.0	false
PFHxA_2	313.0 / 119.0	1.86	5514183.40	290331.695850	325.1	false
PFHpA_1	363.0 / 319.0	2.26	14990554.08	65191.697226	564.3	false
PFHpA_2	363.0 / 169.0	2.24	370924.72	76190.123802	735.2	false
PFHxS_1	399.0 / 80.0	2.29	100219752.26	307060.078232	850.4	false
PFHxS_2	399.0 / 99.0	2.29	41852822.56	459944.002582	1284.8	false
PFOA_1	413.0 / 369.0	2.67	81458517.21	395138.636243	832.4	false
PFOA_2	413.0 / 169.0	2.66	5881366.45	439316.060738	690.8	false
PFNA_1	463.0 / 419.0	3.07	382816.92	1908.498816	240.6	false
PFNA_2	463.0 / 219.0	3.07	132385.53	2146.320931	235.0	false
PFOS_1	499.0 / 80.0	3.02	120451424.19	274213.242246	534.4	false
PFOS_2	499.0 / 99.0	3.07	21648985.04	283895.400548	1162.5	false
PFDA_1	513.0 / 469.0	3.42	60049.37	141.253564	97.7	false
PFDA_2	513.0 / 219.0	3.42	1377.29	66.828367	28.1	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8481-FS-D(3)	Injection Vial	27
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:16:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.54	3680803.28	8231.793074	551.9	false
PFBS_2	298.9 / 99.0	1.54	1102558.90	8398.100357	694.3	false
PFHxA_1	313.0 / 269.0	1.85	14833099.60	61678.274674	128.0	false
PFHxA_2	313.0 / 119.0	1.86	970286.95	54151.323070	110.2	false
PFHpA_1	363.0 / 319.0	2.26	2872070.75	10960.331225	361.5	false
PFHpA_2	363.0 / 169.0	2.25	77539.90	13923.680813	382.8	false
PFHxS_1	399.0 / 80.0	2.29	27830468.19	82398.459992	1097.4	false
PFHxS_2	399.0 / 99.0	2.29	8516888.05	90441.876585	1372.4	false
PFOA_1	413.0 / 369.0	2.67	24295180.84	81572.022473	1043.6	false
PFOA_2	413.0 / 169.0	2.66	1338505.08	69201.381272	569.5	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	31191874.83	59556.917120	619.8	false
PFOS_2	499.0 / 99.0	3.07	4931911.74	54242.869068	1085.9	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8481-FS-D(5)	Injection Vial	28
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:27:34	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	1.85	2923550.09	11343.744851	73.1	false
PFHxA_2	313.0 / 119.0	1.85	185849.43	9660.447661	74.5	false
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.28	5950993.50	15545.529249	953.3	false
PFHxS_2	399.0 / 99.0	2.28	1658354.32	15532.916944	1160.4	false
PFOA_1	413.0 / 369.0	2.67	6247620.09	18598.405653	743.2	false
PFOA_2	413.0 / 169.0	2.66	295434.92	13539.351759	404.5	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	7186270.67	13160.583320	554.9	false
PFOS_2	499.0 / 99.0	3.07	1190932.89	12562.028483	1167.2	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8482-FS(0)	Injection Vial	31
Sample ID	VC-AQ-FB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:00:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.55	2602.58	3.757803	15.1	true
PFBS_2	298.9 / 99.0	1.55	1072.82	9.370999	13.8	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.30	20539.64	43.211013	54.3	false
PFHxS_2	399.0 / 99.0	2.30	4896.66	28.823098	45.4	false
PFOA_1	413.0 / 369.0	2.67	100568.58	296.453109	109.5	false
PFOA_2	413.0 / 169.0	2.67	5920.71	268.072790	87.9	false
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.02	61786.47	126.423813	77.6	false
PFOS_2	499.0 / 99.0	3.07	9700.43	113.102672	71.8	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	false
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8483-FS(0)	Injection Vial	32
Sample ID	VC-AQ-EB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:11:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.53	38705.11	87.841707	63.4	true
PFBS_2	298.9 / 99.0	1.53	11822.44	93.434470	65.6	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	2.26	18270.74	55.723608	20.5	false
PFHpA_2	363.0 / 169.0	2.19	658.18	38.219972	13.6	false
PFHxS_1	399.0 / 80.0	2.28	212576.70	573.594848	171.0	false
PFHxS_2	399.0 / 99.0	2.28	56702.19	542.693174	245.2	false
PFOA_1	413.0 / 369.0	2.67	158365.69	392.959290	131.9	false
PFOA_2	413.0 / 169.0	2.67	12098.72	465.696361	125.5	false
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.06	1940253.88	3242.025290	433.5	false
PFOS_2	499.0 / 99.0	3.06	313121.19	3012.541008	668.8	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	KB80 IB	Injection Vial	9
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:02:57	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.07	91698.47	244.195426	1281.1	false
d3-MeFOSAA	573.0 / 419.0	3.61	16302.89	250.085369	195.5	false
d5-EtFOSAA	589.0 / 419.0	3.78	17051.45	239.580705	212.6	false
13C5-PFHxA	318.0 / 273.0	1.87	61987.66	244.293373	826.7	false
13C4-PFHpA	367.0 / 322.0	2.28	70438.43	244.000657	1152.0	false
13C8-PFOA	421.0 / 376.0	2.70	88535.23	252.114367	1604.4	false
13C9-PFNA	472.0 / 427.0	3.09	100138.19	249.732890	1149.5	false
13C6-PFDA	519.0 / 474.0	3.45	97258.51	257.077741	4005.3	false
13C7-PFUnA	570.0 / 525.0	3.78	88898.52	254.380465	800.7	false
13C2-PFTeDA	715.0 / 670.0	4.54	70451.22	232.374509	2131.0	false
13C3-PFBS	302.0 / 99.0	1.55	25201.92	220.626542	798.1	false
13C3-PFHxS	402.0 / 99.0	2.31	25094.63	242.439381	606.8	false
13C8-PFOS	507.0 / 99.0	3.09	26831.98	229.467599	276.5	false

Sample Name	CR900PB-FS(0)	Injection Vial	31
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:12:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	77697.95	188.952700	1076.6	false
d3-MeFOSAA	573.0 / 419.0	3.58	14720.37	224.440856	251.9	false
d5-EtFOSAA	589.0 / 419.0	3.74	14634.23	204.371396	183.1	false
13C5-PFHxA	318.0 / 273.0	1.85	58530.05	236.407691	811.4	false
13C4-PFHpA	367.0 / 322.0	2.26	64821.70	230.132503	957.3	false
13C8-PFOA	421.0 / 376.0	2.67	82880.93	241.886850	1150.9	false
13C9-PFNA	472.0 / 427.0	3.06	88246.00	225.552277	836.3	false
13C6-PFDA	519.0 / 474.0	3.42	93635.89	226.020241	1149.6	false
13C7-PFUnA	570.0 / 525.0	3.74	91696.18	239.612032	1084.4	false
13C2-PFTeDA	715.0 / 670.0	4.50	69824.84	210.318766	1551.3	false
13C3-PFBS	302.0 / 99.0	1.53	25913.47	225.480655	680.8	false
13C3-PFHxS	402.0 / 99.0	2.29	23857.27	229.088172	549.9	false
13C8-PFOS	507.0 / 99.0	3.06	27199.36	231.199609	309.3	false



Sample Name	CR901LCS-FS(0)	Injection Vial	32
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:23:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	84710.69	249.214012	1135.1	false
d3-MeFOSAA	573.0 / 419.0	3.58	15536.14	247.207739	152.8	false
d5-EtFOSAA	589.0 / 419.0	3.74	14038.28	204.597250	210.3	false
13C5-PFHxA	318.0 / 273.0	1.85	55449.69	274.053011	639.3	false
13C4-PFHpA	367.0 / 322.0	2.26	57164.98	248.336435	928.4	false
13C8-PFOA	421.0 / 376.0	2.67	72487.67	258.865764	1688.0	false
13C9-PFNA	472.0 / 427.0	3.07	81124.10	253.720113	1310.7	false
13C6-PFDA	519.0 / 474.0	3.42	83501.44	243.831411	1378.2	false
13C7-PFUnA	570.0 / 525.0	3.74	83078.66	262.625897	2011.9	false
13C2-PFTeDA	715.0 / 670.0	4.50	68247.99	248.684444	1607.6	false
13C3-PFBS	302.0 / 99.0	1.53	26107.79	237.076959	877.3	false
13C3-PFHxS	402.0 / 99.0	2.29	20753.35	207.972468	453.5	false
13C8-PFOS	507.0 / 99.0	3.07	26052.21	231.104509	247.5	false

Sample Name	J8455-FS(0)	Injection Vial	33
Sample ID	VC-SO-FB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:34:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	91604.36	243.152322	1075.9	false
d3-MeFOSAA	573.0 / 419.0	3.58	14756.32	234.466431	224.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	18003.73	262.018523	225.2	false
13C5-PFHxA	318.0 / 273.0	1.85	59084.53	240.901593	614.5	false
13C4-PFHpA	367.0 / 322.0	2.26	68730.93	246.316230	834.8	false
13C8-PFOA	421.0 / 376.0	2.67	85723.10	252.545002	1414.0	false
13C9-PFNA	472.0 / 427.0	3.06	91202.04	235.309769	820.2	false
13C6-PFDA	519.0 / 474.0	3.42	99078.81	261.038437	2872.4	false
13C7-PFUnA	570.0 / 525.0	3.74	90706.02	258.709363	710.7	false
13C2-PFTeDA	715.0 / 670.0	4.49	73904.29	242.972116	1661.0	false
13C3-PFBS	302.0 / 99.0	1.53	24646.77	223.492524	494.8	false
13C3-PFHxS	402.0 / 99.0	2.28	21445.54	214.604246	393.2	false
13C8-PFOS	507.0 / 99.0	3.06	28420.72	251.757690	302.9	false

Sample Name	J8456-FS(0)	Injection Vial	34
Sample ID	VC-SO-EB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:45:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	94085.87	237.058646	1574.3	false
d3-MeFOSAA	573.0 / 419.0	3.58	14562.19	203.505729	211.0	false
d5-EtFOSAA	589.0 / 419.0	3.74	15399.53	197.117070	206.1	false
13C5-PFHxA	318.0 / 273.0	1.85	61334.47	238.076922	879.5	false
13C4-PFHpA	367.0 / 322.0	2.26	65444.91	223.286983	655.5	false
13C8-PFOA	421.0 / 376.0	2.67	88741.78	248.894785	1986.3	false
13C9-PFNA	472.0 / 427.0	3.06	87025.50	213.761103	1284540.1	false
13C6-PFDA	519.0 / 474.0	3.42	95455.61	238.722992	1479.3	false
13C7-PFUnA	570.0 / 525.0	3.74	90169.56	244.121000	883.0	false
13C2-PFTeDA	715.0 / 670.0	4.49	81356.14	253.890369	1892.7	false
13C3-PFBS	302.0 / 99.0	1.53	25457.17	203.030090	589.0	false
13C3-PFHxS	402.0 / 99.0	2.28	25619.80	225.488471	546.5	false
13C8-PFOS	507.0 / 99.0	3.06	26536.24	206.744694	256.6	false

Sample Name	J8457-FS(0)	Injection Vial	35
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:56:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	89827.09	262.532975	1006.2	false
d3-MeFOSAA	573.0 / 419.0	3.58	15020.43	487.024829	255.8	false
d5-EtFOSAA	589.0 / 419.0	3.74	17889.79	531.301152	217.5	false
13C5-PFHxA	318.0 / 273.0	1.85	55190.77	89.274653	185.2	false
13C4-PFHpA	367.0 / 322.0	2.26	49582.98	70.496770	346.1	false
13C8-PFOA	421.0 / 376.0	2.67	50165.88	58.633411	451.6	false
13C9-PFNA	472.0 / 427.0	3.07	39658.05	40.594066	344.7	false
13C6-PFDA	519.0 / 474.0	3.42	81608.17	236.739955	920.6	false
13C7-PFUnA	570.0 / 525.0	3.74	83665.46	262.746256	843.0	false
13C2-PFTeDA	715.0 / 670.0	4.49	70974.05	256.921587	2445.5	false
13C3-PFBS	302.0 / 99.0	1.52	27240.12	504.055311	287.4	false
13C3-PFHxS	402.0 / 99.0	2.28	15426.40	315.015506	226.1	false
13C8-PFOS	507.0 / 99.0	3.06	11625.07	210.140343	137.7	false

Sample Name	J8457-FS-D(3)	Injection Vial	36
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:07:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	96585.44	225.550562	1329.3	false
d3-MeFOSAA	573.0 / 419.0	3.58	15169.25	226.393119	213.2	false
d5-EtFOSAA	589.0 / 419.0	3.74	17637.53	241.103739	218.2	false
13C5-PFHxA	318.0 / 273.0	1.85	65865.41	246.395744	550.7	false
13C4-PFHpA	367.0 / 322.0	2.26	75505.69	248.273472	973.0	false
13C8-PFOA	421.0 / 376.0	2.67	82004.18	221.659716	2988.6	false
13C9-PFNA	472.0 / 427.0	3.06	91612.19	216.869550	89032.7	false
13C6-PFDA	519.0 / 474.0	3.42	106362.89	246.537960	1929.8	false
13C7-PFUnA	570.0 / 525.0	3.74	97970.03	245.832496	880.9	false
13C2-PFTeDA	715.0 / 670.0	4.49	77224.32	223.362809	1757.0	false
13C3-PFBS	302.0 / 99.0	1.53	34374.04	292.772425	710.1	false
13C3-PFHxS	402.0 / 99.0	2.28	23268.73	218.710927	633.7	false
13C8-PFOS	507.0 / 99.0	3.06	27688.90	230.382727	244.8	false

Sample Name	J8457-FS-D(5)	Injection Vial	37
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:18:02	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	89996.79	230.886785	1250.8	false
d3-MeFOSAA	573.0 / 419.0	3.58	15855.63	278.983842	237.1	false
d5-EtFOSAA	589.0 / 419.0	3.74	16030.64	258.352981	197.4	false
13C5-PFHxA	318.0 / 273.0	1.85	60224.65	241.311685	512.9	false
13C4-PFHpA	367.0 / 322.0	2.26	70822.59	249.431187	1105.1	false
13C8-PFOA	421.0 / 376.0	2.67	83485.14	241.706451	1754.3	false
13C9-PFNA	472.0 / 427.0	3.06	93285.55	236.530942	3980.0	false
13C6-PFDA	519.0 / 474.0	3.42	97249.71	247.640557	2106.6	false
13C7-PFUnA	570.0 / 525.0	3.74	91896.24	253.328229	941.1	false
13C2-PFTeDA	715.0 / 670.0	4.49	75876.64	241.104123	1830.9	false
13C3-PFBS	302.0 / 99.0	1.53	33549.94	336.889745	798.6	false
13C3-PFHxS	402.0 / 99.0	2.28	20604.31	228.324455	436.0	false
13C8-PFOS	507.0 / 99.0	3.06	27221.39	267.024437	227.3	false

Sample Name	J8457-FS-D(7)	Injection Vial	38
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:28:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	101505.45	246.160477	976.6	false
d3-MeFOSAA	573.0 / 419.0	3.58	17545.31	264.180802	194.3	false
d5-EtFOSAA	589.0 / 419.0	3.74	20563.34	283.596508	254.4	false
13C5-PFHxA	318.0 / 273.0	1.85	67026.59	244.523115	670.7	false
13C4-PFHpA	367.0 / 322.0	2.26	77442.85	248.329877	992.0	false
13C8-PFOA	421.0 / 376.0	2.67	97818.55	257.851104	1725.6	false
13C9-PFNA	472.0 / 427.0	3.06	98068.65	226.397943	1026.3	false
13C6-PFDA	519.0 / 474.0	3.42	110148.88	265.137084	1793.7	false
13C7-PFUnA	570.0 / 525.0	3.74	97051.12	252.896789	819.5	false
13C2-PFTeDA	715.0 / 670.0	4.49	84719.07	254.468866	1546.5	false
13C3-PFBS	302.0 / 99.0	1.52	32365.03	278.110106	704.1	false
13C3-PFHxS	402.0 / 99.0	2.28	28737.19	272.510500	489.7	false
13C8-PFOS	507.0 / 99.0	3.06	30334.65	254.638645	295.4	false

Sample Name	J8458-FS(0)	Injection Vial	41
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:01:33	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	82087.39	212.993353	948.0	false
d3-MeFOSAA	573.0 / 419.0	3.58	13479.36	306.748054	176.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	15492.36	322.921710	204.5	false
13C5-PFHxA	318.0 / 273.0	1.84	61795.40	185.840458	368.2	false
13C4-PFHpA	367.0 / 322.0	2.25	61159.03	161.666320	557.2	false
13C8-PFOA	421.0 / 376.0	2.67	60781.48	132.077959	970.1	false
13C9-PFNA	472.0 / 427.0	3.06	53665.04	102.128064	1105.6	false
13C6-PFDA	519.0 / 474.0	3.42	84255.58	216.994968	2342.4	false
13C7-PFUnA	570.0 / 525.0	3.74	83184.54	231.924171	864.2	false
13C2-PFTeDA	715.0 / 670.0	4.49	70203.52	225.617620	1588.9	false
13C3-PFBS	302.0 / 99.0	1.52	31993.06	415.497932	577.7	false
13C3-PFHxS	402.0 / 99.0	2.28	20949.36	300.249445	723.5	false
13C8-PFOS	507.0 / 99.0	3.06	17785.59	225.645185	217.5	false



Sample Name	J8458-FS-D(3)	Injection Vial	42
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:12:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	100076.66	245.797501	1149.2	false
d3-MeFOSAA	573.0 / 419.0	3.58	15056.14	215.025609	285.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	18294.93	239.317262	220.4	false
13C5-PFHxA	318.0 / 273.0	1.85	65037.03	246.700300	814.1	false
13C4-PFHpA	367.0 / 322.0	2.26	73802.32	246.067305	987.8	false
13C8-PFOA	421.0 / 376.0	2.67	93025.38	254.967871	1243.9	false
13C9-PFNA	472.0 / 427.0	3.06	94201.68	226.119053	1862.9	false
13C6-PFDA	519.0 / 474.0	3.42	102415.62	249.673388	1155.0	false
13C7-PFUnA	570.0 / 525.0	3.74	101644.49	268.251571	1880.4	false
13C2-PFTeDA	715.0 / 670.0	4.49	82274.55	250.284916	1554.1	false
13C3-PFBS	302.0 / 99.0	1.53	31202.40	254.310822	684.1	false
13C3-PFHxS	402.0 / 99.0	2.28	25724.68	231.379647	482.9	false
13C8-PFOS	507.0 / 99.0	3.06	31534.42	251.076667	306.9	false

Sample Name	J8458-FS-D(5)	Injection Vial	43
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:23:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	102547.95	259.437563	1272.6	false
d3-MeFOSAA	573.0 / 419.0	3.58	18450.53	255.098855	246.3	false
d5-EtFOSAA	589.0 / 419.0	3.74	17024.28	215.593354	238.2	false
13C5-PFHxA	318.0 / 273.0	1.85	63678.25	242.004218	685.4	false
13C4-PFHpA	367.0 / 322.0	2.26	73257.64	244.714456	854.2	false
13C8-PFOA	421.0 / 376.0	2.67	94308.00	258.973502	2543.8	false
13C9-PFNA	472.0 / 427.0	3.06	99856.71	240.147778	1089.5	false
13C6-PFDA	519.0 / 474.0	3.42	100427.86	252.186299	1278.9	false
13C7-PFUnA	570.0 / 525.0	3.74	99426.98	270.286226	940.2	false
13C2-PFTeDA	715.0 / 670.0	4.49	77627.28	243.245463	1832.7	false
13C3-PFBS	302.0 / 99.0	1.53	30426.70	240.079493	906.3	false
13C3-PFHxS	402.0 / 99.0	2.28	24639.18	214.548100	652.0	false
13C8-PFOS	507.0 / 99.0	3.06	30903.44	238.205379	312.1	false

Sample Name	J8459-FS(0)	Injection Vial	44
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:34:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	86747.32	216.271628	1278.9	false
d3-MeFOSAA	573.0 / 419.0	3.58	14207.13	249.384720	140.9	false
d5-EtFOSAA	589.0 / 419.0	3.74	14735.12	236.910368	200.7	false
13C5-PFHxA	318.0 / 273.0	1.85	49649.08	62.868758	319.1	false
13C4-PFHpA	367.0 / 322.0	2.25	55377.88	61.636058	751.8	false
13C8-PFOA	421.0 / 376.0	2.67	44325.36	40.555605	1096.2	false
13C9-PFNA	472.0 / 427.0	3.06	71814.50	57.544695	1088.5	false
13C6-PFDA	519.0 / 474.0	3.42	84724.77	209.659857	917.0	false
13C7-PFUnA	570.0 / 525.0	3.74	83434.80	223.513902	908.1	false
13C2-PFTeDA	715.0 / 670.0	4.49	65742.03	203.007045	1881.2	false
13C3-PFBS	302.0 / 99.0	1.52	28761.15	288.117939	715.1	false
13C3-PFHxS	402.0 / 99.0	2.28	19059.07	210.699672	366.8	false
13C8-PFOS	507.0 / 99.0	3.06	19974.80	195.474933	244.4	false

Sample Name	J8459-FS-D(3)	Injection Vial	45
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:44:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	96427.22	231.301948	1194.4	false
d3-MeFOSAA	573.0 / 419.0	3.58	15930.25	233.516842	196.8	false
d5-EtFOSAA	589.0 / 419.0	3.74	17801.55	239.012413	254.5	false
13C5-PFHxA	318.0 / 273.0	1.85	63249.27	233.062096	586.1	false
13C4-PFHpA	367.0 / 322.0	2.26	71504.55	231.592598	1000.6	false
13C8-PFOA	421.0 / 376.0	2.67	83781.14	223.068055	8740.5	false
13C9-PFNA	472.0 / 427.0	3.06	91597.51	213.584300	24742.2	false
13C6-PFDA	519.0 / 474.0	3.42	102501.51	244.045766	937.4	false
13C7-PFUnA	570.0 / 525.0	3.73	100224.26	258.324889	981.5	false
13C2-PFTeDA	715.0 / 670.0	4.49	76259.46	226.567634	1484.1	false
13C3-PFBS	302.0 / 99.0	1.52	30312.19	253.579127	615.4	false
13C3-PFHxS	402.0 / 99.0	2.28	25156.66	232.245503	769.6	false
13C8-PFOS	507.0 / 99.0	3.06	28221.22	230.630406	323.5	false

Sample Name	J8459-FS-D(5)	Injection Vial	46
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:55:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	102064.86	266.916341	1402.6	false
d3-MeFOSAA	573.0 / 419.0	3.58	16466.76	245.496294	264.6	false
d5-EtFOSAA	589.0 / 419.0	3.74	19087.68	260.649480	227.6	false
13C5-PFHxA	318.0 / 273.0	1.85	60339.33	246.828890	868.1	false
13C4-PFHpA	367.0 / 322.0	2.26	66635.92	239.595564	707.1	false
13C8-PFOA	421.0 / 376.0	2.67	85305.93	252.144602	2394.9	false
13C9-PFNA	472.0 / 427.0	3.06	93060.57	240.896613	1249.8	false
13C6-PFDA	519.0 / 474.0	3.42	105340.05	273.434831	5577.5	false
13C7-PFUnA	570.0 / 525.0	3.74	97051.27	272.718087	960.0	false
13C2-PFTeDA	715.0 / 670.0	4.49	74267.01	240.557757	1301.0	false
13C3-PFBS	302.0 / 99.0	1.52	25460.01	216.618657	576.4	false
13C3-PFHxS	402.0 / 99.0	2.28	23911.07	224.509395	437.9	false
13C8-PFOS	507.0 / 99.0	3.06	28268.92	234.958439	362.9	false

Sample Name	J8460-FS(0)	Injection Vial	47
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:06:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	84789.17	252.911279	870.0	false
d3-MeFOSAA	573.0 / 419.0	3.58	12703.83	372.756924	176.3	true
d5-EtFOSAA	589.0 / 419.0	3.74	13949.82	374.909621	202.3	true
13C5-PFHxA	318.0 / 273.0	1.85	54072.25	97.378105	388.5	false
13C4-PFHpA	367.0 / 322.0	2.25	53319.14	84.400482	599.7	false
13C8-PFOA	421.0 / 376.0	2.67	46113.98	60.005968	875.2	false
13C9-PFNA	472.0 / 427.0	3.06	48478.27	55.246337	646.8	false
13C6-PFDA	519.0 / 474.0	3.41	86043.58	254.746205	829.0	false
13C7-PFUnA	570.0 / 525.0	3.74	81549.81	261.375314	944.9	false
13C2-PFTeDA	715.0 / 670.0	4.49	70245.16	259.518748	1240.5	false
13C3-PFBS	302.0 / 99.0	1.52	30292.98	507.263280	576.0	false
13C3-PFHxS	402.0 / 99.0	2.28	19921.70	368.142545	352.4	false
13C8-PFOS	507.0 / 99.0	3.06	15921.44	260.446414	187.1	false

Sample Name	J8460-FS-D(3)	Injection Vial	48
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:17:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	92649.14	222.271321	1222.3	false
d3-MeFOSAA	573.0 / 419.0	3.58	14870.58	263.935668	250.1	false
d5-EtFOSAA	589.0 / 419.0	3.74	17068.44	277.479530	233.3	false
13C5-PFHxA	318.0 / 273.0	1.85	60106.76	248.785371	699.6	false
13C4-PFHpA	367.0 / 322.0	2.26	66766.73	242.905054	1040.6	false
13C8-PFOA	421.0 / 376.0	2.67	83548.08	249.869365	1267.8	false
13C9-PFNA	472.0 / 427.0	3.06	85488.99	223.914005	1169.5	false
13C6-PFDA	519.0 / 474.0	3.42	94410.68	224.814641	1777.0	false
13C7-PFUnA	570.0 / 525.0	3.74	87478.65	225.505903	1320.9	false
13C2-PFTeDA	715.0 / 670.0	4.49	76670.40	227.821292	1525.0	false
13C3-PFBS	302.0 / 99.0	1.52	31166.38	315.687266	696.9	false
13C3-PFHxS	402.0 / 99.0	2.28	23202.63	259.361926	760.2	false
13C8-PFOS	507.0 / 99.0	3.06	27583.63	272.939695	336.8	false

Sample Name	J8460-FS-D(5)	Injection Vial	49
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:28:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	96412.94	254.692799	1026.5	false
d3-MeFOSAA	573.0 / 419.0	3.58	16345.34	296.732574	237.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	17076.79	283.951565	220.9	false
13C5-PFHxA	318.0 / 273.0	1.85	60501.92	269.185086	799.3	false
13C4-PFHpA	367.0 / 322.0	2.26	67981.04	265.854814	938.3	false
13C8-PFOA	421.0 / 376.0	2.67	86988.37	279.652045	17020.8	false
13C9-PFNA	472.0 / 427.0	3.06	88026.66	247.836683	1425.9	false
13C6-PFDA	519.0 / 474.0	3.42	100285.18	262.953841	1670.0	false
13C7-PFUnA	570.0 / 525.0	3.73	92869.20	263.612996	1024.6	false
13C2-PFTeDA	715.0 / 670.0	4.49	73944.30	241.941595	2037.4	false
13C3-PFBS	302.0 / 99.0	1.52	29022.12	300.677376	709.6	false
13C3-PFHxS	402.0 / 99.0	2.28	23468.85	268.325337	561.5	false
13C8-PFOS	507.0 / 99.0	3.06	26237.54	265.545731	271.0	false



Sample Name	J8461-FS(0)	Injection Vial	52
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:01:04	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	83710.69	235.801904	1002.3	false
d3-MeFOSAA	573.0 / 419.0	3.58	12116.72	344.016527	169.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	14780.55	384.371935	229.8	true
13C5-PFHxA	318.0 / 273.0	1.85	55225.02	97.843549	397.2	false
13C4-PFHpA	367.0 / 322.0	2.25	53466.30	83.262872	615.3	false
13C8-PFOA	421.0 / 376.0	2.67	43301.17	55.433330	918.5	false
13C9-PFNA	472.0 / 427.0	3.06	44396.79	49.775702	729.1	false
13C6-PFDA	519.0 / 474.0	3.42	88029.71	246.125764	1081.7	false
13C7-PFUnA	570.0 / 525.0	3.73	84921.64	257.038720	792.7	false
13C2-PFTeDA	715.0 / 670.0	4.49	65151.90	227.309720	1782.6	false
13C3-PFBS	302.0 / 99.0	1.52	30430.21	493.059850	575.5	false
13C3-PFHxS	402.0 / 99.0	2.28	15903.59	284.372888	298.9	false
13C8-PFOS	507.0 / 99.0	3.06	14842.48	234.933989	188.9	false

Sample Name	J8461-FS-D(3)	Injection Vial	53
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:11:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	93776.45	229.200179	1101.4	false
d3-MeFOSAA	573.0 / 419.0	3.58	16650.34	306.334089	221.3	false
d5-EtFOSAA	589.0 / 419.0	3.74	16420.72	276.714215	233.8	false
13C5-PFHxA	318.0 / 273.0	1.85	63918.86	246.067964	552.4	false
13C4-PFHpA	367.0 / 322.0	2.26	74288.78	251.376187	2865.0	false
13C8-PFOA	421.0 / 376.0	2.67	83974.37	233.586517	1609.0	false
13C9-PFNA	472.0 / 427.0	3.06	82670.17	201.393008	4827.5	false
13C6-PFDA	519.0 / 474.0	3.42	101345.25	245.858921	6441511.0	false
13C7-PFUnA	570.0 / 525.0	3.74	99049.92	260.129191	721.4	false
13C2-PFTeDA	715.0 / 670.0	4.48	78554.94	237.804017	1490.1	false
13C3-PFBS	302.0 / 99.0	1.52	29764.35	312.513730	590.4	false
13C3-PFHxS	402.0 / 99.0	2.28	23101.25	267.674098	518.5	false
13C8-PFOS	507.0 / 99.0	3.06	25993.45	266.612962	228.1	false

Sample Name	J8461-FS-D(5)	Injection Vial	54
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:22:47	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	99404.55	252.516095	1148.1	false
d3-MeFOSAA	573.0 / 419.0	3.58	18773.06	292.220581	356.9	false
d5-EtFOSAA	589.0 / 419.0	3.74	20545.29	292.924025	263.8	false
13C5-PFHxA	318.0 / 273.0	1.85	61356.59	241.850655	662.4	false
13C4-PFHpA	367.0 / 322.0	2.26	71015.30	246.044060	1034.3	false
13C8-PFOA	421.0 / 376.0	2.67	89034.48	253.582486	5094.8	false
13C9-PFNA	472.0 / 427.0	3.06	98734.78	246.278068	3207321.6	false
13C6-PFDA	519.0 / 474.0	3.41	99933.52	251.973819	1415.2	false
13C7-PFUnA	570.0 / 525.0	3.73	105122.97	286.942074	1074.3	false
13C2-PFTeDA	715.0 / 670.0	4.49	82457.84	259.441409	1909.2	false
13C3-PFBS	302.0 / 99.0	1.52	28133.15	249.916264	632.1	false
13C3-PFHxS	402.0 / 99.0	2.28	23966.32	234.950133	486.5	false
13C8-PFOS	507.0 / 99.0	3.06	29910.77	259.566332	446.4	false

Sample Name	J8462-FS(0)	Injection Vial	1
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:33:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	79841.03	233.351875	841.9	false
d3-MeFOSAA	573.0 / 419.0	3.58	13676.45	514.593820	153.9	false
d5-EtFOSAA	589.0 / 419.0	3.74	13459.43	463.857618	209.2	false
13C5-PFHxA	318.0 / 273.0	1.85	58132.55	172.097054	316.7	false
13C4-PFHpA	367.0 / 322.0	2.25	58318.00	151.750990	658.1	false
13C8-PFOA	421.0 / 376.0	2.67	52139.10	111.530216	822.2	false
13C9-PFNA	472.0 / 427.0	3.06	41399.66	77.556885	584.4	false
13C6-PFDA	519.0 / 474.0	3.41	78520.49	227.787326	975.7	false
13C7-PFUnA	570.0 / 525.0	3.73	78538.66	246.650749	733.1	false
13C2-PFTeDA	715.0 / 670.0	4.49	66135.87	239.412434	1434.1	false
13C3-PFBS	302.0 / 99.0	1.52	32402.61	695.779461	378.0	false
13C3-PFHxS	402.0 / 99.0	2.28	19956.31	472.900709	345.3	false
13C8-PFOS	507.0 / 99.0	3.06	12831.43	269.160357	183.5	false

Sample Name	J8462-FS-D(3)	Injection Vial	2
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:44:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	105940.96	263.257817	1020.4	false
d3-MeFOSAA	573.0 / 419.0	3.58	19400.32	351.132053	262.2	false
d5-EtFOSAA	589.0 / 419.0	3.74	20741.81	343.854893	237.8	false
13C5-PFHxA	318.0 / 273.0	1.84	69080.25	273.126448	597.6	false
13C4-PFHpA	367.0 / 322.0	2.26	78399.66	272.457569	774.3	false
13C8-PFOA	421.0 / 376.0	2.67	94920.50	271.172007	1175.5	false
13C9-PFNA	472.0 / 427.0	3.06	92942.88	232.538831	867.1	false
13C6-PFDA	519.0 / 474.0	3.41	114103.58	281.434956	966.7	false
13C7-PFUnA	570.0 / 525.0	3.74	106239.02	283.671170	837.5	false
13C2-PFTeDA	715.0 / 670.0	4.49	82102.97	252.697370	1265.5	false
13C3-PFBS	302.0 / 99.0	1.52	33346.96	344.443751	980.6	false
13C3-PFHxS	402.0 / 99.0	2.28	26584.48	303.032065	559.0	false
13C8-PFOS	507.0 / 99.0	3.06	26888.78	271.317518	249.0	false

Sample Name	J8462-FS-D(5)	Injection Vial	3
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:55:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	109808.78	275.940058	1275.4	false
d3-MeFOSAA	573.0 / 419.0	3.58	16824.63	270.542777	201.1	false
d5-EtFOSAA	589.0 / 419.0	3.74	18585.13	273.730281	208.0	false
13C5-PFHxA	318.0 / 273.0	1.85	69213.70	271.473036	732.2	false
13C4-PFHpA	367.0 / 322.0	2.26	78822.39	271.743491	980.0	false
13C8-PFOA	421.0 / 376.0	2.67	100537.95	284.930967	1305.2	false
13C9-PFNA	472.0 / 427.0	3.06	99308.80	246.485796	1096.2	false
13C6-PFDA	519.0 / 474.0	3.42	111120.80	277.162509	1110.5	false
13C7-PFUnA	570.0 / 525.0	3.74	104306.75	281.646208	1014.0	false
13C2-PFTeDA	715.0 / 670.0	4.49	83859.35	261.007915	1893.9	false
13C3-PFBS	302.0 / 99.0	1.52	30335.23	278.380068	637.5	false
13C3-PFHxS	402.0 / 99.0	2.28	26789.46	271.302079	480.2	false
13C8-PFOS	507.0 / 99.0	3.06	26238.25	235.217891	231.3	false

Sample Name	J8463MS-FS(0)	Injection Vial	4
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:06:18	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	76104.92	256.361366	921.5	false
d3-MeFOSAA	573.0 / 419.0	3.58	12439.33	431.865619	137.5	true
d5-EtFOSAA	589.0 / 419.0	3.74	11285.31	358.865714	173.1	false
13C5-PFHxA	318.0 / 273.0	1.85	48357.03	197.010737	406.7	false
13C4-PFHpA	367.0 / 322.0	2.26	55391.00	198.355546	763.0	false
13C8-PFOA	421.0 / 376.0	2.67	49887.32	146.857262	768.7	false
13C9-PFNA	472.0 / 427.0	3.06	42114.08	108.574322	871.9	false
13C6-PFDA	519.0 / 474.0	3.42	68185.34	227.977631	567.6	false
13C7-PFUnA	570.0 / 525.0	3.74	64645.81	233.988222	455.0	false
13C2-PFTeDA	715.0 / 670.0	4.49	66232.21	276.333520	1307.2	false
13C3-PFBS	302.0 / 99.0	1.52	28723.73	569.105648	439.8	false
13C3-PFHxS	402.0 / 99.0	2.28	16188.31	353.957990	423.8	false
13C8-PFOS	507.0 / 99.0	3.06	12710.75	246.018431	166.0	false

Sample Name	J8463MS-FS-D(3)	Injection Vial	5
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:17:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	98278.72	241.358773	1457.1	false
d3-MeFOSAA	573.0 / 419.0	3.58	15332.13	252.484284	223.8	false
d5-EtFOSAA	589.0 / 419.0	3.74	18451.16	278.305904	192.2	false
13C5-PFHxA	318.0 / 273.0	1.85	69793.41	276.701502	749.0	false
13C4-PFHpA	367.0 / 322.0	2.26	80603.48	280.883200	1210.2	false
13C8-PFOA	421.0 / 376.0	2.67	83438.03	239.021035	1597.2	false
13C9-PFNA	472.0 / 427.0	3.06	89711.85	225.069369	1061.4	false
13C6-PFDA	519.0 / 474.0	3.42	105288.18	256.651980	1910.2	false
13C7-PFUnA	570.0 / 525.0	3.74	94740.12	250.006510	1101.5	false
13C2-PFTeDA	715.0 / 670.0	4.49	80877.07	246.010434	1512.0	false
13C3-PFBS	302.0 / 99.0	1.52	33768.21	317.351347	880.7	false
13C3-PFHxS	402.0 / 99.0	2.28	21560.04	223.604271	414.7	false
13C8-PFOS	507.0 / 99.0	3.06	27511.88	252.578964	342.7	false



Sample Name	J8463MS-FS-D(5)	Injection Vial	6
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:28:05	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	96727.17	242.295209	966.5	false
d3-MeFOSAA	573.0 / 419.0	3.58	13593.00	186.957895	205.9	false
d5-EtFOSAA	589.0 / 419.0	3.74	17861.78	225.019612	237.0	false
13C5-PFHxA	318.0 / 273.0	1.85	65636.12	254.035171	761.6	false
13C4-PFHpA	367.0 / 322.0	2.26	71534.64	243.356108	915.0	false
13C8-PFOA	421.0 / 376.0	2.67	92689.03	259.211506	835467.0	false
13C9-PFNA	472.0 / 427.0	3.06	96401.32	236.104040	1491.8	false
13C6-PFDA	519.0 / 474.0	3.42	104201.52	259.078755	2281.6	false
13C7-PFUnA	570.0 / 525.0	3.74	101707.44	273.755516	858.3	false
13C2-PFTeDA	715.0 / 670.0	4.49	80176.52	248.752847	1913.9	false
13C3-PFBS	302.0 / 99.0	1.52	29607.29	232.395462	580.6	false
13C3-PFHxS	402.0 / 99.0	2.28	27282.26	236.323889	566.2	false
13C8-PFOS	507.0 / 99.0	3.06	29366.11	225.174951	263.3	false

Sample Name	J8464MSD-FS(0)	Injection Vial	9
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:00:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	105851.90	291.386605	943.1	false
d3-MeFOSAA	573.0 / 419.0	3.57	16968.19	493.942593	177.5	false
d5-EtFOSAA	589.0 / 419.0	3.73	15640.64	417.025323	188.4	true
13C5-PFHxA	318.0 / 273.0	1.84	68101.48	231.275407	389.3	false
13C4-PFHpA	367.0 / 322.0	2.25	67172.86	200.512582	707.9	false
13C8-PFOA	421.0 / 376.0	2.67	62415.29	153.157720	970.8	false
13C9-PFNA	472.0 / 427.0	3.06	51124.52	109.868125	561.3	false
13C6-PFDA	519.0 / 474.0	3.41	93370.50	255.118533	892.9	false
13C7-PFUnA	570.0 / 525.0	3.73	87018.56	257.392934	842.5	false
13C2-PFTeDA	715.0 / 670.0	4.48	79517.85	271.119056	1576.0	false
13C3-PFBS	302.0 / 99.0	1.52	34131.67	567.020788	640.3	false
13C3-PFHxS	402.0 / 99.0	2.28	23213.13	425.572302	476.1	false
13C8-PFOS	507.0 / 99.0	3.06	15945.23	258.771771	164.6	false

Sample Name	J8464MSD-FS-D(3)	Injection Vial	10
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:11:37	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	101457.81	261.651567	1435.2	false
d3-MeFOSAA	573.0 / 419.0	3.58	16495.32	278.263627	219.9	false
d5-EtFOSAA	589.0 / 419.0	3.74	17056.59	263.545069	195.6	false
13C5-PFHxA	318.0 / 273.0	1.84	67467.81	272.852602	474.8	false
13C4-PFHpA	367.0 / 322.0	2.25	74951.45	266.432009	1087.2	false
13C8-PFOA	421.0 / 376.0	2.67	84202.87	246.055655	1236.9	false
13C9-PFNA	472.0 / 427.0	3.06	85217.42	218.086790	1040.5	false
13C6-PFDA	519.0 / 474.0	3.41	101829.51	260.659128	2282.9	false
13C7-PFUnA	570.0 / 525.0	3.73	100738.32	279.155609	901.3	false
13C2-PFTeDA	715.0 / 670.0	4.48	79357.91	253.485190	1847.4	false
13C3-PFBS	302.0 / 99.0	1.52	33197.47	319.595774	638.3	false
13C3-PFHxS	402.0 / 99.0	2.28	22344.44	237.390756	428.6	false
13C8-PFOS	507.0 / 99.0	3.06	27749.89	260.976785	270.1	false

Sample Name	J8464MSD-FS-D(5)	Injection Vial	11
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:22:30	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	107845.61	260.603845	1054.9	false
d3-MeFOSAA	573.0 / 419.0	3.58	18346.44	252.020227	219.8	false
d5-EtFOSAA	589.0 / 419.0	3.74	19913.77	250.555623	268.9	false
13C5-PFHxA	318.0 / 273.0	1.85	70774.71	275.344810	759.9	false
13C4-PFHpA	367.0 / 322.0	2.26	78720.44	269.191422	882.7	false
13C8-PFOA	421.0 / 376.0	2.67	93605.94	263.134122	1100.3	false
13C9-PFNA	472.0 / 427.0	3.06	100429.82	247.246972	997.3	false
13C6-PFDA	519.0 / 474.0	3.41	111083.50	266.433801	2352.1	false
13C7-PFUnA	570.0 / 525.0	3.74	105375.09	273.608839	844.1	false
13C2-PFTeDA	715.0 / 670.0	4.49	83992.57	251.387525	1785.8	false
13C3-PFBS	302.0 / 99.0	1.52	30897.40	242.217819	822.6	false
13C3-PFHxS	402.0 / 99.0	2.28	29679.31	256.765217	993.8	false
13C8-PFOS	507.0 / 99.0	3.06	29536.25	226.195578	268.4	false

Sample Name	J8477-FS(0)	Injection Vial	12
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:33:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	100110.05	245.681034	827.0	false
d3-MeFOSAA	573.0 / 419.0	3.57	17661.19	508.499354	171.2	false
d5-EtFOSAA	589.0 / 419.0	3.73	20842.54	549.652248	217.8	false
13C5-PFHxA	318.0 / 273.0	1.84	73666.14	140.881353	151.2	false
13C4-PFHpA	367.0 / 322.0	2.25	68043.87	114.379846	303.3	false
13C8-PFOA	421.0 / 376.0	2.67	60621.87	83.770272	360.6	false
13C9-PFNA	472.0 / 427.0	3.06	52485.80	63.518018	326.5	false
13C6-PFDA	519.0 / 474.0	3.41	92978.68	226.484632	539.4	false
13C7-PFUnA	570.0 / 525.0	3.73	101388.35	267.359607	470.3	false
13C2-PFTeDA	715.0 / 670.0	4.49	58500.44	177.818767	1342.2	false
13C3-PFBS	302.0 / 99.0	1.52	28137.43	462.333554	298.5	false
13C3-PFHxS	402.0 / 99.0	2.28	22135.69	401.386067	185.2	false
13C8-PFOS	507.0 / 99.0	3.05	16321.15	261.978890	119.3	false

Sample Name	J8477-FS-D(3)	Injection Vial	13
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:44:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	109199.97	259.459864	1712.8	false
d3-MeFOSAA	573.0 / 419.0	3.58	18109.38	293.352108	201.9	false
d5-EtFOSAA	589.0 / 419.0	3.73	21394.60	317.436369	237.9	false
13C5-PFHxA	318.0 / 273.0	1.84	78844.54	273.729712	282.0	false
13C4-PFHpA	367.0 / 322.0	2.25	86795.19	264.862743	815.3	false
13C8-PFOA	421.0 / 376.0	2.67	86029.96	215.811727	773.6	false
13C9-PFNA	472.0 / 427.0	3.06	92138.92	202.424460	588.3	false
13C6-PFDA	519.0 / 474.0	3.41	107854.52	254.359196	881.9	false
13C7-PFUnA	570.0 / 525.0	3.73	110626.29	282.435840	679.8	false
13C2-PFTeDA	715.0 / 670.0	4.48	85411.46	251.355468	1576.9	false
13C3-PFBS	302.0 / 99.0	1.52	43345.99	400.714452	570.4	false
13C3-PFHxS	402.0 / 99.0	2.28	27650.50	282.089774	578.8	false
13C8-PFOS	507.0 / 99.0	3.06	28394.06	256.423724	252.7	false

Sample Name	J8477-FS-D(5)	Injection Vial	14
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:55:10	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	93189.77	245.549778	1172.8	false
d3-MeFOSAA	573.0 / 419.0	3.58	16318.54	245.117378	248.0	false
d5-EtFOSAA	589.0 / 419.0	3.74	17023.31	234.209154	203.7	false
13C5-PFHxA	318.0 / 273.0	1.85	62713.02	262.677731	664.2	false
13C4-PFHpA	367.0 / 322.0	2.26	66936.40	246.435229	1172.5	false
13C8-PFOA	421.0 / 376.0	2.67	84663.82	256.234966	1760.1	false
13C9-PFNA	472.0 / 427.0	3.06	86675.37	229.736916	695.4	false
13C6-PFDA	519.0 / 474.0	3.41	100057.16	261.686221	1131.8	false
13C7-PFUnA	570.0 / 525.0	3.73	95677.15	270.890206	766.1	false
13C2-PFTeDA	715.0 / 670.0	4.48	75502.39	246.408969	1265.5	false
13C3-PFBS	302.0 / 99.0	1.52	28845.86	247.273027	610.1	false
13C3-PFHxS	402.0 / 99.0	2.28	22538.09	213.210528	390.9	false
13C8-PFOS	507.0 / 99.0	3.06	26695.42	223.549980	223.3	false

Sample Name	J8478-FS(0)	Injection Vial	15
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:06:03	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	85329.56	218.952866	1153.7	false
d3-MeFOSAA	573.0 / 419.0	3.58	16225.21	351.282372	153.0	false
d5-EtFOSAA	589.0 / 419.0	3.73	17173.64	340.561225	179.7	false
13C5-PFHxA	318.0 / 273.0	1.85	52877.28	75.305412	190.0	false
13C4-PFHpA	367.0 / 322.0	2.25	58824.09	73.635488	432.8	false
13C8-PFOA	421.0 / 376.0	2.67	45445.82	46.765540	467.4	false
13C9-PFNA	472.0 / 427.0	3.06	60918.28	54.900239	477.6	false
13C6-PFDA	519.0 / 474.0	3.41	86730.75	220.894870	627.1	false
13C7-PFUnA	570.0 / 525.0	3.73	93053.02	256.563796	623.2	false
13C2-PFTeDA	715.0 / 670.0	4.48	56619.29	179.945104	1199.6	false
13C3-PFBS	302.0 / 99.0	1.52	29465.51	364.066245	434.2	false
13C3-PFHxS	402.0 / 99.0	2.28	19470.42	265.485036	232.2	false
13C8-PFOS	507.0 / 99.0	3.06	19226.40	232.064619	191.3	false



Sample Name	J8478-FS-D(3)	Injection Vial	16
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:16:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	94837.45	263.758628	1108.5	false
d3-MeFOSAA	573.0 / 419.0	3.58	16523.55	256.637461	178.7	false
d5-EtFOSAA	589.0 / 419.0	3.74	18926.30	269.246196	229.7	false
13C5-PFHxA	318.0 / 273.0	1.85	61961.91	211.913468	397.9	false
13C4-PFHpA	367.0 / 322.0	2.26	73835.96	221.960952	768.9	false
13C8-PFOA	421.0 / 376.0	2.67	80012.29	197.726746	731.7	false
13C9-PFNA	472.0 / 427.0	3.06	86130.58	186.406322	1885.3	false
13C6-PFDA	519.0 / 474.0	3.42	103335.32	285.257453	913.0	false
13C7-PFUnA	570.0 / 525.0	3.73	95492.63	285.371394	609.2	false
13C2-PFTeDA	715.0 / 670.0	4.48	76210.72	262.523018	1517.5	false
13C3-PFBS	302.0 / 99.0	1.53	34599.48	306.681007	659.5	false
13C3-PFHxS	402.0 / 99.0	2.28	23295.20	227.867310	353.7	false
13C8-PFOS	507.0 / 99.0	3.06	25554.30	221.271651	250.8	false

Sample Name	J8478-FS-D(5)	Injection Vial	17
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:27:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	111261.06	246.088281	1182.7	false
d3-MeFOSAA	573.0 / 419.0	3.58	20523.55	266.760467	244.2	false
d5-EtFOSAA	589.0 / 419.0	3.74	21881.01	260.497357	279.9	false
13C5-PFHxA	318.0 / 273.0	1.85	74952.28	272.640486	684.1	false
13C4-PFHpA	367.0 / 322.0	2.26	79558.83	254.371692	1031.5	false
13C8-PFOA	421.0 / 376.0	2.67	106174.61	279.062278	1097.7	false
13C9-PFNA	472.0 / 427.0	3.06	103813.57	238.962148	917.8	false
13C6-PFDA	519.0 / 474.0	3.42	116460.10	255.673838	1063.8	false
13C7-PFUnA	570.0 / 525.0	3.74	111106.17	264.058213	903.6	false
13C2-PFTeDA	715.0 / 670.0	4.49	90627.75	248.275262	2256.6	false
13C3-PFBS	302.0 / 99.0	1.52	35714.40	264.918871	972.0	false
13C3-PFHxS	402.0 / 99.0	2.28	25969.21	212.582005	547.3	false
13C8-PFOS	507.0 / 99.0	3.06	34907.30	252.947462	308.0	false

Sample Name	J8479-FS(0)	Injection Vial	20
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:00:25	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.01	86483.18	224.456074	657.2	false
d3-MeFOSAA	573.0 / 419.0	3.57	13465.79	323.700812	217.8	false
d5-EtFOSAA	589.0 / 419.0	3.73	15016.41	330.632176	214.0	false
13C5-PFHxA	318.0 / 273.0	1.84	54820.50	78.467794	339.9	false
13C4-PFHpA	367.0 / 322.0	2.25	60029.81	75.524926	720.2	false
13C8-PFOA	421.0 / 376.0	2.66	42168.39	43.612449	709.6	false
13C9-PFNA	472.0 / 427.0	3.06	48936.44	44.325168	2616.7	false
13C6-PFDA	519.0 / 474.0	3.41	89996.06	231.837997	801.4	false
13C7-PFUnA	570.0 / 525.0	3.72	86573.42	241.433782	633.8	false
13C2-PFTeDA	715.0 / 670.0	4.48	68948.28	221.639759	1566.8	false
13C3-PFBS	302.0 / 99.0	1.52	30758.37	421.964229	614.8	false
13C3-PFHxS	402.0 / 99.0	2.28	19098.54	289.141692	393.8	false
13C8-PFOS	507.0 / 99.0	3.05	14406.27	193.067140	215.3	false

Sample Name	J8479-FS-D(3)	Injection Vial	21
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:11:19	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	90855.49	227.500991	1290.3	false
d3-MeFOSAA	573.0 / 419.0	3.57	15376.05	261.472120	292.0	false
d5-EtFOSAA	589.0 / 419.0	3.73	16556.18	257.874047	254.8	false
13C5-PFHxA	318.0 / 273.0	1.84	61029.59	219.407448	520.0	false
13C4-PFHpA	367.0 / 322.0	2.25	74112.75	234.195583	1371.1	false
13C8-PFOA	421.0 / 376.0	2.66	73284.05	190.368599	1268.9	false
13C9-PFNA	472.0 / 427.0	3.05	91556.75	208.291113	914.6	false
13C6-PFDA	519.0 / 474.0	3.41	98849.70	245.679483	1129.1	false
13C7-PFUnA	570.0 / 525.0	3.73	95911.09	258.056478	962.5	false
13C2-PFTeDA	715.0 / 670.0	4.48	73822.58	228.952733	2073.2	false
13C3-PFBS	302.0 / 99.0	1.52	31357.83	304.317616	646.1	false
13C3-PFHxS	402.0 / 99.0	2.28	23754.18	254.401393	709.3	false
13C8-PFOS	507.0 / 99.0	3.05	26178.77	248.184679	364.2	false

Sample Name	J8479-FS-D(5)	Injection Vial	22
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:22:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	108292.56	247.387720	1167.2	false
d3-MeFOSAA	573.0 / 419.0	3.57	20448.77	277.530381	325.6	false
d5-EtFOSAA	589.0 / 419.0	3.73	20351.26	252.988943	233.2	false
13C5-PFHxA	318.0 / 273.0	1.84	72921.70	267.414394	603.6	false
13C4-PFHpA	367.0 / 322.0	2.25	79418.79	255.991839	1189.3	false
13C8-PFOA	421.0 / 376.0	2.66	98432.76	260.821049	1720.5	false
13C9-PFNA	472.0 / 427.0	3.05	108005.88	250.636841	969.7	false
13C6-PFDA	519.0 / 474.0	3.41	114387.50	259.369850	2306.7	false
13C7-PFUnA	570.0 / 525.0	3.73	114101.73	280.082215	2729.4	false
13C2-PFTeDA	715.0 / 670.0	4.48	90606.89	256.368858	1229.9	false
13C3-PFBS	302.0 / 99.0	1.52	32326.49	250.381570	673.9	false
13C3-PFHxS	402.0 / 99.0	2.28	27630.18	236.170523	509.5	false
13C8-PFOS	507.0 / 99.0	3.05	33298.53	251.949453	331.8	false

Sample Name	J8480-FS(0)	Injection Vial	23
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:33:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	93510.12	226.256814	1356.9	false
d3-MeFOSAA	573.0 / 419.0	3.57	14390.13	347.651403	225.9	false
d5-EtFOSAA	589.0 / 419.0	3.73	16478.87	364.647854	233.7	false
13C5-PFHxA	318.0 / 273.0	1.85	60734.93	83.310622	381.7	false
13C4-PFHpA	367.0 / 322.0	2.25	61175.24	73.758564	720.4	false
13C8-PFOA	421.0 / 376.0	2.67	44347.44	43.954706	697.1	false
13C9-PFNA	472.0 / 427.0	3.06	48356.09	41.974214	789.4	false
13C6-PFDA	519.0 / 474.0	3.41	96205.55	231.049241	916.0	false
13C7-PFUnA	570.0 / 525.0	3.73	88711.77	230.641813	841.6	false
13C2-PFTeDA	715.0 / 670.0	4.48	72093.50	216.054659	1417.4	false
13C3-PFBS	302.0 / 99.0	1.52	34931.15	481.606675	562.1	false
13C3-PFHxS	402.0 / 99.0	2.28	23016.46	350.200183	516.1	false
13C8-PFOS	507.0 / 99.0	3.06	14339.66	193.135971	165.0	false

Sample Name	J8480-FS-D(3)	Injection Vial	24
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:44:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	98234.05	239.077358	1225.3	false
d3-MeFOSAA	573.0 / 419.0	3.58	17414.94	318.268637	227.9	false
d5-EtFOSAA	589.0 / 419.0	3.73	17798.96	297.943098	244.0	false
13C5-PFHxA	318.0 / 273.0	1.85	63452.53	204.772354	533.4	false
13C4-PFHpA	367.0 / 322.0	2.25	76501.78	217.004538	1065.1	false
13C8-PFOA	421.0 / 376.0	2.67	75753.15	176.643664	344.2	false
13C9-PFNA	472.0 / 427.0	3.06	86595.49	176.842704	33101.2	false
13C6-PFDA	519.0 / 474.0	3.41	108290.25	261.593638	2197.0	false
13C7-PFUnA	570.0 / 525.0	3.73	99738.26	260.826655	1114.9	false
13C2-PFTeDA	715.0 / 670.0	4.48	78328.14	236.112352	1620.4	false
13C3-PFBS	302.0 / 99.0	1.52	33447.25	348.845188	668.8	false
13C3-PFHxS	402.0 / 99.0	2.28	24874.10	286.297757	601.8	false
13C8-PFOS	507.0 / 99.0	3.06	26135.62	266.286841	271.6	false

Sample Name	J8480-FS-D(5)	Injection Vial	25
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:54:54	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	103263.02	264.037602	1147.2	false
d3-MeFOSAA	573.0 / 419.0	3.58	19486.14	296.541892	313.2	false
d5-EtFOSAA	589.0 / 419.0	3.73	18866.93	262.983522	203.7	false
13C5-PFHxA	318.0 / 273.0	1.85	68581.63	287.938786	681.2	false
13C4-PFHpA	367.0 / 322.0	2.25	70050.17	258.509460	1122.9	false
13C8-PFOA	421.0 / 376.0	2.67	83779.97	254.160204	467.6	false
13C9-PFNA	472.0 / 427.0	3.06	99055.79	263.173270	1531.1	false
13C6-PFDA	519.0 / 474.0	3.41	103537.56	262.772740	4158.1	false
13C7-PFUnA	570.0 / 525.0	3.73	99998.53	274.744086	956.8	false
13C2-PFTeDA	715.0 / 670.0	4.48	78889.15	249.840450	1369.3	false
13C3-PFBS	302.0 / 99.0	1.52	29220.05	253.770812	820.7	false
13C3-PFHxS	402.0 / 99.0	2.28	27628.57	264.799686	475.4	false
13C8-PFOS	507.0 / 99.0	3.06	25867.50	219.462225	221.9	false



Sample Name	J8481-FS(0)	Injection Vial	26
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:05:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	84638.98	226.603732	1086.1	false
d3-MeFOSAA	573.0 / 419.0	3.57	14605.12	317.744410	205.7	false
d5-EtFOSAA	589.0 / 419.0	3.73	14474.67	288.435307	179.6	false
13C5-PFHxA	318.0 / 273.0	1.84	64712.68	145.720323	231.9	false
13C4-PFHpA	367.0 / 322.0	2.25	65513.49	129.669049	458.8	false
13C8-PFOA	421.0 / 376.0	2.66	51392.54	83.619150	735.5	false
13C9-PFNA	472.0 / 427.0	3.06	59513.36	84.803674	549.4	false
13C6-PFDA	519.0 / 474.0	3.41	88667.19	235.624803	861.5	false
13C7-PFUnA	570.0 / 525.0	3.73	75512.07	217.233521	636.1	false
13C2-PFTeDA	715.0 / 670.0	4.48	67966.48	225.380281	1240.8	false
13C3-PFBS	302.0 / 99.0	1.52	31907.92	396.160979	462.2	false
13C3-PFHxS	402.0 / 99.0	2.28	22933.43	314.224804	264.8	false
13C8-PFOS	507.0 / 99.0	3.06	22365.24	271.263492	255.0	false

Sample Name	J8481-FS-D(3)	Injection Vial	27
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:16:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.02	93272.16	262.759259	1195.5	false
d3-MeFOSAA	573.0 / 419.0	3.57	14473.88	264.341481	231.8	false
d5-EtFOSAA	589.0 / 419.0	3.73	17867.20	298.884872	243.2	false
13C5-PFHxA	318.0 / 273.0	1.85	61004.51	237.771504	325.4	false
13C4-PFHpA	367.0 / 322.0	2.25	74549.11	255.396648	977.3	false
13C8-PFOA	421.0 / 376.0	2.67	74238.28	209.074355	1035.0	false
13C9-PFNA	472.0 / 427.0	3.06	83287.71	205.422646	792.3	false
13C6-PFDA	519.0 / 474.0	3.41	90280.25	252.441151	1394.8	false
13C7-PFUnA	570.0 / 525.0	3.73	93390.05	282.696480	706.1	false
13C2-PFTeDA	715.0 / 670.0	4.48	71398.60	249.126637	1829.1	false
13C3-PFBS	302.0 / 99.0	1.52	35694.06	372.029032	584.7	false
13C3-PFHxS	402.0 / 99.0	2.28	23746.37	273.134390	378.2	false
13C8-PFOS	507.0 / 99.0	3.06	25831.54	263.012186	285.5	false

Sample Name	J8481-FS-D(5)	Injection Vial	28
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:27:34	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.01	98261.59	250.637856	946.4	false
d3-MeFOSAA	573.0 / 419.0	3.57	15726.32	251.949721	233.3	false
d5-EtFOSAA	589.0 / 419.0	3.73	16675.69	244.701958	203.3	false
13C5-PFHxA	318.0 / 273.0	1.84	65217.01	253.669295	658.1	false
13C4-PFHpA	367.0 / 322.0	2.25	74871.95	255.977040	1132.1	false
13C8-PFOA	421.0 / 376.0	2.66	83678.67	235.178030	1184.9	false
13C9-PFNA	472.0 / 427.0	3.06	95218.42	234.367533	102803.3	false
13C6-PFDA	519.0 / 474.0	3.41	103558.75	262.186956	1600.7	false
13C7-PFUnA	570.0 / 525.0	3.72	101782.96	278.966281	994.2	false
13C2-PFTeDA	715.0 / 670.0	4.48	77580.47	245.097998	1533.4	false
13C3-PFBS	302.0 / 99.0	1.52	33325.78	304.696497	656.3	false
13C3-PFHxS	402.0 / 99.0	2.27	26954.40	271.966237	674.4	false
13C8-PFOS	507.0 / 99.0	3.05	26929.84	240.527933	483.6	false

Sample Name	J8482-FS(0)	Injection Vial	31
Sample ID	VC-AQ-FB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:00:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.01	80438.31	225.297878	974.2	false
d3-MeFOSAA	573.0 / 419.0	3.56	14104.38	250.104344	200.7	false
d5-EtFOSAA	589.0 / 419.0	3.73	15966.85	259.330522	205.4	false
13C5-PFHxA	318.0 / 273.0	1.84	54602.04	240.701432	567.2	false
13C4-PFHpA	367.0 / 322.0	2.25	56614.77	219.368571	975.2	false
13C8-PFOA	421.0 / 376.0	2.66	80459.70	256.284984	4975.3	false
13C9-PFNA	472.0 / 427.0	3.05	72219.83	201.463227	722.1	false
13C6-PFDA	519.0 / 474.0	3.41	79340.51	220.572112	1011.1	false
13C7-PFUnA	570.0 / 525.0	3.72	81669.97	245.793492	1012.7	false
13C2-PFTeDA	715.0 / 670.0	4.47	61842.35	214.538225	1451.5	false
13C3-PFBS	302.0 / 99.0	1.52	22294.06	225.609246	460.5	false
13C3-PFHxS	402.0 / 99.0	2.28	22809.78	254.734116	576.4	false
13C8-PFOS	507.0 / 99.0	3.05	24120.42	238.449952	252.5	false

Sample Name	J8483-FS(0)	Injection Vial	32
Sample ID	VC-AQ-EB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:11:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.01	100858.32	200.750769	1275.1	false
d3-MeFOSAA	573.0 / 419.0	3.57	21138.41	260.758039	329.8	false
d5-EtFOSAA	589.0 / 419.0	3.72	19500.07	220.327444	293.6	false
13C5-PFHxA	318.0 / 273.0	1.84	61024.53	198.973394	636.5	false
13C4-PFHpA	367.0 / 322.0	2.25	69438.38	199.005488	1094.1	false
13C8-PFOA	421.0 / 376.0	2.66	96739.82	227.913898	1464.5	false
13C9-PFNA	472.0 / 427.0	3.05	93810.17	193.557493	1190.4	false
13C6-PFDA	519.0 / 474.0	3.41	106177.28	209.767636	2106.4	false
13C7-PFUnA	570.0 / 525.0	3.72	106964.98	228.770966	938.2	false
13C2-PFTeDA	715.0 / 670.0	4.47	72154.94	177.883664	1723.1	false
13C3-PFBS	302.0 / 99.0	1.52	33099.44	233.016484	600.0	false
13C3-PFHxS	402.0 / 99.0	2.28	24786.38	192.564960	360.6	false
13C8-PFOS	507.0 / 99.0	3.05	29639.40	203.835577	285.0	false

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:27:43	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8464MSD-FS-D(7)	Injection Vial	12
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:27:19	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.08	2.04e6	3888.031394	275.0	false
PFOS_2	499.0 / 99.0	3.09	3.52e5	3860.122954	549.1	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8462-FS-D(7)	Injection Vial	14
Sample ID	VC-CS12-SB02-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:59:57	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.08	1.39e6	2860.675957	198.0	false
PFOS_2	499.0 / 99.0	3.09	2.46e5	2915.117819	498.0	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true



Sample Name	J8477-FS-D(7)	Injection Vial	15
Sample ID	VC-CS10-SS03-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:10:49	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.08	1.06e6	2134.170344	203.8	false
PFOS_2	499.0 / 99.0	3.09	1.81e5	2090.120071	725.7	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8478-FS-D(7)	Injection Vial	16
Sample ID	VC-CS10-SB03-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:21:41	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.30	2.43e6	8536.353142	567.1	false
PFHxS_2	399.0 / 99.0	2.30	6.61e5	8325.616571	991.9	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.09	1.10e6	2334.808541	191.9	false
PFOS_2	499.0 / 99.0	3.08	1.93e5	2360.918834	393.2	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8479-FS-D(7)	Injection Vial	17
Sample ID	VC-CS10-SB03-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:32:32	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.30	6.16e5	1941.118180	344.9	false
PFHxS_2	399.0 / 99.0	2.30	1.77e5	1992.596818	586.5	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.01	9.46e5	1867.617538	186.5	false
PFOS_2	499.0 / 99.0	3.09	1.48e5	1685.832425	374.9	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8480-FS-D(7)	Injection Vial	18
Sample ID	VC-CS10-SS04-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:43:23	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.01	9.49e5	2225.971928	165.6	false
PFOS_2	499.0 / 99.0	3.08	1.52e5	2054.762011	328.7	false
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8481-FS-D(7)	Injection Vial	19
Sample ID	VC-CS10-SB04-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:54:14	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS 1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS 2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA 1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA 2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA 1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA 2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS 1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS 2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA 1	413.0 / 369.0	2.69	5.11e5	1659.354779	373.7	false
PFOA 2	413.0 / 169.0	2.59	2.55e4	1271.996048	199.0	false
PFNA 1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA 2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS 1	499.0 / 80.0	N/A	N/A	N/A	N/A	true
PFOS 2	499.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDA 1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA 2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA 1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA 2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA 1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA 2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA 1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA 2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA 1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA 2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA 1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA 2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA 1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA 2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8461-FS-D(7)	Injection Vial	21
Sample ID	VC-CS12-SS02-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:15:59	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.30	1364176.51	5179.649397	688.8	false
PFHxS_2	399.0 / 99.0	2.30	383438.77	5216.886350	987.2	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	3.01	1901344.51	3935.043632	188.1	false
PFOS_2	499.0 / 99.0	3.08	289496.99	3450.091532	493.8	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:27:43	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.08	83378.86	255.146181	1181.3	false
d3-MeFOSAA	573.0 / 419.0	3.64	9307.65	147.415465	160.5	false
d5-EtFOSAA	589.0 / 419.0	3.80	11069.66	160.584720	190.1	false
13C5-PFHxA	318.0 / 273.0	1.89	53978.91	265.037881	552.5	false
13C4-PFHpA	367.0 / 322.0	2.30	59454.32	256.591413	770.0	false
13C8-PFOA	421.0 / 376.0	2.72	73559.14	260.972929	2105.8	false
13C9-PFNA	472.0 / 427.0	3.12	82966.73	257.784793	1321.9	false
13C6-PFDA	519.0 / 474.0	3.48	81246.25	246.773110	673.0	false
13C7-PFUnA	570.0 / 525.0	3.80	77126.81	253.601788	7704.2	false
13C2-PFTeDA	715.0 / 670.0	4.56	68651.72	260.201077	1906.3	false
13C3-PFBS	302.0 / 99.0	1.55	22650.61	204.730817	383.7	false
13C3-PFHxS	402.0 / 99.0	2.33	20358.95	203.075227	270.2	false
13C8-PFOS	507.0 / 99.0	3.11	27967.03	246.941588	220.5	false

Sample Name	J8464MSD-FS-D(7)	Injection Vial	12
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:27:19	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.04	81600.45	181.661173	1360.1	false
d3-MeFOSAA	573.0 / 419.0	3.59	10407.93	144.384940	222.8	false
d5-EtFOSAA	589.0 / 419.0	3.76	10051.88	127.723718	176.1	false
13C5-PFHxA	318.0 / 273.0	1.86	55196.69	194.885947	664.3	false
13C4-PFHpA	367.0 / 322.0	2.27	59146.07	183.555847	663.6	false
13C8-PFOA	421.0 / 376.0	2.69	78833.61	201.119351	1244.7	false
13C9-PFNA	472.0 / 427.0	3.08	83983.57	187.642533	938.2	false
13C6-PFDA	519.0 / 474.0	3.43	85652.71	189.265764	10708.9	false
13C7-PFUnA	570.0 / 525.0	3.75	81584.52	195.160136	1072.5	false
13C2-PFTeDA	715.0 / 670.0	4.50	71944.93	198.378348	1463.9	false
13C3-PFBS	302.0 / 99.0	1.53	23632.76	187.099403	364.9	false
13C3-PFHxS	402.0 / 99.0	2.30	21572.63	188.477355	304.2	false
13C8-PFOS	507.0 / 99.0	3.08	26045.42	201.434510	241.7	false



Sample Name	J8462-FS-D(7)	Injection Vial	14
Sample ID	VC-CS12-SB02-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:59:57	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	80996.83	204.530372	1239.4	false
d3-MeFOSAA	573.0 / 419.0	3.59	9129.61	128.140140	164.8	false
d5-EtFOSAA	589.0 / 419.0	3.75	10512.19	135.142797	189.2	false
13C5-PFHxA	318.0 / 273.0	1.86	54467.55	206.147472	916.1	false
13C4-PFHpA	367.0 / 322.0	2.27	63342.14	210.720978	782.8	false
13C8-PFOA	421.0 / 376.0	2.68	79933.96	218.598149	1152.4	false
13C9-PFNA	472.0 / 427.0	3.08	84246.37	201.771985	1030.6	false
13C6-PFDA	519.0 / 474.0	3.43	85851.35	215.178217	1341.2	false
13C7-PFUnA	570.0 / 525.0	3.75	78150.96	212.049795	963.7	false
13C2-PFTeDA	715.0 / 670.0	4.49	69732.67	218.097452	1641.1	false
13C3-PFBS	302.0 / 99.0	1.53	26007.90	208.323653	336.1	false
13C3-PFHxS	402.0 / 99.0	2.30	20571.57	181.843999	339.0	false
13C8-PFOS	507.0 / 99.0	3.07	23798.20	186.218136	224.7	false

Sample Name	J8477-FS-D(7)	Injection Vial	15
Sample ID	VC-CS10-SS03-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:10:49	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	80068.44	202.912016	1126.2	false
d3-MeFOSAA	573.0 / 419.0	3.59	10758.19	167.221534	163.4	false
d5-EtFOSAA	589.0 / 419.0	3.75	12151.18	172.996925	283.3	false
13C5-PFHxA	318.0 / 273.0	1.86	56104.76	228.602451	675.2	false
13C4-PFHpA	367.0 / 322.0	2.27	59449.85	212.915293	524.8	false
13C8-PFOA	421.0 / 376.0	2.68	72880.91	214.570475	9612.8	false
13C9-PFNA	472.0 / 427.0	3.07	81659.09	210.549994	1022.7	false
13C6-PFDA	519.0 / 474.0	3.43	81365.02	204.665929	1236.5	false
13C7-PFUnA	570.0 / 525.0	3.75	80411.15	218.965889	766.7	false
13C2-PFTeDA	715.0 / 670.0	4.49	73018.09	229.193022	2063.9	false
13C3-PFBS	302.0 / 99.0	1.53	24183.07	214.518509	318.5	false
13C3-PFHxS	402.0 / 99.0	2.29	22710.81	222.322926	263.0	false
13C8-PFOS	507.0 / 99.0	3.07	24175.07	209.491152	218.6	false

Sample Name	J8478-FS-D(7)	Injection Vial	16
Sample ID	VC-CS10-SB03-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:21:41	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	84777.44	220.169555	865.7	false
d3-MeFOSAA	573.0 / 419.0	3.59	9792.16	145.530431	168.9	false
d5-EtFOSAA	589.0 / 419.0	3.75	11884.74	161.782616	223.9	false
13C5-PFHxA	318.0 / 273.0	1.86	53650.43	203.985632	620.0	false
13C4-PFHpA	367.0 / 322.0	2.27	60911.87	203.565039	706.0	false
13C8-PFOA	421.0 / 376.0	2.68	76419.33	209.944532	1543.4	false
13C9-PFNA	472.0 / 427.0	3.08	76724.52	184.599292	2246.0	false
13C6-PFDA	519.0 / 474.0	3.43	86218.18	222.247663	2248.5	false
13C7-PFUnA	570.0 / 525.0	3.75	70816.72	197.618013	683.9	false
13C2-PFTeDA	715.0 / 670.0	4.49	70023.81	225.240860	2428.1	false
13C3-PFBS	302.0 / 99.0	1.53	24686.83	209.382765	329.5	false
13C3-PFHxS	402.0 / 99.0	2.30	19774.98	185.093001	268.7	false
13C8-PFOS	507.0 / 99.0	3.07	23359.18	193.543207	249.3	false

Sample Name	J8479-FS-D(7)	Injection Vial	17
Sample ID	VC-CS10-SB03-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:32:32	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	87989.24	212.576142	3720.5	false
d3-MeFOSAA	573.0 / 419.0	3.59	10474.10	137.952807	190.9	false
d5-EtFOSAA	589.0 / 419.0	3.75	13228.93	159.589830	205.8	false
13C5-PFHxA	318.0 / 273.0	1.86	56478.04	199.265991	512.9	false
13C4-PFHpA	367.0 / 322.0	2.27	68493.28	212.410733	881.8	false
13C8-PFOA	421.0 / 376.0	2.68	85625.08	218.287851	1645.8	false
13C9-PFNA	472.0 / 427.0	3.08	84291.14	188.193676	1552.3	false
13C6-PFDA	519.0 / 474.0	3.43	89295.38	214.128939	871.5	false
13C7-PFUnA	570.0 / 525.0	3.74	86260.22	223.928463	876.3	false
13C2-PFTeDA	715.0 / 670.0	4.49	74876.57	224.055404	1635.4	false
13C3-PFBS	302.0 / 99.0	1.53	26361.12	198.142643	292.4	false
13C3-PFHxS	402.0 / 99.0	2.29	21956.73	182.129423	273.2	false
13C8-PFOS	507.0 / 99.0	3.07	25120.64	184.454557	263.5	false

Sample Name	J8480-FS-D(7)	Injection Vial	18
Sample ID	VC-CS10-SS04-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:43:23	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	71893.76	198.344156	1103.2	false
d3-MeFOSAA	573.0 / 419.0	3.59	11323.71	184.060146	197.7	false
d5-EtFOSAA	589.0 / 419.0	3.75	10235.61	152.388454	183.0	false
13C5-PFHxA	318.0 / 273.0	1.86	47562.67	212.217914	489.4	false
13C4-PFHpA	367.0 / 322.0	2.27	54081.13	212.097960	760.4	false
13C8-PFOA	421.0 / 376.0	2.68	68054.96	219.407082	1455.2	false
13C9-PFNA	472.0 / 427.0	3.07	69689.62	196.767543	1844.7	false
13C6-PFDA	519.0 / 474.0	3.43	75324.67	206.265612	1877.3	false
13C7-PFUnA	570.0 / 525.0	3.74	70772.47	209.800420	732.4	false
13C2-PFTeDA	715.0 / 670.0	4.49	64129.46	219.134245	1474.4	false
13C3-PFBS	302.0 / 99.0	1.53	22372.67	207.534082	255.1	false
13C3-PFHxS	402.0 / 99.0	2.29	19320.13	197.778942	267.4	false
13C8-PFOS	507.0 / 99.0	3.07	21391.68	193.847895	213.1	false

Sample Name	J8481-FS-D(7)	Injection Vial	19
Sample ID	VC-CS10-SB04-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:54:14	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	80975.39	203.134654	1044.4	false
d3-MeFOSAA	573.0 / 419.0	3.59	10871.90	166.790371	187.5	false
d5-EtFOSAA	589.0 / 419.0	3.74	11784.17	165.589063	171.7	false
13C5-PFHxA	318.0 / 273.0	1.86	54868.74	208.448206	500.7	false
13C4-PFHpA	367.0 / 322.0	2.27	64374.84	214.963267	723.8	false
13C8-PFOA	421.0 / 376.0	2.68	76020.03	208.677787	1661.3	false
13C9-PFNA	472.0 / 427.0	3.07	77203.36	185.600406	1610.9	false
13C6-PFDA	519.0 / 474.0	3.43	79470.37	197.878054	777.8	false
13C7-PFUnA	570.0 / 525.0	3.74	75094.20	202.418946	630.2	false
13C2-PFTeDA	715.0 / 670.0	4.49	69606.07	216.273167	1287.8	false
13C3-PFBS	302.0 / 99.0	1.53	25508.44	223.331585	309.2	false
13C3-PFHxS	402.0 / 99.0	2.29	22800.83	220.300296	281.6	false
13C8-PFOS	507.0 / 99.0	3.07	23328.44	199.524630	241.8	false

Sample Name	J8461-FS-D(7)	Injection Vial	21
Sample ID	VC-CS12-SS02-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:15:59	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	83377.86	208.924258	1516.7	false
d3-MeFOSAA	573.0 / 419.0	3.58	12195.00	181.826286	169.2	false
d5-EtFOSAA	589.0 / 419.0	3.74	11978.13	163.580286	216.7	false
13C5-PFHxA	318.0 / 273.0	1.85	50245.54	205.111595	594.2	false
13C4-PFHpA	367.0 / 322.0	2.26	60161.14	215.865693	798.4	false
13C8-PFOA	421.0 / 376.0	2.68	73950.79	218.127534	1138.0	false
13C9-PFNA	472.0 / 427.0	3.07	73838.48	190.741395	975.0	false
13C6-PFDA	519.0 / 474.0	3.42	79293.04	197.212586	1264.3	false
13C7-PFUnA	570.0 / 525.0	3.74	74872.77	201.593167	836.3	false
13C2-PFTeDA	715.0 / 670.0	4.49	67118.07	208.306164	1359.4	false
13C3-PFBS	302.0 / 99.0	1.53	22476.94	191.254872	327.7	false
13C3-PFHxS	402.0 / 99.0	2.29	18698.53	175.582422	256.9	false
13C8-PFOS	507.0 / 99.0	3.07	24066.03	200.043439	241.7	false

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:53:06	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	1.56	2016.85	0.448002	14.4	true
PFBS_2	298.9 / 99.0	1.55	703.61	3.427682	14.7	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true
PFBA	213.0 / 169.0	N/A	N/A	N/A	N/A	true
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	true
PFHpS_1	449.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHpS_2	449.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDS_1	599.0 / 80.0	N/A	N/A	N/A	N/A	true
PFDS_2	599.0 / 99.0	N/A	N/A	N/A	N/A	true
4:2FTS_1	327.0 / 307.0	N/A	N/A	N/A	N/A	true
4:2FTS_2	327.0 / 80.0	N/A	N/A	N/A	N/A	true
6:2FTS_1	427.0 / 407.0	N/A	N/A	N/A	N/A	true
6:2FTS_2	427.0 / 81.0	N/A	N/A	N/A	N/A	true
8:2FTS_1	527.0 / 507.0	N/A	N/A	N/A	N/A	true
8:2FTS_2	527.0 / 487.0	N/A	N/A	N/A	N/A	true
PFPeS_1	349.0 / 99.0	N/A	N/A	N/A	N/A	true
PFPeS_2	349.0 / 80.0	N/A	N/A	N/A	N/A	true
PFNS_1	549.0 / 99.0	N/A	N/A	N/A	N/A	true
PFNS_2	549.0 / 80.0	N/A	N/A	N/A	N/A	true



Sample Name	J8460-FS-D(9)	Injection Vial	4
Sample ID		Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T19:14:54	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.32	1495259.49	4377.810781	686.0	false
PFHxS_2	399.0 / 99.0	2.32	428541.36	4495.622142	1118.0	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true
PFBA	213.0 / 169.0	N/A	N/A	N/A	N/A	true
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	true
PFHpS_1	449.0 / 80.0	N/A	N/A	N/A	N/A	true
PFHpS_2	449.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDS_1	599.0 / 80.0	N/A	N/A	N/A	N/A	true
PFDS_2	599.0 / 99.0	N/A	N/A	N/A	N/A	true
4:2FTS_1	327.0 / 307.0	N/A	N/A	N/A	N/A	true
4:2FTS_2	327.0 / 80.0	N/A	N/A	N/A	N/A	true
6:2FTS_1	427.0 / 407.0	N/A	N/A	N/A	N/A	true
6:2FTS_2	427.0 / 81.0	N/A	N/A	N/A	N/A	true
8:2FTS_1	527.0 / 507.0	N/A	N/A	N/A	N/A	true
8:2FTS_2	527.0 / 487.0	N/A	N/A	N/A	N/A	true
PFPeS_1	349.0 / 99.0	N/A	N/A	N/A	N/A	true
PFPeS_2	349.0 / 80.0	N/A	N/A	N/A	N/A	true
PFNS_1	549.0 / 99.0	N/A	N/A	N/A	N/A	true
PFNS_2	549.0 / 80.0	N/A	N/A	N/A	N/A	true

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:53:06	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	1.16	75498.27	230.985782	1392.7	false
13C2-PFDoA	615.0 / 570.0	4.07	91279.74	252.533244	842.5	false
d3-MeFOSAA	573.0 / 419.0	3.62	15152.31	224.470667	194.8	false
d5-EtFOSAA	589.0 / 419.0	3.78	13508.86	183.301666	186.9	false
13C5-PFPeA	268.0 / 223.0	1.48	70342.43	241.829758	630.7	false
13C5-PFHxA	318.0 / 273.0	1.87	57267.01	285.821061	554.0	false
13C4-PFHpA	367.0 / 322.0	2.29	69120.99	303.231680	697.9	false
13C8-PFOA	421.0 / 376.0	2.70	79590.53	287.029231	1028.9	false
13C9-PFNA	472.0 / 427.0	3.10	86285.66	272.519690	11478.7	false
13C6-PFDA	519.0 / 474.0	3.46	84505.89	232.055845	5443.3	false
13C7-PFUnA	570.0 / 525.0	3.78	80716.26	239.949017	689.9	false
13C2-PFTeDA	715.0 / 670.0	4.54	78724.63	269.761081	2336.4	false
13C3-PFBS	302.0 / 99.0	1.54	26782.63	226.430326	384.5	false
13C3-PFHxS	402.0 / 99.0	2.31	22934.00	213.973172	383.4	false
13C8-PFOS	507.0 / 99.0	3.10	24746.12	204.377447	213.4	false
13C2-4:2FTS	329.0 / 81.0	1.82	7266.09	259.736617	44.1	true
13C2-6:2FTS	429.0 / 81.0	2.67	12827.09	214.107393	112.1	false
13C2-8:2FTS	529.0 / 81.0	3.45	13809.10	203.027646	82.7	false

Sample Name	J8460-FS-D(9)	Injection Vial	4
Sample ID	VC-CS12-SB01-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T19:14:54	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C4-PFBA	217.0 / 172.0	N/A	N/A	N/A	N/A	true
13C2-PFDoA	615.0 / 570.0	4.06	101888.11	291.357747	1056.3	false
d3-MeFOSAA	573.0 / 419.0	3.61	16352.83	268.650538	211.0	false
d5-EtFOSAA	589.0 / 419.0	3.77	16019.20	241.047451	225.4	false
13C5-PFPeA	268.0 / 223.0	1.48	74171.17	248.568699	535.0	false
13C5-PFHxA	318.0 / 273.0	1.87	62493.86	268.070475	738.3	false
13C4-PFHpA	367.0 / 322.0	2.28	70005.17	263.946939	701.4	false
13C8-PFOA	421.0 / 376.0	2.70	85550.58	265.160953	2578.0	false
13C9-PFNA	472.0 / 427.0	3.09	97318.43	264.165583	1312.7	false
13C6-PFDA	519.0 / 474.0	3.45	91342.98	259.262473	1347.0	false
13C7-PFUnA	570.0 / 525.0	3.77	86562.80	265.979512	870.9	false
13C2-PFTeDA	715.0 / 670.0	4.52	88387.86	313.054703	1542.8	false
13C3-PFBS	302.0 / 99.0	1.53	28318.52	265.500849	388.0	false
13C3-PFHxS	402.0 / 99.0	2.31	23846.87	246.731688	271.7	false
13C8-PFOS	507.0 / 99.0	3.09	27112.88	248.322233	253.4	false
13C2-4:2FTS	329.0 / 81.0	N/A	N/A	N/A	N/A	true
13C2-6:2FTS	429.0 / 81.0	N/A	N/A	N/A	N/A	true
13C2-8:2FTS	529.0 / 81.0	N/A	N/A	N/A	N/A	true

<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	9
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:02:57	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.57	PFBS			
PFBS_2	298.9 / 99.0	1.57	PFBS	0.410	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	3.11	PFNA			
PFNA_2	463.0 / 219.0	3.11	PFNA	0.280	0.306	ü
PFOS_1	499.0 / 80.0	3.10	PFOS			
PFOS_2	499.0 / 99.0	3.11	PFOS	0.210	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	4.08	PFDoA			
PFDoA_2	613.0 / 319.0	4.08	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.32	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.34	PFTTrDA	0.080	0.066	ü
PFTeDA_1	713.0 / 669.0	4.54	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.54	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.63	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.61	NMeFOSAA	0.510	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	CR900PB-FS(0)	<b>Injection Vial</b>	31
<b>Sample ID</b>	Procedural Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:12:51	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.350	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.250	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.250	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	CR901LCS-FS(0)	<b>Injection Vial</b>	32
<b>Sample ID</b>	Laboratory Control Sample	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:23:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.55	PFBS			
PFBS_2	298.9 / 99.0	1.55	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.87	PFHxA			
PFHxA_2	313.0 / 119.0	1.87	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	3.44	PFDA			
PFDA_2	513.0 / 219.0	3.44	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.76	PFUnA			
PFUnA_2	563.0 / 269.0	3.76	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.04	PFDoA			
PFDoA_2	613.0 / 319.0	4.04	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.29	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.29	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.50	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.50	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.59	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.59	NMeFOSAA	0.570	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.76	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.75	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	J8455-FS(0)	<b>Injection Vial</b>	33
<b>Sample ID</b>	VC-SO-FB07-09262018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:34:36	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.380	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.10	PFNA	0.240	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.29	PFTTrDA	0.150	0.066	
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8456-FS(0)	<b>Injection Vial</b>	34
<b>Sample ID</b>	VC-SO-EB07-09262018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:45:28	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.55	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.310	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.29	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.29	PFTTrDA	0.100	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü



<b>Sample Name</b>	J8457-FS(0)	<b>Injection Vial</b>	35
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:56:20	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.400	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.150	0.077	
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.24	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.800	0.282	
PFOA_1	413.0 / 369.0	2.66	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.080	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.330	0.306	ü
PFOS_1	499.0 / 80.0	2.99	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.360	0.174	
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.050	0.041	ü
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	3.73	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.29	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.29	PFTTrDA	0.080	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8457-FS-D(3)	<b>Injection Vial</b>	36
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:07:11	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.310	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.300	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8457-FS-D(5)	<b>Injection Vial</b>	37
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:18:02	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8457-FS-D(7)	<b>Injection Vial</b>	38
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:28:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8458-FS(0)	<b>Injection Vial</b>	41
<b>Sample ID</b>	VC-MS09-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:01:33	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.330	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.85	PFHxA	0.090	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.25	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.27	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.510	0.282	
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.320	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.220	0.174	ü
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.020	0.041	
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.29	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8458-FS-D(3)	<b>Injection Vial</b>	42
<b>Sample ID</b>	VC-MS09-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:12:26	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8458-FS-D(5)	<b>Injection Vial</b>	43
<b>Sample ID</b>	VC-MS09-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:23:17	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8459-FS(0)	<b>Injection Vial</b>	44
<b>Sample ID</b>	VC-MS09-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:34:08	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.440	0.292	
PFHxA_1	313.0 / 269.0	1.84	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.190	0.077	
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.22	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.25	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.600	0.282	
PFOA_1	413.0 / 369.0	2.64	PFOA			
PFOA_2	413.0 / 169.0	2.68	PFOA	0.100	0.065	
PFNA_1	463.0 / 419.0	3.03	PFNA			
PFNA_2	463.0 / 219.0	3.03	PFNA	0.340	0.306	ü
PFOS_1	499.0 / 80.0	2.97	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.140	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	3.71	PFUnA	0.230	0.049	
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.27	PFTTrDA	0.140	0.066	
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü



<b>Sample Name</b>	J8459-FS-D(3)	<b>Injection Vial</b>	45
<b>Sample ID</b>	VC-MS09-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:44:59	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.310	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.25	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	2.97	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.140	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8459-FS-D(5)	<b>Injection Vial</b>	46
<b>Sample ID</b>	VC-MS09-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:55:51	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.040	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	N/A	PFOS			
PFOS_2	499.0 / 99.0	N/A	PFOS	N/A	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8460-FS(0)	<b>Injection Vial</b>	47
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:06:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.340	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.100	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.24	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.22	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	1.020	0.282	
PFOA_1	413.0 / 369.0	2.66	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.090	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.340	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.270	0.174	
PFDA_1	513.0 / 469.0	3.38	PFDA			
PFDA_2	513.0 / 219.0	3.40	PFDA	0.020	0.041	
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.27	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.32	PFTTrDA	0.200	0.066	
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8460-FS-D(3)	<b>Injection Vial</b>	48
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:17:36	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.300	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.150	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8460-FS-D(5)	<b>Injection Vial</b>	49
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:28:28	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.150	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8461-FS(0)	<b>Injection Vial</b>	52
<b>Sample ID</b>	VC-MS09-DW04P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:01:04	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.330	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.110	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.24	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.25	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.620	0.282	
PFOA_1	413.0 / 369.0	2.66	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.100	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.320	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.270	0.174	
PFDA_1	513.0 / 469.0	3.39	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.020	0.041	
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.25	PFTTrDA	0.130	0.066	
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8461-FS-D(3)	<b>Injection Vial</b>	53
<b>Sample ID</b>	VC-MS09-DW04P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:11:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.25	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.150	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8461-FS-D(5)	<b>Injection Vial</b>	54
<b>Sample ID</b>	VC-MS09-DW04P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:22:47	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü



<b>Sample Name</b>	J8462-FS(0)	<b>Injection Vial</b>	1
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:33:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.28	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.500	0.282	
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.300	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.350	0.174	
PFDA_1	513.0 / 469.0	3.42	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.030	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	4.21	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.33	PFTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8462-FS-D(3)	<b>Injection Vial</b>	2
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:44:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.05	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8462-FS-D(5)	<b>Injection Vial</b>	3
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:55:26	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8463MS-FS(0)	<b>Injection Vial</b>	4
<b>Sample ID</b>	VC-MS09-DW05-0918-MS	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:06:18	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.27	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.390	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.08	PFNA	0.300	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.240	0.174	ü
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	3.75	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.04	PFDoA			
PFDoA_2	613.0 / 319.0	4.04	PFDoA	0.160	0.160	ü
PFTrDA_1	663.0 / 619.0	4.28	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.28	PFTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	4.49	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.49	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.59	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.59	NMeFOSAA	0.580	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.75	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.75	NEtFOSAA	0.070	0.062	ü

<b>Sample Name</b>	J8463MS-FS-D(3)	<b>Injection Vial</b>	5
<b>Sample ID</b>	VC-MS09-DW05-0918-MS	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:17:11	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8463MS-FS-D(5)	<b>Injection Vial</b>	6
<b>Sample ID</b>	VC-MS09-DW05-0918-MS	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:28:05	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8464MSD-FS(0)	<b>Injection Vial</b>	9
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:00:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.85	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.420	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.08	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.310	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.270	0.174	
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.43	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	3.75	PFUnA	0.050	0.049	ü
PFDoA_1	613.0 / 569.0	4.03	PFDoA			
PFDoA_2	613.0 / 319.0	4.03	PFDoA	0.160	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.27	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.27	PFTTrDA	0.070	0.066	ü
PFTeDA_1	713.0 / 669.0	4.49	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.49	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.58	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.58	NMeFOSAA	0.500	0.551	ü
NEtFOSAA_1	584.0 / 419.0	3.74	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.74	NEtFOSAA	0.060	0.062	ü

<b>Sample Name</b>	J8464MSD-FS-D(3)	<b>Injection Vial</b>	10
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:11:37	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.05	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü



<b>Sample Name</b>	J8464MSD-FS-D(5)	<b>Injection Vial</b>	11
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:22:30	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8477-FS(0)	<b>Injection Vial</b>	12
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:33:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.85	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.25	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.27	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.570	0.282	
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.090	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.350	0.306	ü
PFOS_1	499.0 / 80.0	2.99	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.330	0.174	
PFDA_1	513.0 / 469.0	3.42	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.030	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.25	PFTTrDA	0.060	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.53	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.58	NMeFOSAA	0.000	0.551	
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8477-FS-D(3)	<b>Injection Vial</b>	13
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:44:17	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.26	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.310	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.04	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8477-FS-D(5)	<b>Injection Vial</b>	14
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:55:10	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.07	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8478-FS(0)	<b>Injection Vial</b>	15
<b>Sample ID</b>	VC-PM367-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:06:03	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.310	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.140	0.077	
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.23	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.24	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.620	0.282	
PFOA_1	413.0 / 369.0	2.65	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.090	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.390	0.306	ü
PFOS_1	499.0 / 80.0	3.03	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.200	0.174	ü
PFDA_1	513.0 / 469.0	3.43	PFDA			
PFDA_2	513.0 / 219.0	3.41	PFDA	0.030	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.23	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.21	PFTTrDA	0.270	0.066	
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8478-FS-D(3)	<b>Injection Vial</b>	16
<b>Sample ID</b>	VC-PM367-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:16:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.86	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	2.27	PFHpA			
PFHpA_2	363.0 / 169.0	2.25	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.310	0.282	ü
PFOA_1	413.0 / 369.0	2.68	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8478-FS-D(5)	<b>Injection Vial</b>	17
<b>Sample ID</b>	VC-PM367-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:27:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	1
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	N/A	PFOS			
PFOS_2	499.0 / 99.0	N/A	PFOS	N/A	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8479-FS(0)	<b>Injection Vial</b>	20
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:00:25	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.340	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.85	PFHxA	0.100	0.077	ü
PFHpA_1	363.0 / 319.0	2.25	PFHpA			
PFHpA_2	363.0 / 169.0	2.22	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.25	PFHxS			
PFHxS_2	399.0 / 99.0	2.28	PFHxS	0.560	0.282	
PFOA_1	413.0 / 369.0	2.64	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.110	0.065	
PFNA_1	463.0 / 419.0	3.05	PFNA			
PFNA_2	463.0 / 219.0	2.98	PFNA	0.420	0.306	ü
PFOS_1	499.0 / 80.0	2.99	PFOS			
PFOS_2	499.0 / 99.0	3.06	PFOS	0.250	0.174	ü
PFDA_1	513.0 / 469.0	3.41	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.020	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.26	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.27	PFTTrDA	0.110	0.066	
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü



<b>Sample Name</b>	J8479-FS-D(3)	<b>Injection Vial</b>	21
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:11:19	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.290	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.24	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.310	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	2.99	PFOS			
PFOS_2	499.0 / 99.0	3.06	PFOS	0.150	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8479-FS-D(5)	<b>Injection Vial</b>	22
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:22:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	2.99	PFOS			
PFOS_2	499.0 / 99.0	3.06	PFOS	0.150	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8480-FS(0)	<b>Injection Vial</b>	23
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:33:08	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.330	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.110	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.23	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.26	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.580	0.282	
PFOA_1	413.0 / 369.0	2.65	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.120	0.065	
PFNA_1	463.0 / 419.0	3.05	PFNA			
PFNA_2	463.0 / 219.0	2.99	PFNA	0.430	0.306	ü
PFOS_1	499.0 / 80.0	2.99	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.290	0.174	
PFDA_1	513.0 / 469.0	3.41	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.010	0.041	
PFUnA_1	563.0 / 519.0	3.75	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	4.28	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.27	PFTTrDA	0.090	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8480-FS-D(3)	<b>Injection Vial</b>	24
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:44:00	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.310	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.24	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.310	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	2.99	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.150	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8480-FS-D(5)	<b>Injection Vial</b>	25
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:54:54	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.00	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.150	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8481-FS(0)	<b>Injection Vial</b>	26
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:05:48	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	PFBS			
PFBS_2	298.9 / 99.0	1.53	PFBS	0.310	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.080	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.24	PFHpA	0.020	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.420	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.070	0.065	ü
PFNA_1	463.0 / 419.0	3.07	PFNA			
PFNA_2	463.0 / 219.0	3.07	PFNA	0.350	0.306	ü
PFOS_1	499.0 / 80.0	3.02	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	3.42	PFDA			
PFDA_2	513.0 / 219.0	3.42	PFDA	0.020	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8481-FS-D(3)	<b>Injection Vial</b>	27
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:16:41	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	PFBS			
PFBS_2	298.9 / 99.0	1.54	PFBS	0.300	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.86	PFHxA	0.070	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.25	PFHpA	0.030	0.025	ü
PFHxS_1	399.0 / 80.0	2.29	PFHxS			
PFHxS_2	399.0 / 99.0	2.29	PFHxS	0.310	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8481-FS-D(5)	<b>Injection Vial</b>	28
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:27:34	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	1.85	PFHxA			
PFHxA_2	313.0 / 119.0	1.85	PFHxA	0.060	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.28	PFHxS			
PFHxS_2	399.0 / 99.0	2.28	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.66	PFOA	0.050	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü



<b>Sample Name</b>	J8482-FS(0)	<b>Injection Vial</b>	31
<b>Sample ID</b>	VC-AQ-FB08-09272018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:00:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.55	PFBS			
PFBS_2	298.9 / 99.0	1.55	PFBS	0.410	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.240	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.060	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.02	PFOS			
PFOS_2	499.0 / 99.0	3.07	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8483-FS(0)	<b>Injection Vial</b>	32
<b>Sample ID</b>	VC-AQ-EB08-09272018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:11:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	PFBS			
PFBS_2	298.9 / 99.0	1.82	PFBS	0.380	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	2.26	PFHpA			
PFHpA_2	363.0 / 169.0	2.19	PFHpA	0.040	0.025	ü
PFHxS_1	399.0 / 80.0	2.28	PFHxS			
PFHxS_2	399.0 / 99.0	2.28	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	2.67	PFOA			
PFOA_2	413.0 / 169.0	2.67	PFOA	0.080	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.06	PFOS			
PFOS_2	499.0 / 99.0	3.06	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDoA_1	613.0 / 569.0	N/A	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	PFDoA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	2
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T18:27:43	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	N/A	PFOS			
PFOS_2	499.0 / 99.0	N/A	PFOS	N/A	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8464MSD-FS-D(7)	<b>Injection Vial</b>	12
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T20:27:19	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.09	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8462-FS-D(7)	<b>Injection Vial</b>	14
<b>Sample ID</b>	VC-CS12-SB02-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T20:59:57	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.09	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8477-FS-D(7)	<b>Injection Vial</b>	15
<b>Sample ID</b>	VC-CS10-SS03-000H	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:10:49	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.08	PFOS			
PFOS_2	499.0 / 99.0	3.09	PFOS	0.170	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8478-FS-D(7)	<b>Injection Vial</b>	16
<b>Sample ID</b>	VC-CS10-SB03-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:21:41	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.270	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.09	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.180	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

Sample Name	J8479-FS-D(7)	Injection Vial	17
Sample ID	VC-CS10-SB03-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:32:32	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.01	PFOS			
PFOS_2	499.0 / 99.0	3.09	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü



<b>Sample Name</b>	J8480-FS-D(7)	<b>Injection Vial</b>	18
<b>Sample ID</b>	VC-CS10-SS04-000H	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:43:23	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.01	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.160	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8481-FS-D(7)	<b>Injection Vial</b>	19
<b>Sample ID</b>	VC-CS10-SB04-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:54:14	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	N/A	PFOS			
PFOS_2	499.0 / 99.0	N/A	PFOS	N/A	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	J8461-FS-D(7)	<b>Injection Vial</b>	21
<b>Sample ID</b>	VC-CS12-SS02-000H	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T22:15:59	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.025	ü
PFHxS_1	399.0 / 80.0	2.30	PFHxS			
PFHxS_2	399.0 / 99.0	2.30	PFHxS	0.280	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	3.01	PFOS			
PFOS_2	499.0 / 99.0	3.08	PFOS	0.110	0.174	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.049	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTrDA_1	663.0 / 619.0	N/A	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	PFTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.062	ü

<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	2
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T18:53:06	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

### Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.56	PFBS			
PFBS_2	298.9 / 99.0	1.55	PFBS	0.350	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.023	ü
PFHxS_1	399.0 / 80.0	N/A	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	PFHxS	N/A	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	N/A	PFOS			
PFOS_2	499.0 / 99.0	N/A	PFOS	N/A	0.175	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.052	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.064	ü
PFBA	213.0 / 169.0	N/A				
PFPeA	263.0 / 219.0	N/A		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	N/A	PFHpS			
PFHpS_2	449.0 / 99.0	N/A	PFHpS	N/A	0.262	ü
PFDS_1	599.0 / 80.0	N/A	PFDS			
PFDS_2	599.0 / 99.0	N/A	PFDS	N/A	0.233	ü
4:2FTS_1	327.0 / 307.0	N/A	4:2FTS			
4:2FTS_2	327.0 / 80.0	N/A	4:2FTS	N/A	0.263	ü
6:2FTS_1	427.0 / 407.0	N/A	6:2FTS			
6:2FTS_2	427.0 / 81.0	N/A	6:2FTS	N/A	0.233	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
8:2FTS_1	527.0 / 507.0	N/A	8:2FTS			
8:2FTS_2	527.0 / 487.0	N/A	8:2FTS	N/A	0.106	ü
PFPeS_1	349.0 / 99.0	N/A	PFPeS			
PFPeS_2	349.0 / 80.0	N/A	PFPeS	N/A	2.584	ü
PFNS_1	549.0 / 99.0	N/A	PFNS			
PFNS_2	549.0 / 80.0	N/A	PFNS	N/A	5.131	ü

<b>Sample Name</b>	J8460-FS-D(9)	<b>Injection Vial</b>	4
<b>Sample ID</b>		<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T19:14:54	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Results Summary

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	PFBS			
PFBS_2	298.9 / 99.0	N/A	PFBS	N/A	0.292	ü
PFHxA_1	313.0 / 269.0	N/A	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	PFHxA	N/A	0.077	ü
PFHpA_1	363.0 / 319.0	N/A	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	PFHpA	N/A	0.023	ü
PFHxS_1	399.0 / 80.0	2.32	PFHxS			
PFHxS_2	399.0 / 99.0	2.32	PFHxS	0.290	0.282	ü
PFOA_1	413.0 / 369.0	N/A	PFOA			
PFOA_2	413.0 / 169.0	N/A	PFOA	N/A	0.065	ü
PFNA_1	463.0 / 419.0	N/A	PFNA			
PFNA_2	463.0 / 219.0	N/A	PFNA	N/A	0.306	ü
PFOS_1	499.0 / 80.0	N/A	PFOS			
PFOS_2	499.0 / 99.0	N/A	PFOS	N/A	0.175	ü
PFDA_1	513.0 / 469.0	N/A	PFDA			
PFDA_2	513.0 / 219.0	N/A	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	PFUnA	N/A	0.052	ü
PFDaA_1	613.0 / 569.0	N/A	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	PFDaA	N/A	0.160	ü
PFTTrDA_1	663.0 / 619.0	N/A	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	PFTTrDA	N/A	0.066	ü
PFTeDA_1	713.0 / 669.0	N/A	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	NMeFOSAA	N/A	0.551	ü
NEtFOSAA_1	584.0 / 419.0	N/A	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	NEtFOSAA	N/A	0.064	ü
PFBA	213.0 / 169.0	N/A				
PFPeA	263.0 / 219.0	N/A		N/A	N/A	ü
PFHpS_1	449.0 / 80.0	N/A	PFHpS			
PFHpS_2	449.0 / 99.0	N/A	PFHpS	N/A	0.262	ü
PFDS_1	599.0 / 80.0	N/A	PFDS			
PFDS_2	599.0 / 99.0	N/A	PFDS	N/A	0.233	ü
4:2FTS_1	327.0 / 307.0	N/A	4:2FTS			
4:2FTS_2	327.0 / 80.0	N/A	4:2FTS	N/A	0.263	ü
6:2FTS_1	427.0 / 407.0	N/A	6:2FTS			
6:2FTS_2	427.0 / 81.0	N/A	6:2FTS	N/A	0.233	ü

Analyte	MRM Transition	RT	Ratio Group	Calculated Ion ratio	Expected Ion Ratio	Ratio OK
8:2FTS_1	527.0 / 507.0	N/A	8:2FTS			
8:2FTS_2	527.0 / 487.0	N/A	8:2FTS	N/A	0.106	ü
PFPeS_1	349.0 / 99.0	N/A	PFPeS			
PFPeS_2	349.0 / 80.0	N/A	PFPeS	N/A	2.584	ü
PFNS_1	549.0 / 99.0	N/A	PFNS			
PFNS_2	549.0 / 80.0	N/A	PFNS	N/A	5.131	ü

Sample Name	KB80 IB	Injection Vial	9
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:02:57	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.57	13C3-PFBS	302.0 / 99.0	25201.92	232.25
PFBS_2	298.9 / 99.0	1.57	13C3-PFBS	302.0 / 99.0	25201.92	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	61987.66	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	61987.66	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	70438.43	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	70438.43	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	24683.15	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	24683.15	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	88535.23	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	88535.23	250.00
PFNA_1	463.0 / 419.0	3.11	13C9-PFNA	472.0 / 427.0	100138.19	250.00
PFNA_2	463.0 / 219.0	3.11	13C9-PFNA	472.0 / 427.0	100138.19	250.00
PFOS_1	499.0 / 80.0	3.10	13C8-PFOS	507.0 / 99.0	26769.68	239.25
PFOS_2	499.0 / 99.0	3.11	13C8-PFOS	507.0 / 99.0	26769.68	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	97258.51	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	97258.51	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	88898.52	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	88898.52	250.00
PFDoA_1	613.0 / 569.0	4.08	13C2-PFDoA	615.0 / 570.0	91698.47	250.00
PFDoA_2	613.0 / 319.0	4.08	13C2-PFDoA	615.0 / 570.0	91698.47	250.00
PFTeDA_1	663.0 / 619.0	4.32	13C2-PFTeDA	715.0 / 670.0	70451.22	250.00
PFTeDA_2	663.0 / 169.0	4.34	13C2-PFTeDA	715.0 / 670.0	70451.22	250.00
PFTeDA_1	713.0 / 669.0	4.54	13C2-PFTeDA	715.0 / 670.0	70451.22	250.00
PFTeDA_2	713.0 / 169.0	4.54	13C2-PFTeDA	715.0 / 670.0	70451.22	250.00
NMeFOSAA_1	570.0 / 419.0	3.63	d3-MeFOSAA	573.0 / 419.0	16454.46	250.00
NMeFOSAA_2	570.0 / 512.0	3.61	d3-MeFOSAA	573.0 / 419.0	16454.46	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17612.55	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17612.55	250.00



Sample Name	CR900PB-FS(0)	Injection Vial	31
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:12:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	25913.47	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	25913.47	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	58530.05	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	58530.05	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	64821.70	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	64821.70	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	23470.70	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	23470.70	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	82880.93	250.00
PFOA_2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	82880.93	250.00
PFNA_1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	88246.00	250.00
PFNA_2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	88246.00	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	27774.95	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	27774.95	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	93635.89	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	93635.89	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	91696.18	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	91696.18	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	77697.95	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	77697.95	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	69824.84	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	69824.84	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	69824.84	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	69824.84	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15381.42	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15381.42	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	14862.48	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	14862.48	250.00

Sample Name	CR901LCS-FS(0)	Injection Vial	32
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:23:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.55	13C3-PFBS	302.0 / 99.0	26107.79	232.25
PFBS_2	298.9 / 99.0	1.55	13C3-PFBS	302.0 / 99.0	26107.79	232.25
PFHxA_1	313.0 / 269.0	1.87	13C5-PFHxA	318.0 / 273.0	55449.69	250.00
PFHxA_2	313.0 / 119.0	1.87	13C5-PFHxA	318.0 / 273.0	55449.69	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	57164.98	250.00
PFHpA_2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	57164.98	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	20400.81	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	20400.81	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	72487.67	250.00
PFOA_2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	72487.67	250.00
PFNA_1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	81124.10	250.00
PFNA_2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	81124.10	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	26137.09	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	26137.09	239.25
PFDA_1	513.0 / 469.0	3.44	13C6-PFDA	519.0 / 474.0	83501.44	250.00
PFDA_2	513.0 / 219.0	3.44	13C6-PFDA	519.0 / 474.0	83501.44	250.00
PFUnA_1	563.0 / 519.0	3.76	13C7-PFUnA	570.0 / 525.0	83078.66	250.00
PFUnA_2	563.0 / 269.0	3.76	13C7-PFUnA	570.0 / 525.0	83078.66	250.00
PFDoA_1	613.0 / 569.0	4.04	13C2-PFDoA	615.0 / 570.0	84710.69	250.00
PFDoA_2	613.0 / 319.0	4.04	13C2-PFDoA	615.0 / 570.0	84710.69	250.00
PFTeDA_1	663.0 / 619.0	4.29	13C2-PFTeDA	715.0 / 670.0	68247.99	250.00
PFTeDA_2	663.0 / 169.0	4.29	13C2-PFTeDA	715.0 / 670.0	68247.99	250.00
PFTeDA_1	713.0 / 669.0	4.50	13C2-PFTeDA	715.0 / 670.0	68247.99	250.00
PFTeDA_2	713.0 / 169.0	4.50	13C2-PFTeDA	715.0 / 670.0	68247.99	250.00
NMeFOSAA_1	570.0 / 419.0	3.59	d3-MeFOSAA	573.0 / 419.0	15747.74	250.00
NMeFOSAA_2	570.0 / 512.0	3.59	d3-MeFOSAA	573.0 / 419.0	15747.74	250.00
NEtFOSAA_1	584.0 / 419.0	3.76	d5-EtFOSAA	589.0 / 419.0	14367.68	250.00
NEtFOSAA_2	584.0 / 483.0	3.75	d5-EtFOSAA	589.0 / 419.0	14367.68	250.00

Sample Name	J8455-FS(0)	Injection Vial	33
Sample ID	VC-SO-FB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:34:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	24646.77	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	24646.77	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	59084.53	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	59084.53	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	68730.93	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	68730.93	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	21169.07	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	21169.07	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	85723.10	250.00
PFOA_2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	85723.10	250.00
PFNA_1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	91202.04	250.00
PFNA_2	463.0 / 219.0	3.10	13C9-PFNA	472.0 / 427.0	91202.04	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	28722.91	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	28722.91	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	99078.81	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	99078.81	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	90706.02	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	90706.02	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	91604.36	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	91604.36	250.00
PFTrDA_1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	73904.29	250.00
PFTrDA_2	663.0 / 169.0	4.29	13C2-PFTeDA	715.0 / 670.0	73904.29	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	73904.29	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	73904.29	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15060.47	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15060.47	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	18841.87	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	18841.87	250.00

Sample Name	J8456-FS(0)	Injection Vial	34
Sample ID	VC-SO-EB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:45:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.55	13C3-PFBS	302.0 / 99.0	25457.17	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	25457.17	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	61334.47	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	61334.47	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	65444.91	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	65444.91	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	25130.33	1.00
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	25130.33	1.00
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	88741.78	250.00
PFOA_2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	88741.78	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	87025.50	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	87025.50	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	26841.52	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	26841.52	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	95455.61	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	95455.61	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	90169.56	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	90169.56	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	94085.87	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	94085.87	250.00
PFTeDA_1	663.0 / 619.0	4.29	13C2-PFTeDA	715.0 / 670.0	81356.14	250.00
PFTeDA_2	663.0 / 169.0	4.29	13C2-PFTeDA	715.0 / 670.0	81356.14	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	81356.14	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	81356.14	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	14930.26	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	14930.26	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	15790.90	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	15790.90	250.00

Sample Name	J8457-FS(0)	Injection Vial	35
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:56:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	27240.12	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	27240.12	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	55190.77	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	55190.77	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	49582.98	250.00
PFHpA_2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	49582.98	250.00
PFHxS_1	399.0 / 80.0	2.24	13C3-PFHxS	402.0 / 99.0	15430.68	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	15430.68	236.50
PFOA_1	413.0 / 369.0	2.66	13C8-PFOA	421.0 / 376.0	50165.88	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	50165.88	250.00
PFNA_1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	39658.05	250.00
PFNA_2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	39658.05	250.00
PFOS_1	499.0 / 80.0	2.99	13C8-PFOS	507.0 / 99.0	11693.48	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	11693.48	239.25
PFDA_1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	81608.17	250.00
PFDA_2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	81608.17	250.00
PFUnA_1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	83665.46	250.00
PFUnA_2	563.0 / 269.0	3.73	13C7-PFUnA	570.0 / 525.0	83665.46	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	89827.09	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	89827.09	250.00
PFTeDA_1	663.0 / 619.0	4.29	13C2-PFTeDA	715.0 / 670.0	70974.05	250.00
PFTeDA_2	663.0 / 169.0	4.29	13C2-PFTeDA	715.0 / 670.0	70974.05	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	70974.05	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	70974.05	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15258.21	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15258.21	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	18075.94	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	18075.94	250.00

Sample Name	J8457-FS-D(3)	Injection Vial	36
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:07:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	34374.04	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	34374.04	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	65865.41	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	65865.41	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	75505.69	250.00
PFHpA_2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	75505.69	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	22906.12	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	22906.12	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	82004.18	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	82004.18	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	91612.19	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	91612.19	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	28109.72	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	28109.72	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	106362.89	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	106362.89	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	97970.03	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	97970.03	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	96585.44	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	96585.44	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	77224.32	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	77224.32	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	77224.32	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	77224.32	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15075.44	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15075.44	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17771.69	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17771.69	250.00

Sample Name	J8457-FS-D(5)	Injection Vial	37
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:18:02	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	33549.94	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	33549.94	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	60224.65	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	60224.65	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	70822.59	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	70822.59	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	20229.77	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	20229.77	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	83485.14	250.00
PFOA_2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	83485.14	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	93285.55	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	93285.55	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	27696.38	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	27696.38	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	97249.71	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	97249.71	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	91896.24	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	91896.24	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	89996.79	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	89996.79	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	75876.64	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	75876.64	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	75876.64	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	75876.64	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16254.91	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16254.91	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16223.02	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16223.02	250.00

Sample Name	J8457-FS-D(7)	Injection Vial	38
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:28:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	32365.03	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	32365.03	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	67026.59	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	67026.59	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	77442.85	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	77442.85	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	28374.22	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	28374.22	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	97818.55	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	97818.55	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	98068.65	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	98068.65	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	30645.35	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	30645.35	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	110148.88	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	110148.88	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	97051.12	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	97051.12	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	101505.45	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	101505.45	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	84719.07	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	84719.07	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	84719.07	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	84719.07	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	17737.43	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	17737.43	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	20719.18	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	20719.18	250.00



Sample Name	J8458-FS(0)	Injection Vial	41
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:01:33	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.53	13C3-PFBS	302.0 / 99.0	31993.06	232.25
PFBS_2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	31993.06	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	61795.40	250.00
PFHxA_2	313.0 / 119.0	1.85	13C5-PFHxA	318.0 / 273.0	61795.40	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	61159.03	250.00
PFHpA_2	363.0 / 169.0	2.25	13C4-PFHpA	367.0 / 322.0	61159.03	250.00
PFHxS_1	399.0 / 80.0	2.27	13C3-PFHxS	402.0 / 99.0	20629.99	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	20629.99	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	60781.48	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	60781.48	250.00
PFNA_1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	53665.04	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	53665.04	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	18070.26	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	18070.26	239.25
PFDA_1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	84255.58	250.00
PFDA_2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	84255.58	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	83184.54	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	83184.54	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	82087.39	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	82087.39	250.00
PFTeDA_1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	70203.52	250.00
PFTeDA_2	663.0 / 169.0	4.29	13C2-PFTeDA	715.0 / 670.0	70203.52	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	70203.52	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	70203.52	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	13714.58	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	13714.58	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	15727.02	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	15727.02	250.00

Sample Name	J8458-FS-D(3)	Injection Vial	42
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:12:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	31202.40	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	31202.40	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	65037.03	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	65037.03	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	73802.32	250.00
PFHpA_2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	73802.32	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	25333.11	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	25333.11	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	93025.38	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	93025.38	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	94201.68	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	94201.68	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	32175.98	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	32175.98	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	102415.62	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	102415.62	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	101644.49	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	101644.49	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	100076.66	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	100076.66	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	82274.55	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	82274.55	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	82274.55	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	82274.55	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15315.50	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15315.50	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	18664.43	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	18664.43	250.00

Sample Name	J8458-FS-D(5)	Injection Vial	43
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:23:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	30426.70	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	30426.70	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	63678.25	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	63678.25	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	73257.64	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	73257.64	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	24231.03	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	24231.03	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	94308.00	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	94308.00	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	99856.71	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	99856.71	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	31299.39	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	31299.39	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	100427.86	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	100427.86	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	99426.98	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	99426.98	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	102547.95	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	102547.95	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	77627.28	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	77627.28	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	77627.28	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	77627.28	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	18534.23	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	18534.23	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17377.94	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17377.94	250.00

Sample Name	J8459-FS(0)	Injection Vial	44
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:34:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	28761.15	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	28761.15	232.25
PFHxA_1	313.0 / 269.0	1.84	13C5-PFHxA	318.0 / 273.0	49649.08	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	49649.08	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	55377.88	250.00
PFHpA_2	363.0 / 169.0	2.22	13C4-PFHpA	367.0 / 322.0	55377.88	250.00
PFHxS_1	399.0 / 80.0	2.25	13C3-PFHxS	402.0 / 99.0	18907.20	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	18907.20	236.50
PFOA_1	413.0 / 369.0	2.64	13C8-PFOA	421.0 / 376.0	44325.36	250.00
PFOA_2	413.0 / 169.0	2.68	13C8-PFOA	421.0 / 376.0	44325.36	250.00
PFNA_1	463.0 / 419.0	3.03	13C9-PFNA	472.0 / 427.0	71814.50	250.00
PFNA_2	463.0 / 219.0	3.03	13C9-PFNA	472.0 / 427.0	71814.50	250.00
PFOS_1	499.0 / 80.0	2.97	13C8-PFOS	507.0 / 99.0	19769.33	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	19769.33	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	84724.77	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	84724.77	250.00
PFUnA_1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	83434.80	250.00
PFUnA_2	563.0 / 269.0	3.71	13C7-PFUnA	570.0 / 525.0	83434.80	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	86747.32	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	86747.32	250.00
PFTeDA_1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	65742.03	250.00
PFTeDA_2	663.0 / 169.0	4.27	13C2-PFTeDA	715.0 / 670.0	65742.03	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	65742.03	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	65742.03	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15019.19	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15019.19	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	15069.74	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	15069.74	250.00

Sample Name	J8459-FS-D(3)	Injection Vial	45
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:44:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	30312.19	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	30312.19	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	63249.27	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	63249.27	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	71504.55	250.00
PFHpA_2	363.0 / 169.0	2.25	13C4-PFHpA	367.0 / 322.0	71504.55	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	24759.05	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	24759.05	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	83781.14	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	83781.14	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	91597.51	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	91597.51	250.00
PFOS_1	499.0 / 80.0	2.97	13C8-PFOS	507.0 / 99.0	28332.48	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	28332.48	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	102501.51	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	102501.51	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	100224.26	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	100224.26	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	96427.22	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	96427.22	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	76259.46	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	76259.46	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	76259.46	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	76259.46	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16130.03	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16130.03	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17904.34	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17904.34	250.00

Sample Name	J8459-FS-D(5)	Injection Vial	46
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:55:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	25460.01	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	25460.01	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	60339.33	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	60339.33	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	66635.92	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	66635.92	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	23592.48	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	23592.48	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	85305.93	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	85305.93	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	93060.57	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	93060.57	250.00
PFOS_1	499.0 / 80.0	N/A	13C8-PFOS	507.0 / 99.0	28738.12	239.25
PFOS_2	499.0 / 99.0	N/A	13C8-PFOS	507.0 / 99.0	28738.12	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	105340.05	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	105340.05	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	97051.27	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	97051.27	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	102064.86	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	102064.86	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	74267.01	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	74267.01	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	74267.01	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	74267.01	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16719.22	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16719.22	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	19160.62	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	19160.62	250.00

Sample Name	J8460-FS(0)	Injection Vial	47
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:06:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	30292.98	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	30292.98	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	54072.25	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	54072.25	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	53319.14	250.00
PFHpA_2	363.0 / 169.0	2.24	13C4-PFHpA	367.0 / 322.0	53319.14	250.00
PFHxS_1	399.0 / 80.0	2.22	13C3-PFHxS	402.0 / 99.0	19812.85	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	19812.85	236.50
PFOA_1	413.0 / 369.0	2.66	13C8-PFOA	421.0 / 376.0	46113.98	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	46113.98	250.00
PFNA_1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	48478.27	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	48478.27	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	16243.26	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	16243.26	239.25
PFDA_1	513.0 / 469.0	3.38	13C6-PFDA	519.0 / 474.0	86043.58	250.00
PFDA_2	513.0 / 219.0	3.40	13C6-PFDA	519.0 / 474.0	86043.58	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	81549.81	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	81549.81	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	84789.17	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	84789.17	250.00
PFTeDA_1	663.0 / 619.0	4.27	13C2-PFTeDA	715.0 / 670.0	70245.16	250.00
PFTeDA_2	663.0 / 169.0	4.32	13C2-PFTeDA	715.0 / 670.0	70245.16	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	70245.16	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	70245.16	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	13308.56	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	13308.56	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	14318.38	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	14318.38	250.00

Sample Name	J8460-FS-D(3)	Injection Vial	48
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:17:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	31166.38	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	31166.38	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	60106.76	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	60106.76	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	66766.73	250.00
PFHpA_2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	66766.73	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	22822.39	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22822.39	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	83548.08	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	83548.08	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	85488.99	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	85488.99	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	28061.81	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	28061.81	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	94410.68	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	94410.68	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	87478.65	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	87478.65	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	92649.14	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	92649.14	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	76670.40	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	76670.40	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	76670.40	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	76670.40	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15160.83	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15160.83	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17302.05	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17302.05	250.00



Sample Name	J8460-FS-D(5)	Injection Vial	49
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:28:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	29022.12	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	29022.12	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	60501.92	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	60501.92	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	67981.04	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	67981.04	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	23123.96	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	23123.96	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	86988.37	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	86988.37	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	88026.66	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	88026.66	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	26678.87	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	26678.87	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	100285.18	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	100285.18	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	92869.20	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	92869.20	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	96412.94	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	96412.94	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	73944.30	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	73944.30	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	73944.30	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	73944.30	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16908.36	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16908.36	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17443.42	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17443.42	250.00

Sample Name	J8461-FS(0)	Injection Vial	52
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:01:04	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	30430.21	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	30430.21	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	55225.02	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	55225.02	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	53466.30	250.00
PFHpA_2	363.0 / 169.0	2.24	13C4-PFHpA	367.0 / 322.0	53466.30	250.00
PFHxS_1	399.0 / 80.0	2.25	13C3-PFHxS	402.0 / 99.0	15791.40	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	15791.40	236.50
PFOA_1	413.0 / 369.0	2.66	13C8-PFOA	421.0 / 376.0	43301.17	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	43301.17	250.00
PFNA_1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	44396.79	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	44396.79	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	15375.23	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	15375.23	239.25
PFDA_1	513.0 / 469.0	3.39	13C6-PFDA	519.0 / 474.0	88029.71	250.00
PFDA_2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	88029.71	250.00
PFUnA_1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	84921.64	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	84921.64	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	83710.69	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	83710.69	250.00
PFTeDA_1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	65151.90	250.00
PFTeDA_2	663.0 / 169.0	4.25	13C2-PFTeDA	715.0 / 670.0	65151.90	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	65151.90	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	65151.90	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	12249.93	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	12249.93	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	15446.77	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	15446.77	250.00

Sample Name	J8461-FS-D(3)	Injection Vial	53
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:11:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	29764.35	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	29764.35	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	63918.86	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	63918.86	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	74288.78	250.00
PFHpA_2	363.0 / 169.0	2.25	13C4-PFHpA	367.0 / 322.0	74288.78	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	22652.17	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22652.17	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	83974.37	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	83974.37	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	82670.17	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	82670.17	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	26890.67	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	26890.67	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	101345.25	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	101345.25	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	99049.92	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	99049.92	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	93776.45	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	93776.45	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	78554.94	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78554.94	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	78554.94	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78554.94	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16895.45	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16895.45	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16571.64	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16571.64	250.00

Sample Name	J8461-FS-D(5)	Injection Vial	54
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:22:47	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	28133.15	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	28133.15	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	61356.59	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	61356.59	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	71015.30	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	71015.30	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	23572.94	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	23572.94	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	89034.48	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	89034.48	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	98734.78	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	98734.78	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	30192.45	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	30192.45	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	99933.52	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	99933.52	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	105122.97	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	105122.97	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	99404.55	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	99404.55	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	82457.84	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	82457.84	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	82457.84	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	82457.84	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	19147.43	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	19147.43	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	20379.39	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	20379.39	250.00

Sample Name	J8462-FS(0)	Injection Vial	1
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:33:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	32402.61	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	32402.61	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	58132.55	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	58132.55	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	58318.00	250.00
PFHpA_2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	58318.00	250.00
PFHxS_1	399.0 / 80.0	2.28	13C3-PFHxS	402.0 / 99.0	19717.75	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	19717.75	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	52139.10	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	52139.10	250.00
PFNA_1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	41399.66	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	41399.66	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	13945.75	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	13945.75	239.25
PFDA_1	513.0 / 469.0	3.42	13C6-PFDA	519.0 / 474.0	78520.49	250.00
PFDA_2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	78520.49	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	78538.66	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	78538.66	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	79841.03	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	79841.03	250.00
PFTrDA_1	663.0 / 619.0	4.21	13C2-PFTeDA	715.0 / 670.0	66135.87	250.00
PFTrDA_2	663.0 / 169.0	4.33	13C2-PFTeDA	715.0 / 670.0	66135.87	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	66135.87	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	66135.87	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	13673.13	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	13673.13	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	13724.27	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	13724.27	250.00

Sample Name	J8462-FS-D(3)	Injection Vial	2
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:44:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	33346.96	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	33346.96	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	69080.25	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	69080.25	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	78399.66	250.00
PFHpA_2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	78399.66	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	26176.33	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	26176.33	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	94920.50	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	94920.50	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	92942.88	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	92942.88	250.00
PFOS_1	499.0 / 80.0	3.05	13C8-PFOS	507.0 / 99.0	26957.43	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	26957.43	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	114103.58	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	114103.58	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	106239.02	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	106239.02	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	105940.96	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	105940.96	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	82102.97	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	82102.97	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	82102.97	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	82102.97	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	19521.50	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	19521.50	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	20999.08	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	20999.08	250.00

Sample Name	J8462-FS-D(5)	Injection Vial	3
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:55:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	30335.23	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	30335.23	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	69213.70	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	69213.70	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	78822.39	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	78822.39	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	26407.22	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	26407.22	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	100537.95	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	100537.95	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	99308.80	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	99308.80	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	26915.07	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	26915.07	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	111120.80	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	111120.80	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	104306.75	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	104306.75	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	109808.78	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	109808.78	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	83859.35	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	83859.35	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	83859.35	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	83859.35	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	17248.78	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	17248.78	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	19109.07	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	19109.07	250.00

Sample Name	J8463MS-FS(0)	Injection Vial	4
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:06:18	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	28723.73	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	28723.73	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	48357.03	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	48357.03	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	55391.00	250.00
PFHpA_2	363.0 / 169.0	2.27	13C4-PFHpA	367.0 / 322.0	55391.00	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	15949.05	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	15949.05	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	49887.32	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	49887.32	250.00
PFNA_1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	42114.08	250.00
PFNA_2	463.0 / 219.0	3.08	13C9-PFNA	472.0 / 427.0	42114.08	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	13302.56	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	13302.56	239.25
PFDA_1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	68185.34	250.00
PFDA_2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	68185.34	250.00
PFUnA_1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	64645.81	250.00
PFUnA_2	563.0 / 269.0	3.75	13C7-PFUnA	570.0 / 525.0	64645.81	250.00
PFDoA_1	613.0 / 569.0	4.04	13C2-PFDoA	615.0 / 570.0	76104.92	250.00
PFDoA_2	613.0 / 319.0	4.04	13C2-PFDoA	615.0 / 570.0	76104.92	250.00
PFTeDA_1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	66232.21	250.00
PFTeDA_2	663.0 / 169.0	4.28	13C2-PFTeDA	715.0 / 670.0	66232.21	250.00
PFTeDA_1	713.0 / 669.0	4.49	13C2-PFTeDA	715.0 / 670.0	66232.21	250.00
PFTeDA_2	713.0 / 169.0	4.49	13C2-PFTeDA	715.0 / 670.0	66232.21	250.00
NMeFOSAA_1	570.0 / 419.0	3.59	d3-MeFOSAA	573.0 / 419.0	12875.10	250.00
NMeFOSAA_2	570.0 / 512.0	3.59	d3-MeFOSAA	573.0 / 419.0	12875.10	250.00
NEtFOSAA_1	584.0 / 419.0	3.75	d5-EtFOSAA	589.0 / 419.0	11434.77	250.00
NEtFOSAA_2	584.0 / 483.0	3.75	d5-EtFOSAA	589.0 / 419.0	11434.77	250.00



Sample Name	J8463MS-FS-D(3)	Injection Vial	5
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:17:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	33768.21	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	33768.21	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	69793.41	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	69793.41	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	80603.48	250.00
PFHpA_2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	80603.48	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	21314.51	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	21314.51	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	83438.03	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	83438.03	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	89711.85	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	89711.85	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	27660.82	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	27660.82	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	105288.18	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	105288.18	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	94740.12	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	94740.12	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	98278.72	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	98278.72	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	80877.07	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	80877.07	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	80877.07	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	80877.07	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15697.91	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15697.91	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	19081.89	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	19081.89	250.00

Sample Name	J8463MS-FS-D(5)	Injection Vial	6
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:28:05	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	29607.29	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	29607.29	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	65636.12	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	65636.12	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	71534.64	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	71534.64	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	27070.76	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	27070.76	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	92689.03	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	92689.03	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	96401.32	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	96401.32	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	29805.42	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	29805.42	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	104201.52	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	104201.52	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	101707.44	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	101707.44	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	96727.17	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	96727.17	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	80176.52	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	80176.52	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	80176.52	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	80176.52	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	13606.10	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	13606.10	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	18328.14	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	18328.14	250.00

Sample Name	J8464MSD-FS(0)	Injection Vial	9
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:00:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.53	13C3-PFBS	302.0 / 99.0	34131.67	232.25
PFBS_2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	34131.67	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	68101.48	250.00
PFHxA_2	313.0 / 119.0	1.85	13C5-PFHxA	318.0 / 273.0	68101.48	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	67172.86	250.00
PFHpA_2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	67172.86	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	22874.08	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22874.08	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	62415.29	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	62415.29	250.00
PFNA_1	463.0 / 419.0	3.08	13C9-PFNA	472.0 / 427.0	51124.52	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	51124.52	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	15929.24	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	15929.24	239.25
PFDA_1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	93370.50	250.00
PFDA_2	513.0 / 219.0	3.43	13C6-PFDA	519.0 / 474.0	93370.50	250.00
PFUnA_1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	87018.56	250.00
PFUnA_2	563.0 / 269.0	3.75	13C7-PFUnA	570.0 / 525.0	87018.56	250.00
PFDoA_1	613.0 / 569.0	4.03	13C2-PFDoA	615.0 / 570.0	105851.90	250.00
PFDoA_2	613.0 / 319.0	4.03	13C2-PFDoA	615.0 / 570.0	105851.90	250.00
PFTeDA_1	663.0 / 619.0	4.27	13C2-PFTeDA	715.0 / 670.0	79517.85	250.00
PFTeDA_2	663.0 / 169.0	4.27	13C2-PFTeDA	715.0 / 670.0	79517.85	250.00
PFTeDA_1	713.0 / 669.0	4.49	13C2-PFTeDA	715.0 / 670.0	79517.85	250.00
PFTeDA_2	713.0 / 169.0	4.49	13C2-PFTeDA	715.0 / 670.0	79517.85	250.00
NMeFOSAA_1	570.0 / 419.0	3.58	d3-MeFOSAA	573.0 / 419.0	17011.07	250.00
NMeFOSAA_2	570.0 / 512.0	3.58	d3-MeFOSAA	573.0 / 419.0	17011.07	250.00
NEtFOSAA_1	584.0 / 419.0	3.74	d5-EtFOSAA	589.0 / 419.0	15826.47	250.00
NEtFOSAA_2	584.0 / 483.0	3.74	d5-EtFOSAA	589.0 / 419.0	15826.47	250.00

Sample Name	J8464MSD-FS-D(3)	Injection Vial	10
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:11:37	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	33197.47	232.25
PFBS_2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	33197.47	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	67467.81	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	67467.81	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	74951.45	250.00
PFHpA_2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	74951.45	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	22045.61	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22045.61	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	84202.87	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	84202.87	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	85217.42	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	85217.42	250.00
PFOS_1	499.0 / 80.0	3.05	13C8-PFOS	507.0 / 99.0	27967.15	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	27967.15	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	101829.51	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	101829.51	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	100738.32	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	100738.32	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	101457.81	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	101457.81	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	79357.91	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	79357.91	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	79357.91	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	79357.91	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16208.66	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16208.66	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17298.27	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17298.27	250.00

Sample Name	J8464MSD-FS-D(5)	Injection Vial	11
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:22:30	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	30897.40	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	30897.40	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	70774.71	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	70774.71	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	78720.44	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	78720.44	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	29222.13	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	29222.13	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	93605.94	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	93605.94	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	100429.82	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	100429.82	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	29818.21	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	29818.21	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	111083.50	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	111083.50	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	105375.09	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	105375.09	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	107845.61	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	107845.61	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	83992.57	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	83992.57	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	83992.57	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	83992.57	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	18596.37	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	18596.37	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	20125.20	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	20125.20	250.00

Sample Name	J8477-FS(0)	Injection Vial	12
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:33:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.53	13C3-PFBS	302.0 / 99.0	28137.43	232.25
PFBS_2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	28137.43	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	73666.14	250.00
PFHxA_2	313.0 / 119.0	1.85	13C5-PFHxA	318.0 / 273.0	73666.14	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	68043.87	250.00
PFHpA_2	363.0 / 169.0	2.25	13C4-PFHpA	367.0 / 322.0	68043.87	250.00
PFHxS_1	399.0 / 80.0	2.27	13C3-PFHxS	402.0 / 99.0	22251.32	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22251.32	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	60621.87	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	60621.87	250.00
PFNA_1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	52485.80	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	52485.80	250.00
PFOS_1	499.0 / 80.0	2.99	13C8-PFOS	507.0 / 99.0	16860.14	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	16860.14	239.25
PFDA_1	513.0 / 469.0	3.42	13C6-PFDA	519.0 / 474.0	92978.68	250.00
PFDA_2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	92978.68	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	101388.35	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	101388.35	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	100110.05	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	100110.05	250.00
PFTrDA_1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	58500.44	250.00
PFTrDA_2	663.0 / 169.0	4.25	13C2-PFTeDA	715.0 / 670.0	58500.44	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	58500.44	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	58500.44	250.00
NMeFOSAA_1	570.0 / 419.0	3.53	d3-MeFOSAA	573.0 / 419.0	18133.25	250.00
NMeFOSAA_2	570.0 / 512.0	3.58	d3-MeFOSAA	573.0 / 419.0	18133.25	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	21129.72	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	21129.72	250.00

Sample Name	J8477-FS-D(3)	Injection Vial	13
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:44:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	43345.99	232.25
PFBS_2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	43345.99	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	78844.54	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	78844.54	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	86795.19	250.00
PFHpA_2	363.0 / 169.0	2.26	13C4-PFHpA	367.0 / 322.0	86795.19	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	27426.39	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	27426.39	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	86029.96	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	86029.96	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	92138.92	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	92138.92	250.00
PFOS_1	499.0 / 80.0	3.04	13C8-PFOS	507.0 / 99.0	28641.06	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	28641.06	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	107854.52	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	107854.52	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	110626.29	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	110626.29	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	109199.97	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	109199.97	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	85411.46	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	85411.46	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	85411.46	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	85411.46	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	18507.01	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	18507.01	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	21885.40	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	21885.40	250.00

Sample Name	J8477-FS-D(5)	Injection Vial	14
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:55:10	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	28845.86	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	28845.86	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	62713.02	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	62713.02	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	66936.40	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	66936.40	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	22120.20	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22120.20	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	84663.82	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	84663.82	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	86675.37	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	86675.37	250.00
PFOS_1	499.0 / 80.0	3.07	13C8-PFOS	507.0 / 99.0	27227.89	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	27227.89	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	100057.16	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	100057.16	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	95677.15	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	95677.15	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	93189.77	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	93189.77	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	75502.39	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	75502.39	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	75502.39	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	75502.39	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16765.31	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16765.31	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17012.05	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17012.05	250.00



Sample Name	J8478-FS(0)	Injection Vial	15
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:06:03	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	29465.51	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	29465.51	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	52877.28	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	52877.28	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	58824.09	250.00
PFHpA_2	363.0 / 169.0	2.23	13C4-PFHpA	367.0 / 322.0	58824.09	250.00
PFHxS_1	399.0 / 80.0	2.24	13C3-PFHxS	402.0 / 99.0	19168.20	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	19168.20	236.50
PFOA_1	413.0 / 369.0	2.65	13C8-PFOA	421.0 / 376.0	45445.82	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	45445.82	250.00
PFNA_1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	60918.28	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	60918.28	250.00
PFOS_1	499.0 / 80.0	3.03	13C8-PFOS	507.0 / 99.0	19599.26	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	19599.26	239.25
PFDA_1	513.0 / 469.0	3.43	13C6-PFDA	519.0 / 474.0	86730.75	250.00
PFDA_2	513.0 / 219.0	3.41	13C6-PFDA	519.0 / 474.0	86730.75	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	93053.02	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	93053.02	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	85329.56	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	85329.56	250.00
PFTrDA_1	663.0 / 619.0	4.23	13C2-PFTeDA	715.0 / 670.0	56619.29	250.00
PFTrDA_2	663.0 / 169.0	4.21	13C2-PFTeDA	715.0 / 670.0	56619.29	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	56619.29	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	56619.29	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16621.27	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16621.27	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16936.99	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16936.99	250.00

Sample Name	J8478-FS-D(3)	Injection Vial	16
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:16:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	34599.48	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	34599.48	232.25
PFHxA_1	313.0 / 269.0	1.86	13C5-PFHxA	318.0 / 273.0	61961.91	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	61961.91	250.00
PFHpA_1	363.0 / 319.0	2.27	13C4-PFHpA	367.0 / 322.0	73835.96	250.00
PFHpA_2	363.0 / 169.0	2.25	13C4-PFHpA	367.0 / 322.0	73835.96	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	23100.23	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	23100.23	236.50
PFOA_1	413.0 / 369.0	2.68	13C8-PFOA	421.0 / 376.0	80012.29	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	80012.29	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	86130.58	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	86130.58	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	25962.53	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	25962.53	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	103335.32	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	103335.32	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	95492.63	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	95492.63	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	94837.45	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	94837.45	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	76210.72	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	76210.72	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	76210.72	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	76210.72	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16675.79	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16675.79	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	18942.85	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	18942.85	250.00

Sample Name	J8478-FS-D(5)	Injection Vial	17
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:27:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	35714.40	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	35714.40	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	74952.28	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	74952.28	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	79558.83	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	79558.83	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	25558.08	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	25558.08	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	106174.61	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	106174.61	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	103813.57	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	103813.57	250.00
PFOS_1	499.0 / 80.0	N/A	13C8-PFOS	507.0 / 99.0	35404.84	239.25
PFOS_2	499.0 / 99.0	N/A	13C8-PFOS	507.0 / 99.0	35404.84	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	116460.10	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	116460.10	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	111106.17	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	111106.17	250.00
PFDaA_1	613.0 / 569.0	N/A	13C2-PFDaA	615.0 / 570.0	111261.06	250.00
PFDaA_2	613.0 / 319.0	N/A	13C2-PFDaA	615.0 / 570.0	111261.06	250.00
PFTTrDA_1	663.0 / 619.0	N/A	13C2-PFTTeDA	715.0 / 670.0	90627.75	250.00
PFTTrDA_2	663.0 / 169.0	N/A	13C2-PFTTeDA	715.0 / 670.0	90627.75	250.00
PFTTeDA_1	713.0 / 669.0	N/A	13C2-PFTTeDA	715.0 / 670.0	90627.75	250.00
PFTTeDA_2	713.0 / 169.0	N/A	13C2-PFTTeDA	715.0 / 670.0	90627.75	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	20789.68	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	20789.68	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	22121.71	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	22121.71	250.00

Sample Name	J8479-FS(0)	Injection Vial	20
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:00:25	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.53	13C3-PFBS	302.0 / 99.0	30758.37	232.25
PFBS_2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	30758.37	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	54820.50	250.00
PFHxA_2	313.0 / 119.0	1.85	13C5-PFHxA	318.0 / 273.0	54820.50	250.00
PFHpA_1	363.0 / 319.0	2.25	13C4-PFHpA	367.0 / 322.0	60029.81	250.00
PFHpA_2	363.0 / 169.0	2.22	13C4-PFHpA	367.0 / 322.0	60029.81	250.00
PFHxS_1	399.0 / 80.0	2.25	13C3-PFHxS	402.0 / 99.0	18628.60	236.50
PFHxS_2	399.0 / 99.0	2.28	13C3-PFHxS	402.0 / 99.0	18628.60	236.50
PFOA_1	413.0 / 369.0	2.64	13C8-PFOA	421.0 / 376.0	42168.39	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	42168.39	250.00
PFNA_1	463.0 / 419.0	3.05	13C9-PFNA	472.0 / 427.0	48936.44	250.00
PFNA_2	463.0 / 219.0	2.98	13C9-PFNA	472.0 / 427.0	48936.44	250.00
PFOS_1	499.0 / 80.0	2.99	13C8-PFOS	507.0 / 99.0	14556.83	239.25
PFOS_2	499.0 / 99.0	3.06	13C8-PFOS	507.0 / 99.0	14556.83	239.25
PFDA_1	513.0 / 469.0	3.41	13C6-PFDA	519.0 / 474.0	89996.06	250.00
PFDA_2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	89996.06	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	86573.42	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	86573.42	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	86483.18	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	86483.18	250.00
PFTeDA_1	663.0 / 619.0	4.26	13C2-PFTeDA	715.0 / 670.0	68948.28	250.00
PFTeDA_2	663.0 / 169.0	4.27	13C2-PFTeDA	715.0 / 670.0	68948.28	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	68948.28	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	68948.28	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	13678.36	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	13678.36	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	15223.50	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	15223.50	250.00

Sample Name	J8479-FS-D(3)	Injection Vial	21
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:11:19	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	31357.83	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	31357.83	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	61029.59	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	61029.59	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	74112.75	250.00
PFHpA_2	363.0 / 169.0	2.24	13C4-PFHpA	367.0 / 322.0	74112.75	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	23429.57	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	23429.57	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	73284.05	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	73284.05	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	91556.75	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	91556.75	250.00
PFOS_1	499.0 / 80.0	2.99	13C8-PFOS	507.0 / 99.0	26822.69	239.25
PFOS_2	499.0 / 99.0	3.06	13C8-PFOS	507.0 / 99.0	26822.69	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	98849.70	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	98849.70	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	95911.09	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	95911.09	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	90855.49	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	90855.49	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	73822.58	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	73822.58	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	73822.58	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	73822.58	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15469.18	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15469.18	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16788.24	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16788.24	250.00

Sample Name	J8479-FS-D(5)	Injection Vial	22
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:22:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	32326.49	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	32326.49	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	72921.70	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	72921.70	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	79418.79	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	79418.79	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	27056.32	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	27056.32	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	98432.76	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	98432.76	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	108005.88	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	108005.88	250.00
PFOS_1	499.0 / 80.0	2.99	13C8-PFOS	507.0 / 99.0	33734.68	239.25
PFOS_2	499.0 / 99.0	3.06	13C8-PFOS	507.0 / 99.0	33734.68	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	114387.50	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	114387.50	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	114101.73	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	114101.73	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	108292.56	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	108292.56	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	90606.89	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	90606.89	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	90606.89	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	90606.89	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	20698.26	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	20698.26	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	20652.16	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	20652.16	250.00

Sample Name	J8480-FS(0)	Injection Vial	23
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:33:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	34931.15	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	34931.15	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	60734.93	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	60734.93	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	61175.24	250.00
PFHpA_2	363.0 / 169.0	2.23	13C4-PFHpA	367.0 / 322.0	61175.24	250.00
PFHxS_1	399.0 / 80.0	2.26	13C3-PFHxS	402.0 / 99.0	22705.11	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22705.11	236.50
PFOA_1	413.0 / 369.0	2.65	13C8-PFOA	421.0 / 376.0	44347.44	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	44347.44	250.00
PFNA_1	463.0 / 419.0	3.05	13C9-PFNA	472.0 / 427.0	48356.09	250.00
PFNA_2	463.0 / 219.0	2.99	13C9-PFNA	472.0 / 427.0	48356.09	250.00
PFOS_1	499.0 / 80.0	2.99	13C8-PFOS	507.0 / 99.0	14741.14	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	14741.14	239.25
PFDA_1	513.0 / 469.0	3.41	13C6-PFDA	519.0 / 474.0	96205.55	250.00
PFDA_2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	96205.55	250.00
PFUnA_1	563.0 / 519.0	3.75	13C7-PFUnA	570.0 / 525.0	88711.77	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	88711.77	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	93510.12	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	93510.12	250.00
PFTrDA_1	663.0 / 619.0	4.28	13C2-PFTeDA	715.0 / 670.0	72093.50	250.00
PFTrDA_2	663.0 / 169.0	4.27	13C2-PFTeDA	715.0 / 670.0	72093.50	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	72093.50	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	72093.50	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	14819.98	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	14819.98	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16334.33	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16334.33	250.00

Sample Name	J8480-FS-D(3)	Injection Vial	24
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:44:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	33447.25	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	33447.25	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	63452.53	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	63452.53	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	76501.78	250.00
PFHpA_2	363.0 / 169.0	2.24	13C4-PFHpA	367.0 / 322.0	76501.78	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	24503.22	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	24503.22	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	75753.15	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	75753.15	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	86595.49	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	86595.49	250.00
PFOS_1	499.0 / 80.0	2.99	13C8-PFOS	507.0 / 99.0	26207.35	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	26207.35	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	108290.25	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	108290.25	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	99738.26	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	99738.26	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	98234.05	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	98234.05	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	78328.14	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78328.14	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	78328.14	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78328.14	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	17792.43	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	17792.43	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	18025.78	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	18025.78	250.00



Sample Name	J8480-FS-D(5)	Injection Vial	25
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:54:54	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	29220.05	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	29220.05	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	68581.63	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	68581.63	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	70050.17	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	70050.17	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	27242.93	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	27242.93	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	83779.97	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	83779.97	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	99055.79	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	99055.79	250.00
PFOS_1	499.0 / 80.0	3.00	13C8-PFOS	507.0 / 99.0	26236.44	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	26236.44	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	103537.56	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	103537.56	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	99998.53	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	99998.53	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	103263.02	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	103263.02	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	78889.15	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78889.15	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	78889.15	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78889.15	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	19646.56	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	19646.56	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	19314.03	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	19314.03	250.00

Sample Name	J8481-FS(0)	Injection Vial	26
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:05:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.53	13C3-PFBS	302.0 / 99.0	31907.92	232.25
PFBS_2	298.9 / 99.0	1.53	13C3-PFBS	302.0 / 99.0	31907.92	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	64712.68	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	64712.68	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	65513.49	250.00
PFHpA_2	363.0 / 169.0	2.24	13C4-PFHpA	367.0 / 322.0	65513.49	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	22671.89	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	22671.89	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	51392.54	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	51392.54	250.00
PFNA_1	463.0 / 419.0	3.07	13C9-PFNA	472.0 / 427.0	59513.36	250.00
PFNA_2	463.0 / 219.0	3.07	13C9-PFNA	472.0 / 427.0	59513.36	250.00
PFOS_1	499.0 / 80.0	3.02	13C8-PFOS	507.0 / 99.0	21935.84	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	21935.84	239.25
PFDA_1	513.0 / 469.0	3.42	13C6-PFDA	519.0 / 474.0	88667.19	250.00
PFDA_2	513.0 / 219.0	3.42	13C6-PFDA	519.0 / 474.0	88667.19	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	75512.07	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	75512.07	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	84638.98	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	84638.98	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	67966.48	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	67966.48	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	67966.48	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	67966.48	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	14938.19	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	14938.19	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	14824.18	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	14824.18	250.00

Sample Name	J8481-FS-D(3)	Injection Vial	27
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:16:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.54	13C3-PFBS	302.0 / 99.0	35694.06	232.25
PFBS_2	298.9 / 99.0	1.54	13C3-PFBS	302.0 / 99.0	35694.06	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	61004.51	250.00
PFHxA_2	313.0 / 119.0	1.86	13C5-PFHxA	318.0 / 273.0	61004.51	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	74549.11	250.00
PFHpA_2	363.0 / 169.0	2.25	13C4-PFHpA	367.0 / 322.0	74549.11	250.00
PFHxS_1	399.0 / 80.0	2.29	13C3-PFHxS	402.0 / 99.0	23457.50	236.50
PFHxS_2	399.0 / 99.0	2.29	13C3-PFHxS	402.0 / 99.0	23457.50	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	74238.28	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	74238.28	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	83287.71	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	83287.71	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	26154.73	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	26154.73	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	90280.25	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	90280.25	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	93390.05	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	93390.05	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	93272.16	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	93272.16	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	71398.60	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	71398.60	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	71398.60	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	71398.60	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	14773.81	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	14773.81	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	17728.48	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	17728.48	250.00

Sample Name	J8481-FS-D(5)	Injection Vial	28
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:27:34	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	33325.78	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	33325.78	232.25
PFHxA_1	313.0 / 269.0	1.85	13C5-PFHxA	318.0 / 273.0	65217.01	250.00
PFHxA_2	313.0 / 119.0	1.85	13C5-PFHxA	318.0 / 273.0	65217.01	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	74871.95	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	74871.95	250.00
PFHxS_1	399.0 / 80.0	2.28	13C3-PFHxS	402.0 / 99.0	26558.83	236.50
PFHxS_2	399.0 / 99.0	2.28	13C3-PFHxS	402.0 / 99.0	26558.83	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	83678.67	250.00
PFOA_2	413.0 / 169.0	2.66	13C8-PFOA	421.0 / 376.0	83678.67	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	95218.42	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	95218.42	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	27271.90	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	27271.90	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	103558.75	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	103558.75	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	101782.96	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	101782.96	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	98261.59	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	98261.59	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	77580.47	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	77580.47	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	77580.47	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	77580.47	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16196.31	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16196.31	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16622.68	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16622.68	250.00

Sample Name	J8482-FS(0)	Injection Vial	31
Sample ID	VC-AQ-FB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:00:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.55	13C3-PFBS	302.0 / 99.0	22294.06	232.25
PFBS_2	298.9 / 99.0	1.55	13C3-PFBS	302.0 / 99.0	22294.06	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	54602.04	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	54602.04	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	56614.77	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	56614.77	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	22535.20	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	22535.20	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	80459.70	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	80459.70	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	72219.83	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	72219.83	250.00
PFOS_1	499.0 / 80.0	3.02	13C8-PFOS	507.0 / 99.0	24756.17	239.25
PFOS_2	499.0 / 99.0	3.07	13C8-PFOS	507.0 / 99.0	24756.17	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	79340.51	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	79340.51	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	81669.97	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	81669.97	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	80438.31	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	80438.31	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	61842.35	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	61842.35	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	61842.35	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	61842.35	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	13989.35	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	13989.35	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16102.93	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16102.93	250.00

Sample Name	J8483-FS(0)	Injection Vial	32
Sample ID	VC-AQ-EB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:11:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.53	13C3-PFBS	302.0 / 99.0	33099.44	232.25
PFBS_2	298.9 / 99.0	1.82	13C3-PFBS	302.0 / 99.0	33099.44	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	61024.53	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	61024.53	250.00
PFHpA_1	363.0 / 319.0	2.26	13C4-PFHpA	367.0 / 322.0	69438.38	250.00
PFHpA_2	363.0 / 169.0	2.19	13C4-PFHpA	367.0 / 322.0	69438.38	250.00
PFHxS_1	399.0 / 80.0	2.28	13C3-PFHxS	402.0 / 99.0	24873.37	236.50
PFHxS_2	399.0 / 99.0	2.28	13C3-PFHxS	402.0 / 99.0	24873.37	236.50
PFOA_1	413.0 / 369.0	2.67	13C8-PFOA	421.0 / 376.0	96739.82	250.00
PFOA_2	413.0 / 169.0	2.67	13C8-PFOA	421.0 / 376.0	96739.82	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	93810.17	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	93810.17	250.00
PFOS_1	499.0 / 80.0	3.06	13C8-PFOS	507.0 / 99.0	29902.66	239.25
PFOS_2	499.0 / 99.0	3.06	13C8-PFOS	507.0 / 99.0	29902.66	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	106177.28	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	106177.28	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	106964.98	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	106964.98	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	100858.32	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	100858.32	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	72154.94	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	72154.94	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	72154.94	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	72154.94	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	21509.56	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	21509.56	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	19479.64	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	19479.64	250.00

Sample Name	KB80 IB	Injection Vial	9
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T21:02:57	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	96280.28	250.00
d3-MeFOSAA	573.0 / 419.0	3.61	13C4-PFOS	503.0 / 99.0	29371.12	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	29371.12	239.25
13C5-PFHxA	318.0 / 273.0	1.87	13C2-PFOA	415.0 / 370.0	85730.94	250.00
13C4-PFHpA	367.0 / 322.0	2.28	13C2-PFOA	415.0 / 370.0	85730.94	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	85730.94	250.00
13C9-PFNA	472.0 / 427.0	3.09	13C2-PFOA	415.0 / 370.0	85730.94	250.00
13C6-PFDA	519.0 / 474.0	3.45	13C2-PFDA	515.0 / 470.0	96280.28	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	96280.28	250.00
13C2-PFTeDA	715.0 / 670.0	4.54	13C2-PFDA	515.0 / 470.0	96280.28	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	29371.12	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	29371.12	239.25
13C8-PFOS	507.0 / 99.0	3.09	13C4-PFOS	503.0 / 99.0	29371.12	239.25

Sample Name	CR900PB-FS(0)	Injection Vial	31
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:12:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	105431.22	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	29550.22	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	29550.22	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	83649.12	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	83649.12	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	83649.12	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	83649.12	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	105431.22	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	105431.22	250.00
13C2-PFTeDA	715.0 / 670.0	4.50	13C2-PFDA	515.0 / 470.0	105431.22	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	29550.22	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	29550.22	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	29550.22	239.25



Sample Name	CR901LCS-FS(0)	Injection Vial	32
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:23:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	87152.24	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	28315.56	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	28315.56	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	68361.03	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	68361.03	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	68361.03	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	68361.03	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	87152.24	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	87152.24	250.00
13C2-PFTeDA	715.0 / 670.0	4.50	13C2-PFDA	515.0 / 470.0	87152.24	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	28315.56	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	28315.56	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	28315.56	239.25

Sample Name	J8455-FS(0)	Injection Vial	33
Sample ID	VC-SO-FB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:34:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	96594.09	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	28355.78	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	28355.78	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	82866.34	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	82866.34	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	82866.34	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	82866.34	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	96594.09	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	96594.09	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	96594.09	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	28355.78	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	28355.78	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	28355.78	239.25

Sample Name	J8456-FS(0)	Injection Vial	34
Sample ID	VC-SO-EB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:45:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	101761.01	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	32239.94	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	32239.94	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	87042.51	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	87042.51	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	87042.51	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	87042.51	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	101761.01	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	101761.01	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	101761.01	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	32239.94	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	32239.94	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	32239.94	239.25

Sample Name	J8457-FS(0)	Injection Vial	35
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:56:20	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	87727.60	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	13895.54	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	13895.54	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	208873.01	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	208873.01	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	208873.01	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	208873.01	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	87727.60	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	87727.60	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	87727.60	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	13895.54	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	13895.54	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	13895.54	239.25

Sample Name	J8457-FS-D(3)	Injection Vial	36
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:07:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	109794.49	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	30188.74	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	30188.74	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	90316.74	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	90316.74	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	90316.74	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	90316.74	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	109794.49	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	109794.49	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	109794.49	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	30188.74	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	30188.74	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	30188.74	239.25

Sample Name	J8457-FS-D(5)	Injection Vial	37
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:18:02	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	99940.32	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	25606.40	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	25606.40	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	84321.82	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	84321.82	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	84321.82	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	84321.82	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	99940.32	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	99940.32	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	99940.32	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	25606.40	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	25606.40	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	25606.40	239.25

Sample Name	J8457-FS-D(7)	Injection Vial	38
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:28:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	105726.49	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	29922.91	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	29922.91	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	92612.85	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	92612.85	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	92612.85	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	92612.85	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	105726.49	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	105726.49	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	105726.49	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	29922.91	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	29922.91	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	29922.91	239.25

Sample Name	J8458-FS(0)	Injection Vial	41
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:01:33	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	98815.08	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	19798.46	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	19798.46	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	112346.60	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	112346.60	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	112346.60	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	112346.60	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	98815.08	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	98815.08	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	98815.08	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	19798.46	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	19798.46	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	19798.46	239.25



Sample Name	J8458-FS-D(3)	Injection Vial	42
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:12:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	104392.22	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	31547.70	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	31547.70	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	89070.74	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	89070.74	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	89070.74	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	89070.74	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	104392.22	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	104392.22	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	104392.22	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	31547.70	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	31547.70	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	31547.70	239.25

Sample Name	J8458-FS-D(5)	Injection Vial	43
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:23:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	101346.07	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	32587.00	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	32587.00	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	88902.14	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	88902.14	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	88902.14	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	88902.14	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	101346.07	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	101346.07	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	101346.07	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	32587.00	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	32587.00	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	32587.00	239.25

Sample Name	J8459-FS(0)	Injection Vial	44
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:34:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	102841.71	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	25667.32	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	25667.32	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	266821.24	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	266821.24	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	266821.24	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	266821.24	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	102841.71	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	102841.71	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	102841.71	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	25667.32	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	25667.32	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	25667.32	239.25

Sample Name	J8459-FS-D(3)	Injection Vial	45
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:44:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	106889.04	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	30736.08	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	30736.08	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	91691.26	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	91691.26	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	91691.26	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	91691.26	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	106889.04	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	106889.04	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	106889.04	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	30736.08	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	30736.08	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	30736.08	239.25

Sample Name	J8459-FS-D(5)	Injection Vial	46
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:55:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	98042.39	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	30220.89	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	30220.89	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	82594.01	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	82594.01	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	82594.01	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	82594.01	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	98042.39	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	98042.39	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	98042.39	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	30220.89	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	30220.89	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	30220.89	239.25

Sample Name	J8460-FS(0)	Injection Vial	47
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:06:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	85957.74	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	15355.12	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	15355.12	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	187610.51	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	187610.51	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	187610.51	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	187610.51	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	85957.74	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	85957.74	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	85957.74	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	15355.12	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	15355.12	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	15355.12	239.25

Sample Name	J8460-FS-D(3)	Injection Vial	48
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:17:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	106873.68	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	25384.81	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	25384.81	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	81628.63	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	81628.63	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	81628.63	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	81628.63	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	106873.68	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	106873.68	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	106873.68	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	25384.81	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	25384.81	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	25384.81	239.25

Sample Name	J8460-FS-D(5)	Injection Vial	49
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:28:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	97058.03	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	24818.35	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	24818.35	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	75938.53	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	75938.53	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	75938.53	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	75938.53	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	97058.03	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	97058.03	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	97058.03	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	24818.35	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	24818.35	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	24818.35	239.25



Sample Name	J8461-FS(0)	Injection Vial	52
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:01:04	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	91022.01	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	15869.01	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	15869.01	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	190698.68	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	190698.68	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	190698.68	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	190698.68	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	91022.01	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	91022.01	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	91022.01	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	15869.01	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	15869.01	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	15869.01	239.25

Sample Name	J8461-FS-D(3)	Injection Vial	53
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:11:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	104903.90	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	24489.04	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	24489.04	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	87764.32	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	87764.32	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	87764.32	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	87764.32	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	104903.90	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	104903.90	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	104903.90	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	24489.04	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	24489.04	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	24489.04	239.25

Sample Name	J8461-FS-D(5)	Injection Vial	54
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:22:47	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	100932.26	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	28944.65	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	28944.65	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	85715.23	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	85715.23	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	85715.23	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	85715.23	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	100932.26	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	100932.26	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	100932.26	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	28944.65	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	28944.65	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	28944.65	239.25

Sample Name	J8462-FS(0)	Injection Vial	1
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:33:39	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	87725.86	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	11974.38	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	11974.38	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	114127.42	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	114127.42	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	114127.42	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	114127.42	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	87725.86	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	87725.86	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	87725.86	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	11974.38	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	11974.38	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	11974.38	239.25

Sample Name	J8462-FS-D(3)	Injection Vial	2
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:44:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	103179.98	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	24893.30	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	24893.30	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	85454.36	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	85454.36	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	85454.36	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	85454.36	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	103179.98	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	103179.98	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	103179.98	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	24893.30	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	24893.30	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	24893.30	239.25

Sample Name	J8462-FS-D(5)	Injection Vial	3
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:55:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	102031.69	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	28019.07	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	28019.07	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	86140.90	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	86140.90	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	86140.90	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	86140.90	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	102031.69	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	102031.69	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	102031.69	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	28019.07	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	28019.07	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	28019.07	239.25

Sample Name	J8463MS-FS(0)	Injection Vial	4
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:06:18	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	76115.48	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	12977.54	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	12977.54	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	82930.41	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	82930.41	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	82930.41	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	82930.41	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	76115.48	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	76115.48	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	76115.48	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	12977.54	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	12977.54	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	12977.54	239.25

Sample Name	J8463MS-FS-D(3)	Injection Vial	5
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:17:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	104402.09	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	27359.76	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	27359.76	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	85221.07	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	85221.07	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	85221.07	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	85221.07	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	104402.09	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	104402.09	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	104402.09	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	27359.76	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	27359.76	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	27359.76	239.25



Sample Name	J8463MS-FS-D(5)	Injection Vial	6
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:28:05	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	102356.74	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	32757.86	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	32757.86	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	87295.75	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	87295.75	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	87295.75	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	87295.75	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	102356.74	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	102356.74	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	102356.74	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	32757.86	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	32757.86	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	32757.86	239.25

Sample Name	J8464MSD-FS(0)	Injection Vial	9
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:00:44	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	93141.21	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	15477.58	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	15477.58	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	99488.10	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	99488.10	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	99488.10	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	99488.10	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	93141.21	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	93141.21	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	93141.21	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	15477.58	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	15477.58	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	15477.58	239.25

Sample Name	J8464MSD-FS-D(3)	Injection Vial	10
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:11:37	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	99420.27	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	26708.44	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	26708.44	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	83543.48	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	83543.48	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	83543.48	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	83543.48	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	99420.27	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	99420.27	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	99420.27	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	26708.44	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	26708.44	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	26708.44	239.25

Sample Name	J8464MSD-FS-D(5)	Injection Vial	11
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:22:30	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	106104.65	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	32798.98	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	32798.98	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	86845.09	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	86845.09	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	86845.09	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	86845.09	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	106104.65	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	106104.65	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	106104.65	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	32798.98	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	32798.98	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	32798.98	239.25

Sample Name	J8477-FS(0)	Injection Vial	12
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:33:23	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	104476.56	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	15648.53	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	15648.53	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	176668.23	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	176668.23	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	176668.23	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	176668.23	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	104476.56	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	104476.56	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	104476.56	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	15648.53	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	15648.53	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	15648.53	239.25

Sample Name	J8477-FS-D(3)	Injection Vial	13
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:44:17	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	107910.85	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	27813.68	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	27813.68	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	97318.12	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	97318.12	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	97318.12	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	97318.12	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	107910.85	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	107910.85	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	107910.85	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	27813.68	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	27813.68	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	27813.68	239.25

Sample Name	J8477-FS-D(5)	Injection Vial	14
Sample ID	VC-PM367-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T07:55:10	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	97306.42	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	29995.17	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	29995.17	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	80663.77	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	80663.77	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	80663.77	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	80663.77	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	97306.42	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	97306.42	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	97306.42	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	29995.17	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	29995.17	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	29995.17	239.25

Sample Name	J8478-FS(0)	Injection Vial	15
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:06:03	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	99922.13	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	20810.29	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	20810.29	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	237239.49	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	237239.49	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	237239.49	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	237239.49	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	99922.13	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	99922.13	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	99922.13	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	20810.29	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	20810.29	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	20810.29	239.25



Sample Name	J8478-FS-D(3)	Injection Vial	16
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:16:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	92190.46	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	29008.63	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	29008.63	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	98789.39	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	98789.39	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	98789.39	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	98789.39	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	92190.46	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	92190.46	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	92190.46	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	29008.63	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	29008.63	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	29008.63	239.25

Sample Name	J8478-FS-D(5)	Injection Vial	17
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:27:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	115921.79	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	34663.71	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	34663.71	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	92883.50	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	92883.50	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	92883.50	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	92883.50	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	115921.79	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	115921.79	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	115921.79	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	34663.71	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	34663.71	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	34663.71	239.25

Sample Name	J8479-FS(0)	Injection Vial	20
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:00:25	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.01	13C2-PFDA	515.0 / 470.0	98790.03	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	18742.70	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	18742.70	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	236045.41	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	236045.41	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	236045.41	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	236045.41	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	98790.03	250.00
13C7-PFUnA	570.0 / 525.0	3.72	13C2-PFDA	515.0 / 470.0	98790.03	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	98790.03	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	18742.70	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	18742.70	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	18742.70	239.25

Sample Name	J8479-FS-D(3)	Injection Vial	21
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:11:19	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	102395.45	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	26494.97	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	26494.97	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	93979.51	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	93979.51	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	93979.51	250.00
13C9-PFNA	472.0 / 427.0	3.05	13C2-PFOA	415.0 / 370.0	93979.51	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	102395.45	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	102395.45	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	102395.45	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	26494.97	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	26494.97	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	26494.97	239.25

Sample Name	J8479-FS-D(5)	Injection Vial	22
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:22:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	112236.28	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	33197.15	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	33197.15	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	92133.18	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	92133.18	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	92133.18	250.00
13C9-PFNA	472.0 / 427.0	3.05	13C2-PFOA	415.0 / 370.0	92133.18	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	112236.28	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	112236.28	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	112236.28	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	33197.15	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	33197.15	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	33197.15	239.25

Sample Name	J8480-FS(0)	Injection Vial	23
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:33:08	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	105966.79	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	18649.40	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	18649.40	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	246310.08	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	246310.08	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	246310.08	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	246310.08	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	105966.79	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	105966.79	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	105966.79	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	18649.40	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	18649.40	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	18649.40	239.25

Sample Name	J8480-FS-D(3)	Injection Vial	24
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:44:00	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	105350.45	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	24653.14	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	24653.14	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	104693.97	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	104693.97	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	104693.97	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	104693.97	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	105350.45	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	105350.45	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	105350.45	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	24653.14	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	24653.14	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	24653.14	239.25

Sample Name	J8480-FS-D(5)	Injection Vial	25
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:54:54	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	100274.81	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	29606.27	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	29606.27	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	80473.27	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	80473.27	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	80473.27	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	80473.27	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	100274.81	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	100274.81	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	100274.81	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	29606.27	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	29606.27	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	29606.27	239.25



Sample Name	J8481-FS(0)	Injection Vial	26
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:05:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	95767.06	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	20709.58	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	20709.58	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	150042.17	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	150042.17	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	150042.17	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	150042.17	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	95767.06	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	95767.06	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	95767.06	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	20709.58	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	20709.58	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	20709.58	239.25

Sample Name	J8481-FS-D(3)	Injection Vial	27
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:16:41	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.02	13C2-PFDA	515.0 / 470.0	91013.71	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	24669.69	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	24669.69	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	86685.44	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	86685.44	250.00
13C8-PFOA	421.0 / 376.0	2.67	13C2-PFOA	415.0 / 370.0	86685.44	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	86685.44	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	91013.71	250.00
13C7-PFUnA	570.0 / 525.0	3.73	13C2-PFDA	515.0 / 470.0	91013.71	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	91013.71	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	24669.69	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	24669.69	239.25
13C8-PFOS	507.0 / 99.0	3.06	13C4-PFOS	503.0 / 99.0	24669.69	239.25

Sample Name	J8481-FS-D(5)	Injection Vial	28
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:27:34	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.01	13C2-PFDA	515.0 / 470.0	100519.41	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	28122.72	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	28122.72	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	86863.45	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	86863.45	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	86863.45	250.00
13C9-PFNA	472.0 / 427.0	3.06	13C2-PFOA	415.0 / 370.0	86863.45	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	100519.41	250.00
13C7-PFUnA	570.0 / 525.0	3.72	13C2-PFDA	515.0 / 470.0	100519.41	250.00
13C2-PFTeDA	715.0 / 670.0	4.48	13C2-PFDA	515.0 / 470.0	100519.41	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	28122.72	239.25
13C3-PFHxS	402.0 / 99.0	2.27	13C4-PFOS	503.0 / 99.0	28122.72	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	28122.72	239.25

Sample Name	J8482-FS(0)	Injection Vial	31
Sample ID	VC-AQ-FB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:00:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.01	13C2-PFDA	515.0 / 470.0	91541.62	250.00
d3-MeFOSAA	573.0 / 419.0	3.56	13C4-PFOS	503.0 / 99.0	25408.36	239.25
d5-EtFOSAA	589.0 / 419.0	3.73	13C4-PFOS	503.0 / 99.0	25408.36	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	76643.31	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	76643.31	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	76643.31	250.00
13C9-PFNA	472.0 / 427.0	3.05	13C2-PFOA	415.0 / 370.0	76643.31	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	91541.62	250.00
13C7-PFUnA	570.0 / 525.0	3.72	13C2-PFDA	515.0 / 470.0	91541.62	250.00
13C2-PFTeDA	715.0 / 670.0	4.47	13C2-PFDA	515.0 / 470.0	91541.62	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	25408.36	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	25408.36	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	25408.36	239.25

Sample Name	J8483-FS(0)	Injection Vial	32
Sample ID	VC-AQ-EB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:11:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.01	13C2-PFDA	515.0 / 470.0	128815.26	250.00
d3-MeFOSAA	573.0 / 419.0	3.57	13C4-PFOS	503.0 / 99.0	36524.02	239.25
d5-EtFOSAA	589.0 / 419.0	3.72	13C4-PFOS	503.0 / 99.0	36524.02	239.25
13C5-PFHxA	318.0 / 273.0	1.84	13C2-PFOA	415.0 / 370.0	103622.36	250.00
13C4-PFHpA	367.0 / 322.0	2.25	13C2-PFOA	415.0 / 370.0	103622.36	250.00
13C8-PFOA	421.0 / 376.0	2.66	13C2-PFOA	415.0 / 370.0	103622.36	250.00
13C9-PFNA	472.0 / 427.0	3.05	13C2-PFOA	415.0 / 370.0	103622.36	250.00
13C6-PFDA	519.0 / 474.0	3.41	13C2-PFDA	515.0 / 470.0	128815.26	250.00
13C7-PFUnA	570.0 / 525.0	3.72	13C2-PFDA	515.0 / 470.0	128815.26	250.00
13C2-PFTeDA	715.0 / 670.0	4.47	13C2-PFDA	515.0 / 470.0	128815.26	250.00
13C3-PFBS	302.0 / 99.0	1.52	13C4-PFOS	503.0 / 99.0	36524.02	239.25
13C3-PFHxS	402.0 / 99.0	2.28	13C4-PFOS	503.0 / 99.0	36524.02	239.25
13C8-PFOS	507.0 / 99.0	3.05	13C4-PFOS	503.0 / 99.0	36524.02	239.25

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:27:43	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	22650.61	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	22650.61	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	53978.91	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	53978.91	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	59454.32	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	59454.32	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	20402.34	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	20402.34	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	73559.14	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	73559.14	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	82966.73	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	82966.73	250.00
PFOS_1	499.0 / 80.0	N/A	13C8-PFOS	507.0 / 99.0	27675.45	239.25
PFOS_2	499.0 / 99.0	N/A	13C8-PFOS	507.0 / 99.0	27675.45	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	81246.25	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	81246.25	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	77126.81	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	77126.81	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	83378.86	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	83378.86	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	68651.72	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	68651.72	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	68651.72	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	68651.72	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	9065.50	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	9065.50	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	11404.63	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	11404.63	250.00

Sample Name	J8464MSD-FS-D(7)	Injection Vial	12
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:27:19	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	23632.76	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	23632.76	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	55196.69	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	55196.69	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	59146.07	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	59146.07	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	21427.34	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	21427.34	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	78833.61	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	78833.61	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	83983.57	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	83983.57	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	26224.42	239.25
PFOS_2	499.0 / 99.0	3.09	13C8-PFOS	507.0 / 99.0	26224.42	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	85652.71	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	85652.71	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	81584.52	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	81584.52	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	81600.45	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	81600.45	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	71944.93	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	71944.93	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	71944.93	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	71944.93	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	10520.90	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	10520.90	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	10385.15	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	10385.15	250.00

Sample Name	J8462-FS-D(7)	Injection Vial	14
Sample ID	VC-CS12-SB02-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:59:57	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	26007.90	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	26007.90	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	54467.55	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	54467.55	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	63342.14	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	63342.14	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	20294.36	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	20294.36	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	79933.96	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	79933.96	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	84246.37	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	84246.37	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	24263.71	239.25
PFOS_2	499.0 / 99.0	3.09	13C8-PFOS	507.0 / 99.0	24263.71	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	85851.35	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	85851.35	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	78150.96	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	78150.96	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	80996.83	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	80996.83	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	69732.67	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	69732.67	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	69732.67	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	69732.67	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	9317.64	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	9317.64	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	10893.39	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	10893.39	250.00



Sample Name	J8477-FS-D(7)	Injection Vial	15
Sample ID	VC-CS10-SS03-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:10:49	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	24183.07	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	24183.07	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	56104.76	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	56104.76	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	59449.85	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	59449.85	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	21713.42	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	21713.42	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	72880.91	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	72880.91	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	81659.09	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	81659.09	250.00
PFOS_1	499.0 / 80.0	3.08	13C8-PFOS	507.0 / 99.0	24853.67	239.25
PFOS_2	499.0 / 99.0	3.09	13C8-PFOS	507.0 / 99.0	24853.67	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	81365.02	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	81365.02	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	80411.15	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	80411.15	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	80068.44	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	80068.44	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	73018.09	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	73018.09	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	73018.09	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	73018.09	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	10970.43	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	10970.43	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	12246.40	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	12246.40	250.00

Sample Name	J8478-FS-D(7)	Injection Vial	16
Sample ID	VC-CS10-SB03-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:21:41	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	24686.83	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	24686.83	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	53650.43	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	53650.43	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	60911.87	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	60911.87	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	19718.65	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	19718.65	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	76419.33	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	76419.33	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	76724.52	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	76724.52	250.00
PFOS_1	499.0 / 80.0	3.09	13C8-PFOS	507.0 / 99.0	23547.19	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	23547.19	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	86218.18	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	86218.18	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	70816.72	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	70816.72	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	84777.44	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	84777.44	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	70023.81	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	70023.81	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	70023.81	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	70023.81	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	10184.67	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	10184.67	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	12223.15	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	12223.15	250.00

Sample Name	J8479-FS-D(7)	Injection Vial	17
Sample ID	VC-CS10-SB03-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:32:32	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	26361.12	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	26361.12	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	56478.04	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	56478.04	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	68493.28	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	68493.28	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	21804.34	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	21804.34	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	85625.08	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	85625.08	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	84291.14	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	84291.14	250.00
PFOS_1	499.0 / 80.0	3.01	13C8-PFOS	507.0 / 99.0	25309.74	239.25
PFOS_2	499.0 / 99.0	3.09	13C8-PFOS	507.0 / 99.0	25309.74	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	89295.38	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	89295.38	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	86260.22	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	86260.22	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	87989.24	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	87989.24	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	74876.57	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	74876.57	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	74876.57	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	74876.57	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	10783.94	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	10783.94	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	13541.16	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	13541.16	250.00

Sample Name	J8480-FS-D(7)	Injection Vial	18
Sample ID	VC-CS10-SS04-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:43:23	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	22372.67	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	22372.67	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	47562.67	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	47562.67	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	54081.13	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	54081.13	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	19238.97	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	19238.97	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	68054.96	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	68054.96	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	69689.62	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	69689.62	250.00
PFOS_1	499.0 / 80.0	3.01	13C8-PFOS	507.0 / 99.0	21296.20	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	21296.20	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	75324.67	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	75324.67	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	70772.47	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	70772.47	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	71893.76	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	71893.76	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	64129.46	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	64129.46	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	64129.46	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	64129.46	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	11691.80	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	11691.80	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	10670.77	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	10670.77	250.00

Sample Name	J8481-FS-D(7)	Injection Vial	19
Sample ID	VC-CS10-SB04-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:54:14	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	25508.44	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	25508.44	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	54868.74	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	54868.74	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	64374.84	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	64374.84	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	22372.18	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	22372.18	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	76020.03	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	76020.03	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	77203.36	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	77203.36	250.00
PFOS_1	499.0 / 80.0	N/A	13C8-PFOS	507.0 / 99.0	23397.64	239.25
PFOS_2	499.0 / 99.0	N/A	13C8-PFOS	507.0 / 99.0	23397.64	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	79470.37	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	79470.37	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	75094.20	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	75094.20	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	80975.39	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	80975.39	250.00
PFTeDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	69606.07	250.00
PFTeDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	69606.07	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	69606.07	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	69606.07	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	11022.61	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	11022.61	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	12093.61	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	12093.61	250.00

Sample Name	J8461-FS-D(7)	Injection Vial	21
Sample ID	VC-CS12-SS02-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:15:59	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	22476.94	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	22476.94	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	50245.54	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	50245.54	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	60161.14	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	60161.14	250.00
PFHxS_1	399.0 / 80.0	2.30	13C3-PFHxS	402.0 / 99.0	18225.27	236.50
PFHxS_2	399.0 / 99.0	2.30	13C3-PFHxS	402.0 / 99.0	18225.27	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	73950.79	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	73950.79	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	73838.48	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	73838.48	250.00
PFOS_1	499.0 / 80.0	3.01	13C8-PFOS	507.0 / 99.0	24139.97	239.25
PFOS_2	499.0 / 99.0	3.08	13C8-PFOS	507.0 / 99.0	24139.97	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	79293.04	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	79293.04	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	74872.77	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	74872.77	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	83377.86	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	83377.86	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	67118.07	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	67118.07	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	67118.07	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	67118.07	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	12292.55	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	12292.55	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	12236.24	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	12236.24	250.00

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:27:43	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.08	13C2-PFDA	515.0 / 470.0	83787.58	250.00
d3-MeFOSAA	573.0 / 419.0	3.64	13C4-PFOS	503.0 / 99.0	28447.31	239.25
d5-EtFOSAA	589.0 / 419.0	3.80	13C4-PFOS	503.0 / 99.0	28447.31	239.25
13C5-PFHxA	318.0 / 273.0	1.89	13C2-PFOA	415.0 / 370.0	68811.37	250.00
13C4-PFHpA	367.0 / 322.0	2.30	13C2-PFOA	415.0 / 370.0	68811.37	250.00
13C8-PFOA	421.0 / 376.0	2.72	13C2-PFOA	415.0 / 370.0	68811.37	250.00
13C9-PFNA	472.0 / 427.0	3.12	13C2-PFOA	415.0 / 370.0	68811.37	250.00
13C6-PFDA	519.0 / 474.0	3.48	13C2-PFDA	515.0 / 470.0	83787.58	250.00
13C7-PFUnA	570.0 / 525.0	3.80	13C2-PFDA	515.0 / 470.0	83787.58	250.00
13C2-PFTeDA	715.0 / 670.0	4.56	13C2-PFDA	515.0 / 470.0	83787.58	250.00
13C3-PFBS	302.0 / 99.0	1.55	13C4-PFOS	503.0 / 99.0	28447.31	239.25
13C3-PFHxS	402.0 / 99.0	2.33	13C4-PFOS	503.0 / 99.0	28447.31	239.25
13C8-PFOS	507.0 / 99.0	3.11	13C4-PFOS	503.0 / 99.0	28447.31	239.25

Sample Name	J8464MSD-FS-D(7)	Injection Vial	12
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:27:19	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.04	13C2-PFDA	515.0 / 470.0	115171.03	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	32477.80	239.25
d5-EtFOSAA	589.0 / 419.0	3.76	13C4-PFOS	503.0 / 99.0	32477.80	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	95692.21	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	95692.21	250.00
13C8-PFOA	421.0 / 376.0	2.69	13C2-PFOA	415.0 / 370.0	95692.21	250.00
13C9-PFNA	472.0 / 427.0	3.08	13C2-PFOA	415.0 / 370.0	95692.21	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	115171.03	250.00
13C7-PFUnA	570.0 / 525.0	3.75	13C2-PFDA	515.0 / 470.0	115171.03	250.00
13C2-PFTeDA	715.0 / 670.0	4.50	13C2-PFDA	515.0 / 470.0	115171.03	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	32477.80	239.25
13C3-PFHxS	402.0 / 99.0	2.30	13C4-PFOS	503.0 / 99.0	32477.80	239.25
13C8-PFOS	507.0 / 99.0	3.08	13C4-PFOS	503.0 / 99.0	32477.80	239.25



Sample Name	J8462-FS-D(7)	Injection Vial	14
Sample ID	VC-CS12-SB02-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:59:57	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	101536.70	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	32100.45	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	32100.45	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	89269.66	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	89269.66	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	89269.66	250.00
13C9-PFNA	472.0 / 427.0	3.08	13C2-PFOA	415.0 / 370.0	89269.66	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	101536.70	250.00
13C7-PFUnA	570.0 / 525.0	3.75	13C2-PFDA	515.0 / 470.0	101536.70	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	101536.70	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	32100.45	239.25
13C3-PFHxS	402.0 / 99.0	2.30	13C4-PFOS	503.0 / 99.0	32100.45	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	32100.45	239.25

Sample Name	J8477-FS-D(7)	Injection Vial	15
Sample ID	VC-CS10-SS03-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:10:49	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	101173.42	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	28986.19	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	28986.19	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	82920.68	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	82920.68	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	82920.68	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	82920.68	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	101173.42	250.00
13C7-PFUnA	570.0 / 525.0	3.75	13C2-PFDA	515.0 / 470.0	101173.42	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	101173.42	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	28986.19	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	28986.19	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	28986.19	239.25

Sample Name	J8478-FS-D(7)	Injection Vial	16
Sample ID	VC-CS10-SB03-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:21:41	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	98726.98	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	30315.79	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	30315.79	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	88862.33	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	88862.33	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	88862.33	250.00
13C9-PFNA	472.0 / 427.0	3.08	13C2-PFOA	415.0 / 370.0	88862.33	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	98726.98	250.00
13C7-PFUnA	570.0 / 525.0	3.75	13C2-PFDA	515.0 / 470.0	98726.98	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	98726.98	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	30315.79	239.25
13C3-PFHxS	402.0 / 99.0	2.30	13C4-PFOS	503.0 / 99.0	30315.79	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	30315.79	239.25

Sample Name	J8479-FS-D(7)	Injection Vial	17
Sample ID	VC-CS10-SB03-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:32:32	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	106127.48	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	34208.22	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	34208.22	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	95761.40	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	95761.40	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	95761.40	250.00
13C9-PFNA	472.0 / 427.0	3.08	13C2-PFOA	415.0 / 370.0	95761.40	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	106127.48	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	106127.48	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	106127.48	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	34208.22	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	34208.22	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	34208.22	239.25

Sample Name	J8480-FS-D(7)	Injection Vial	18
Sample ID	VC-CS10-SS04-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:43:23	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	92936.13	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	27718.70	239.25
d5-EtFOSAA	589.0 / 419.0	3.75	13C4-PFOS	503.0 / 99.0	27718.70	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	75723.07	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	75723.07	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	75723.07	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	75723.07	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	92936.13	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	92936.13	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	92936.13	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	27718.70	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	27718.70	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	27718.70	239.25

Sample Name	J8481-FS-D(7)	Injection Vial	19
Sample ID	VC-CS10-SB04-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:54:14	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	102207.27	250.00
d3-MeFOSAA	573.0 / 419.0	3.59	13C4-PFOS	503.0 / 99.0	29368.27	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	29368.27	239.25
13C5-PFHxA	318.0 / 273.0	1.86	13C2-PFOA	415.0 / 370.0	88934.62	250.00
13C4-PFHpA	367.0 / 322.0	2.27	13C2-PFOA	415.0 / 370.0	88934.62	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	88934.62	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	88934.62	250.00
13C6-PFDA	519.0 / 474.0	3.43	13C2-PFDA	515.0 / 470.0	102207.27	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	102207.27	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	102207.27	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	29368.27	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	29368.27	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	29368.27	239.25

Sample Name	J8461-FS-D(7)	Injection Vial	21
Sample ID	VC-CS12-SS02-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:15:59	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C2-PFDoA	615.0 / 570.0	4.03	13C2-PFDA	515.0 / 470.0	102323.33	250.00
d3-MeFOSAA	573.0 / 419.0	3.58	13C4-PFOS	503.0 / 99.0	30218.25	239.25
d5-EtFOSAA	589.0 / 419.0	3.74	13C4-PFOS	503.0 / 99.0	30218.25	239.25
13C5-PFHxA	318.0 / 273.0	1.85	13C2-PFOA	415.0 / 370.0	82765.88	250.00
13C4-PFHpA	367.0 / 322.0	2.26	13C2-PFOA	415.0 / 370.0	82765.88	250.00
13C8-PFOA	421.0 / 376.0	2.68	13C2-PFOA	415.0 / 370.0	82765.88	250.00
13C9-PFNA	472.0 / 427.0	3.07	13C2-PFOA	415.0 / 370.0	82765.88	250.00
13C6-PFDA	519.0 / 474.0	3.42	13C2-PFDA	515.0 / 470.0	102323.33	250.00
13C7-PFUnA	570.0 / 525.0	3.74	13C2-PFDA	515.0 / 470.0	102323.33	250.00
13C2-PFTeDA	715.0 / 670.0	4.49	13C2-PFDA	515.0 / 470.0	102323.33	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	30218.25	239.25
13C3-PFHxS	402.0 / 99.0	2.29	13C4-PFOS	503.0 / 99.0	30218.25	239.25
13C8-PFOS	507.0 / 99.0	3.07	13C4-PFOS	503.0 / 99.0	30218.25	239.25

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:53:06	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	1.56	13C3-PFBS	302.0 / 99.0	26782.63	232.25
PFBS_2	298.9 / 99.0	1.55	13C3-PFBS	302.0 / 99.0	26782.63	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	57267.01	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	57267.01	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	69120.99	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	69120.99	250.00
PFHxS_1	399.0 / 80.0	N/A	13C3-PFHxS	402.0 / 99.0	22917.29	236.50
PFHxS_2	399.0 / 99.0	N/A	13C3-PFHxS	402.0 / 99.0	22917.29	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	79590.53	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	79590.53	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	86285.66	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	86285.66	250.00
PFOS_1	499.0 / 80.0	N/A	13C8-PFOS	507.0 / 99.0	24096.71	239.25
PFOS_2	499.0 / 99.0	N/A	13C8-PFOS	507.0 / 99.0	24096.71	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	84505.89	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	84505.89	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	80716.26	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	80716.26	250.00
PFDaA_1	613.0 / 569.0	N/A	13C2-PFDaA	615.0 / 570.0	91279.74	250.00
PFDaA_2	613.0 / 319.0	N/A	13C2-PFDaA	615.0 / 570.0	91279.74	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	78724.63	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78724.63	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	78724.63	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	78724.63	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	15475.34	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	15475.34	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	13889.61	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	13889.61	250.00
PFBA	213.0 / 169.0	N/A	13C4-PFBA	217.0 / 172.0	75498.27	250.00
PFPeA	263.0 / 219.0	N/A	13C5-PFPeA	268.0 / 223.0	70342.43	250.00
PFHpS_1	449.0 / 80.0	N/A	13C8-PFOA	421.0 / 376.0	79590.53	250.00
PFHpS_2	449.0 / 99.0	N/A	13C8-PFOA	421.0 / 376.0	79590.53	250.00
PFDS_1	599.0 / 80.0	N/A	13C7-PFUnA	570.0 / 525.0	80716.26	250.00
PFDS_2	599.0 / 99.0	N/A	13C7-PFUnA	570.0 / 525.0	80716.26	250.00
4:2FTS_1	327.0 / 307.0	N/A	13C2-4:2FTS	329.0 / 81.0	7266.09	233.75
4:2FTS_2	327.0 / 80.0	N/A	13C2-4:2FTS	329.0 / 81.0	7266.09	233.75
6:2FTS_1	427.0 / 407.0	N/A	13C2-6:2FTS	429.0 / 81.0	12827.09	237.25
6:2FTS_2	427.0 / 81.0	N/A	13C2-6:2FTS	429.0 / 81.0	12827.09	237.25
8:2FTS_1	527.0 / 507.0	N/A	13C2-8:2 FTS	529.0 / 81.0	13809.10	239.50
8:2FTS_2	527.0 / 487.0	N/A	13C2-8:2 FTS	529.0 / 81.0	13809.10	239.50
PFPeS_1	349.0 / 99.0	N/A	13C5-PFHxA	318.0 / 273.0	57267.01	250.00
PFPeS_2	349.0 / 80.0	N/A	13C5-PFHxA	318.0 / 273.0	57267.01	250.00
PFNS_1	549.0 / 99.0	N/A	13C6-PFDA	519.0 / 474.0	84505.89	250.00
PFNS_2	549.0 / 80.0	N/A	13C6-PFDA	519.0 / 474.0	84505.89	250.00



Sample Name	J8460-FS-D(9)	Injection Vial	4
Sample ID		Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T19:14:54	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
PFBS_1	298.9 / 80.0	N/A	13C3-PFBS	302.0 / 99.0	28318.52	232.25
PFBS_2	298.9 / 99.0	N/A	13C3-PFBS	302.0 / 99.0	28318.52	232.25
PFHxA_1	313.0 / 269.0	N/A	13C5-PFHxA	318.0 / 273.0	62493.86	250.00
PFHxA_2	313.0 / 119.0	N/A	13C5-PFHxA	318.0 / 273.0	62493.86	250.00
PFHpA_1	363.0 / 319.0	N/A	13C4-PFHpA	367.0 / 322.0	70005.17	250.00
PFHpA_2	363.0 / 169.0	N/A	13C4-PFHpA	367.0 / 322.0	70005.17	250.00
PFHxS_1	399.0 / 80.0	2.32	13C3-PFHxS	402.0 / 99.0	23618.69	236.50
PFHxS_2	399.0 / 99.0	2.32	13C3-PFHxS	402.0 / 99.0	23618.69	236.50
PFOA_1	413.0 / 369.0	N/A	13C8-PFOA	421.0 / 376.0	85550.58	250.00
PFOA_2	413.0 / 169.0	N/A	13C8-PFOA	421.0 / 376.0	85550.58	250.00
PFNA_1	463.0 / 419.0	N/A	13C9-PFNA	472.0 / 427.0	97318.43	250.00
PFNA_2	463.0 / 219.0	N/A	13C9-PFNA	472.0 / 427.0	97318.43	250.00
PFOS_1	499.0 / 80.0	N/A	13C8-PFOS	507.0 / 99.0	27330.61	239.25
PFOS_2	499.0 / 99.0	N/A	13C8-PFOS	507.0 / 99.0	27330.61	239.25
PFDA_1	513.0 / 469.0	N/A	13C6-PFDA	519.0 / 474.0	91342.98	250.00
PFDA_2	513.0 / 219.0	N/A	13C6-PFDA	519.0 / 474.0	91342.98	250.00
PFUnA_1	563.0 / 519.0	N/A	13C7-PFUnA	570.0 / 525.0	86562.80	250.00
PFUnA_2	563.0 / 269.0	N/A	13C7-PFUnA	570.0 / 525.0	86562.80	250.00
PFDoA_1	613.0 / 569.0	N/A	13C2-PFDoA	615.0 / 570.0	101888.11	250.00
PFDoA_2	613.0 / 319.0	N/A	13C2-PFDoA	615.0 / 570.0	101888.11	250.00
PFTrDA_1	663.0 / 619.0	N/A	13C2-PFTeDA	715.0 / 670.0	88387.86	250.00
PFTrDA_2	663.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	88387.86	250.00
PFTeDA_1	713.0 / 669.0	N/A	13C2-PFTeDA	715.0 / 670.0	88387.86	250.00
PFTeDA_2	713.0 / 169.0	N/A	13C2-PFTeDA	715.0 / 670.0	88387.86	250.00
NMeFOSAA_1	570.0 / 419.0	N/A	d3-MeFOSAA	573.0 / 419.0	16407.40	250.00
NMeFOSAA_2	570.0 / 512.0	N/A	d3-MeFOSAA	573.0 / 419.0	16407.40	250.00
NEtFOSAA_1	584.0 / 419.0	N/A	d5-EtFOSAA	589.0 / 419.0	16450.39	250.00
NEtFOSAA_2	584.0 / 483.0	N/A	d5-EtFOSAA	589.0 / 419.0	16450.39	250.00
PFBA	213.0 / 169.0	N/A	13C4-PFBA	217.0 / 172.0	79360.27	250.00
PFPeA	263.0 / 219.0	N/A	13C5-PFPeA	268.0 / 223.0	74171.17	250.00
PFHpS_1	449.0 / 80.0	N/A	13C8-PFOA	421.0 / 376.0	85550.58	250.00
PFHpS_2	449.0 / 99.0	N/A	13C8-PFOA	421.0 / 376.0	85550.58	250.00
PFDS_1	599.0 / 80.0	N/A	13C7-PFUnA	570.0 / 525.0	86562.80	250.00
PFDS_2	599.0 / 99.0	N/A	13C7-PFUnA	570.0 / 525.0	86562.80	250.00
4:2FTS_1	327.0 / 307.0	N/A	13C2-4:2FTS	329.0 / 81.0	5618.70	233.75
4:2FTS_2	327.0 / 80.0	N/A	13C2-4:2FTS	329.0 / 81.0	5618.70	233.75
6:2FTS_1	427.0 / 407.0	N/A	13C2-6:2FTS	429.0 / 81.0	14281.38	237.25
6:2FTS_2	427.0 / 81.0	N/A	13C2-6:2FTS	429.0 / 81.0	14281.38	237.25
8:2FTS_1	527.0 / 507.0	N/A	13C2-8:2 FTS	529.0 / 81.0	17755.12	239.50
8:2FTS_2	527.0 / 487.0	N/A	13C2-8:2 FTS	529.0 / 81.0	17755.12	239.50
PFPeS_1	349.0 / 99.0	N/A	13C5-PFHxA	318.0 / 273.0	62493.86	250.00
PFPeS_2	349.0 / 80.0	N/A	13C5-PFHxA	318.0 / 273.0	62493.86	250.00
PFNS_1	549.0 / 99.0	N/A	13C6-PFDA	519.0 / 474.0	91342.98	250.00
PFNS_2	549.0 / 80.0	N/A	13C6-PFDA	519.0 / 474.0	91342.98	250.00

Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T18:53:06	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	1.16	13C3-PFBA	216.0 / 172.0	51445.72	250.00
13C2-PFDoA	615.0 / 570.0	4.07	13C2-PFDA	515.0 / 470.0	92676.29	250.00
d3-MeFOSAA	573.0 / 419.0	3.62	13C4-PFOS	503.0 / 99.0	30413.28	239.25
d5-EtFOSAA	589.0 / 419.0	3.78	13C4-PFOS	503.0 / 99.0	30413.28	239.25
13C5-PFPeA	268.0 / 223.0	1.48	13C3-PFBA	216.0 / 172.0	51445.72	250.00
13C5-PFHxA	318.0 / 273.0	1.87	13C2-PFOA	415.0 / 370.0	67694.64	250.00
13C4-PFHpA	367.0 / 322.0	2.29	13C2-PFOA	415.0 / 370.0	67694.64	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	67694.64	250.00
13C9-PFNA	472.0 / 427.0	3.10	13C2-PFOA	415.0 / 370.0	67694.64	250.00
13C6-PFDA	519.0 / 474.0	3.46	13C2-PFDA	515.0 / 470.0	92676.29	250.00
13C7-PFUnA	570.0 / 525.0	3.78	13C2-PFDA	515.0 / 470.0	92676.29	250.00
13C2-PFTeDA	715.0 / 670.0	4.54	13C2-PFDA	515.0 / 470.0	92676.29	250.00
13C3-PFBS	302.0 / 99.0	1.54	13C4-PFOS	503.0 / 99.0	30413.28	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	30413.28	239.25
13C8-PFOS	507.0 / 99.0	3.10	13C4-PFOS	503.0 / 99.0	30413.28	239.25
13C2-4:2FTS	329.0 / 81.0	1.82	13C4-PFOS	503.0 / 99.0	30413.28	239.25
13C2-6:2FTS	429.0 / 81.0	2.67	13C4-PFOS	503.0 / 99.0	30413.28	239.25
13C2-8:2FTS	529.0 / 81.0	3.45	13C4-PFOS	503.0 / 99.0	30413.28	239.25

Sample Name	J8460-FS-D(9)	Injection Vial	4
Sample ID	VC-CS12-SB01-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T19:14:54	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369
Sample Comment			

**Results Summary**

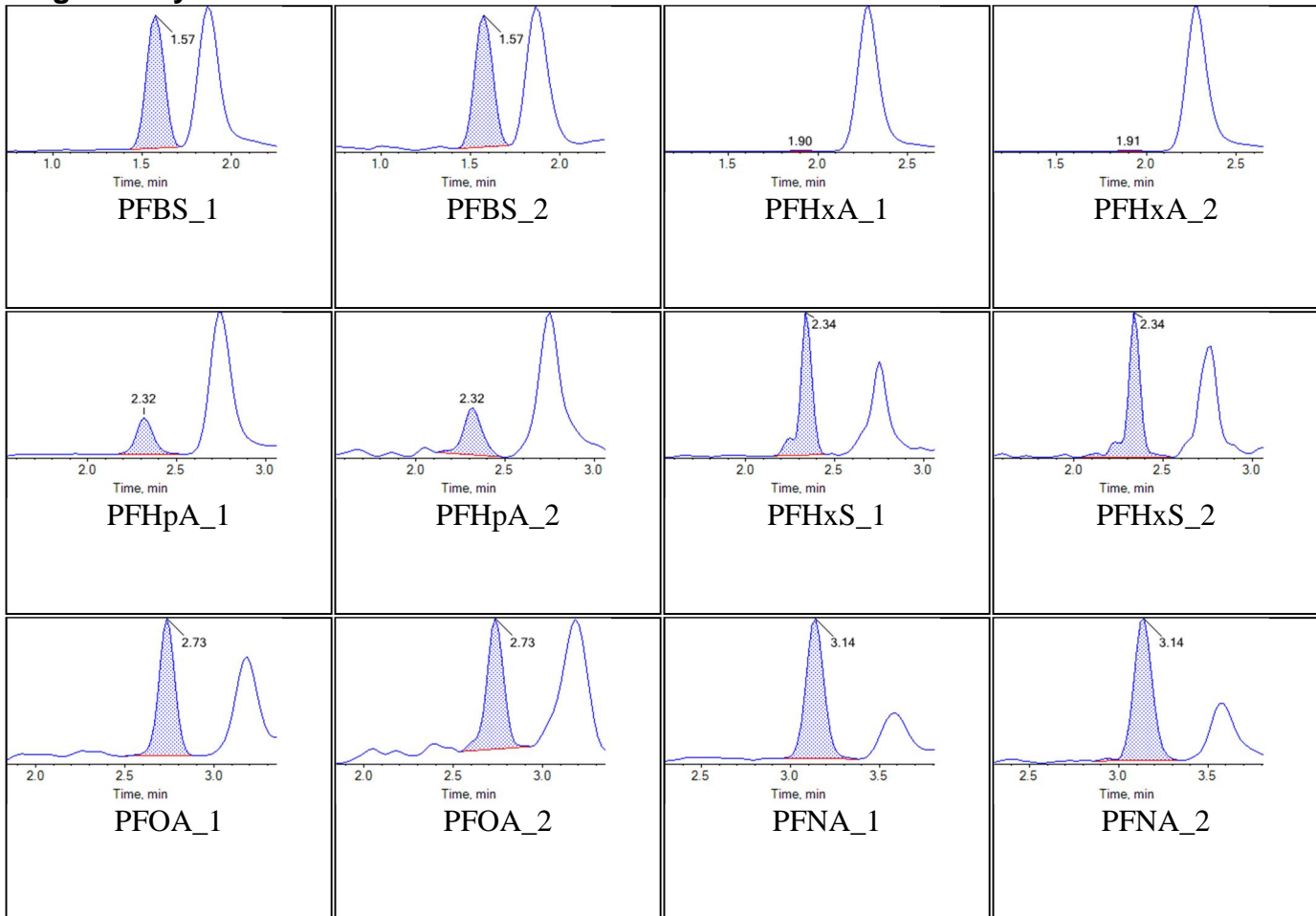
Analyte	MRM Transition	RT	IS	IS MRM Transition	IS Area	IS Conc. (ng/L)
13C4-PFBA	217.0 / 172.0	N/A	13C3-PFBA	216.0 / 172.0	52775.26	250.00
13C2-PFDoA	615.0 / 570.0	4.06	13C2-PFDA	515.0 / 470.0	89662.27	250.00
d3-MeFOSAA	573.0 / 419.0	3.61	13C4-PFOS	503.0 / 99.0	27425.16	239.25
d5-EtFOSAA	589.0 / 419.0	3.77	13C4-PFOS	503.0 / 99.0	27425.16	239.25
13C5-PFPeA	268.0 / 223.0	1.48	13C3-PFBA	216.0 / 172.0	52775.26	250.00
13C5-PFHxA	318.0 / 273.0	1.87	13C2-PFOA	415.0 / 370.0	78764.84	250.00
13C4-PFHpA	367.0 / 322.0	2.28	13C2-PFOA	415.0 / 370.0	78764.84	250.00
13C8-PFOA	421.0 / 376.0	2.70	13C2-PFOA	415.0 / 370.0	78764.84	250.00
13C9-PFNA	472.0 / 427.0	3.09	13C2-PFOA	415.0 / 370.0	78764.84	250.00
13C6-PFDA	519.0 / 474.0	3.45	13C2-PFDA	515.0 / 470.0	89662.27	250.00
13C7-PFUnA	570.0 / 525.0	3.77	13C2-PFDA	515.0 / 470.0	89662.27	250.00
13C2-PFTeDA	715.0 / 670.0	4.52	13C2-PFDA	515.0 / 470.0	89662.27	250.00
13C3-PFBS	302.0 / 99.0	1.53	13C4-PFOS	503.0 / 99.0	27425.16	239.25
13C3-PFHxS	402.0 / 99.0	2.31	13C4-PFOS	503.0 / 99.0	27425.16	239.25
13C8-PFOS	507.0 / 99.0	3.09	13C4-PFOS	503.0 / 99.0	27425.16	239.25
13C2-4:2FTS	329.0 / 81.0	N/A	13C4-PFOS	503.0 / 99.0	27425.16	239.25
13C2-6:2FTS	429.0 / 81.0	N/A	13C4-PFOS	503.0 / 99.0	27425.16	239.25
13C2-8:2FTS	529.0 / 81.0	N/A	13C4-PFOS	503.0 / 99.0	27425.16	239.25

# Chromatograms

<b>Sample Name</b>	KB73	<b>Injection Vial</b>	2
<b>Sample ID</b>	L1	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:46:52	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

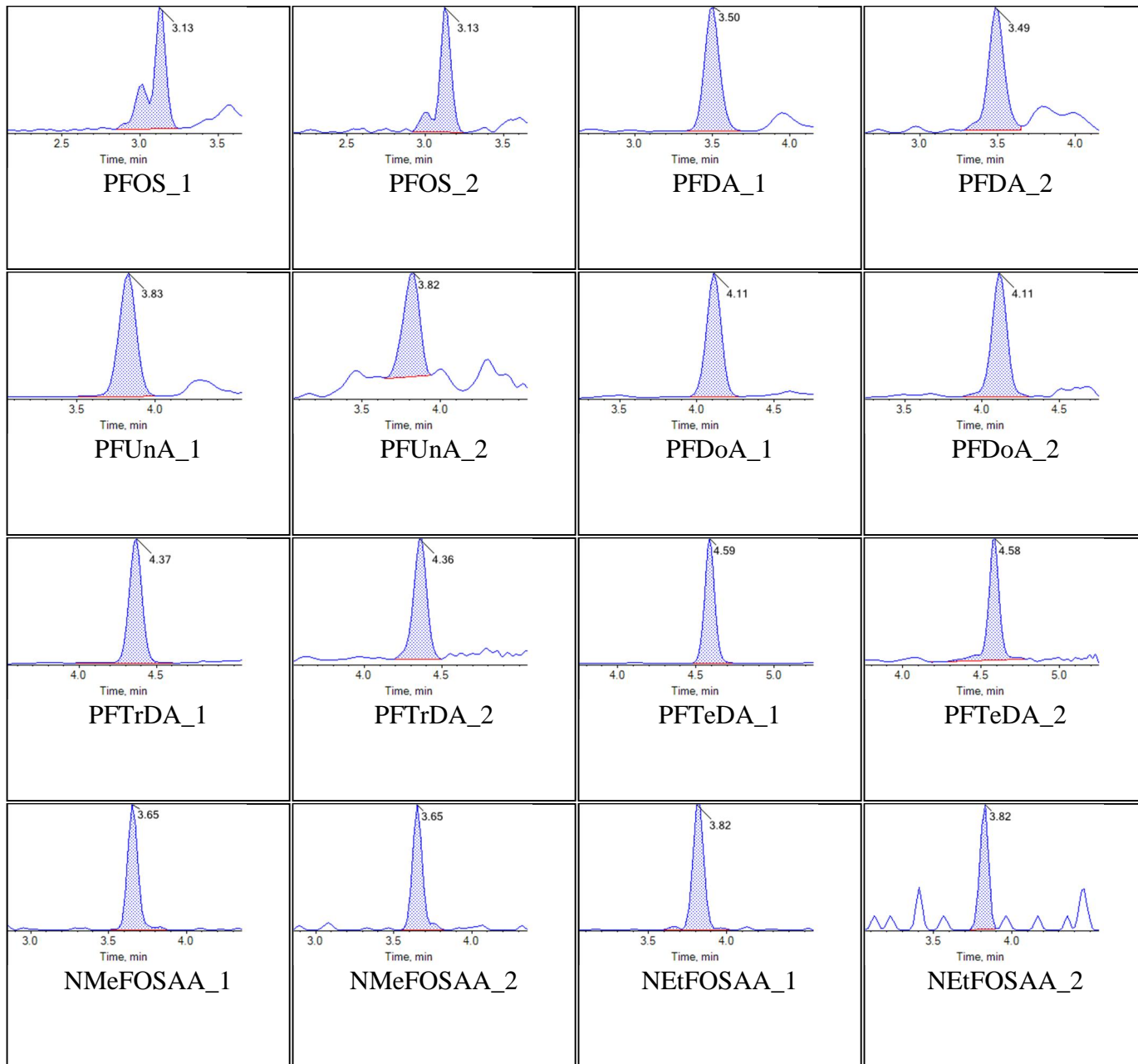
### Target Analytes:



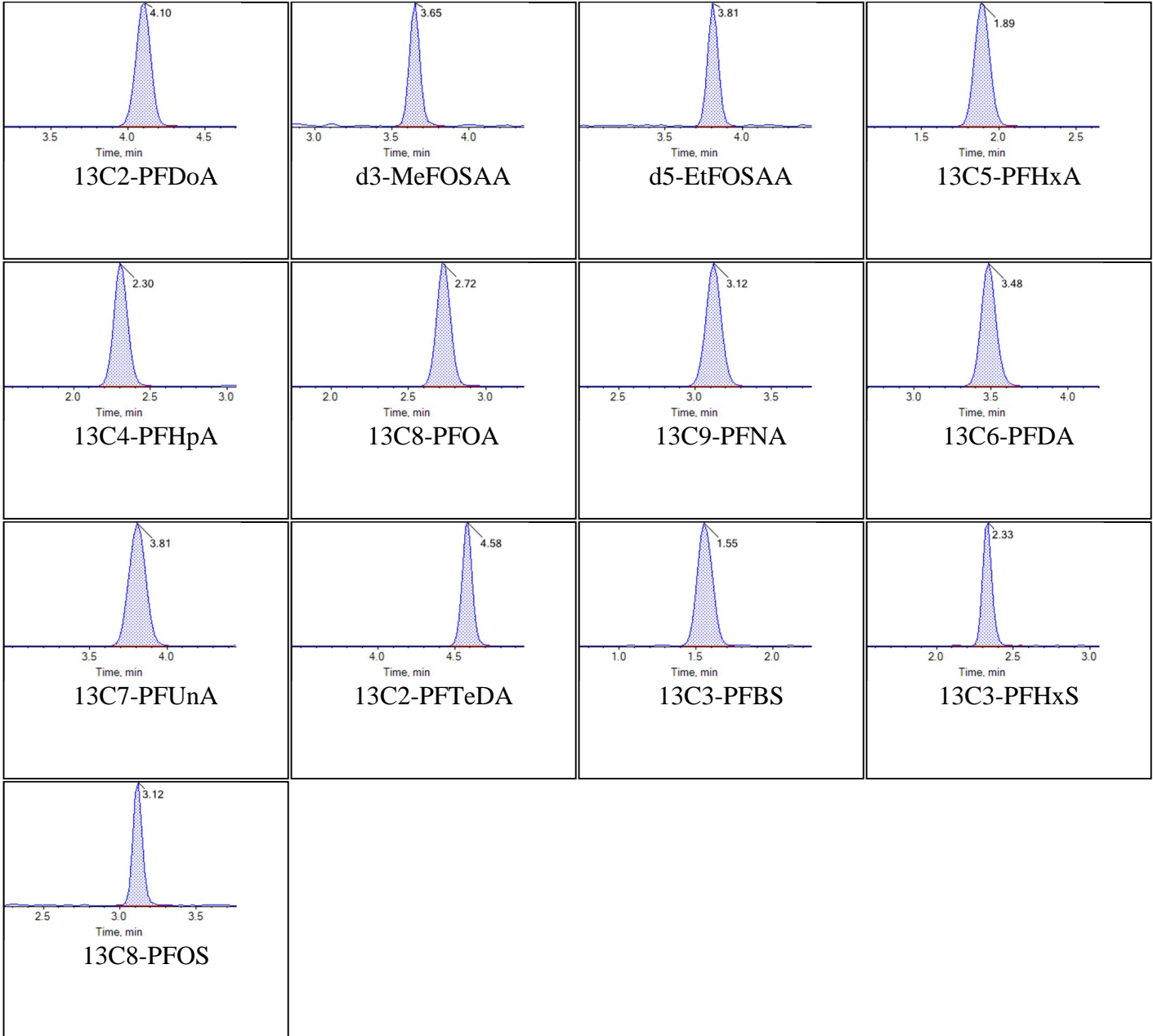


Chromatogram Report

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Printed: 25/10/2018 9:40:20 AM



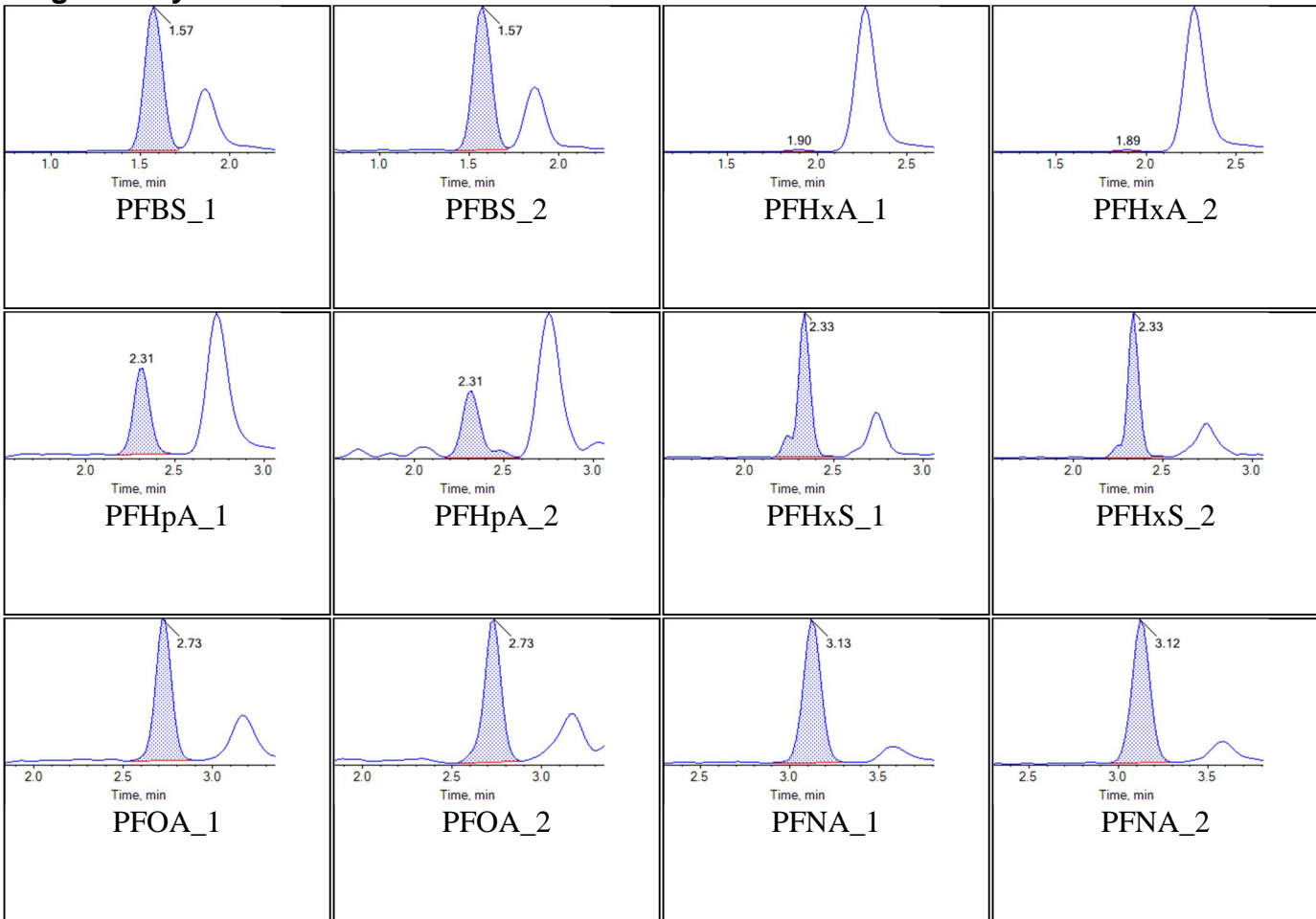
Internal Standards:



<b>Sample Name</b>	KB74	<b>Injection Vial</b>	3
<b>Sample ID</b>	L2	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:57:45	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:

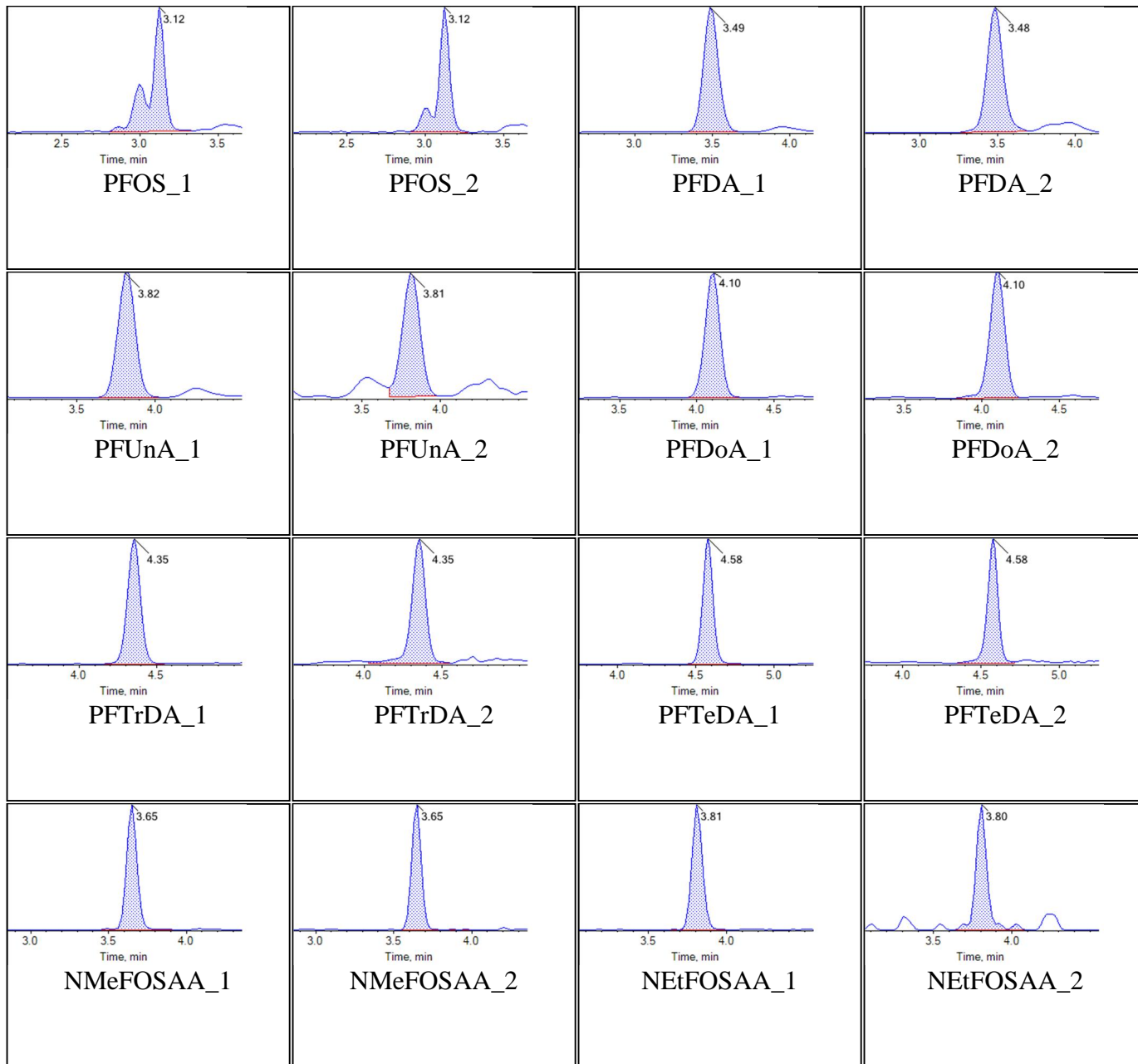




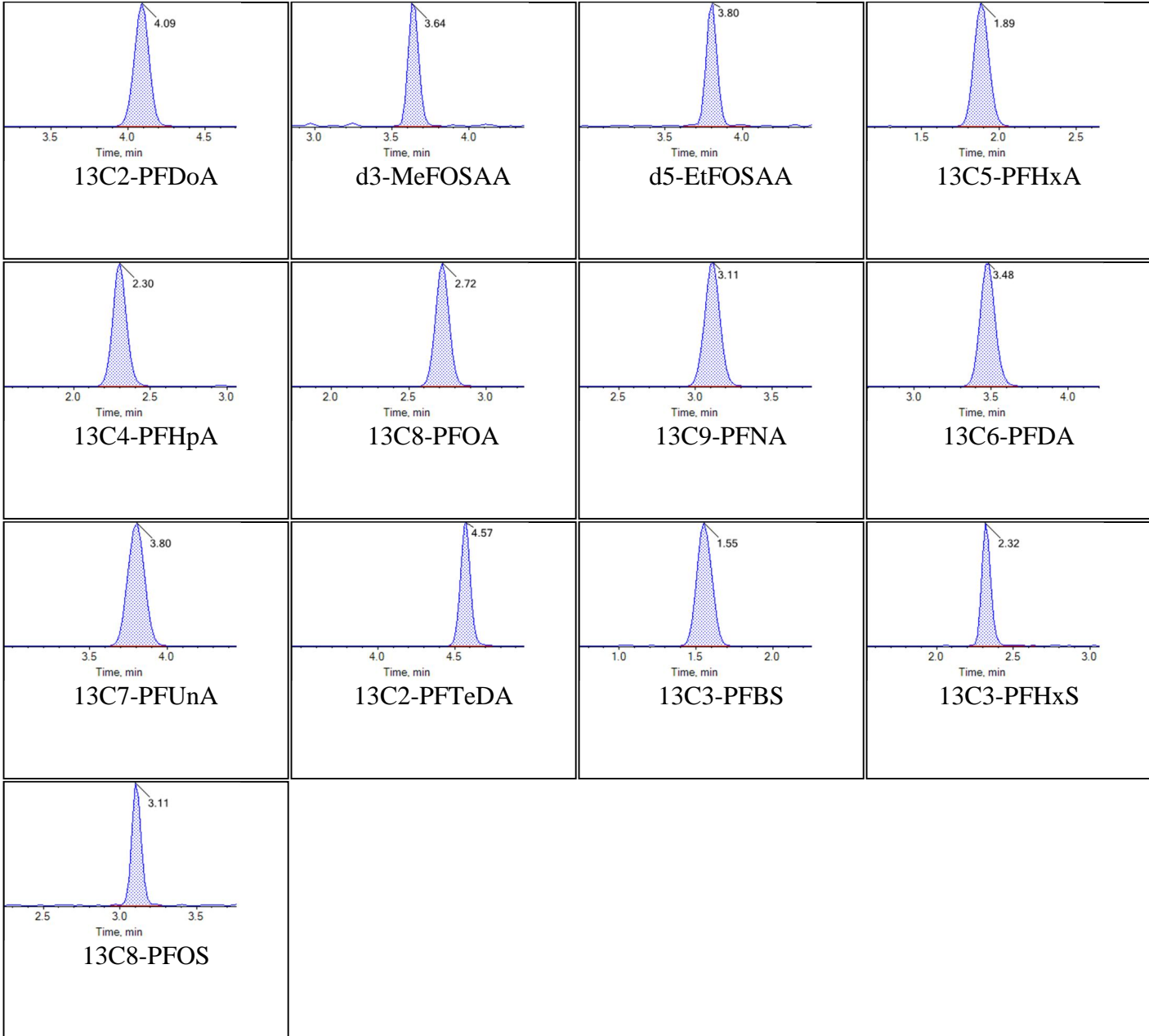


Chromatogram Report

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Printed: 25/10/2018 9:40:26 AM



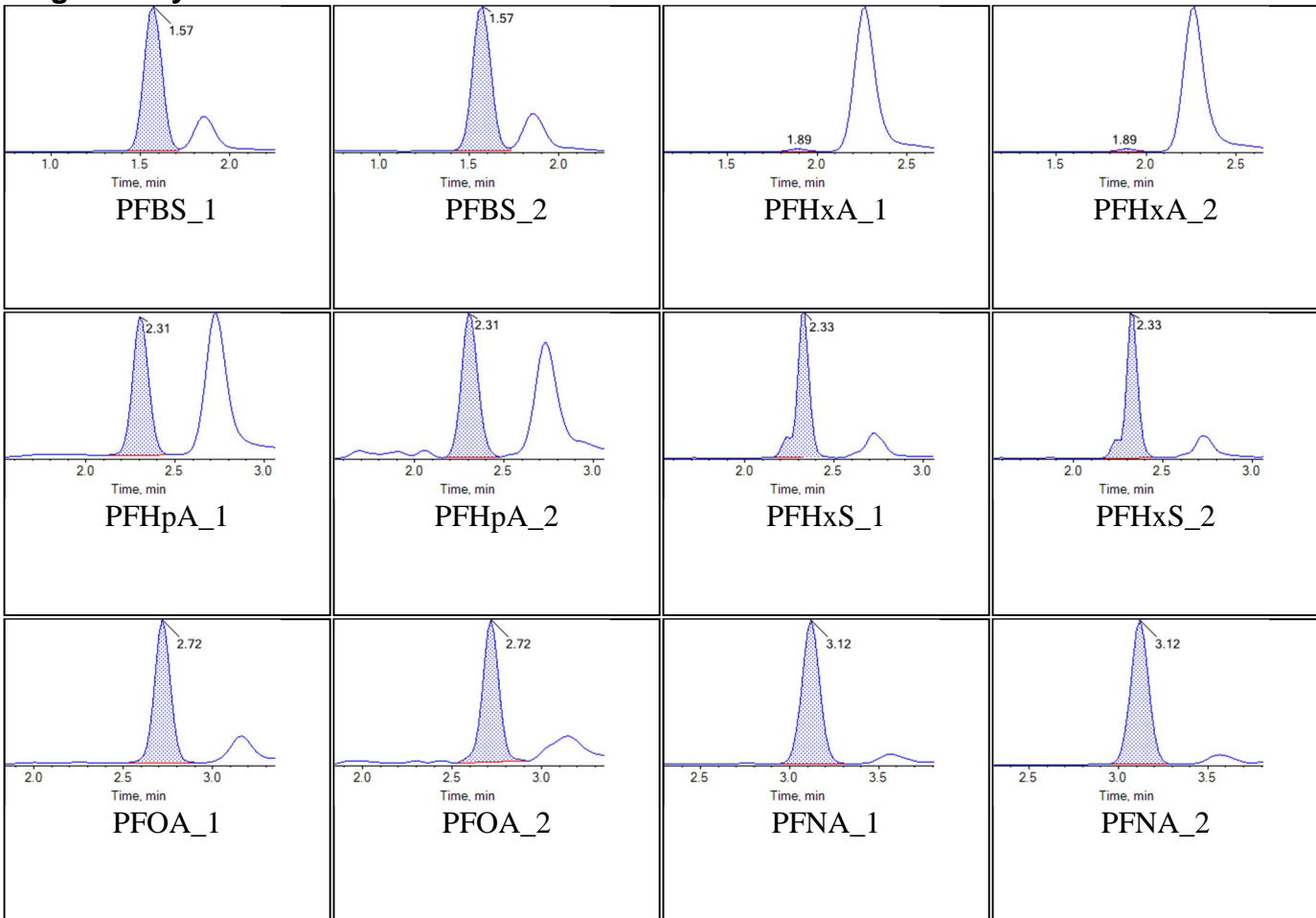
Internal Standards:



<b>Sample Name</b>	KB75	<b>Injection Vial</b>	4
<b>Sample ID</b>	L3	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:08:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

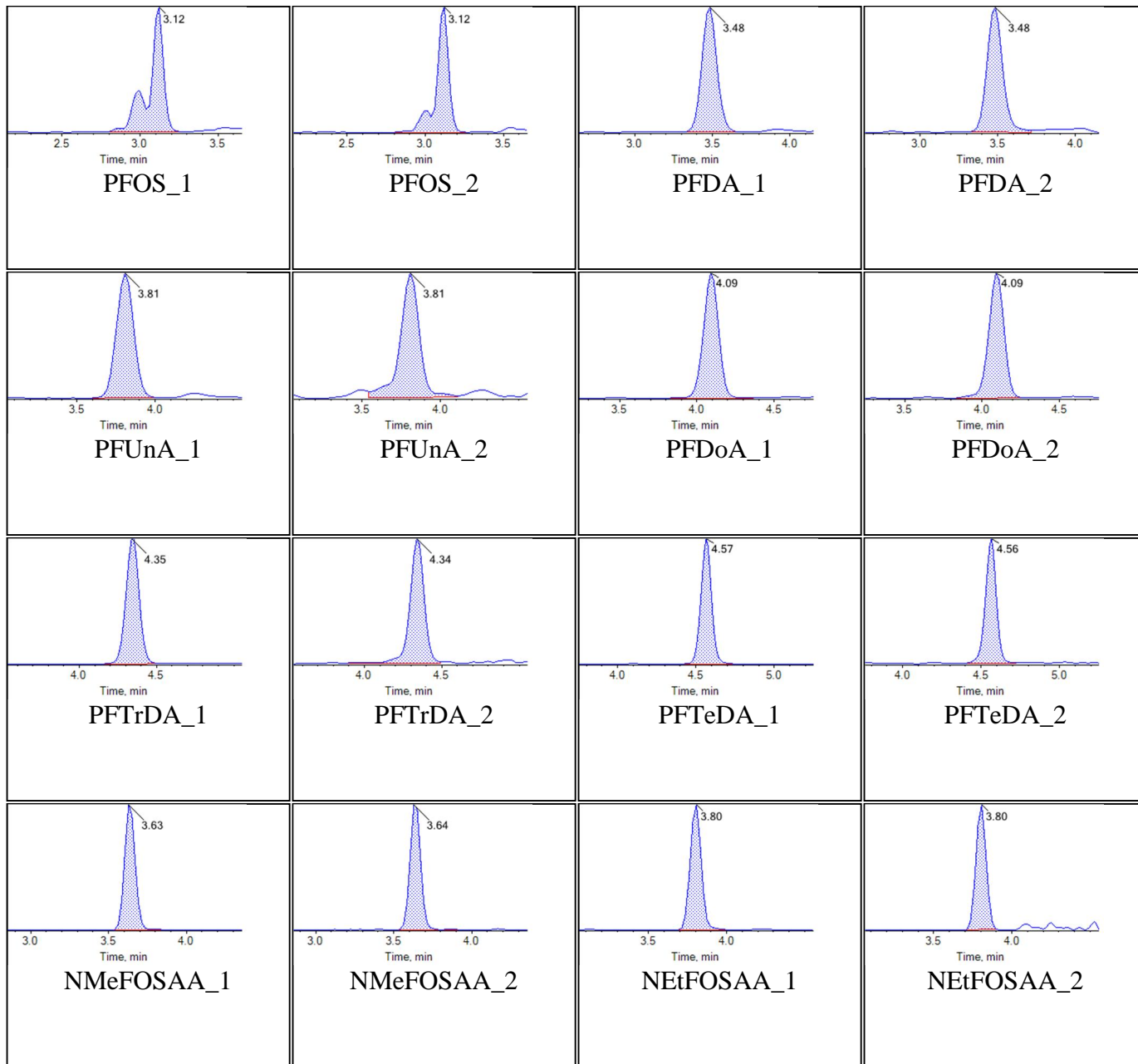
### Target Analytes:



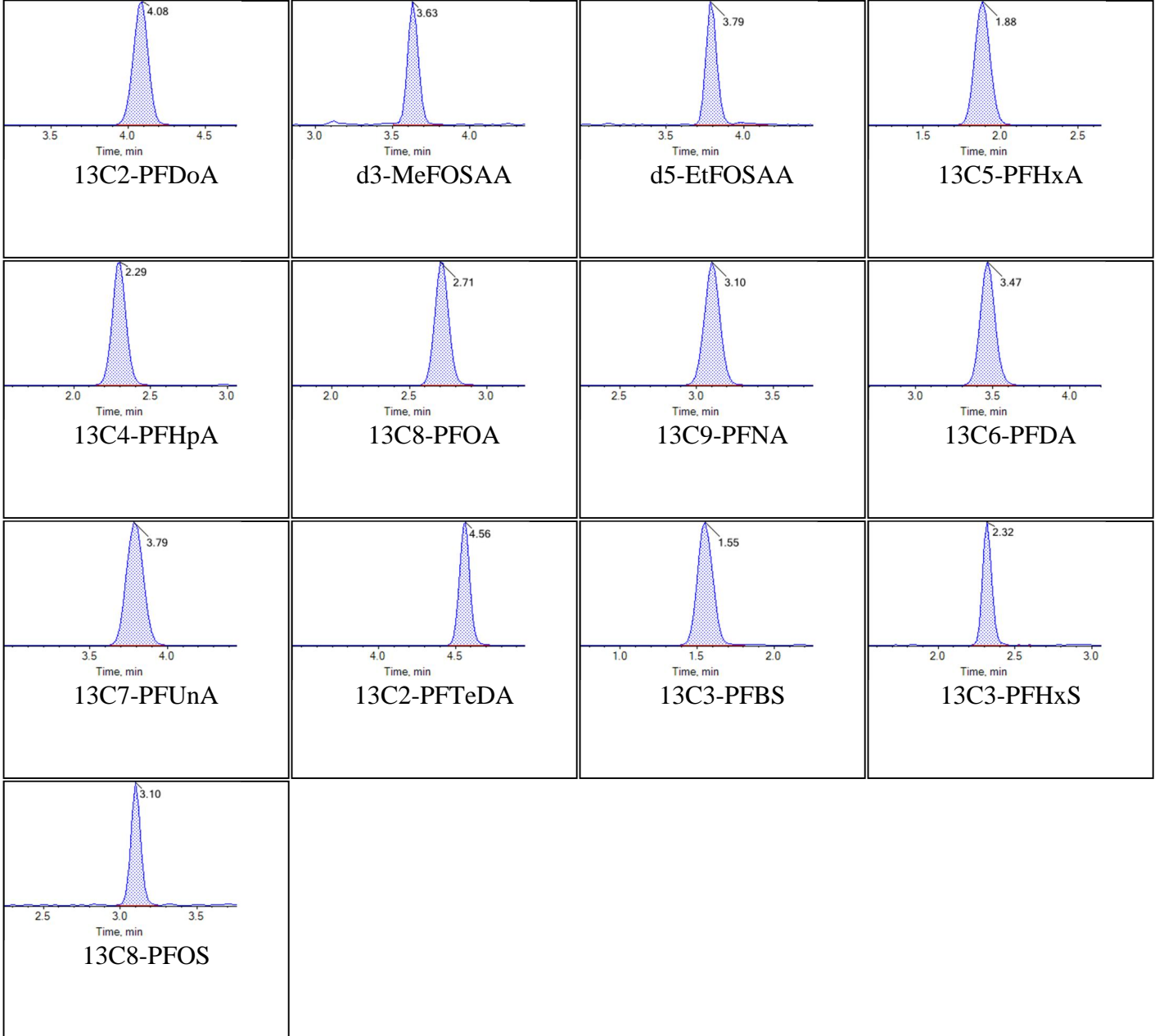


Chromatogram Report

Created with Analyst Reporter  
Printed: 25/10/2018 9:40:31 AM



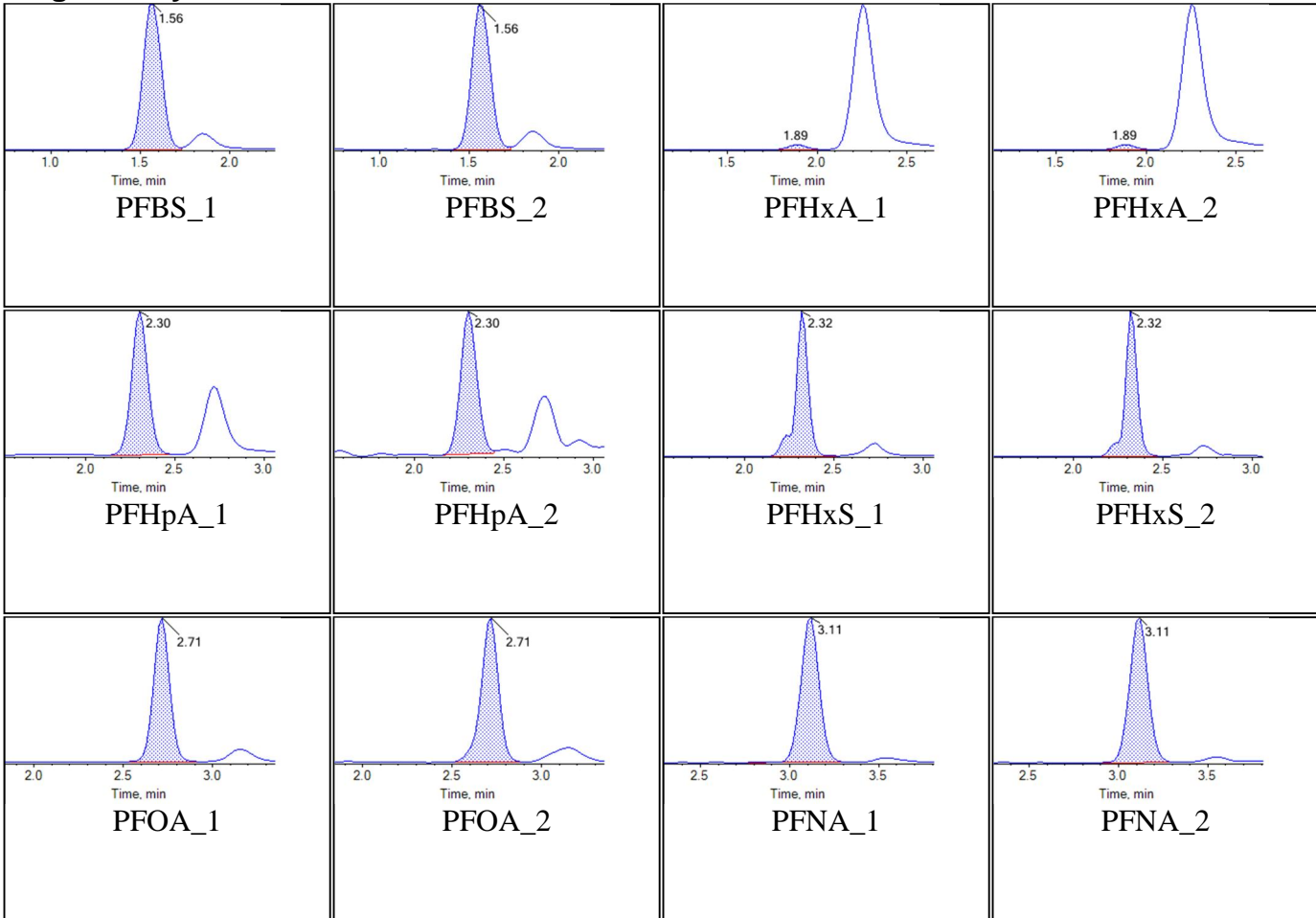
Internal Standards:



<b>Sample Name</b>	KB76	<b>Injection Vial</b>	5
<b>Sample ID</b>	L4	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:19:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

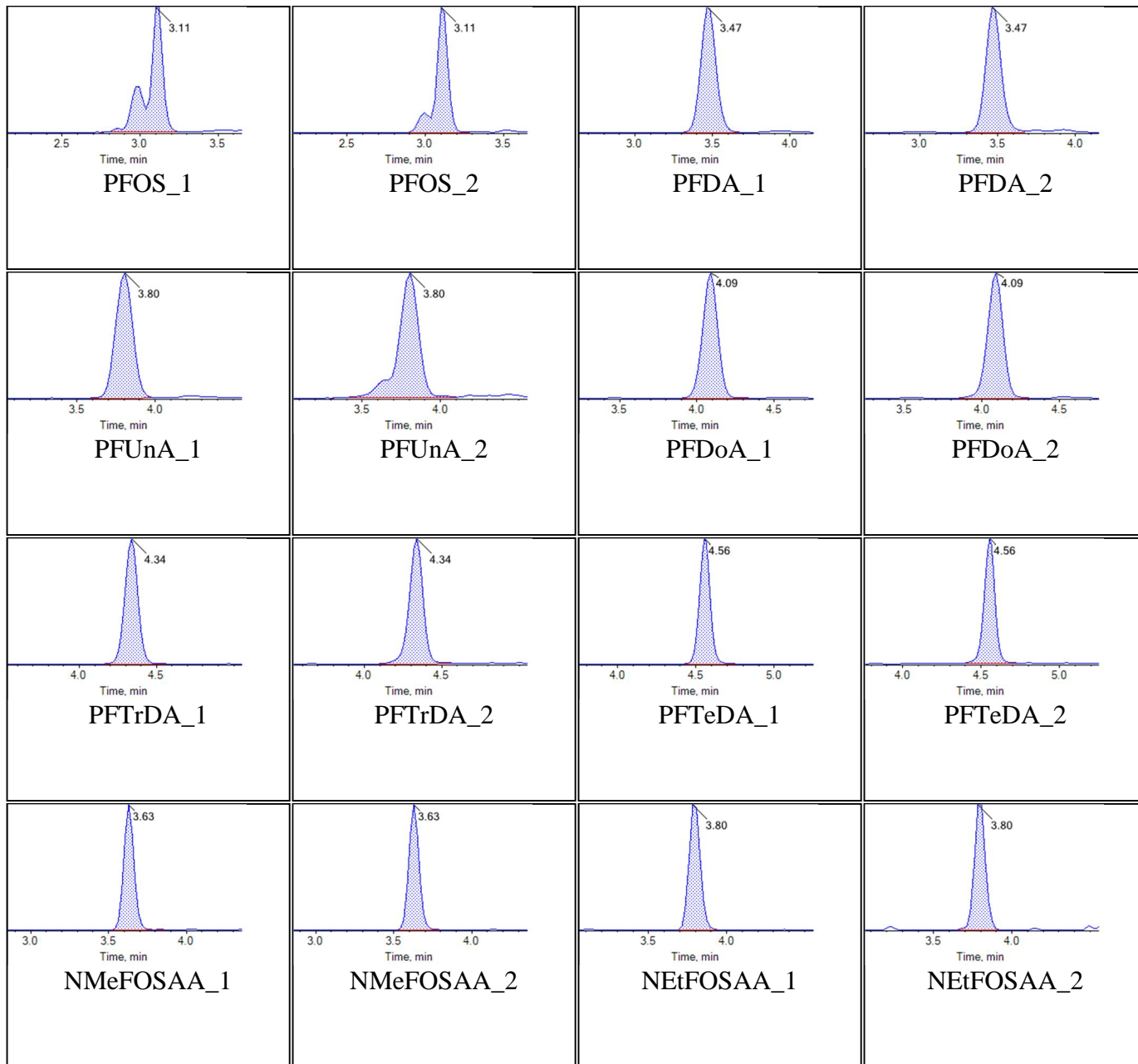
### Target Analytes:



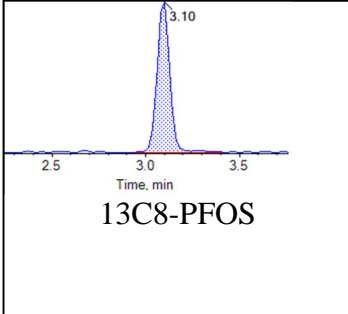
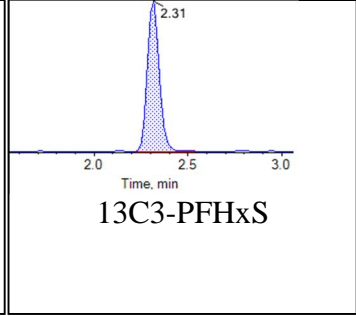
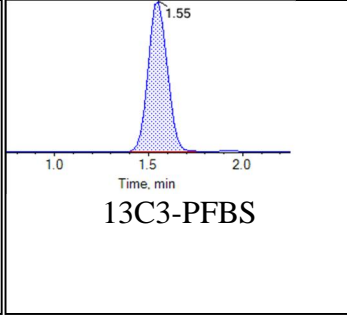
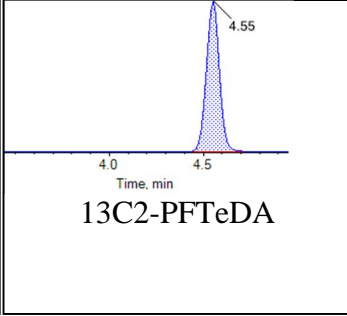
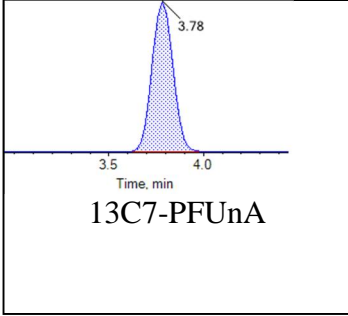
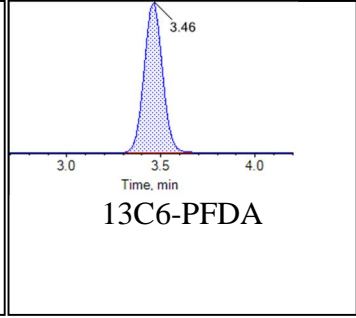
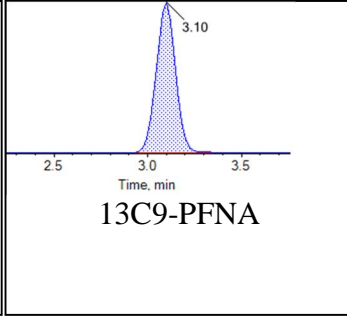
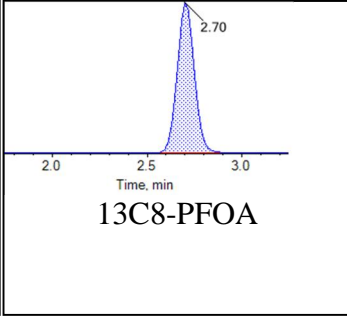
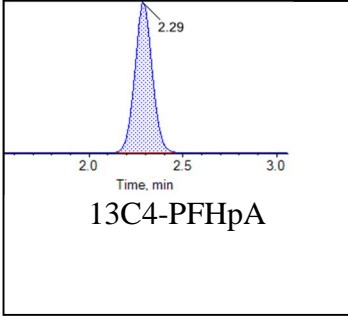
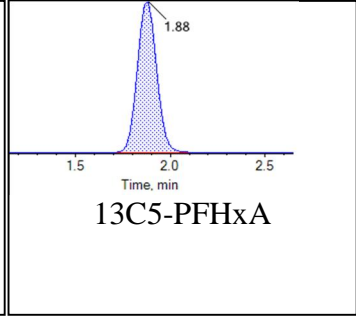
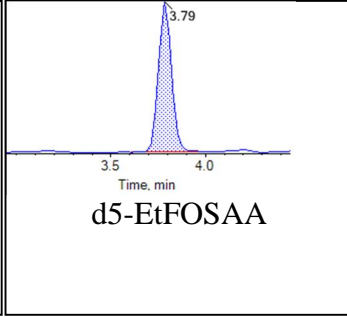
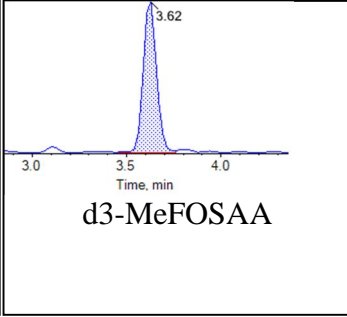
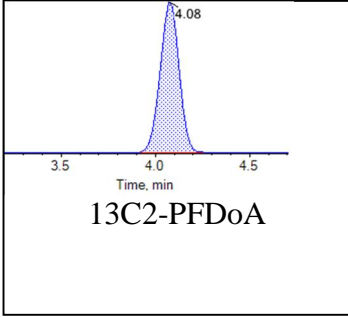


Chromatogram Report

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Internal Standards:

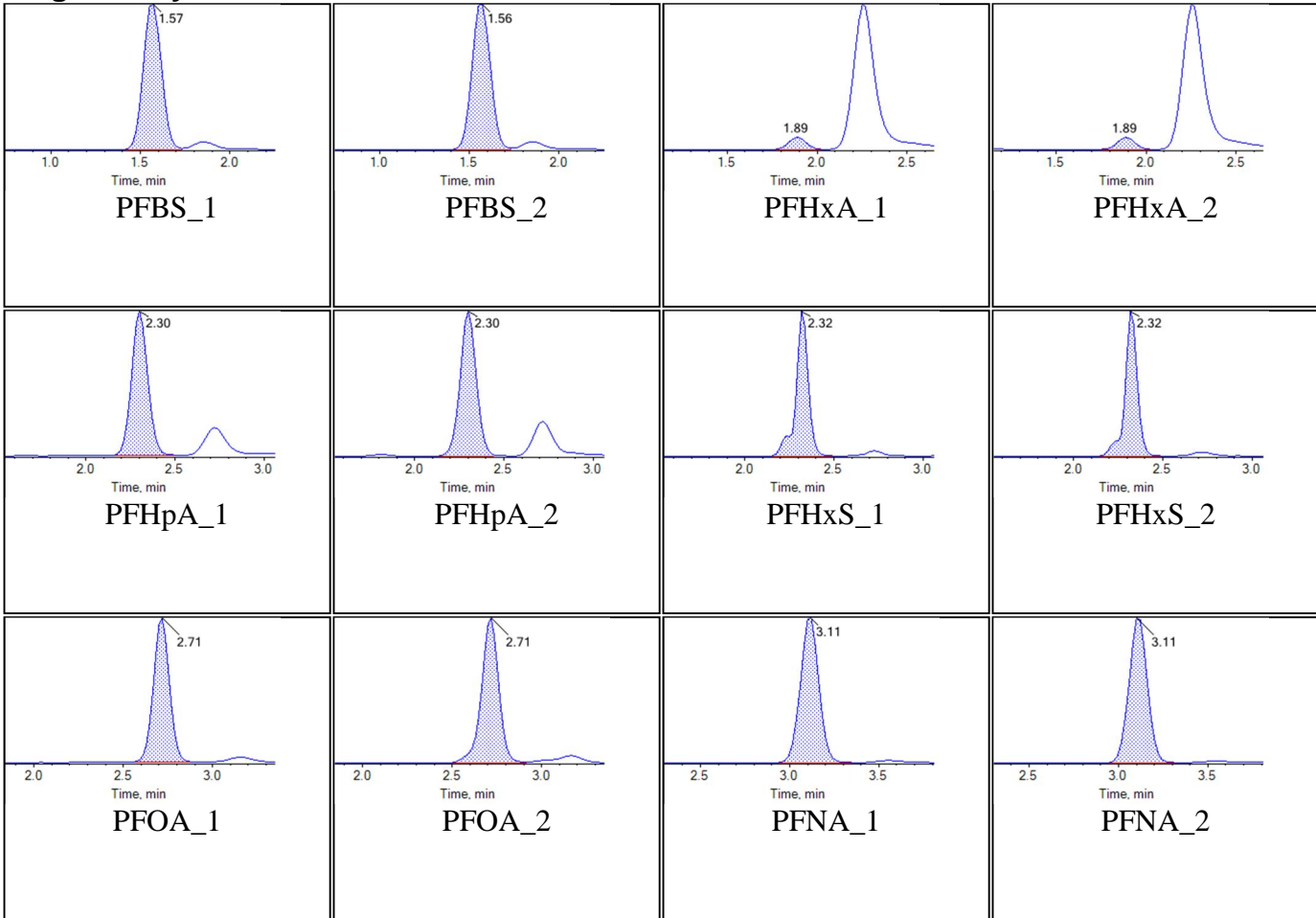




<b>Sample Name</b>	KB77	<b>Injection Vial</b>	6
<b>Sample ID</b>	L5	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:30:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

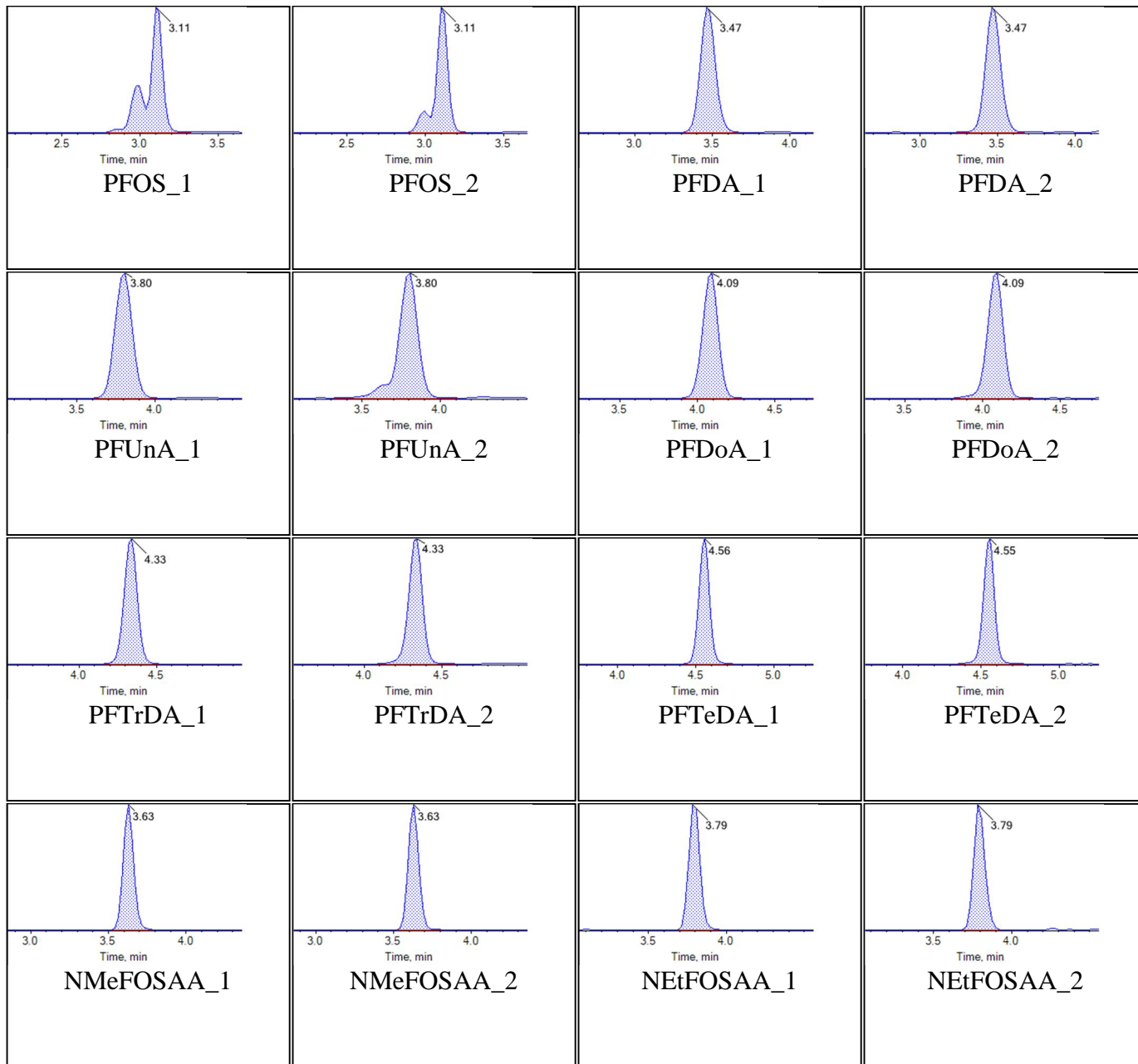
### Target Analytes:



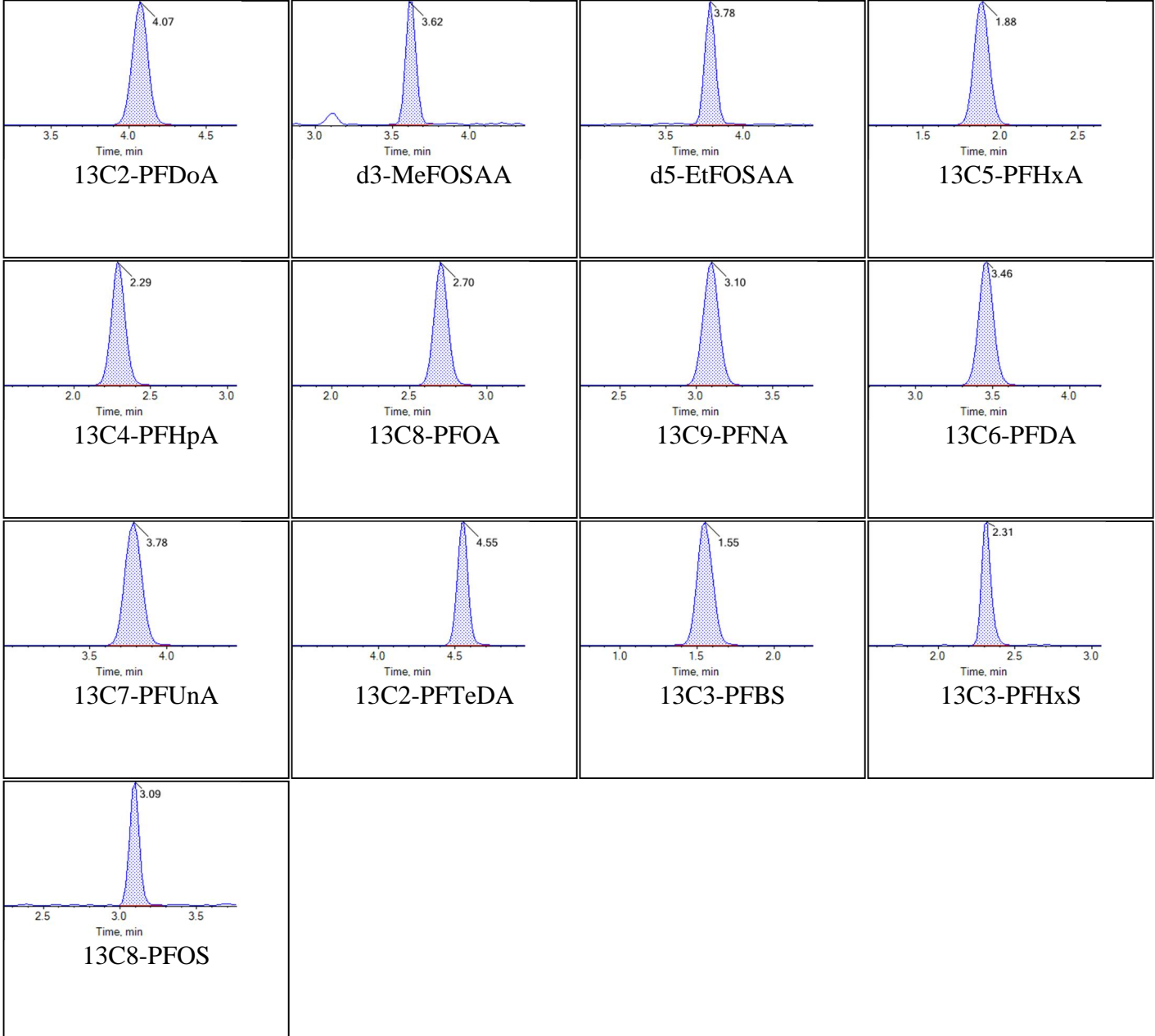


Chromatogram Report

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Printed: 25/10/2018 9:40:42 AM



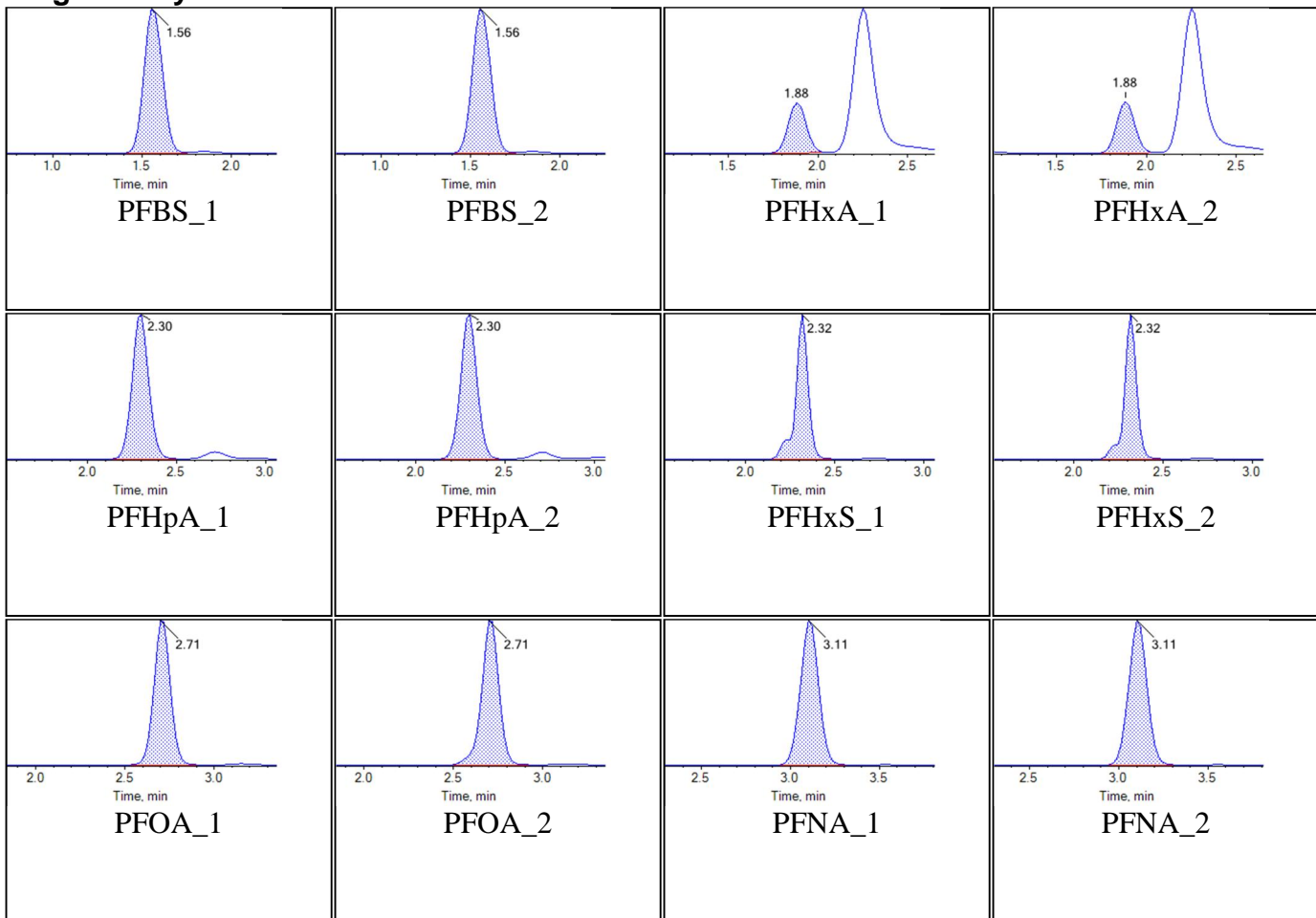
Internal Standards:



<b>Sample Name</b>	KB78	<b>Injection Vial</b>	7
<b>Sample ID</b>	L6	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:41:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

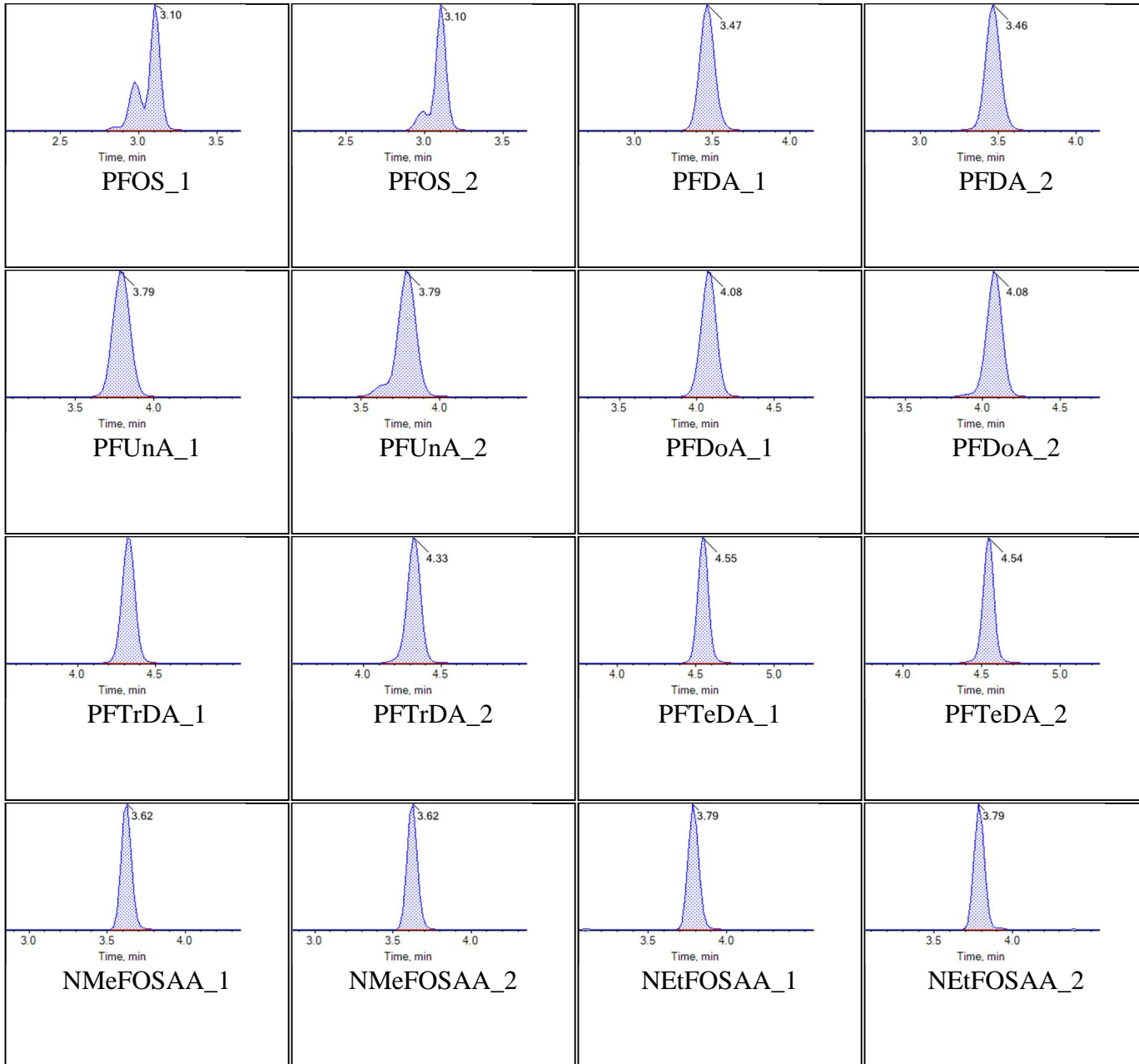
### Target Analytes:



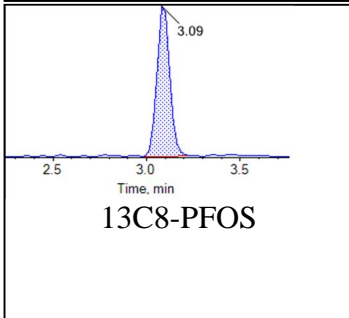
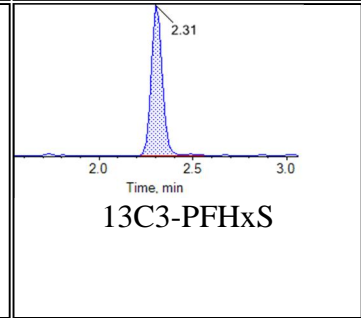
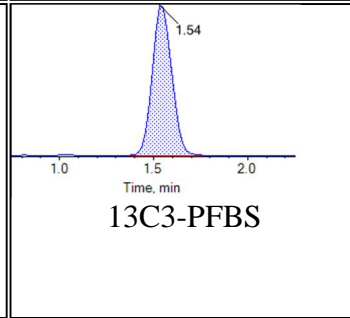
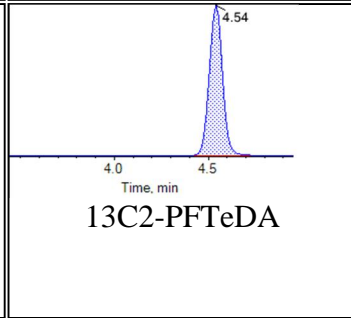
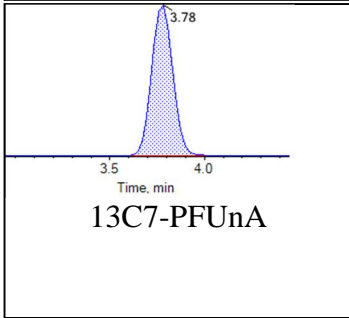
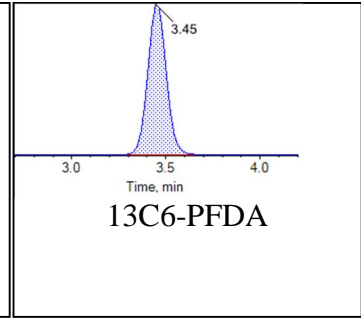
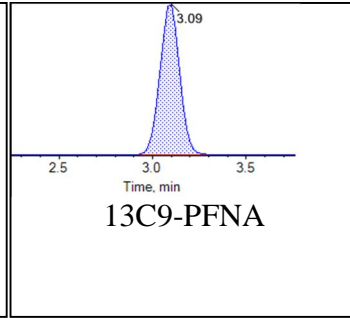
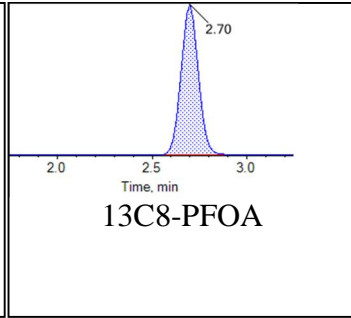
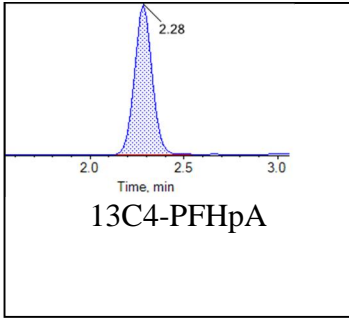
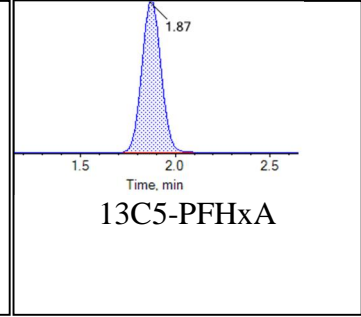
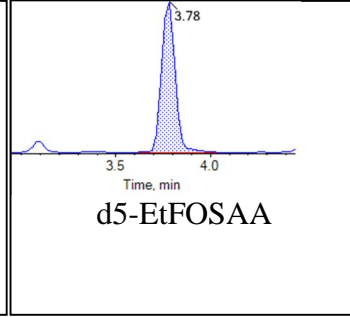
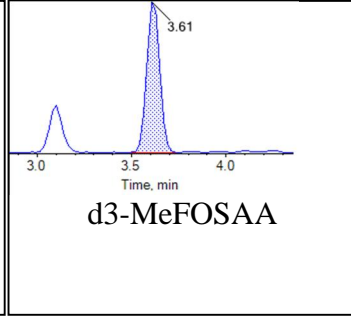
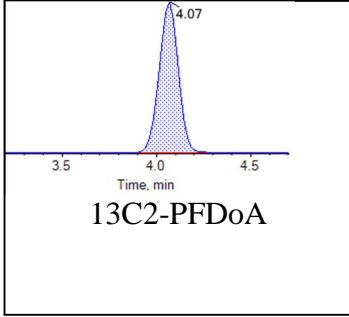


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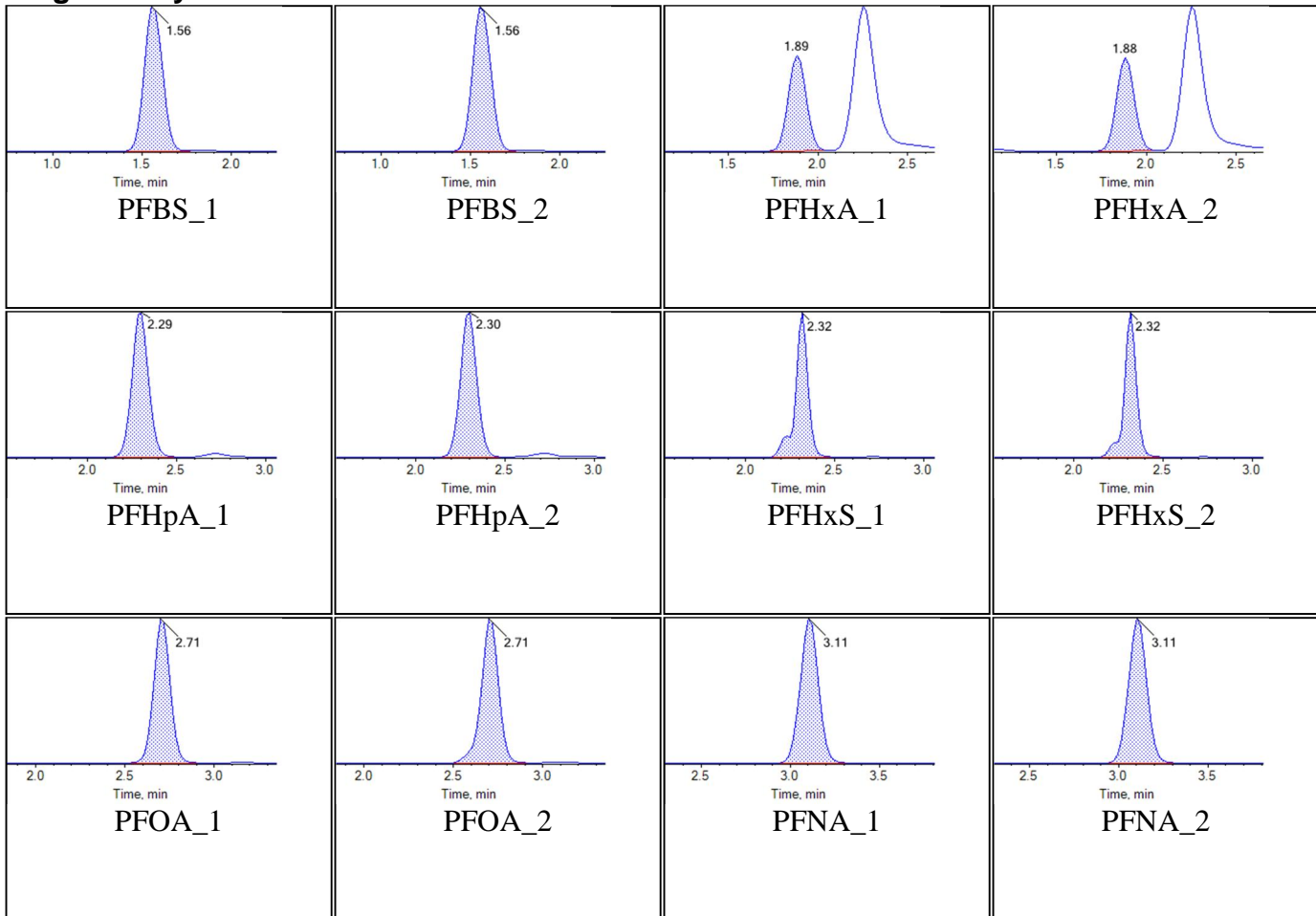
Internal Standards:



Sample Name	KB79	Injection Vial	8
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:52:06	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

### Chromatograms

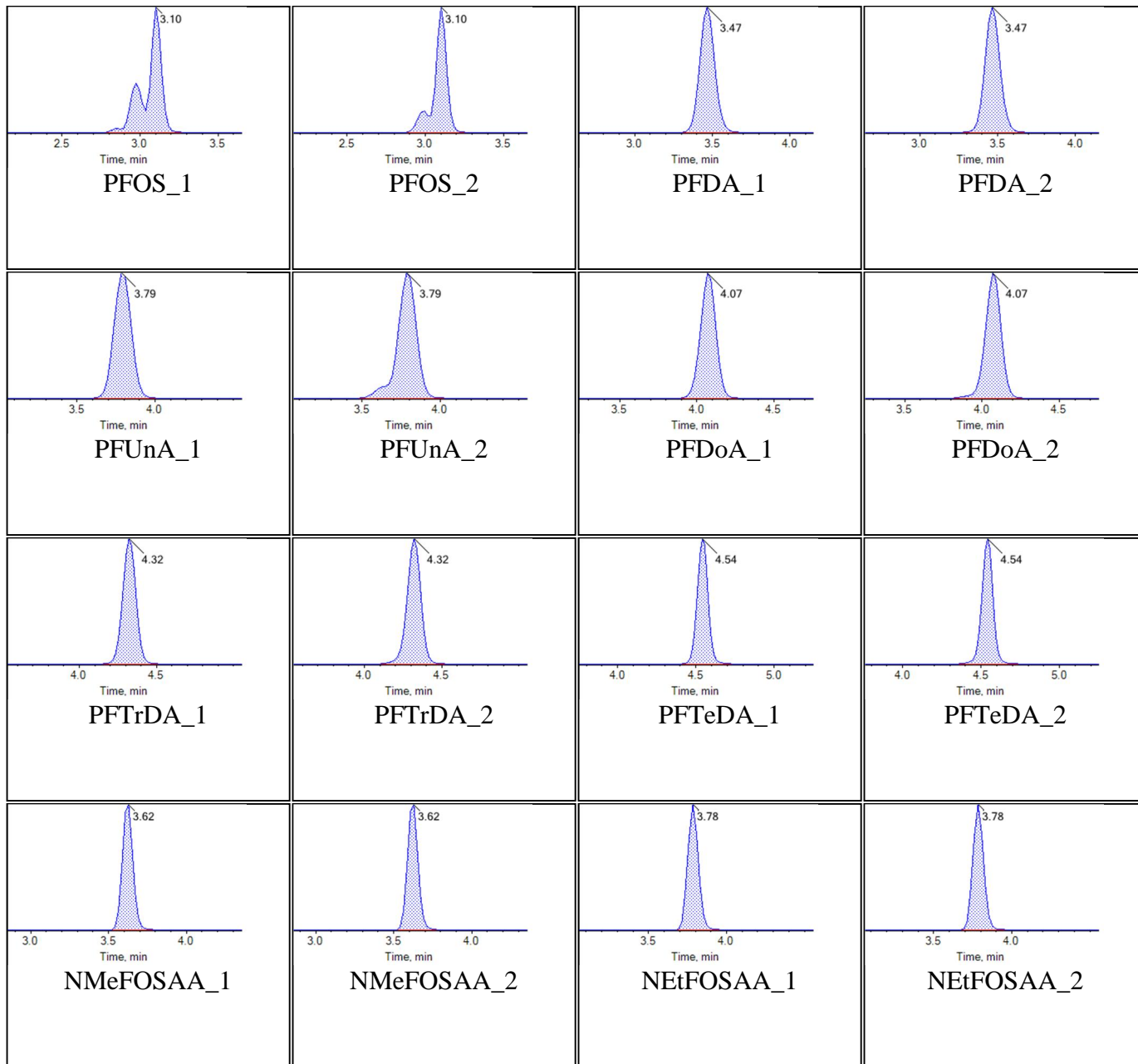
#### Target Analytes:





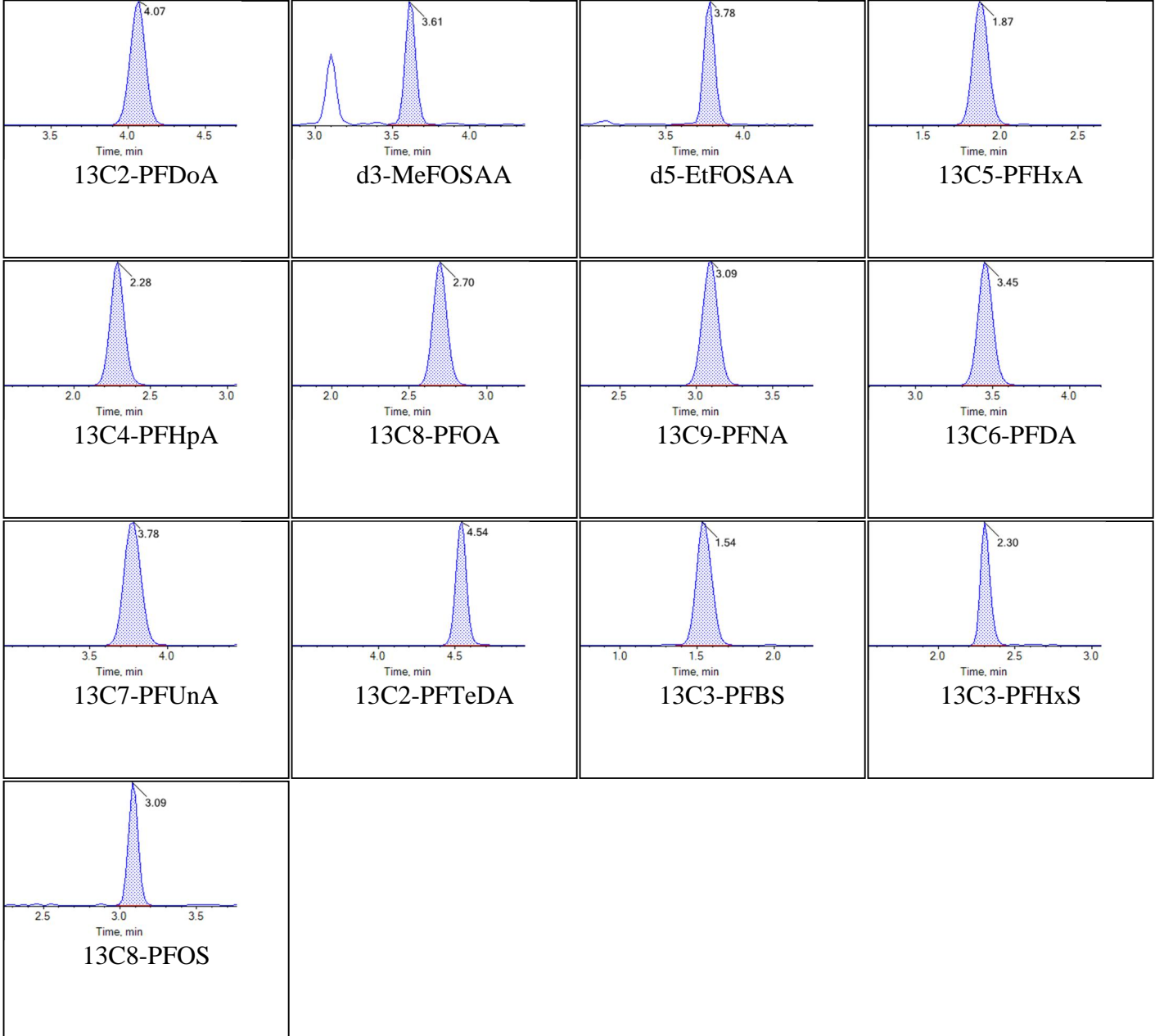
Chromatogram Report

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Internal Standards:

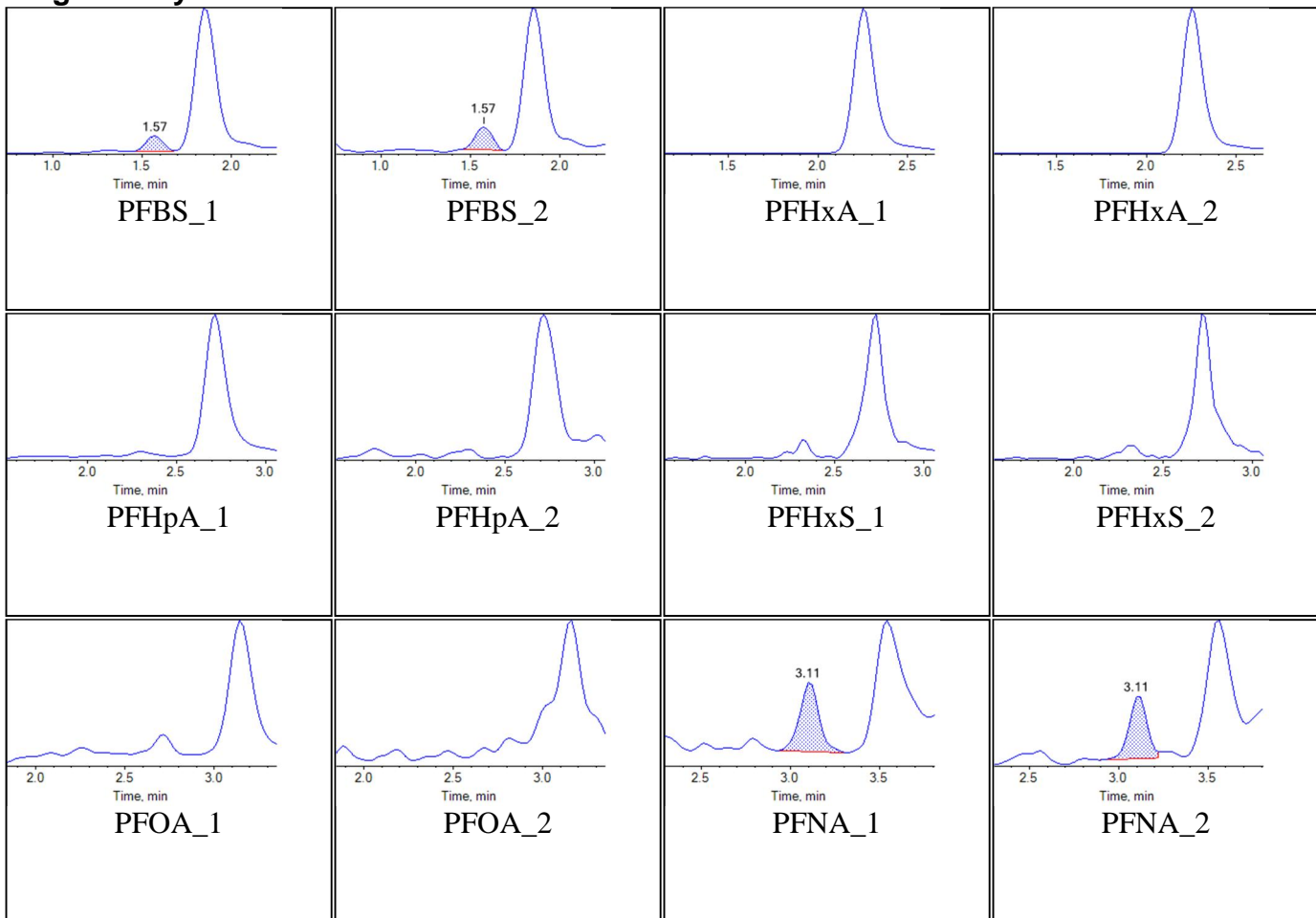




<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	9
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:02:57	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

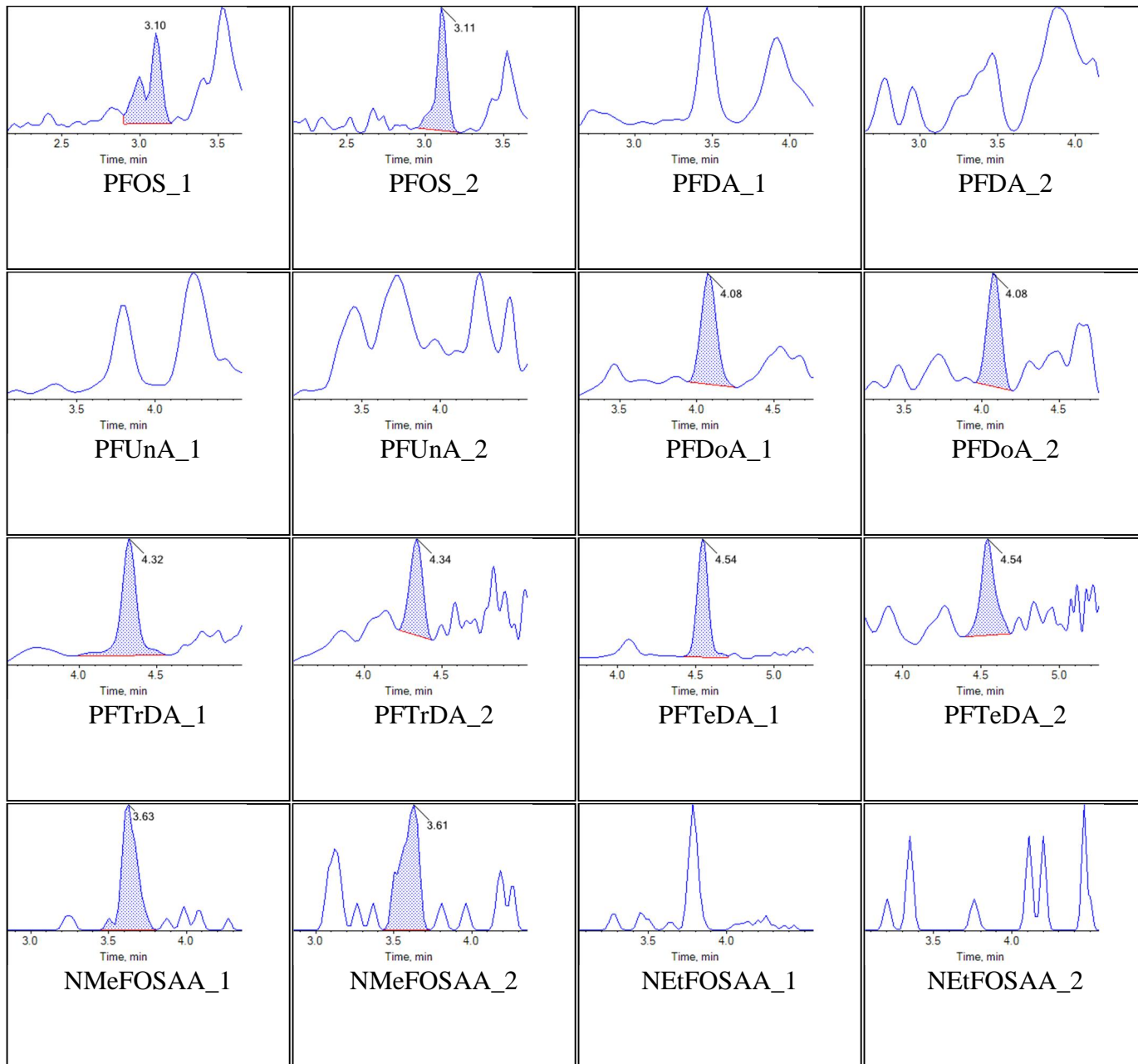
### Target Analytes:



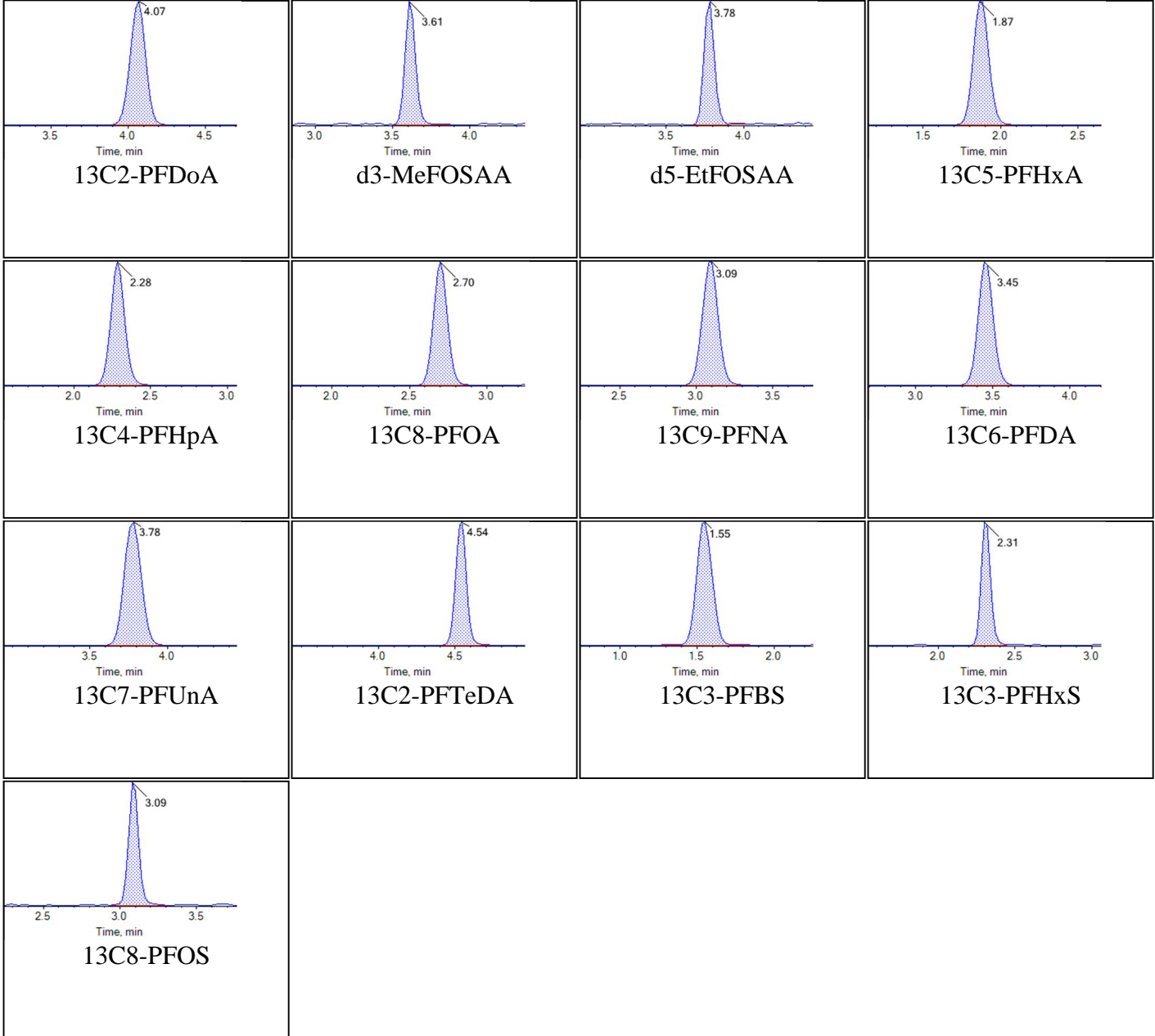


Chromatogram Report

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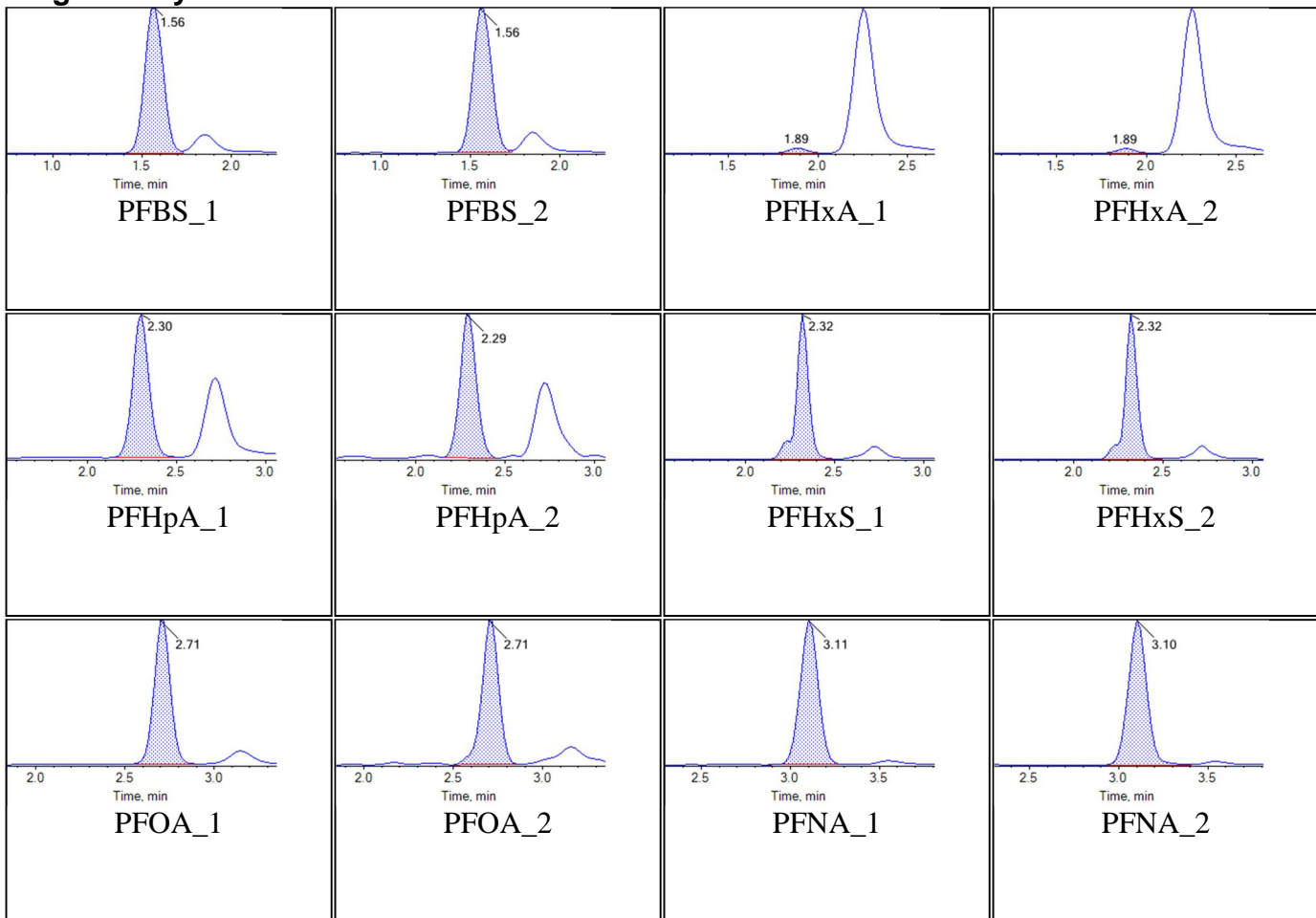
Internal Standards:



<b>Sample Name</b>	KB81 ICC	<b>Injection Vial</b>	10
<b>Sample ID</b>	ICC	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:13:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Chromatograms

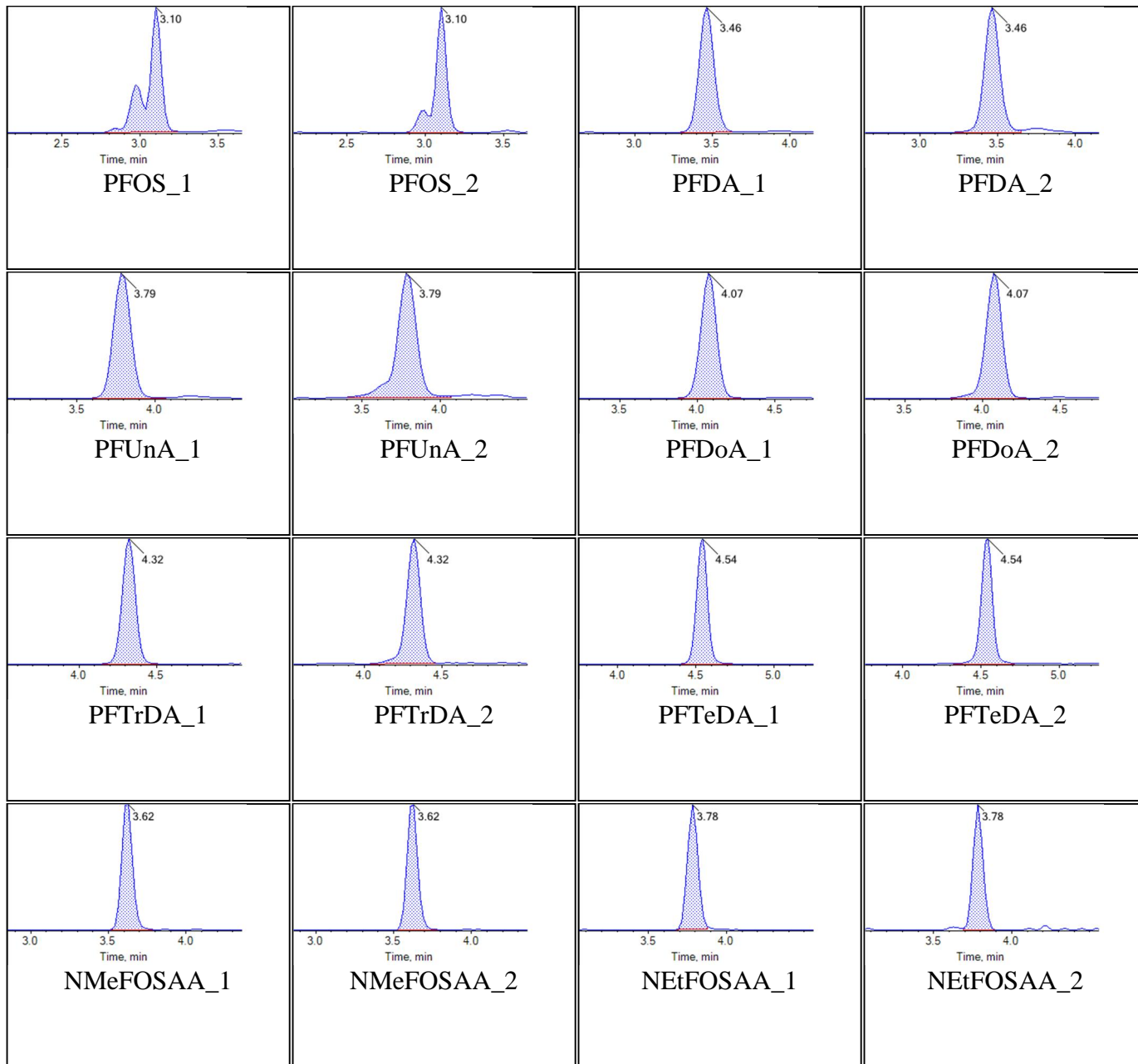
#### Target Analytes:



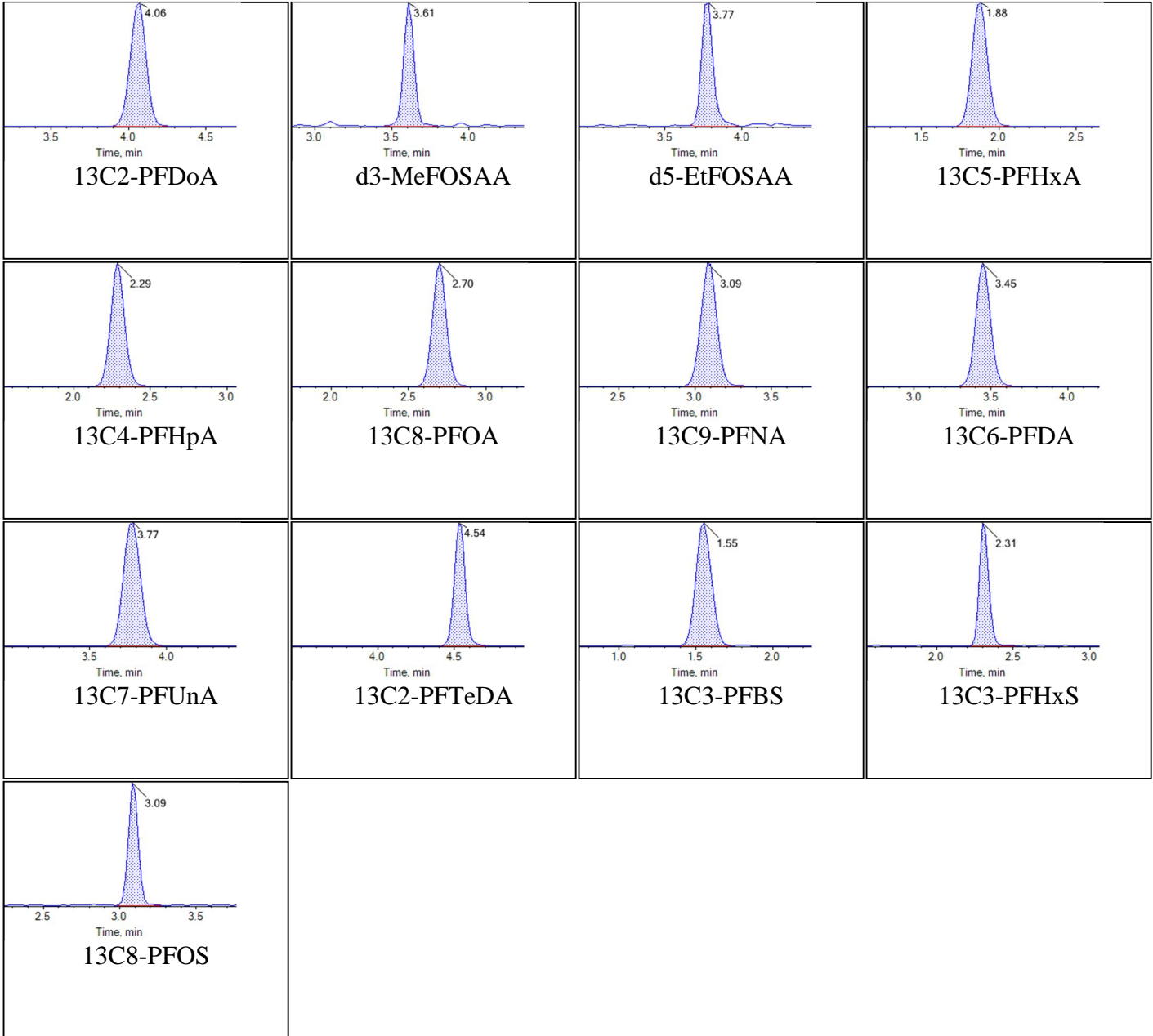


Chromatogram Report

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Printed: 25/10/2018 9:41:21 AM



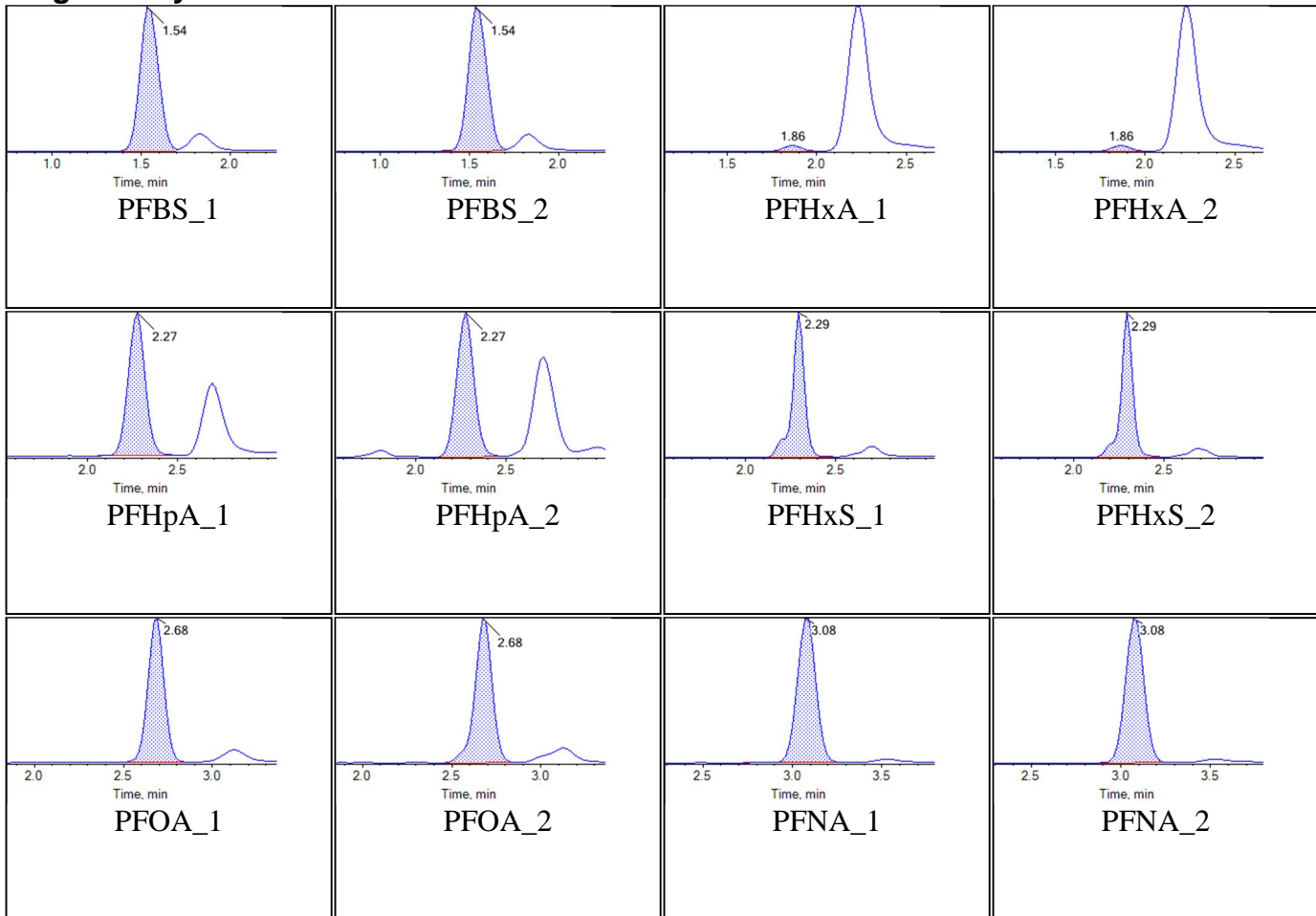
Internal Standards:



<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	29
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T00:51:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:

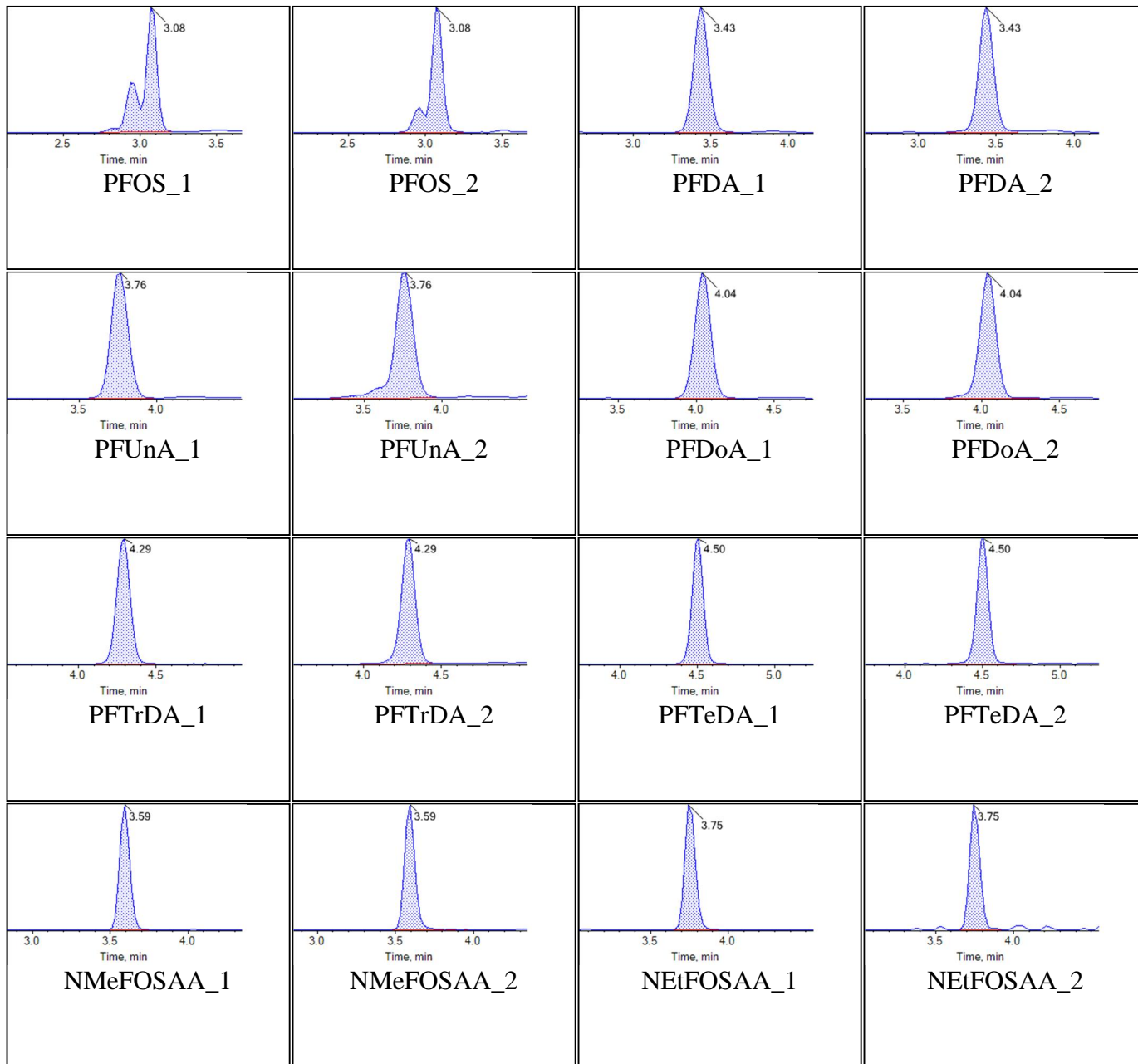




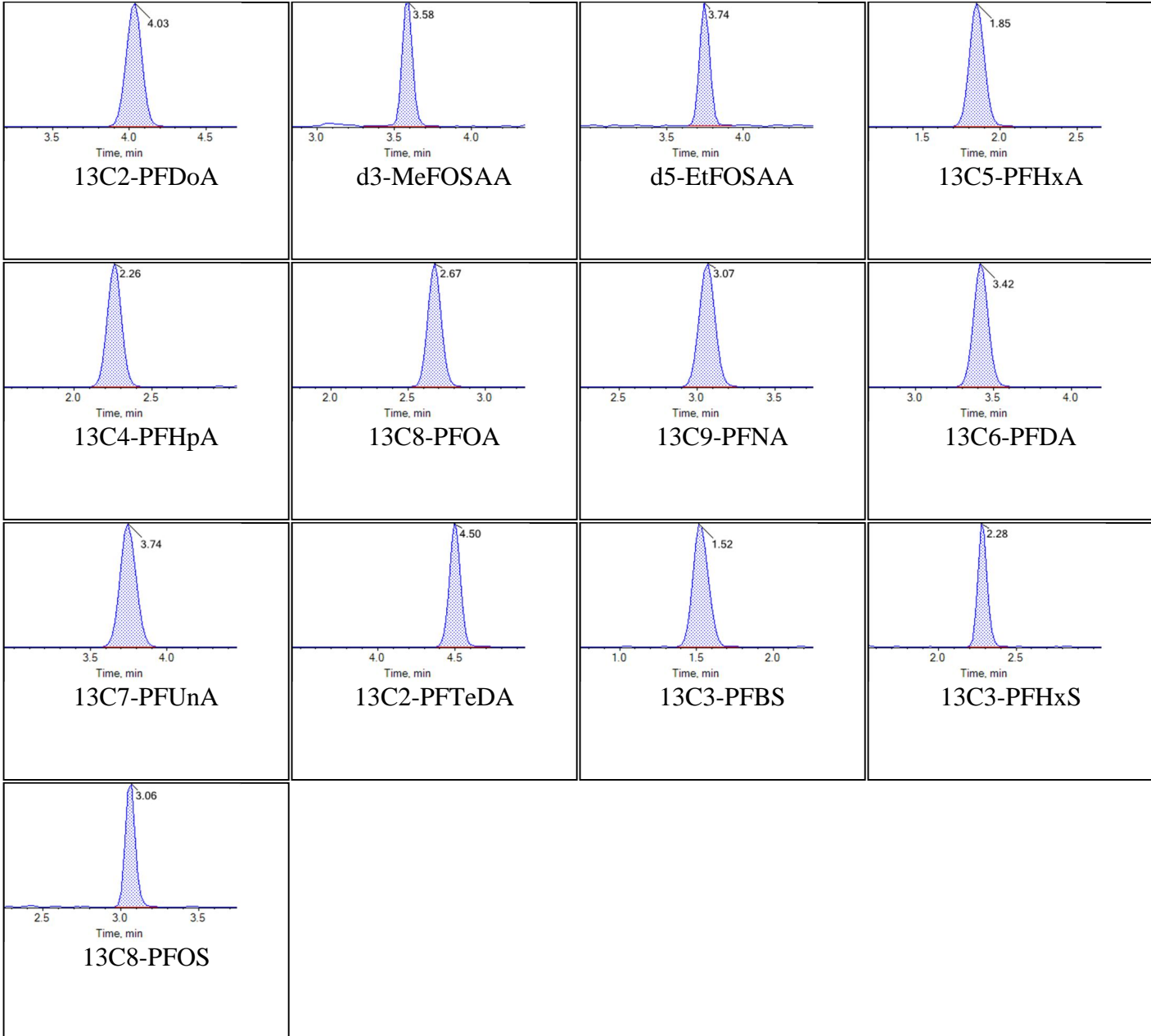


Chromatogram Report

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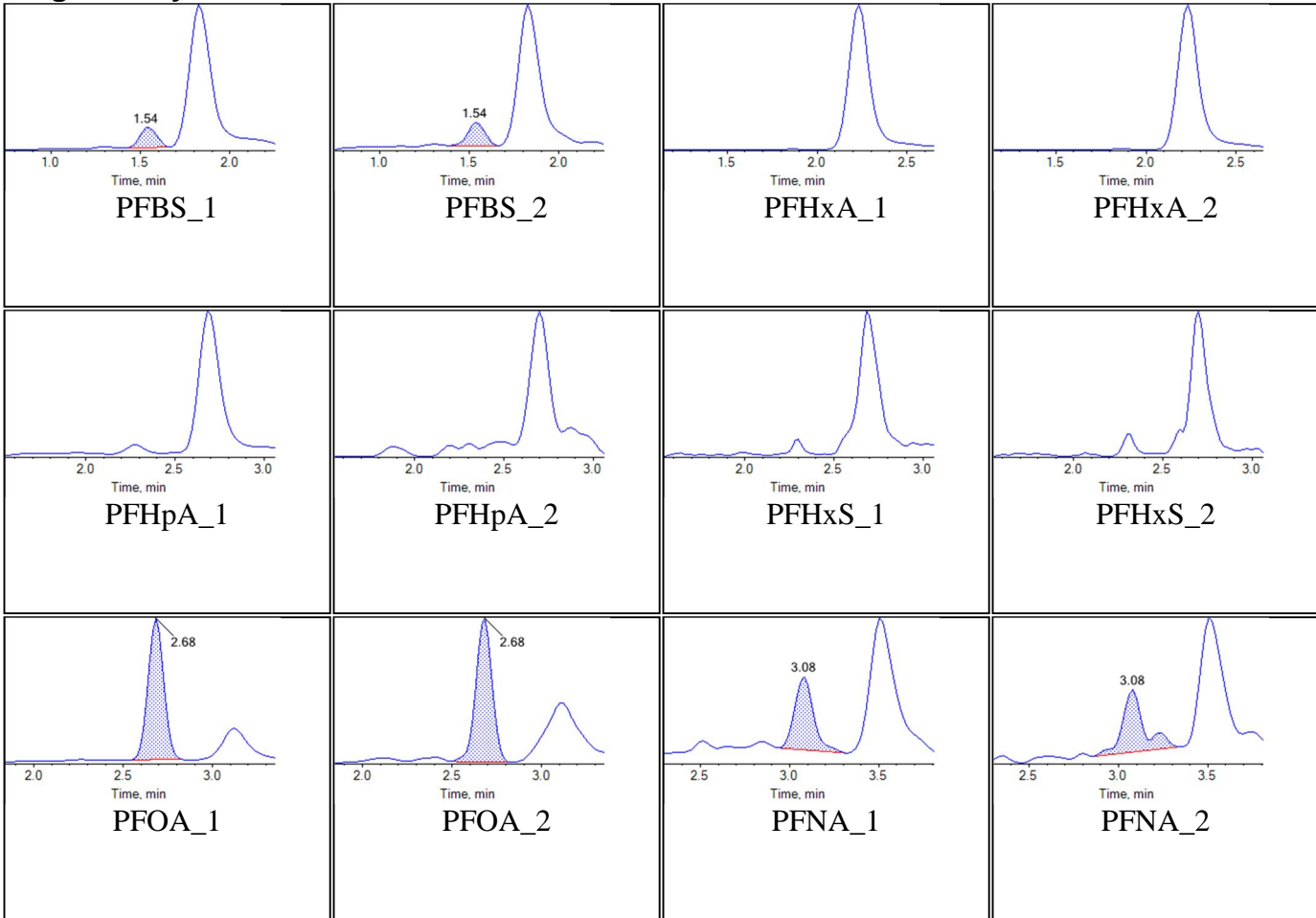
Internal Standards:



<b>Sample Name</b>	CR900PB-FS(0)	<b>Injection Vial</b>	31
<b>Sample ID</b>	Procedural Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:12:51	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

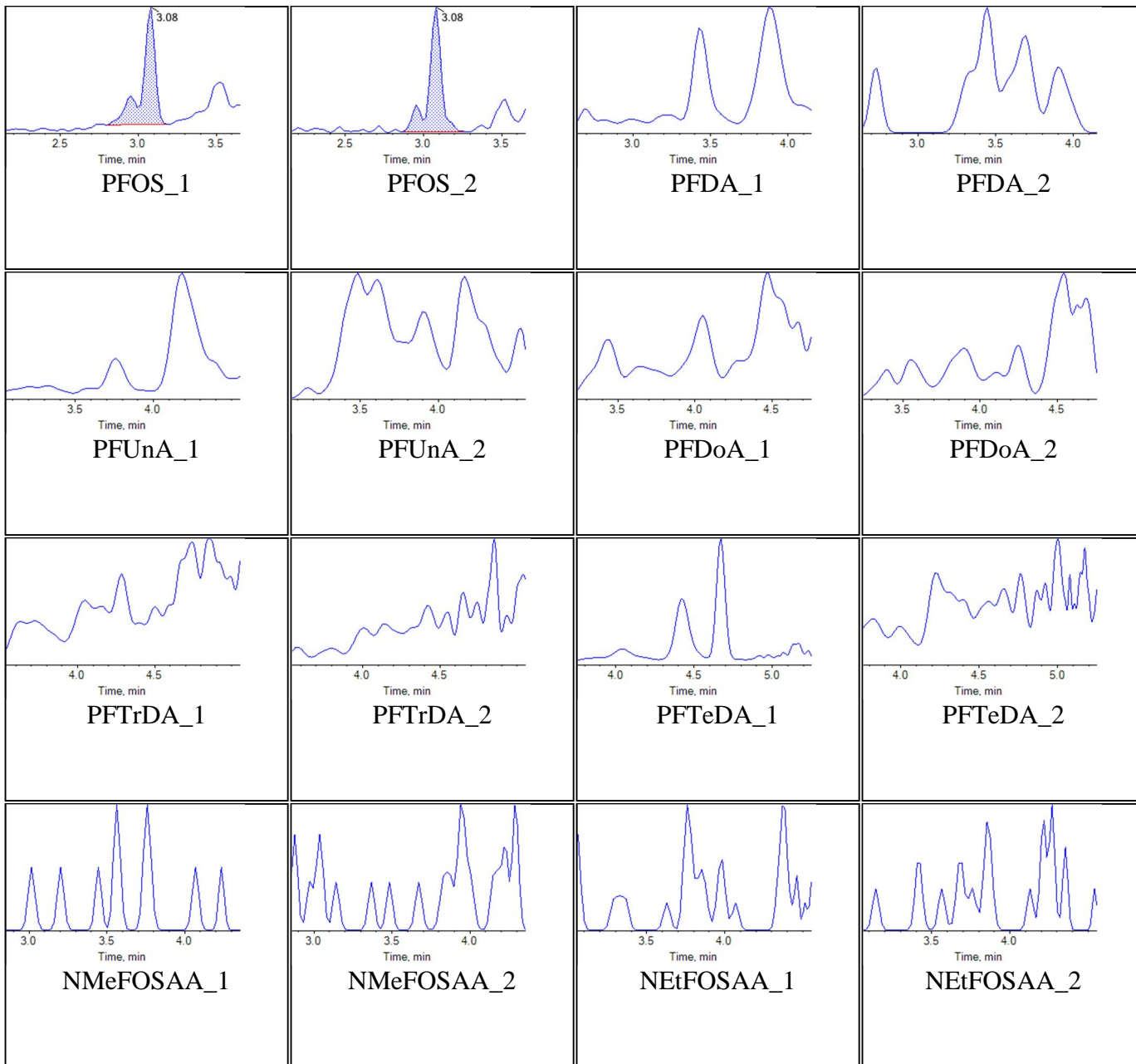
### Target Analytes:



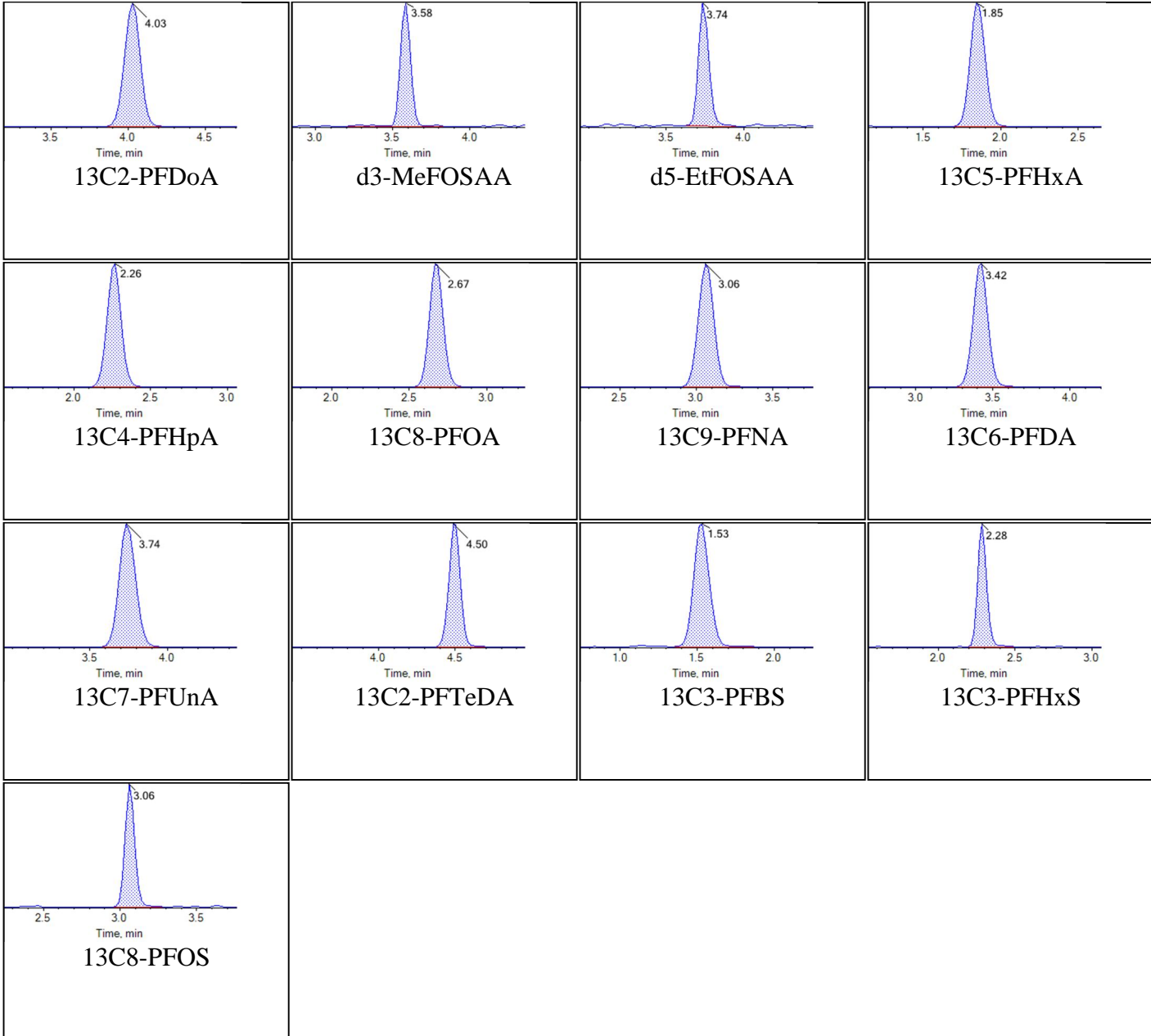


Chromatogram Report

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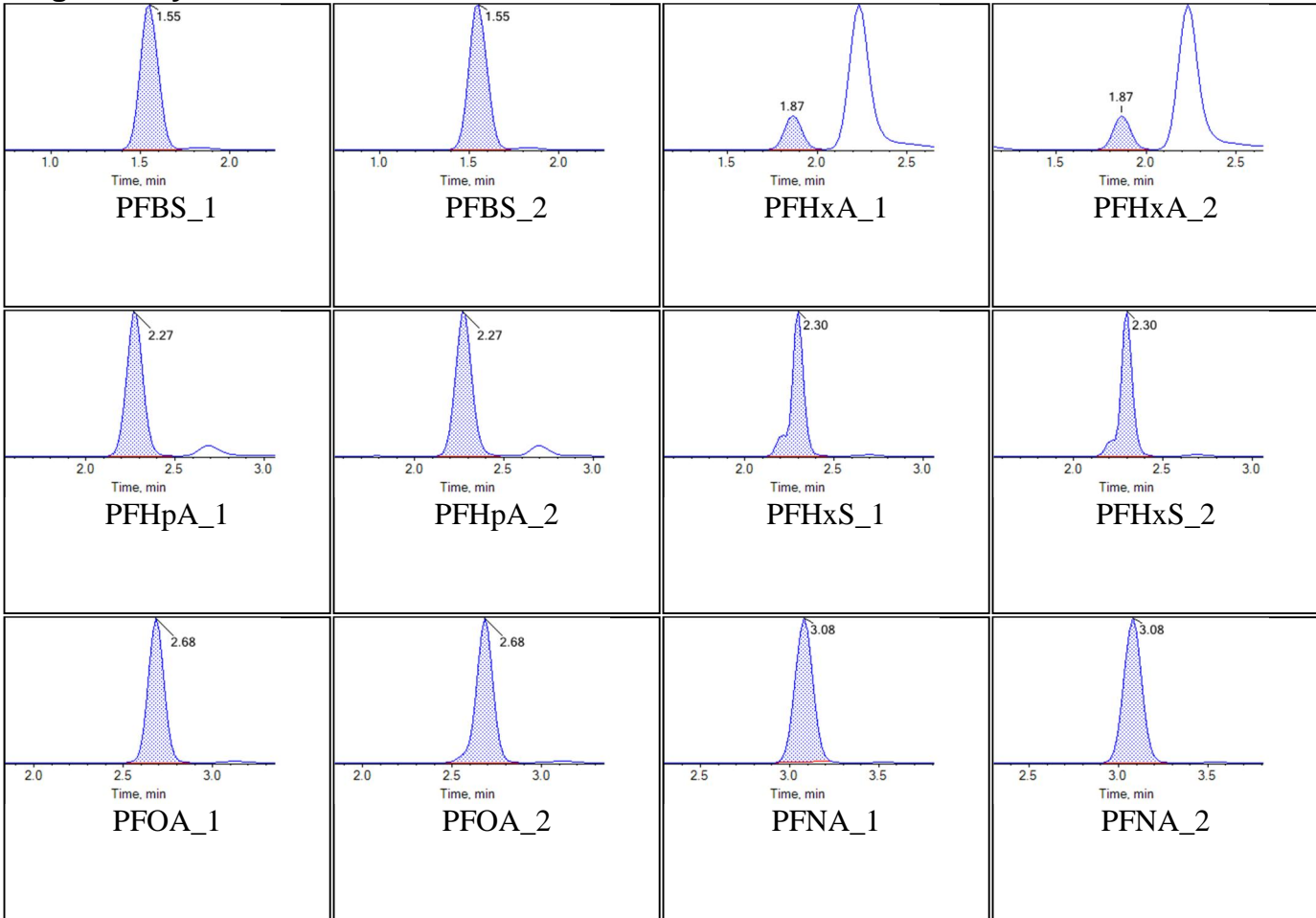
Internal Standards:



<b>Sample Name</b>	CR901LCS-FS(0)	<b>Injection Vial</b>	32
<b>Sample ID</b>	Laboratory Control Sample	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:23:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

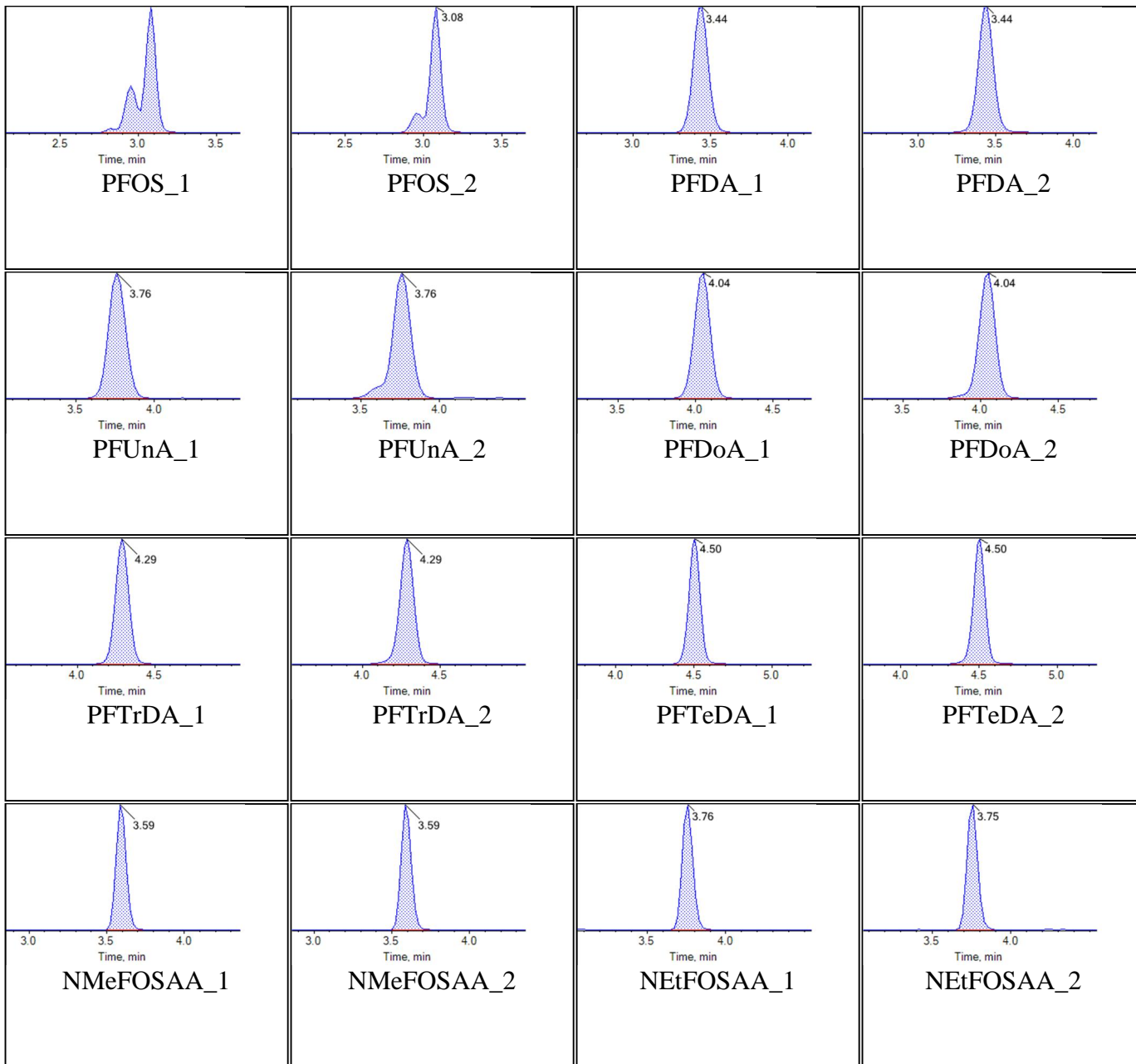
### Target Analytes:



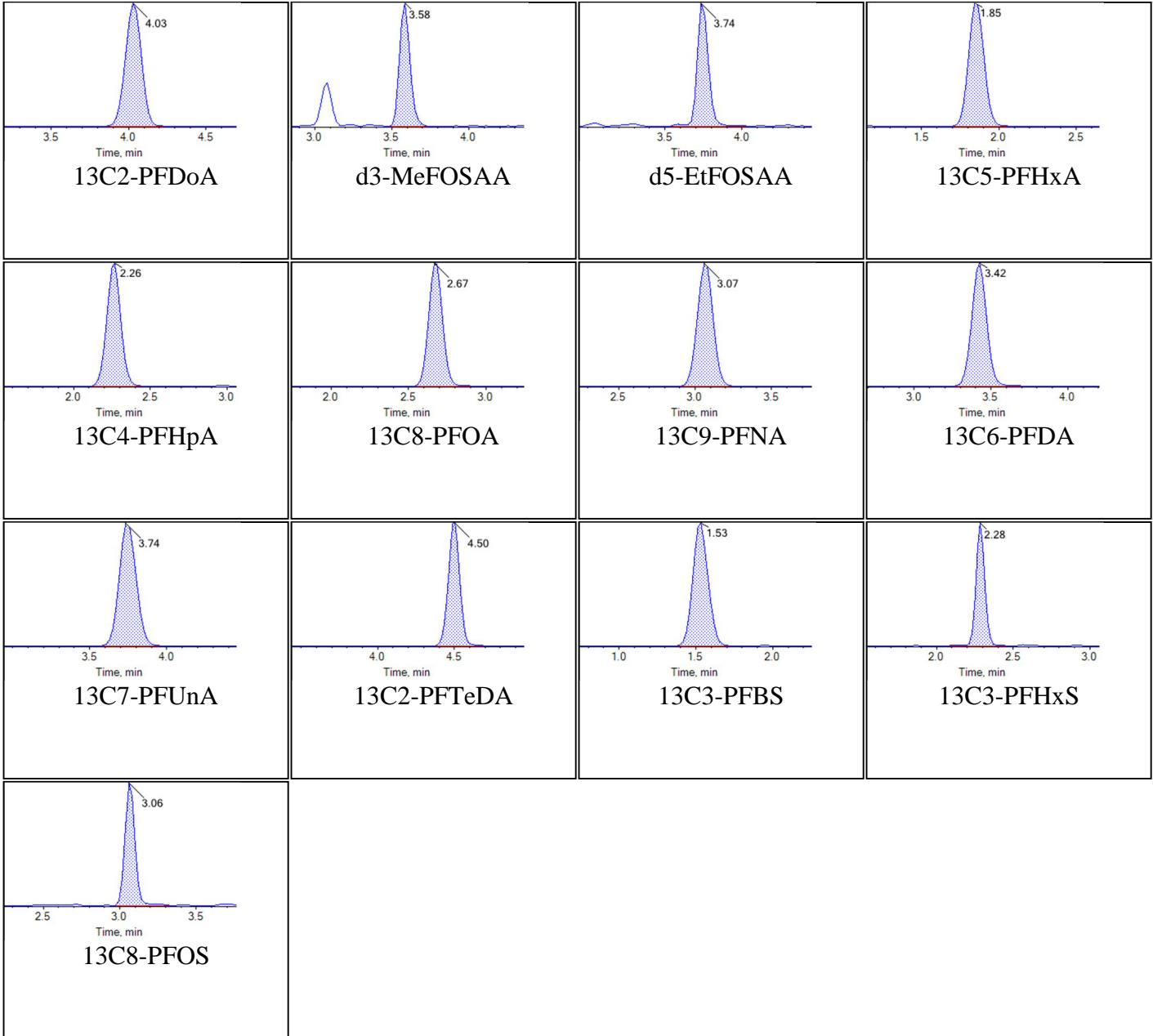


Chromatogram Report

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Internal Standards:

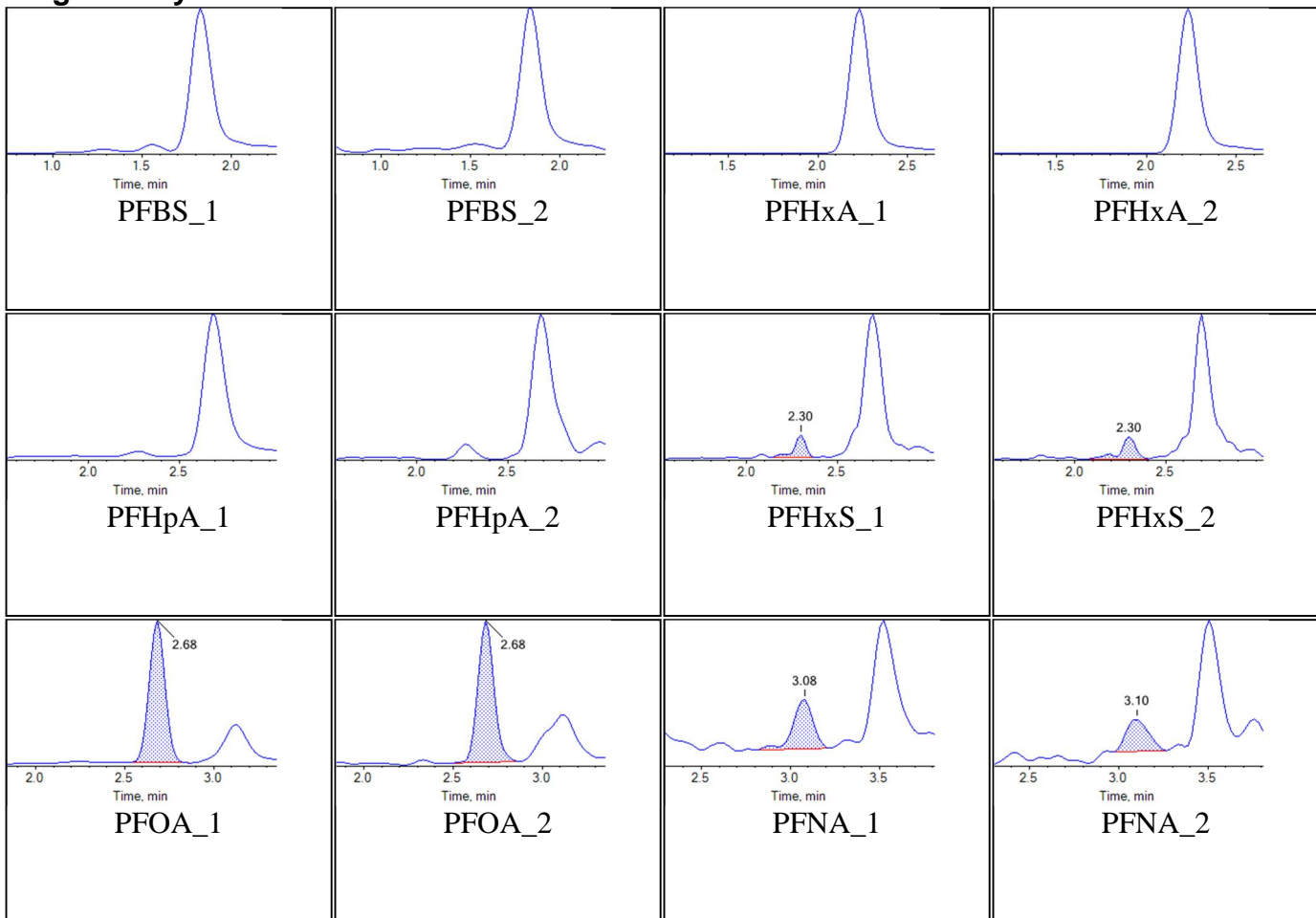




<b>Sample Name</b>	J8455-FS(0)	<b>Injection Vial</b>	33
<b>Sample ID</b>	VC-SO-FB07-09262018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:34:36	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

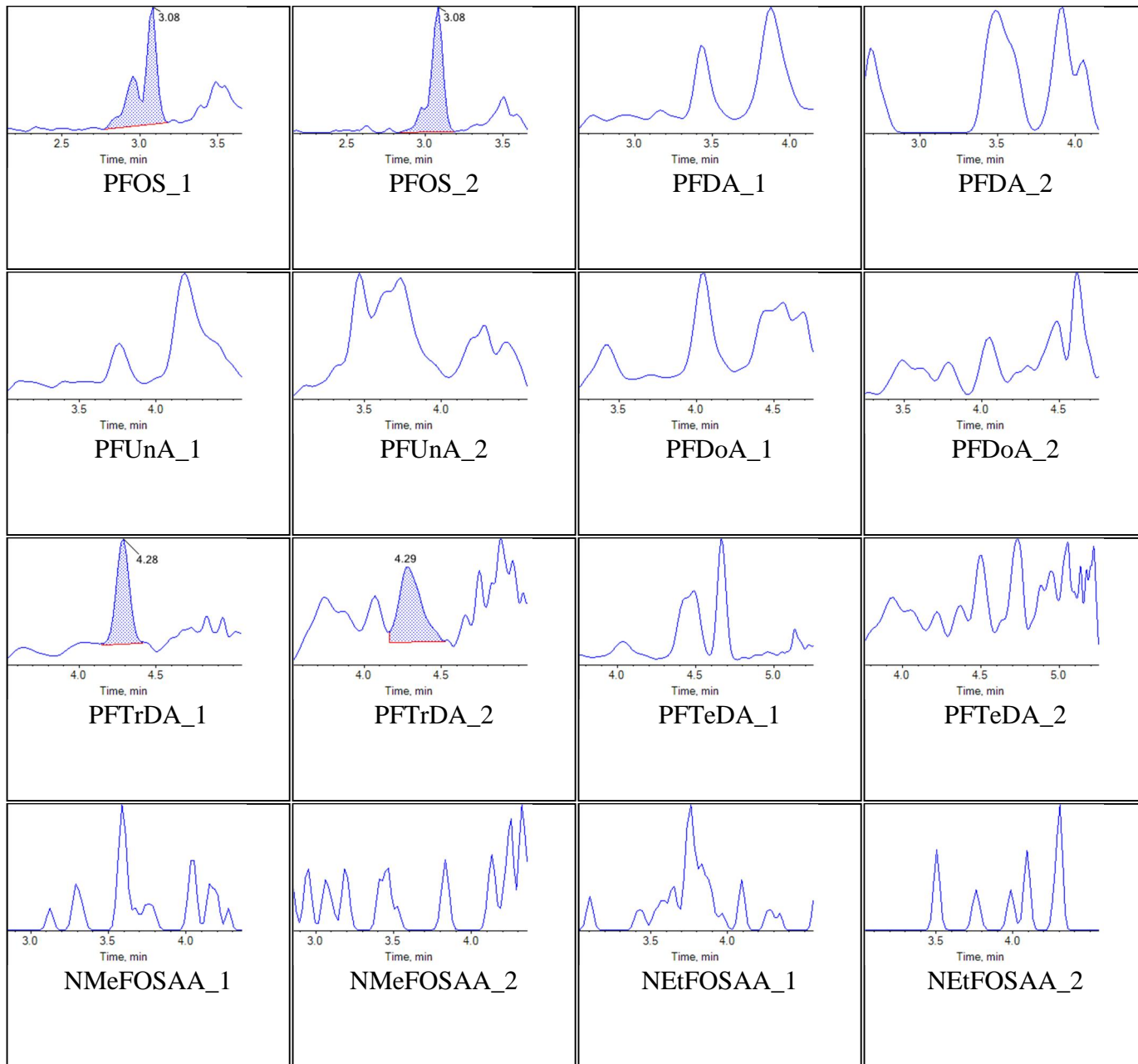
### Target Analytes:



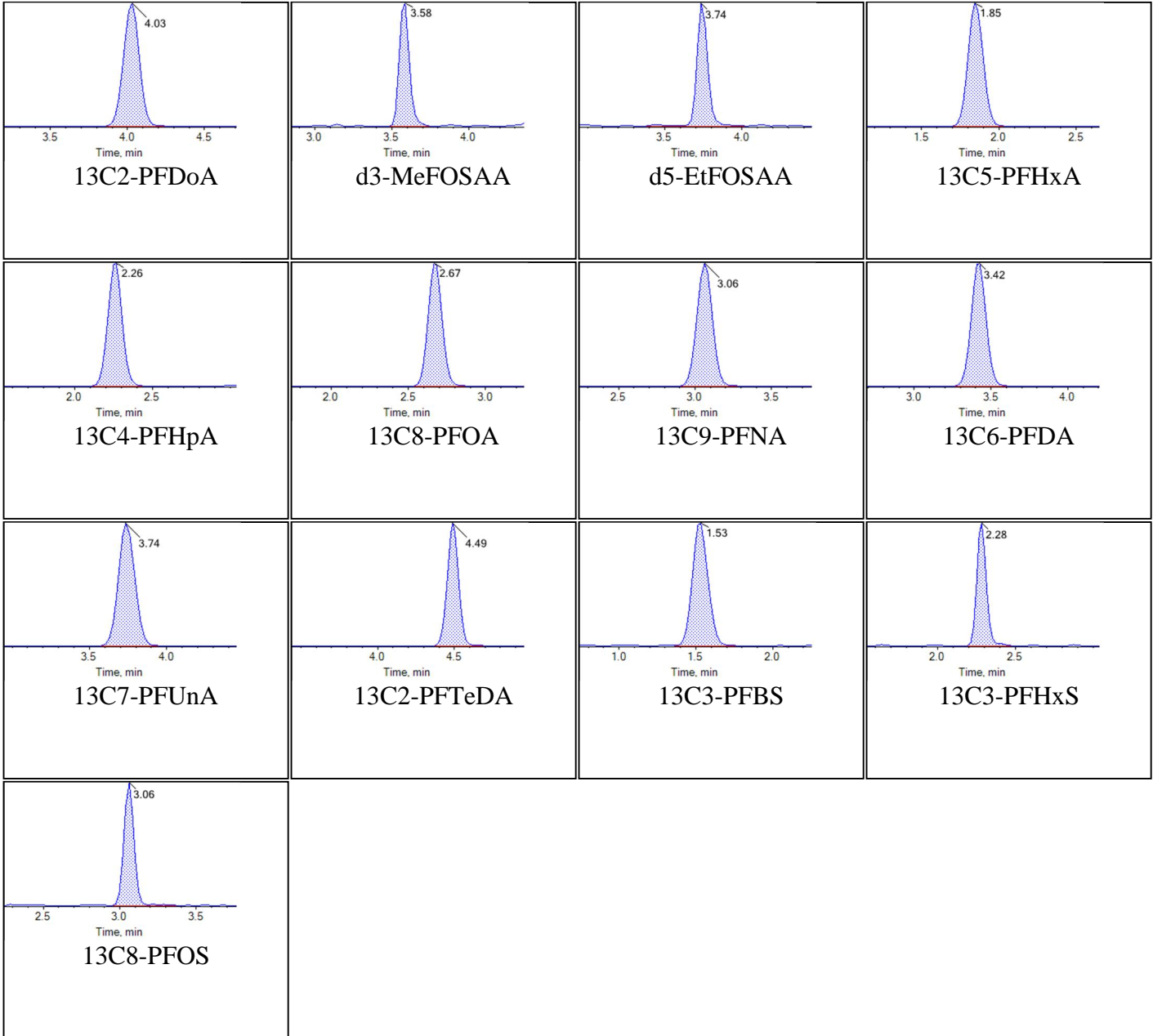


Chromatogram Report

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Printed: 25/10/2018 9:41:55 AM



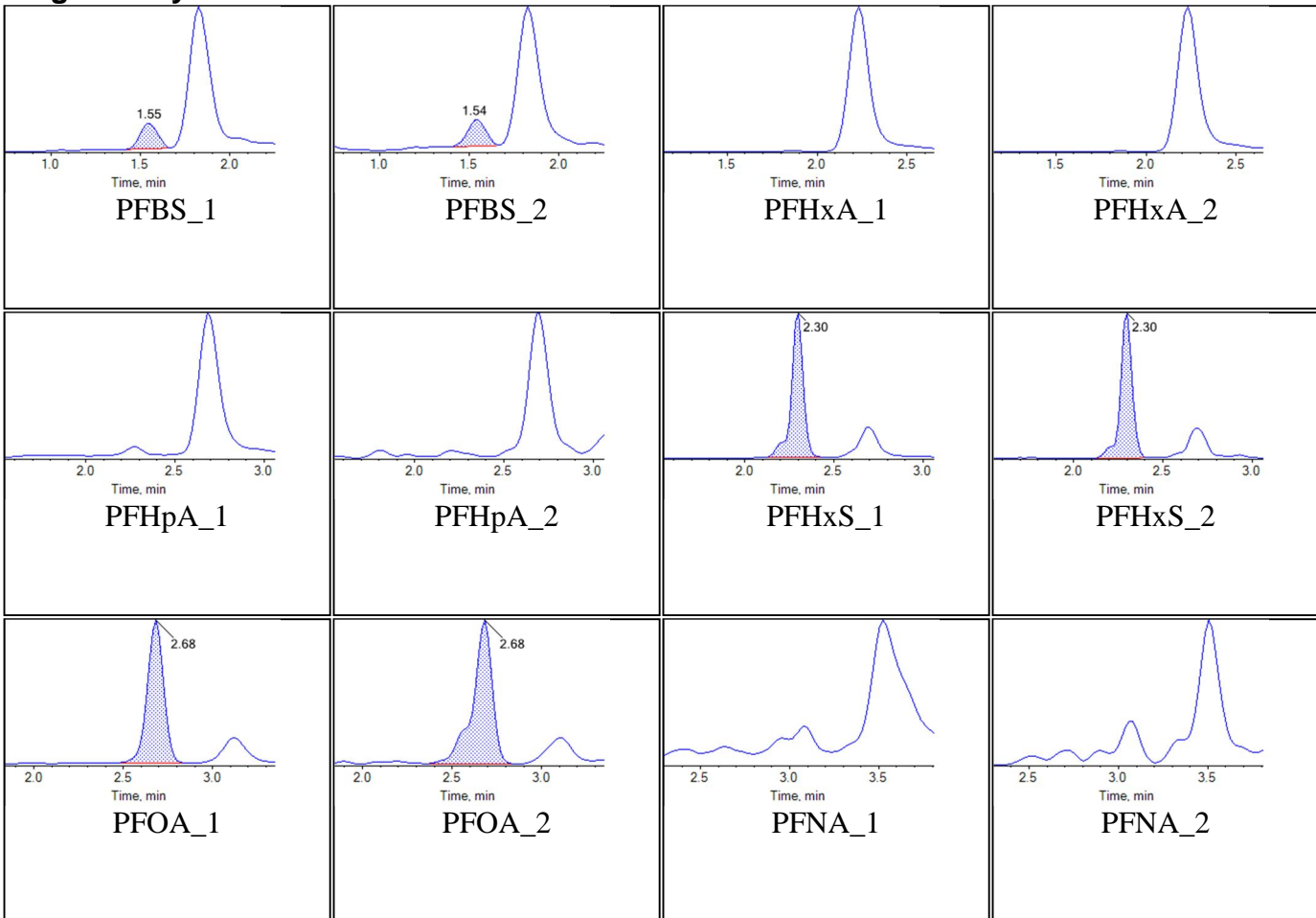
Internal Standards:



<b>Sample Name</b>	J8456-FS(0)	<b>Injection Vial</b>	34
<b>Sample ID</b>	VC-SO-EB07-09262018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:45:28	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

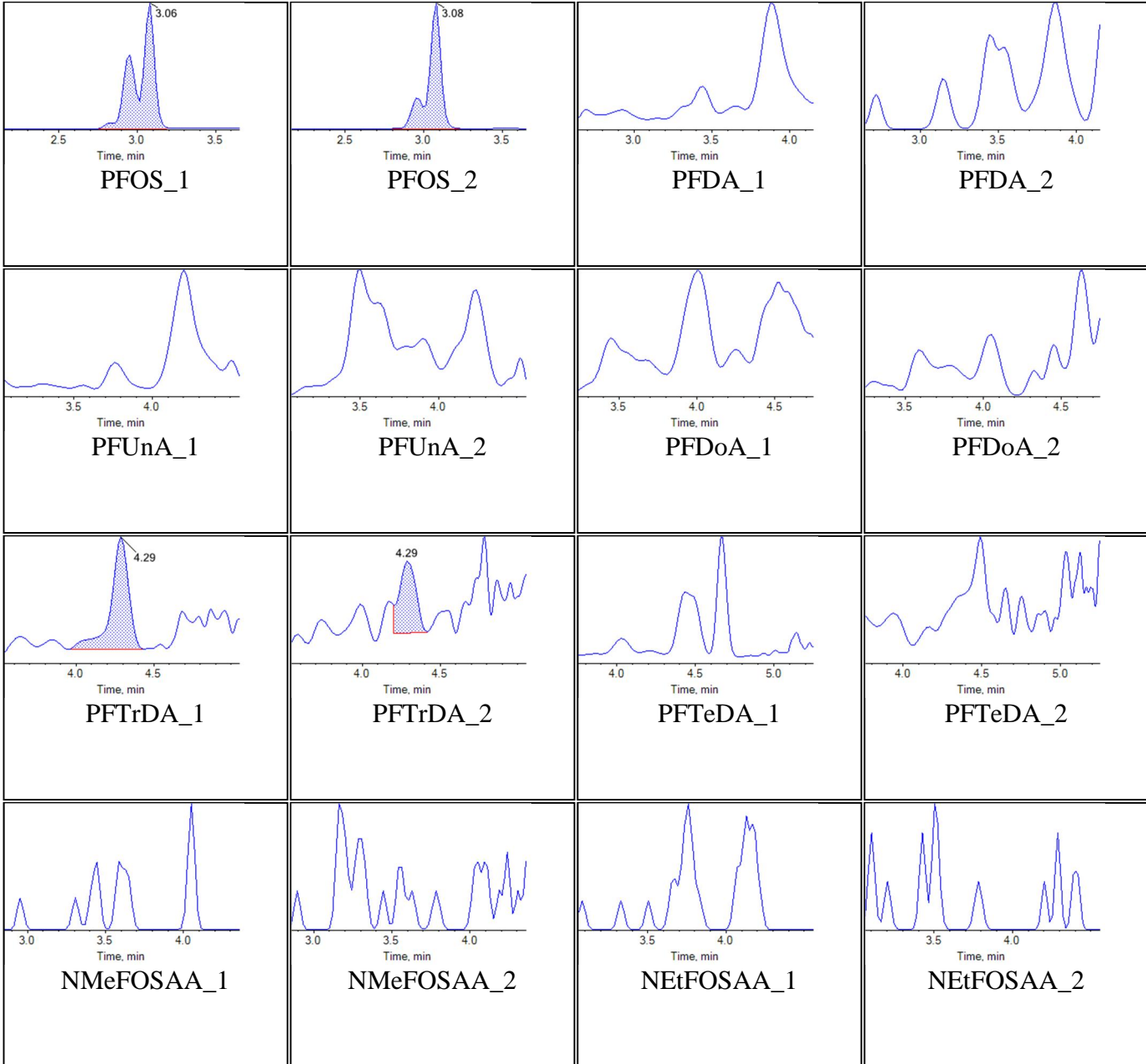
### Target Analytes:



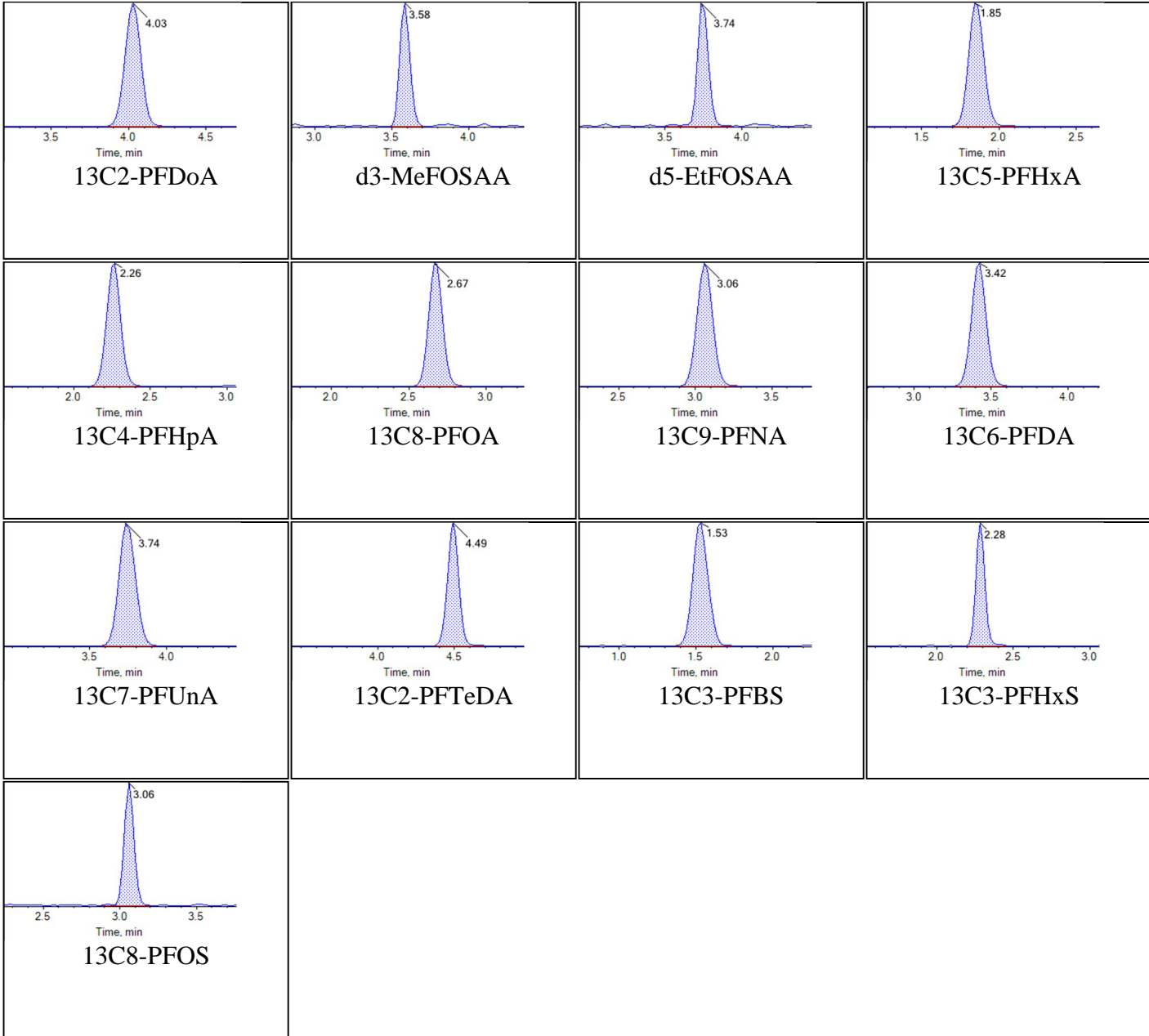


Chromatogram Report

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Printed: 25/10/2018 9:41:59 AM



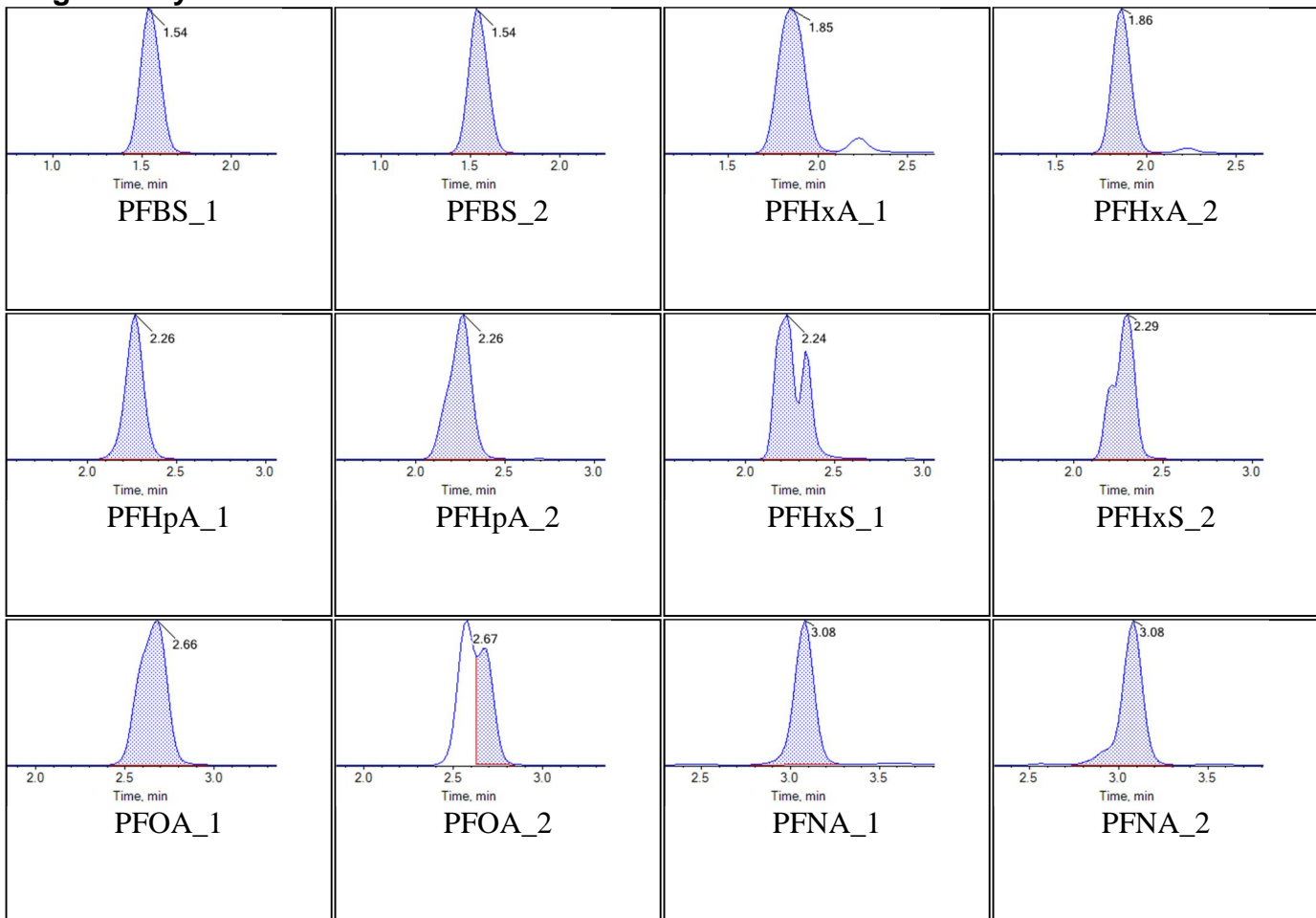
Internal Standards:



<b>Sample Name</b>	J8457-FS(0)	<b>Injection Vial</b>	35
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:56:20	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

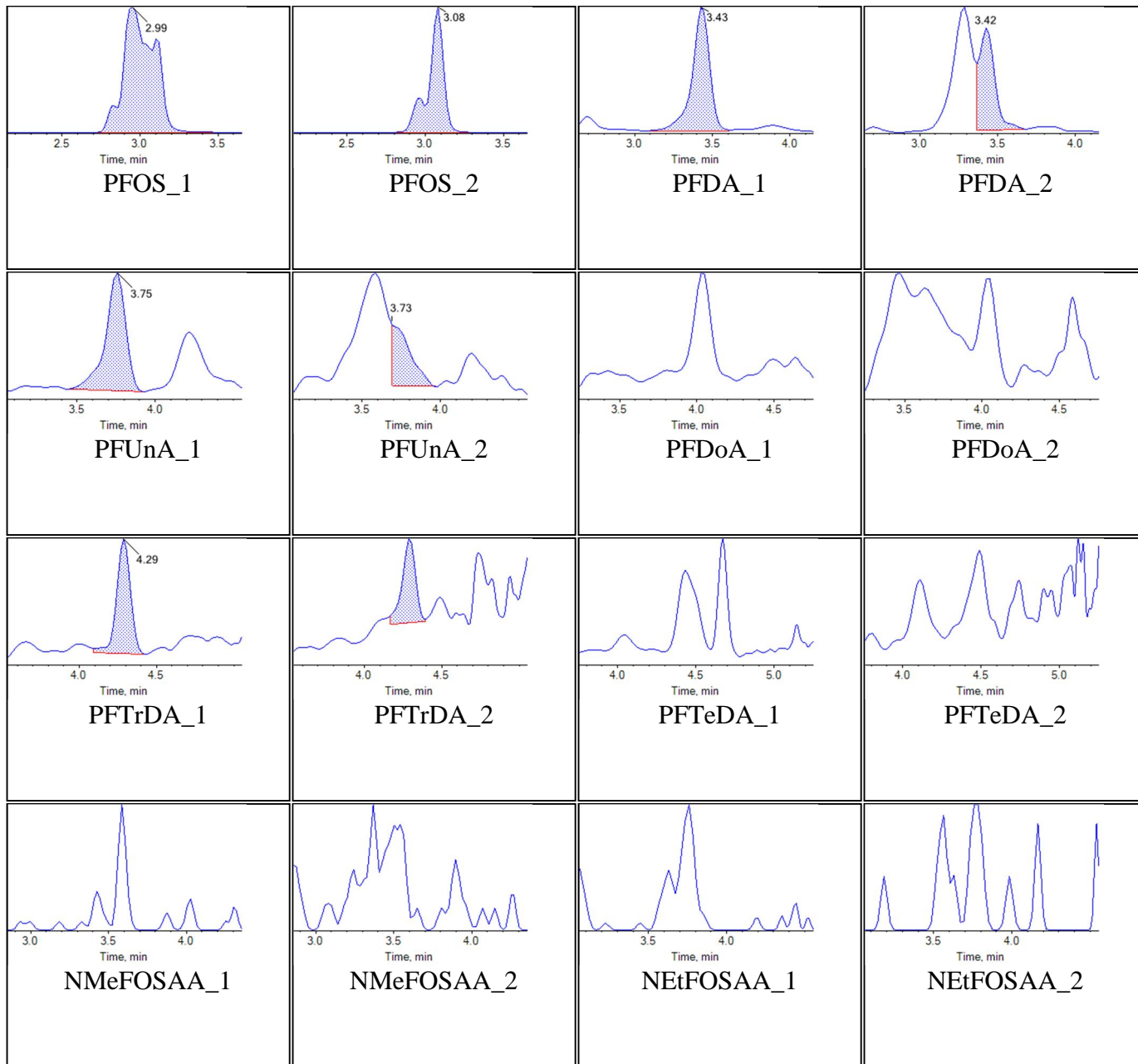
### Target Analytes:





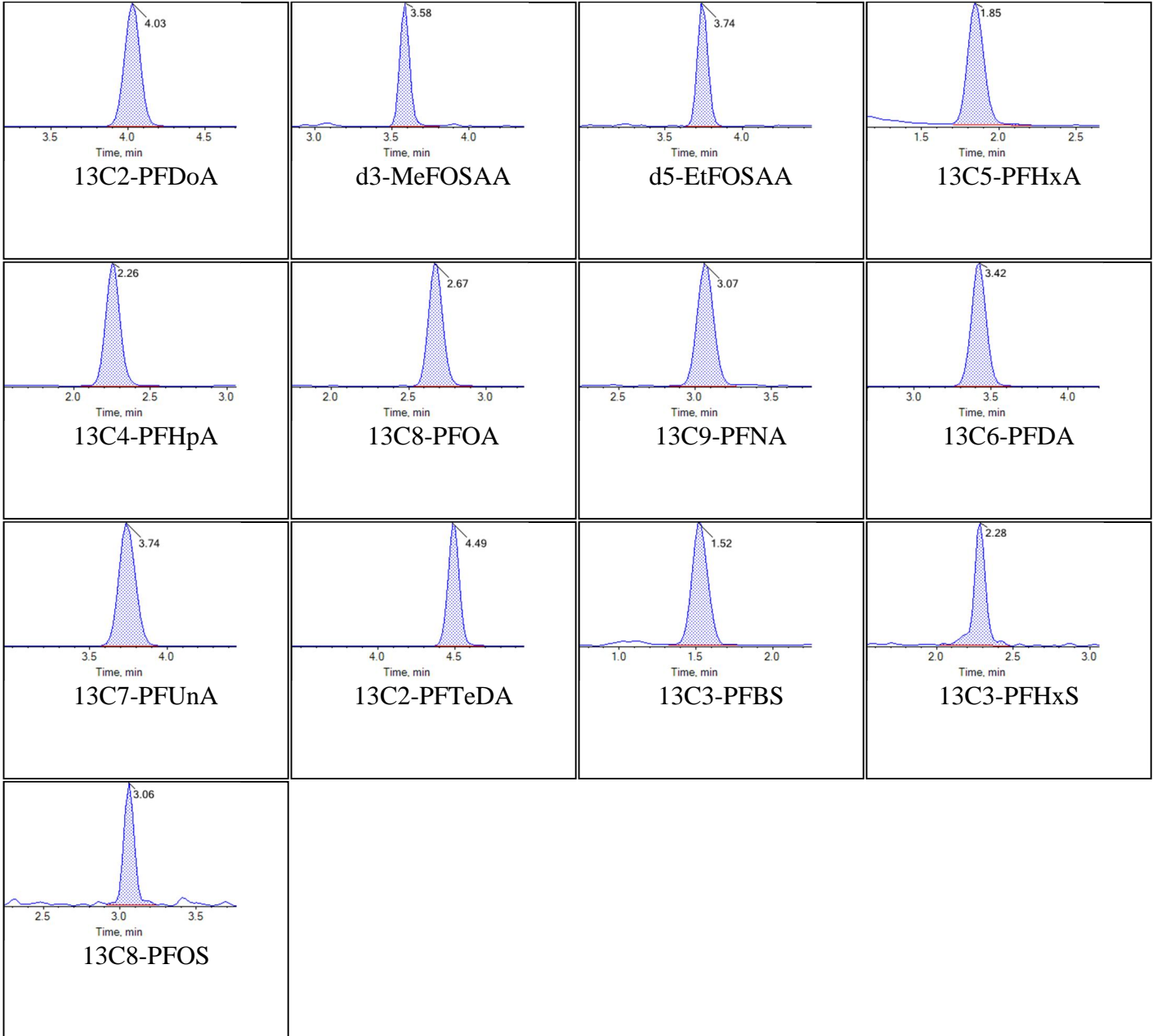
Chromatogram Report

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Internal Standards:

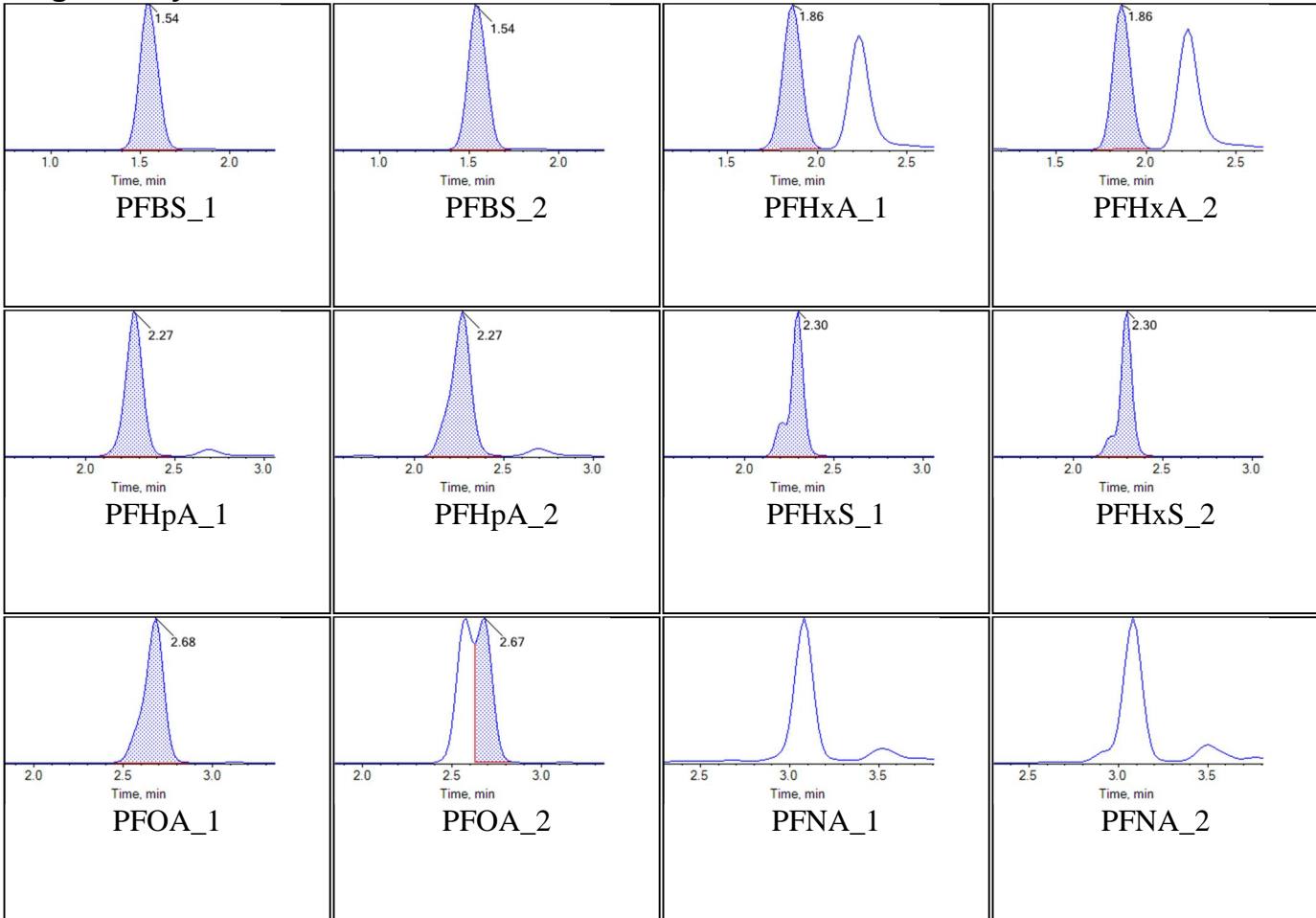




<b>Sample Name</b>	J8457-FS-D(3)	<b>Injection Vial</b>	36
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:07:11	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

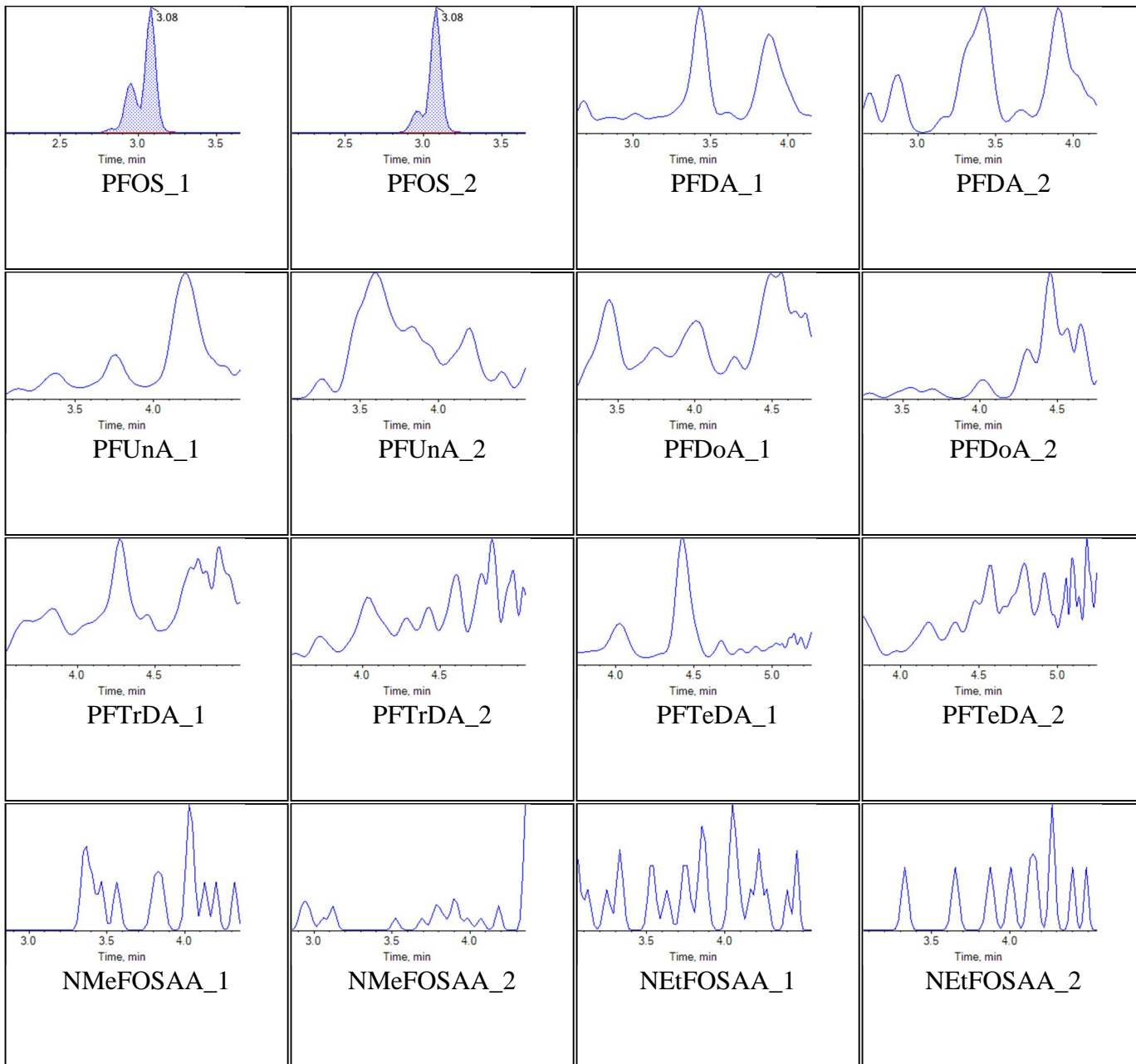
### Target Analytes:



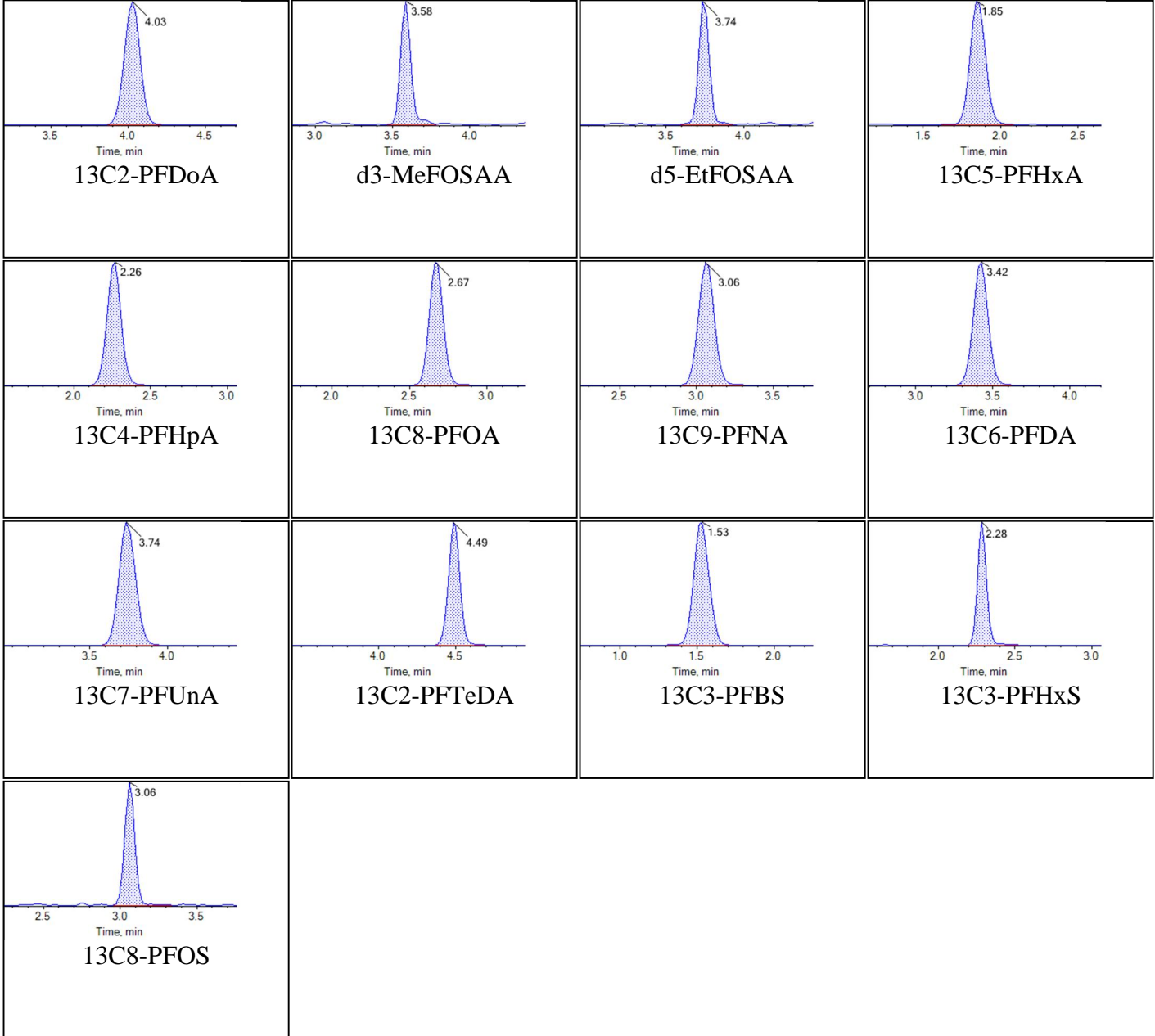


Chromatogram Report

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Printed: 25/10/2018 9:42:09 AM



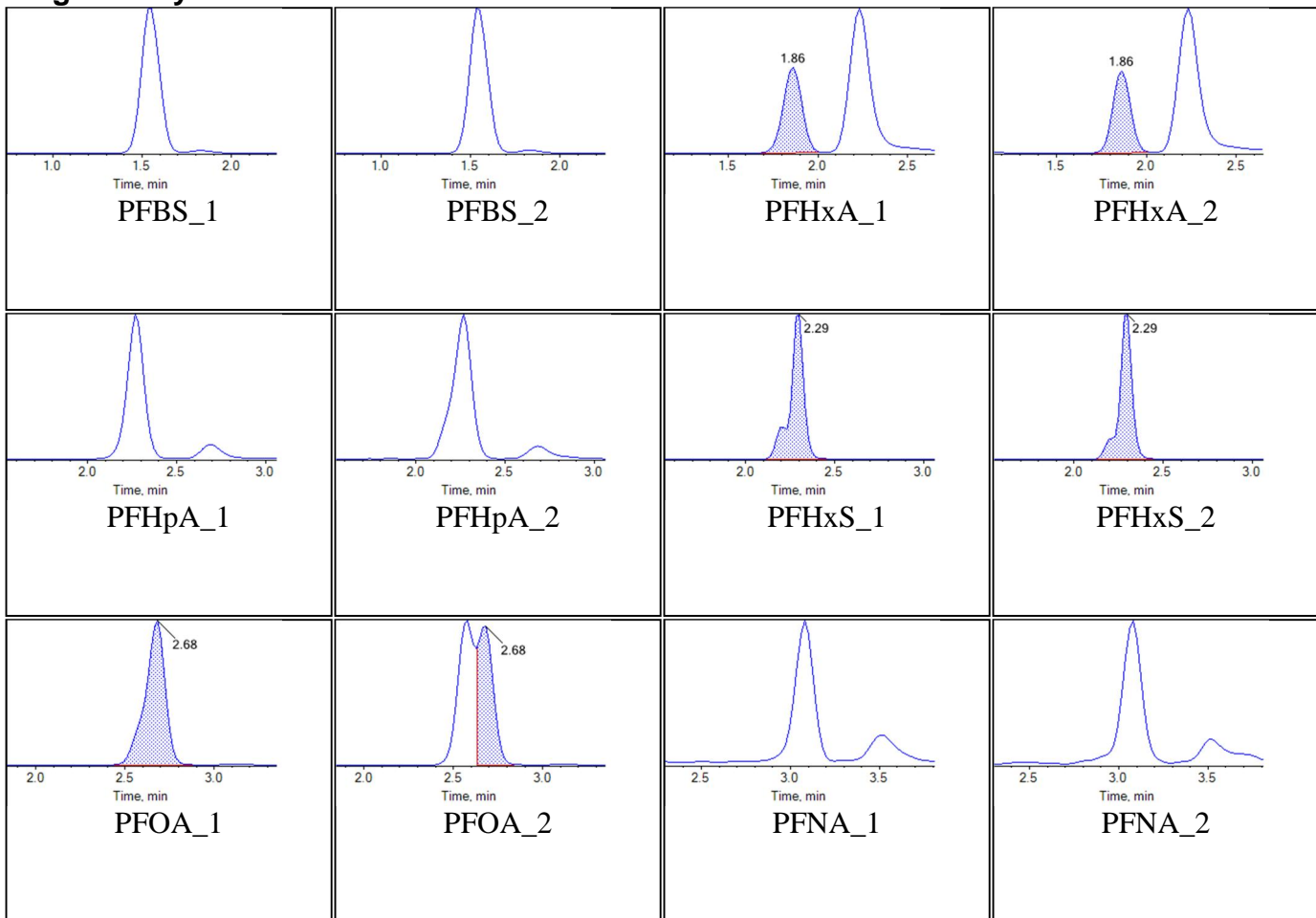
Internal Standards:



<b>Sample Name</b>	J8457-FS-D(5)	<b>Injection Vial</b>	37
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:18:02	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

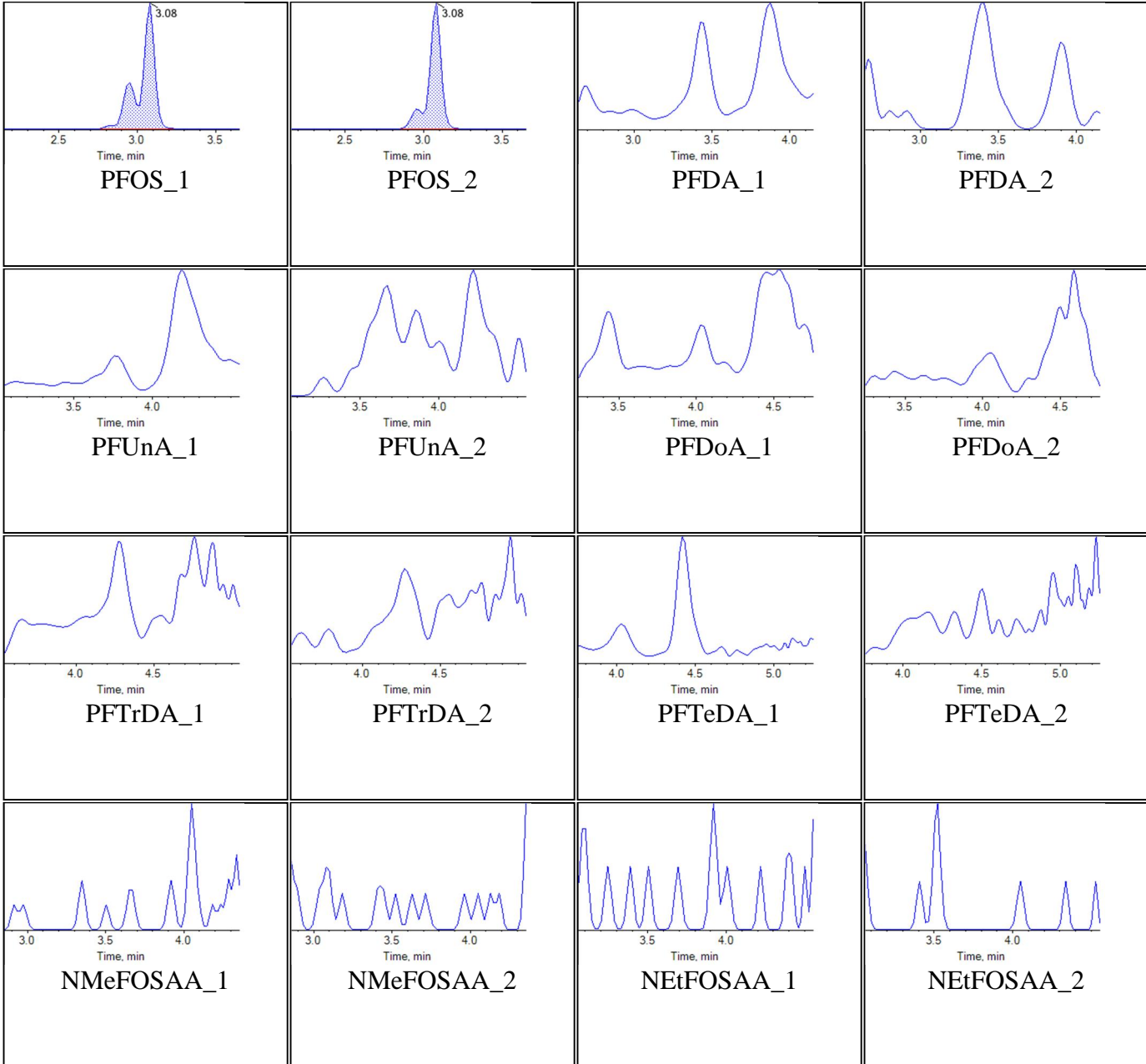
### Target Analytes:



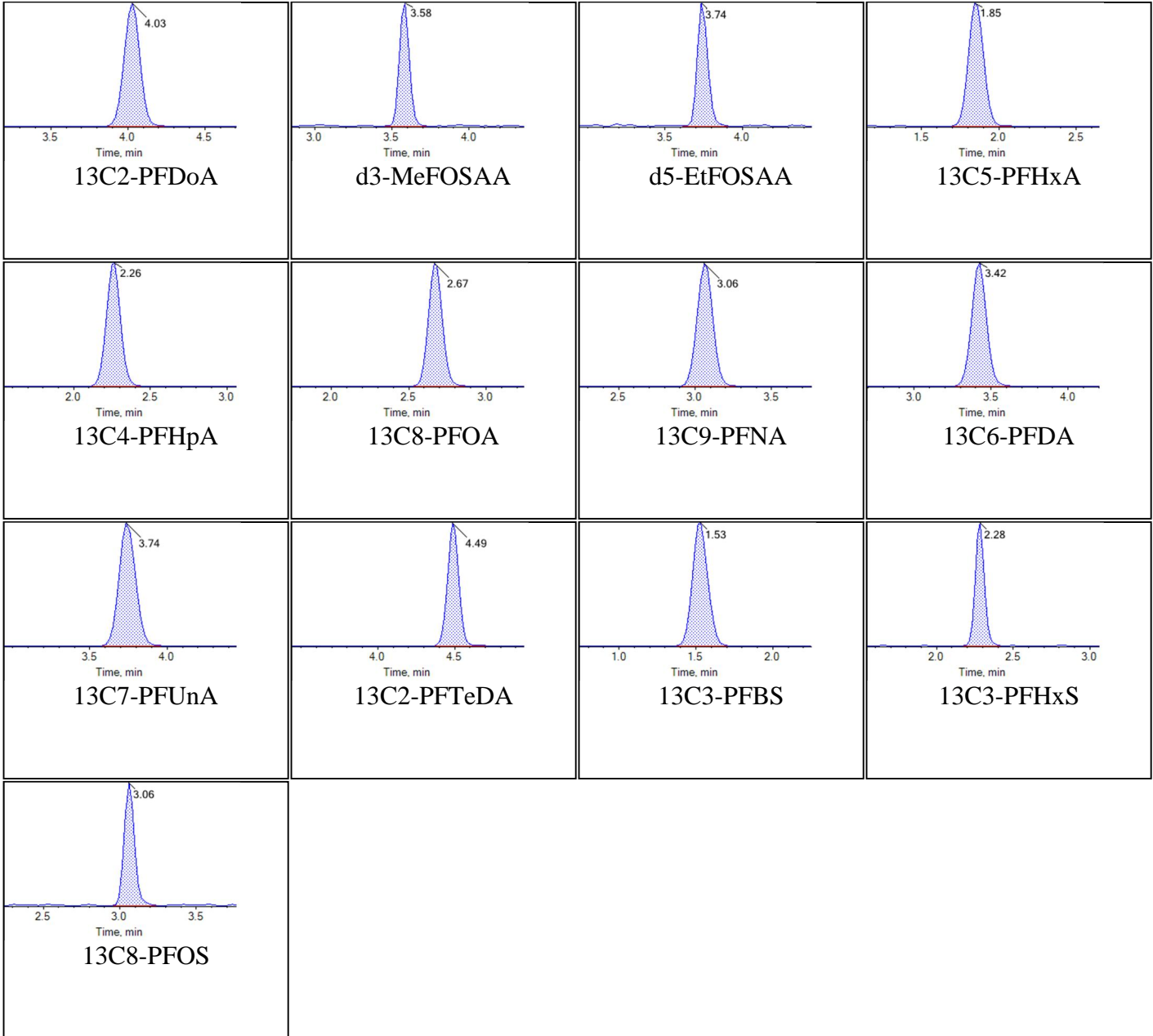


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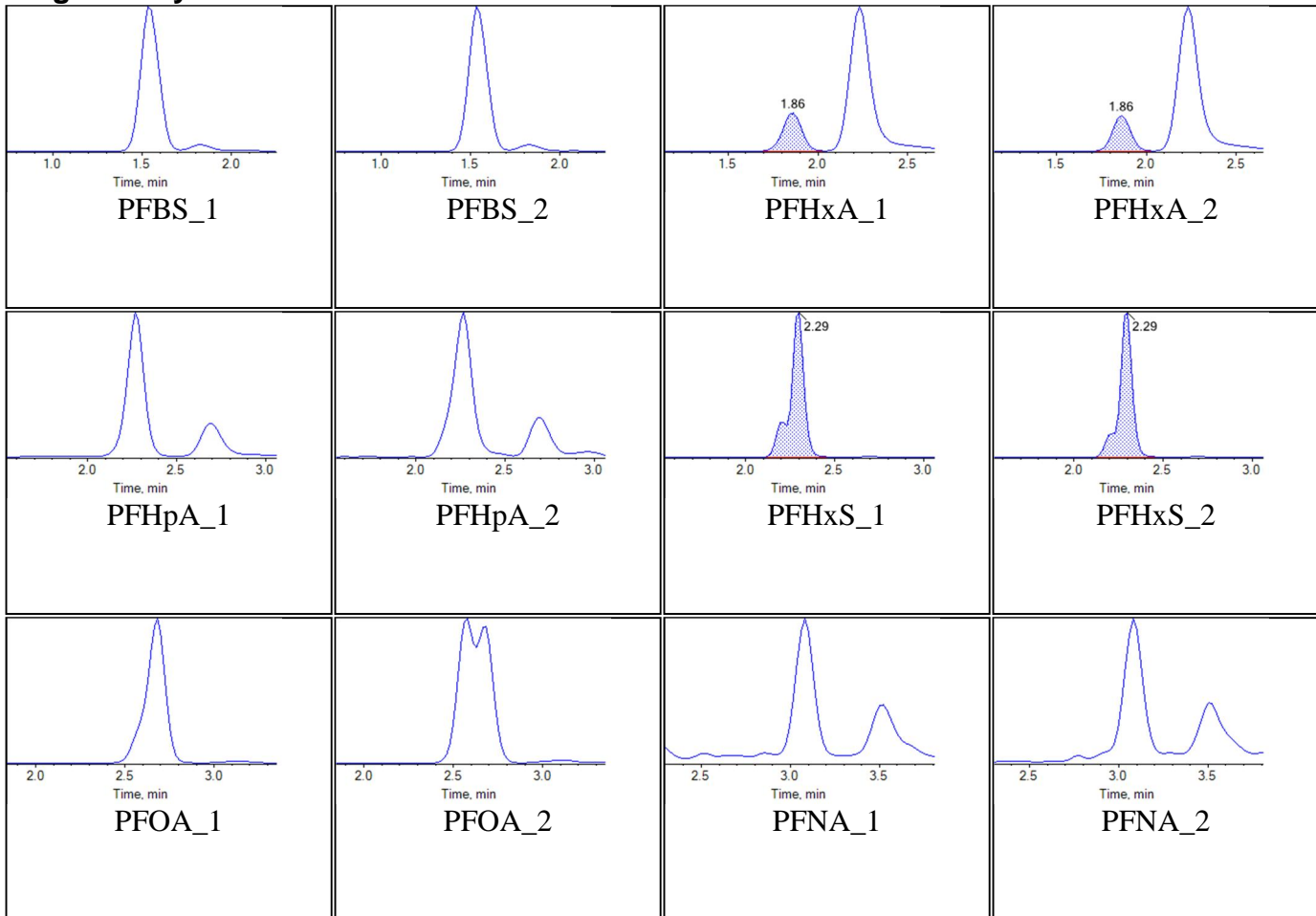
Internal Standards:



<b>Sample Name</b>	J8457-FS-D(7)	<b>Injection Vial</b>	38
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:28:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:

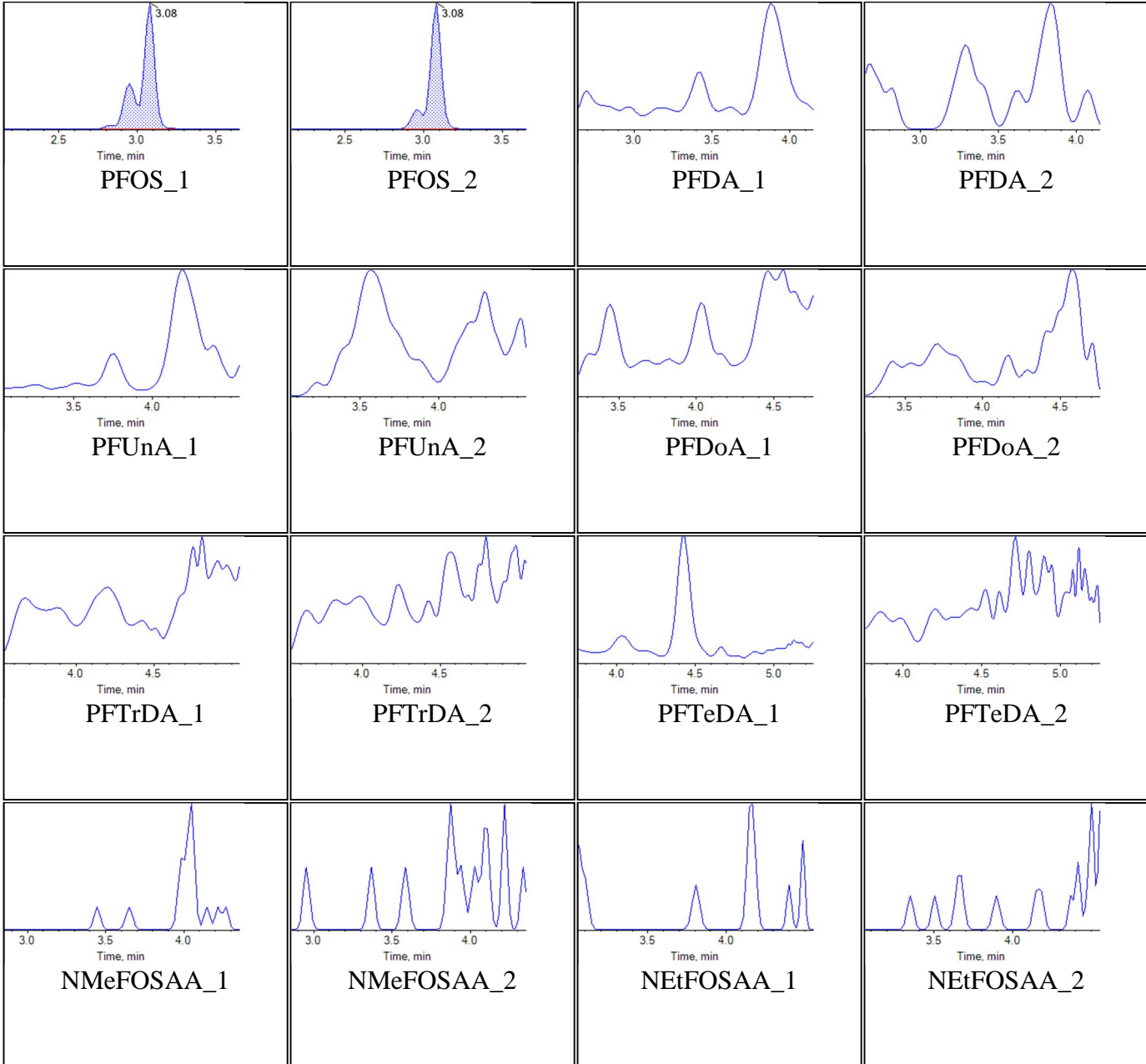




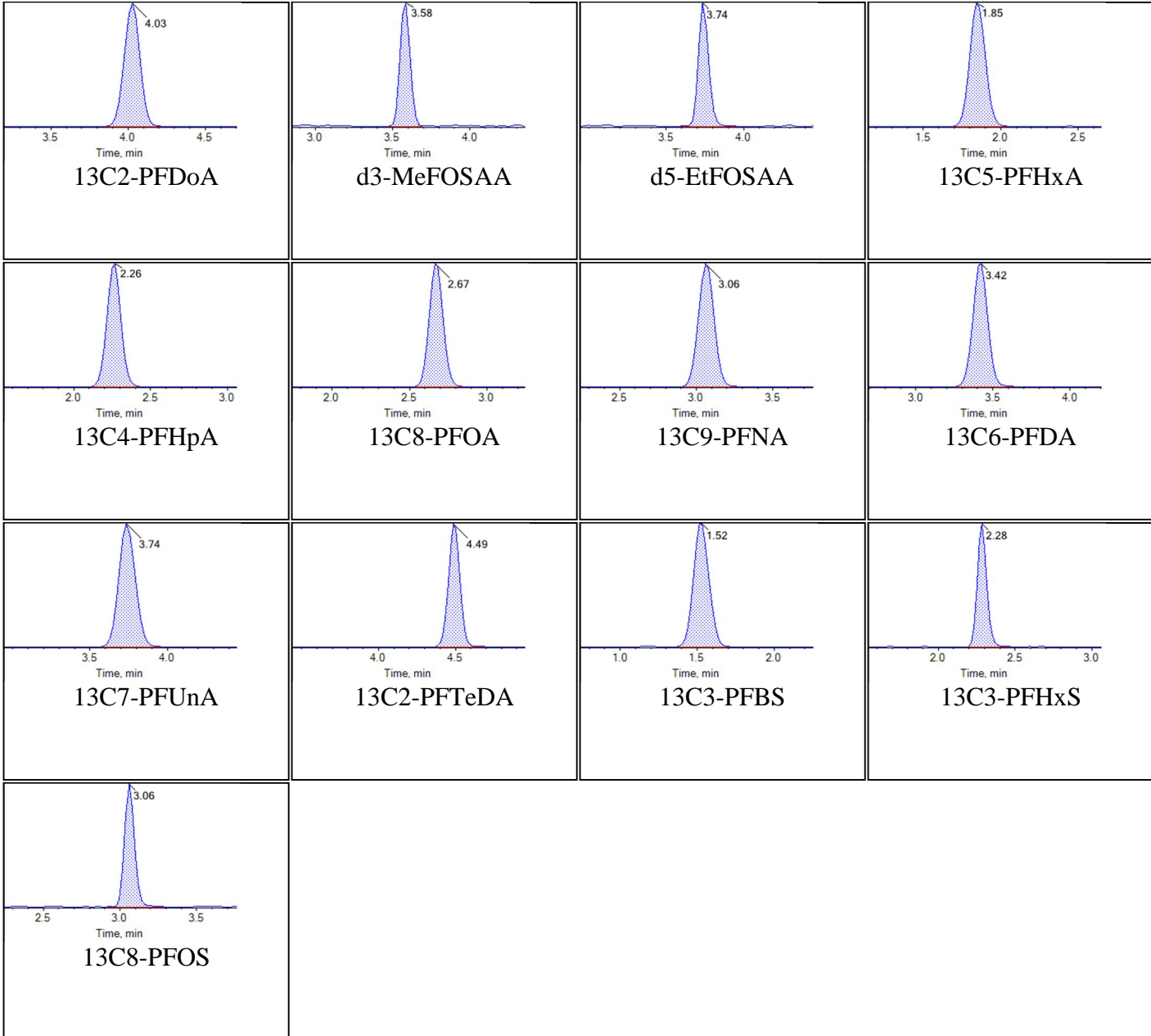


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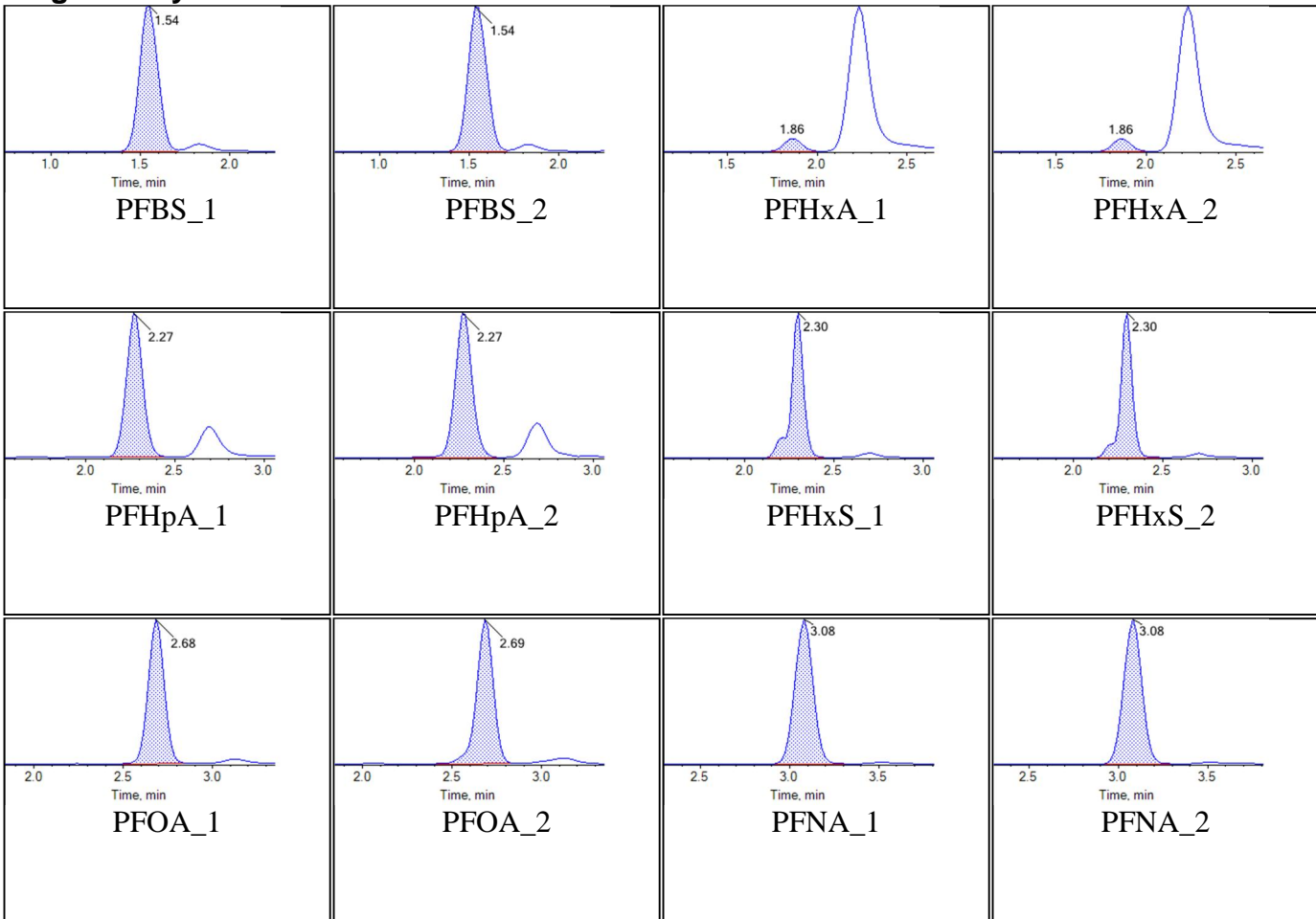
Internal Standards:



<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	39
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:39:48	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

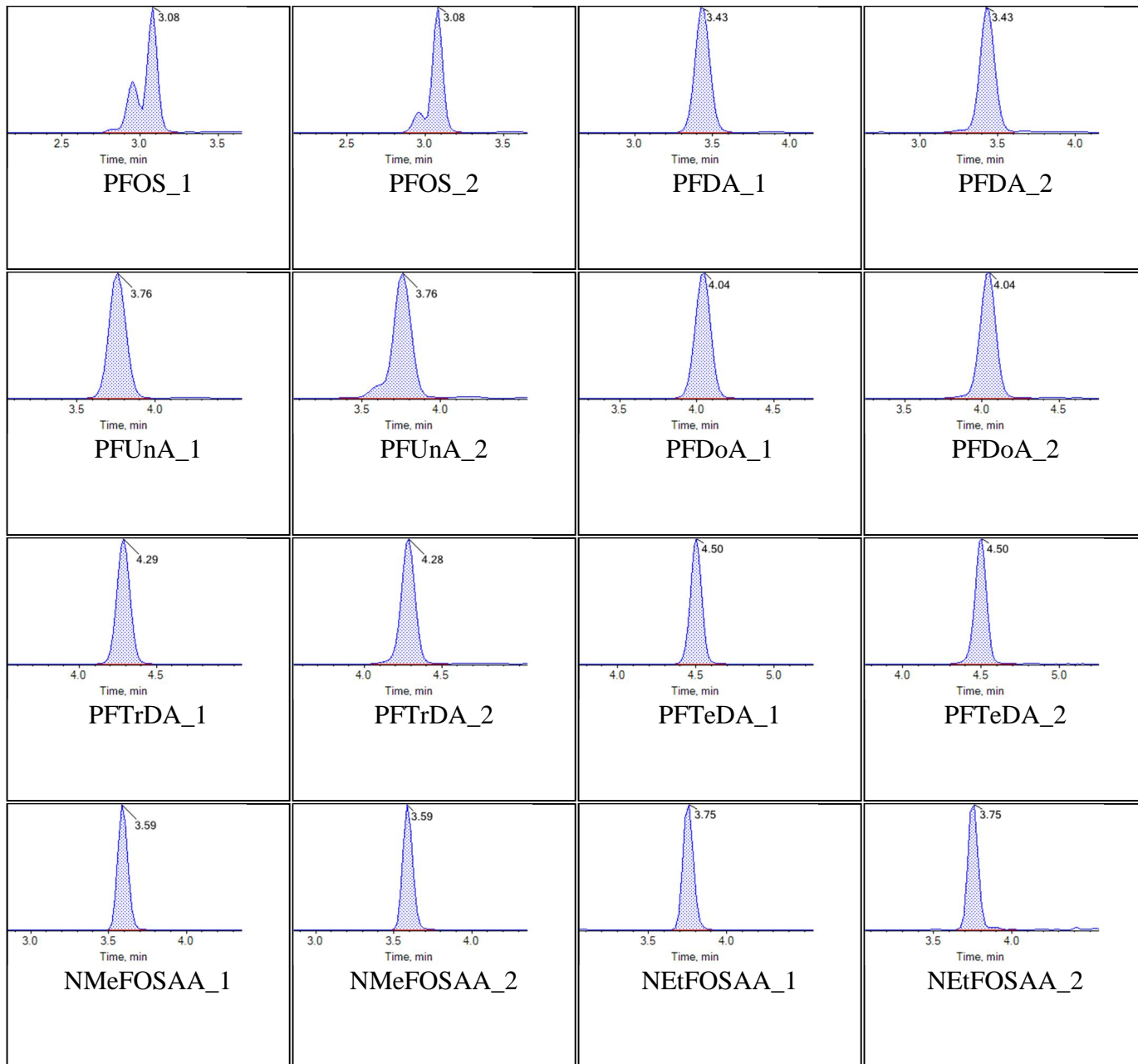
### Target Analytes:



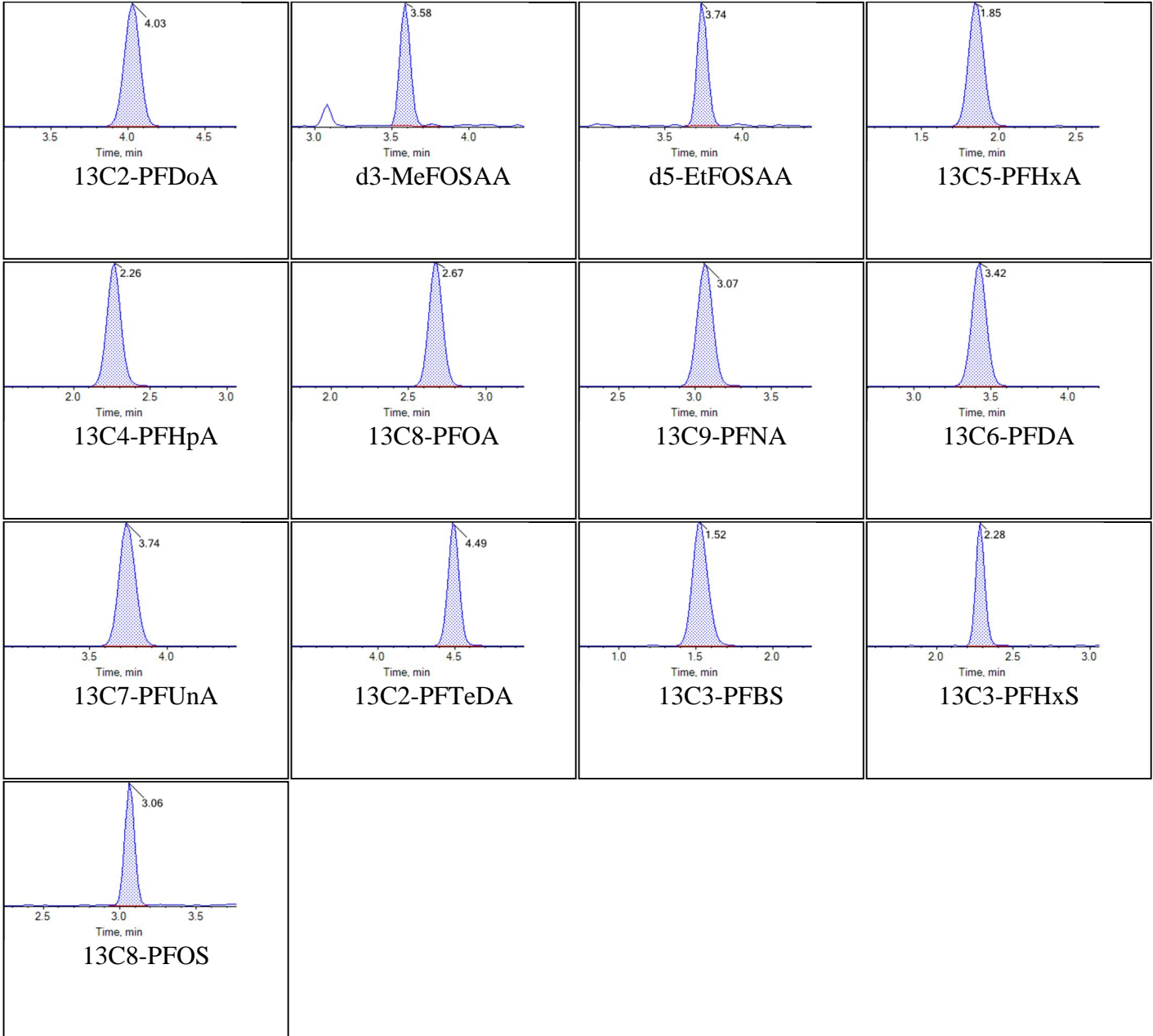


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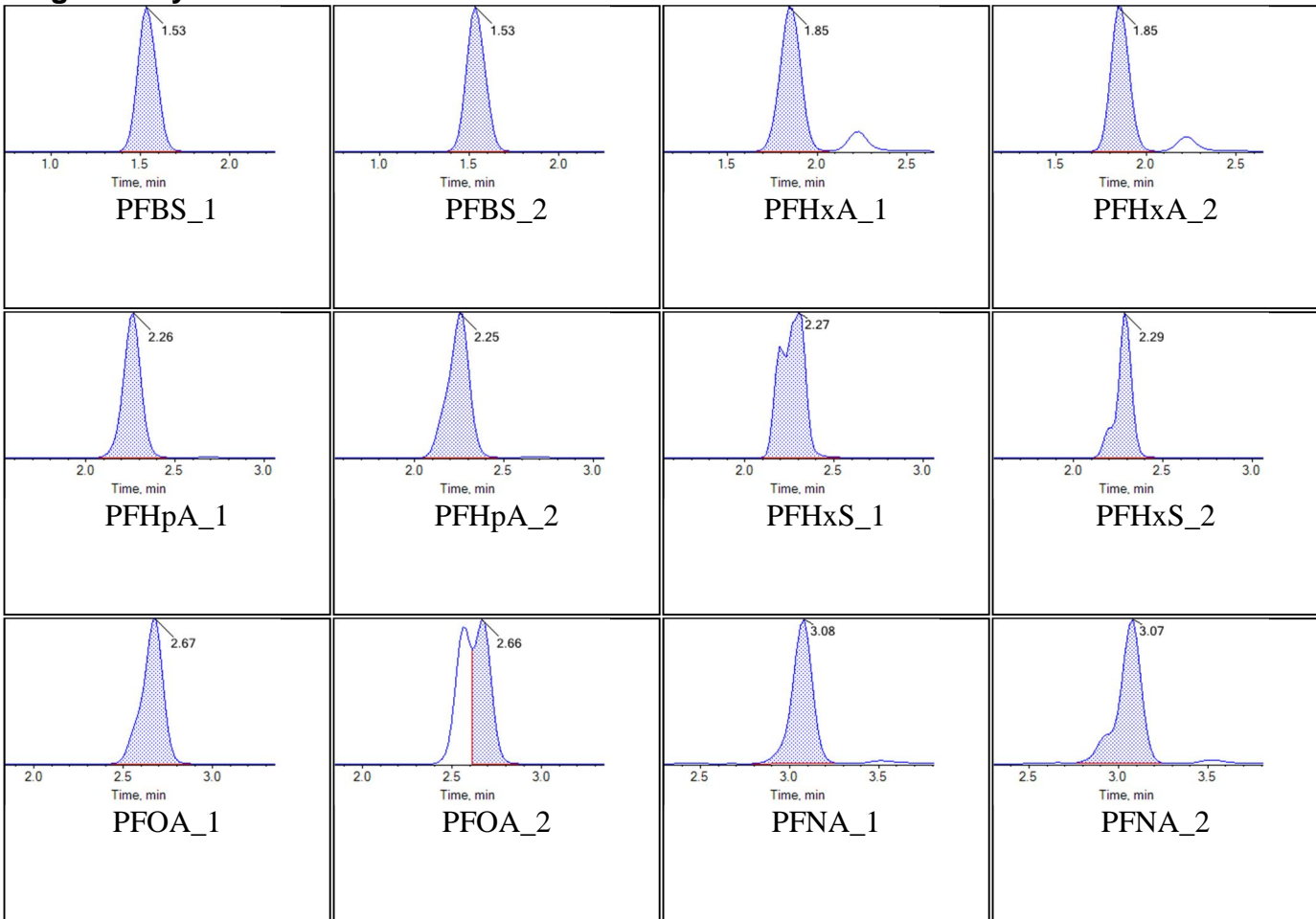
Internal Standards:



<b>Sample Name</b>	J8458-FS(0)	<b>Injection Vial</b>	41
<b>Sample ID</b>	VC-MS09-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:01:33	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

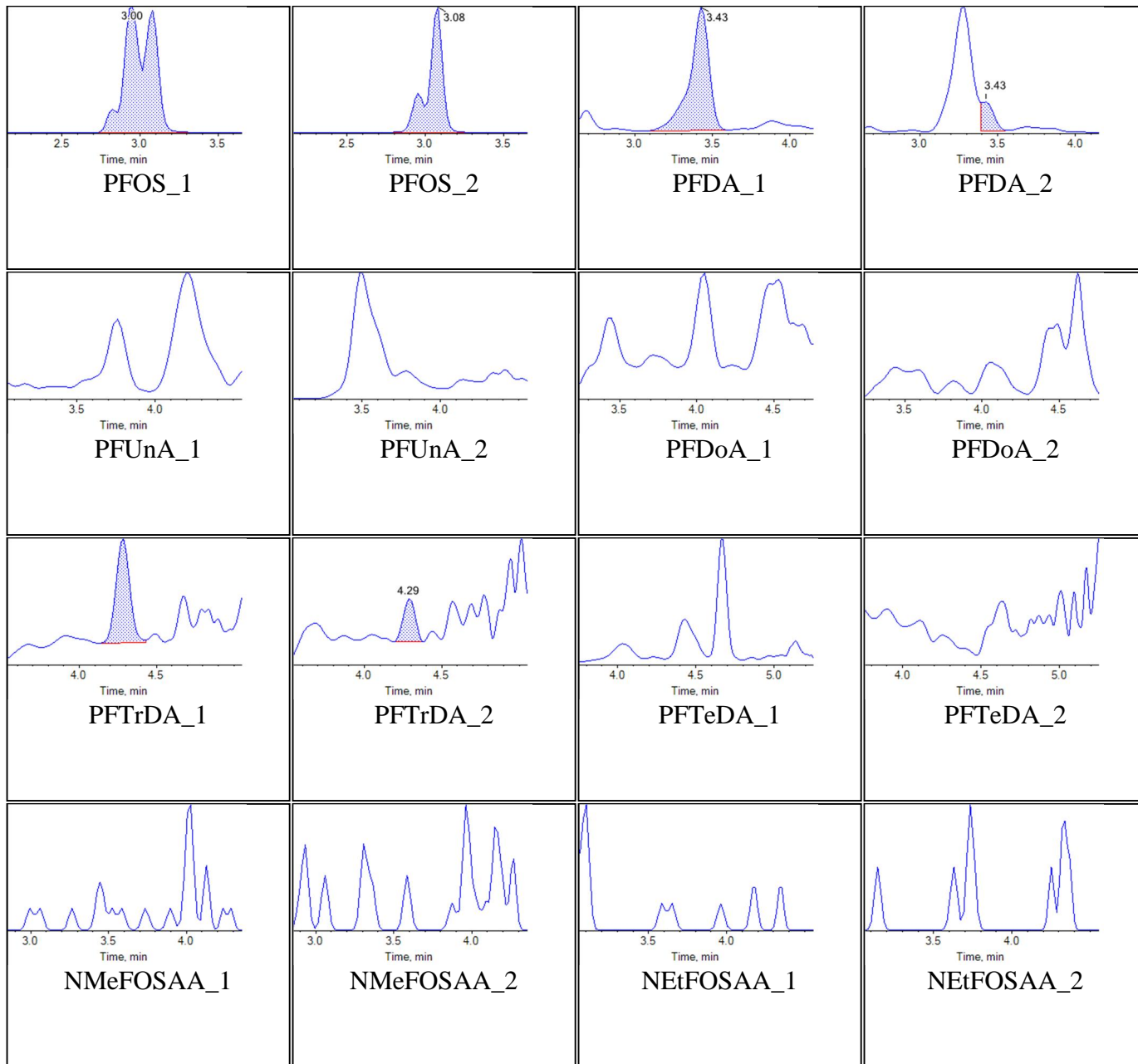
### Target Analytes:



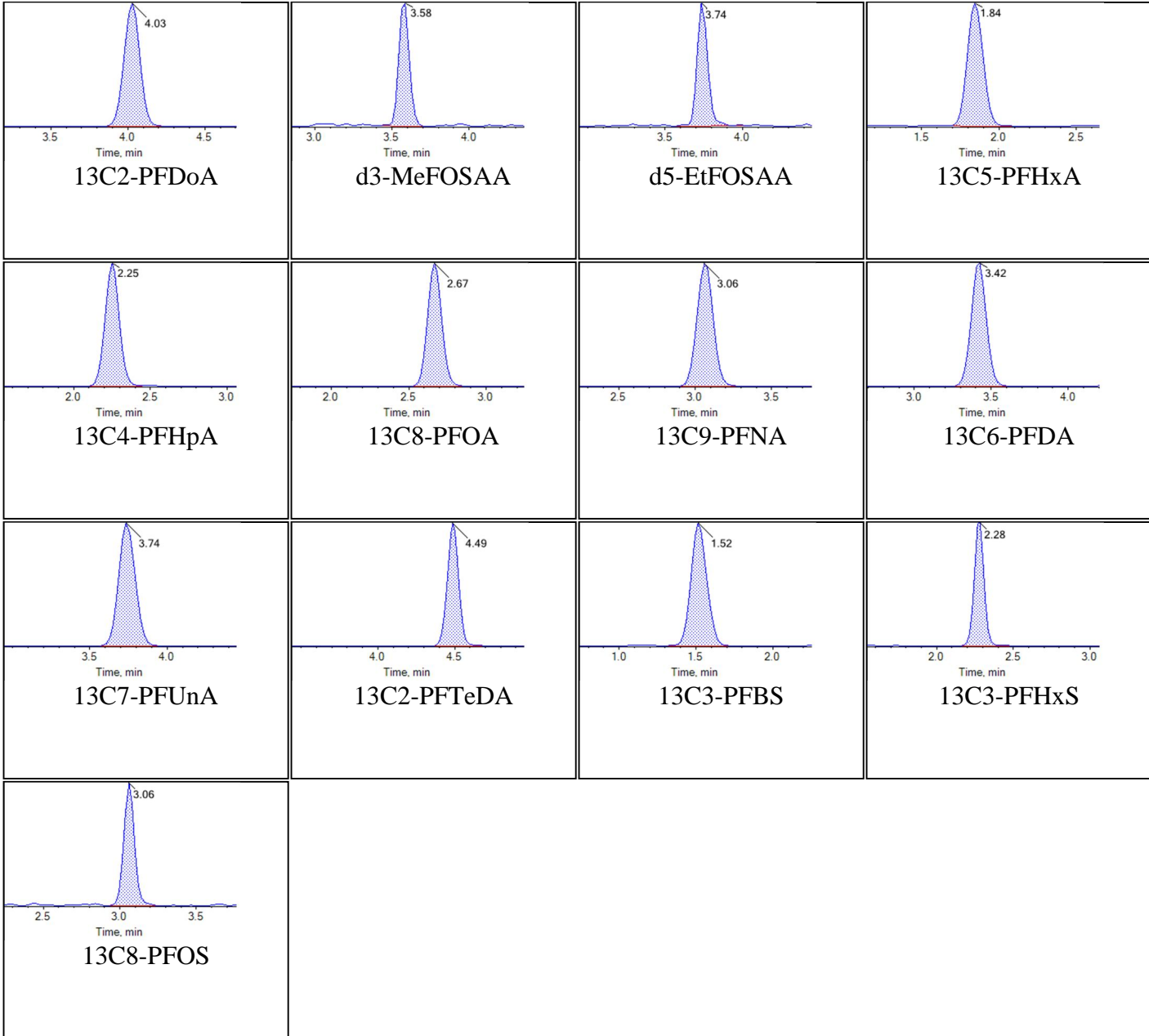


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Internal Standards:

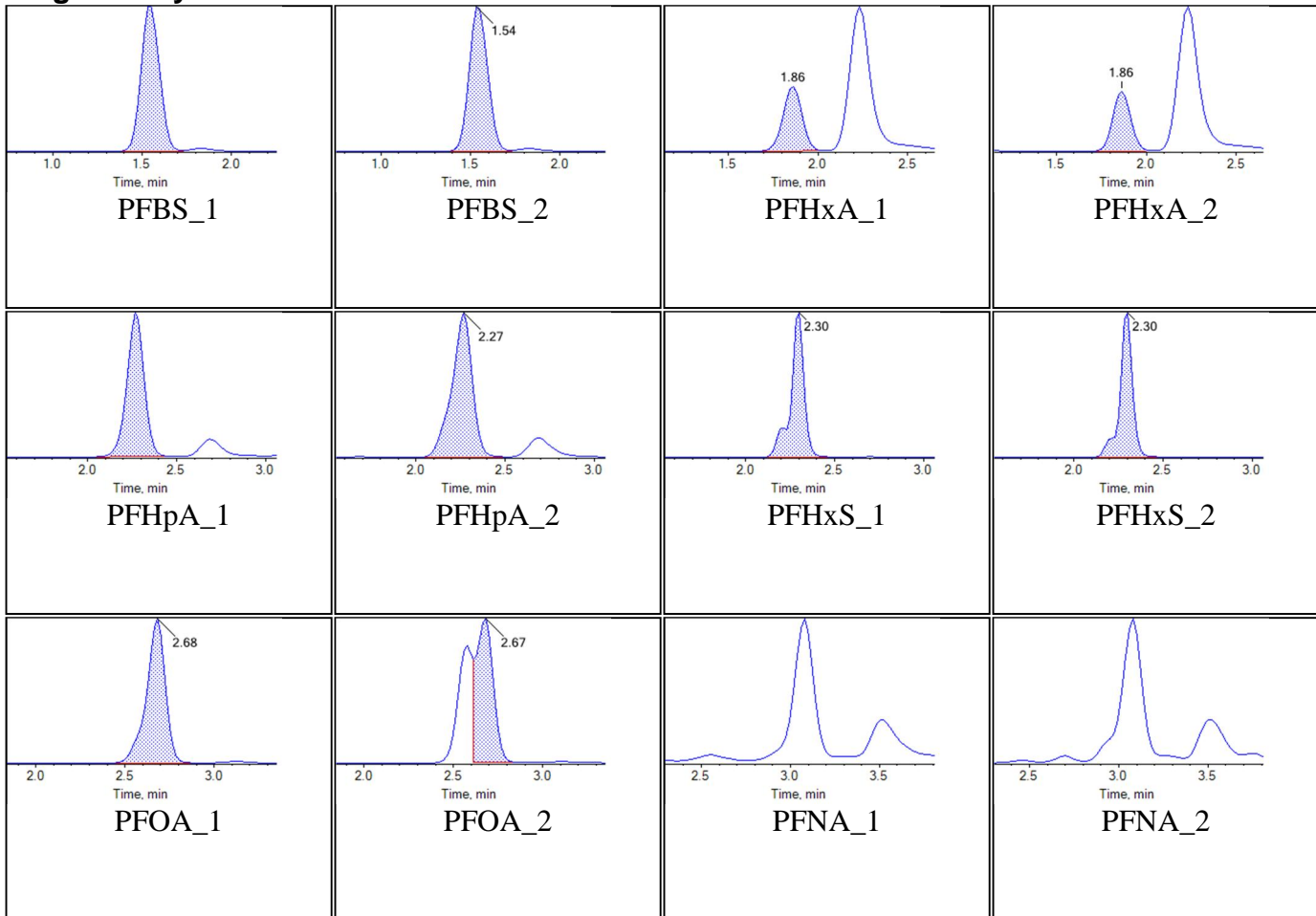


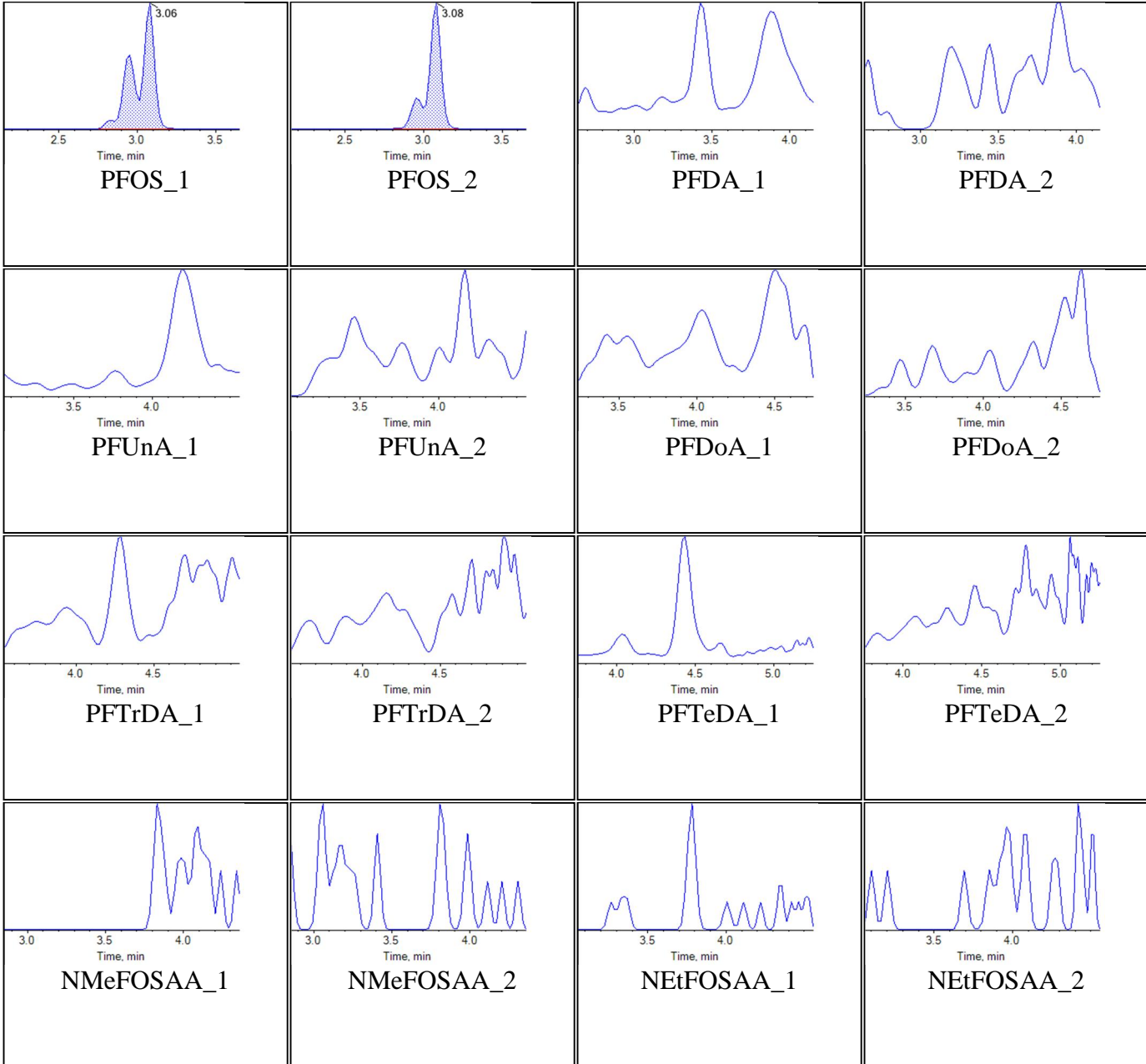


Sample Name	J8458-FS-D(3)	Injection Vial	42
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:12:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

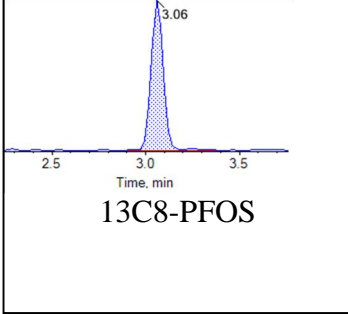
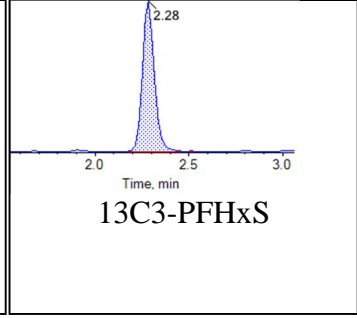
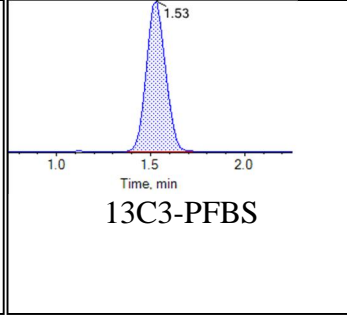
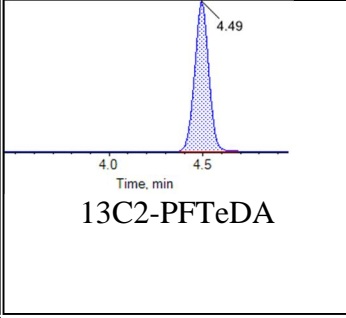
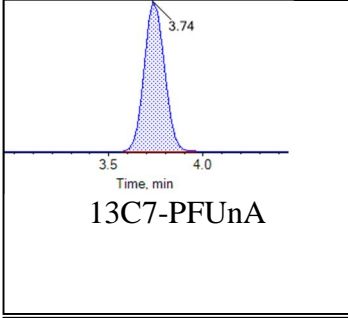
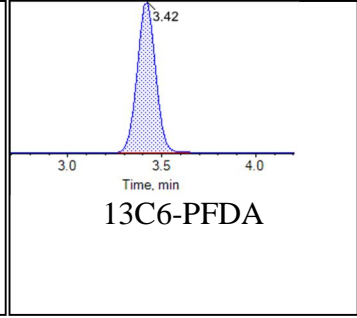
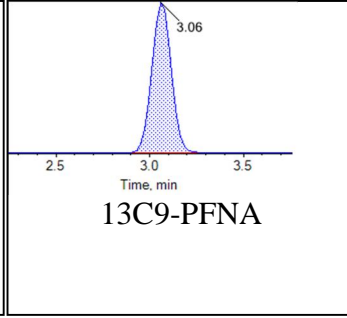
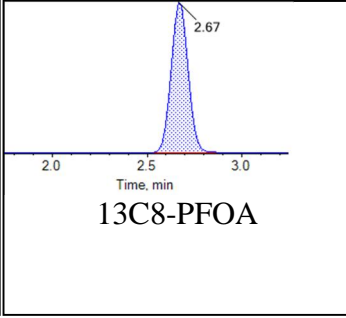
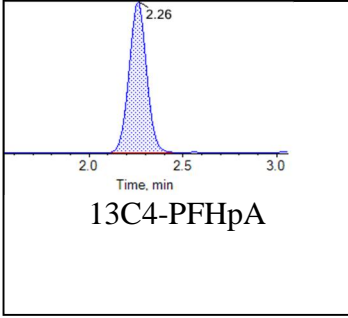
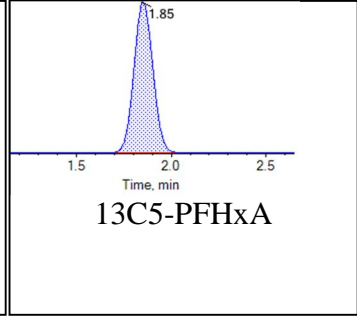
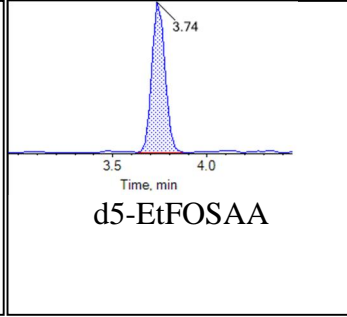
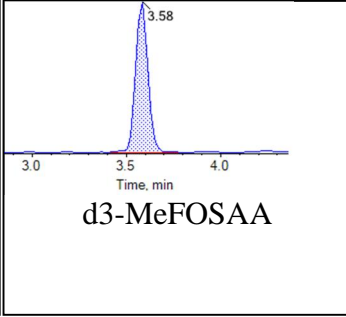
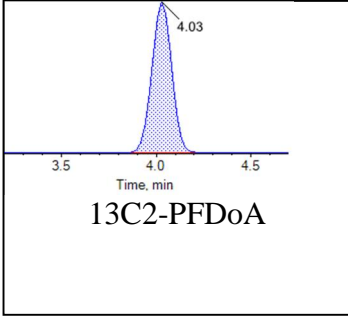
## Chromatograms

### Target Analytes:





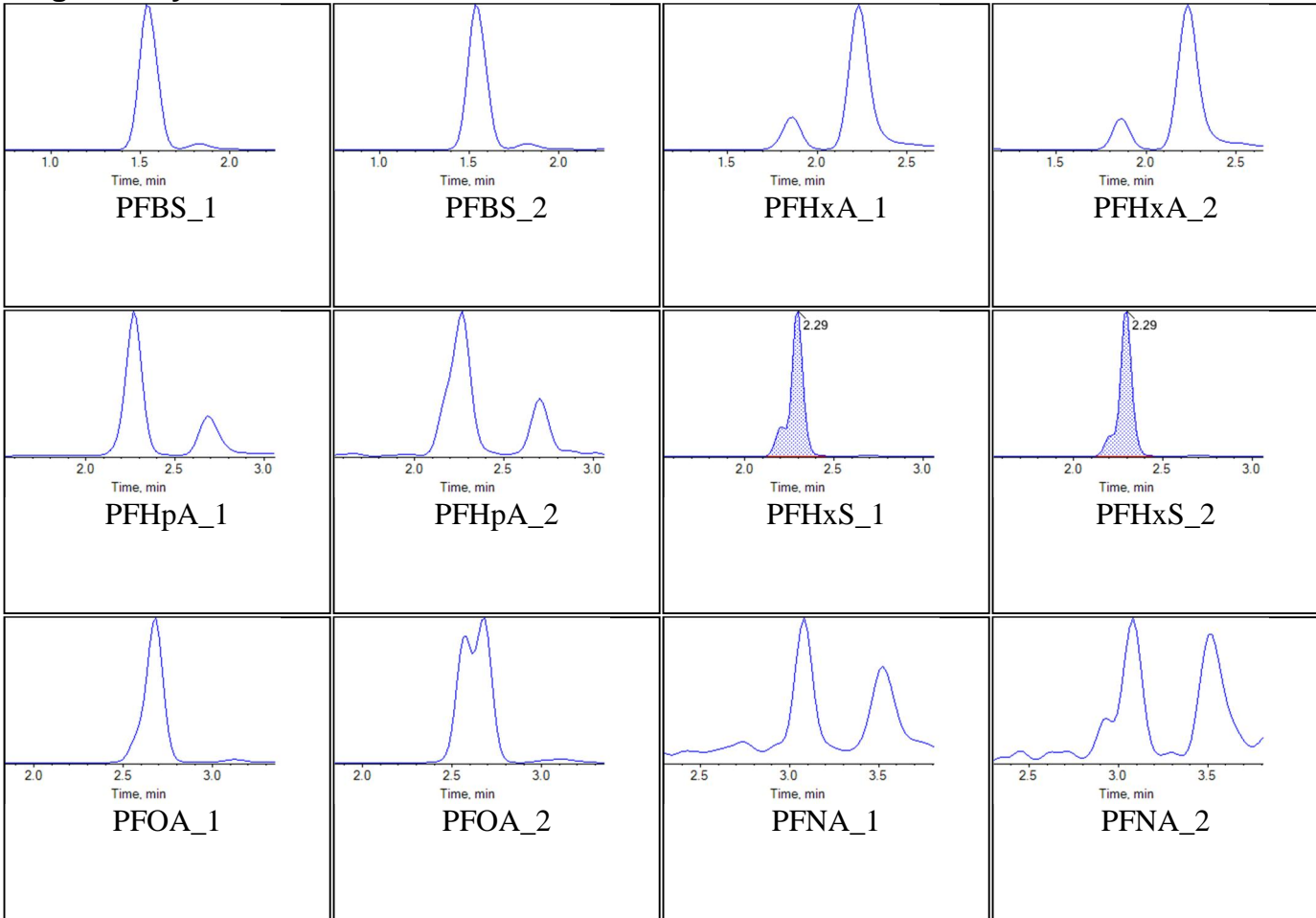
### Internal Standards:



<b>Sample Name</b>	J8458-FS-D(5)	<b>Injection Vial</b>	43
<b>Sample ID</b>	VC-MS09-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:23:17	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

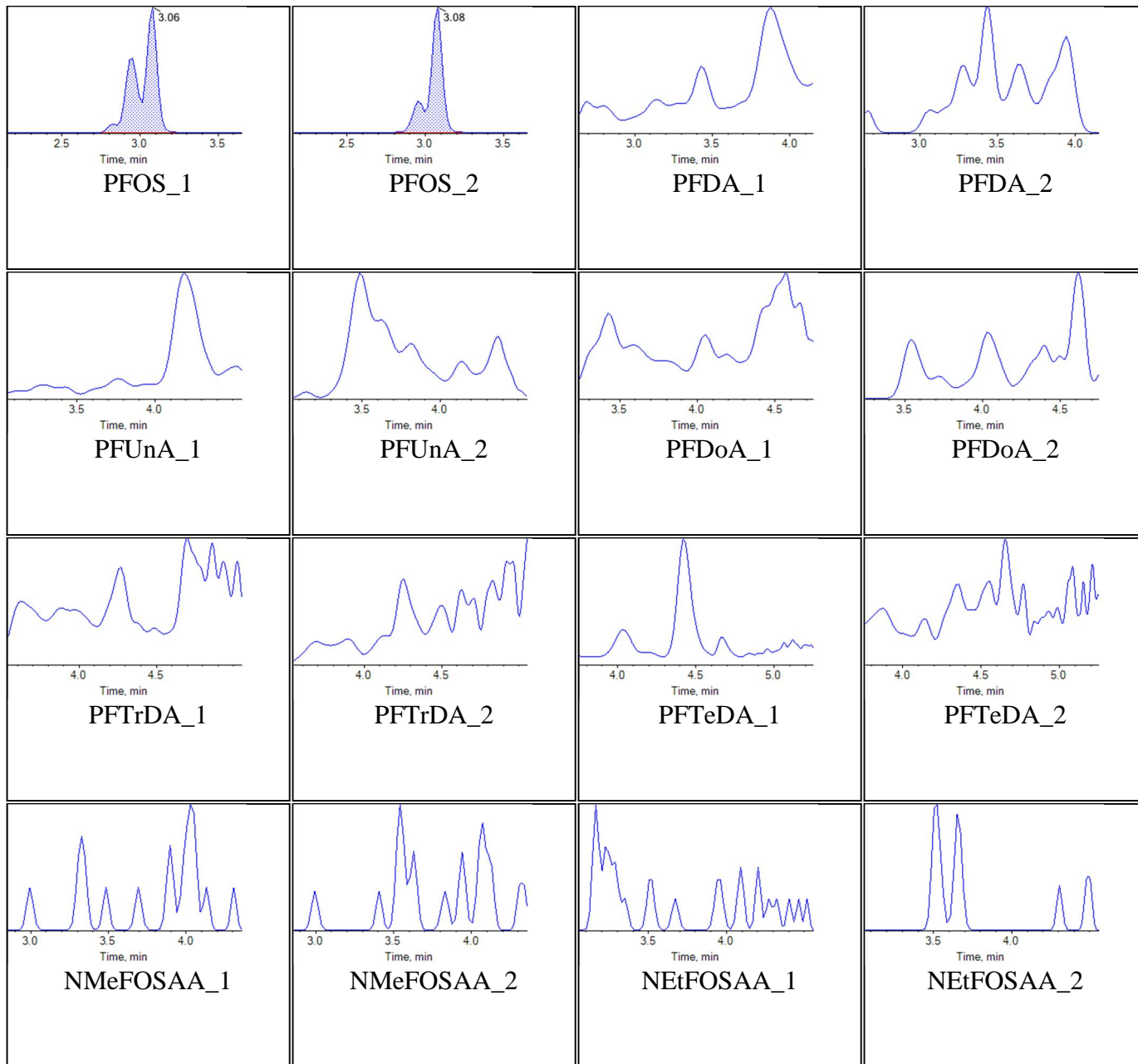
### Target Analytes:



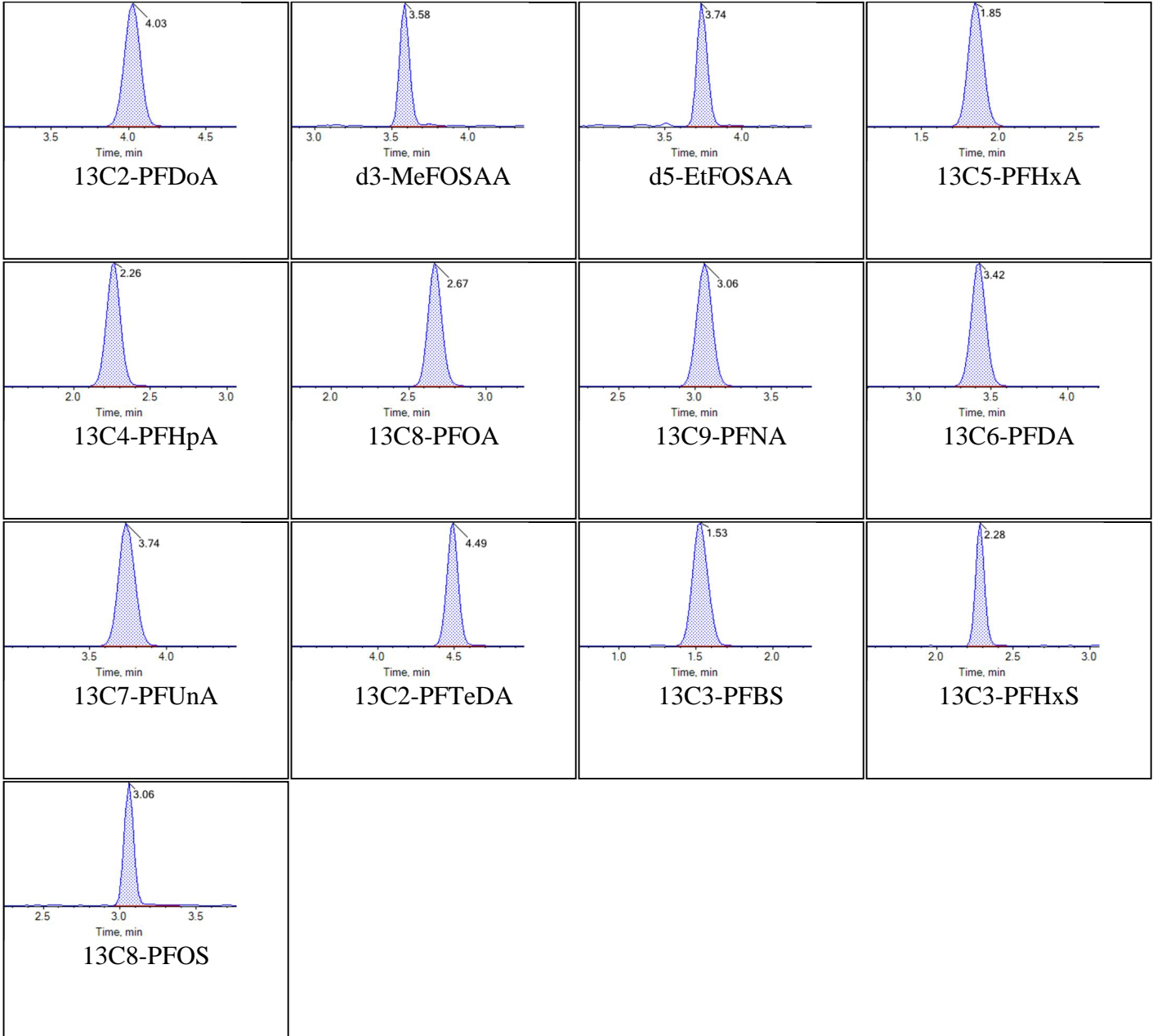


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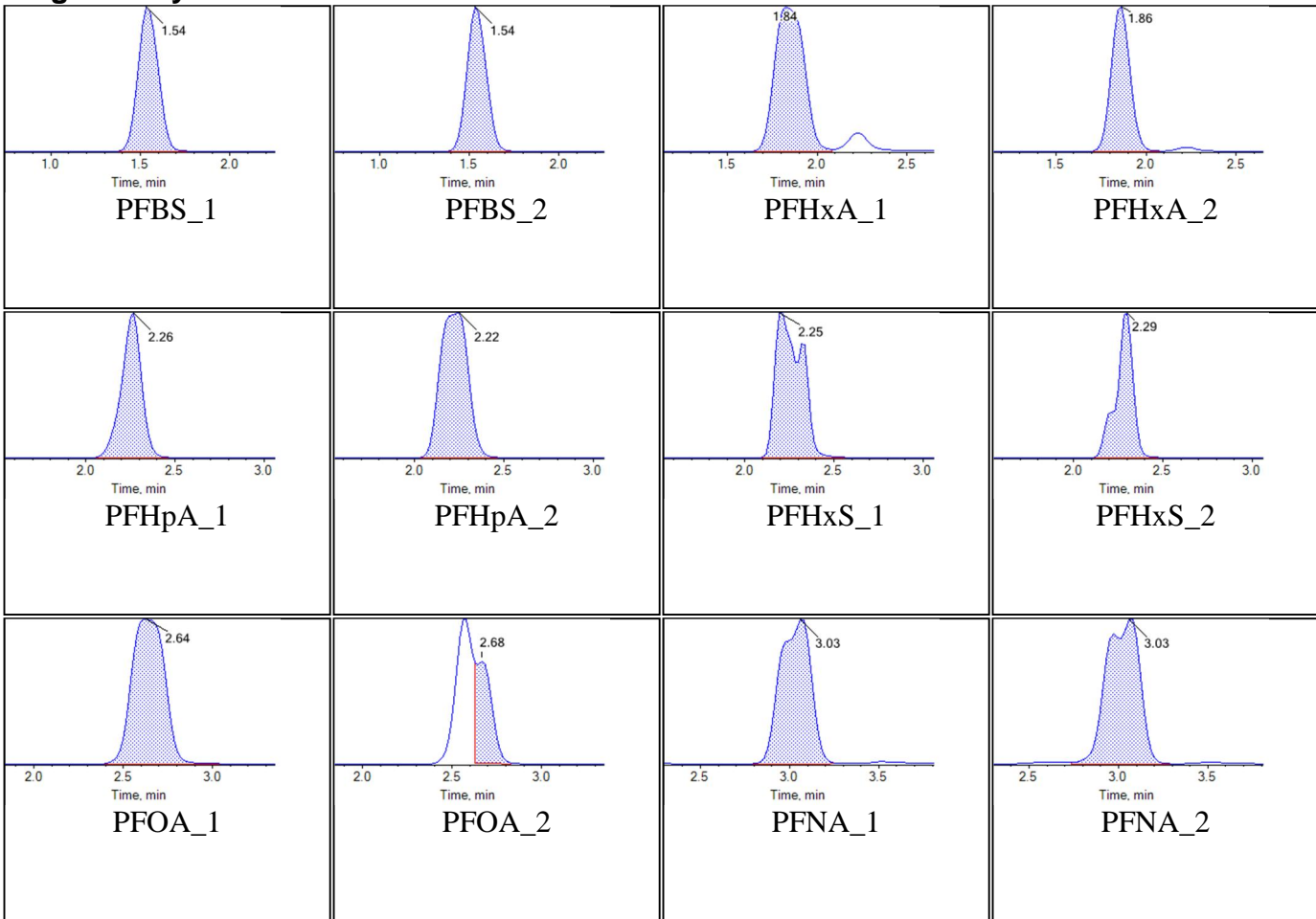
Internal Standards:

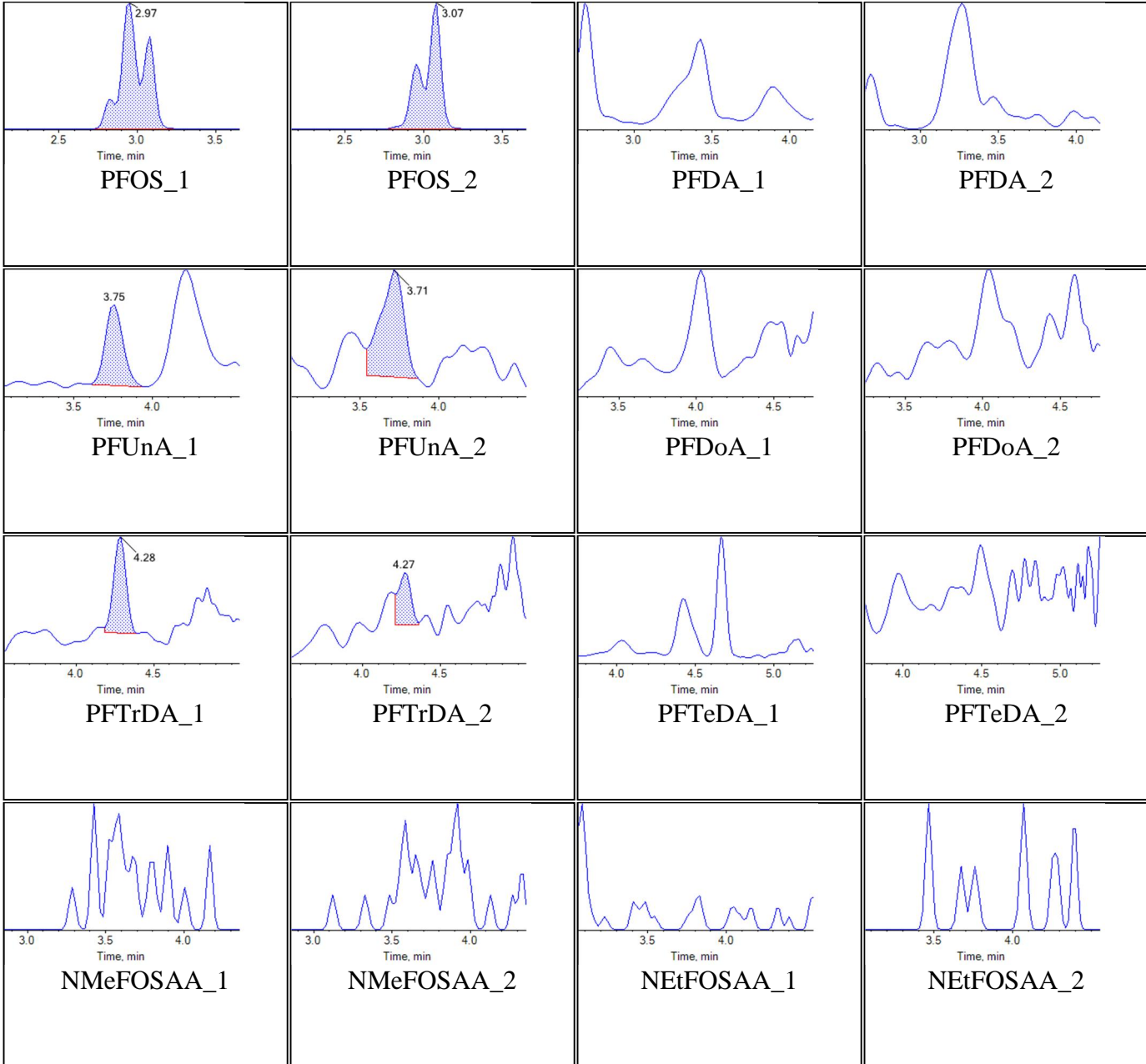


<b>Sample Name</b>	J8459-FS(0)	<b>Injection Vial</b>	44
<b>Sample ID</b>	VC-MS09-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:34:08	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Chromatograms

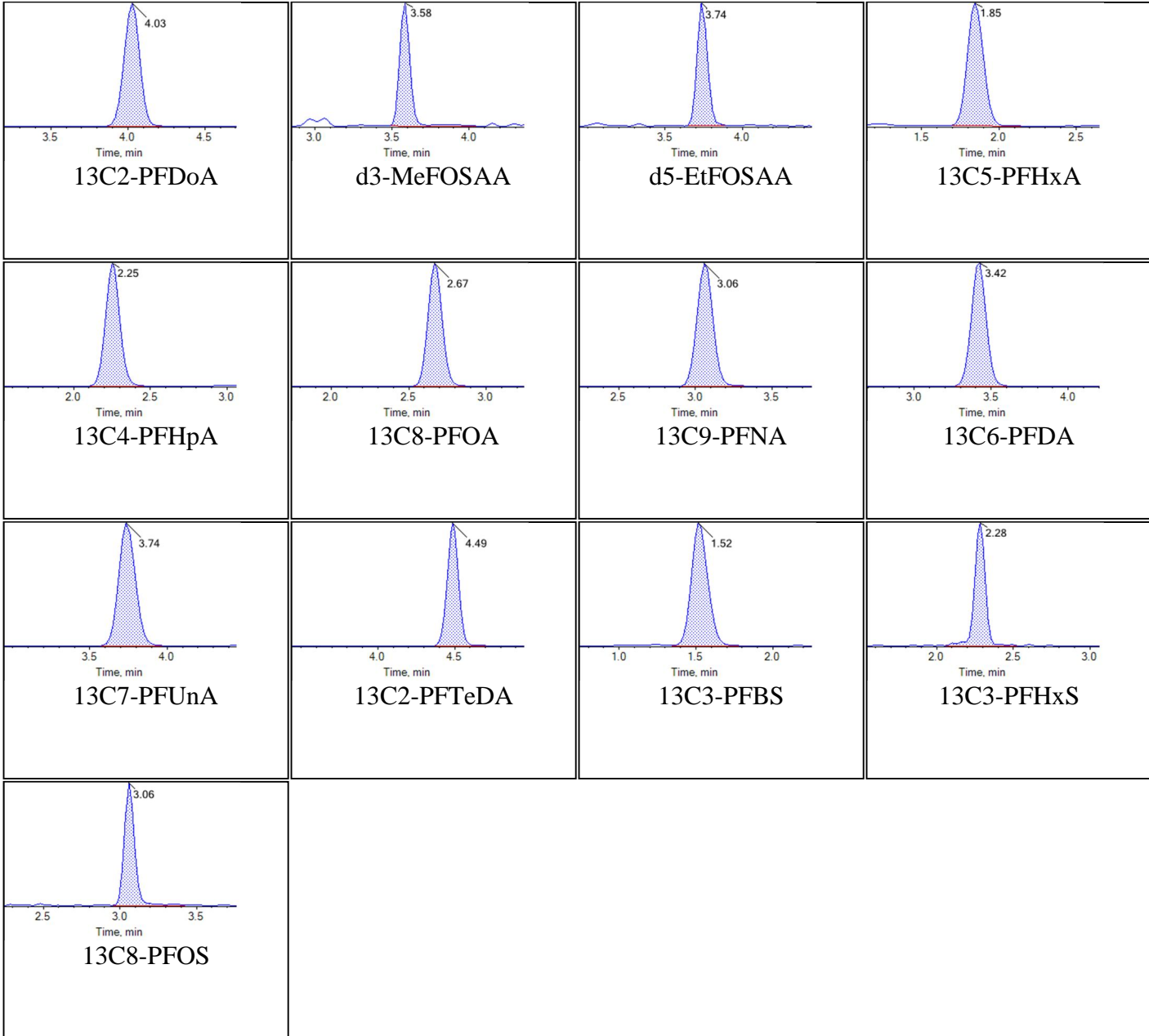
#### Target Analytes:





**Internal Standards:**

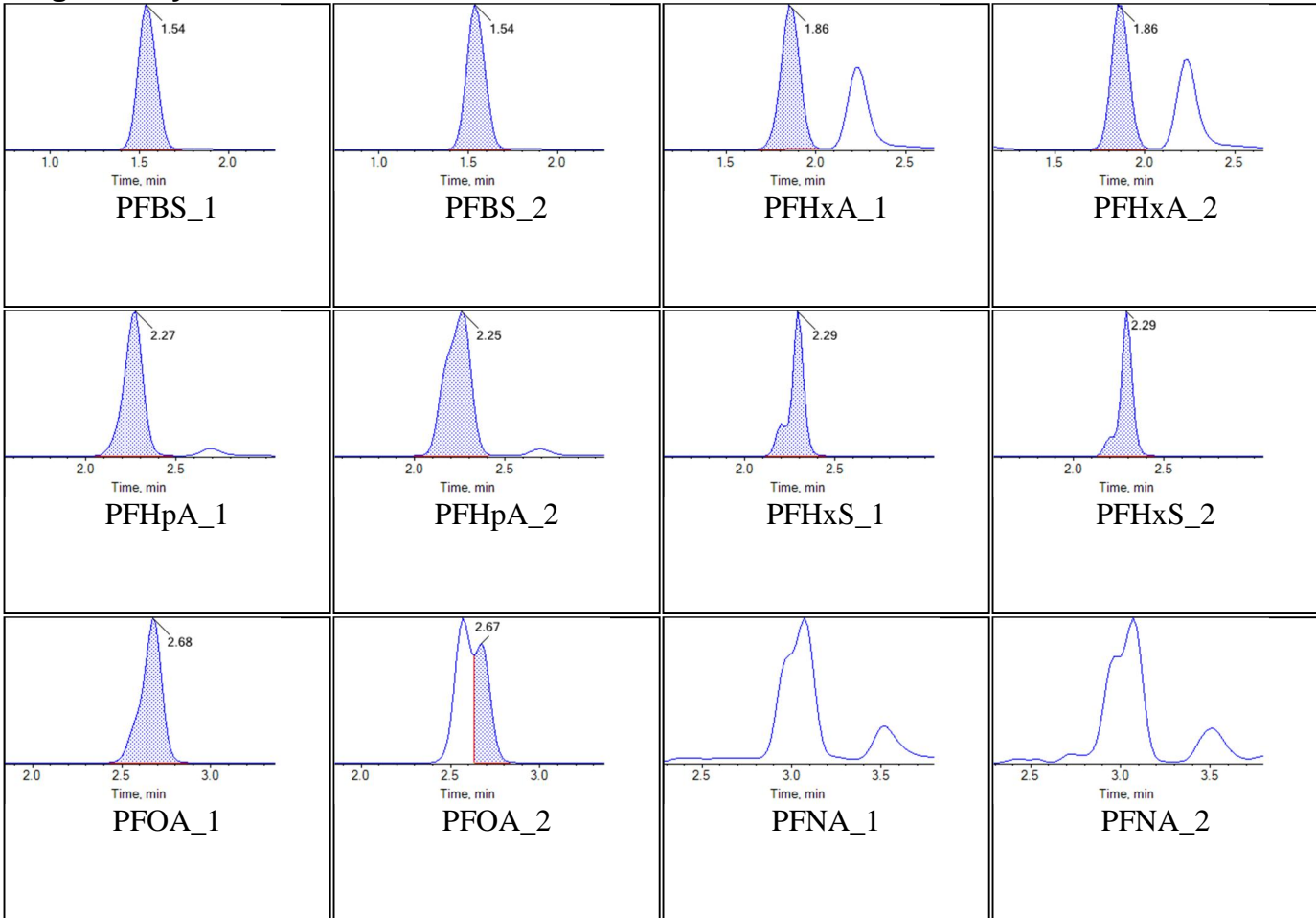




<b>Sample Name</b>	J8459-FS-D(3)	<b>Injection Vial</b>	45
<b>Sample ID</b>	VC-MS09-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:44:59	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

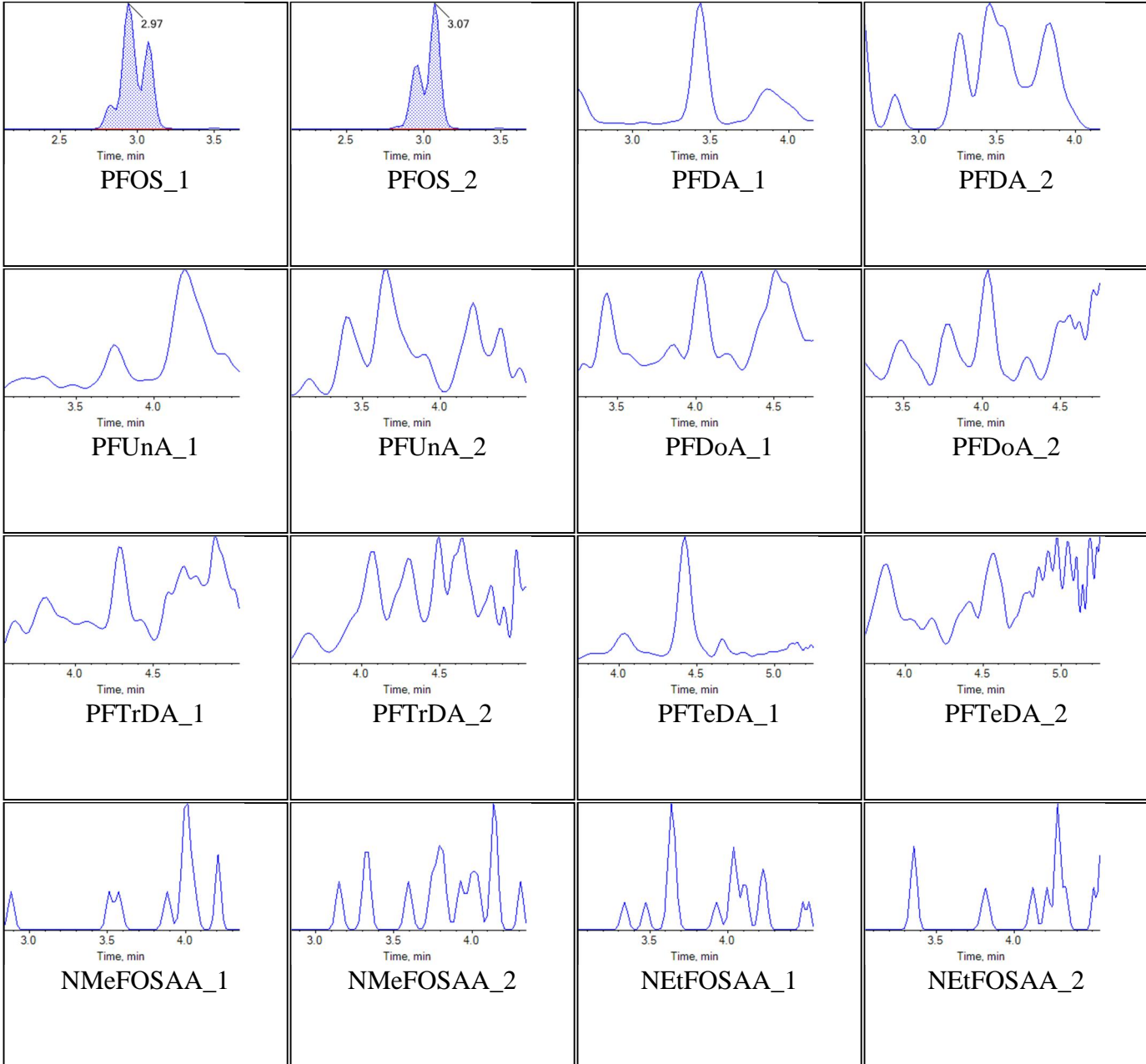
### Target Analytes:



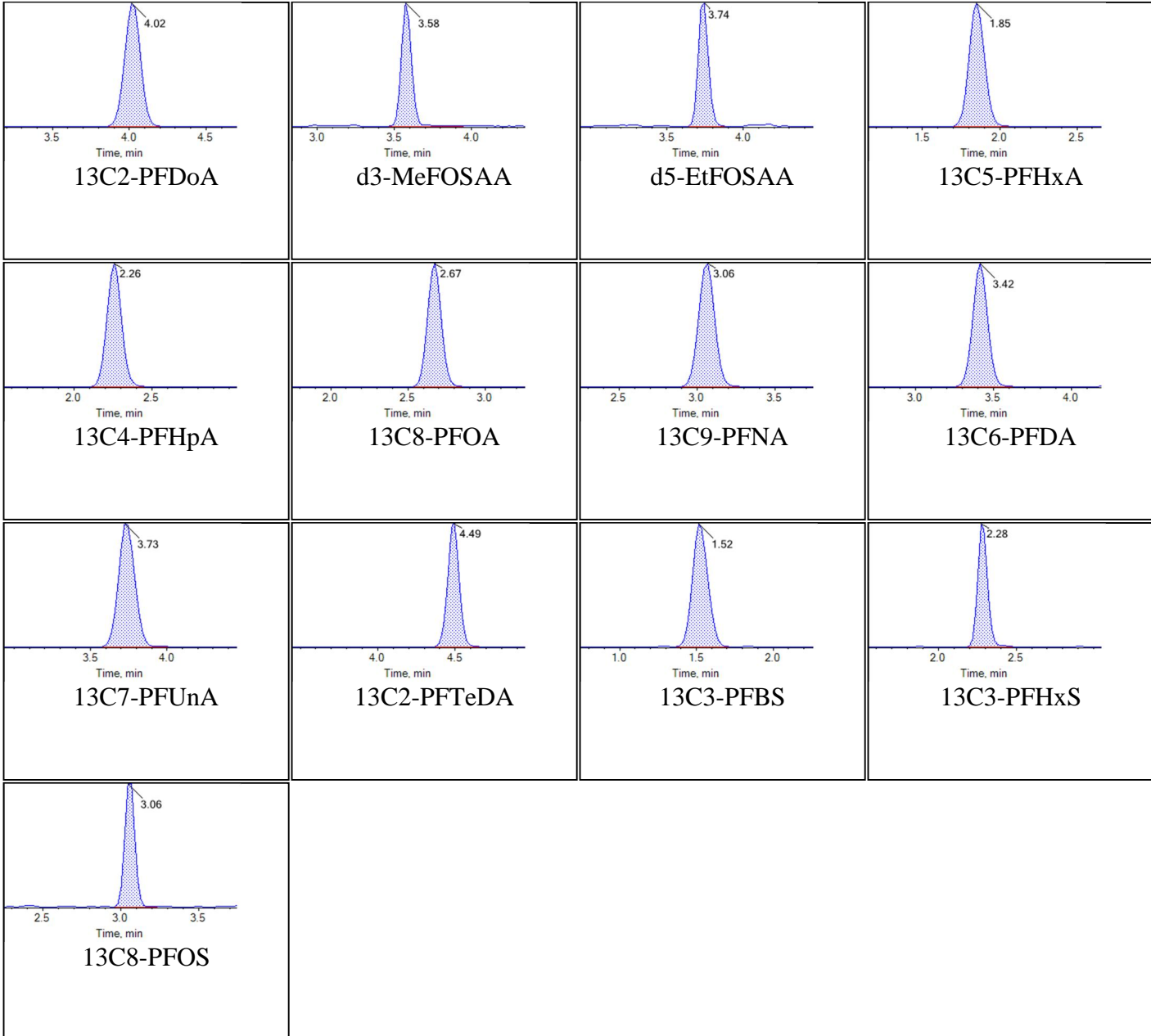


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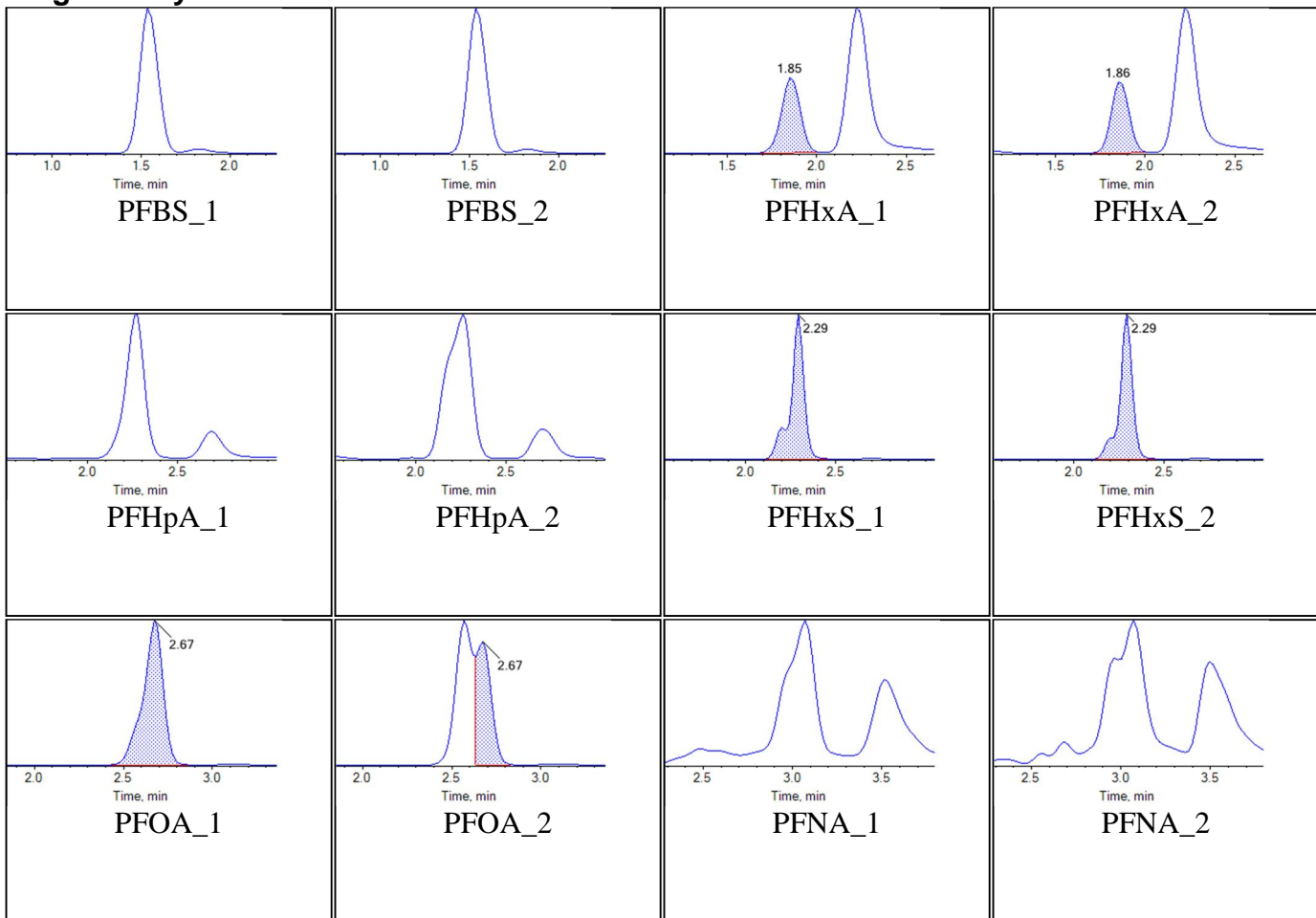
Internal Standards:

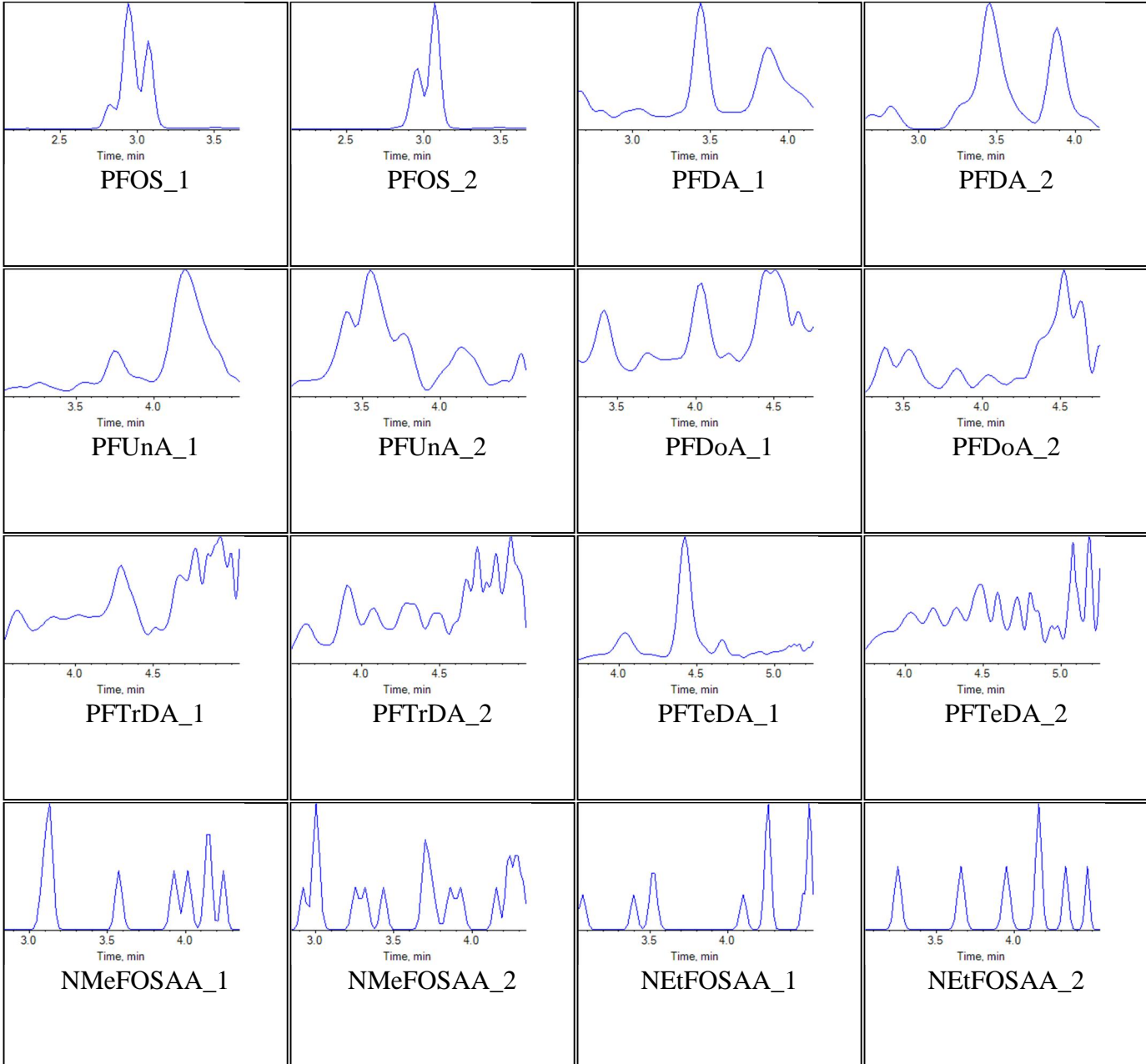


Sample Name	J8459-FS-D(5)	Injection Vial	46
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:55:51	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

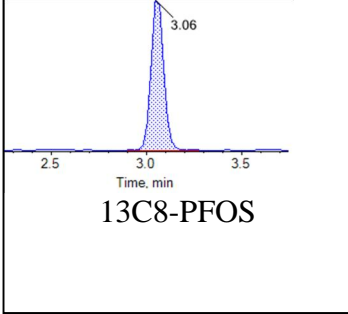
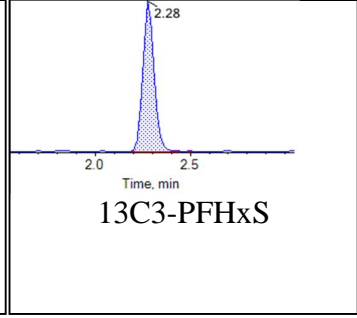
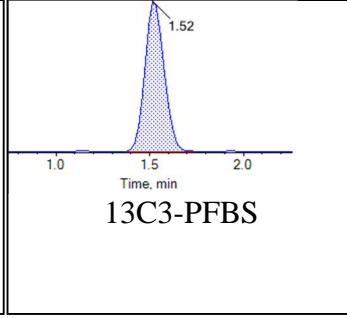
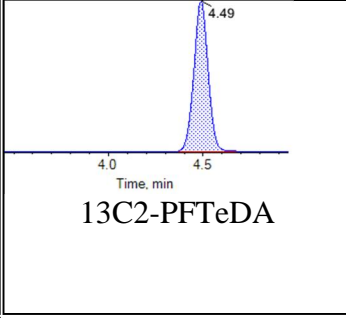
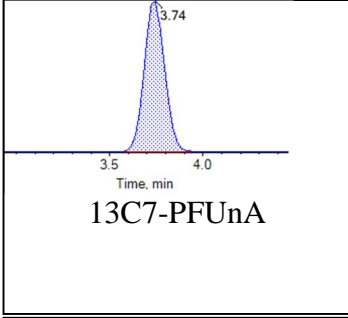
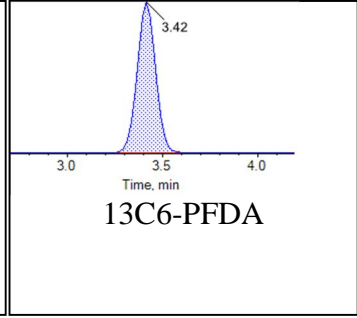
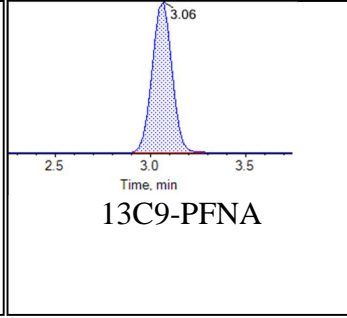
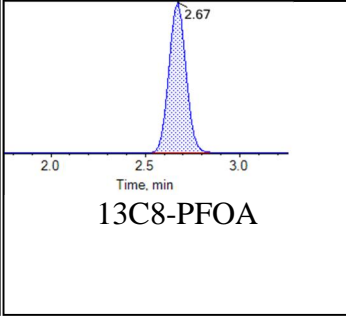
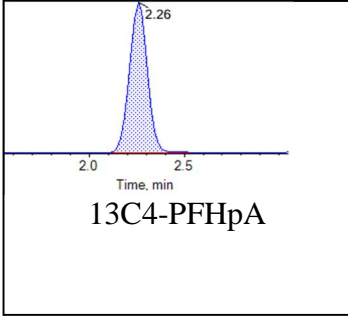
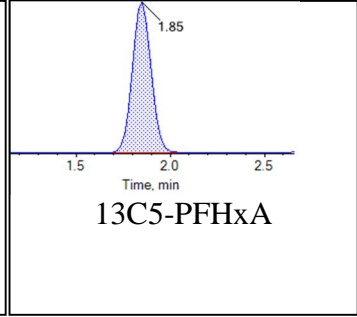
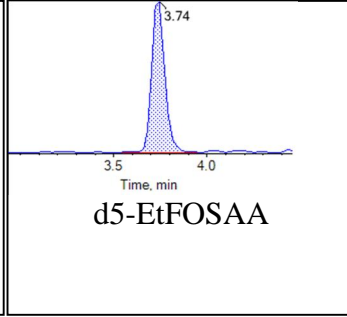
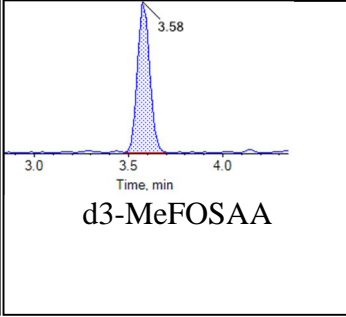
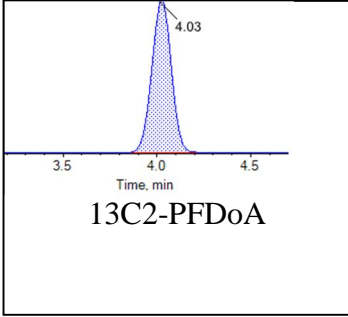
## Chromatograms

### Target Analytes:





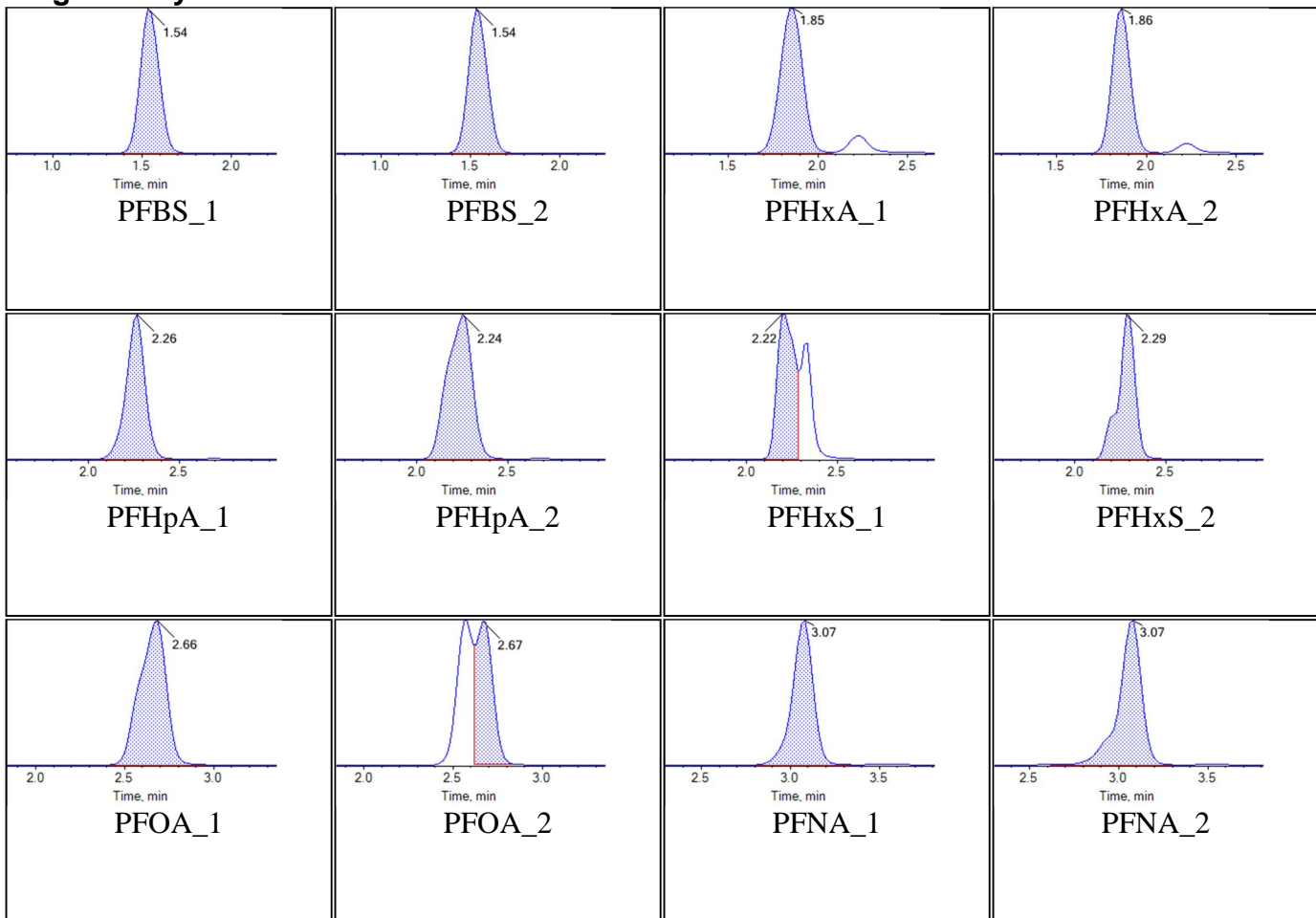
**Internal Standards:**



<b>Sample Name</b>	J8460-FS(0)	<b>Injection Vial</b>	47
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:06:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:

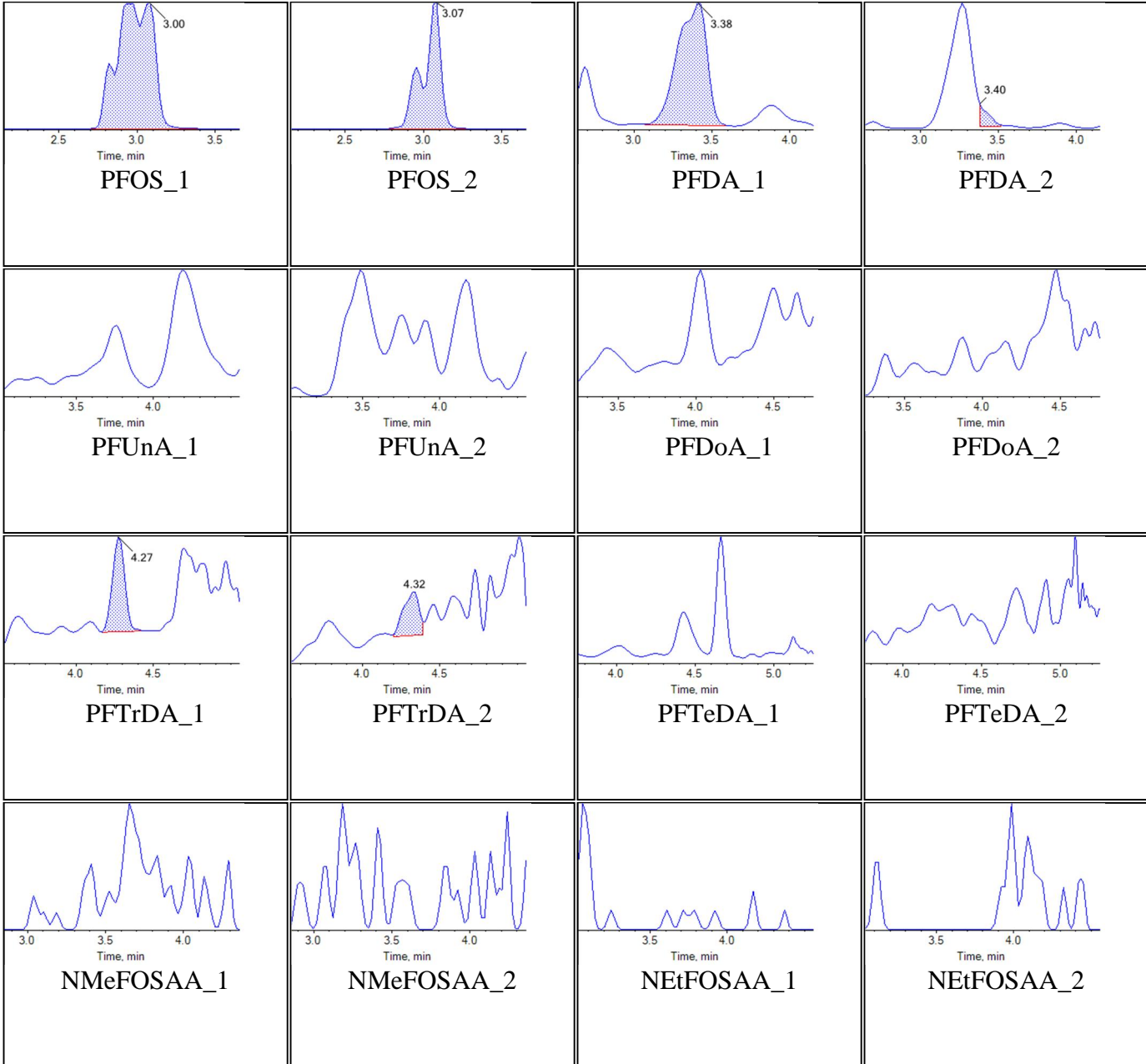




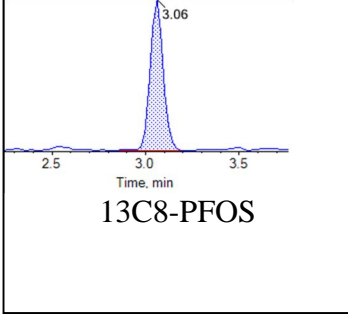
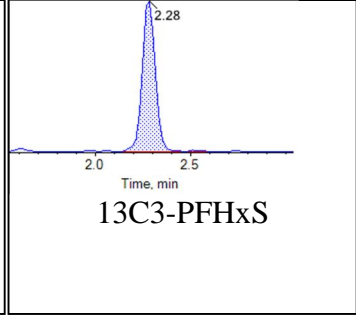
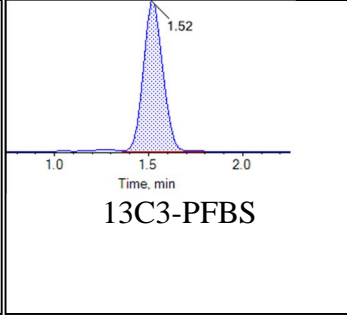
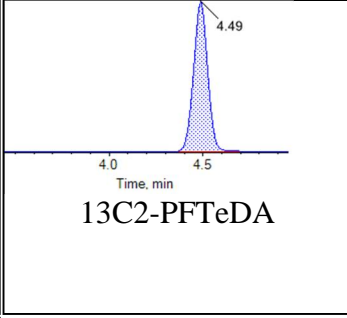
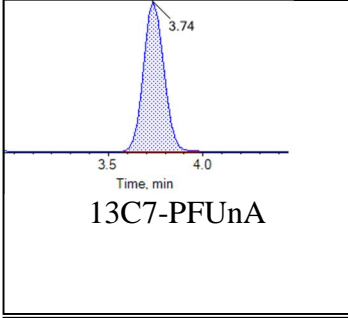
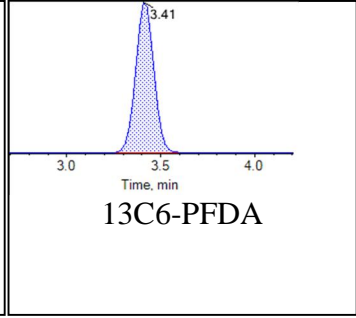
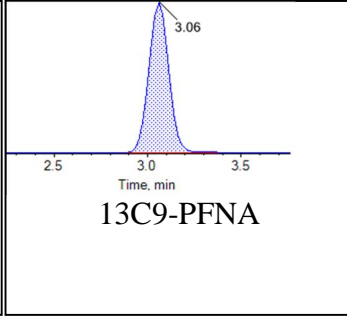
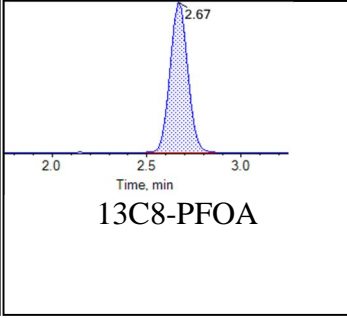
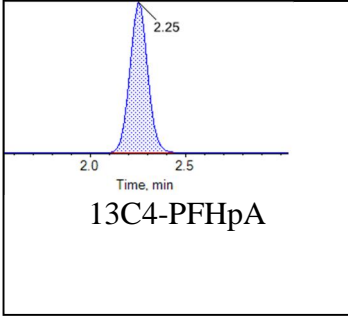
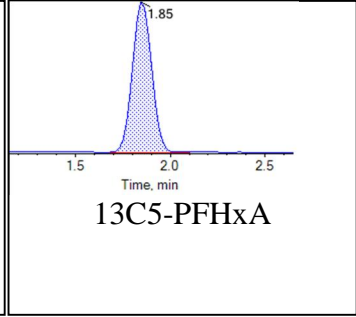
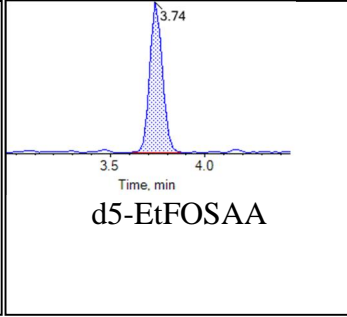
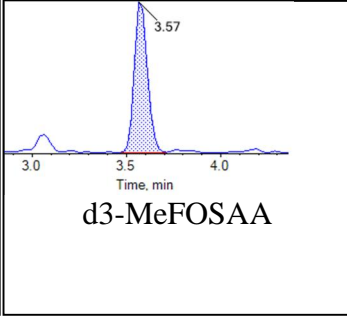
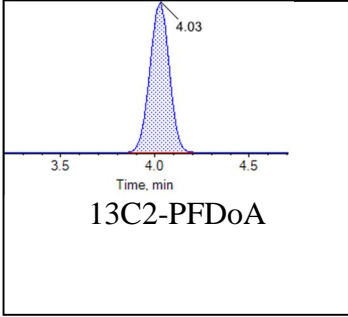


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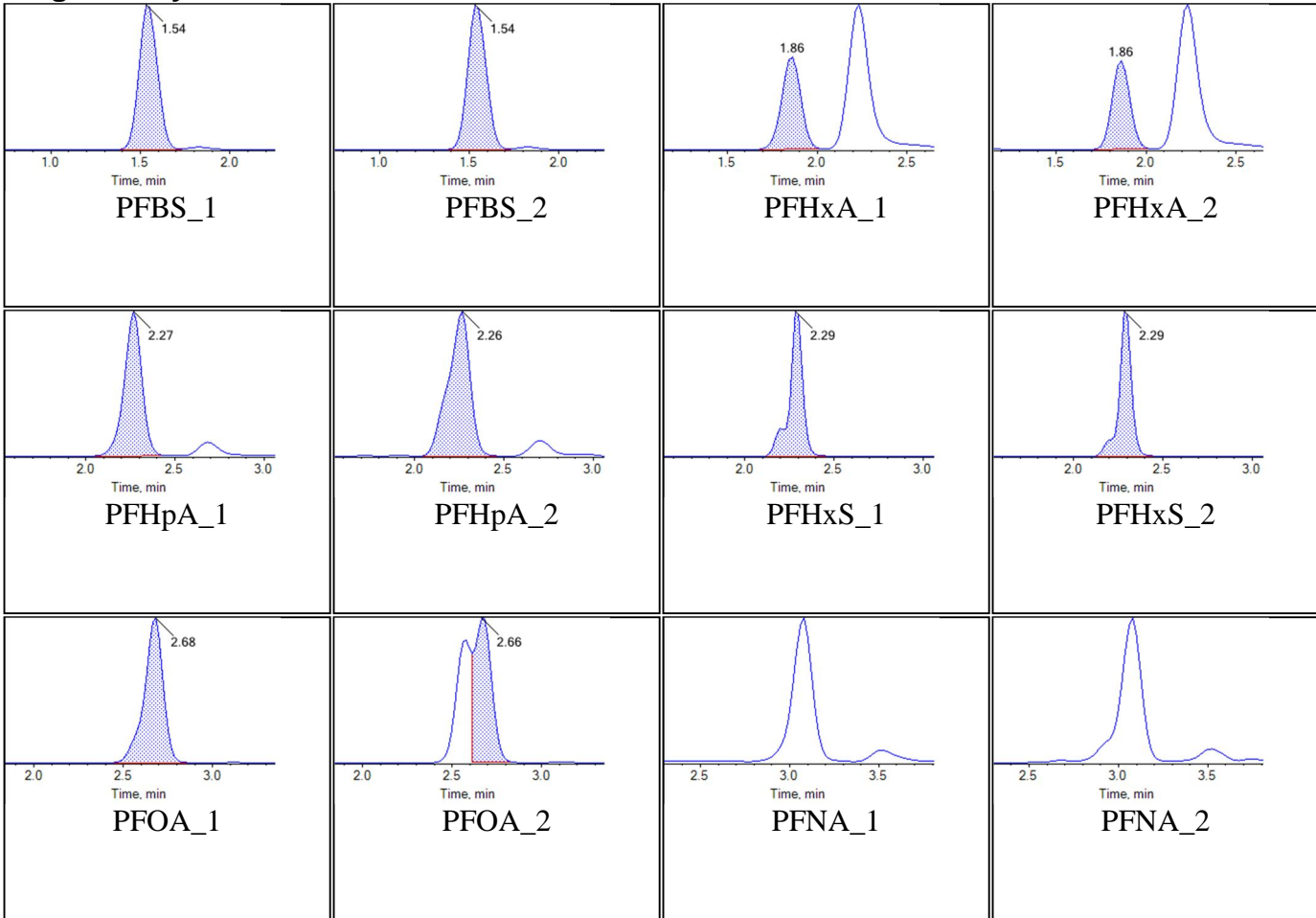
Internal Standards:



<b>Sample Name</b>	J8460-FS-D(3)	<b>Injection Vial</b>	48
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:17:36	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

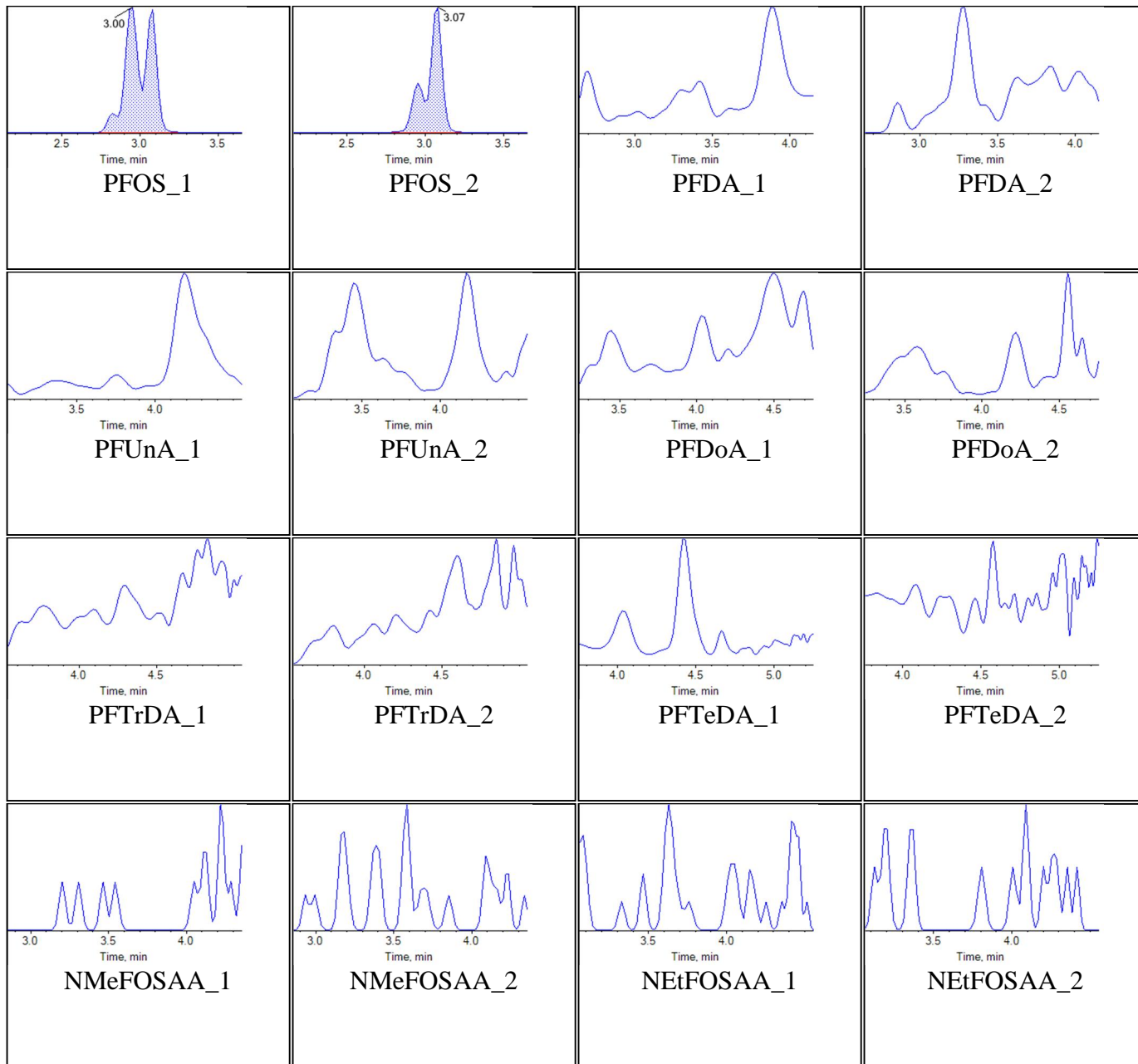
### Target Analytes:



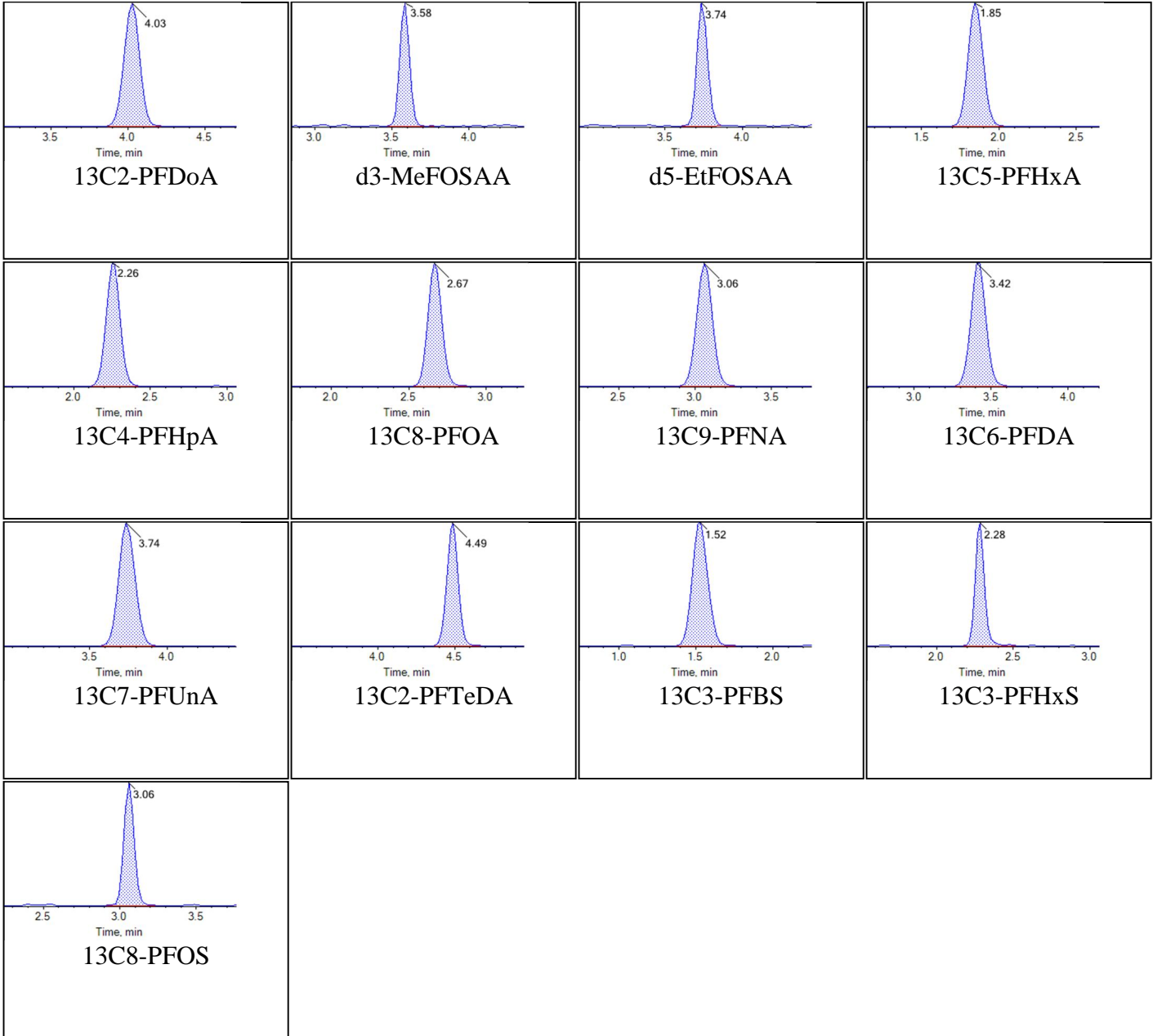


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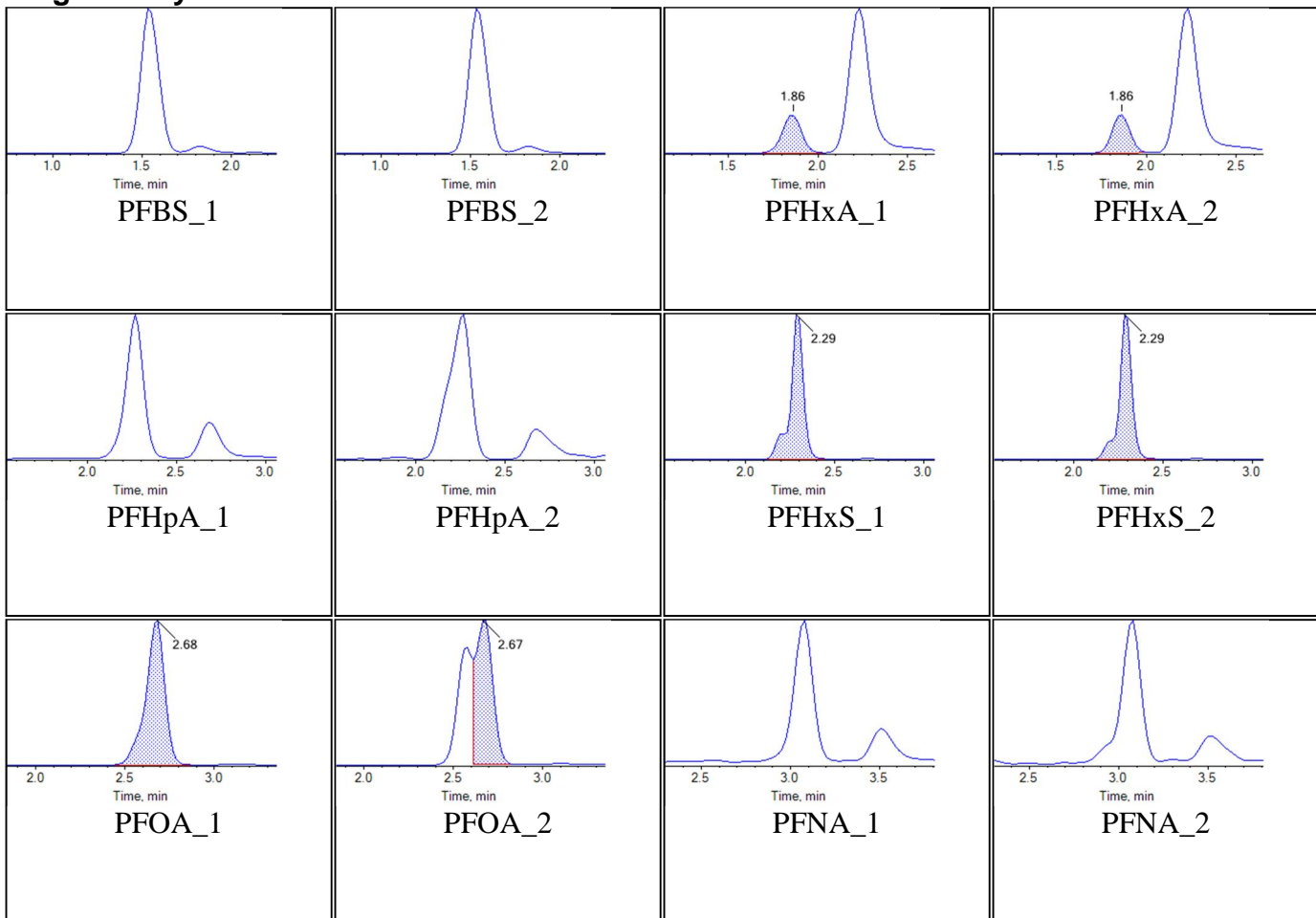
Internal Standards:

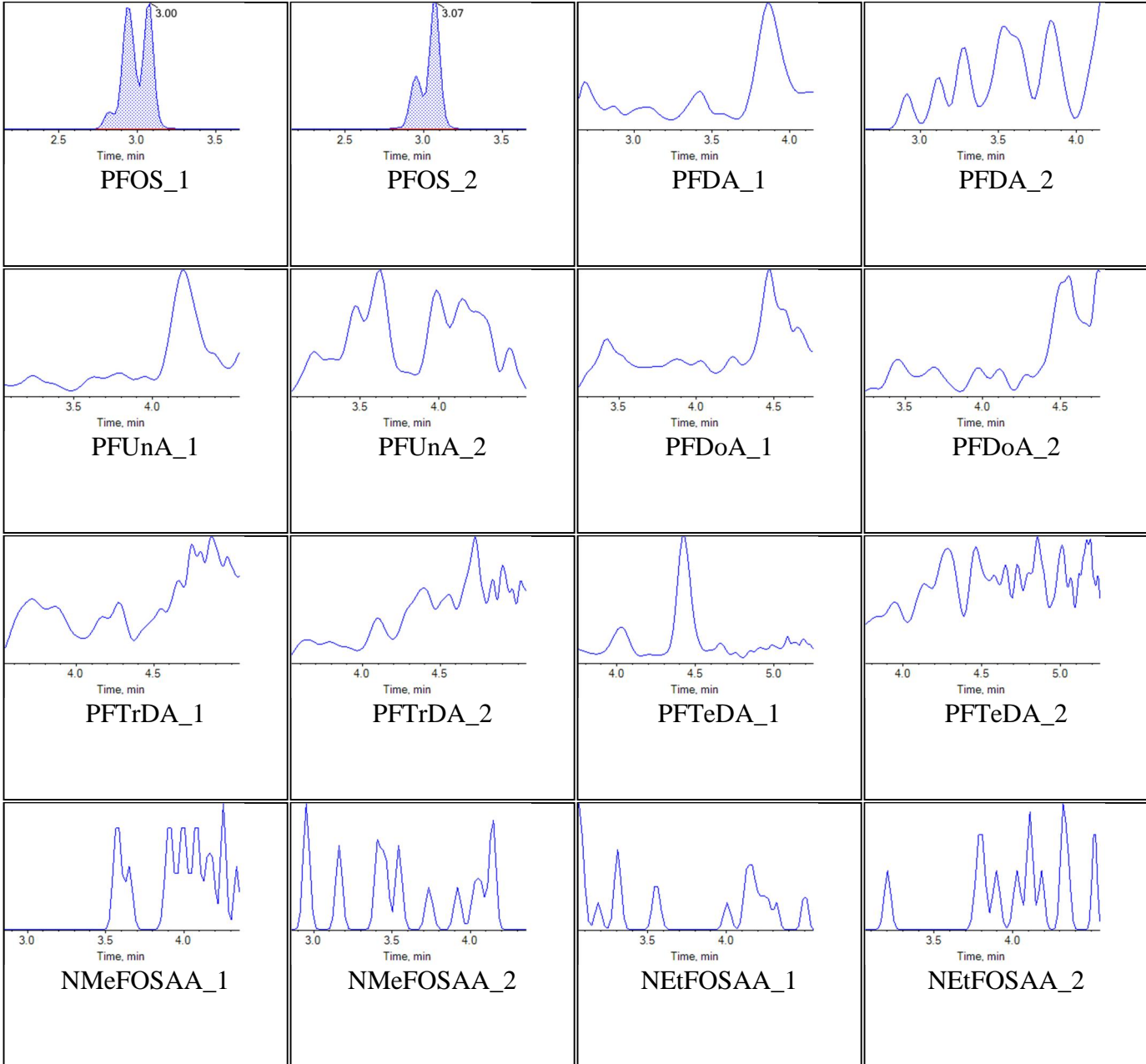


<b>Sample Name</b>	J8460-FS-D(5)	<b>Injection Vial</b>	49
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:28:28	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

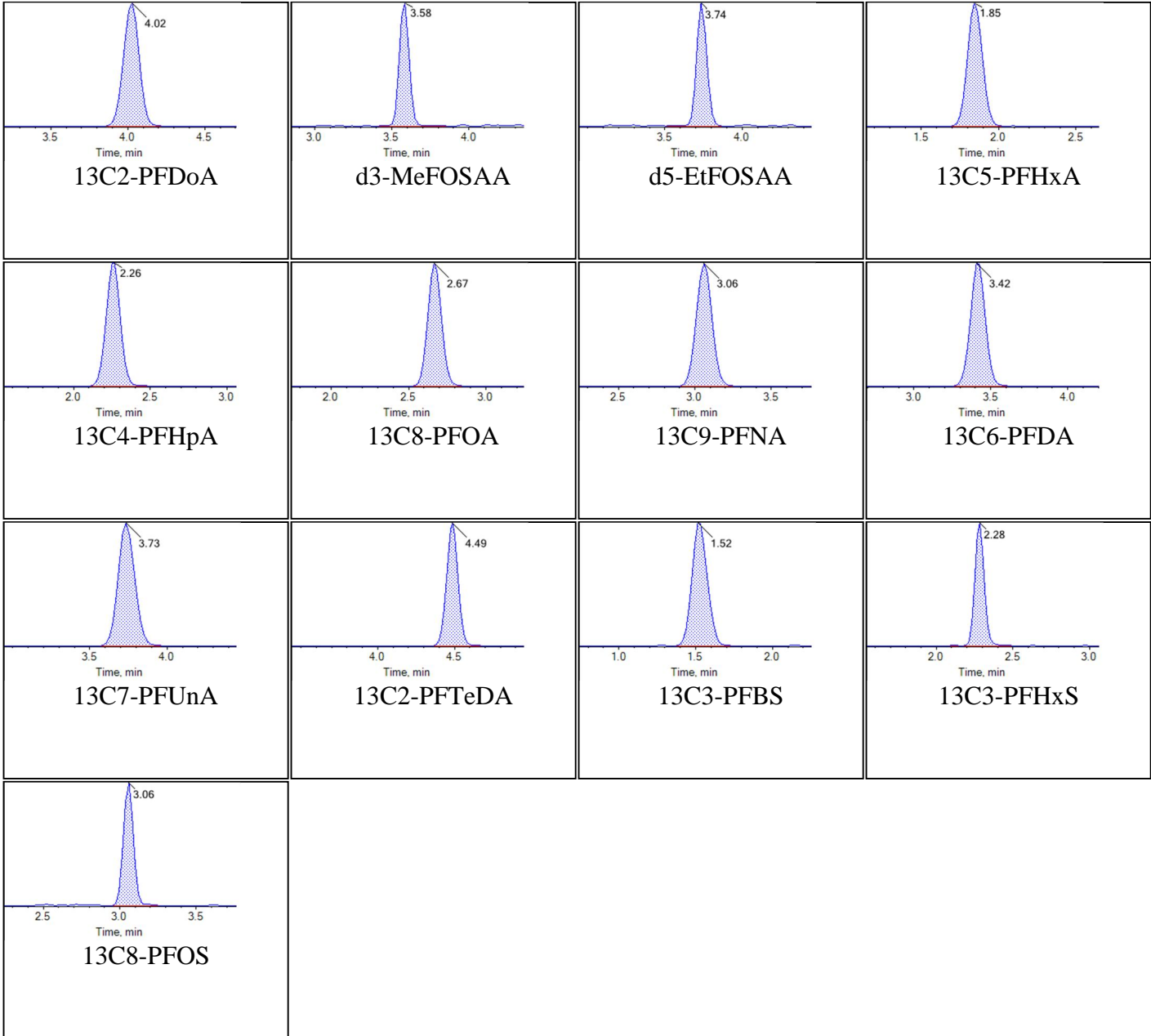
## Chromatograms

### Target Analytes:





Internal Standards:

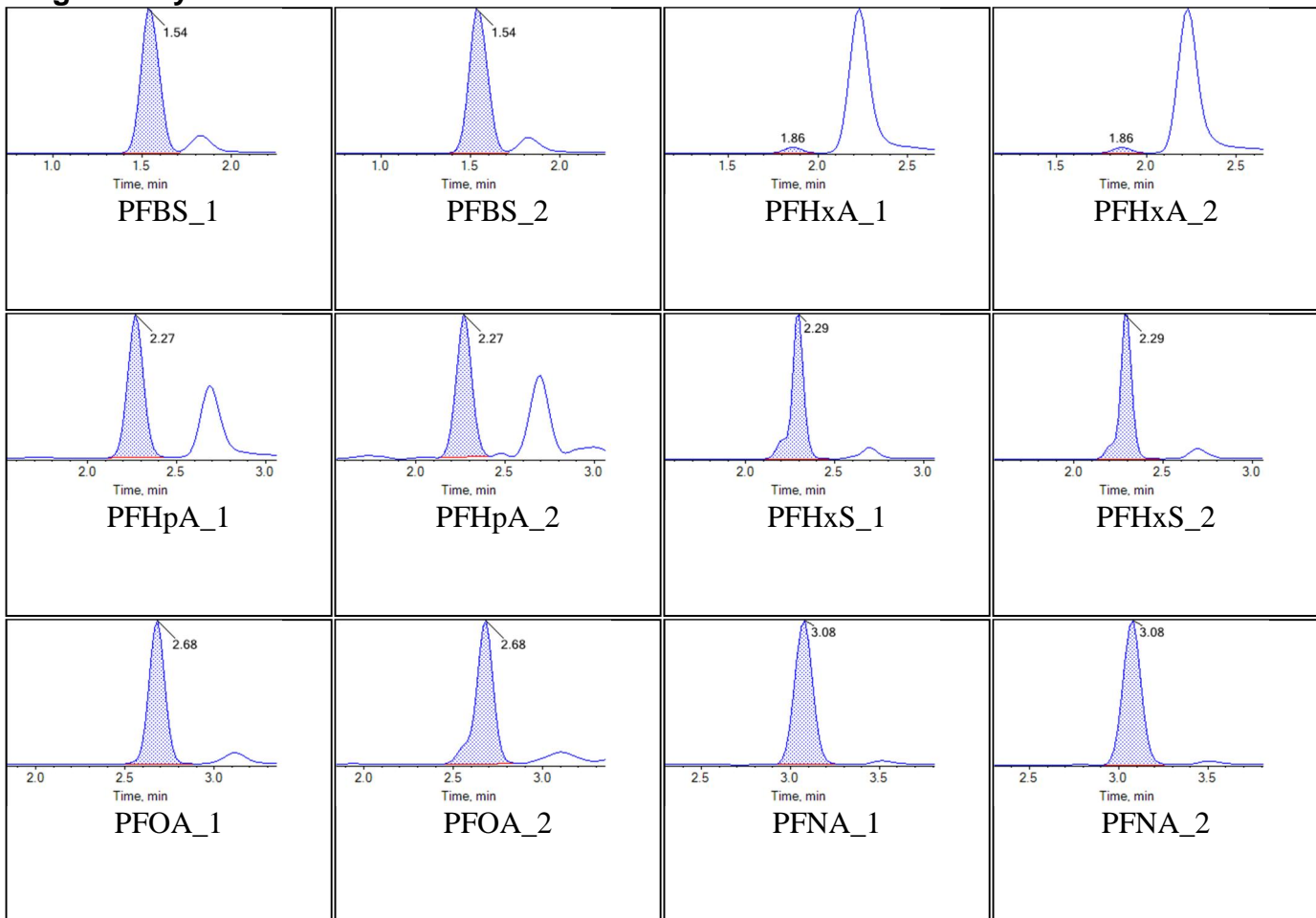




<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	50
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:39:20	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

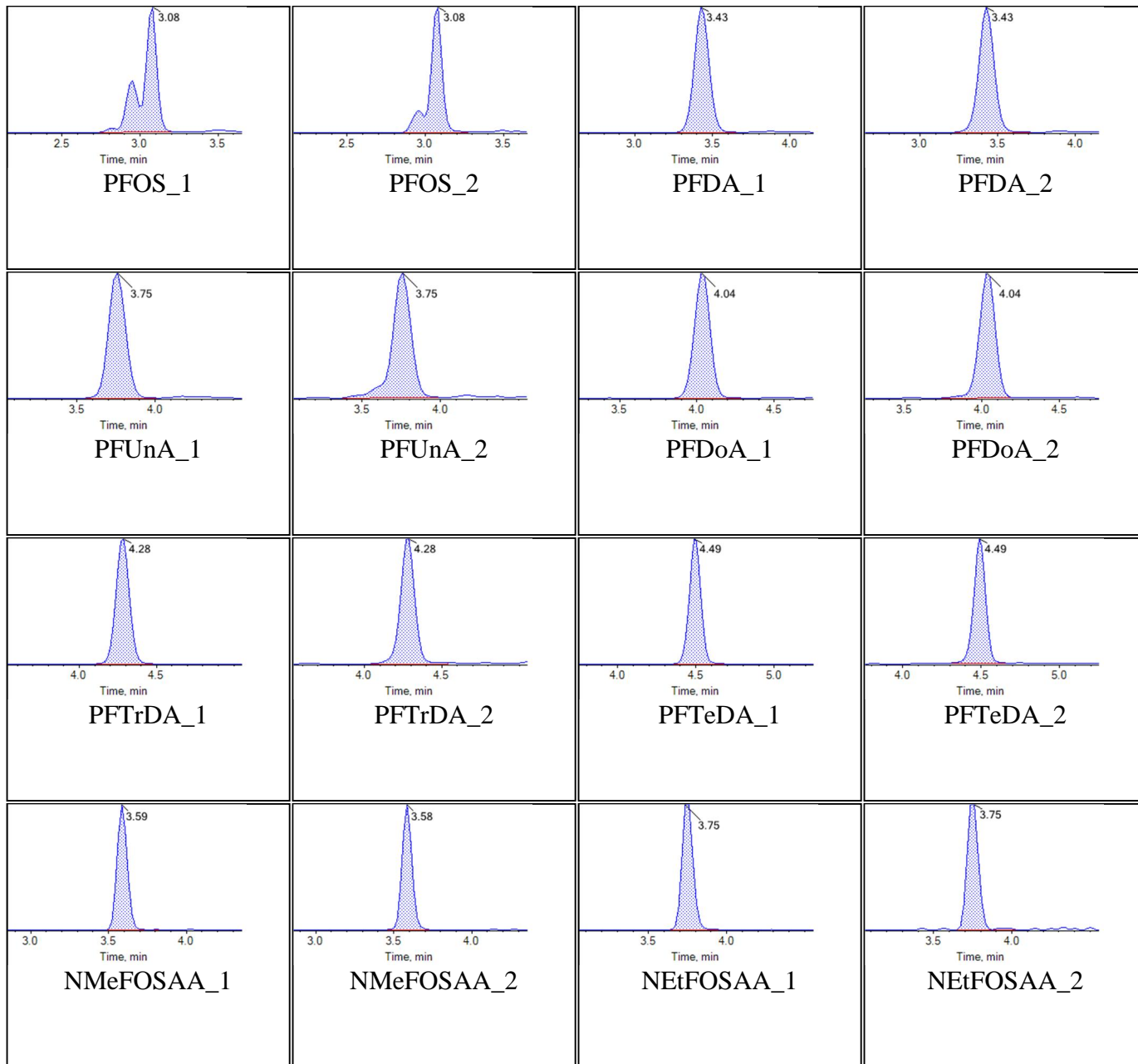
### Target Analytes:



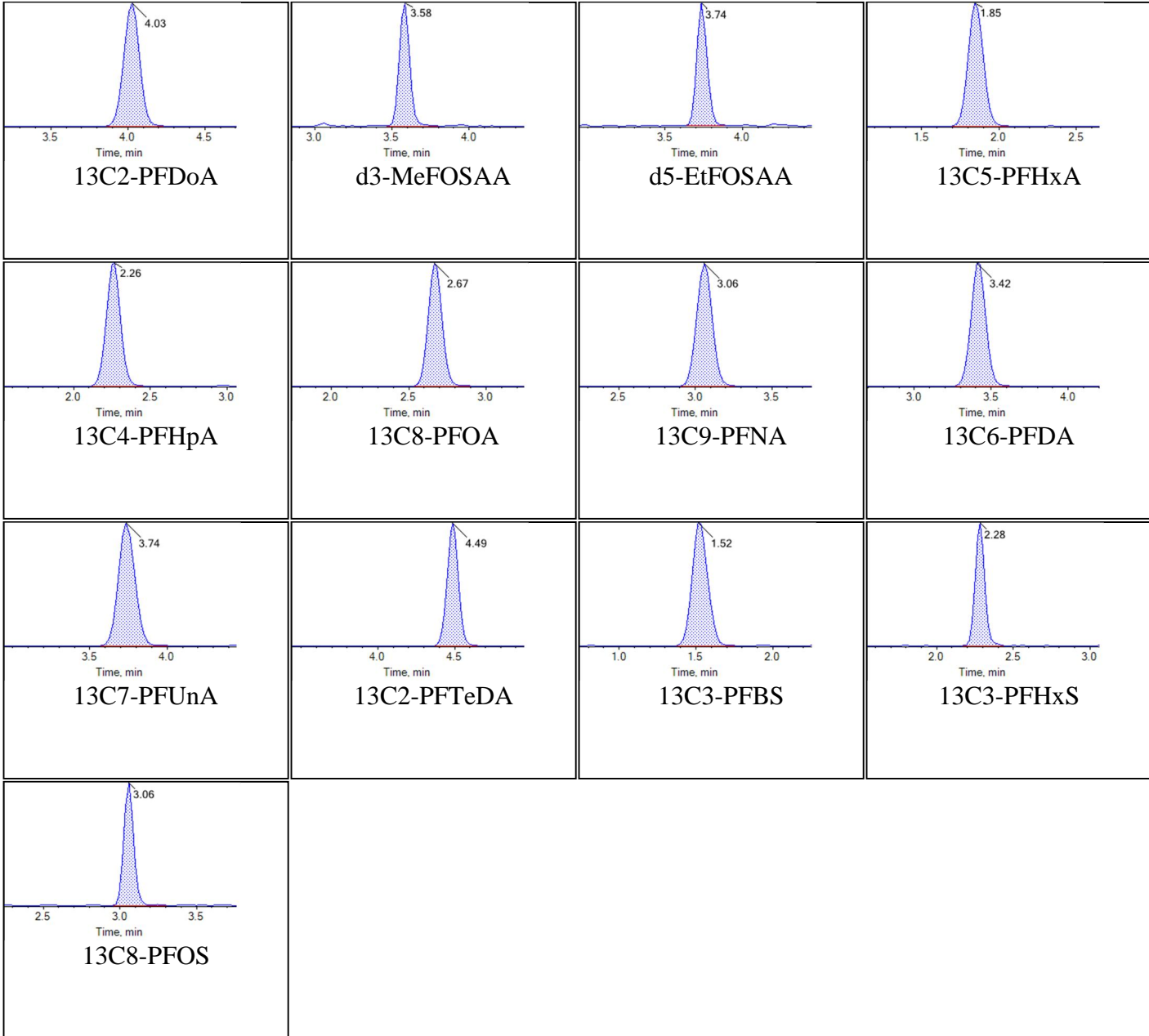


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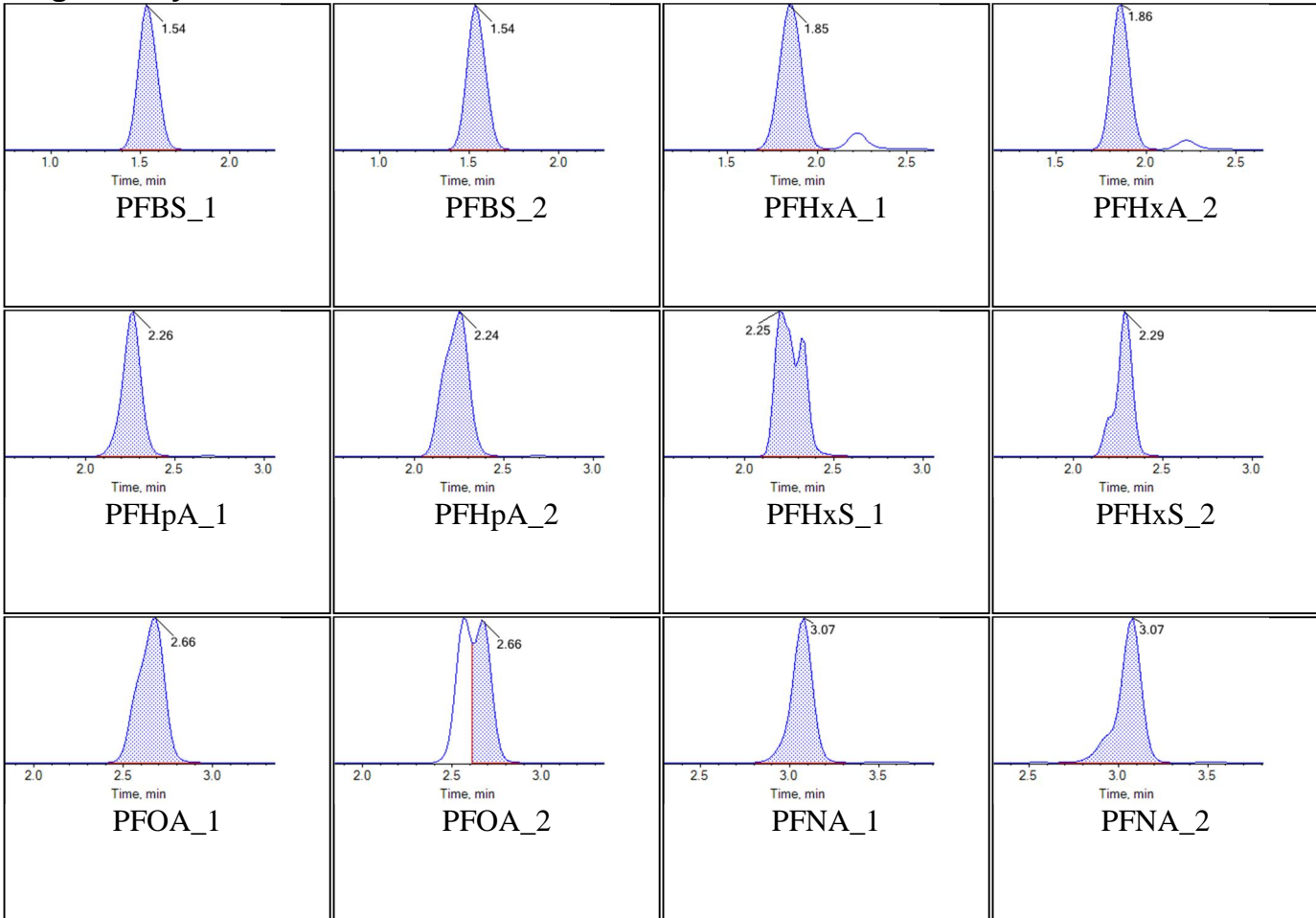
Internal Standards:



<b>Sample Name</b>	J8461-FS(0)	<b>Injection Vial</b>	52
<b>Sample ID</b>	VC-MS09-DW04P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:01:04	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Chromatograms

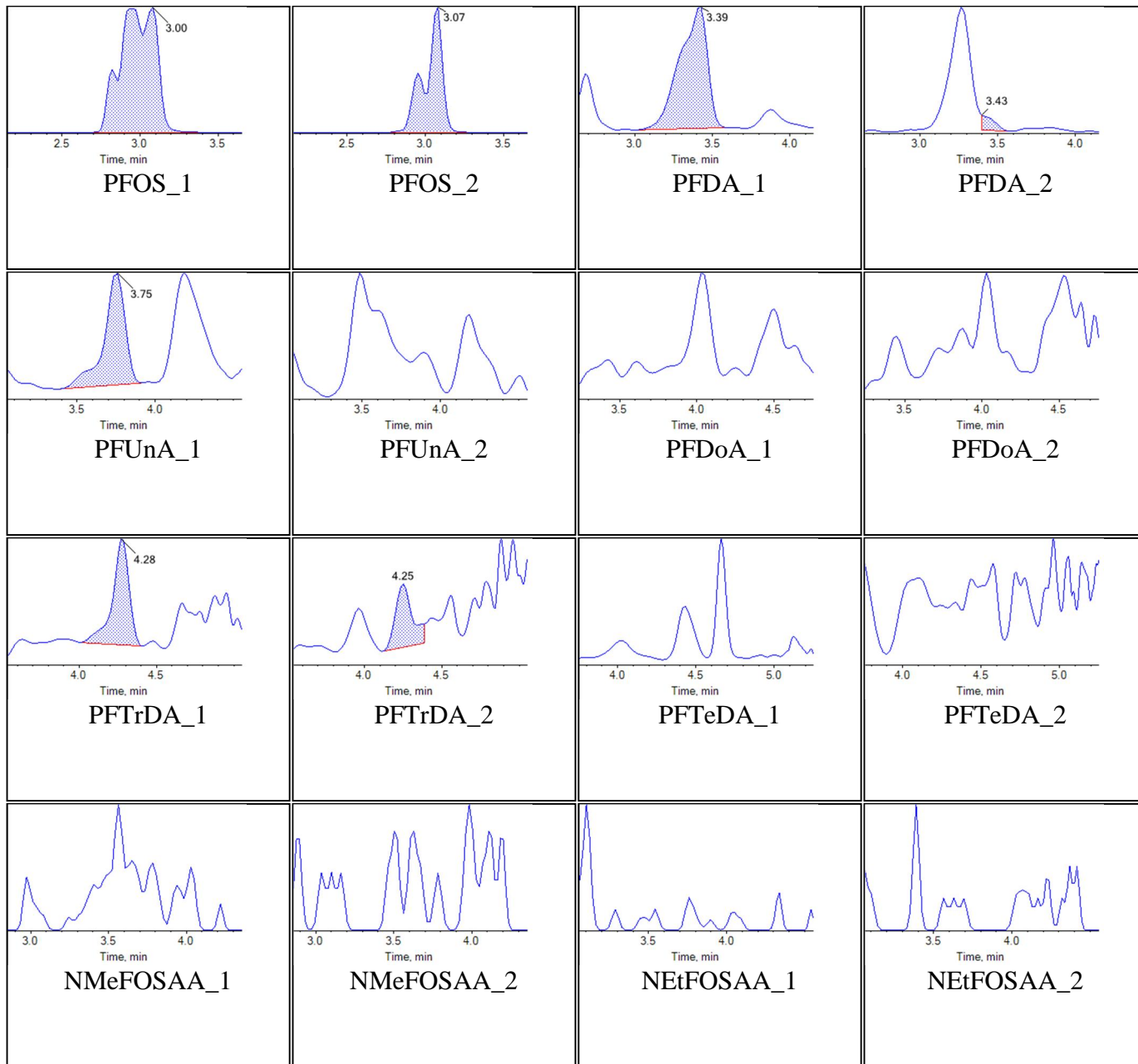
#### Target Analytes:



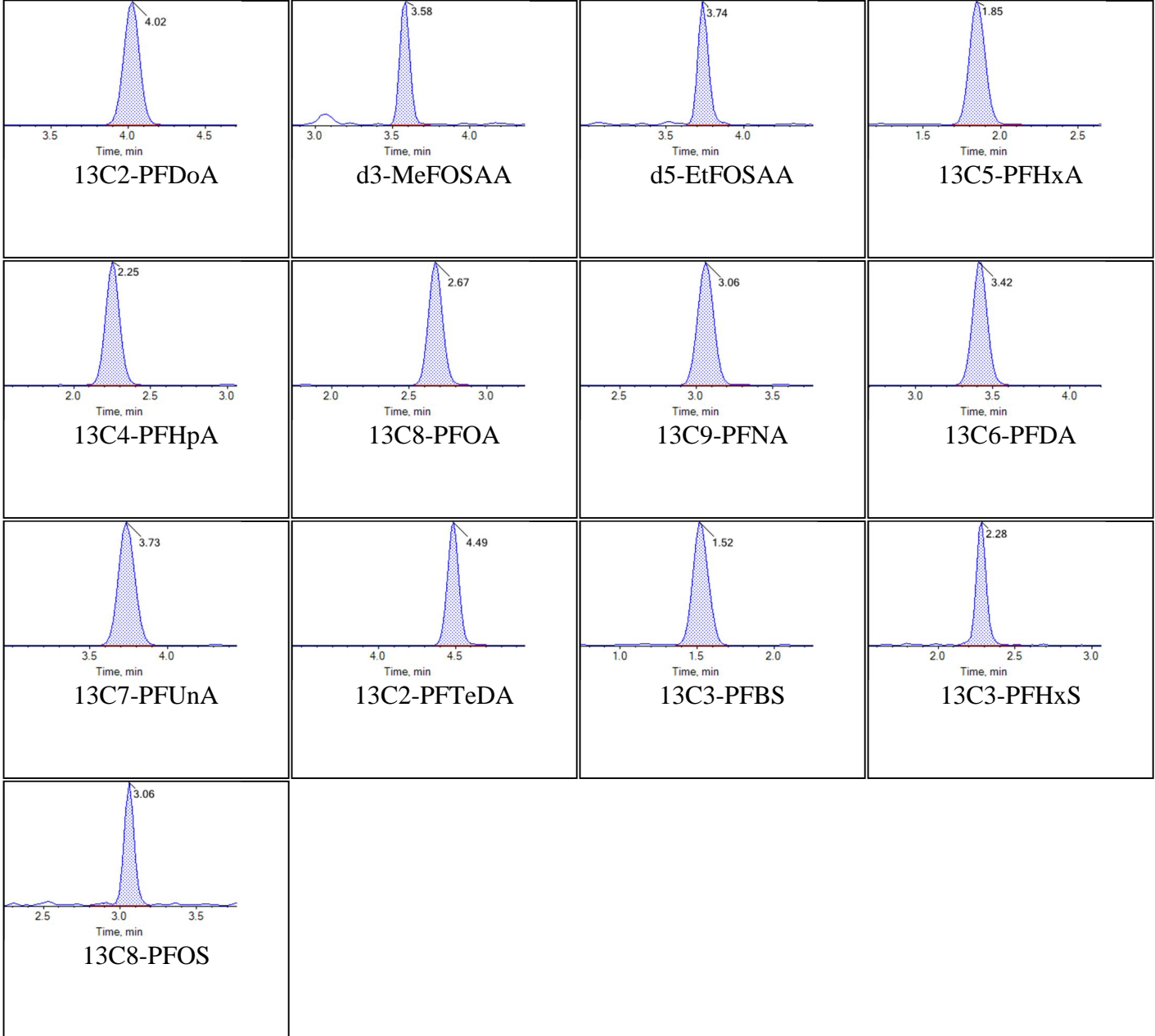


Chromatogram Report

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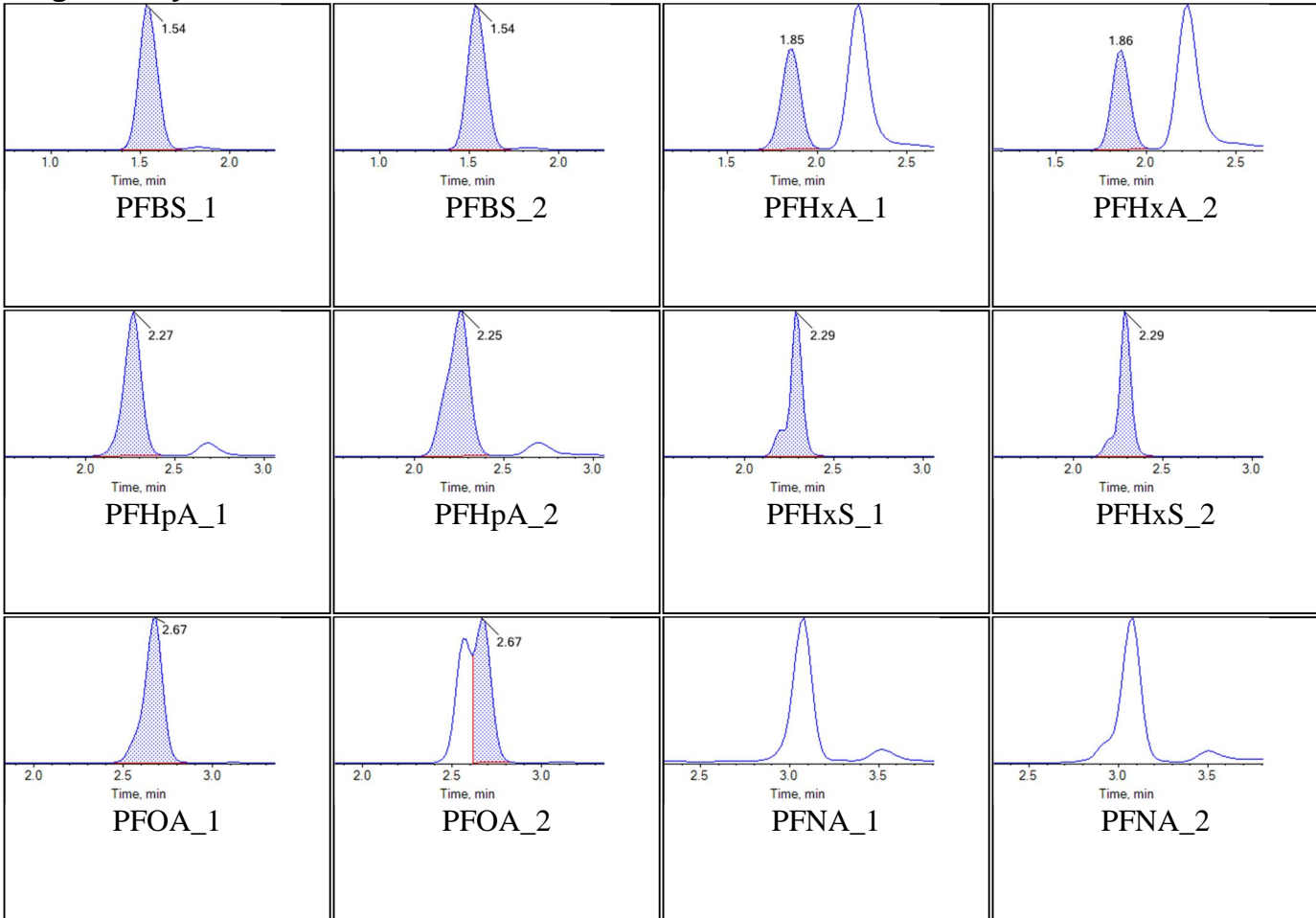
Internal Standards:



<b>Sample Name</b>	J8461-FS-D(3)	<b>Injection Vial</b>	53
<b>Sample ID</b>	VC-MS09-DW04P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:11:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

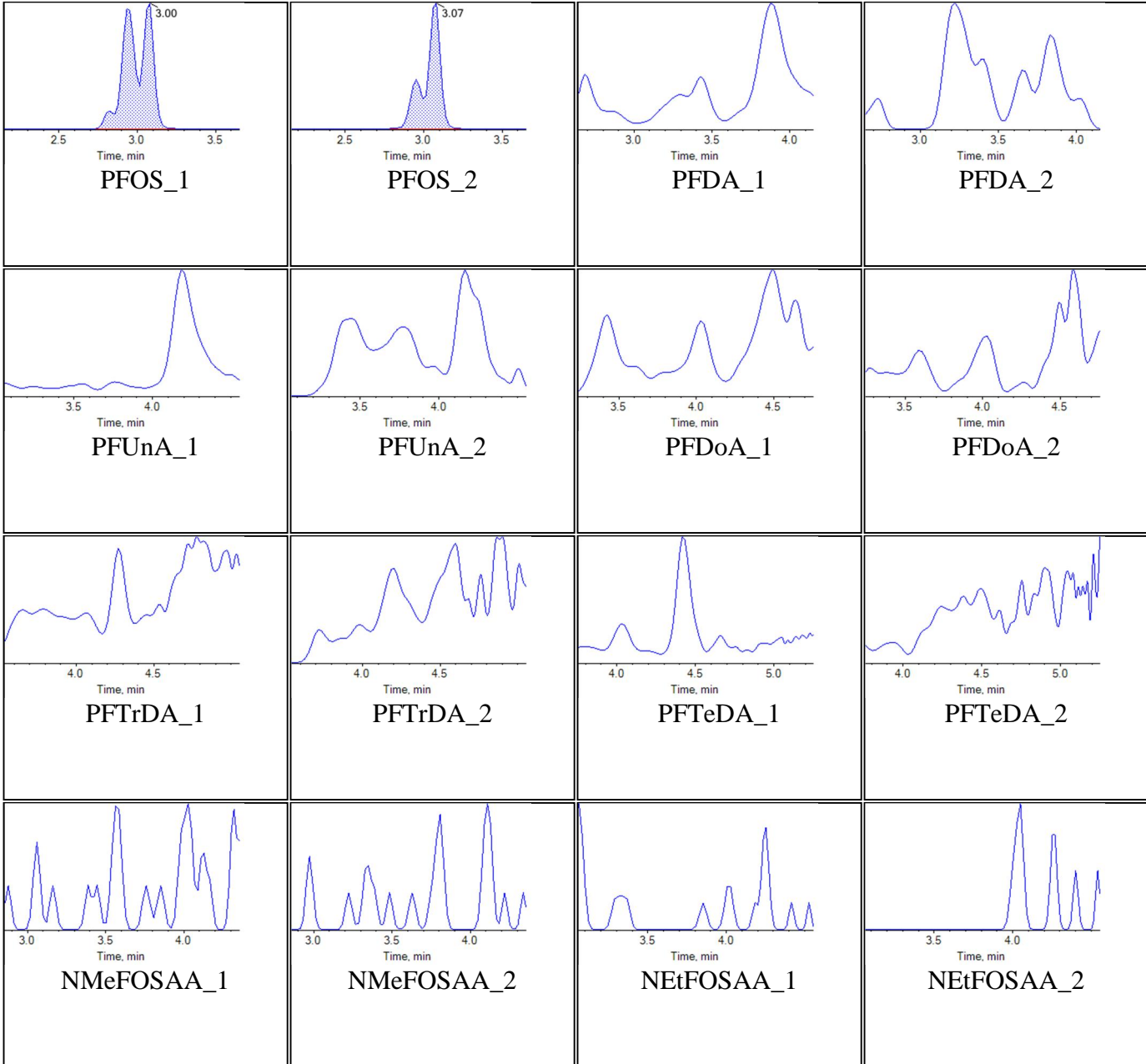
### Target Analytes:





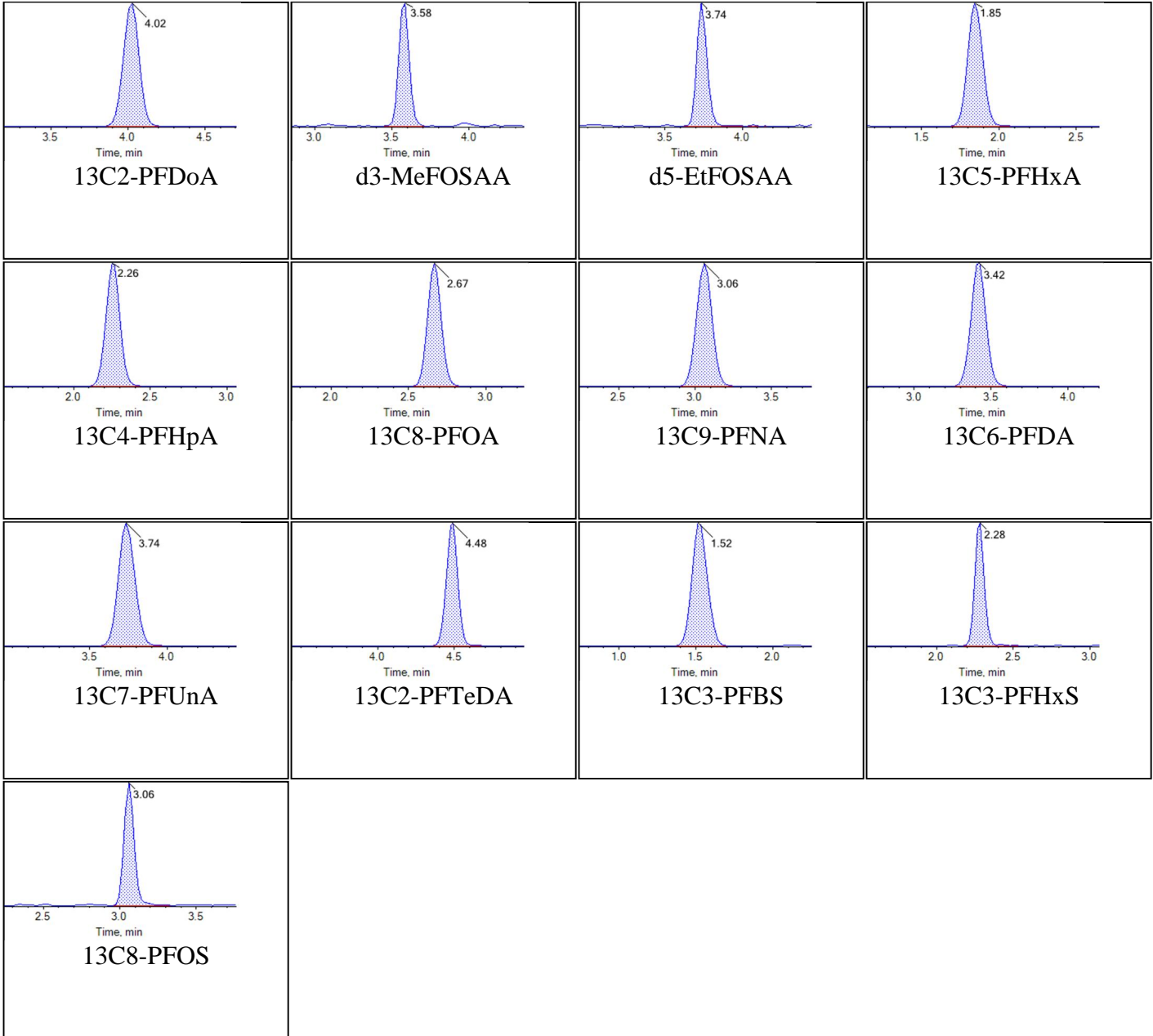
Chromatogram Report

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Internal Standards:

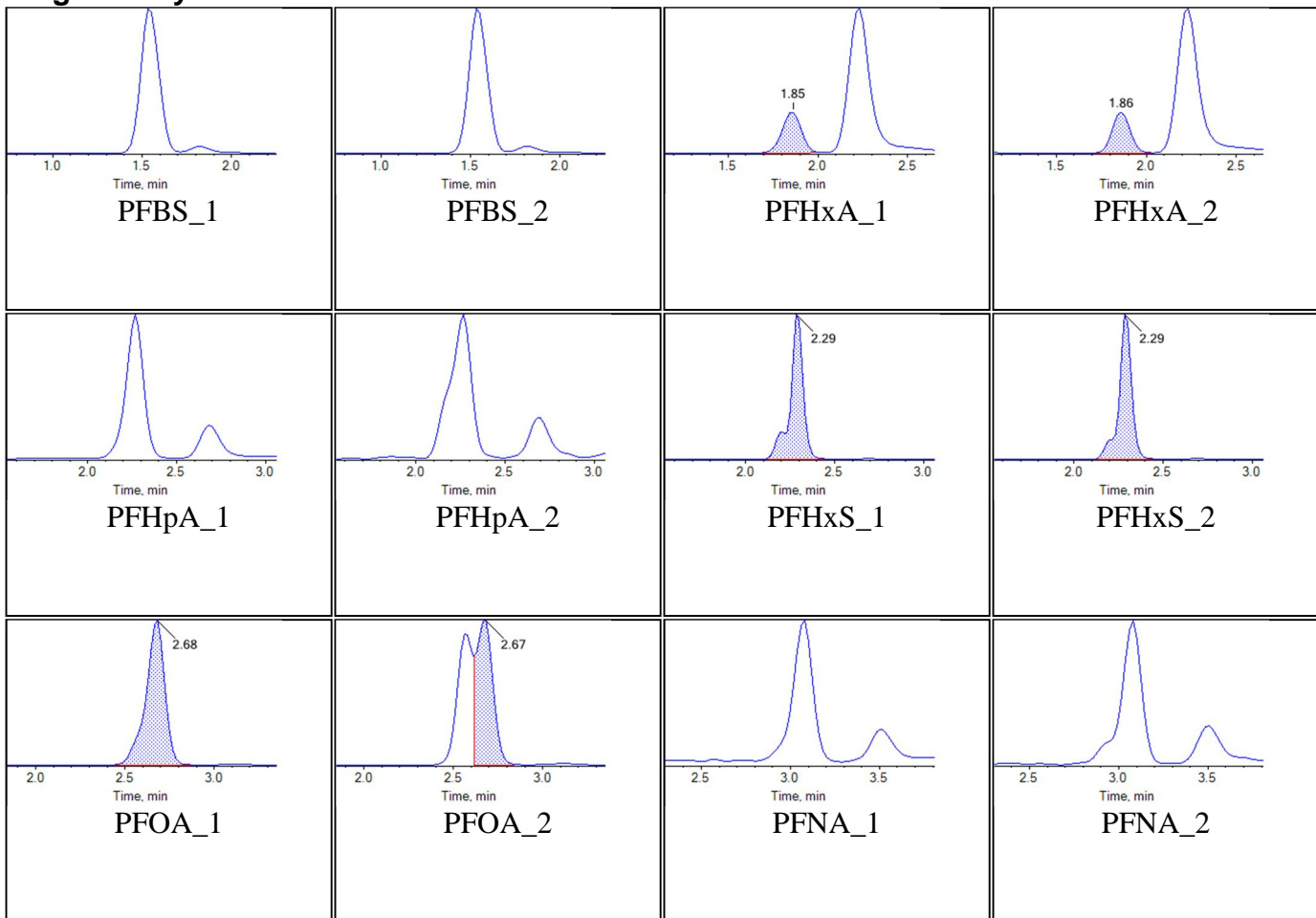




<b>Sample Name</b>	J8461-FS-D(5)	<b>Injection Vial</b>	54
<b>Sample ID</b>	VC-MS09-DW04P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:22:47	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

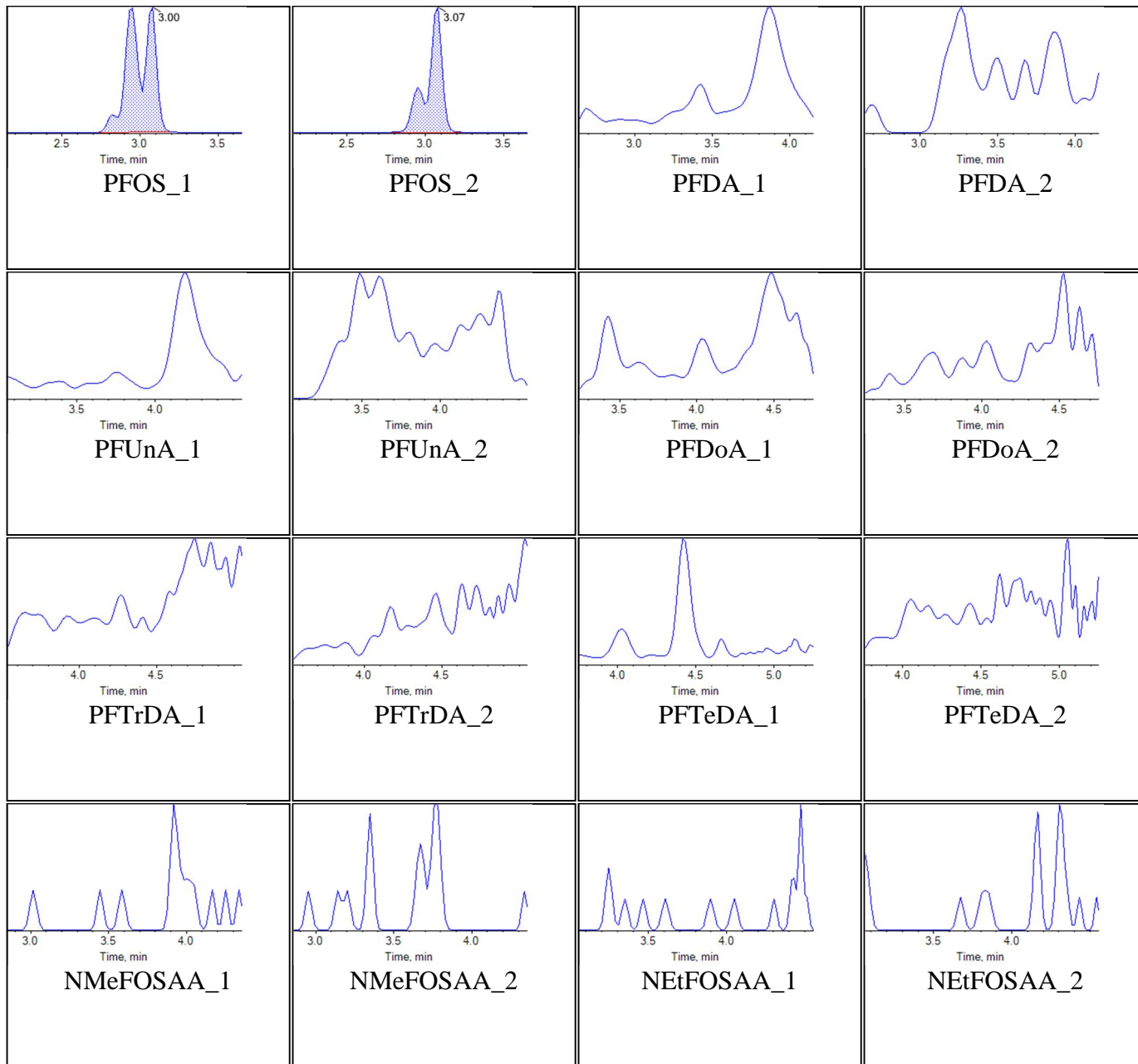
### Target Analytes:



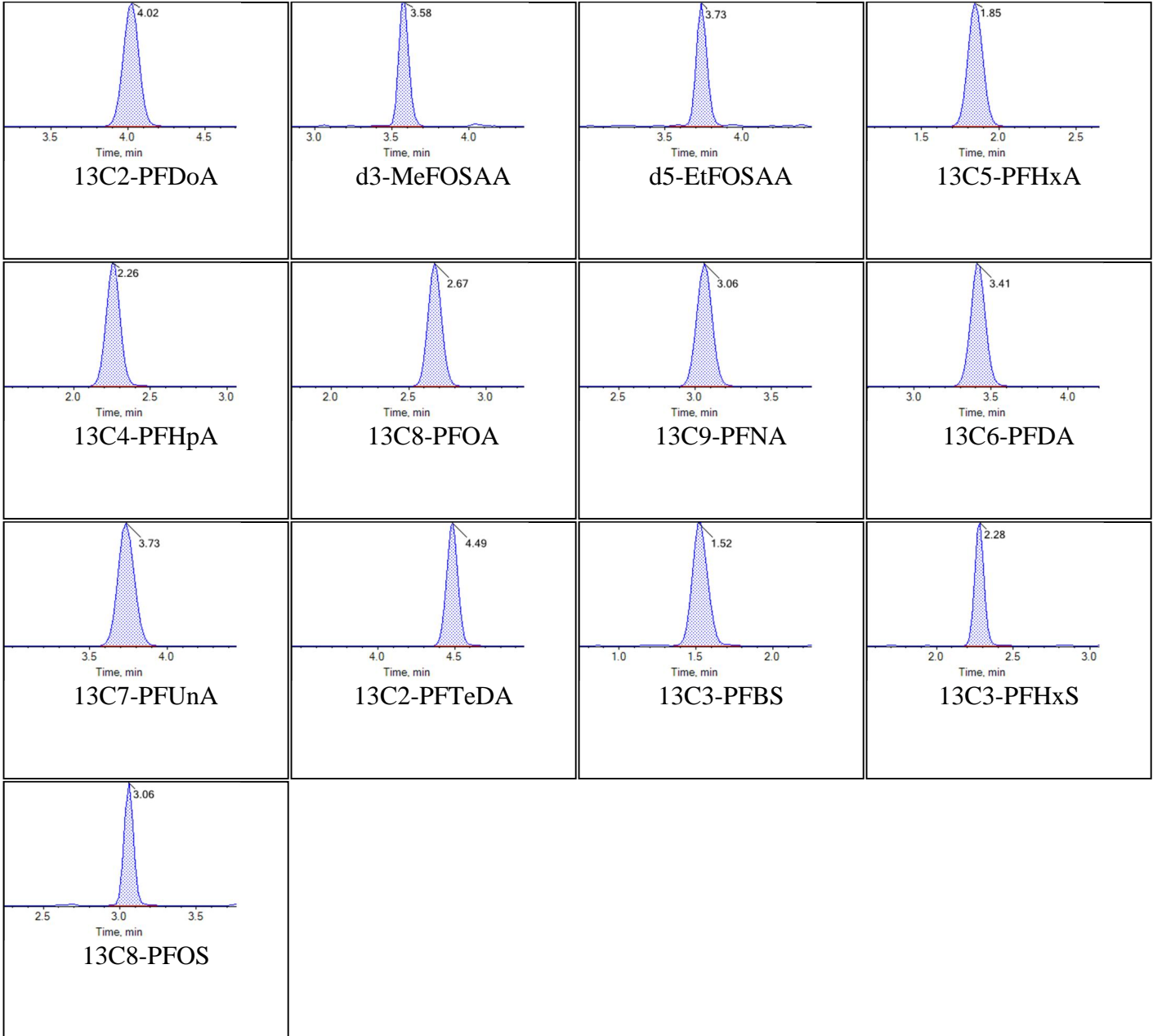


Chromatogram Report

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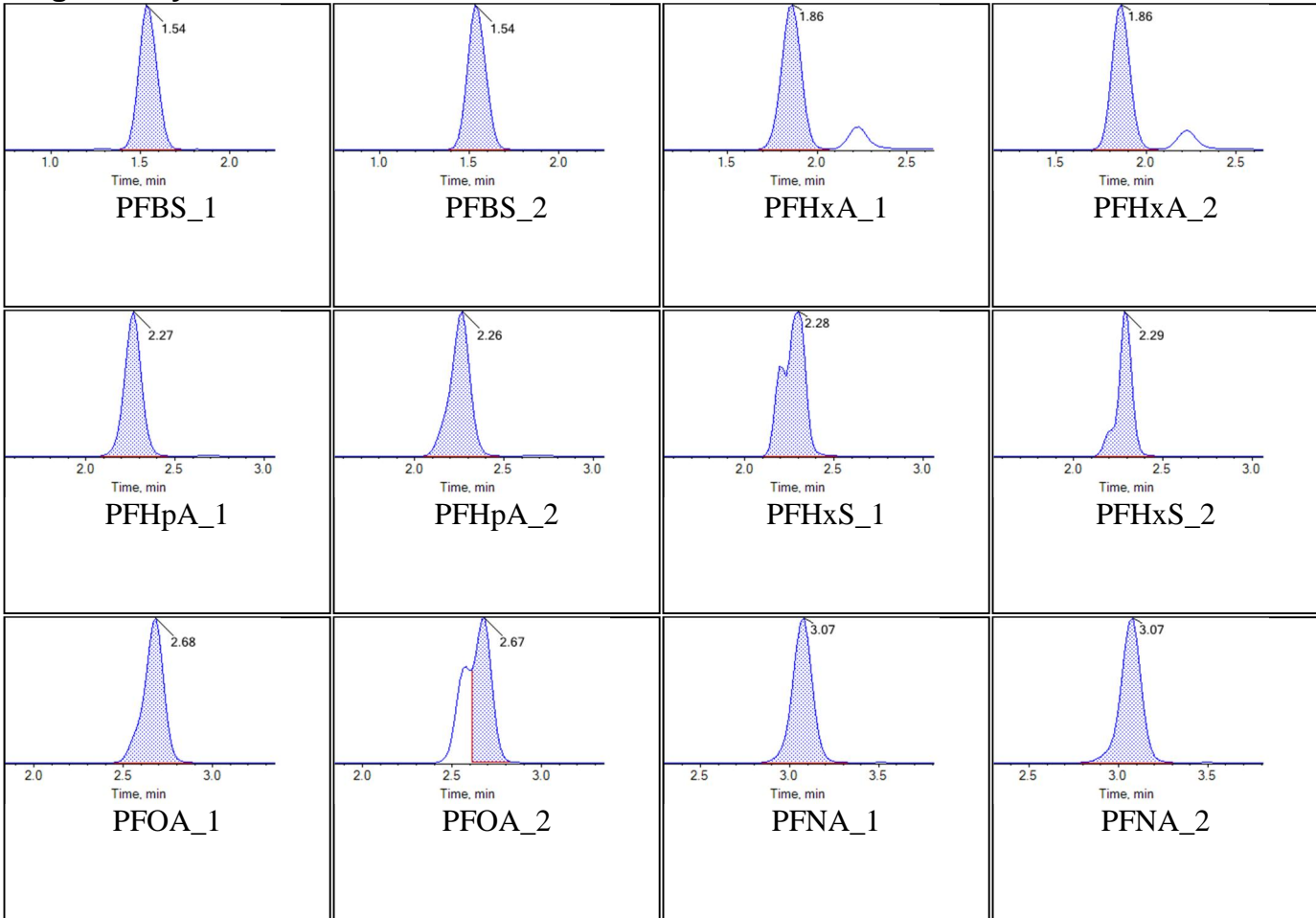
Internal Standards:

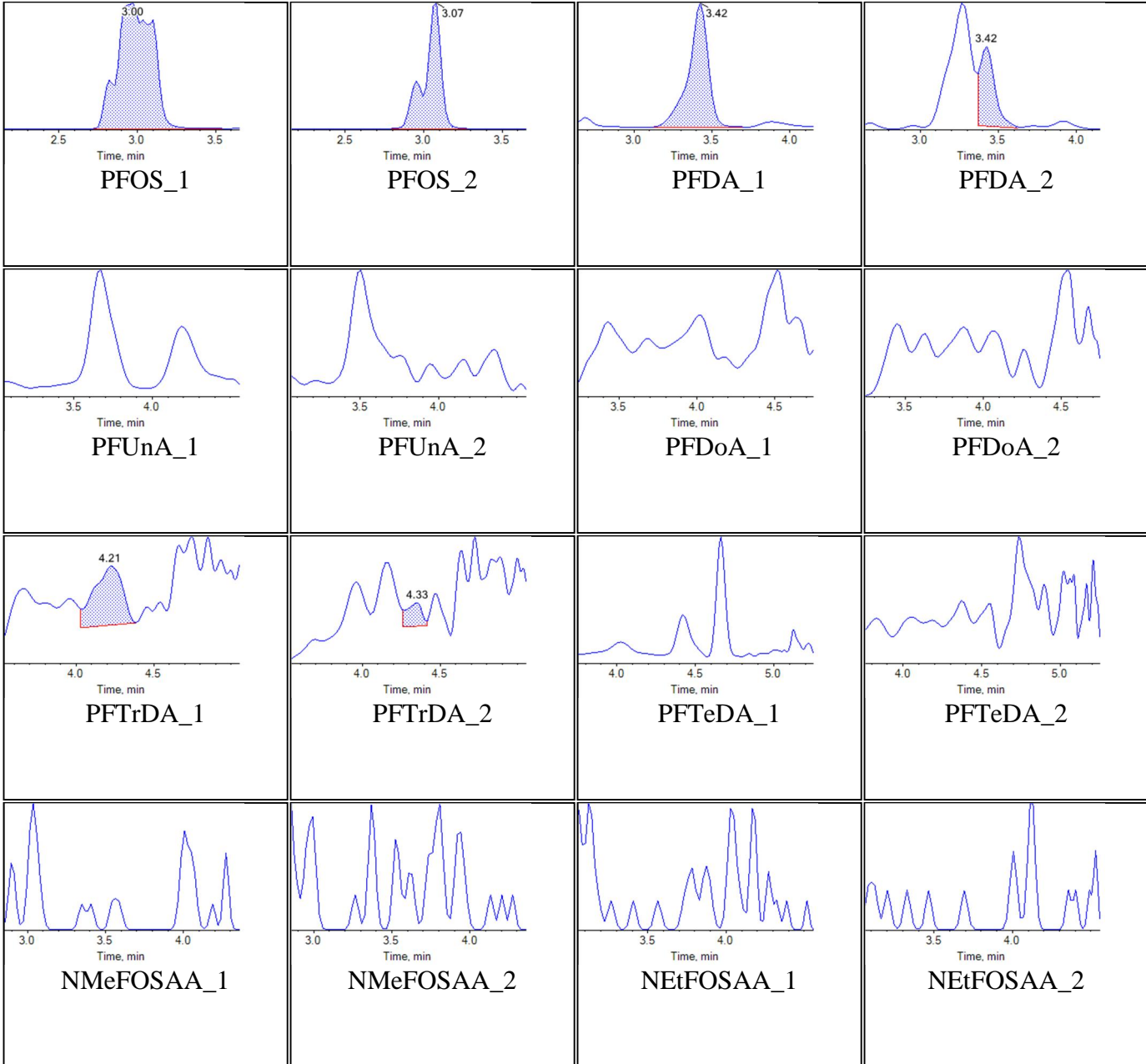


<b>Sample Name</b>	J8462-FS(0)	<b>Injection Vial</b>	1
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:33:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

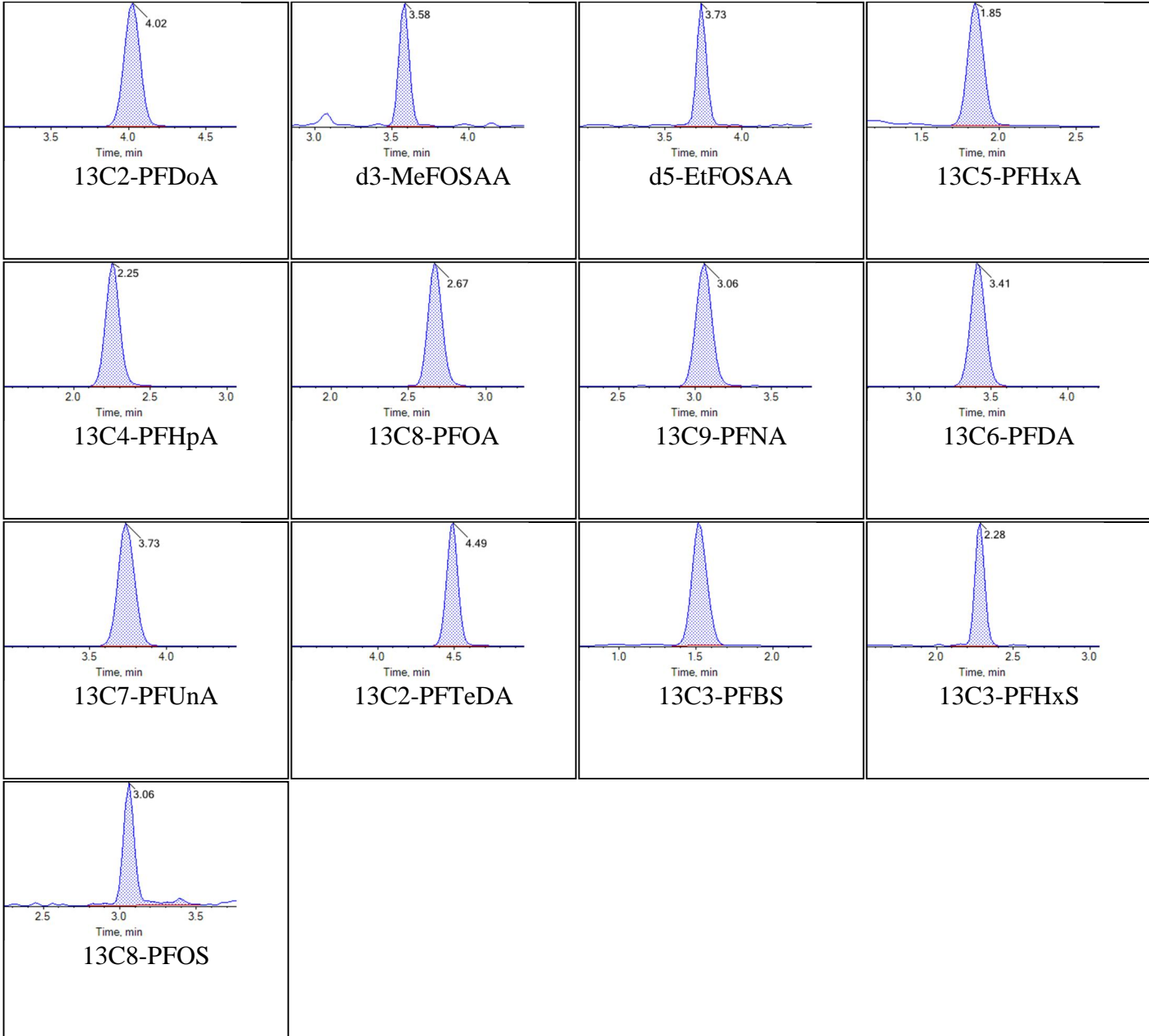
### Chromatograms

#### Target Analytes:





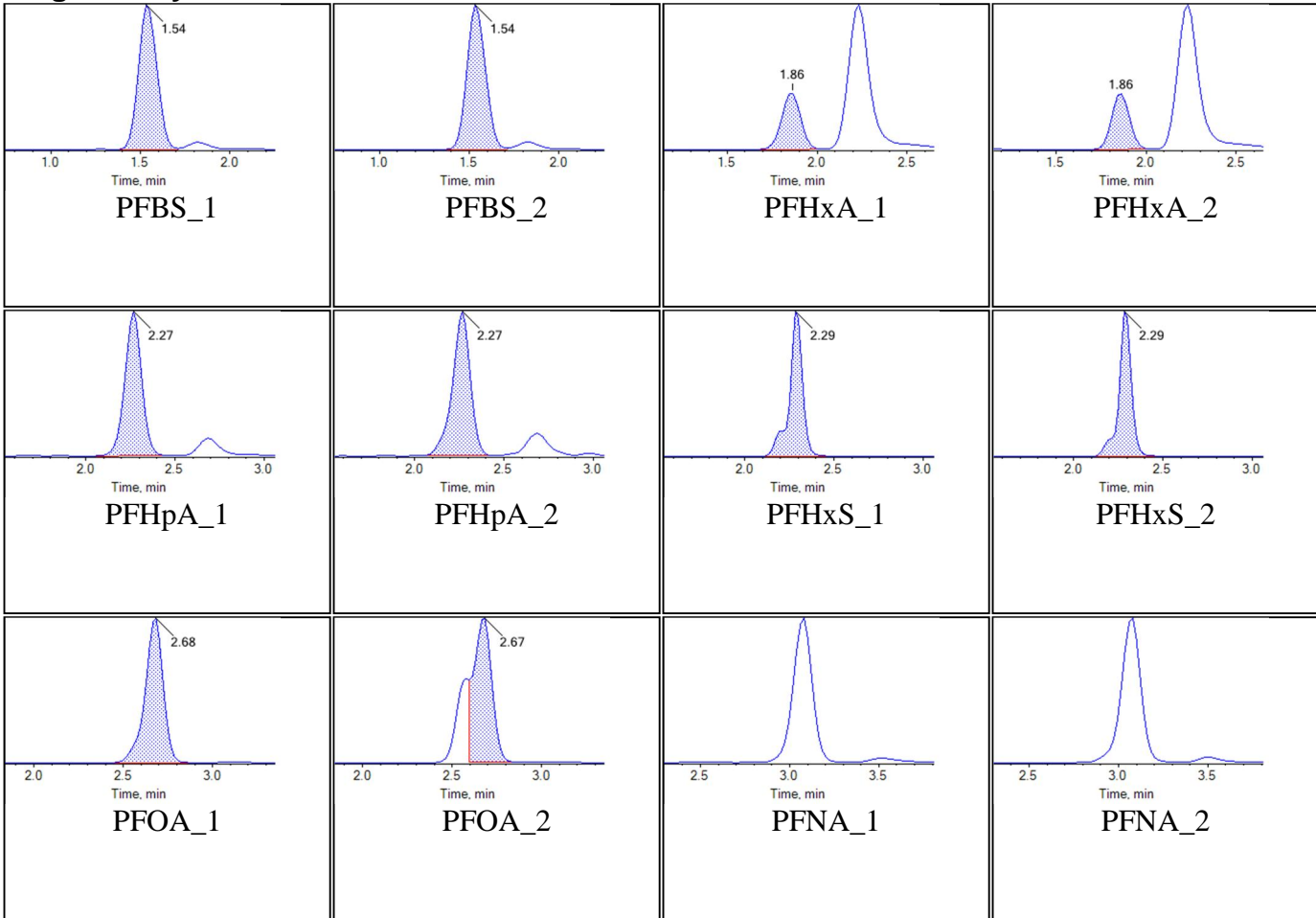
Internal Standards:



<b>Sample Name</b>	J8462-FS-D(3)	<b>Injection Vial</b>	2
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:44:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:

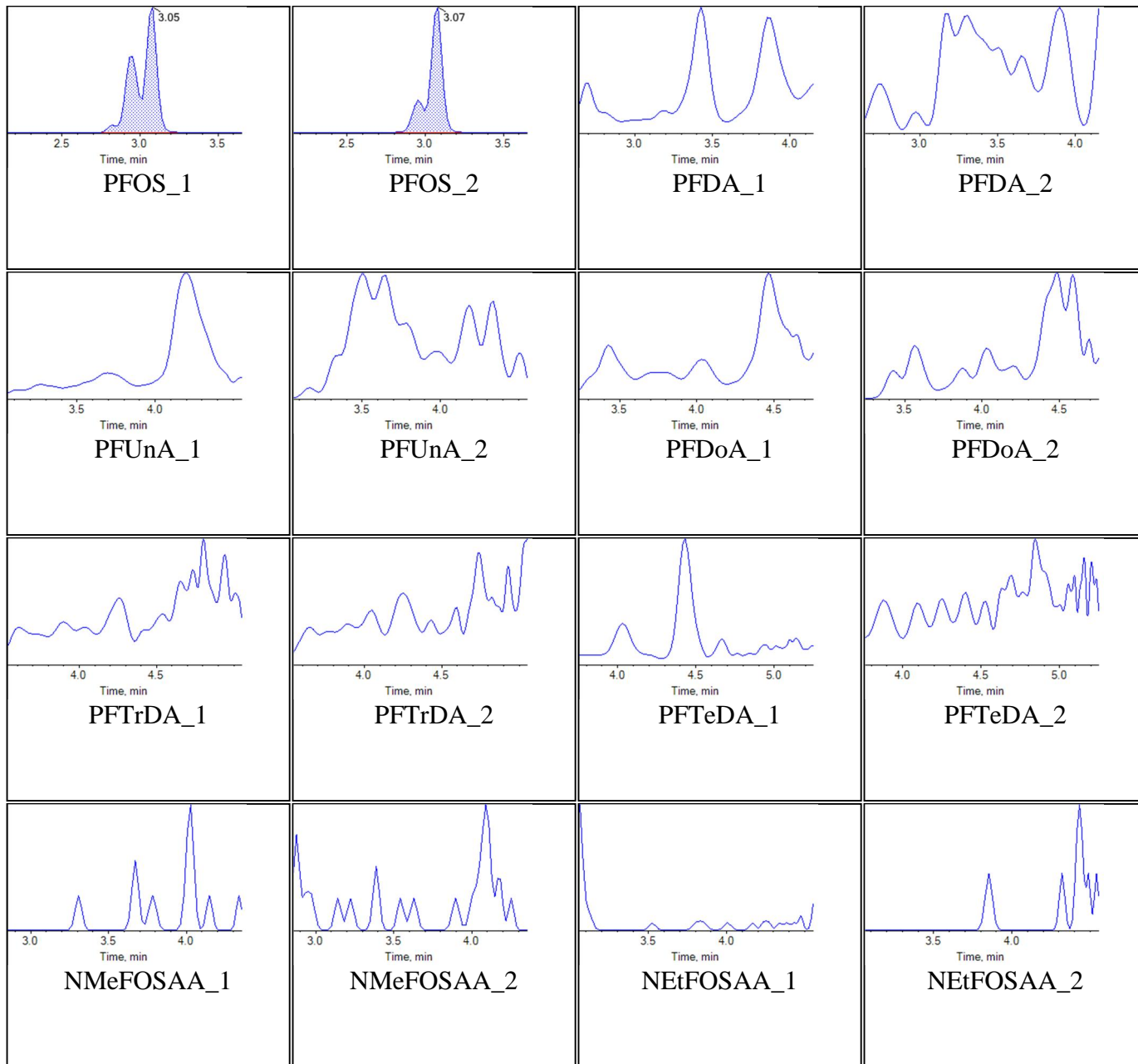




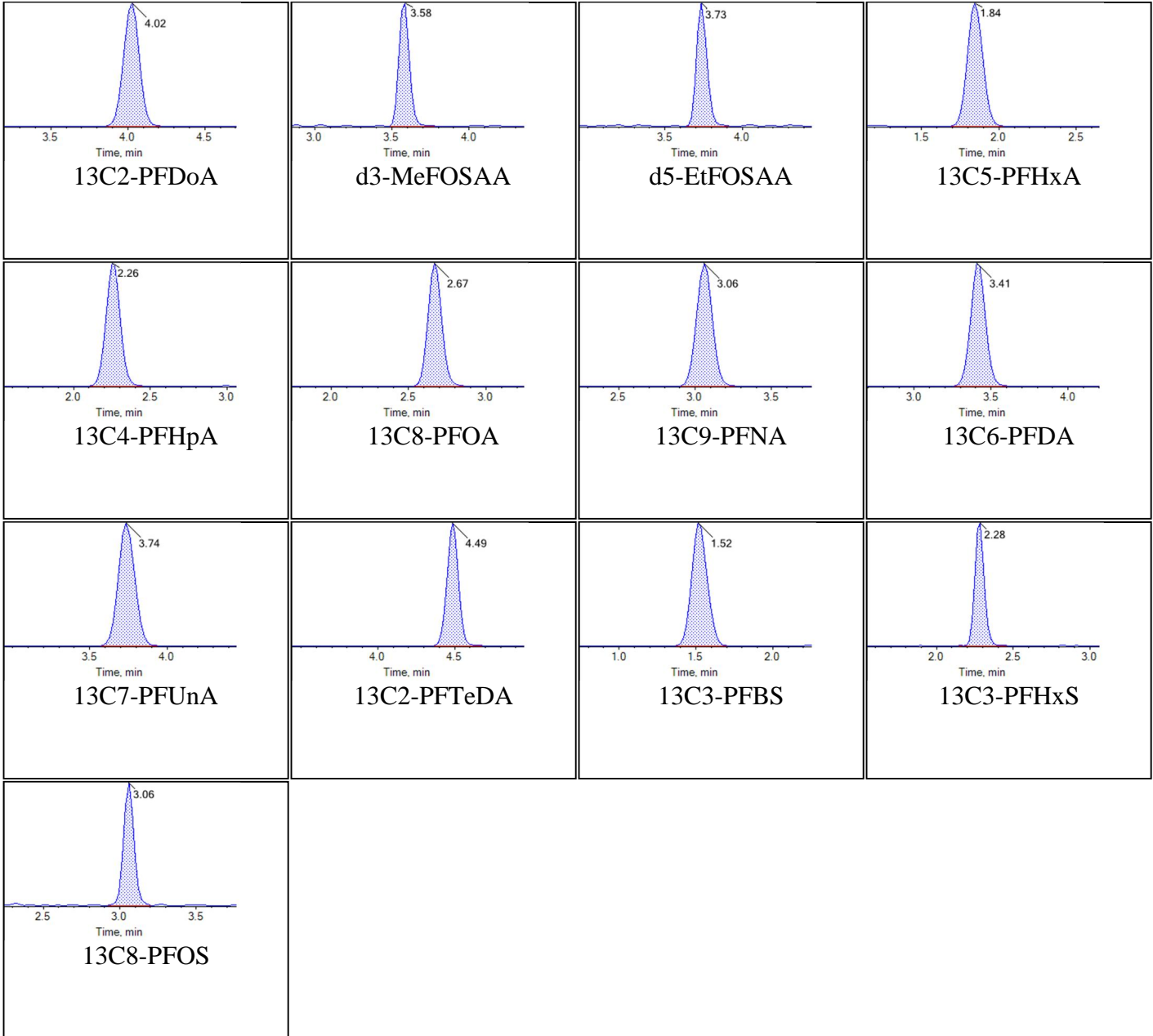


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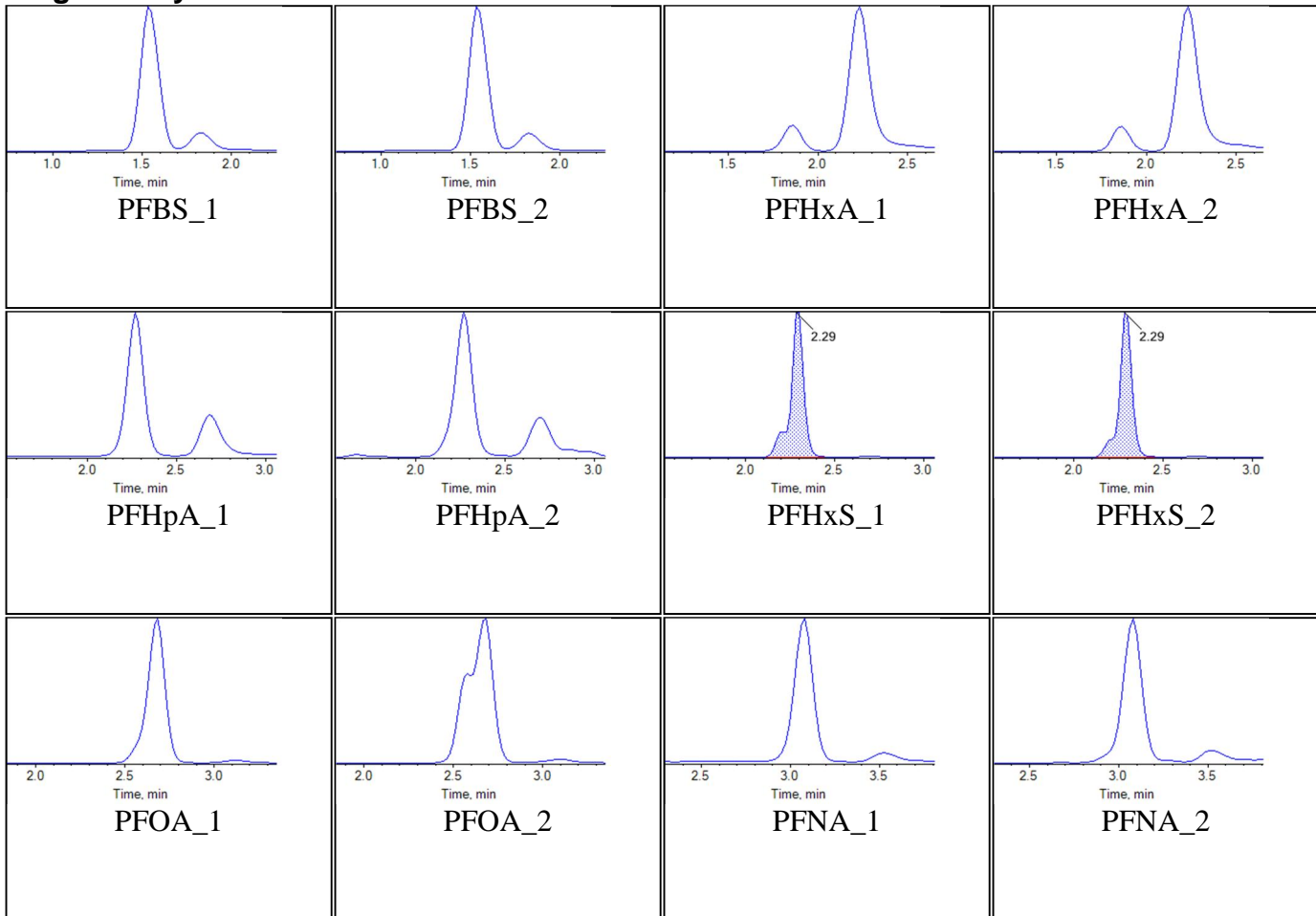
Internal Standards:

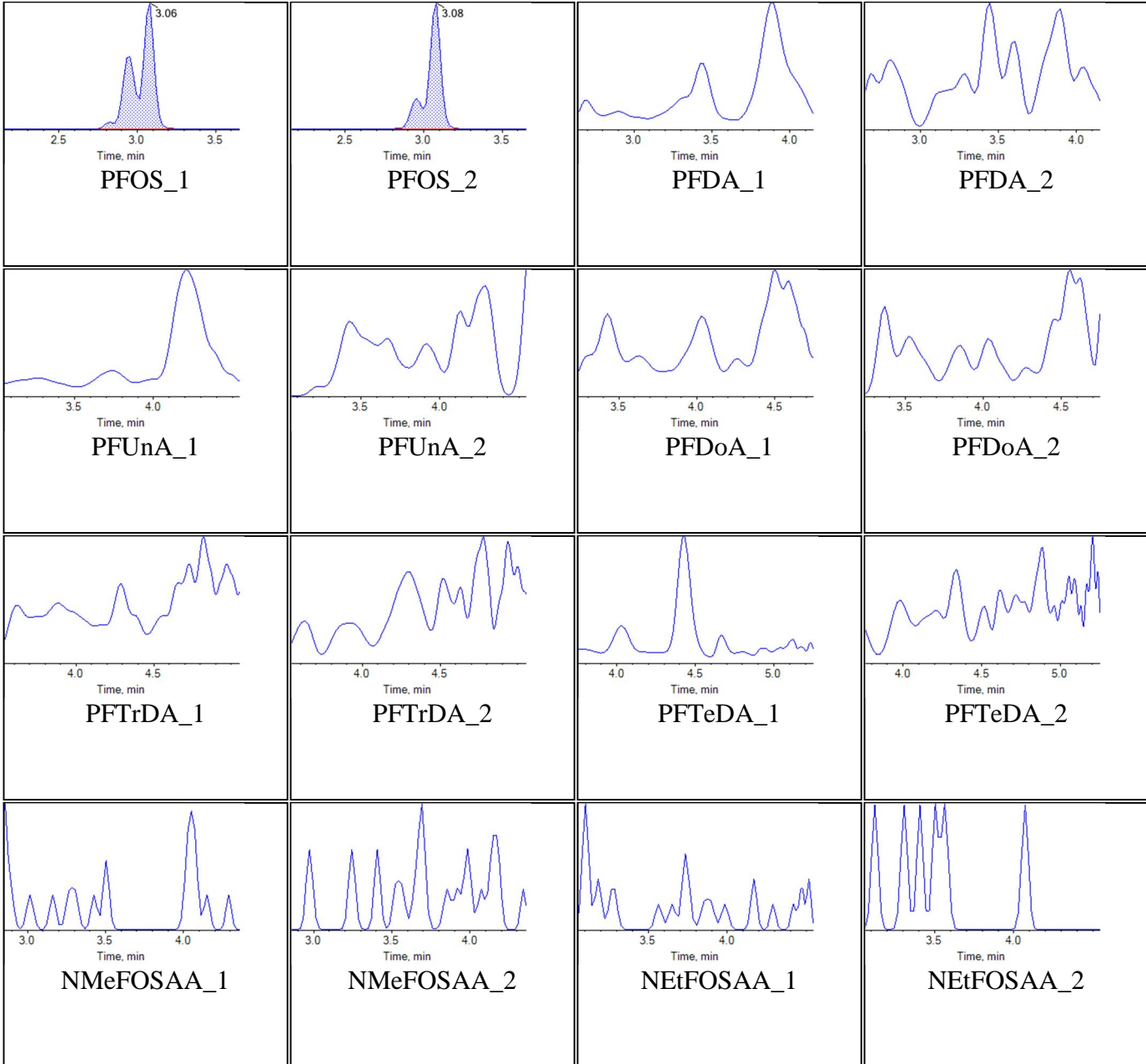


Sample Name	J8462-FS-D(5)	Injection Vial	3
Sample ID	VC-MS09-DW05-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:55:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_BASE
Sample Comment			

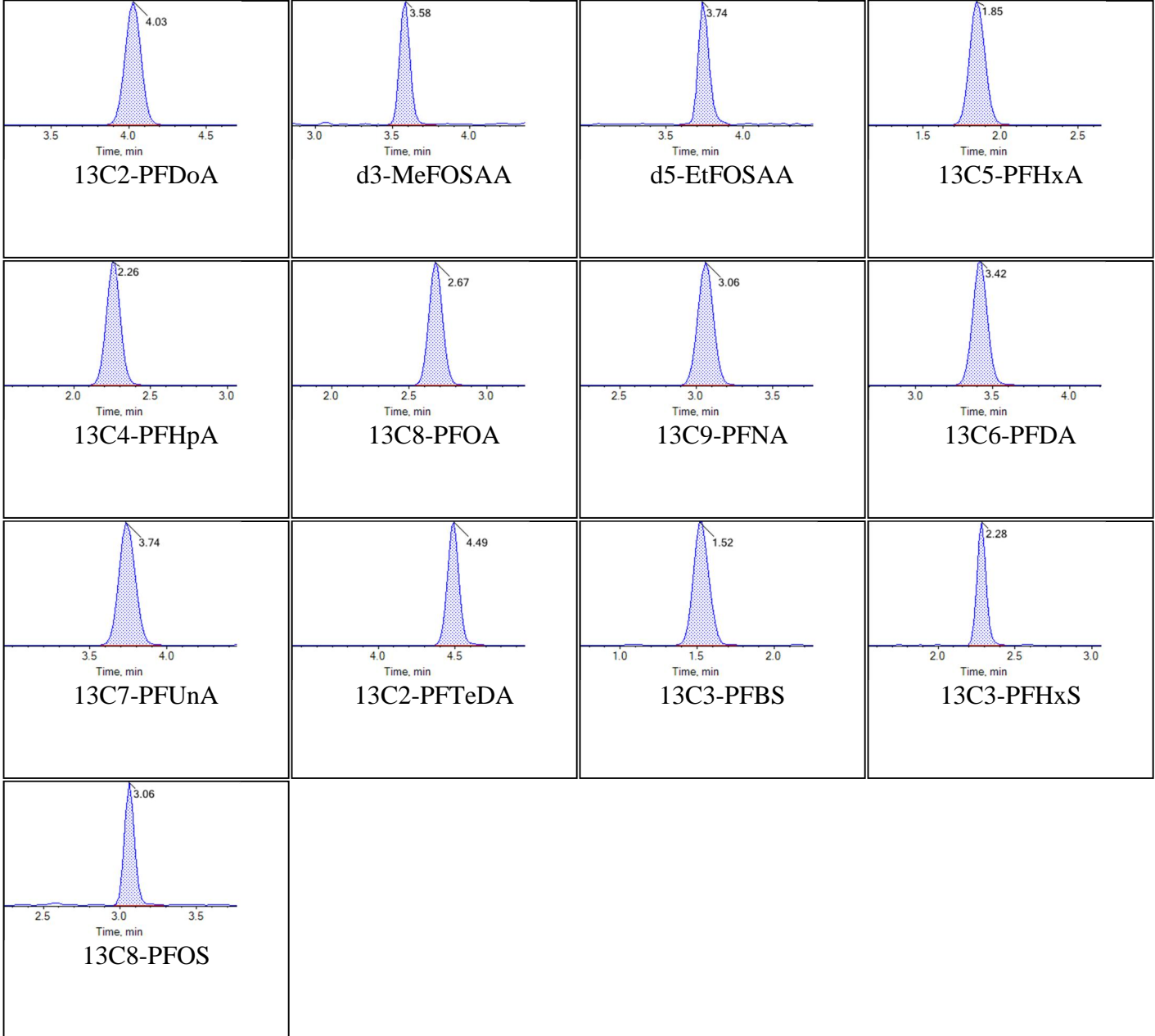
## Chromatograms

### Target Analytes:





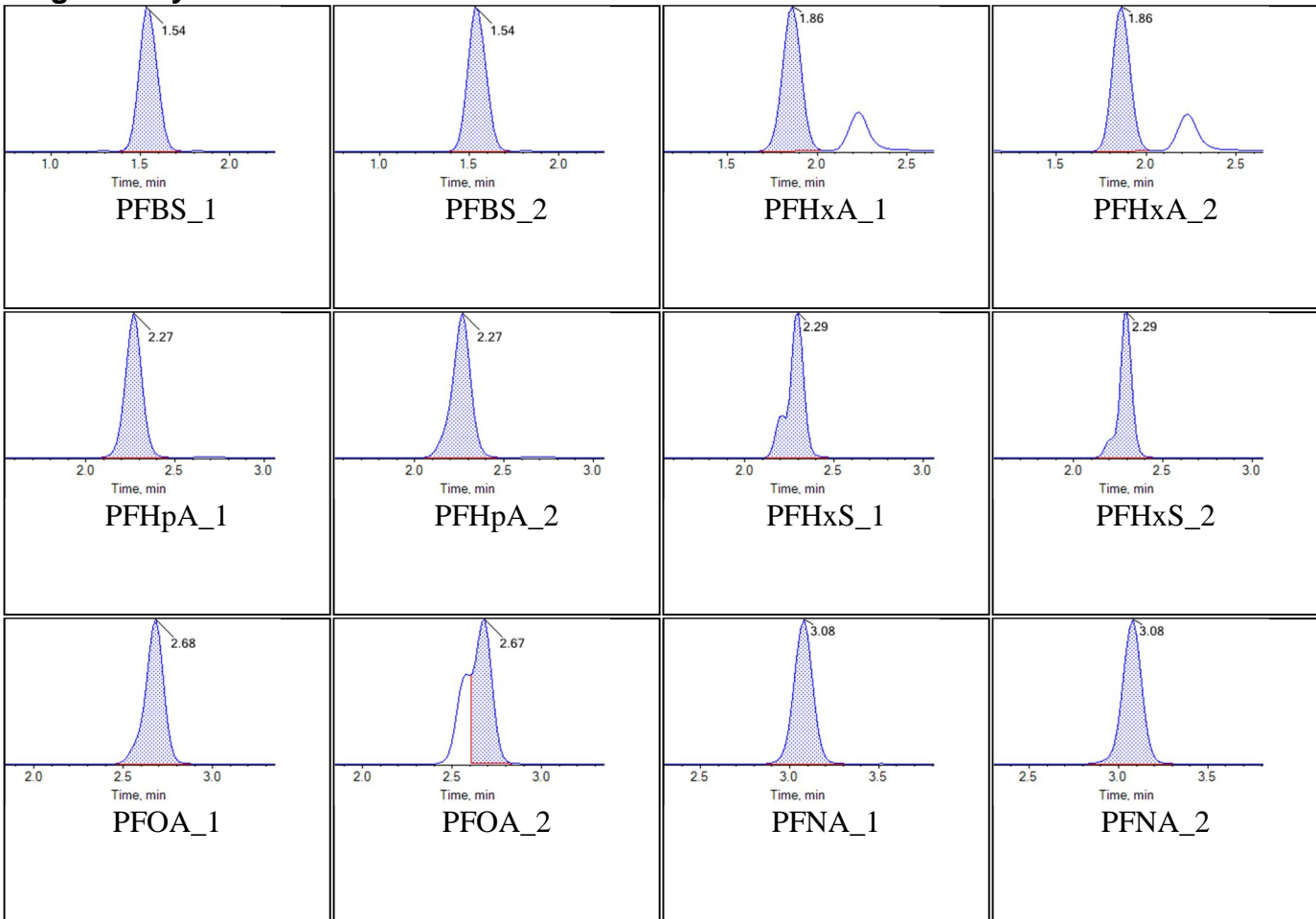
Internal Standards:



<b>Sample Name</b>	J8463MS-FS(0)	<b>Injection Vial</b>	4
<b>Sample ID</b>	VC-MS09-DW05-0918-MS	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:06:18	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

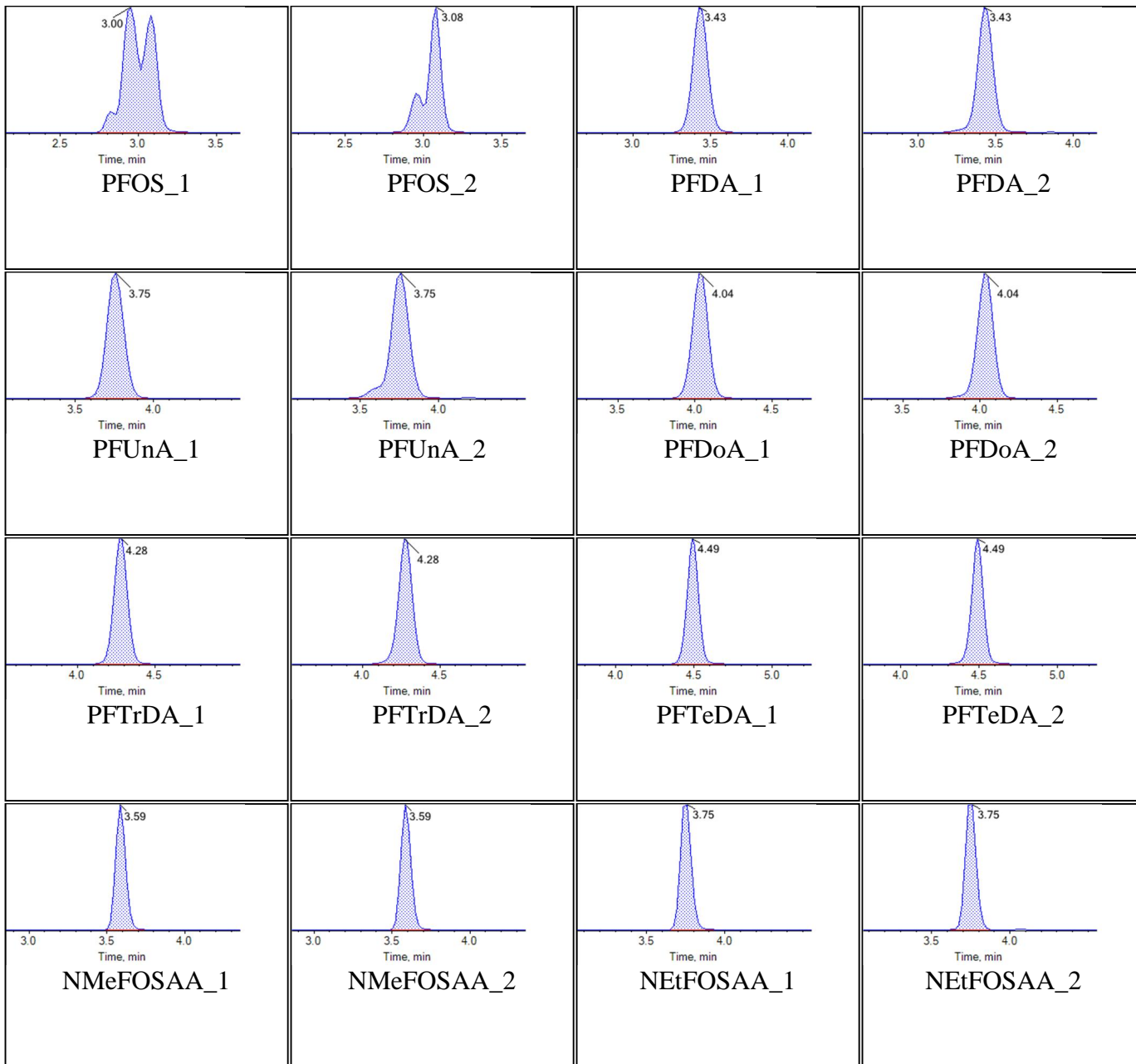
### Target Analytes:



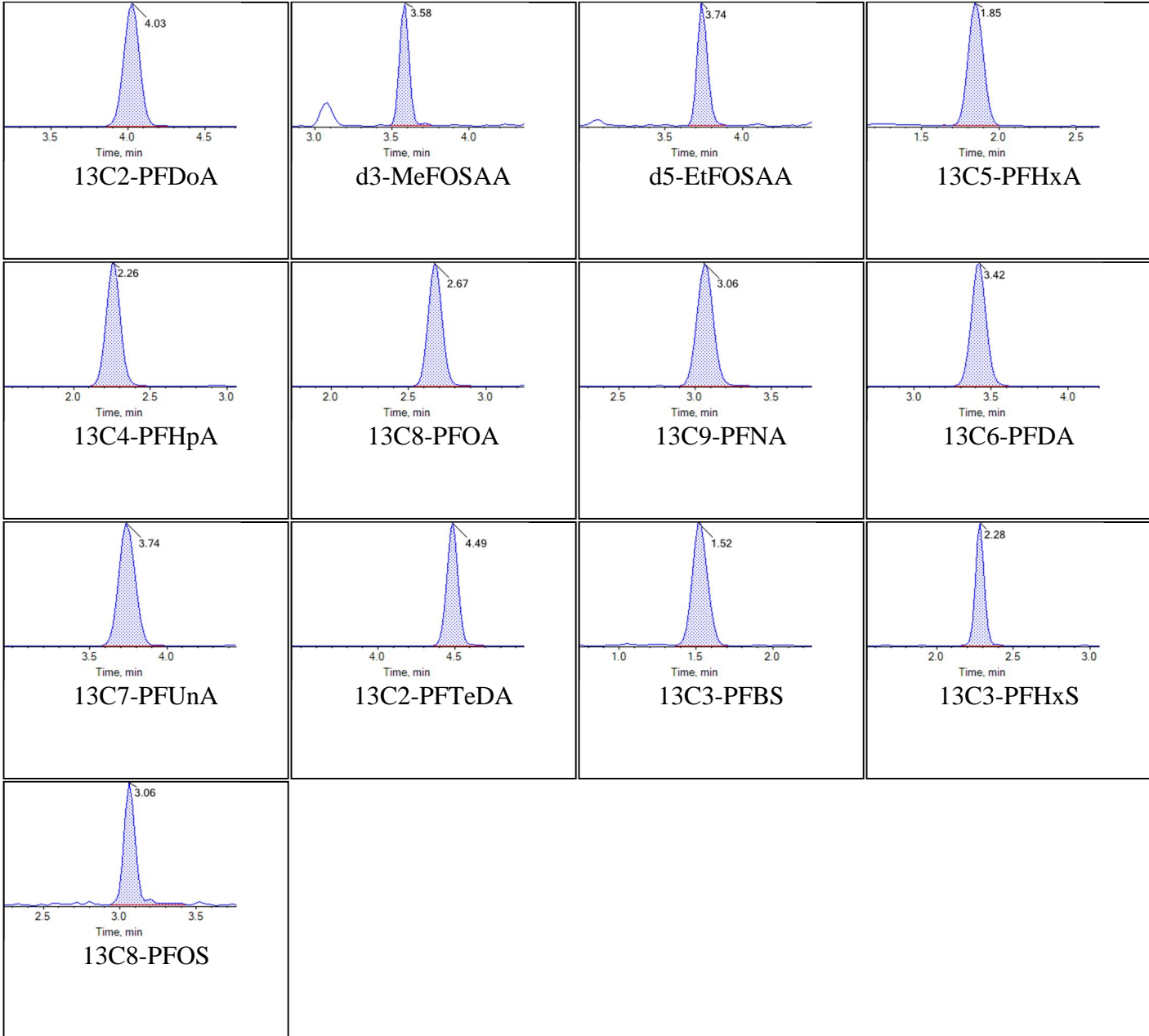


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Internal Standards:

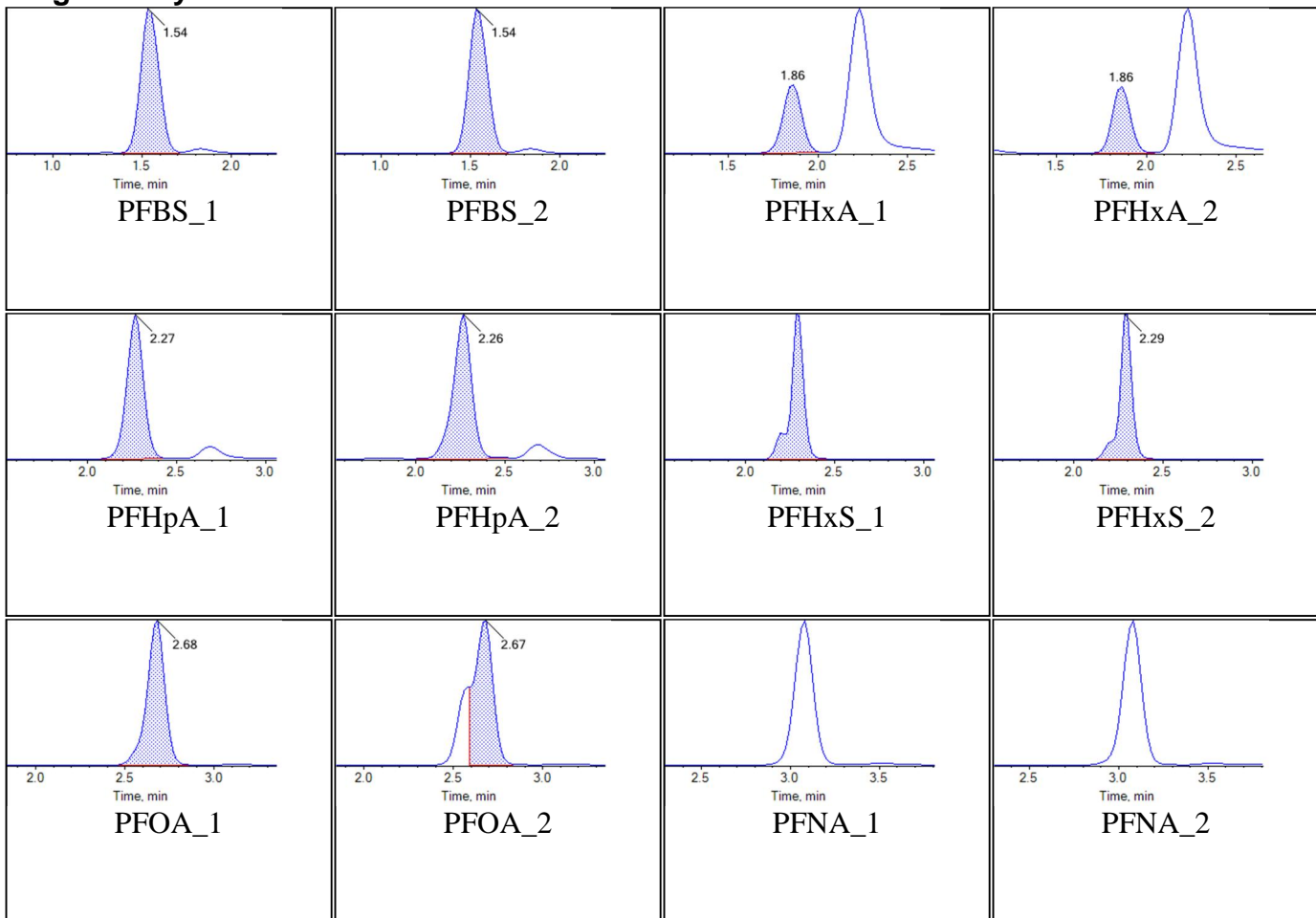


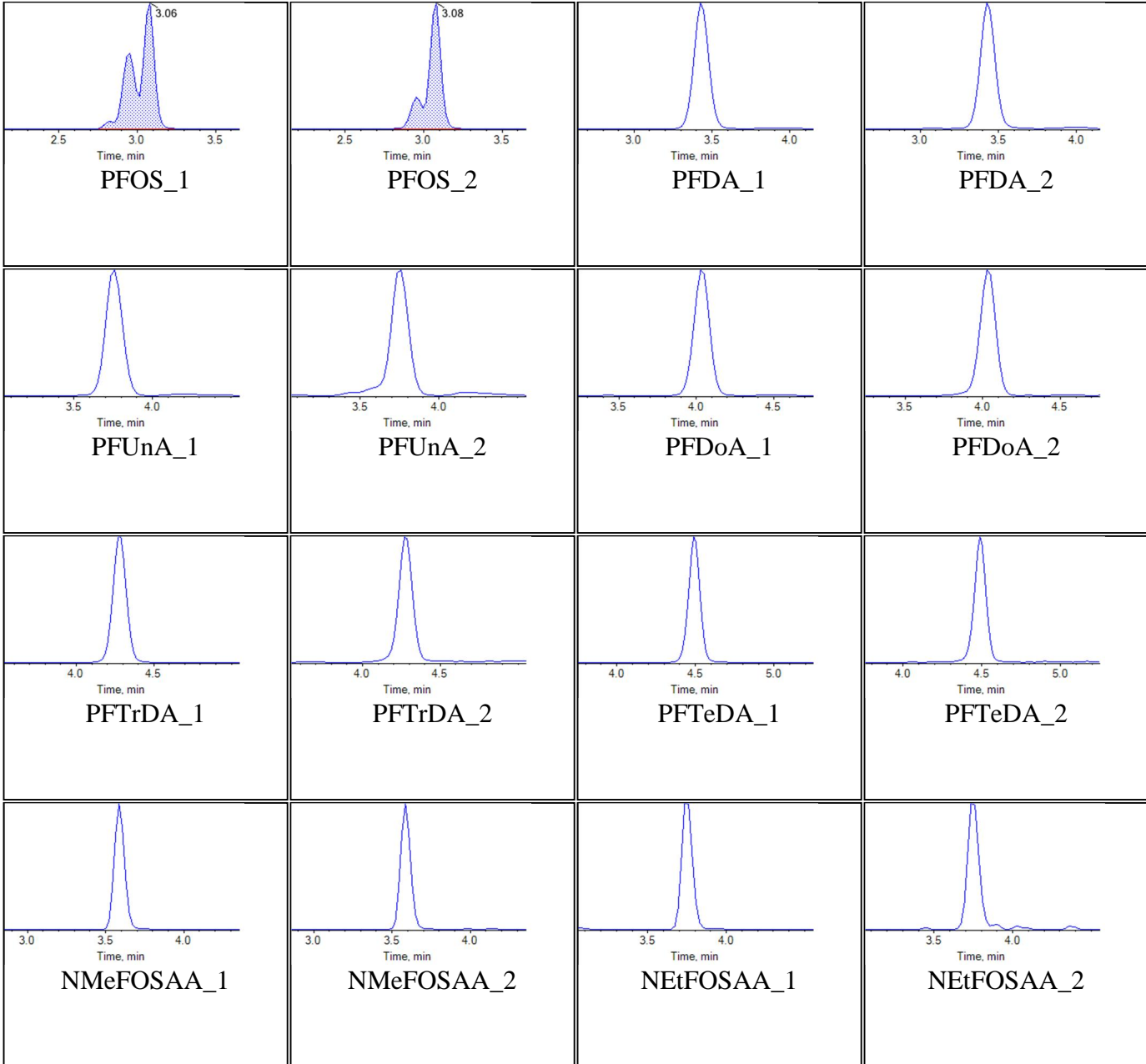


<b>Sample Name</b>	J8463MS-FS-D(3)	<b>Injection Vial</b>	5
<b>Sample ID</b>	VC-MS09-DW05-0918-MS	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:17:11	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

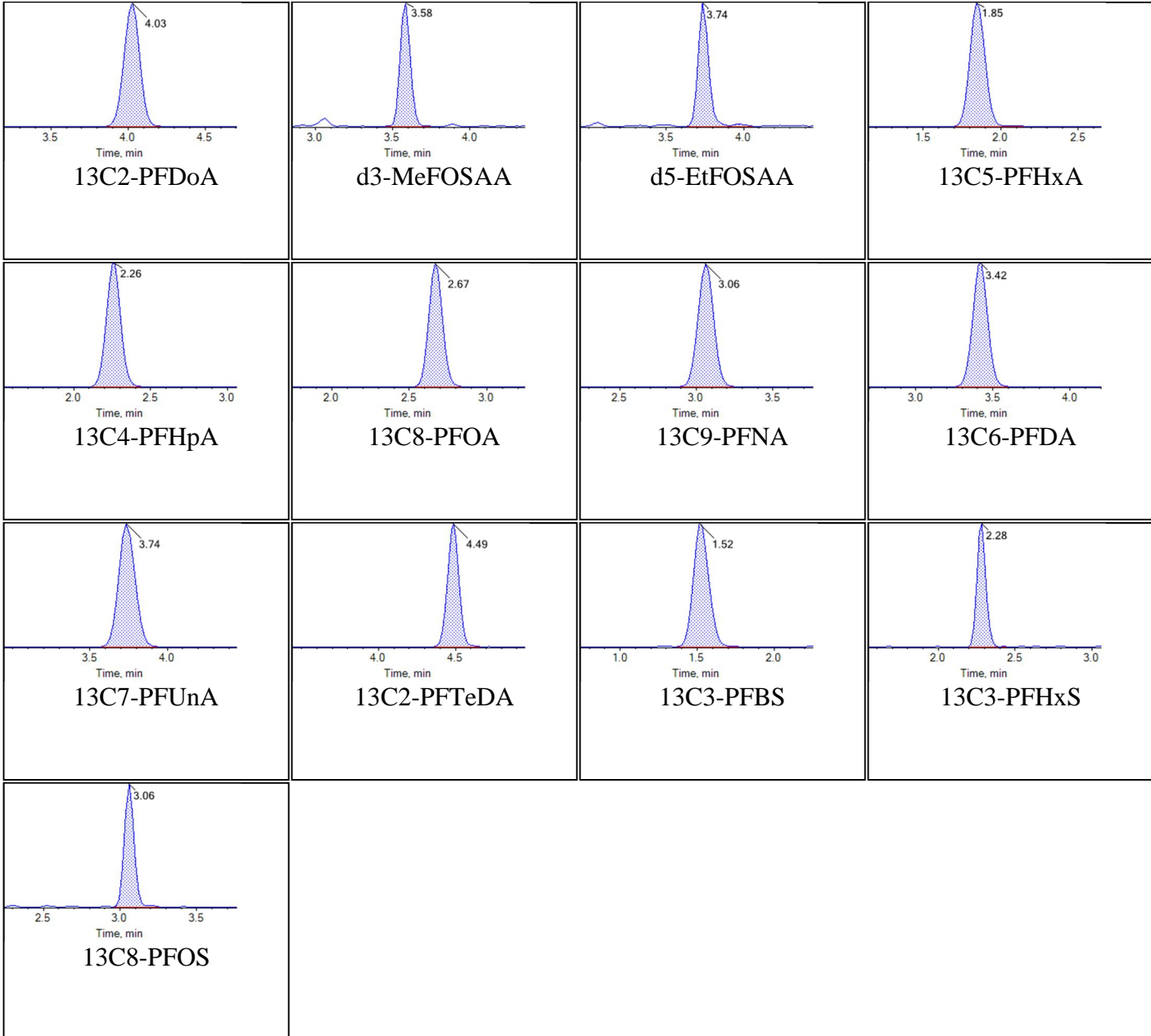
## Chromatograms

### Target Analytes:





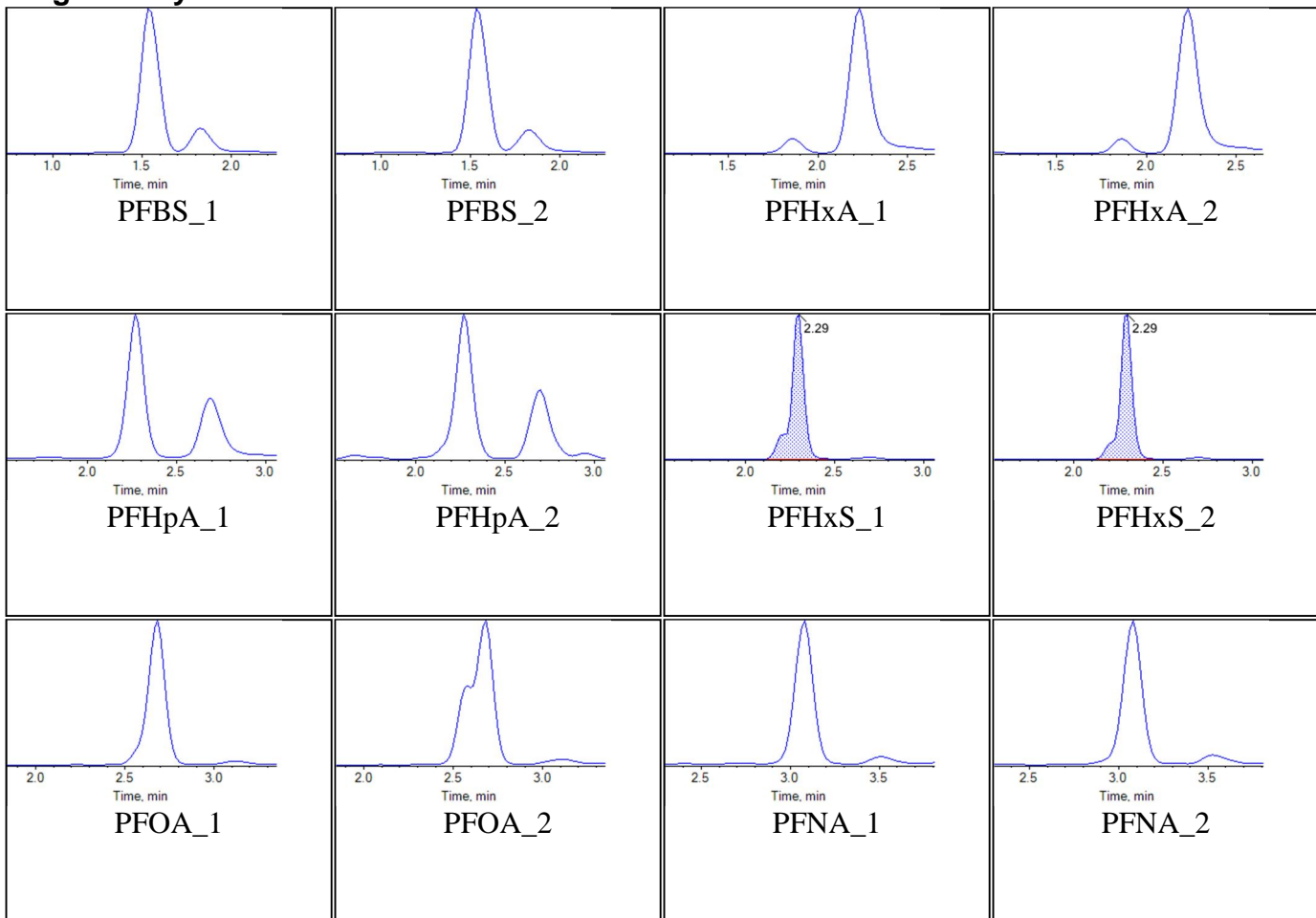
Internal Standards:

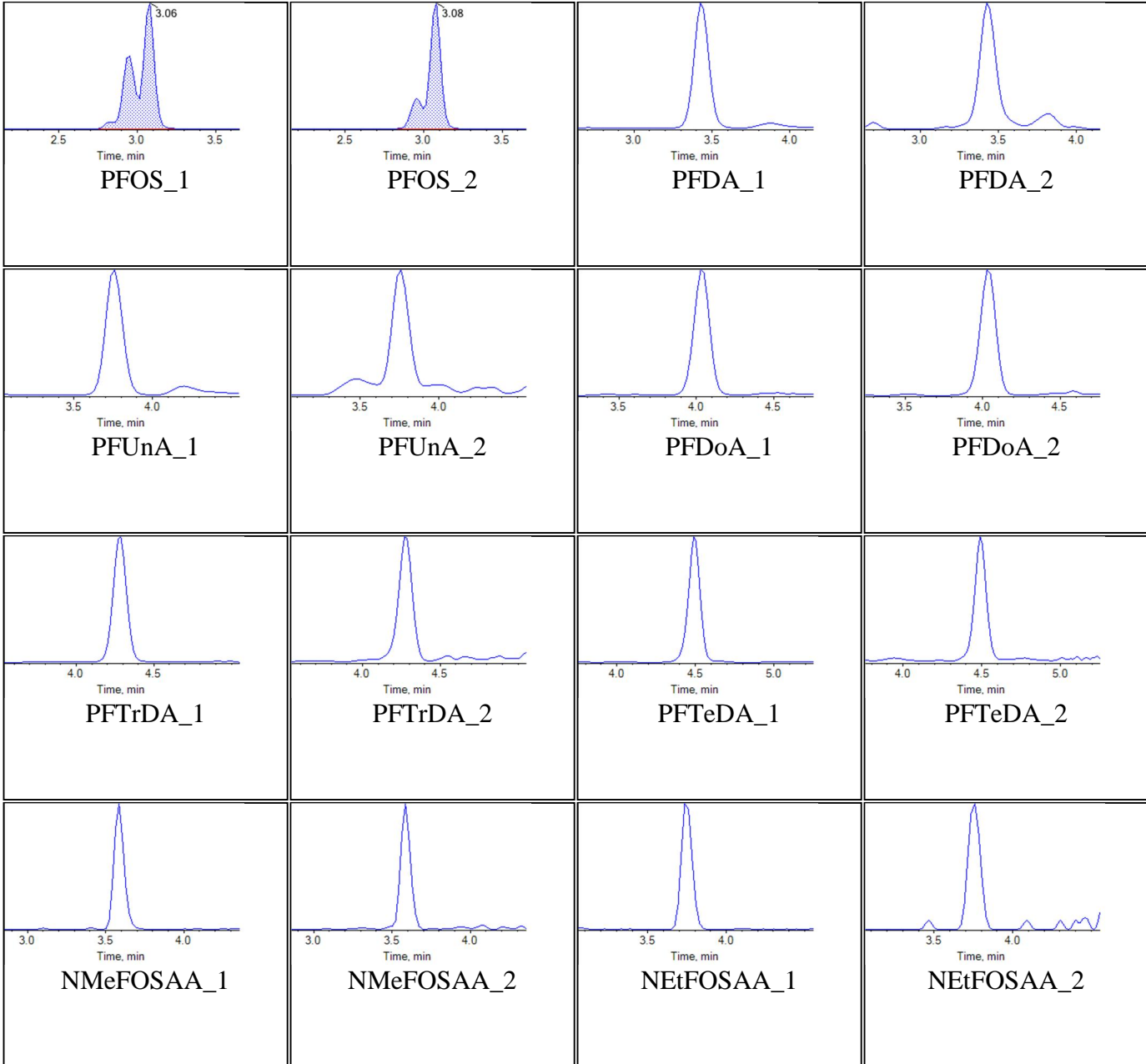


<b>Sample Name</b>	J8463MS-FS-D(5)	<b>Injection Vial</b>	6
<b>Sample ID</b>	VC-MS09-DW05-0918-MS	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:28:05	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

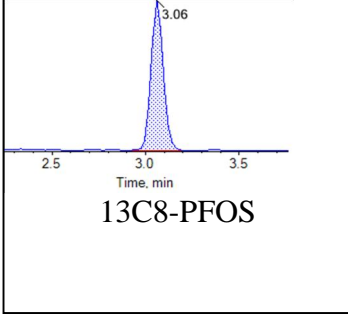
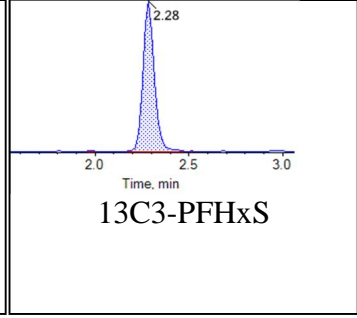
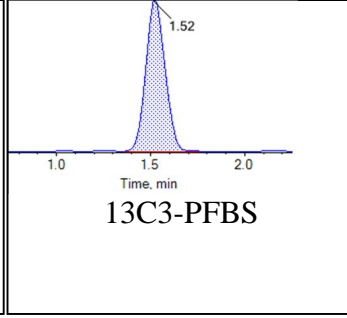
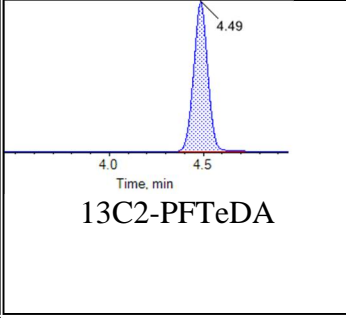
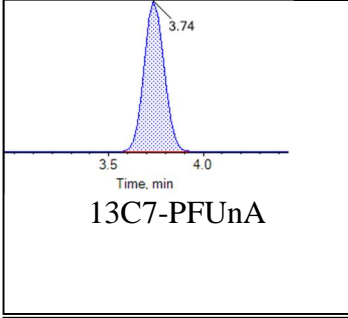
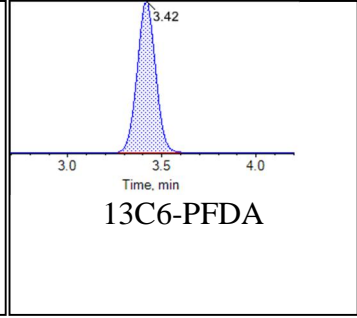
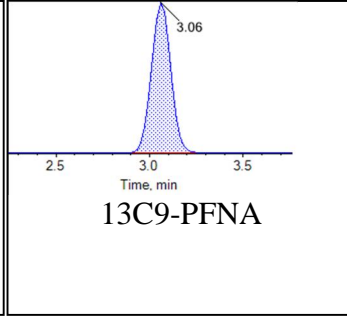
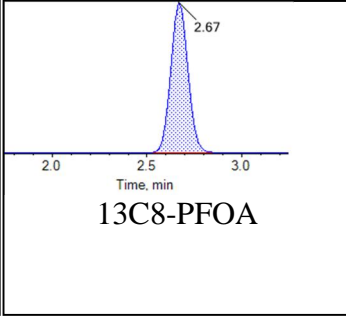
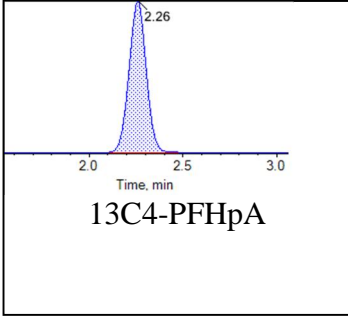
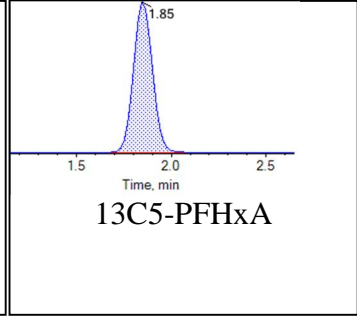
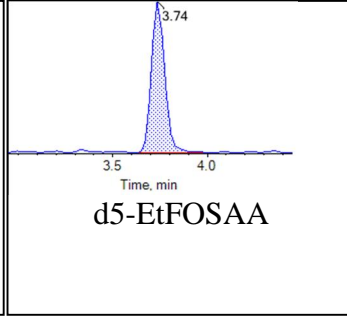
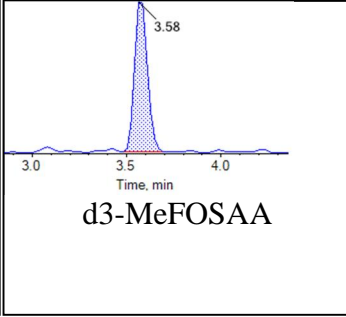
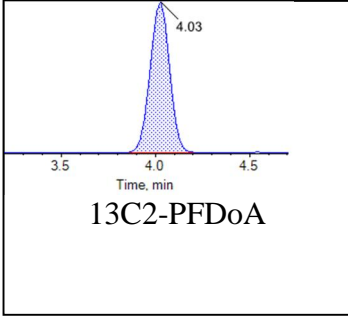
### Chromatograms

#### Target Analytes:





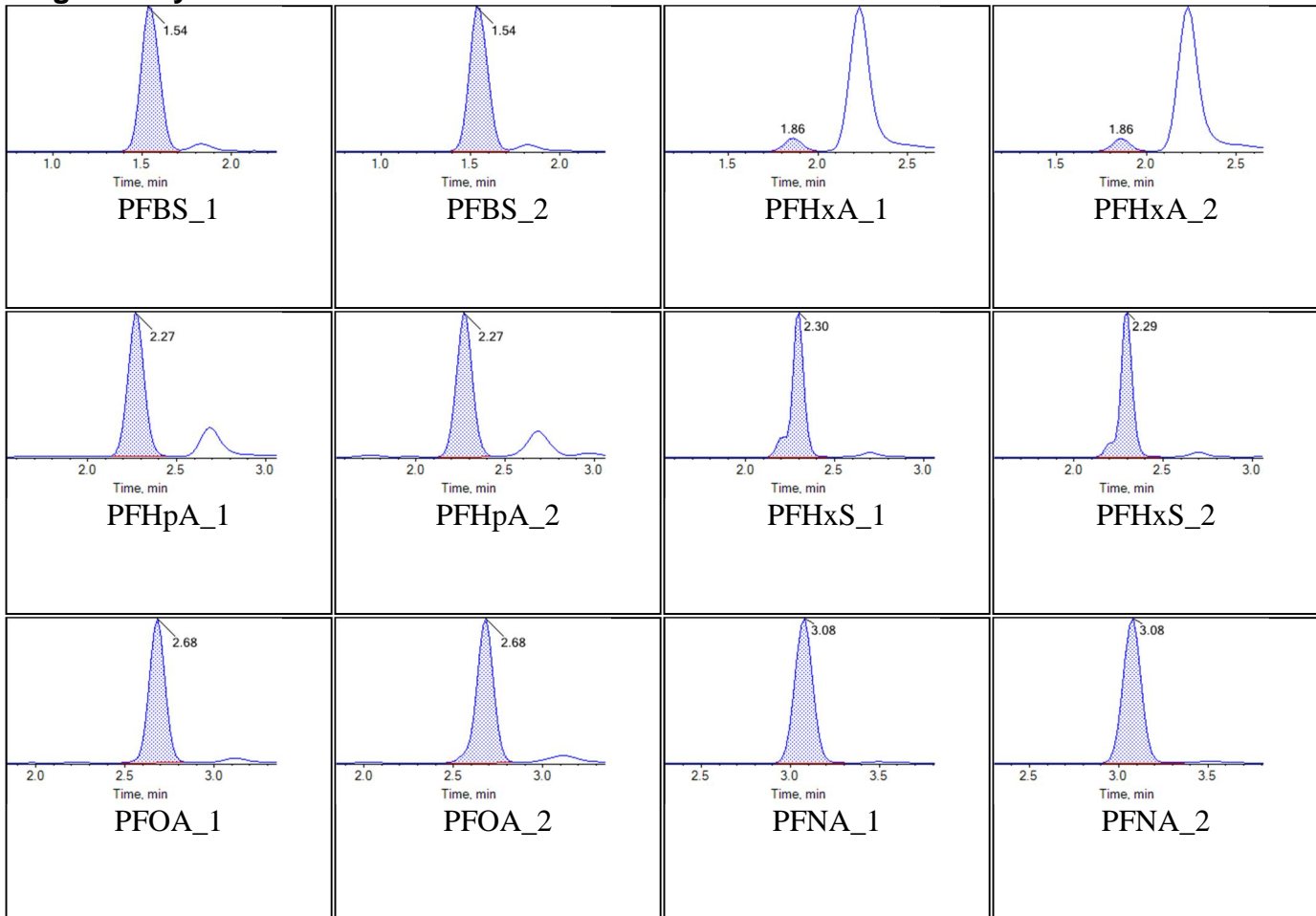
Internal Standards:



<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	7
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:38:59	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

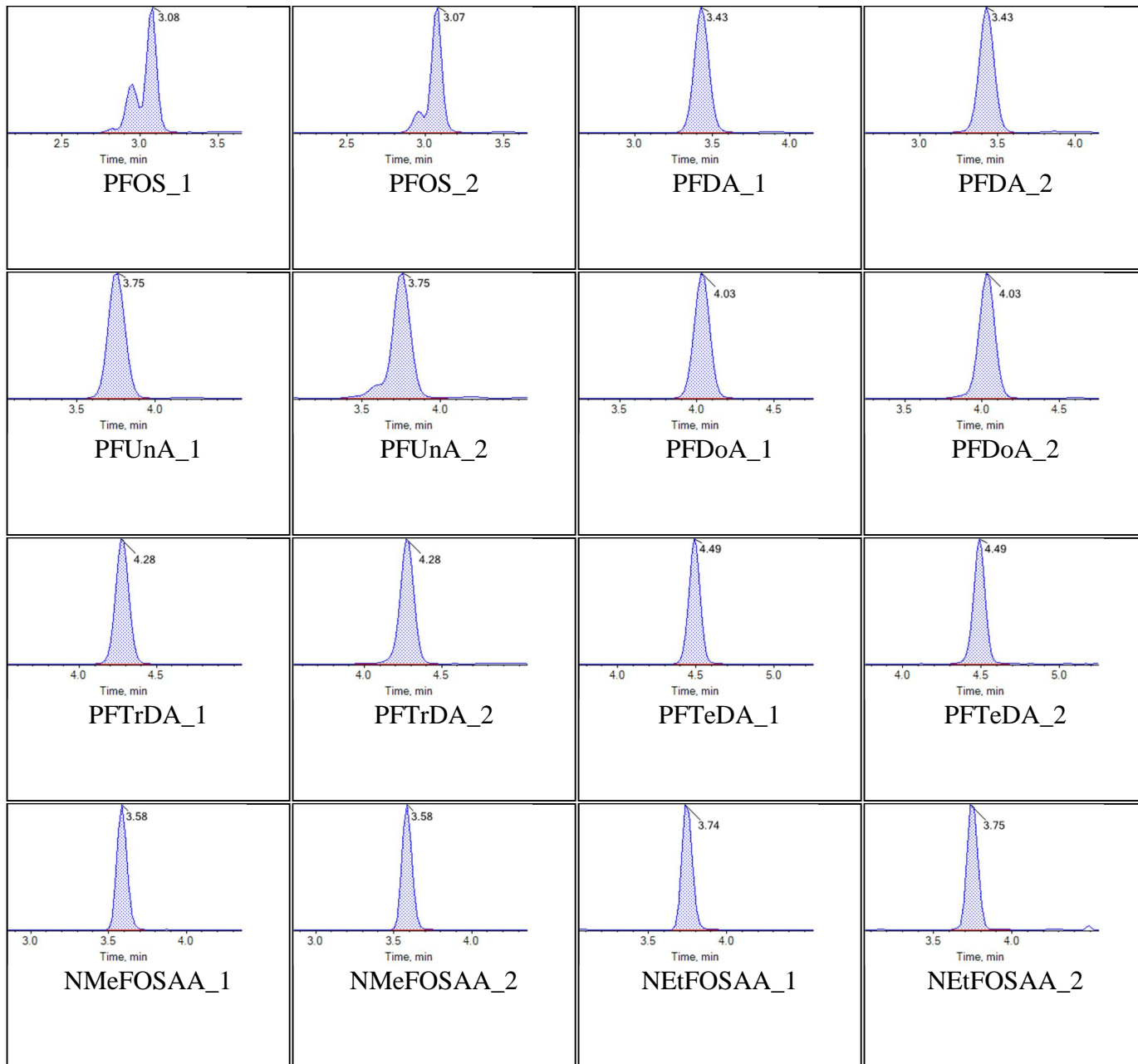
### Target Analytes:





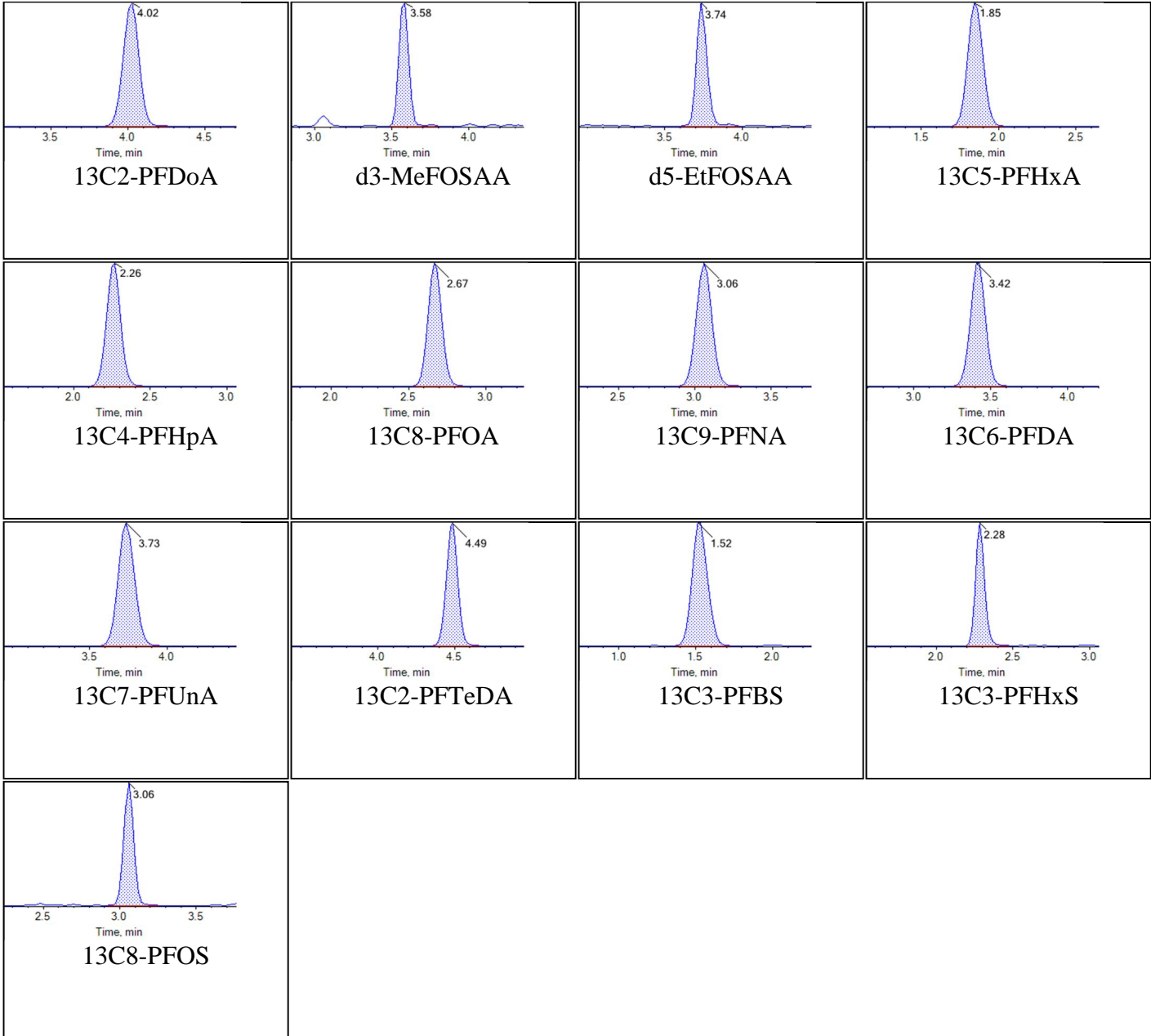
Chromatogram Report

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Internal Standards:

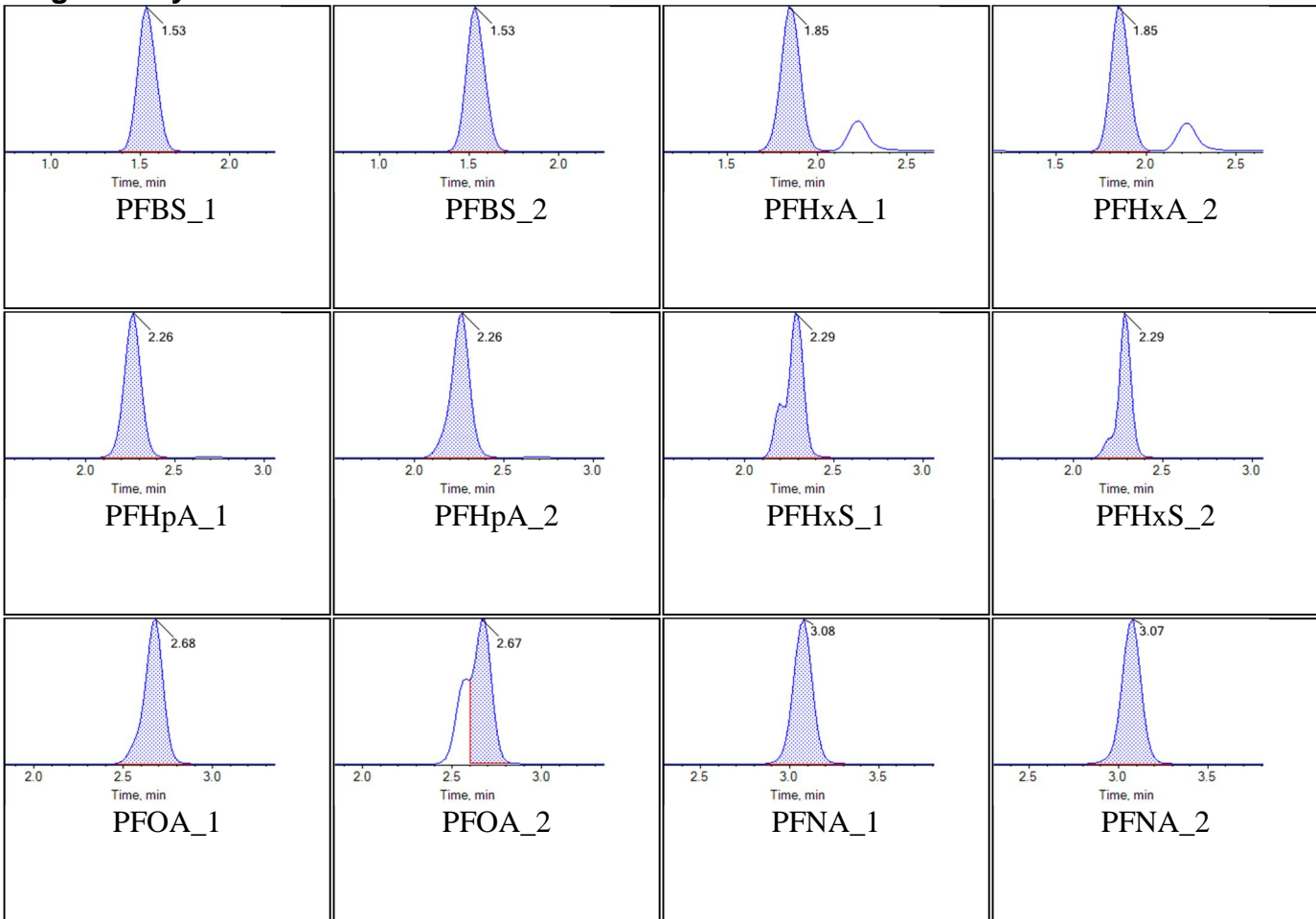




<b>Sample Name</b>	J8464MSD-FS(0)	<b>Injection Vial</b>	9
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:00:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

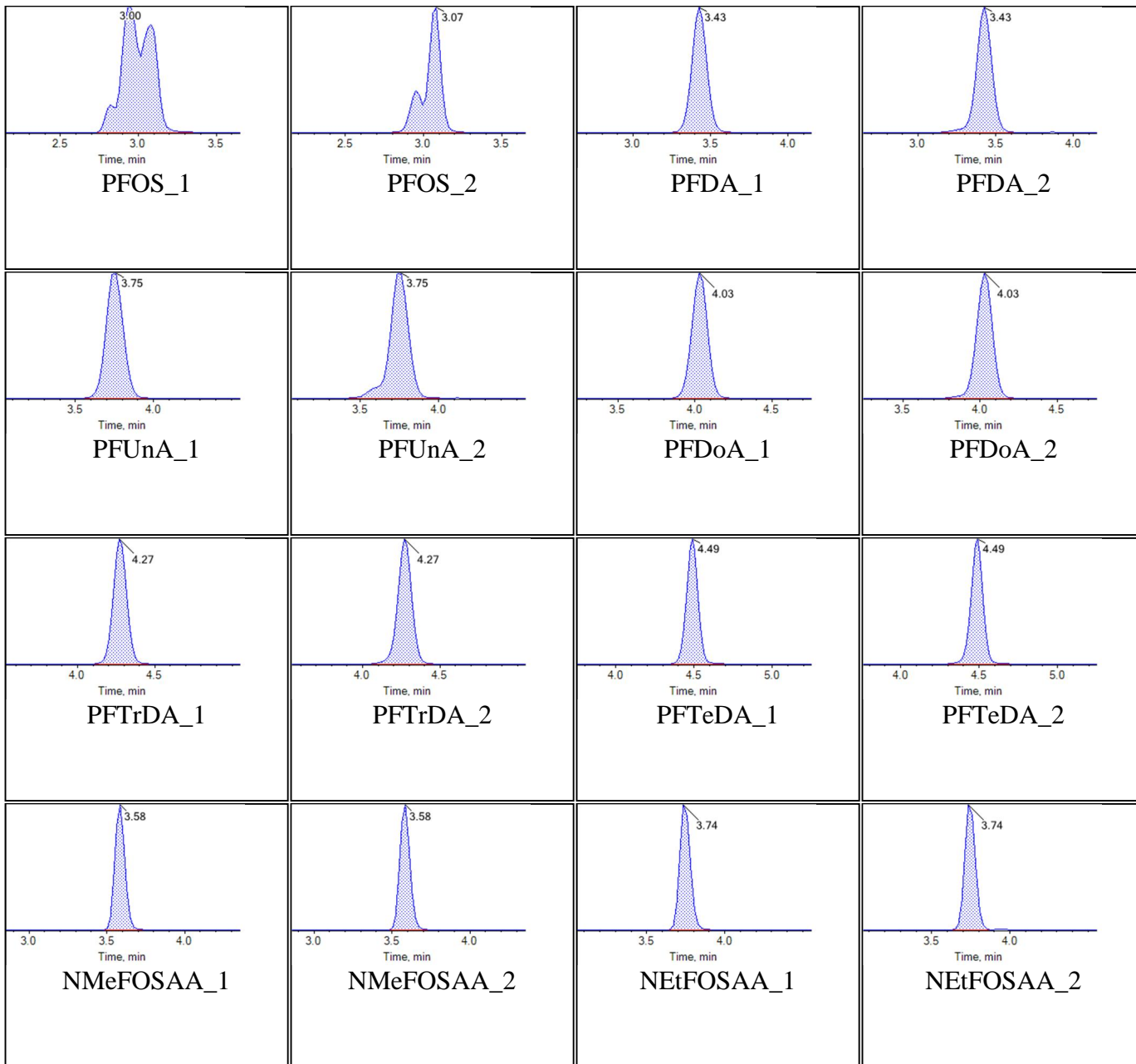
### Target Analytes:



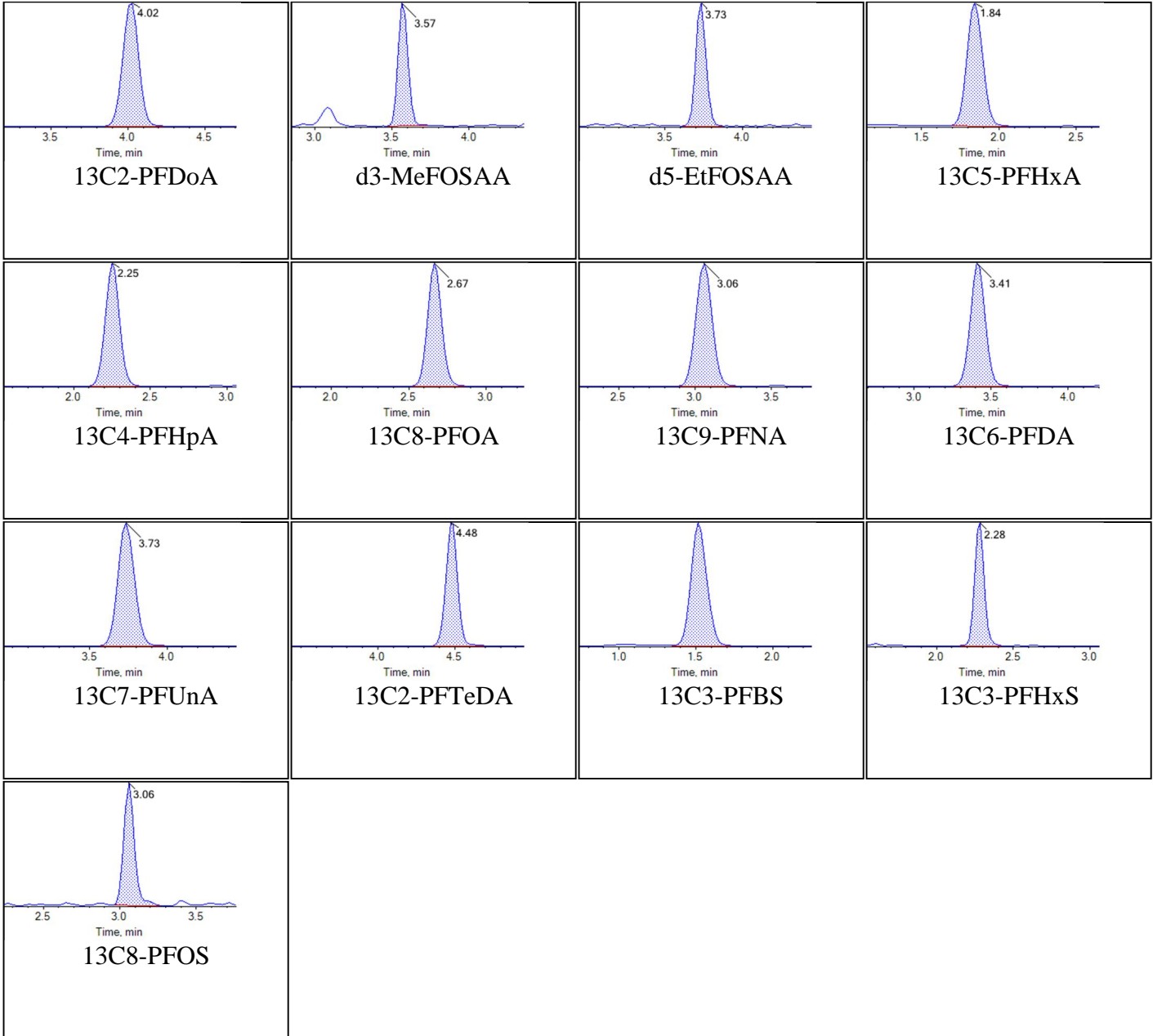


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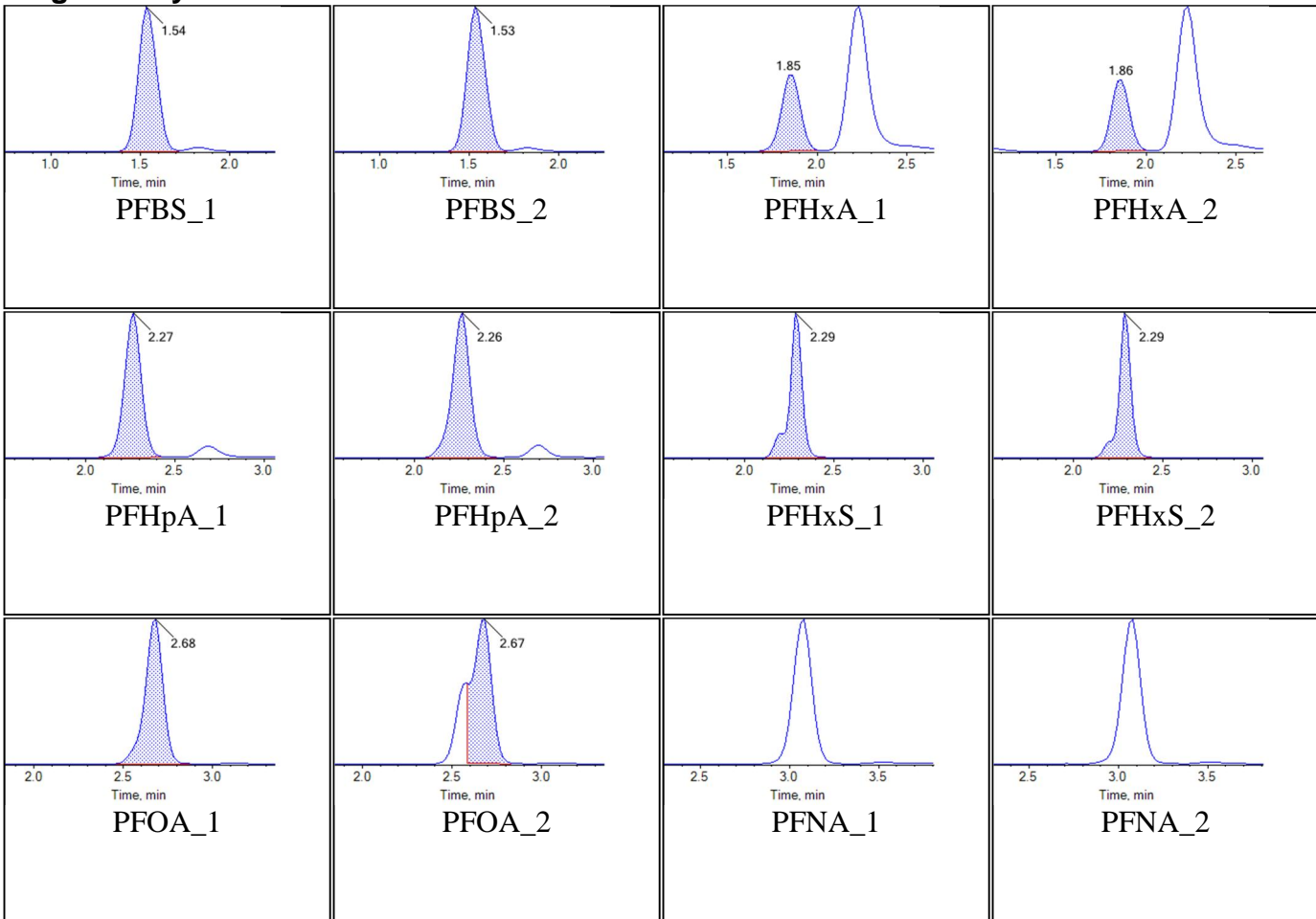
Internal Standards:



<b>Sample Name</b>	J8464MSD-FS-D(3)	<b>Injection Vial</b>	10
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:11:37	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

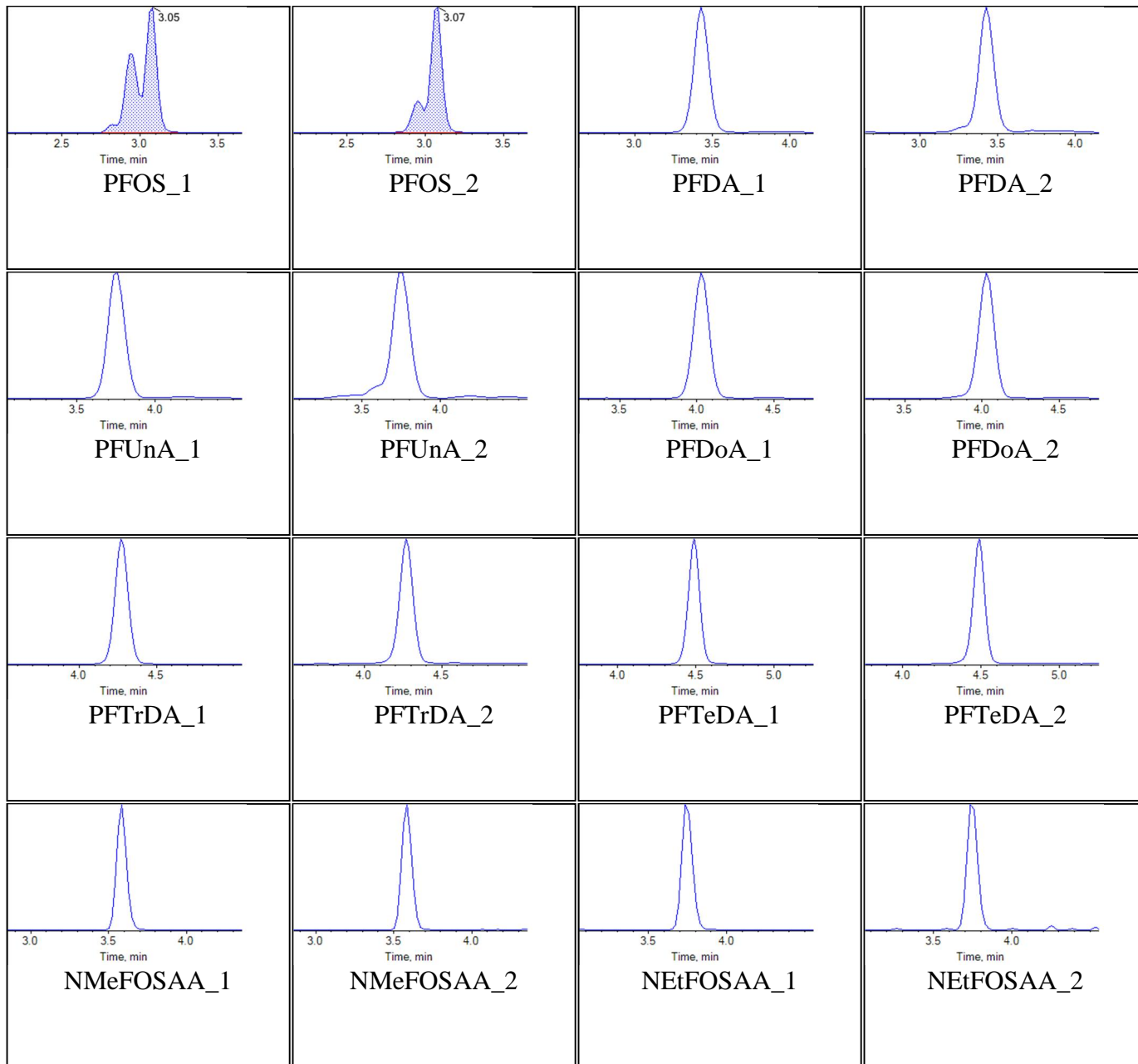
### Target Analytes:



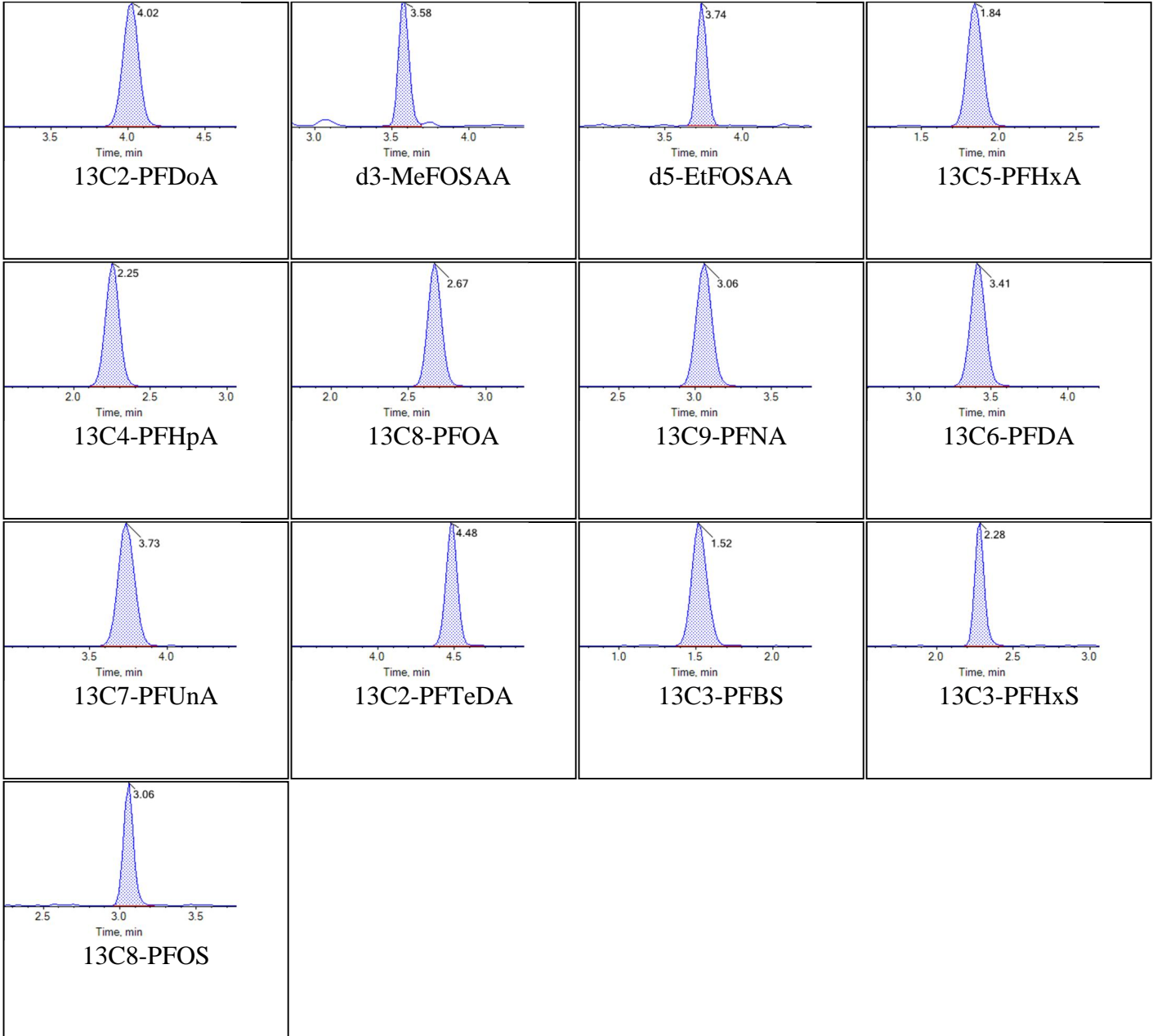


Chromatogram Report

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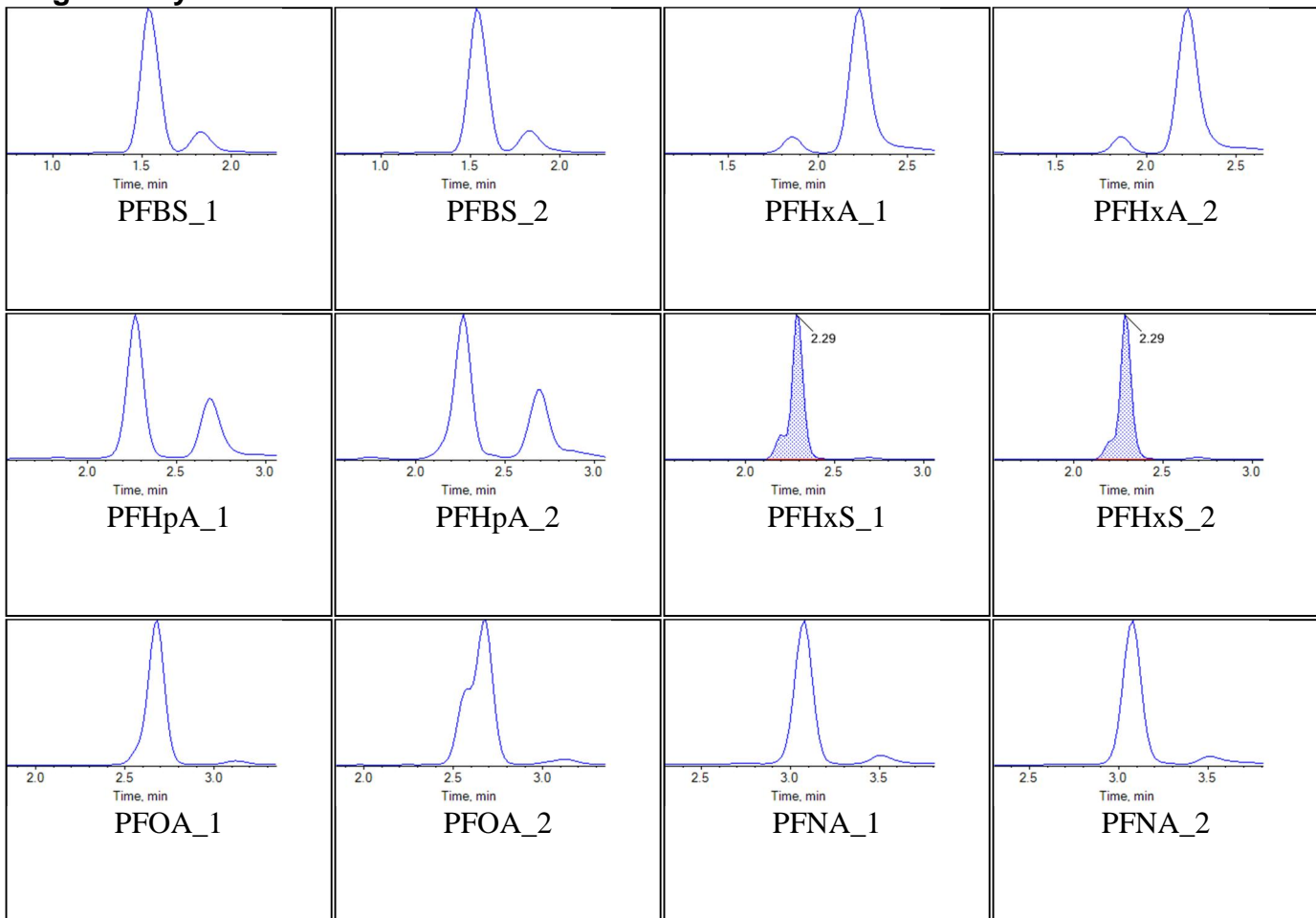
Internal Standards:



<b>Sample Name</b>	J8464MSD-FS-D(5)	<b>Injection Vial</b>	11
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:22:30	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Chromatograms

#### Target Analytes:

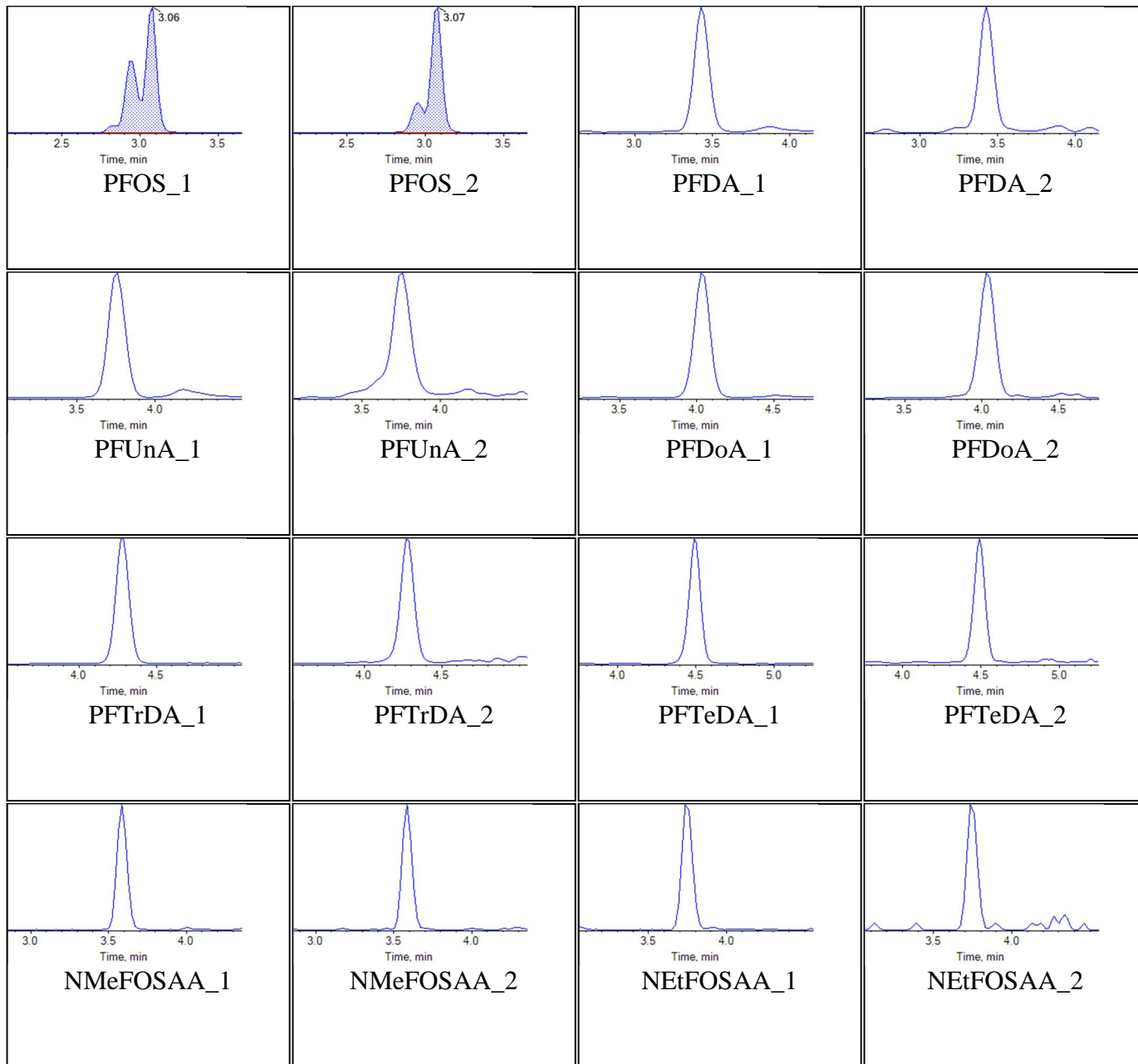




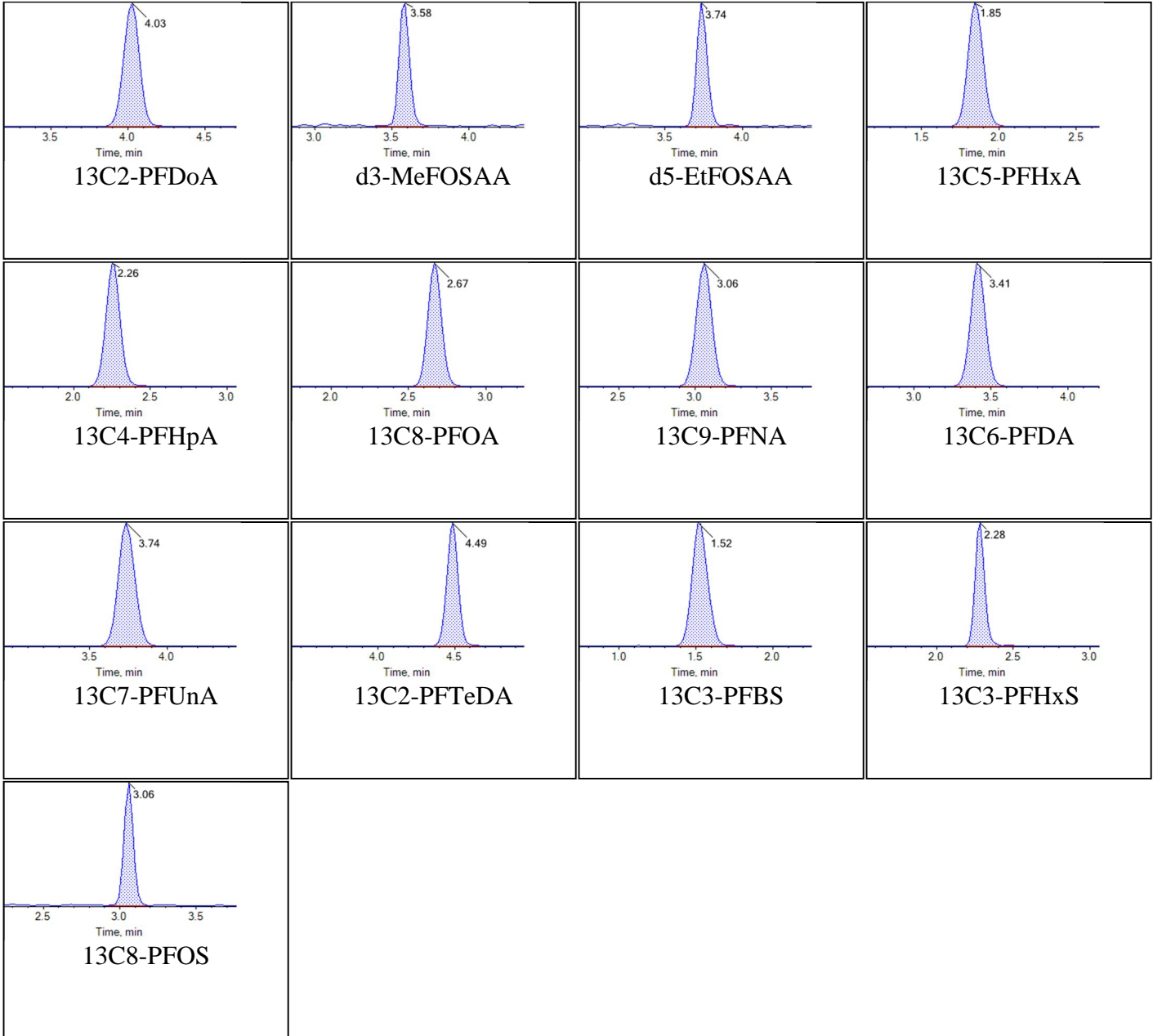


Chromatogram Report

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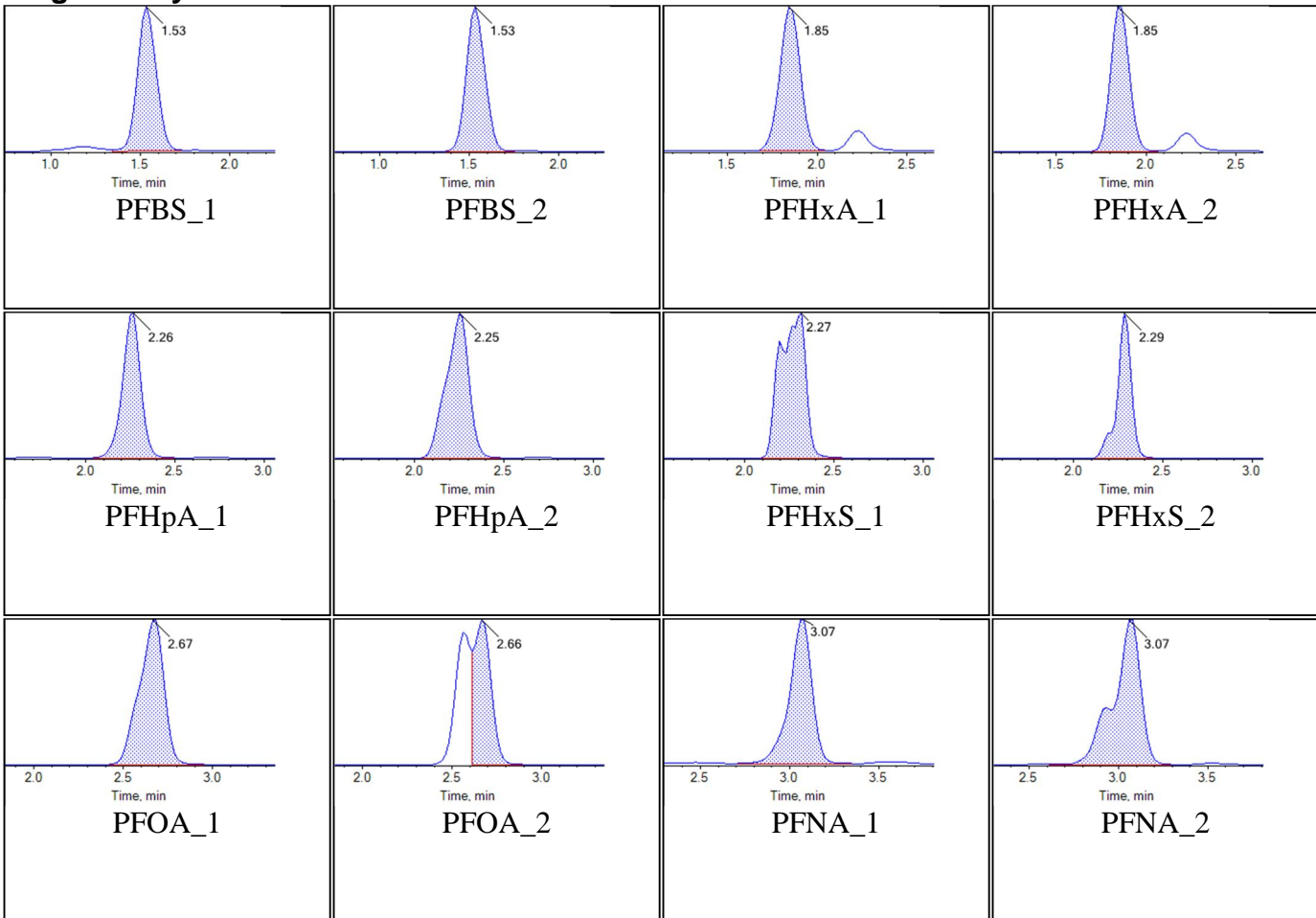
Internal Standards:



<b>Sample Name</b>	J8477-FS(0)	<b>Injection Vial</b>	12
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:33:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

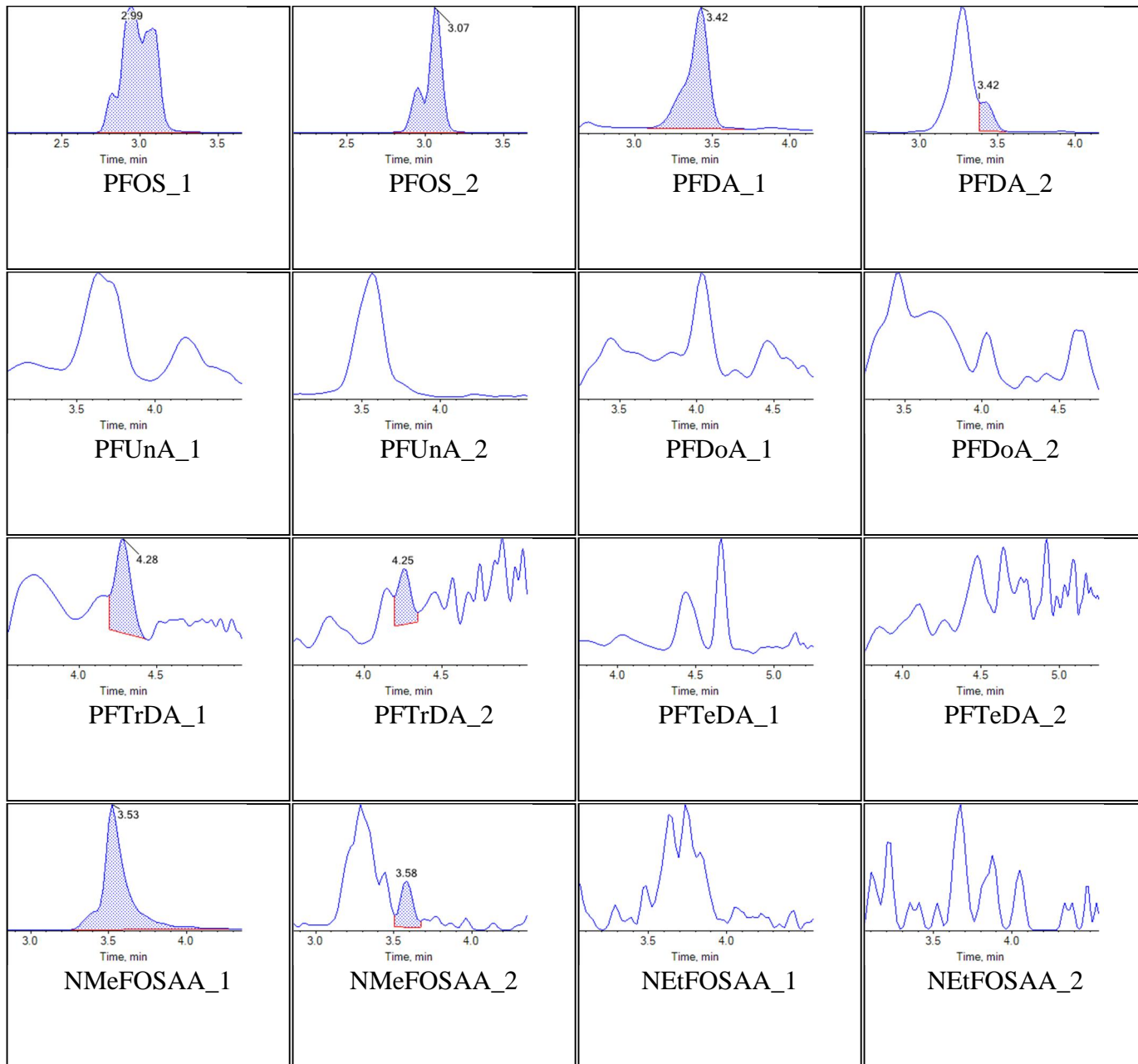
### Target Analytes:



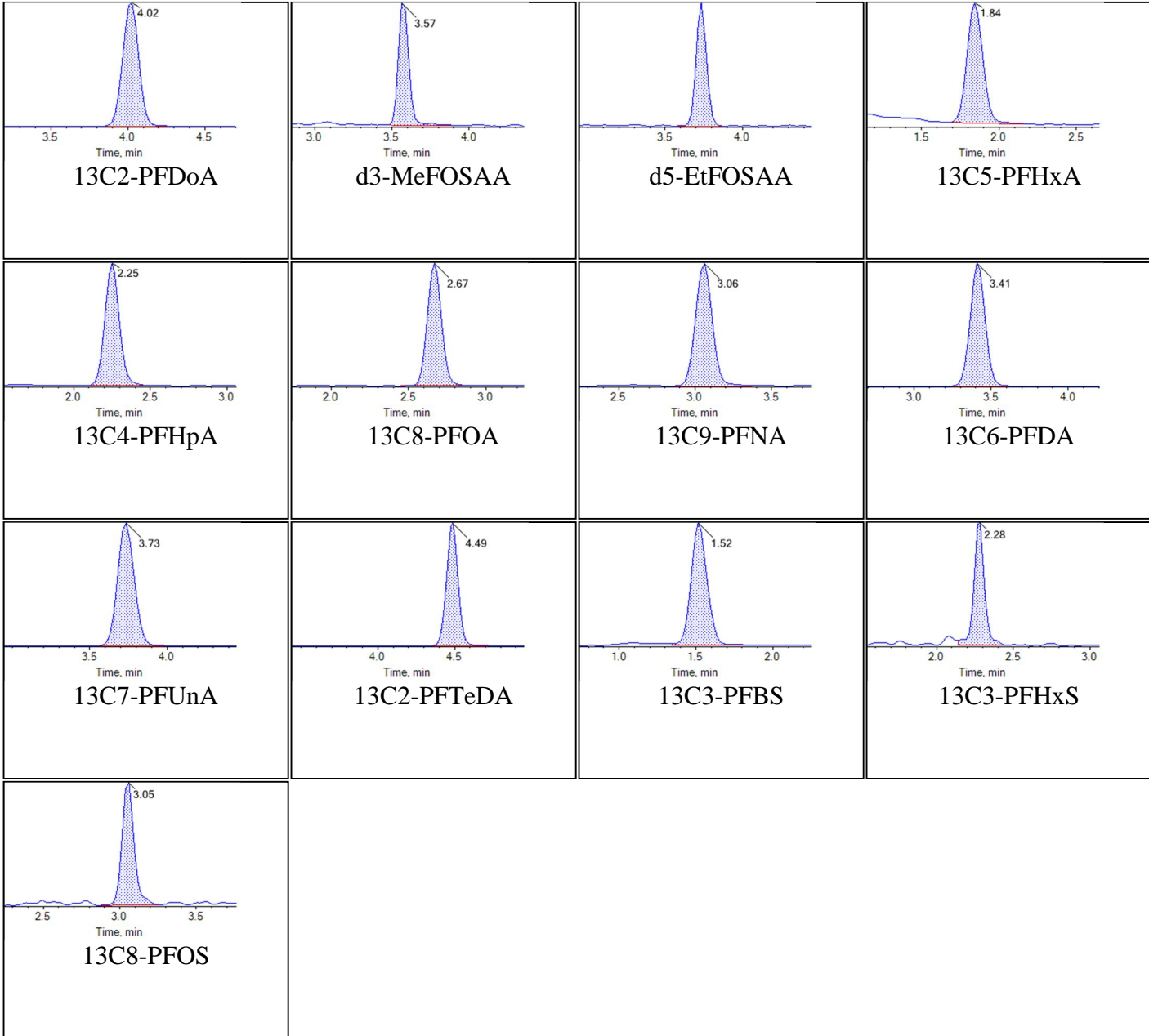


Chromatogram Report

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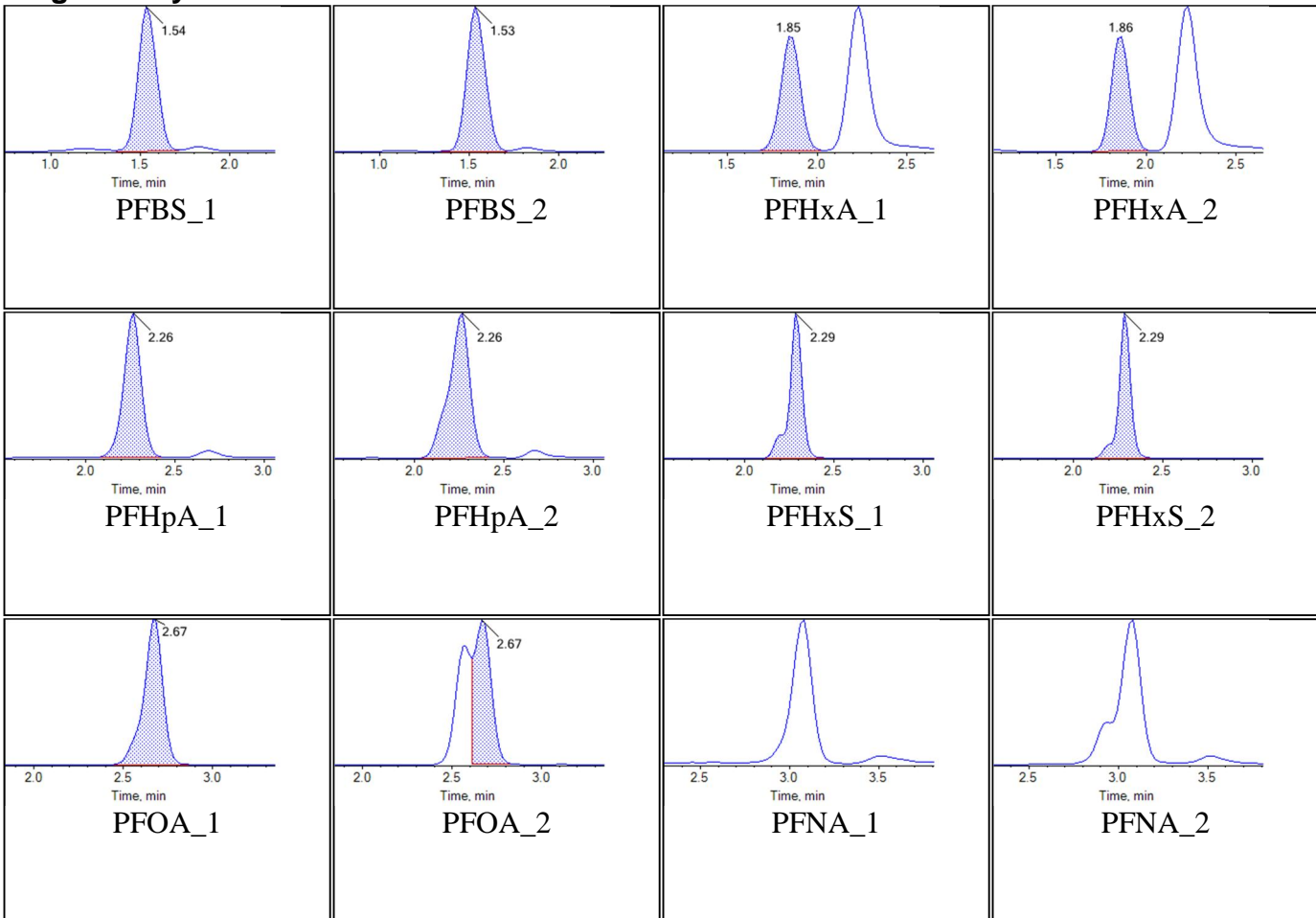
Internal Standards:



<b>Sample Name</b>	J8477-FS-D(3)	<b>Injection Vial</b>	13
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:44:17	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

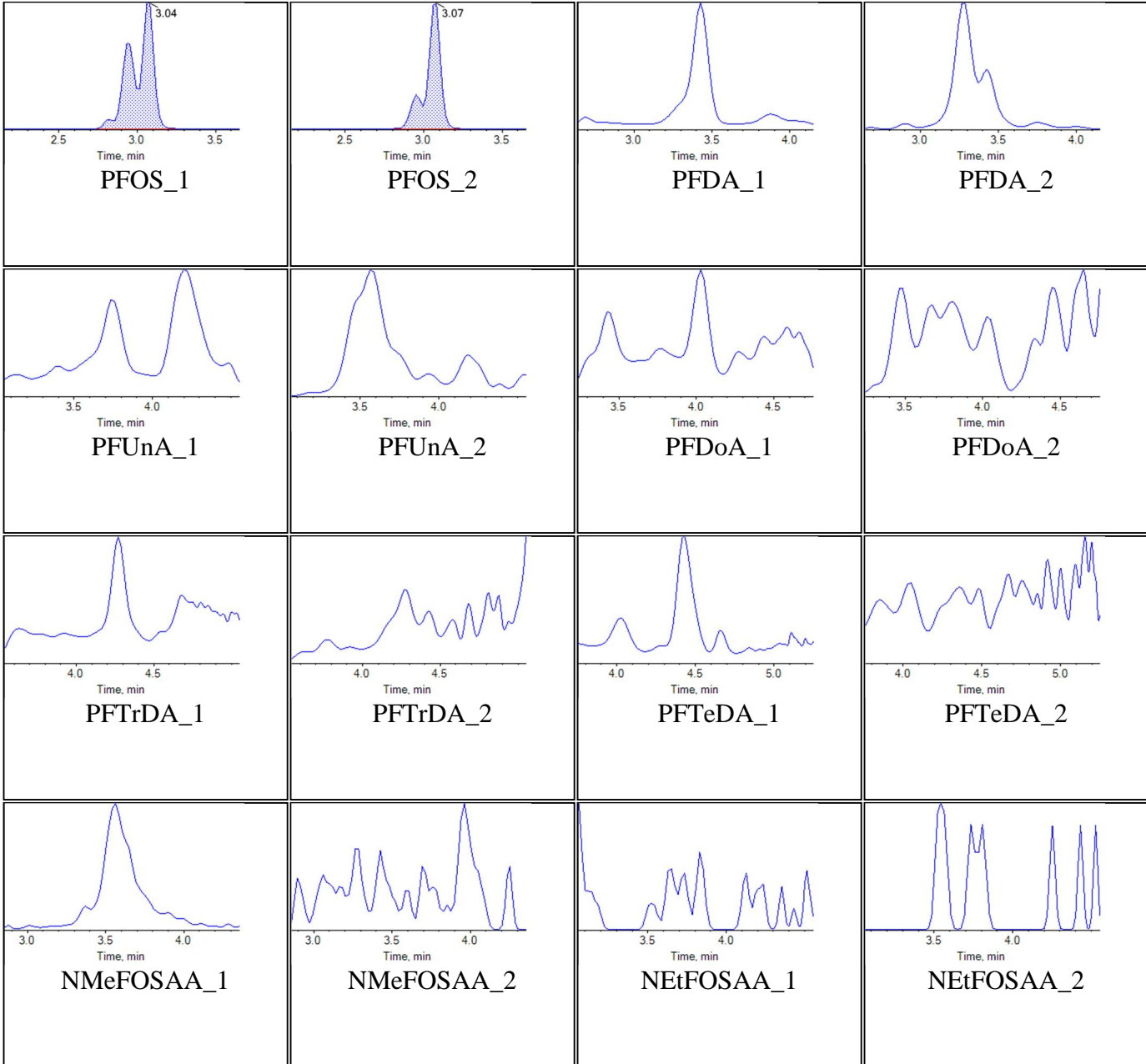
### Target Analytes:



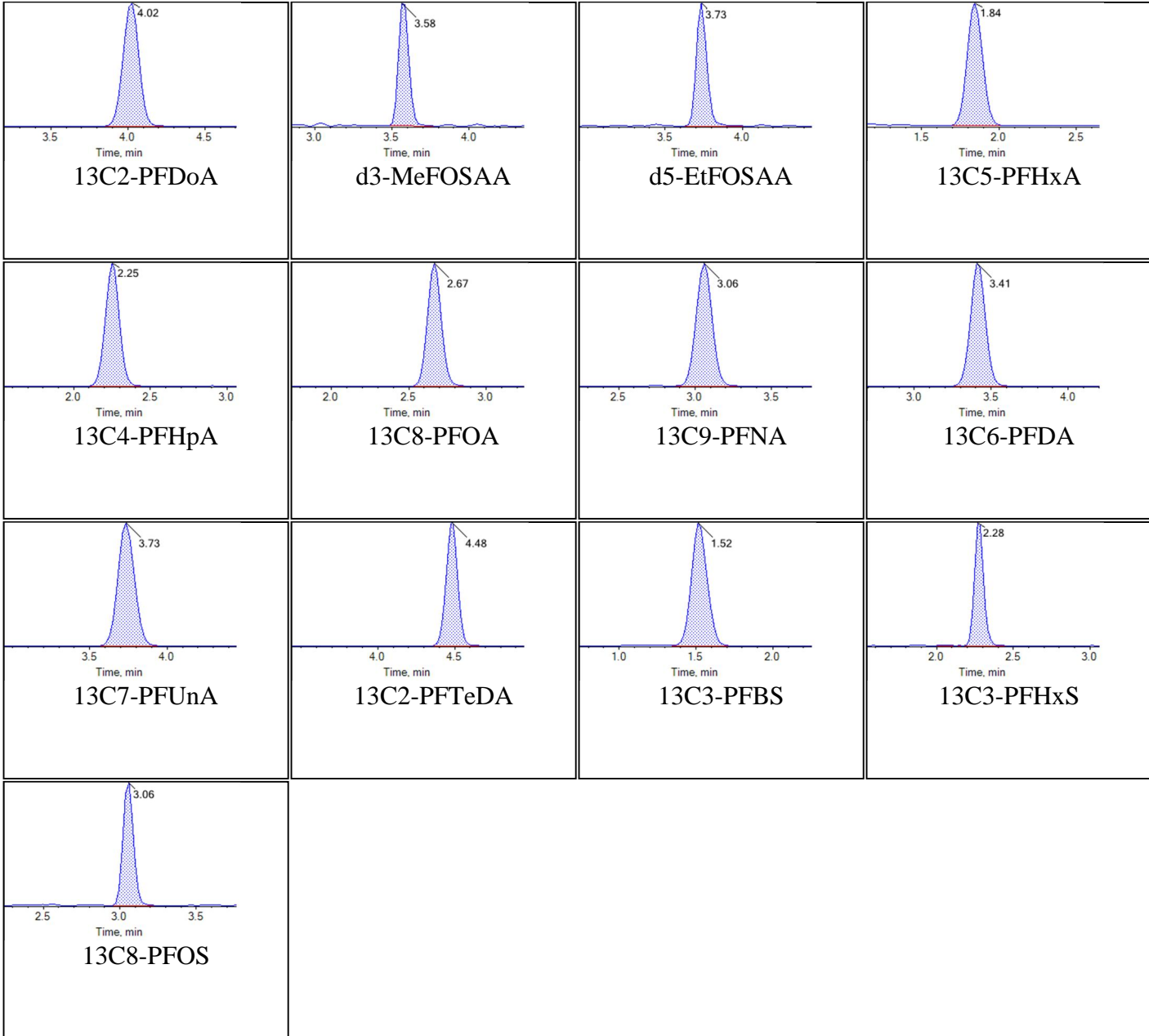


Chromatogram Report

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Internal Standards:

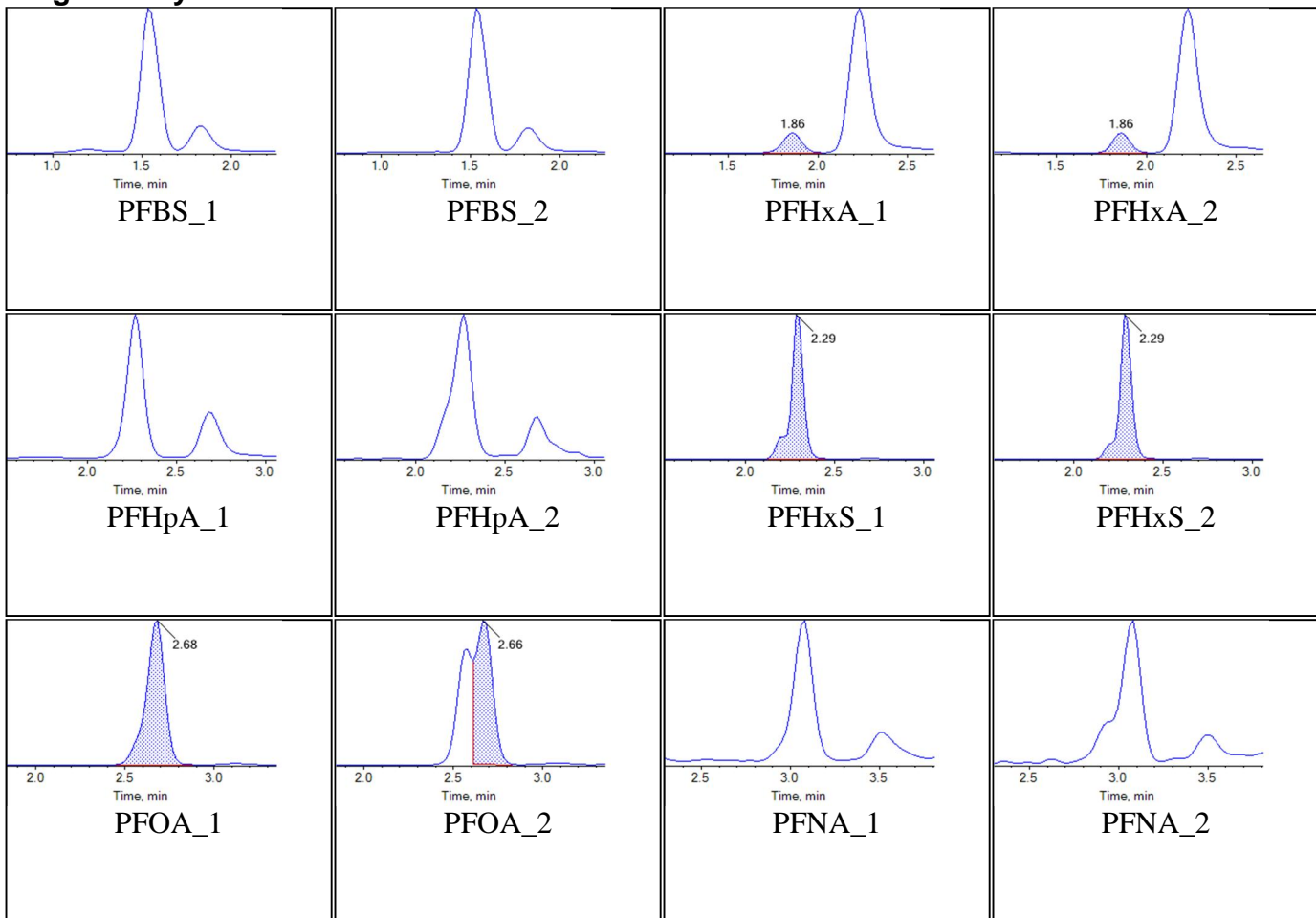




<b>Sample Name</b>	J8477-FS-D(5)	<b>Injection Vial</b>	14
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:55:10	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

### Chromatograms

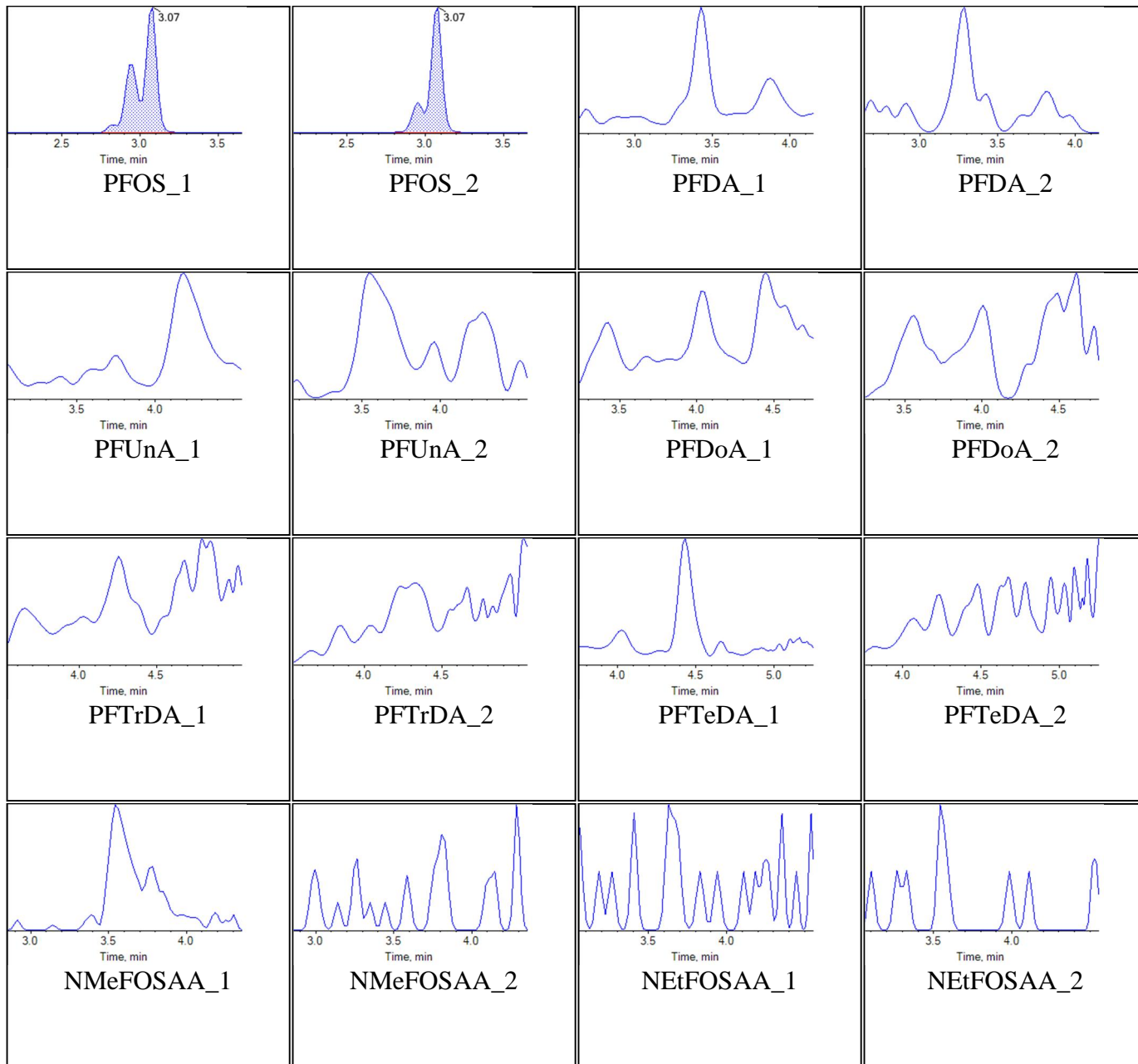
#### Target Analytes:



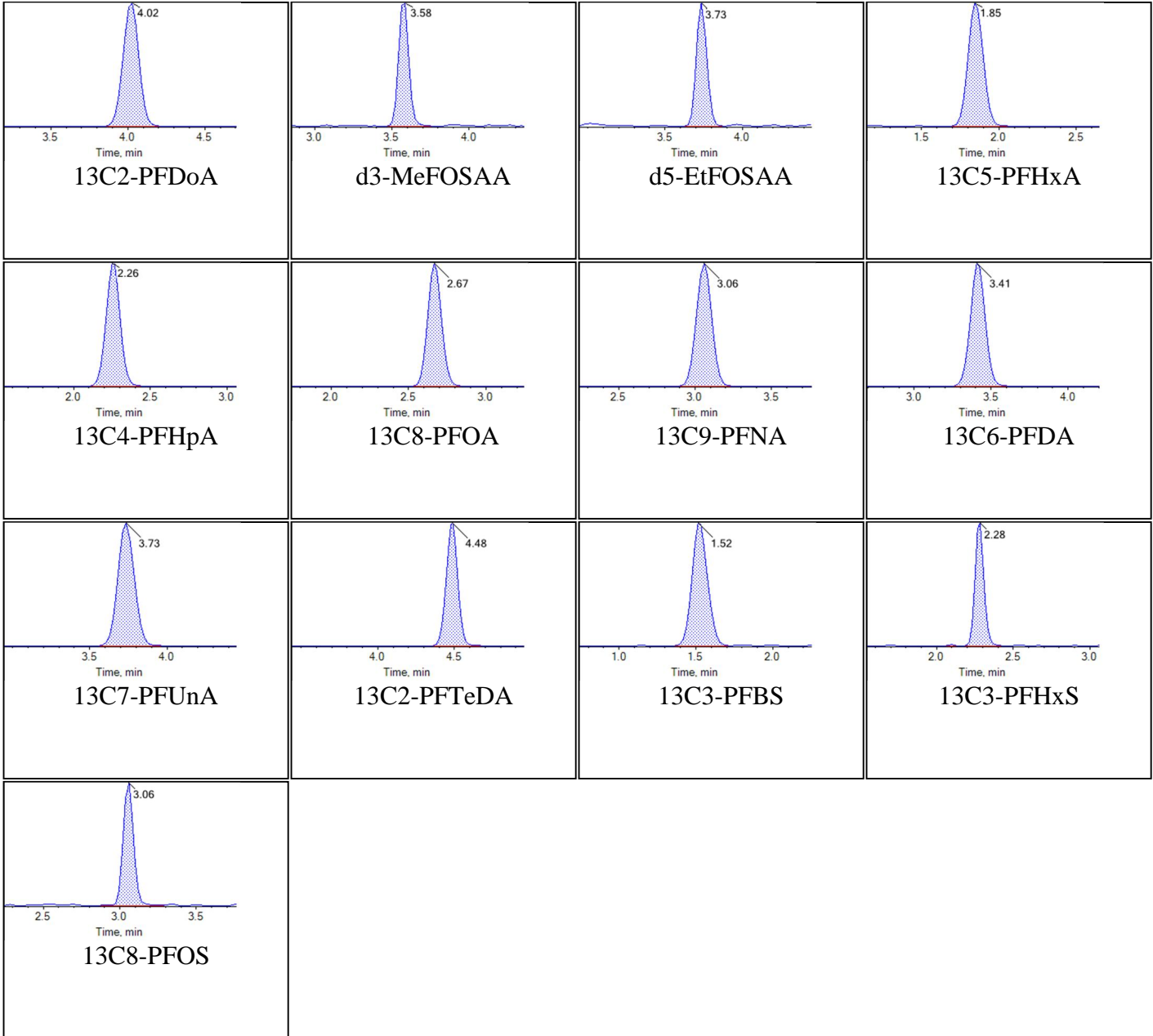


Chromatogram Report

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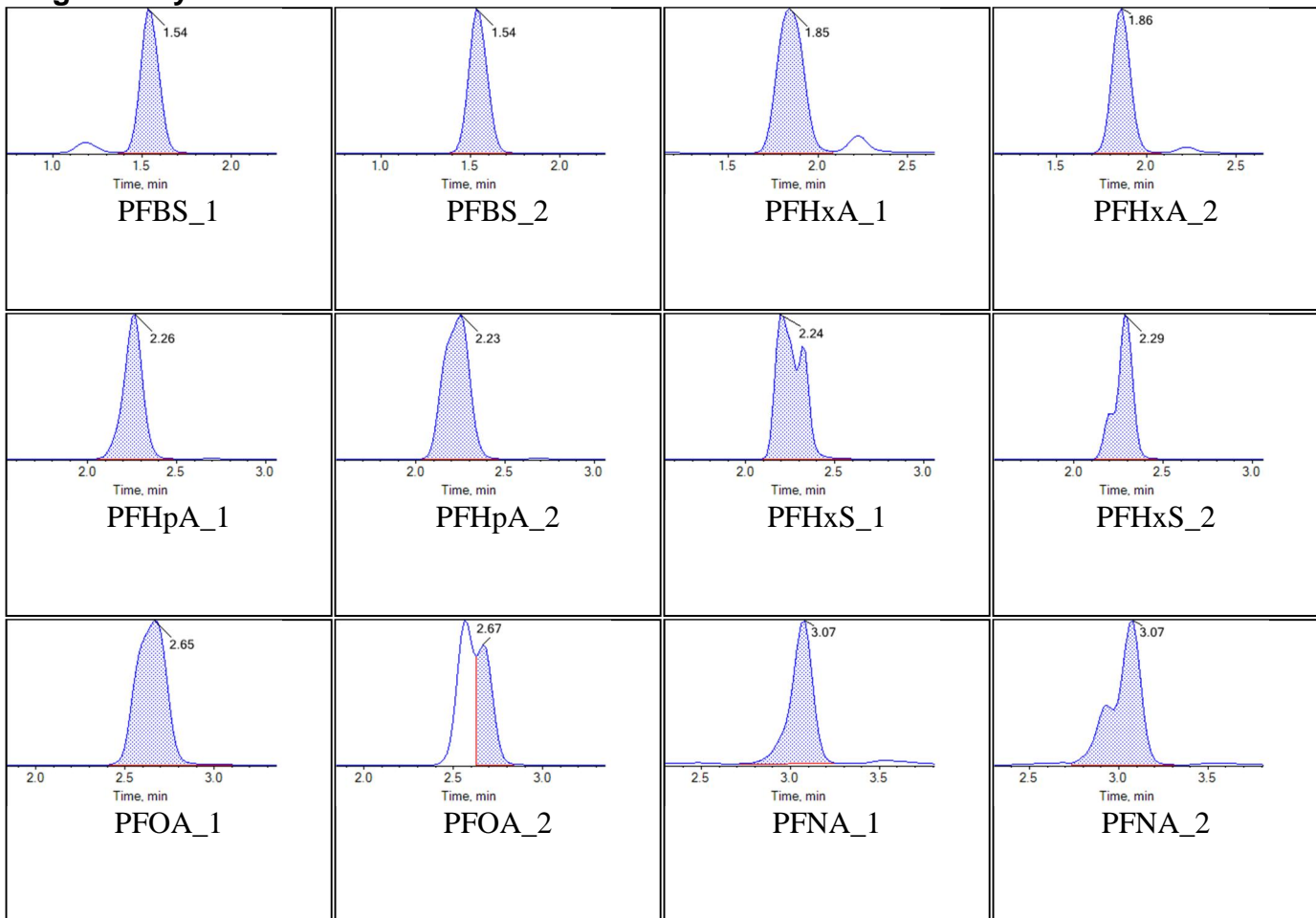
Internal Standards:

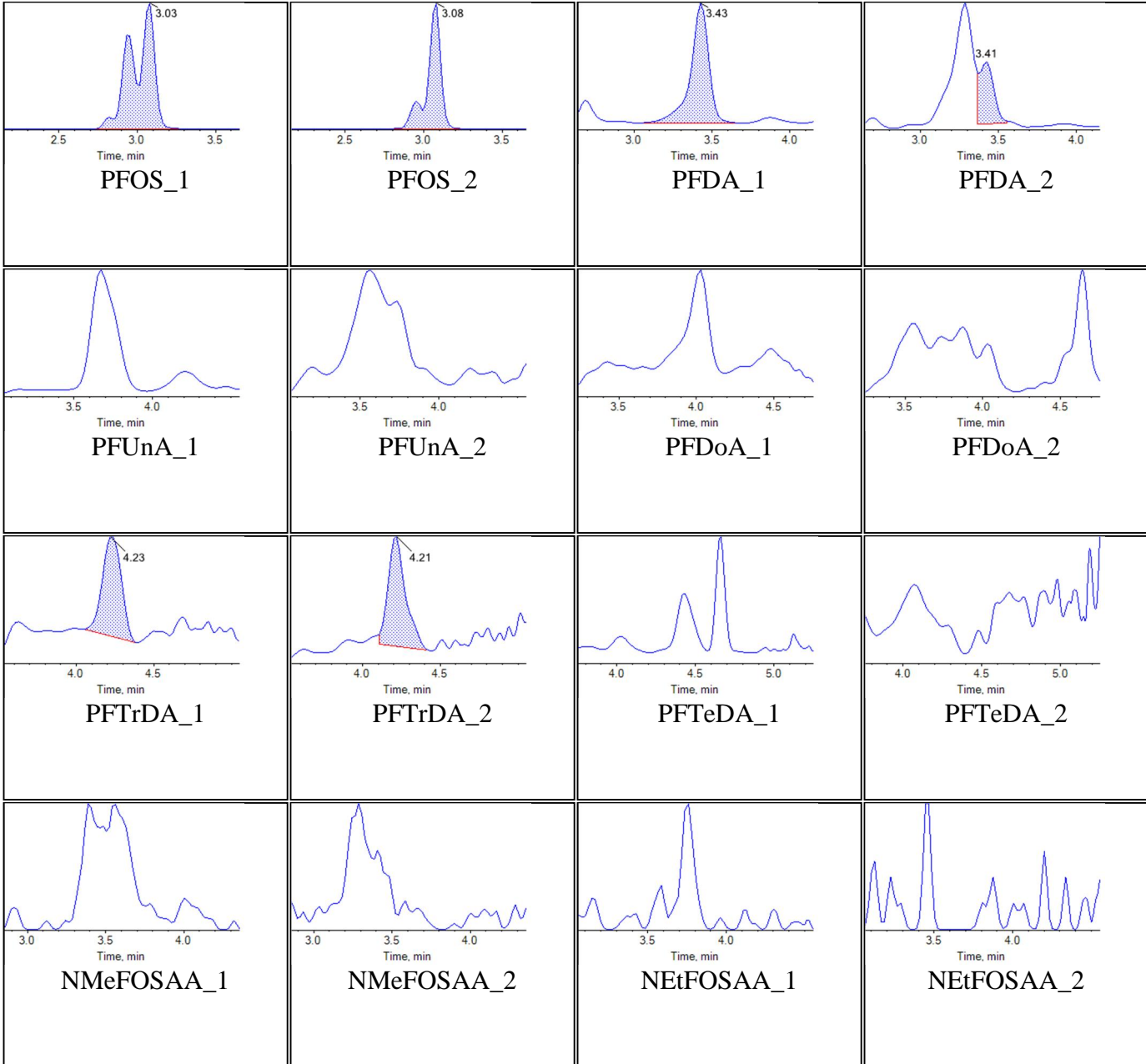


<b>Sample Name</b>	J8478-FS(0)	<b>Injection Vial</b>	15
<b>Sample ID</b>	VC-PM367-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:06:03	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

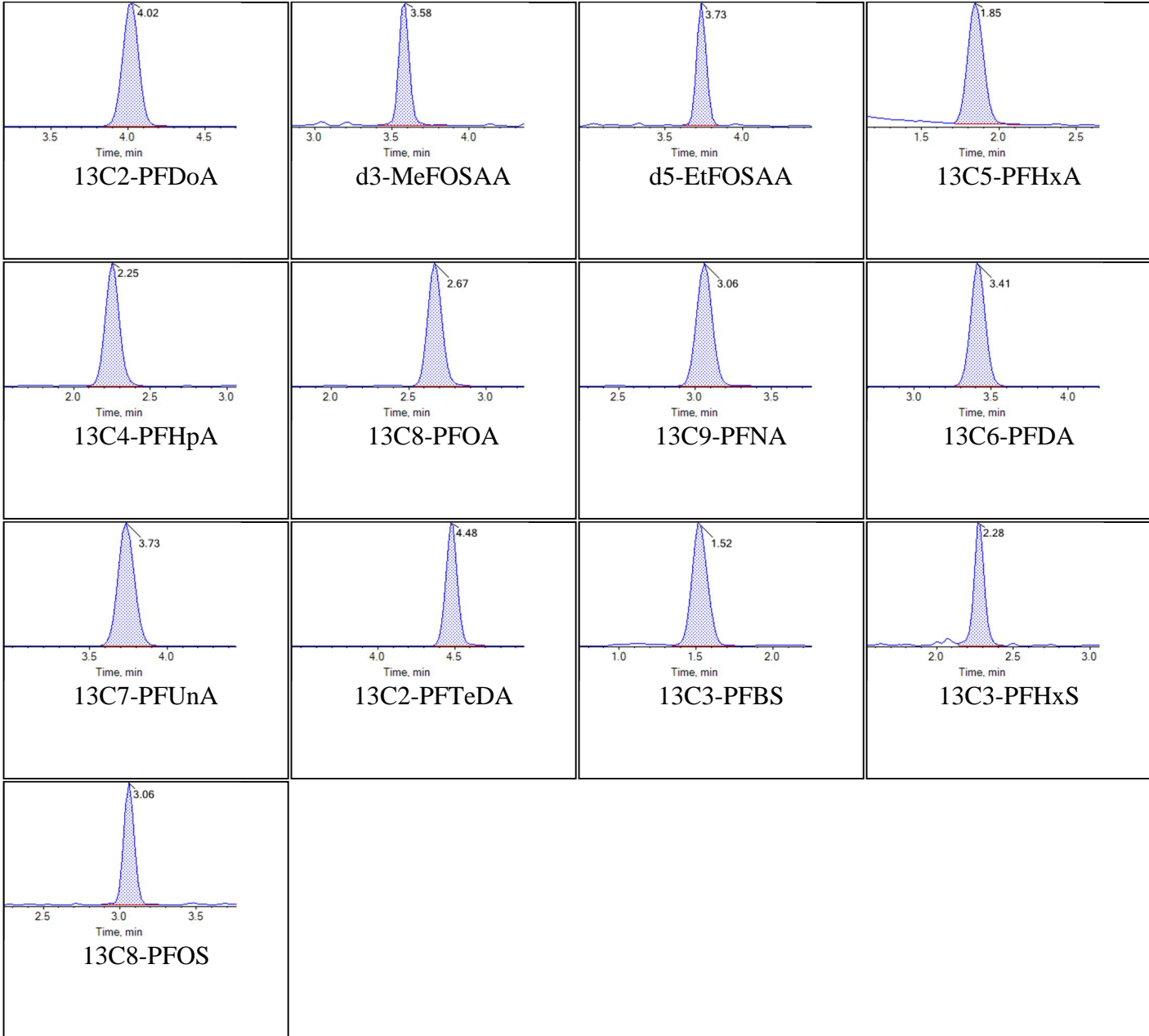
## Chromatograms

### Target Analytes:





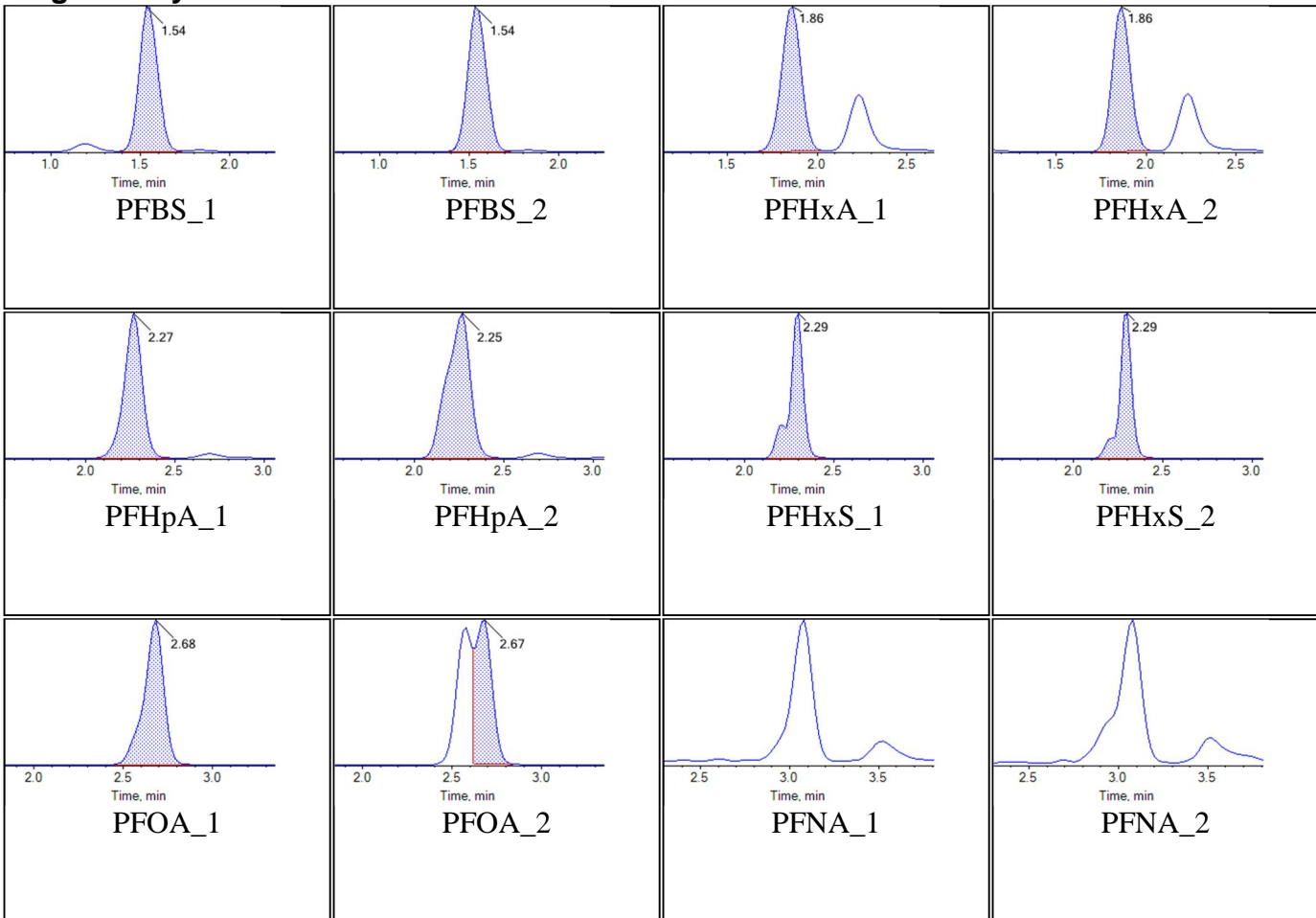
**Internal Standards:**



<b>Sample Name</b>	J8478-FS-D(3)	<b>Injection Vial</b>	16
<b>Sample ID</b>	VC-PM367-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:16:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

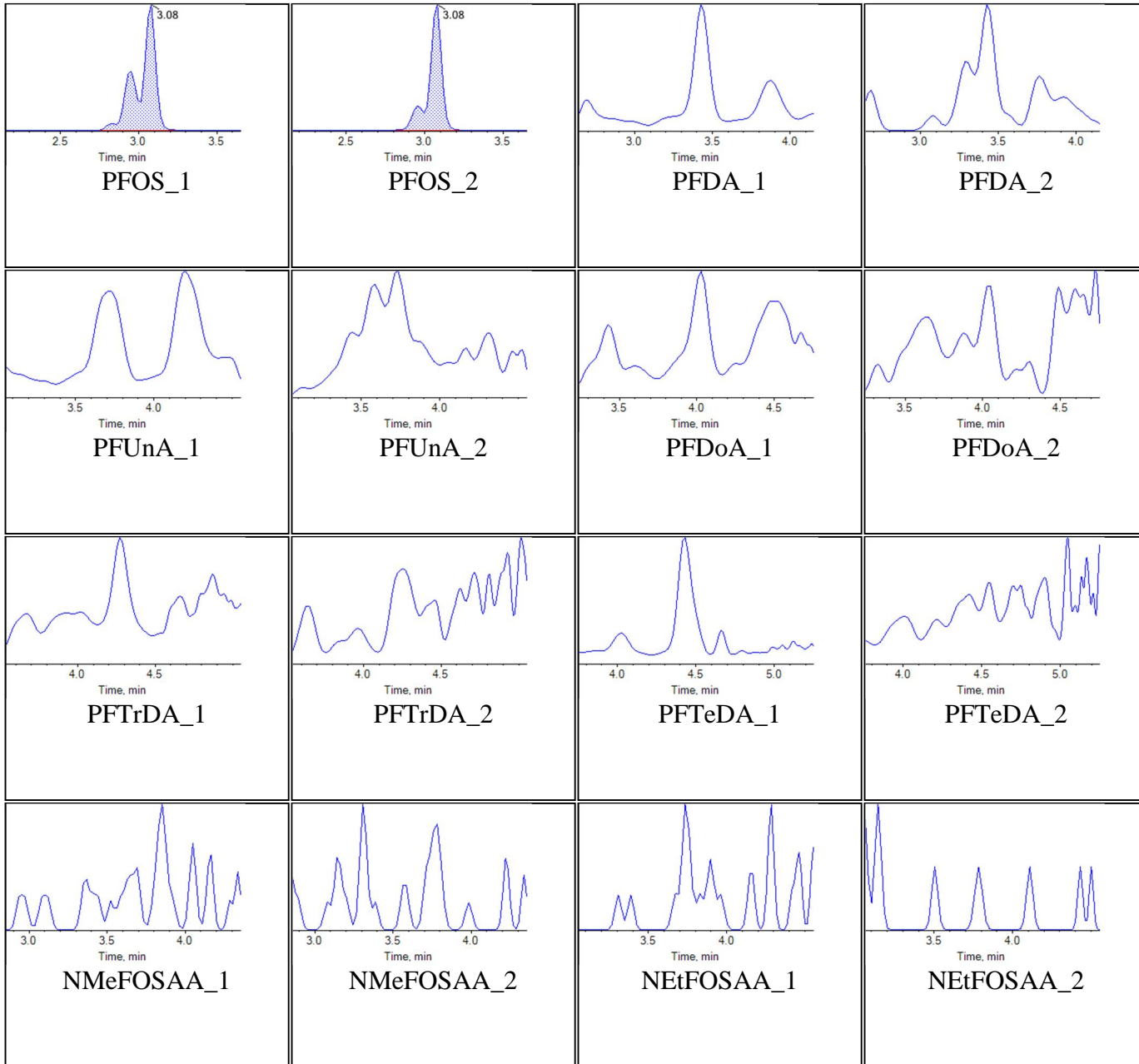
### Target Analytes:





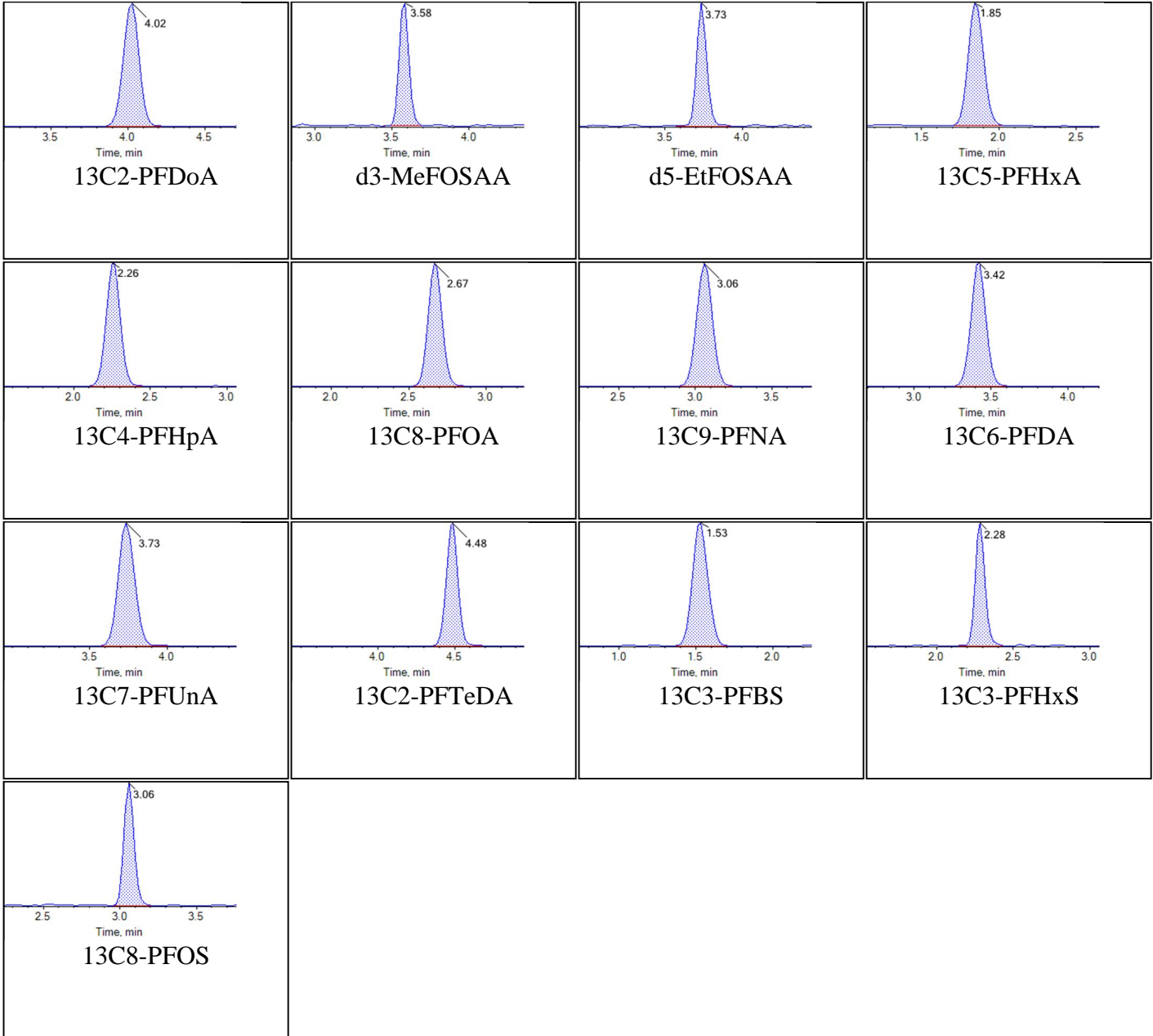
Chromatogram Report

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Internal Standards:

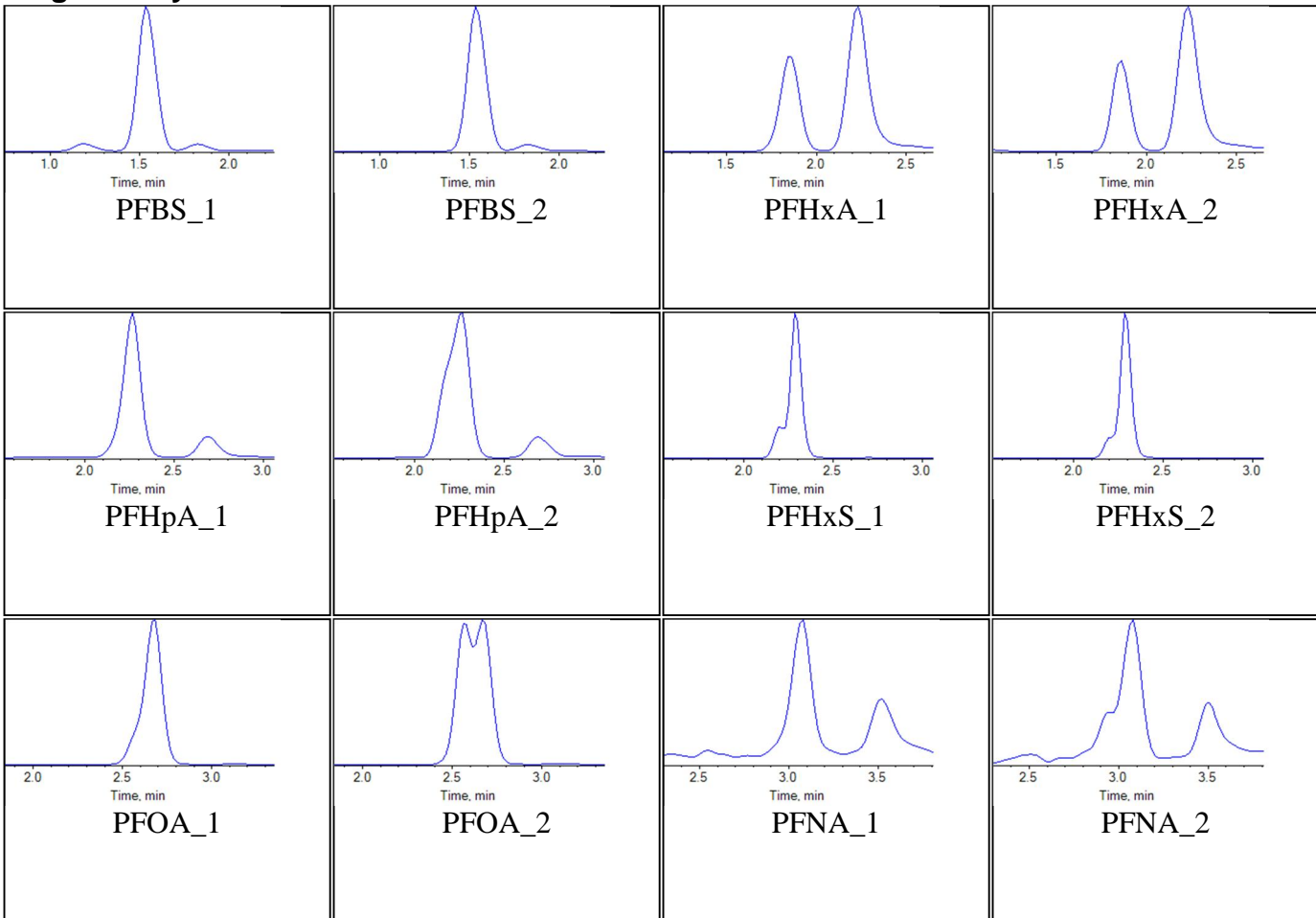




Sample Name	J8478-FS-D(5)	Injection Vial	17
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:27:49	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	1
Sample Comment			

## Chromatograms

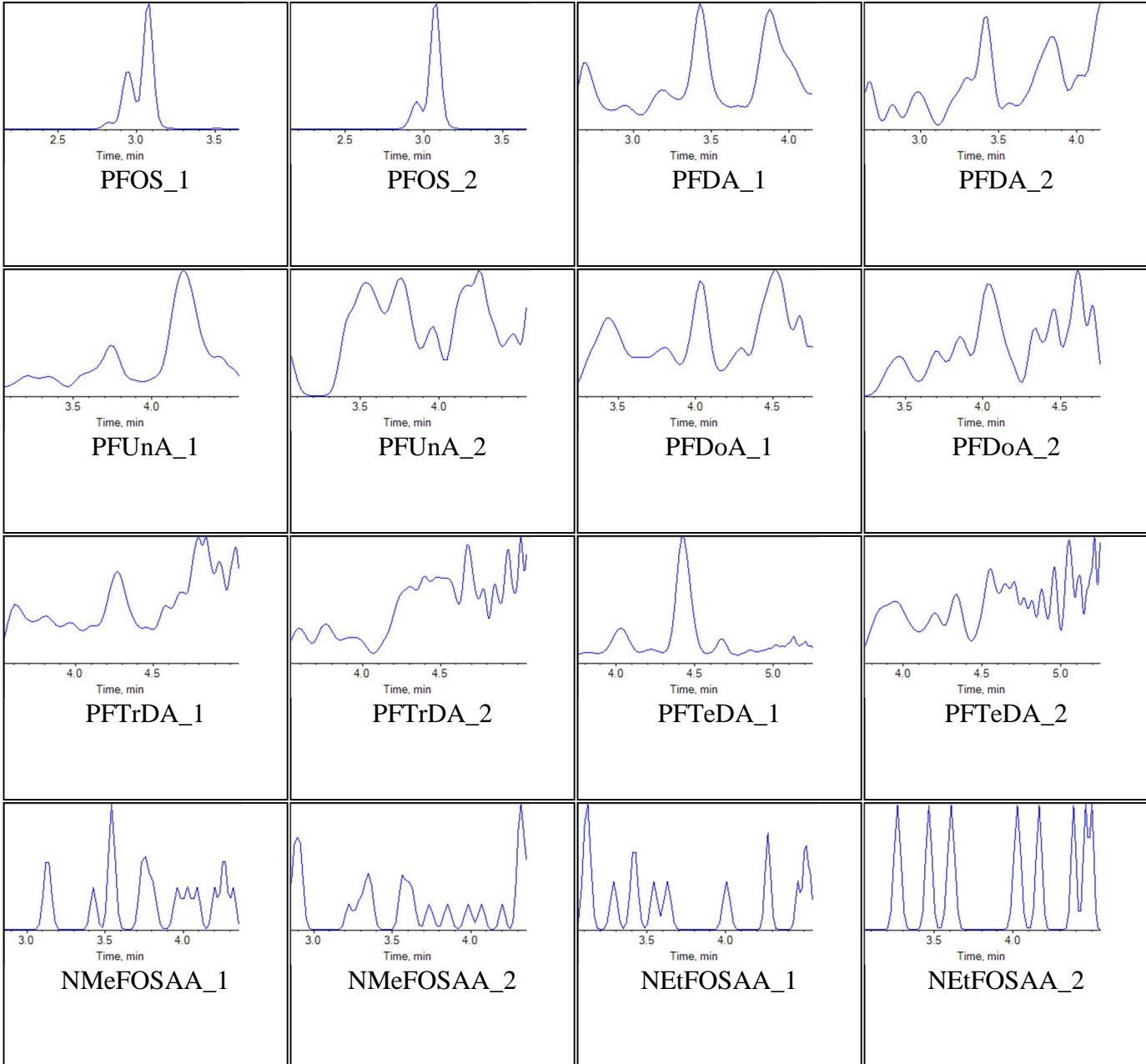
### Target Analytes:



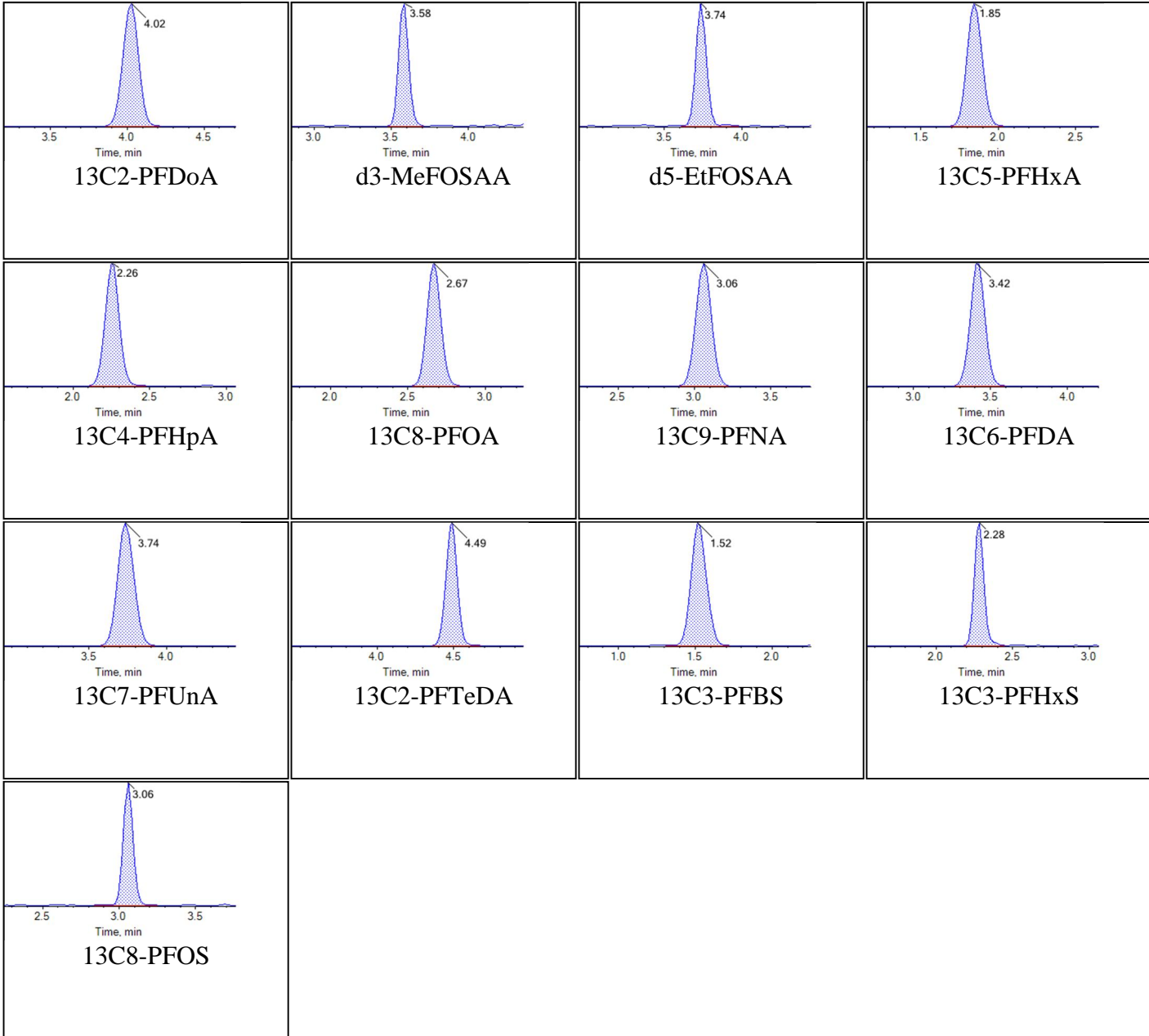


Chromatogram Report

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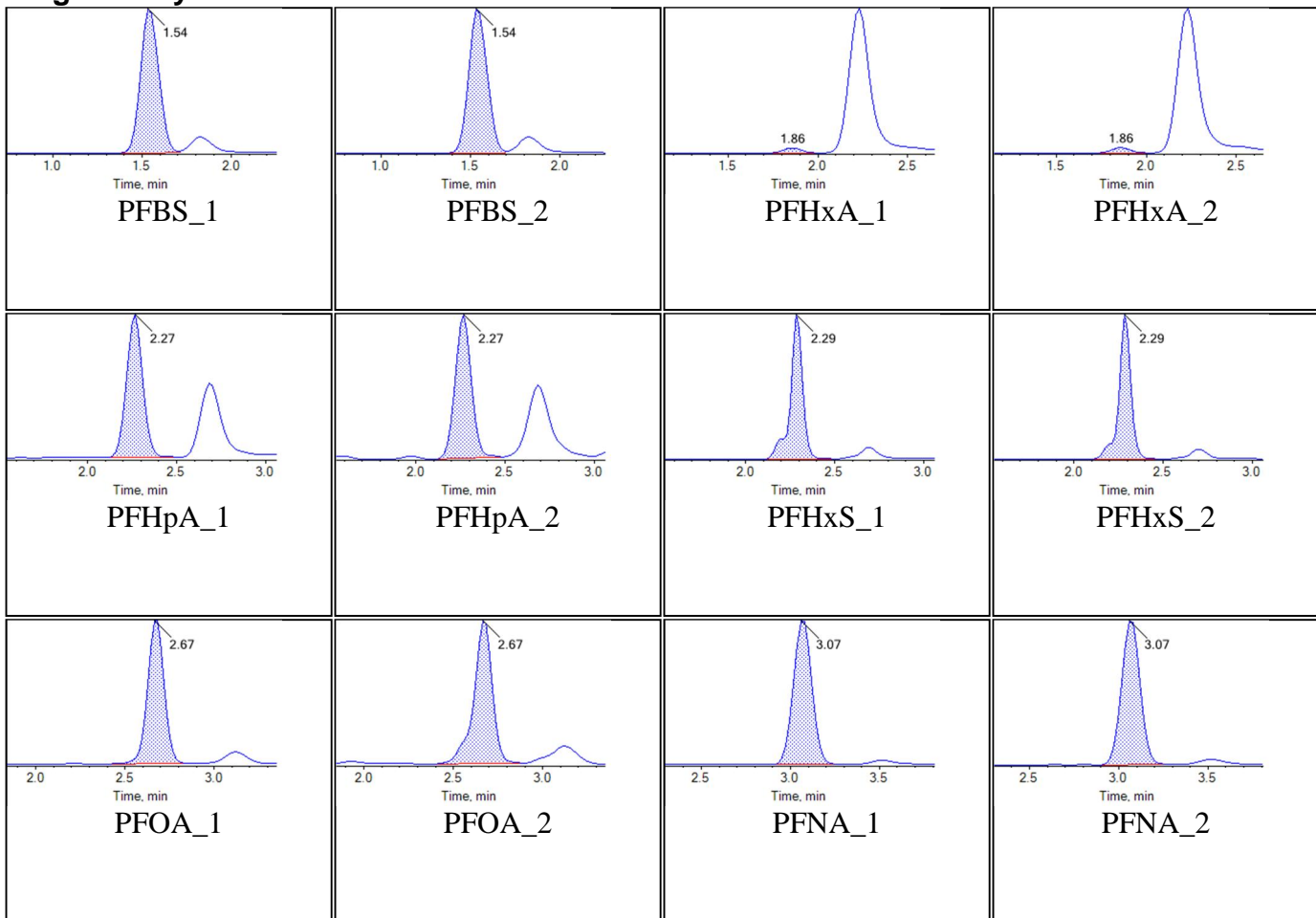
Internal Standards:



<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	18
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:38:41	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

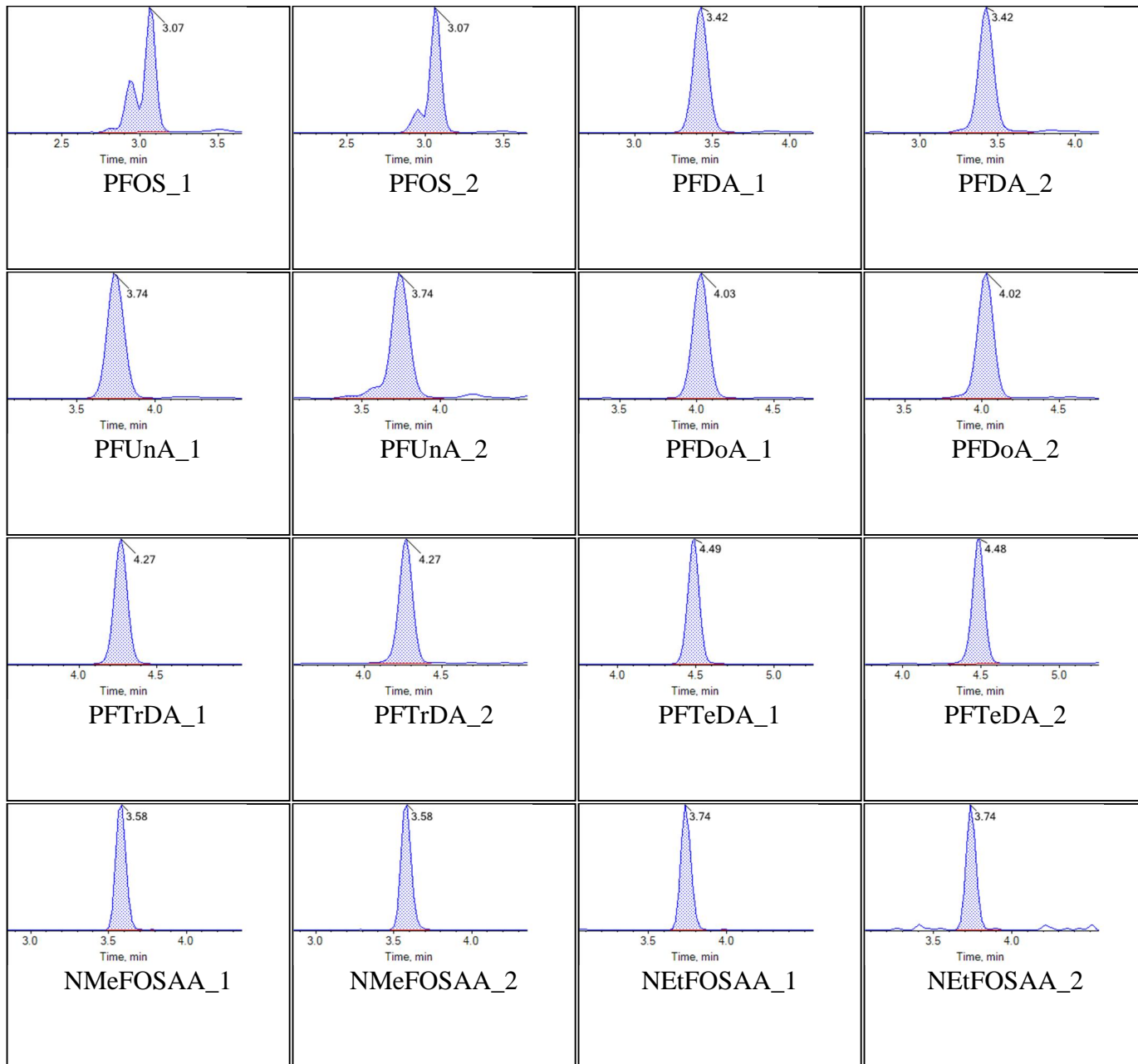
### Target Analytes:



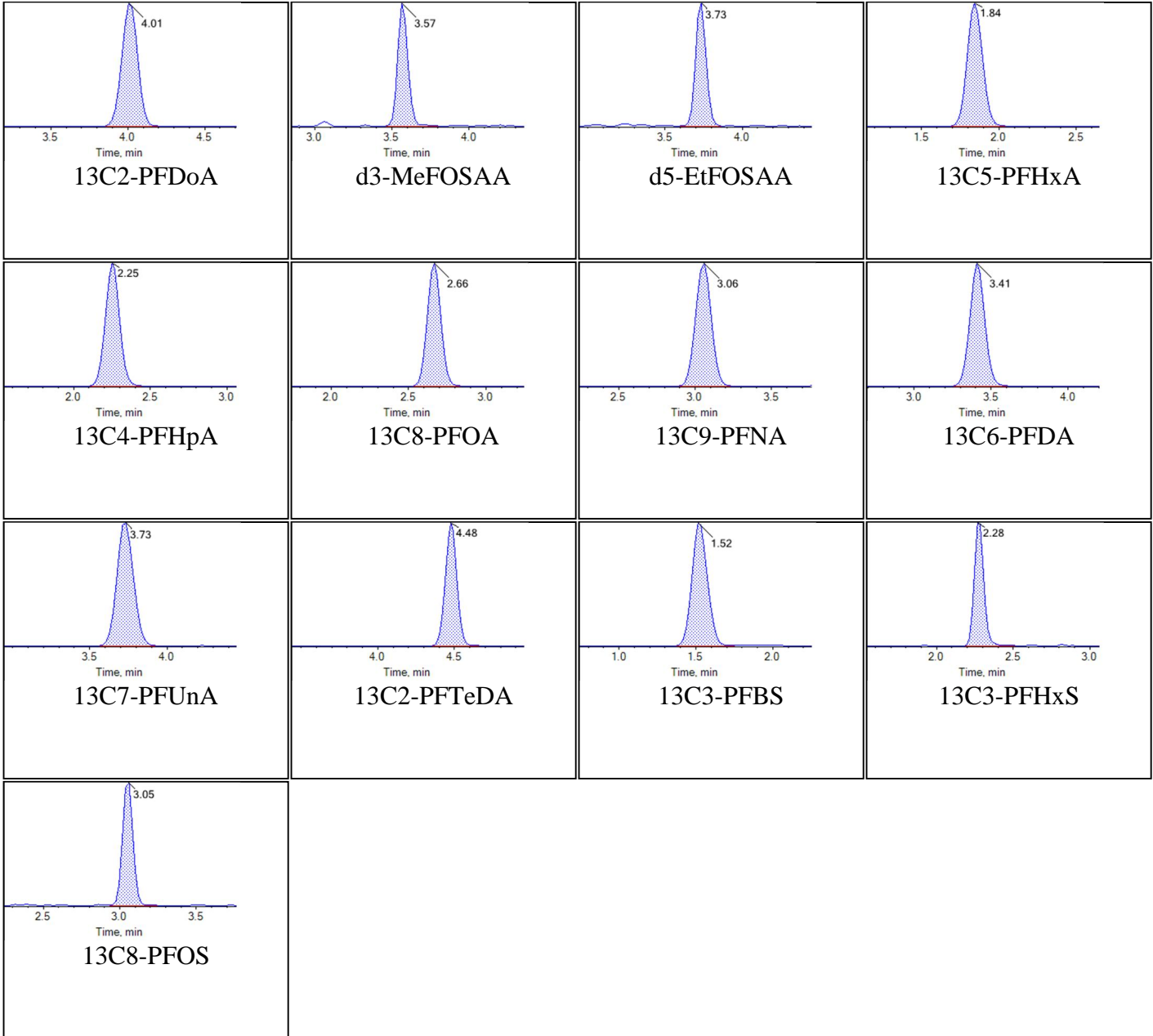


Chromatogram Report

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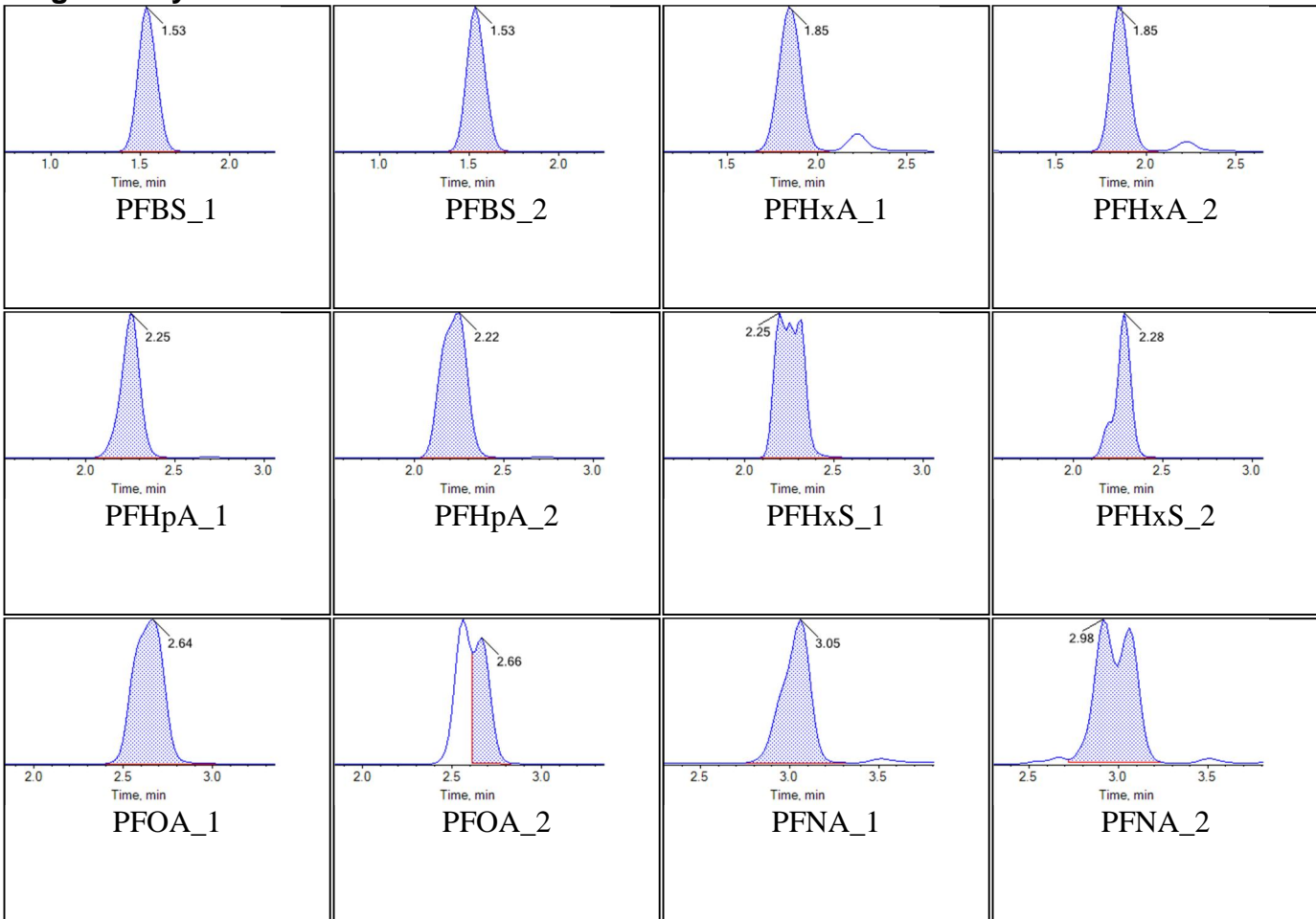
Internal Standards:



<b>Sample Name</b>	J8479-FS(0)	<b>Injection Vial</b>	20
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:00:25	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:

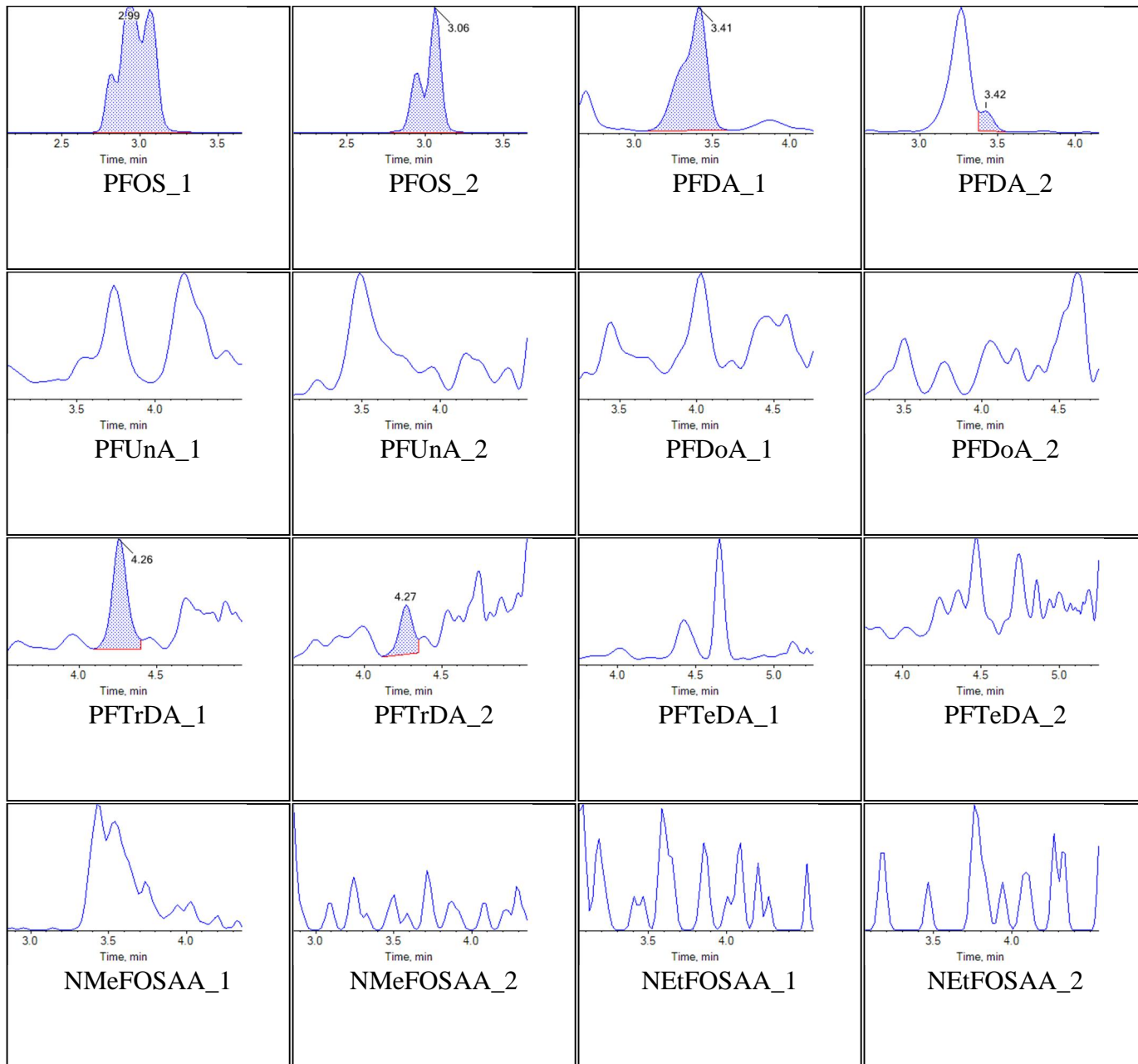




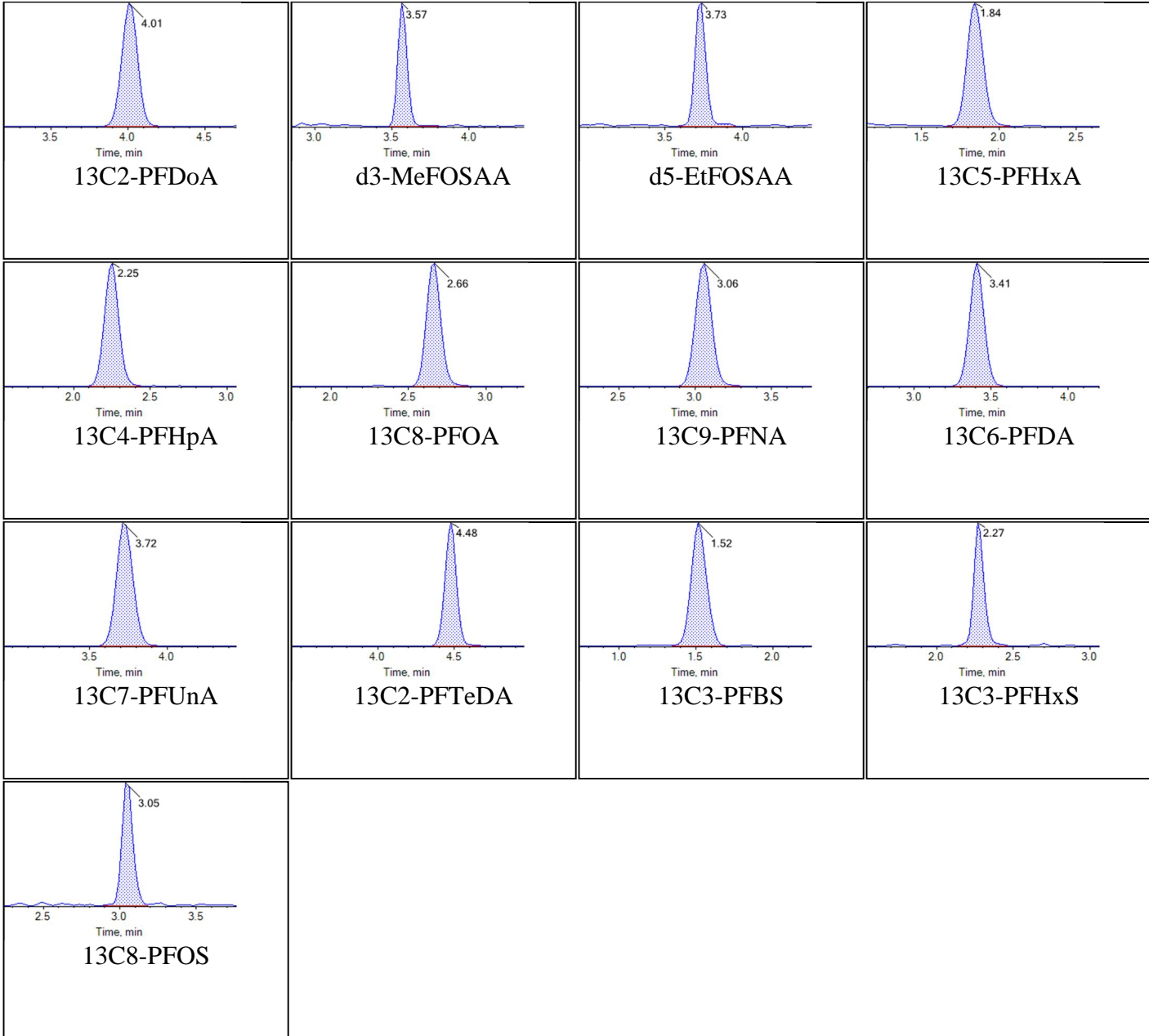


Chromatogram Report

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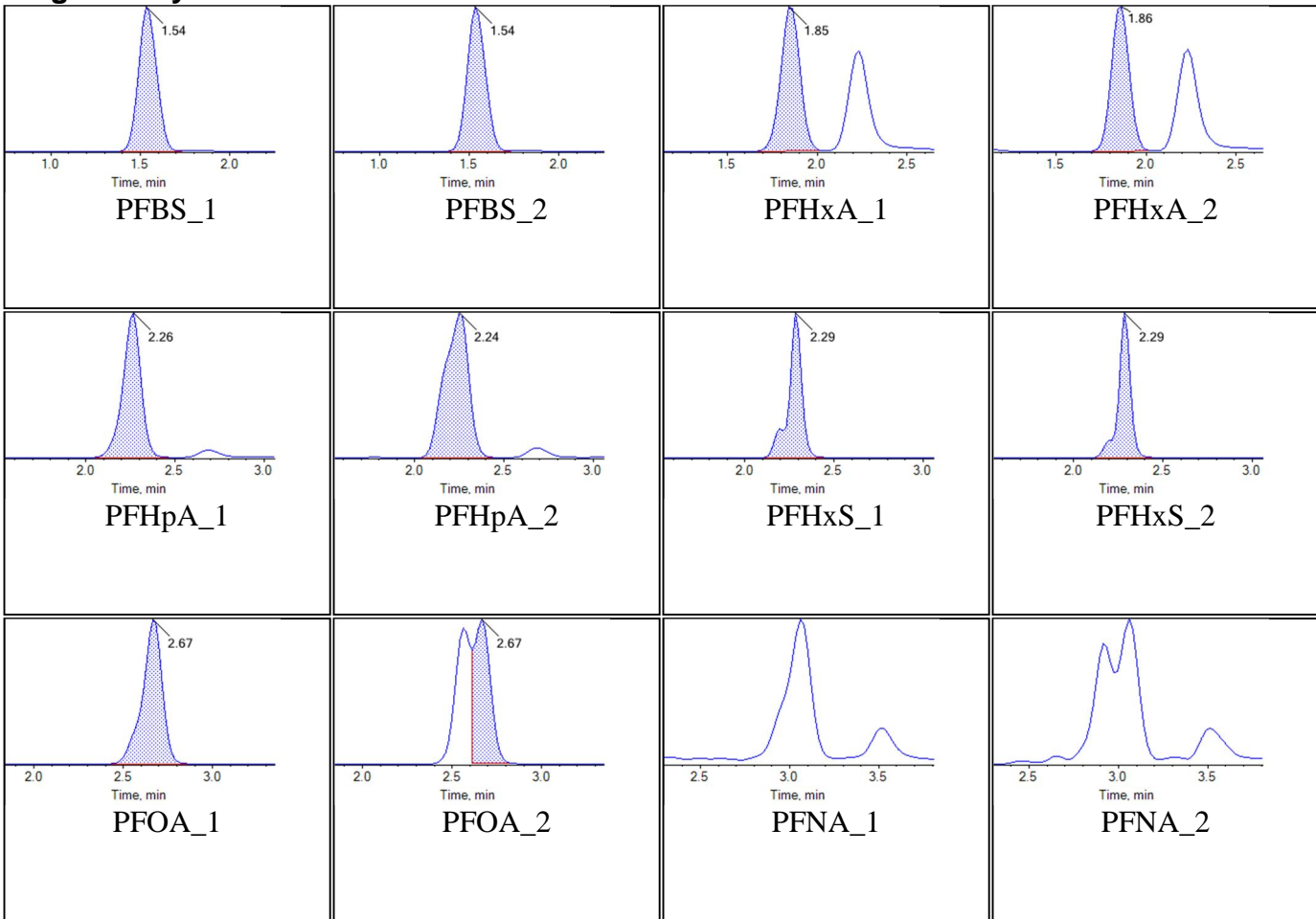
Internal Standards:



<b>Sample Name</b>	J8479-FS-D(3)	<b>Injection Vial</b>	21
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:11:19	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

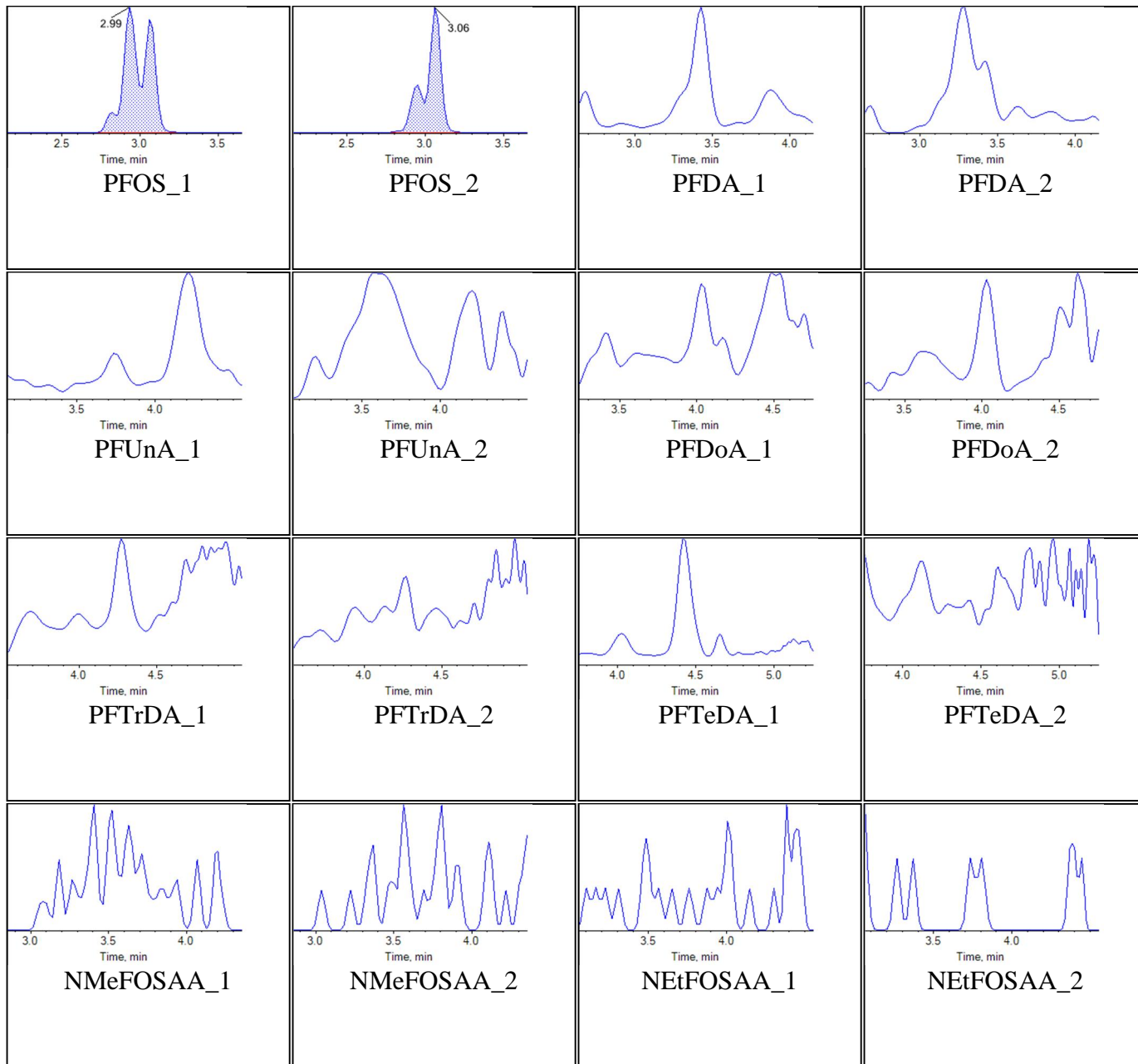
### Target Analytes:



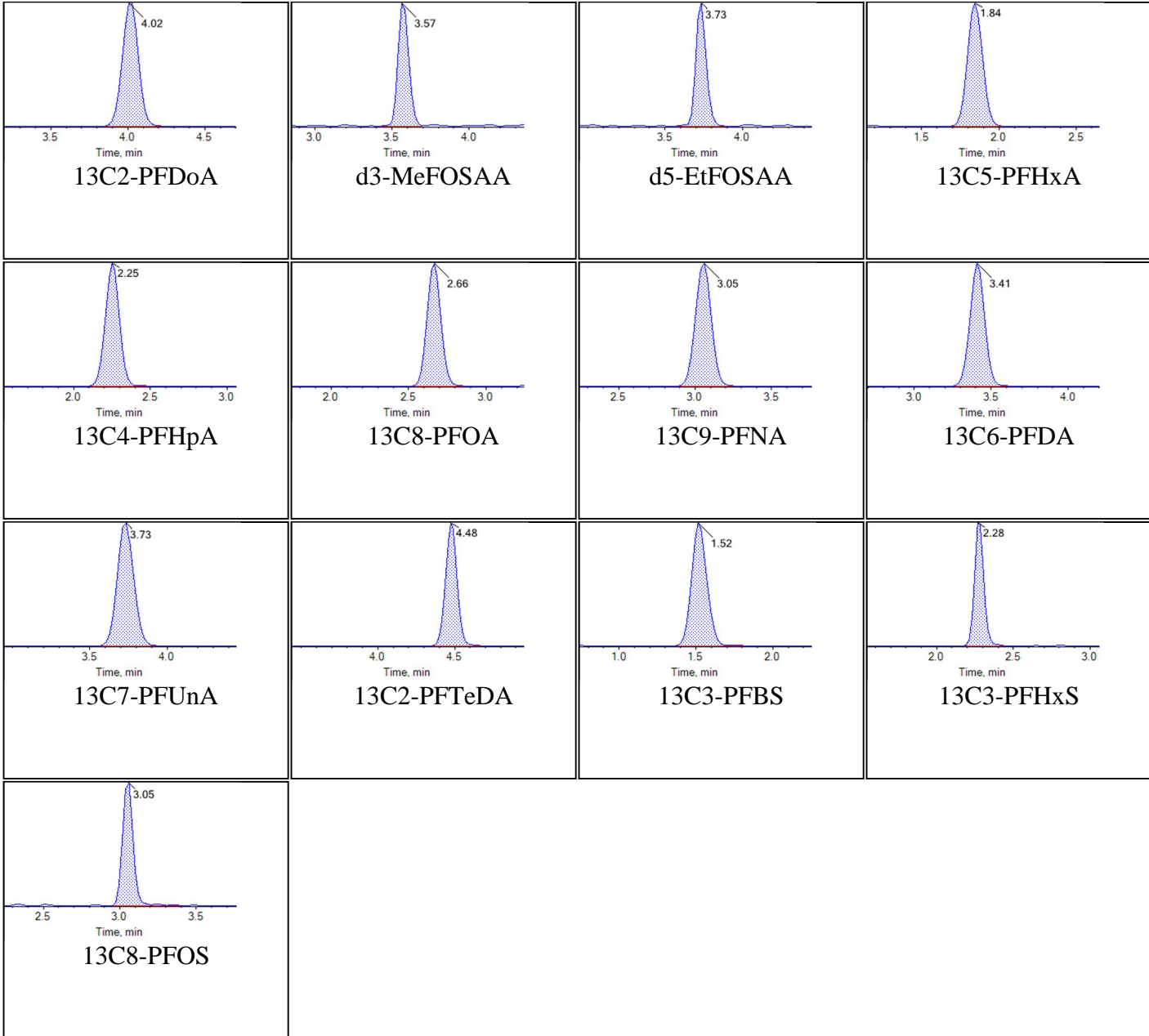


Chromatogram Report

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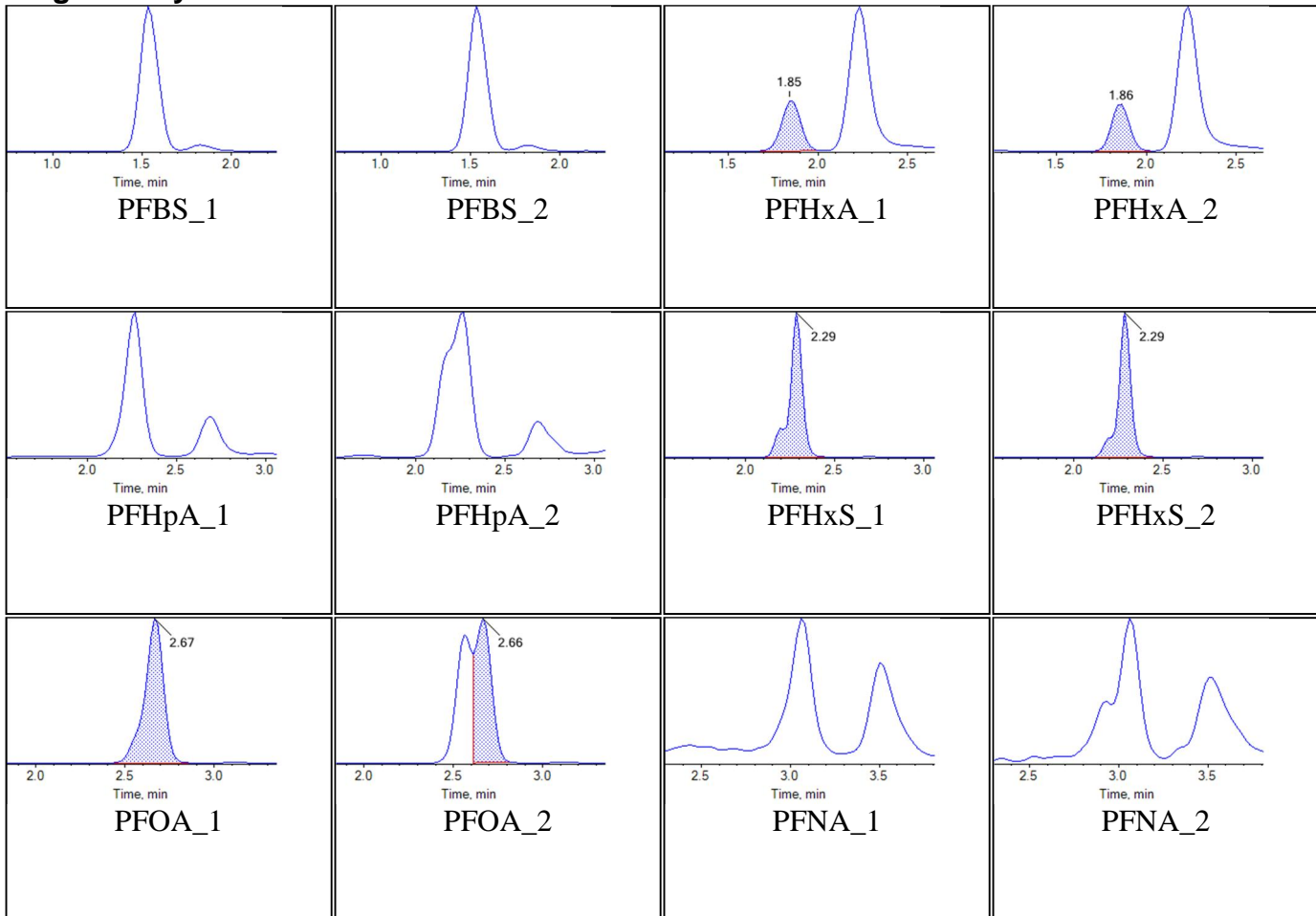
Internal Standards:



<b>Sample Name</b>	J8479-FS-D(5)	<b>Injection Vial</b>	22
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:22:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

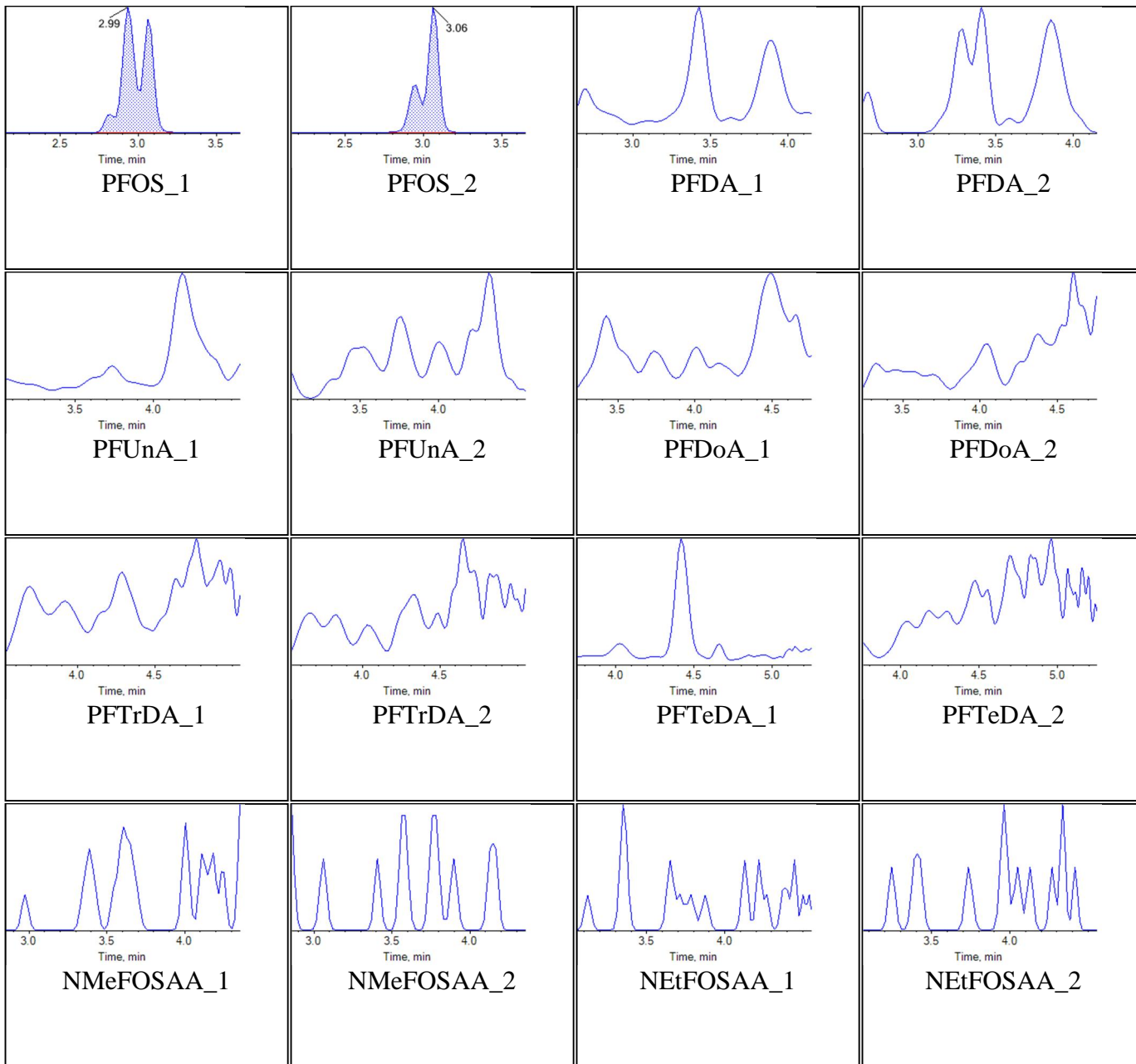
### Target Analytes:



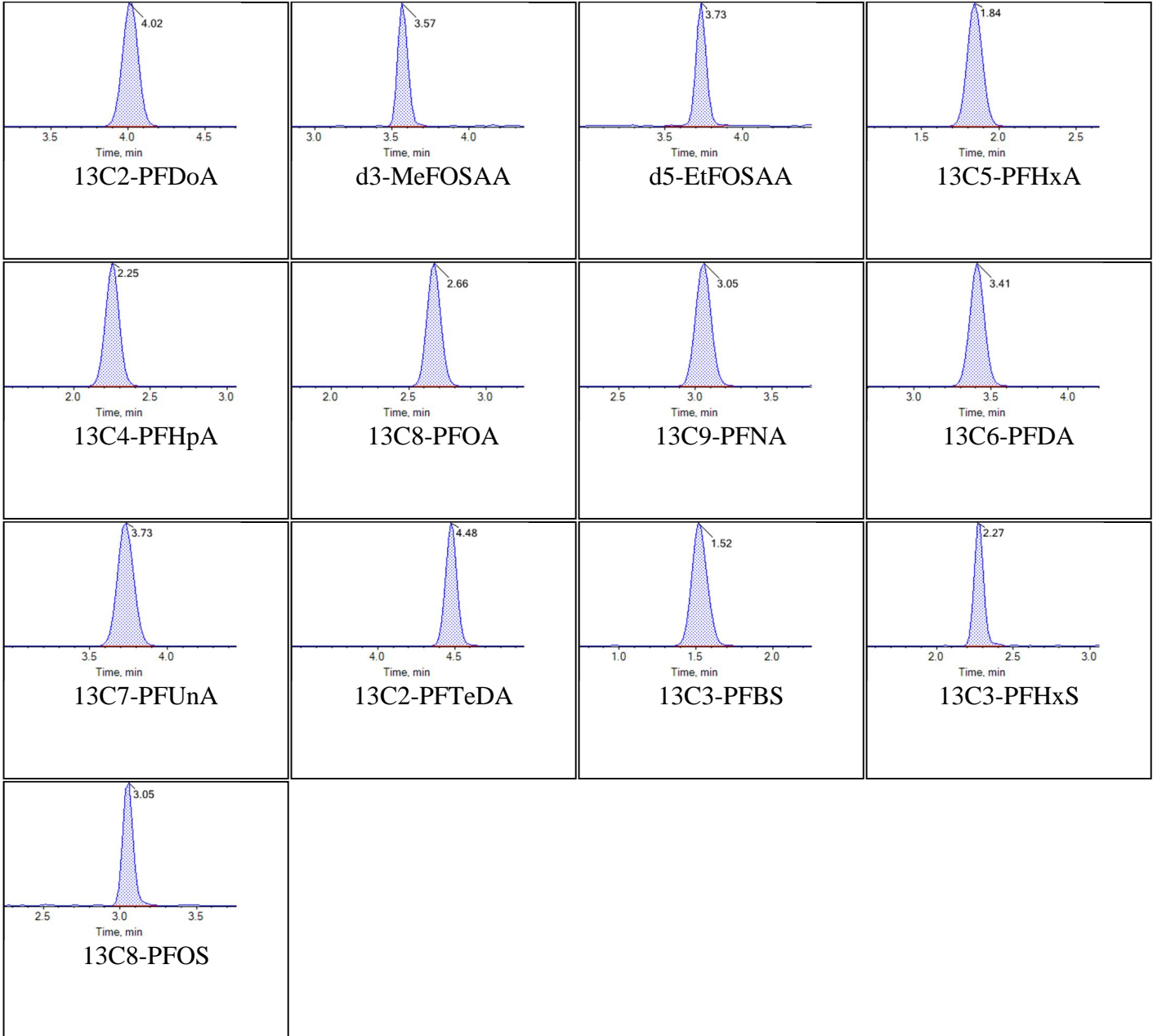


Chromatogram Report

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Internal Standards:

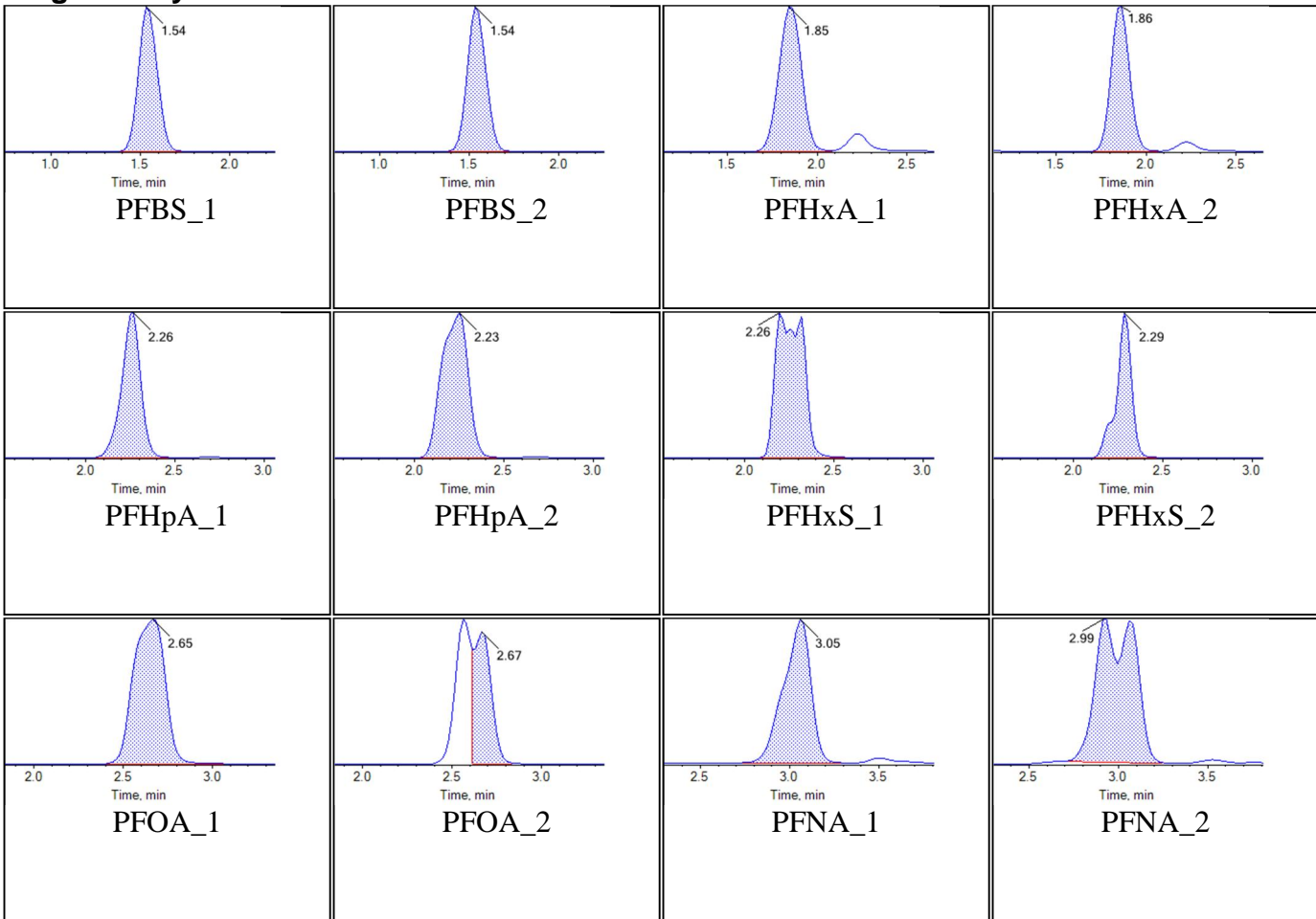




<b>Sample Name</b>	J8480-FS(0)	<b>Injection Vial</b>	23
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:33:08	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

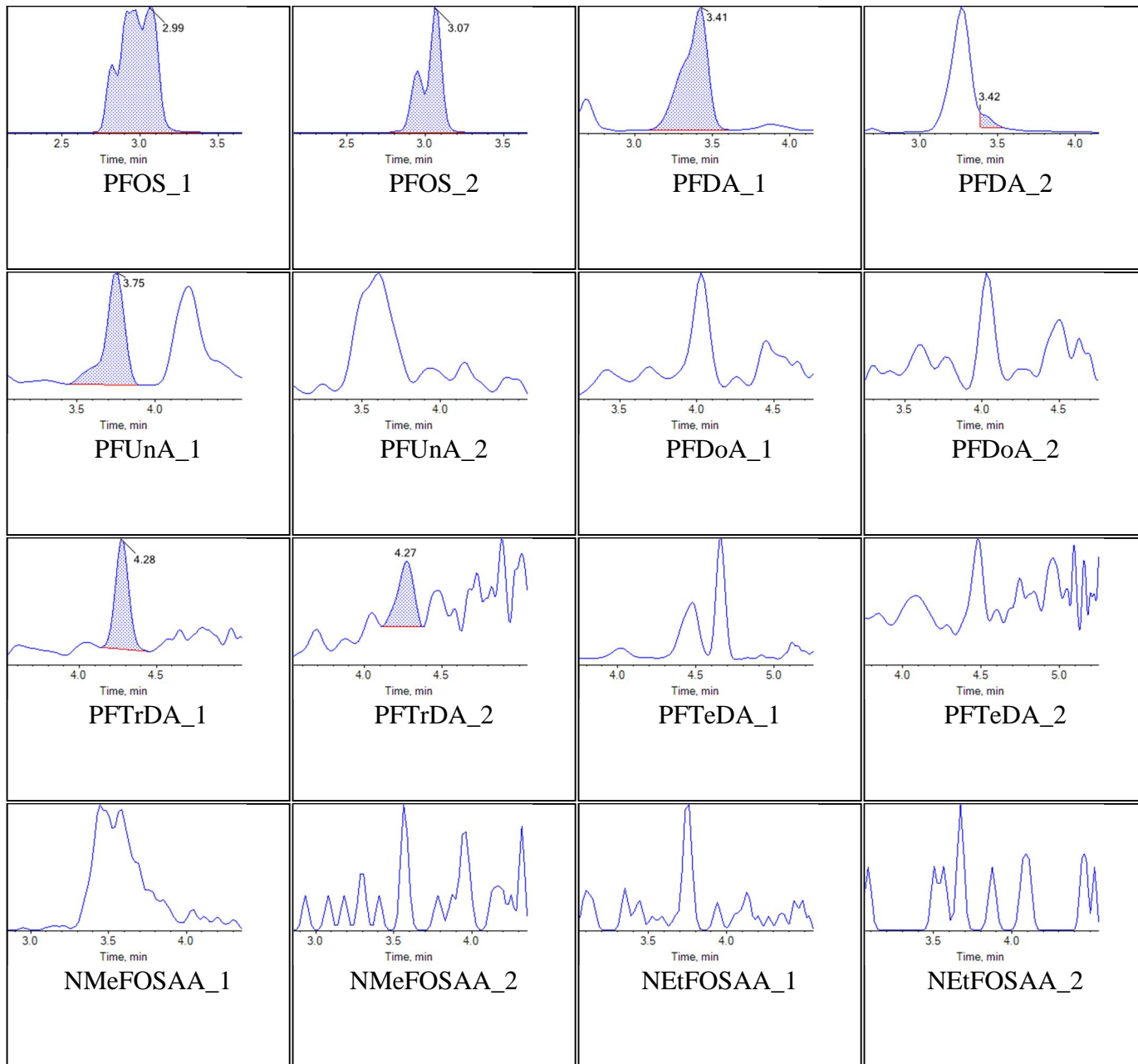
### Target Analytes:



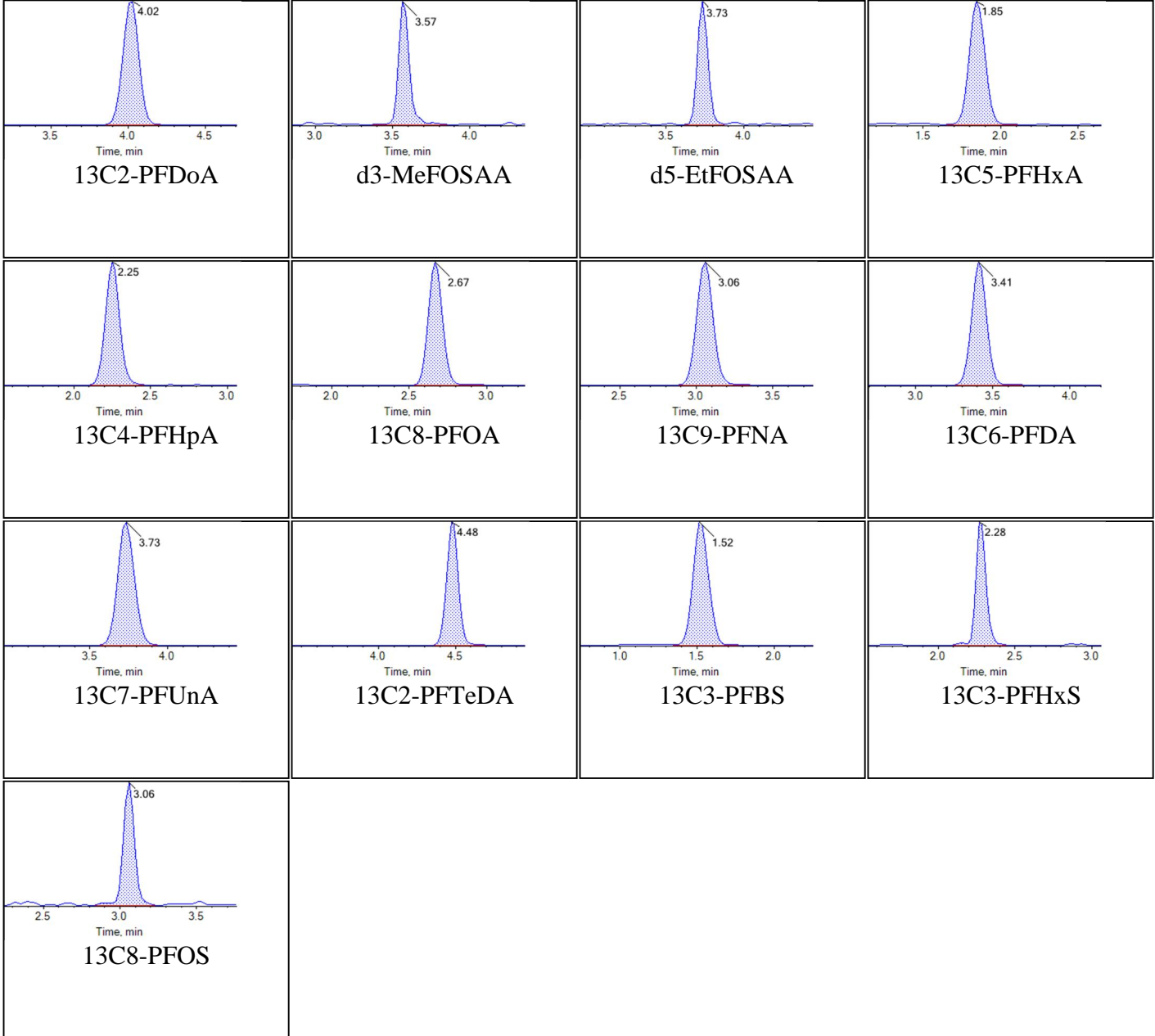


Chromatogram Report

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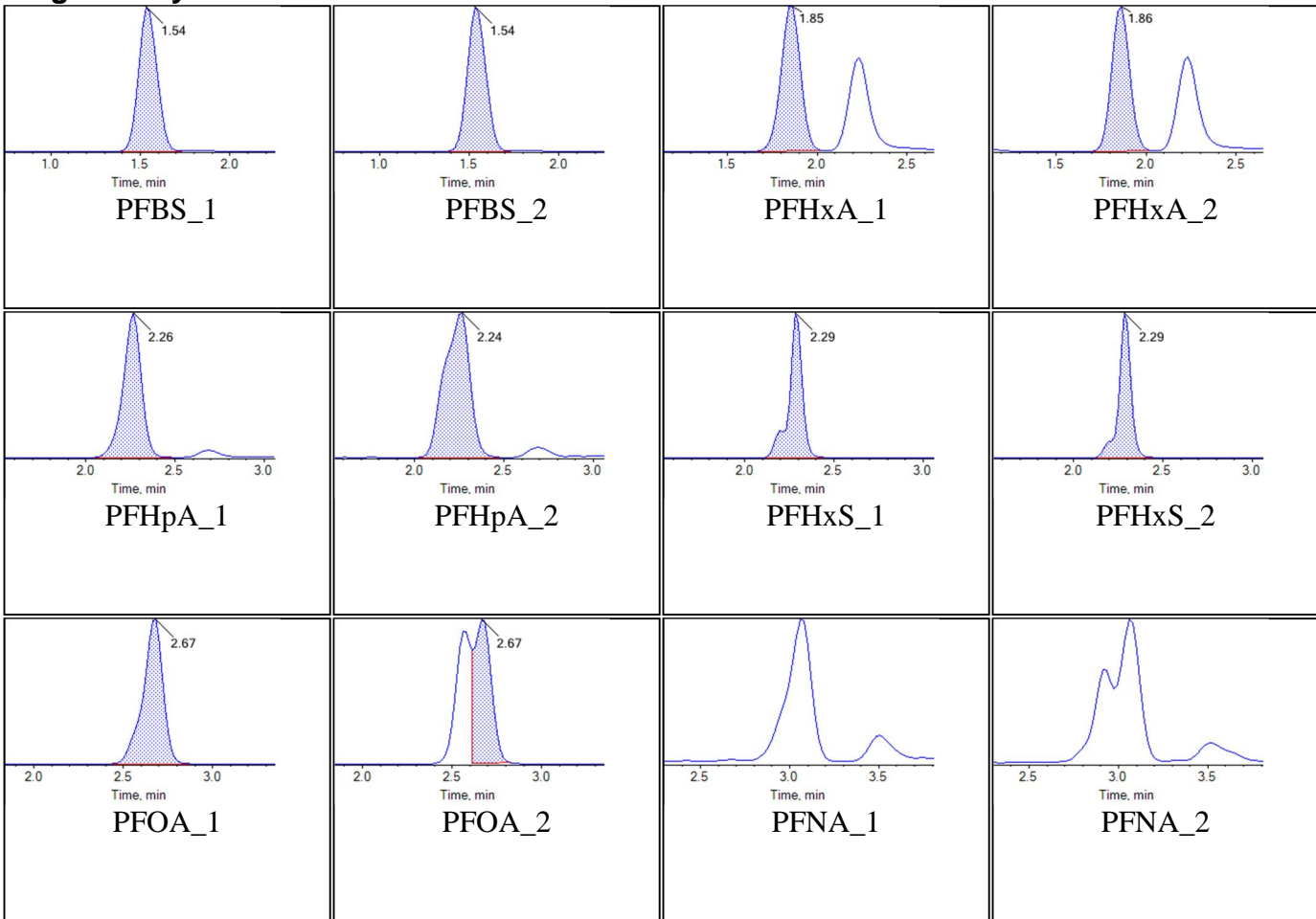
Internal Standards:



<b>Sample Name</b>	J8480-FS-D(3)	<b>Injection Vial</b>	24
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:44:00	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

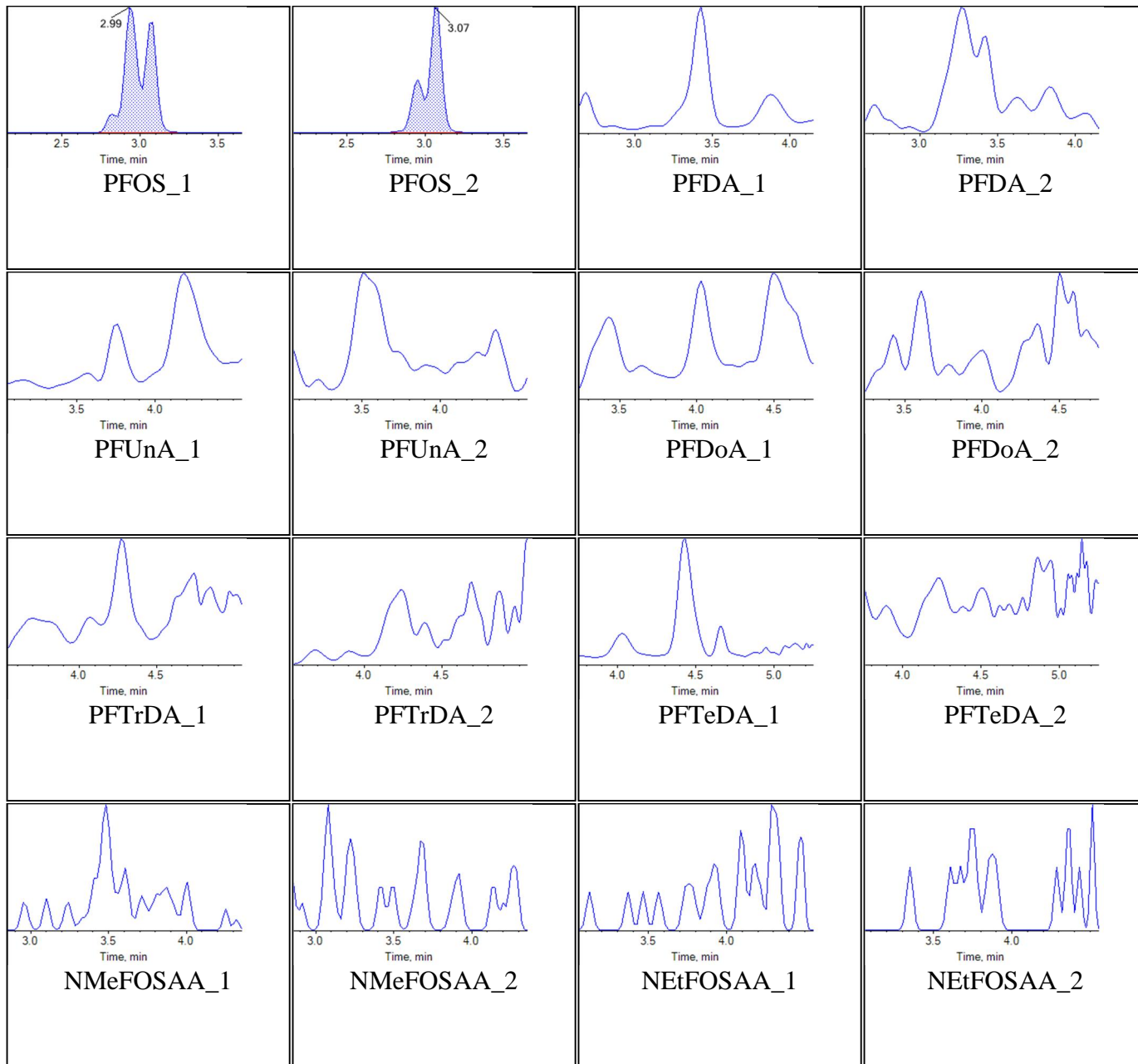
### Target Analytes:



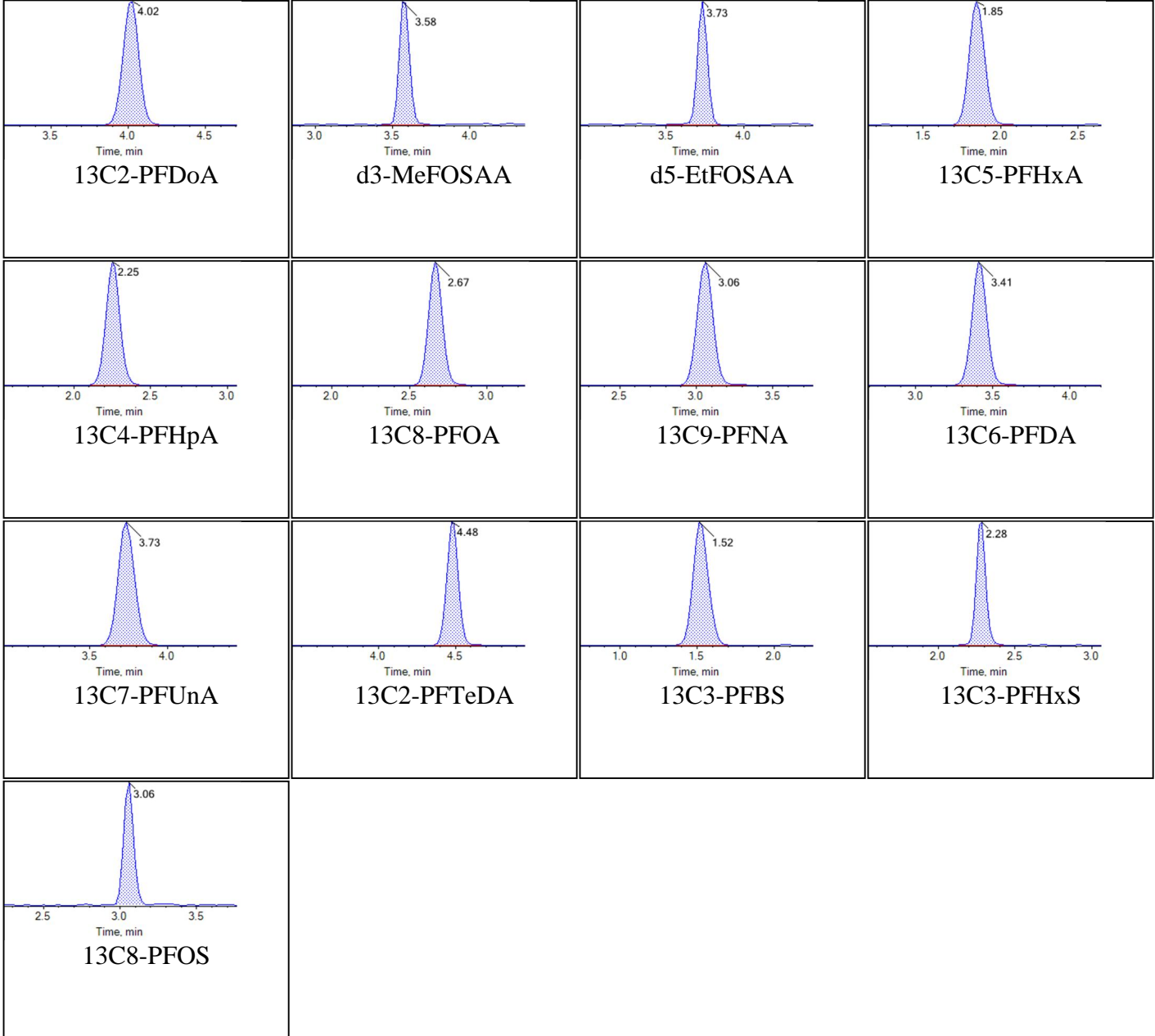


Chromatogram Report

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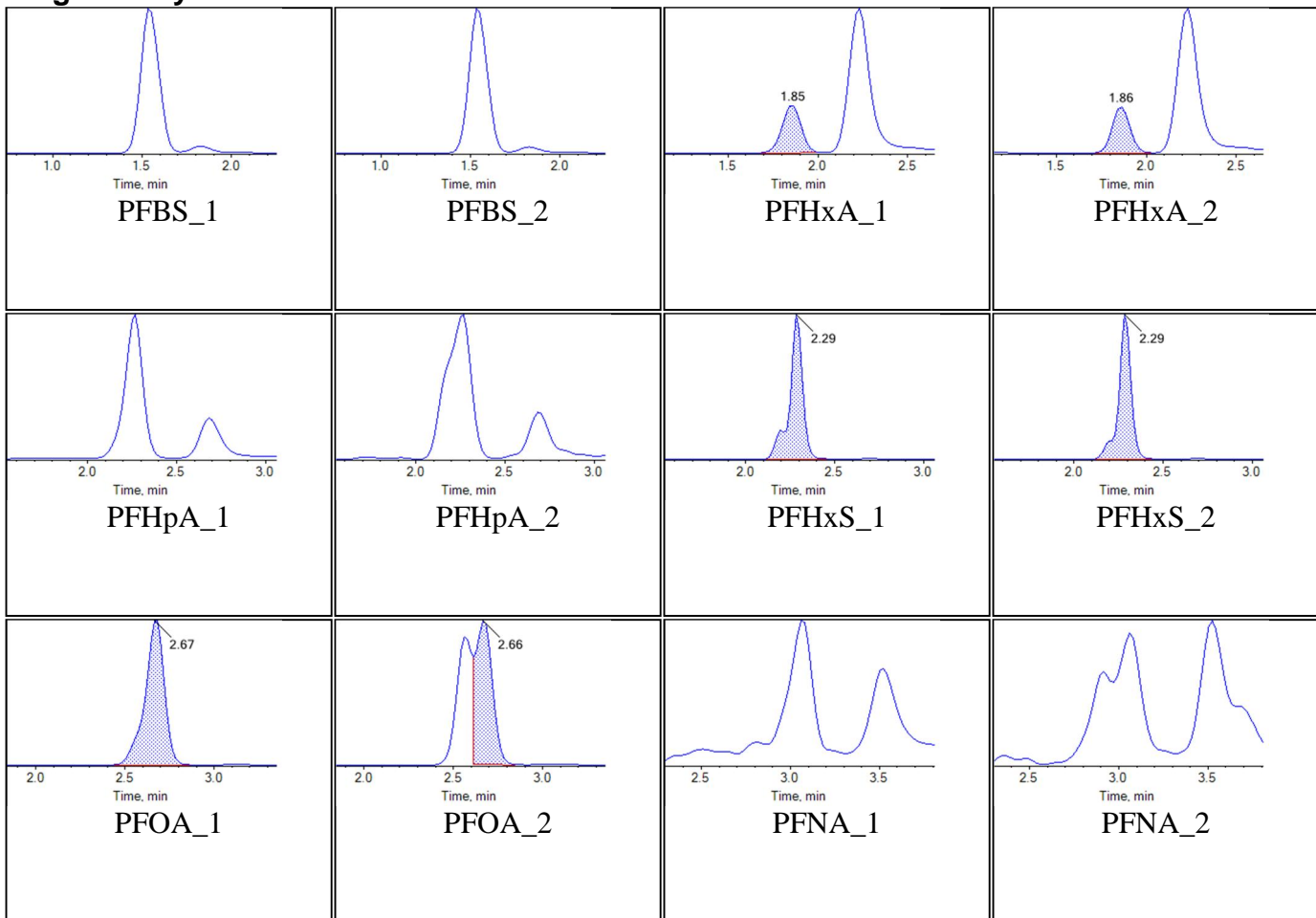
Internal Standards:



<b>Sample Name</b>	J8480-FS-D(5)	<b>Injection Vial</b>	25
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:54:54	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

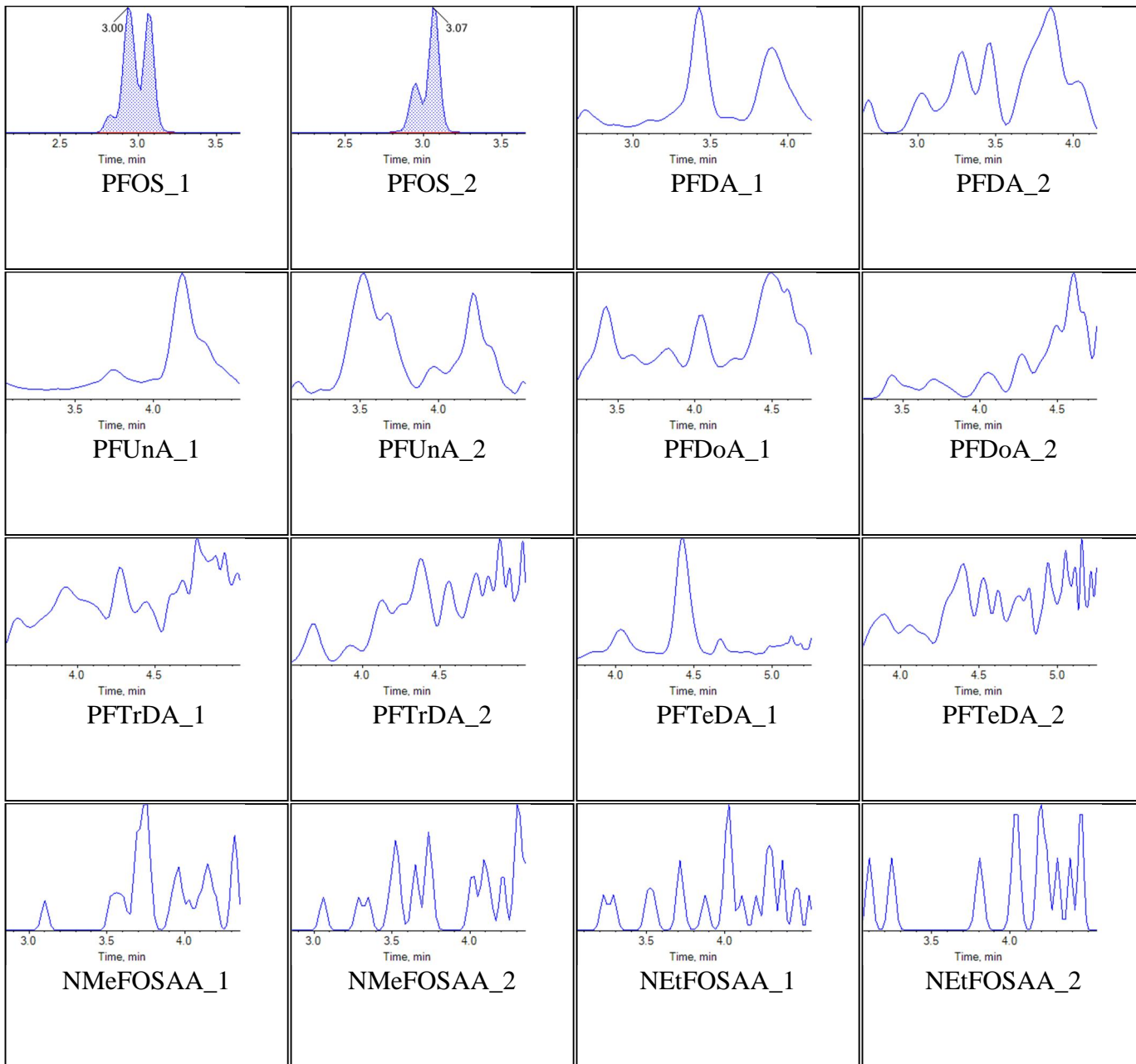
### Target Analytes:





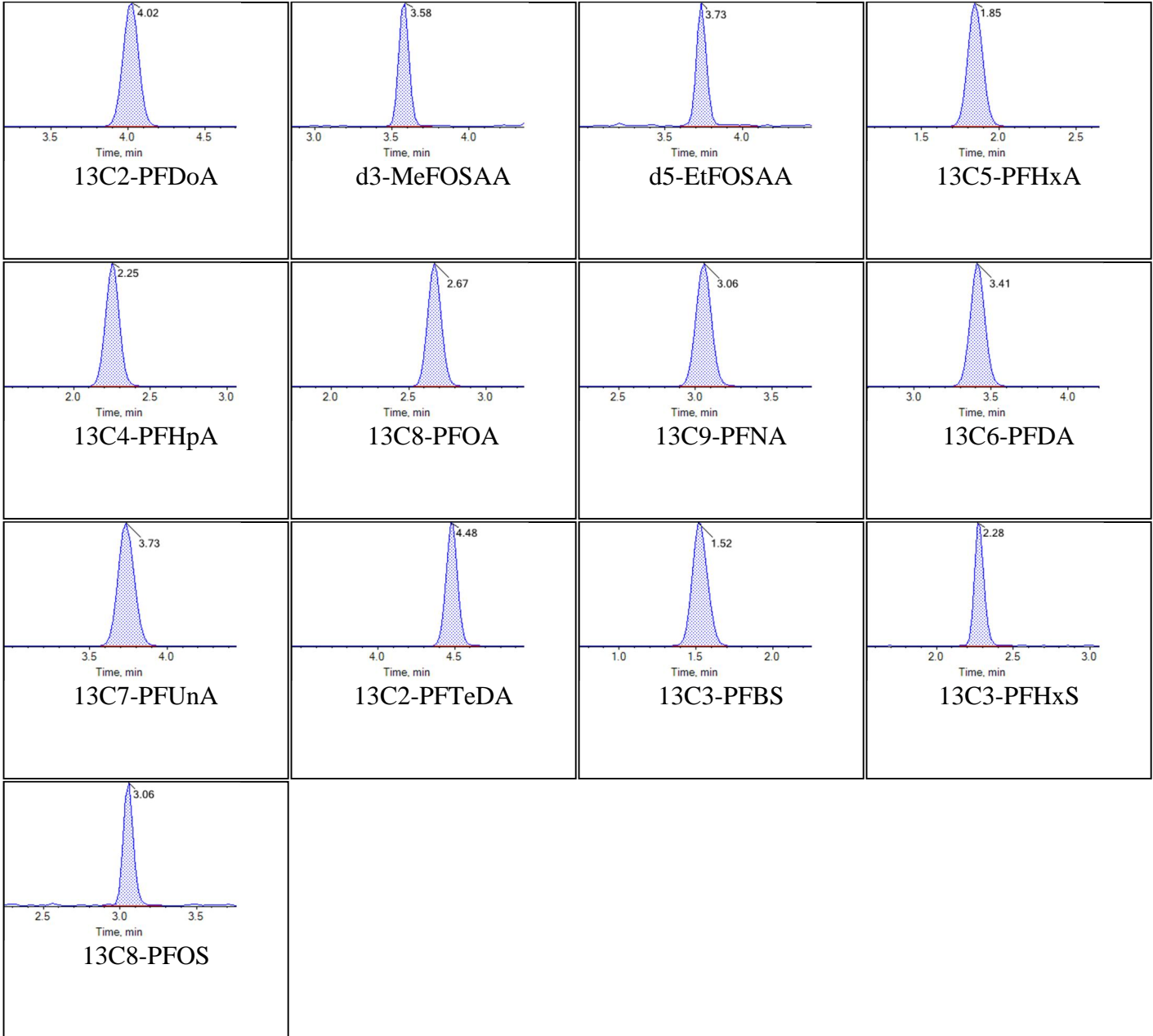
Chromatogram Report

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Internal Standards:

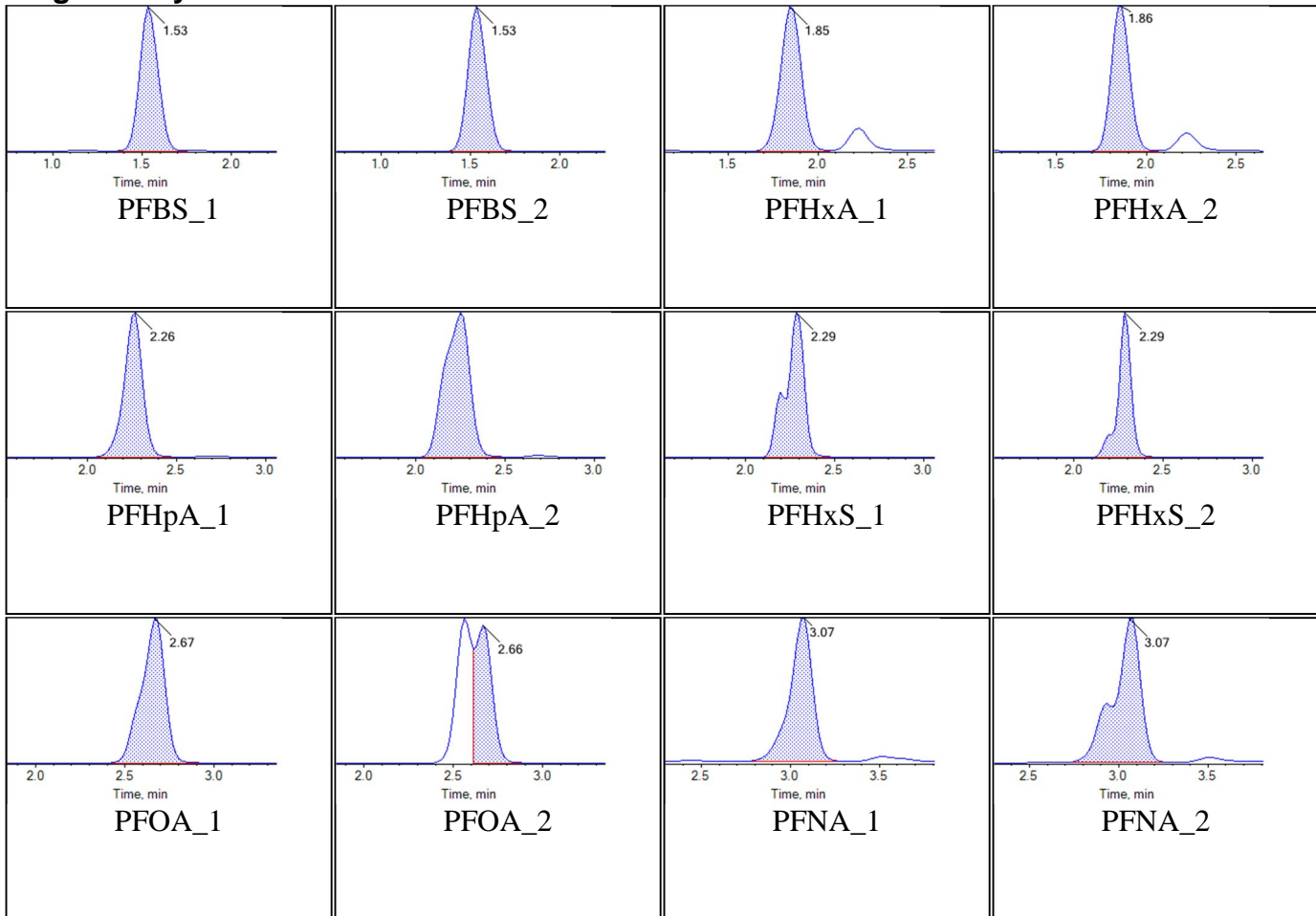




<b>Sample Name</b>	J8481-FS(0)	<b>Injection Vial</b>	26
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:05:48	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

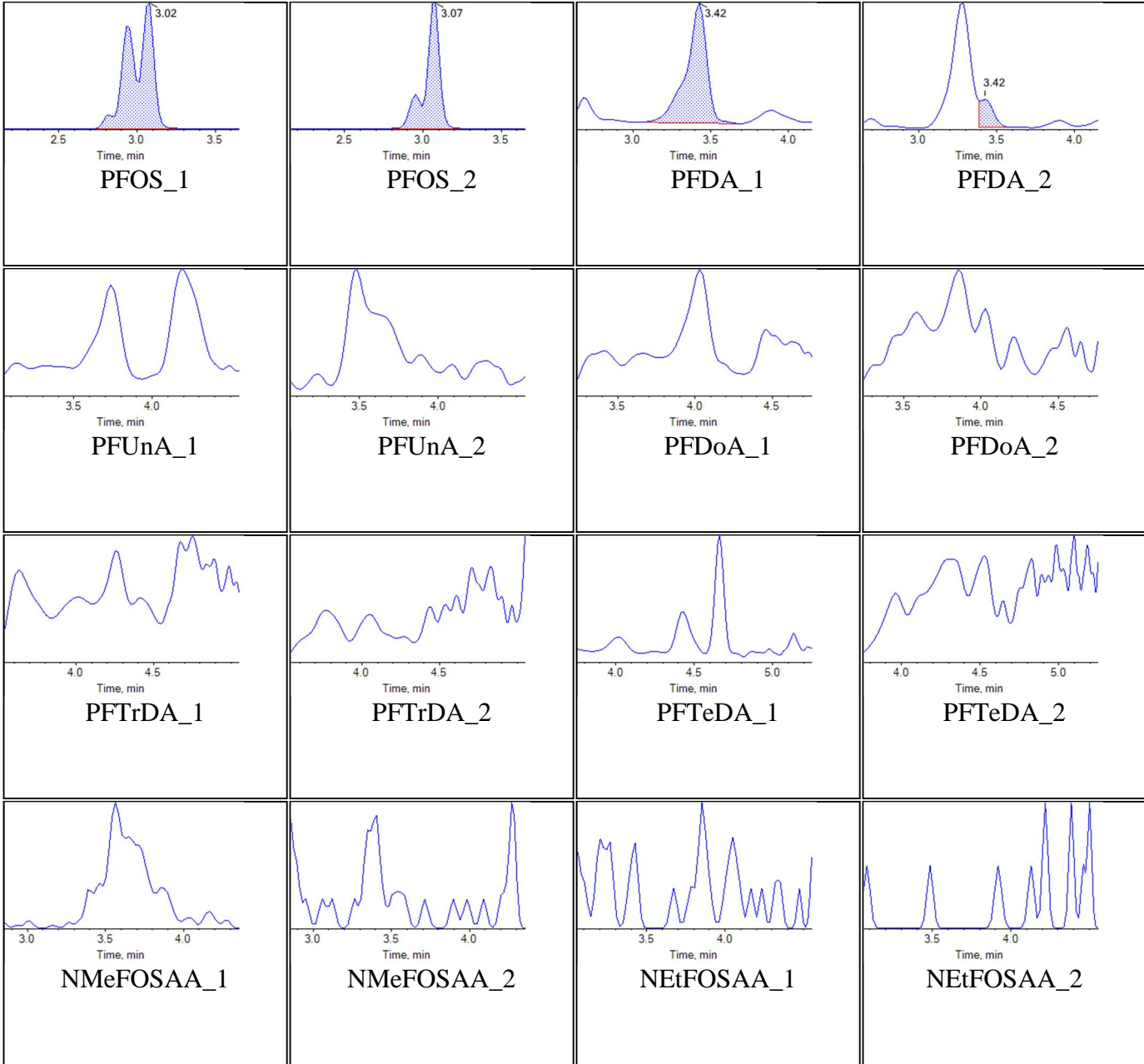
### Target Analytes:



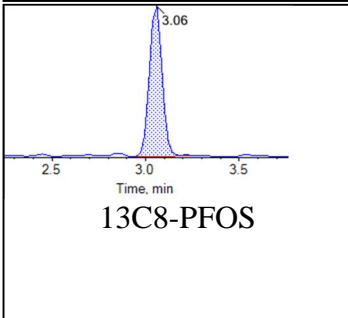
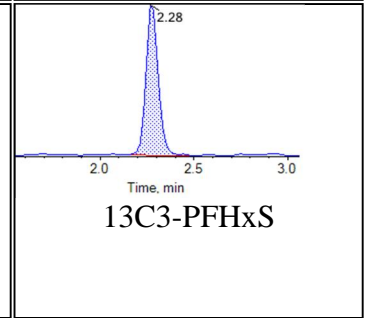
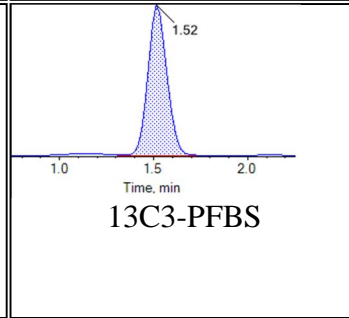
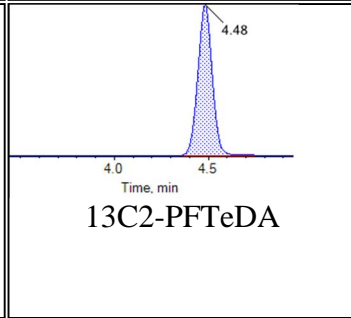
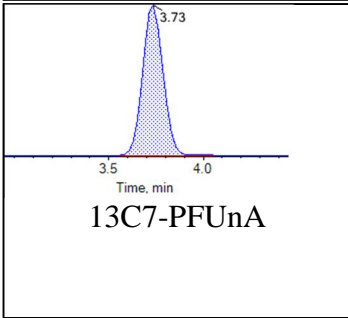
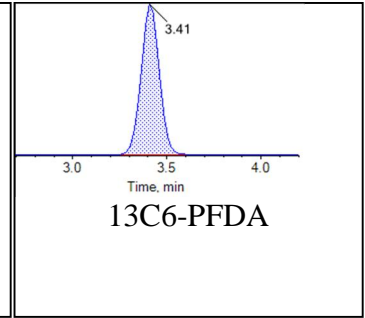
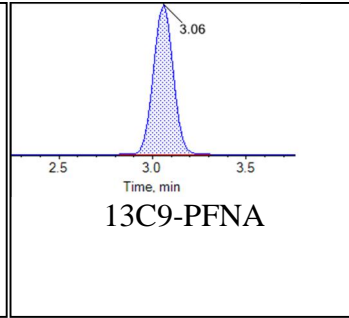
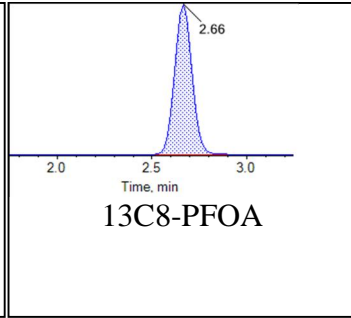
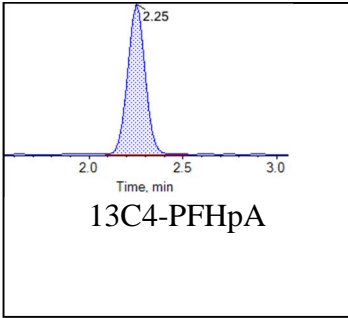
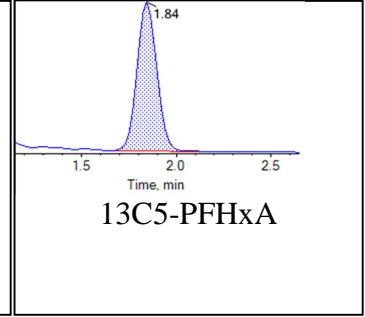
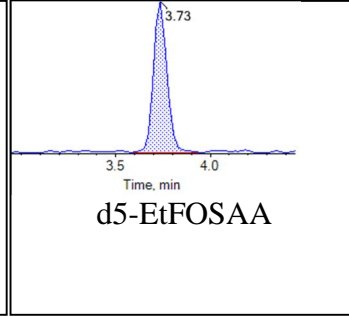
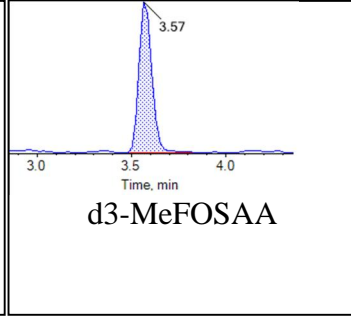
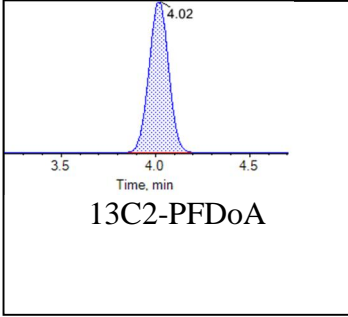


Chromatogram Report

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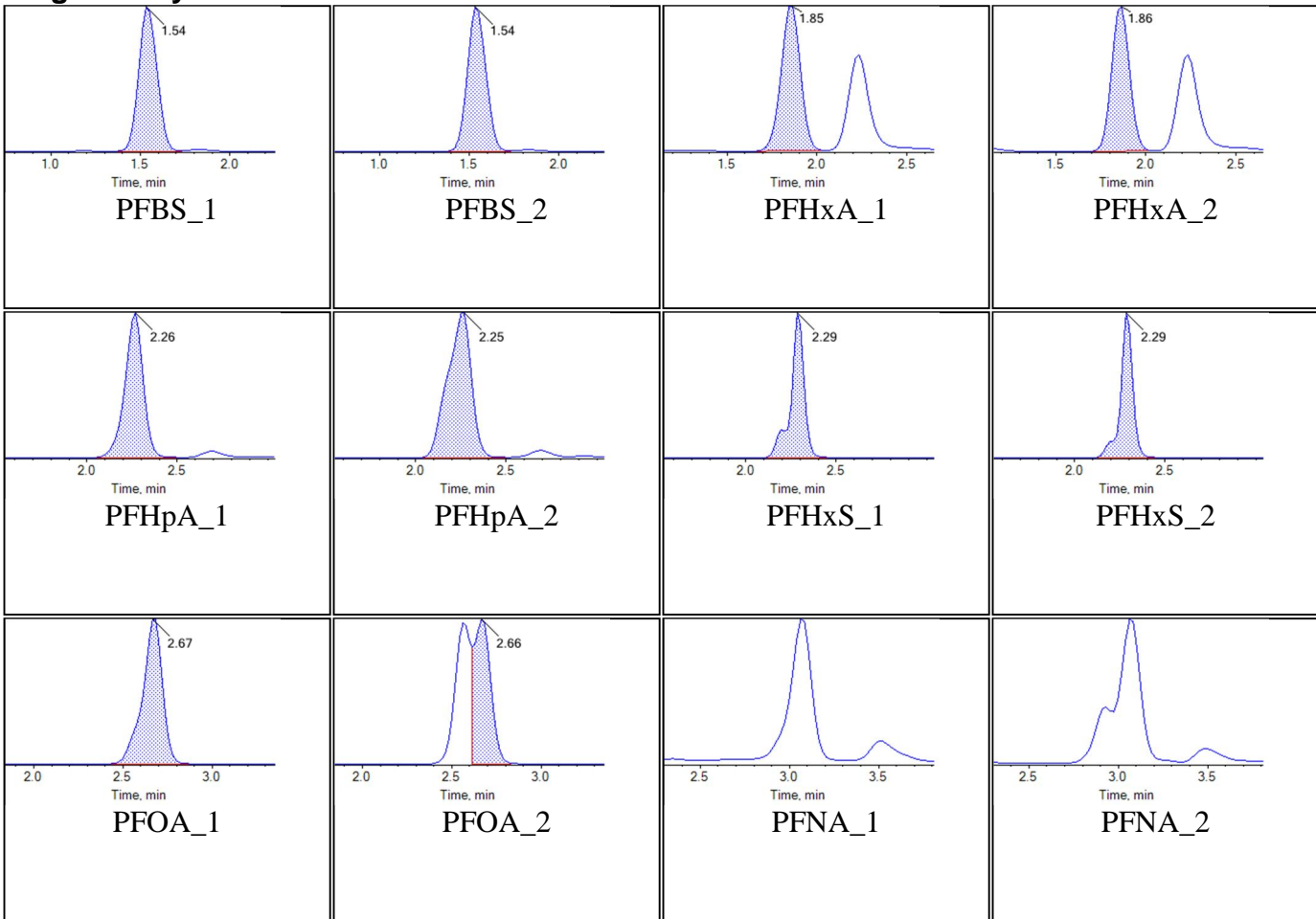
Internal Standards:



<b>Sample Name</b>	J8481-FS-D(3)	<b>Injection Vial</b>	27
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:16:41	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

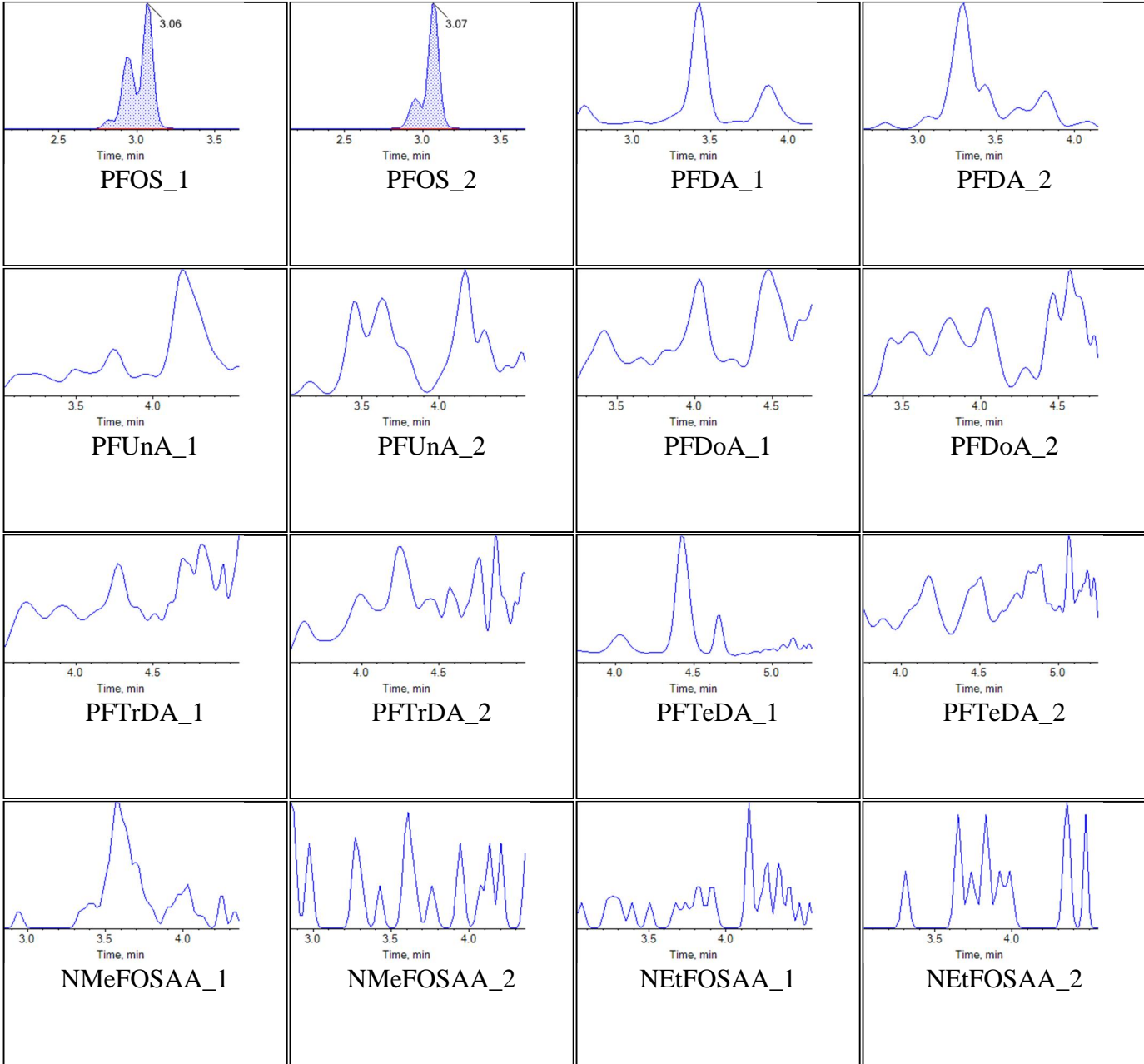
### Target Analytes:



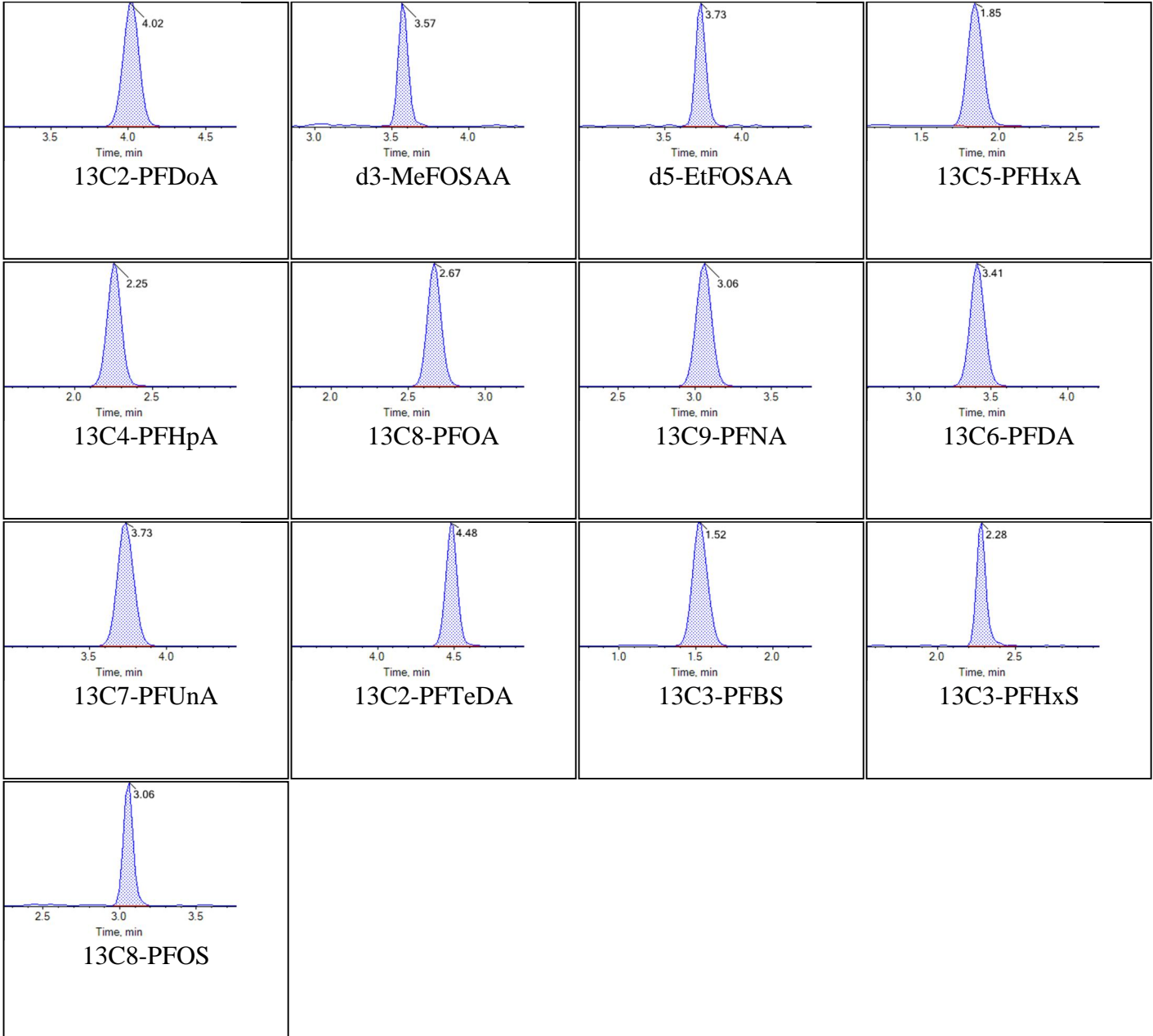


Chromatogram Report

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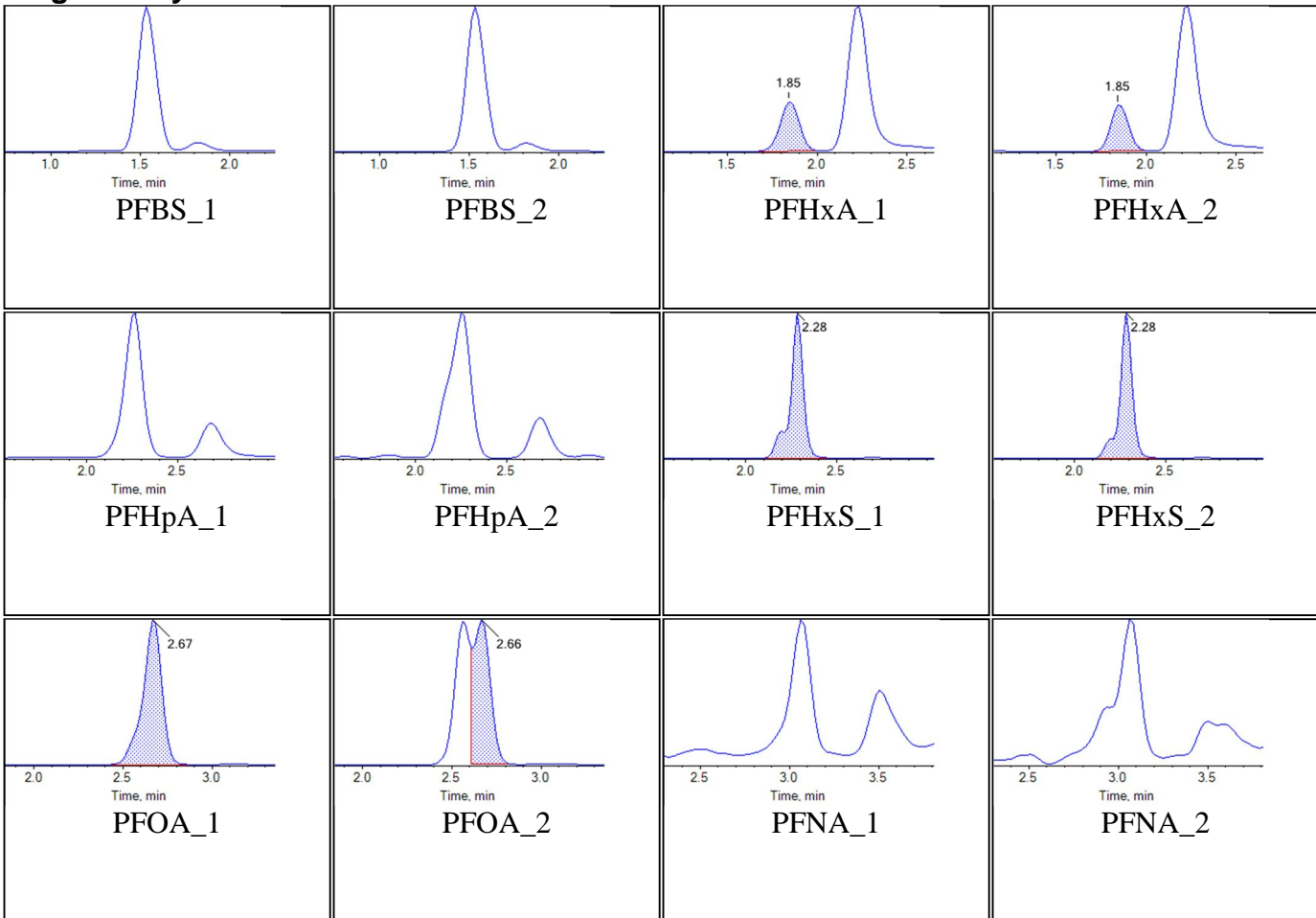
Internal Standards:



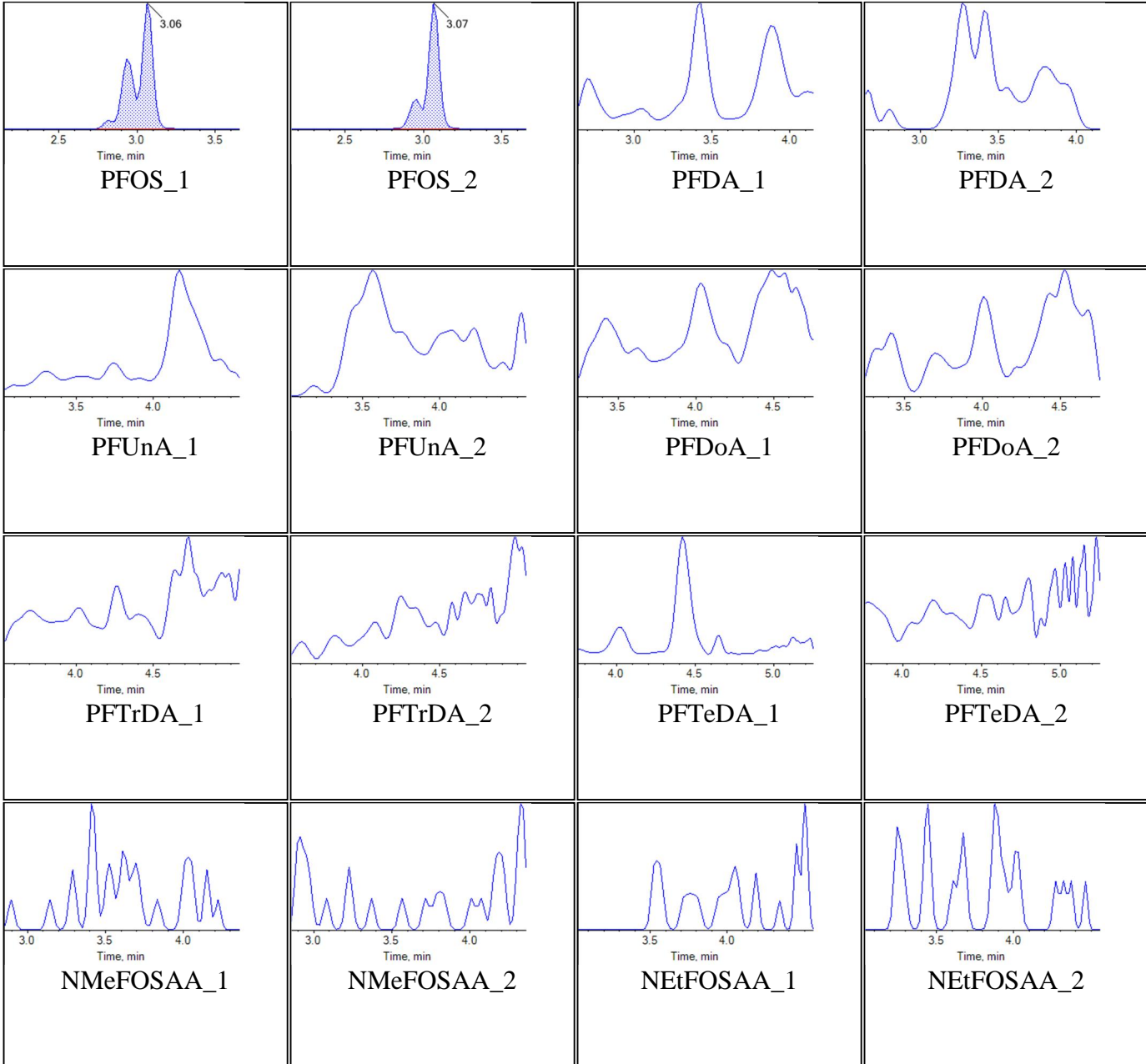
<b>Sample Name</b>	J8481-FS-D(5)	<b>Injection Vial</b>	28
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:27:34	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

## Chromatograms

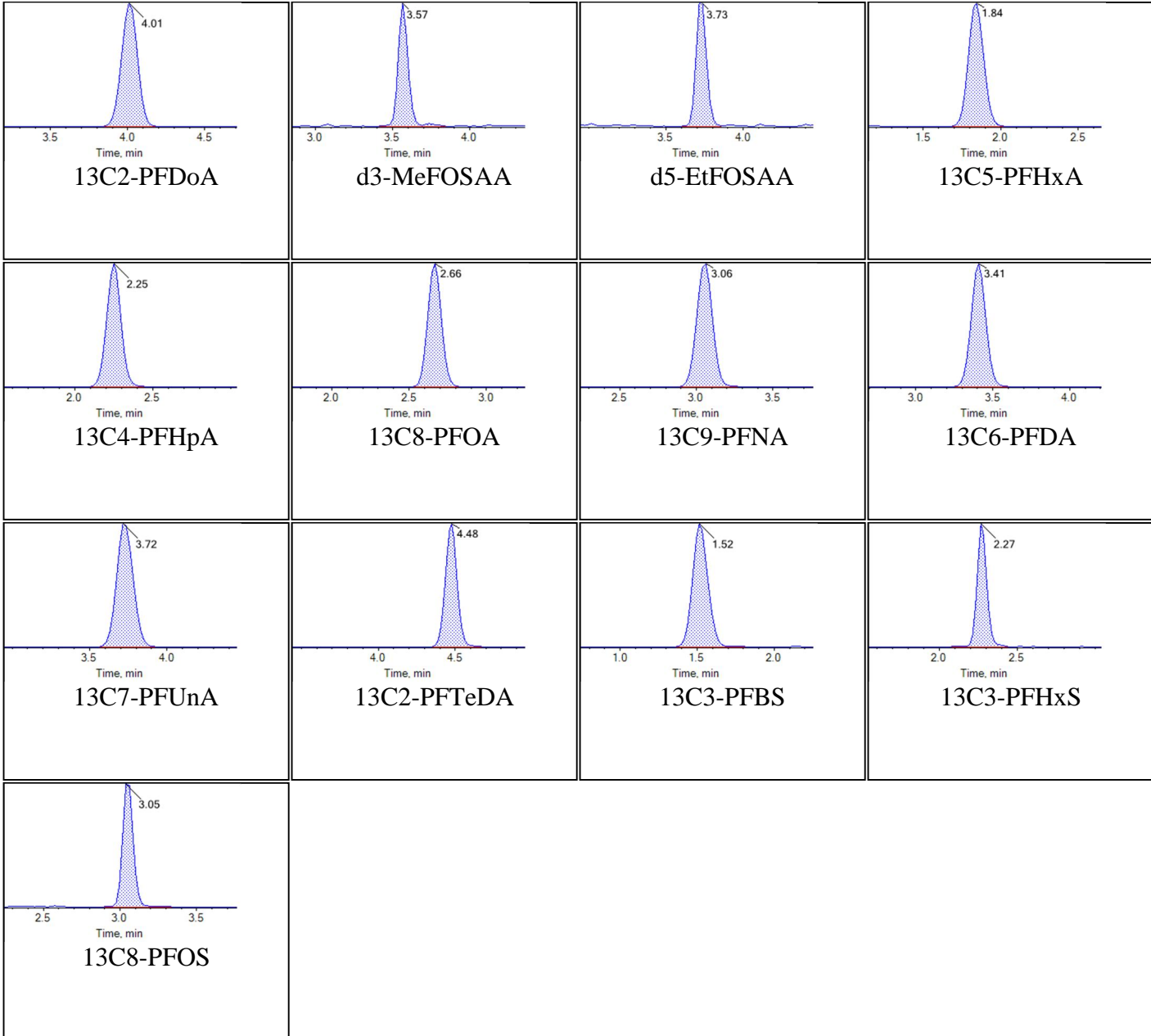
### Target Analytes:







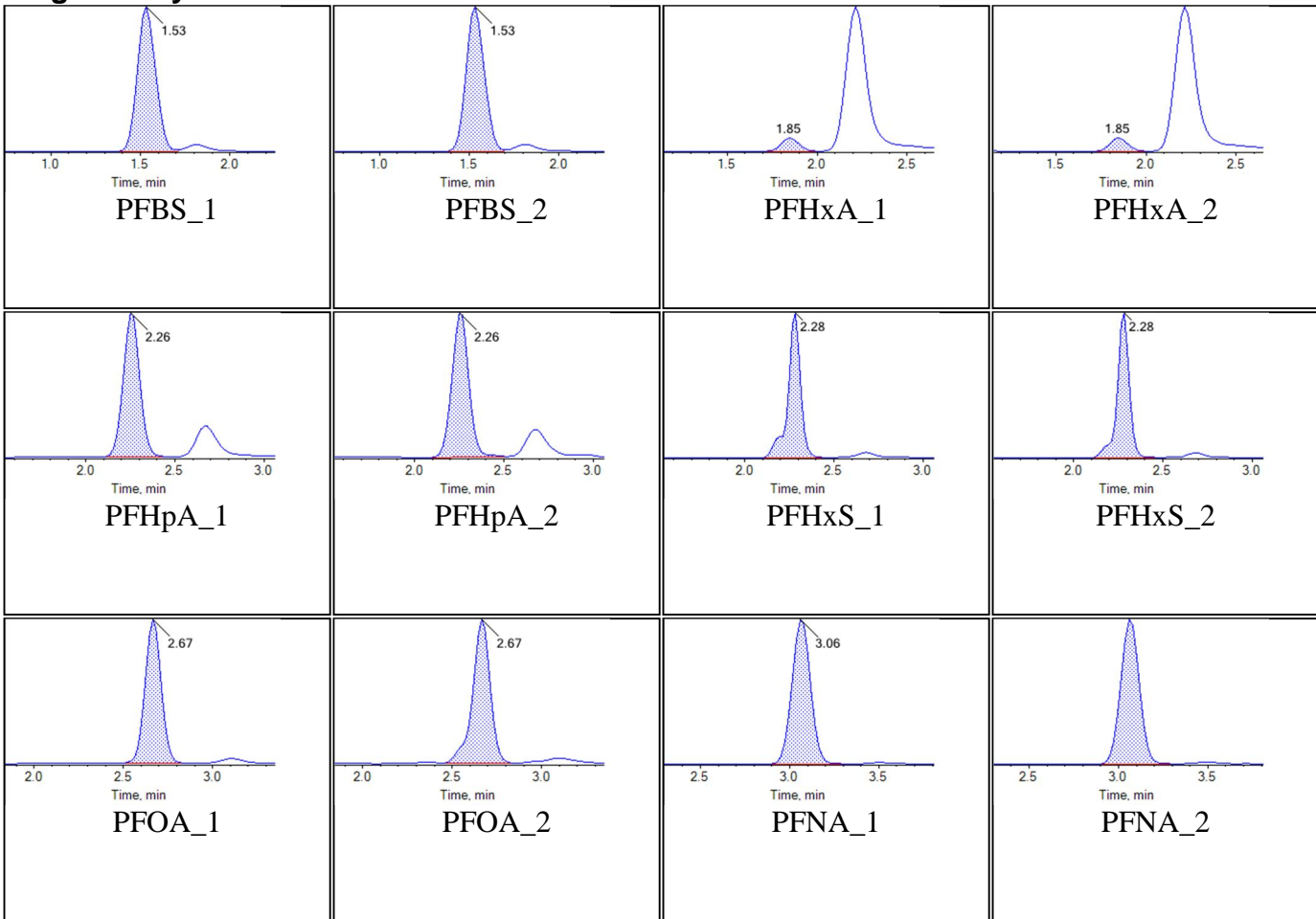
Internal Standards:

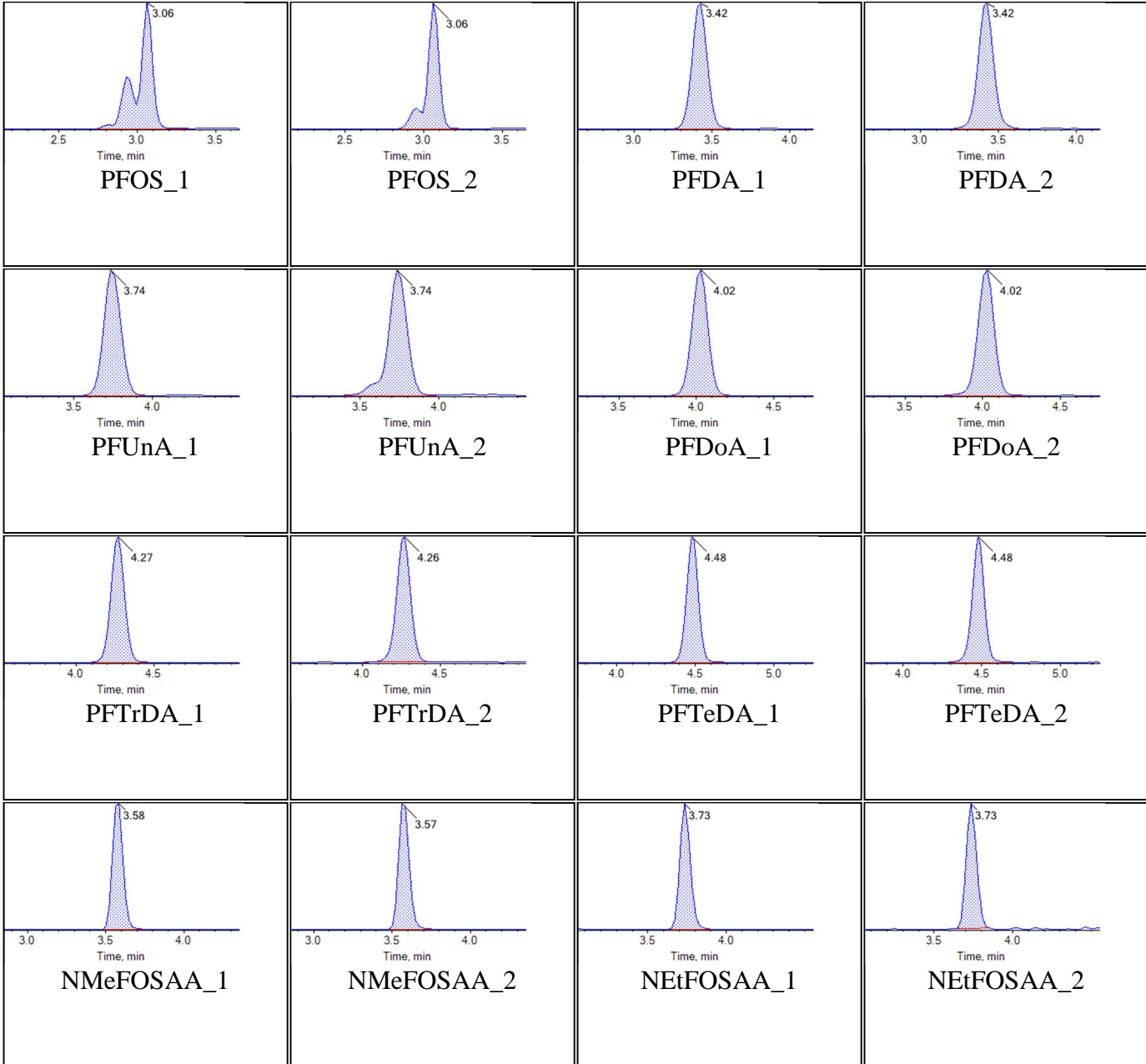


<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	29
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:38:28	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

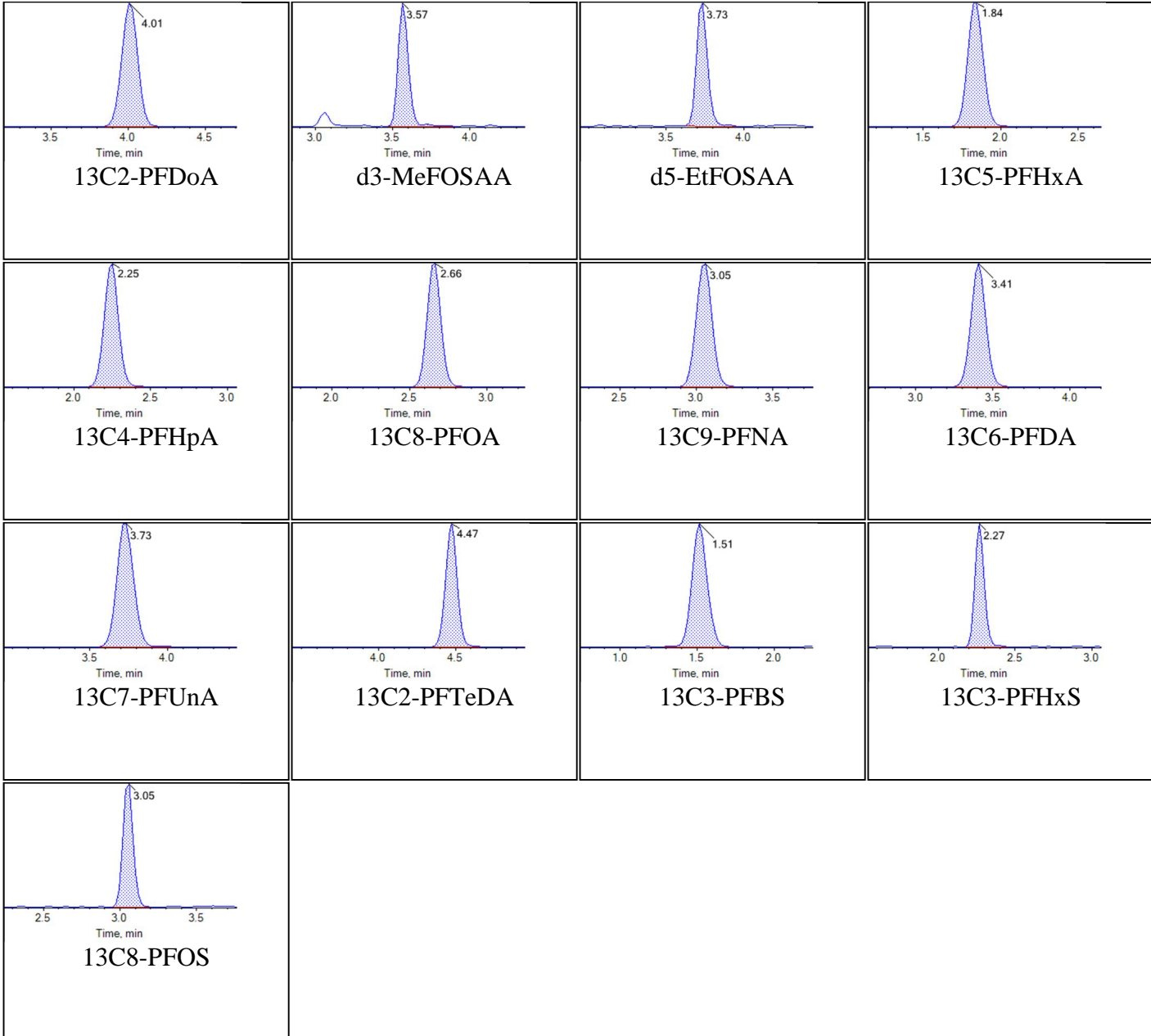
## Chromatograms

### Target Analytes:





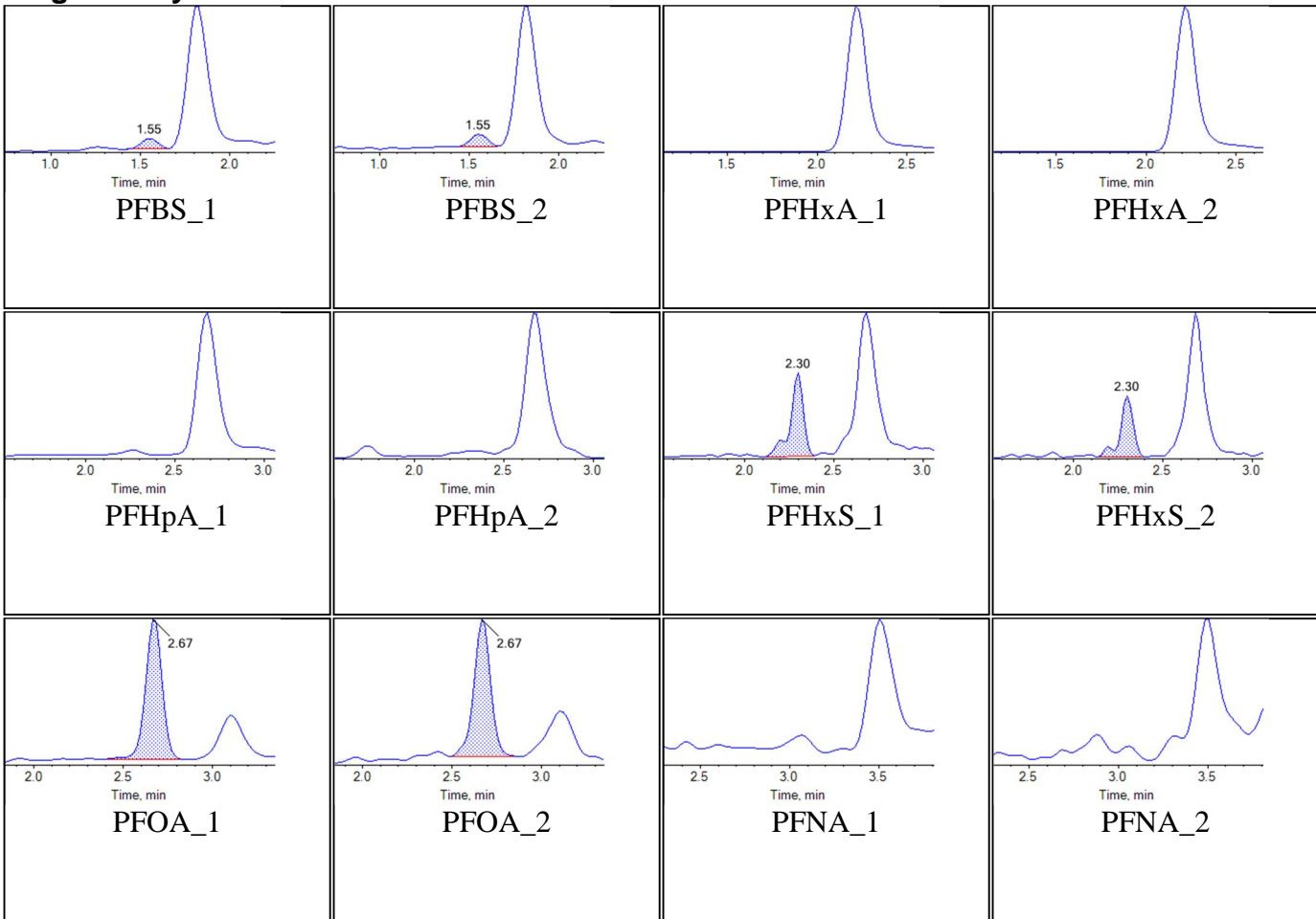
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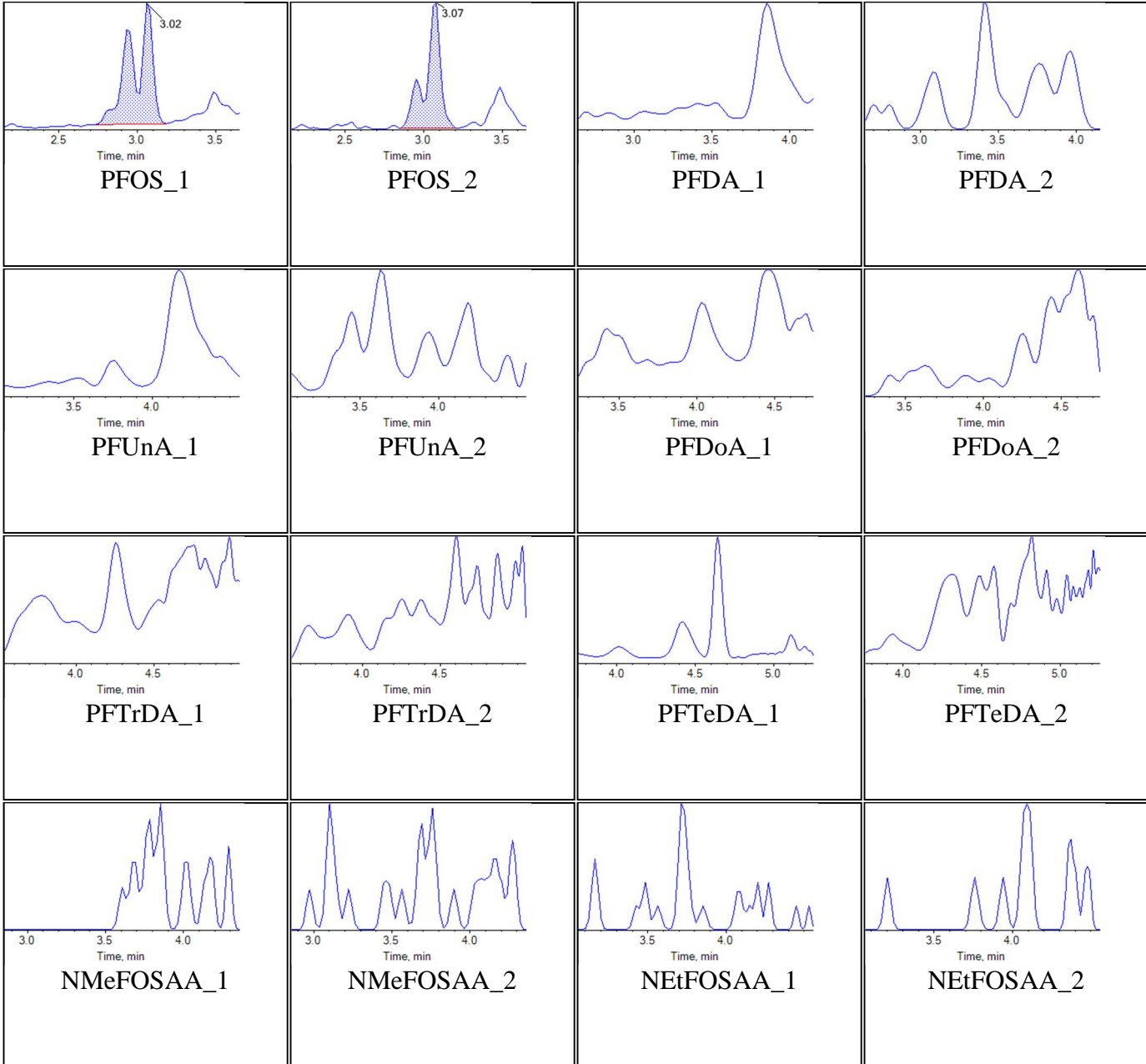


<b>Sample Name</b>	J8482-FS(0)	<b>Injection Vial</b>	31
<b>Sample ID</b>	VC-AQ-FB08-09272018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:00:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

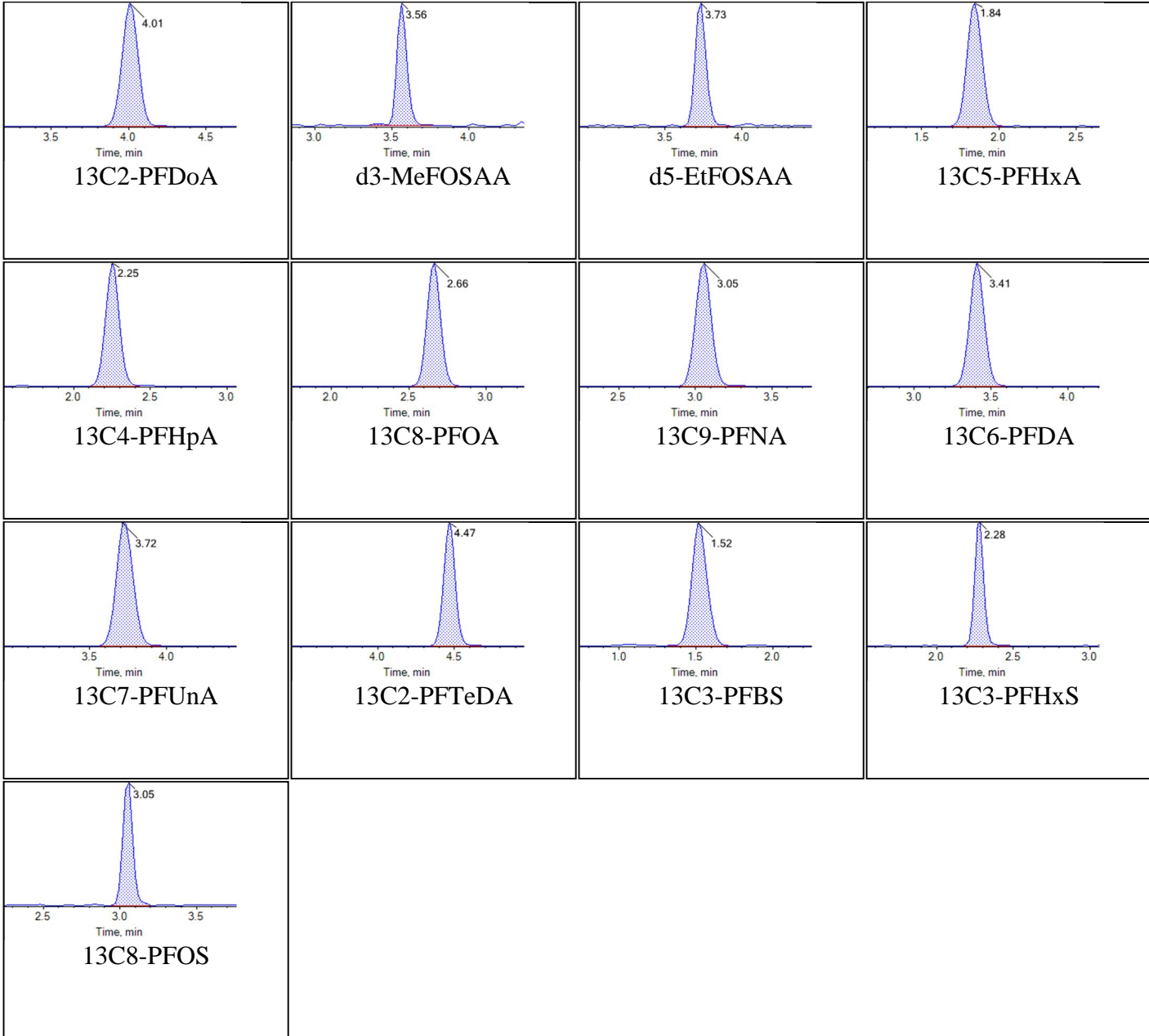
## Chromatograms

### Target Analytes:





Internal Standards:

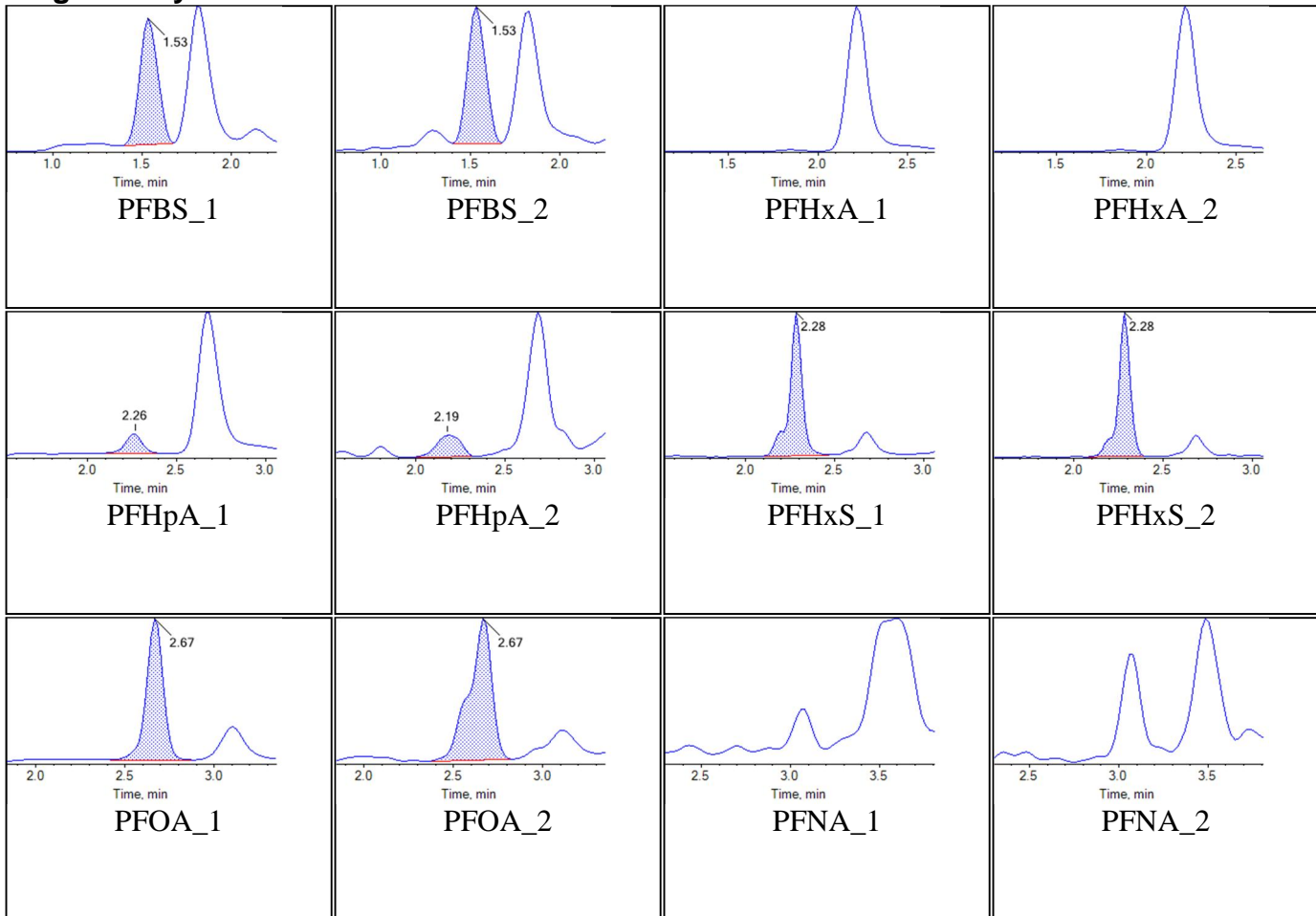


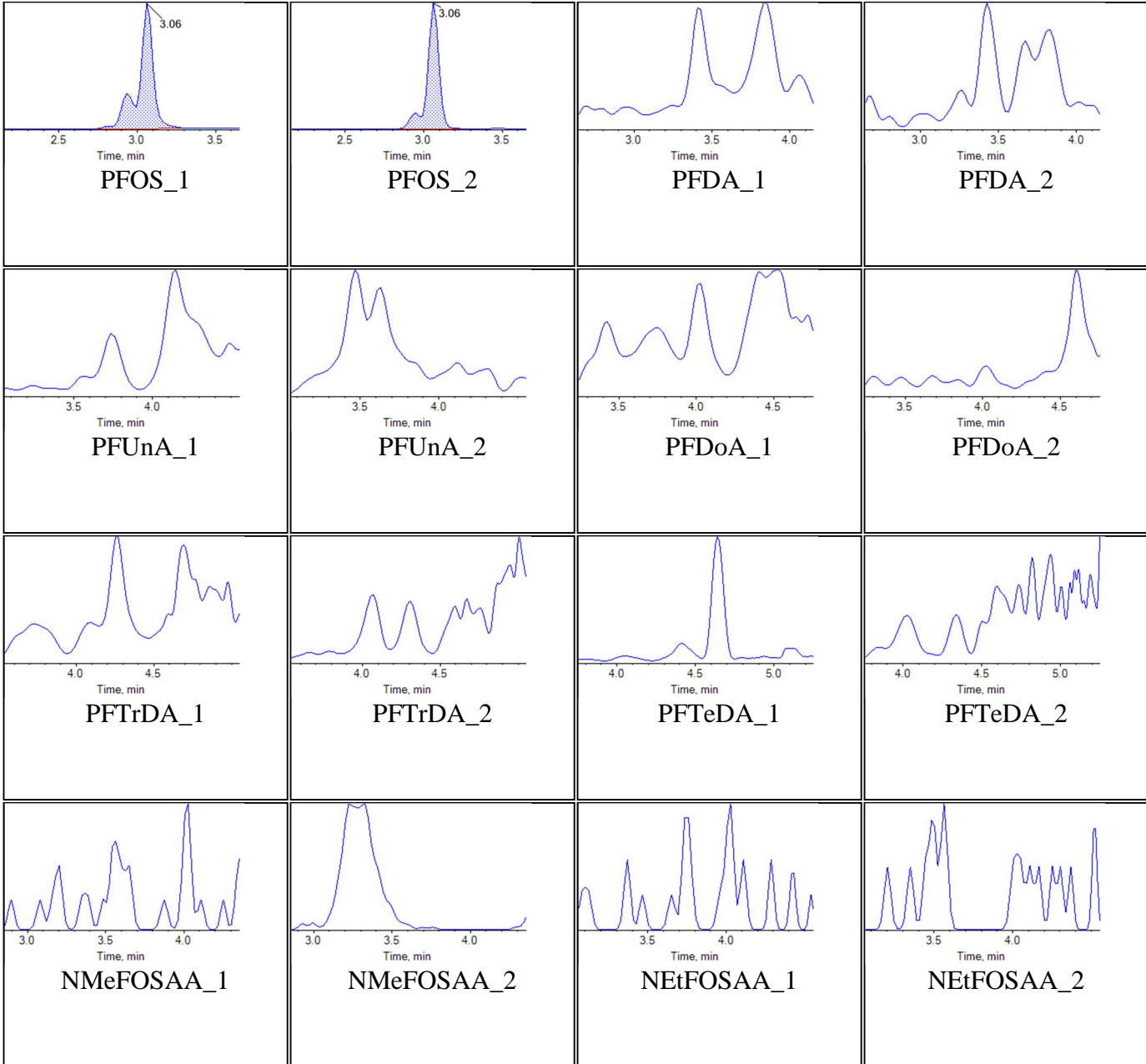


<b>Sample Name</b>	J8483-FS(0)	<b>Injection Vial</b>	32
<b>Sample ID</b>	VC-AQ-EB08-09272018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:11:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

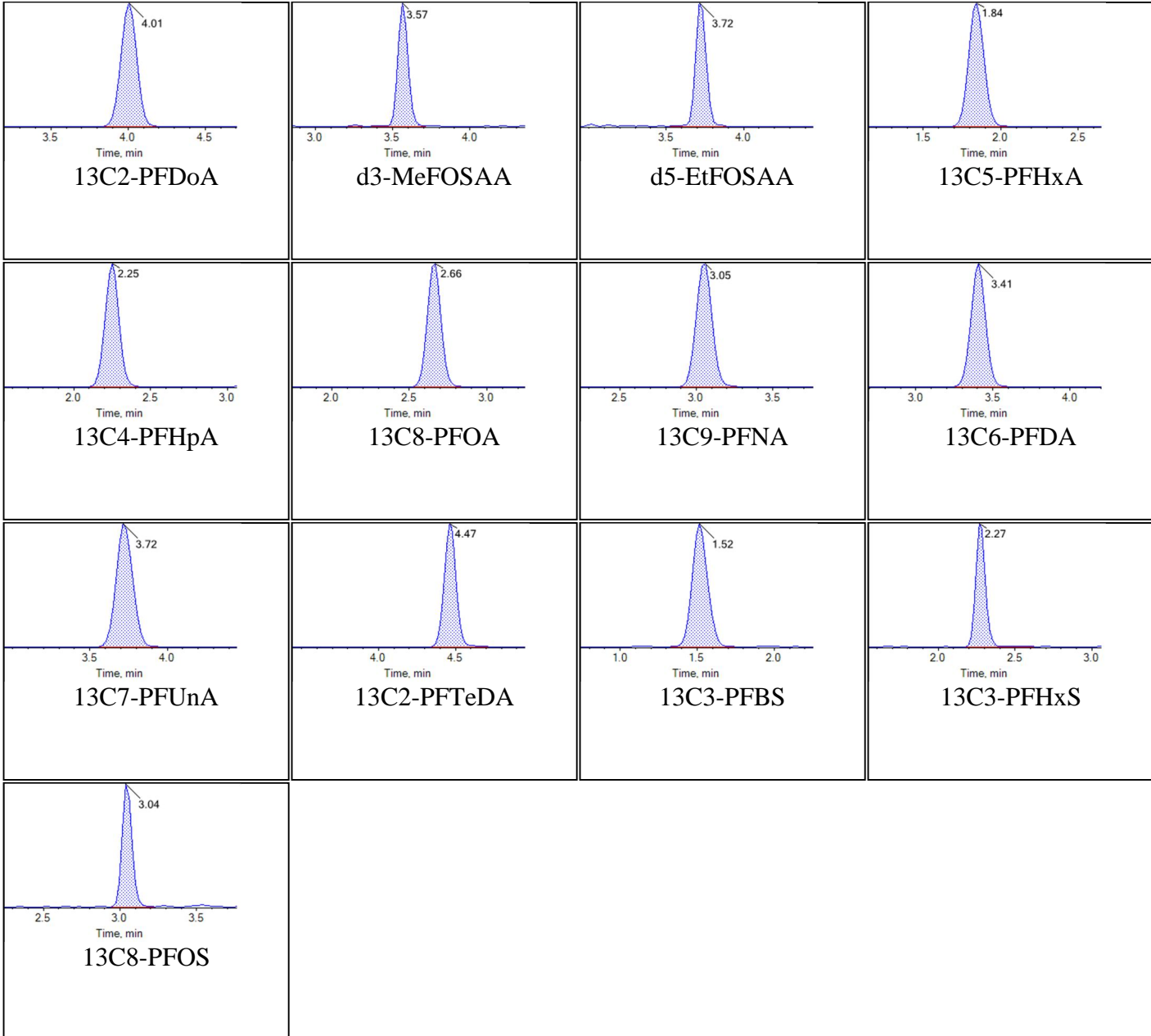
## Chromatograms

### Target Analytes:





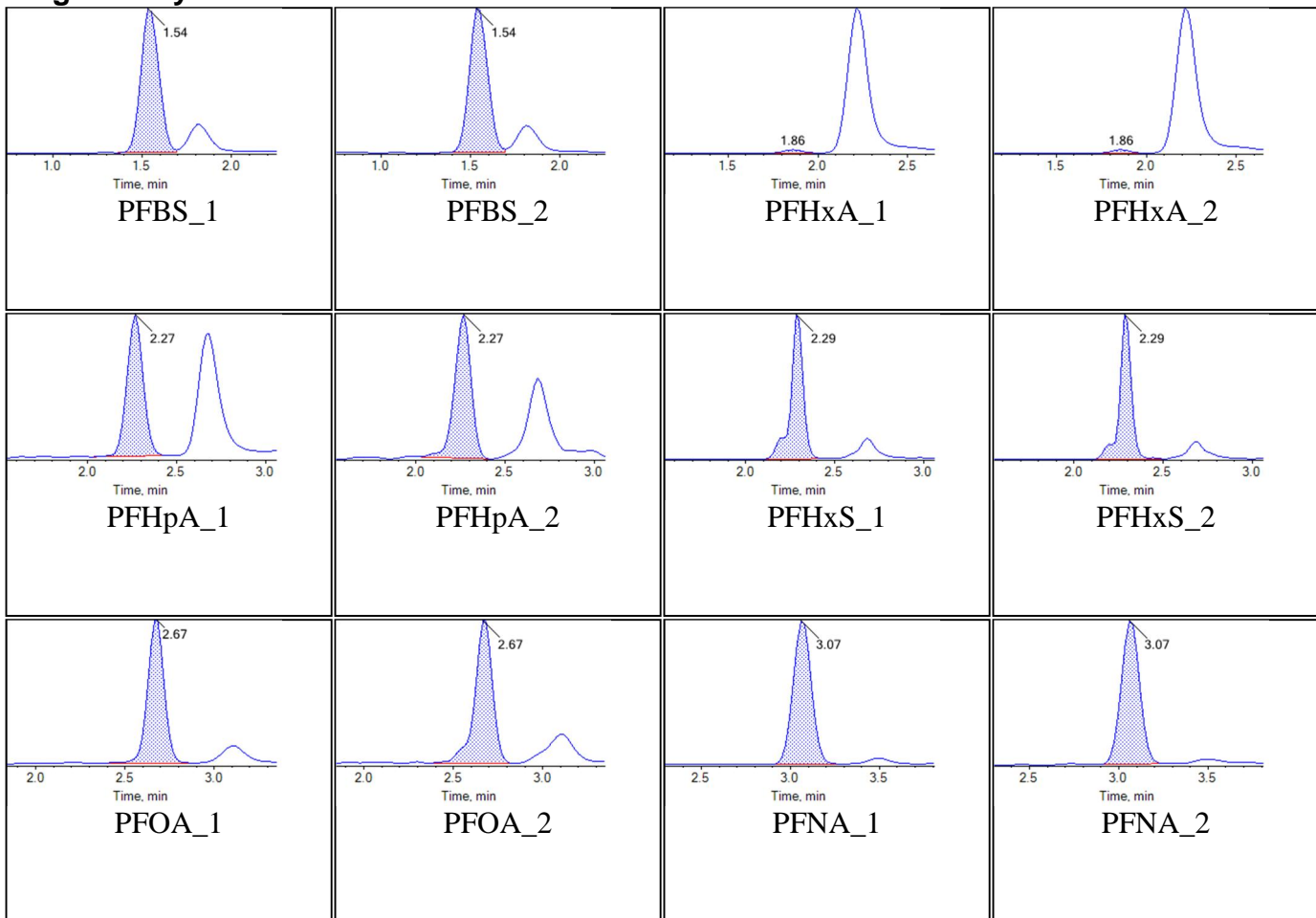
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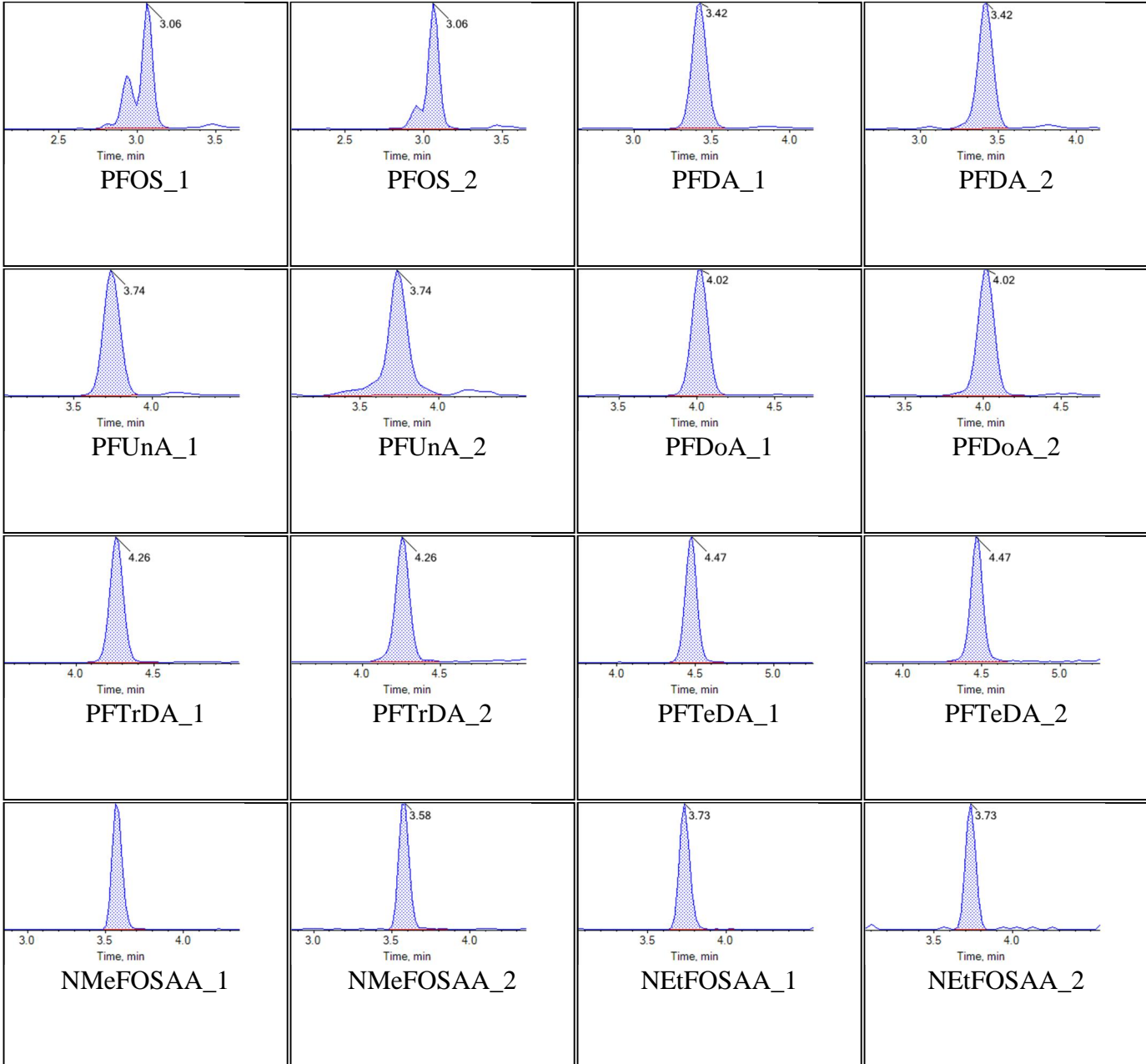


<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	33
<b>Sample ID</b>	CCCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:22:00	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_BASE
<b>Sample Comment</b>			

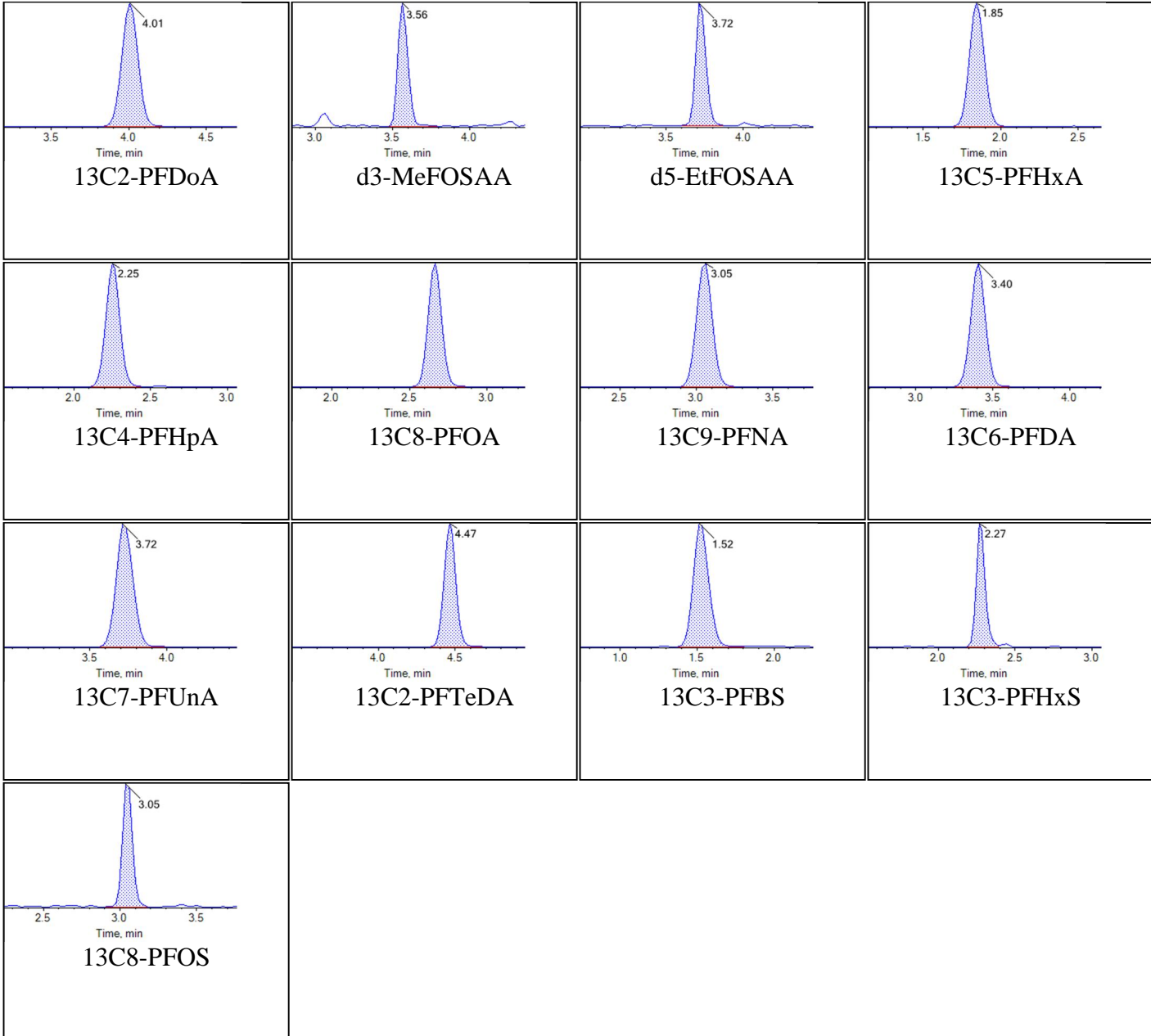
## Chromatograms

### Target Analytes:





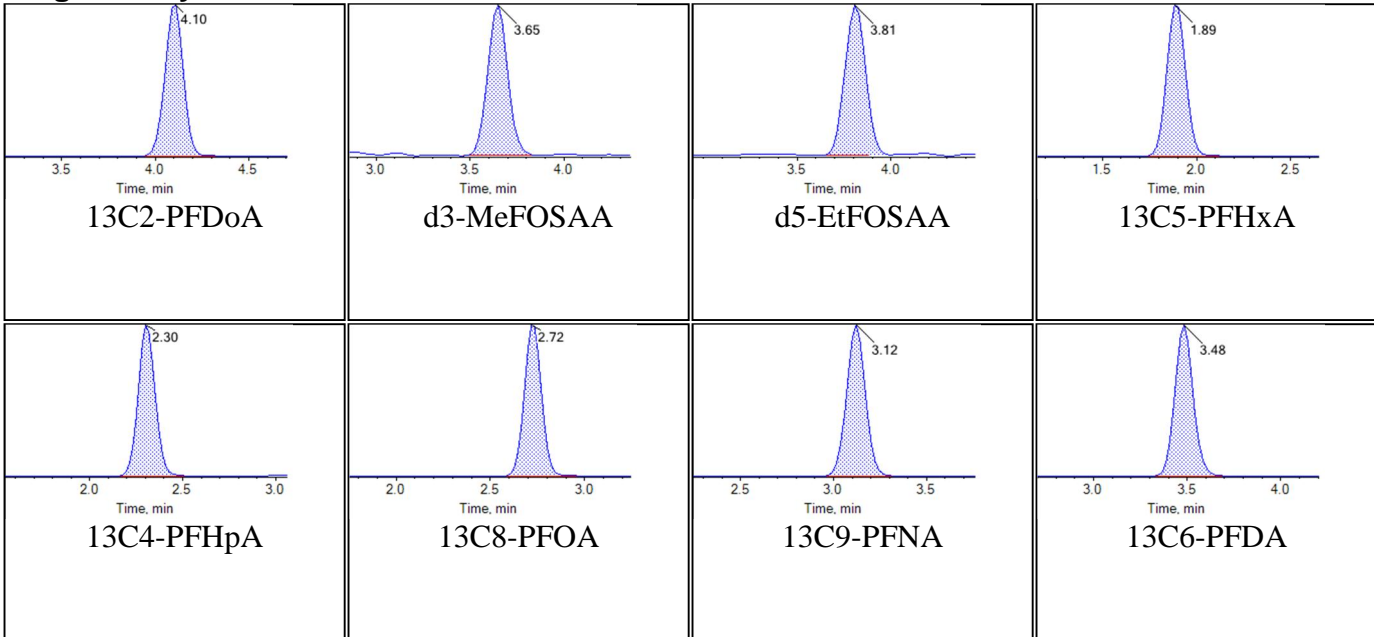
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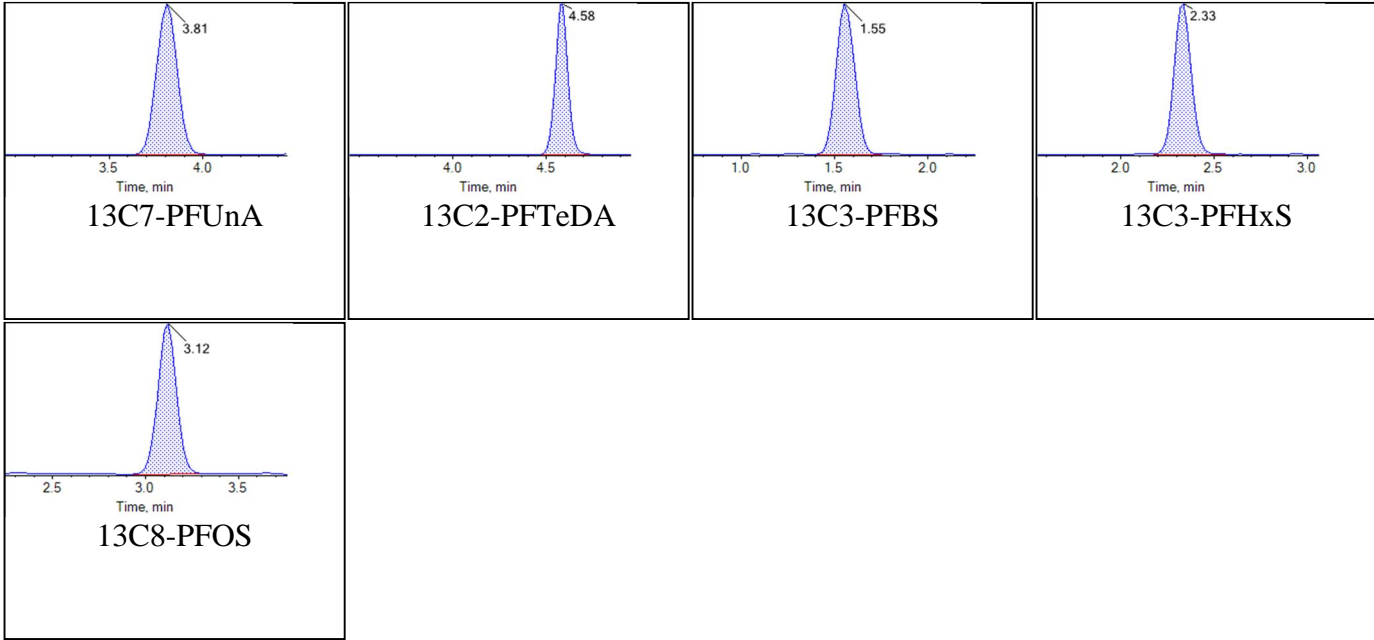


Sample Name	KB73	Injection Vial	2
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T19:46:52	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

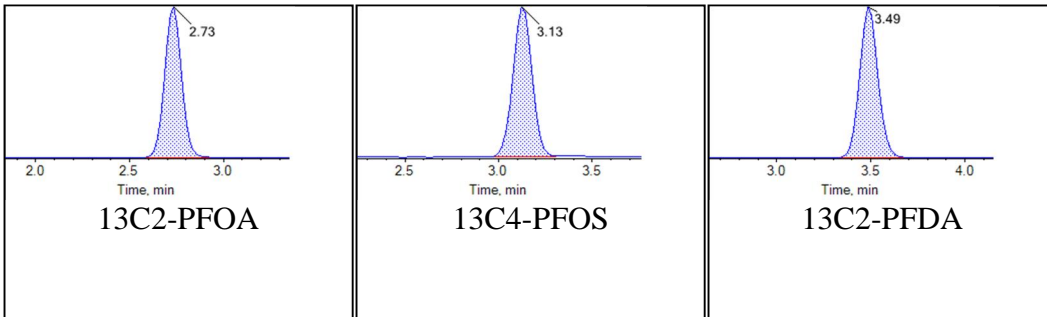
## Chromatograms

### Target Analytes:





### Internal Standards:

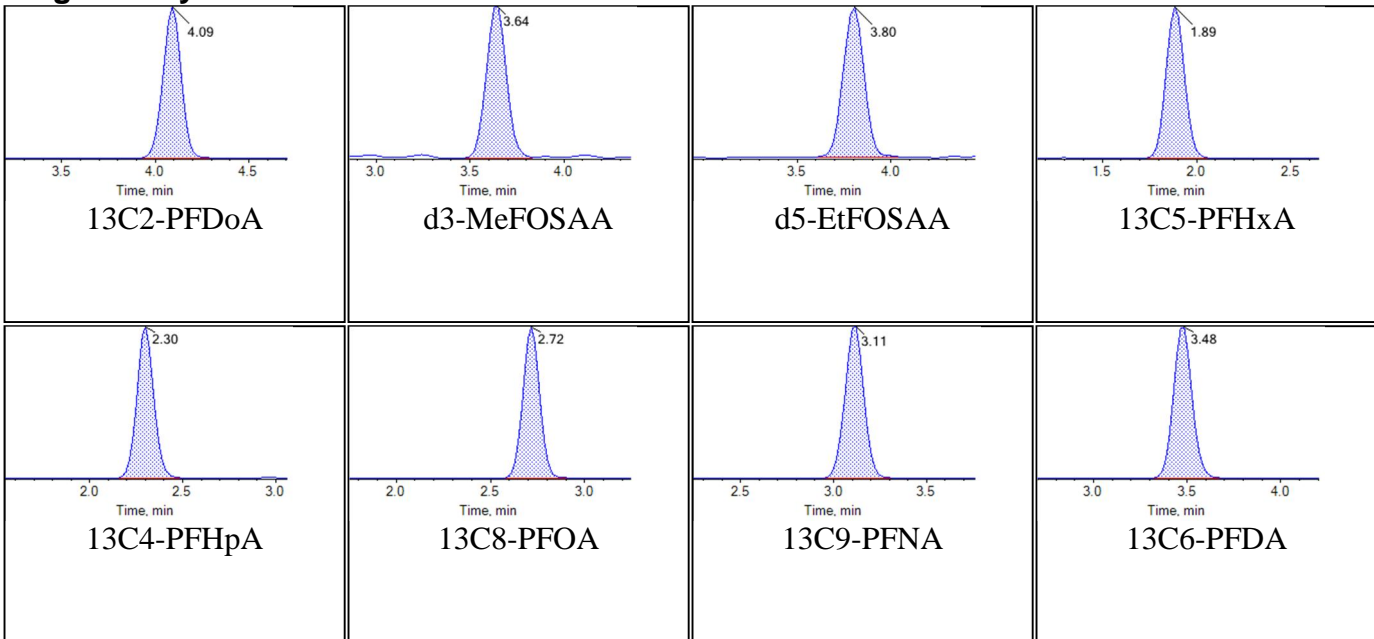


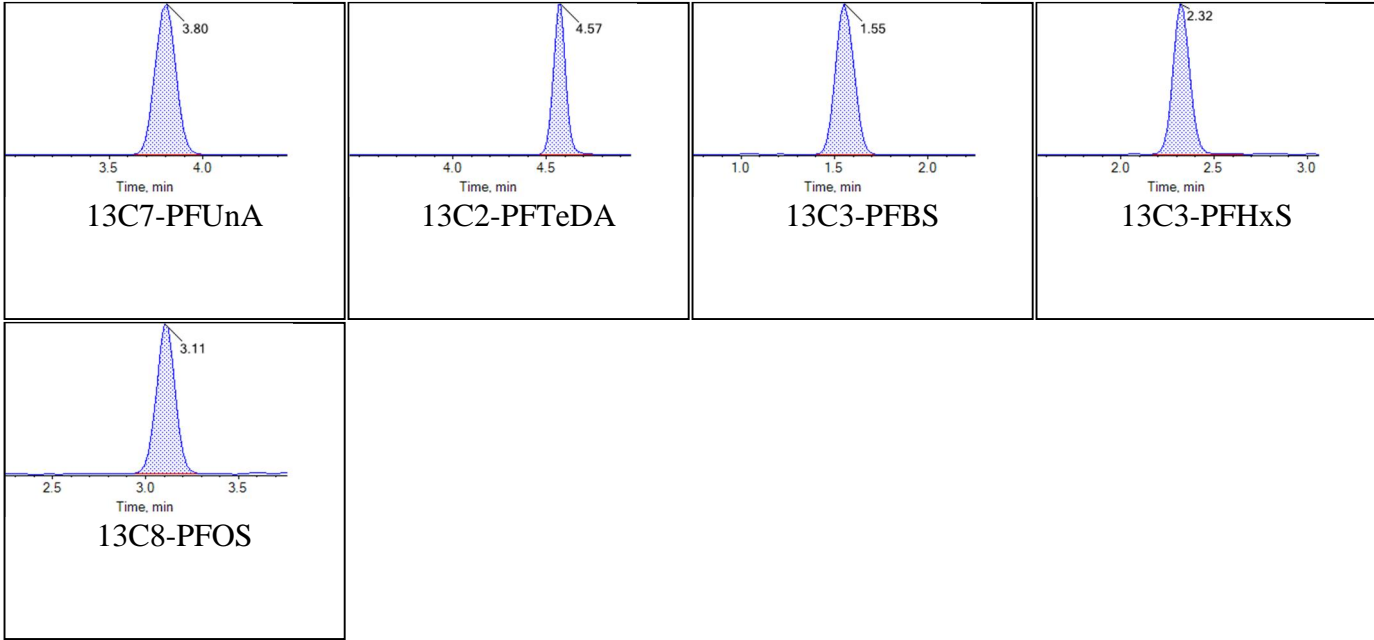


<b>Sample Name</b>	KB74	<b>Injection Vial</b>	3
<b>Sample ID</b>	L2	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:57:45	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

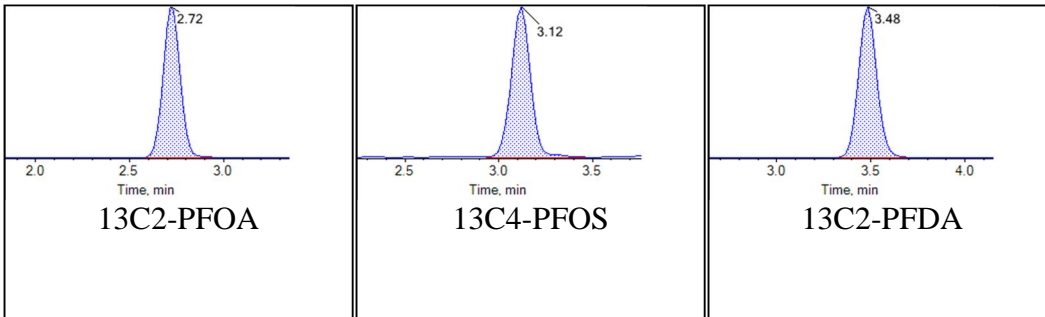
## Chromatograms

### Target Analytes:





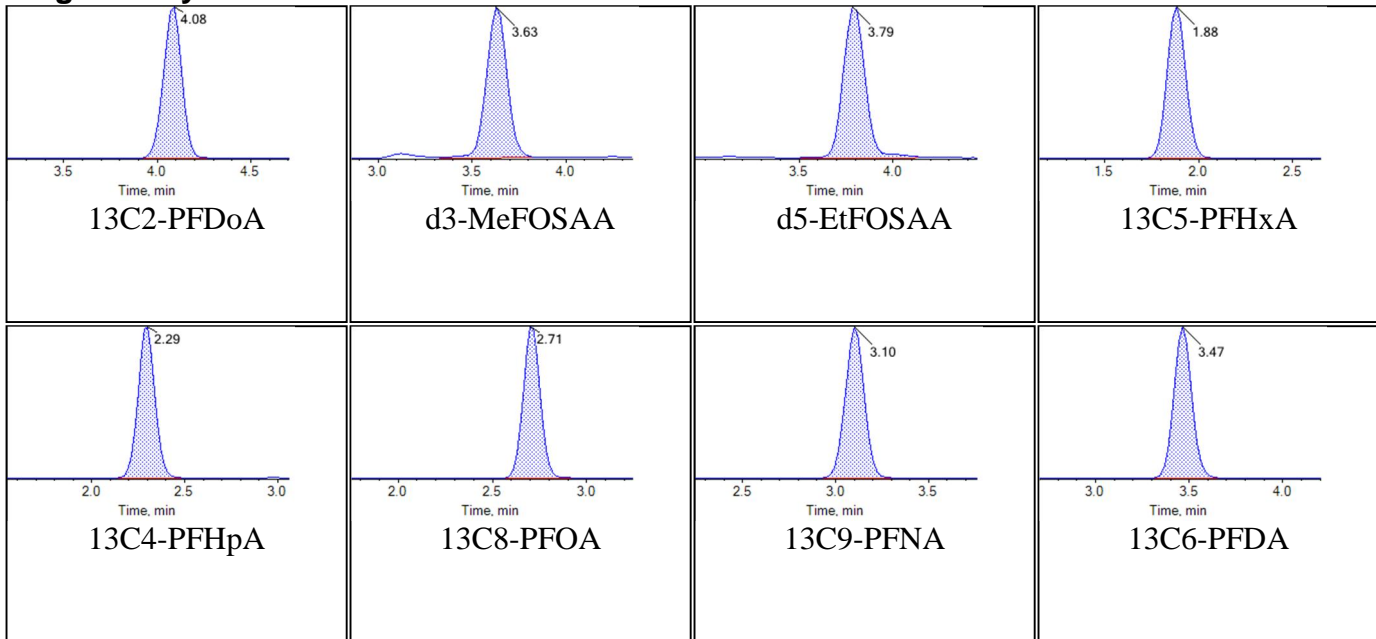
### Internal Standards:

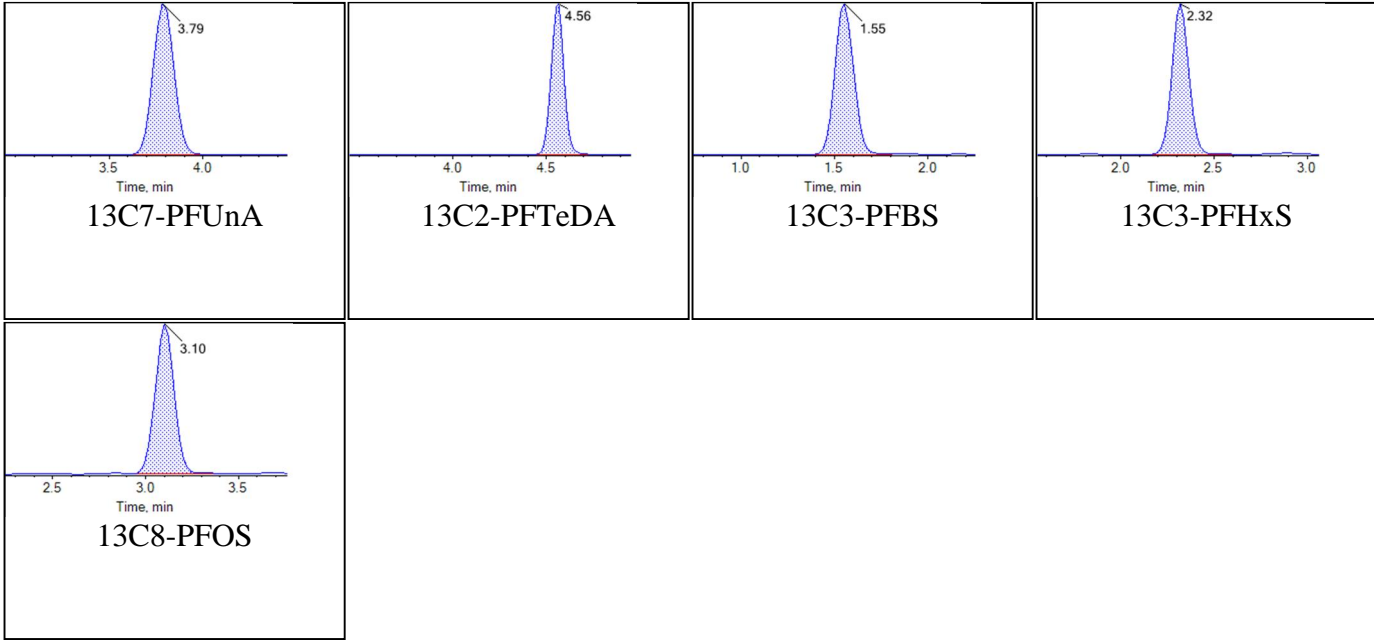


<b>Sample Name</b>	KB75	<b>Injection Vial</b>	4
<b>Sample ID</b>	L3	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:08:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

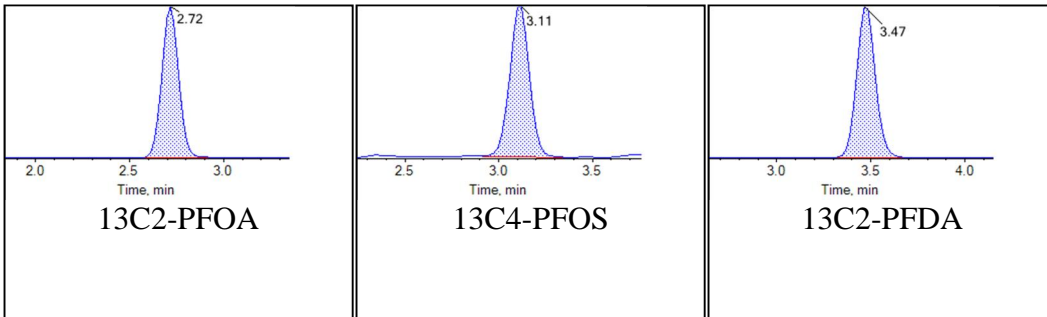
## Chromatograms

### Target Analytes:





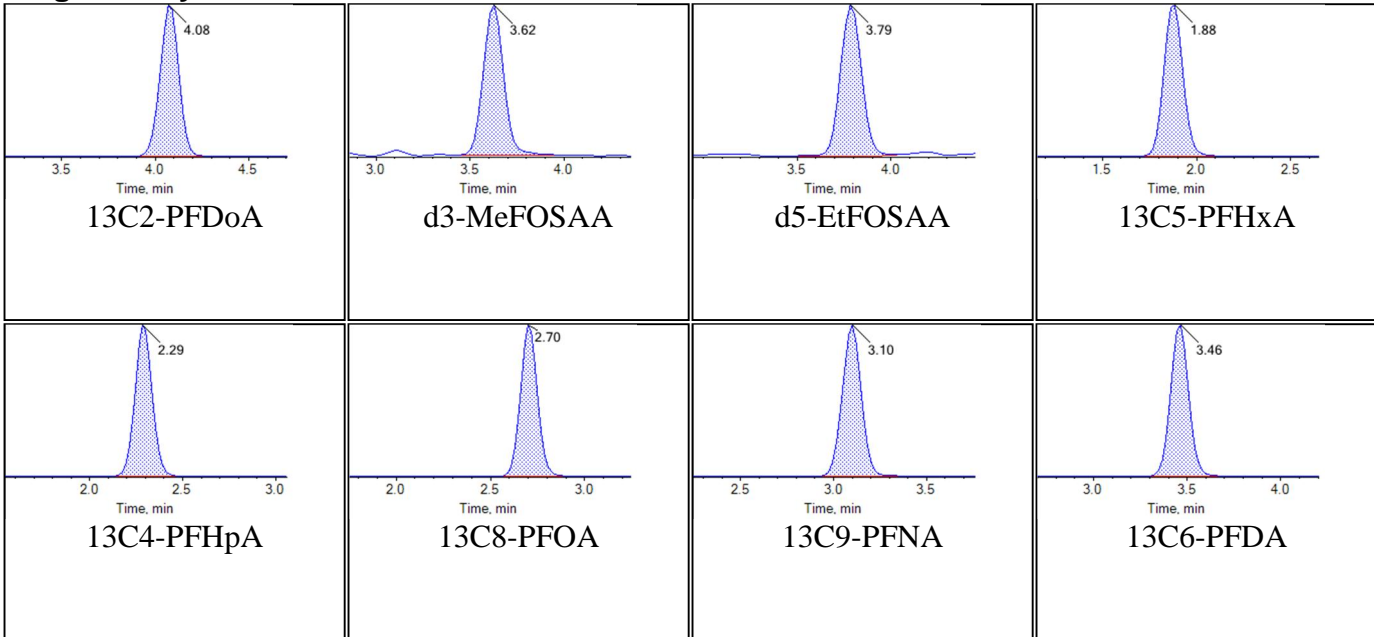
### Internal Standards:

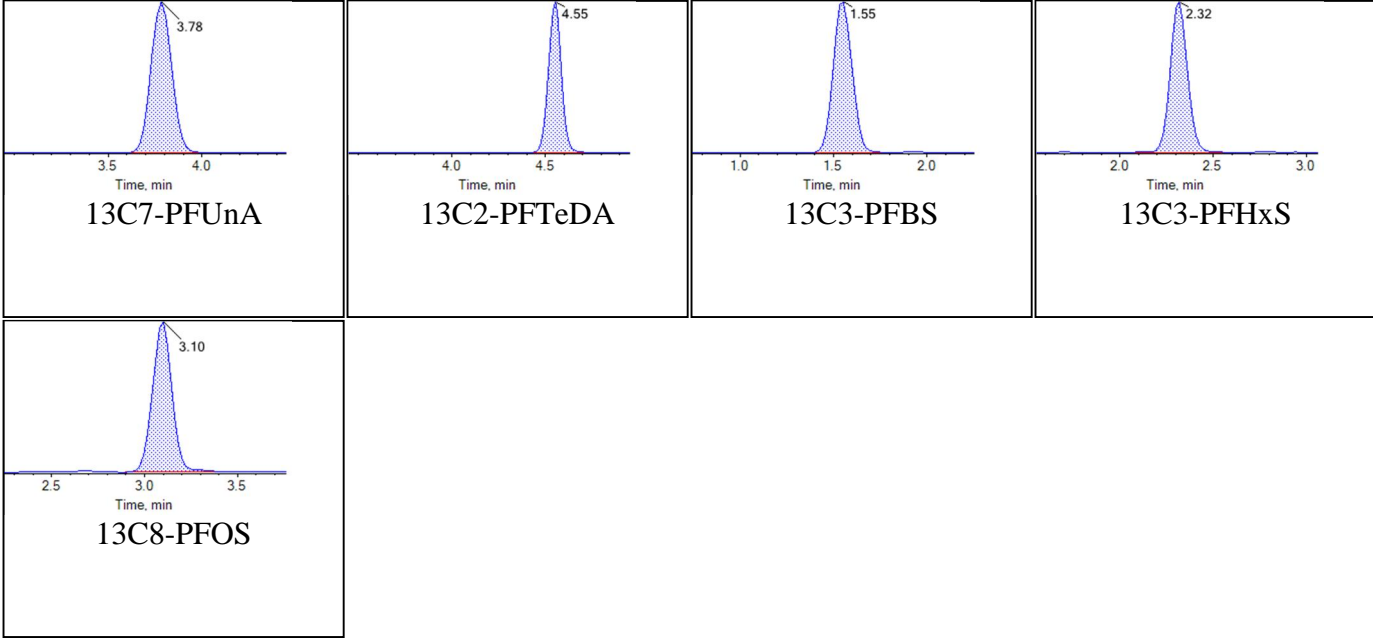


<b>Sample Name</b>	KB76	<b>Injection Vial</b>	5
<b>Sample ID</b>	L4	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:19:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

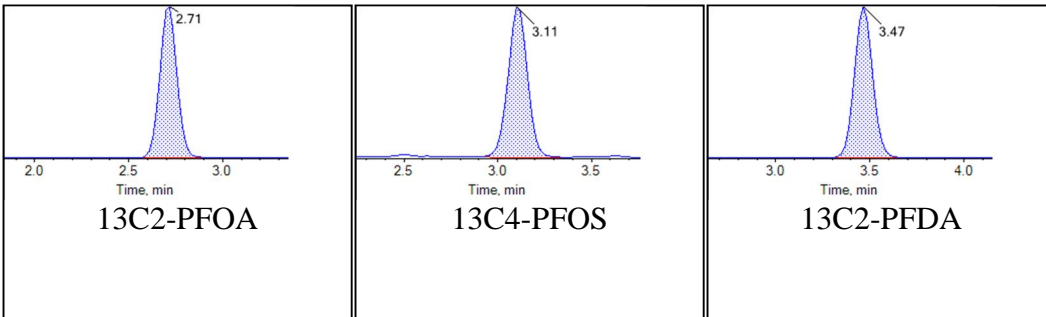
## Chromatograms

### Target Analytes:





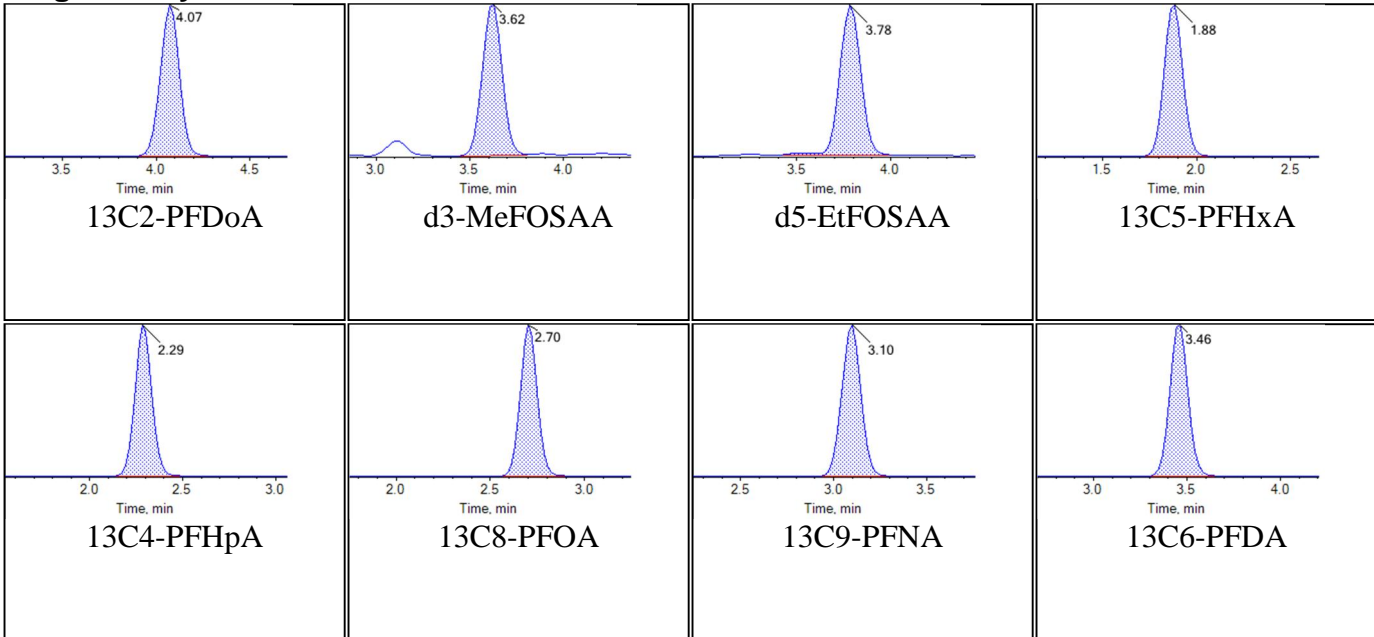
### Internal Standards:

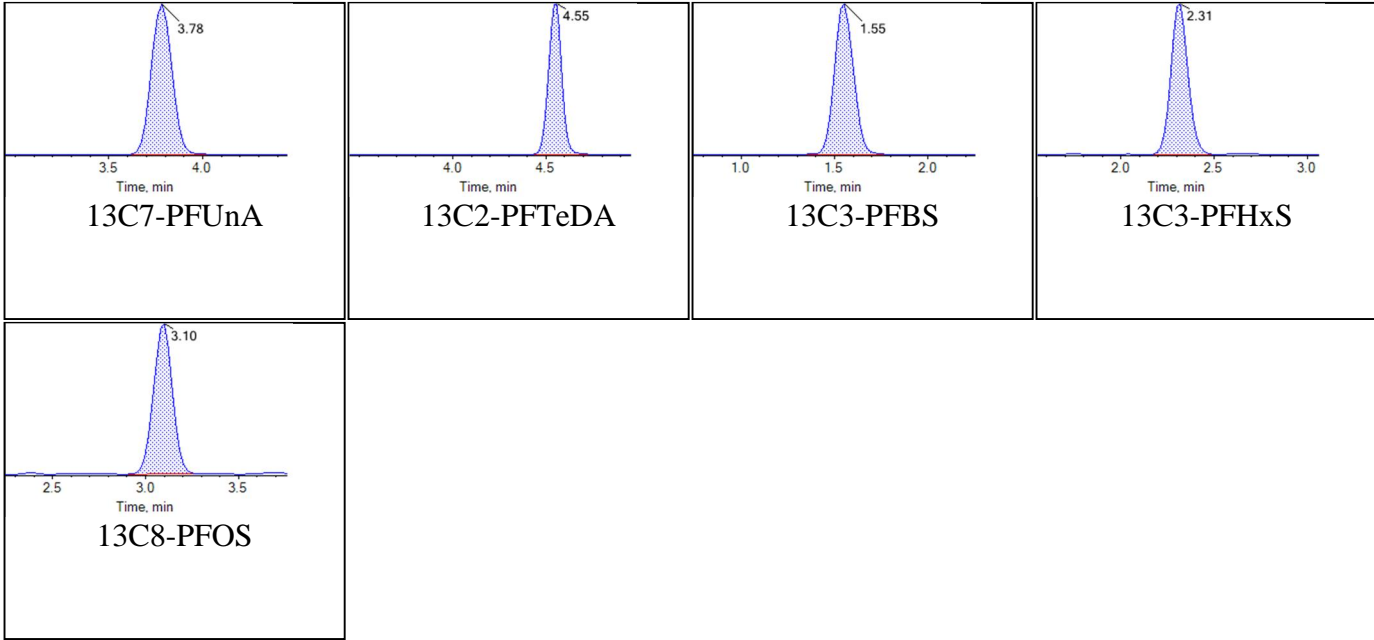


<b>Sample Name</b>	KB77	<b>Injection Vial</b>	6
<b>Sample ID</b>	L5	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:30:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

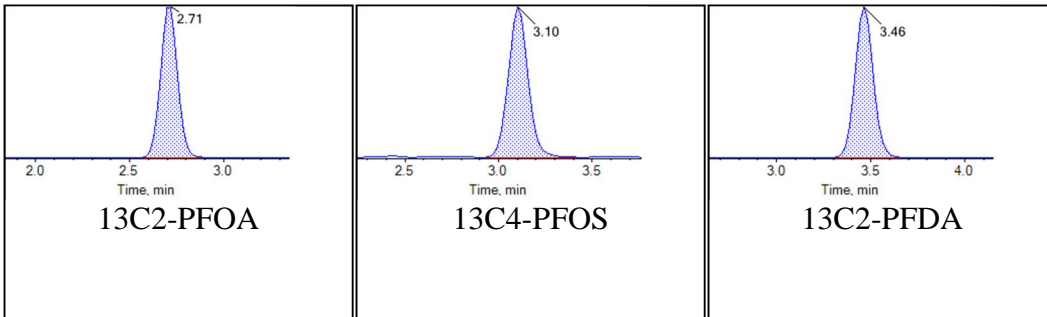
## Chromatograms

### Target Analytes:





### Internal Standards:

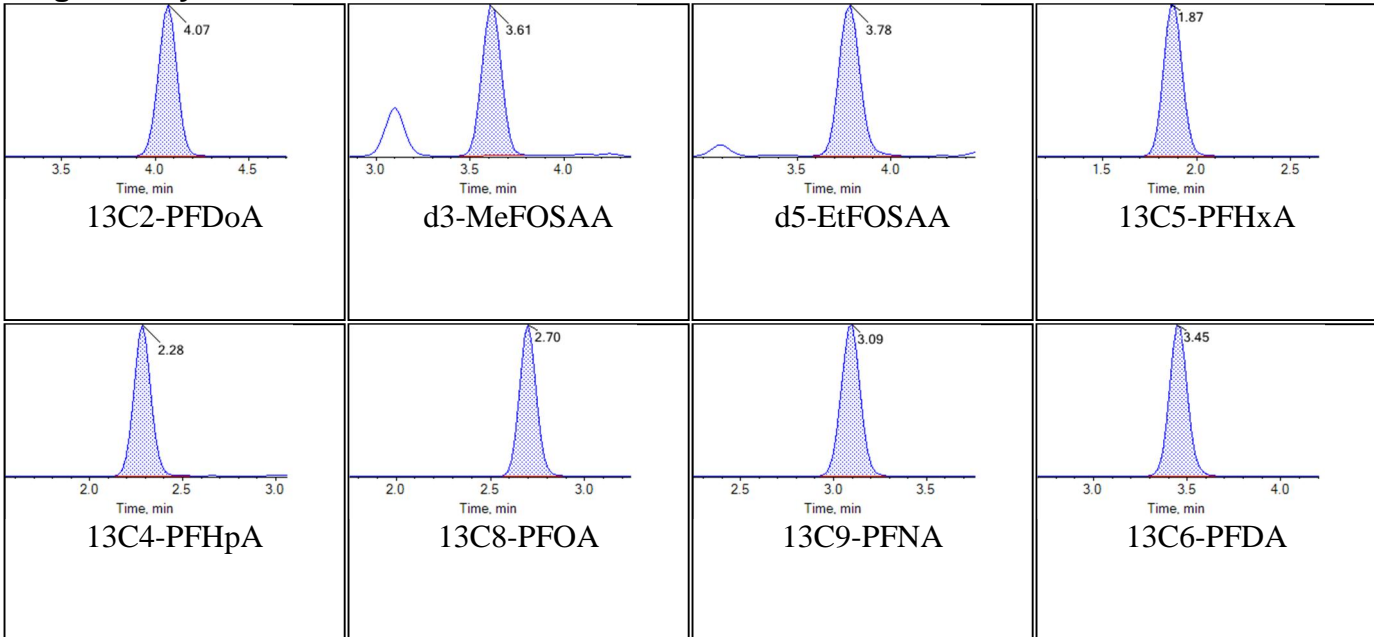


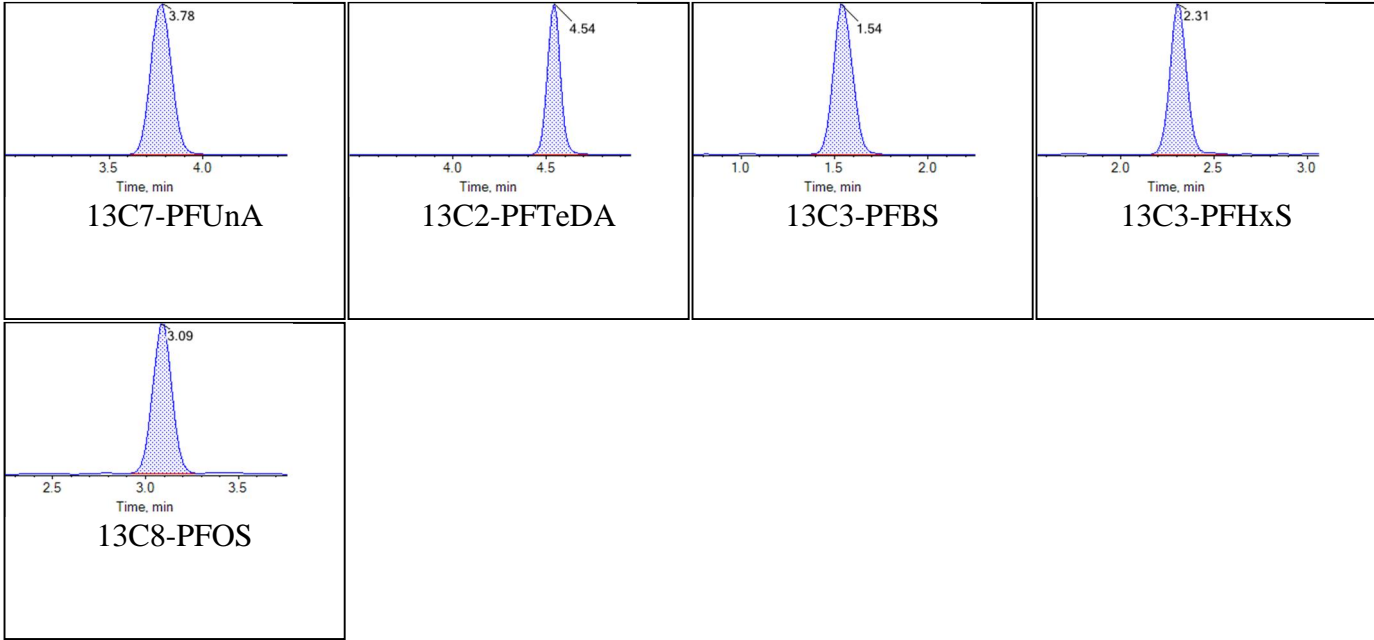


<b>Sample Name</b>	KB78	<b>Injection Vial</b>	7
<b>Sample ID</b>	L6	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:41:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

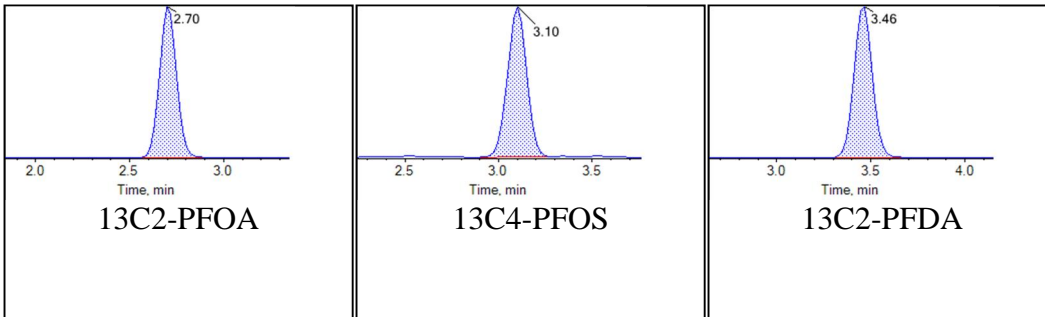
## Chromatograms

### Target Analytes:





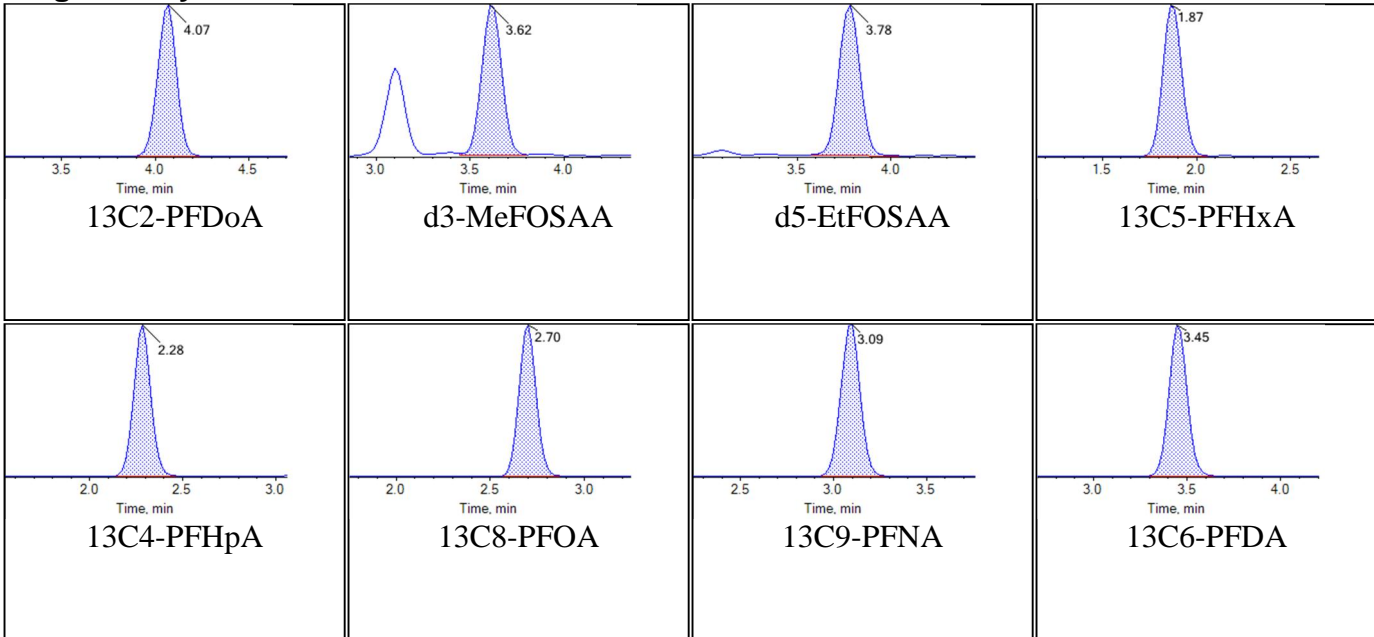
### Internal Standards:

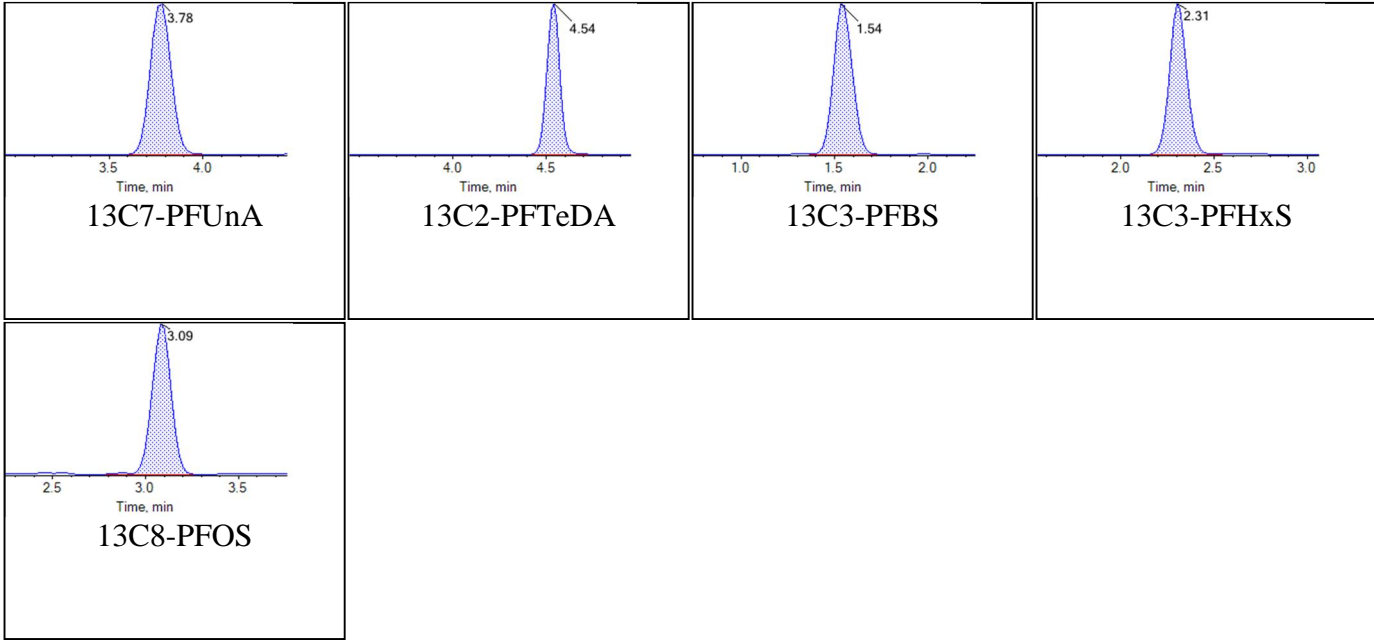


<b>Sample Name</b>	KB79	<b>Injection Vial</b>	8
<b>Sample ID</b>	L7	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:52:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

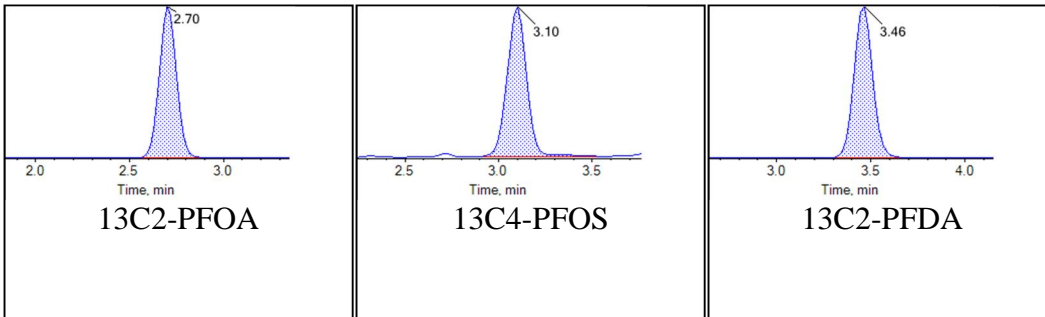
## Chromatograms

### Target Analytes:





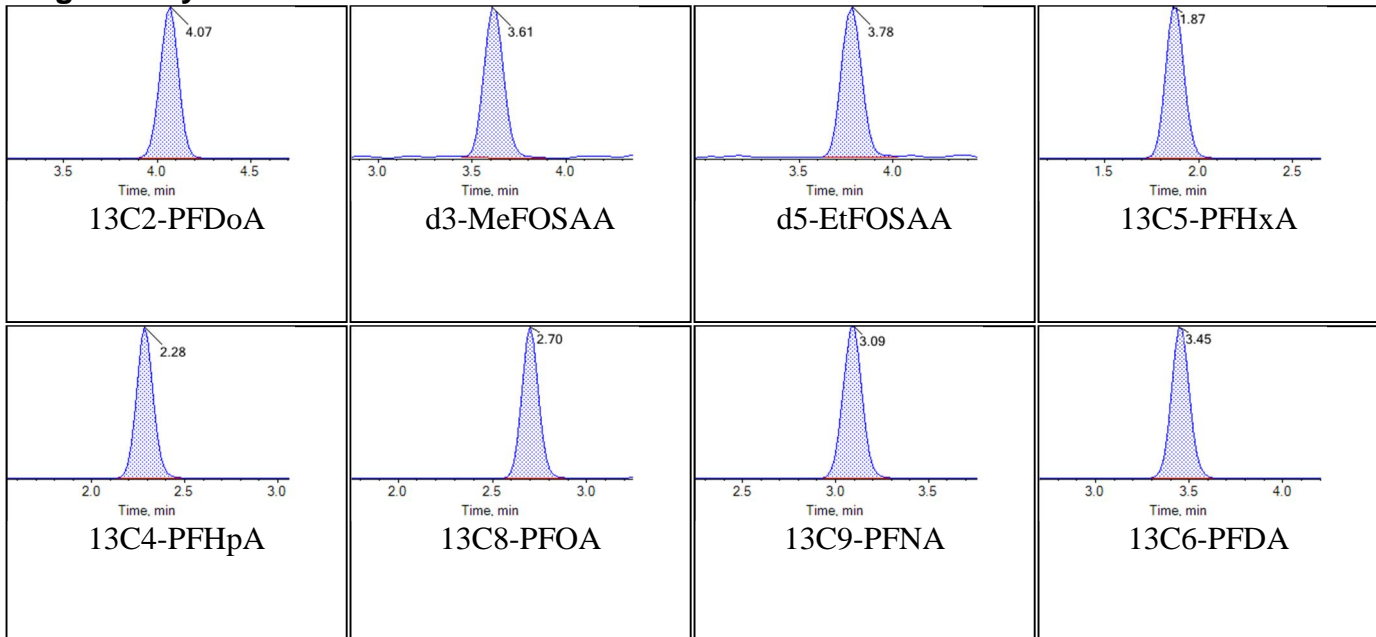
### Internal Standards:

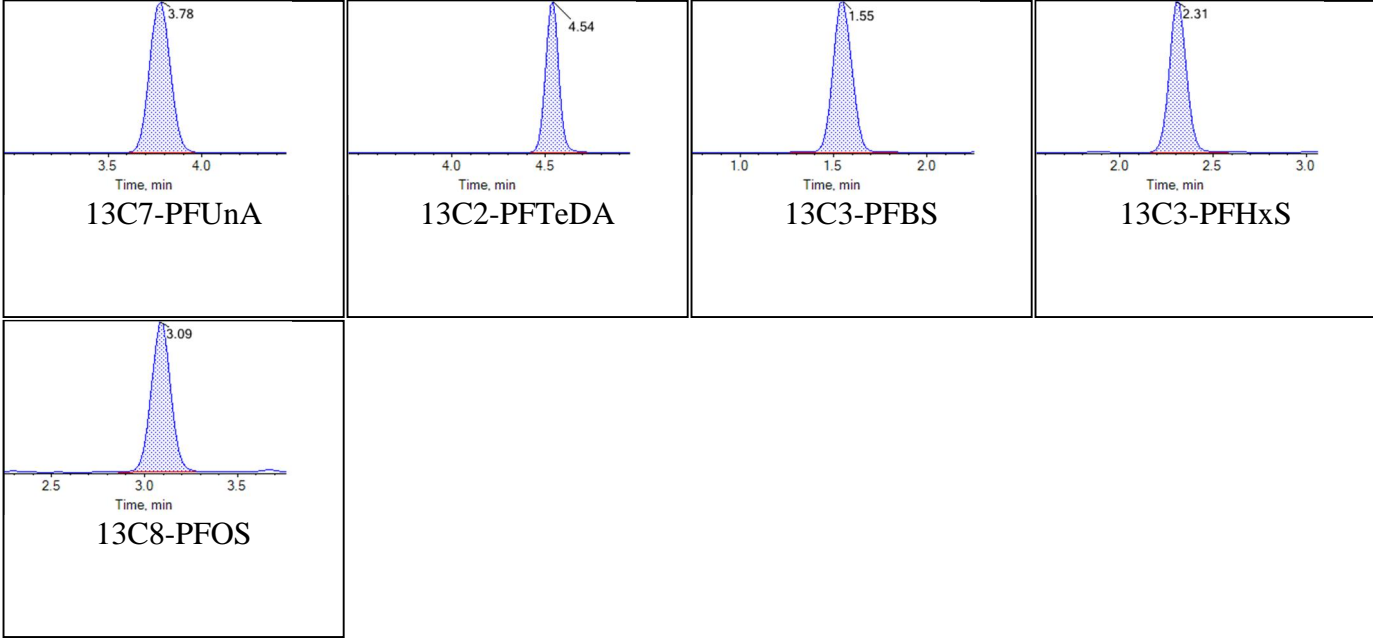


<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	9
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:02:57	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

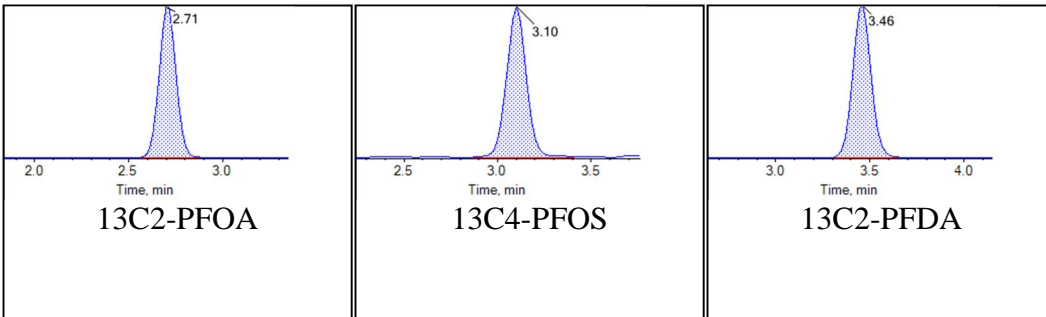
## Chromatograms

### Target Analytes:





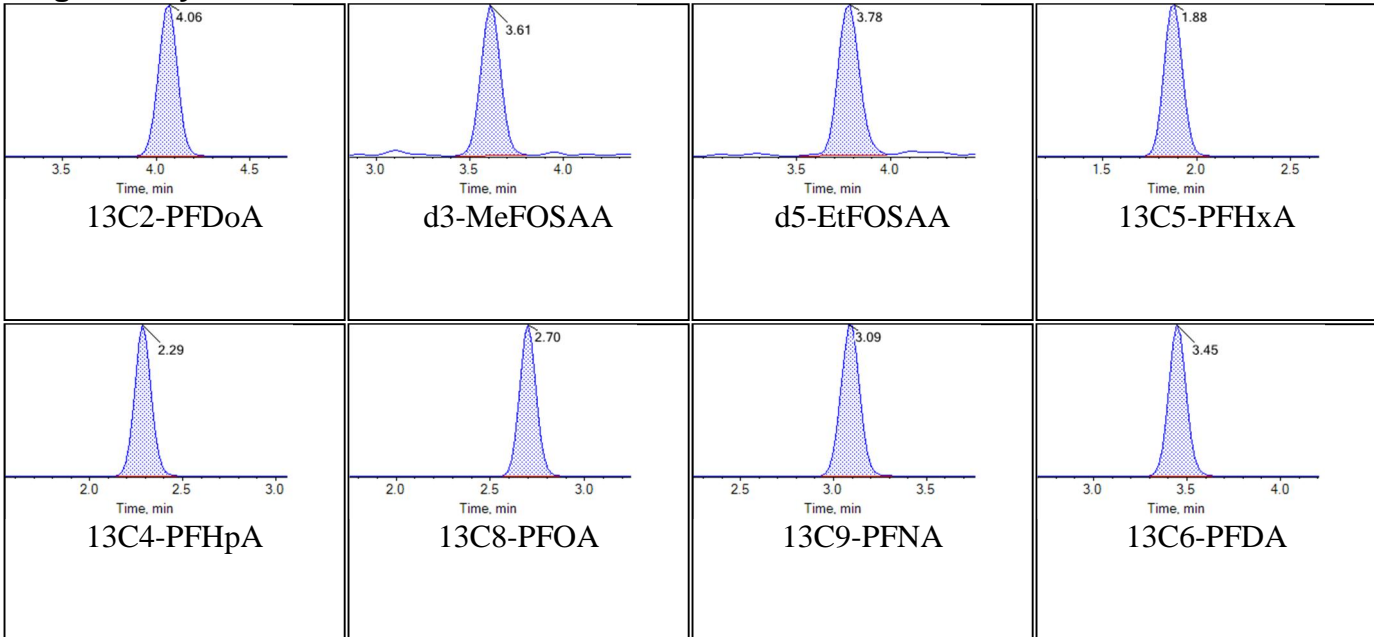
### Internal Standards:

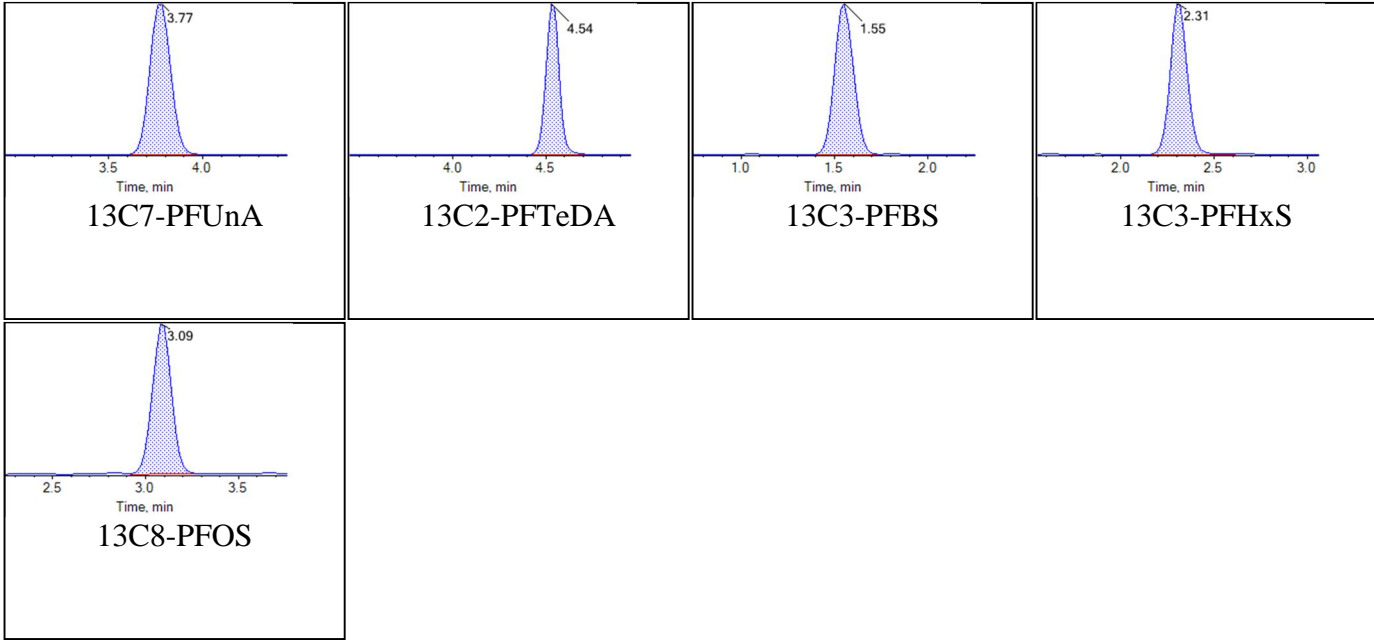


<b>Sample Name</b>	KB81 ICC	<b>Injection Vial</b>	10
<b>Sample ID</b>	ICC	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:13:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

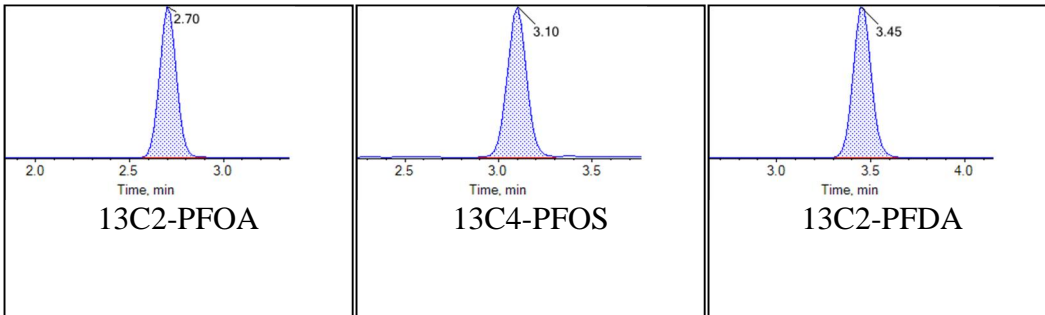
## Chromatograms

### Target Analytes:





### Internal Standards:

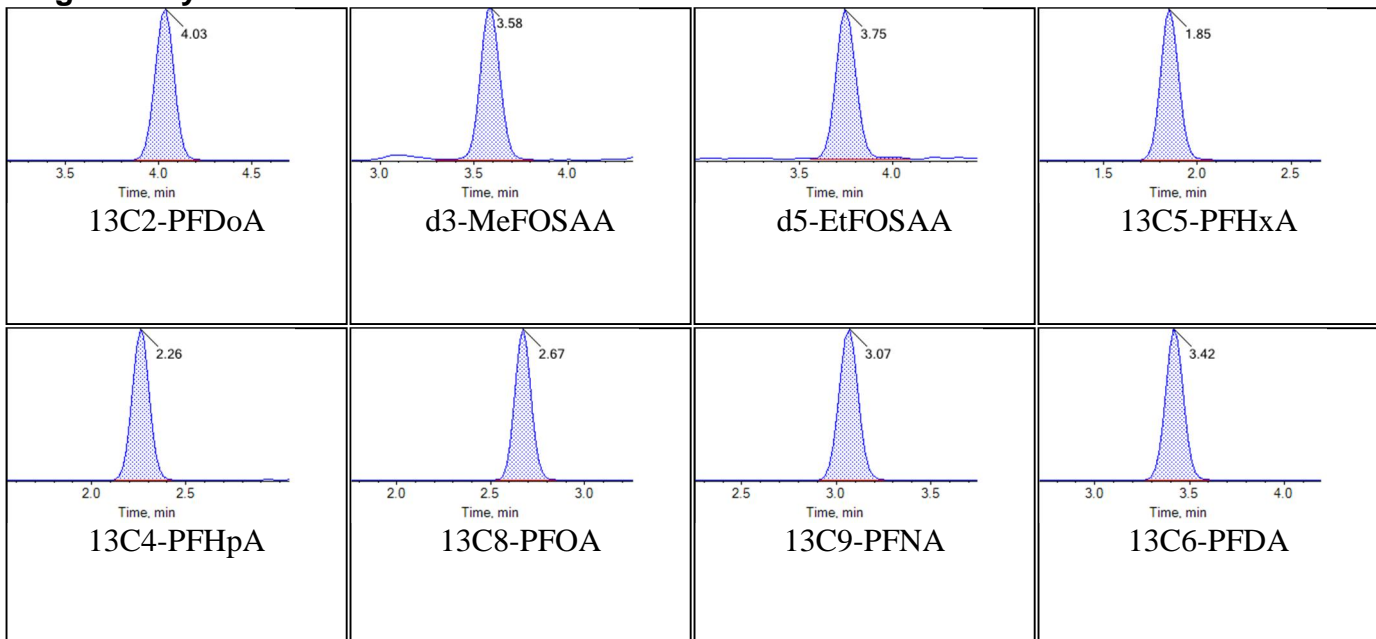


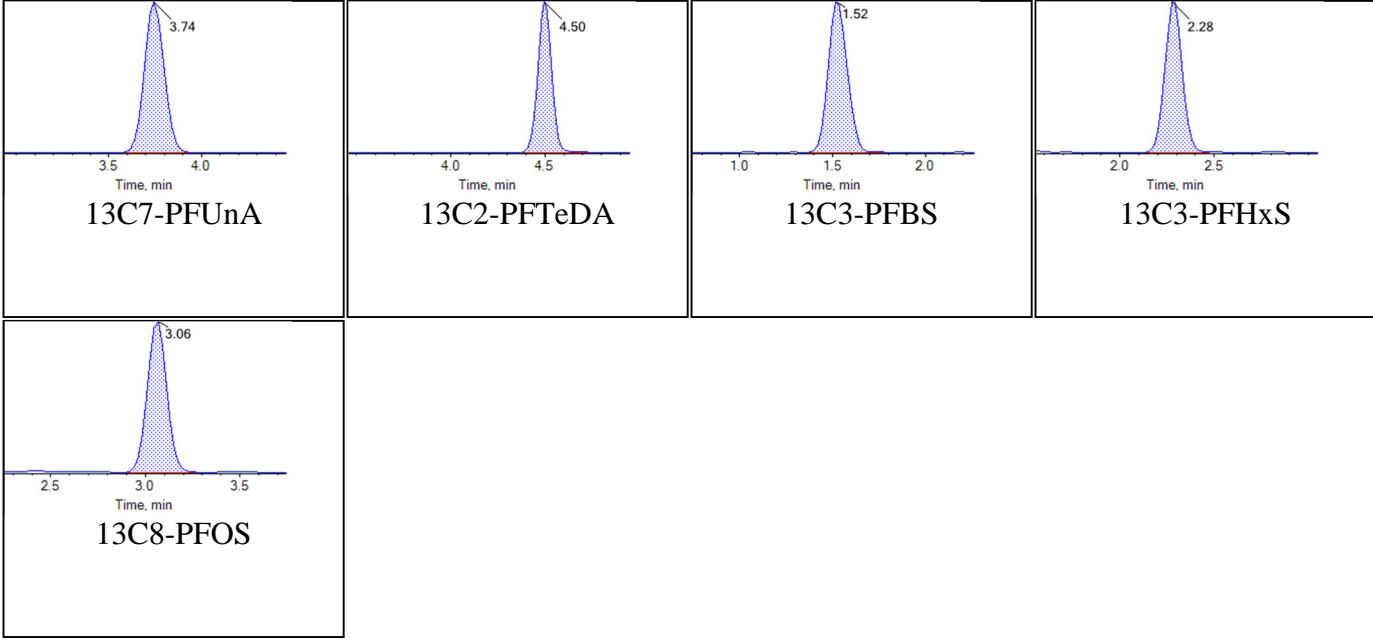


<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	29
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T00:51:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

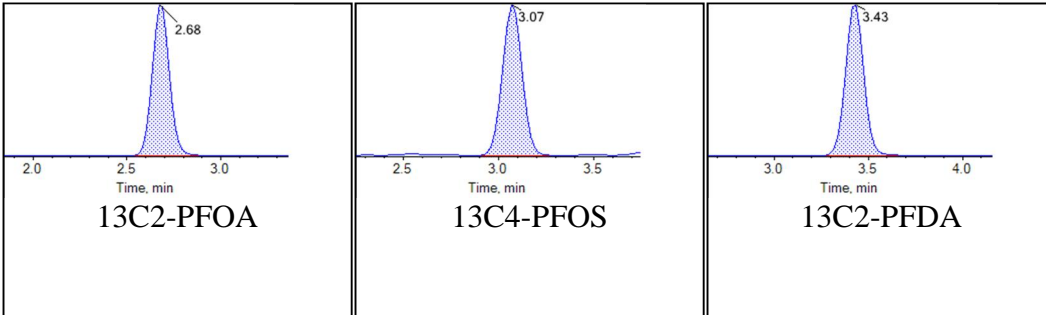
## Chromatograms

### Target Analytes:





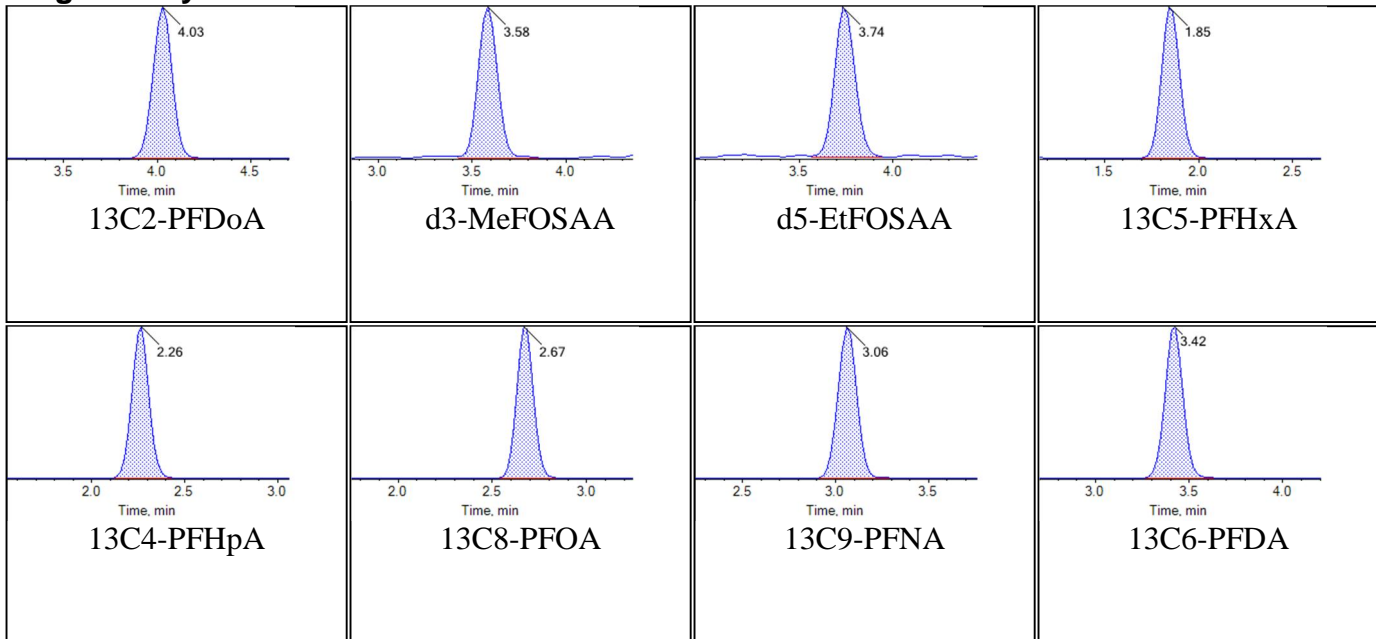
### Internal Standards:



<b>Sample Name</b>	CR900PB-FS(0)	<b>Injection Vial</b>	31
<b>Sample ID</b>	Procedural Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:12:51	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

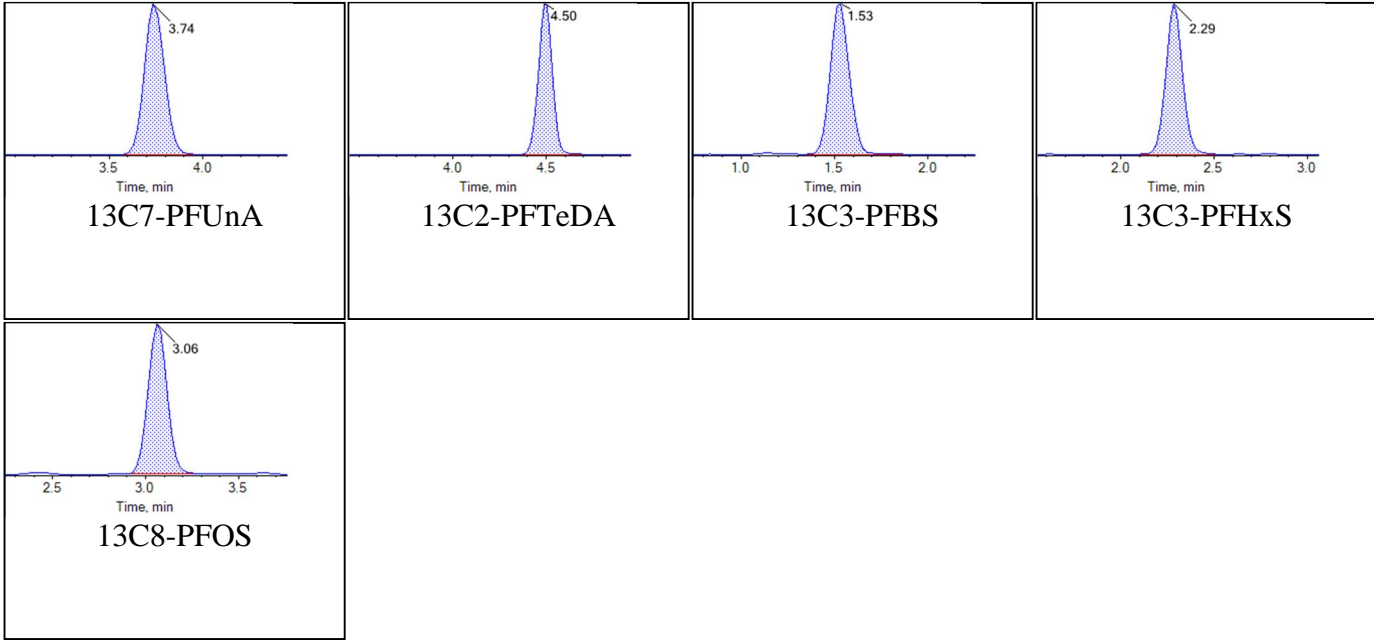
## Chromatograms

### Target Analytes:

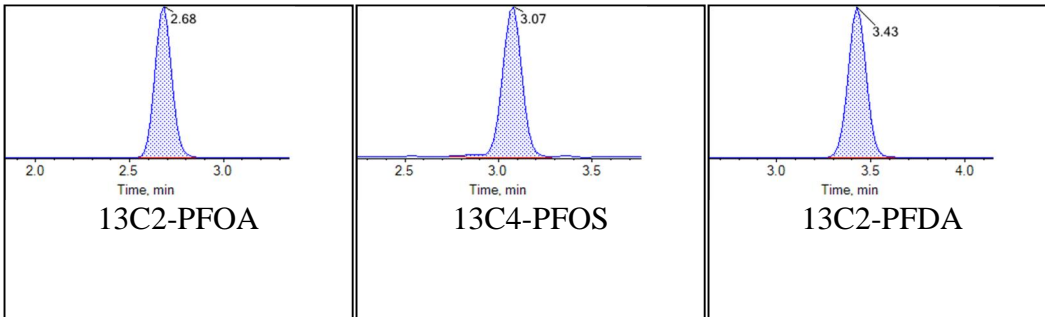


## Chromatogram Report

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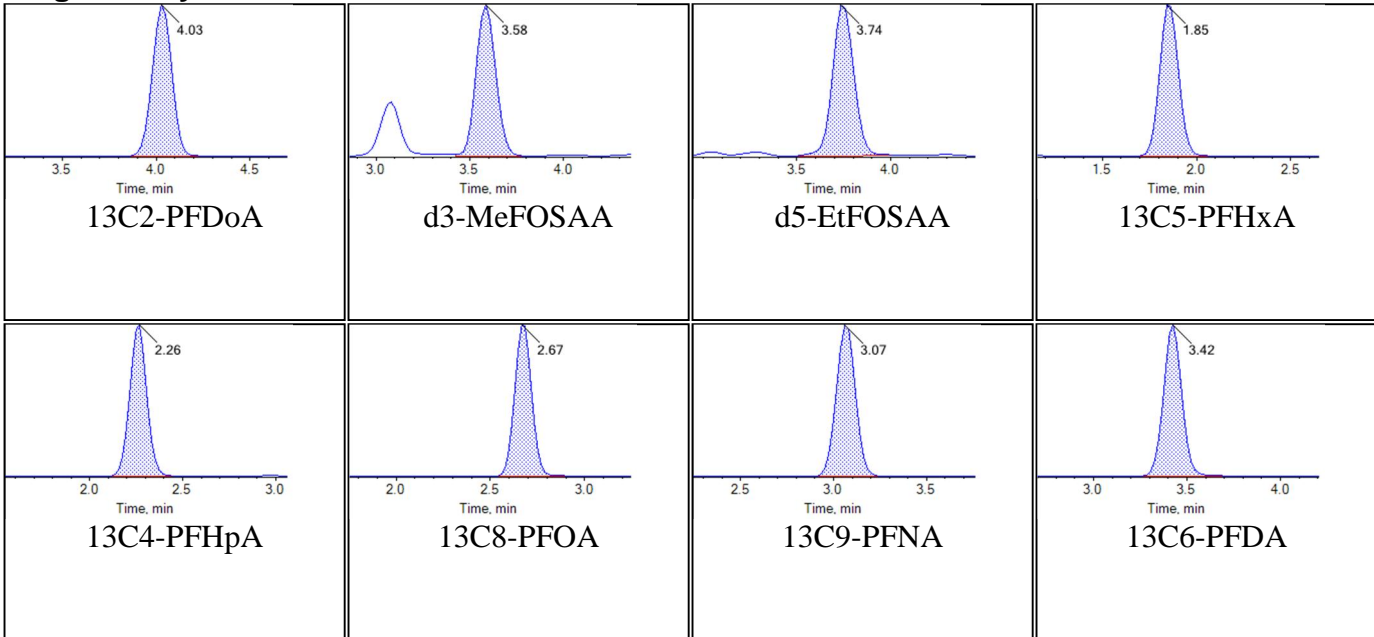
### Internal Standards:



<b>Sample Name</b>	CR901LCS-FS(0)	<b>Injection Vial</b>	32
<b>Sample ID</b>	Laboratory Control Sample	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:23:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

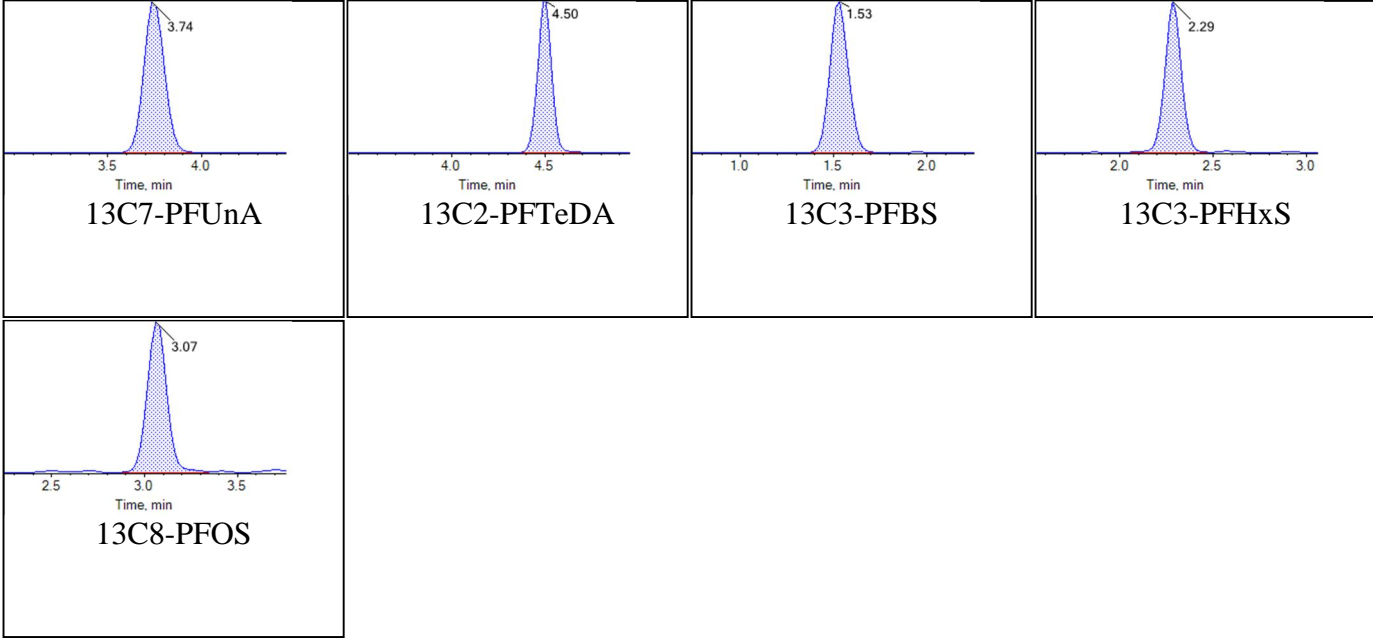
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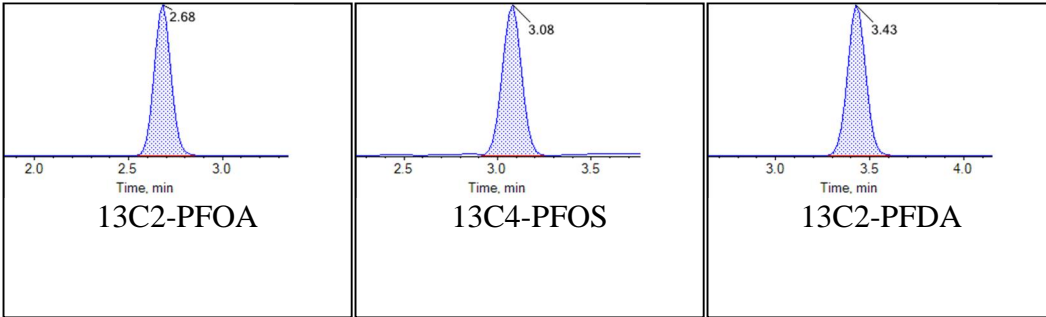


Chromatogram Report

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Printed: 25/10/2018 9:33:28 AM



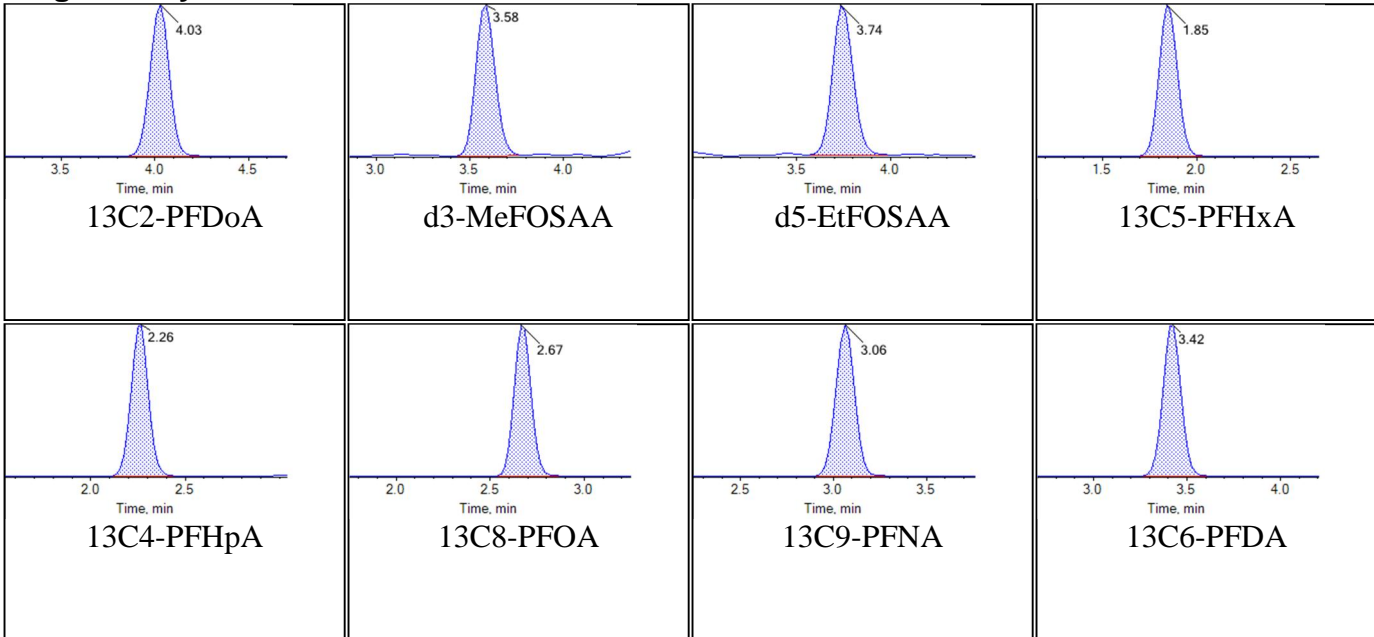
Internal Standards:

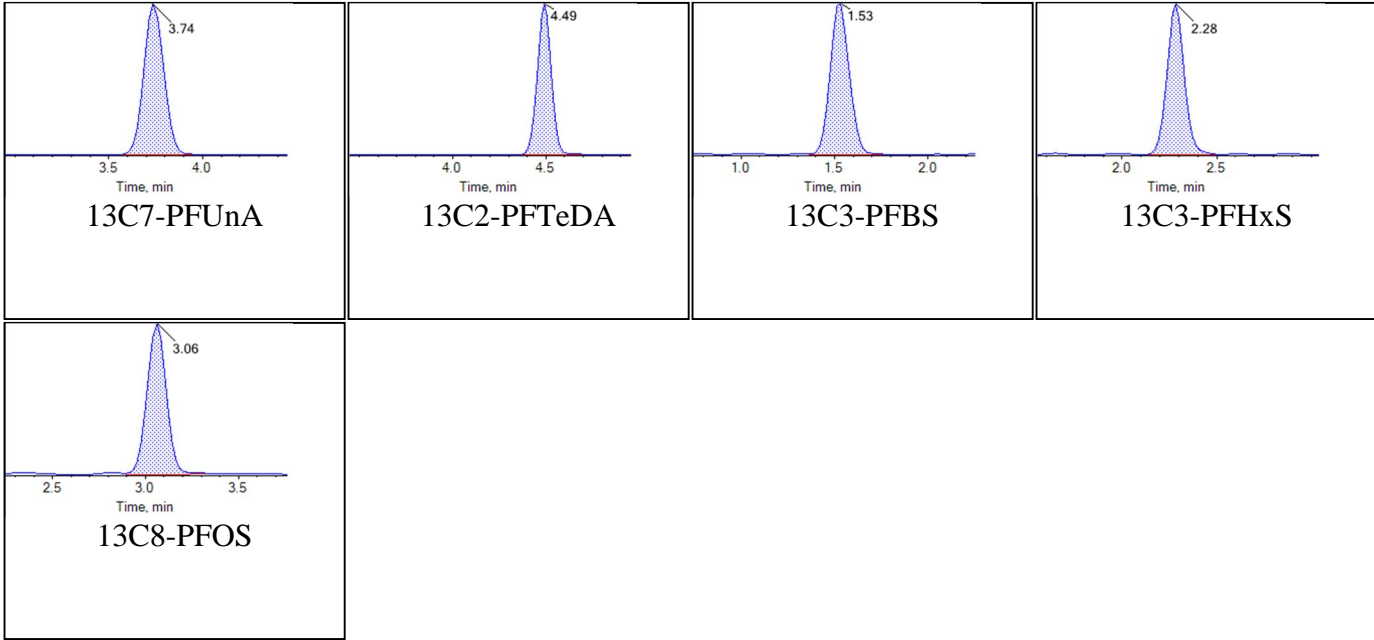


Sample Name	J8455-FS(0)	Injection Vial	33
Sample ID	VC-SO-FB07-09262018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T01:34:36	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

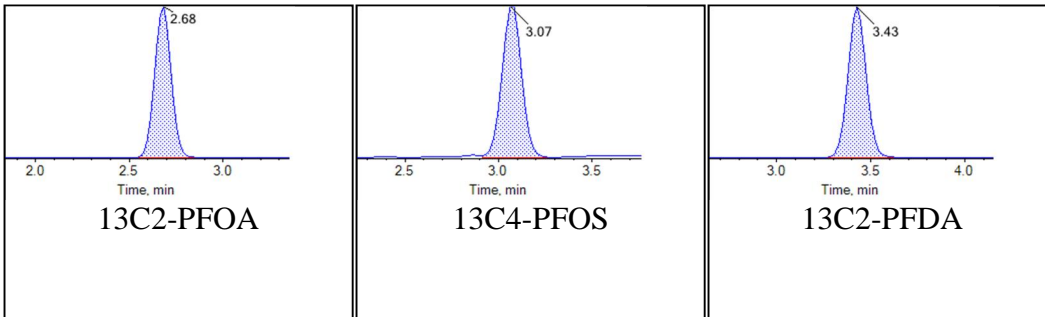
## Chromatograms

### Target Analytes:





### Internal Standards:

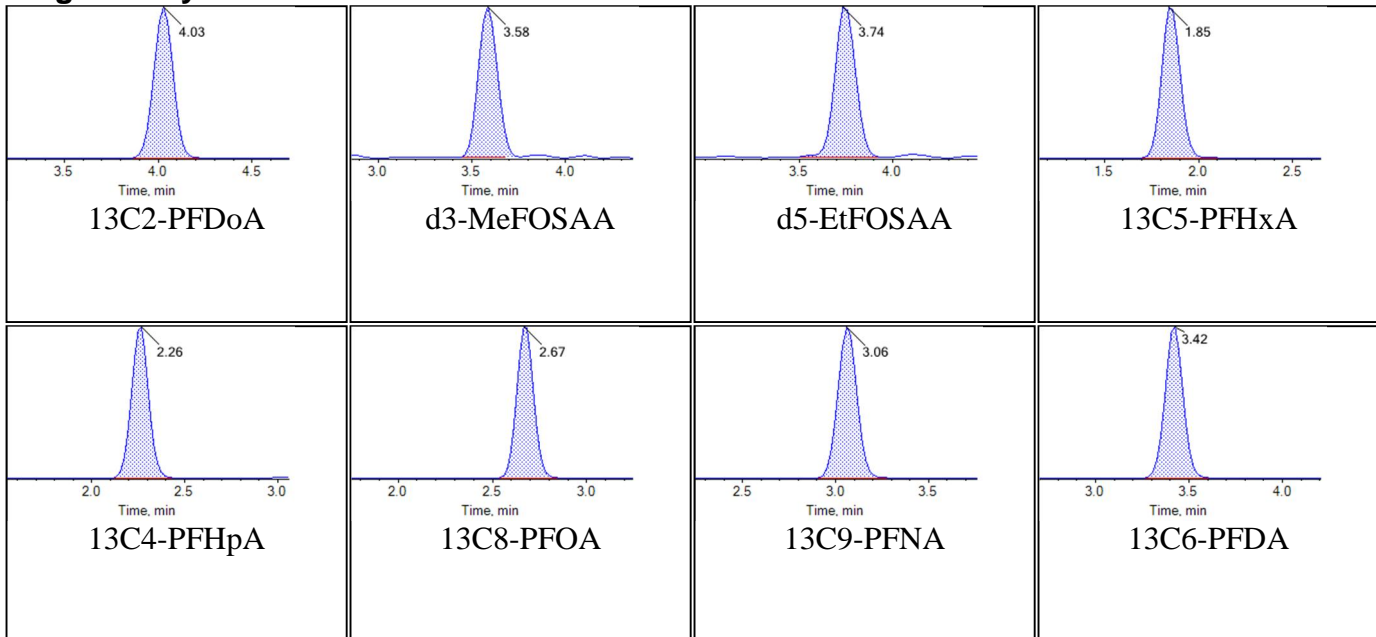


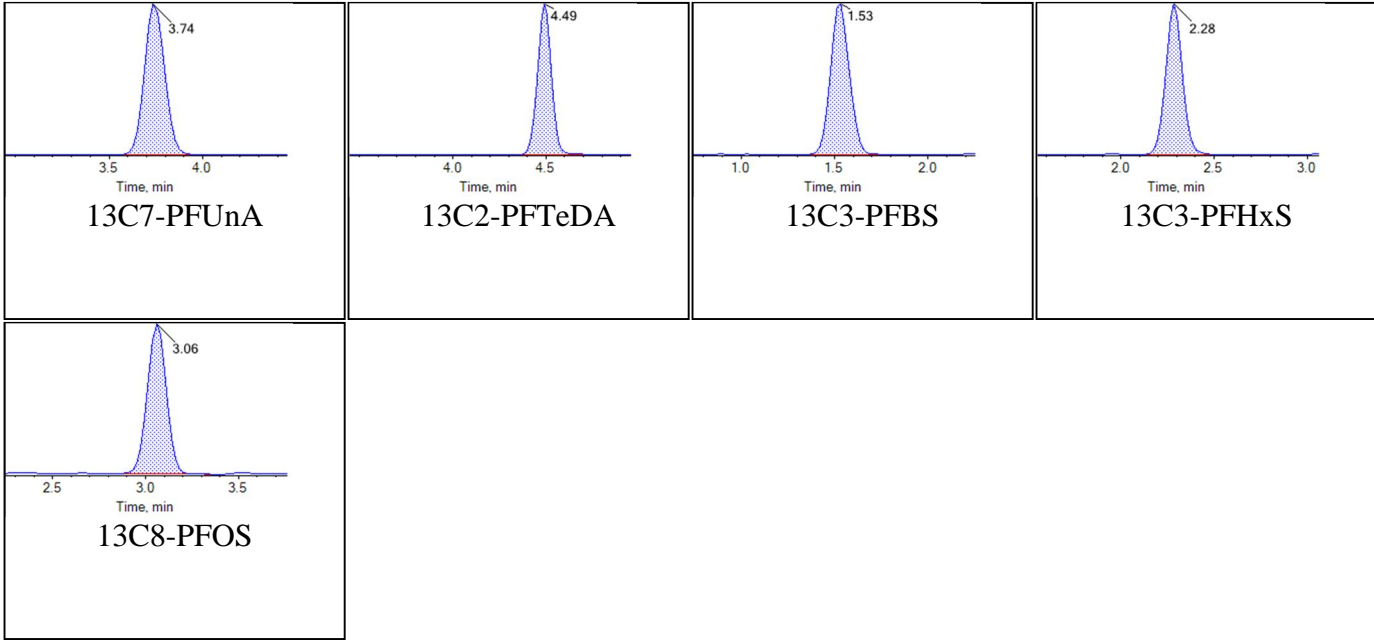


<b>Sample Name</b>	J8456-FS(0)	<b>Injection Vial</b>	34
<b>Sample ID</b>	VC-SO-EB07-09262018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:45:28	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

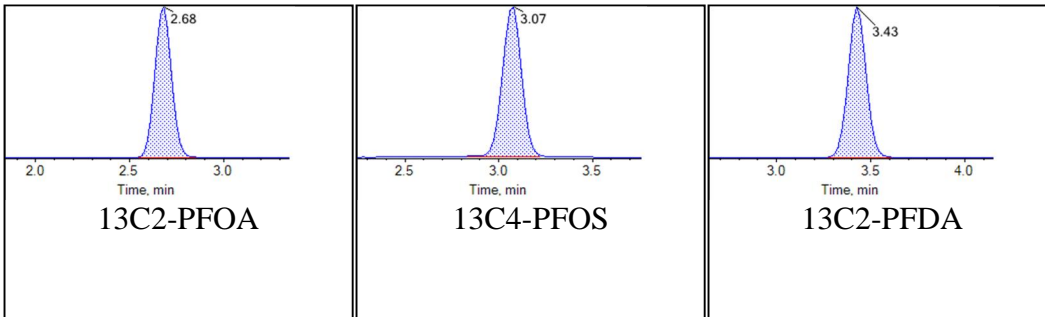
## Chromatograms

### Target Analytes:





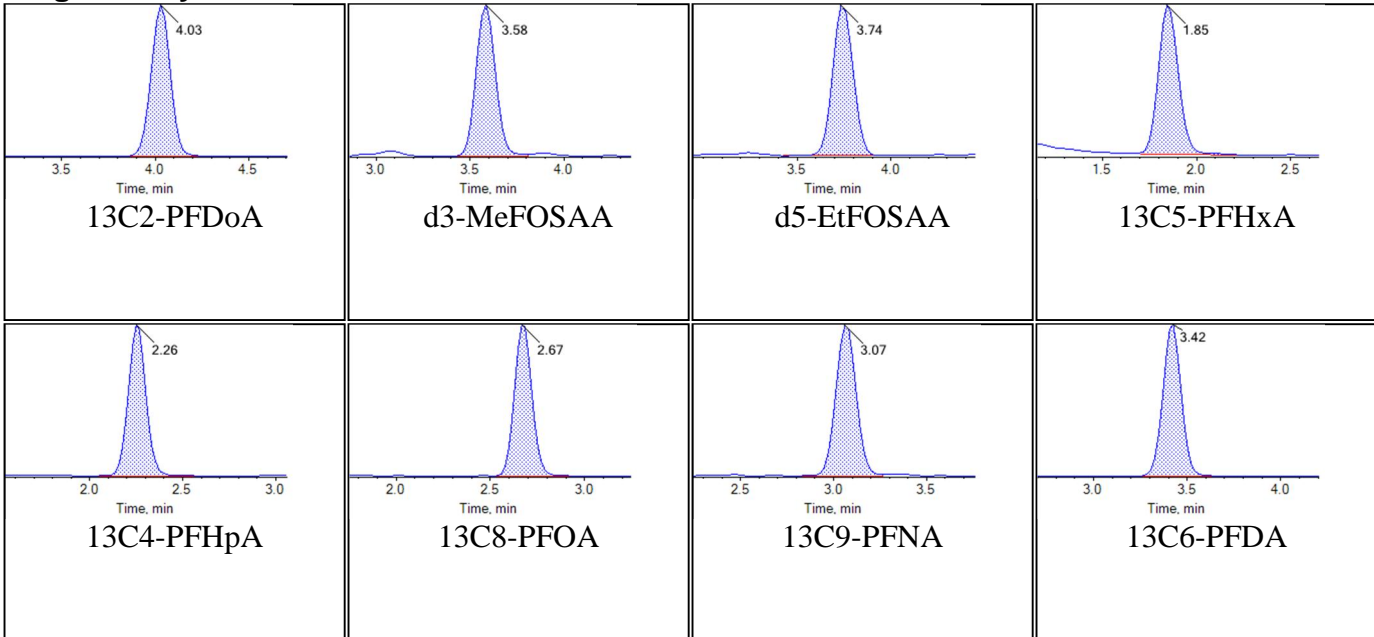
### Internal Standards:

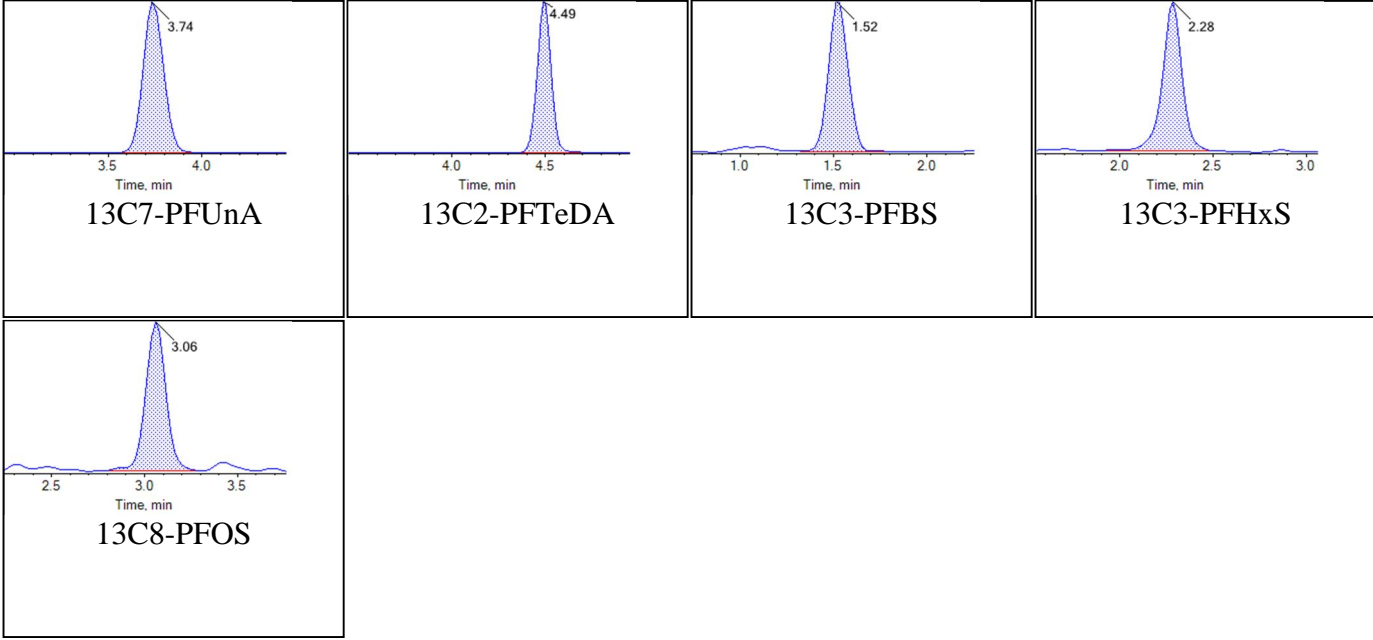


<b>Sample Name</b>	J8457-FS(0)	<b>Injection Vial</b>	35
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T01:56:20	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

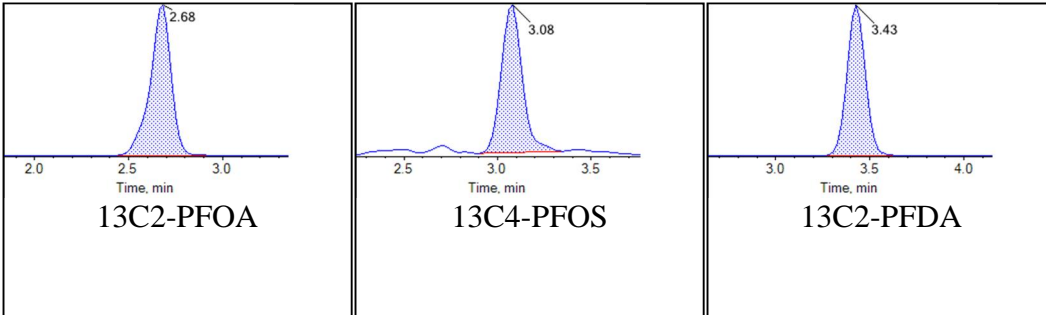
## Chromatograms

### Target Analytes:





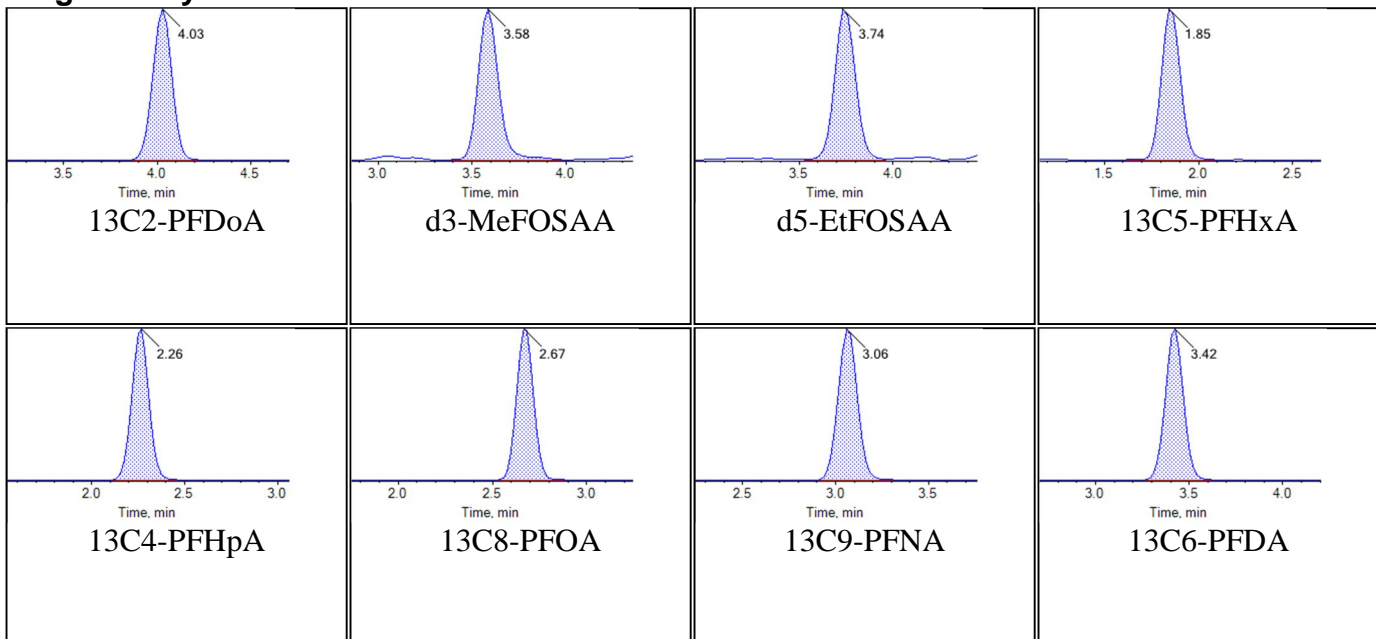
### Internal Standards:



Sample Name	J8457-FS-D(3)	Injection Vial	36
Sample ID	VC-MS09-DW01-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:07:11	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

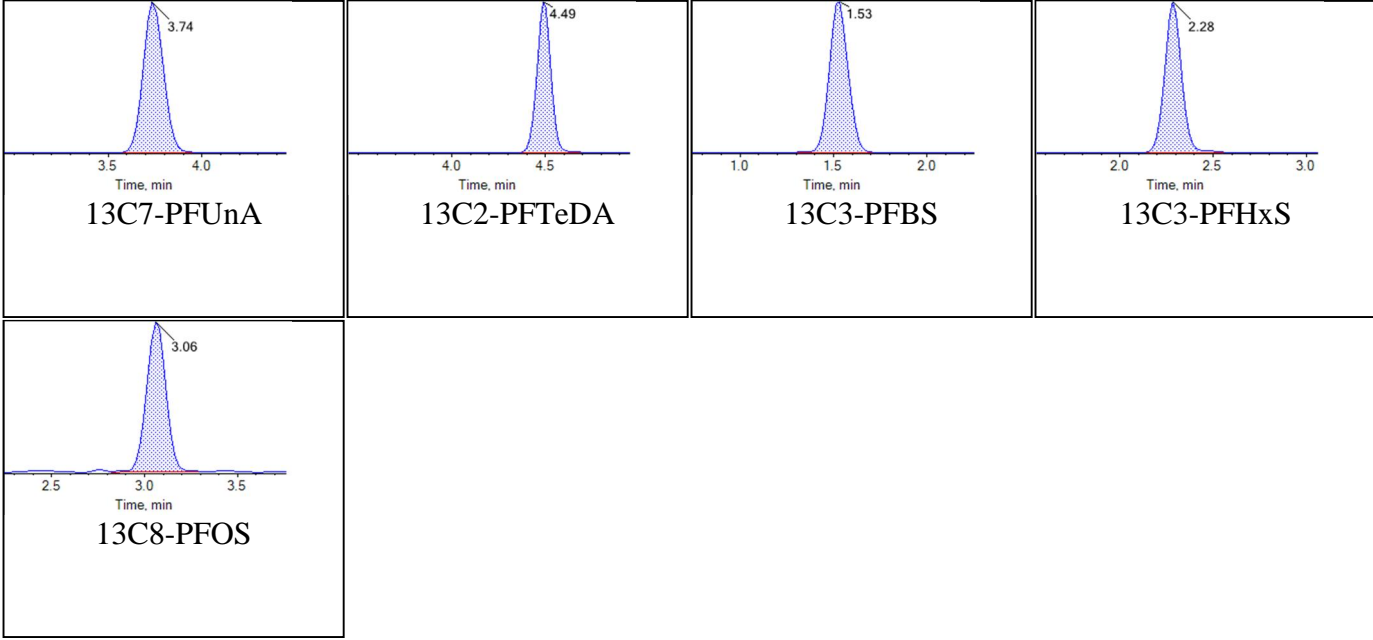
### Target Analytes:



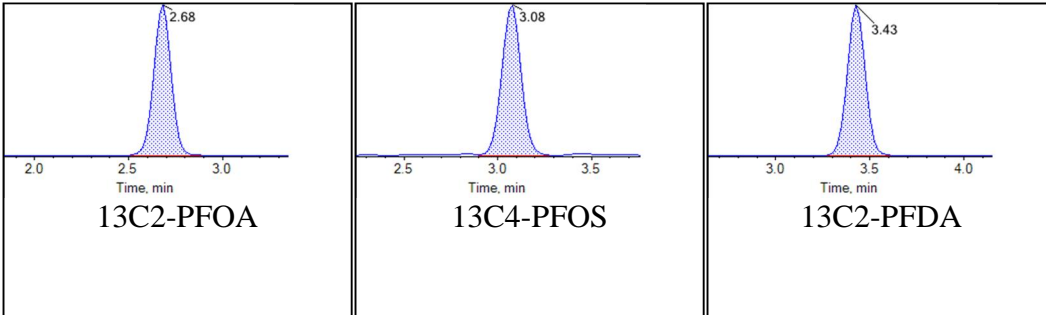


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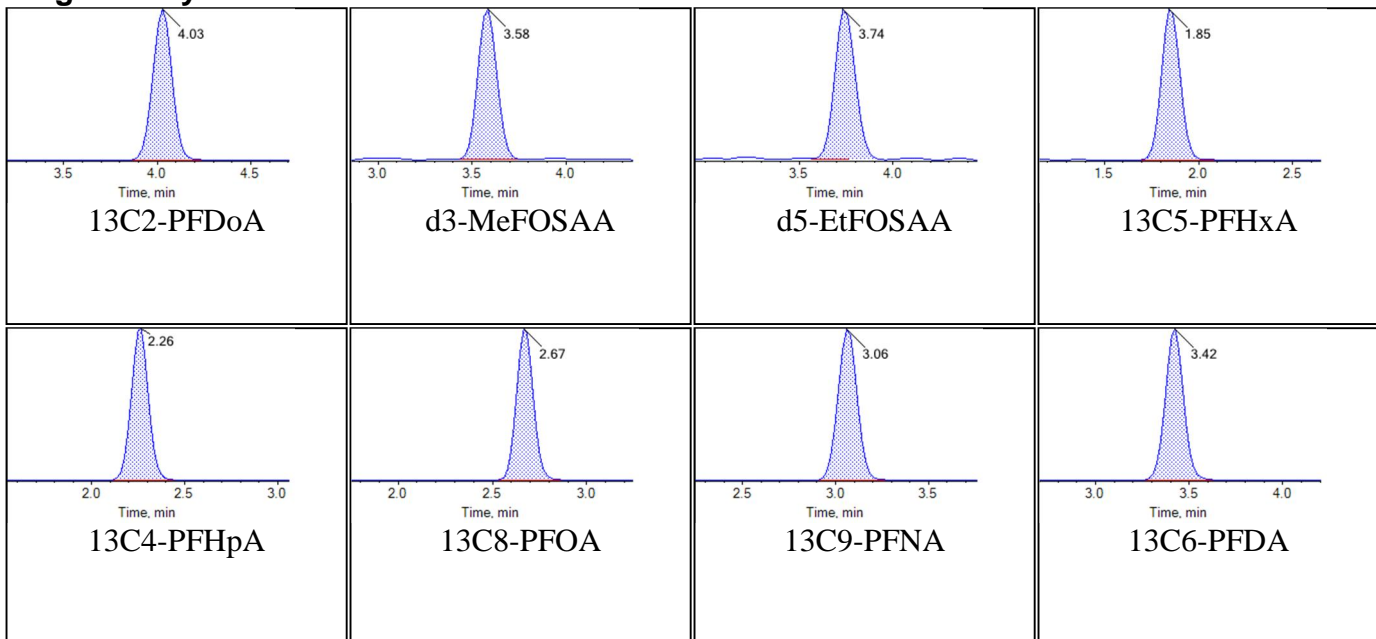
Internal Standards:



<b>Sample Name</b>	J8457-FS-D(5)	<b>Injection Vial</b>	37
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:18:02	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

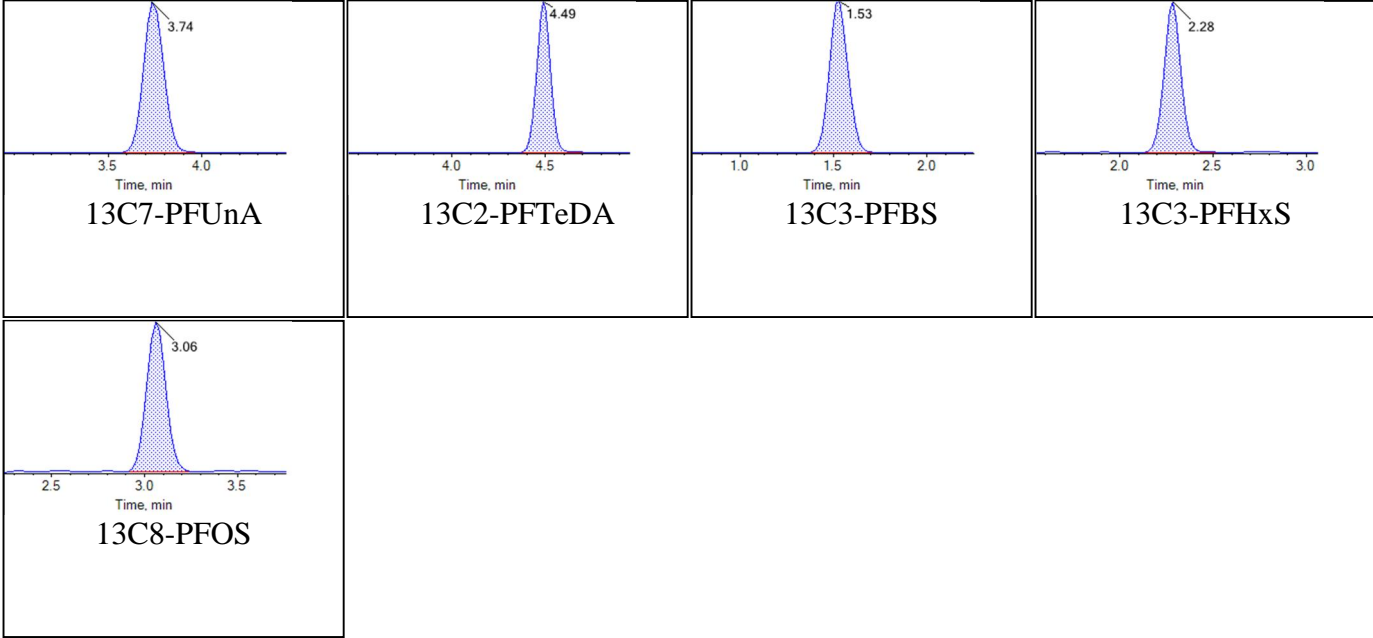
### Target Analytes:



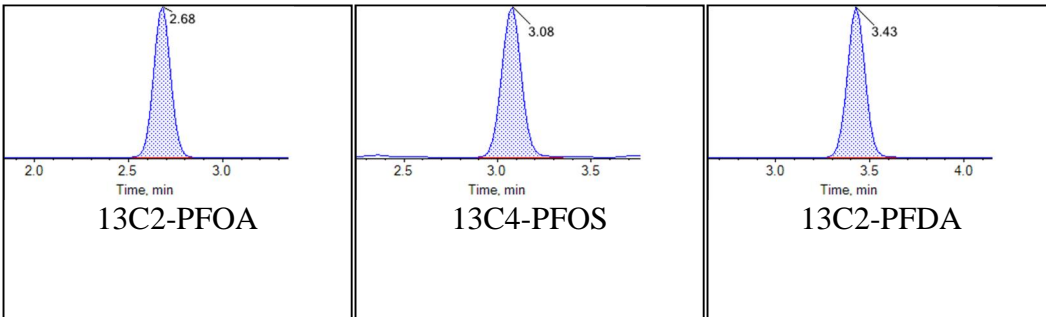


Chromatogram Report

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Internal Standards:

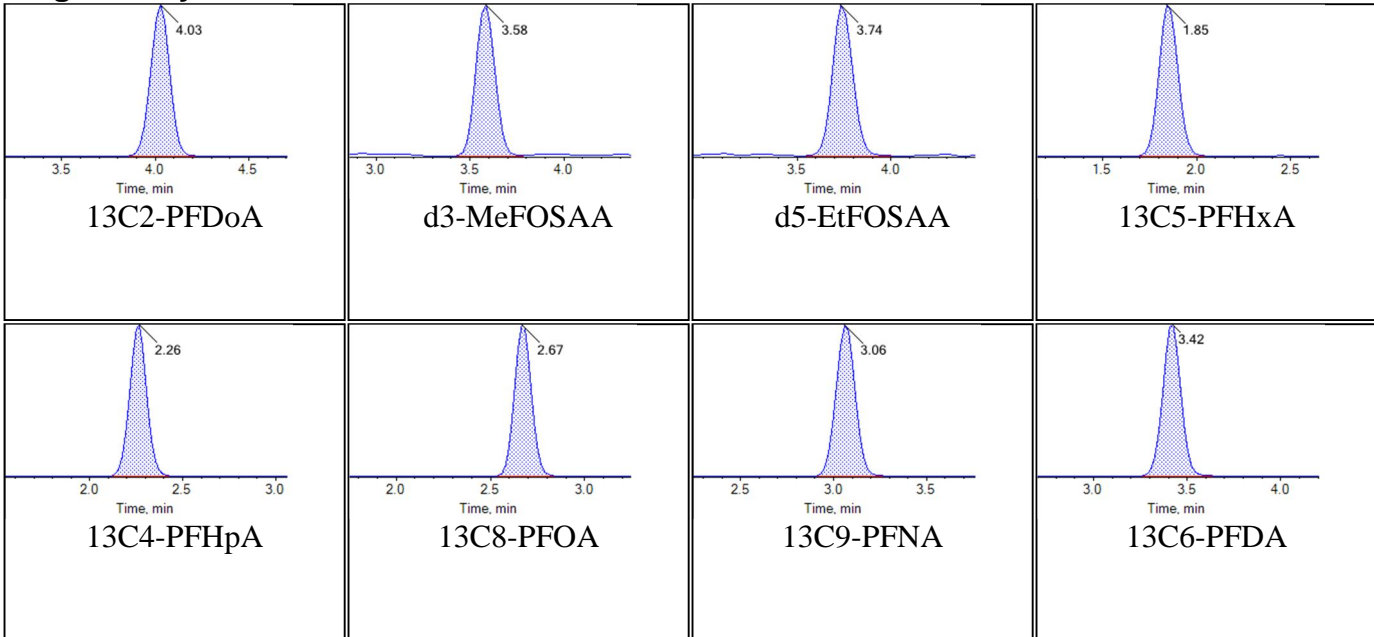




<b>Sample Name</b>	J8457-FS-D(7)	<b>Injection Vial</b>	38
<b>Sample ID</b>	VC-MS09-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T02:28:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

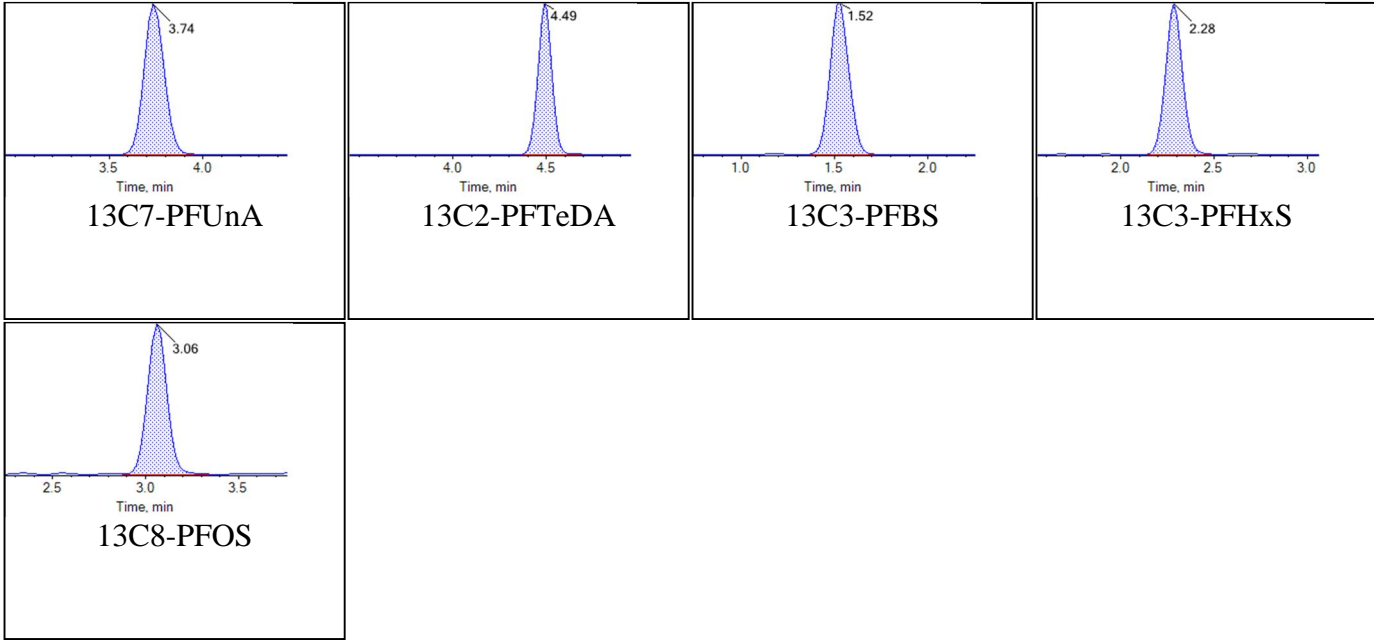
### Target Analytes:



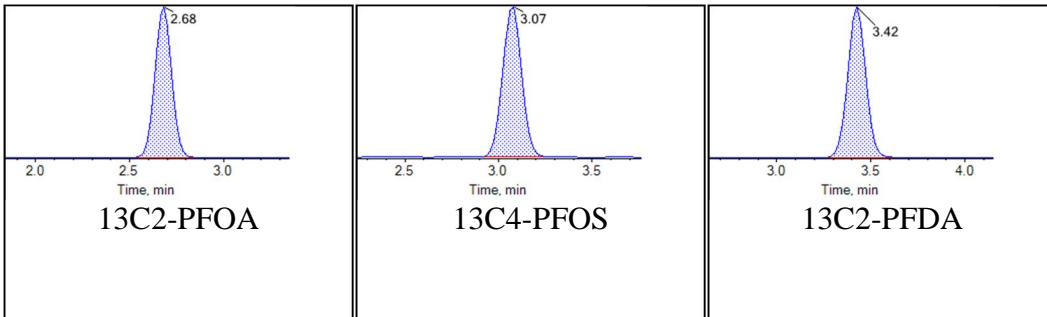


Chromatogram Report

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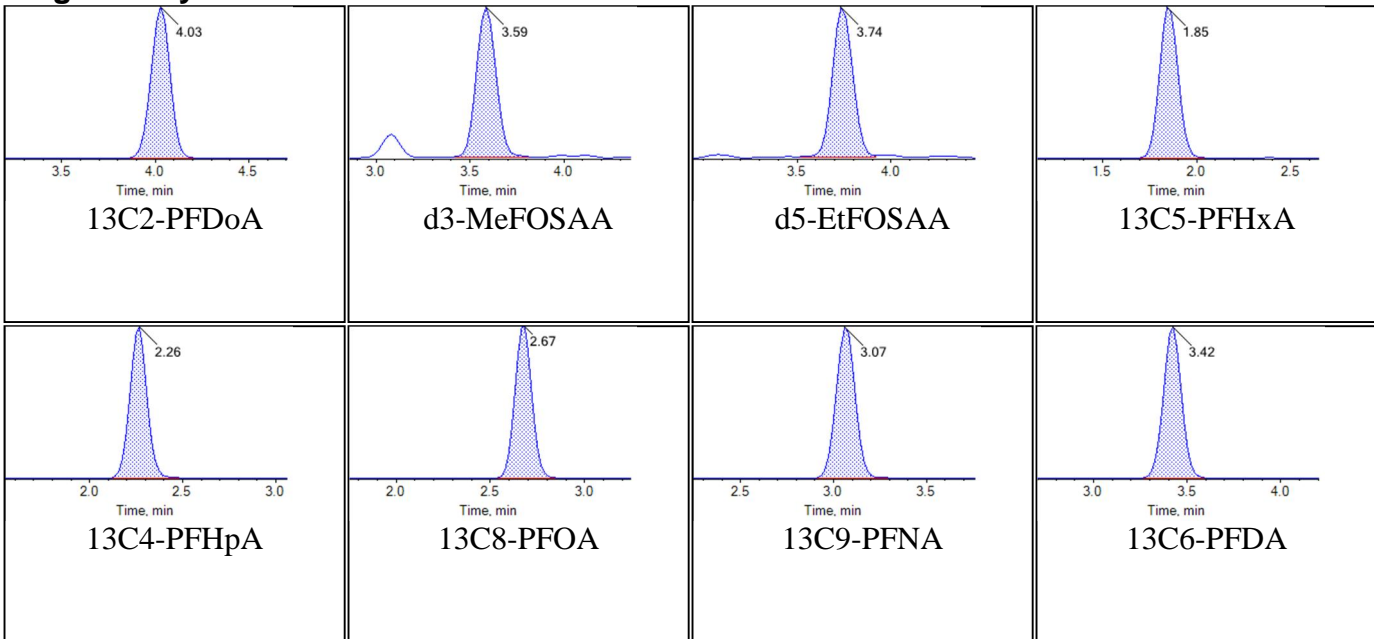
Internal Standards:



Sample Name	KB77 CCV	Injection Vial	39
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T02:39:48	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

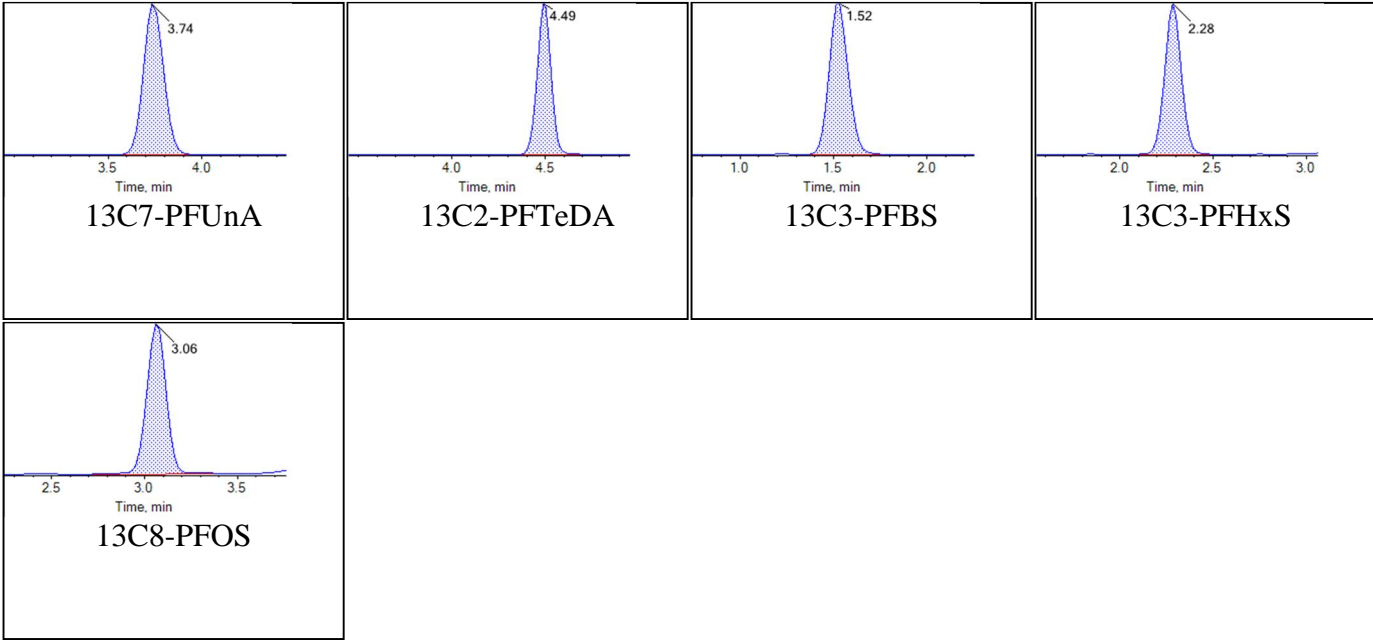
### Target Analytes:



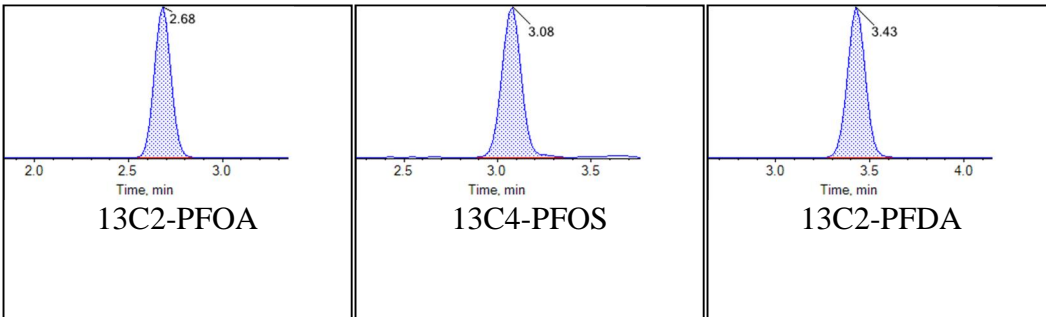


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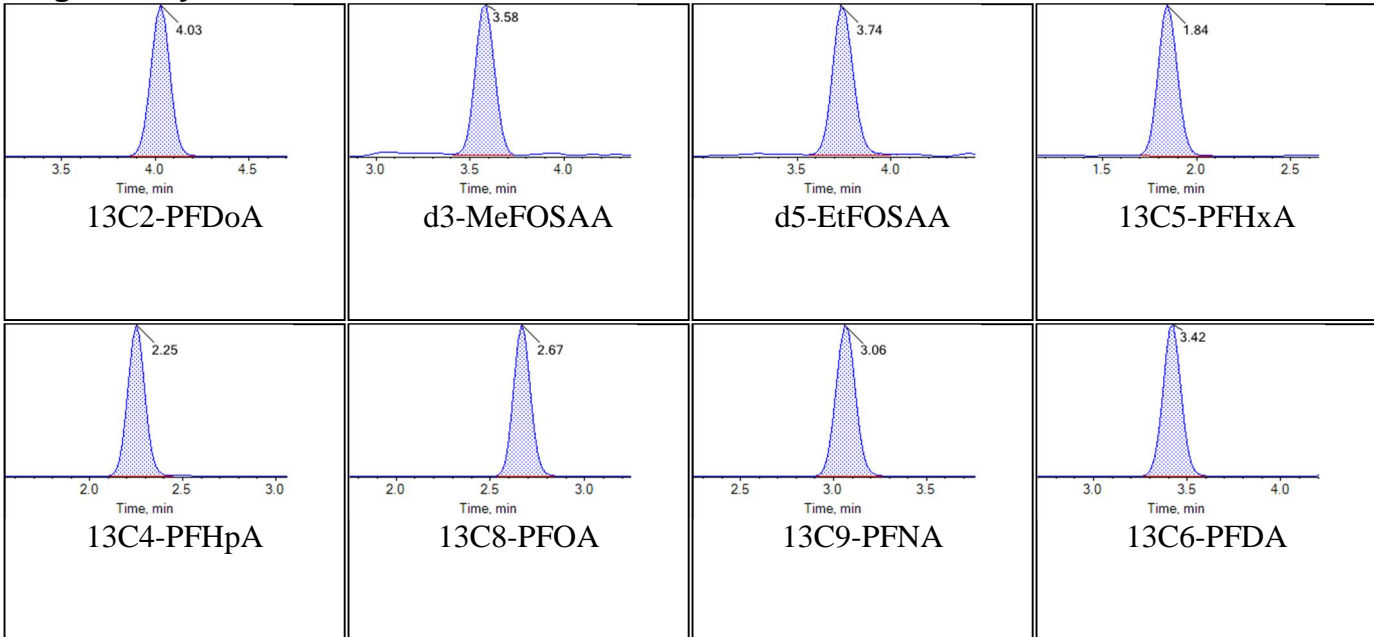
Internal Standards:



<b>Sample Name</b>	J8458-FS(0)	<b>Injection Vial</b>	41
<b>Sample ID</b>	VC-MS09-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:01:33	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

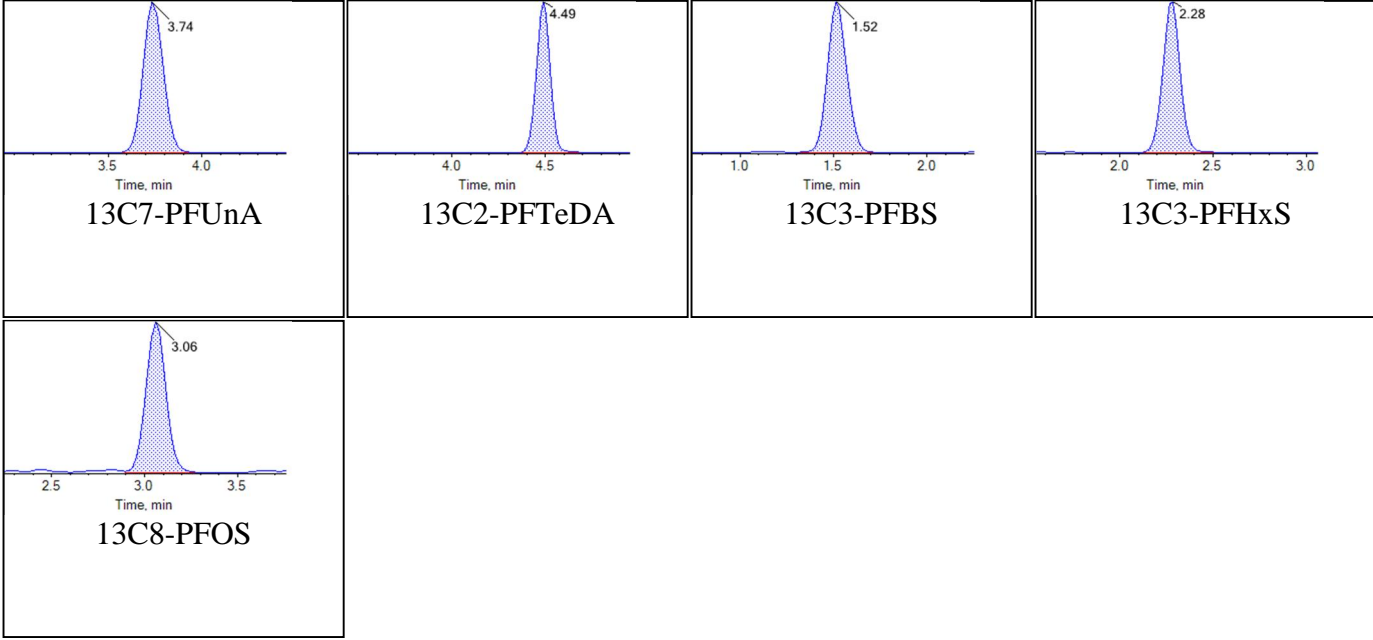
### Target Analytes:



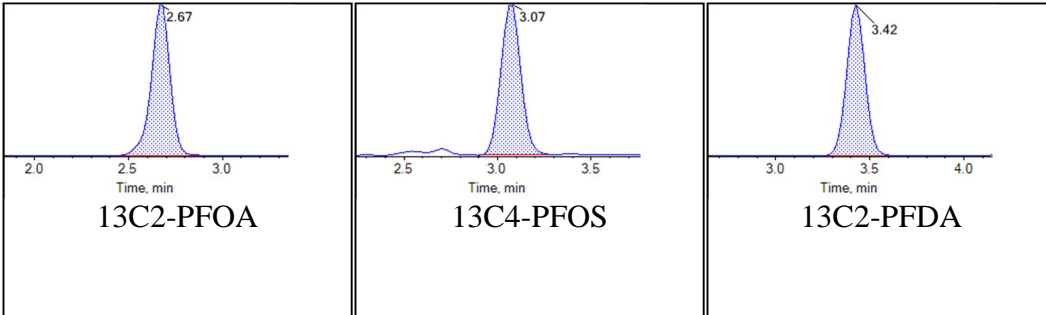


Chromatogram Report

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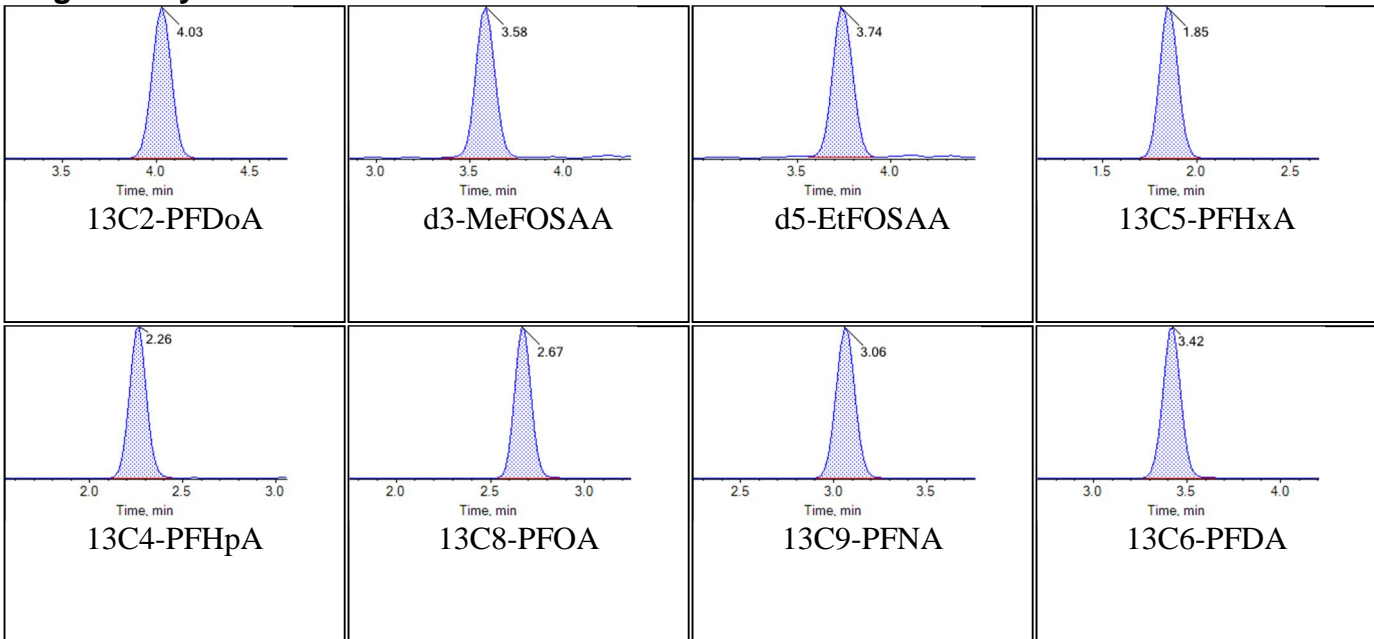
Internal Standards:



Sample Name	J8458-FS-D(3)	Injection Vial	42
Sample ID	VC-MS09-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:12:26	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

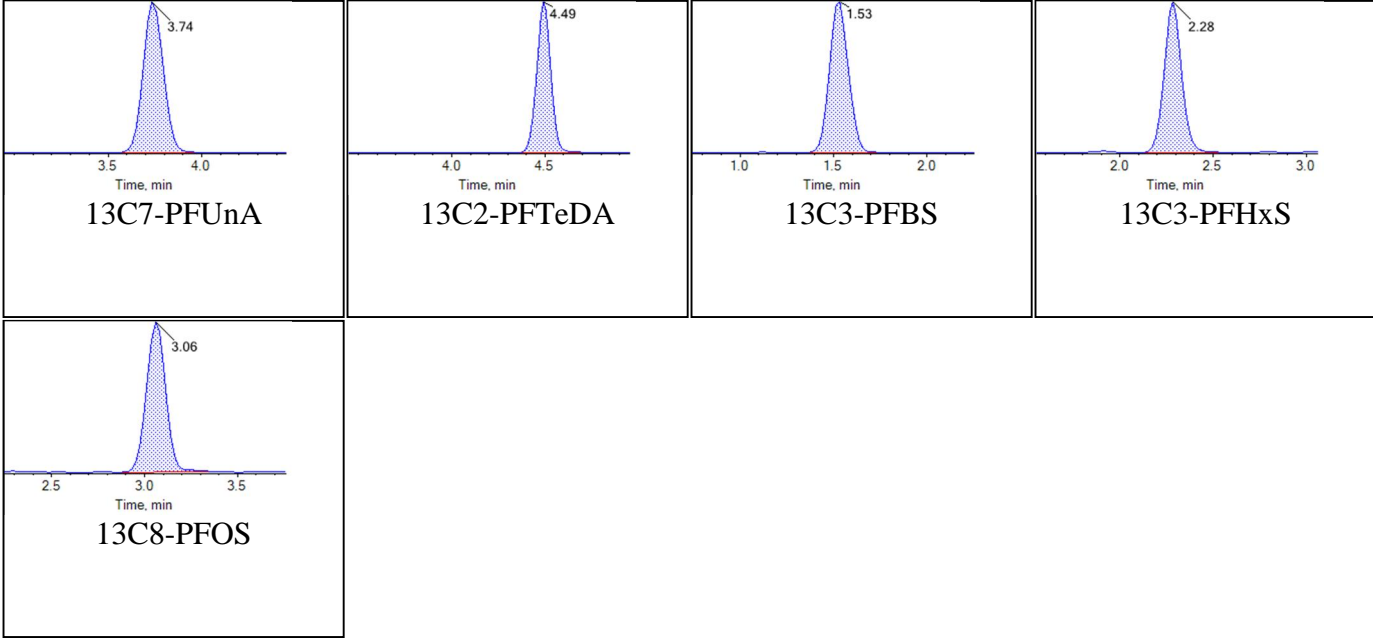
### Target Analytes:



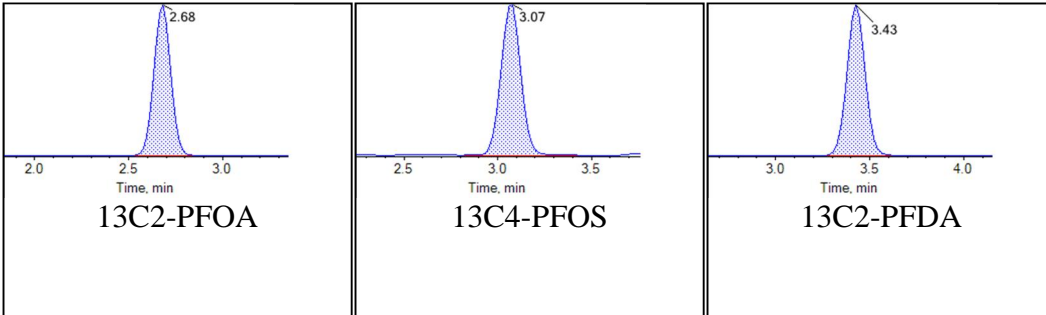


Chromatogram Report

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Internal Standards:

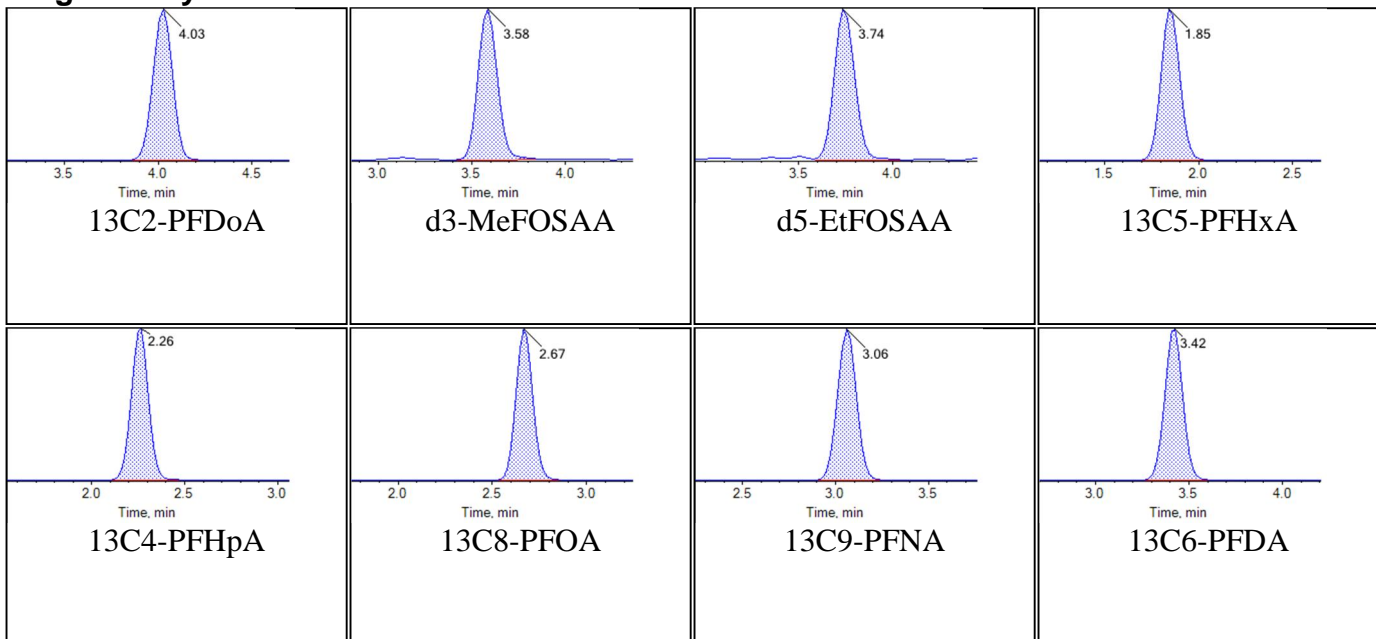




<b>Sample Name</b>	J8458-FS-D(5)	<b>Injection Vial</b>	43
<b>Sample ID</b>	VC-MS09-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:23:17	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

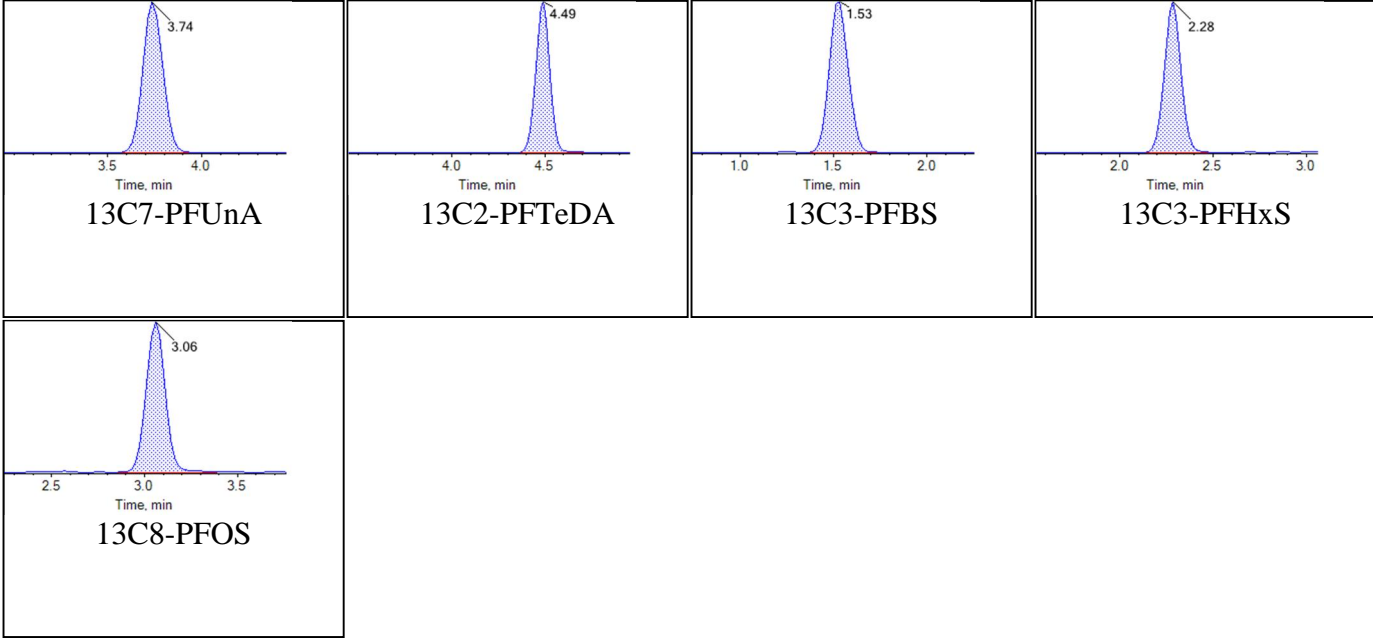
### Target Analytes:



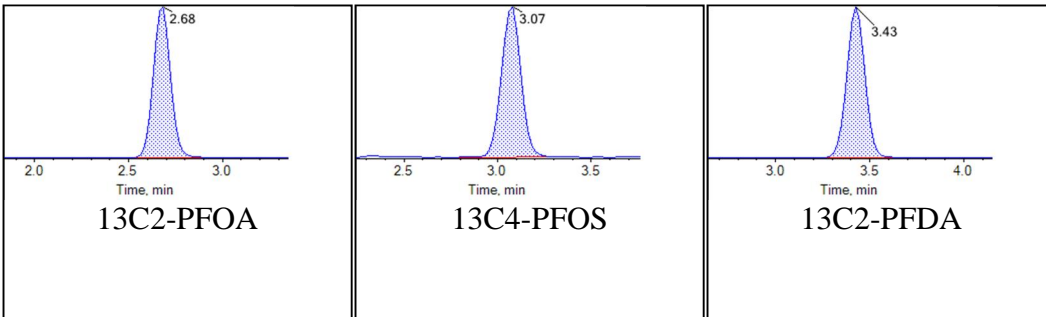


Chromatogram Report

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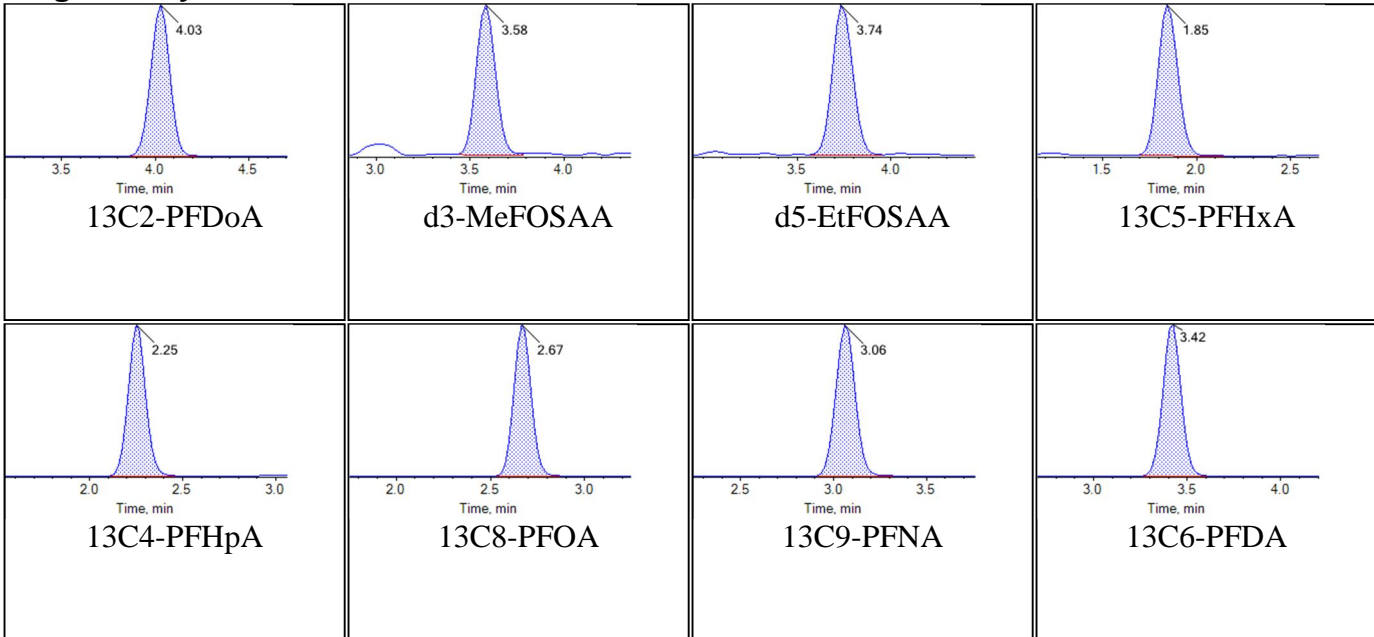
Internal Standards:

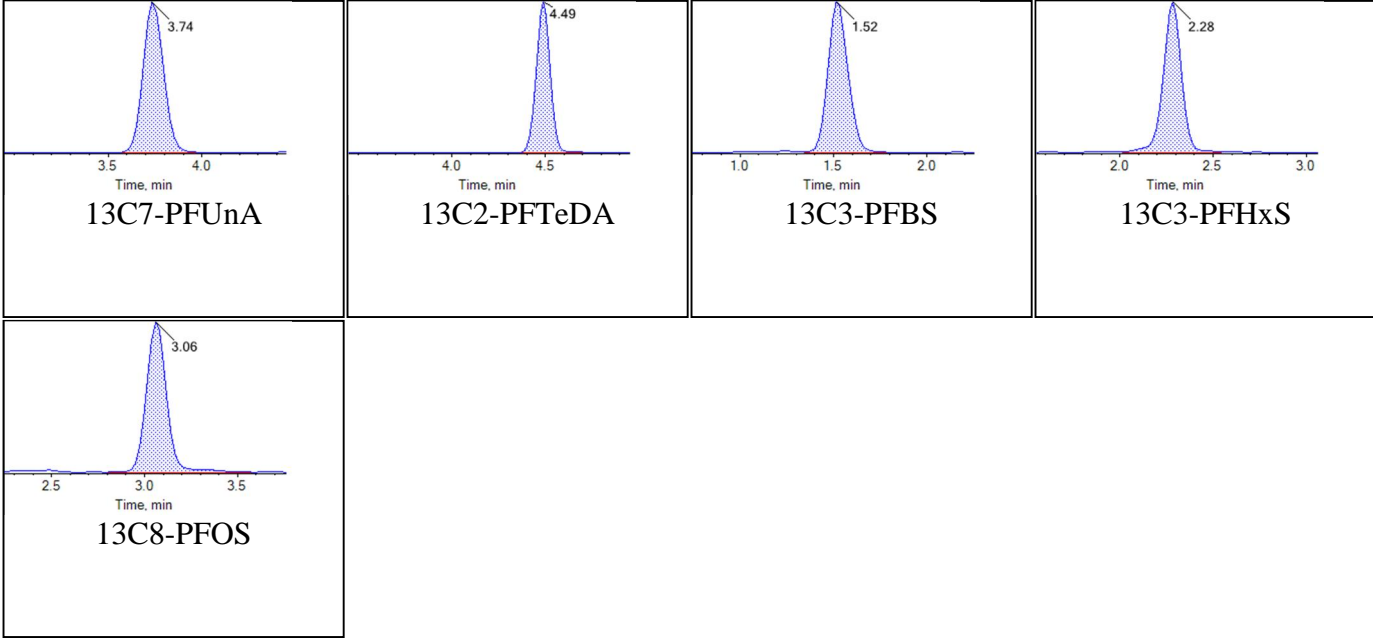


<b>Sample Name</b>	J8459-FS(0)	<b>Injection Vial</b>	44
<b>Sample ID</b>	VC-MS09-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:34:08	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

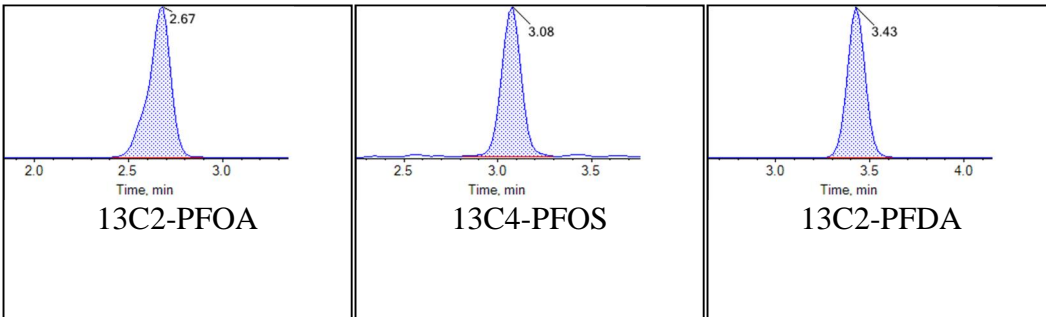
## Chromatograms

### Target Analytes:





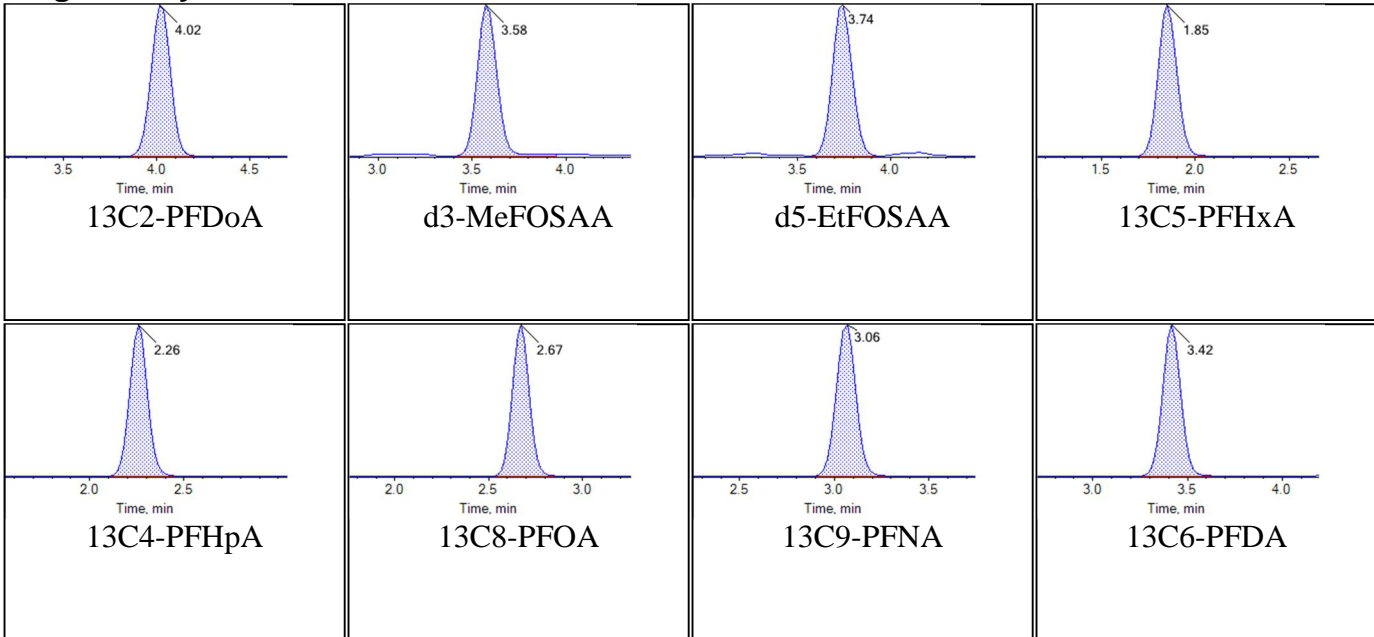
### Internal Standards:



Sample Name	J8459-FS-D(3)	Injection Vial	45
Sample ID	VC-MS09-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T03:44:59	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

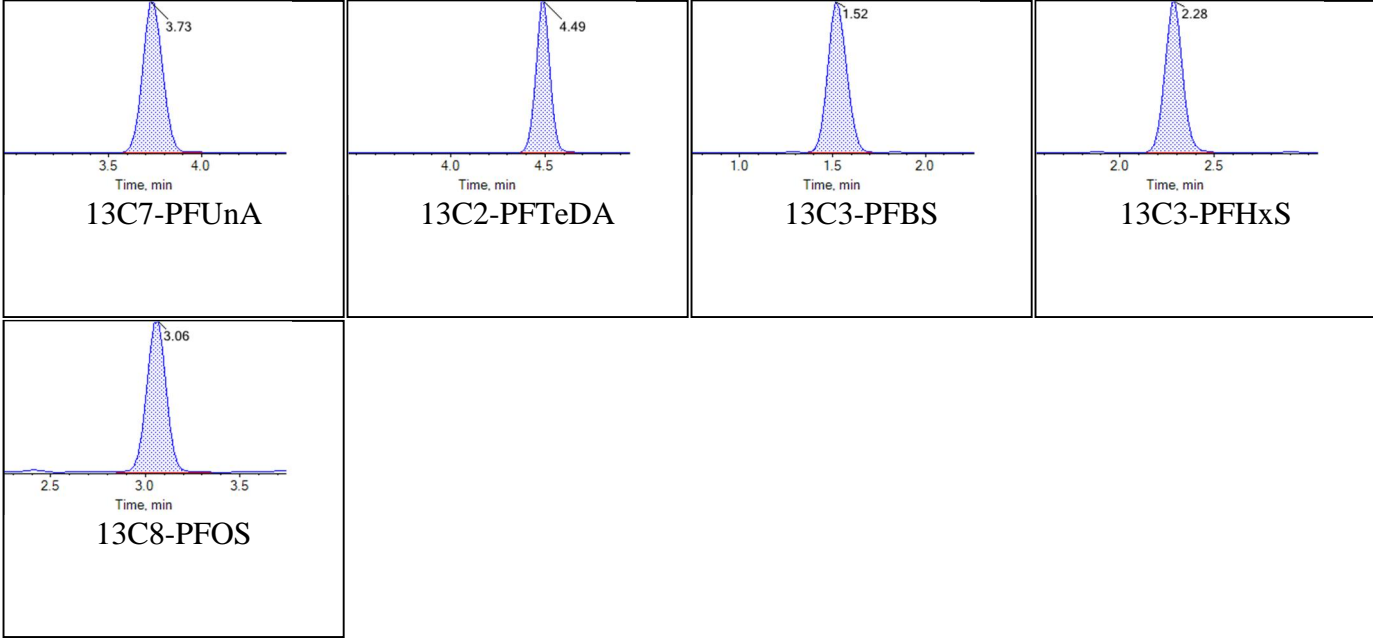
### Target Analytes:



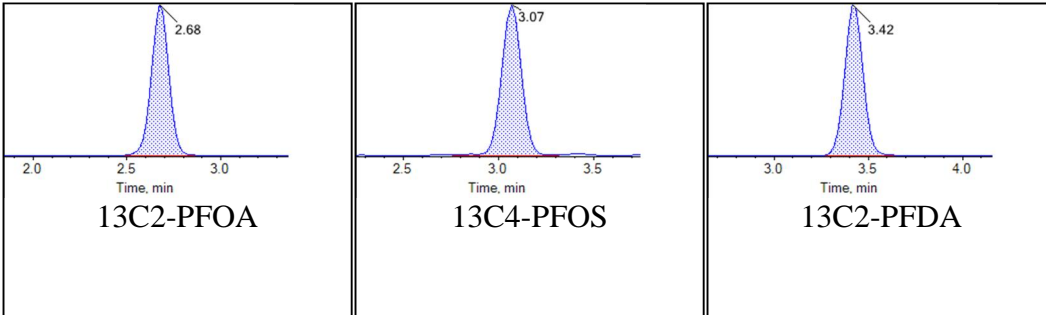


Chromatogram Report

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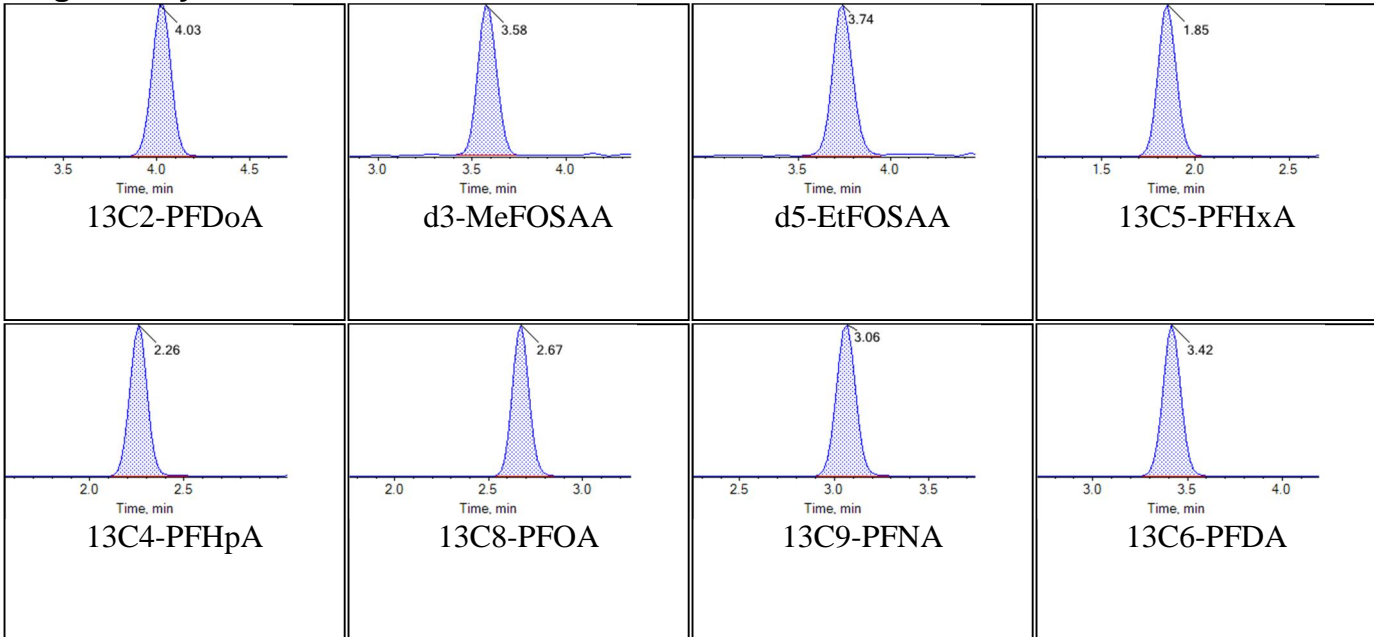
Internal Standards:

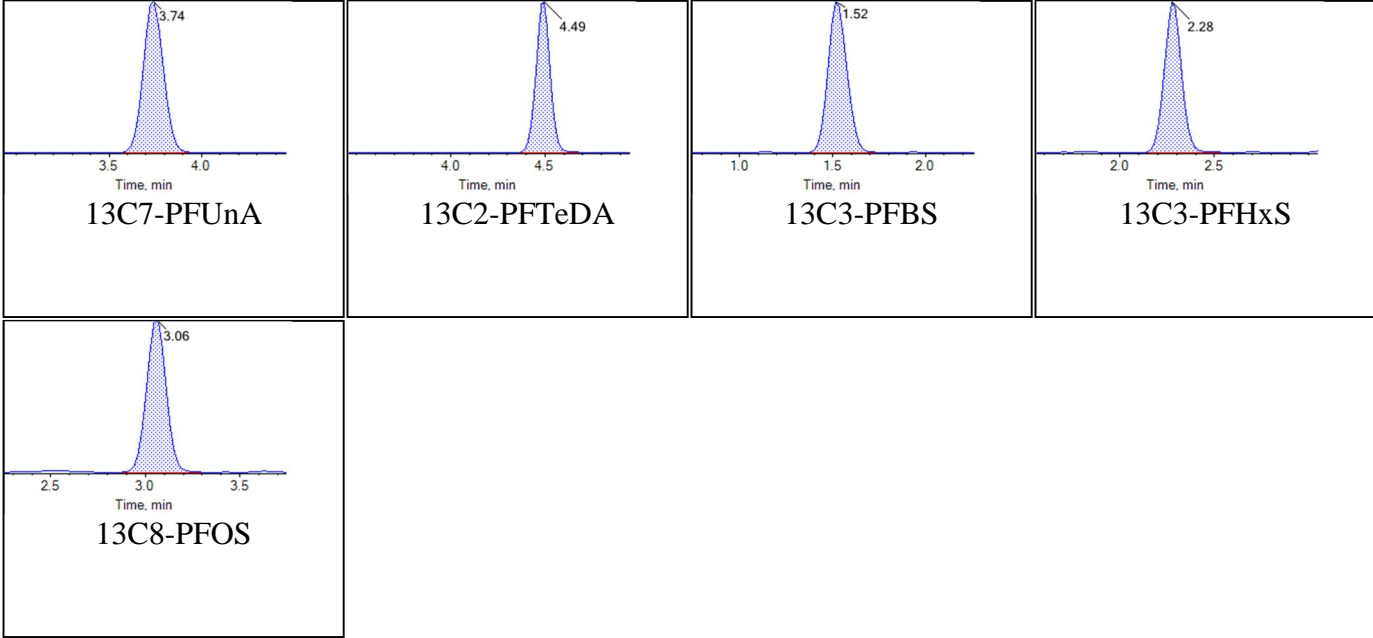


<b>Sample Name</b>	J8459-FS-D(5)	<b>Injection Vial</b>	46
<b>Sample ID</b>	VC-MS09-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T03:55:51	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

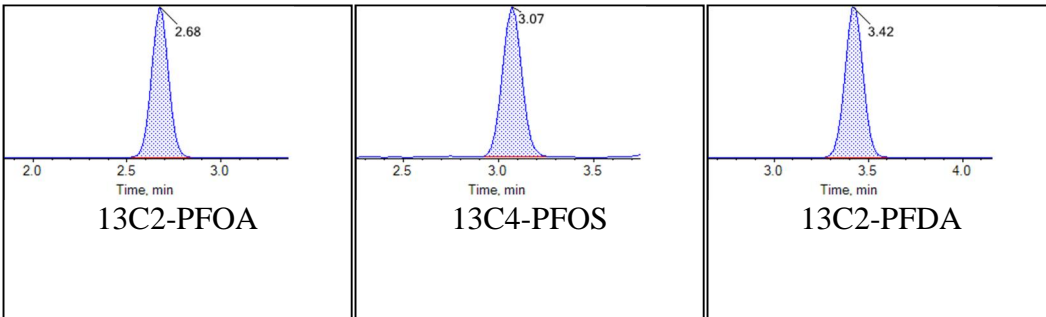
## Chromatograms

### Target Analytes:





### Internal Standards:

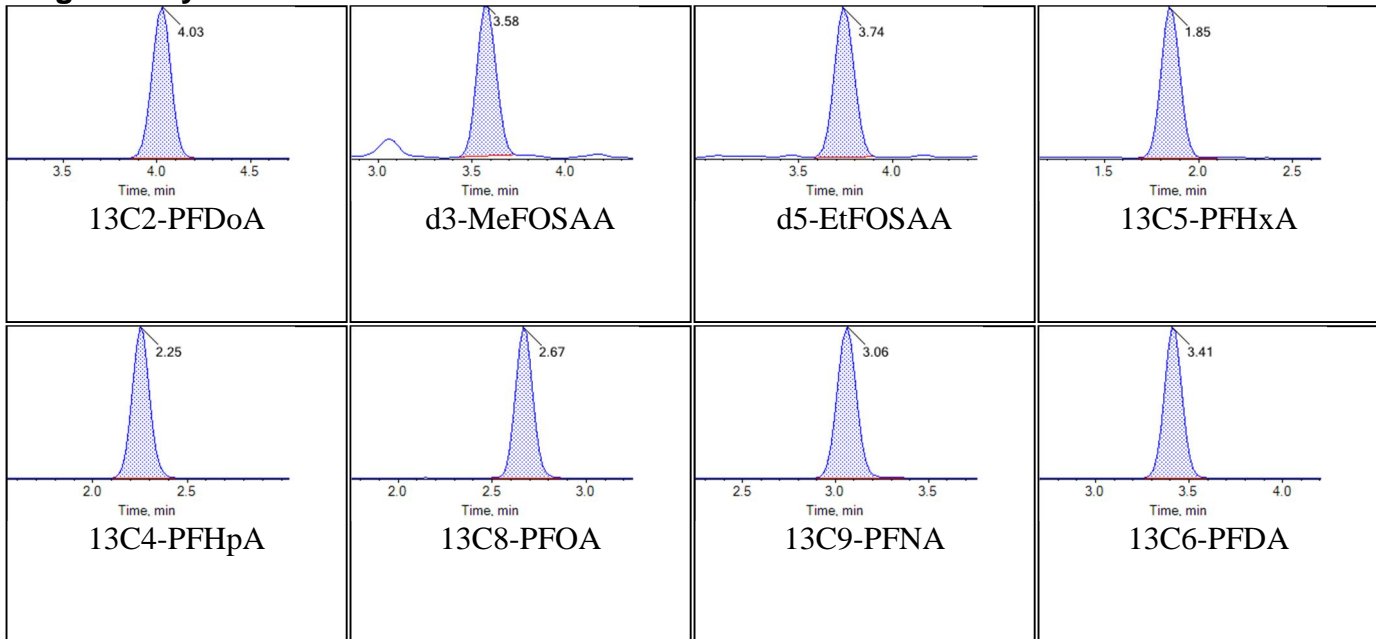


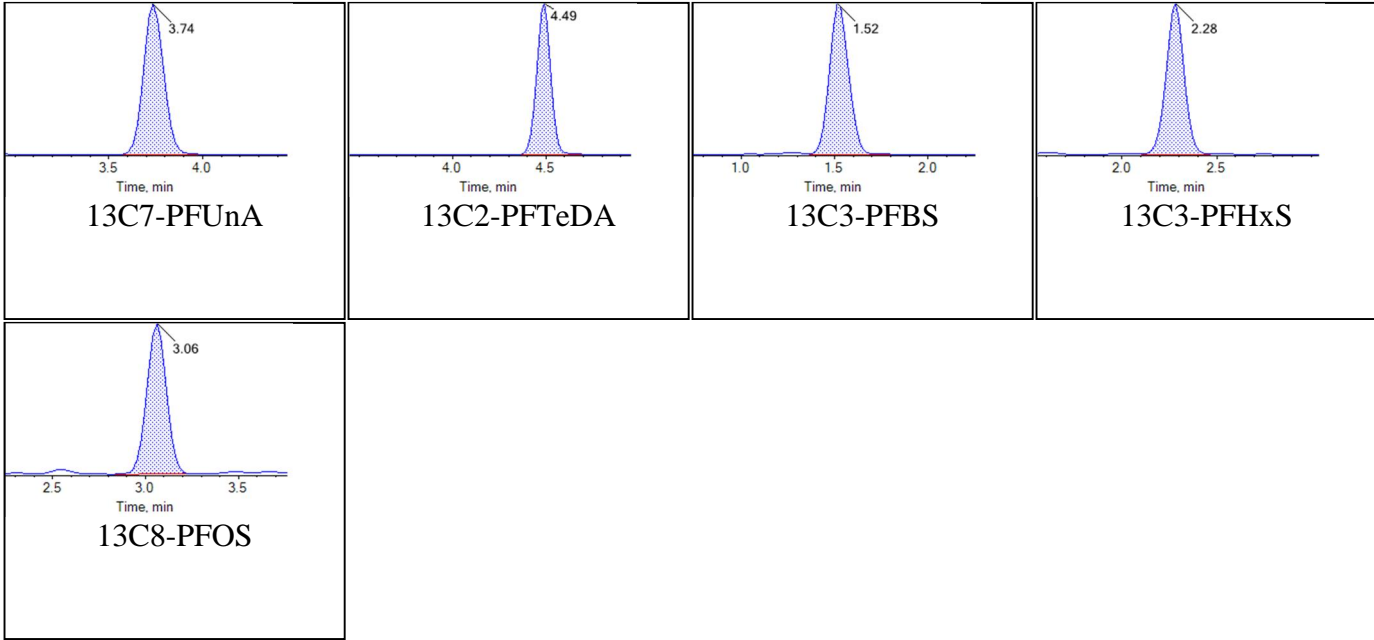


<b>Sample Name</b>	J8460-FS(0)	<b>Injection Vial</b>	47
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:06:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

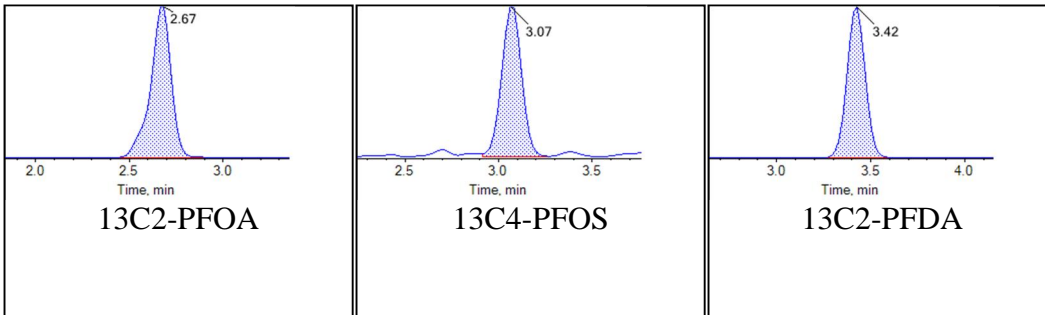
## Chromatograms

### Target Analytes:





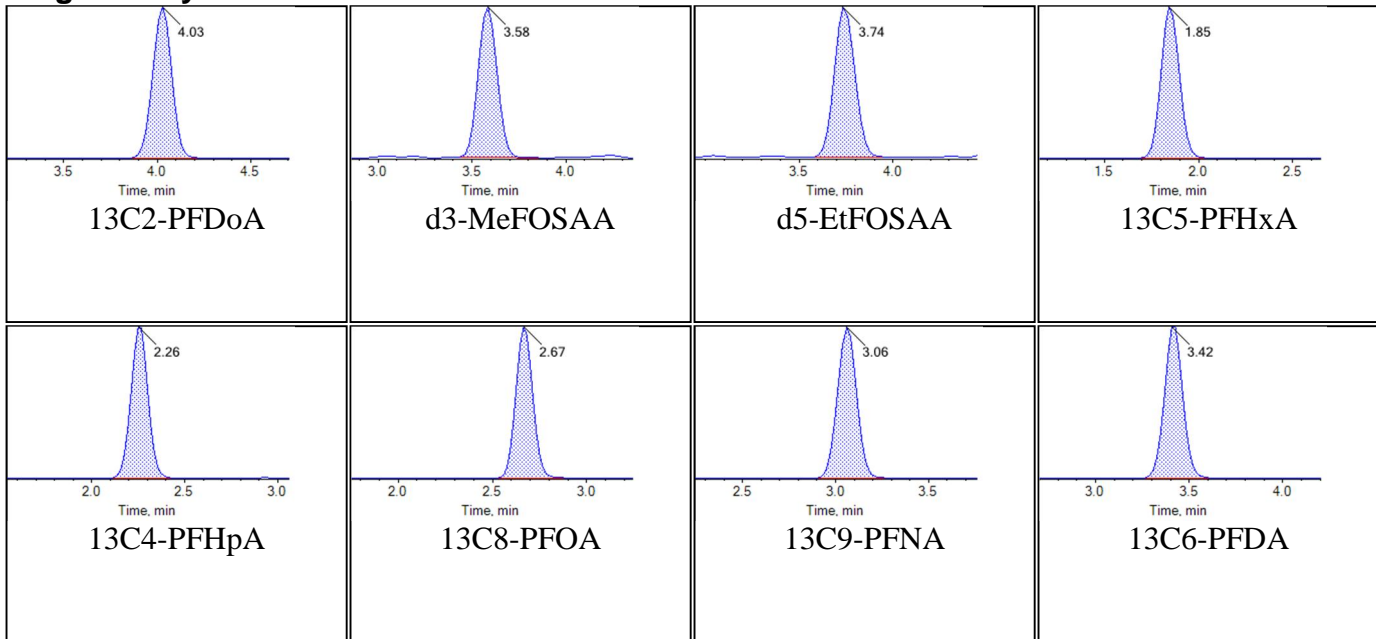
### Internal Standards:



<b>Sample Name</b>	J8460-FS-D(3)	<b>Injection Vial</b>	48
<b>Sample ID</b>	VC-MS09-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:17:36	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

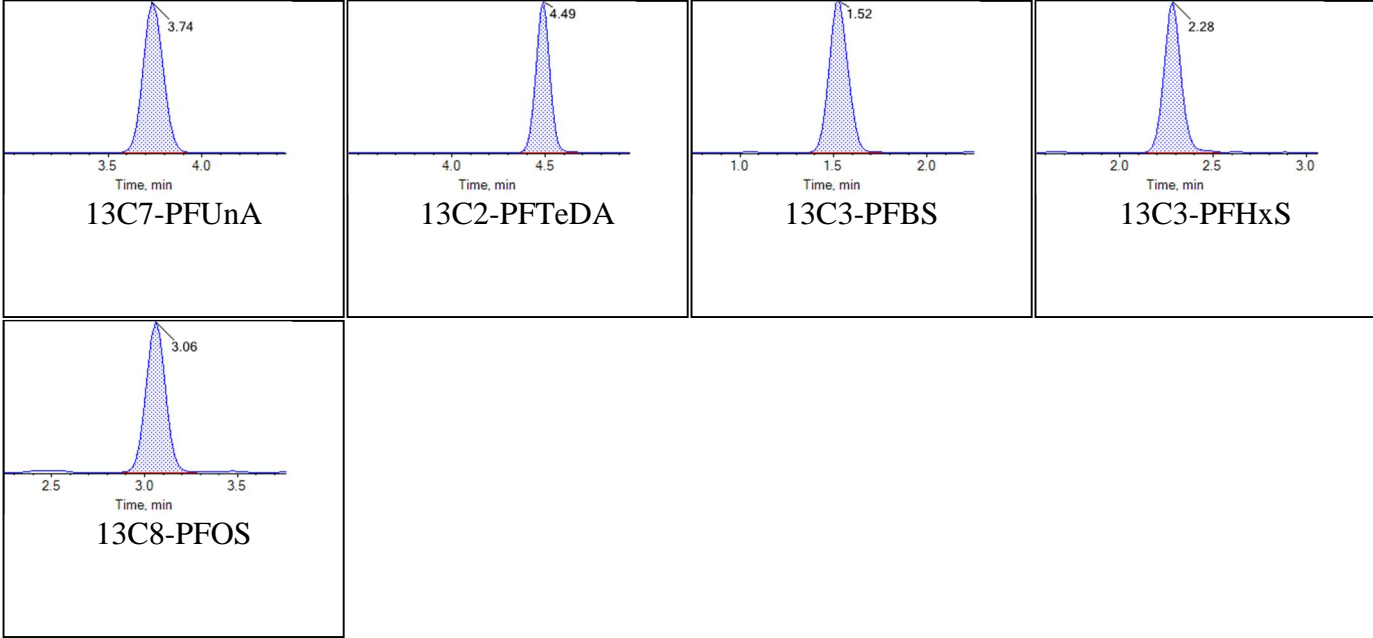
### Target Analytes:



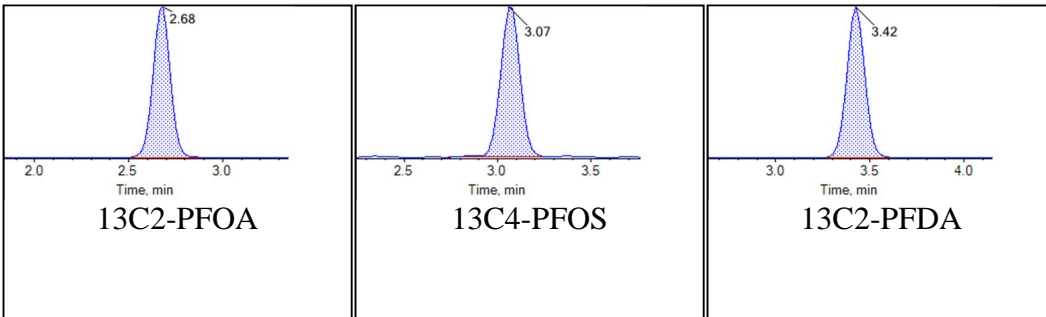


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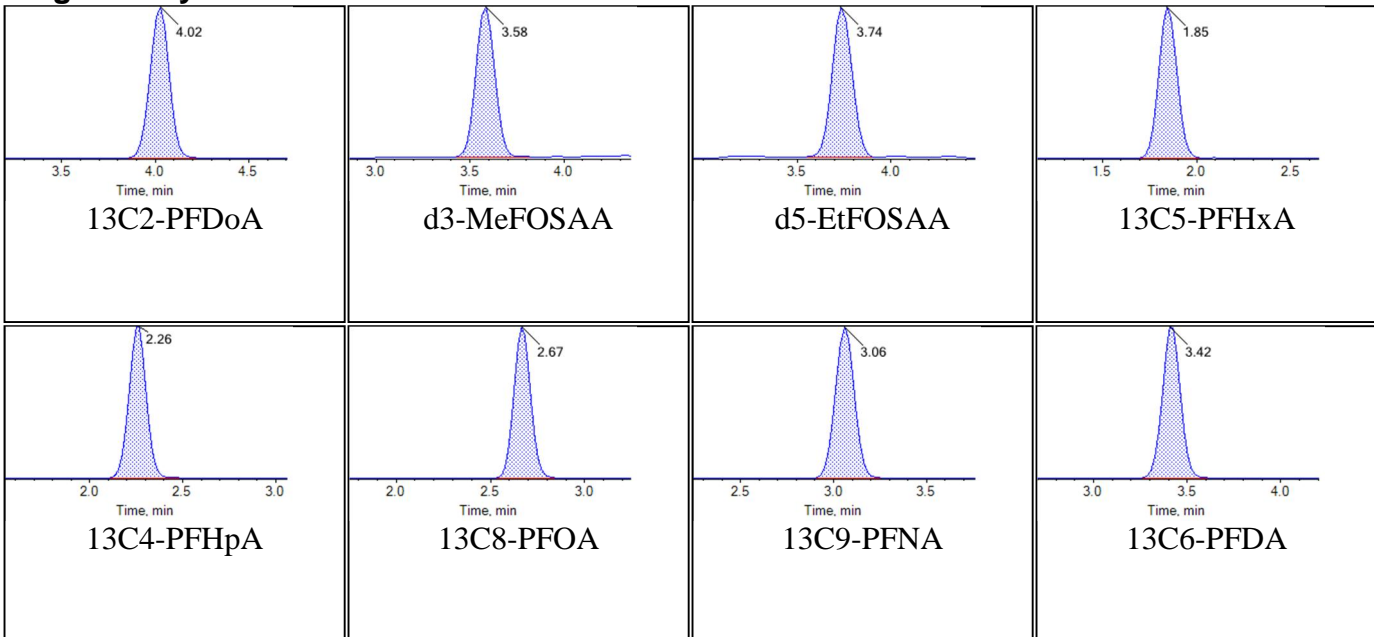
Internal Standards:



Sample Name	J8460-FS-D(5)	Injection Vial	49
Sample ID	VC-MS09-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T04:28:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

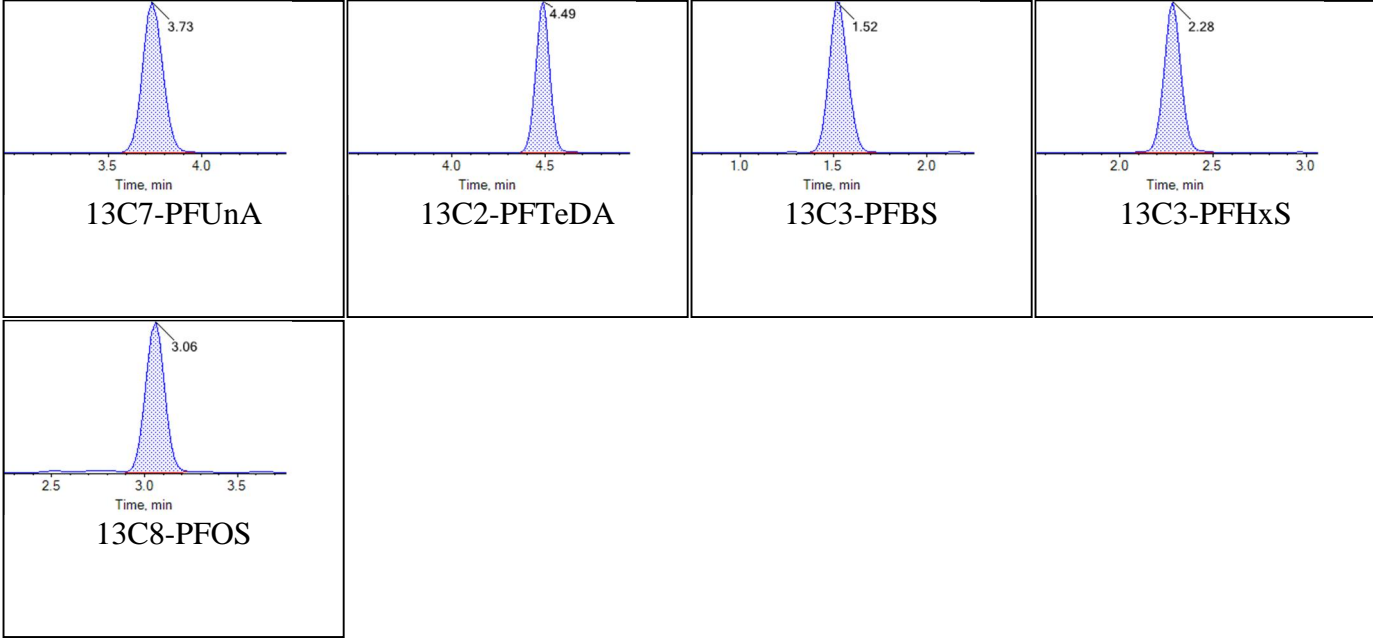
### Target Analytes:



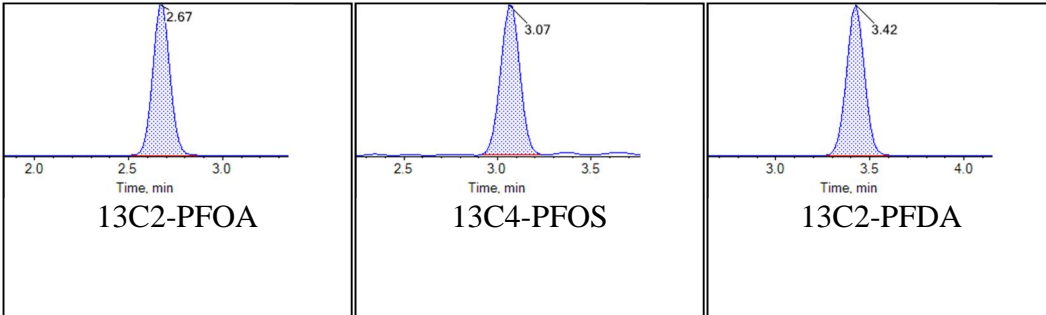


Chromatogram Report

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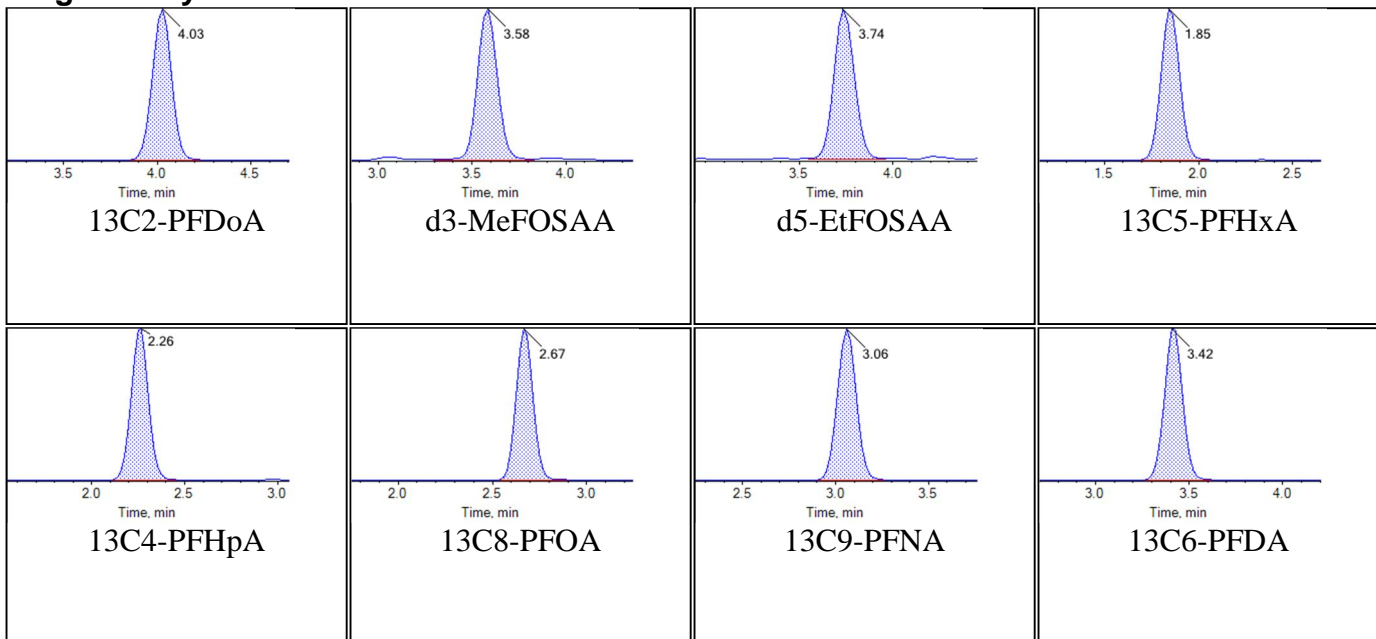
Internal Standards:

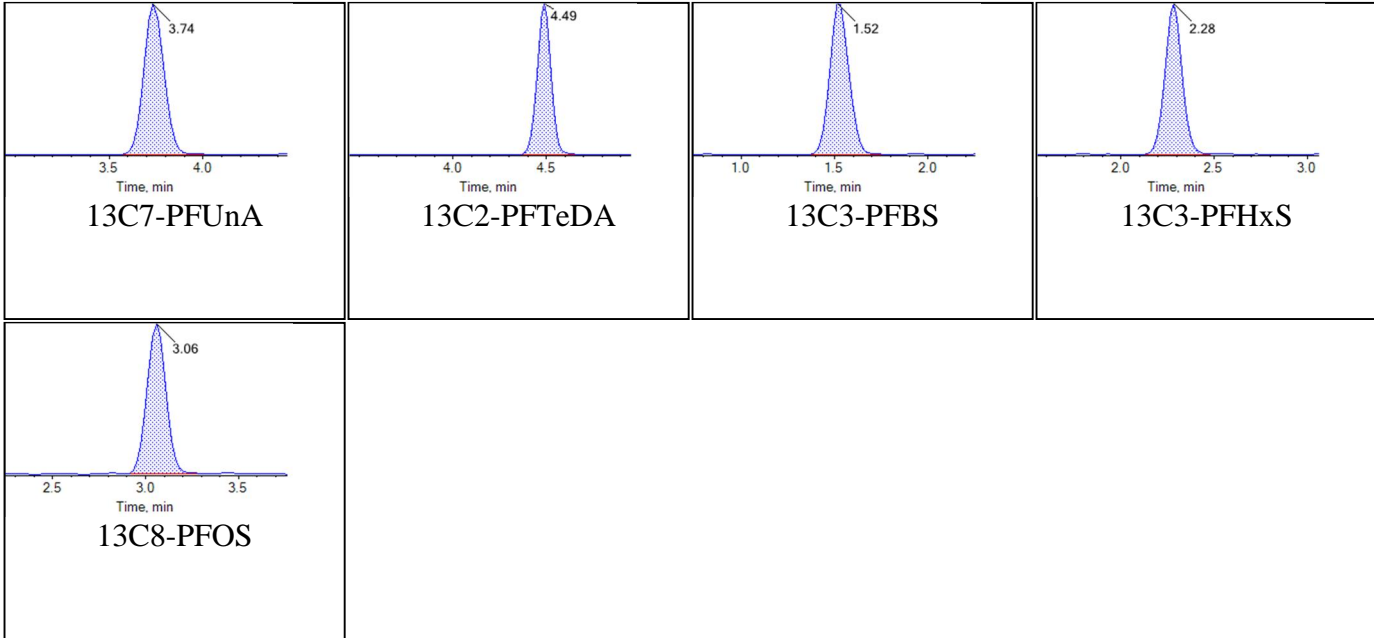


<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	50
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T04:39:20	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

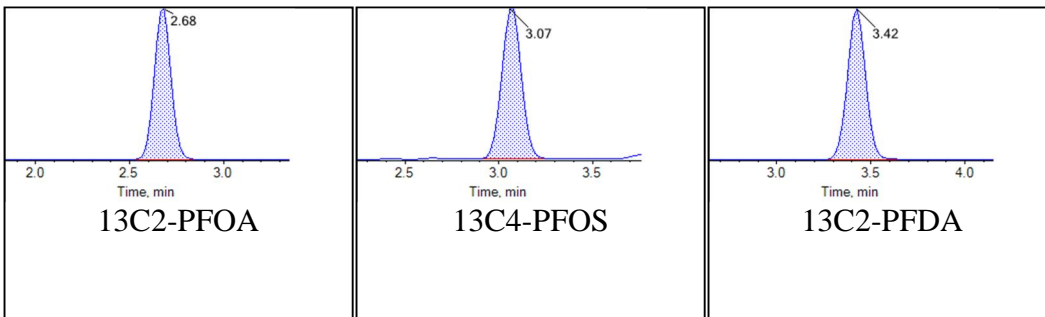
## Chromatograms

### Target Analytes:





### Internal Standards:

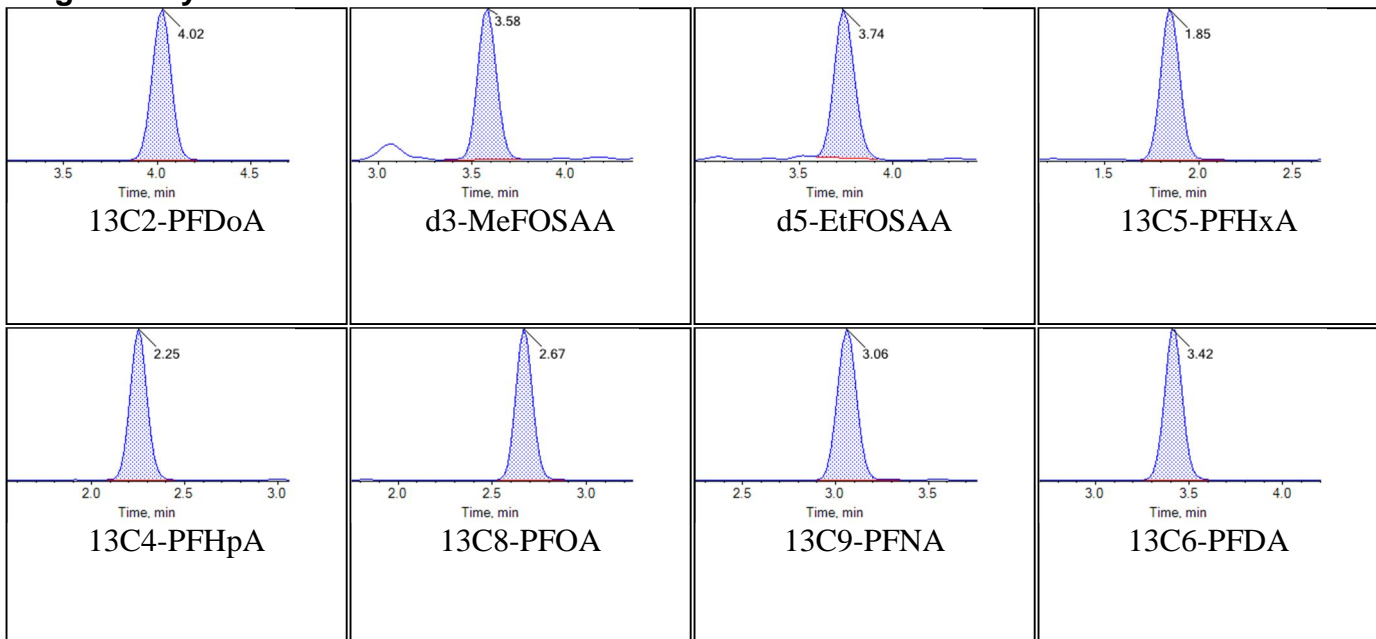




Sample Name	J8461-FS(0)	Injection Vial	52
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:01:04	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

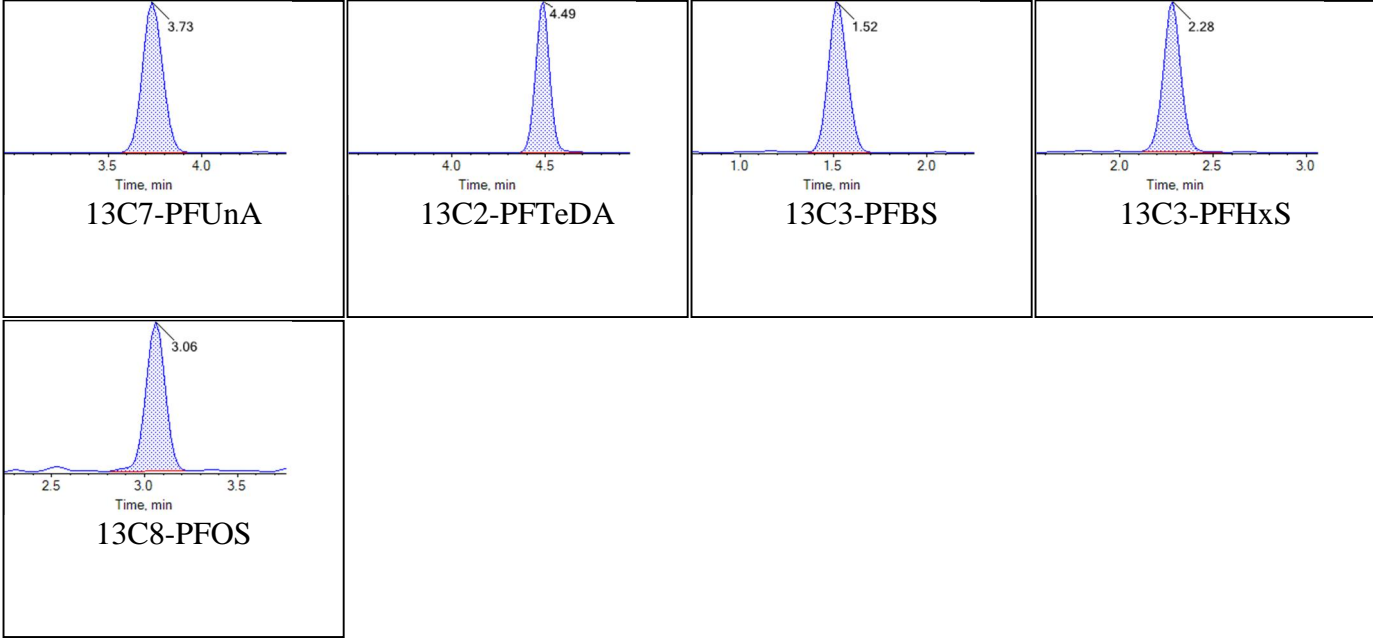
### Target Analytes:



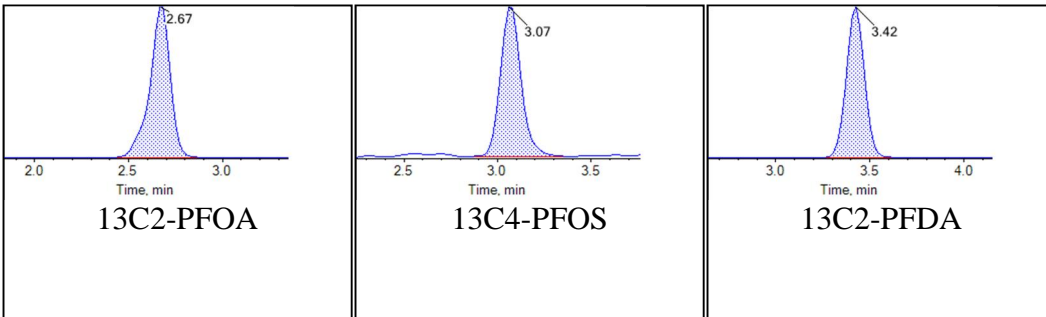


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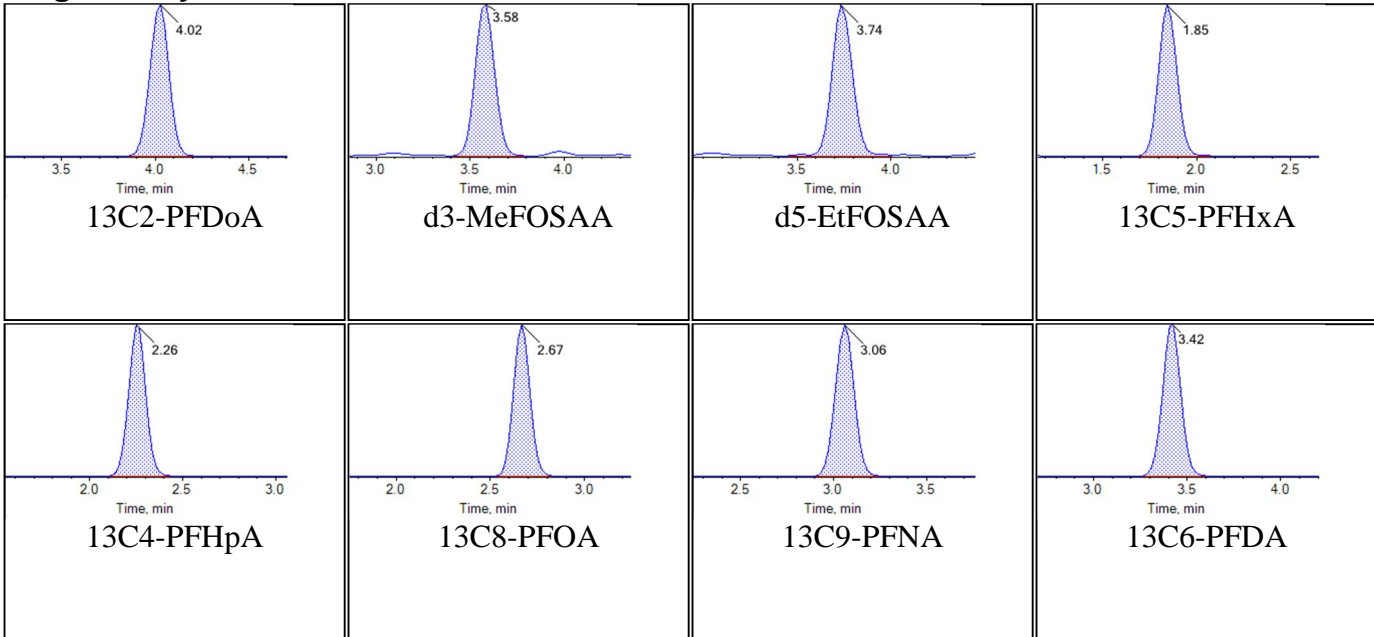
Internal Standards:

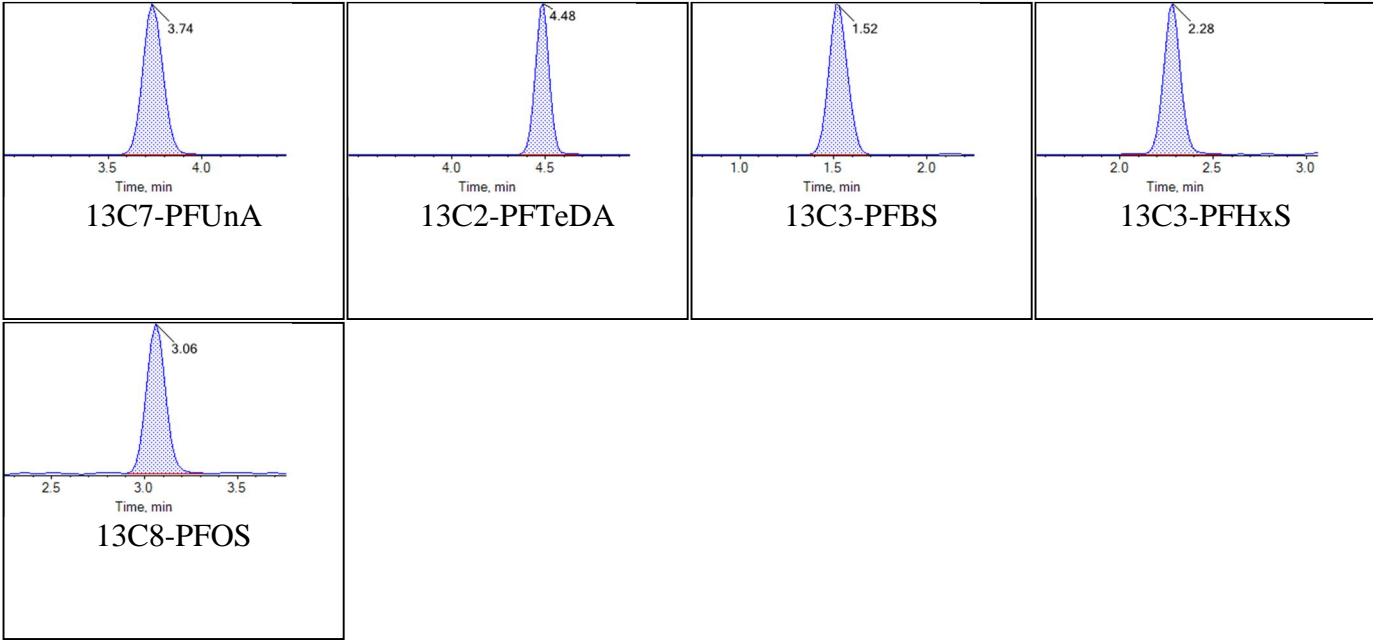


<b>Sample Name</b>	J8461-FS-D(3)	<b>Injection Vial</b>	53
<b>Sample ID</b>	VC-MS09-DW04P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:11:56	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

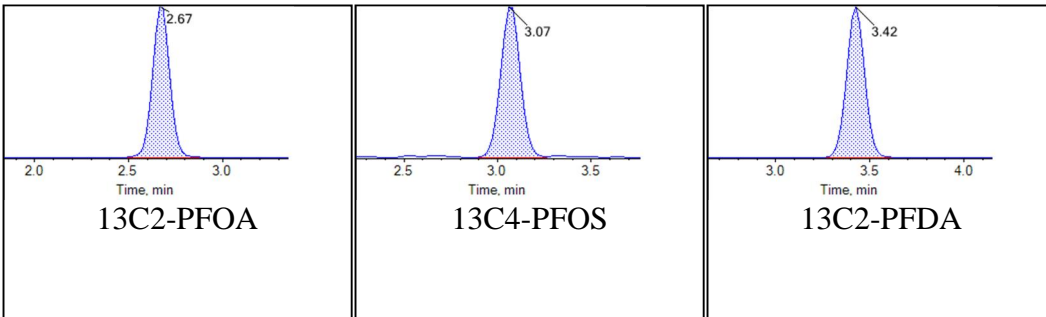
## Chromatograms

### Target Analytes:





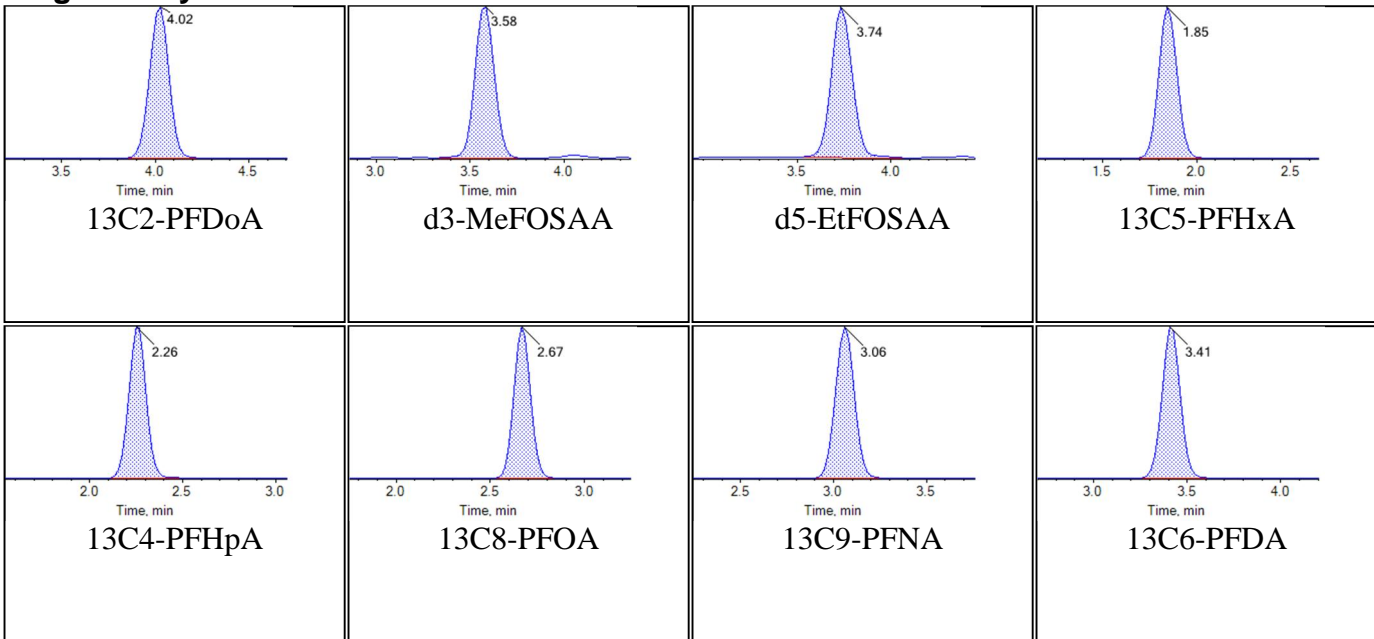
### Internal Standards:



Sample Name	J8461-FS-D(5)	Injection Vial	54
Sample ID	VC-MS09-DW04P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T05:22:47	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

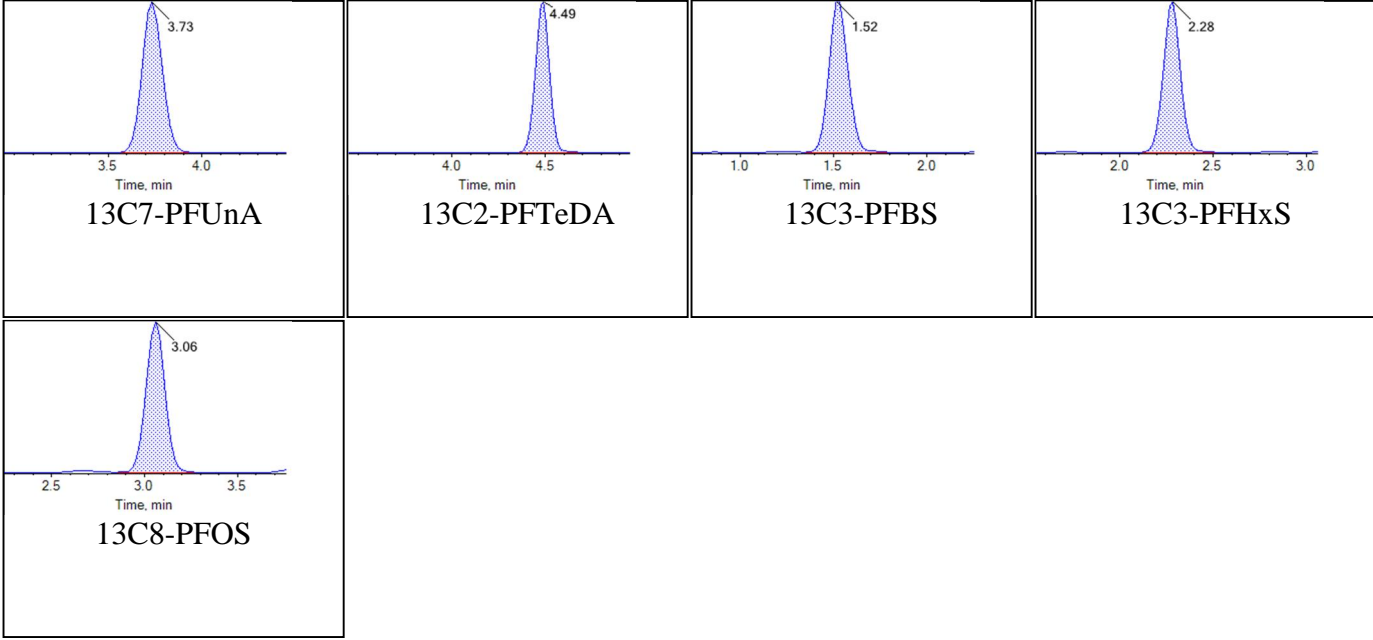
### Target Analytes:



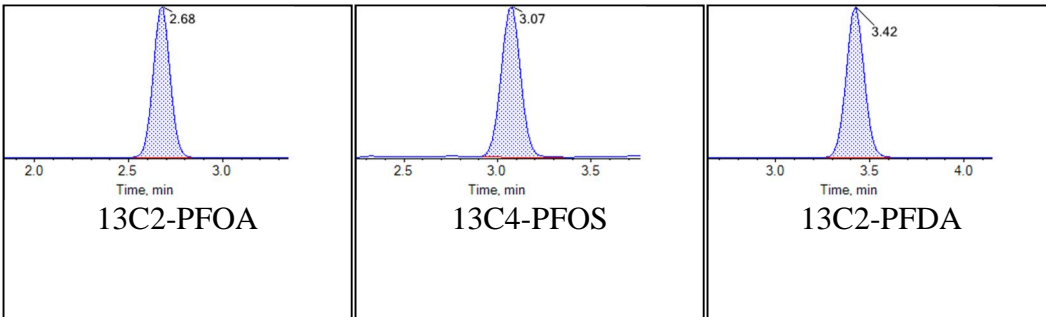


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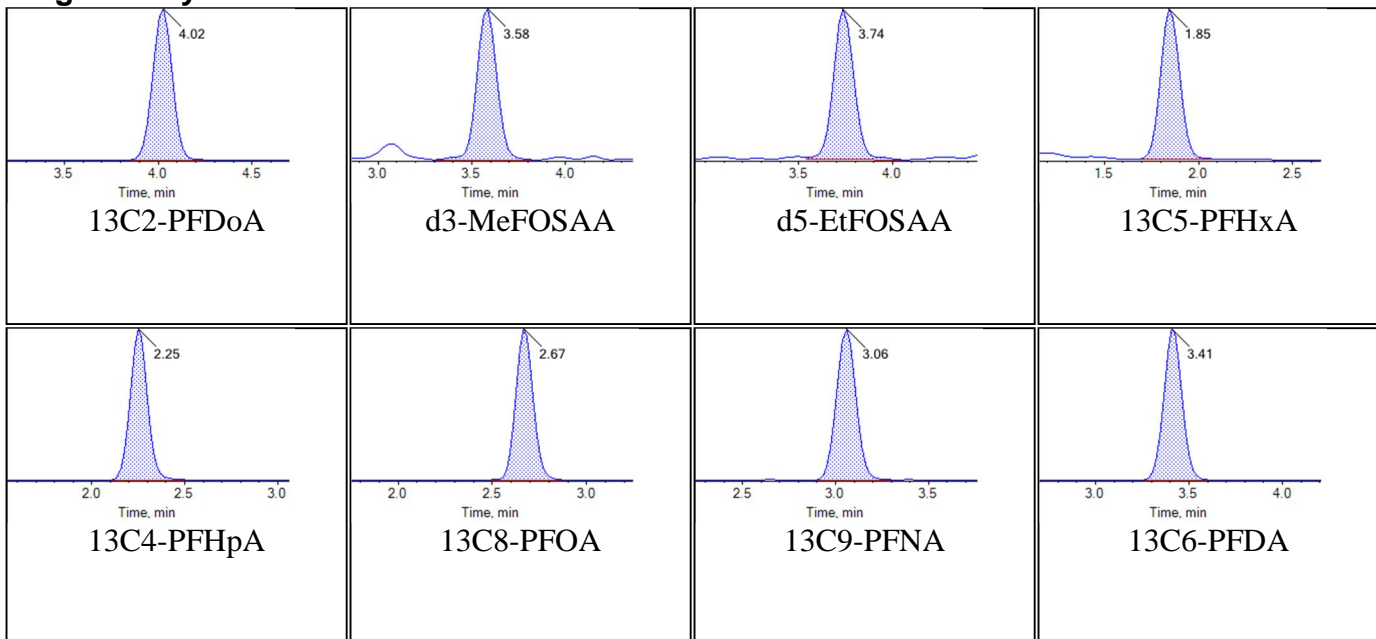
Internal Standards:



<b>Sample Name</b>	J8462-FS(0)	<b>Injection Vial</b>	1
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:33:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

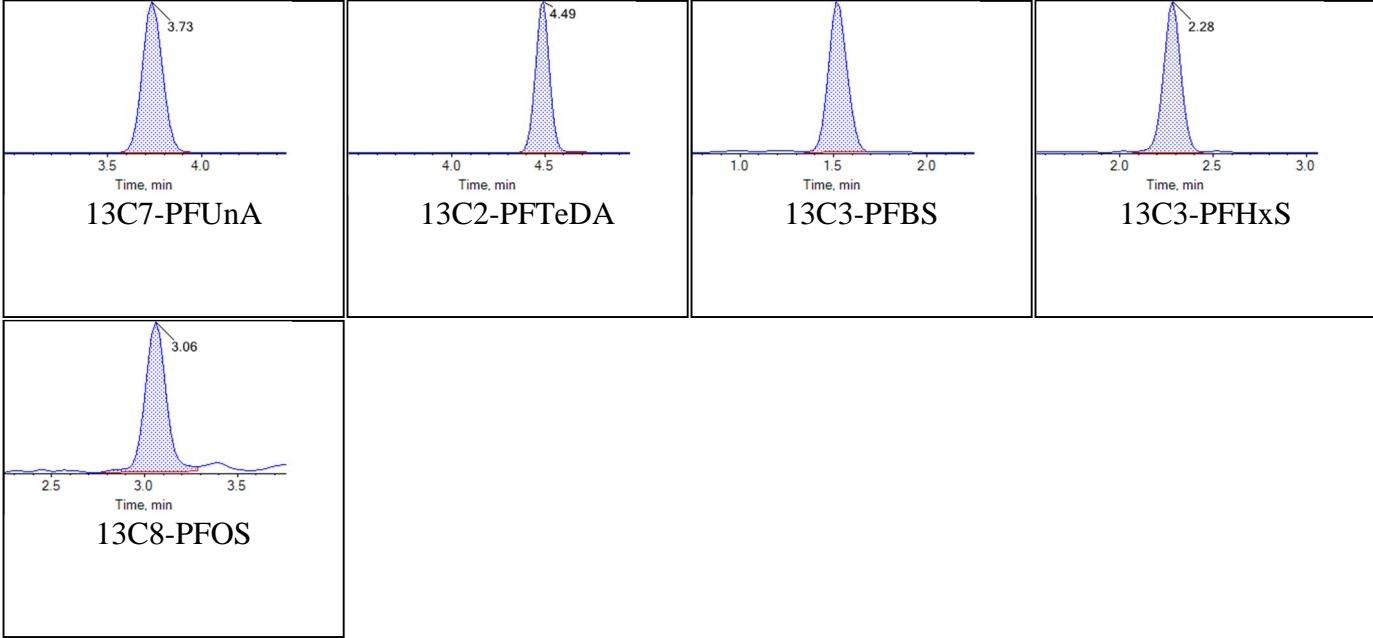
### Target Analytes:



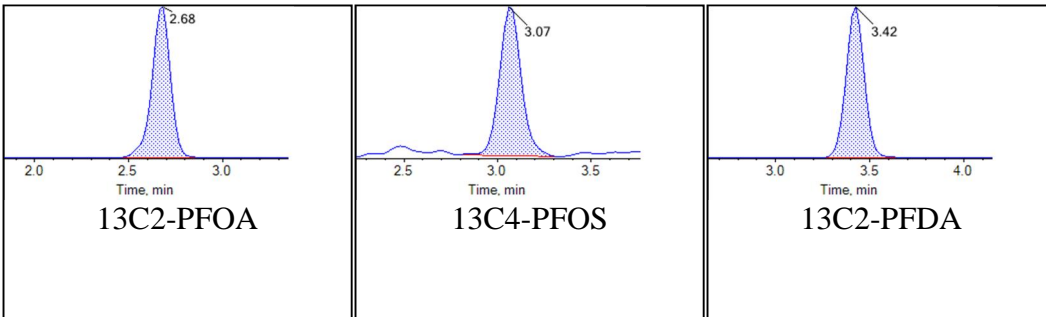


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Internal Standards:

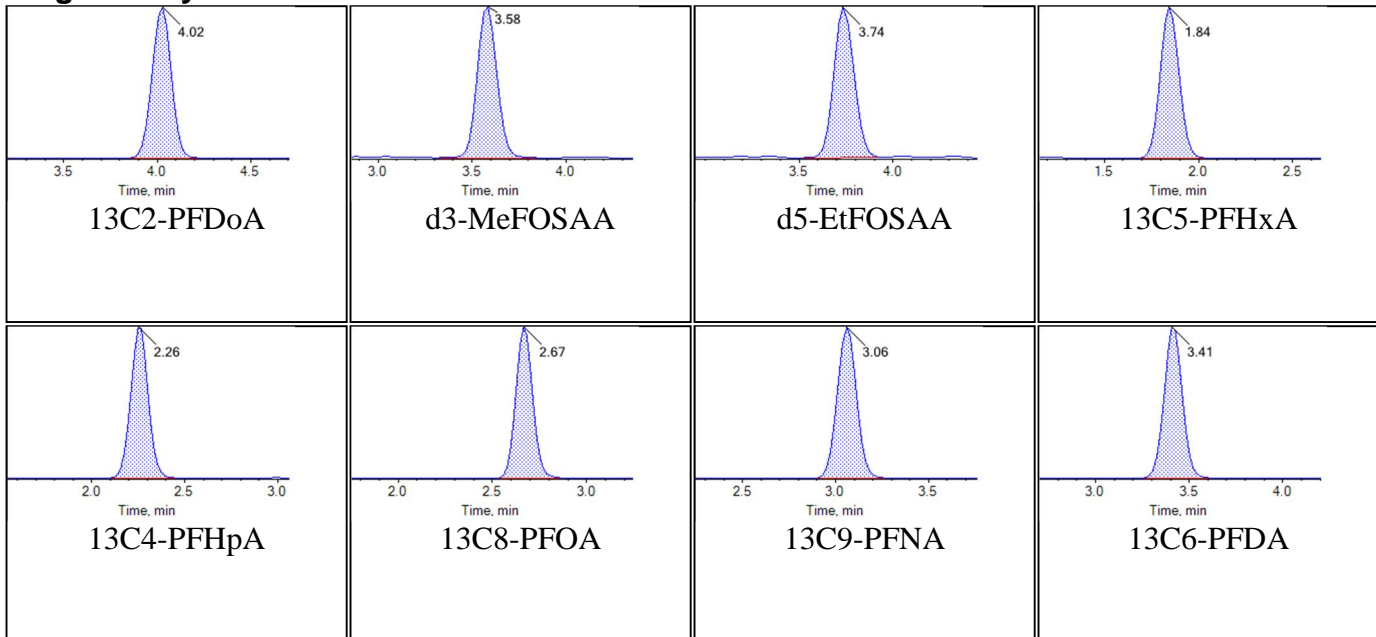




<b>Sample Name</b>	J8462-FS-D(3)	<b>Injection Vial</b>	2
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:44:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

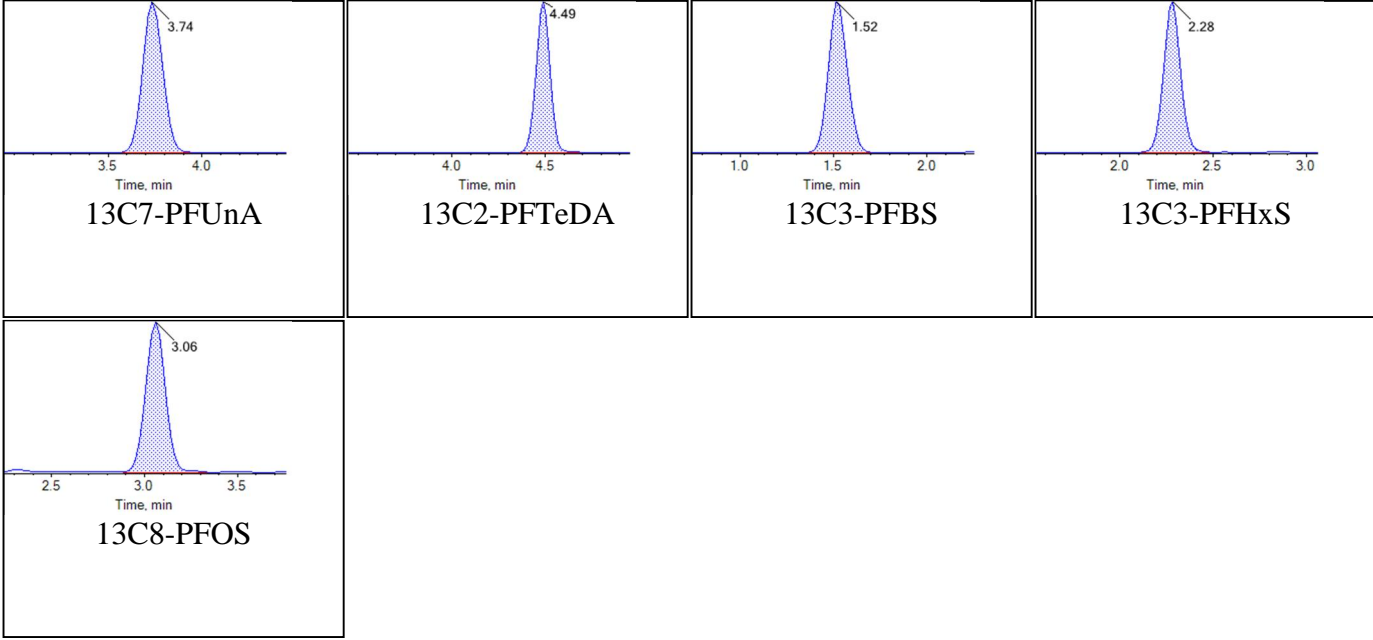
### Target Analytes:



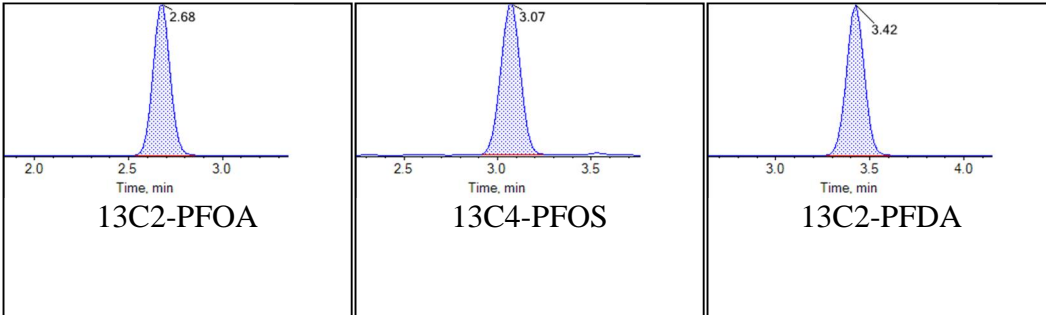


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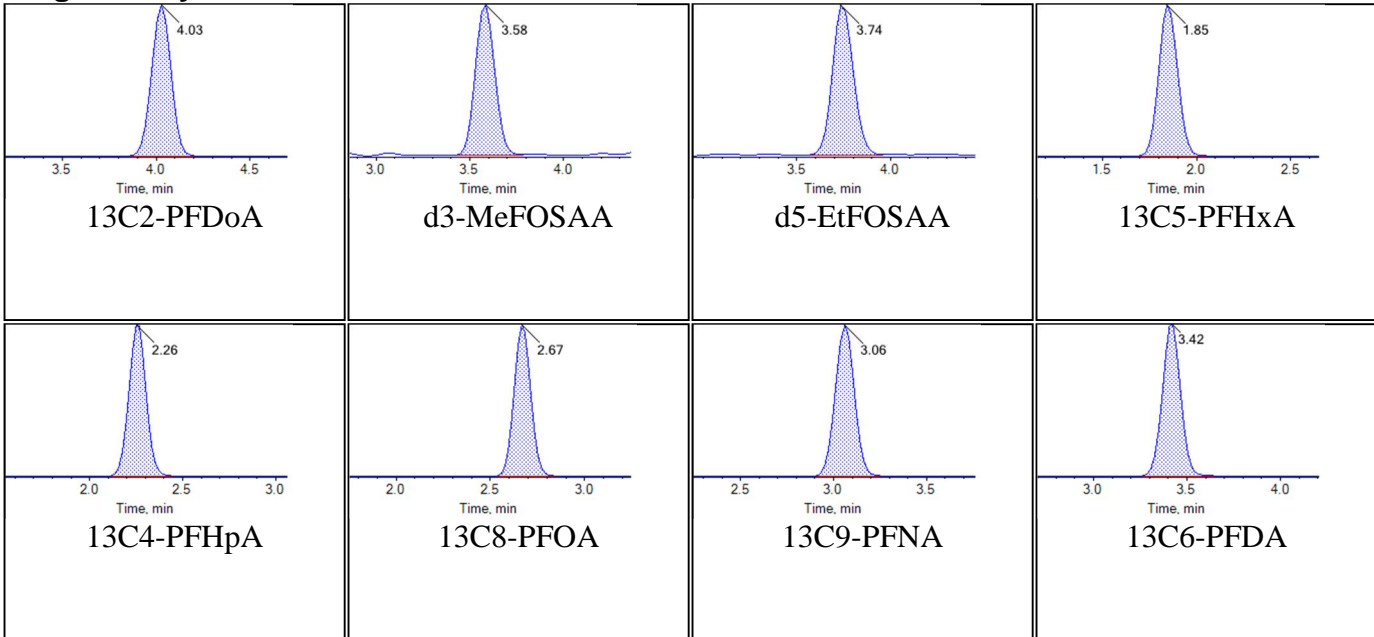
Internal Standards:

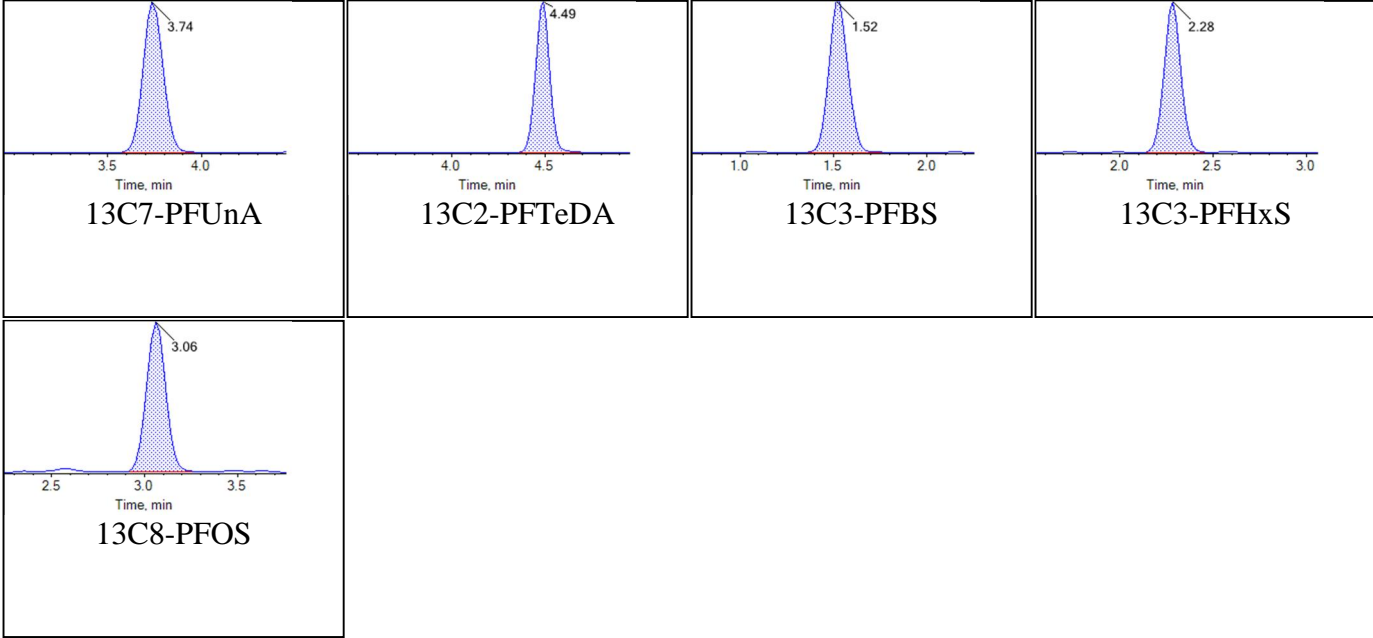


<b>Sample Name</b>	J8462-FS-D(5)	<b>Injection Vial</b>	3
<b>Sample ID</b>	VC-MS09-DW05-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T05:55:26	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

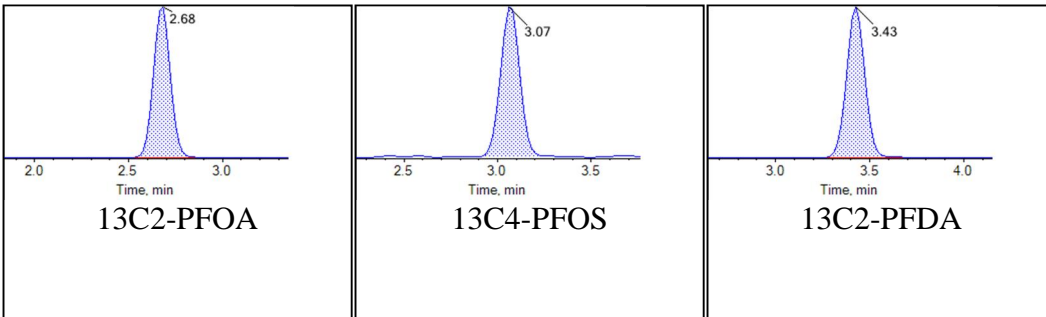
## Chromatograms

### Target Analytes:





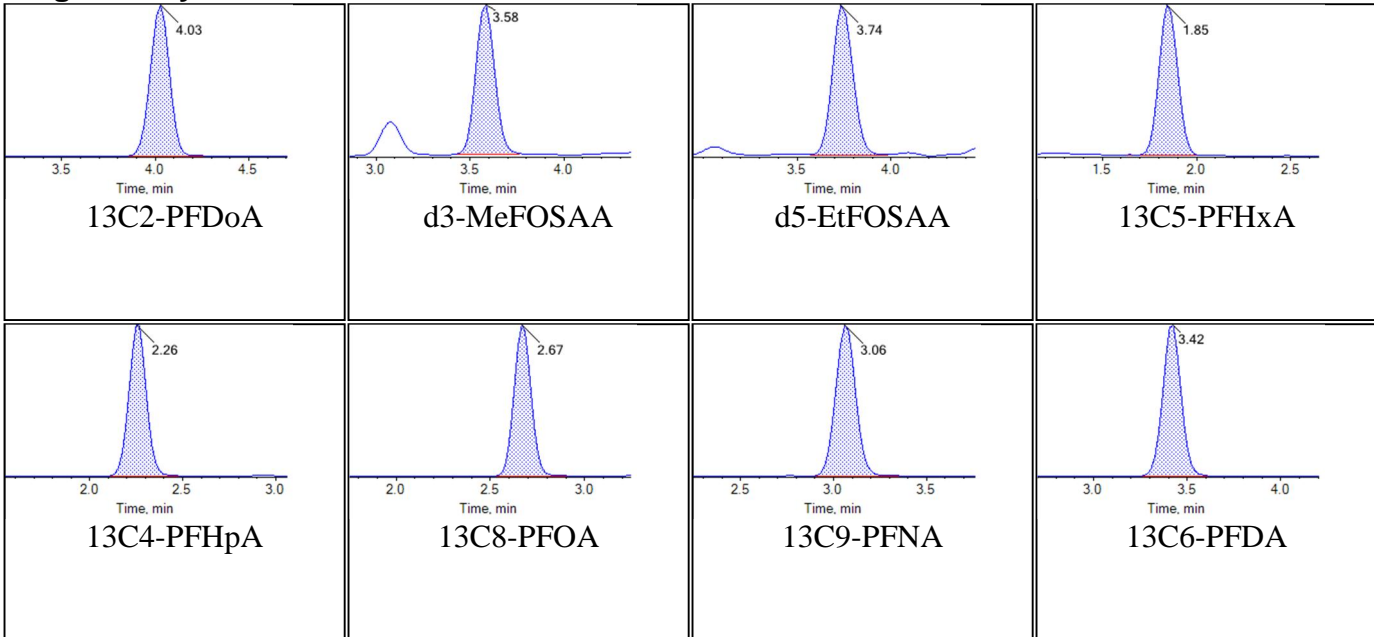
### Internal Standards:



Sample Name	J8463MS-FS(0)	Injection Vial	4
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:06:18	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

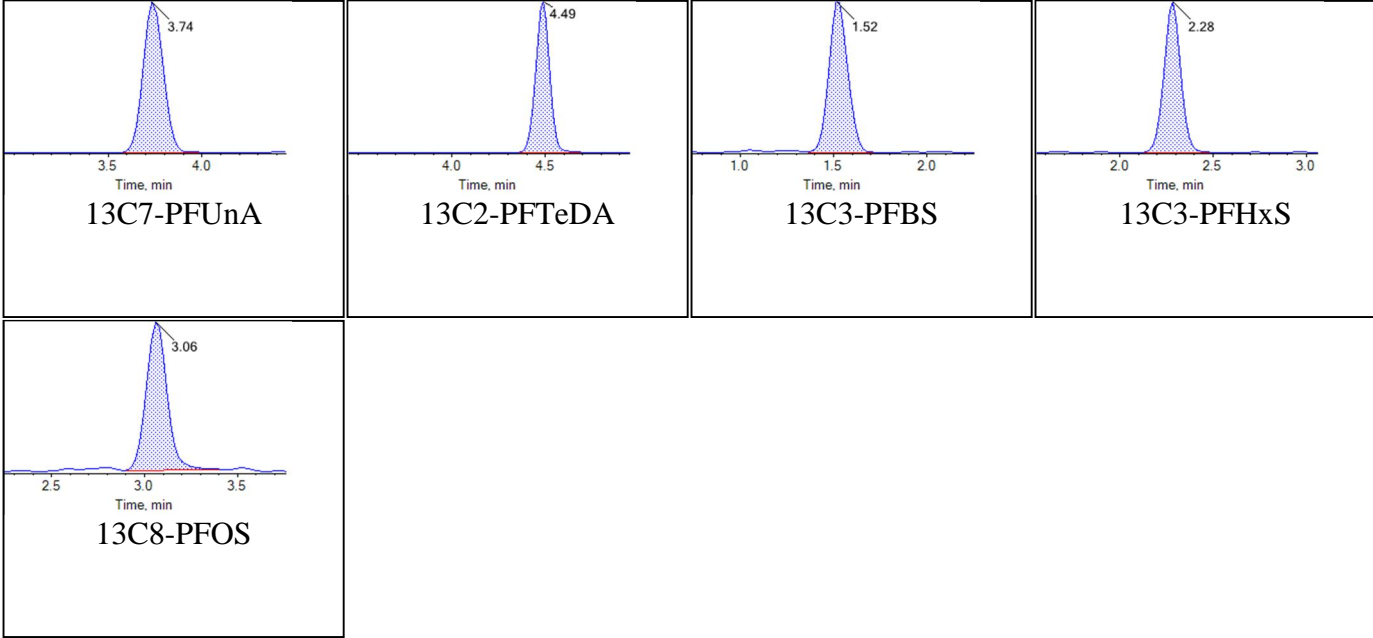
### Target Analytes:



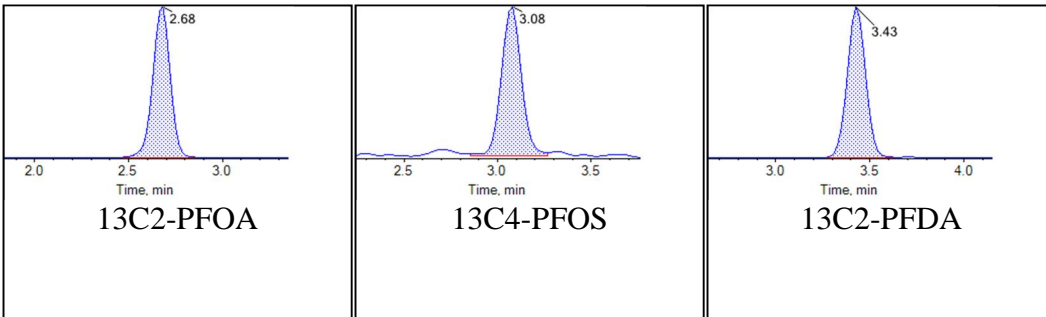


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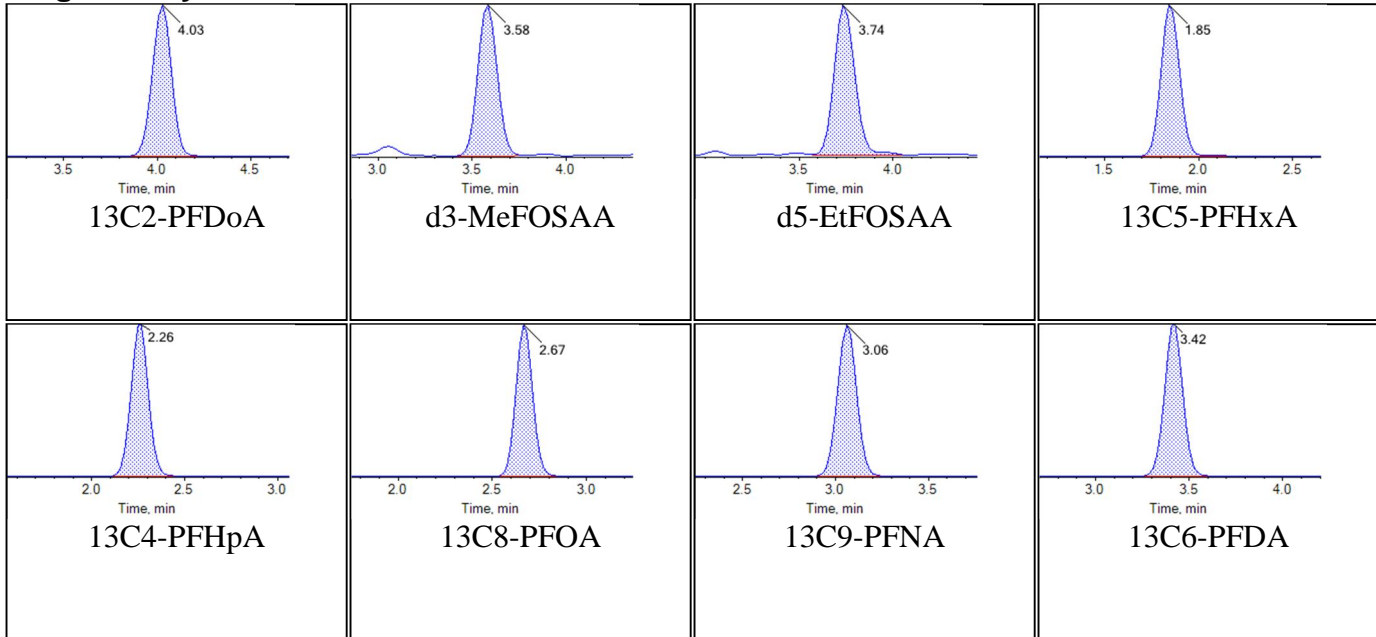
Internal Standards:

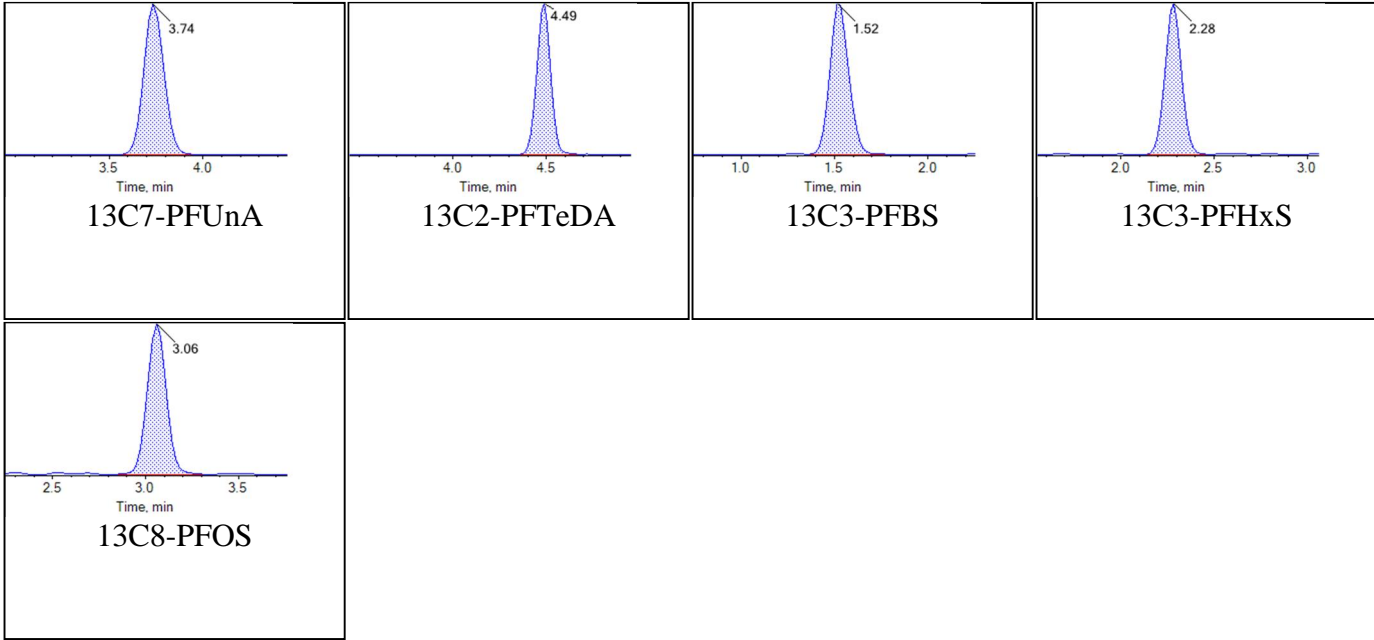


<b>Sample Name</b>	J8463MS-FS-D(3)	<b>Injection Vial</b>	5
<b>Sample ID</b>	VC-MS09-DW05-0918-MS	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:17:11	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

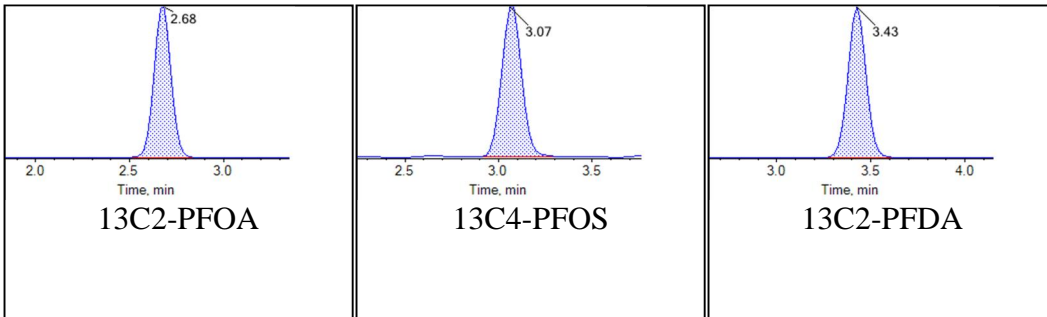
## Chromatograms

### Target Analytes:





### Internal Standards:

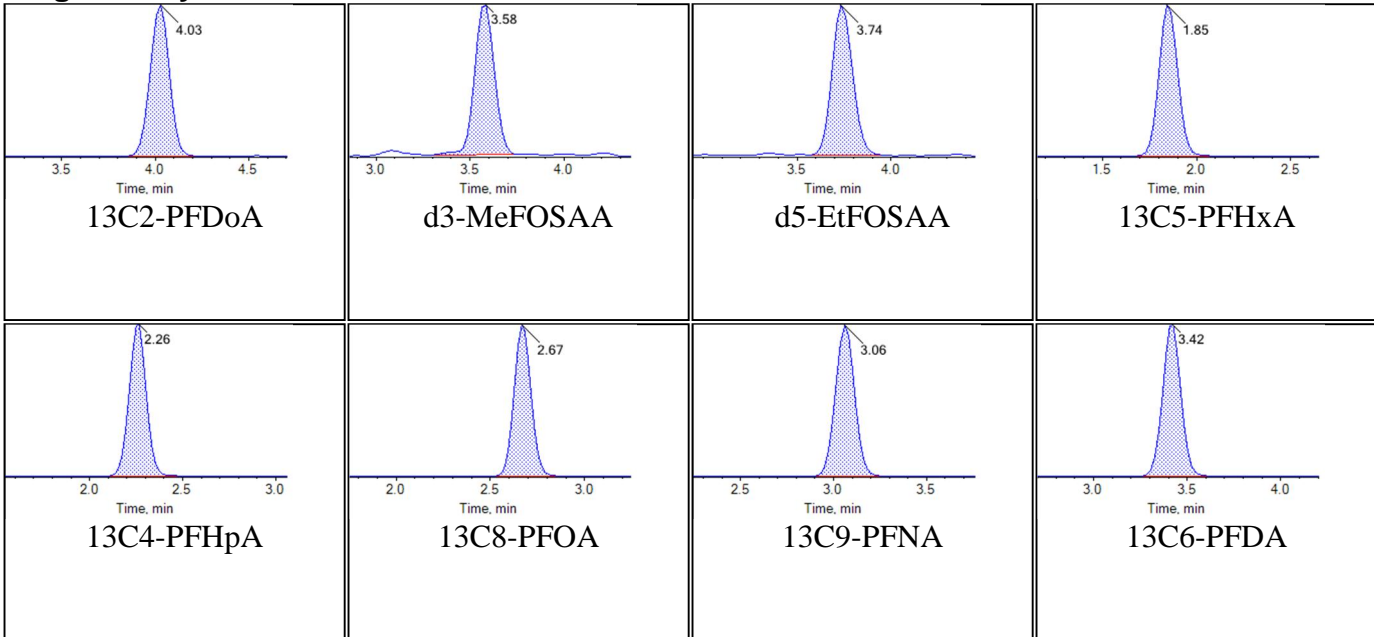




Sample Name	J8463MS-FS-D(5)	Injection Vial	6
Sample ID	VC-MS09-DW05-0918-MS	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T06:28:05	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

## Chromatograms

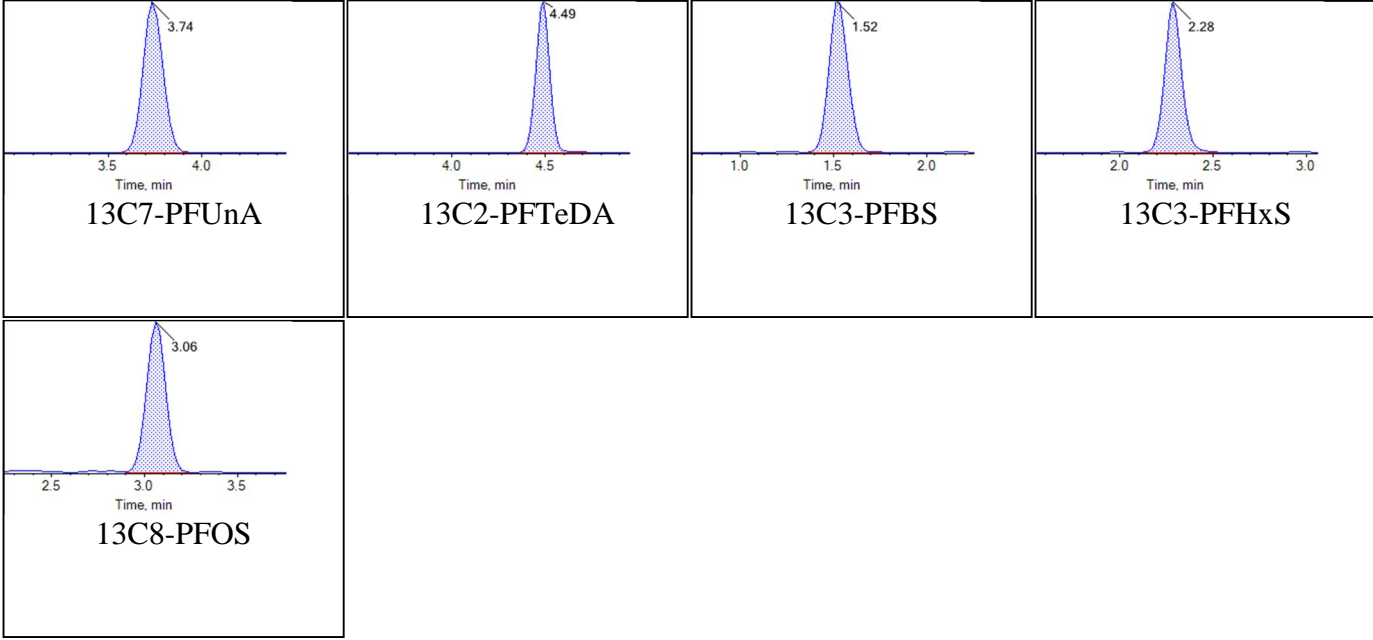
### Target Analytes:



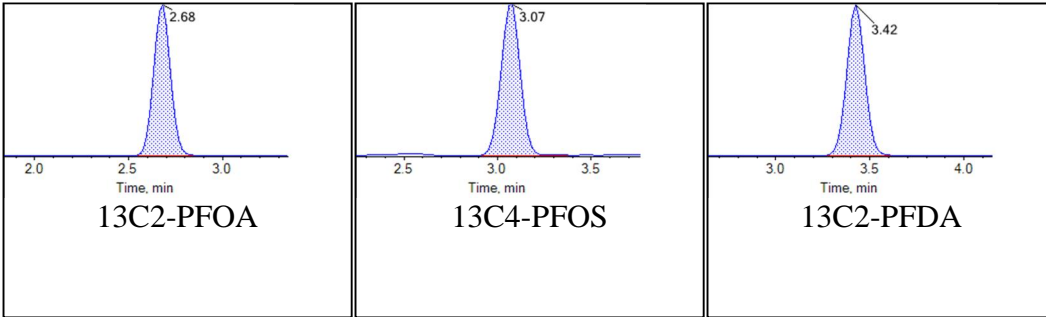


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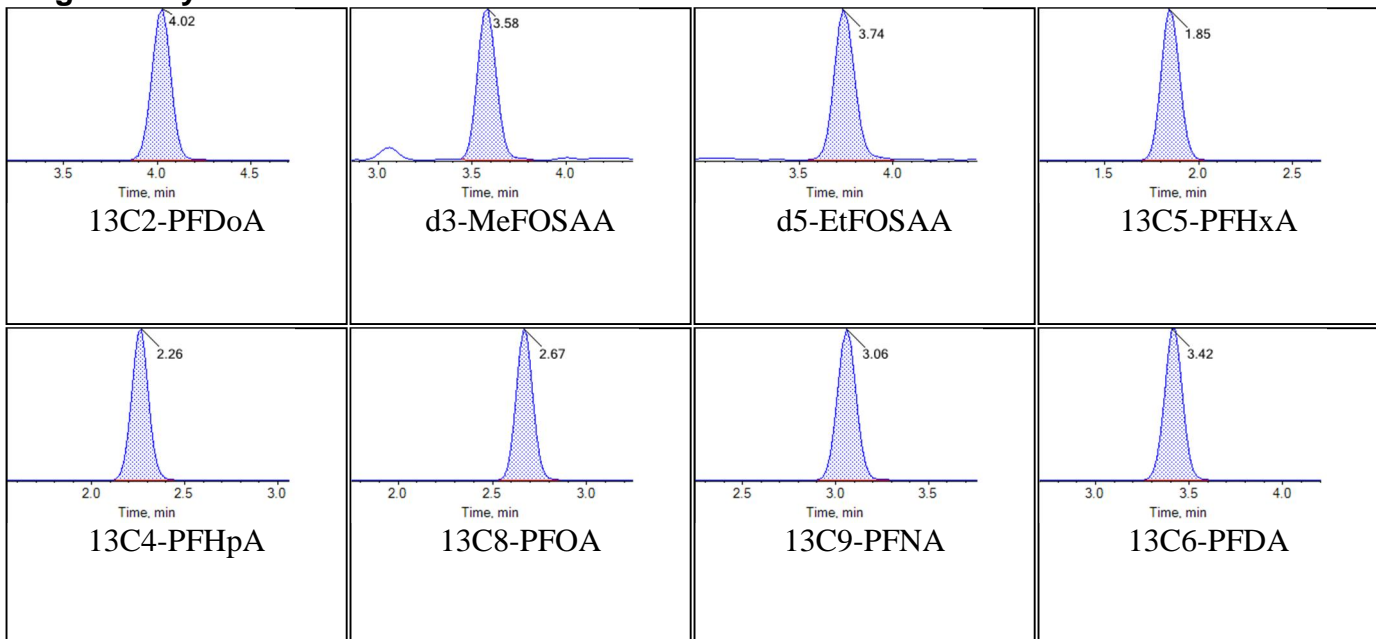
Internal Standards:



<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	7
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T06:38:59	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

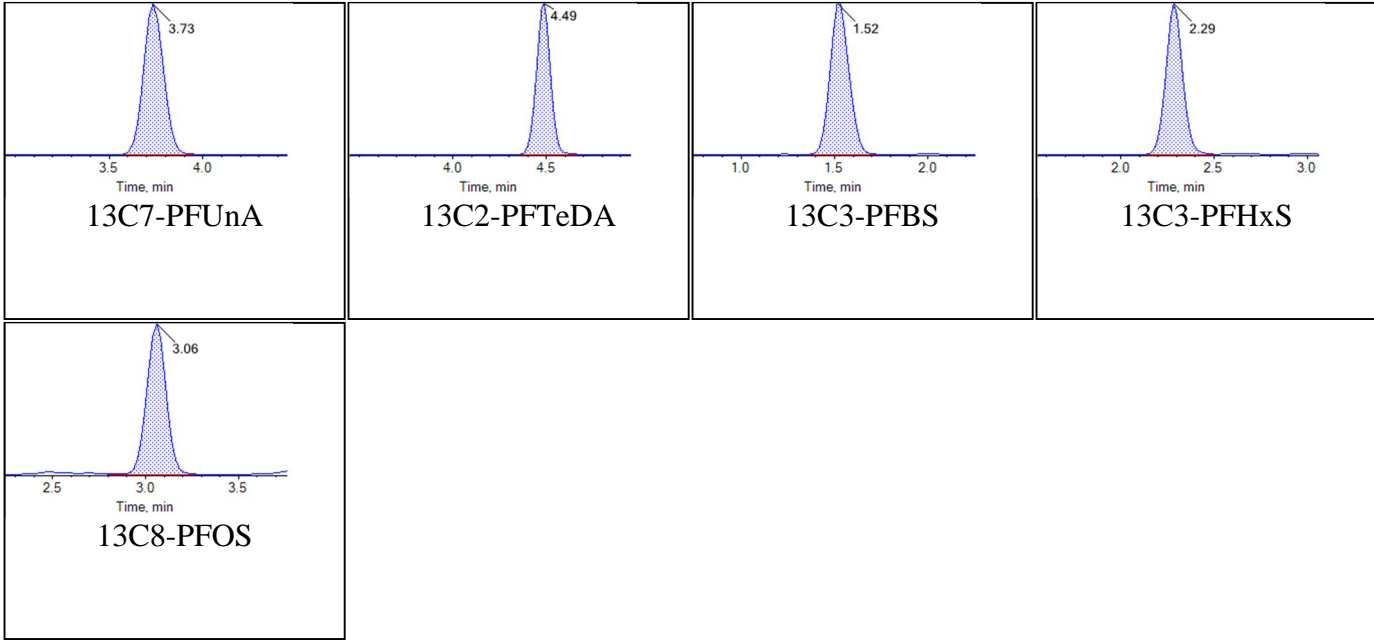
### Target Analytes:



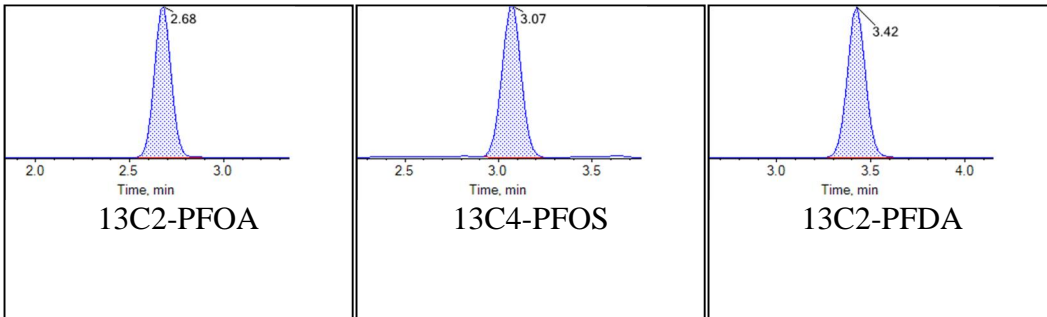


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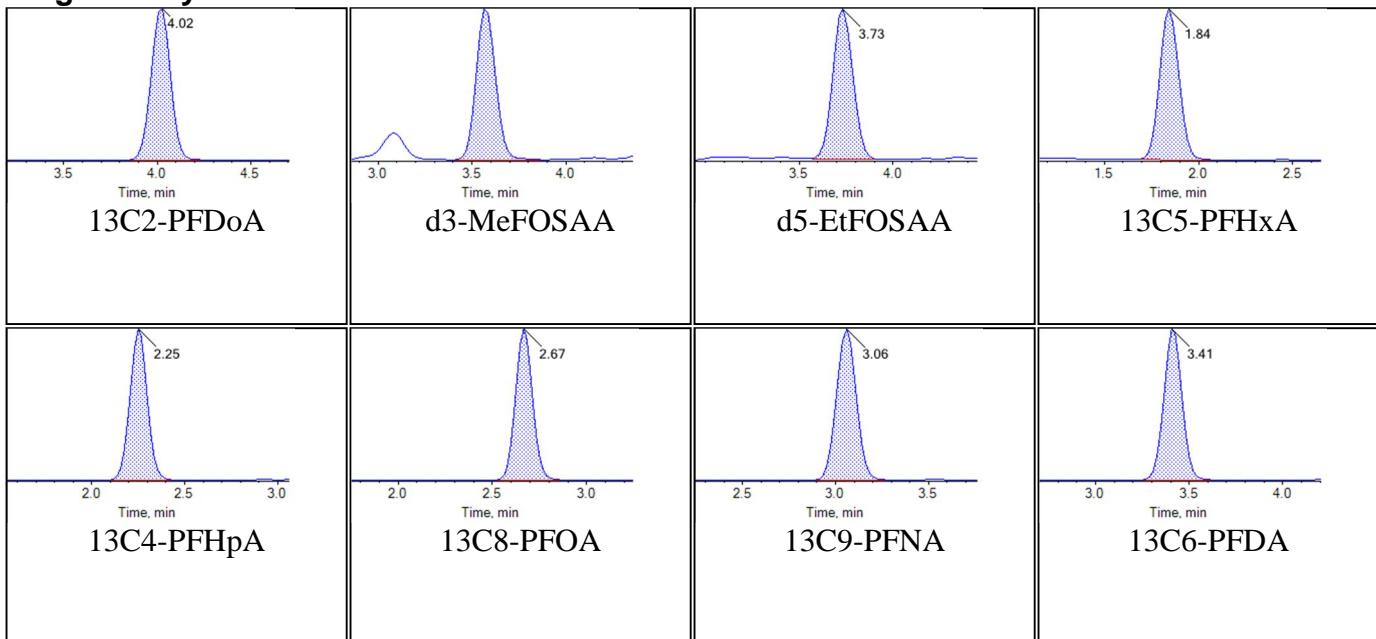
Internal Standards:

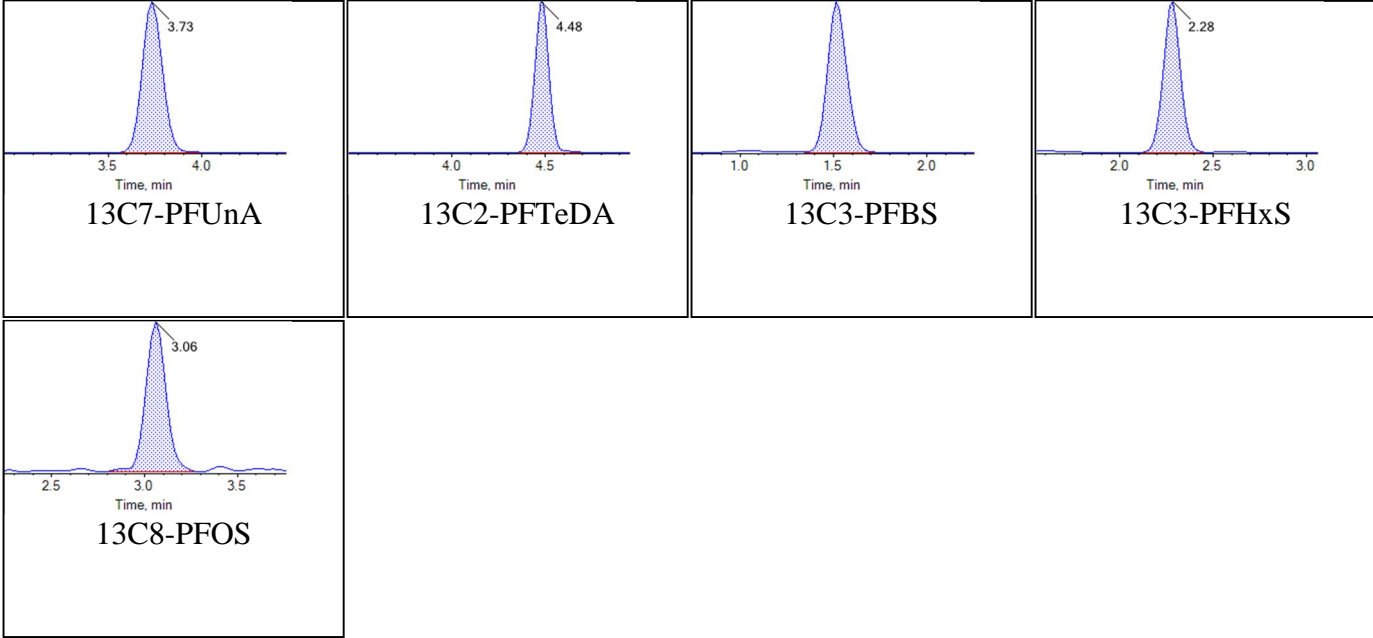


<b>Sample Name</b>	J8464MSD-FS(0)	<b>Injection Vial</b>	9
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:00:44	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

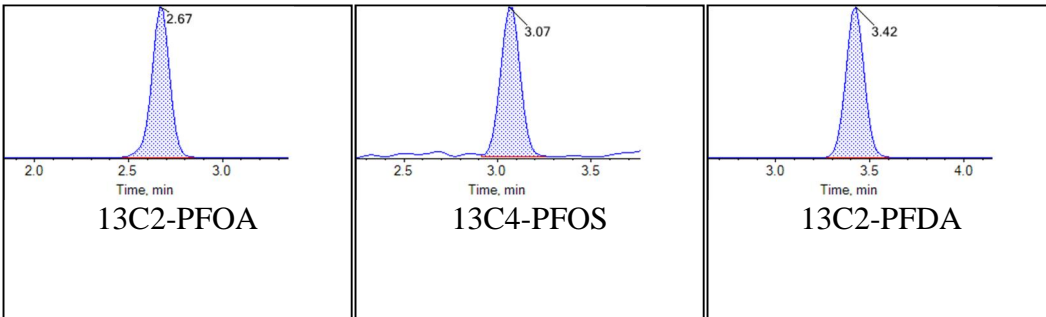
## Chromatograms

### Target Analytes:





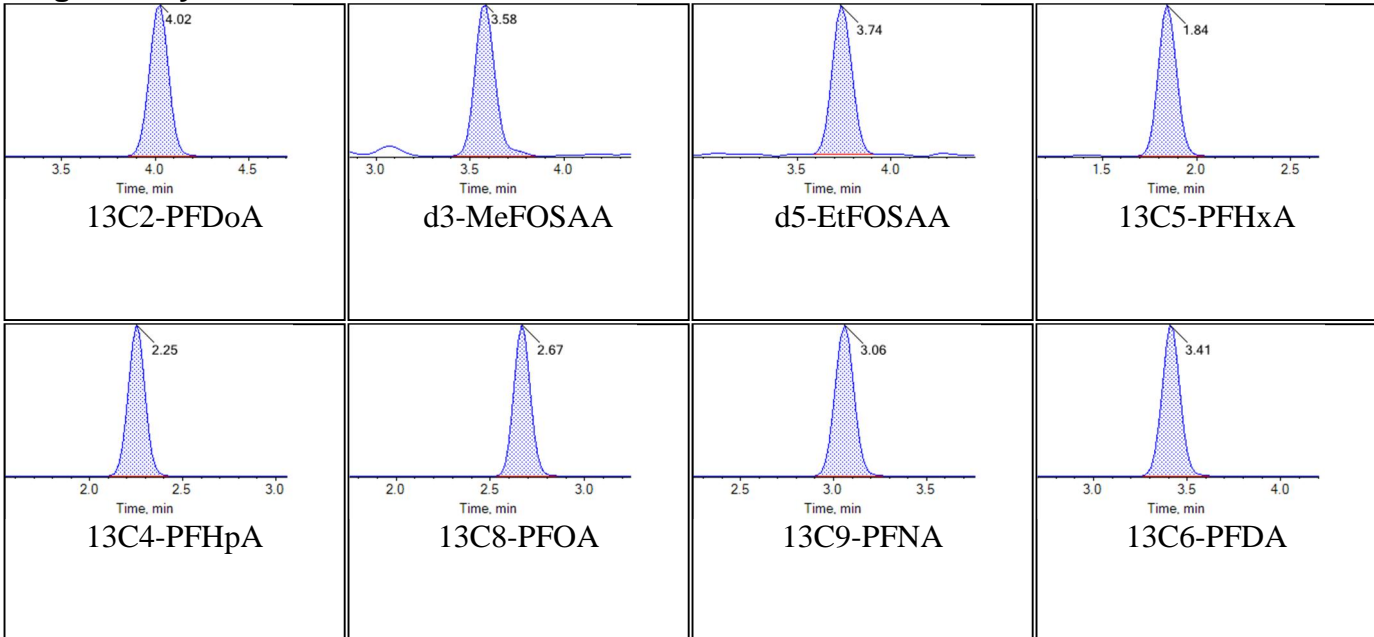
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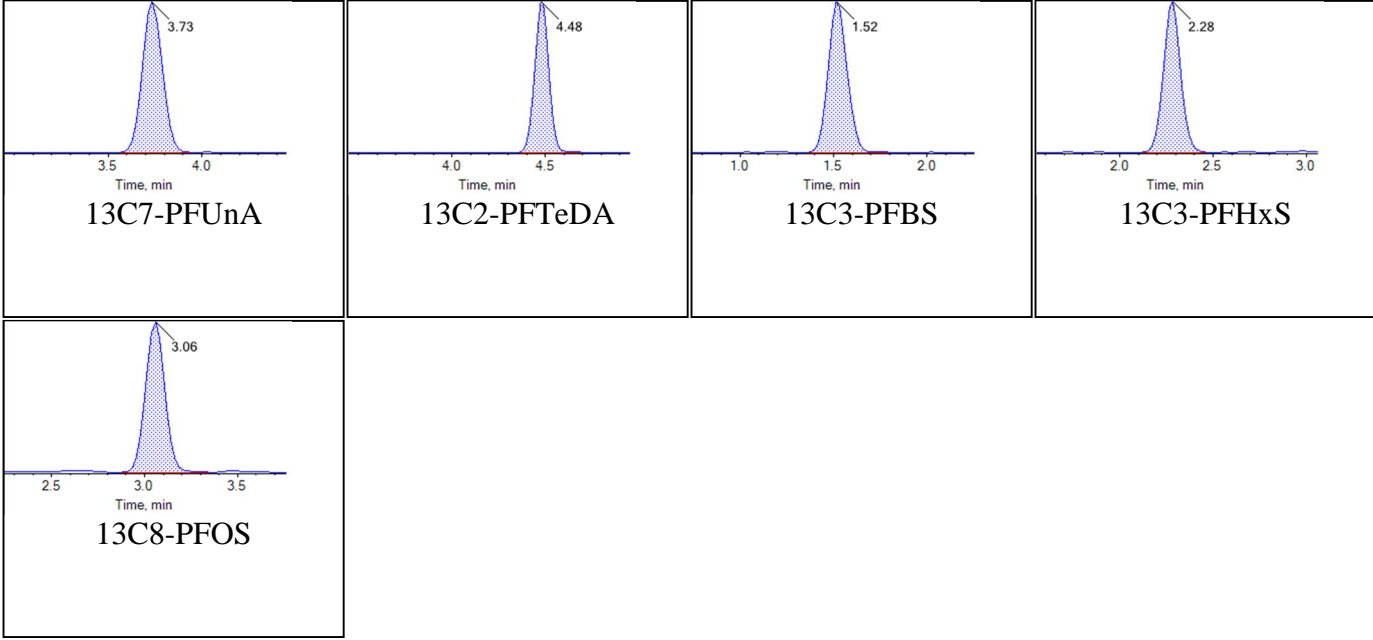


<b>Sample Name</b>	J8464MSD-FS-D(3)	<b>Injection Vial</b>	10
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:11:37	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

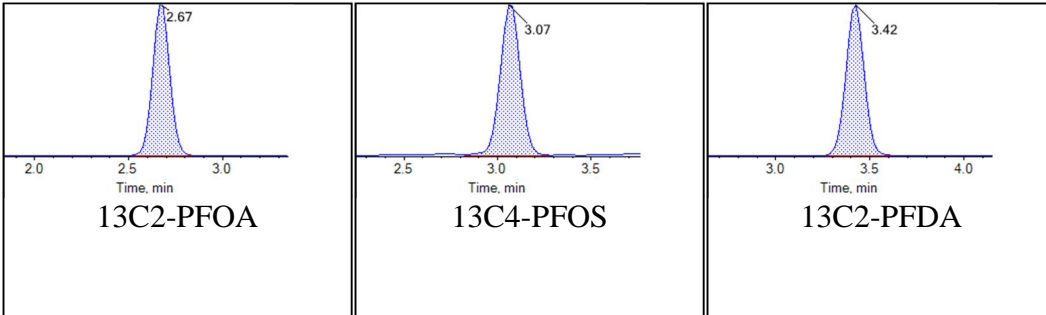
## Chromatograms

### Target Analytes:





### Internal Standards:

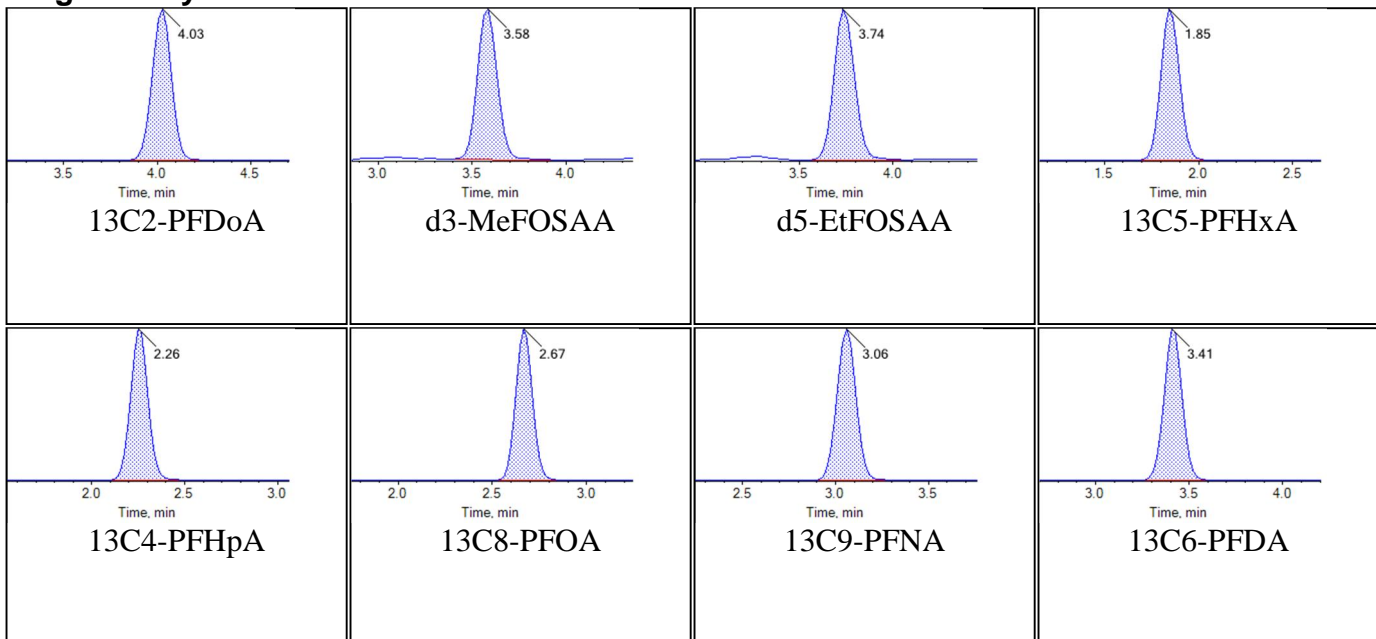


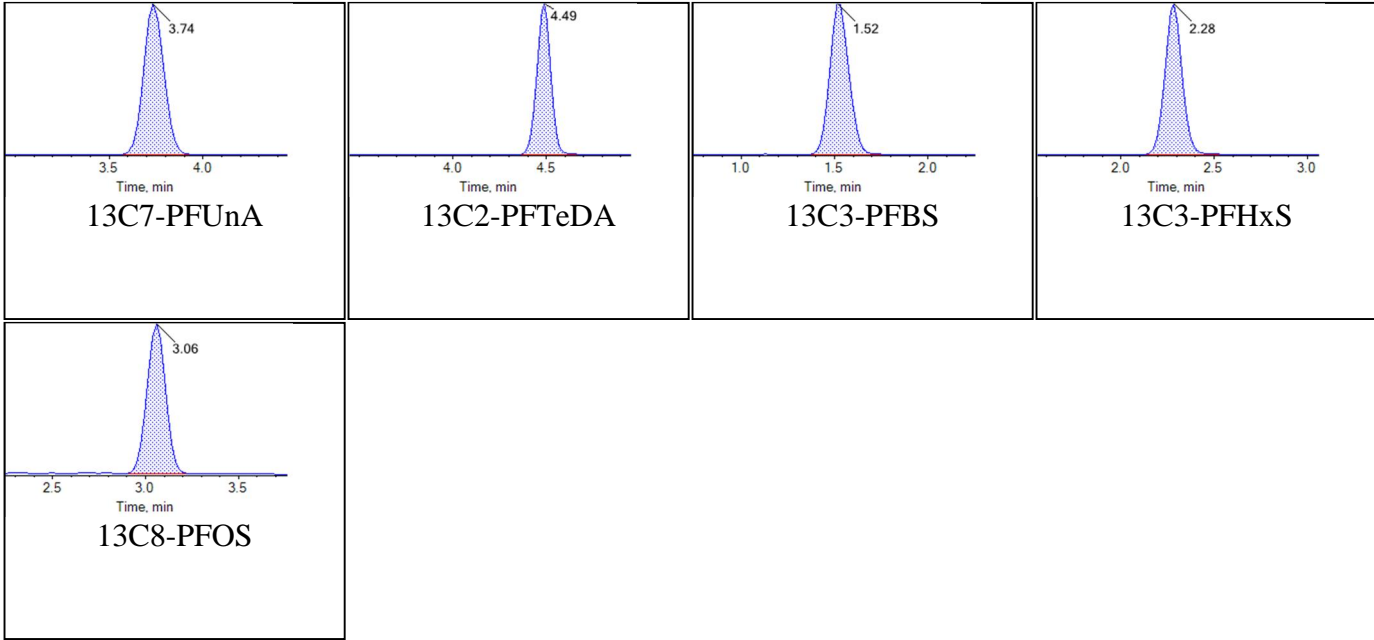


<b>Sample Name</b>	J8464MSD-FS-D(5)	<b>Injection Vial</b>	11
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:22:30	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

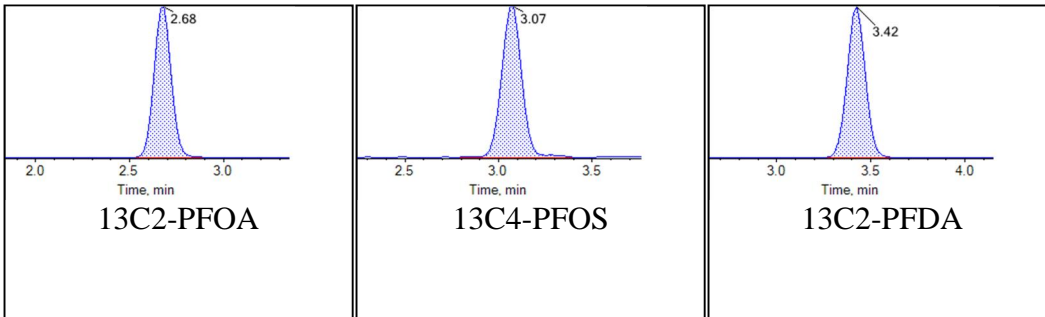
## Chromatograms

### Target Analytes:





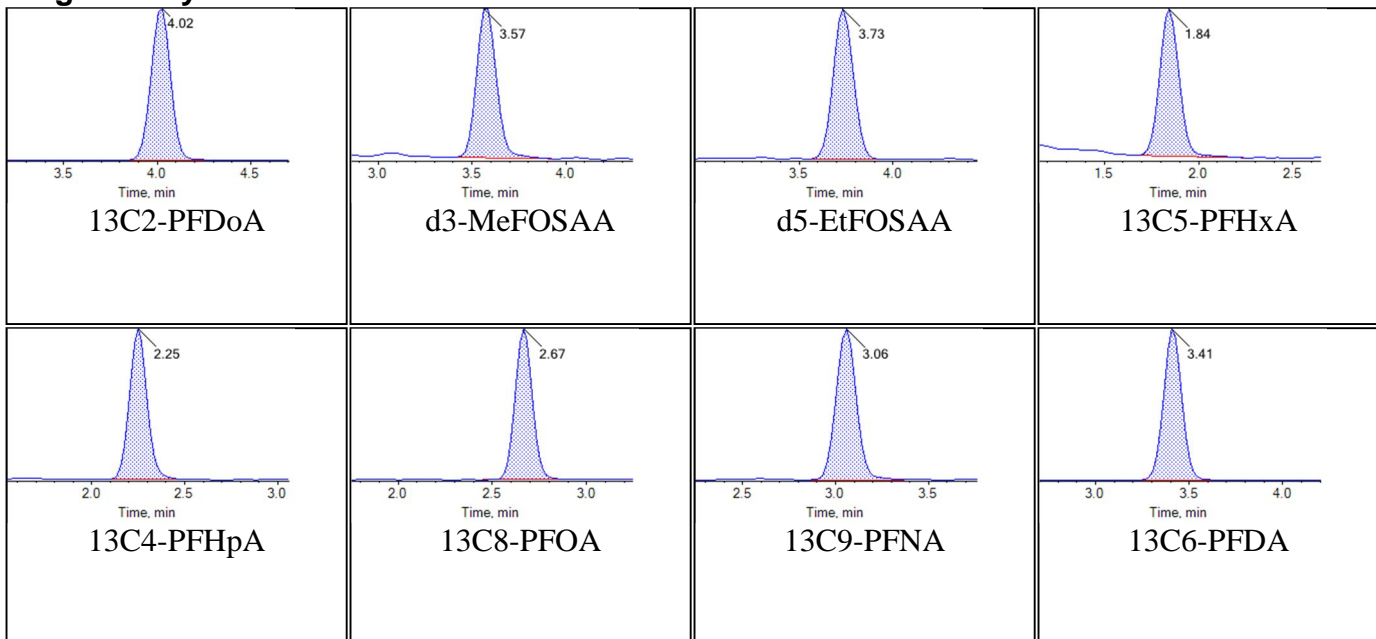
### Internal Standards:

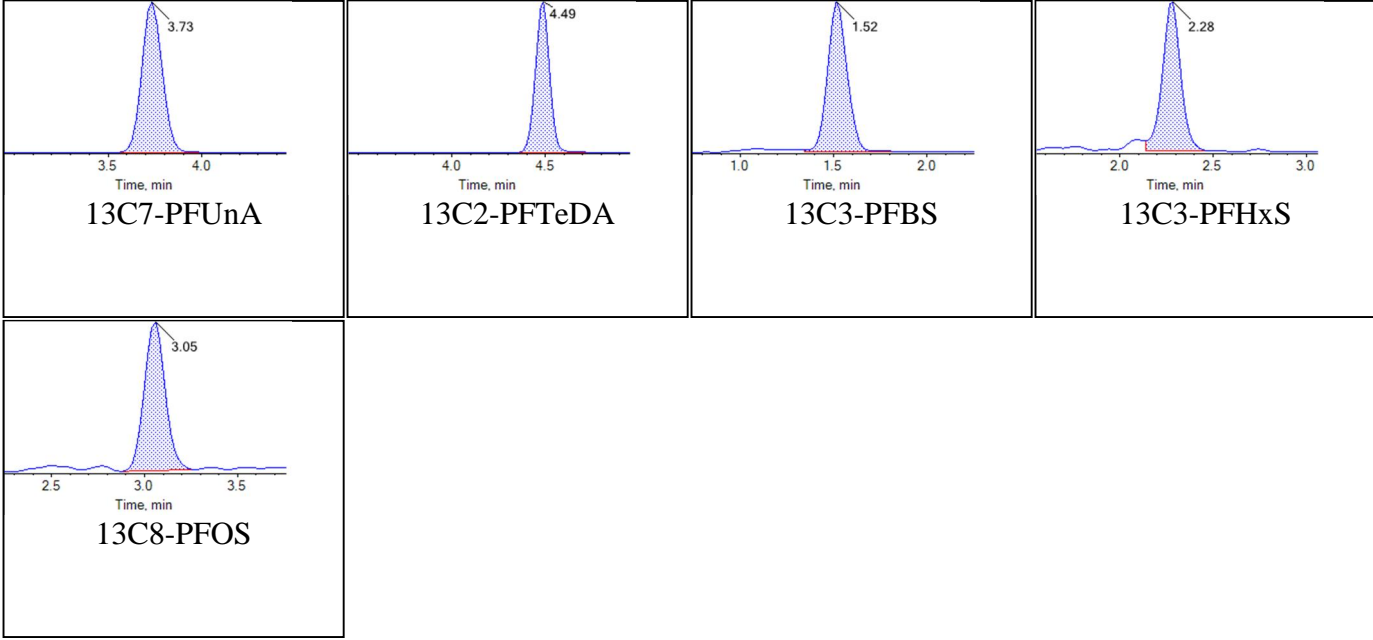


<b>Sample Name</b>	J8477-FS(0)	<b>Injection Vial</b>	12
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:33:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

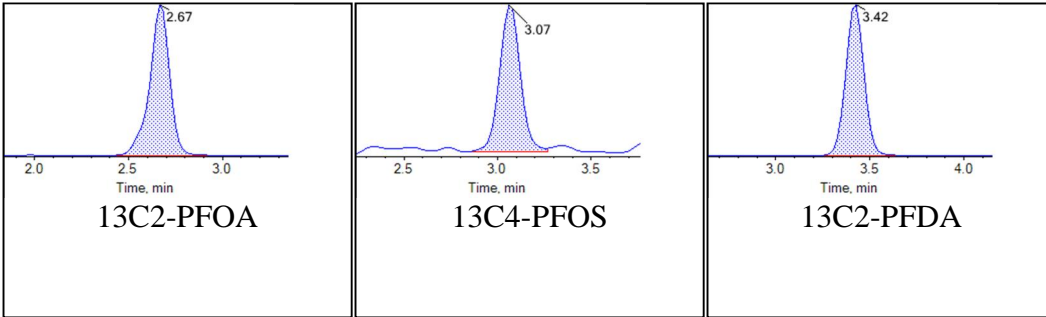
## Chromatograms

### Target Analytes:





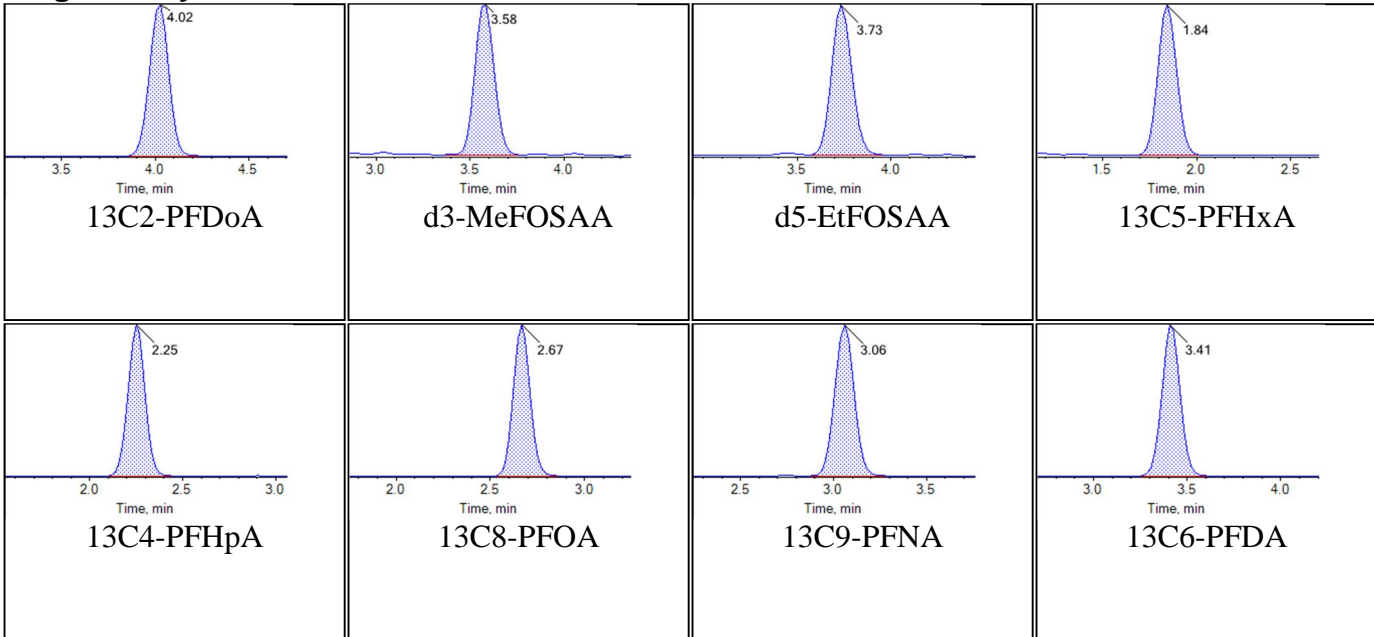
### Internal Standards:

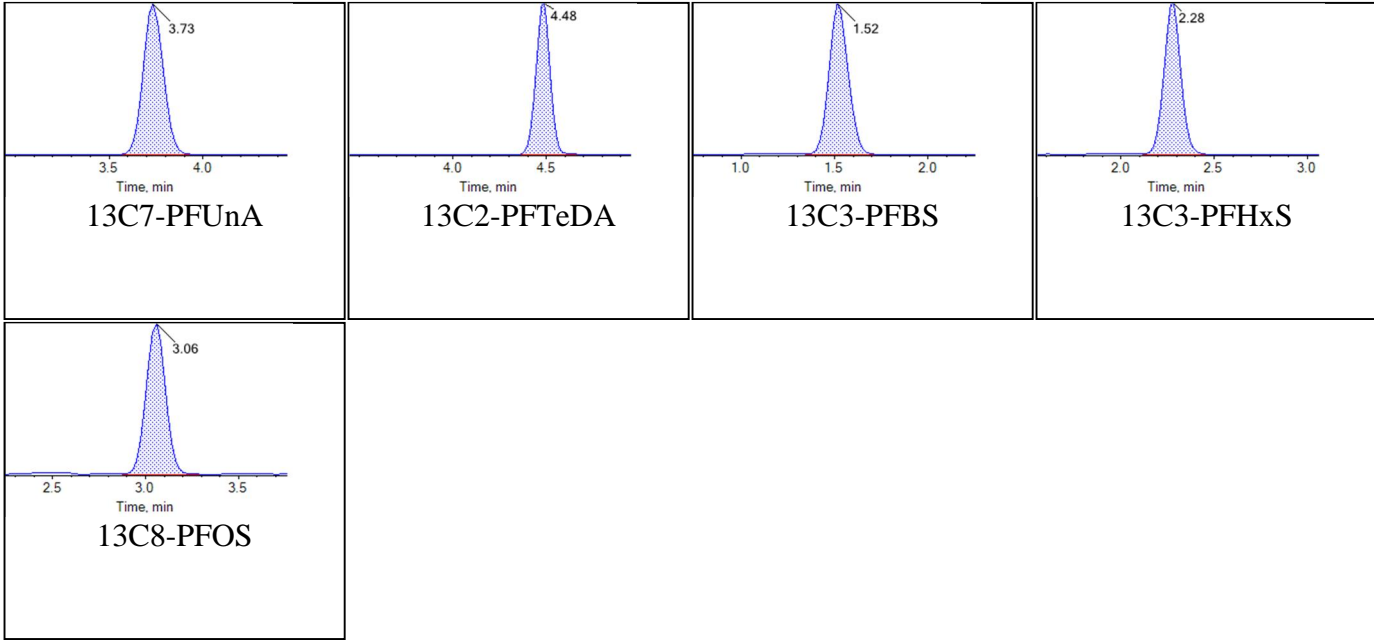


<b>Sample Name</b>	J8477-FS-D(3)	<b>Injection Vial</b>	13
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:44:17	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

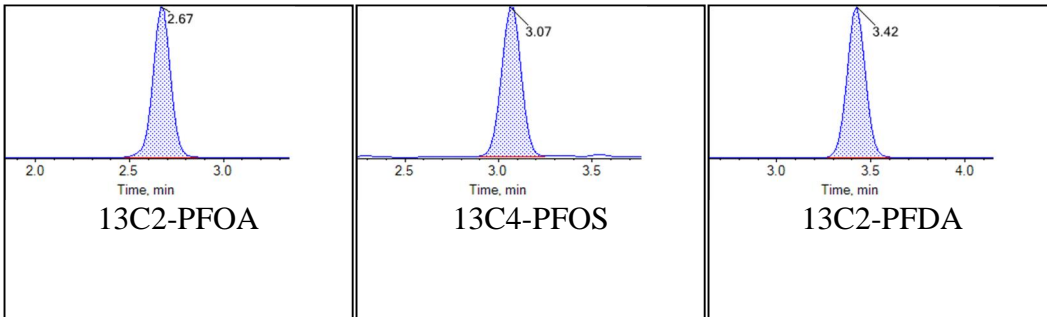
## Chromatograms

### Target Analytes:





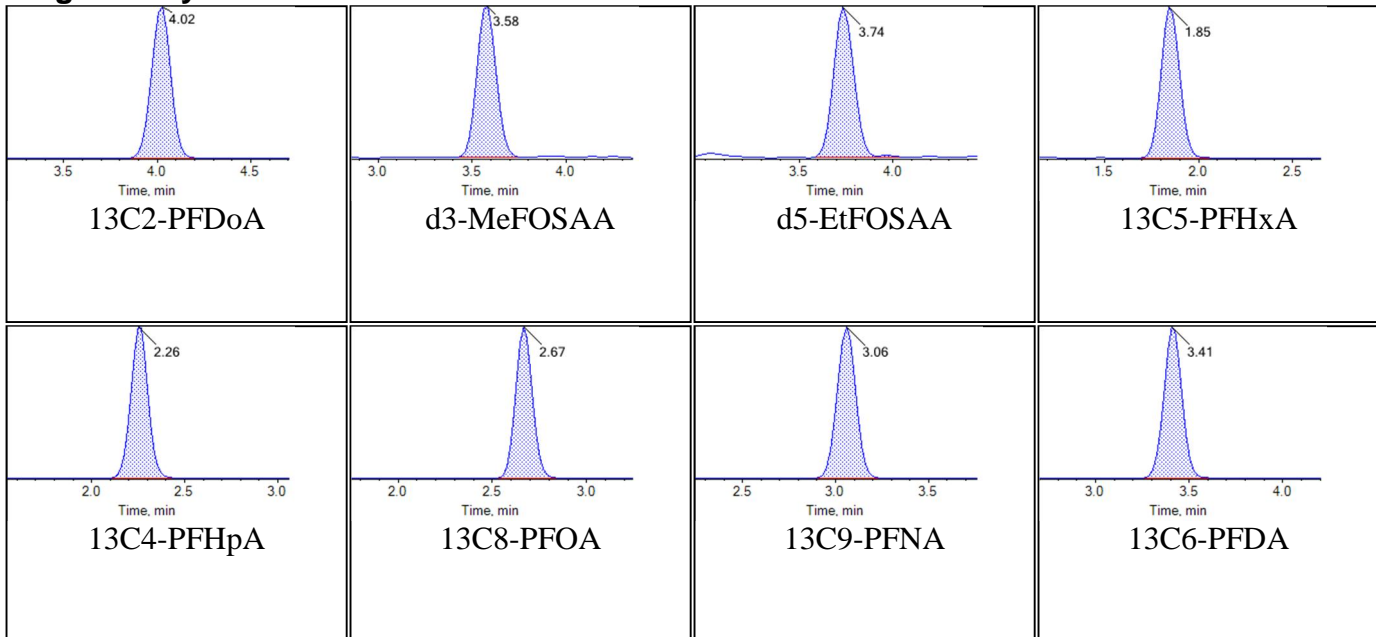
### Internal Standards:



<b>Sample Name</b>	J8477-FS-D(5)	<b>Injection Vial</b>	14
<b>Sample ID</b>	VC-PM367-DW01-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T07:55:10	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

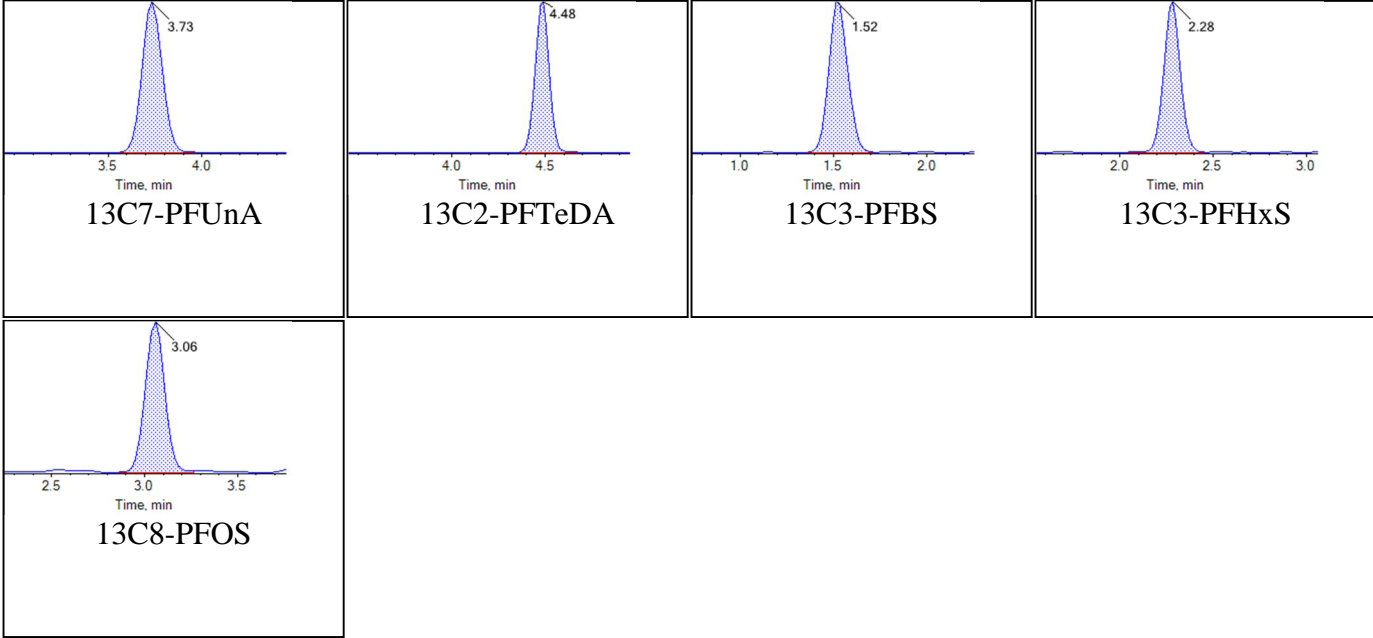
### Target Analytes:



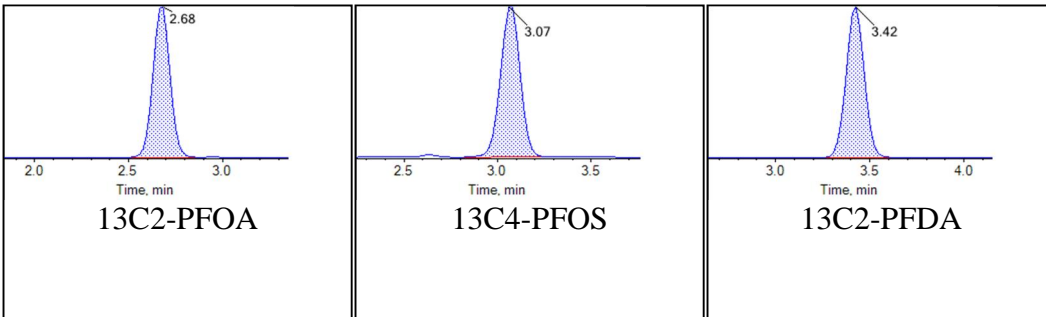


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Internal Standards:

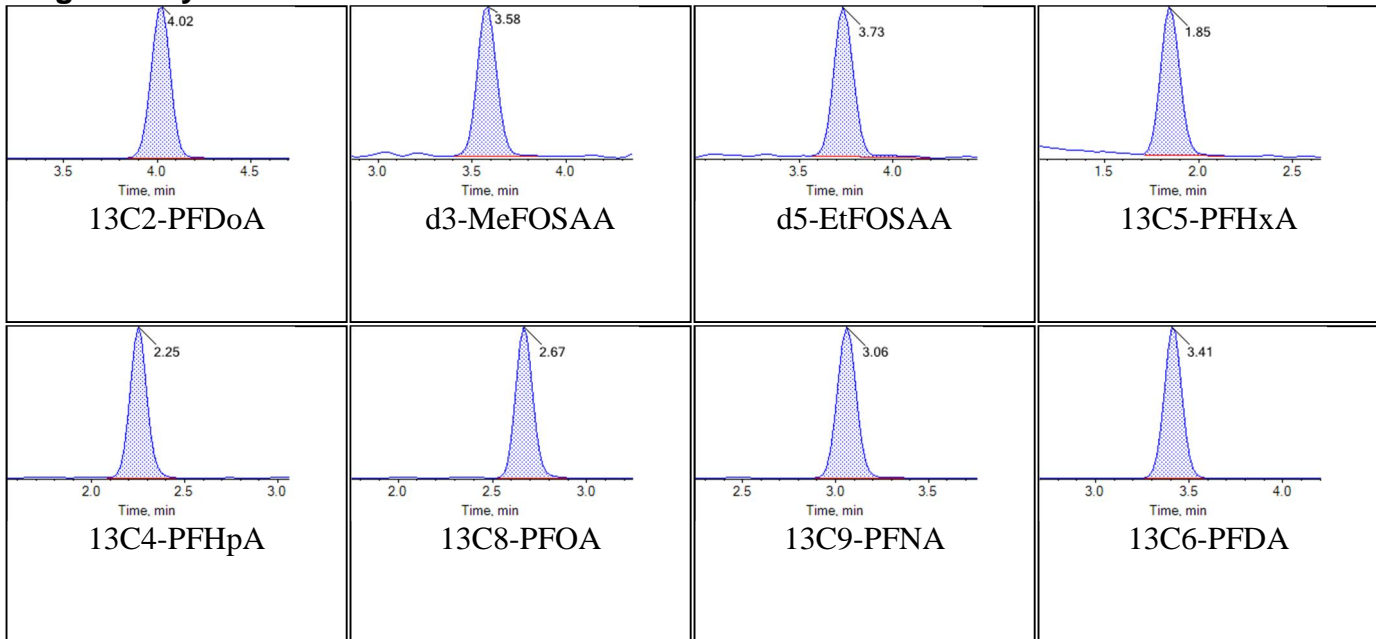


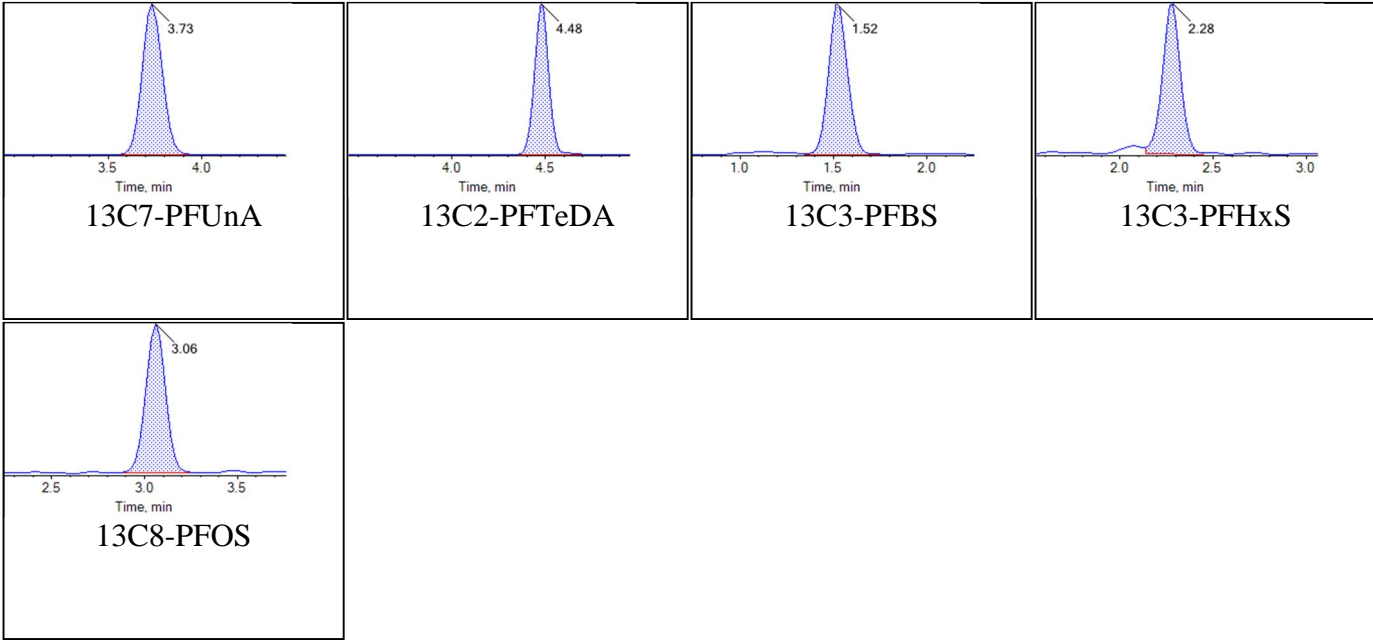


Sample Name	J8478-FS(0)	Injection Vial	15
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:06:03	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

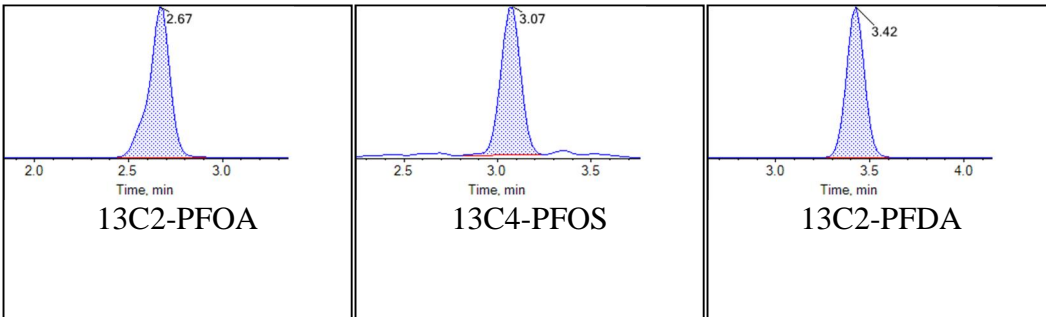
## Chromatograms

### Target Analytes:





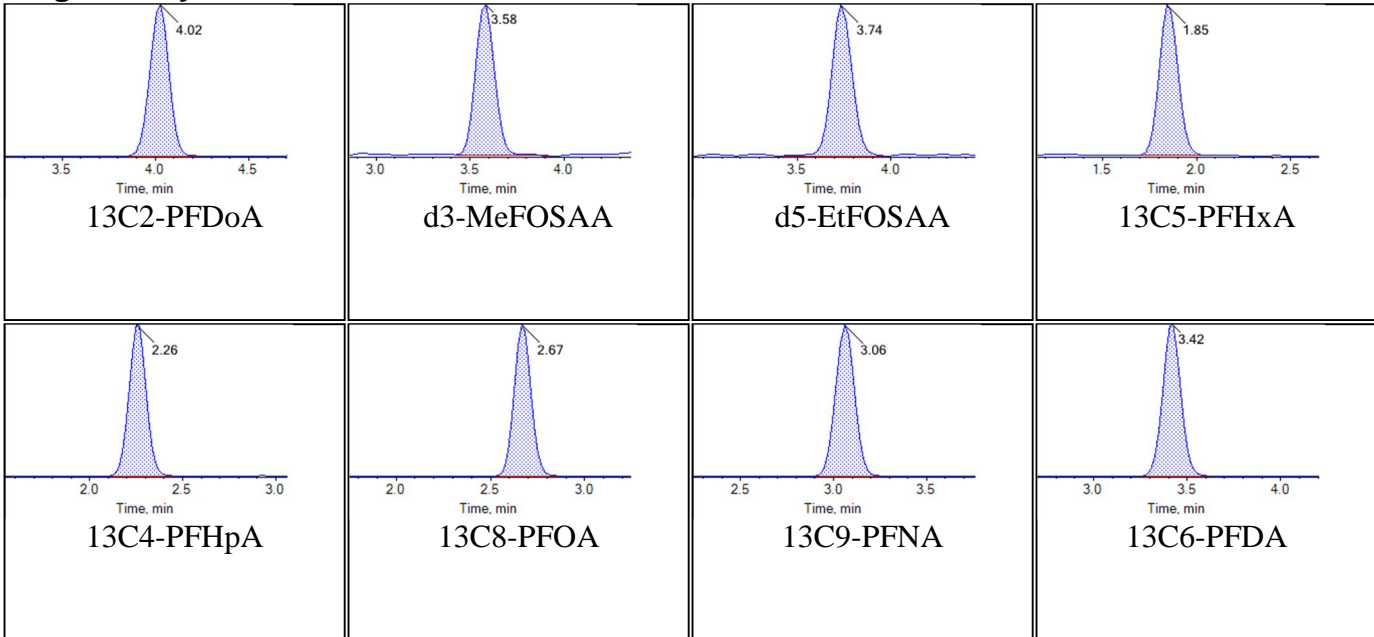
### Internal Standards:

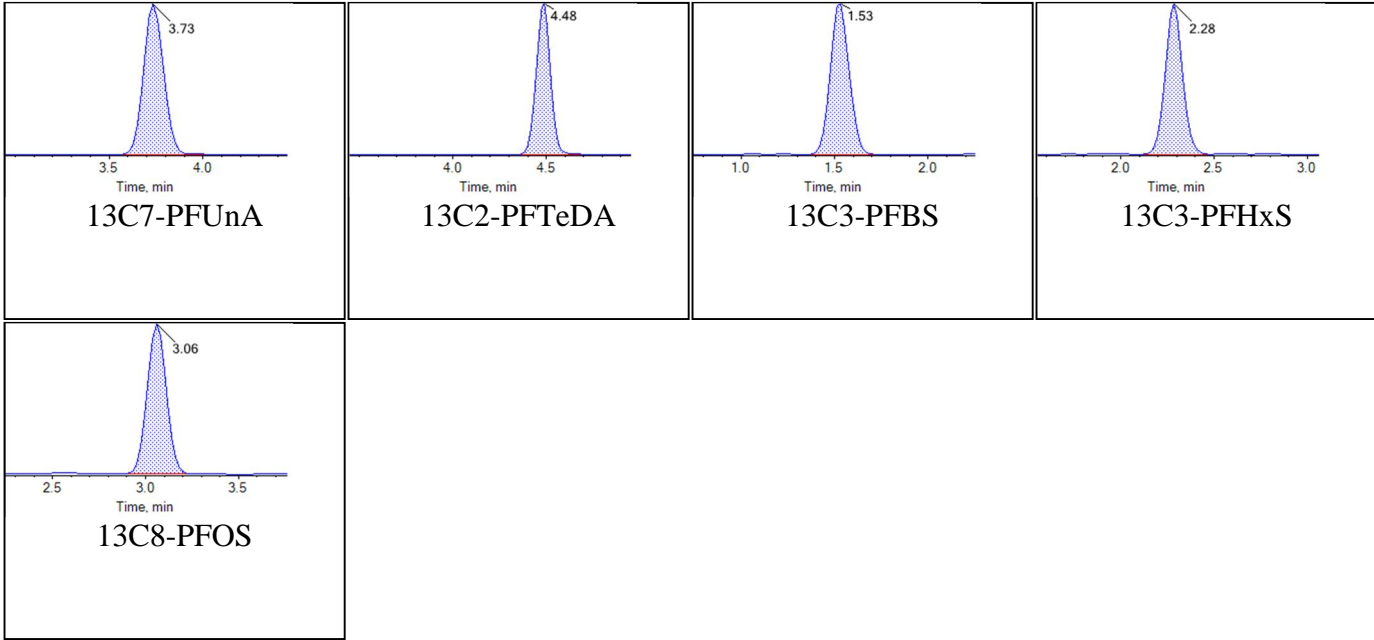


Sample Name	J8478-FS-D(3)	Injection Vial	16
Sample ID	VC-PM367-DW02-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T08:16:56	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

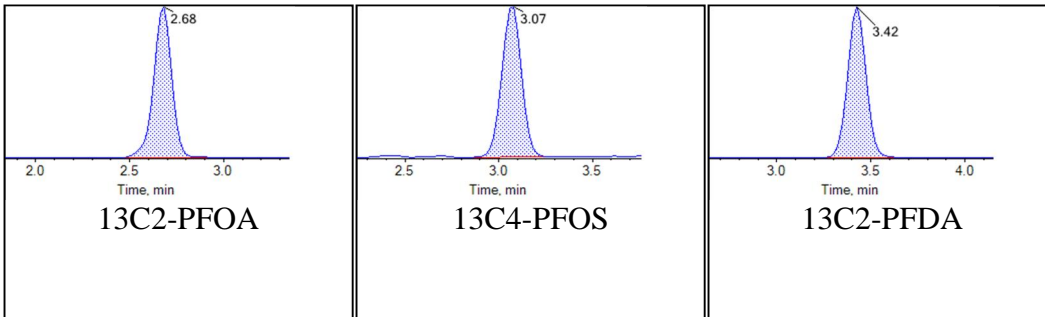
## Chromatograms

### Target Analytes:





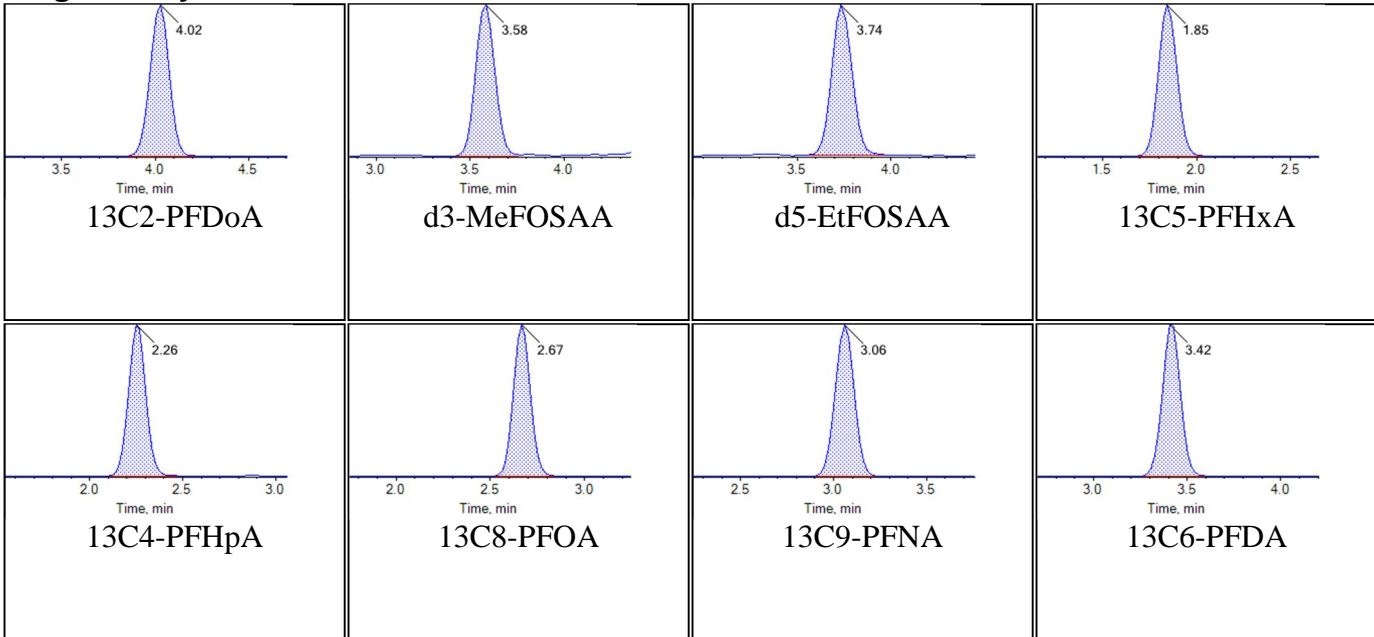
### Internal Standards:

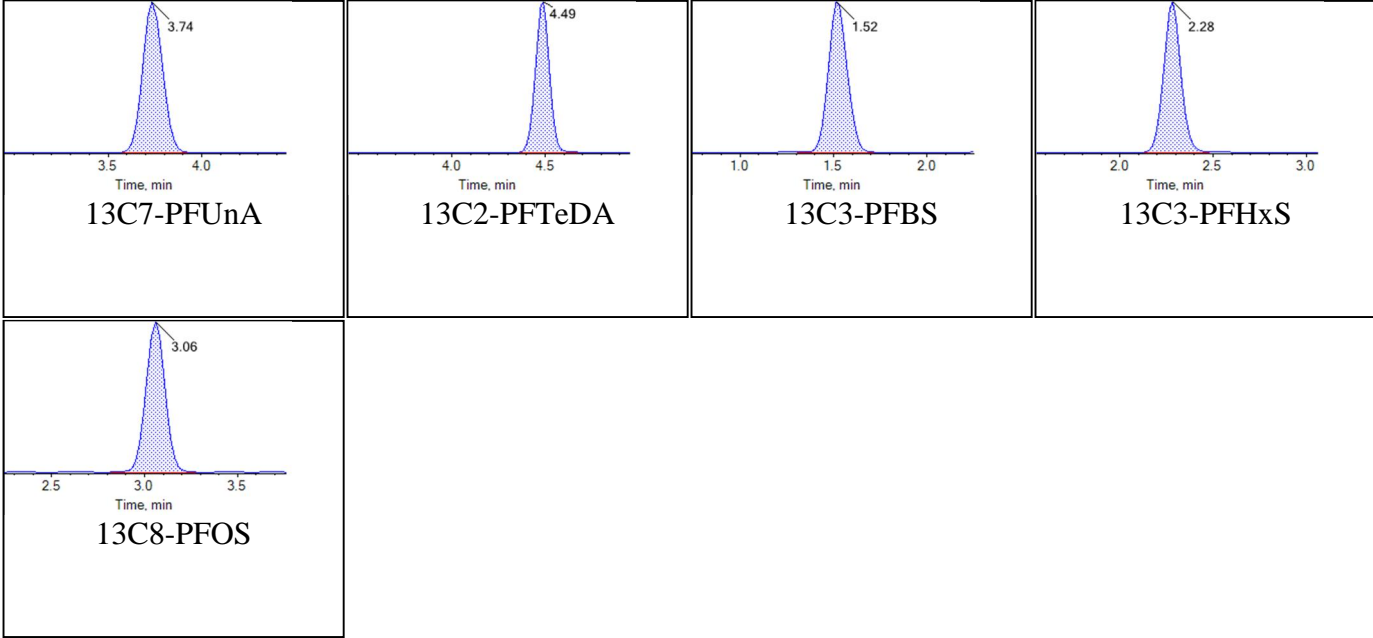


<b>Sample Name</b>	J8478-FS-D(5)	<b>Injection Vial</b>	17
<b>Sample ID</b>	VC-PM367-DW02-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:27:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

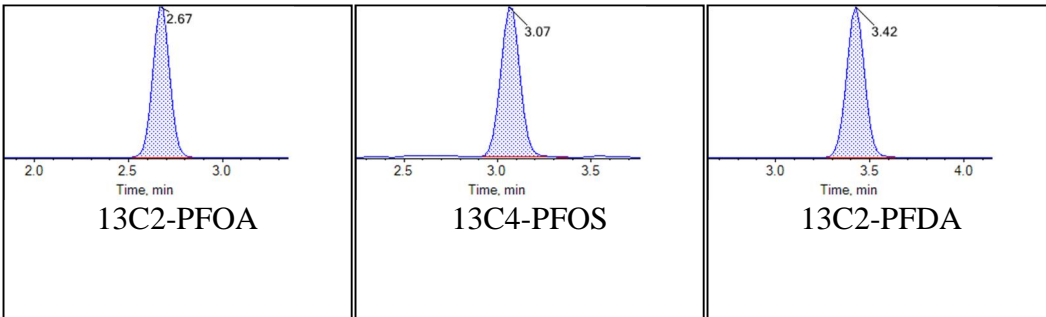
## Chromatograms

### Target Analytes:





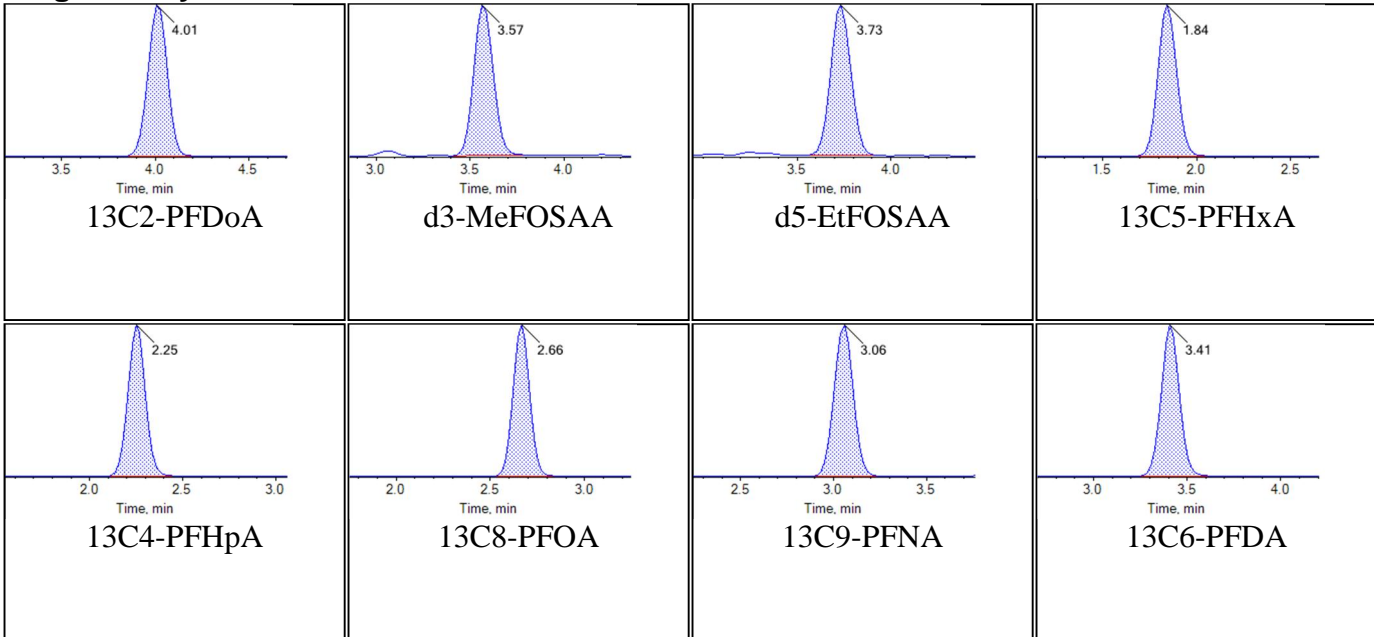
### Internal Standards:

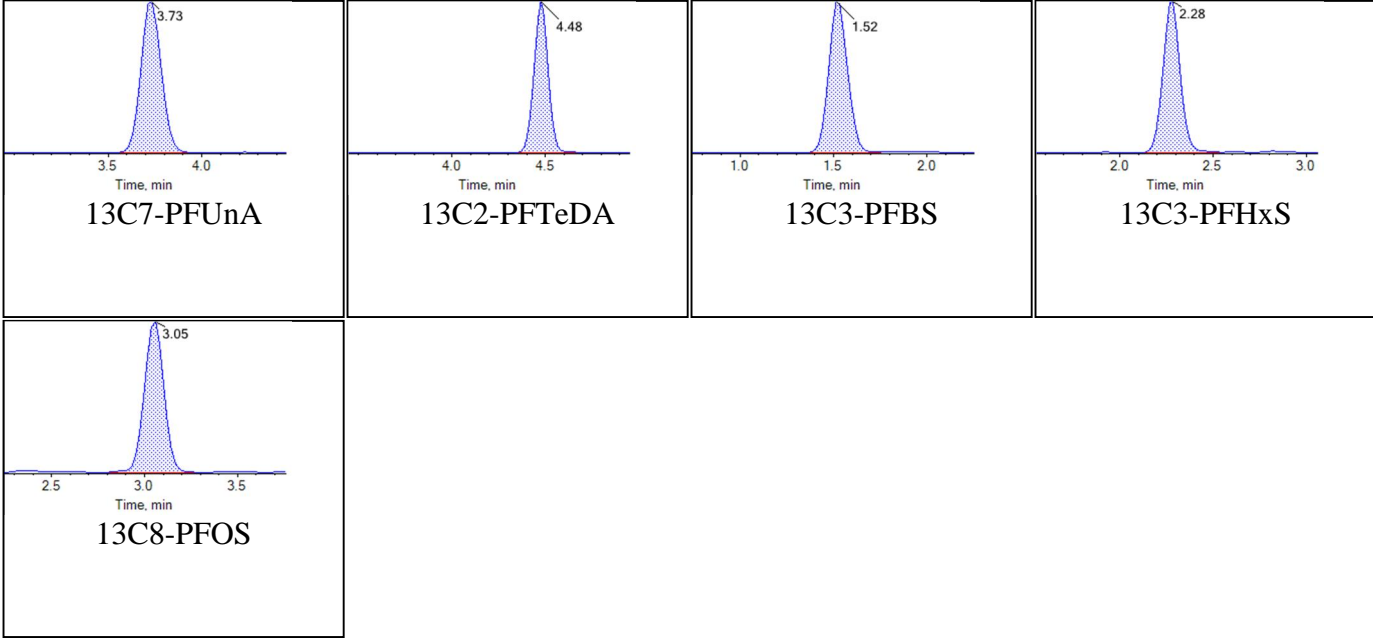


<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	18
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T08:38:41	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

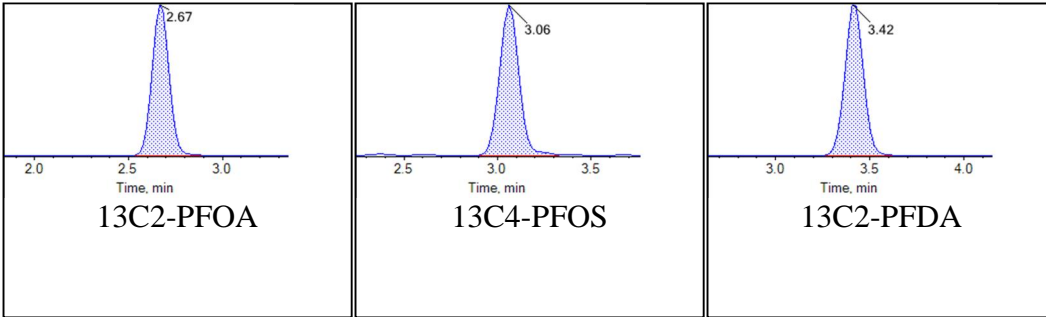
## Chromatograms

### Target Analytes:





### Internal Standards:

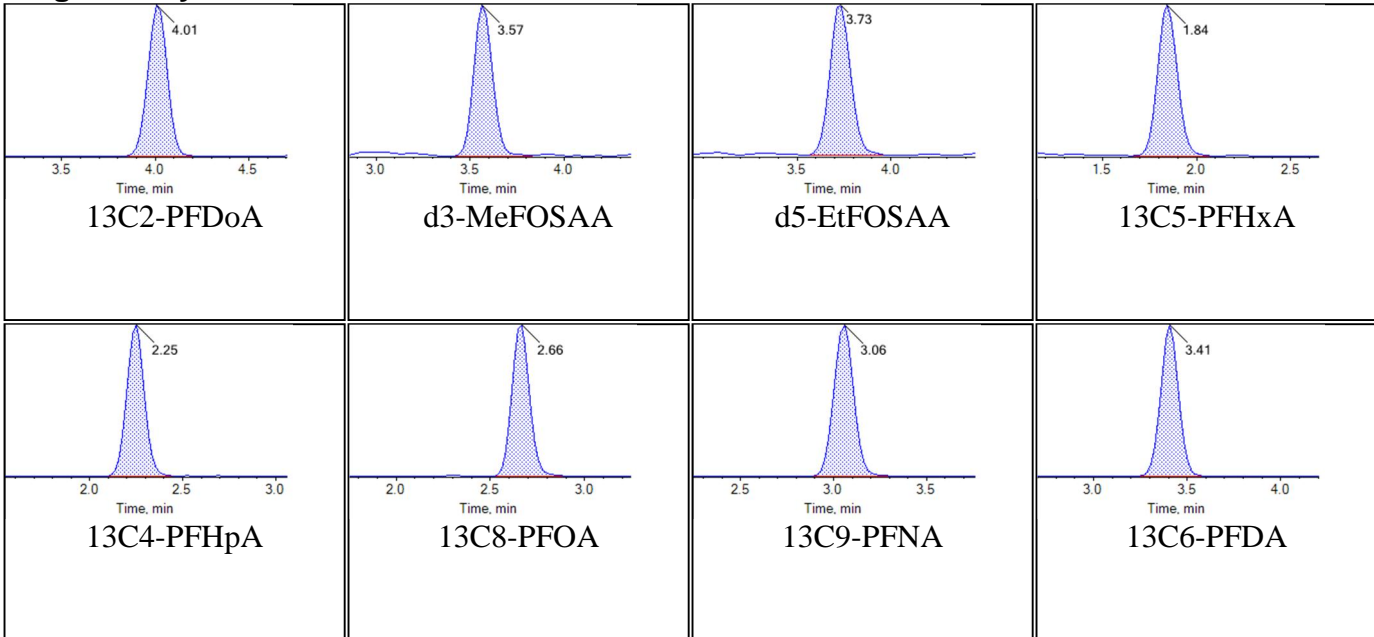


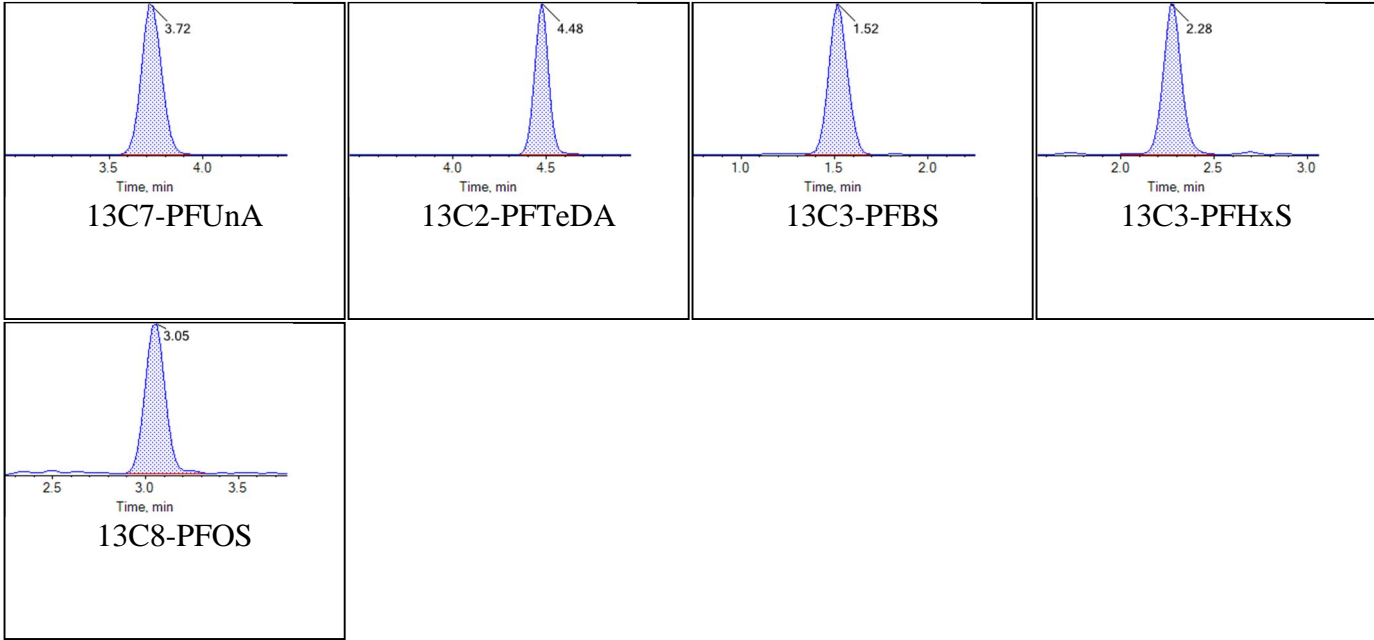


<b>Sample Name</b>	J8479-FS(0)	<b>Injection Vial</b>	20
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:00:25	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

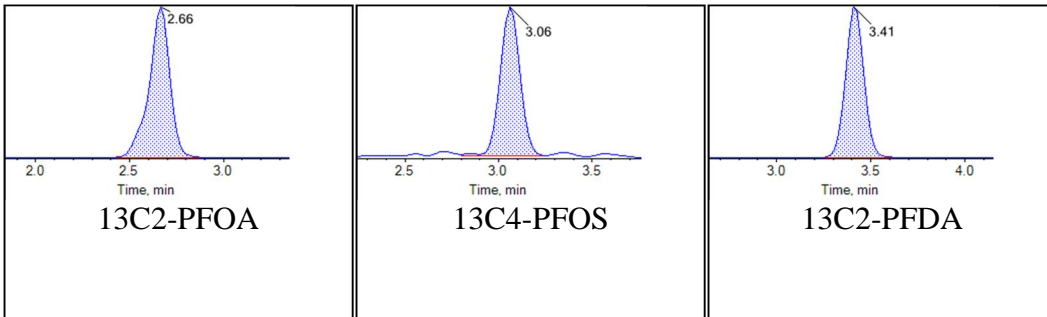
## Chromatograms

### Target Analytes:





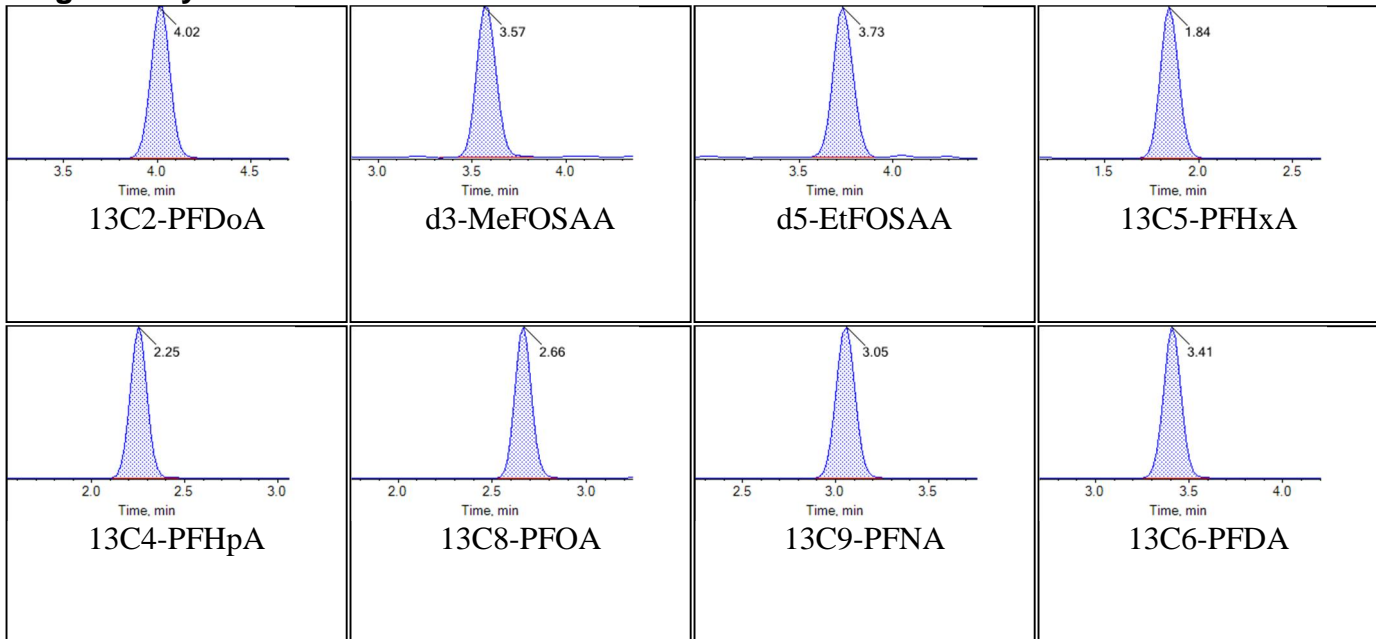
### Internal Standards:

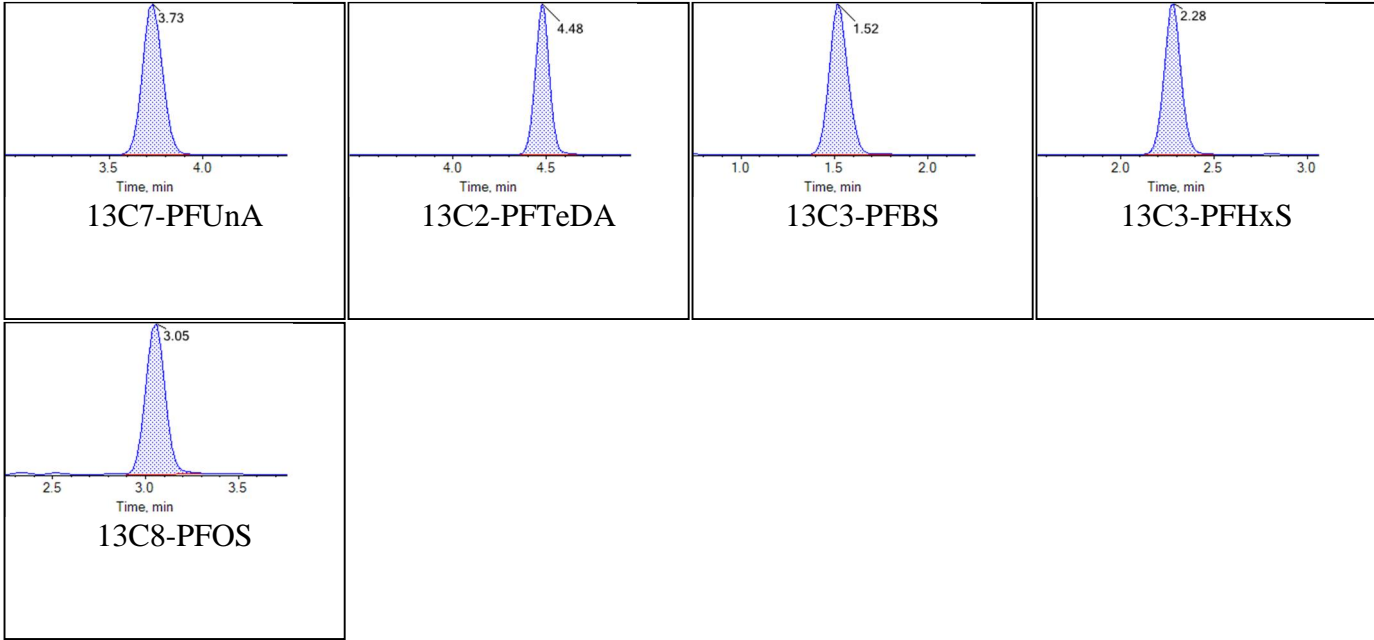


Sample Name	J8479-FS-D(3)	Injection Vial	21
Sample ID	VC-PM367-DW03-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:11:19	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

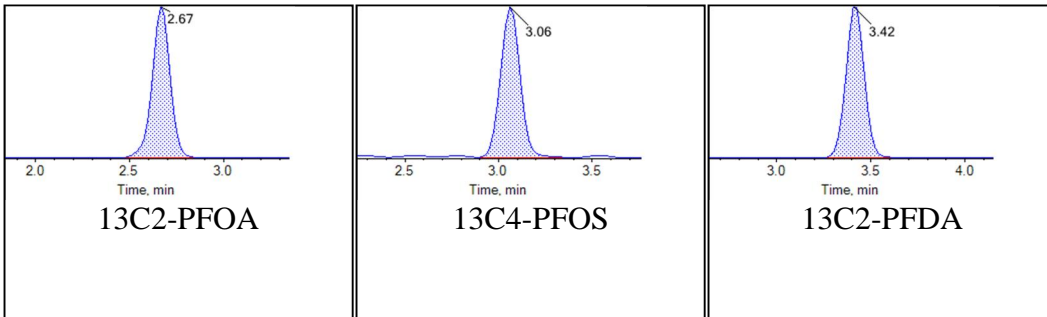
## Chromatograms

### Target Analytes:





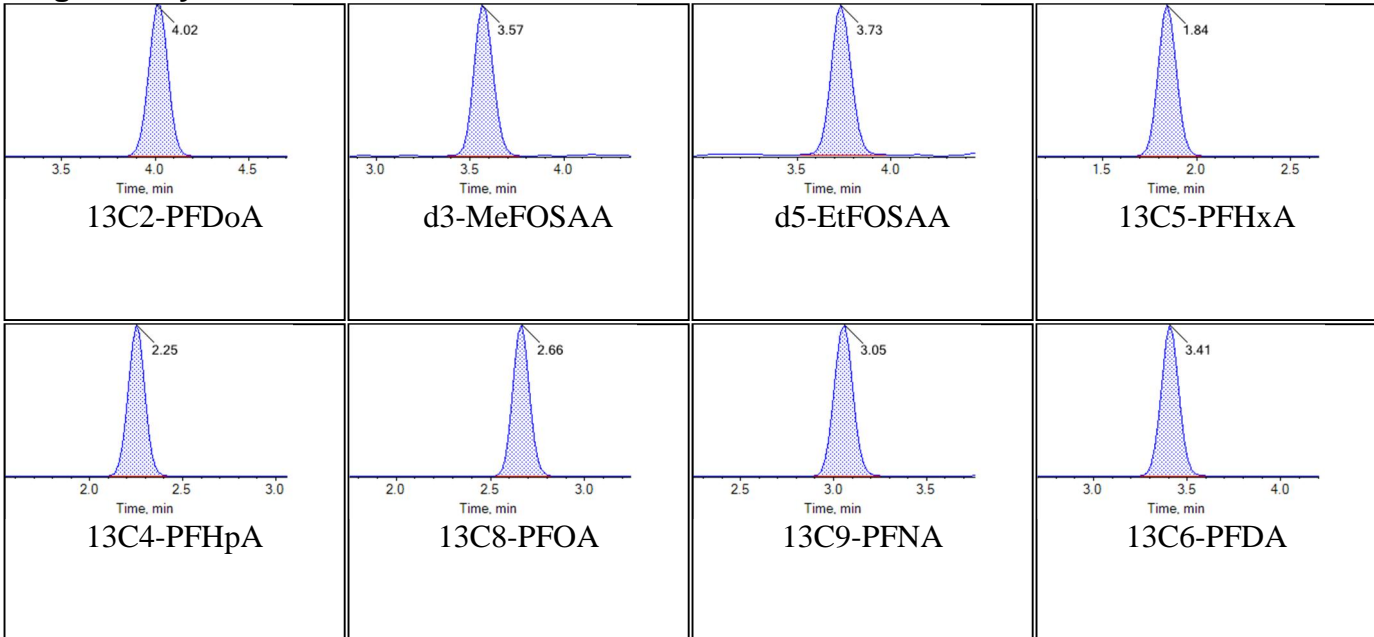
### Internal Standards:

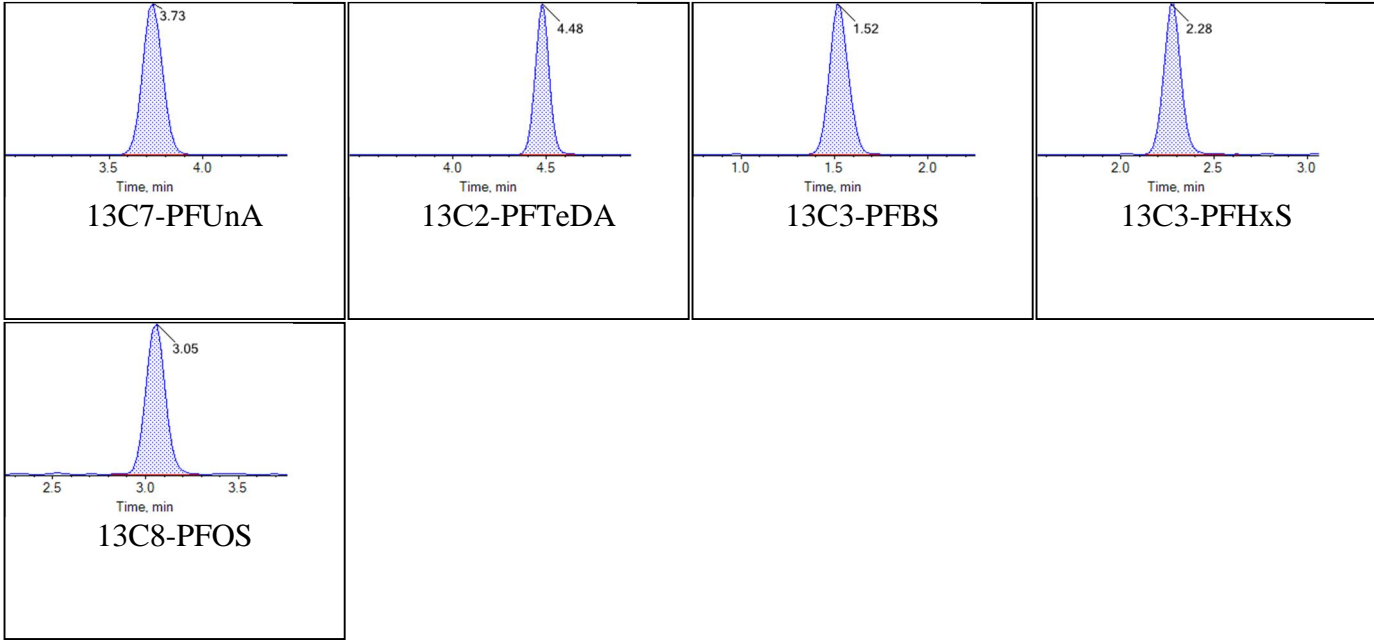


<b>Sample Name</b>	J8479-FS-D(5)	<b>Injection Vial</b>	22
<b>Sample ID</b>	VC-PM367-DW03-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:22:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

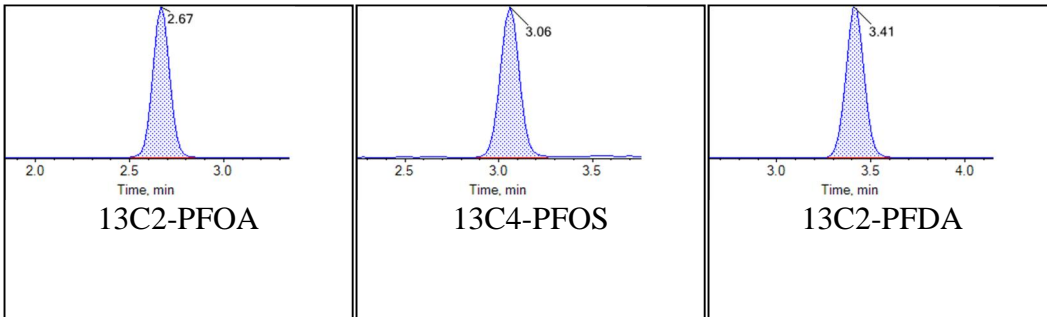
## Chromatograms

### Target Analytes:





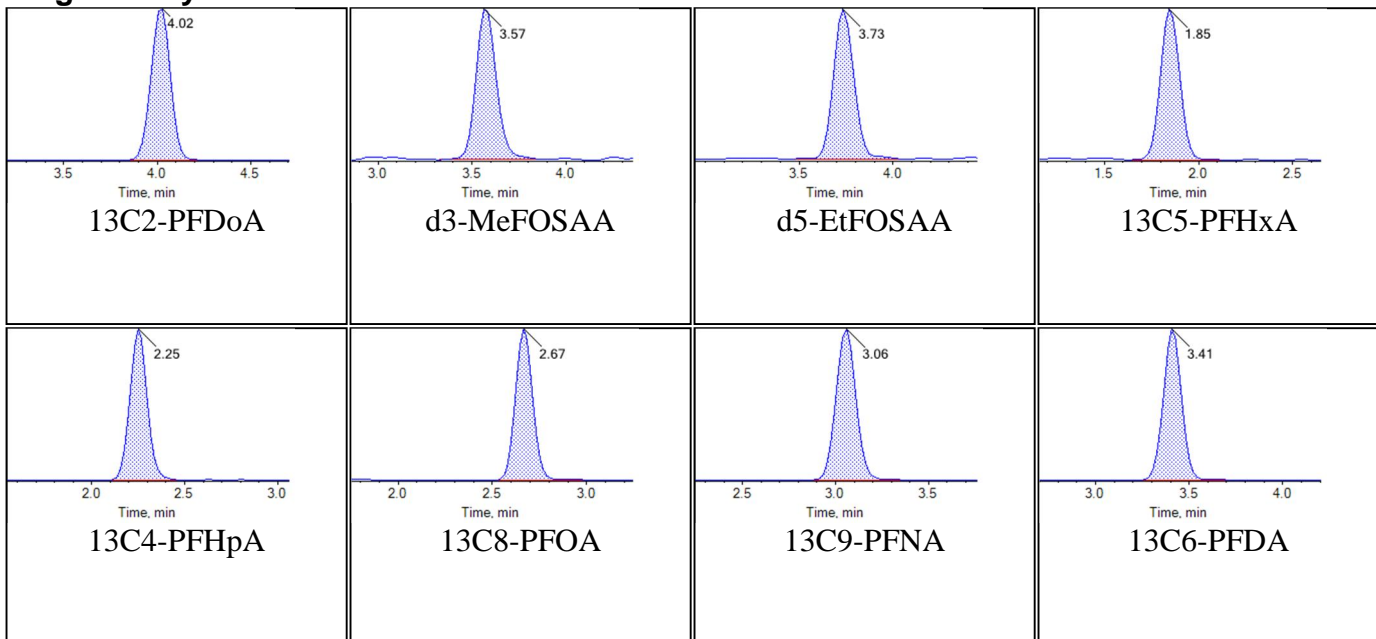
### Internal Standards:

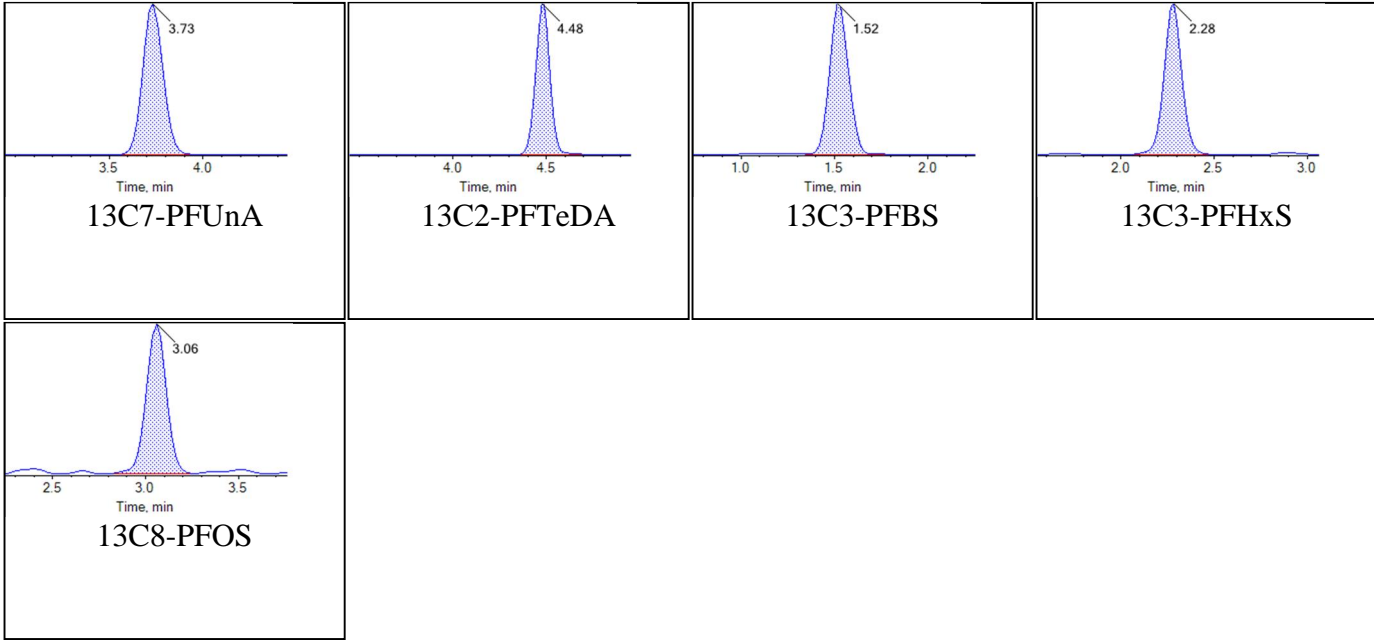


<b>Sample Name</b>	J8480-FS(0)	<b>Injection Vial</b>	23
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:33:08	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

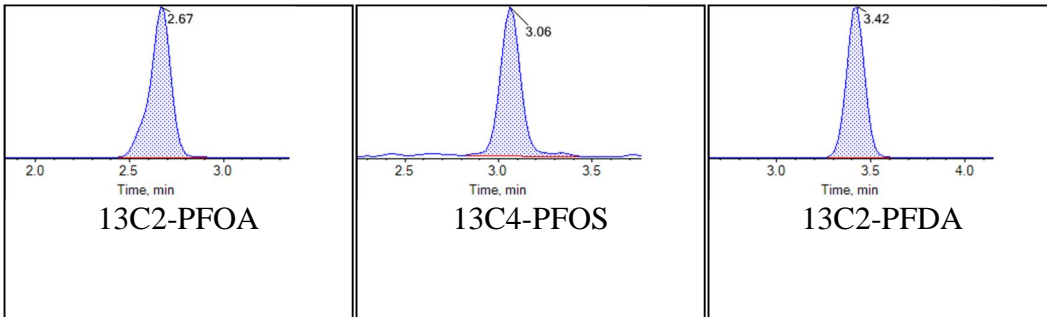
## Chromatograms

### Target Analytes:





### Internal Standards:

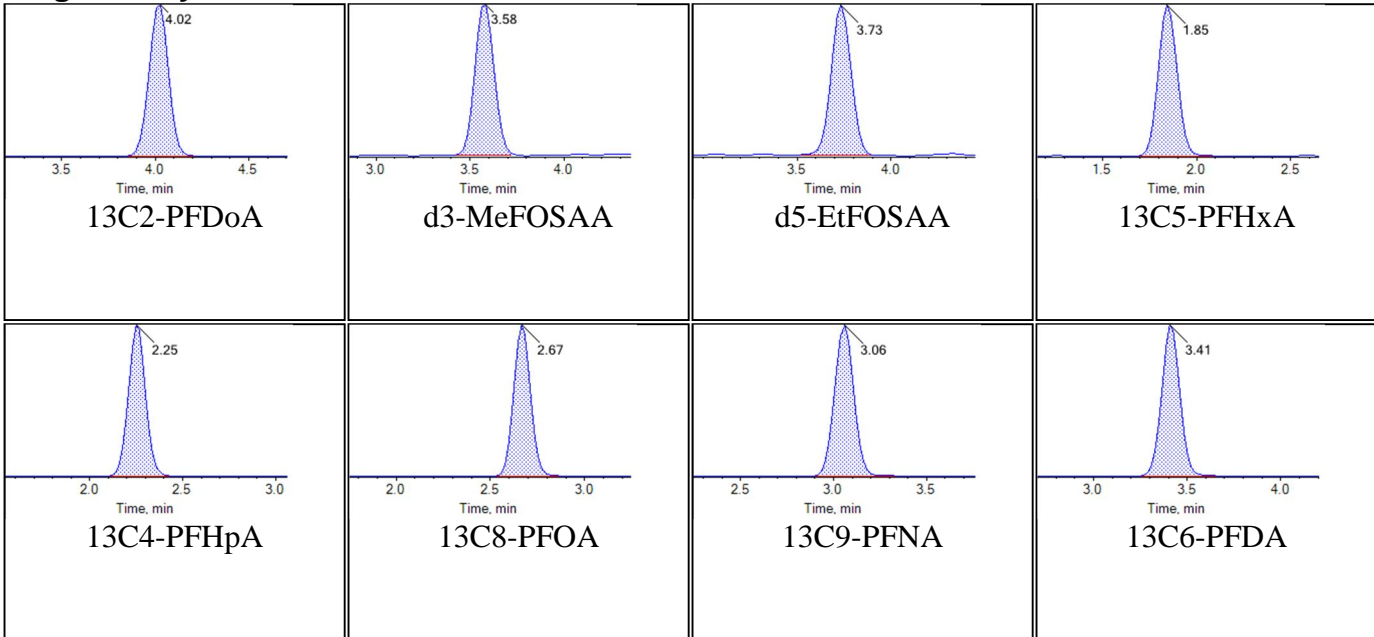


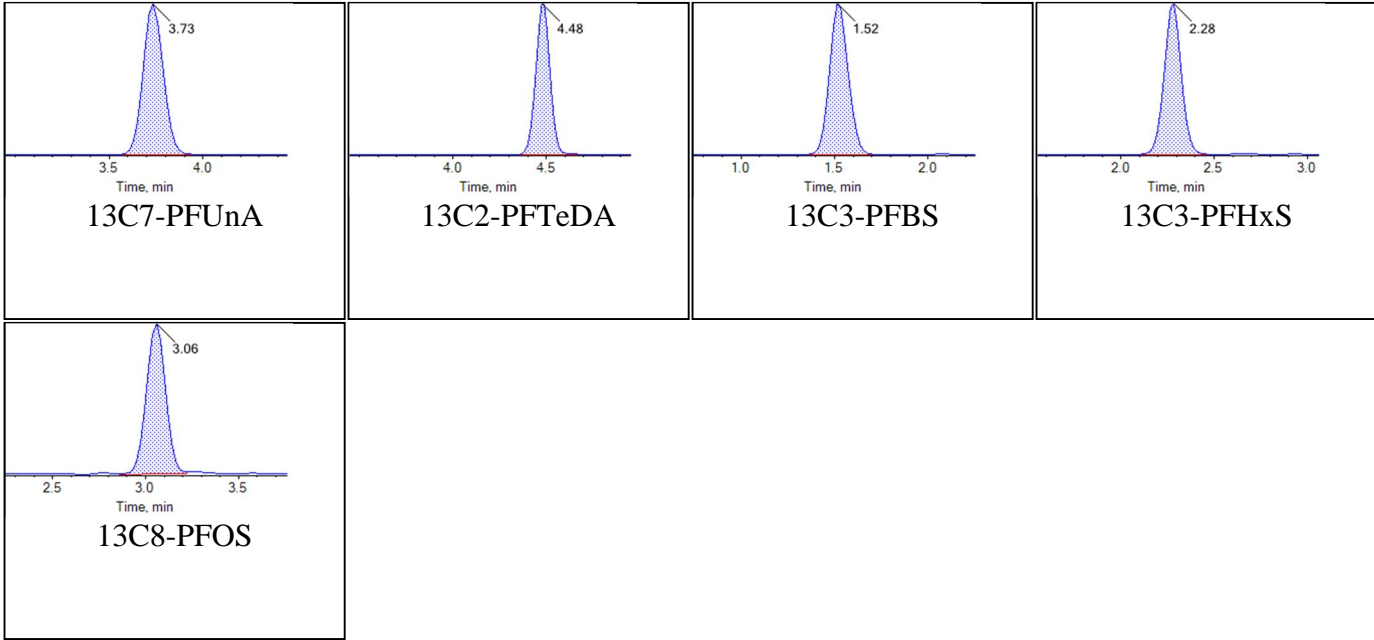


<b>Sample Name</b>	J8480-FS-D(3)	<b>Injection Vial</b>	24
<b>Sample ID</b>	VC-PM367-DW03P-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T09:44:00	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

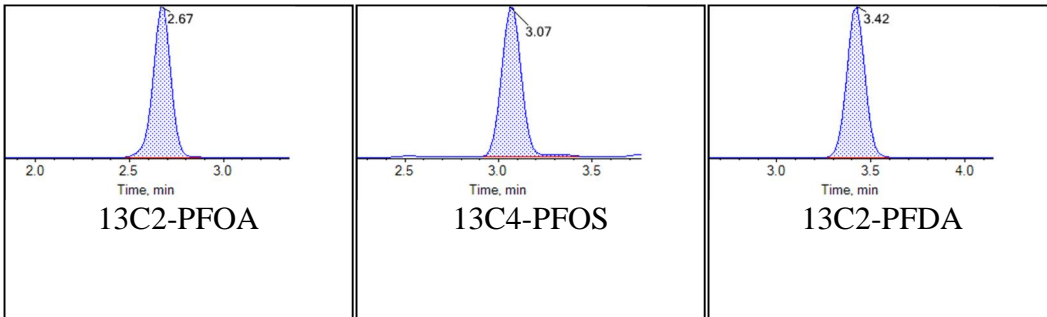
## Chromatograms

### Target Analytes:





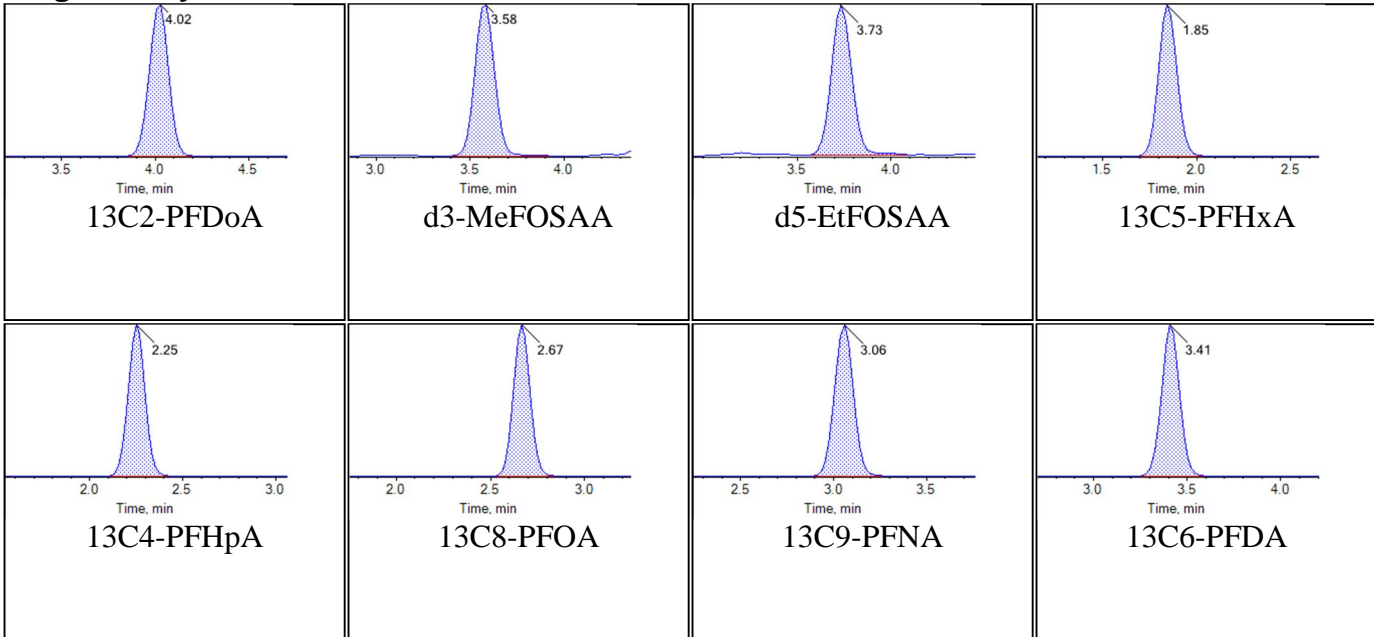
### Internal Standards:

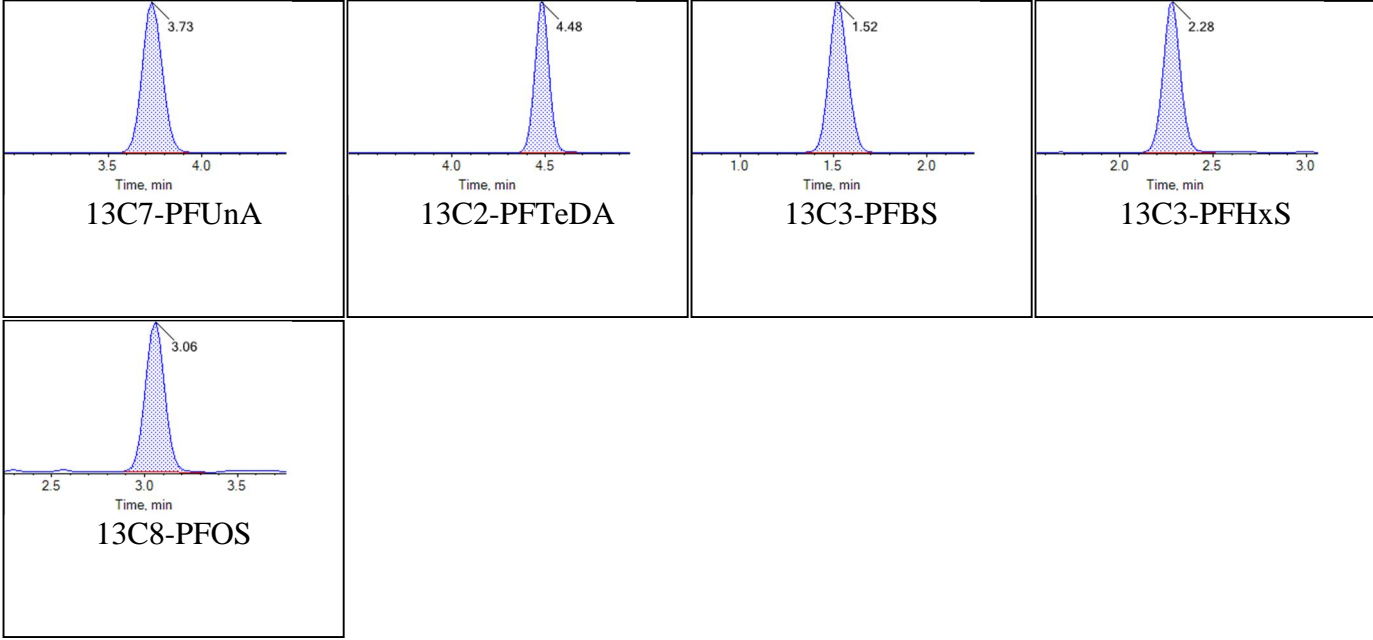


Sample Name	J8480-FS-D(5)	Injection Vial	25
Sample ID	VC-PM367-DW03P-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T09:54:54	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

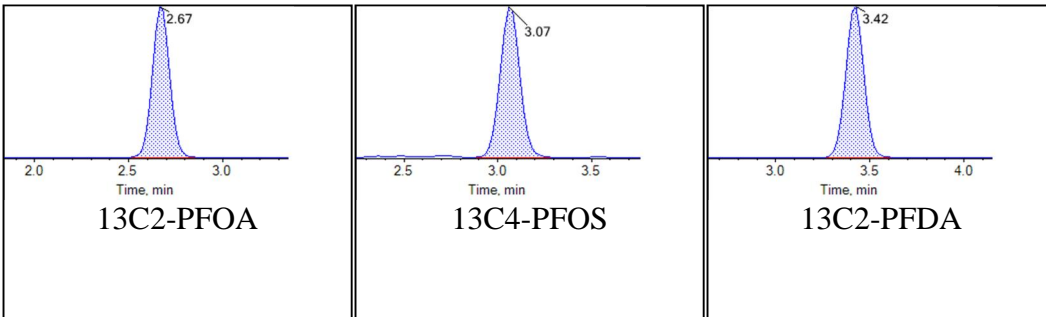
## Chromatograms

### Target Analytes:





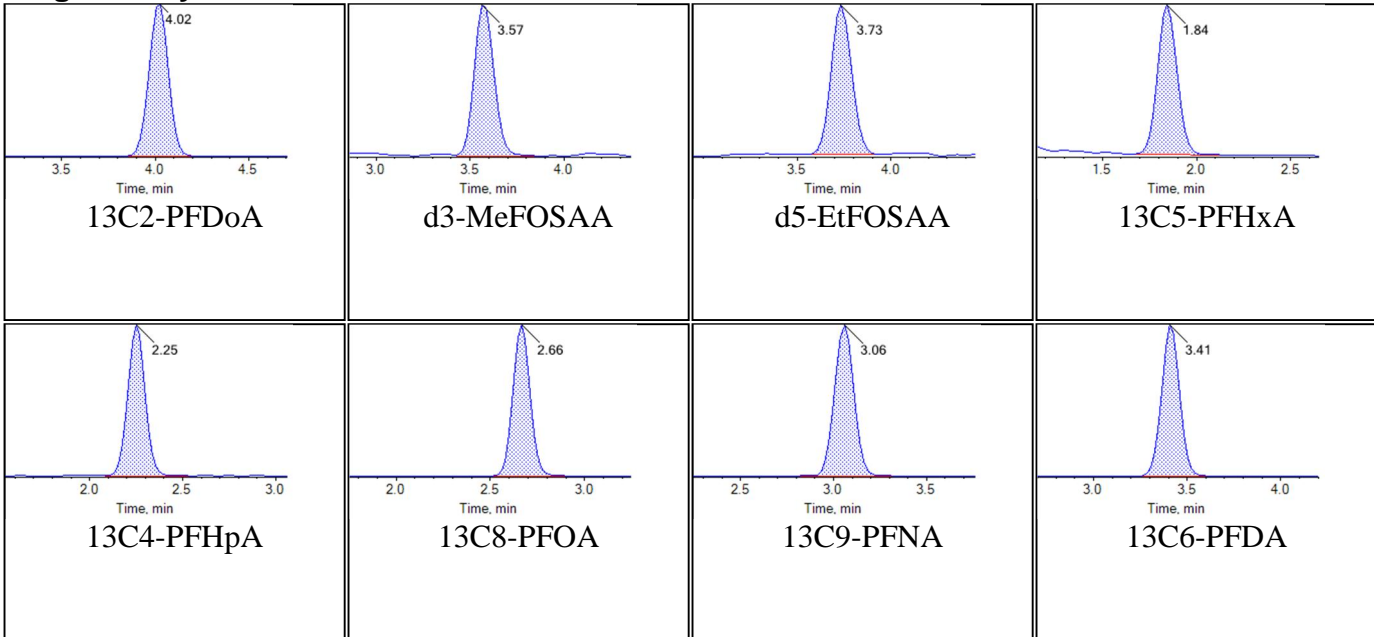
### Internal Standards:



<b>Sample Name</b>	J8481-FS(0)	<b>Injection Vial</b>	26
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:05:48	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

## Chromatograms

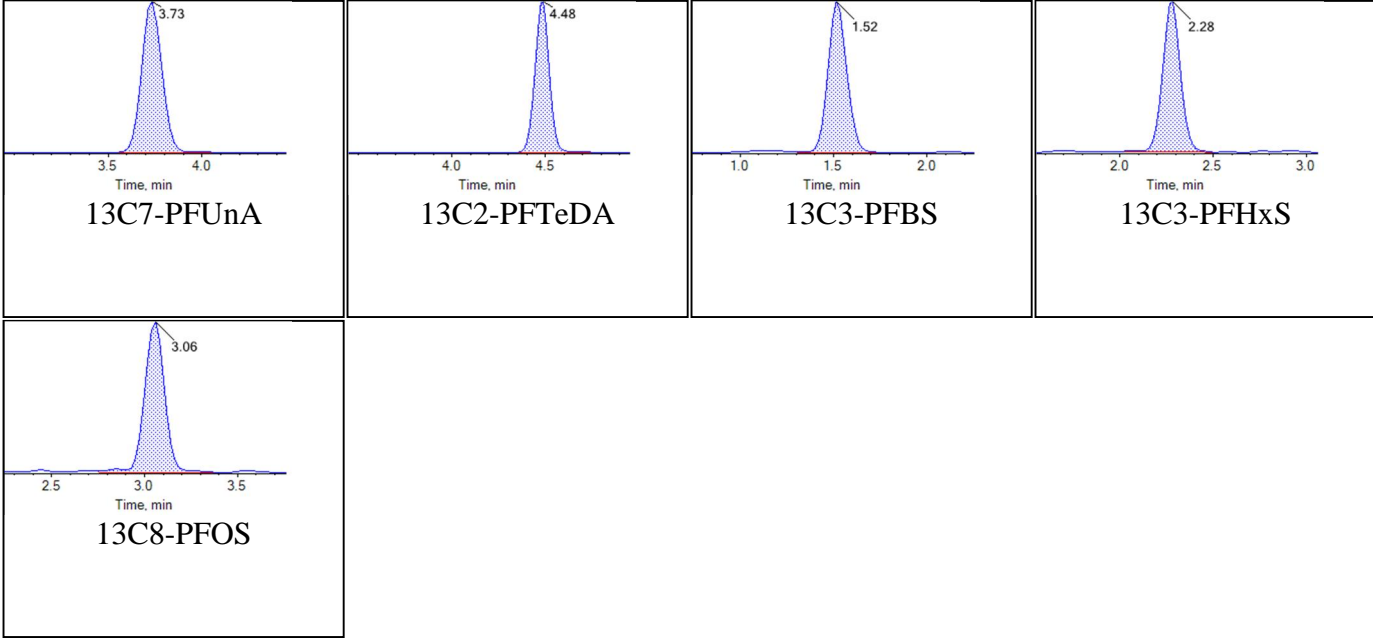
### Target Analytes:



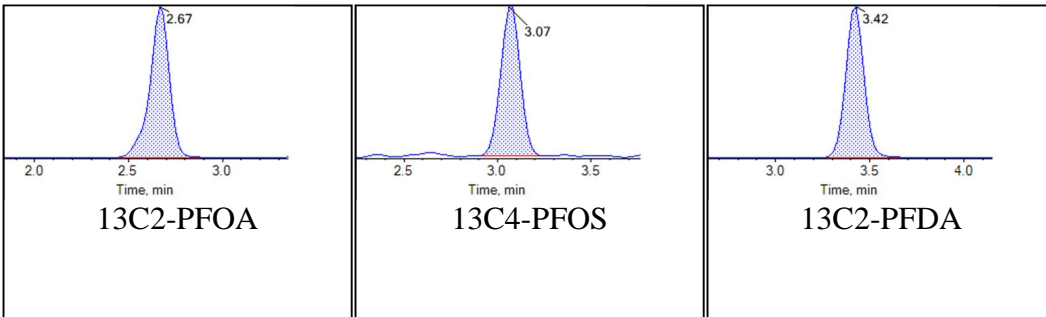


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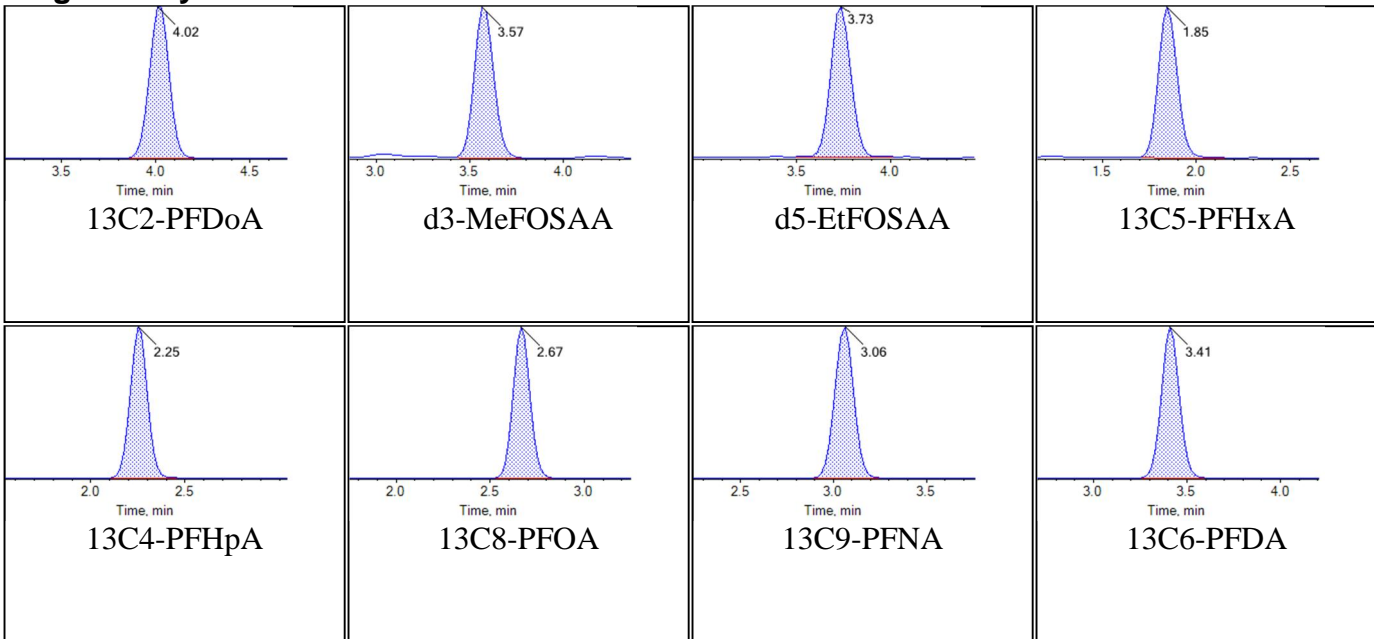
Internal Standards:

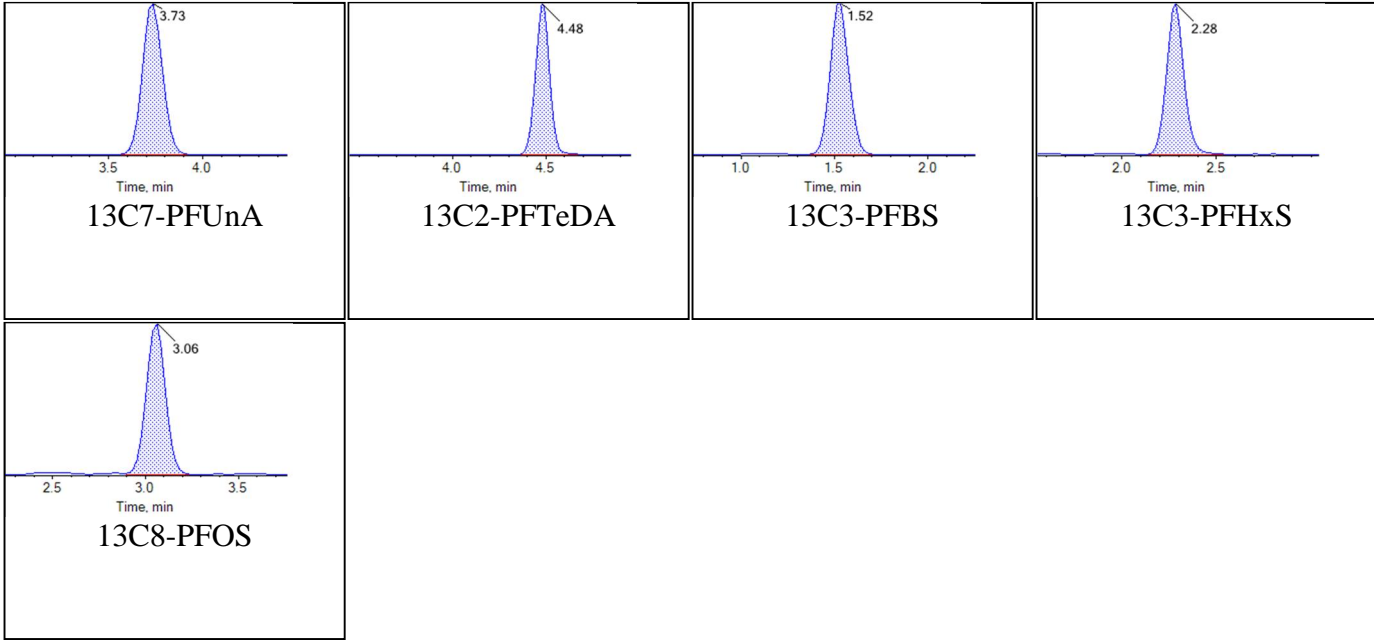


<b>Sample Name</b>	J8481-FS-D(3)	<b>Injection Vial</b>	27
<b>Sample ID</b>	VC-PM367-DW04-0918	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T10:16:41	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

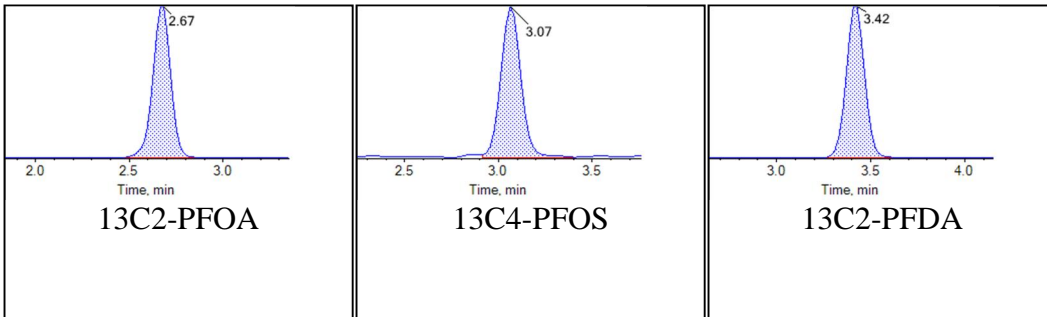
## Chromatograms

### Target Analytes:





### Internal Standards:

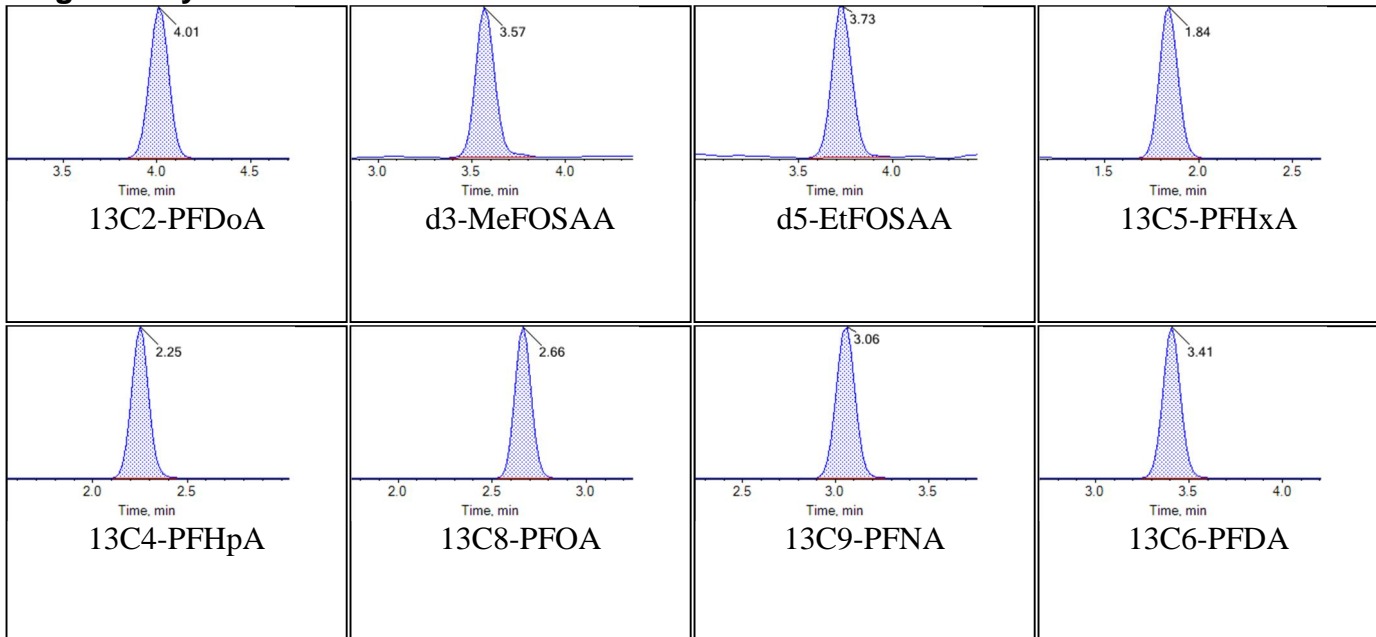


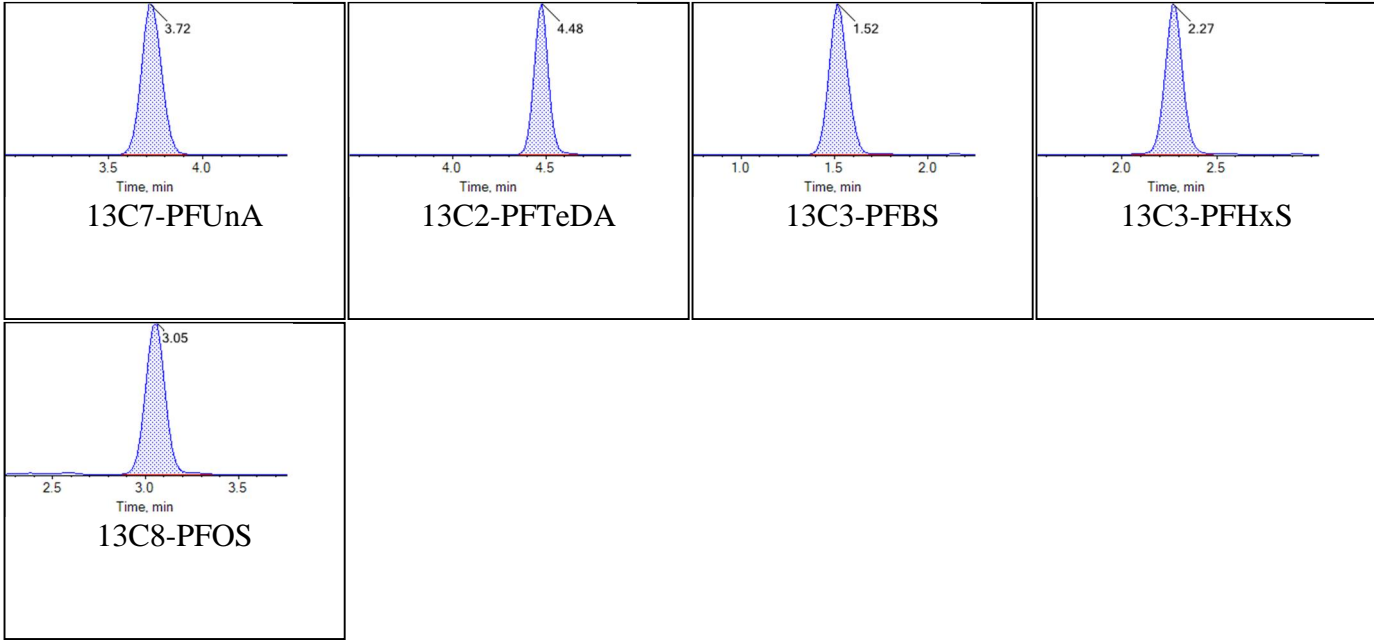


Sample Name	J8481-FS-D(5)	Injection Vial	28
Sample ID	VC-PM367-DW04-0918	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:27:34	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

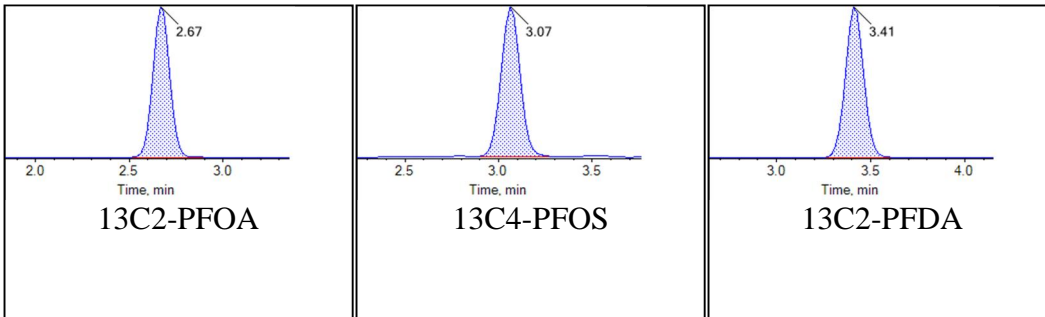
## Chromatograms

### Target Analytes:





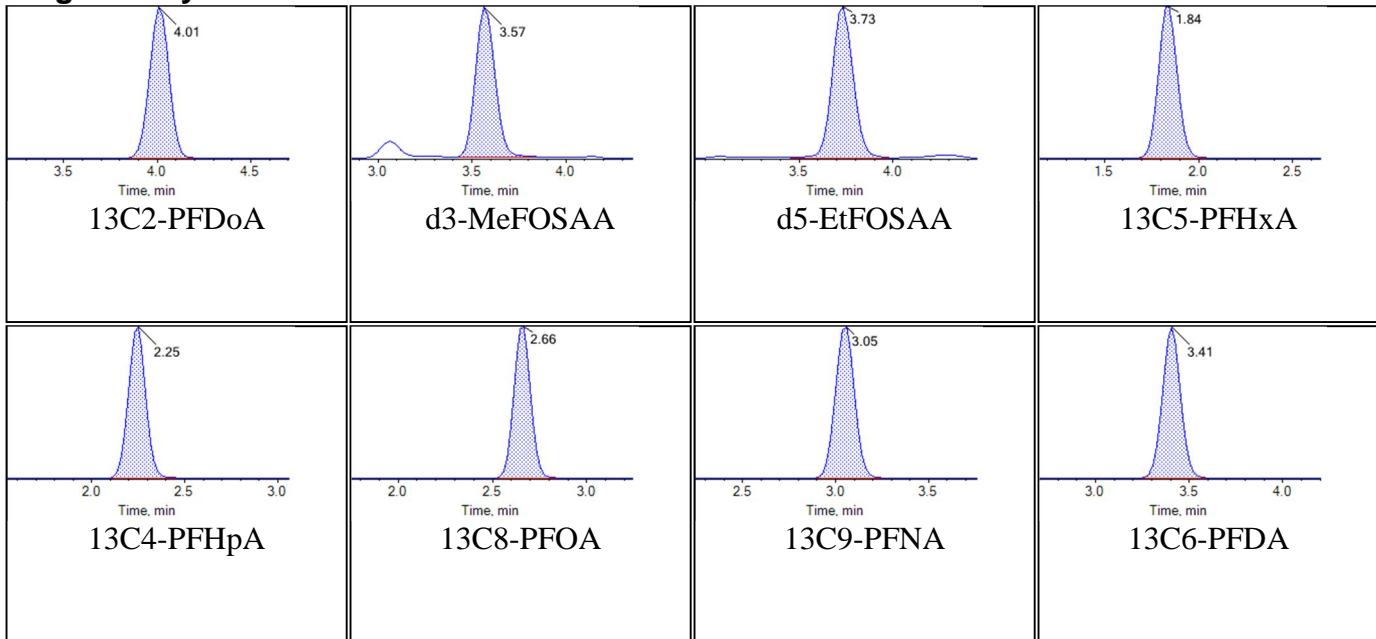
### Internal Standards:

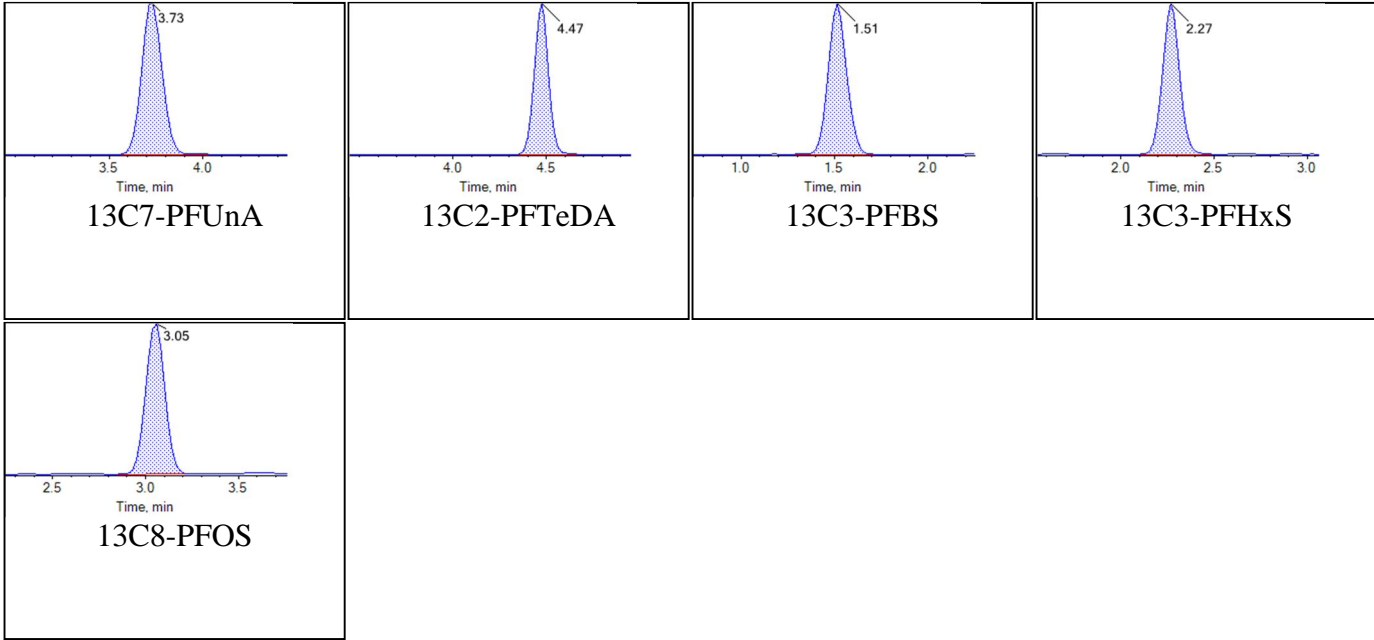


Sample Name	KB77 CCV	Injection Vial	29
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T10:38:28	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

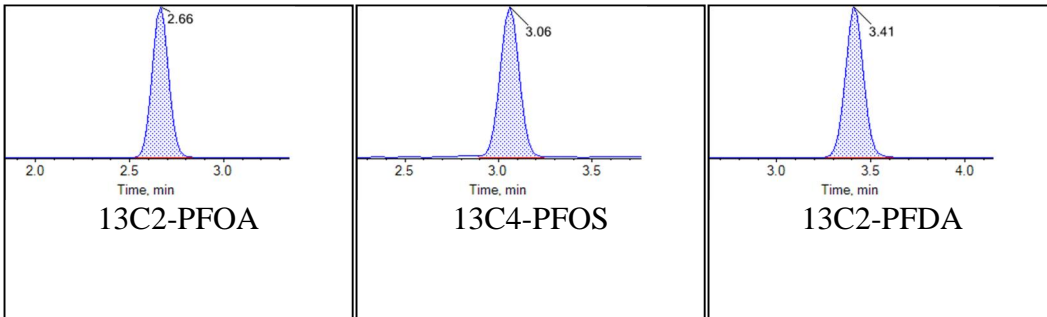
## Chromatograms

### Target Analytes:





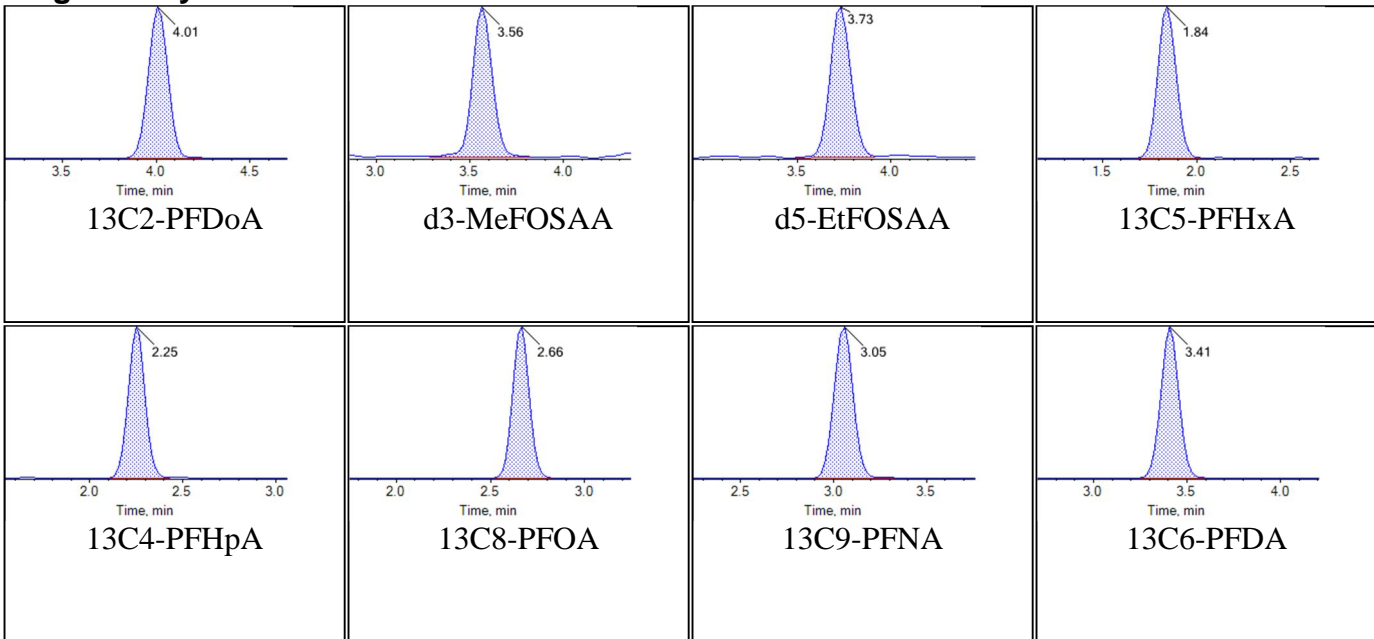
### Internal Standards:

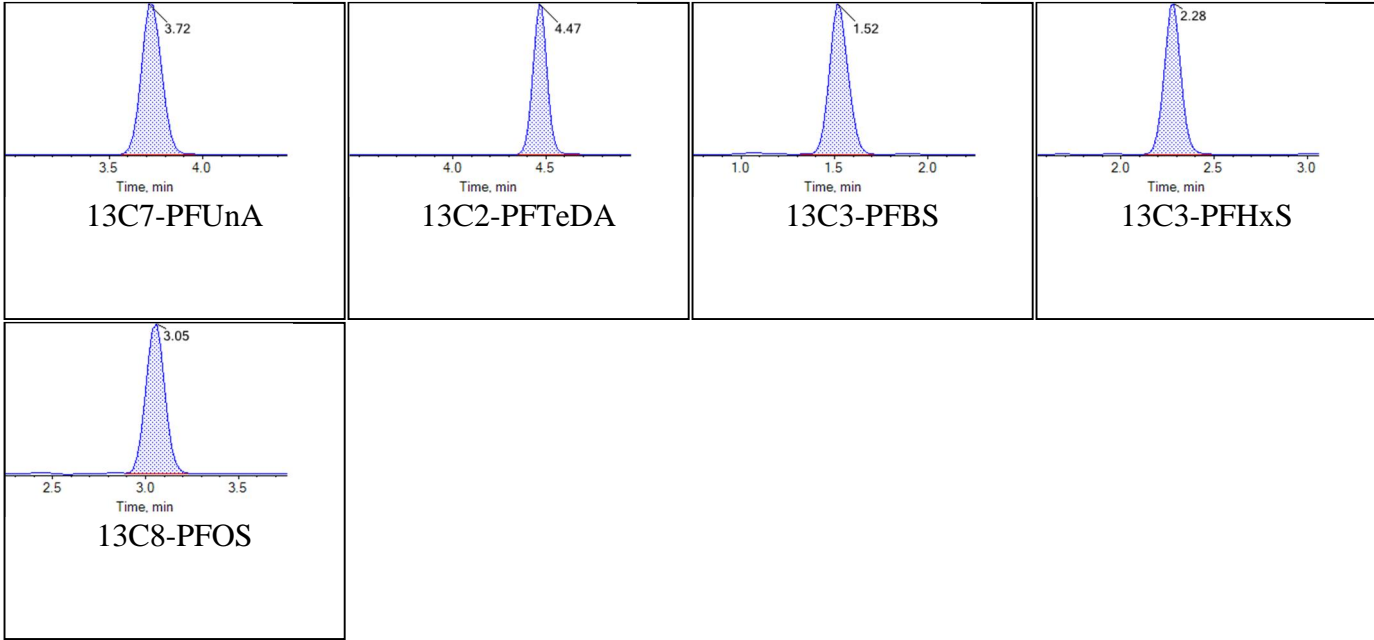


Sample Name	J8482-FS(0)	Injection Vial	31
Sample ID	VC-AQ-FB08-09272018	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-18T11:00:14	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	18-0590_18-0588_18-0589_SIS
Sample Comment			

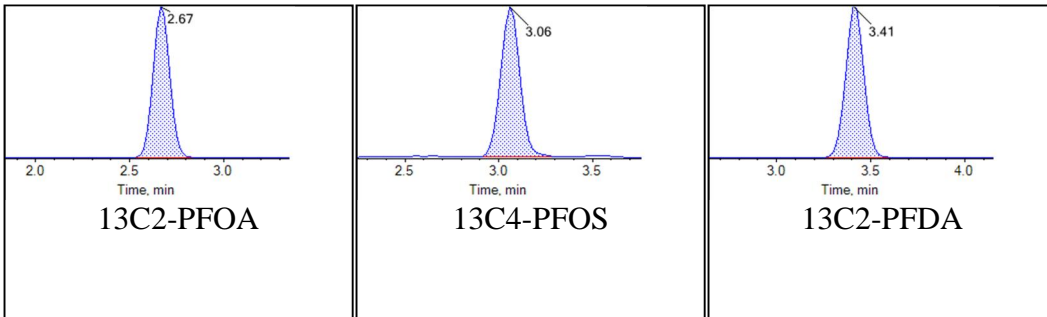
## Chromatograms

### Target Analytes:





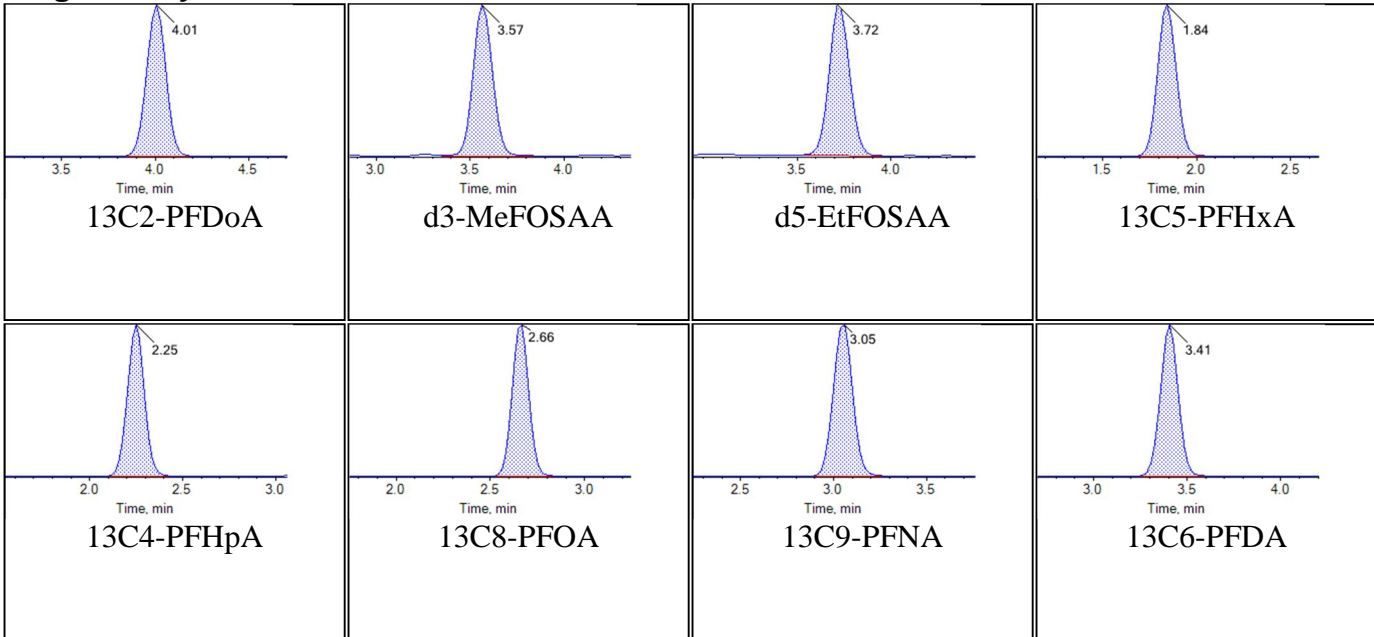
### Internal Standards:

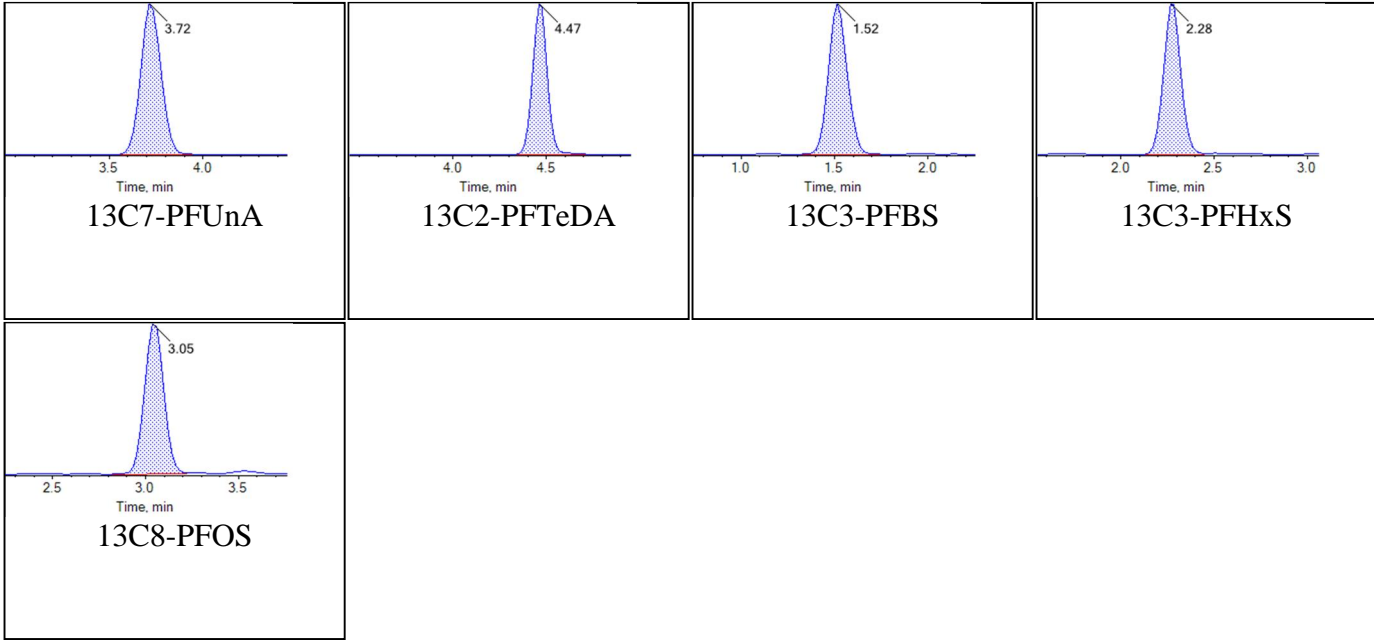


<b>Sample Name</b>	J8483-FS(0)	<b>Injection Vial</b>	32
<b>Sample ID</b>	VC-AQ-EB08-09272018	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:11:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

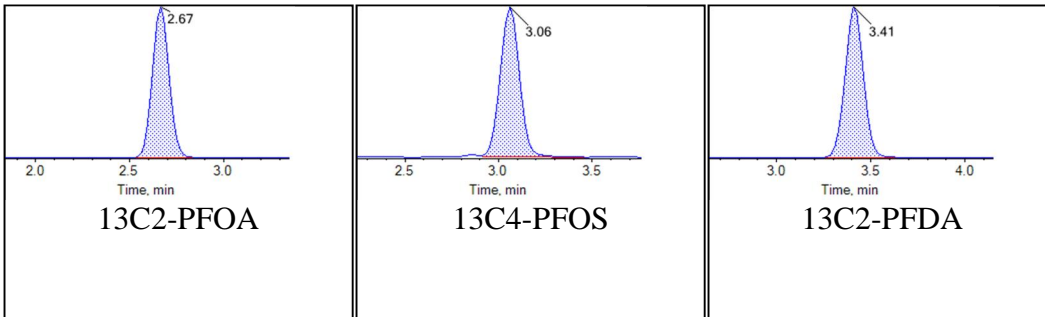
## Chromatograms

### Target Analytes:





### Internal Standards:

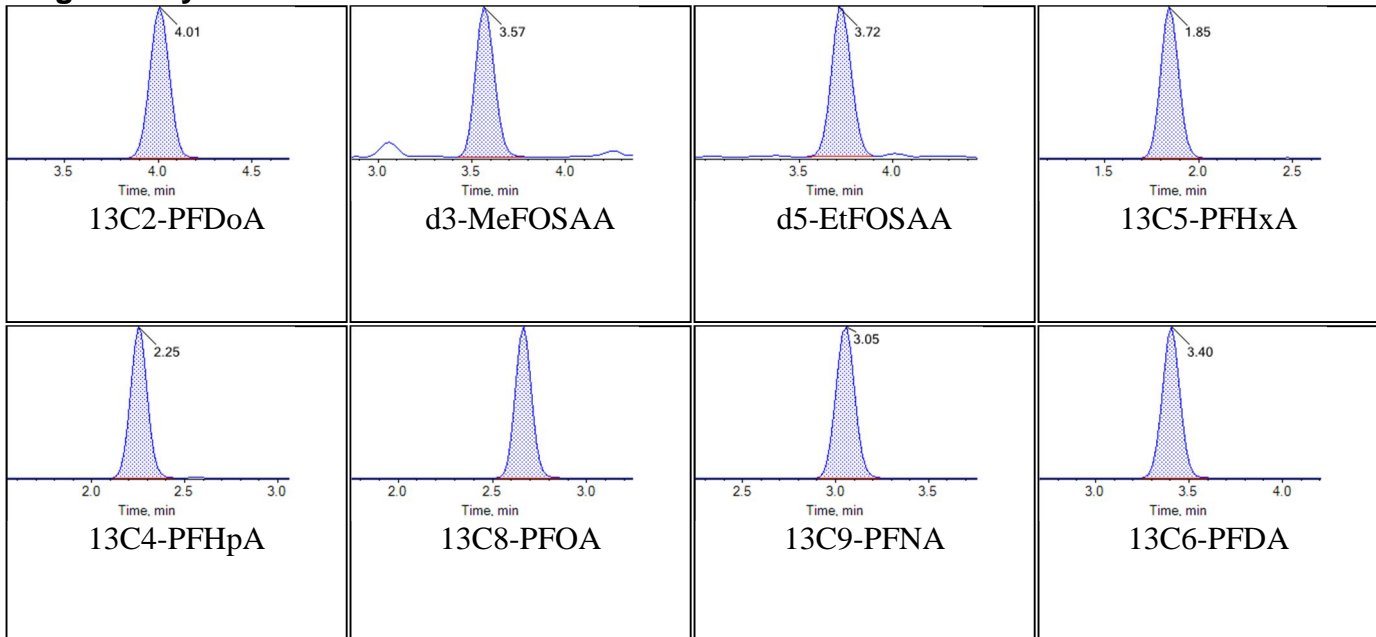


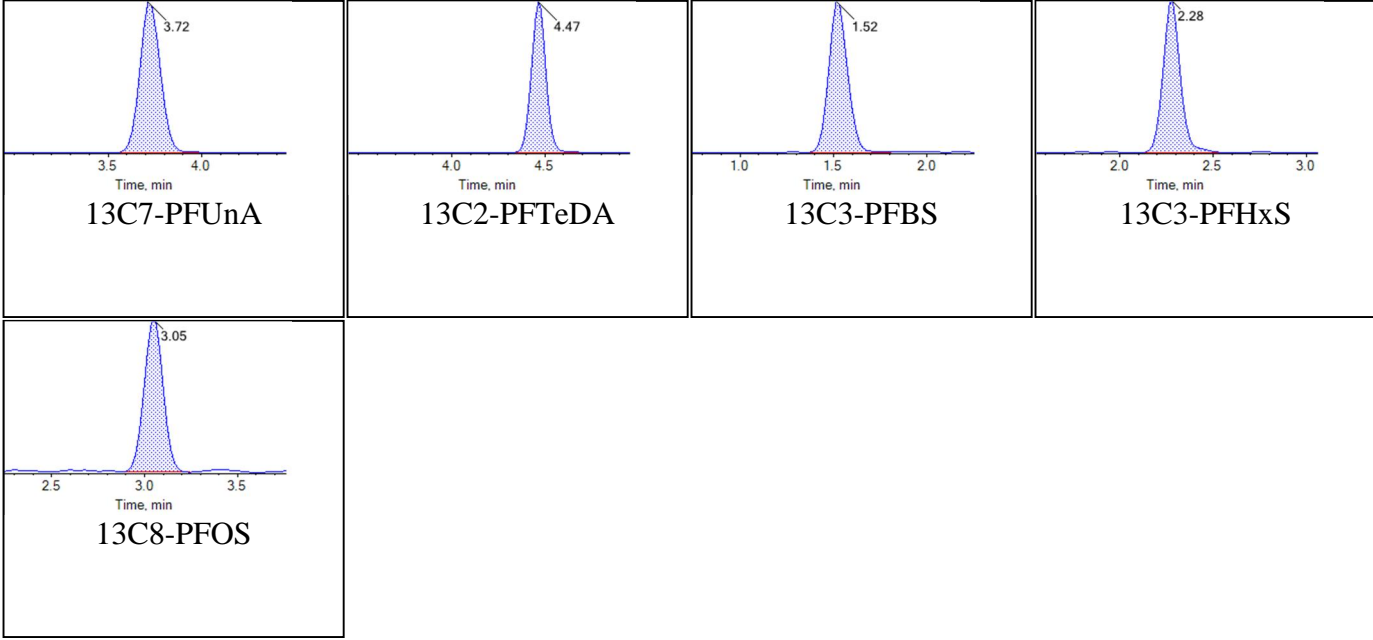


<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	33
<b>Sample ID</b>		<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-18T11:22:00	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18-0590_18-0588_18-0589_SIS
<b>Sample Comment</b>			

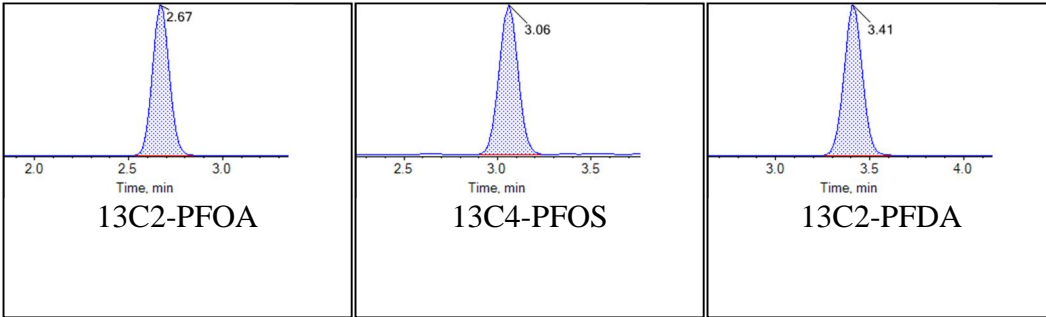
## Chromatograms

### Target Analytes:





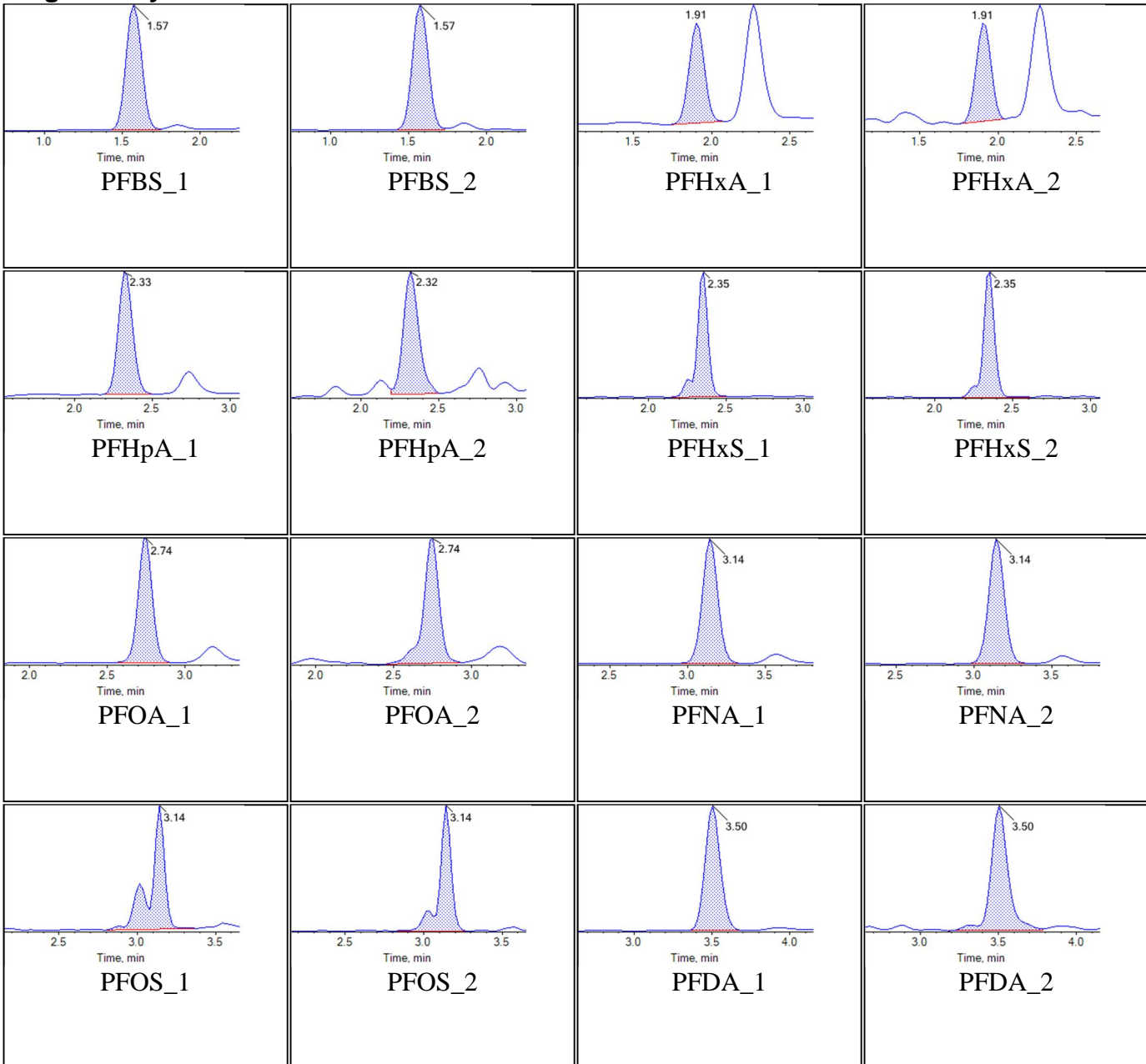
### Internal Standards:

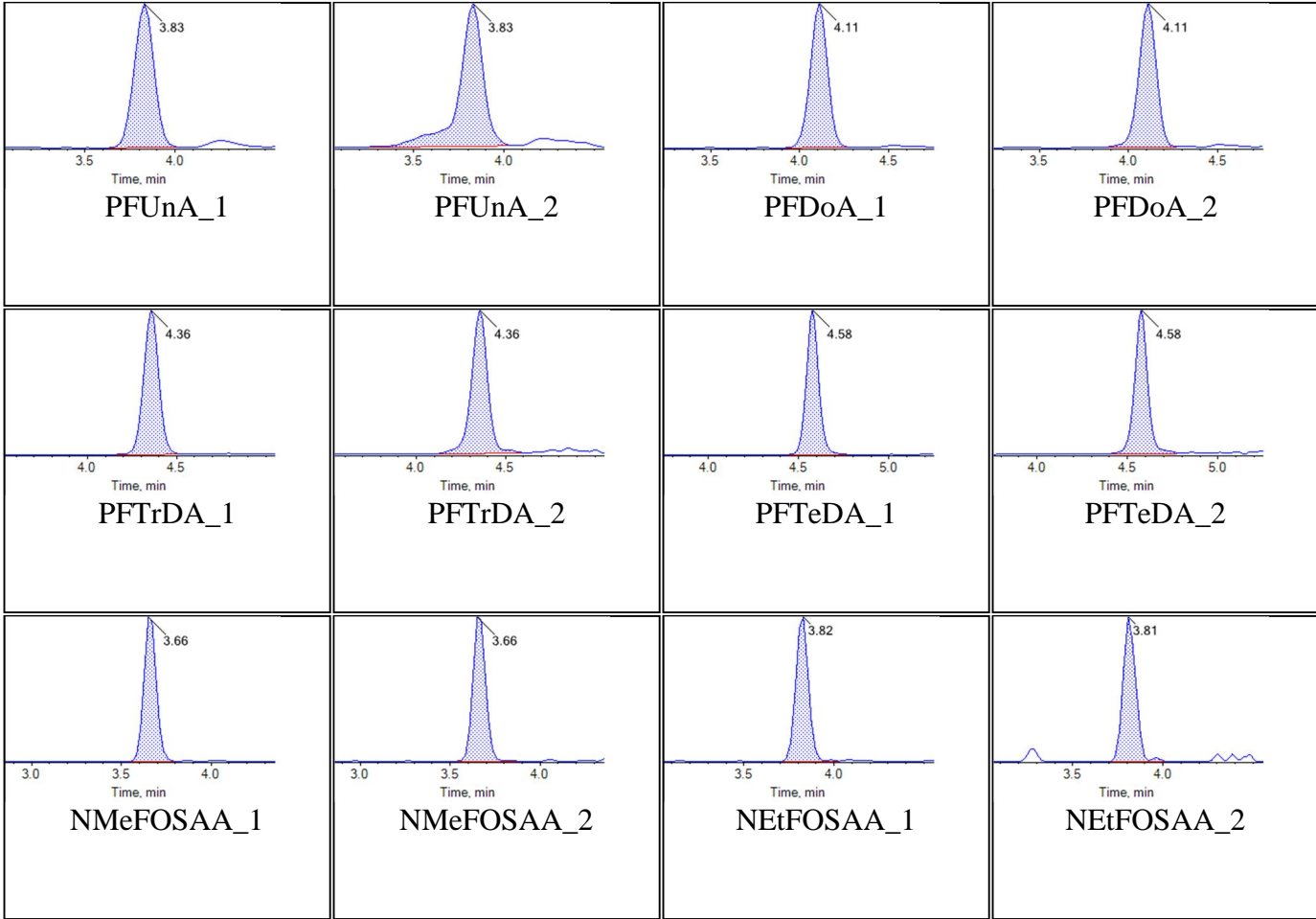


<b>Sample Name</b>	KB75 ISC	<b>Injection Vial</b>	1
<b>Sample ID</b>	Instrument Sensitivity Check	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T18:16:51	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

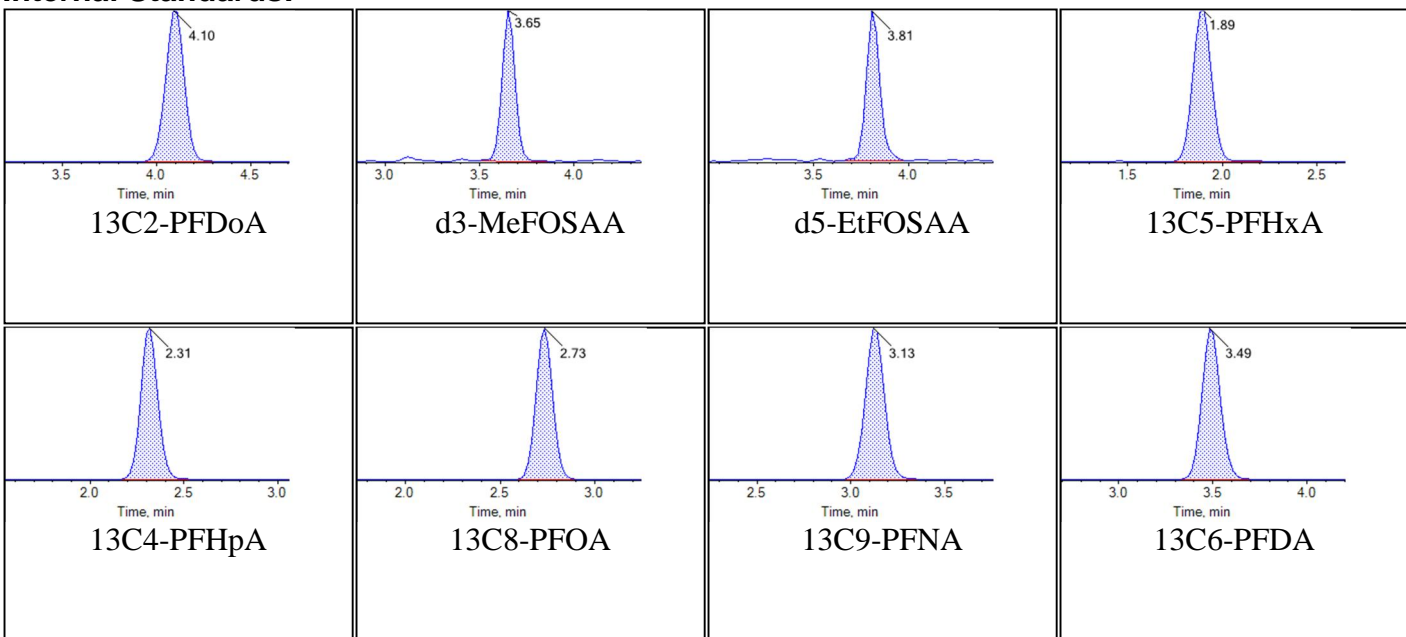
## Chromatograms

### Target Analytes:



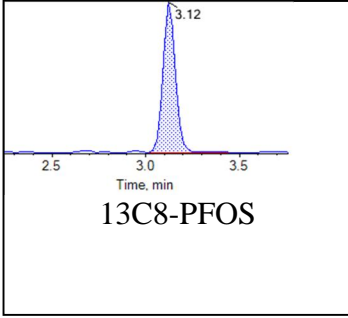
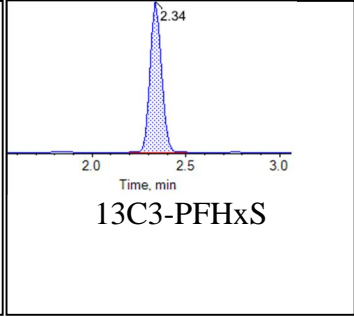
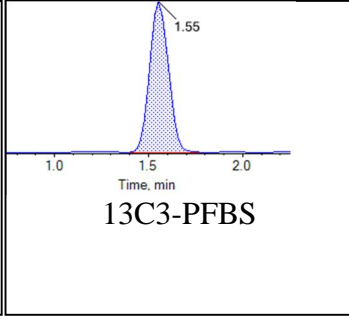
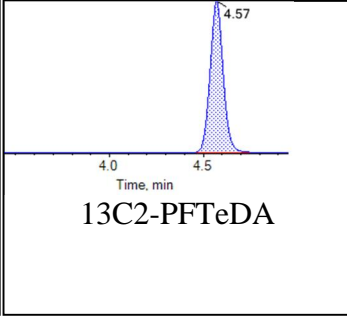
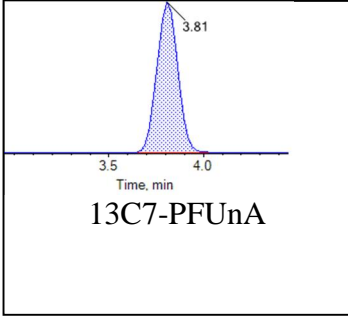


### Internal Standards:



## Chromatogram Report

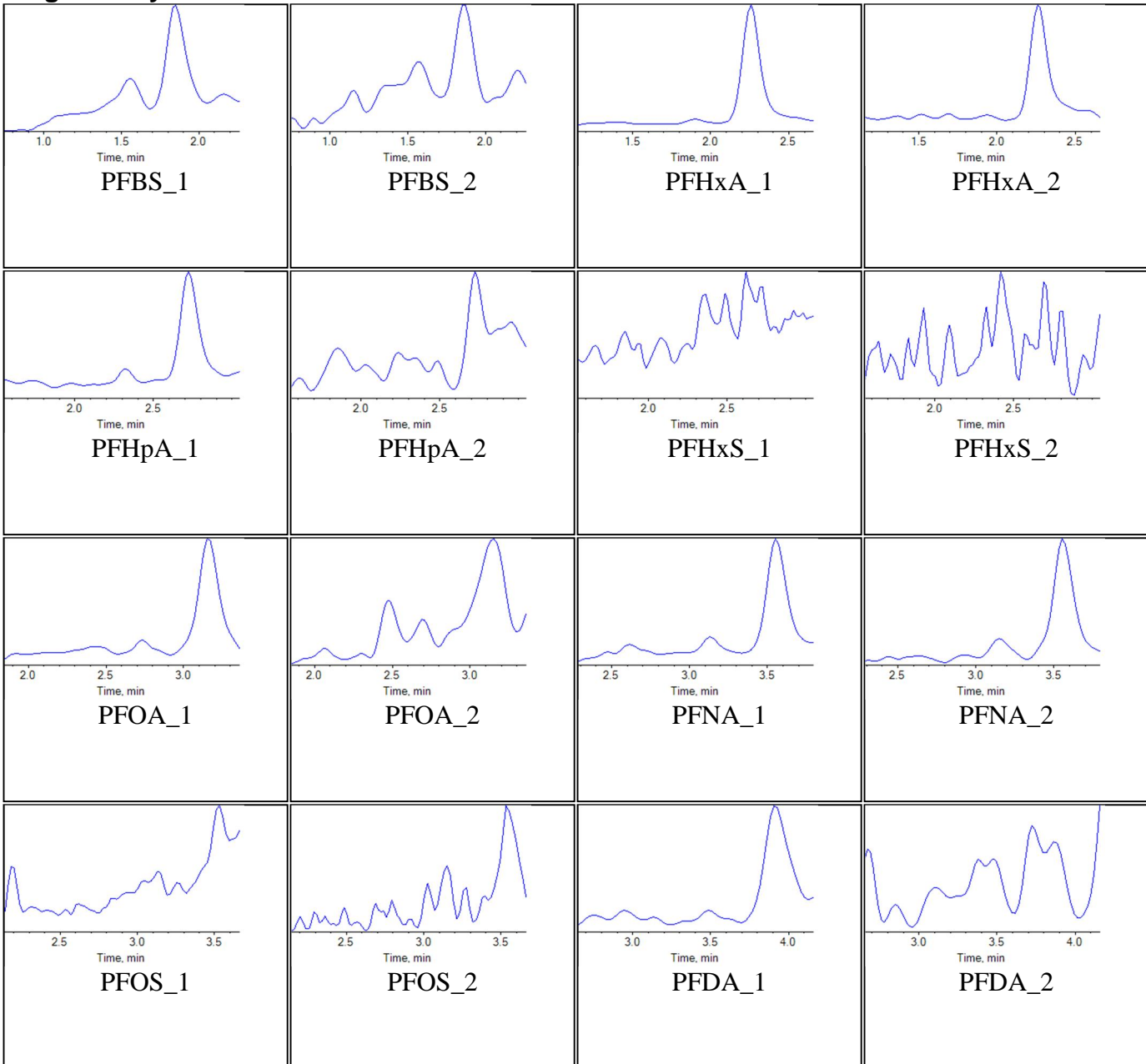
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Printed: 25/10/2018 9:51:31 AM

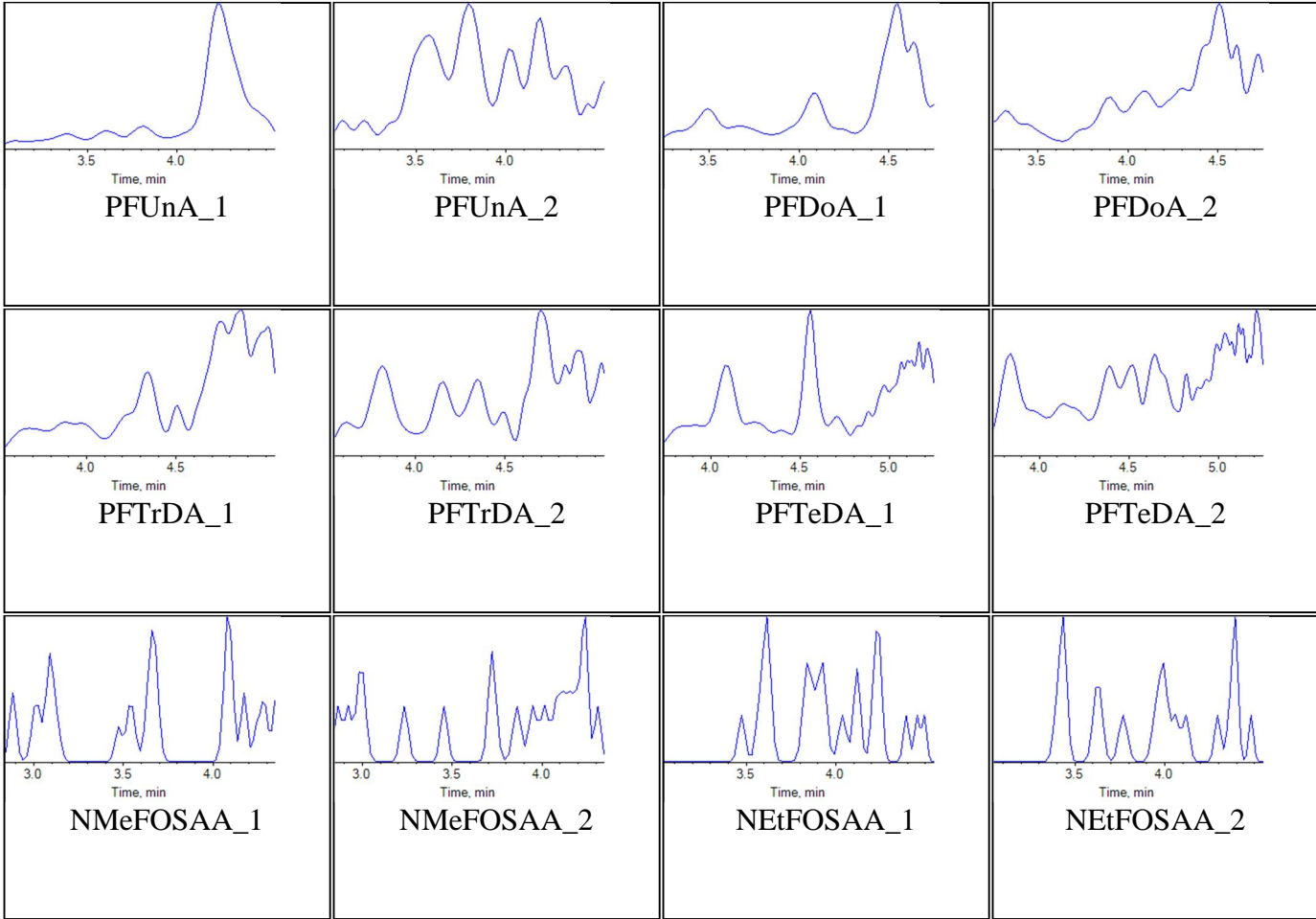


Sample Name	KB80 IB	Injection Vial	2
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T18:27:43	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

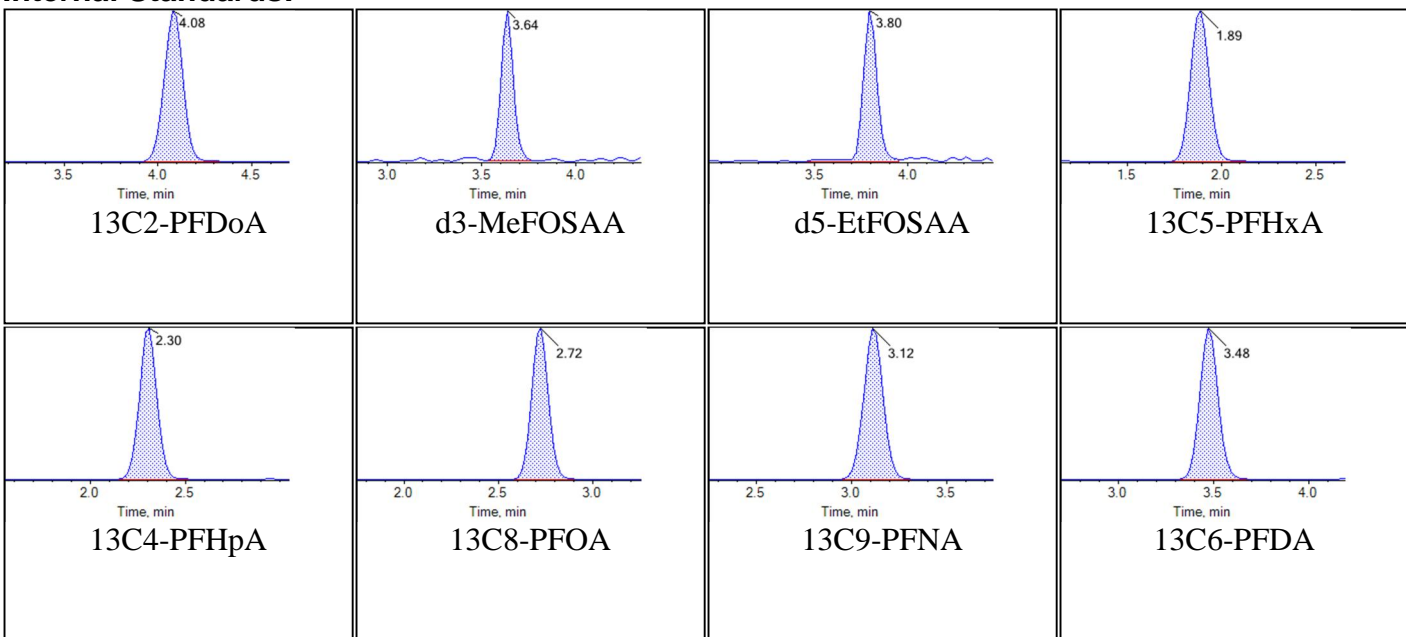
## Chromatograms

### Target Analytes:



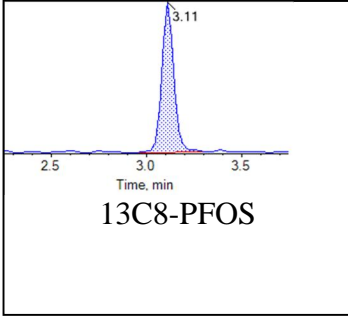
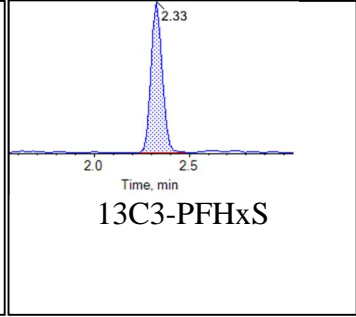
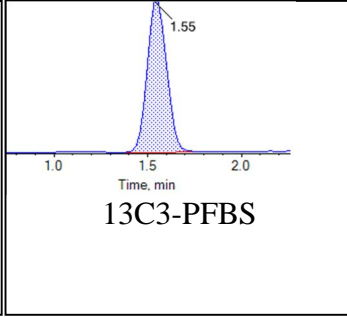
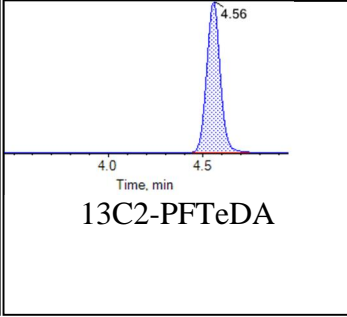
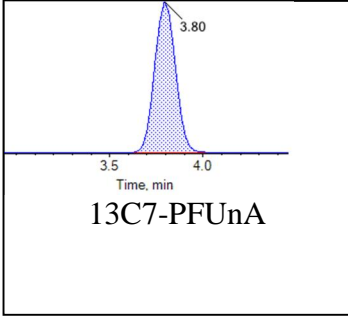


## Internal Standards:



## Chromatogram Report

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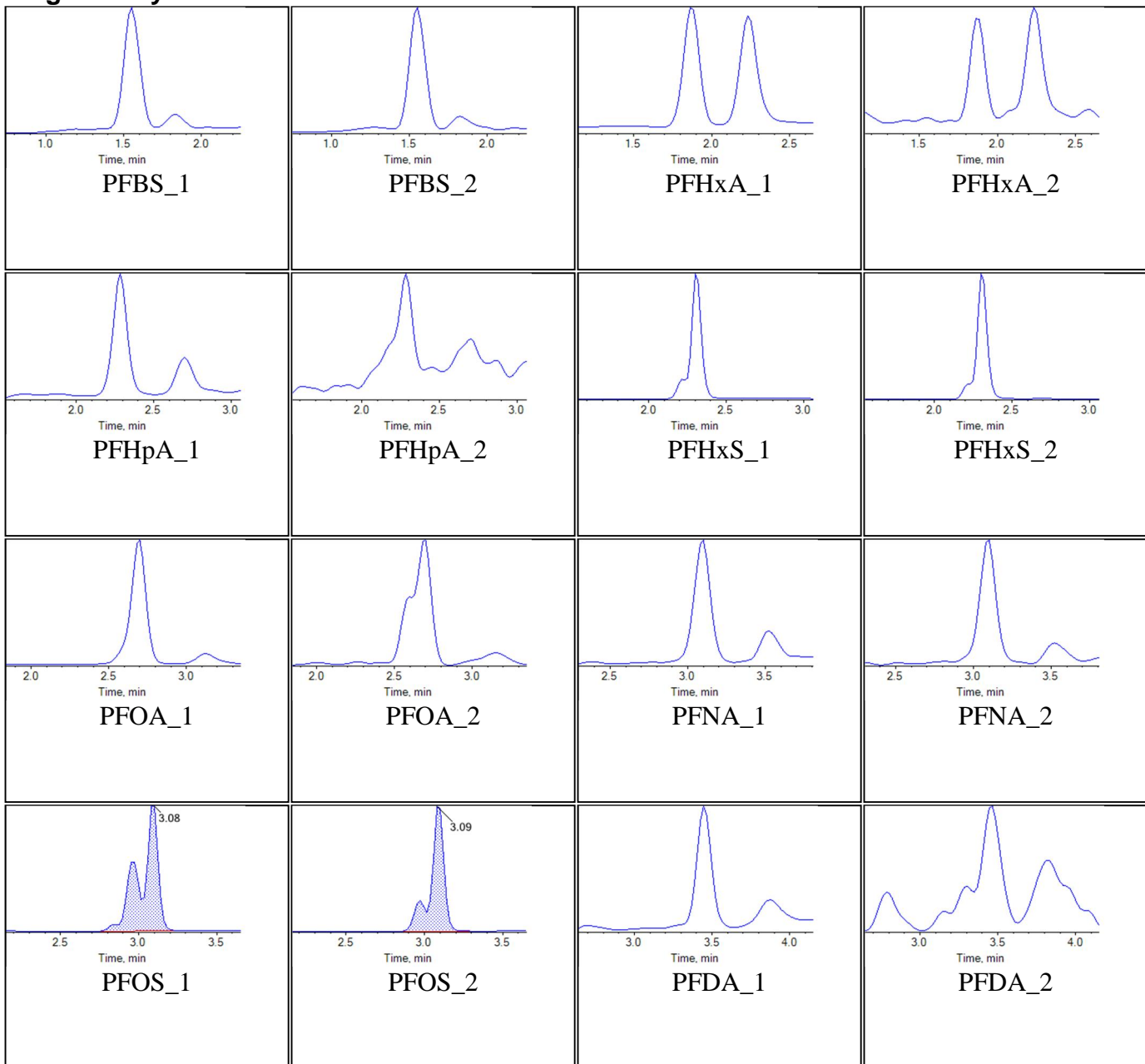


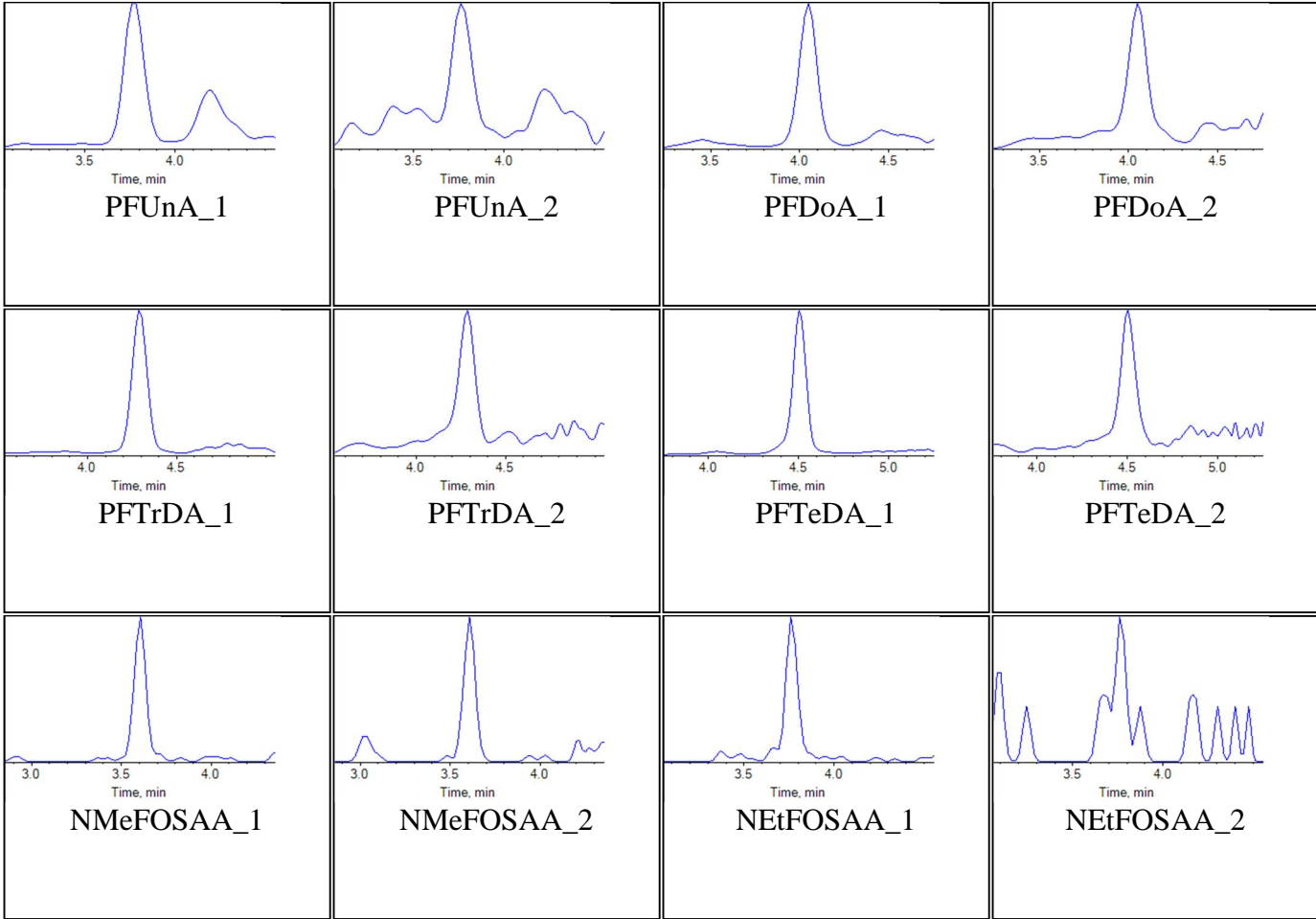


Sample Name	J8464MSD-FS-D(7)	Injection Vial	12
Sample ID	VC-MS09-DW05-0918-MSD	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:27:19	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

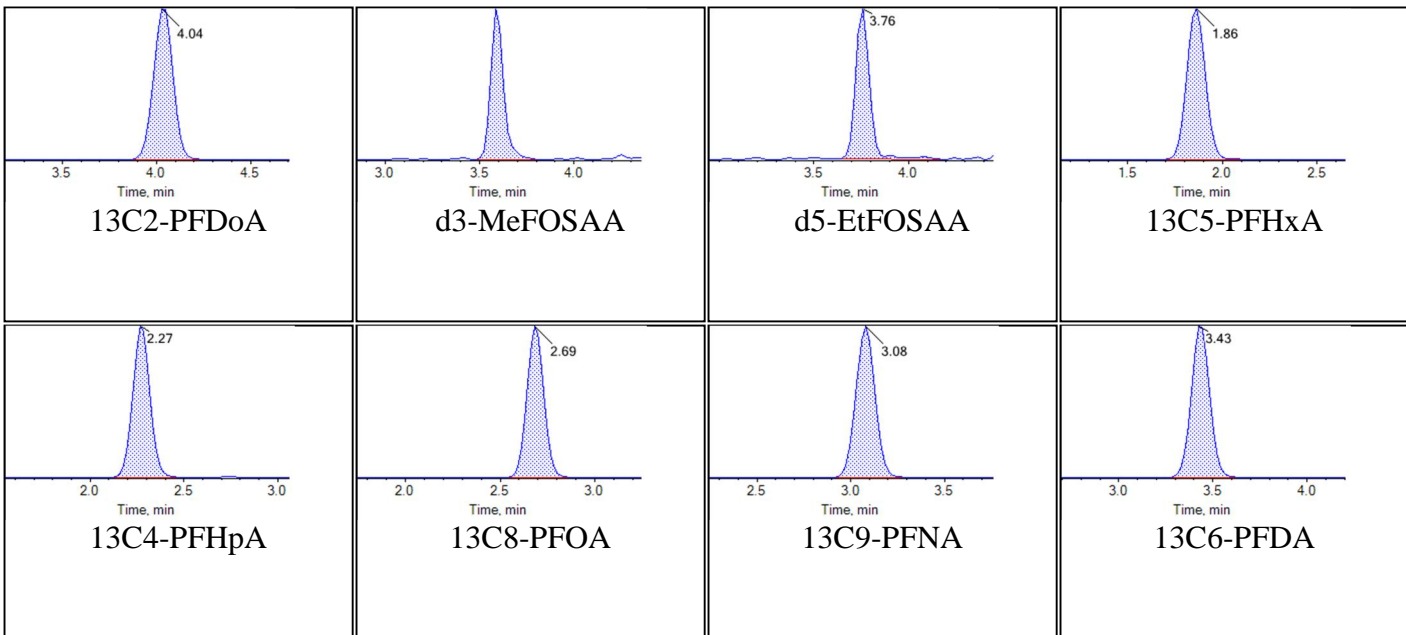
## Chromatograms

### Target Analytes:



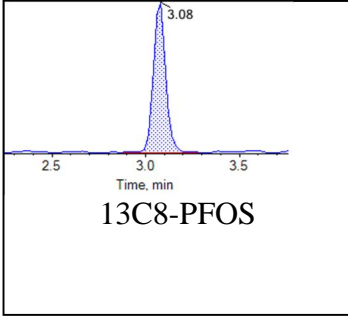
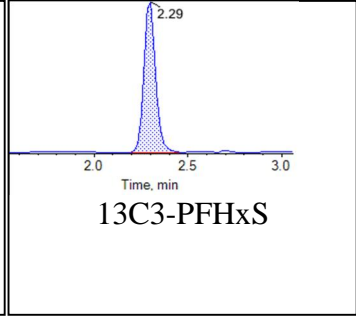
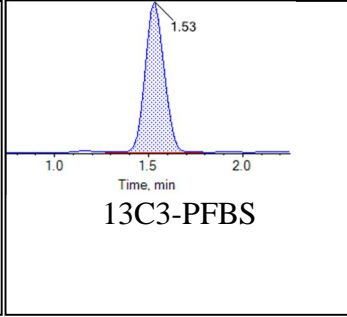
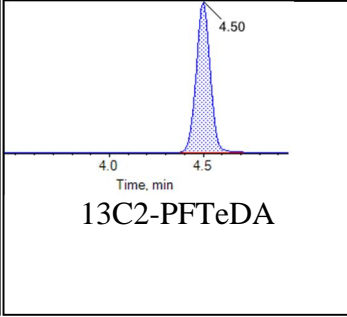
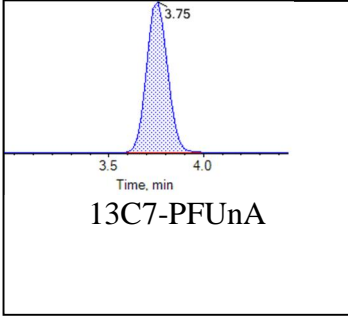


### Internal Standards:



## Chromatogram Report

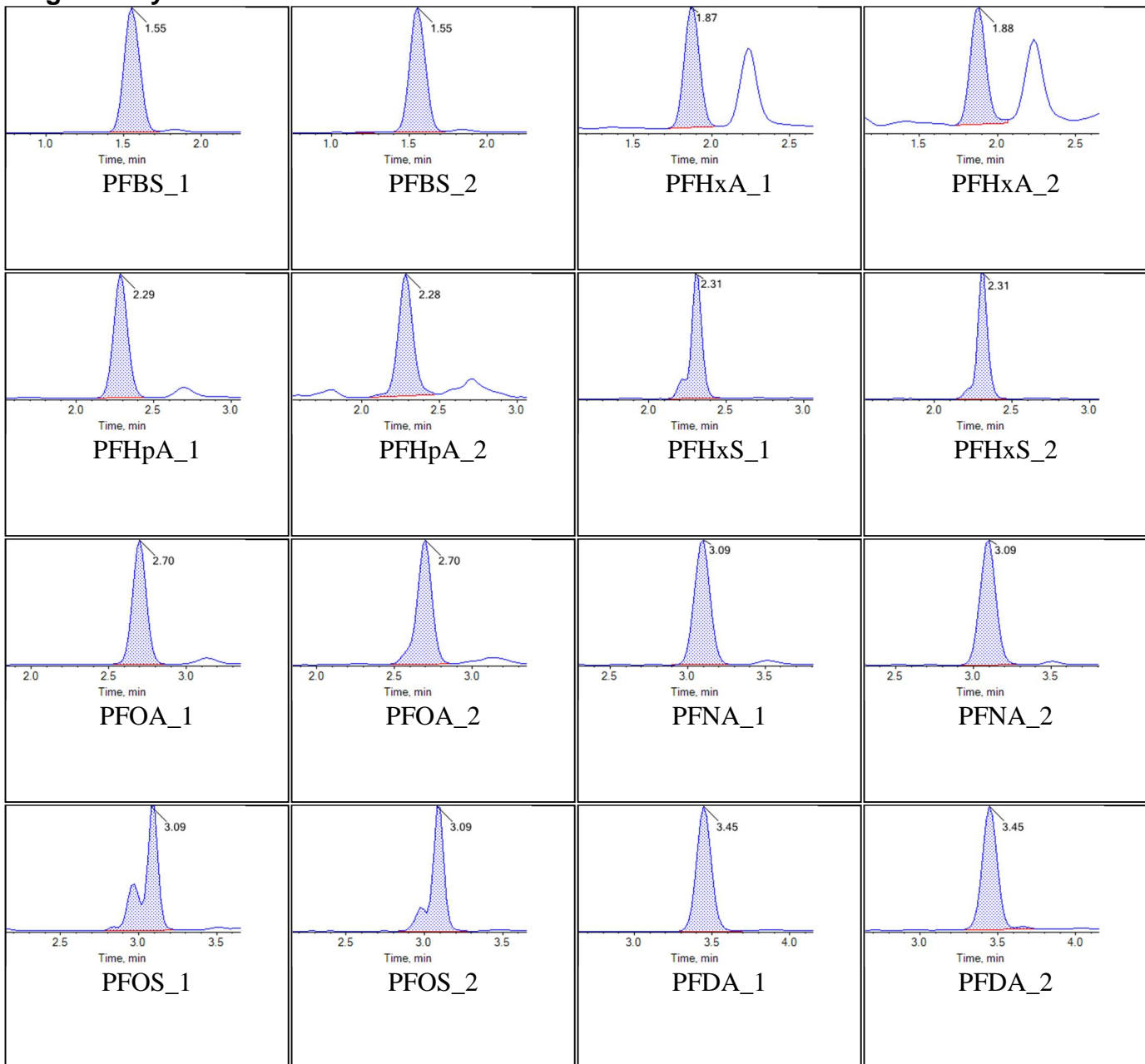
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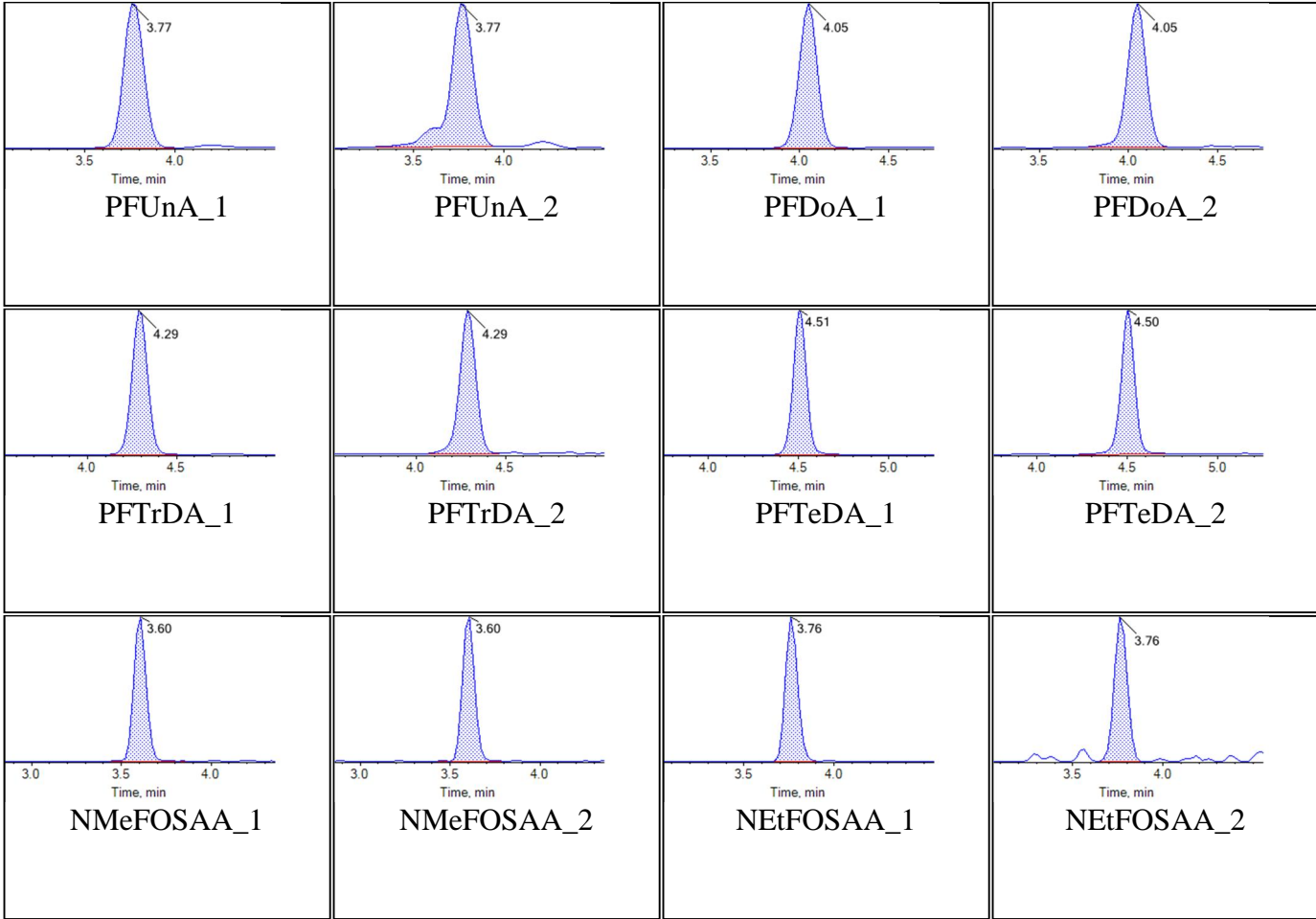


<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	13
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T20:38:12	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

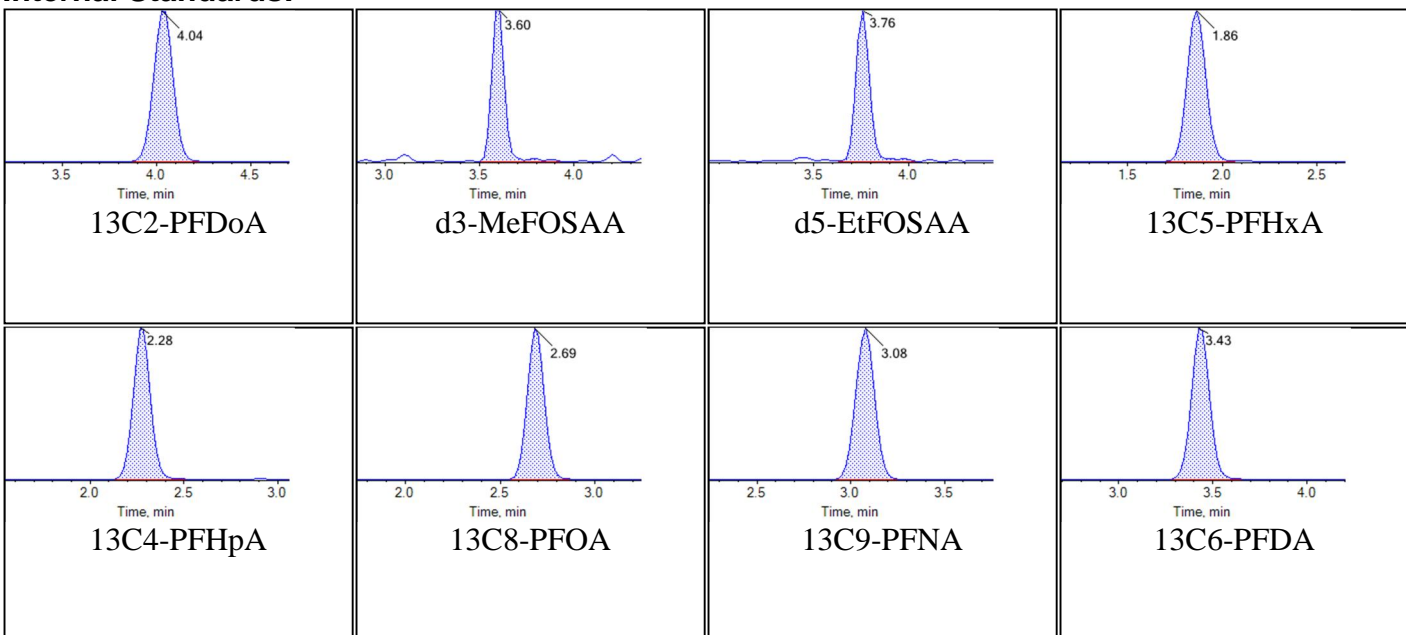
## Chromatograms

### Target Analytes:



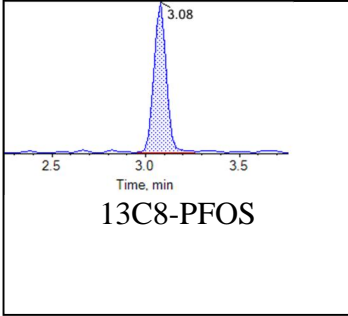
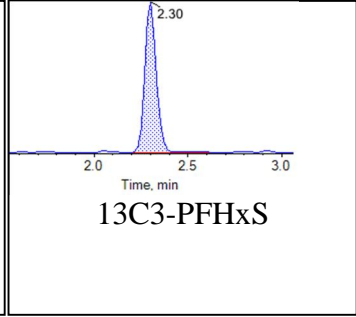
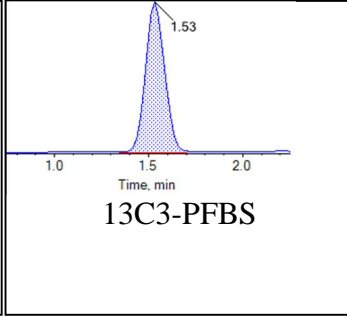
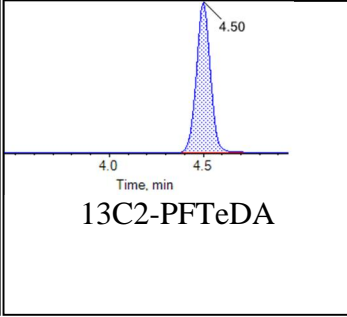
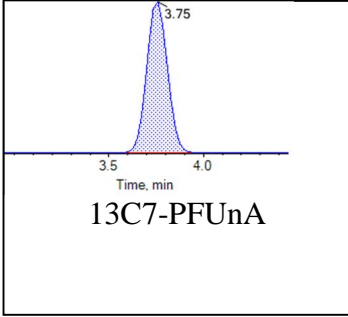


### Internal Standards:



## Chromatogram Report

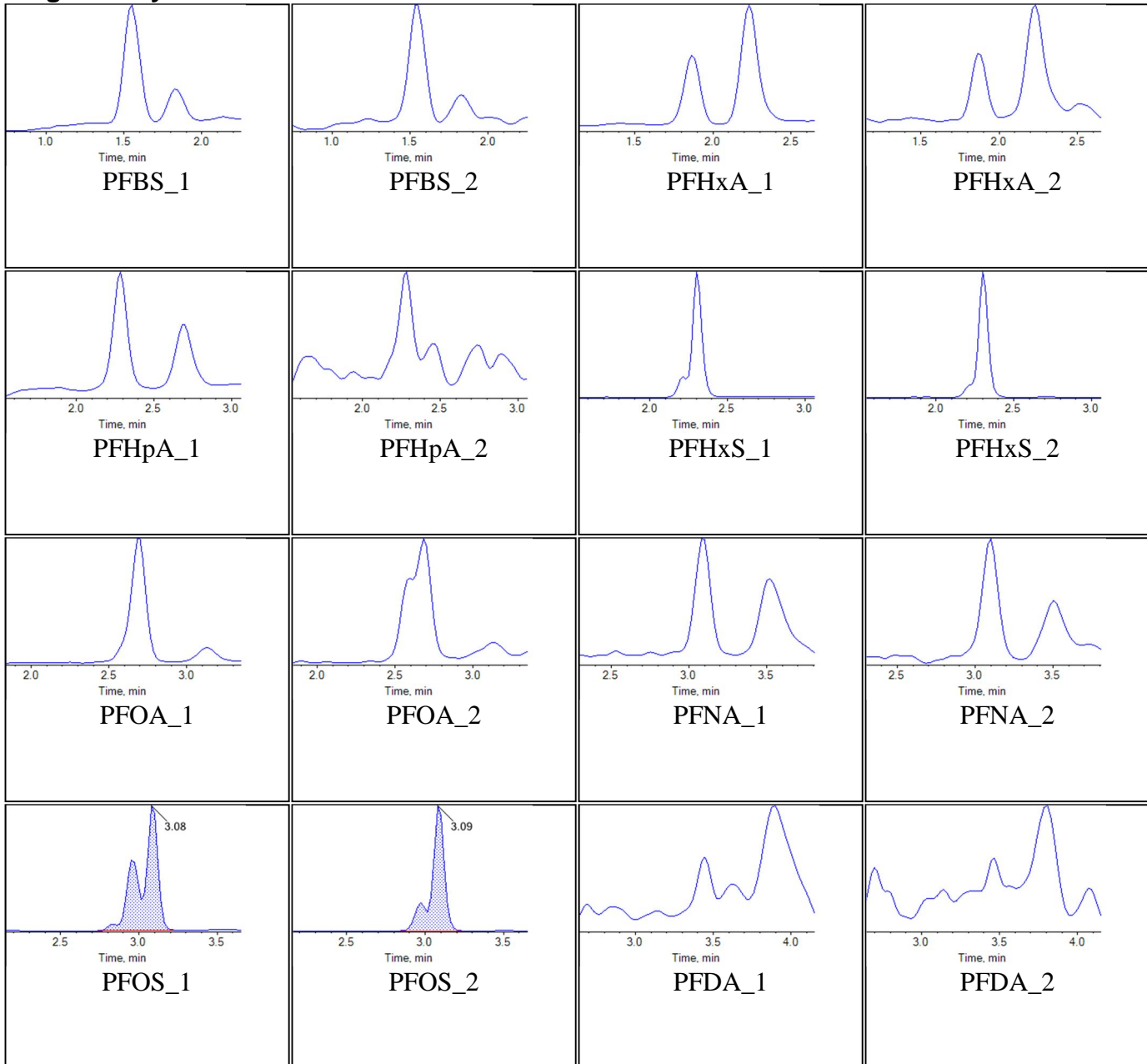
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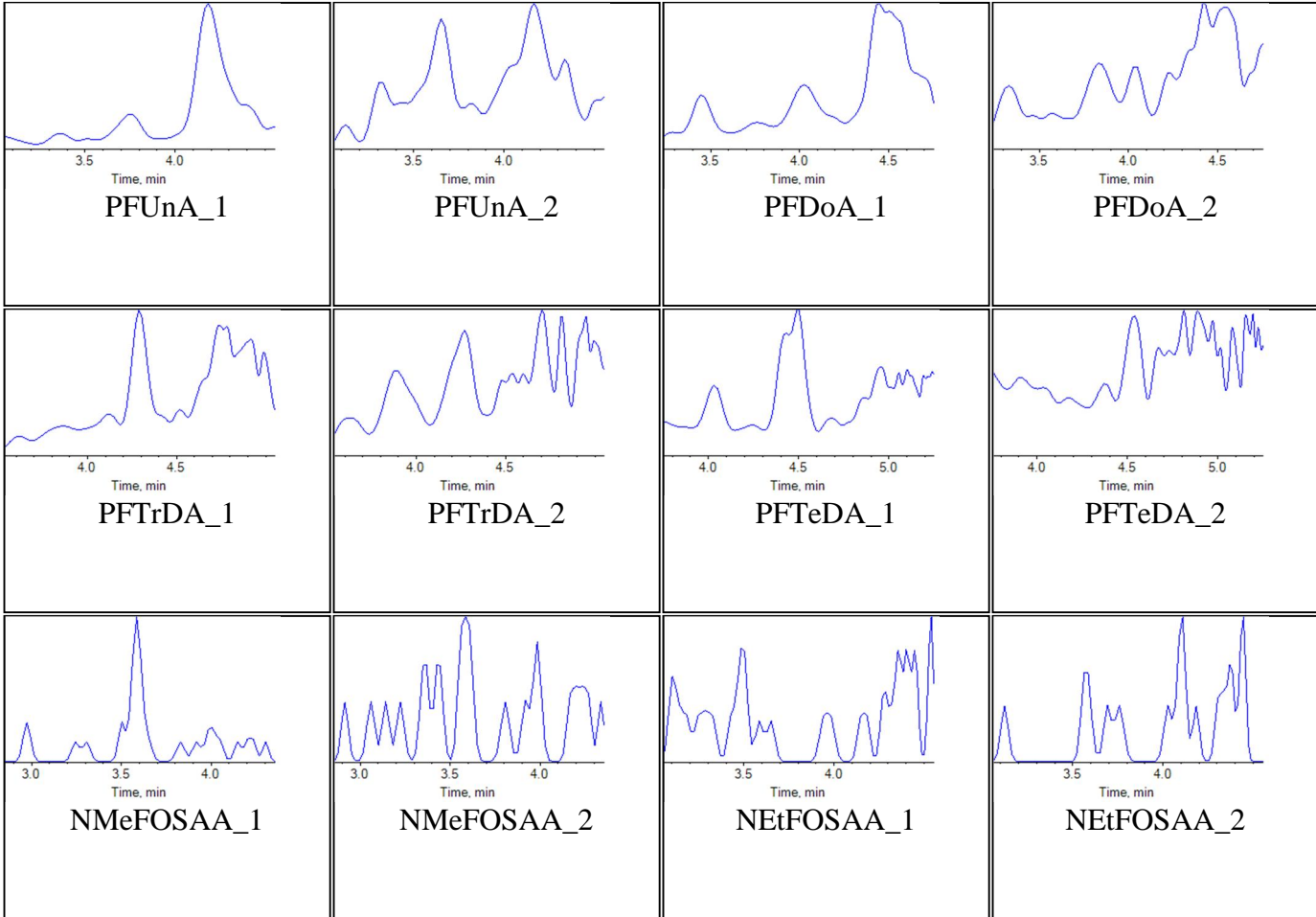


Sample Name	J8462-FS-D(7)	Injection Vial	14
Sample ID	VC-CS12-SB02-0102	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T20:59:57	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

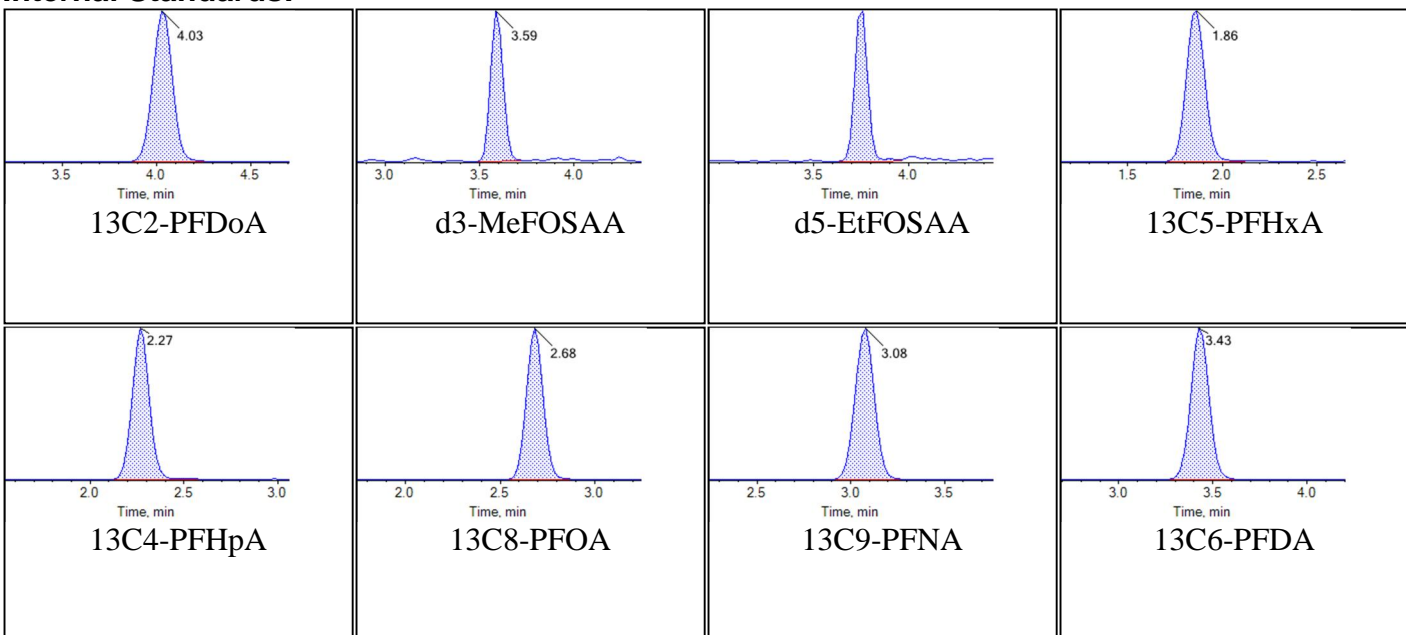
## Chromatograms

### Target Analytes:





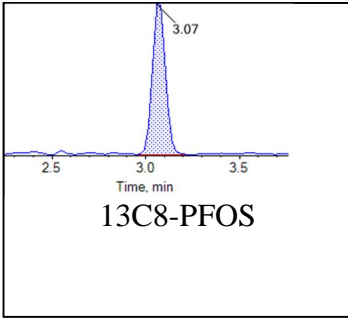
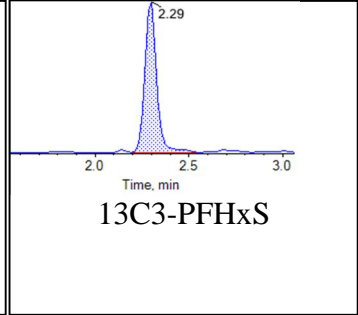
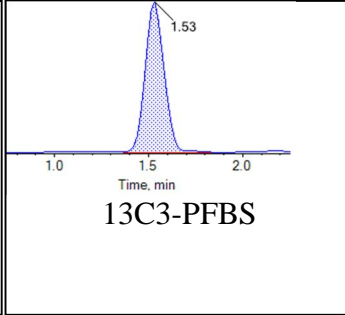
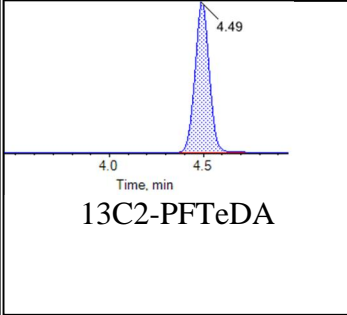
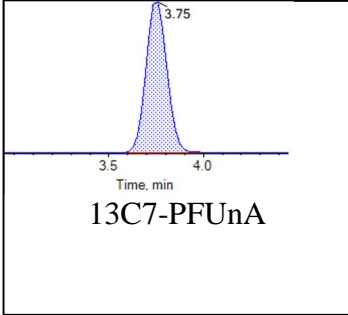
## Internal Standards:





## Chromatogram Report

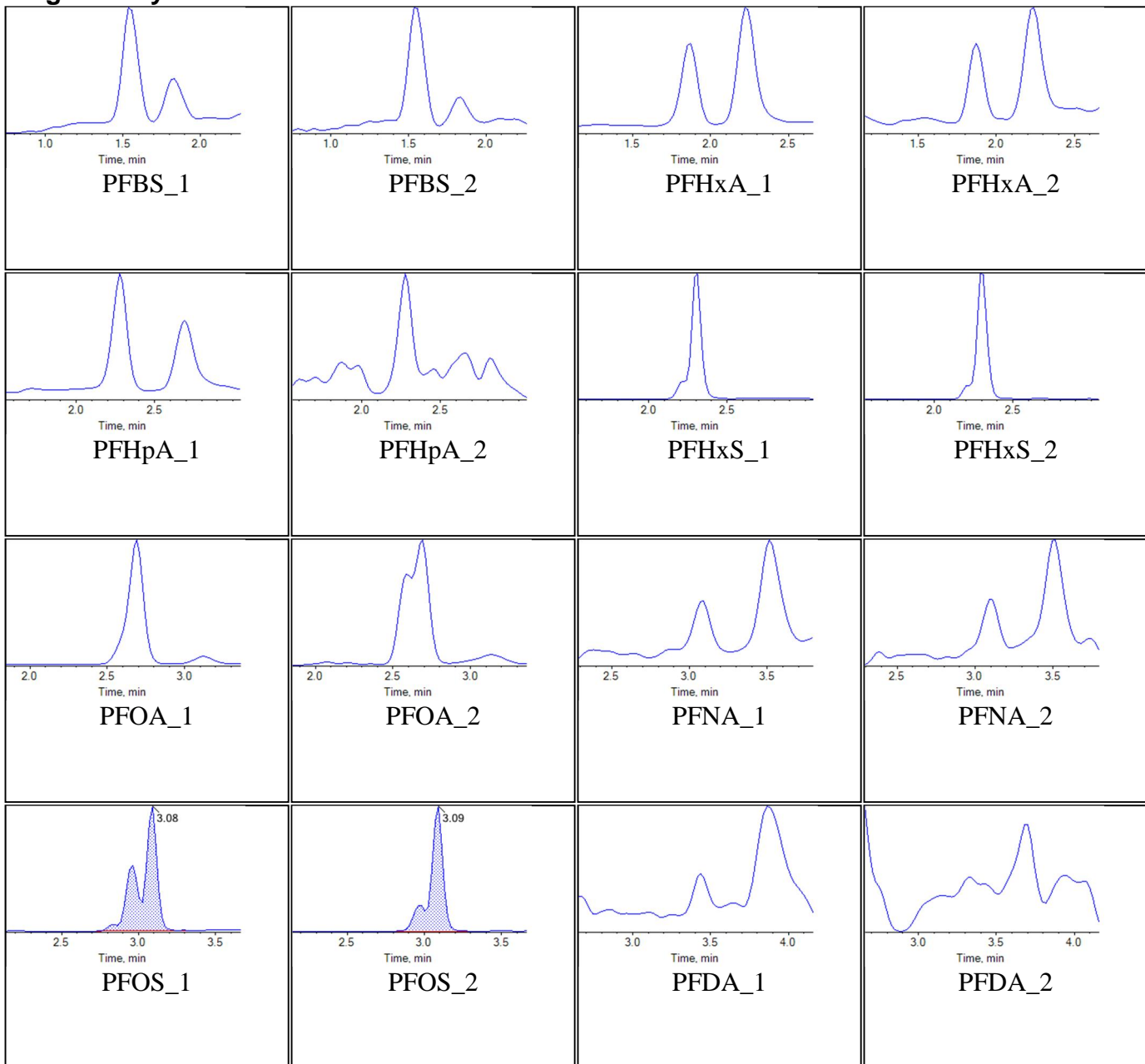
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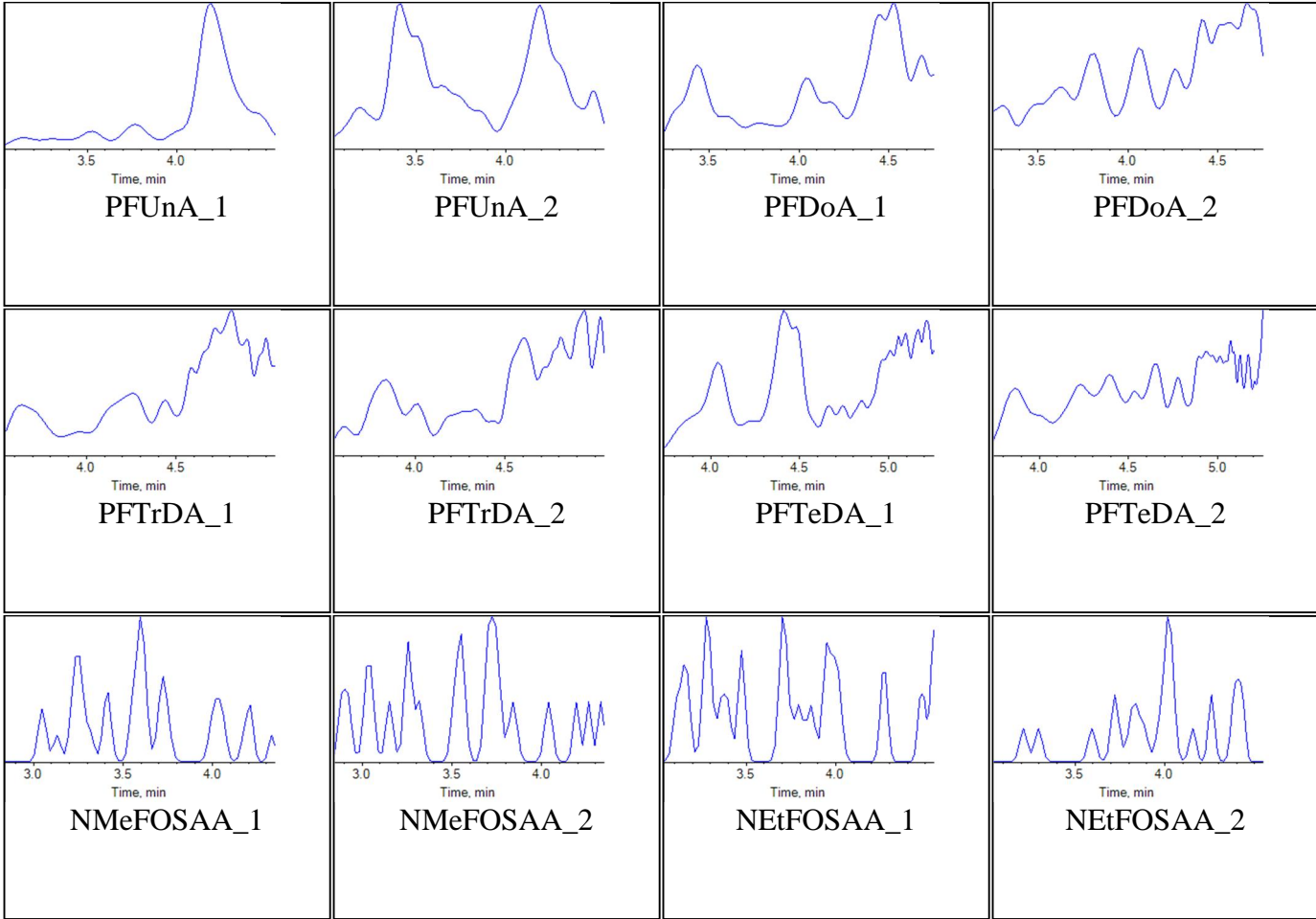


<b>Sample Name</b>	J8477-FS-D(7)	<b>Injection Vial</b>	15
<b>Sample ID</b>	VC-CS10-SS03-000H	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:10:49	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

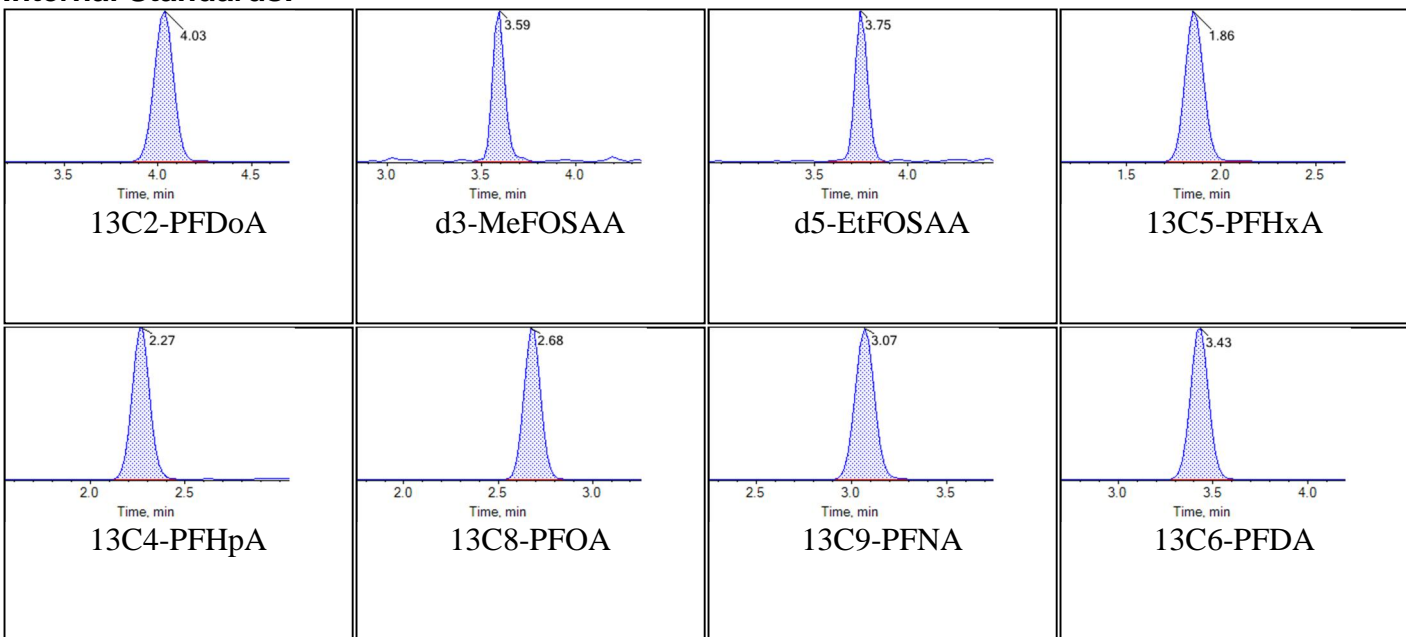
## Chromatograms

### Target Analytes:



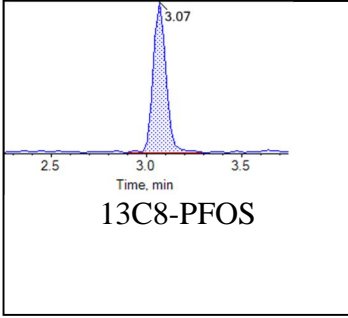
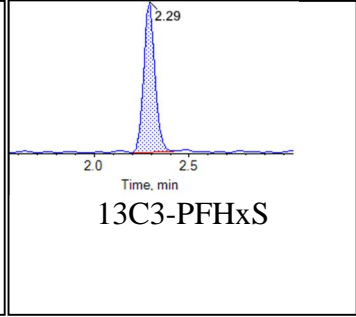
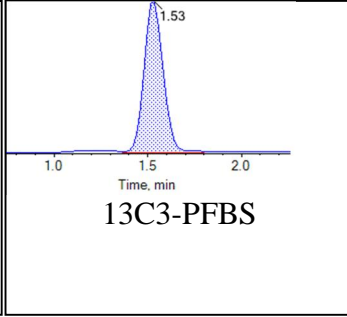
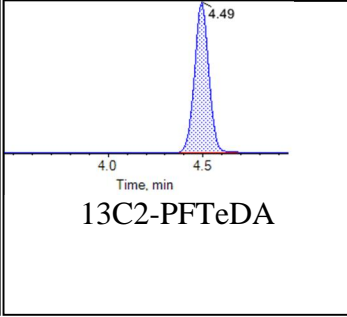
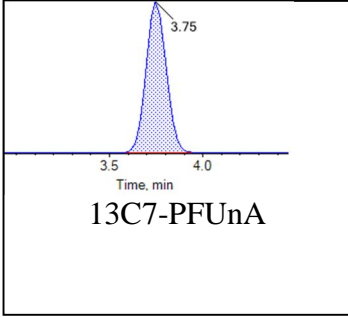


## Internal Standards:



## Chromatogram Report

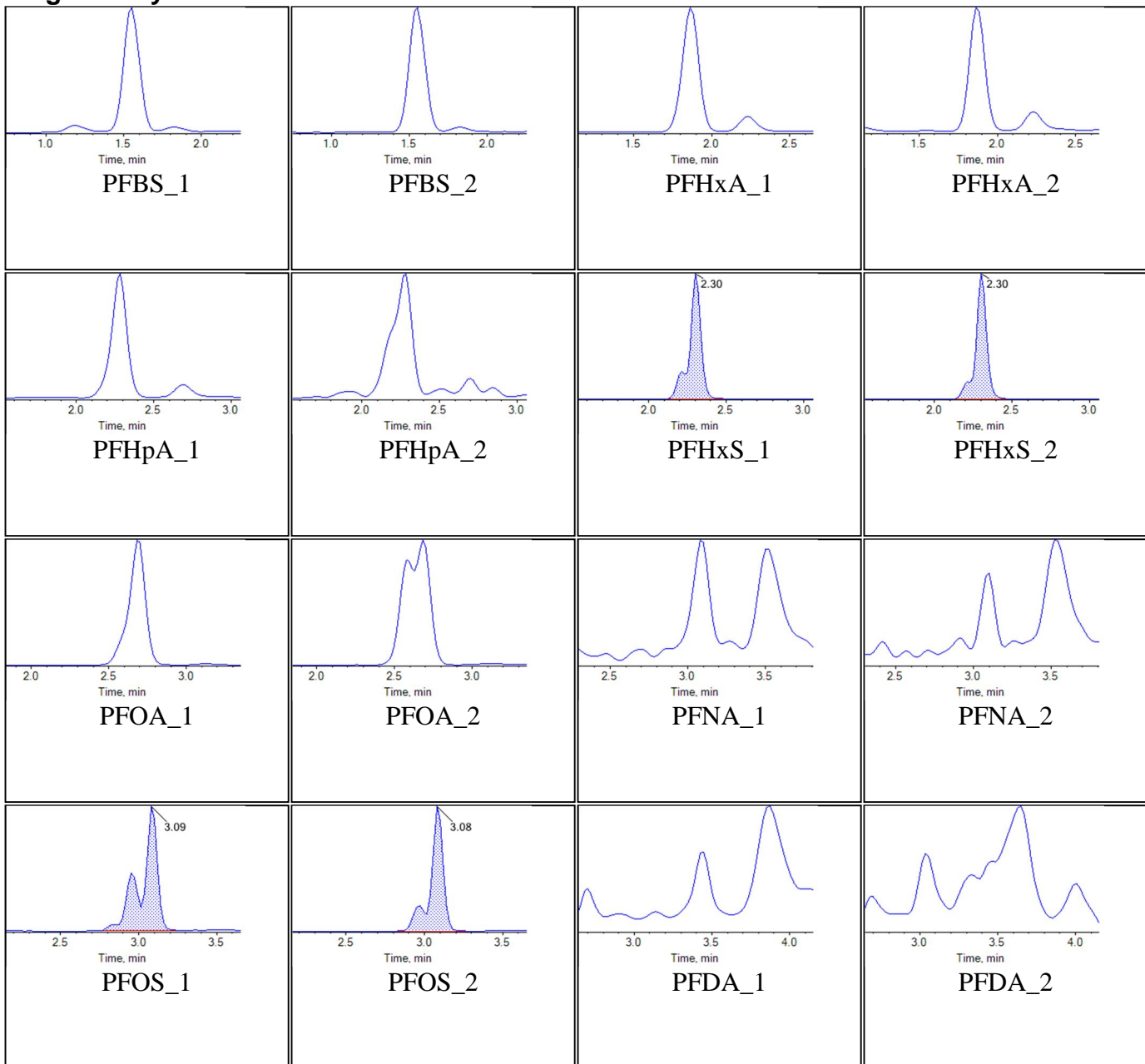
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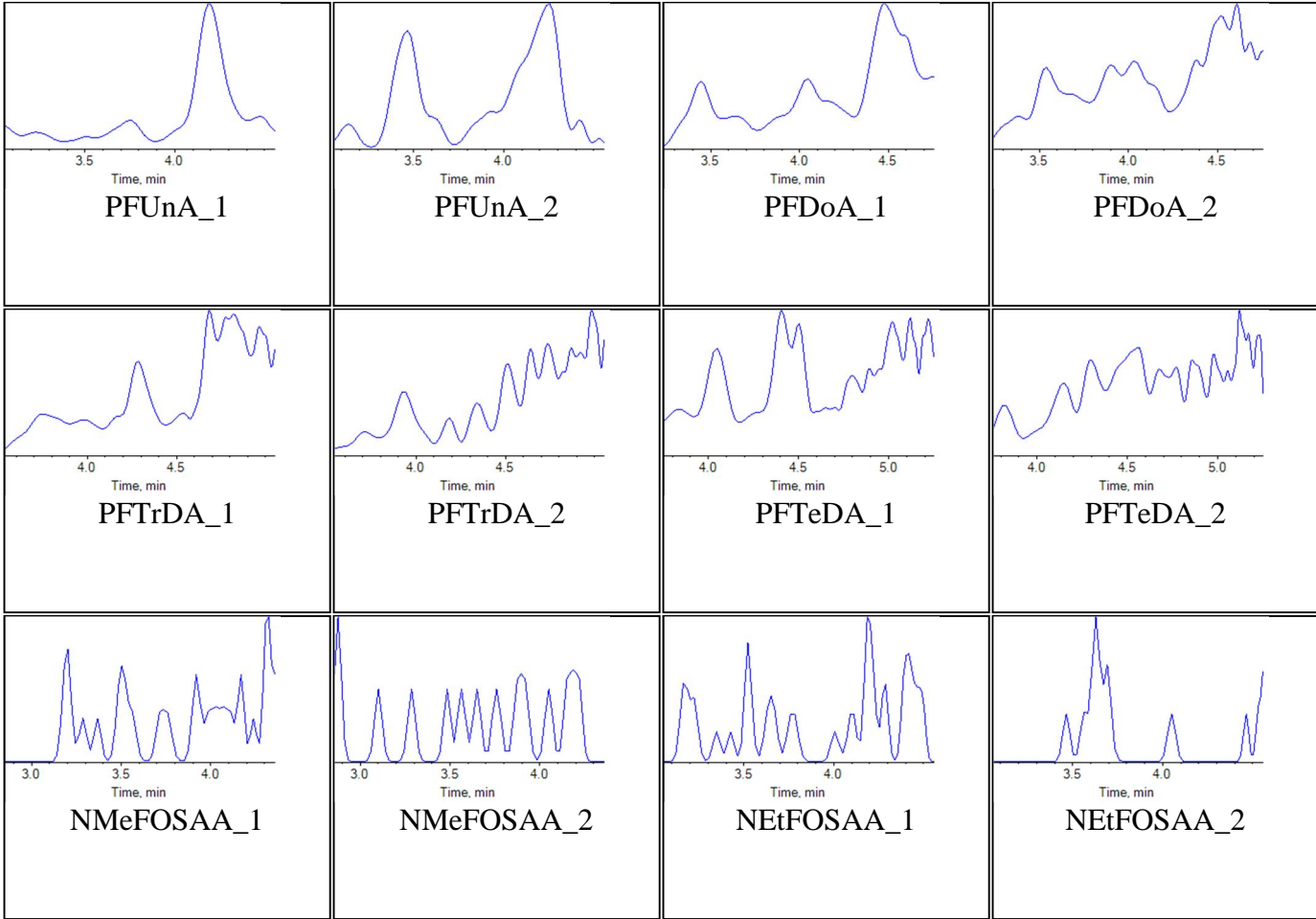


<b>Sample Name</b>	J8478-FS-D(7)	<b>Injection Vial</b>	16
<b>Sample ID</b>	VC-CS10-SB03-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:21:41	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

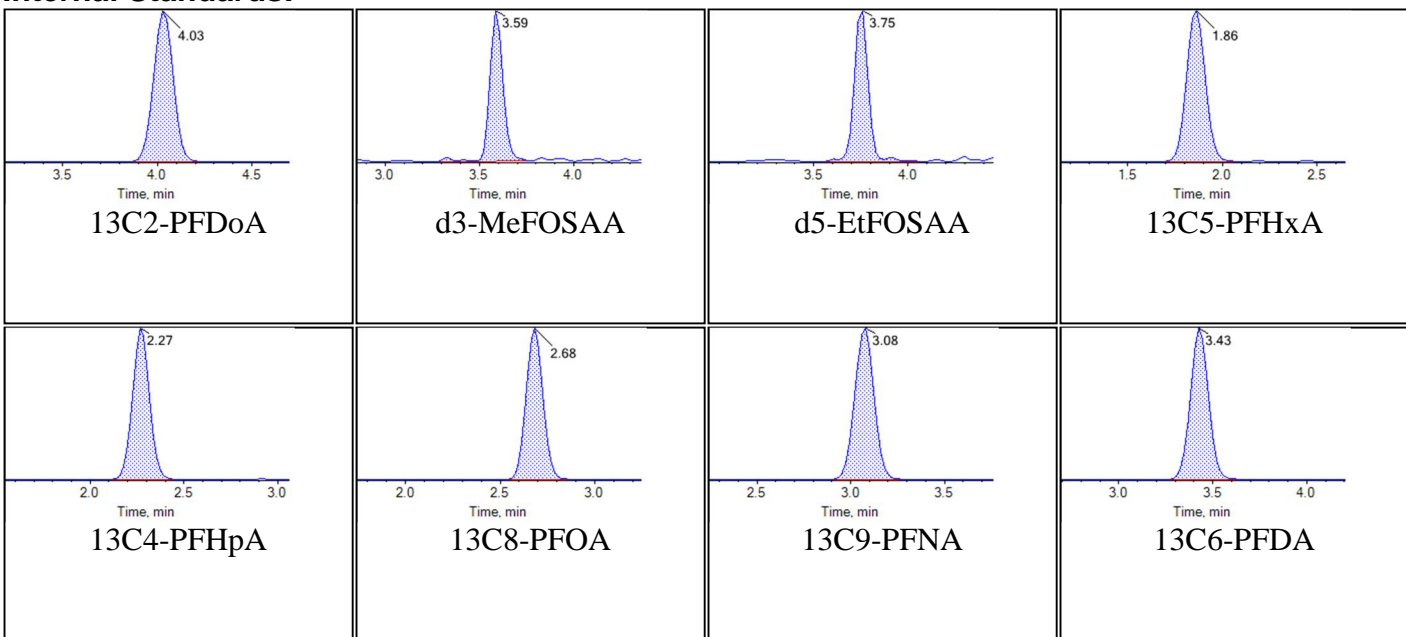
## Chromatograms

### Target Analytes:



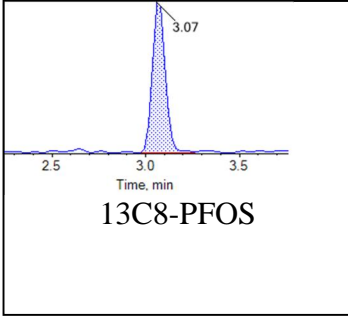
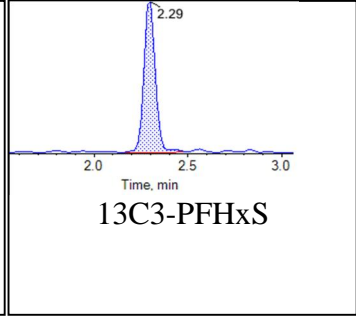
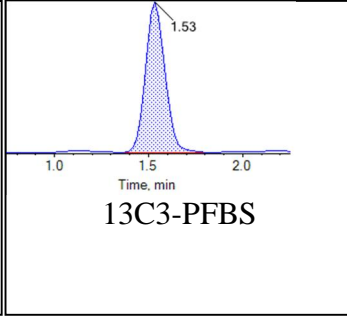
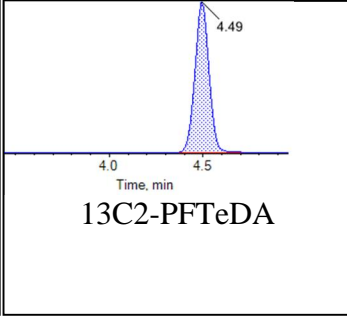
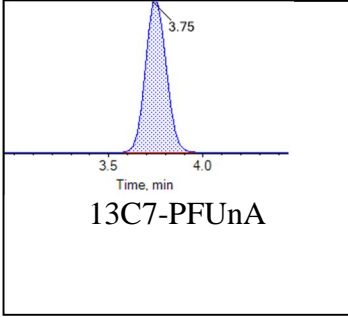


## Internal Standards:



## Chromatogram Report

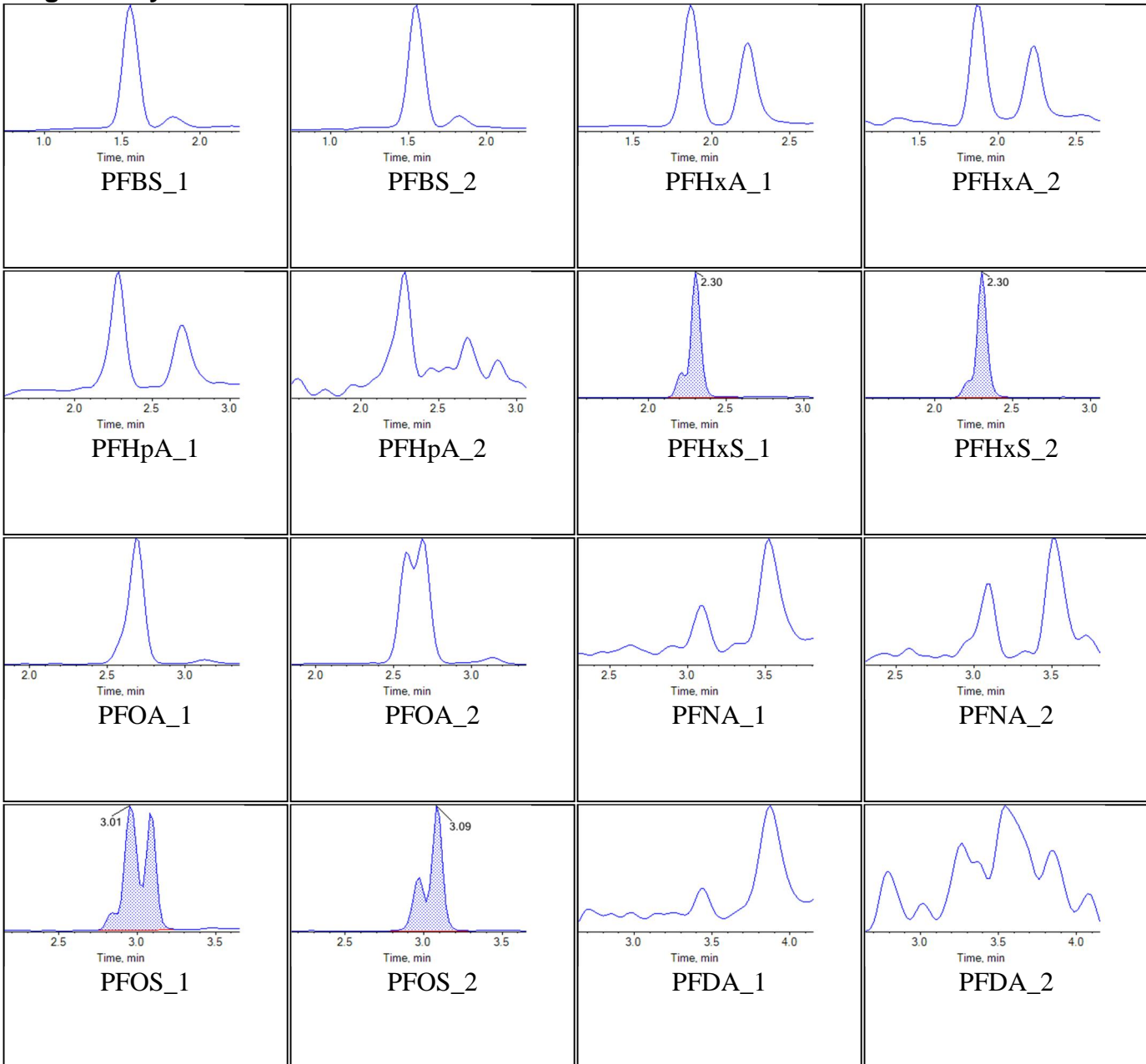
Created with Analyst Reporter  
Printed: 25/10/2018 9:52:07 AM



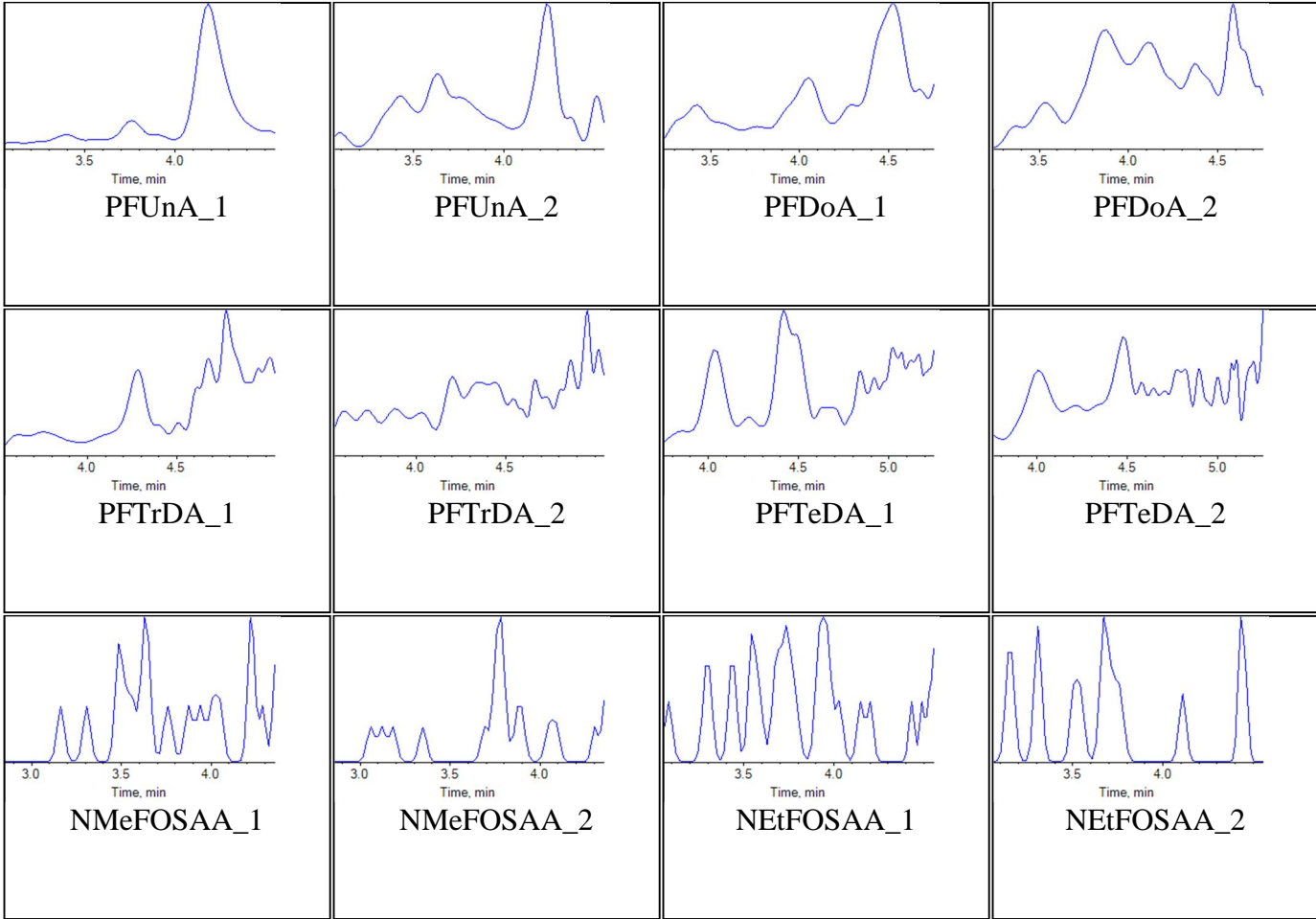
Sample Name	J8479-FS-D(7)	Injection Vial	17
Sample ID	VC-CS10-SB03-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:32:32	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Chromatograms

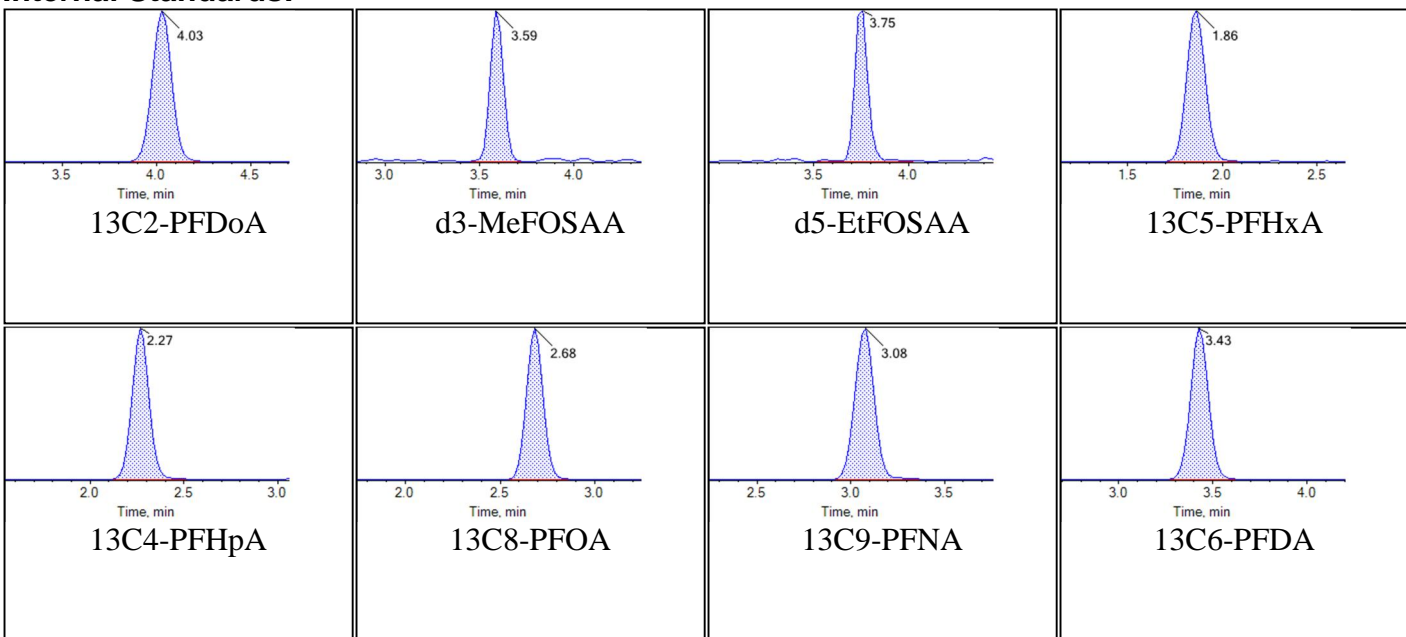
### Target Analytes:





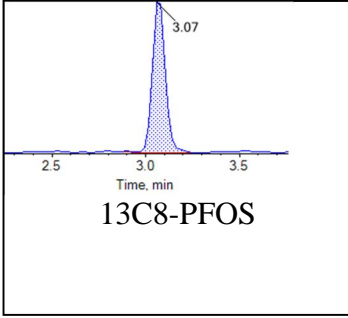
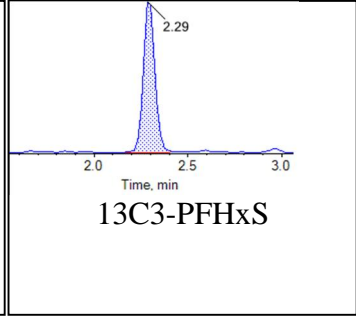
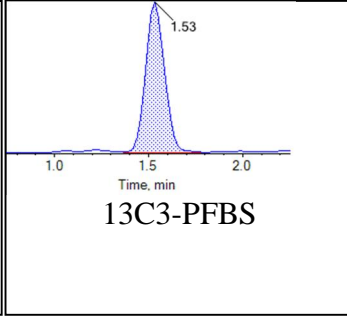
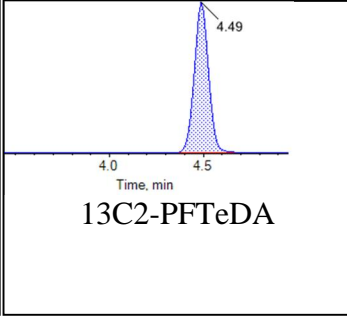
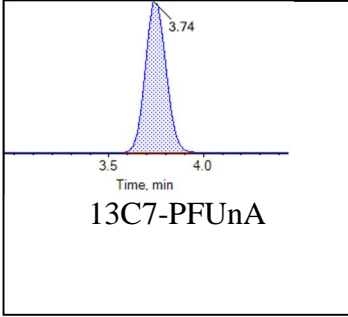


## Internal Standards:



## Chromatogram Report

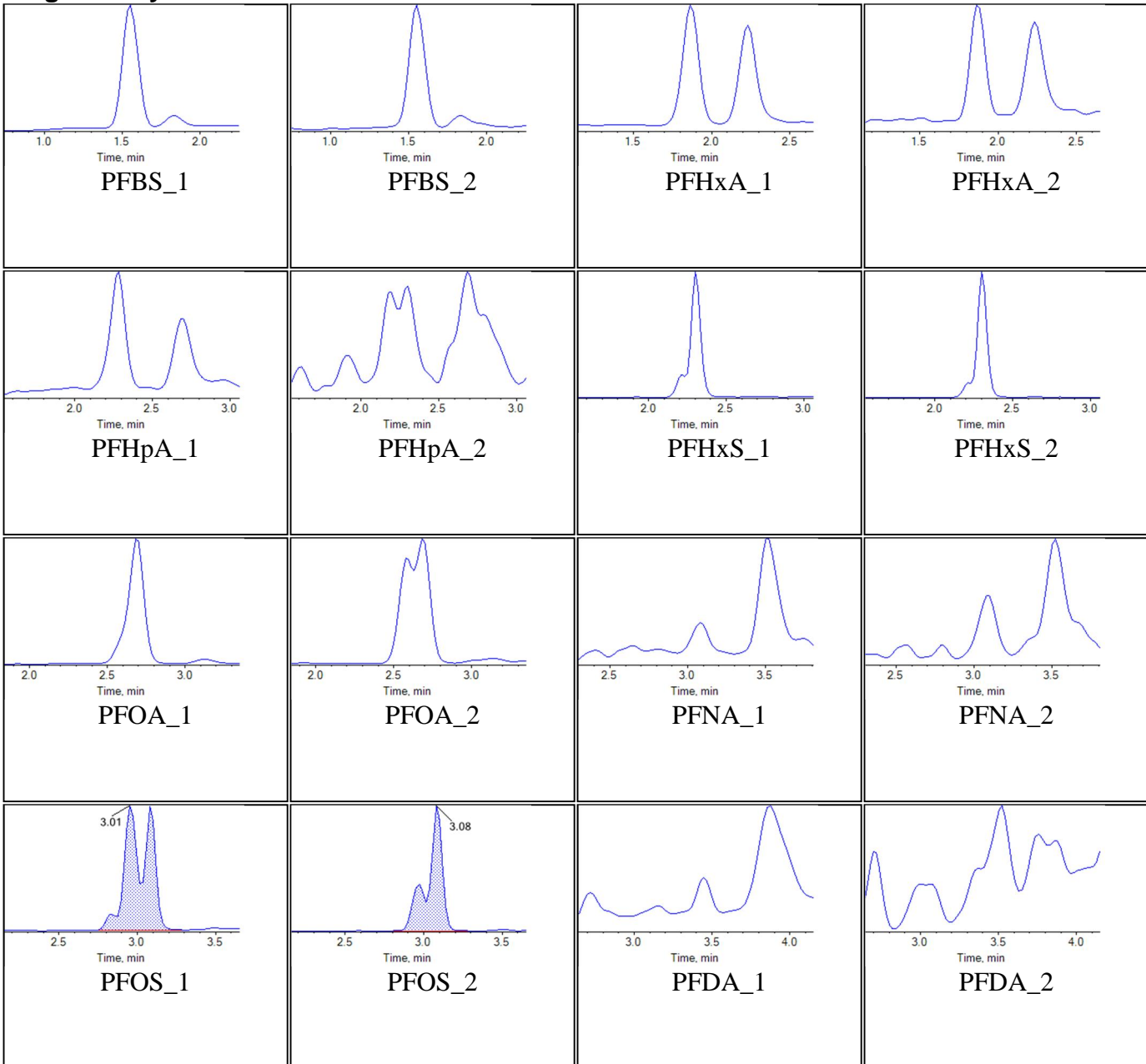
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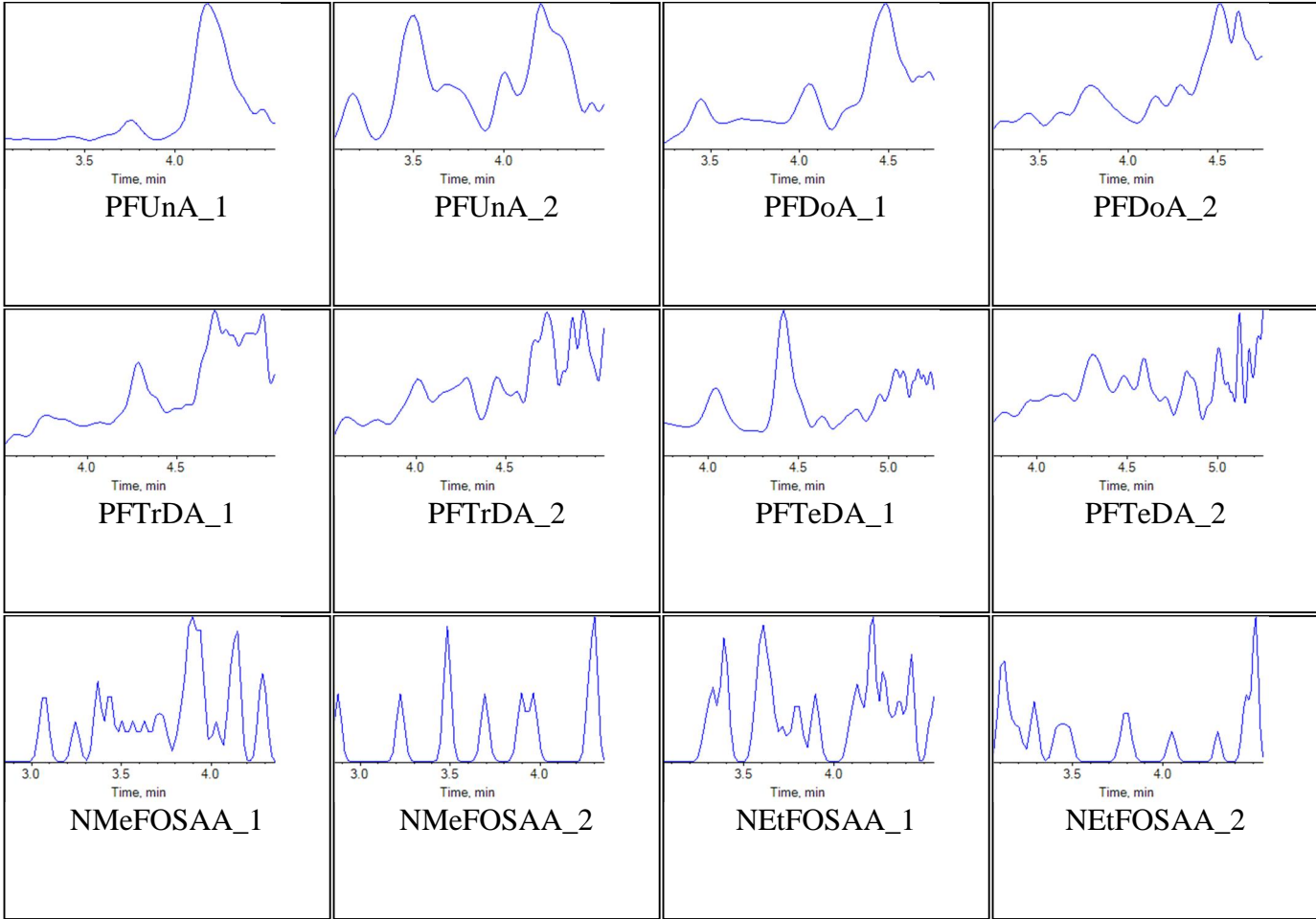


Sample Name	J8480-FS-D(7)	Injection Vial	18
Sample ID	VC-CS10-SS04-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T21:43:23	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

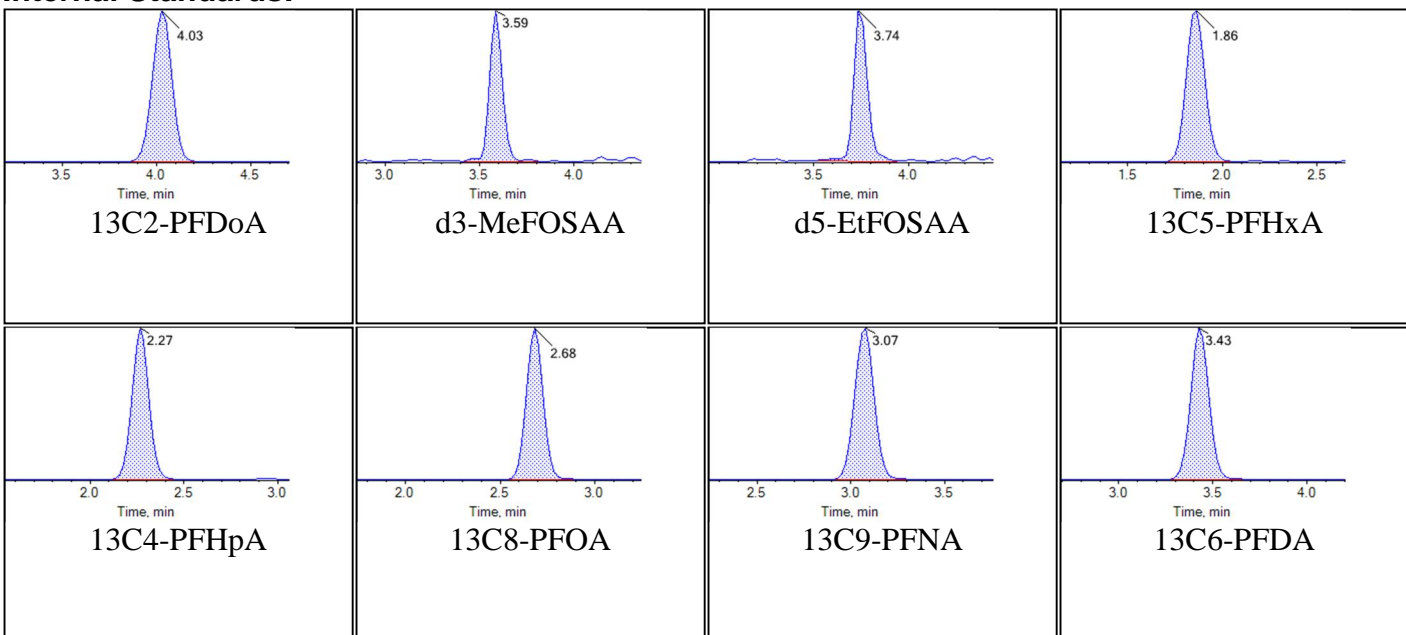
## Chromatograms

### Target Analytes:



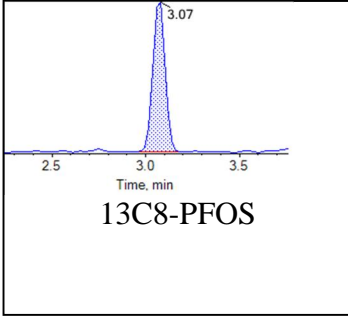
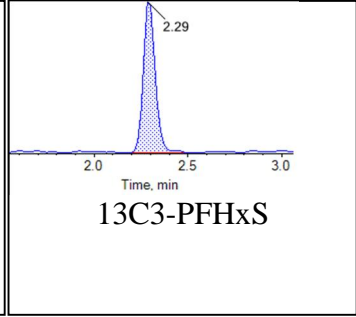
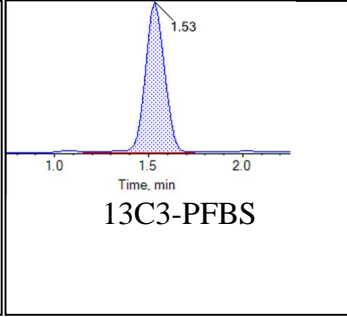
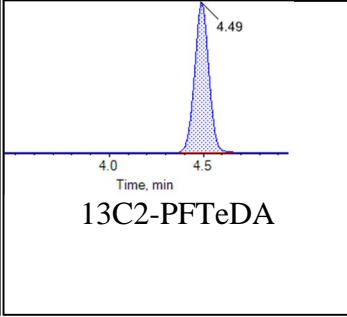
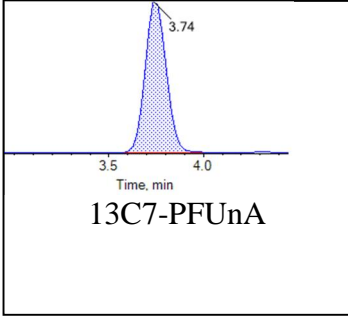


### Internal Standards:



## Chromatogram Report

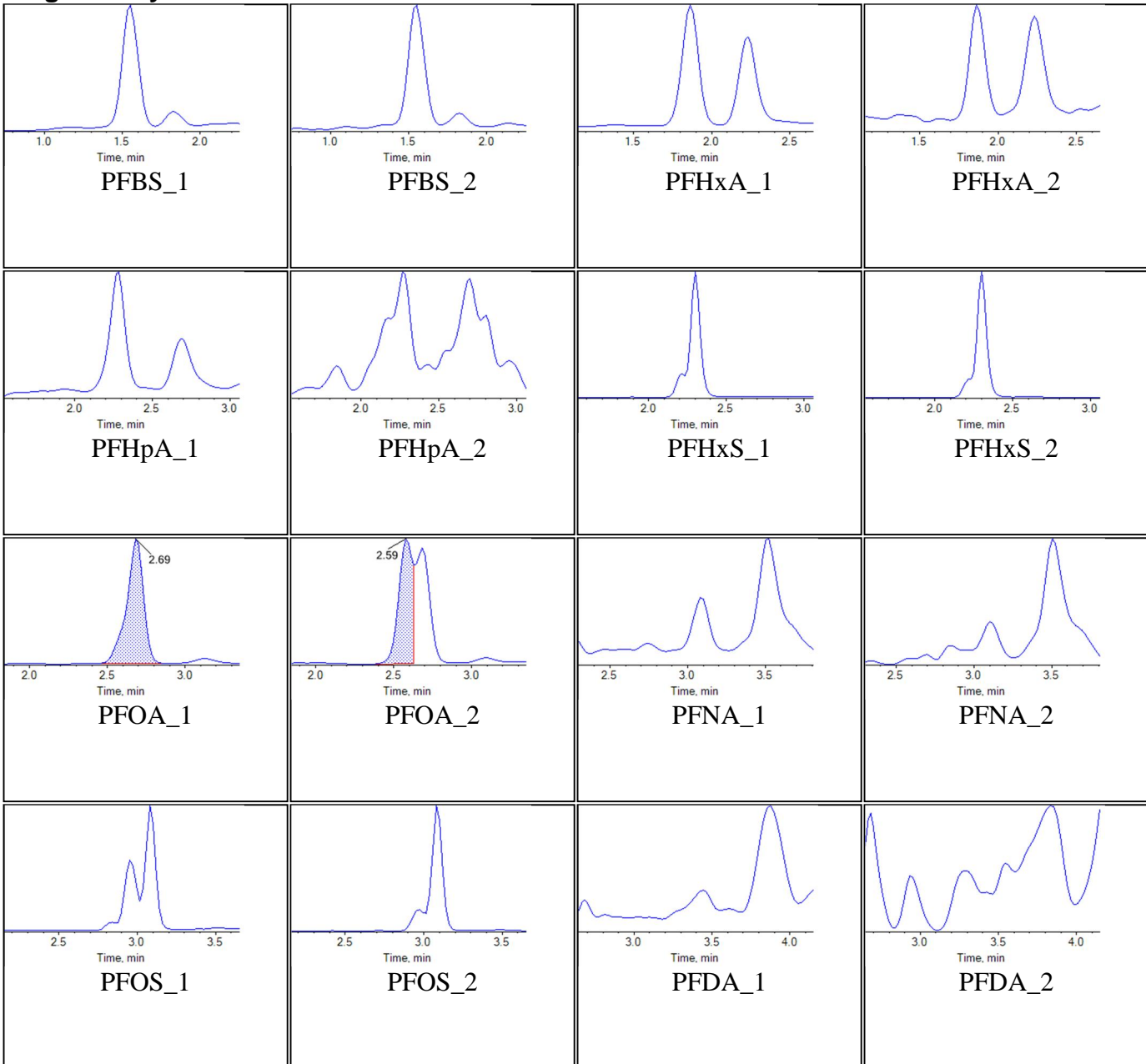
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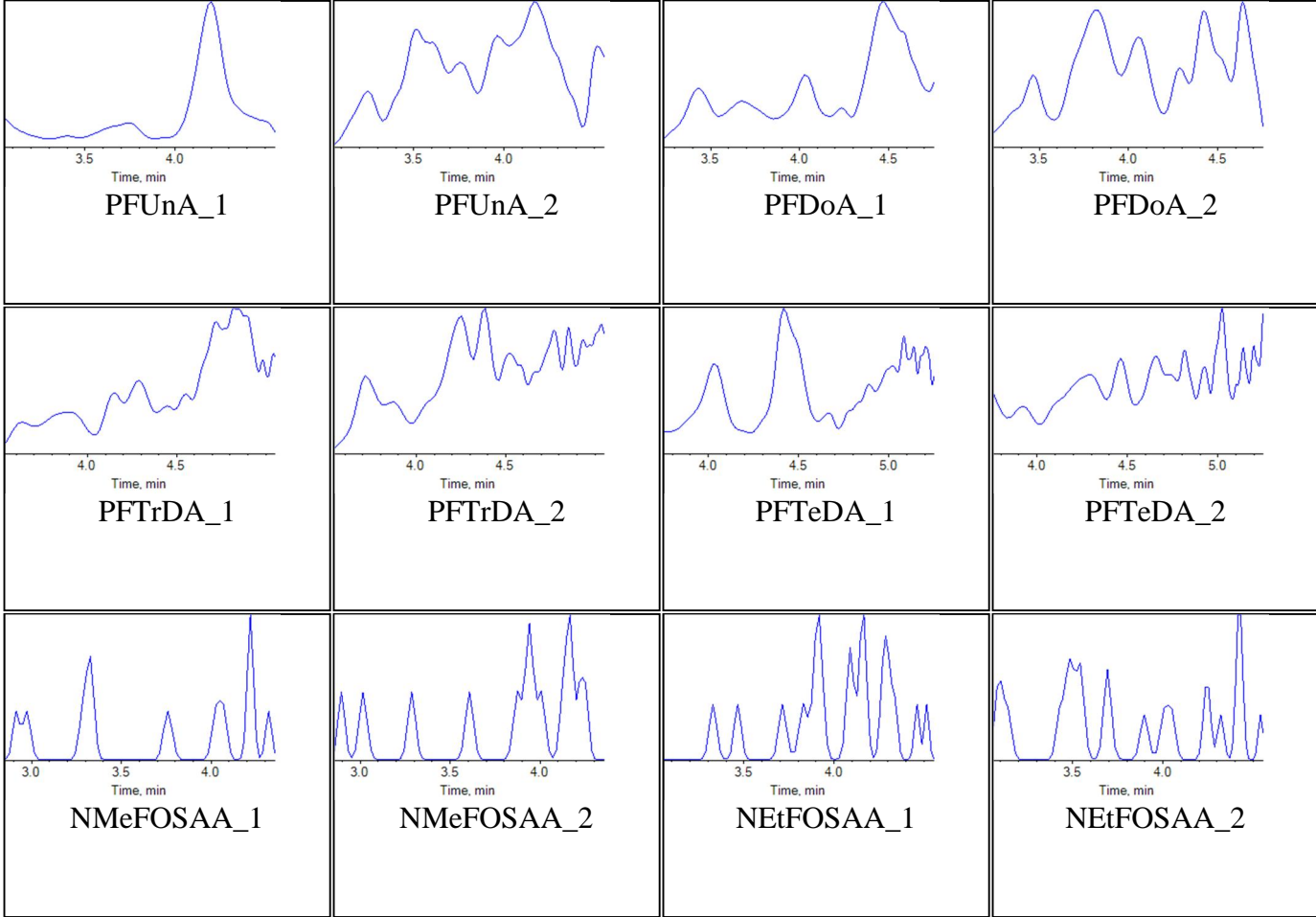


<b>Sample Name</b>	J8481-FS-D(7)	<b>Injection Vial</b>	19
<b>Sample ID</b>	VC-CS10-SB04-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:54:14	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

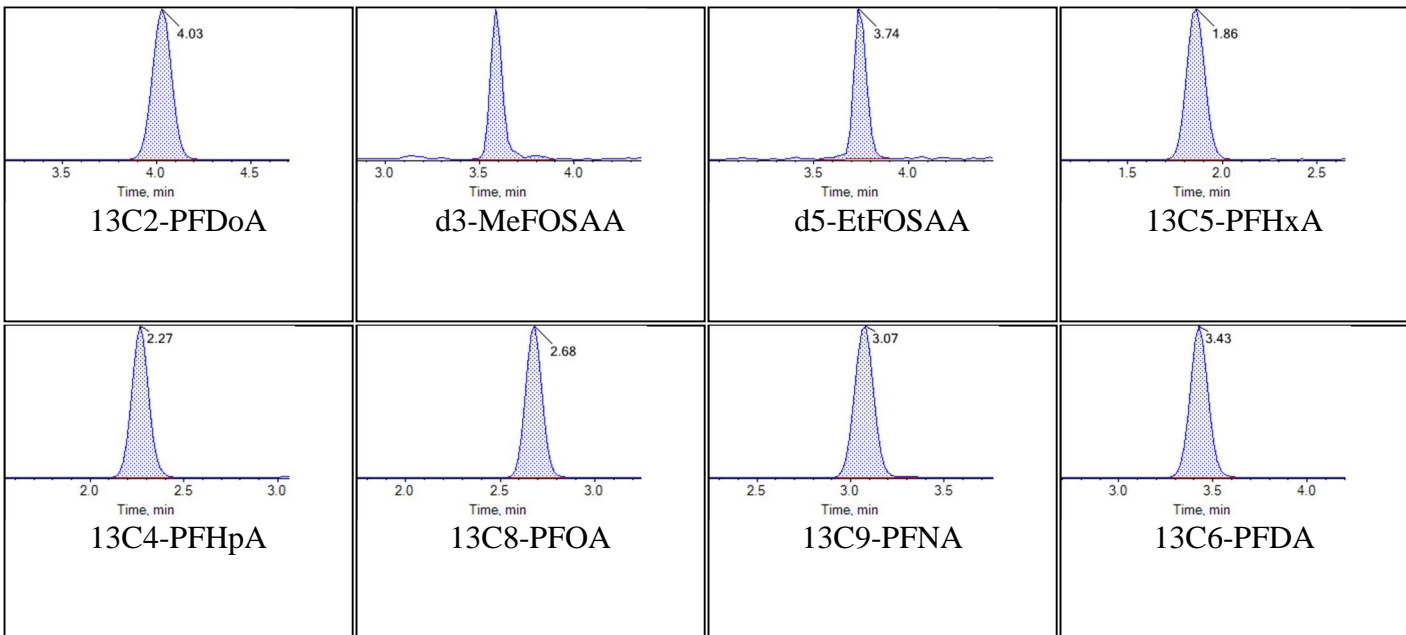
## Chromatograms

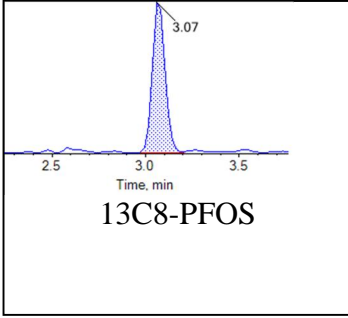
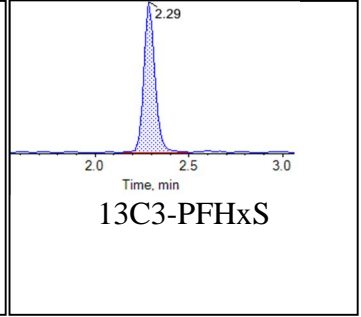
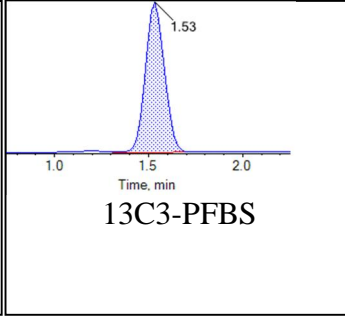
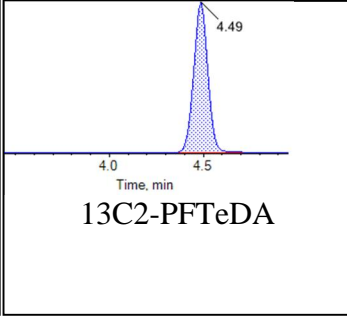
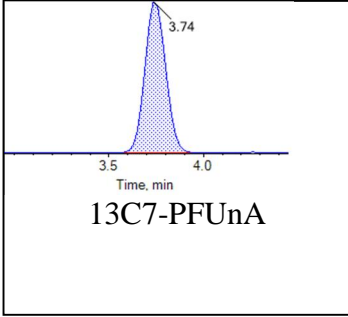
### Target Analytes:





### Internal Standards:



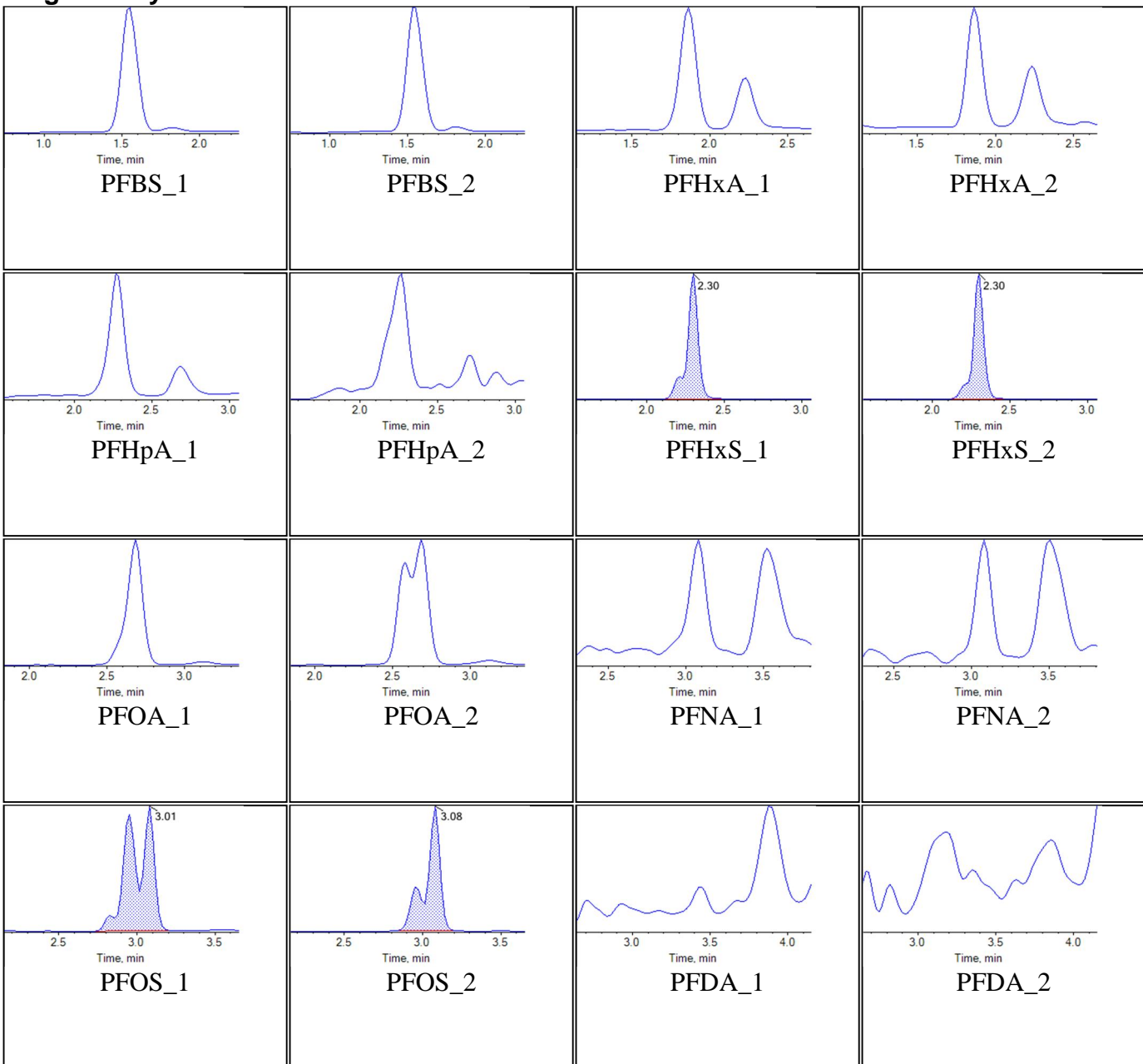


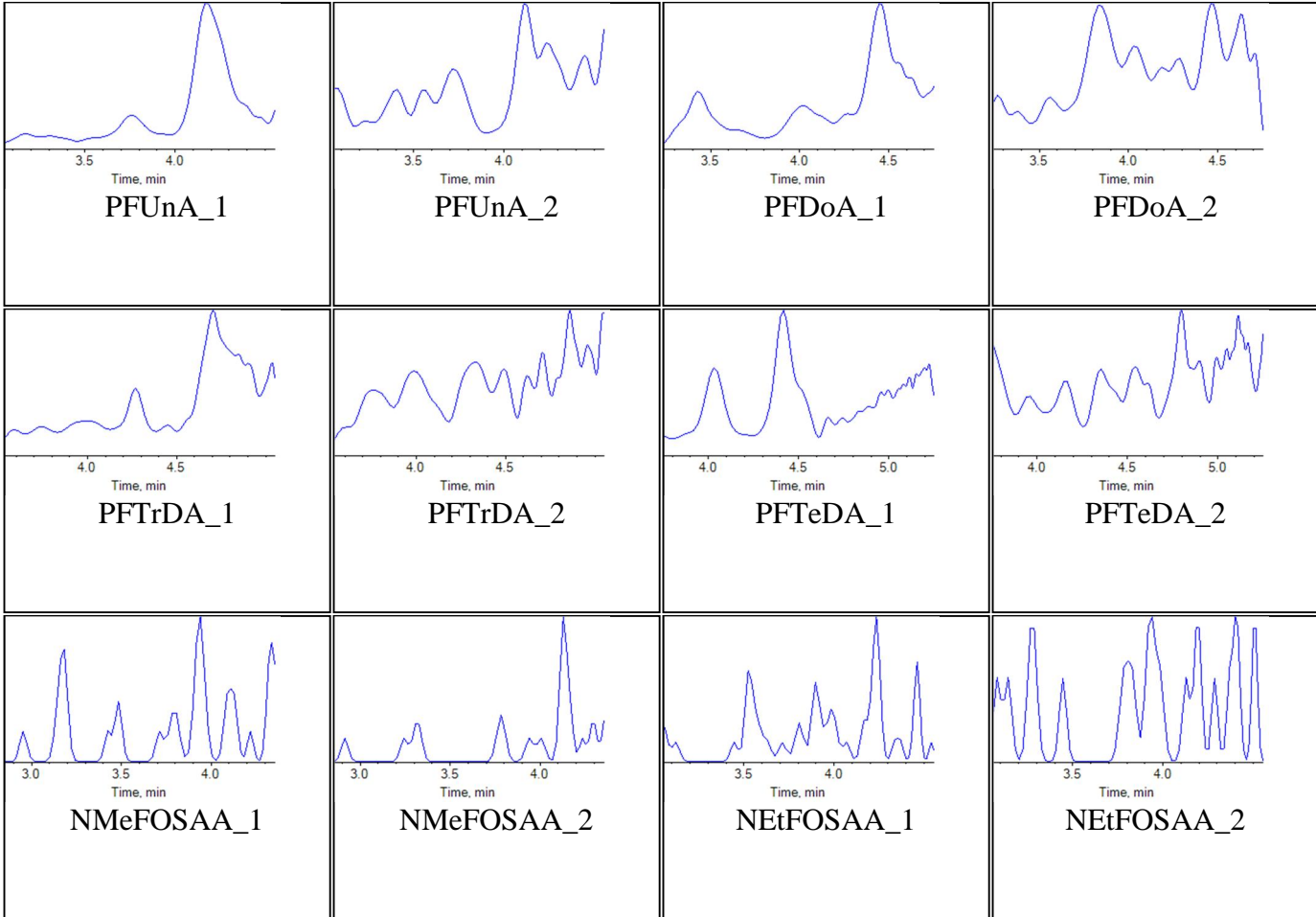


Sample Name	J8461-FS-D(7)	Injection Vial	21
Sample ID	VC-CS12-SS02-000H	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:15:59	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

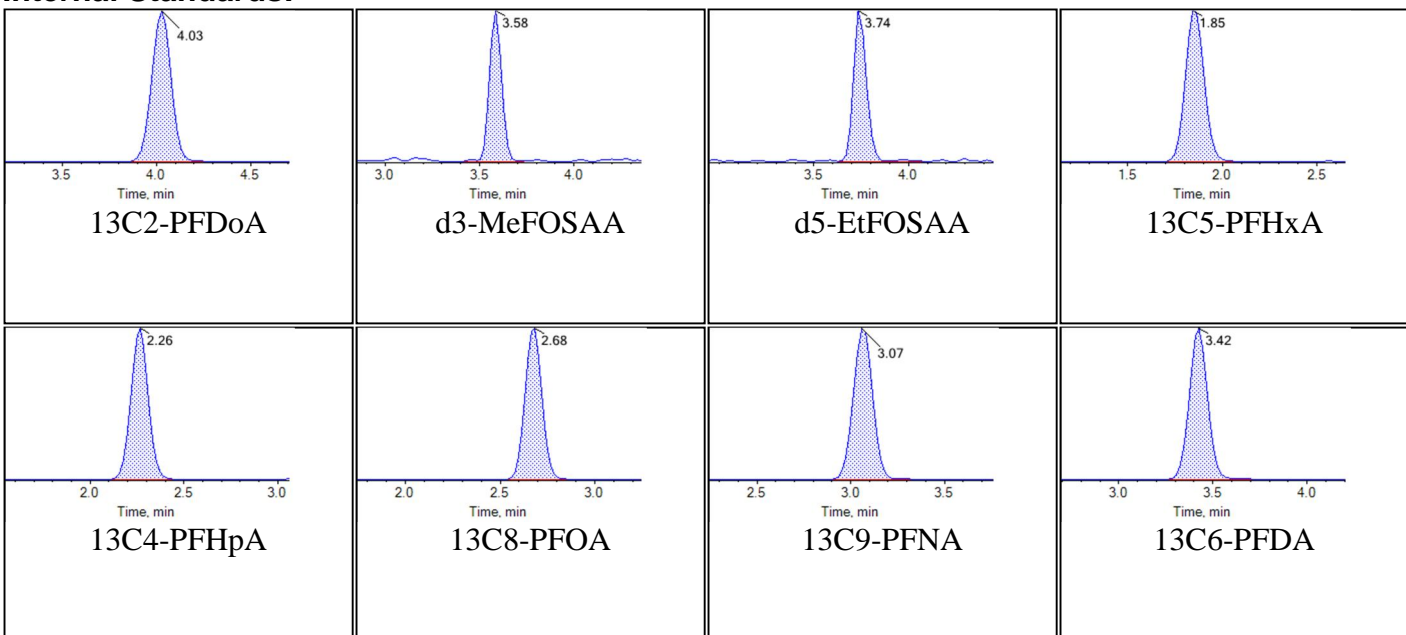
## Chromatograms

### Target Analytes:



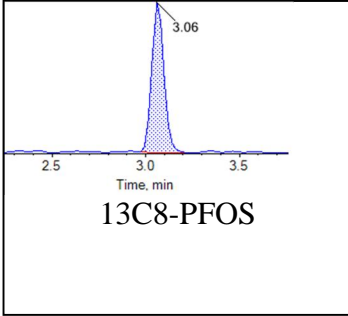
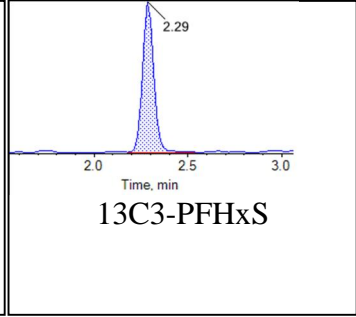
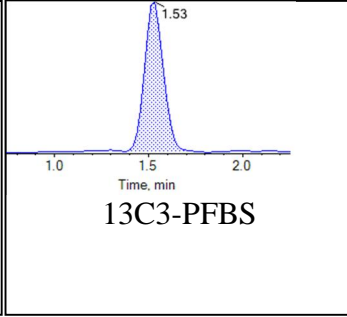
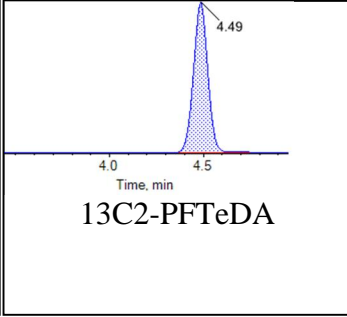
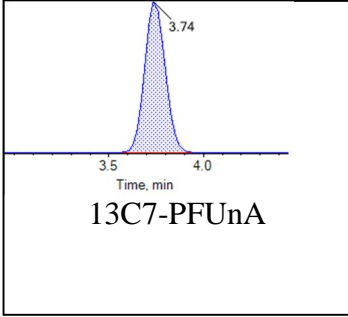


### Internal Standards:



## Chromatogram Report

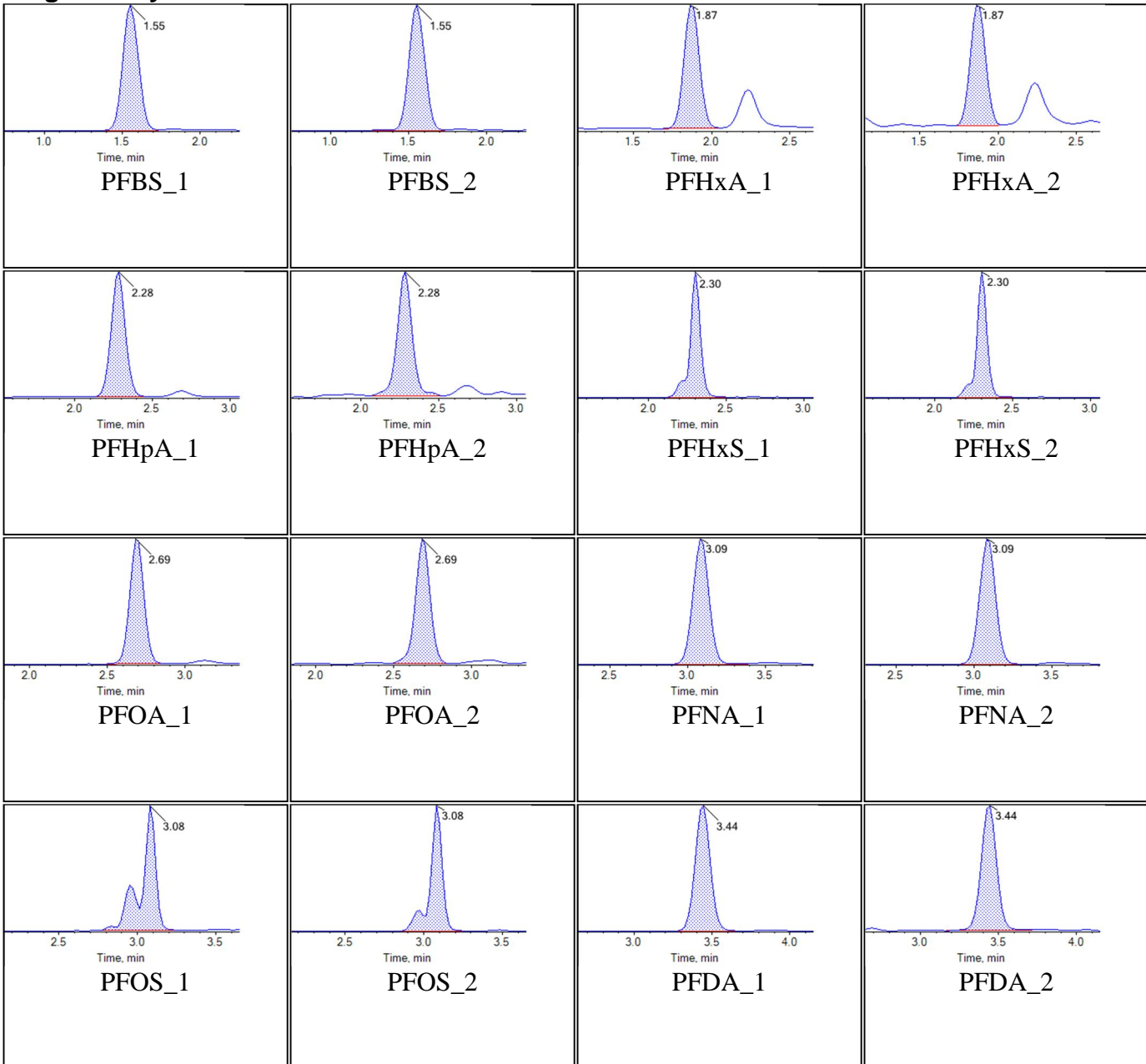
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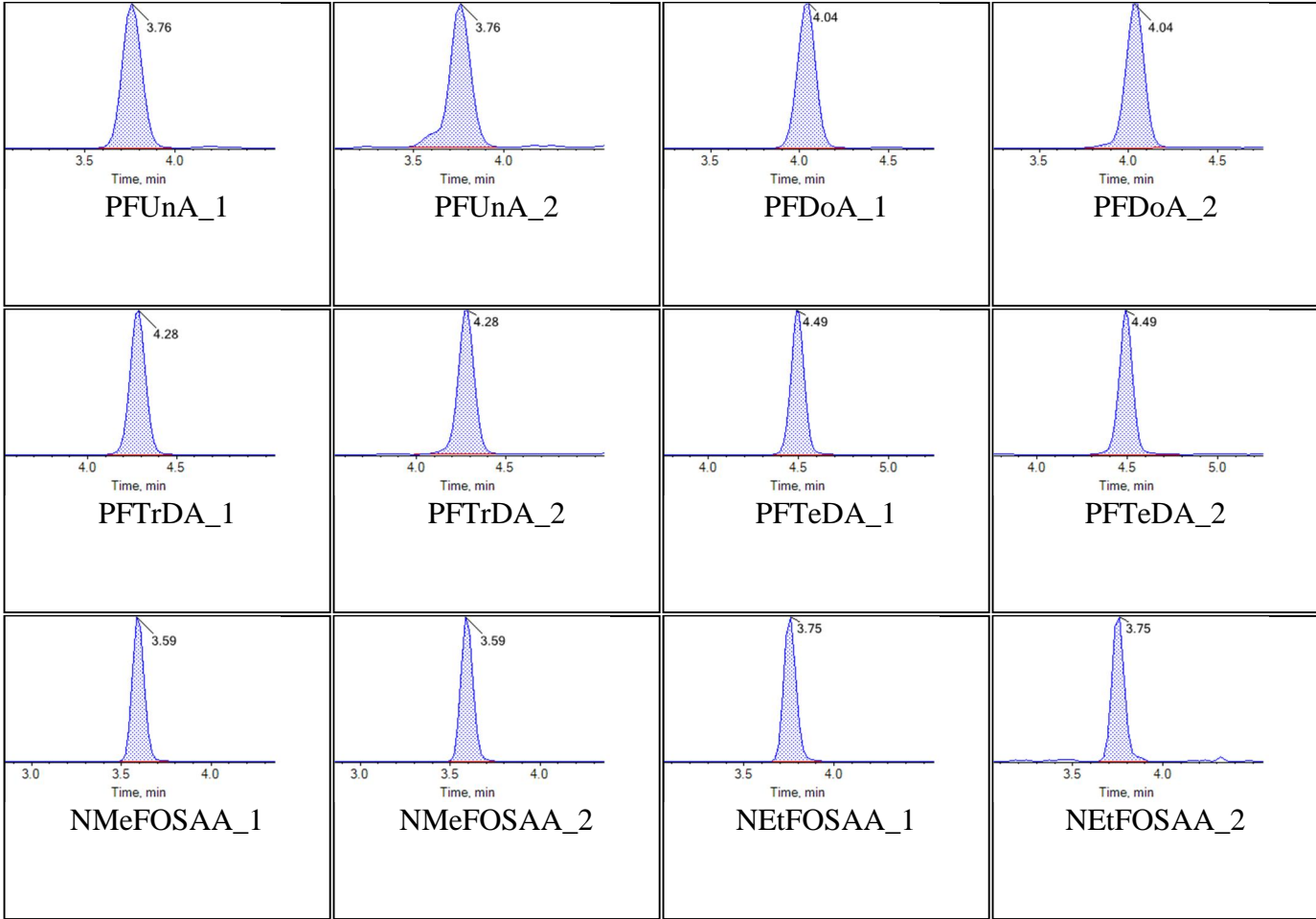


<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	22
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T22:26:52	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

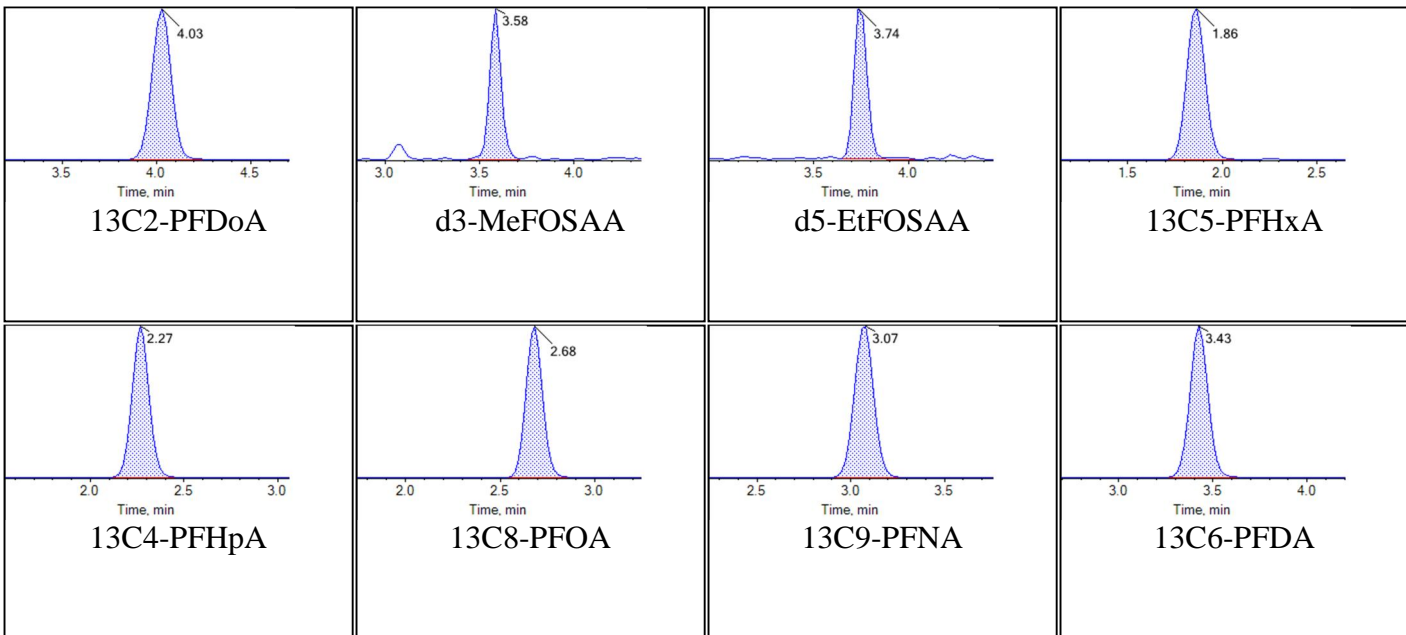
## Chromatograms

### Target Analytes:



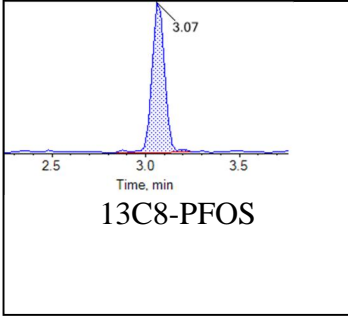
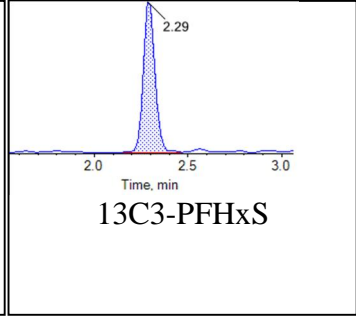
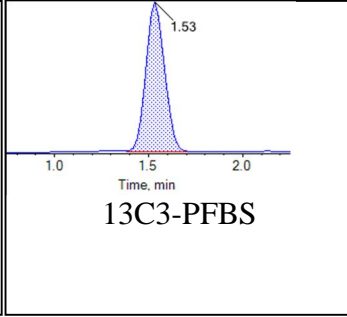
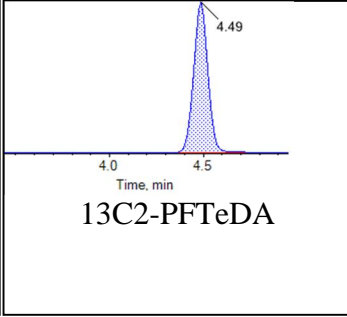
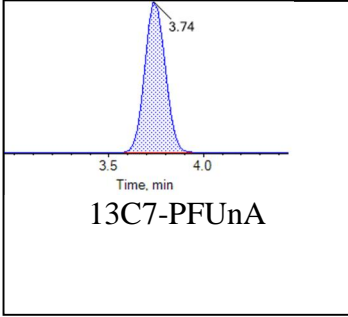


### Internal Standards:



## Chromatogram Report

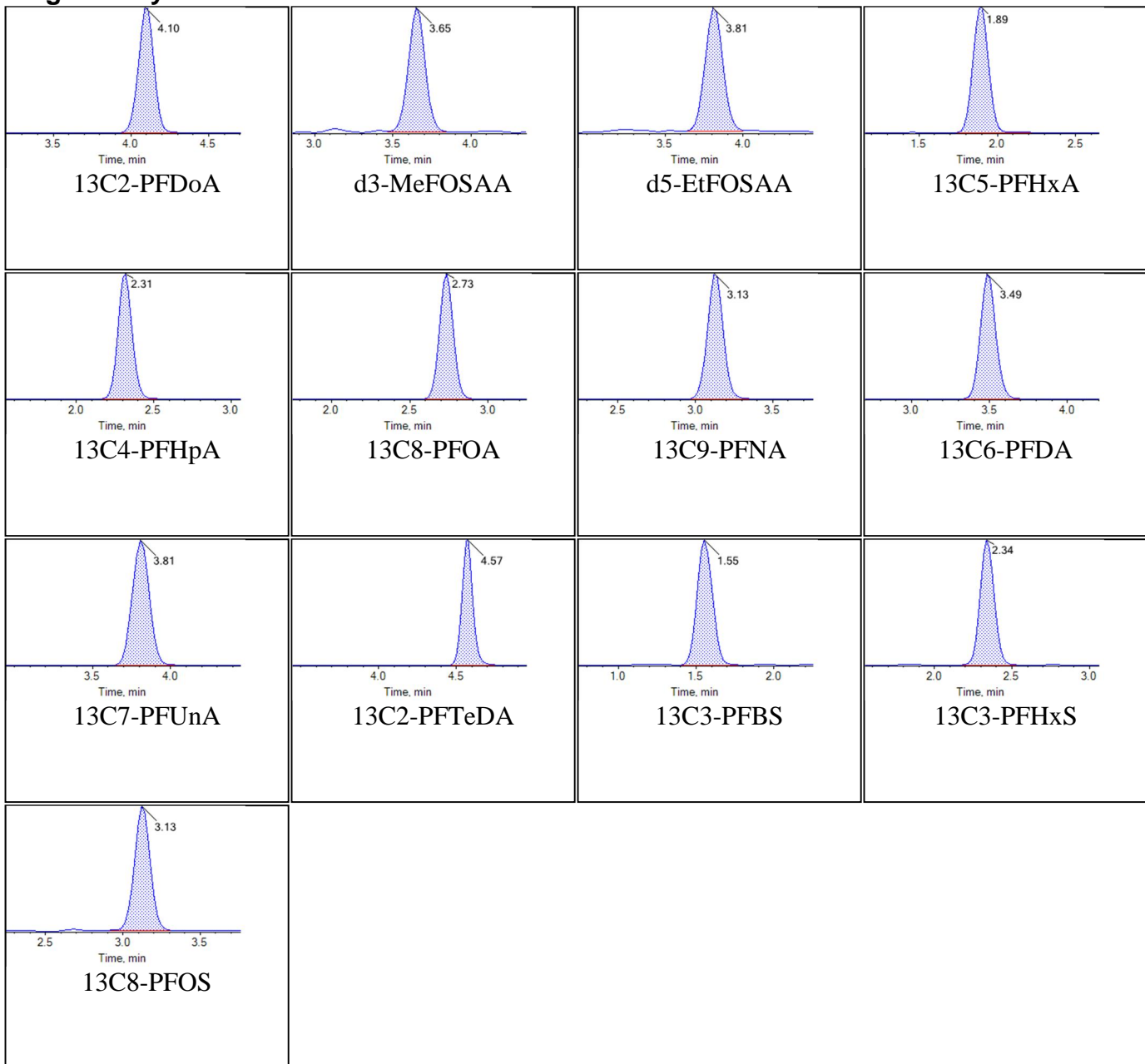
Created with Analyst Reporter  
Printed: 25/10/2018 9:52:41 AM



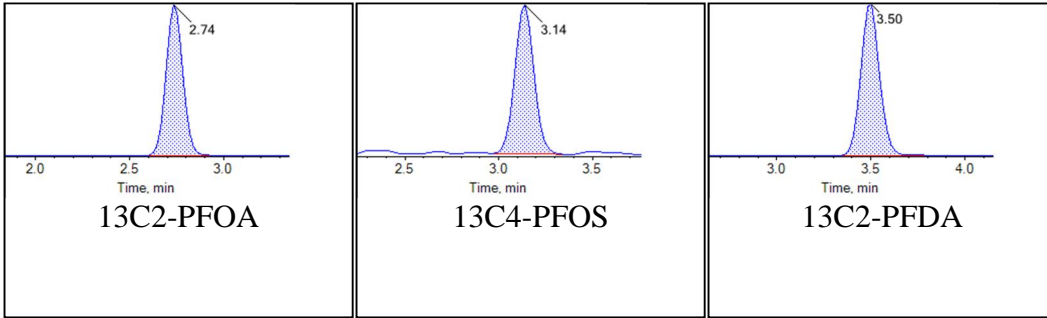
<b>Sample Name</b>	KB75 ISC	<b>Injection Vial</b>	1
<b>Sample ID</b>	Instrument Sensitivity Check	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T18:16:51	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



**Internal Standards:**

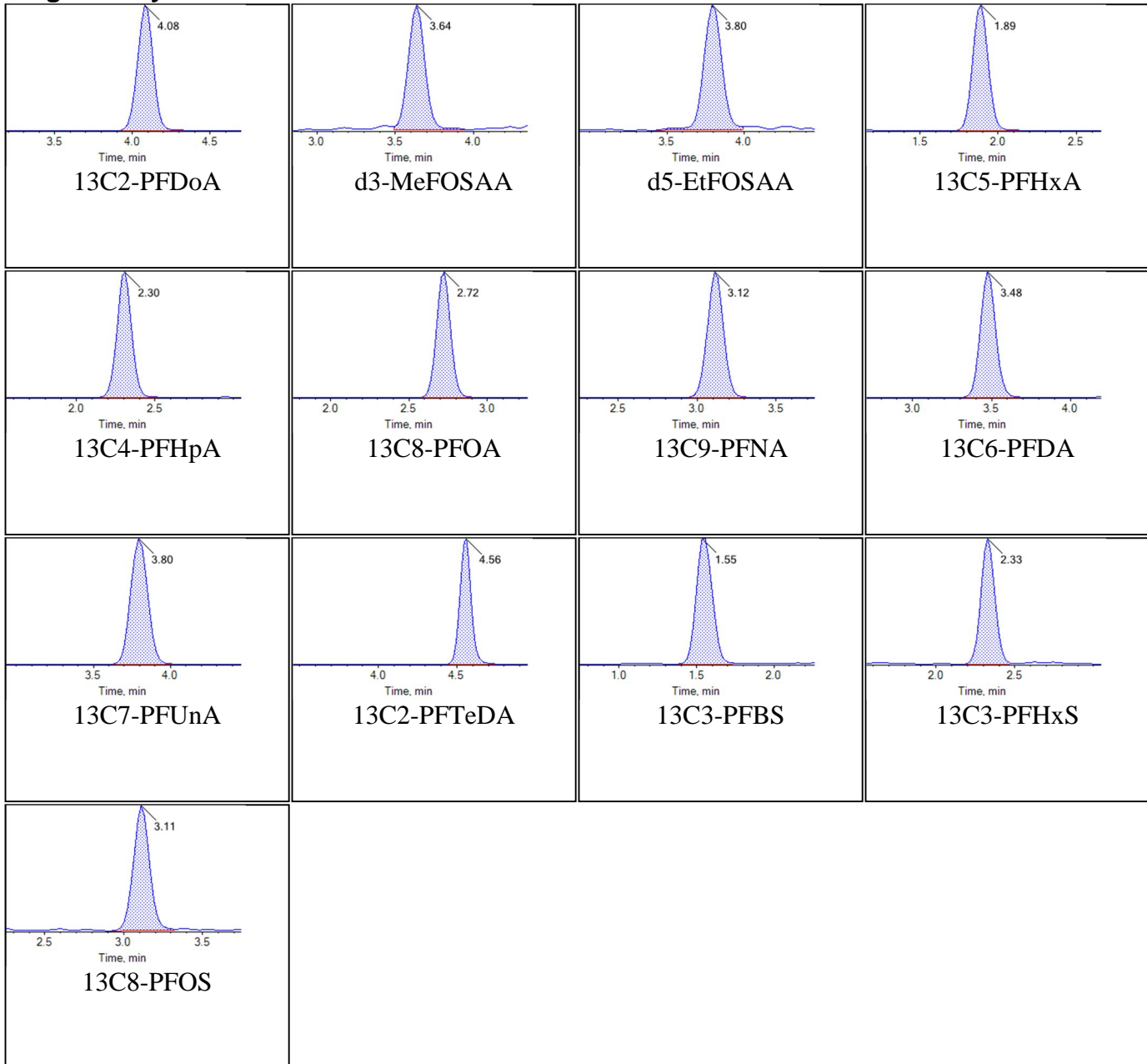




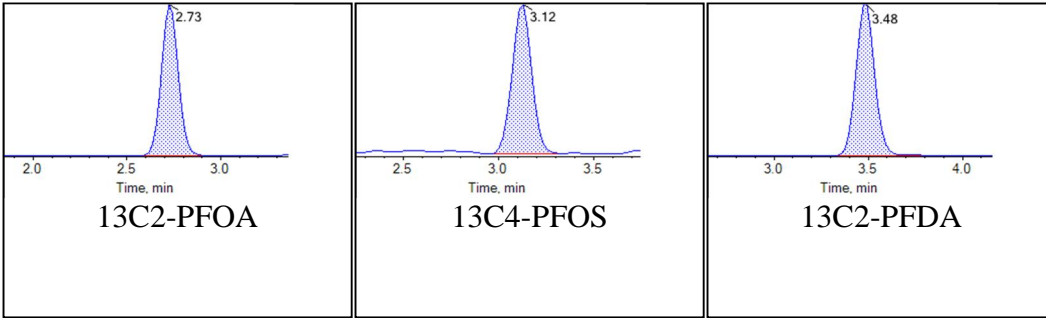
<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	2
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T18:27:43	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



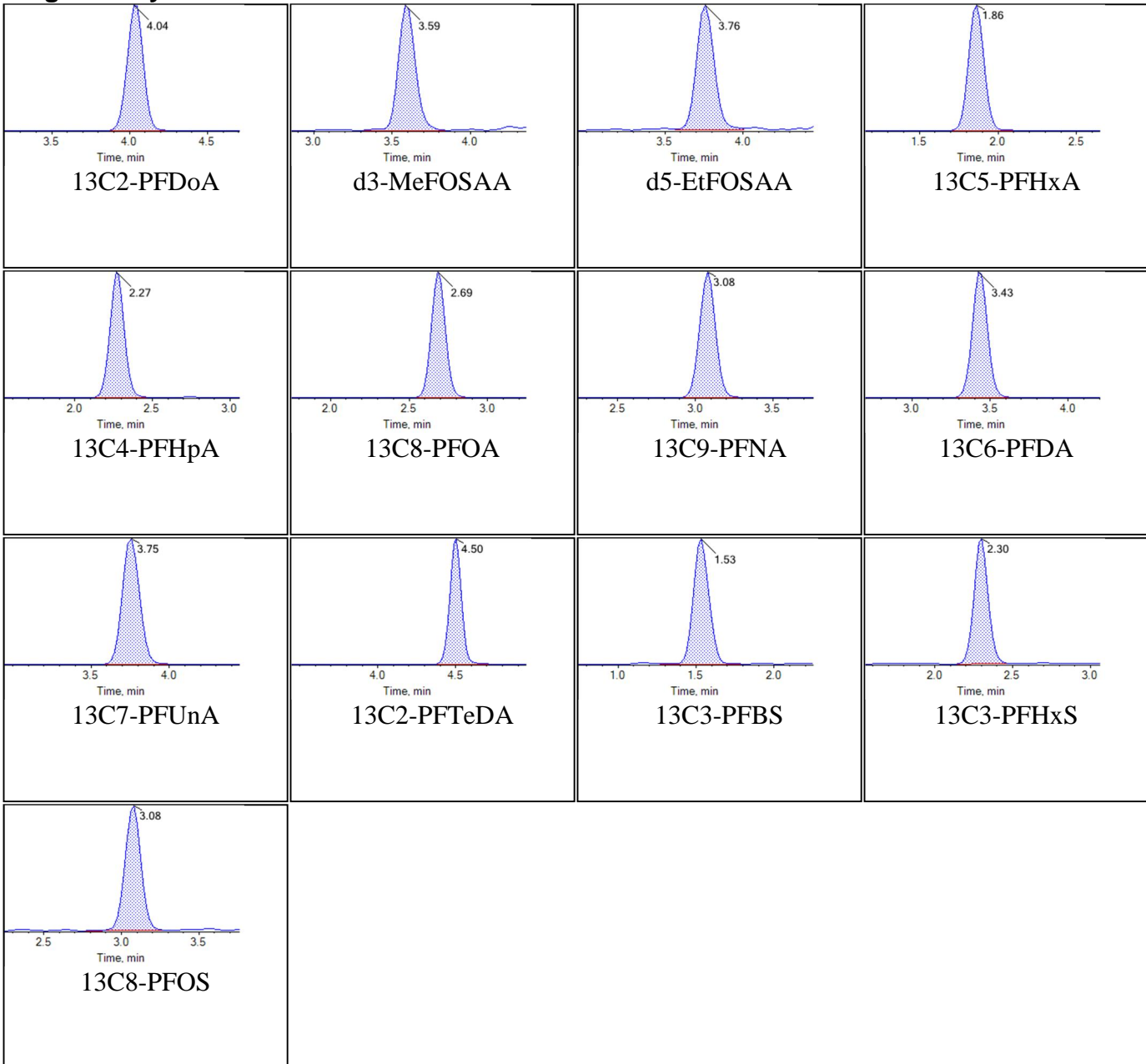
**Internal Standards:**



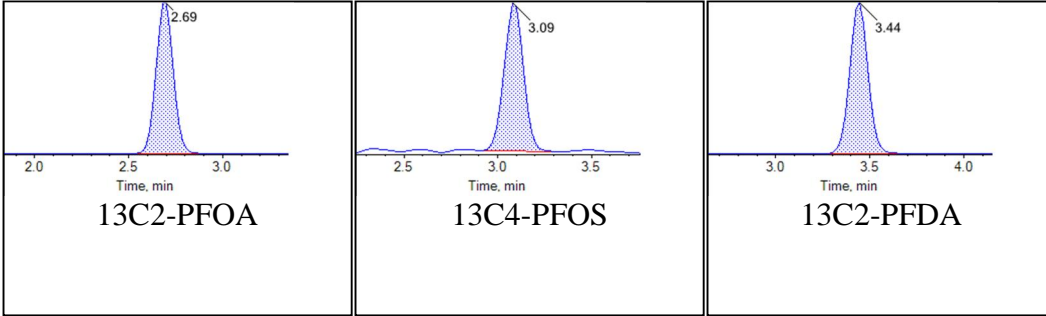
<b>Sample Name</b>	J8464MSD-FS-D(7)	<b>Injection Vial</b>	12
<b>Sample ID</b>	VC-MS09-DW05-0918-MSD	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T20:27:19	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



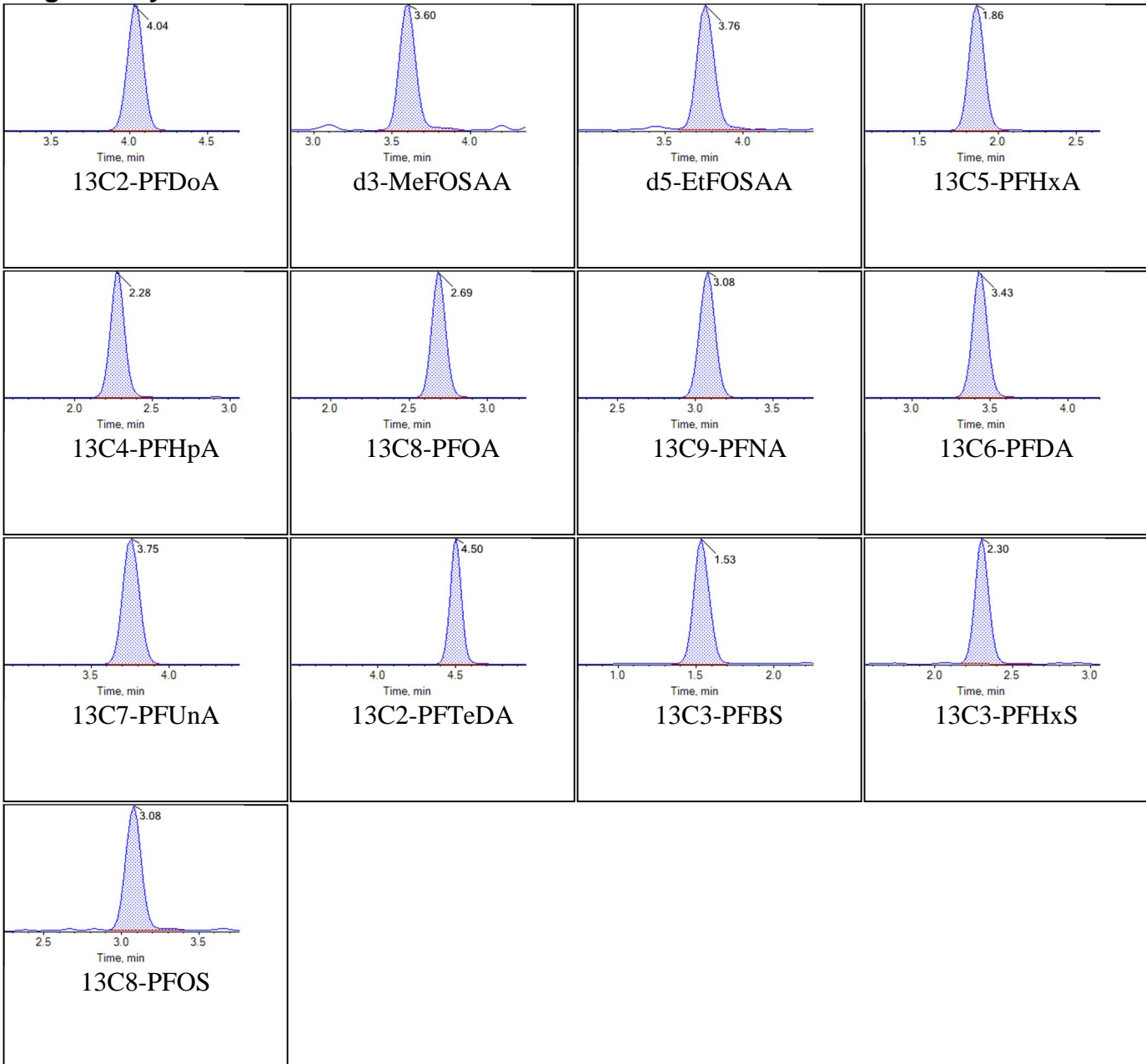
**Internal Standards:**



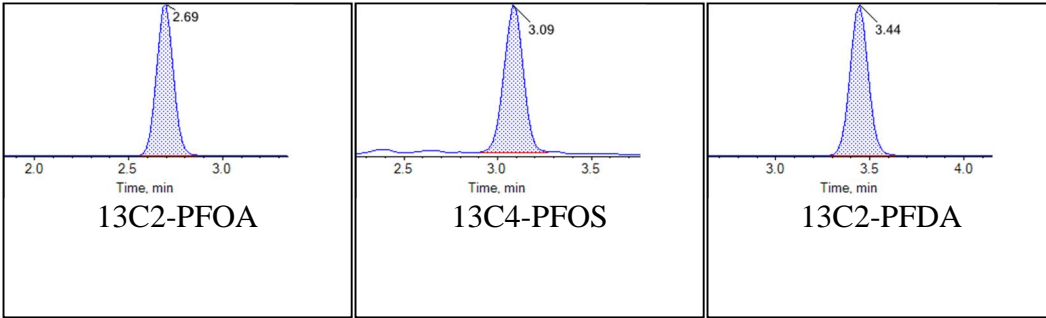
<b>Sample Name</b>	KB76 CCV	<b>Injection Vial</b>	13
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T20:38:12	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



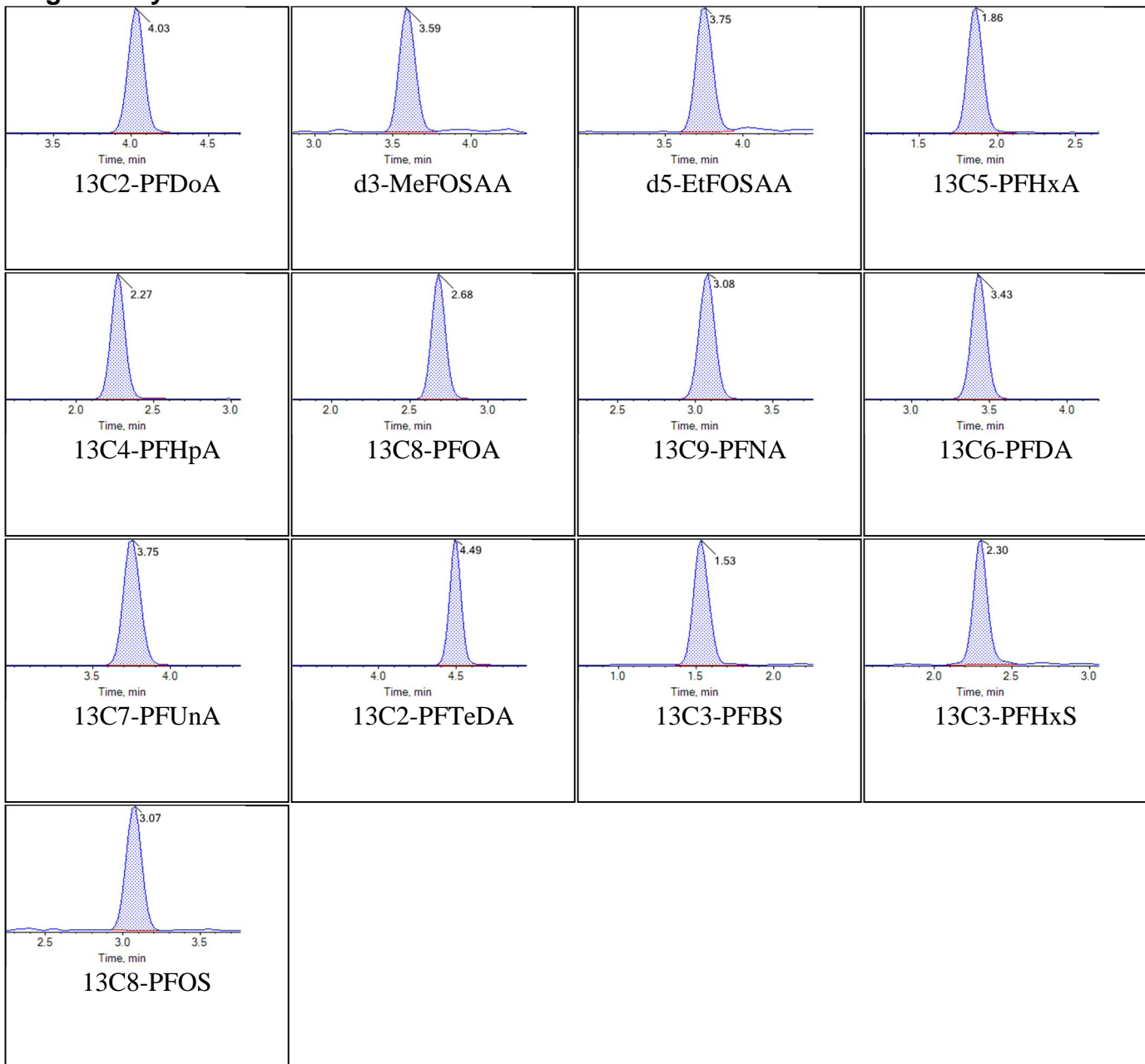
**Internal Standards:**



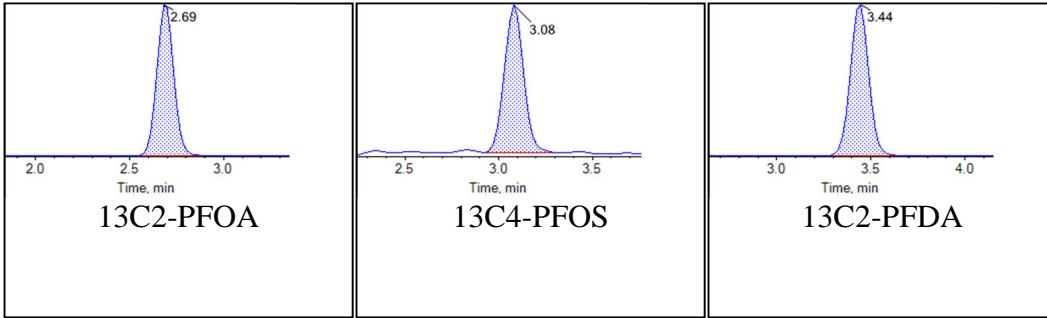
<b>Sample Name</b>	J8462-FS-D(7)	<b>Injection Vial</b>	14
<b>Sample ID</b>	VC-CS12-SB02-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T20:59:57	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



**Internal Standards:**

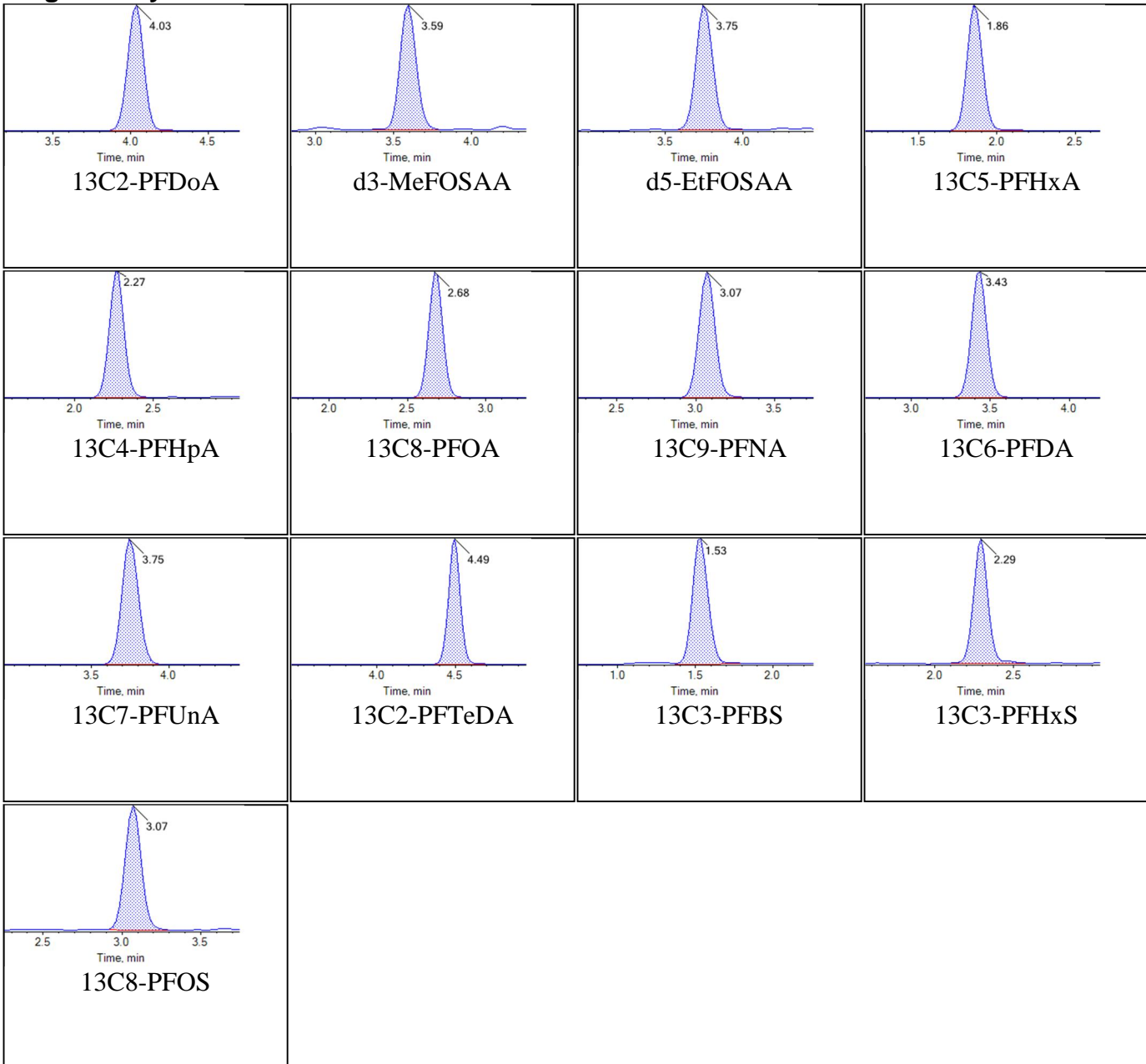




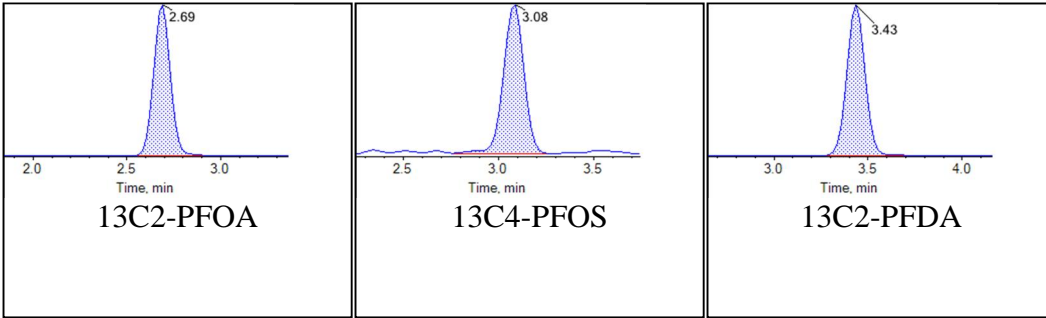
<b>Sample Name</b>	J8477-FS-D(7)	<b>Injection Vial</b>	15
<b>Sample ID</b>	VC-CS10-SS03-000H	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:10:49	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



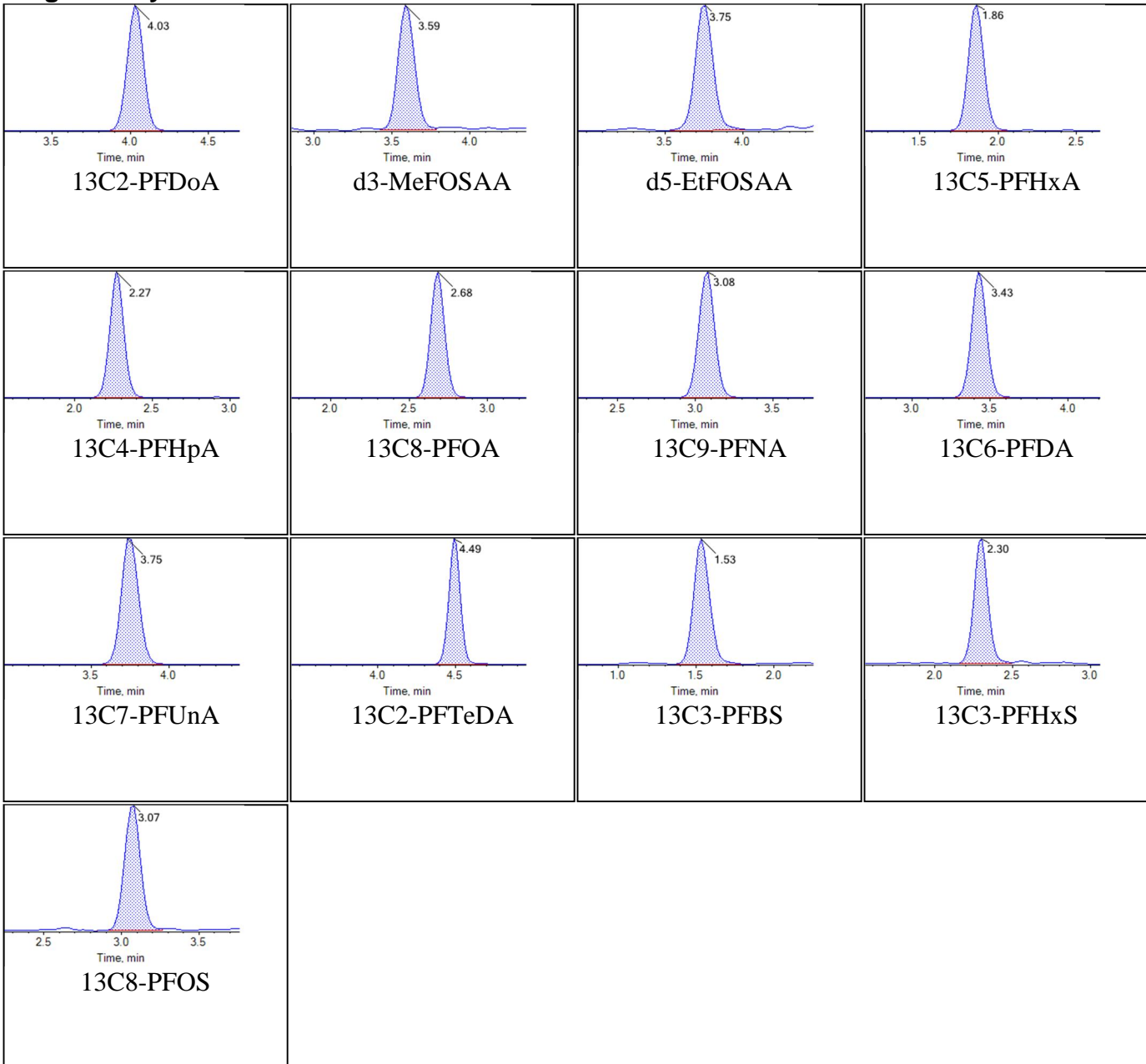
**Internal Standards:**



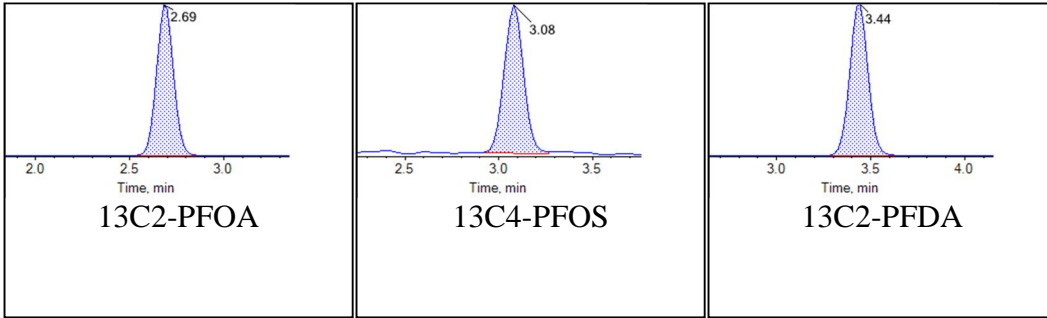
<b>Sample Name</b>	J8478-FS-D(7)	<b>Injection Vial</b>	16
<b>Sample ID</b>	VC-CS10-SB03-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:21:41	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



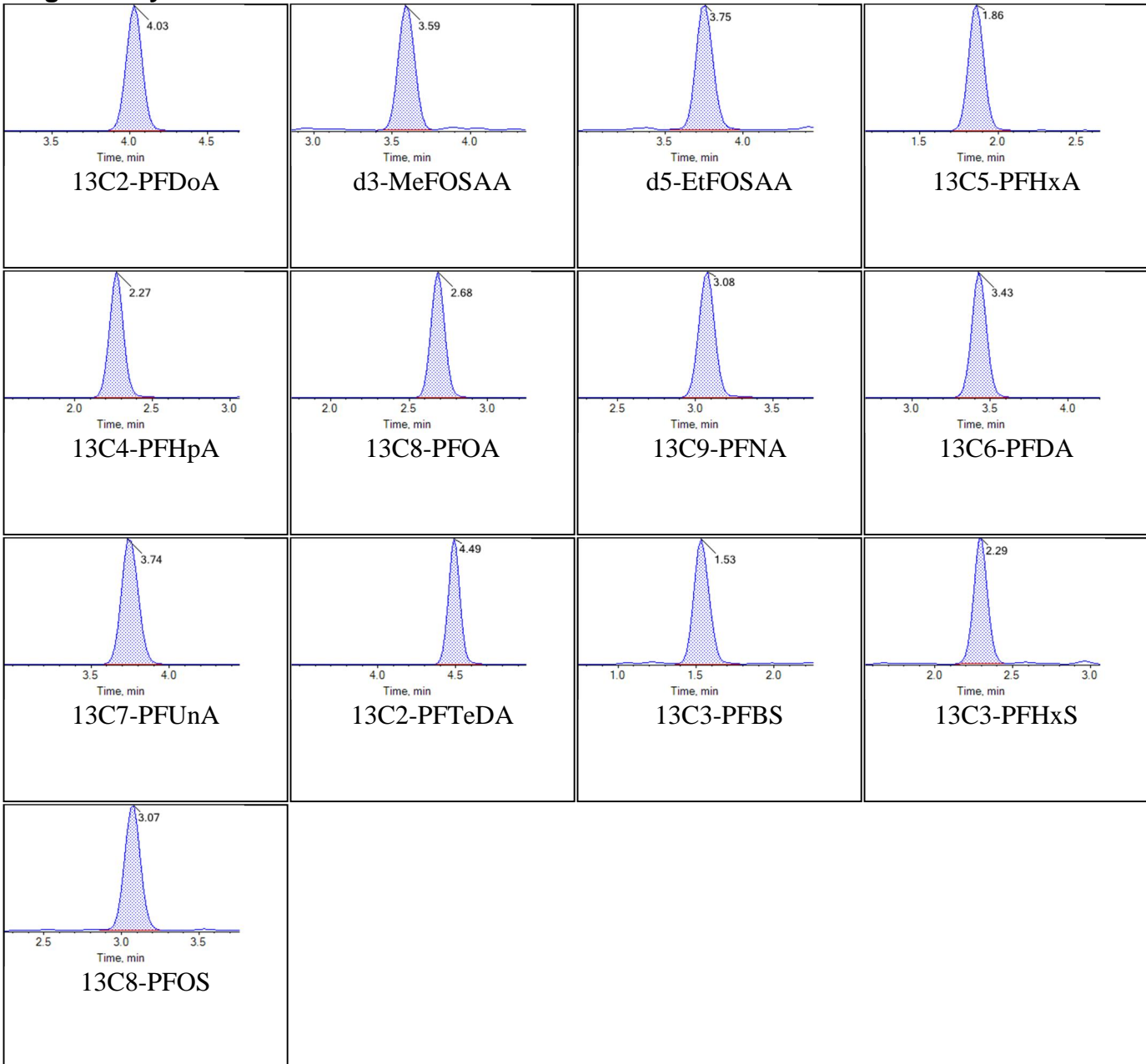
**Internal Standards:**



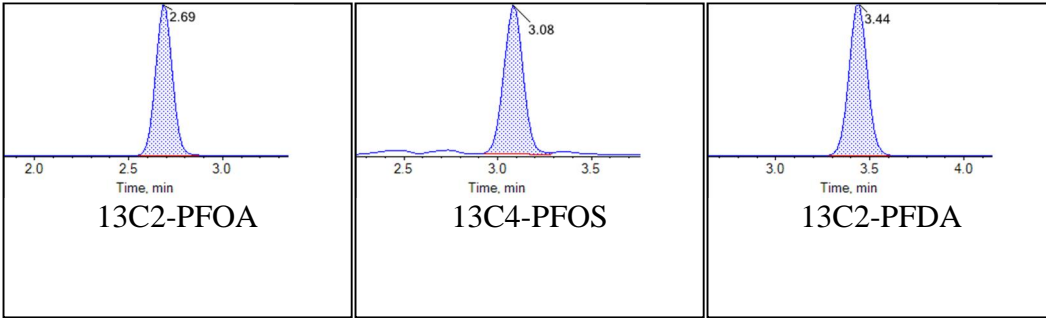
<b>Sample Name</b>	J8479-FS-D(7)	<b>Injection Vial</b>	17
<b>Sample ID</b>	VC-CS10-SB03-0506	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:32:32	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



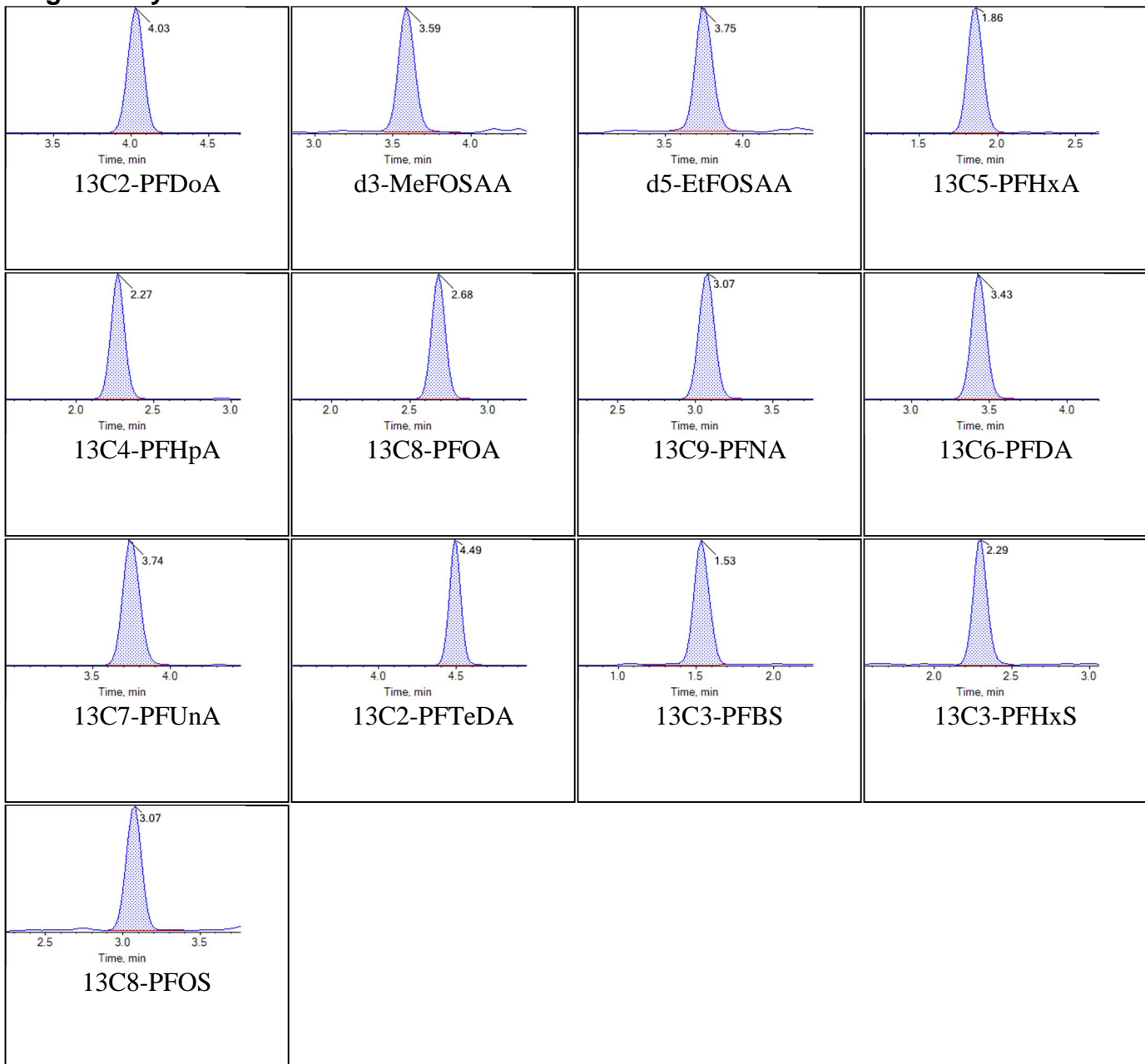
**Internal Standards:**



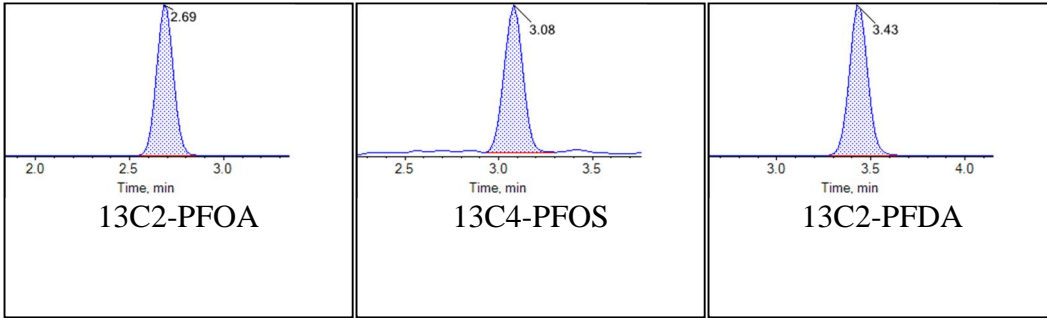
<b>Sample Name</b>	J8480-FS-D(7)	<b>Injection Vial</b>	18
<b>Sample ID</b>	VC-CS10-SS04-000H	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:43:23	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



**Internal Standards:**

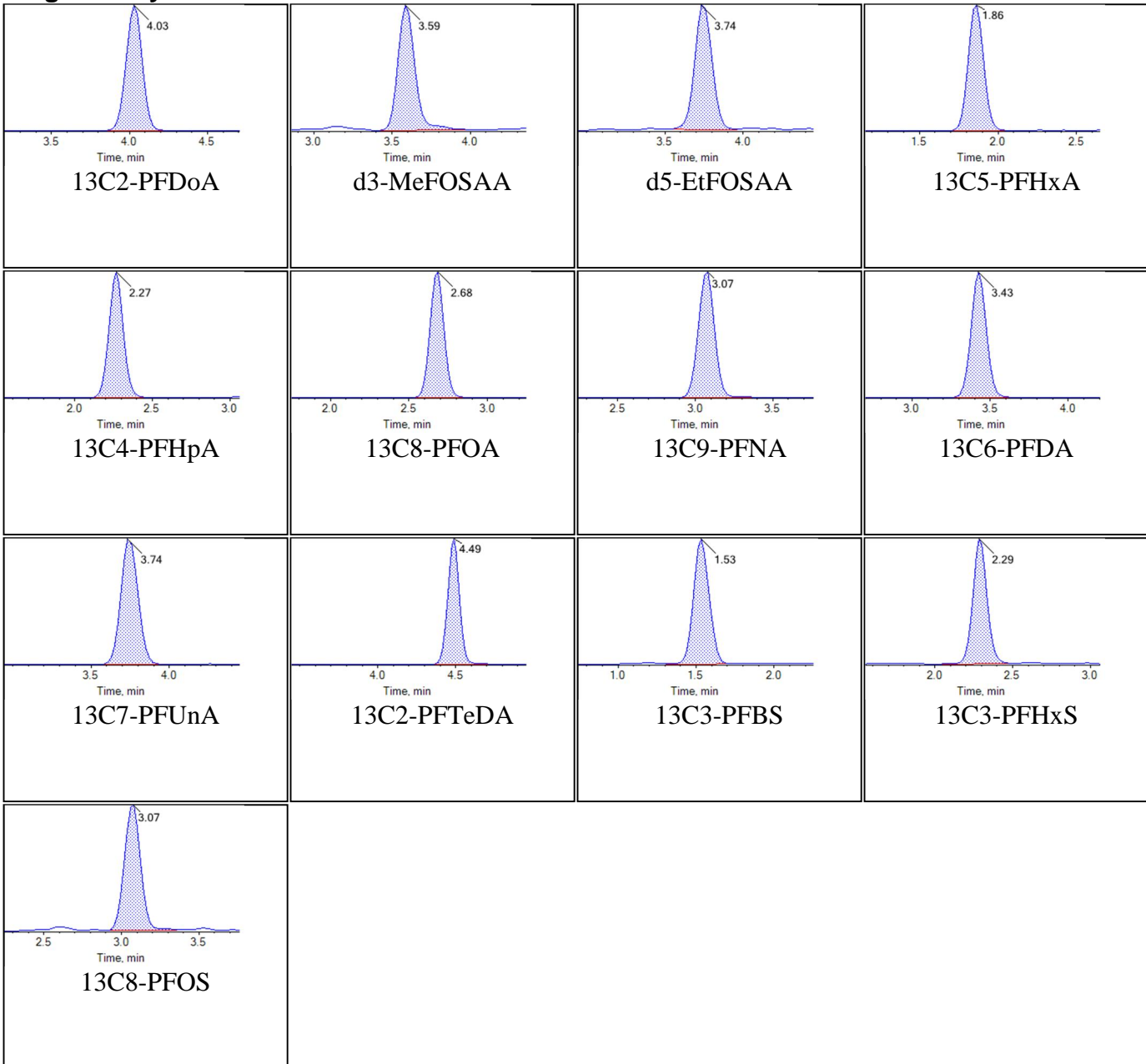




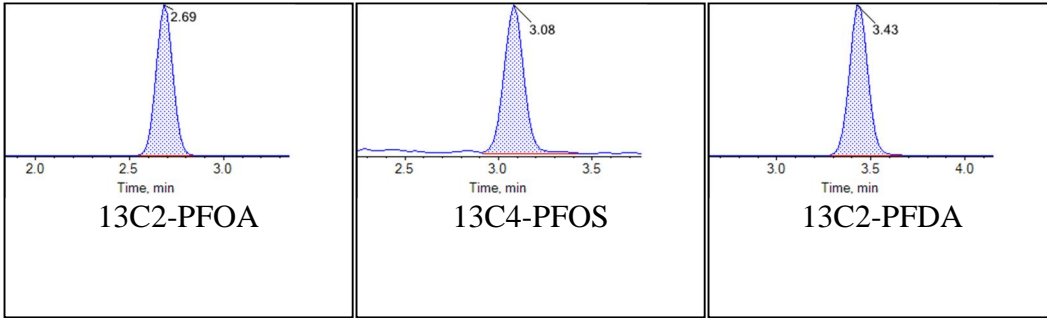
<b>Sample Name</b>	J8481-FS-D(7)	<b>Injection Vial</b>	19
<b>Sample ID</b>	VC-CS10-SB04-0102	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T21:54:14	<b>Data File</b>	10192018.wiff
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<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



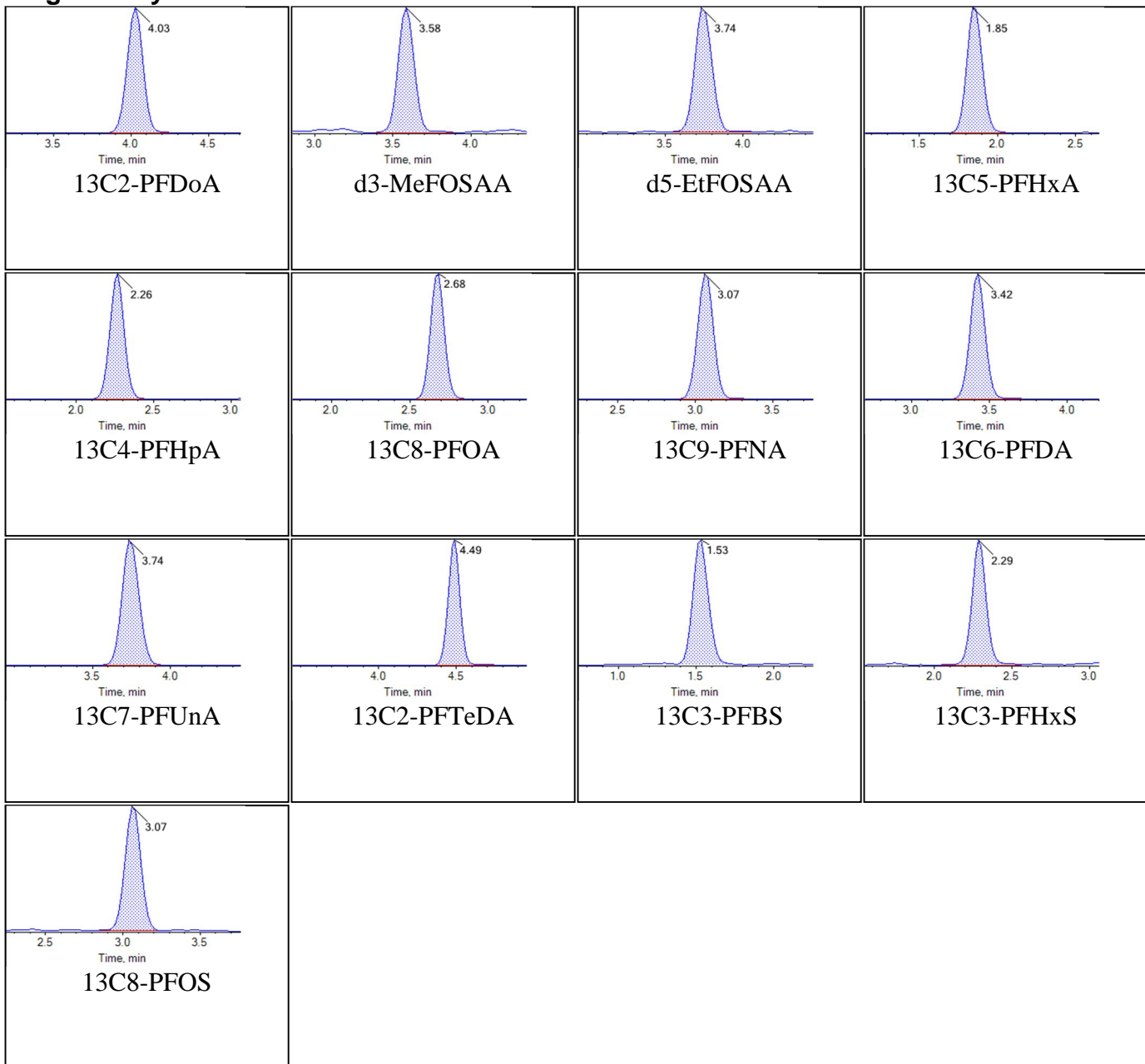
**Internal Standards:**



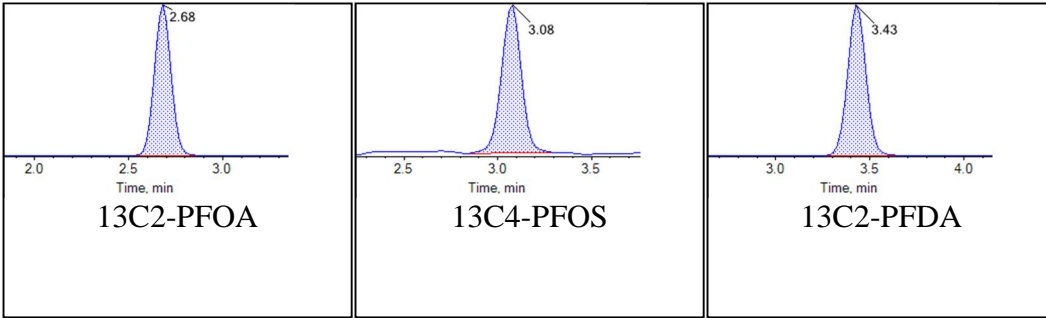
<b>Sample Name</b>	J8461-FS-D(7)	<b>Injection Vial</b>	21
<b>Sample ID</b>	VC-CS12-SS02-000H	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T22:15:59	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



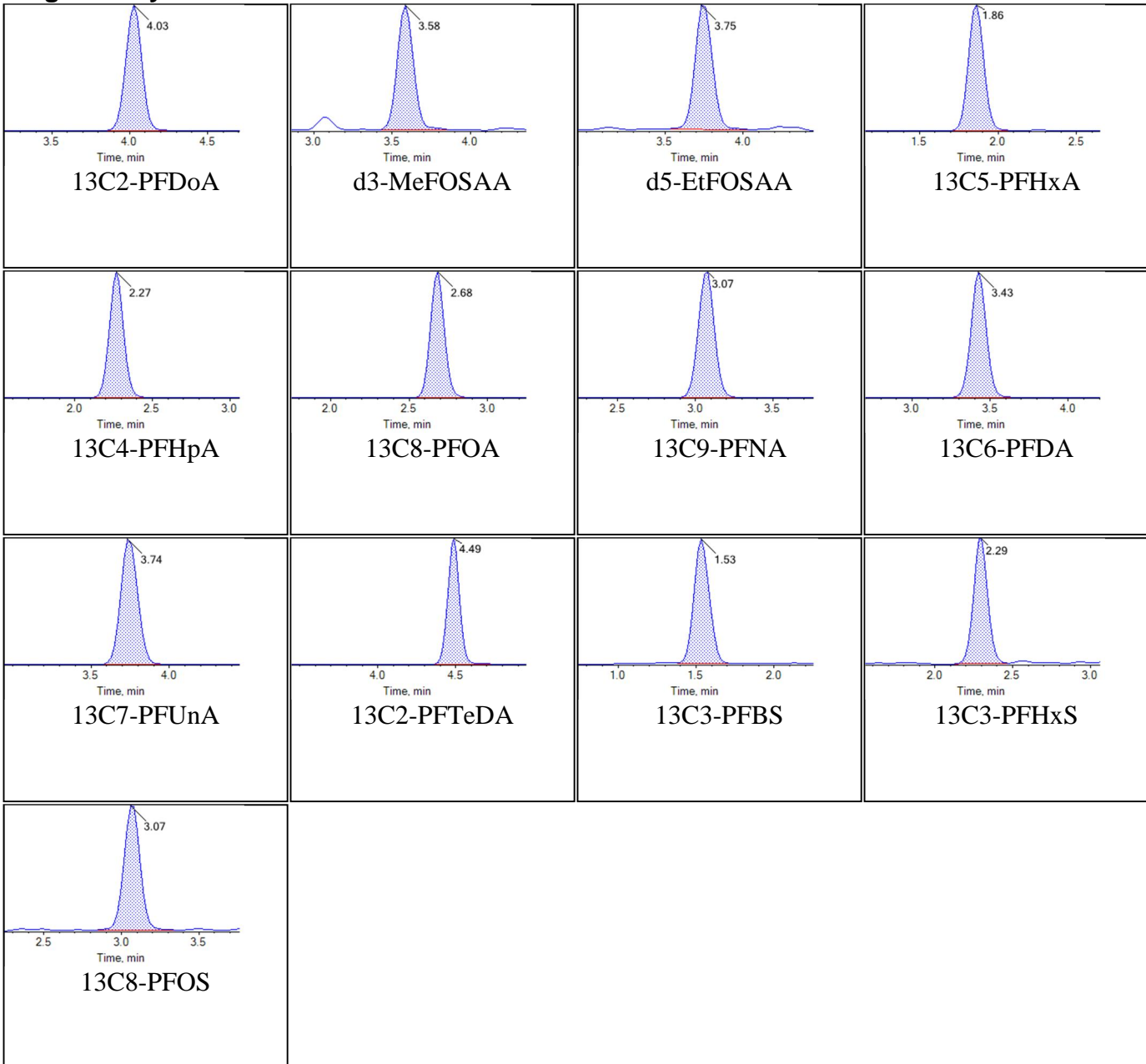
**Internal Standards:**



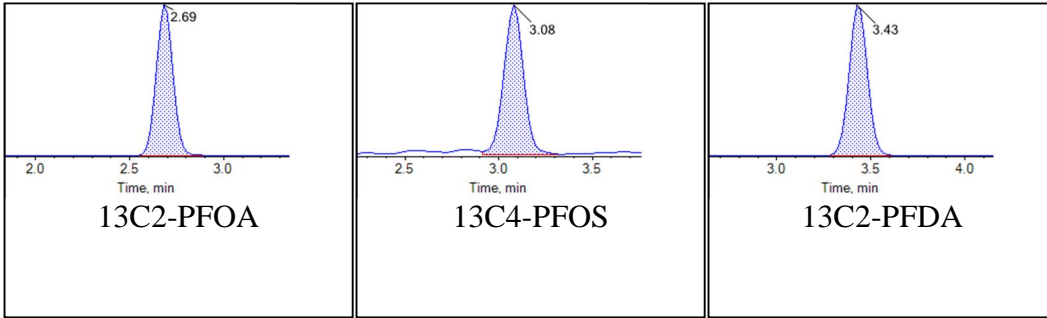
<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	22
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T22:26:52	<b>Data File</b>	10192018.wiff
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<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



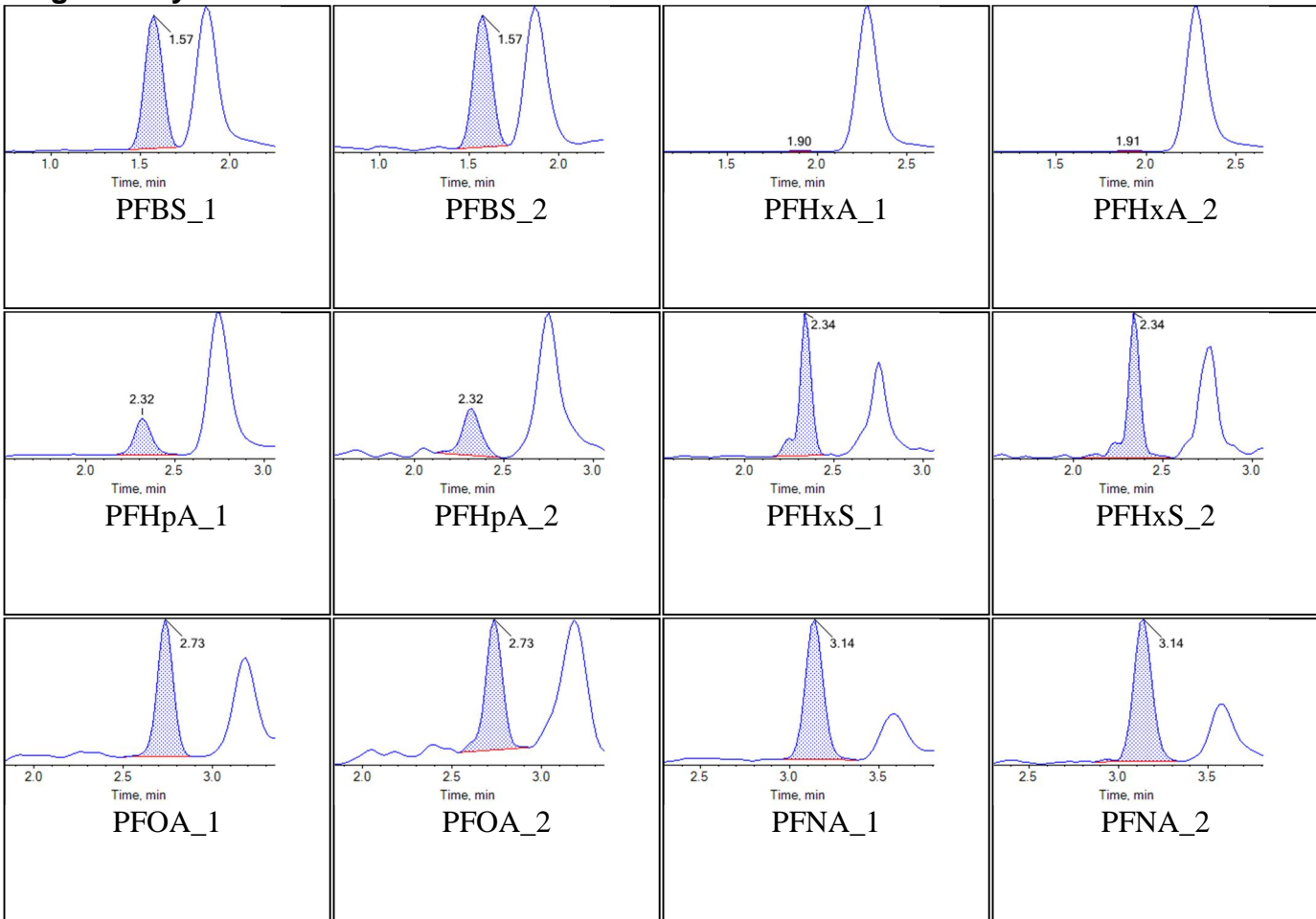
**Internal Standards:**

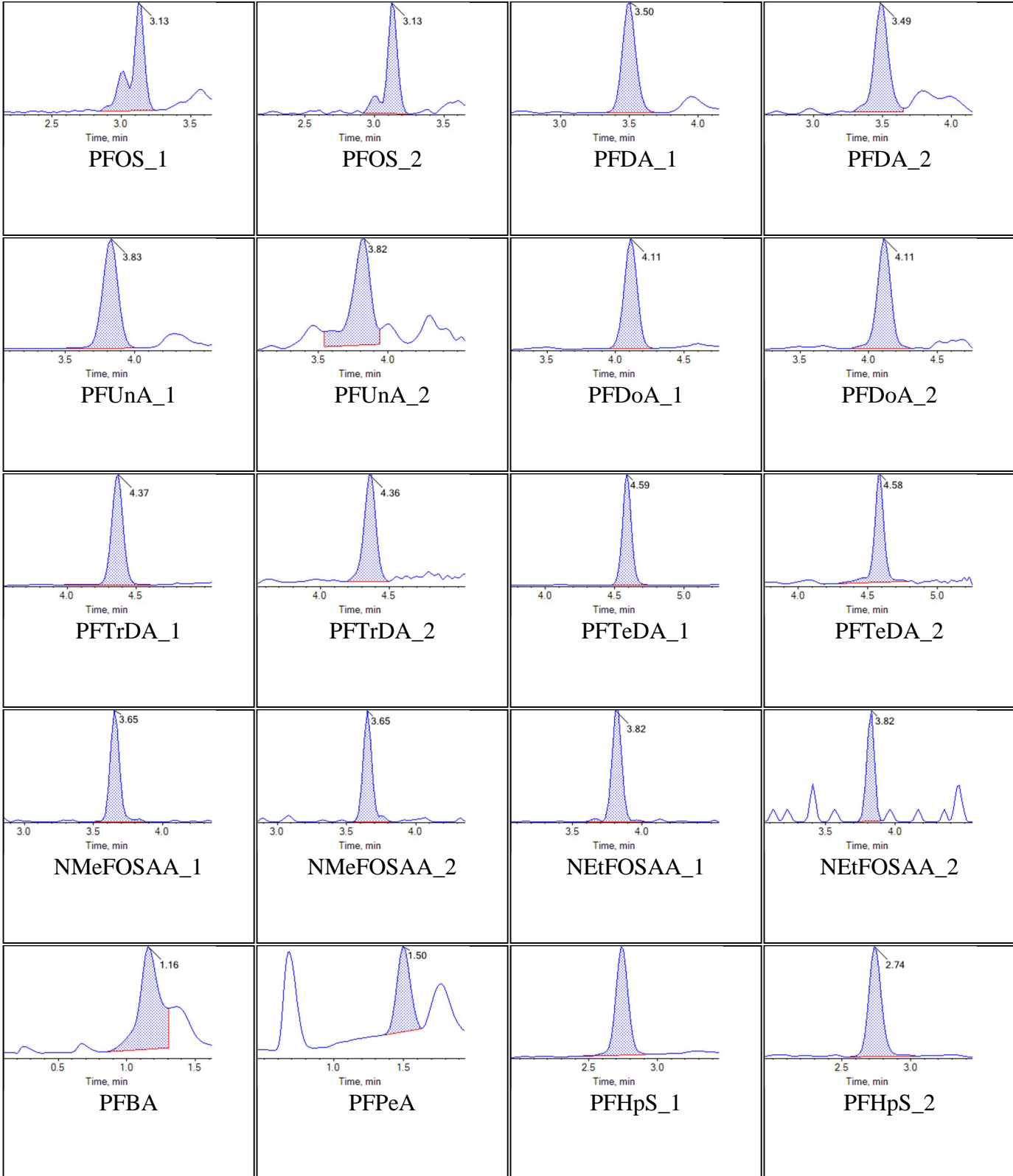


<b>Sample Name</b>	KB73	<b>Injection Vial</b>	2
<b>Sample ID</b>	L1	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:46:52	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

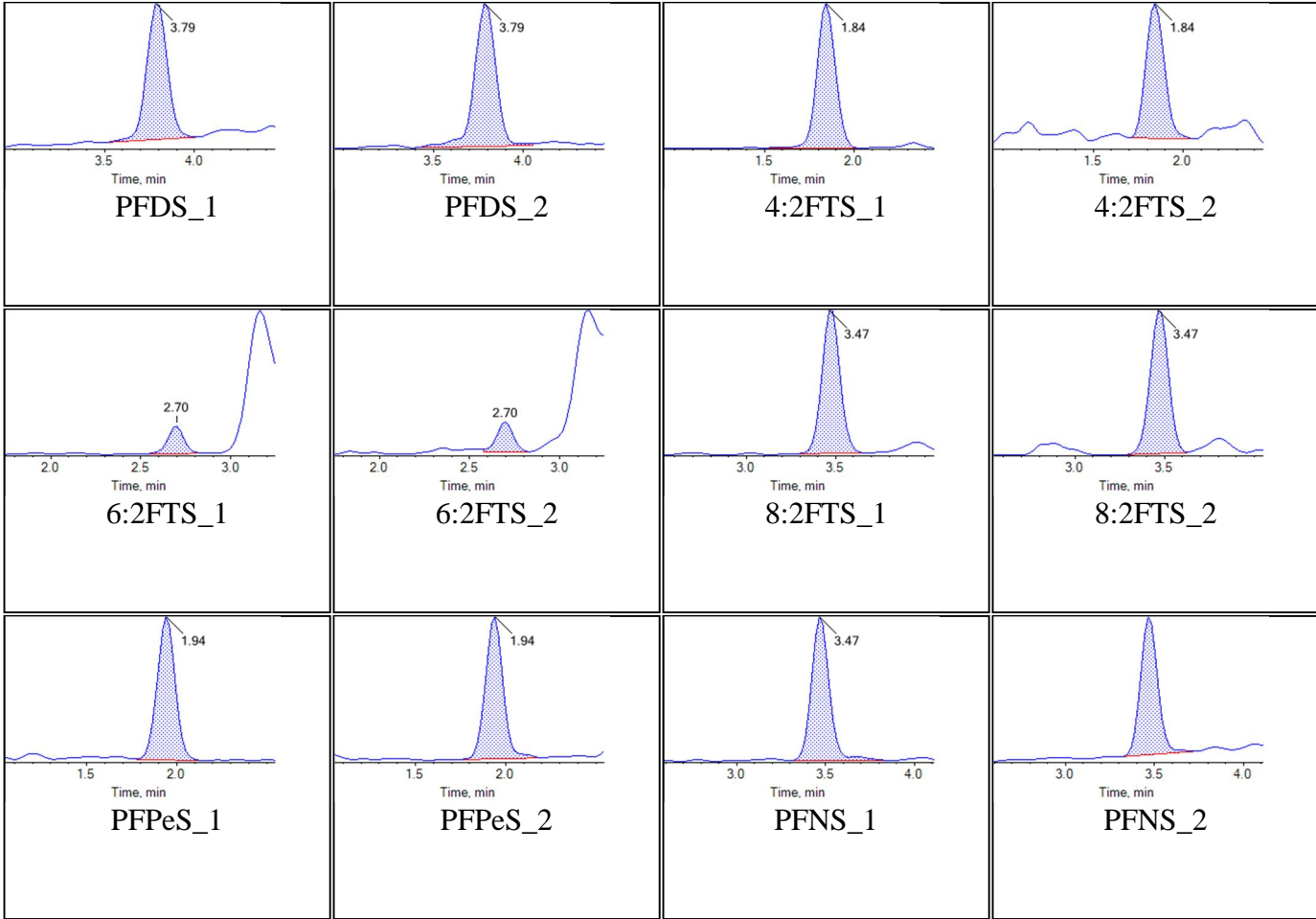
## Chromatograms

### Target Analytes:

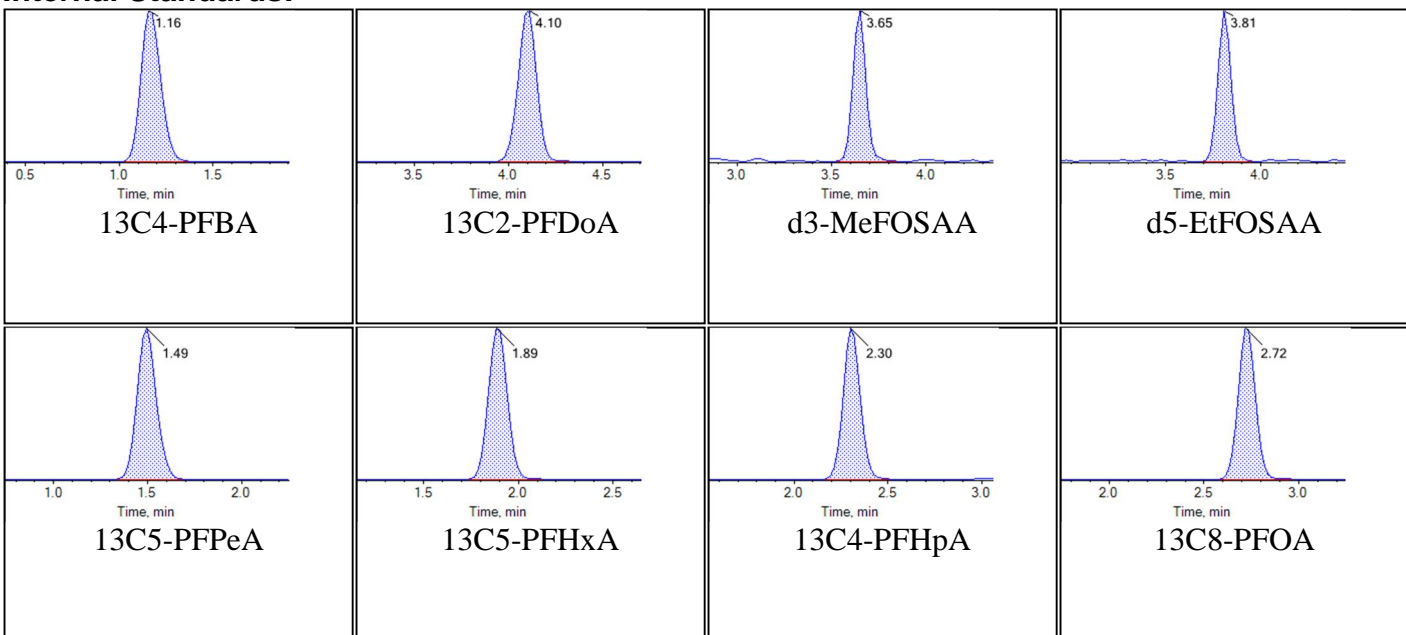


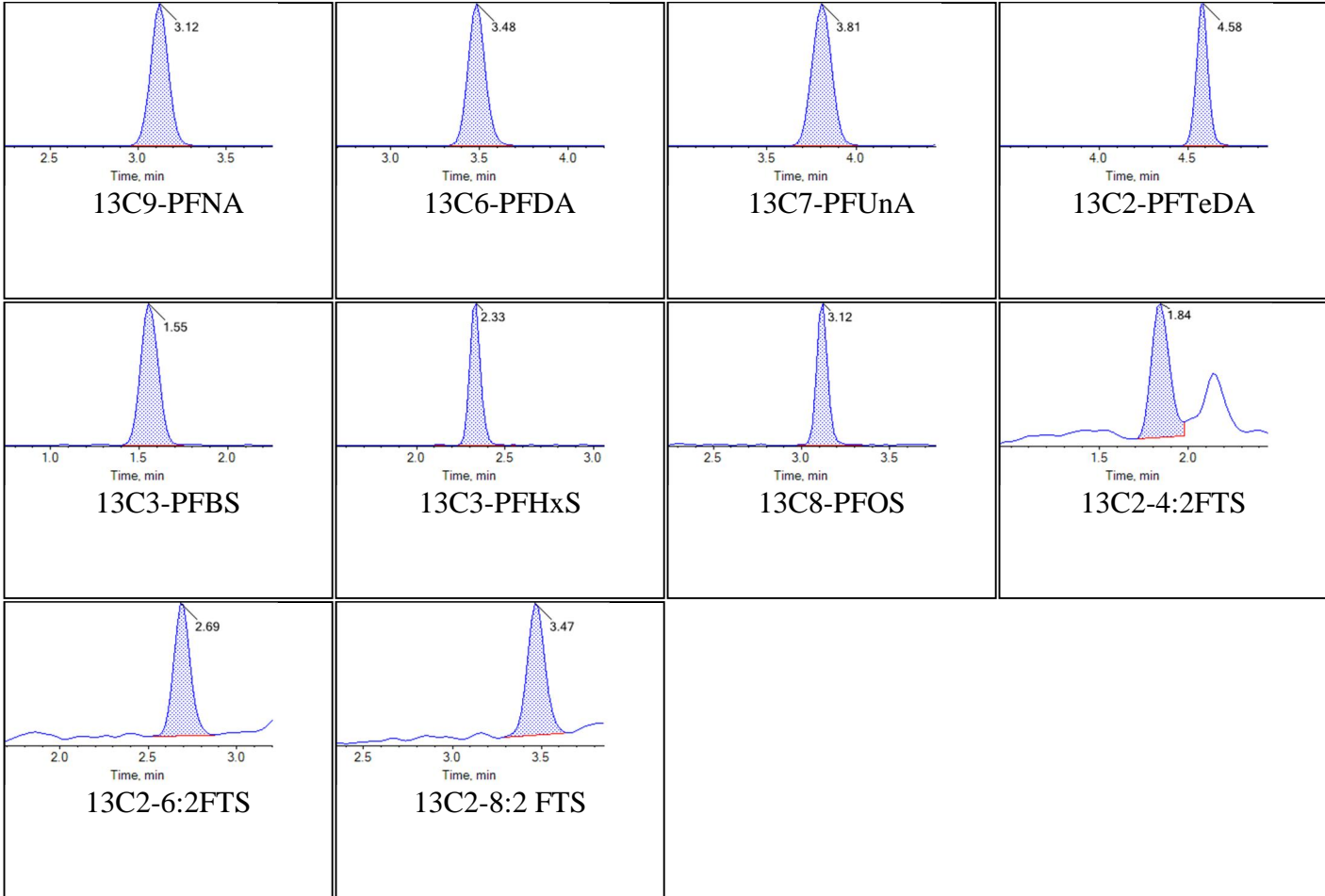






### Internal Standards:

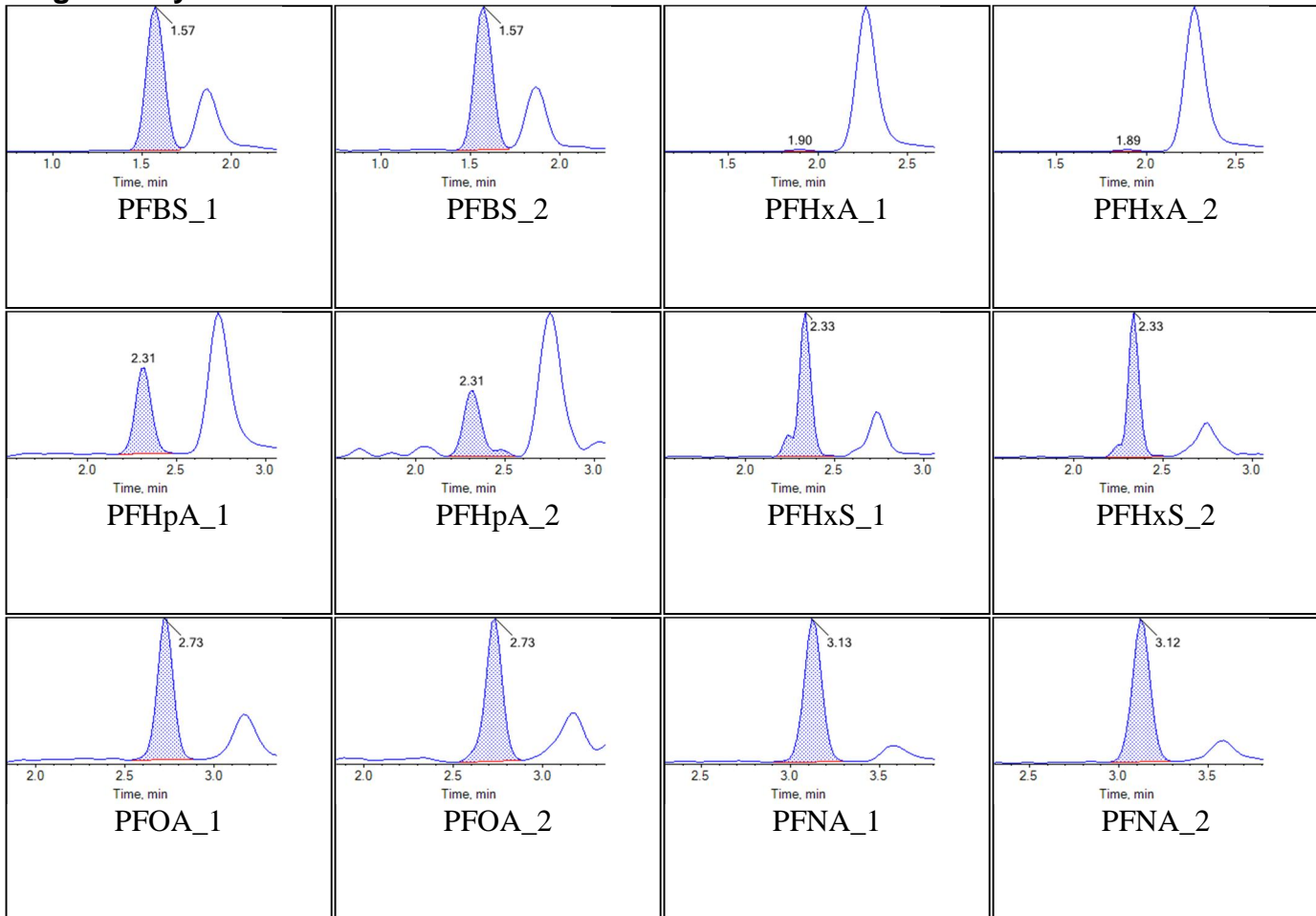


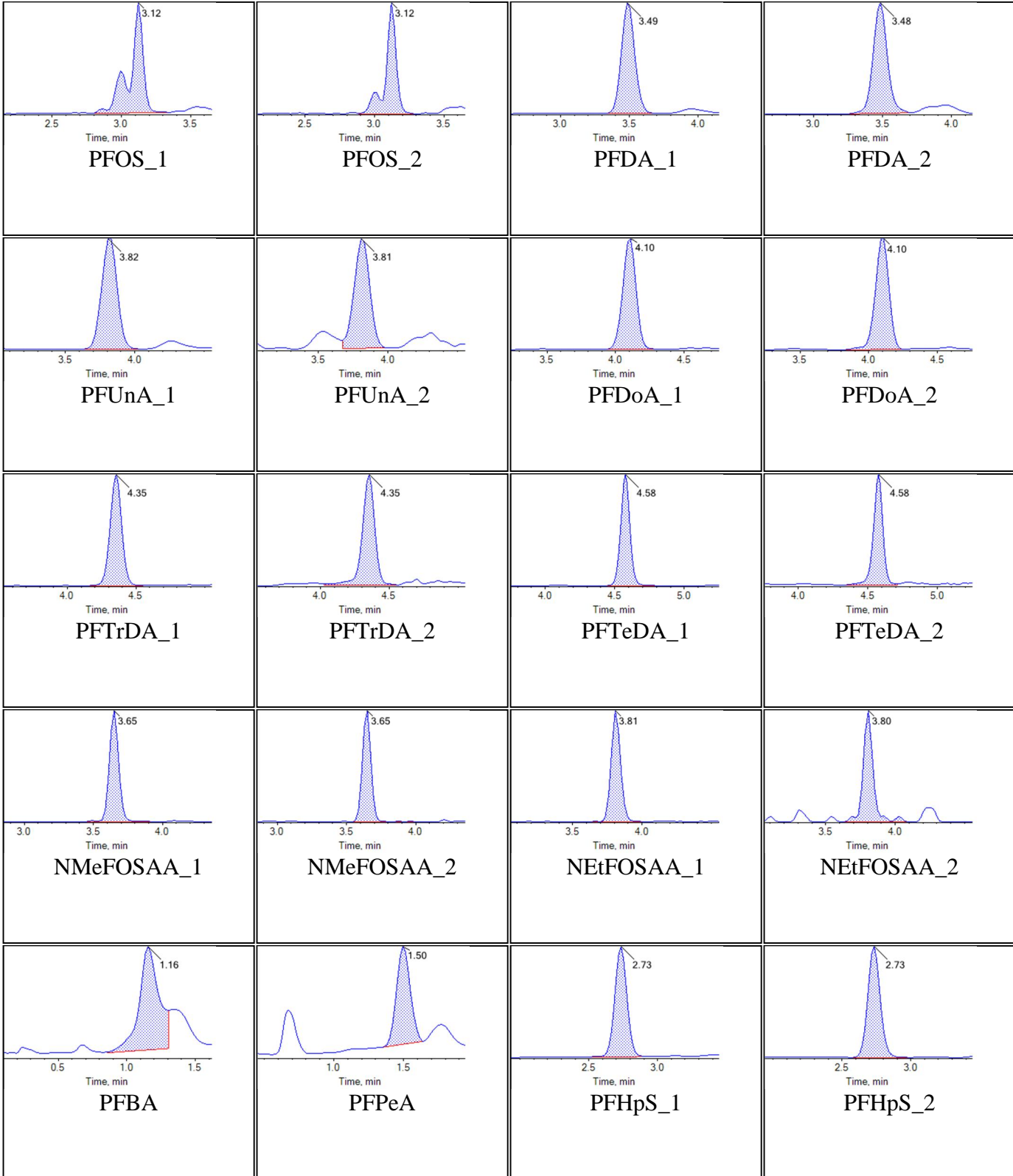


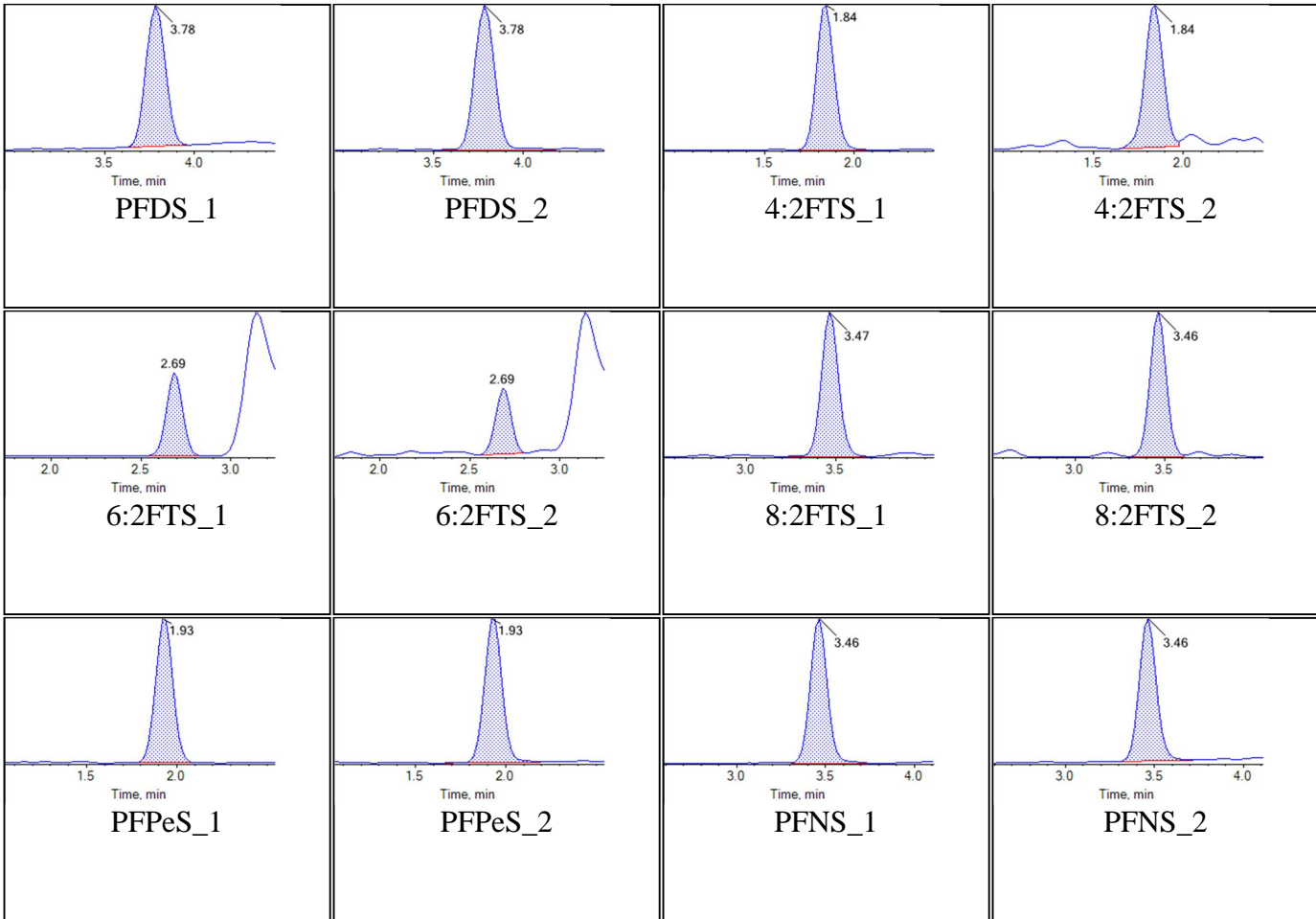
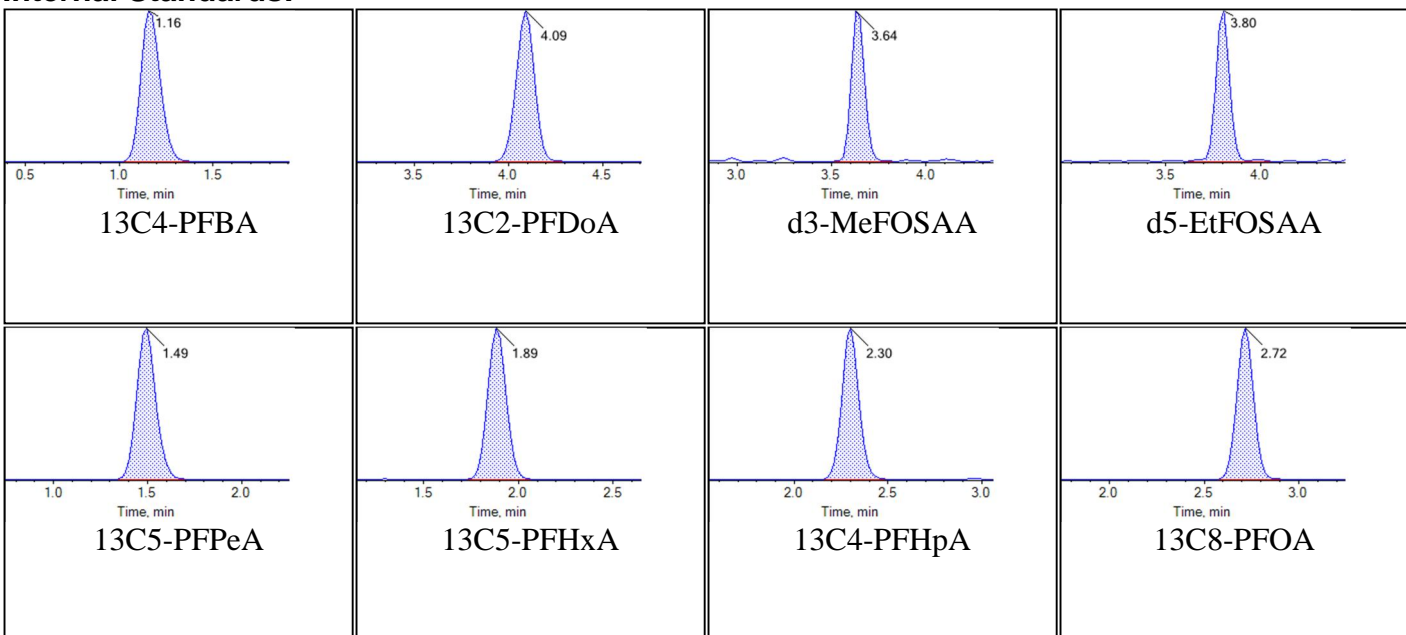
<b>Sample Name</b>	KB74	<b>Injection Vial</b>	3
<b>Sample ID</b>	L2	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:57:45	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

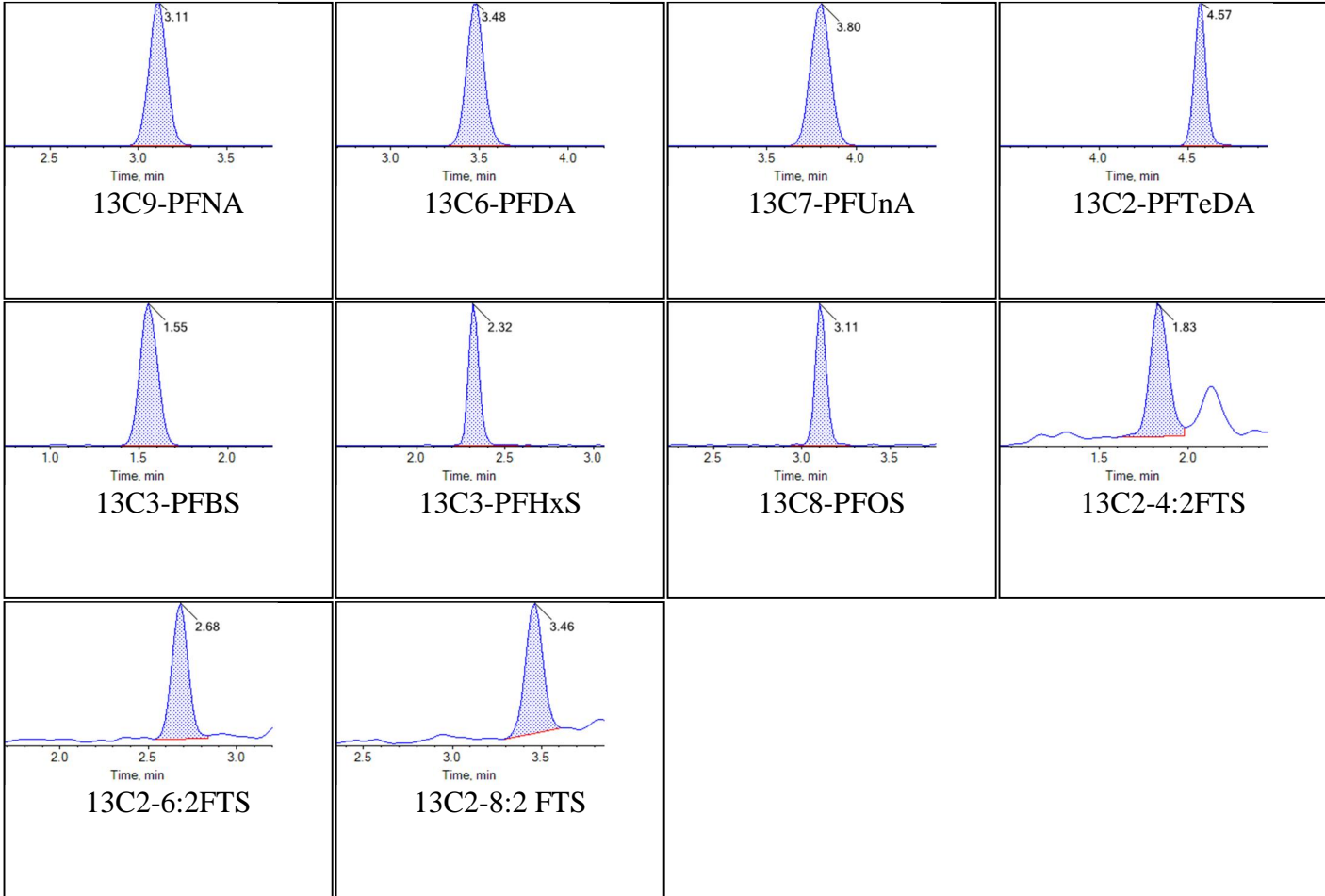
## Chromatograms

### Target Analytes:





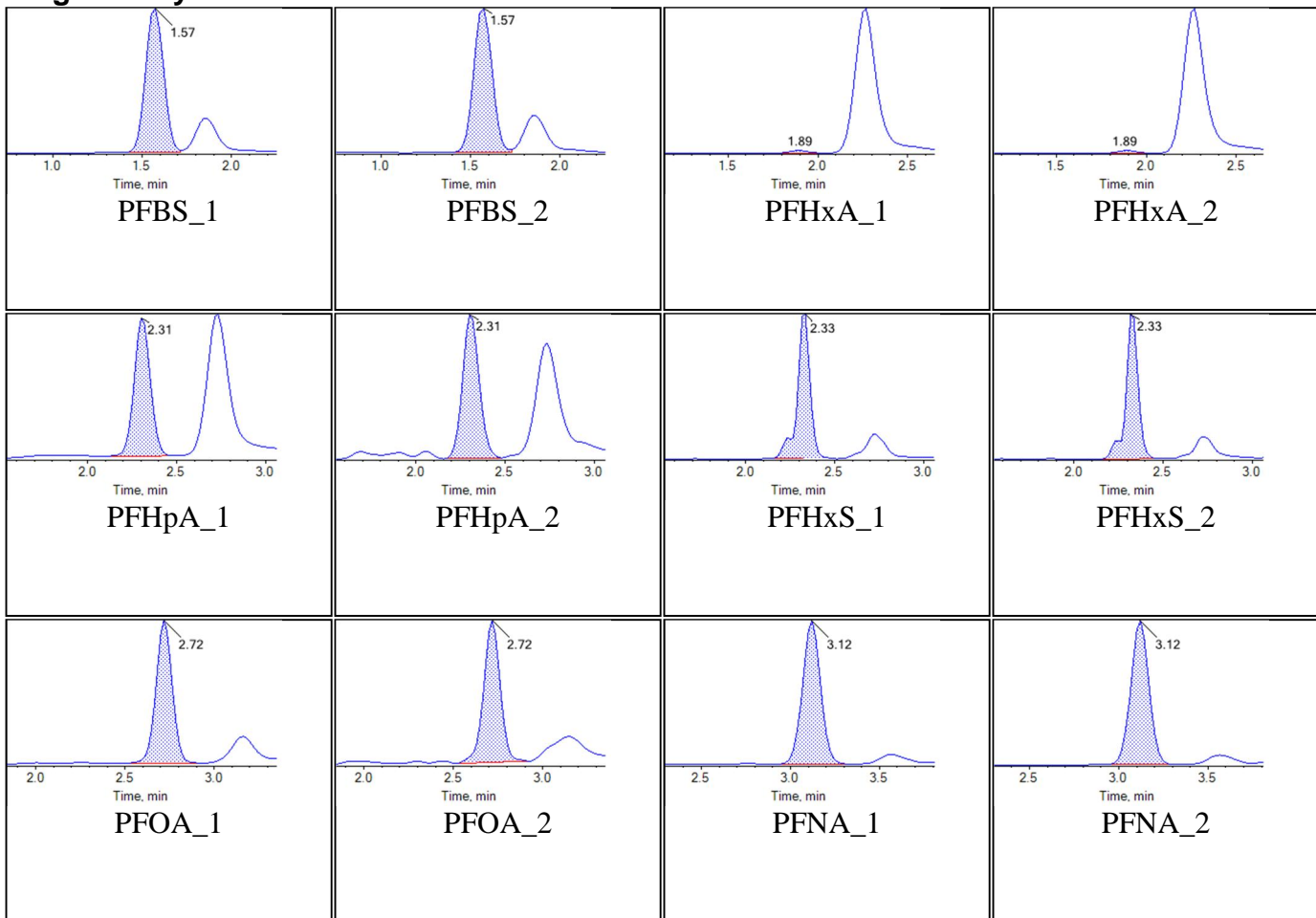
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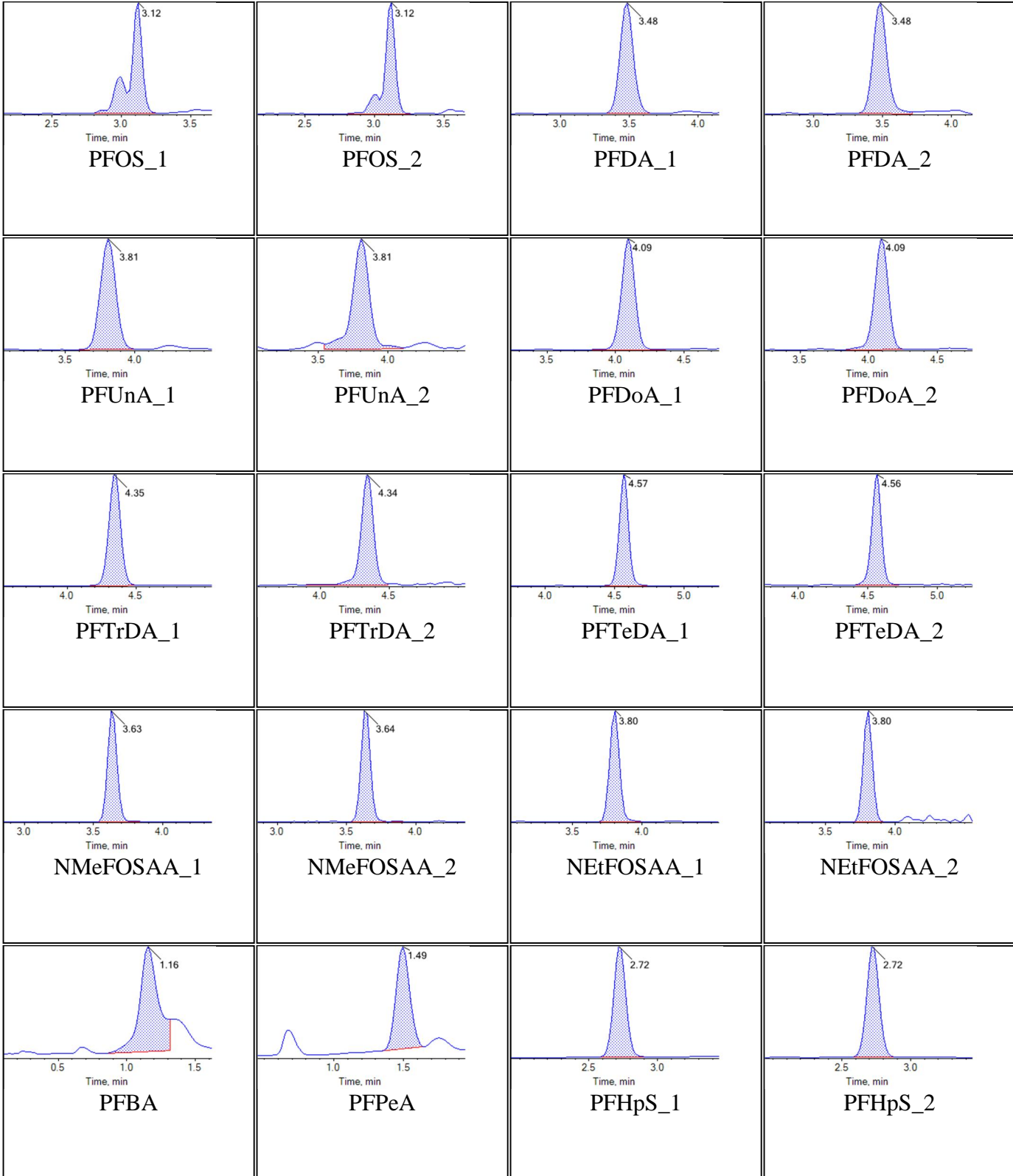


<b>Sample Name</b>	KB75	<b>Injection Vial</b>	4
<b>Sample ID</b>	L3	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:08:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
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<b>Sample Comment</b>			

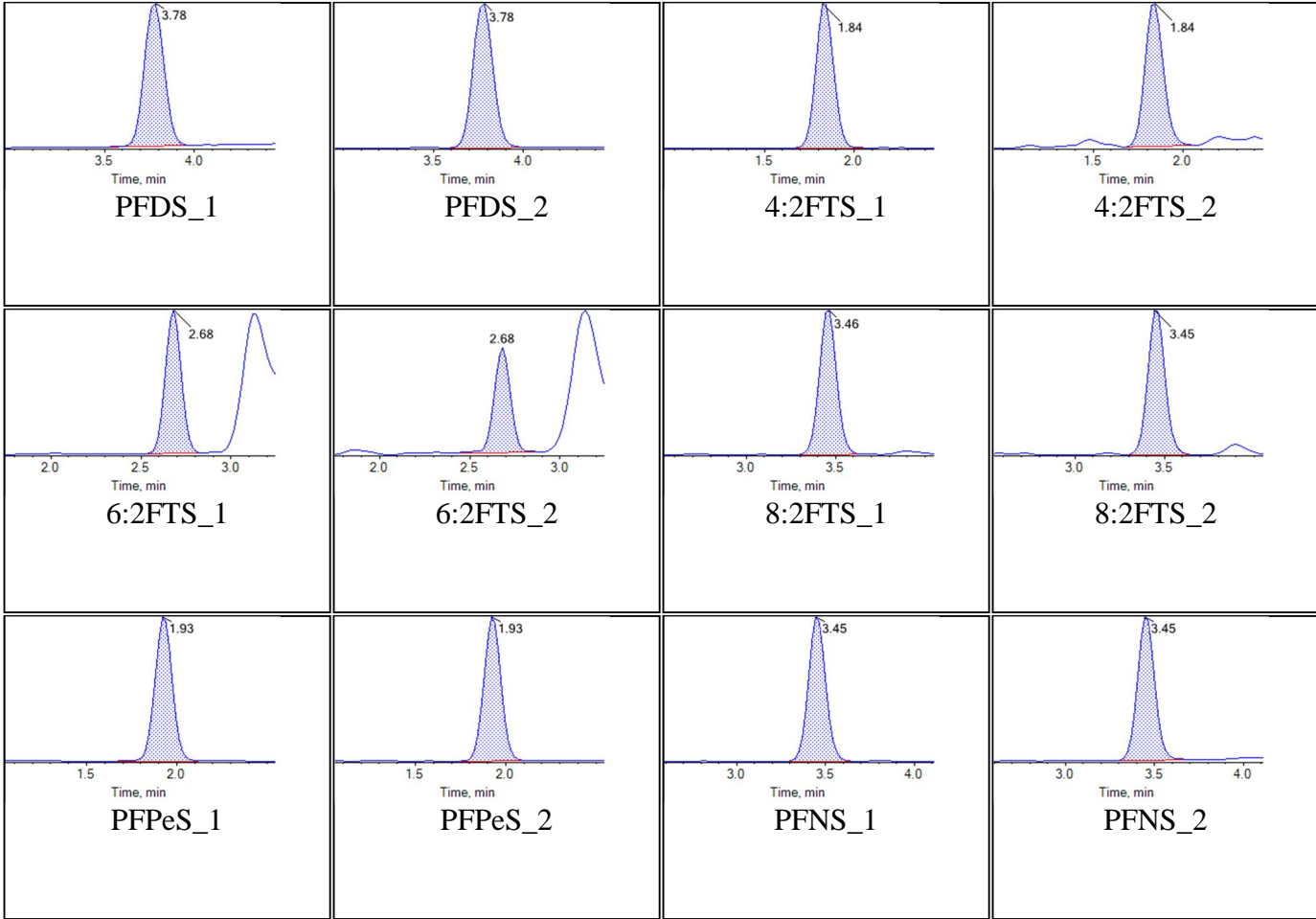
## Chromatograms

### Target Analytes:

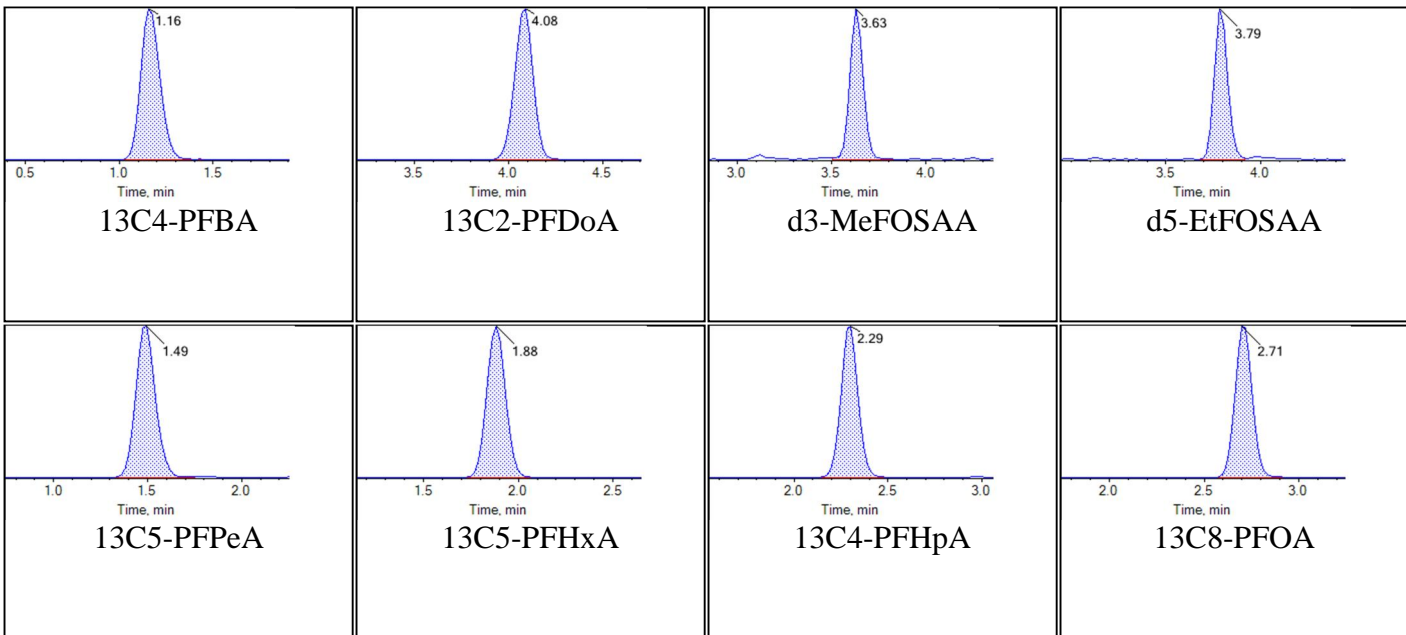


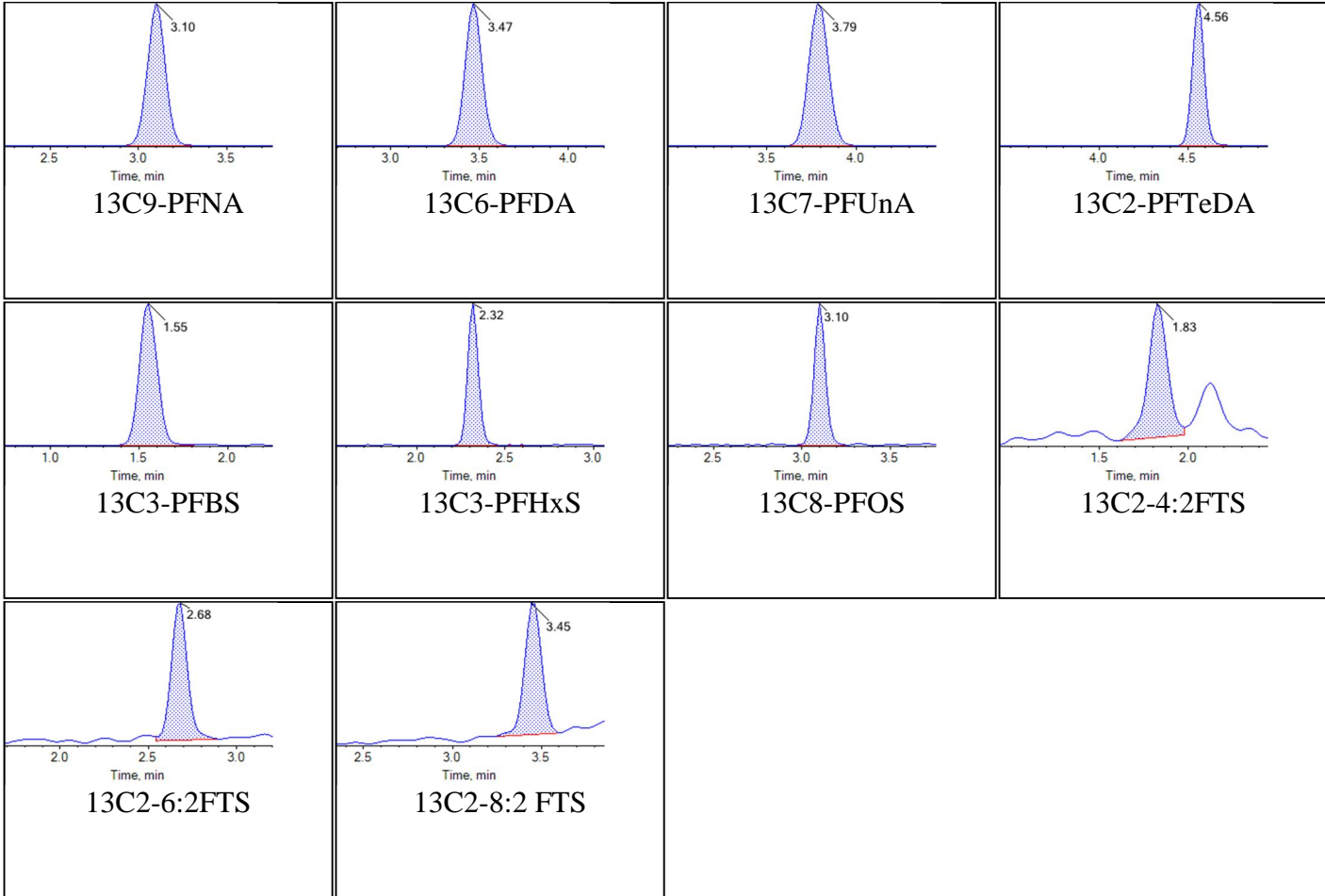






### Internal Standards:

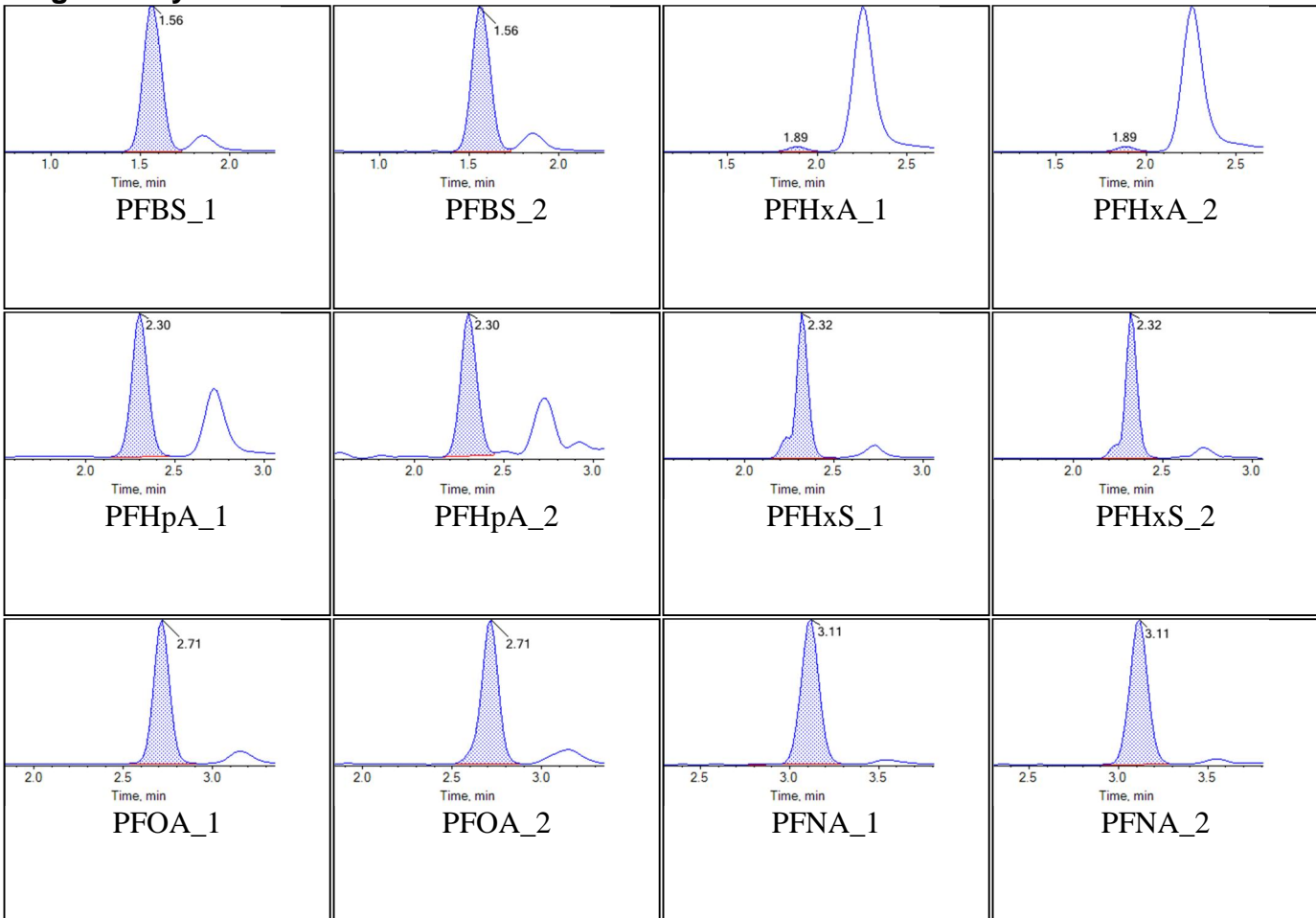


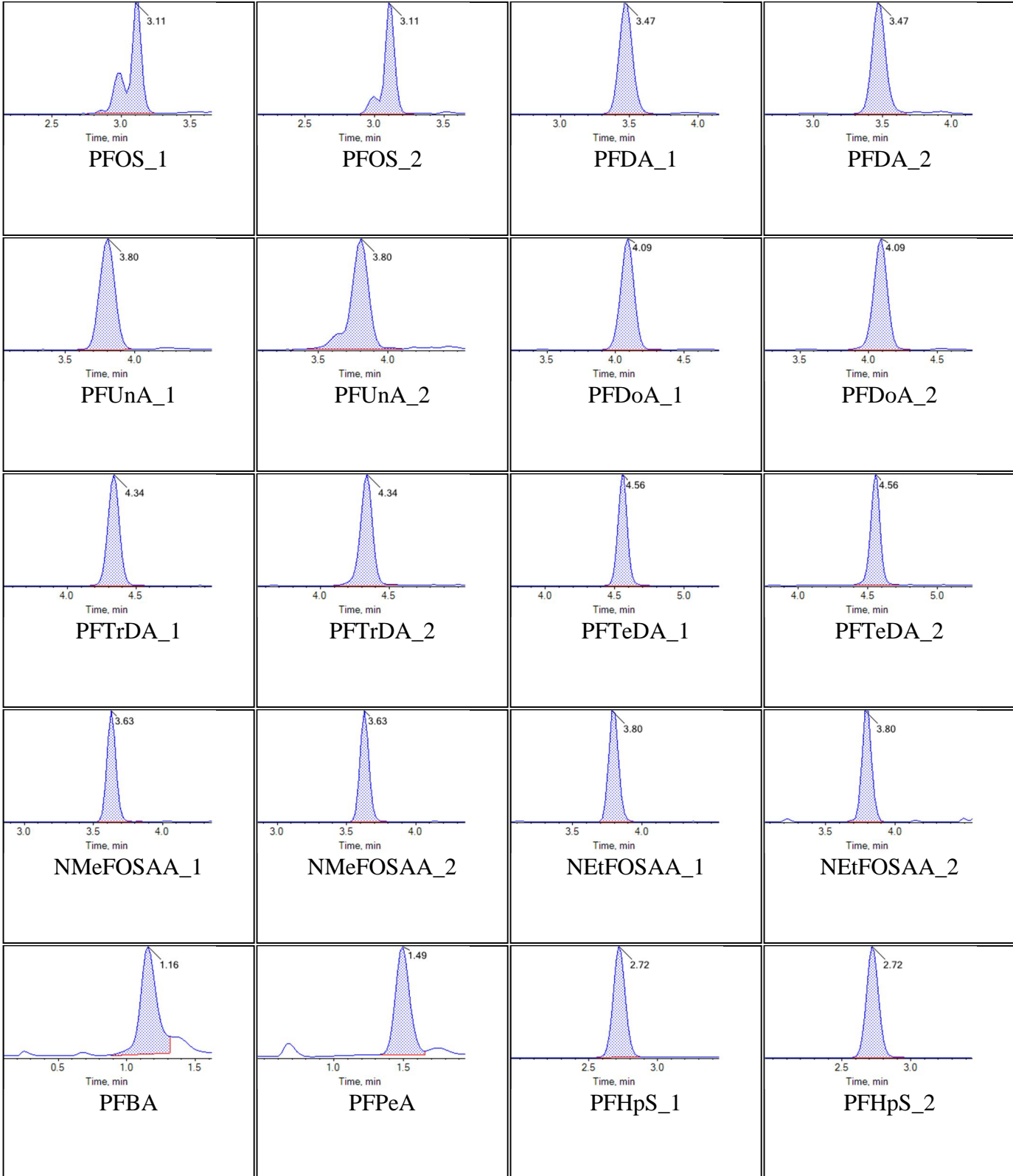


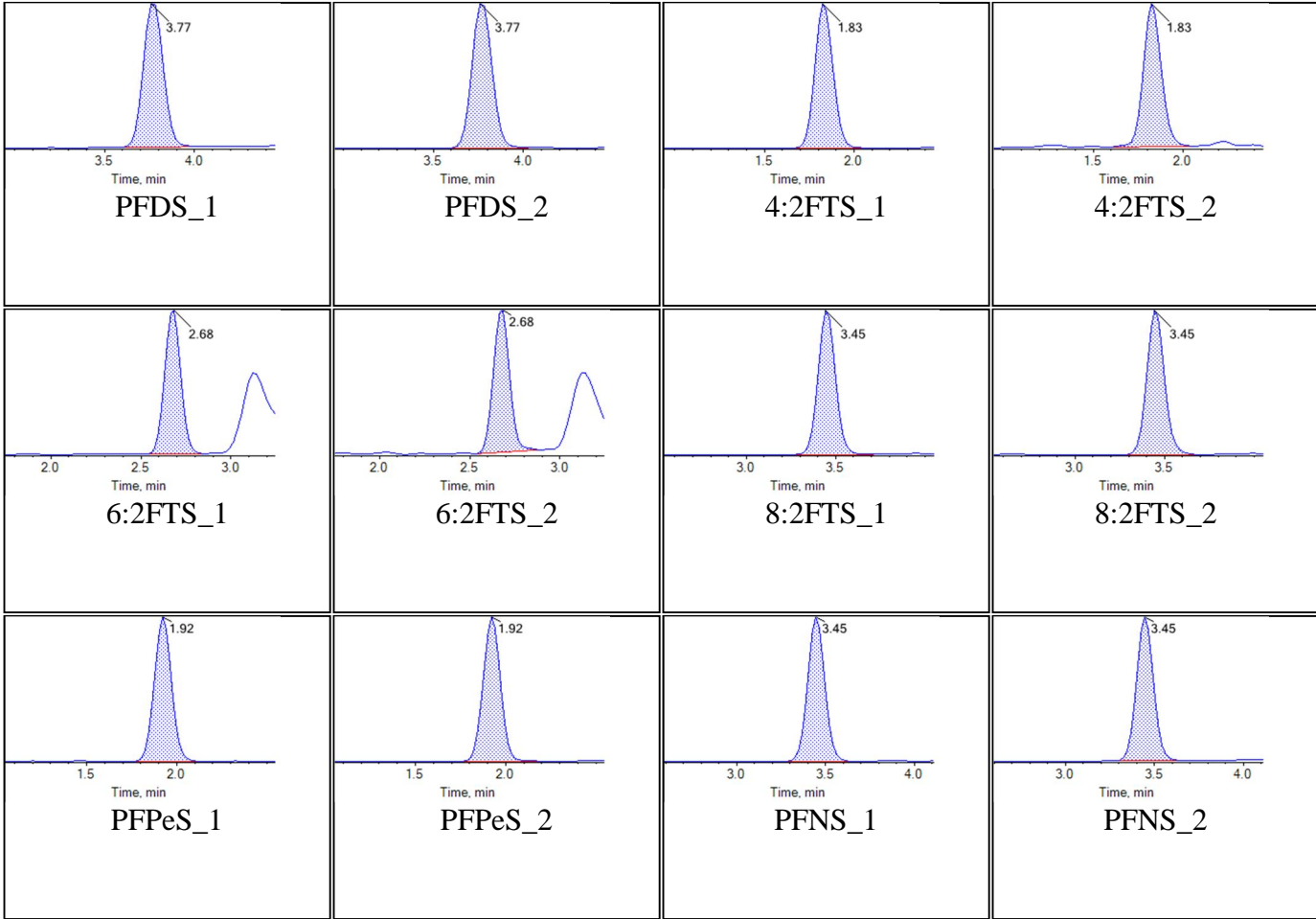
Sample Name	KB76	Injection Vial	5
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-17T20:19:32	Data File	Data18-0590_18-01588_18-0589.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Chromatograms

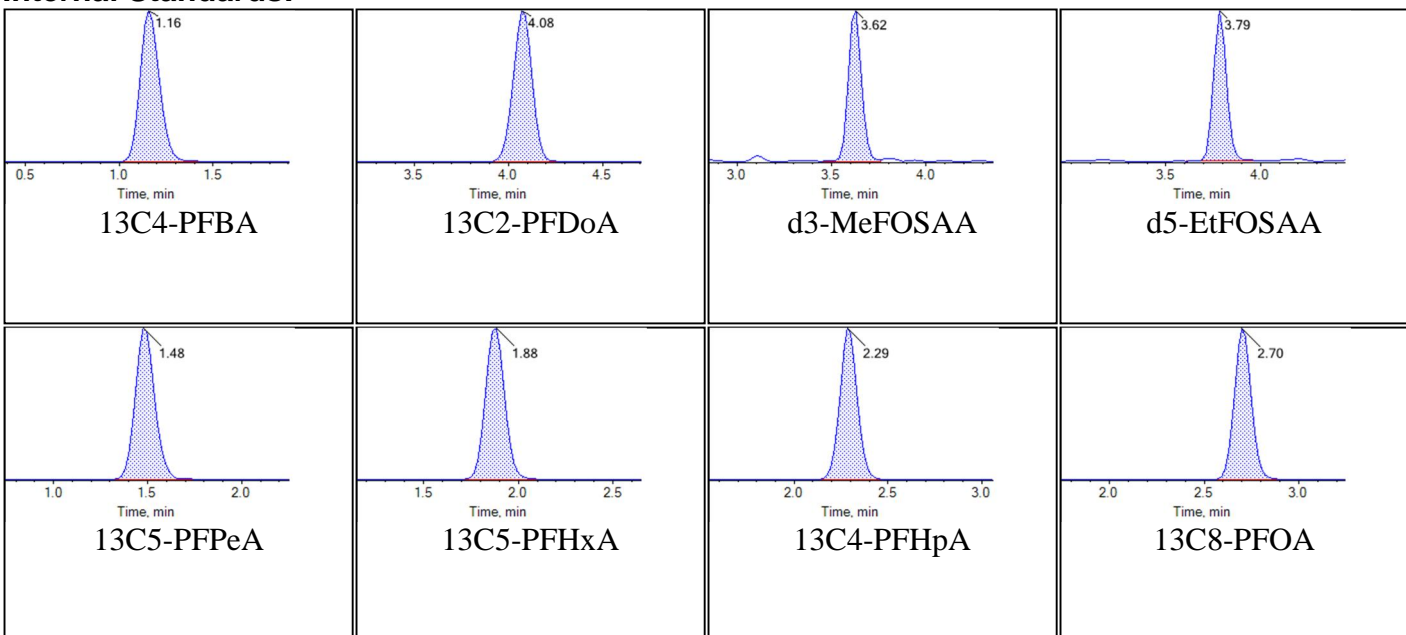
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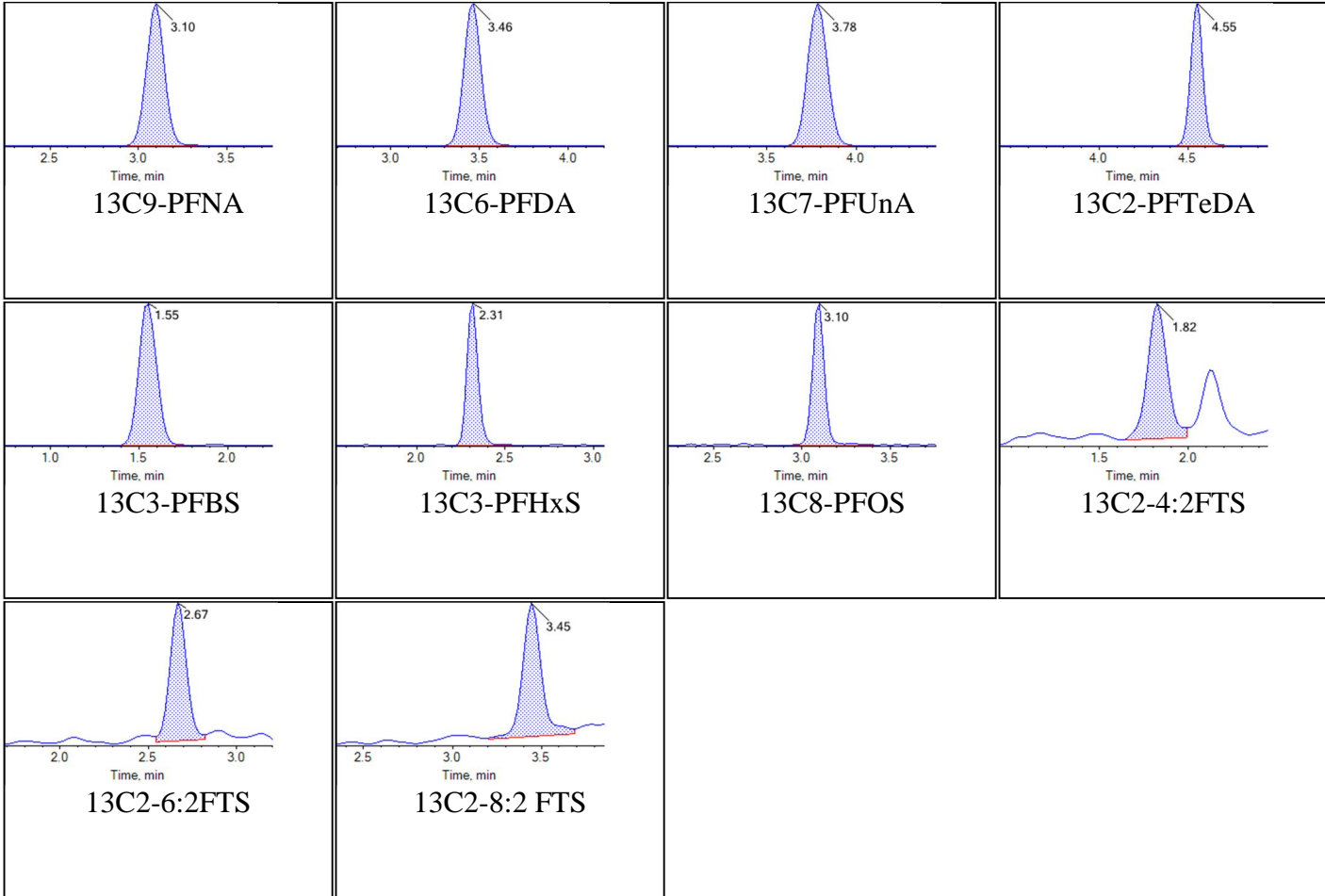






### Internal Standards:

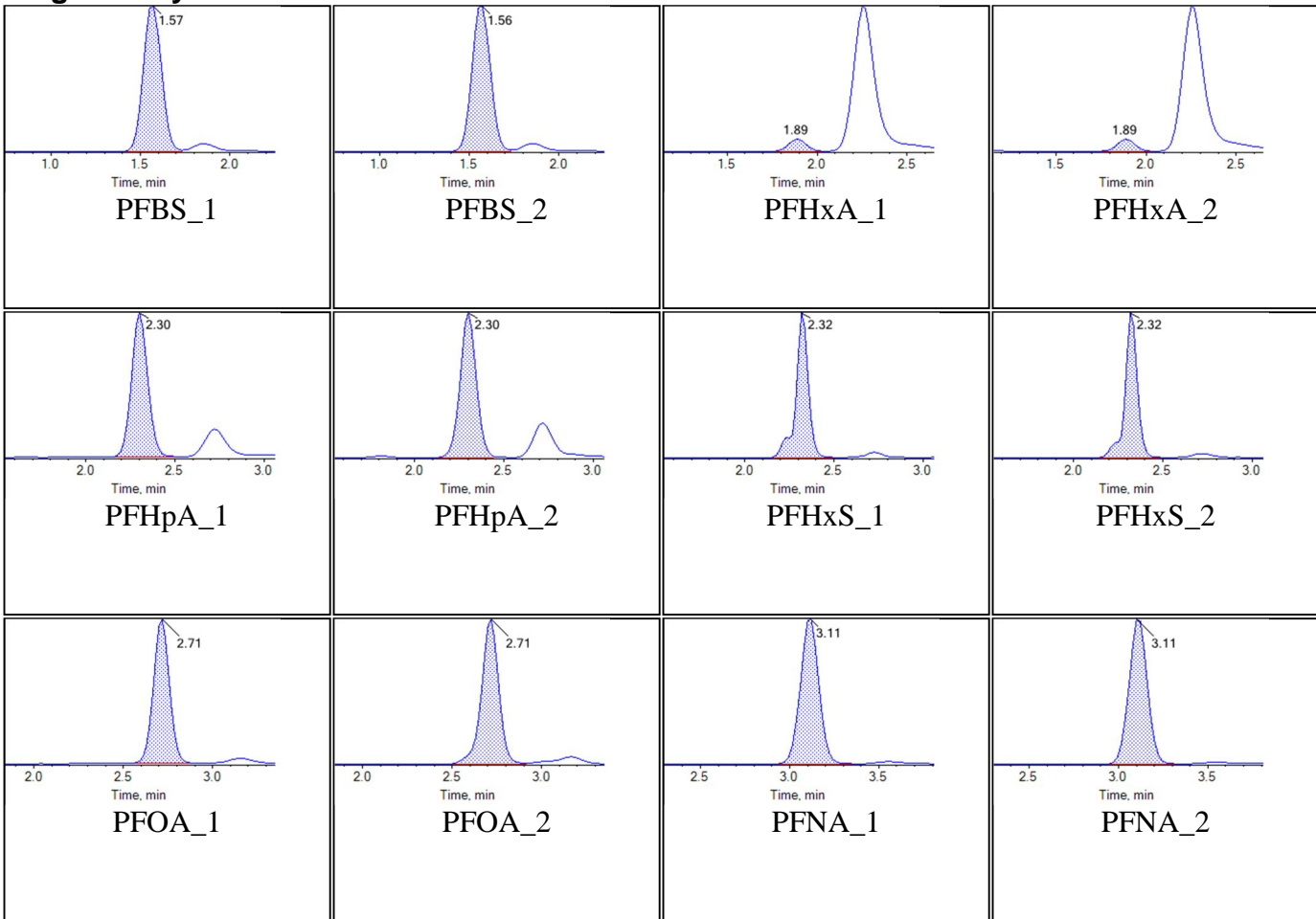


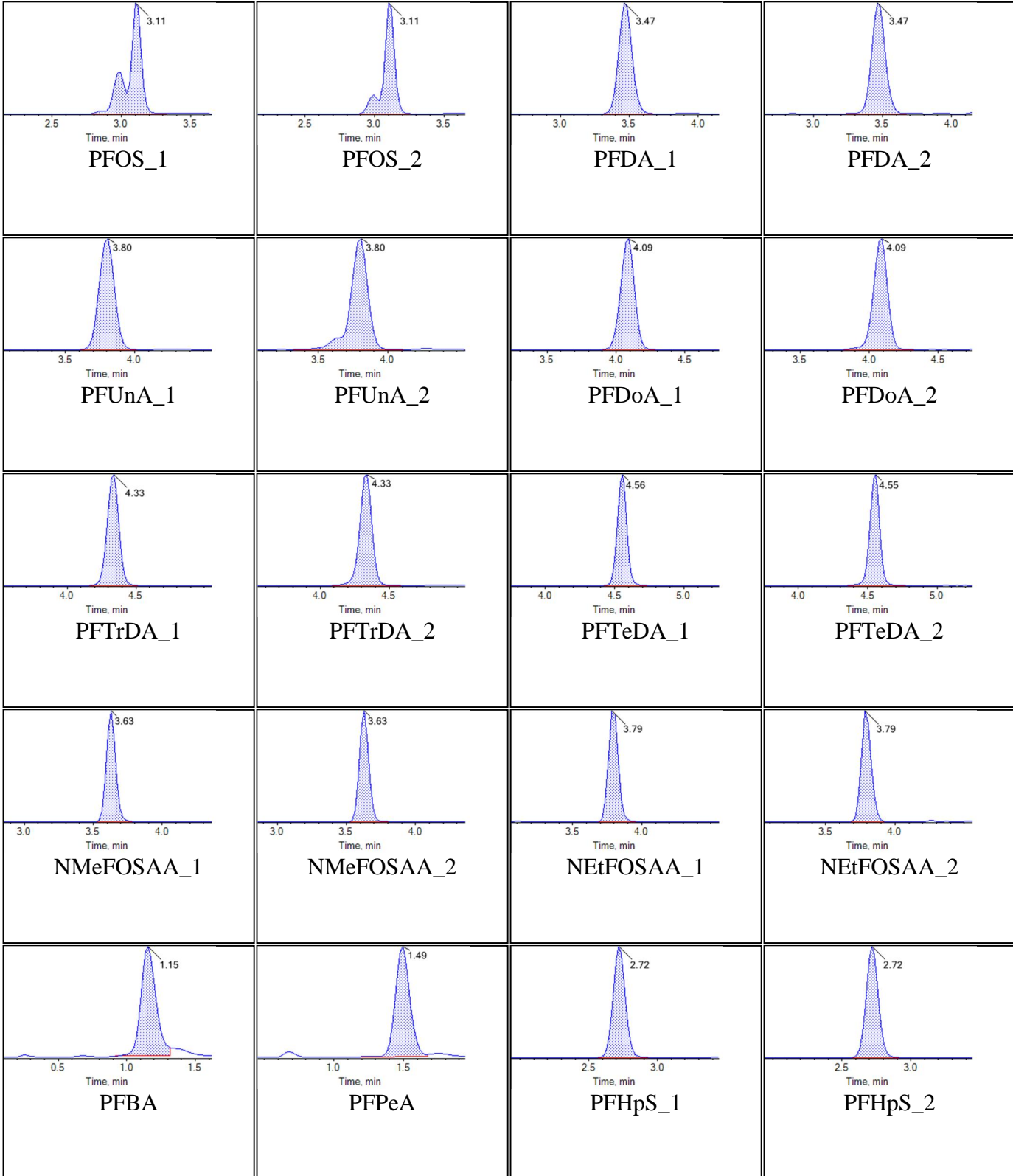


<b>Sample Name</b>	KB77	<b>Injection Vial</b>	6
<b>Sample ID</b>	L5	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:30:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



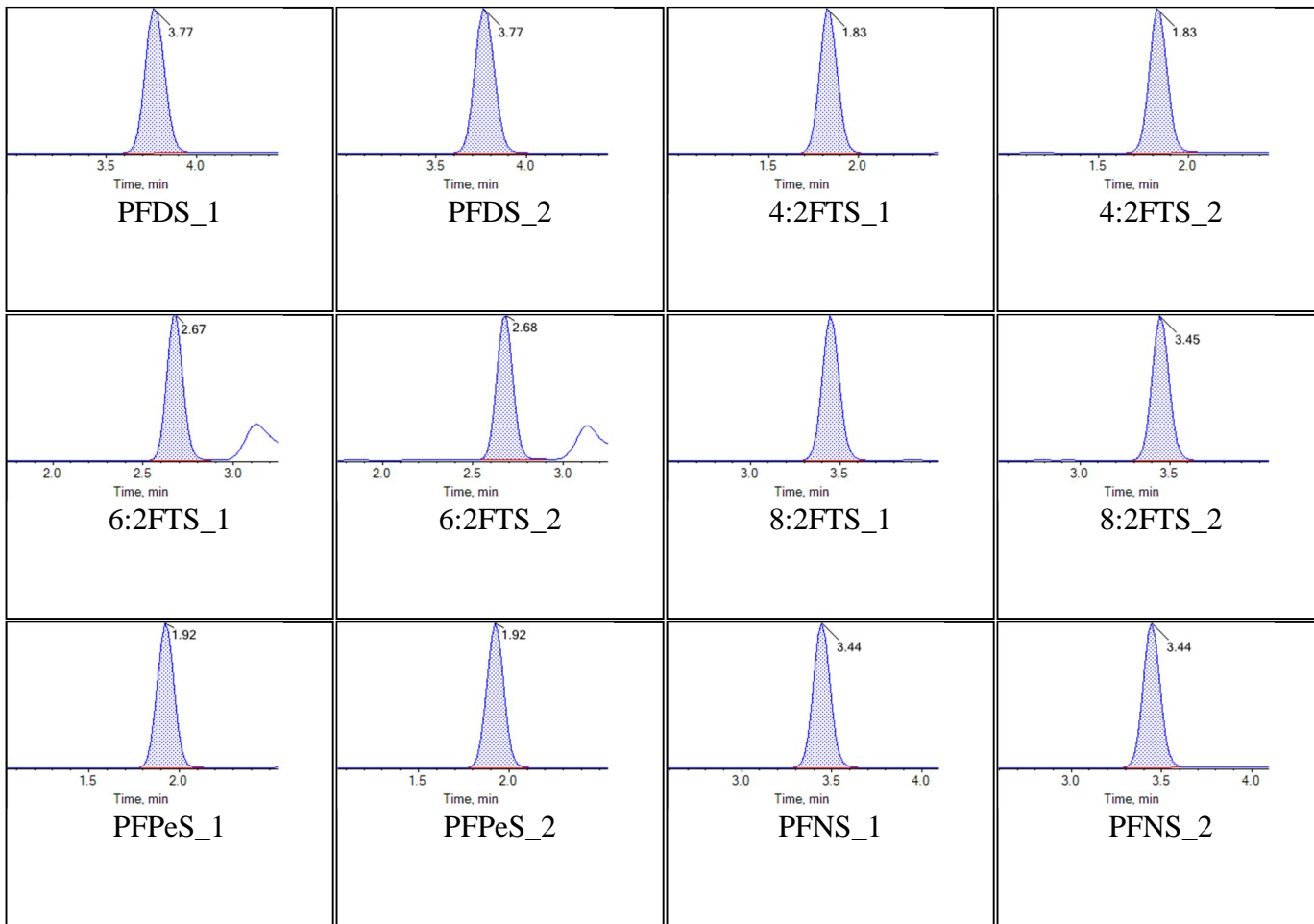




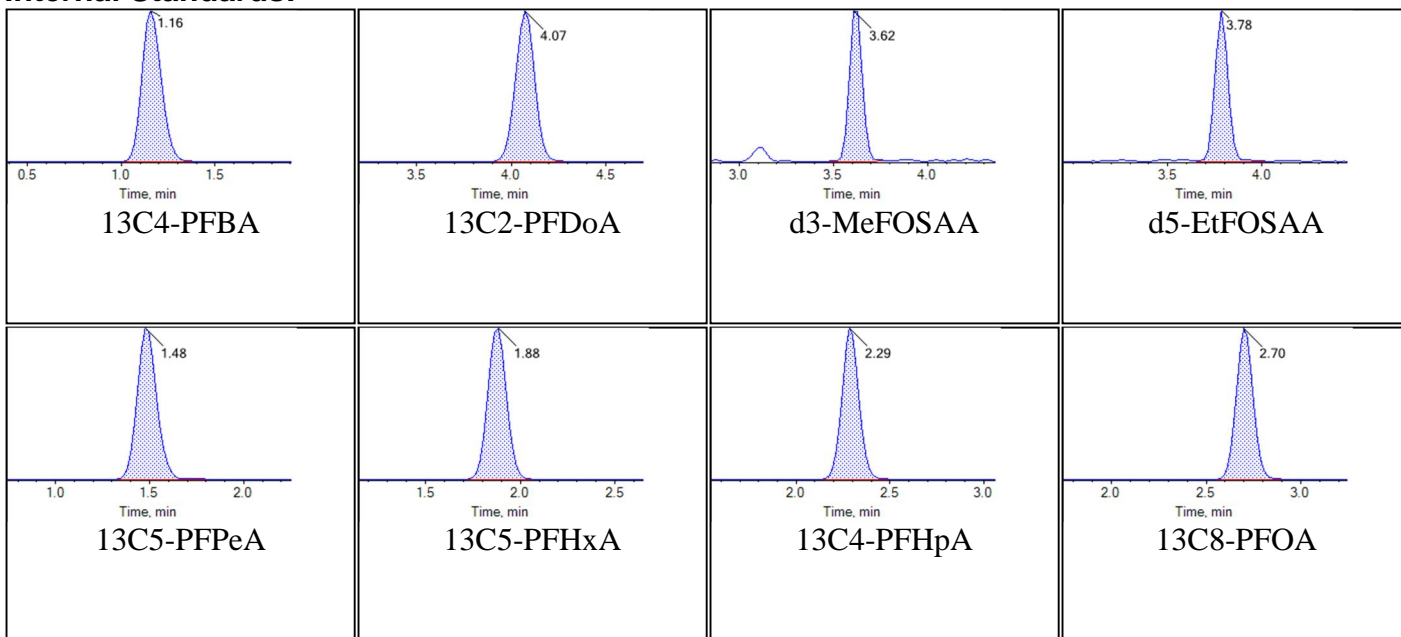


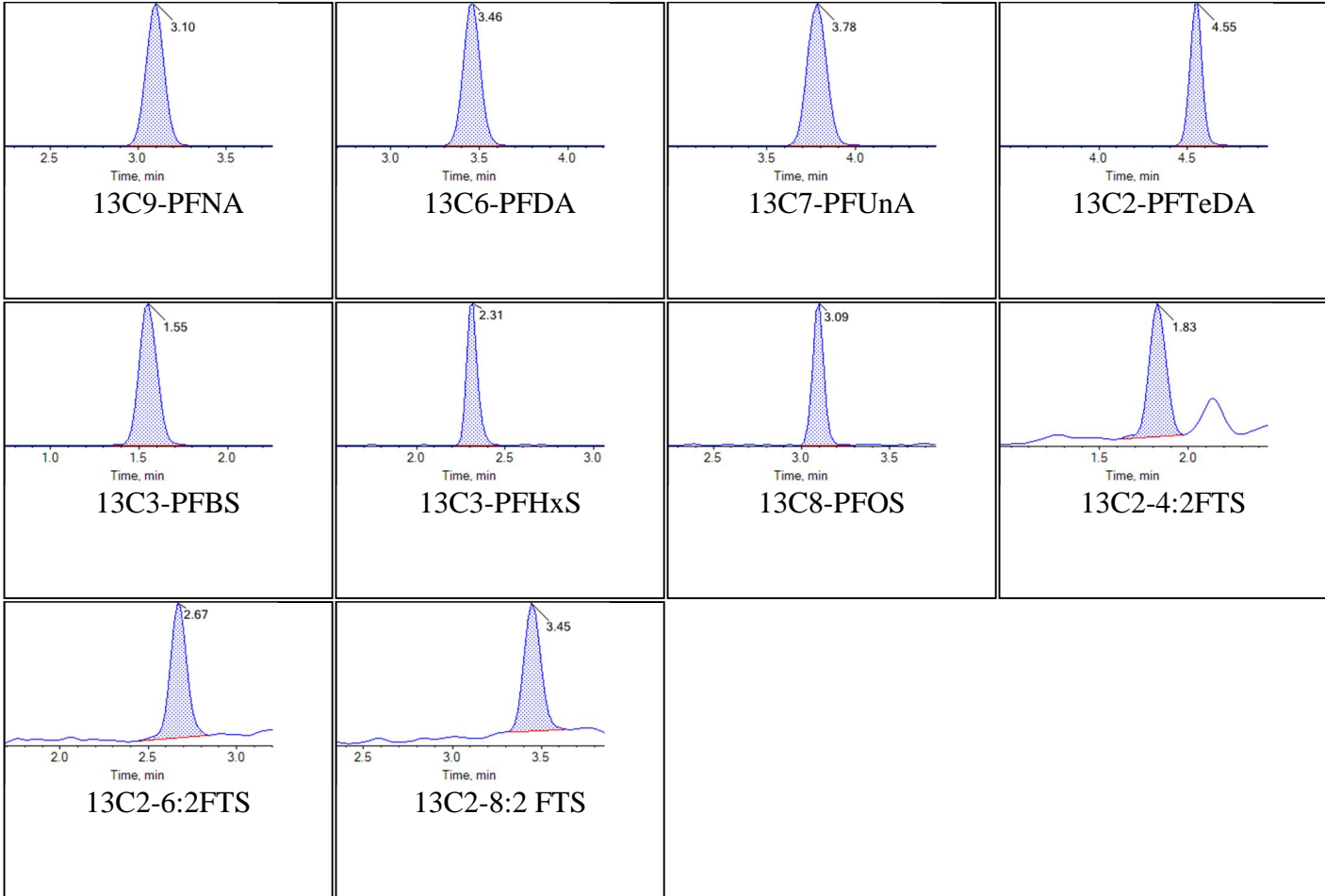
Chromatogram Report

Created with Analyst Reporter  
 Printed: 26/10/2018 1:29:11 PM



Internal Standards:

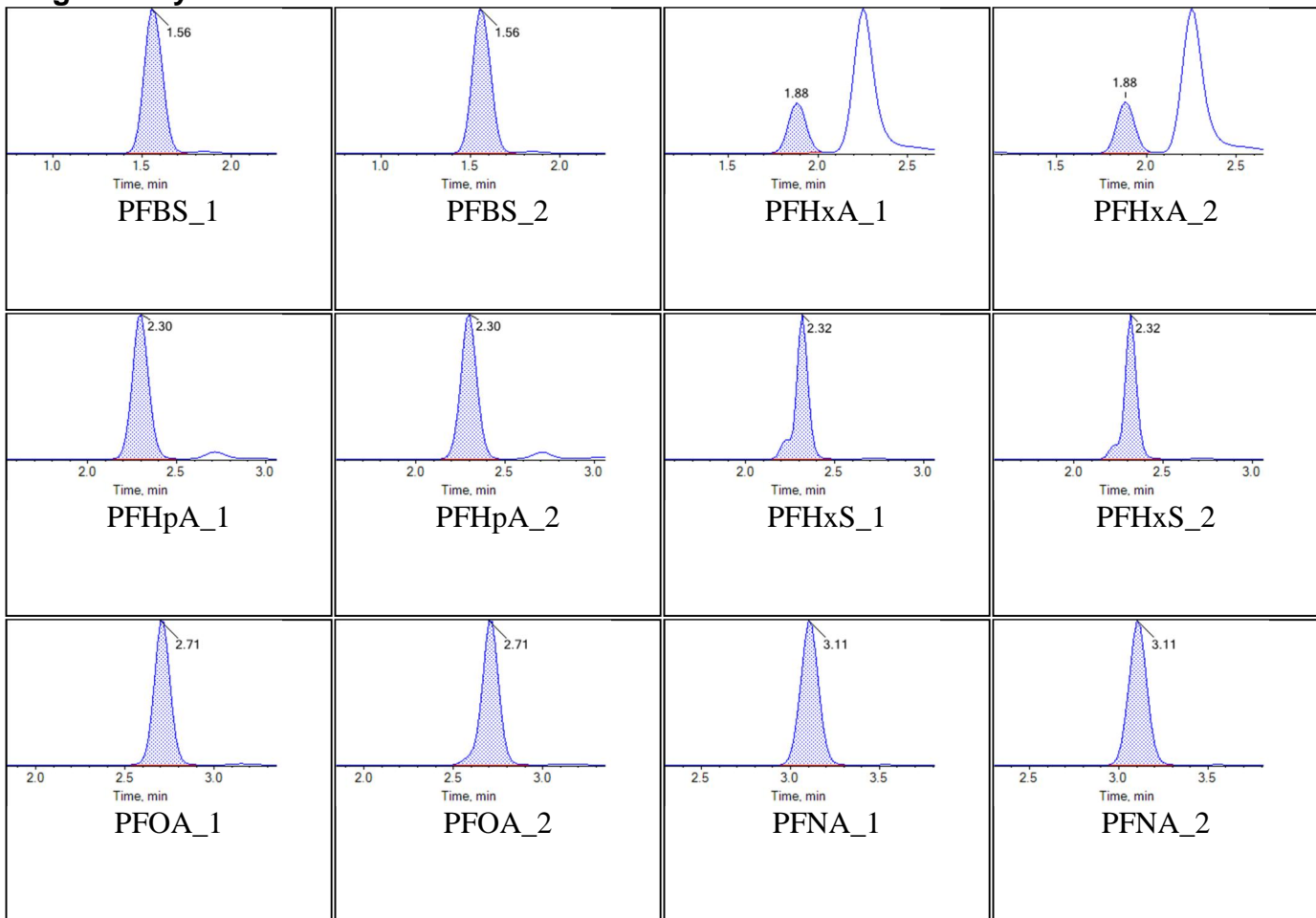


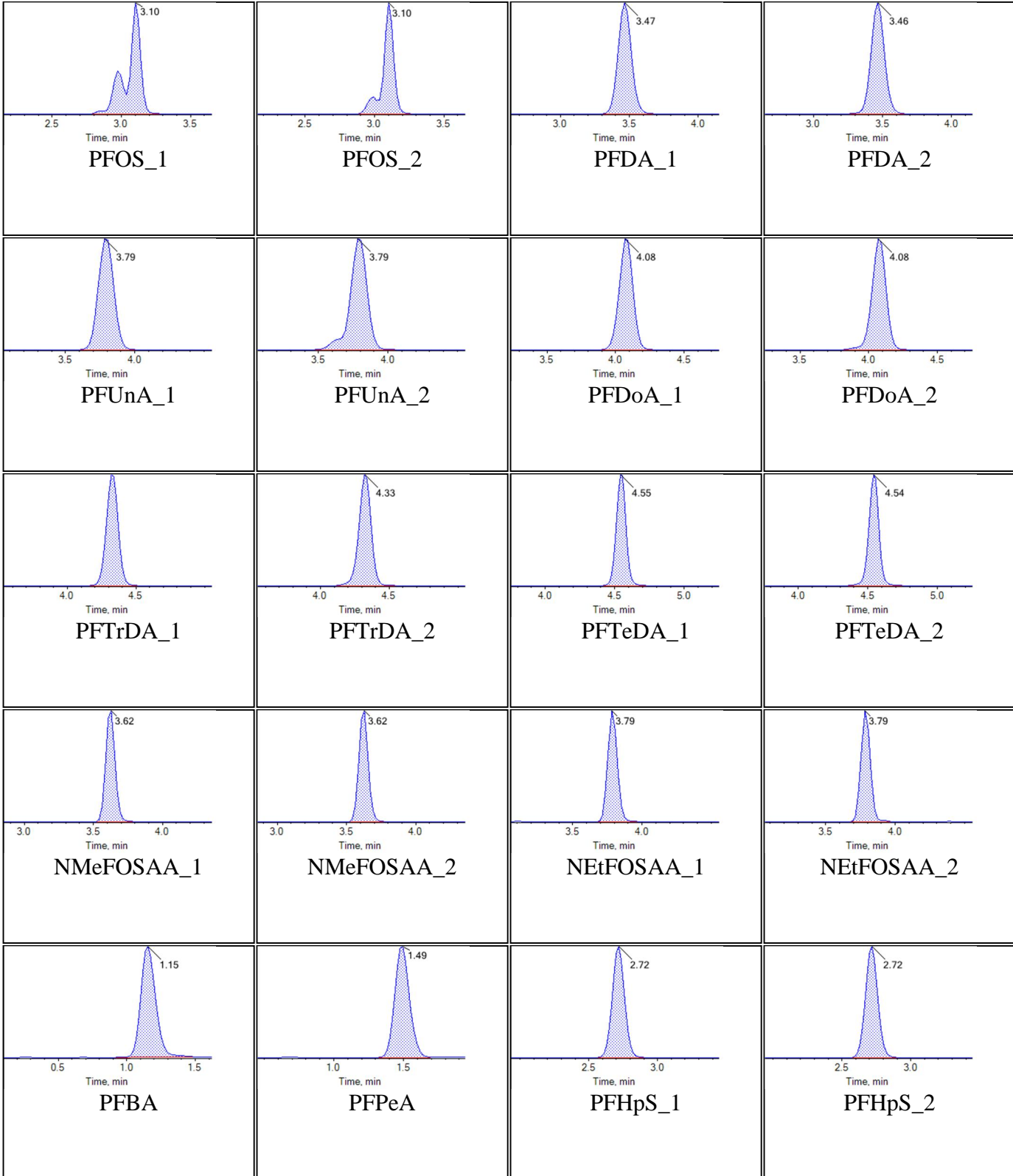


<b>Sample Name</b>	KB78	<b>Injection Vial</b>	7
<b>Sample ID</b>	L6	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:41:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:

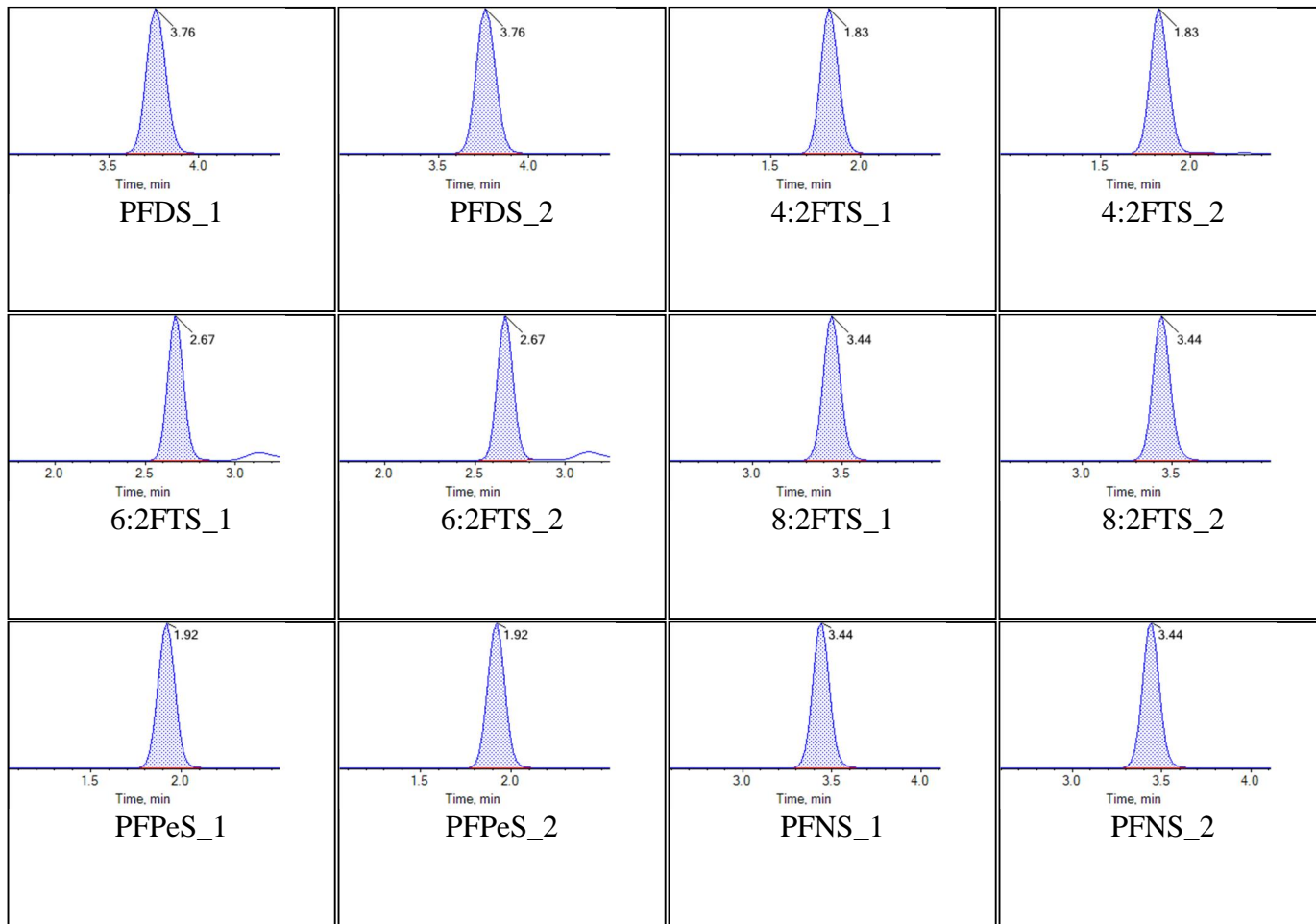




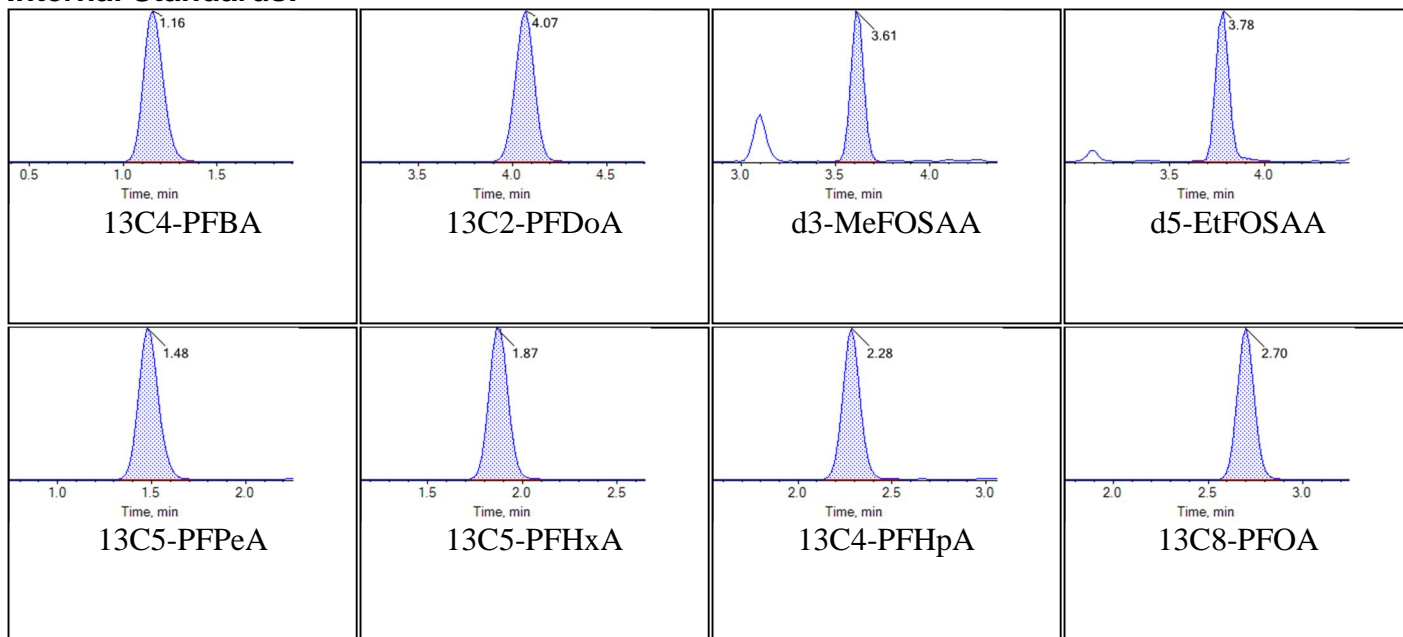


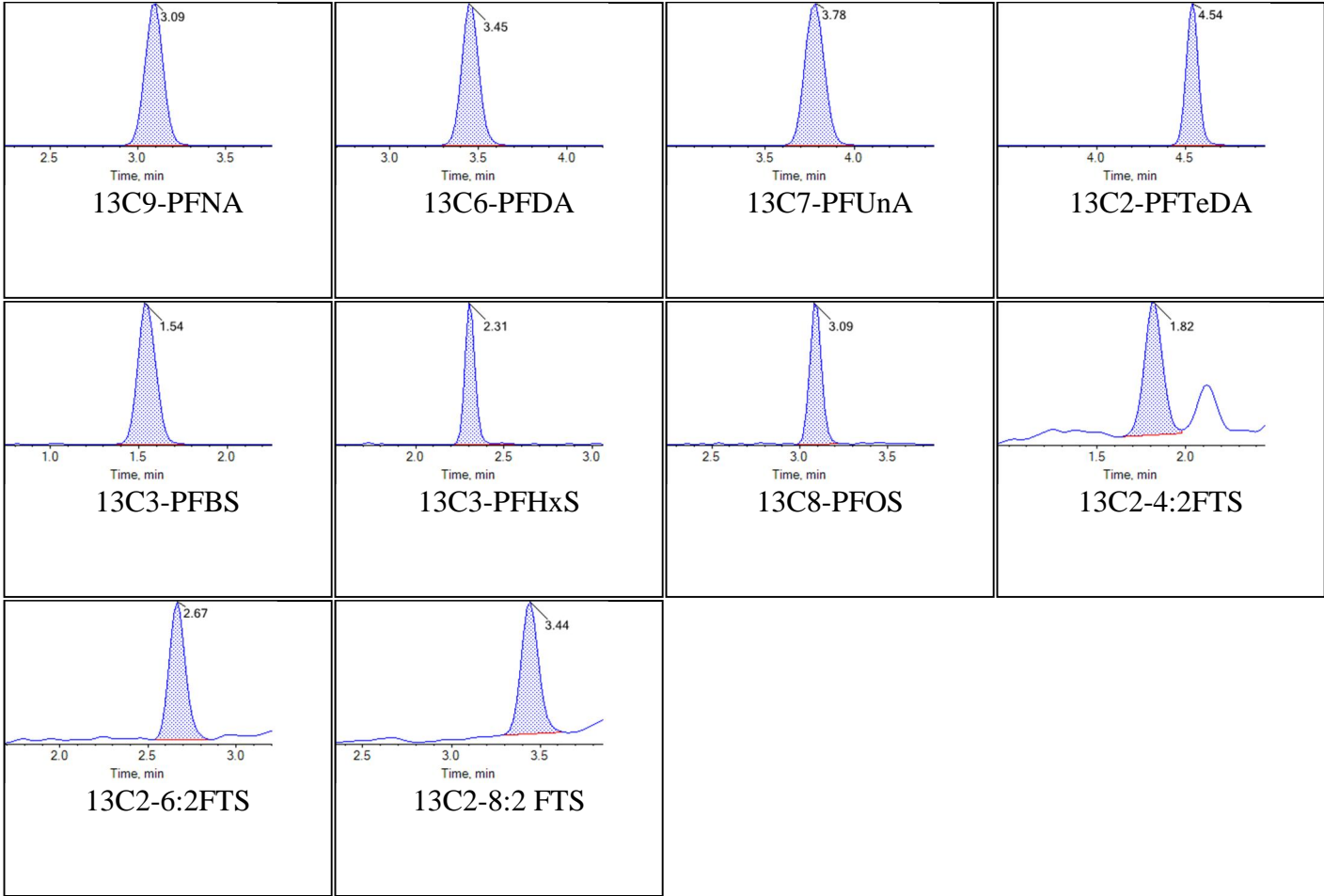
Chromatogram Report

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Internal Standards:

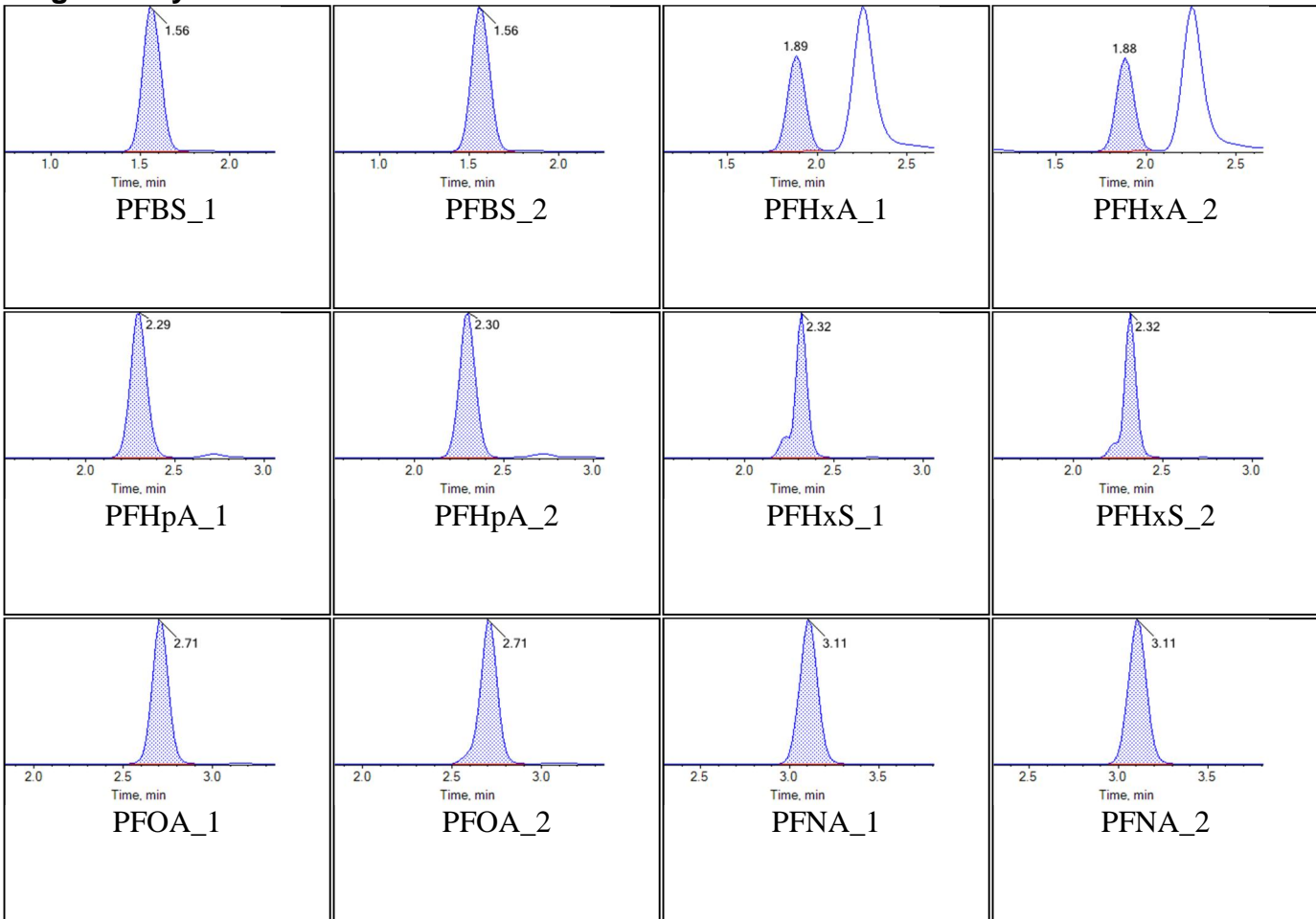


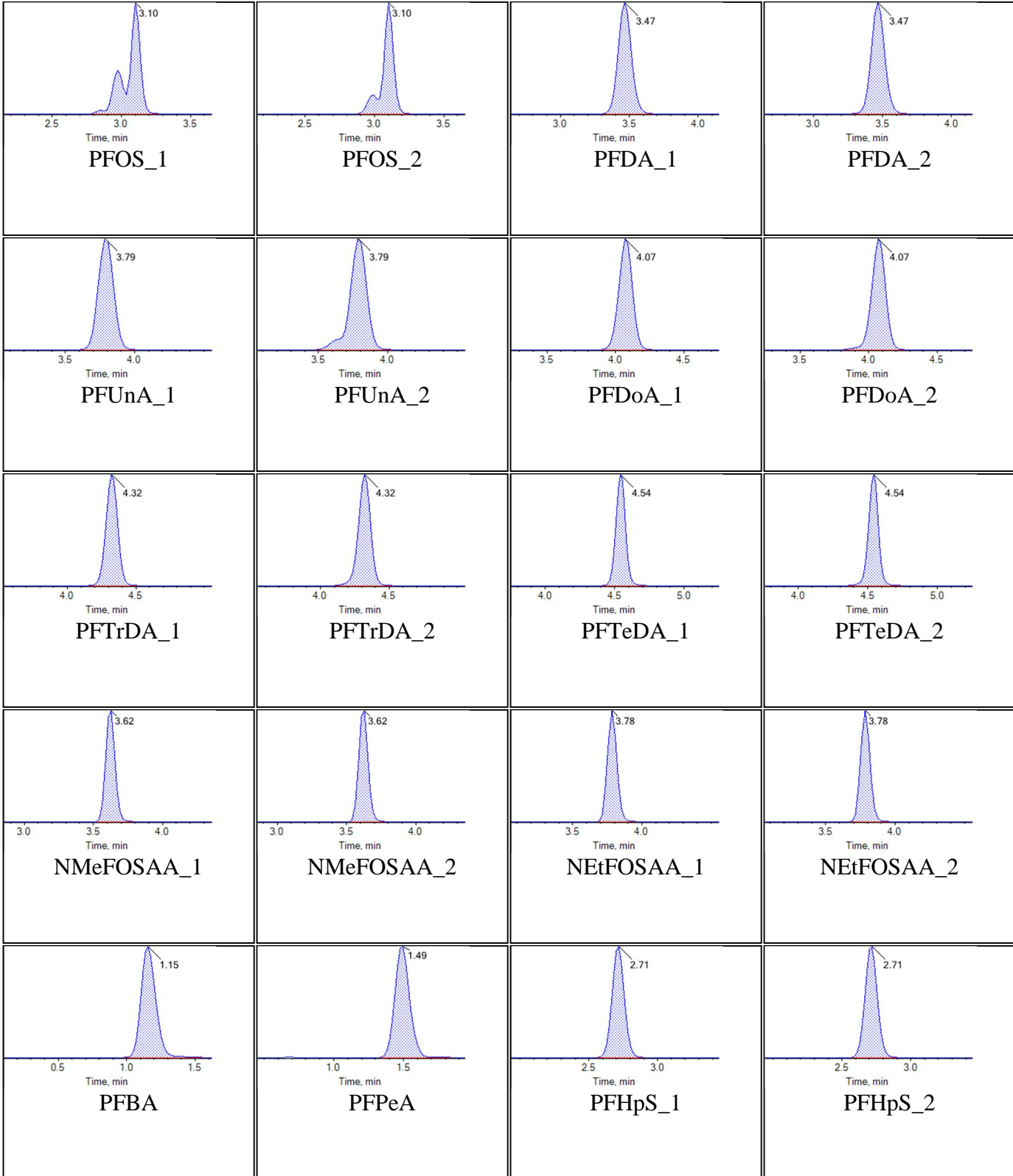


<b>Sample Name</b>	KB79	<b>Injection Vial</b>	8
<b>Sample ID</b>	L7	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:52:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

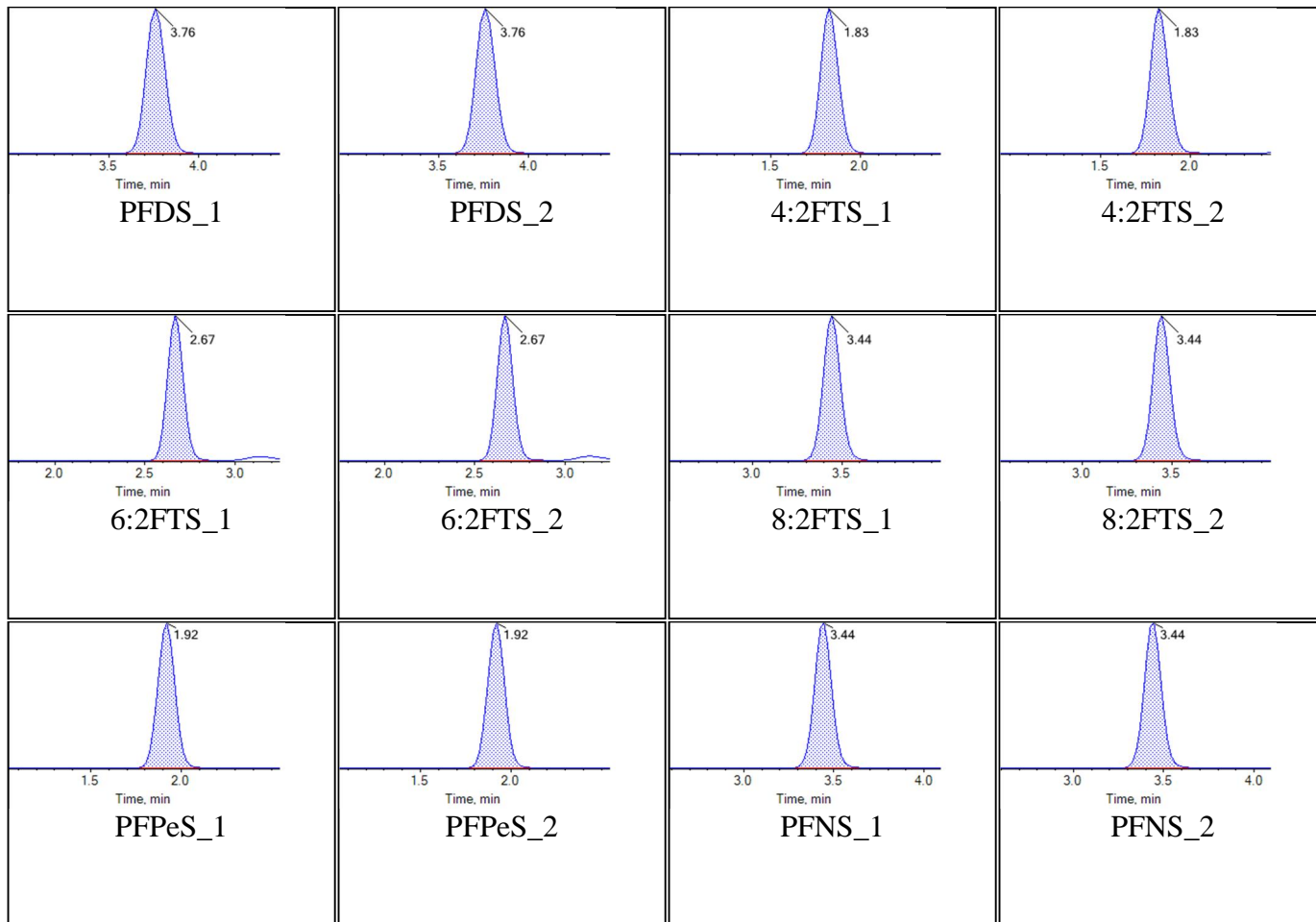
## Chromatograms

### Target Analytes:

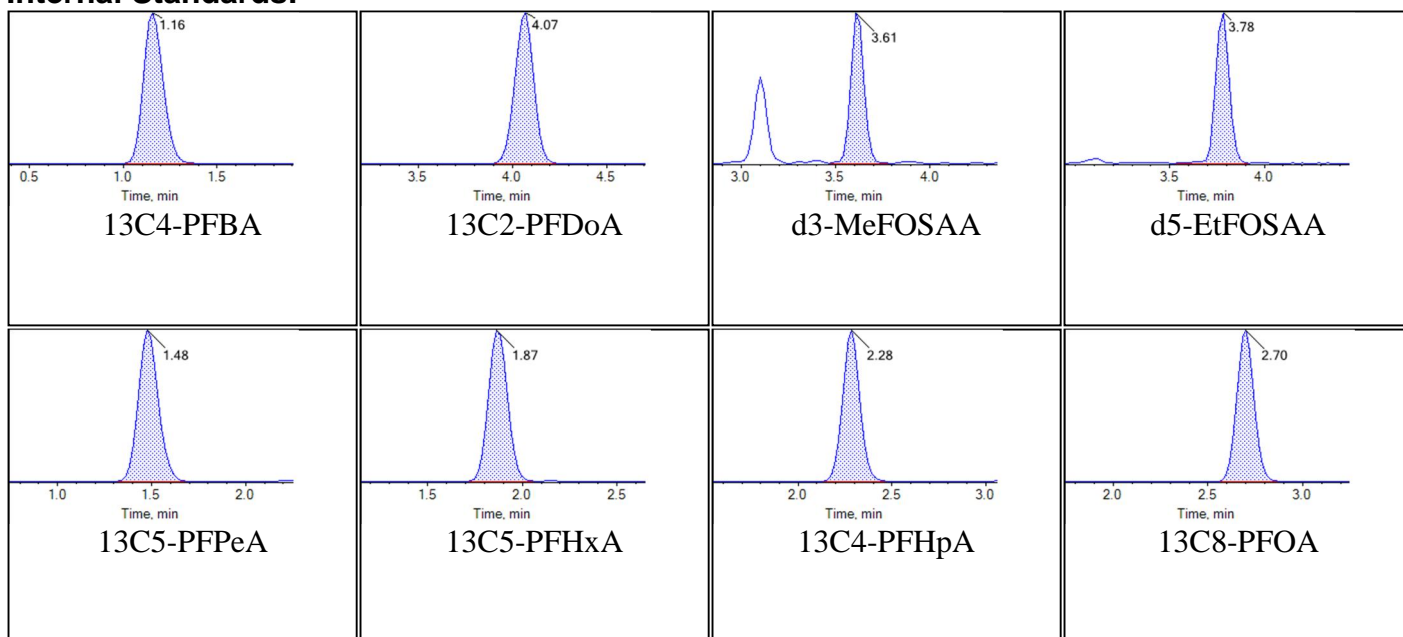


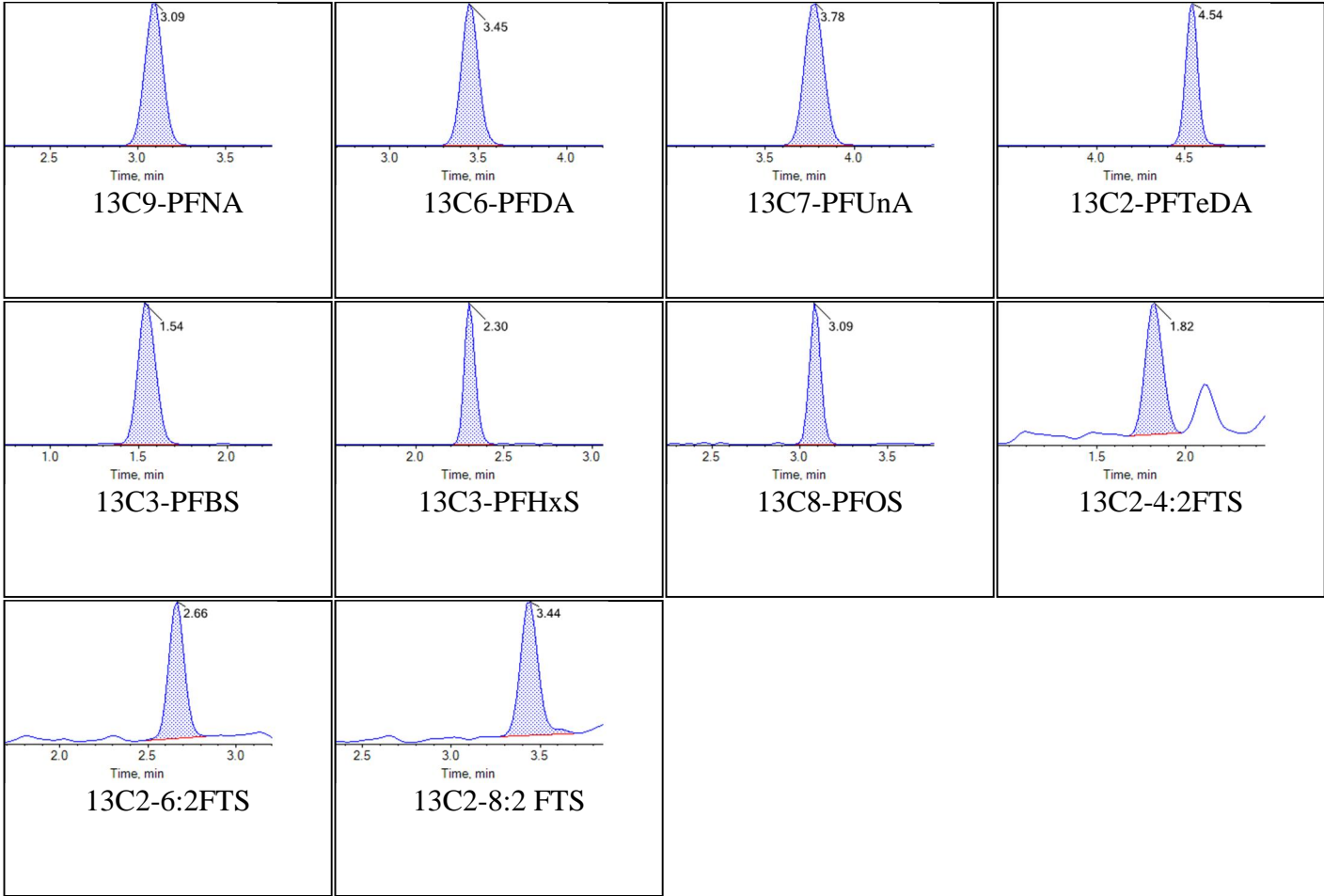






### Internal Standards:

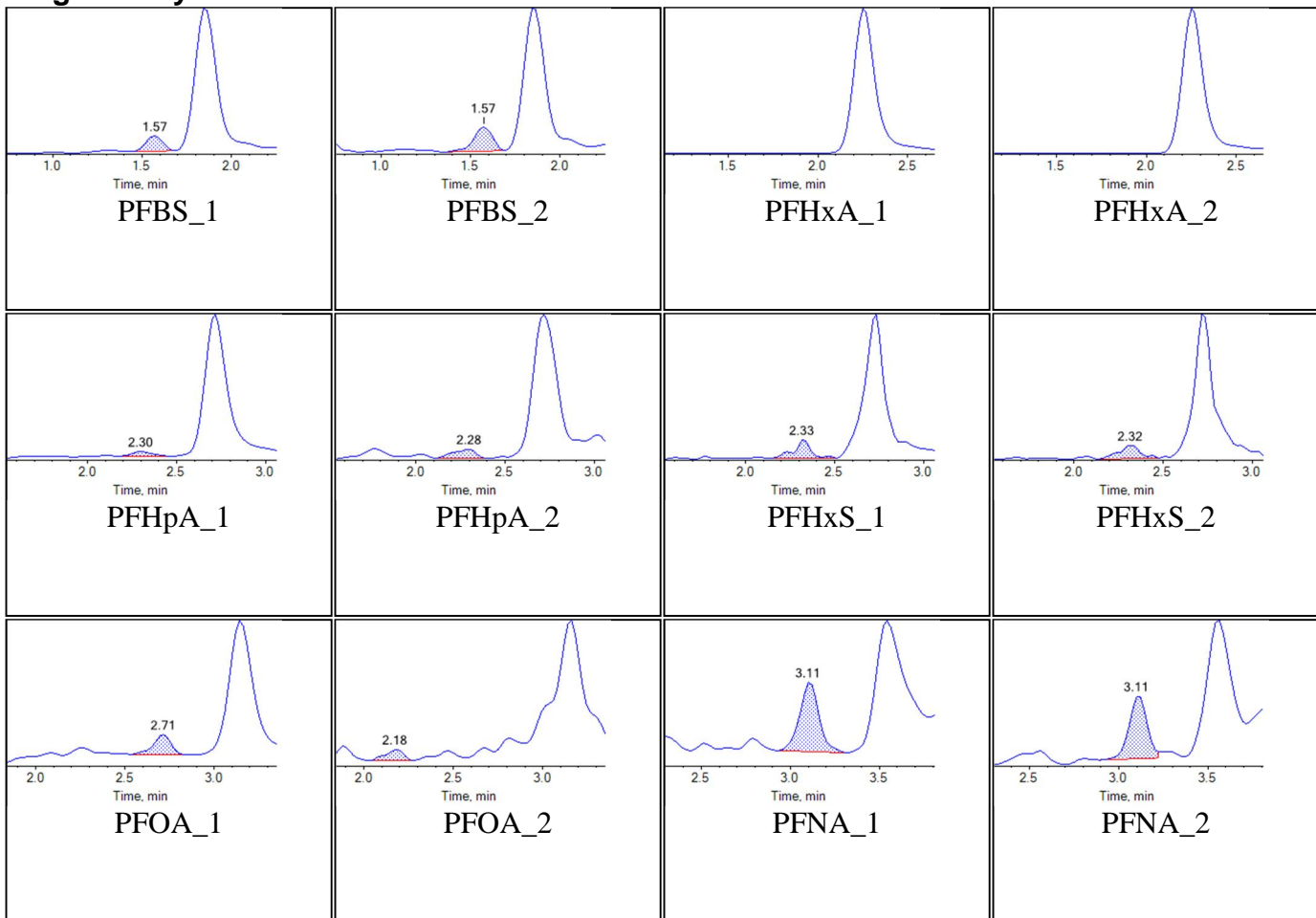


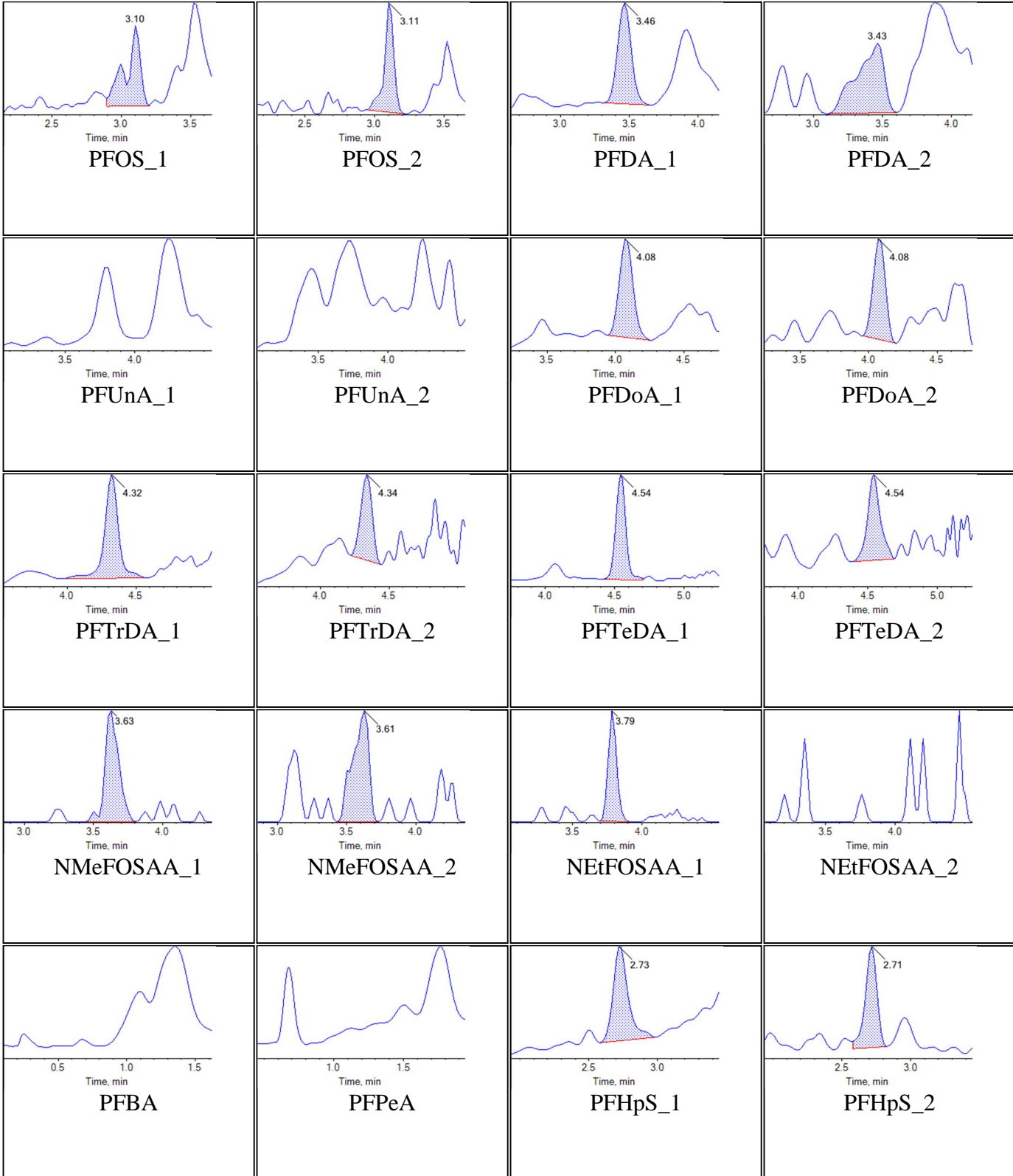


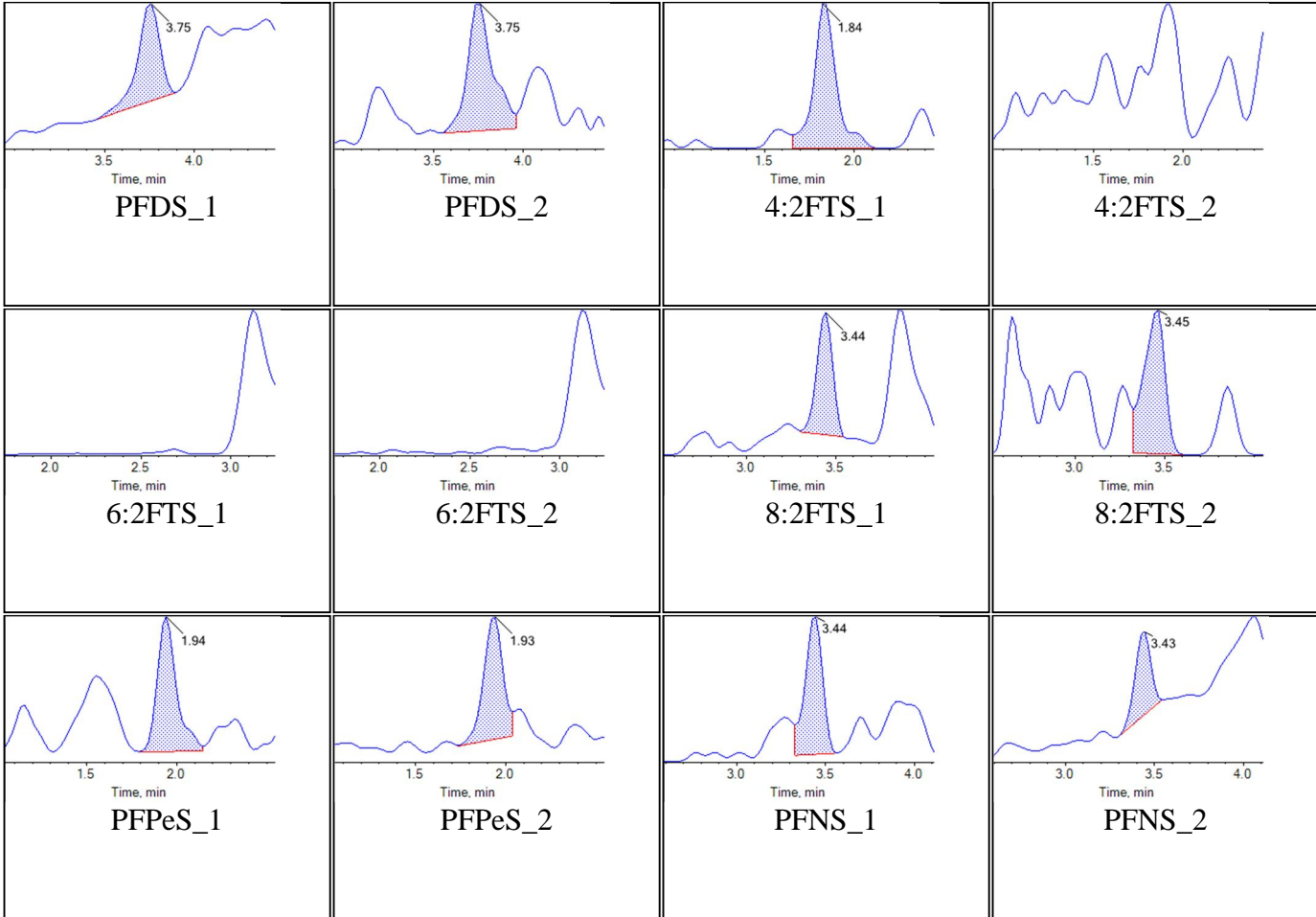
<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	9
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:02:57	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Chromatograms

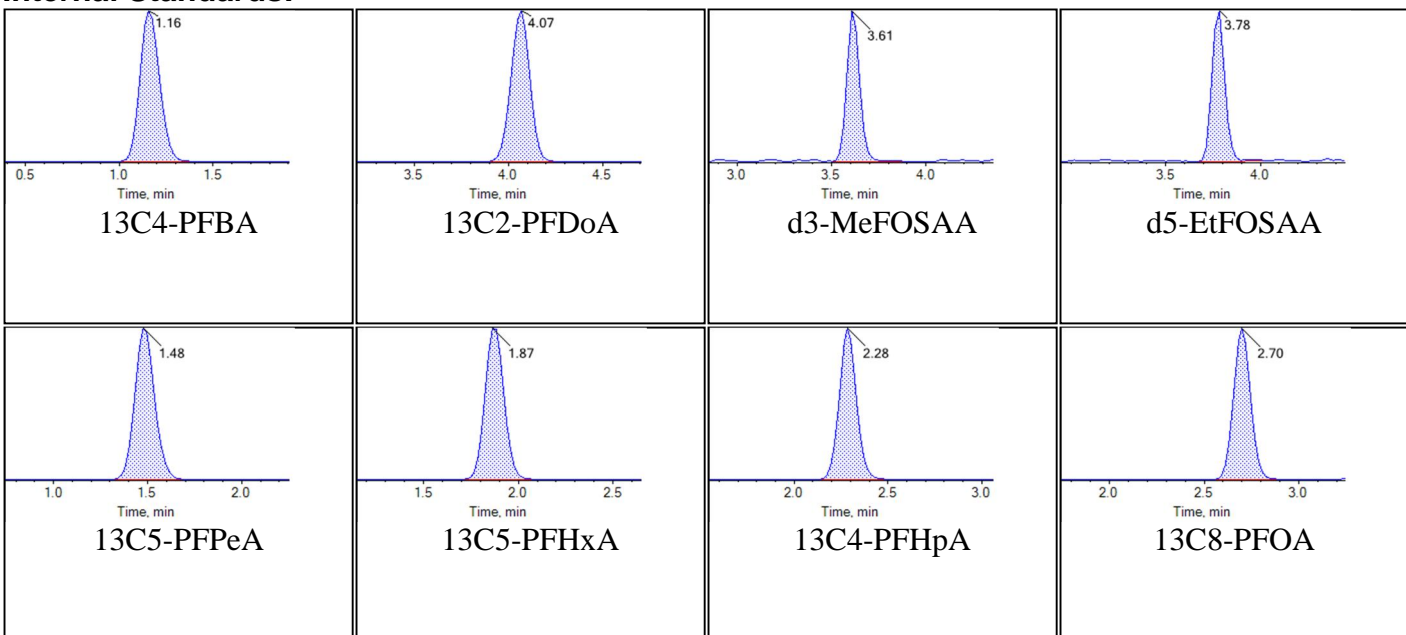
### Target Analytes:

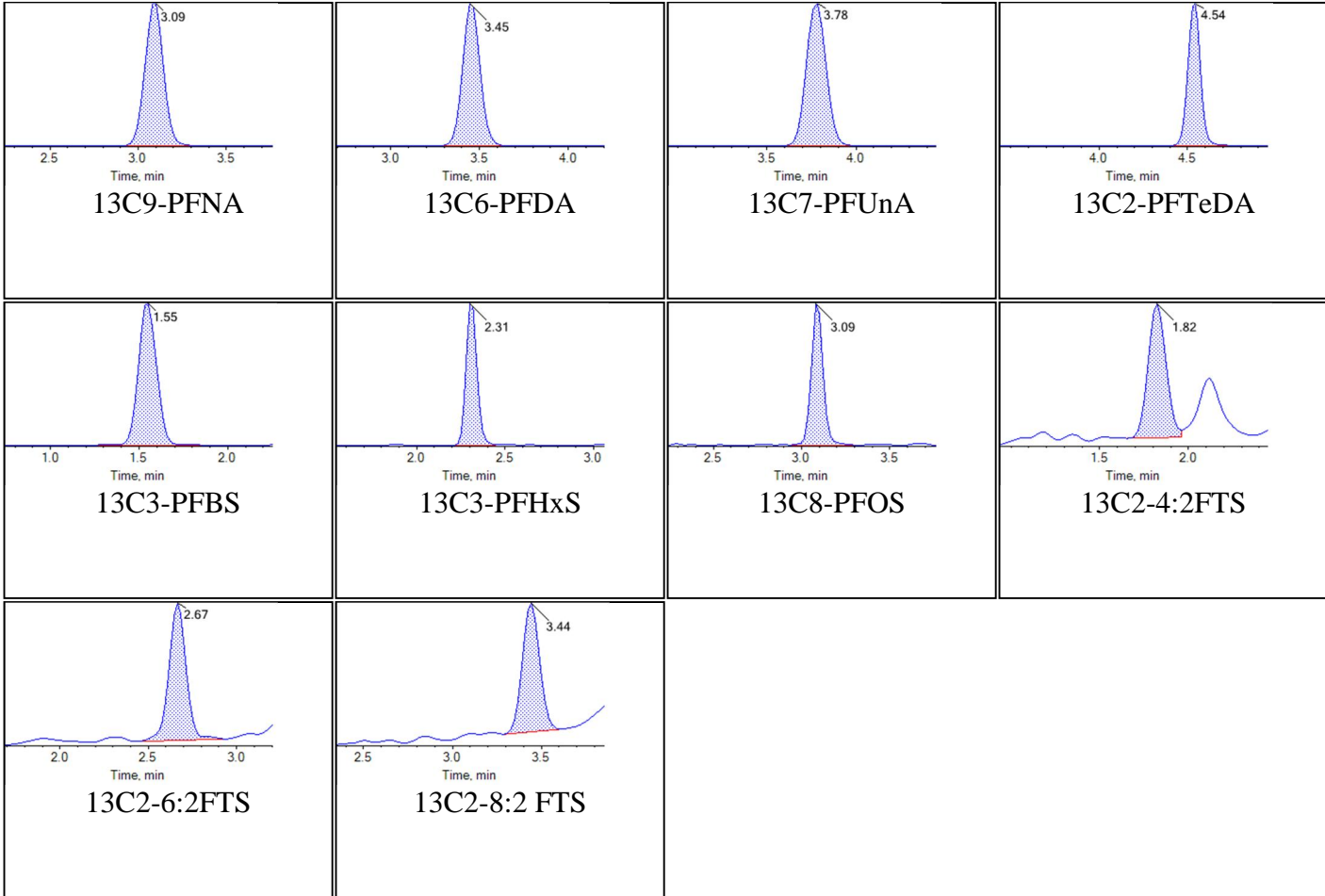






### Internal Standards:

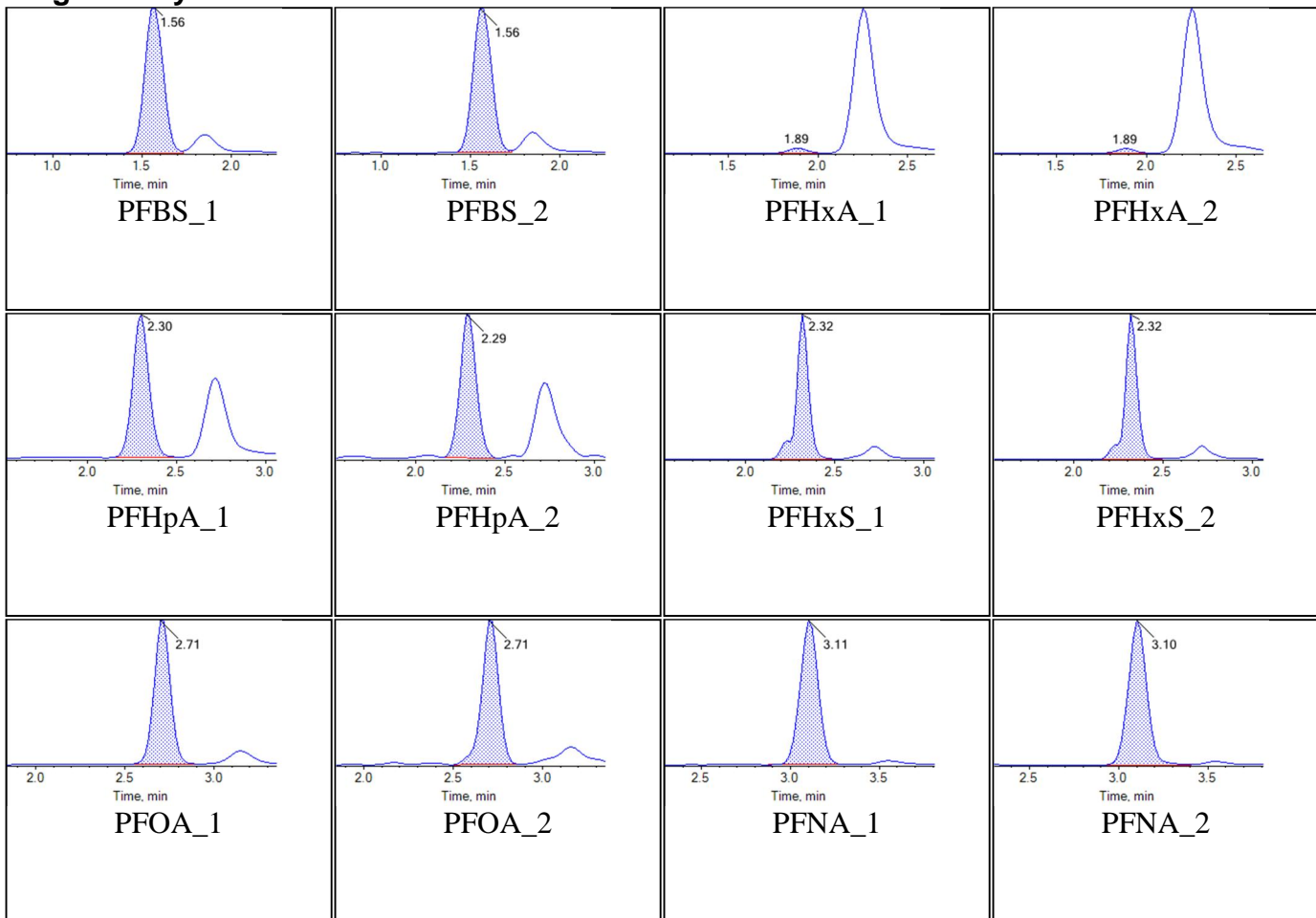




<b>Sample Name</b>	KB81 ICC	<b>Injection Vial</b>	10
<b>Sample ID</b>	ICC	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:13:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Chromatograms

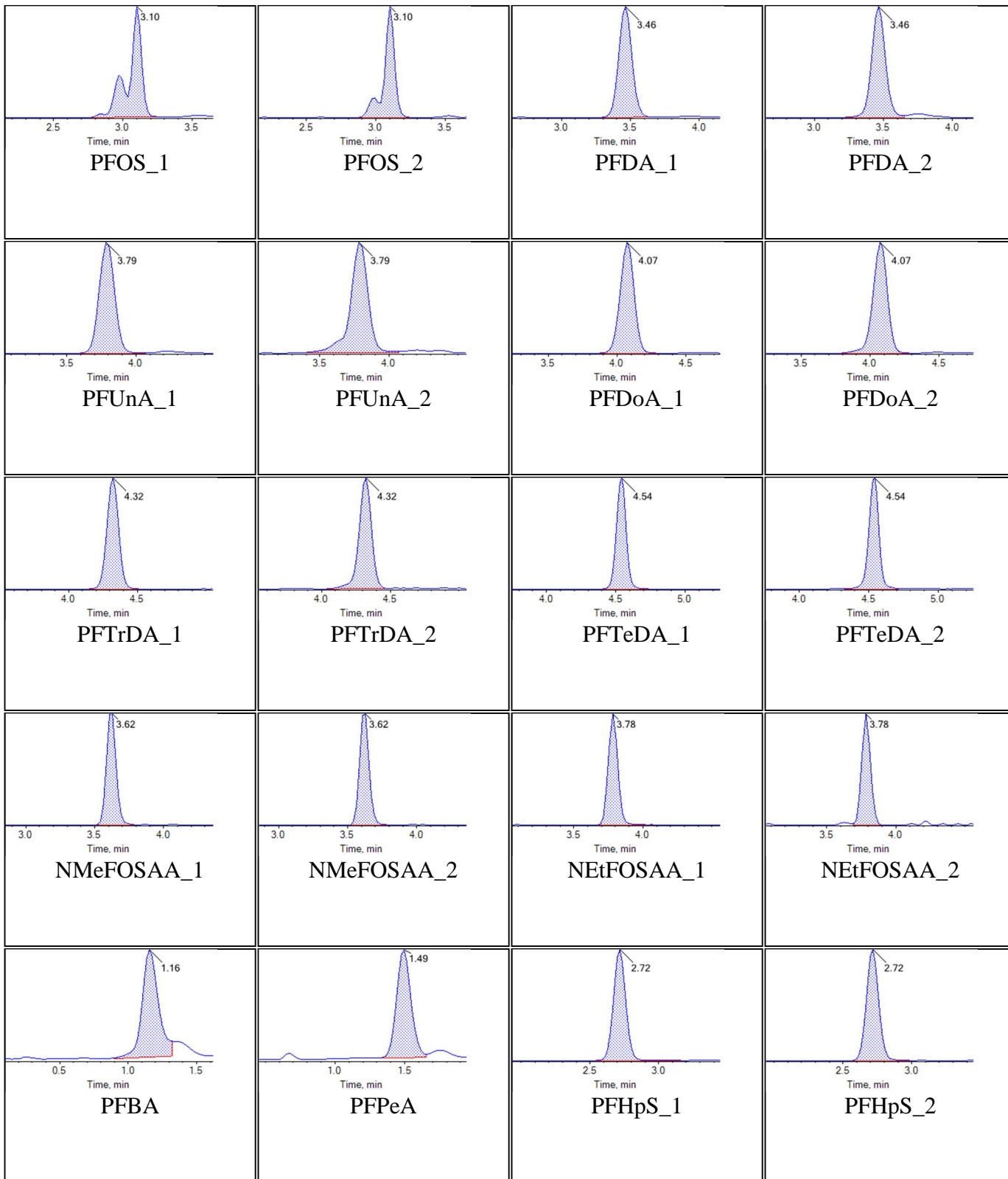
### Target Analytes:



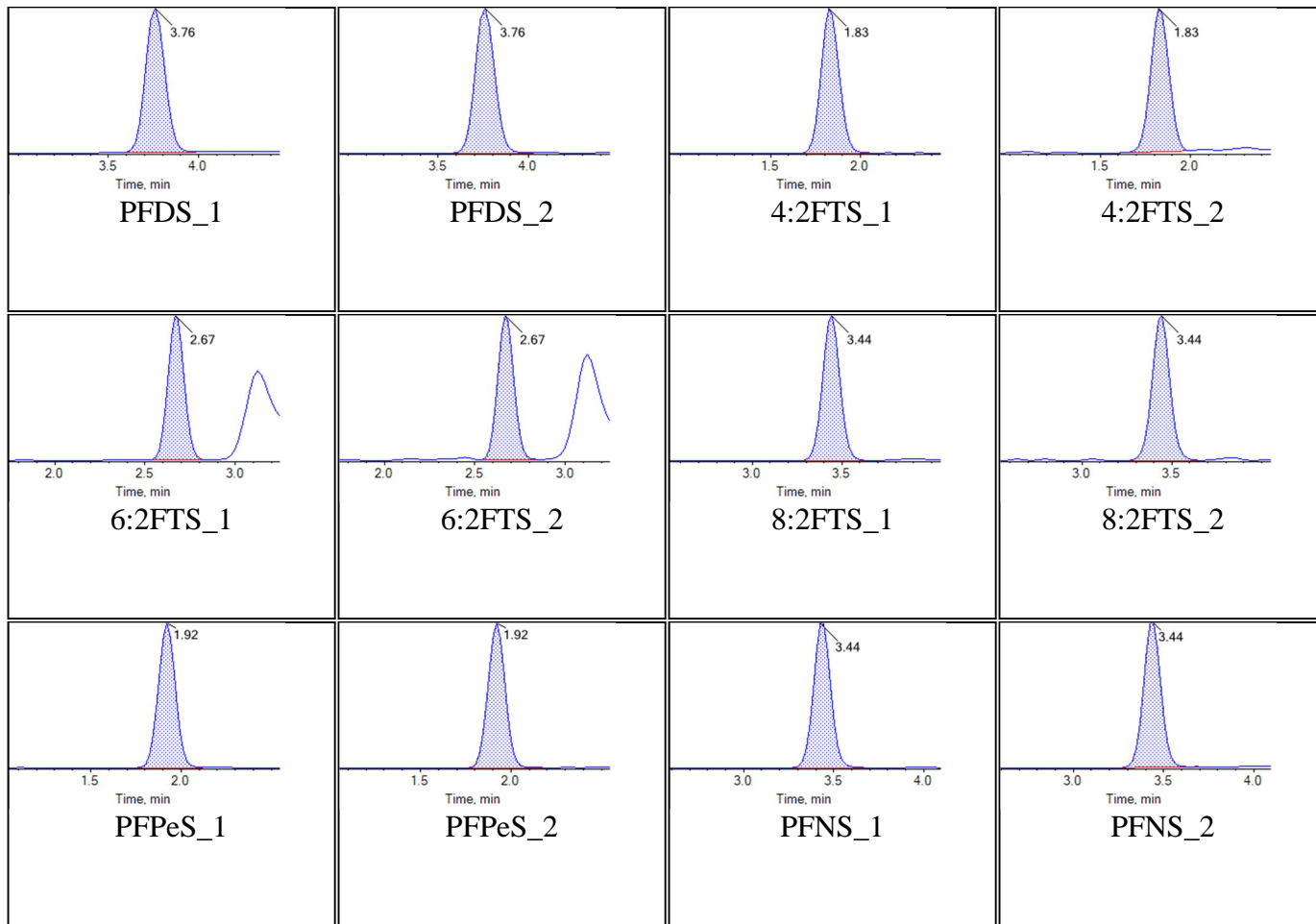


Chromatogram Report

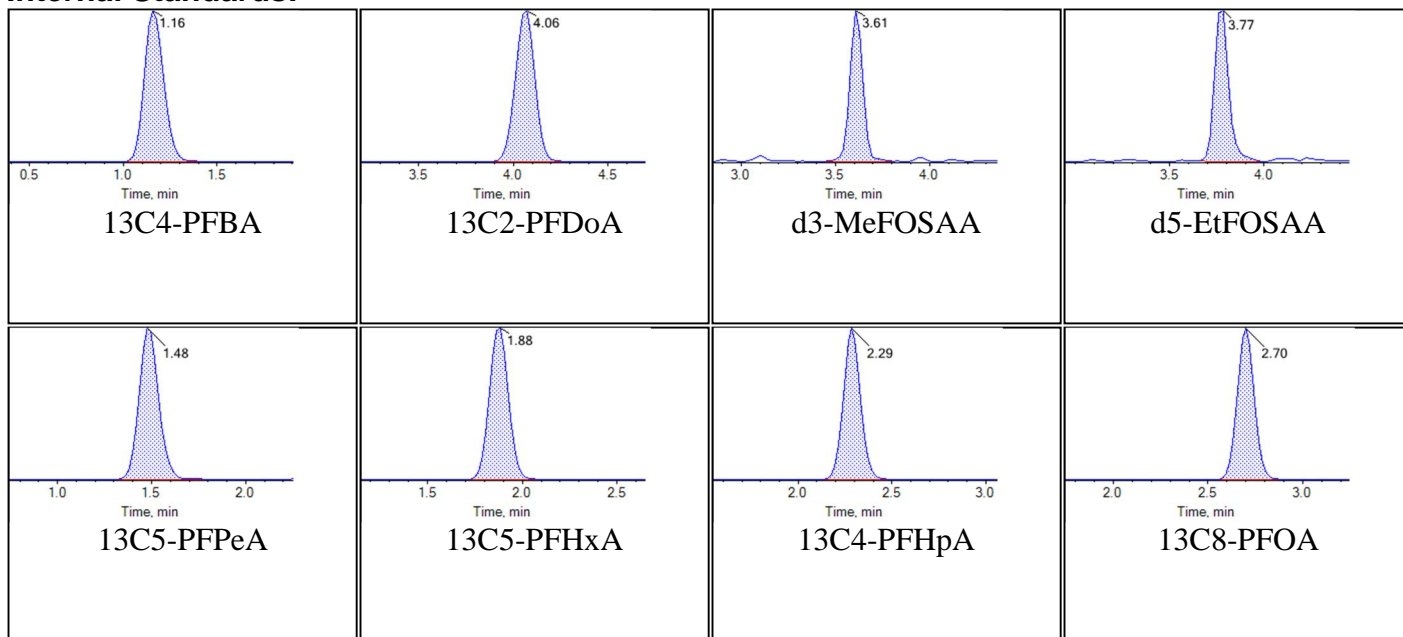
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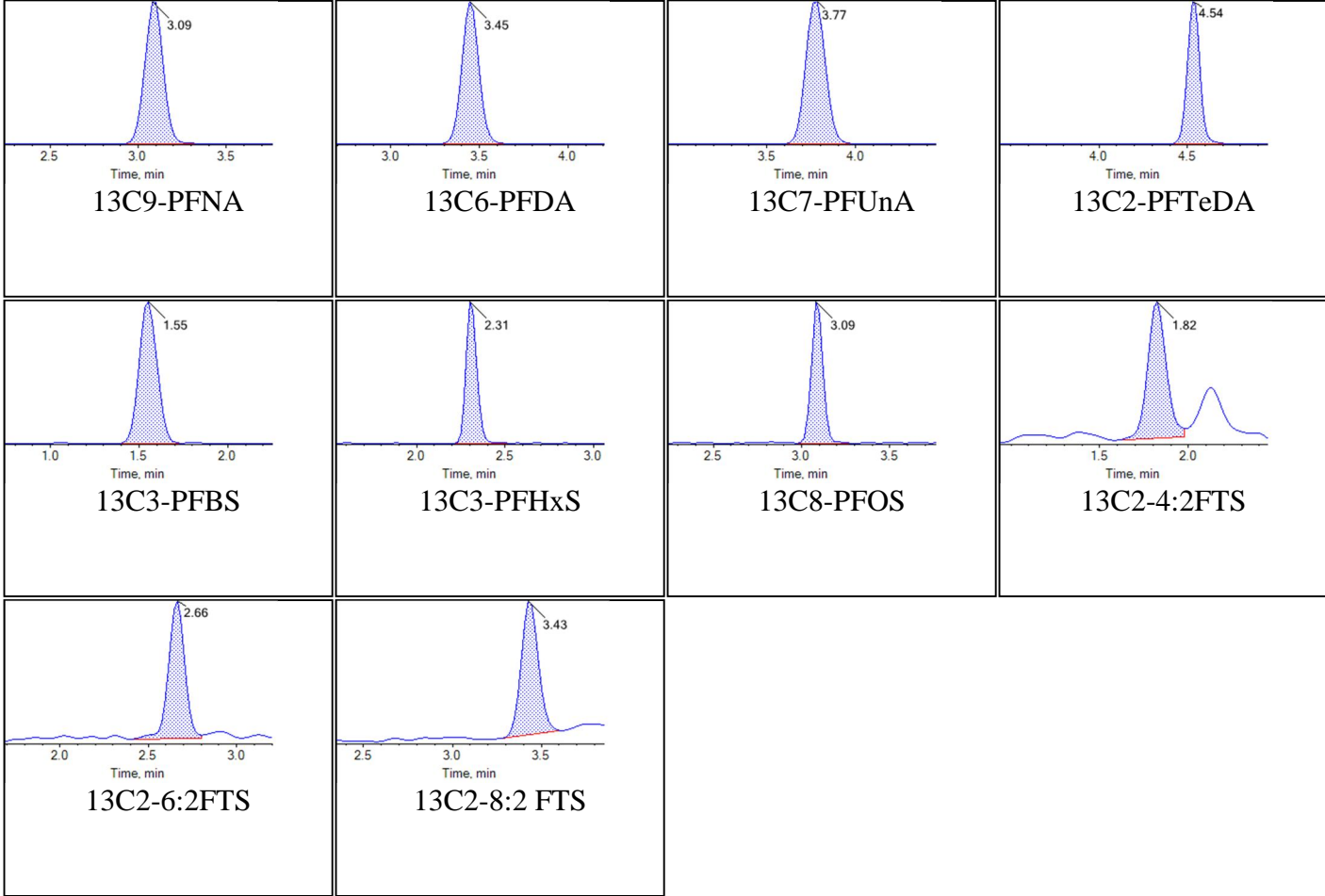






### Internal Standards:

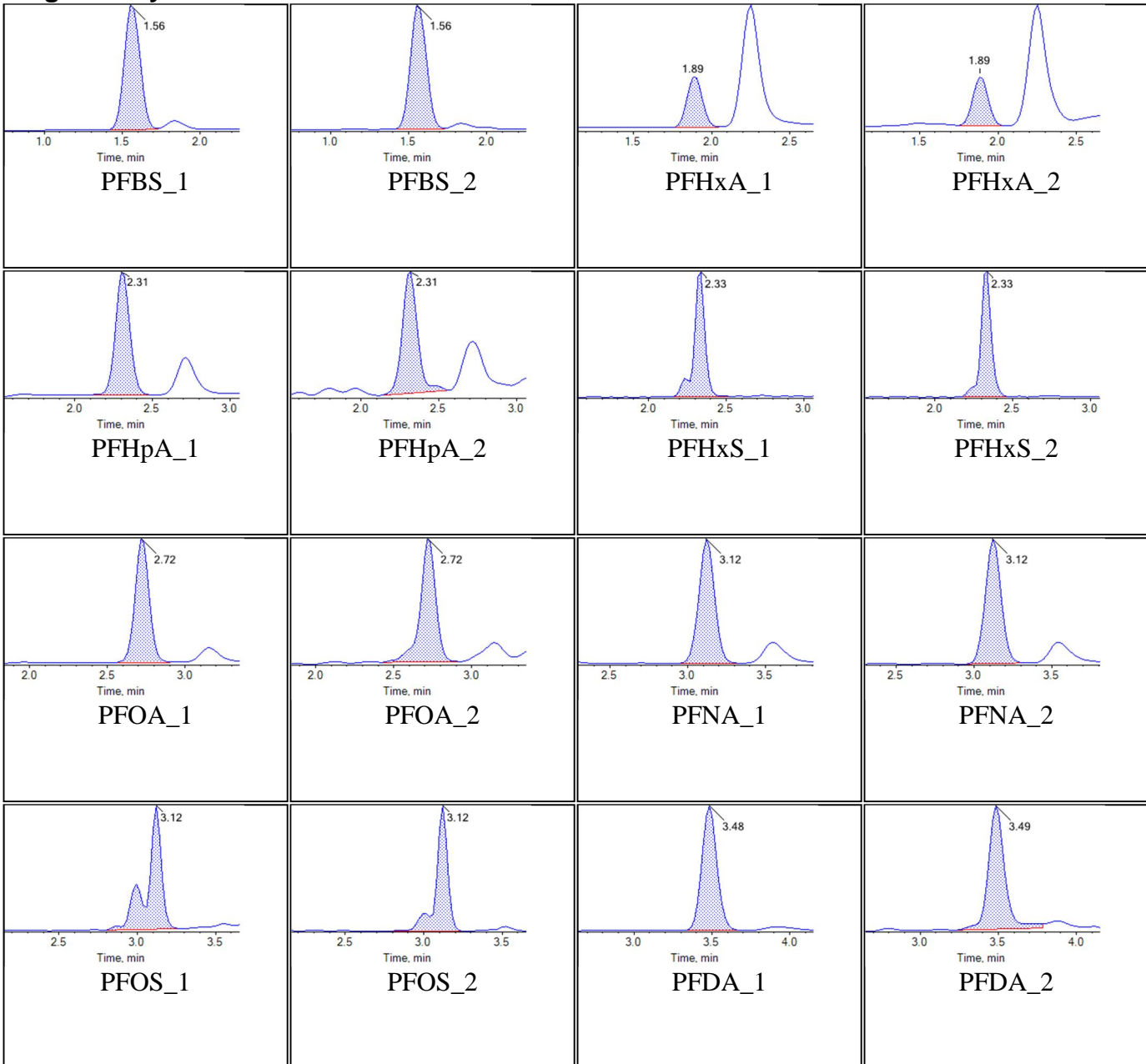


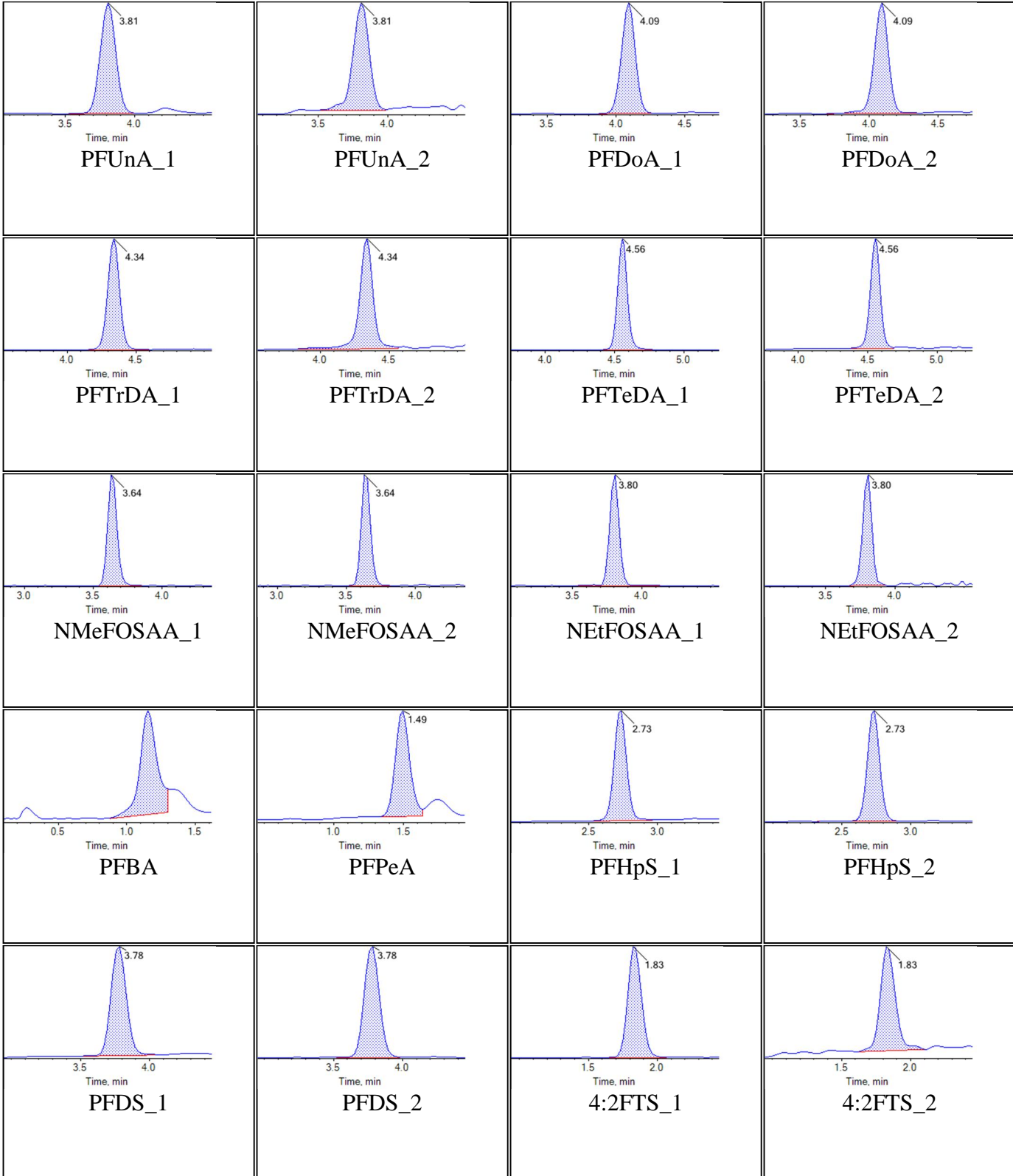


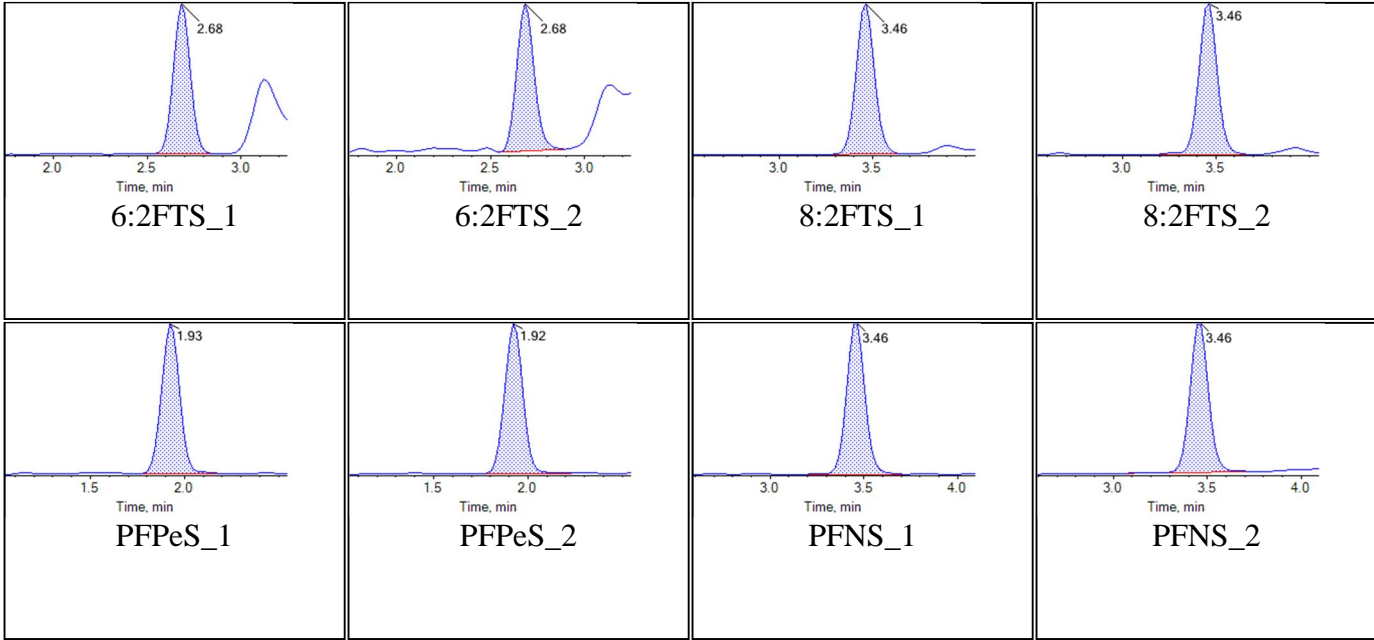
<b>Sample Name</b>	KB75 ISC	<b>Injection Vial</b>	1
<b>Sample ID</b>	Instrument Sensitivity Check	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T18:42:12	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

## Chromatograms

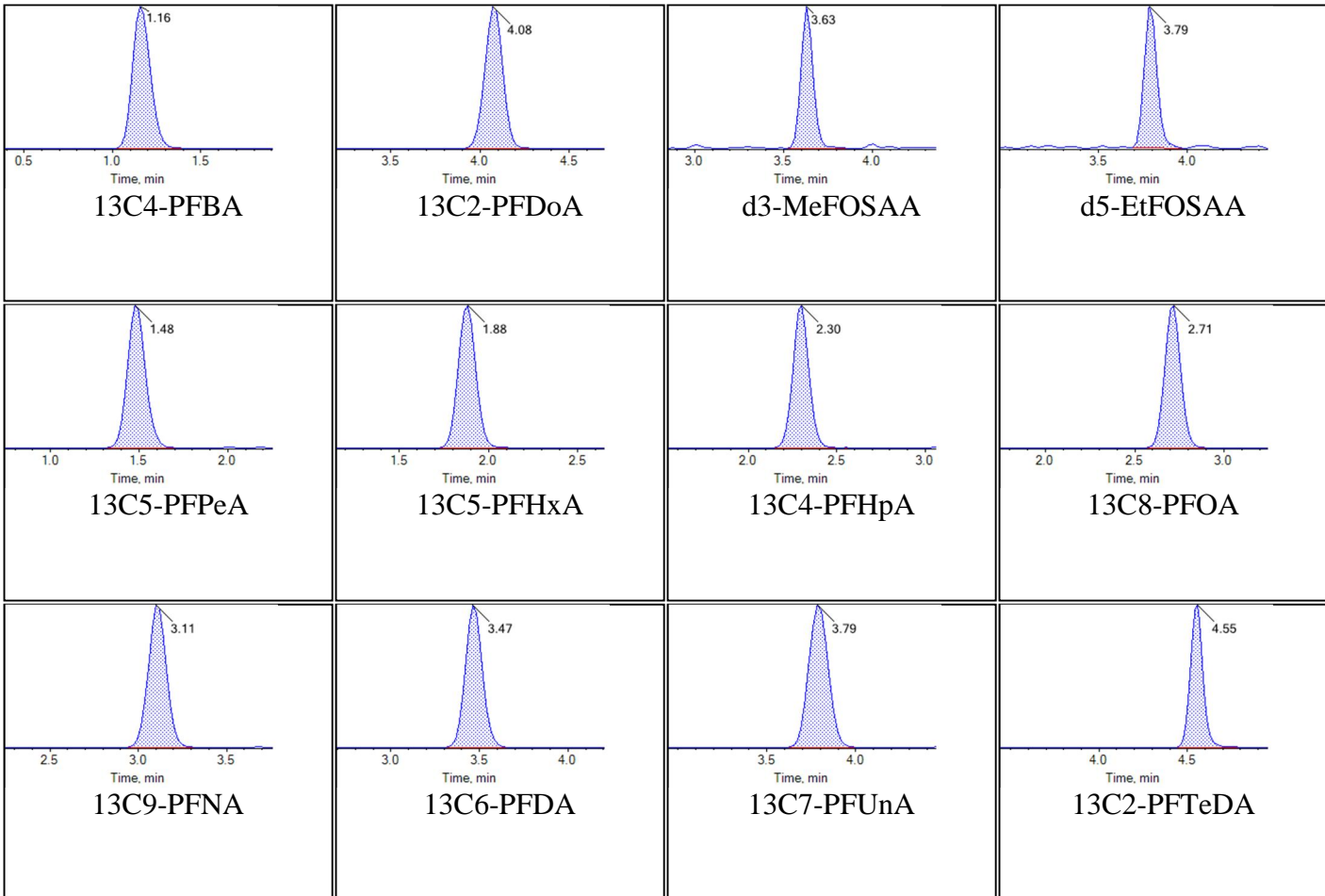
### Target Analytes:





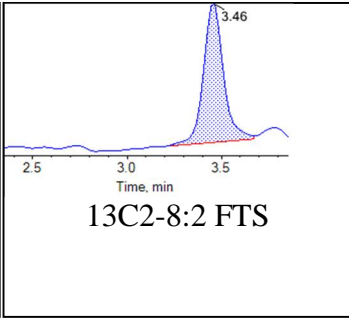
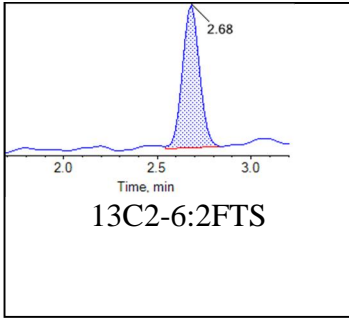
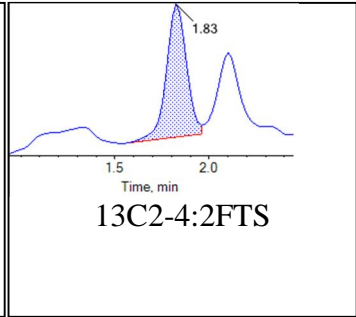
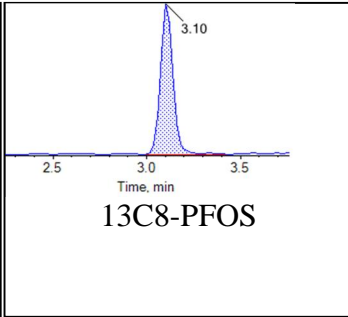
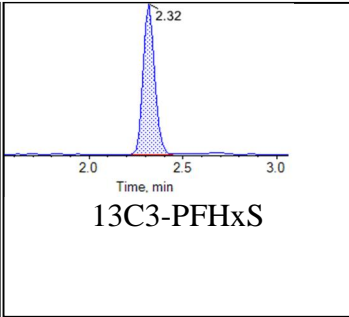
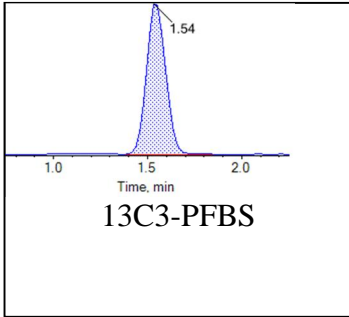


### Internal Standards:



## Chromatogram Report

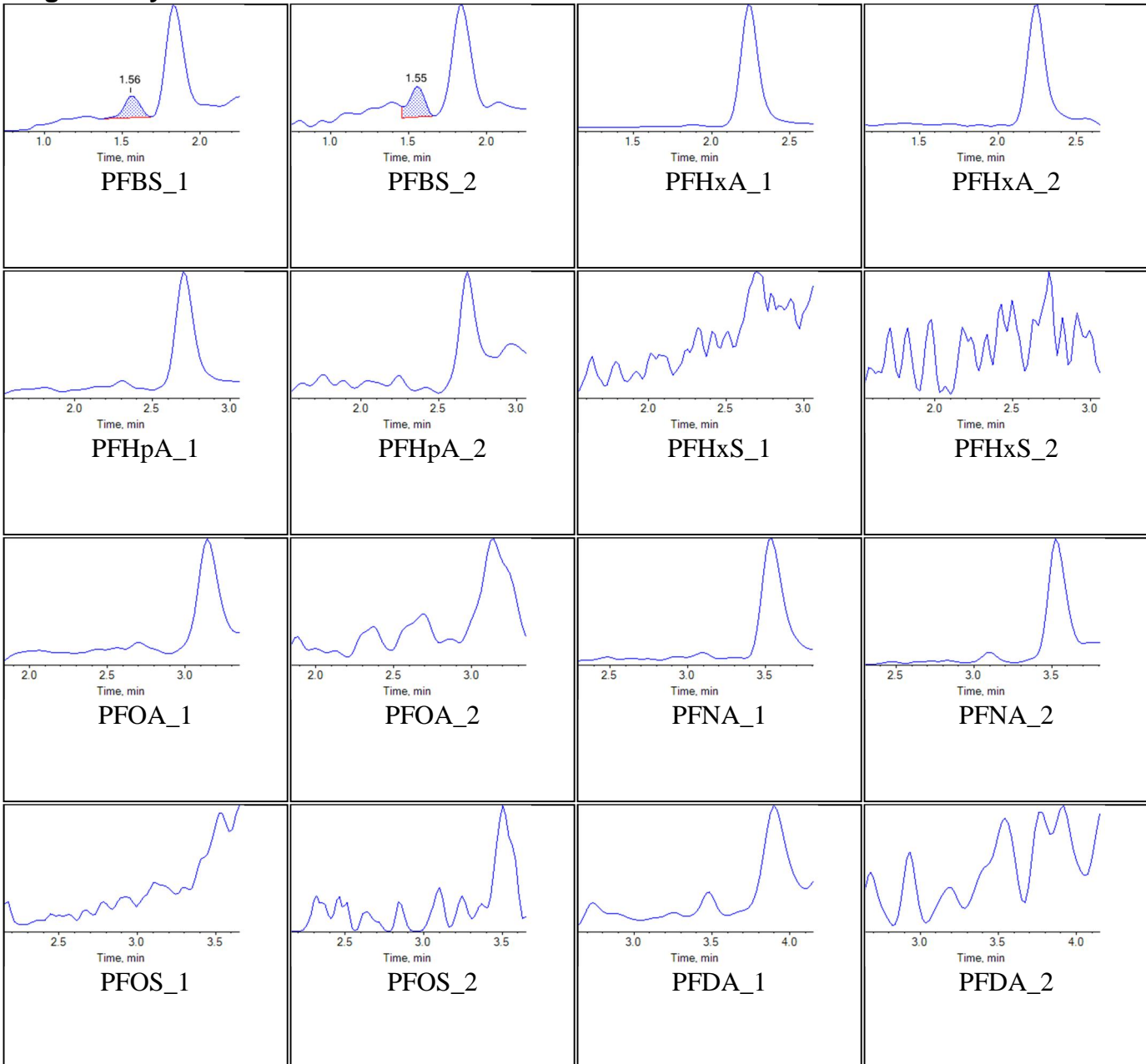
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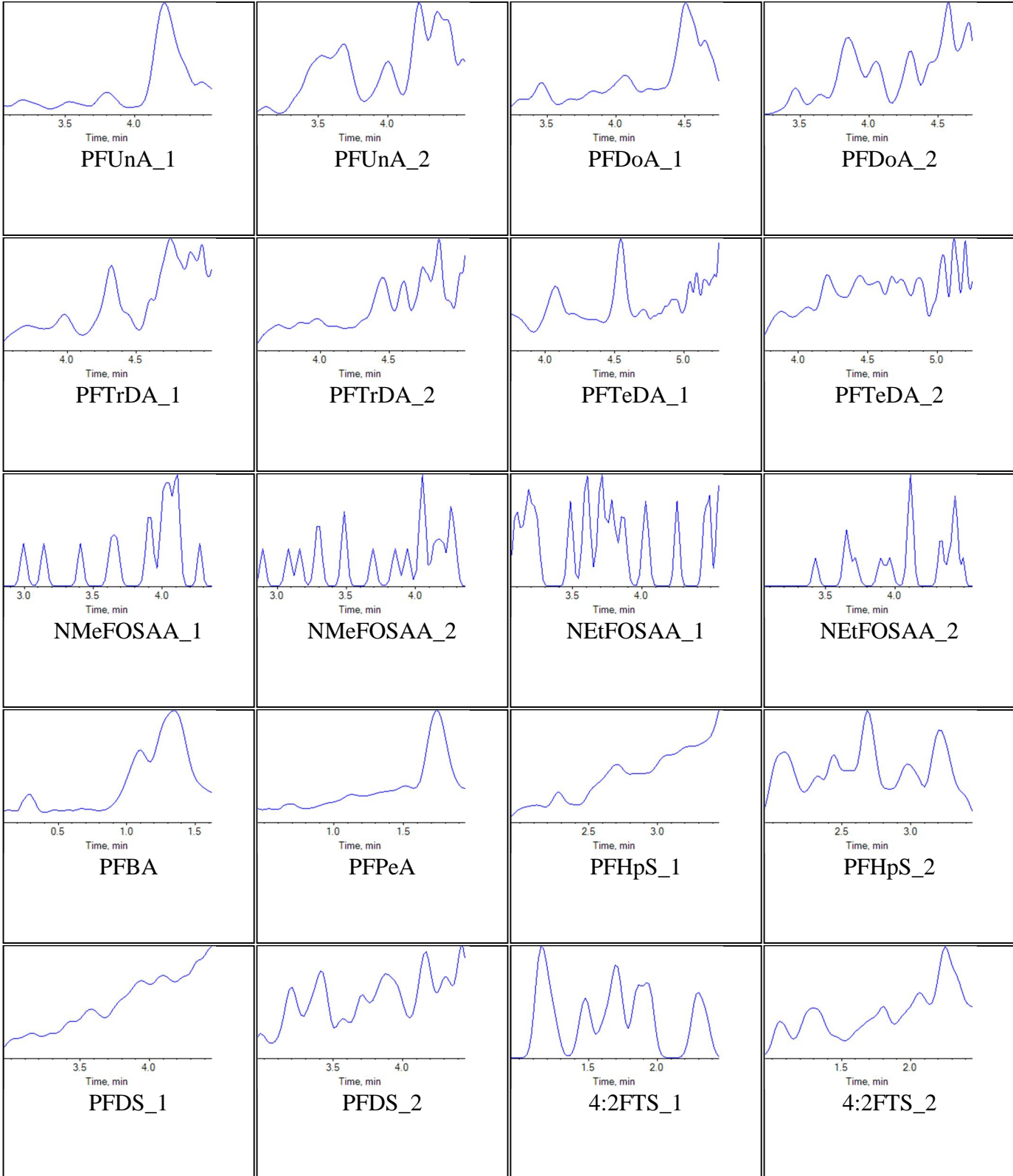


<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	2
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T18:53:06	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

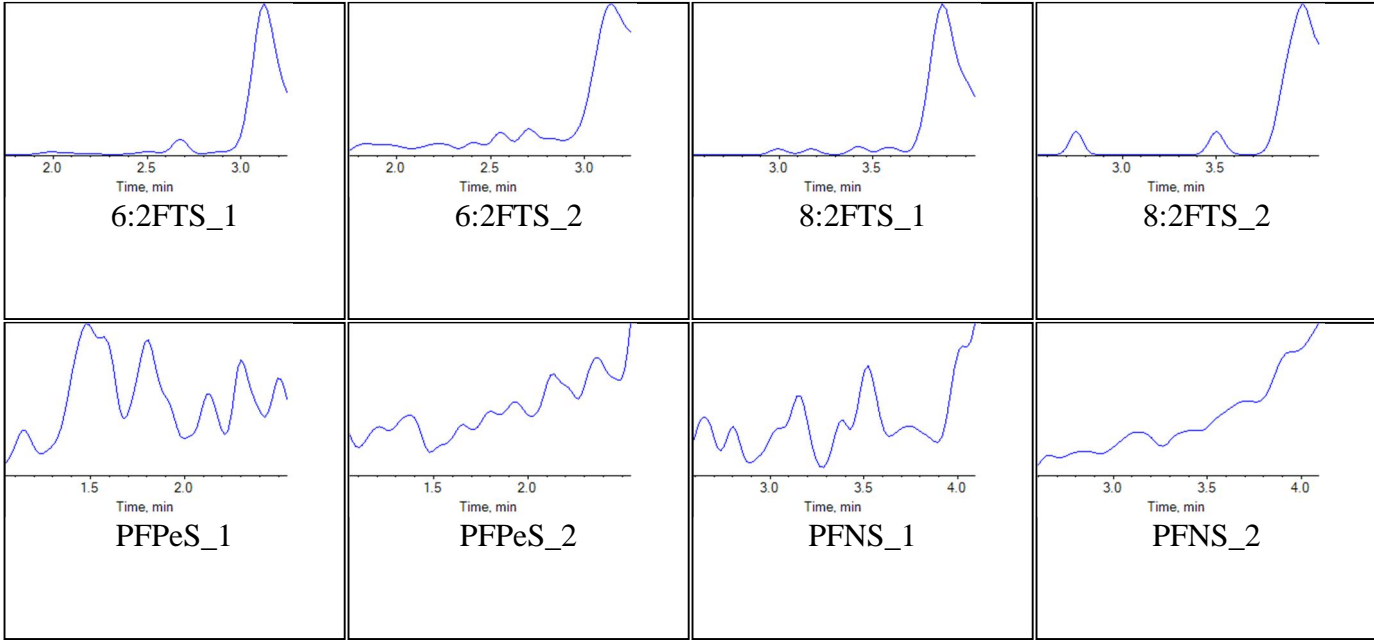
## Chromatograms

### Target Analytes:

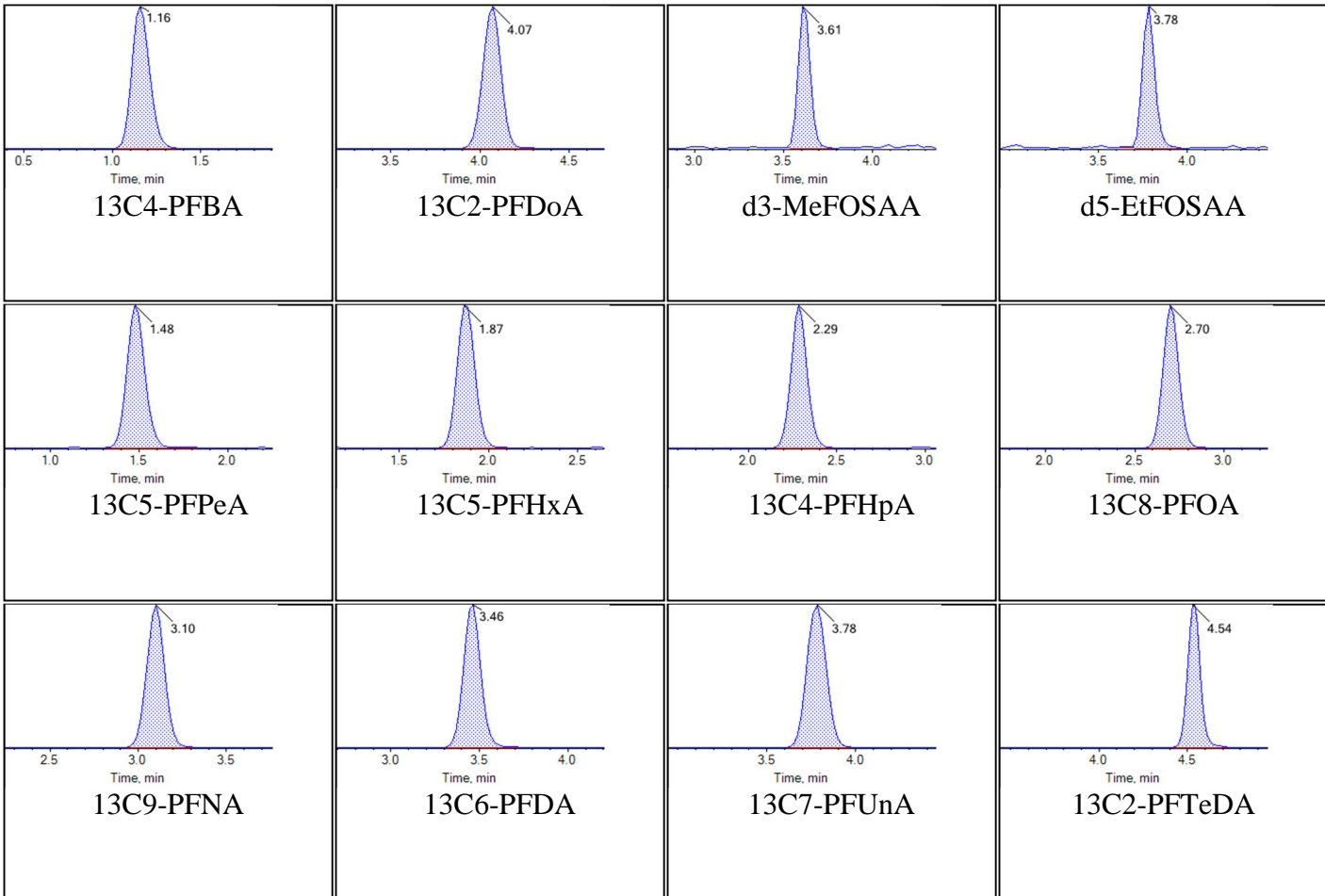






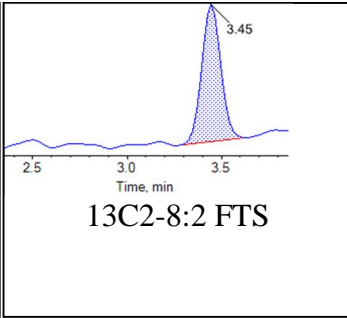
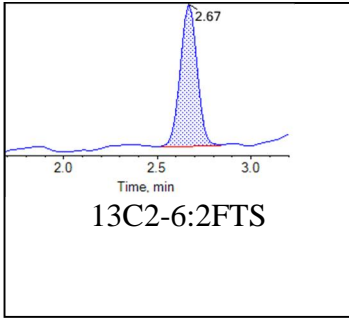
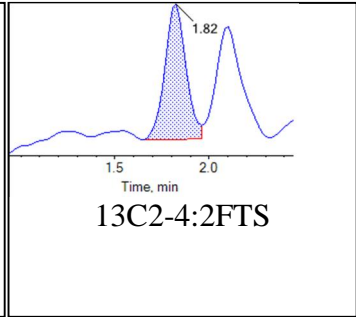
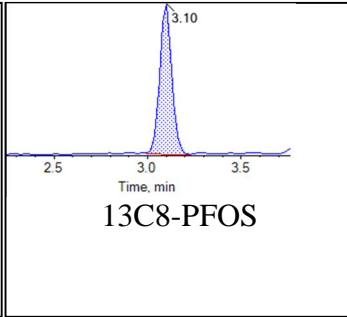
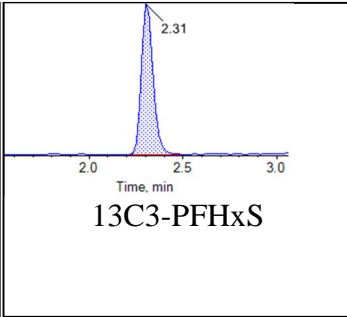
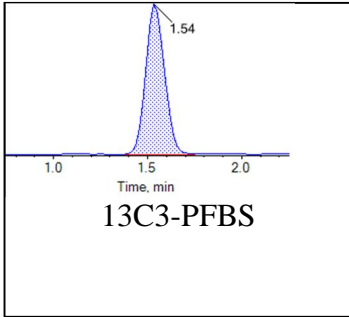


## Internal Standards:



## Chromatogram Report

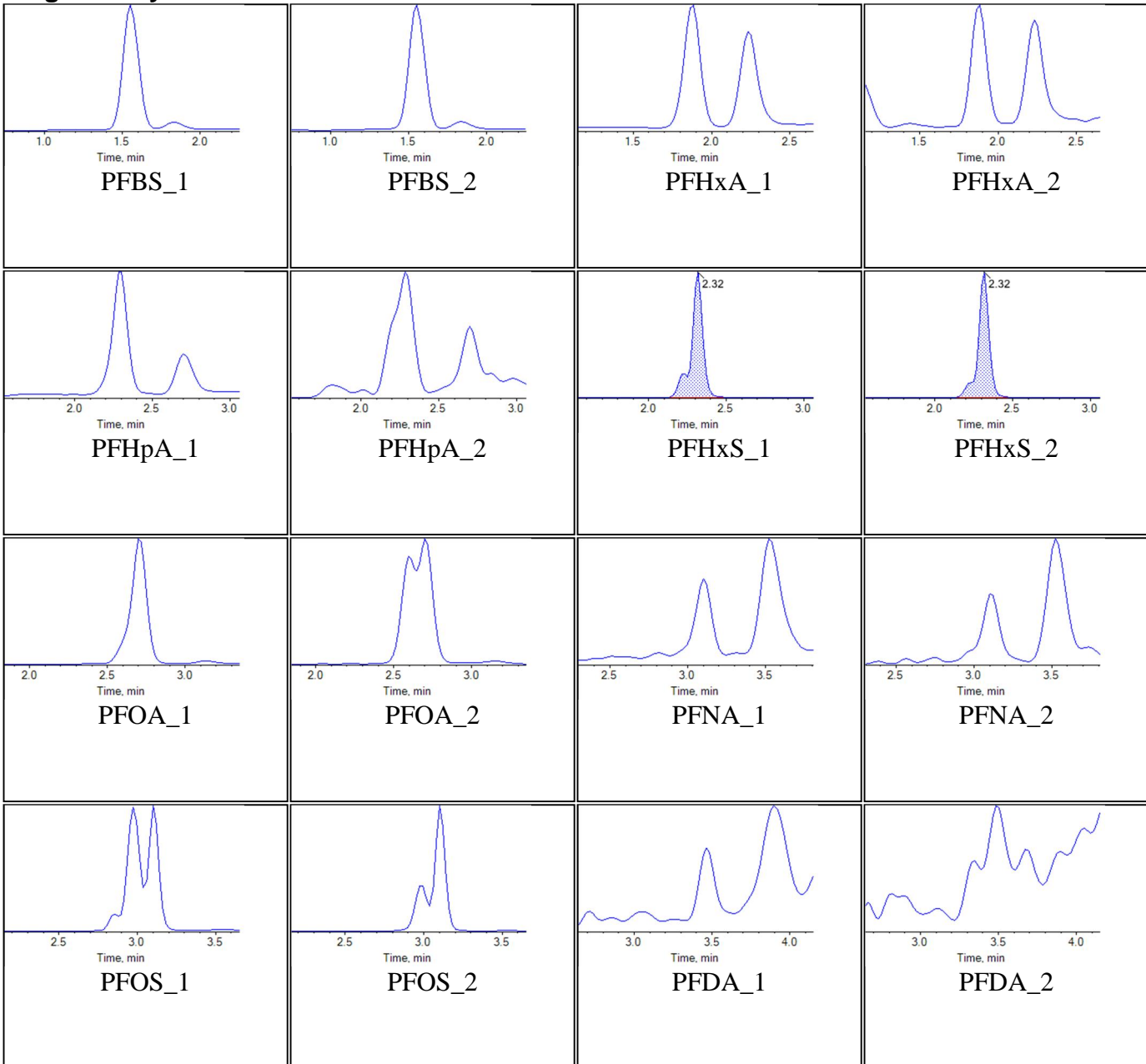
Created with Analyst Reporter  
Printed: 25/10/2018 9:57:44 AM

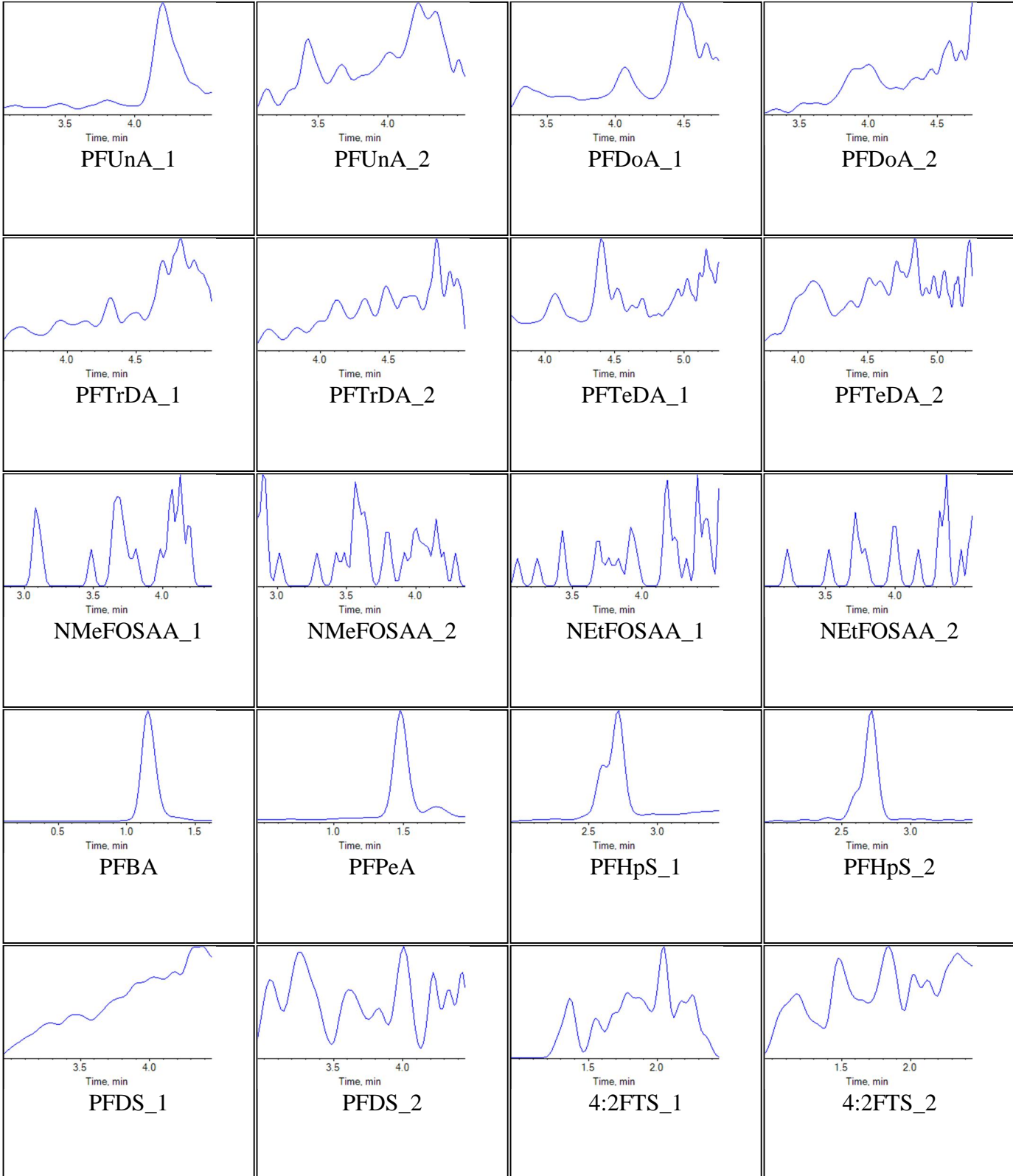


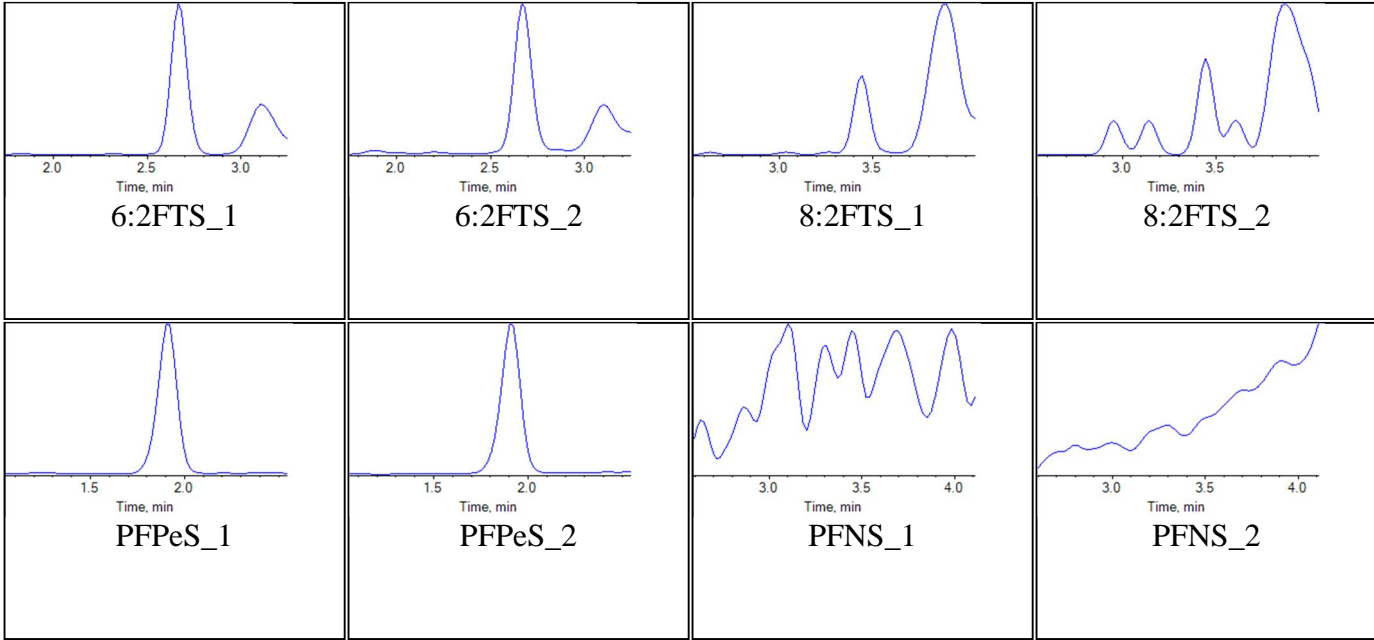
Sample Name	J8460-FS-D(9)	Injection Vial	4
Sample ID		Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-23T19:14:54	Data File	5-0369_10232018_5500.wiff
Acquisition Method	5-0369.dam	Result Table	5500_10242018_5-0369_BASE
Sample Comment			

## Chromatograms

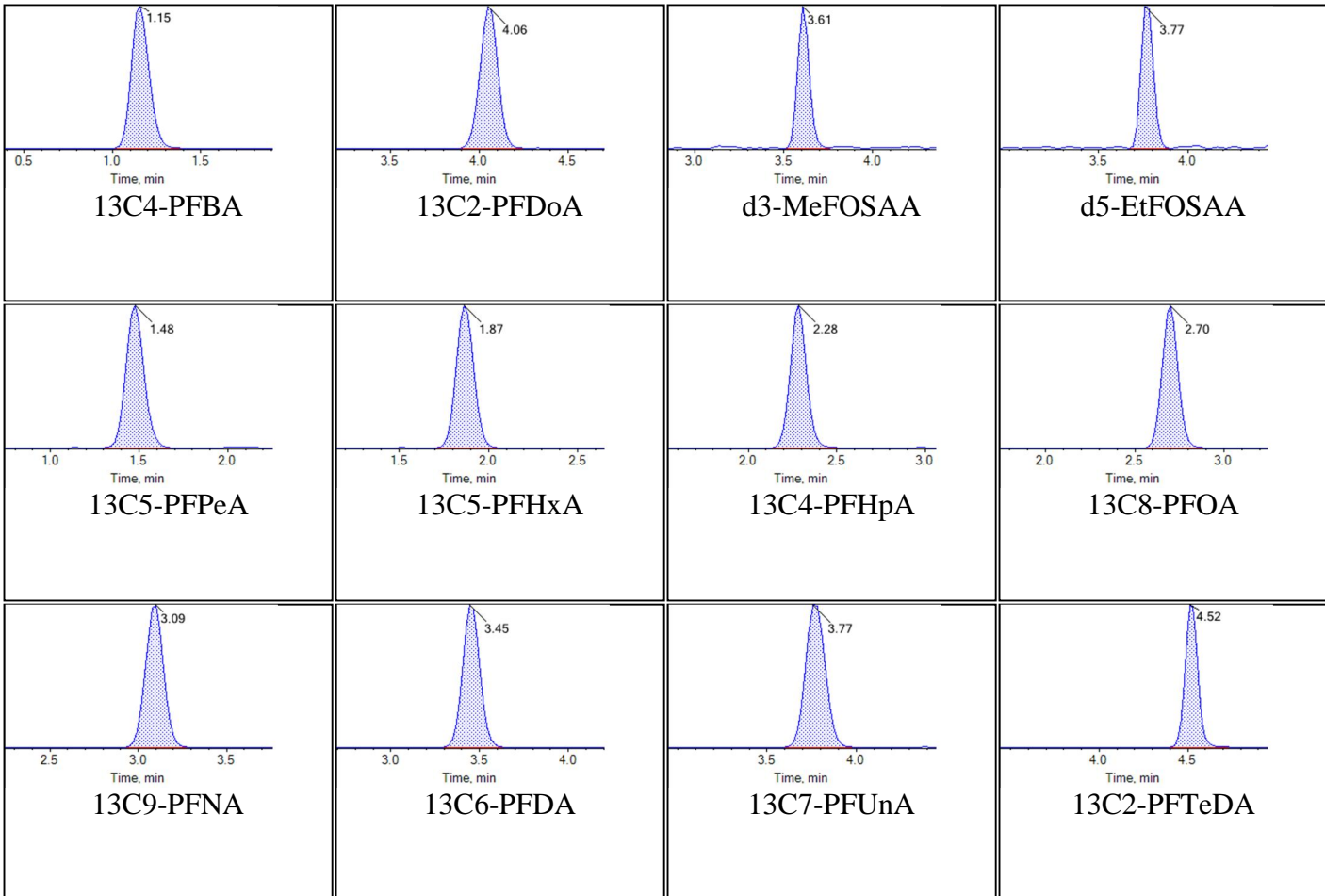
### Target Analytes:





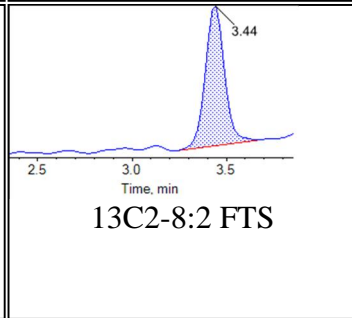
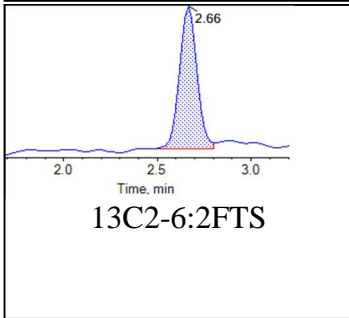
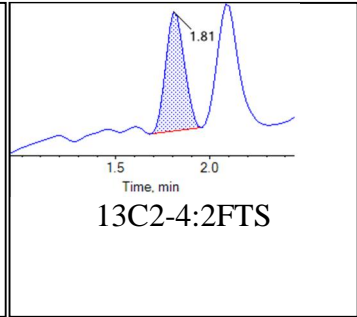
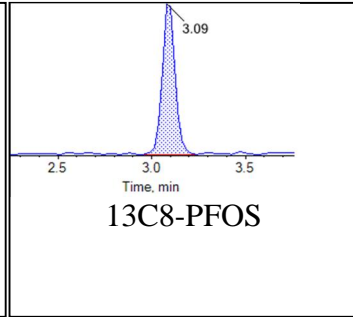
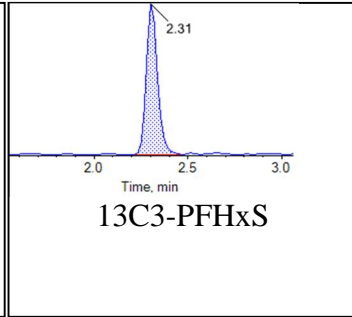
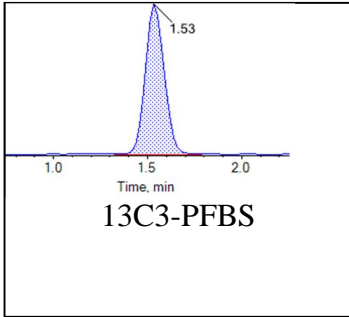


## Internal Standards:



## Chromatogram Report

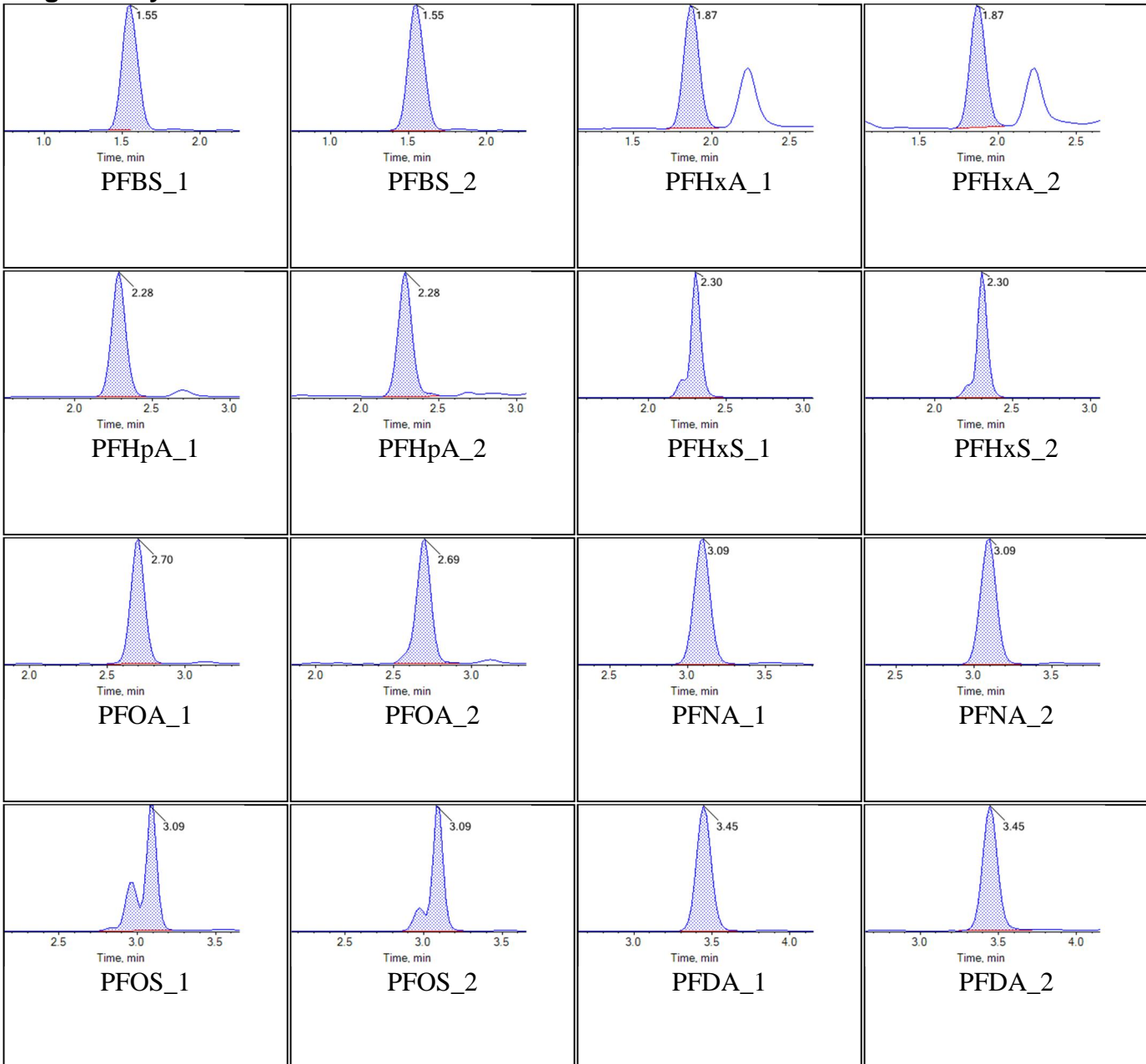
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Printed: 25/10/2018 9:57:56 AM

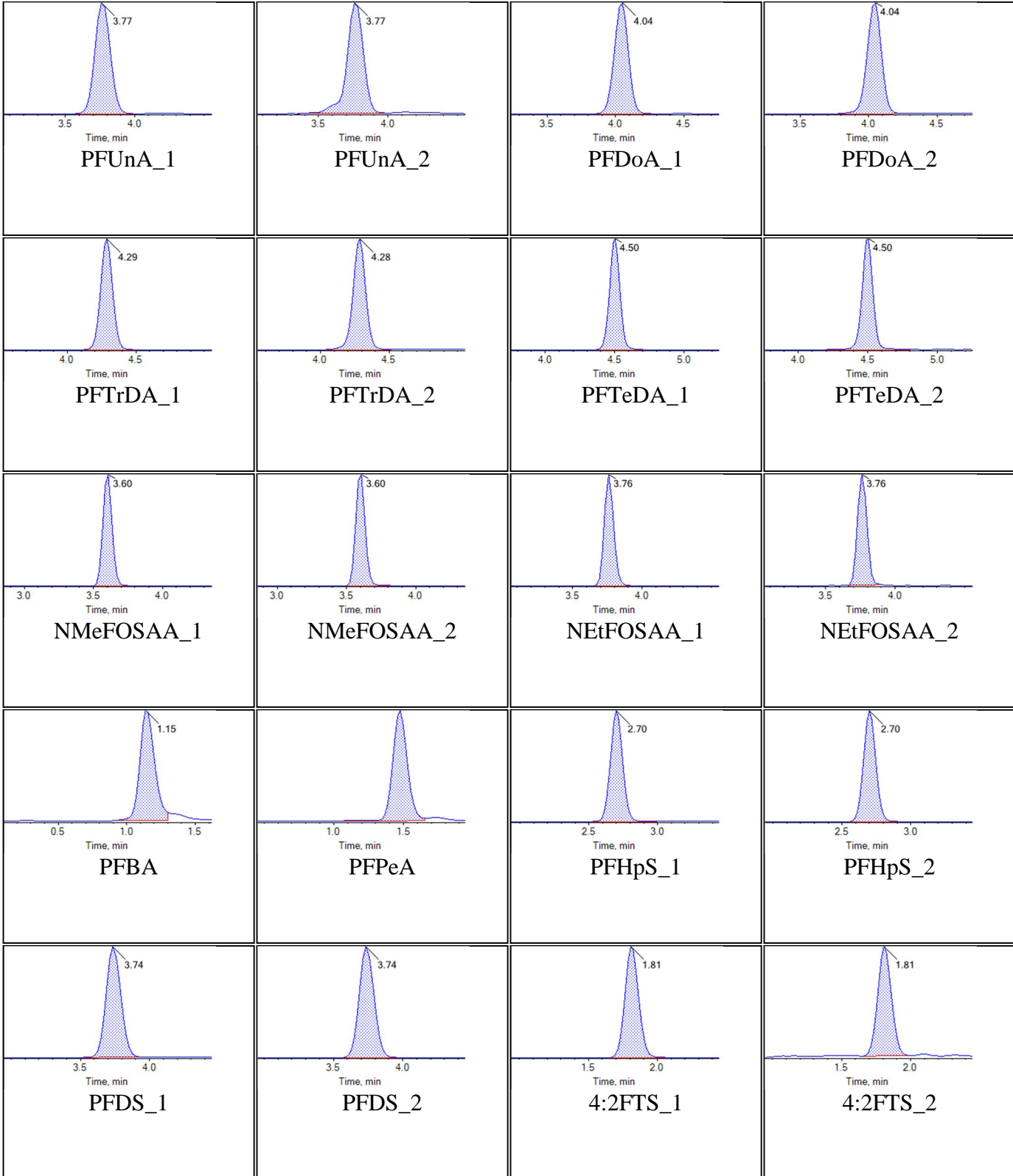


<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	13
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T20:52:42	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369_BASE
<b>Sample Comment</b>			

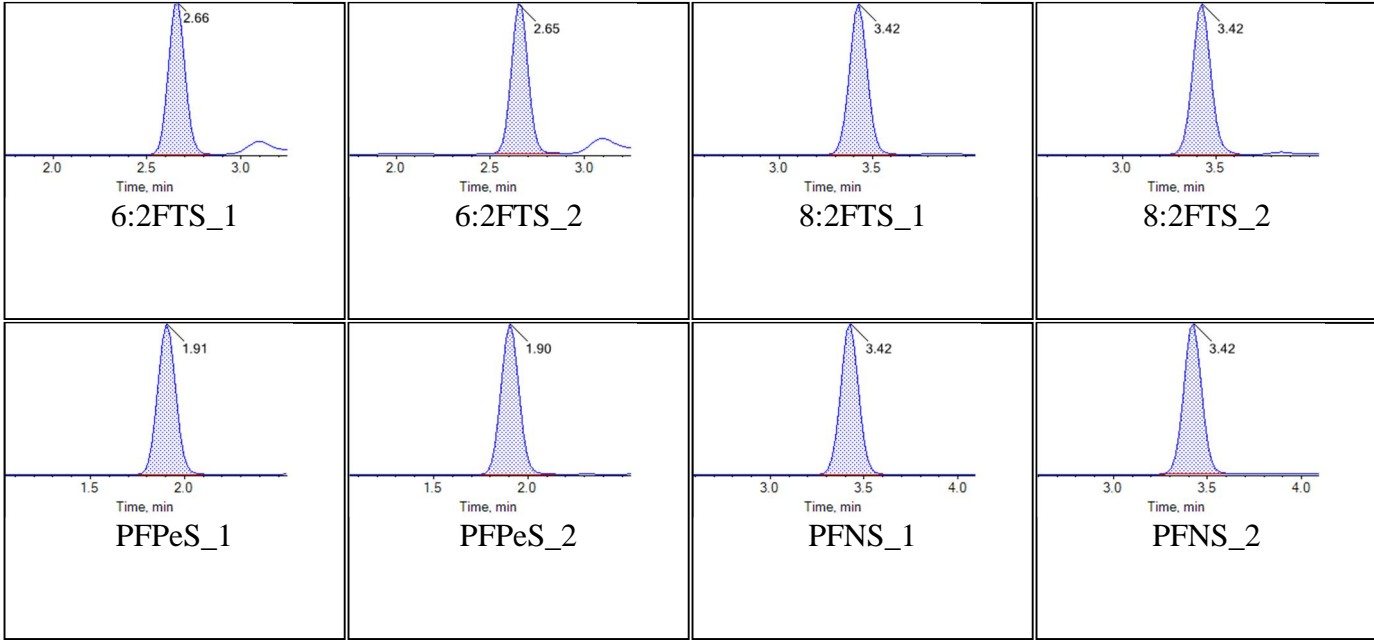
## Chromatograms

### Target Analytes:

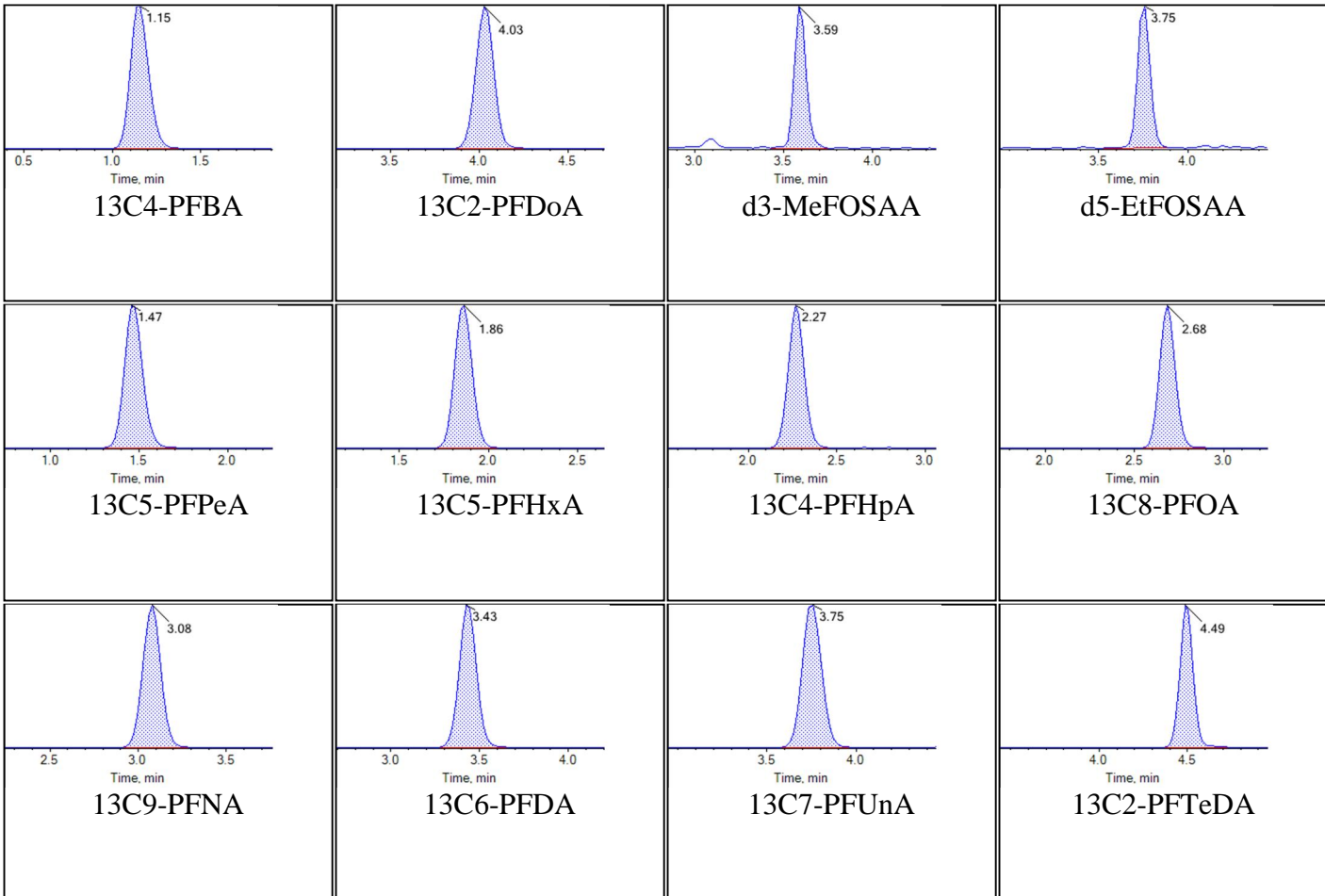






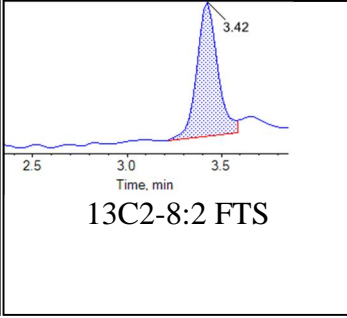
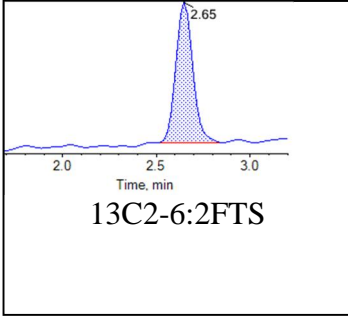
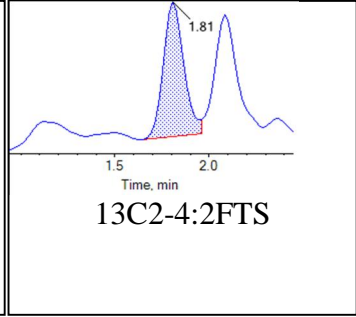
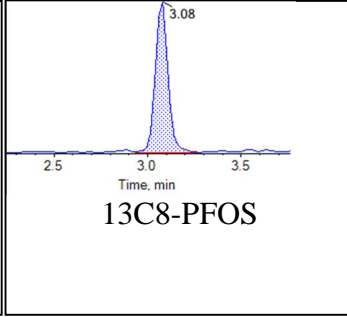
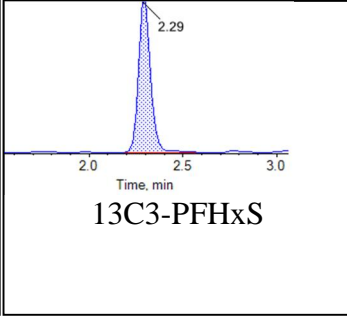
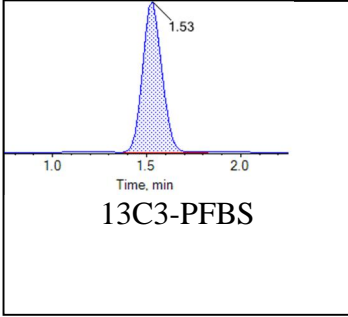


## Internal Standards:



## Chromatogram Report

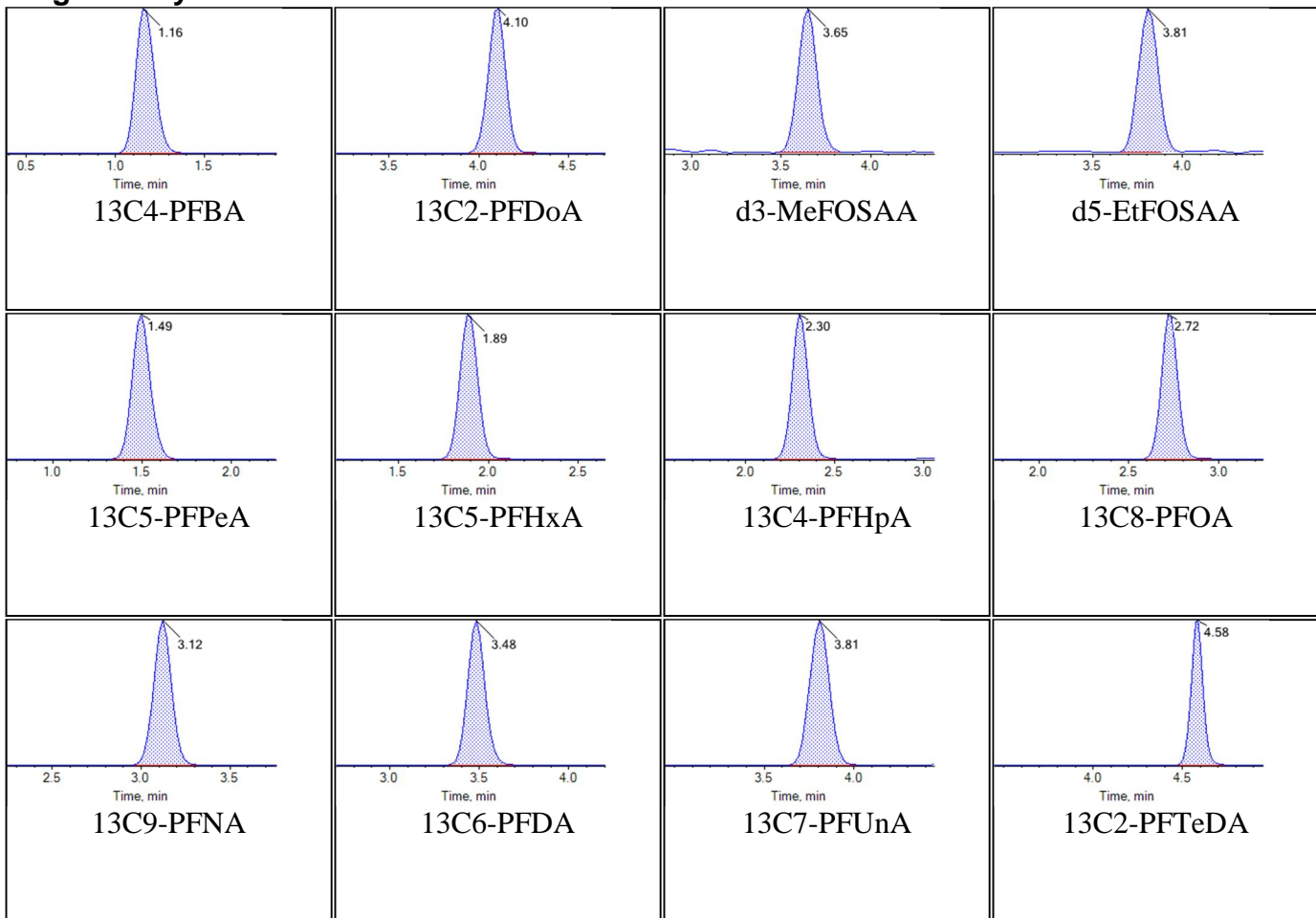
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Printed: 25/10/2018 9:58:01 AM

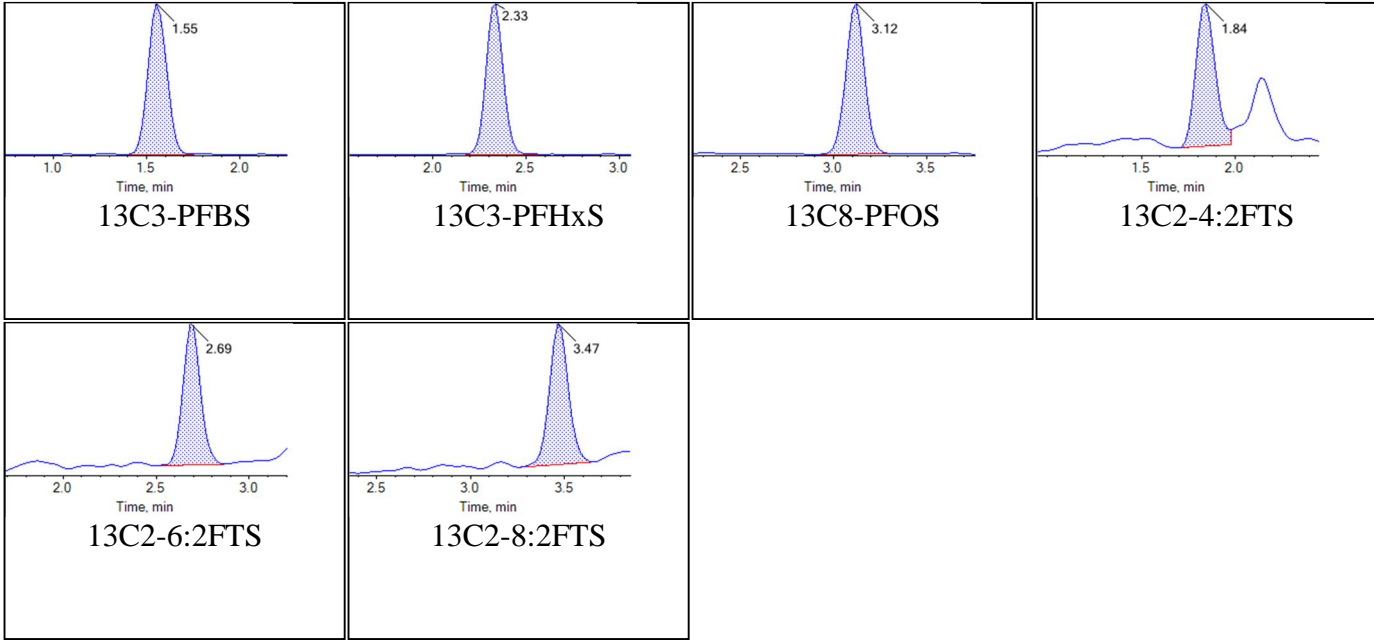


<b>Sample Name</b>	KB73	<b>Injection Vial</b>	2
<b>Sample ID</b>	L1	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:46:52	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

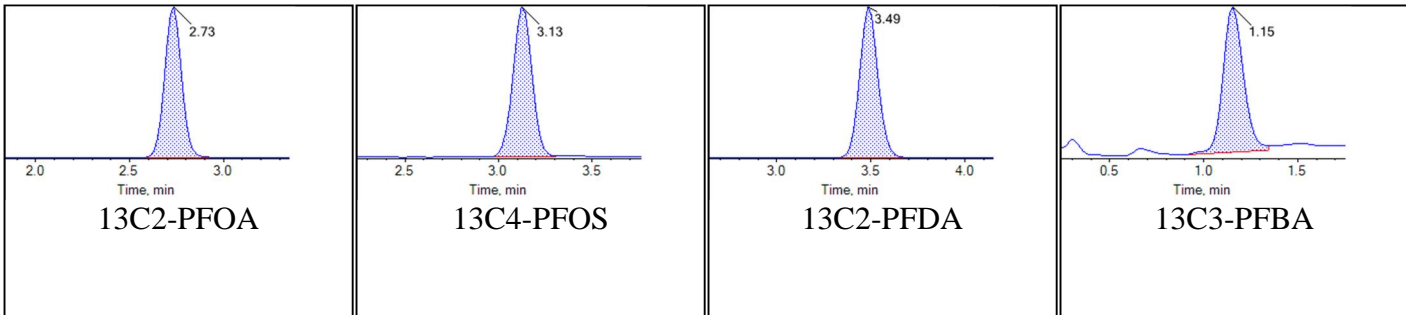
## Chromatograms

### Target Analytes:





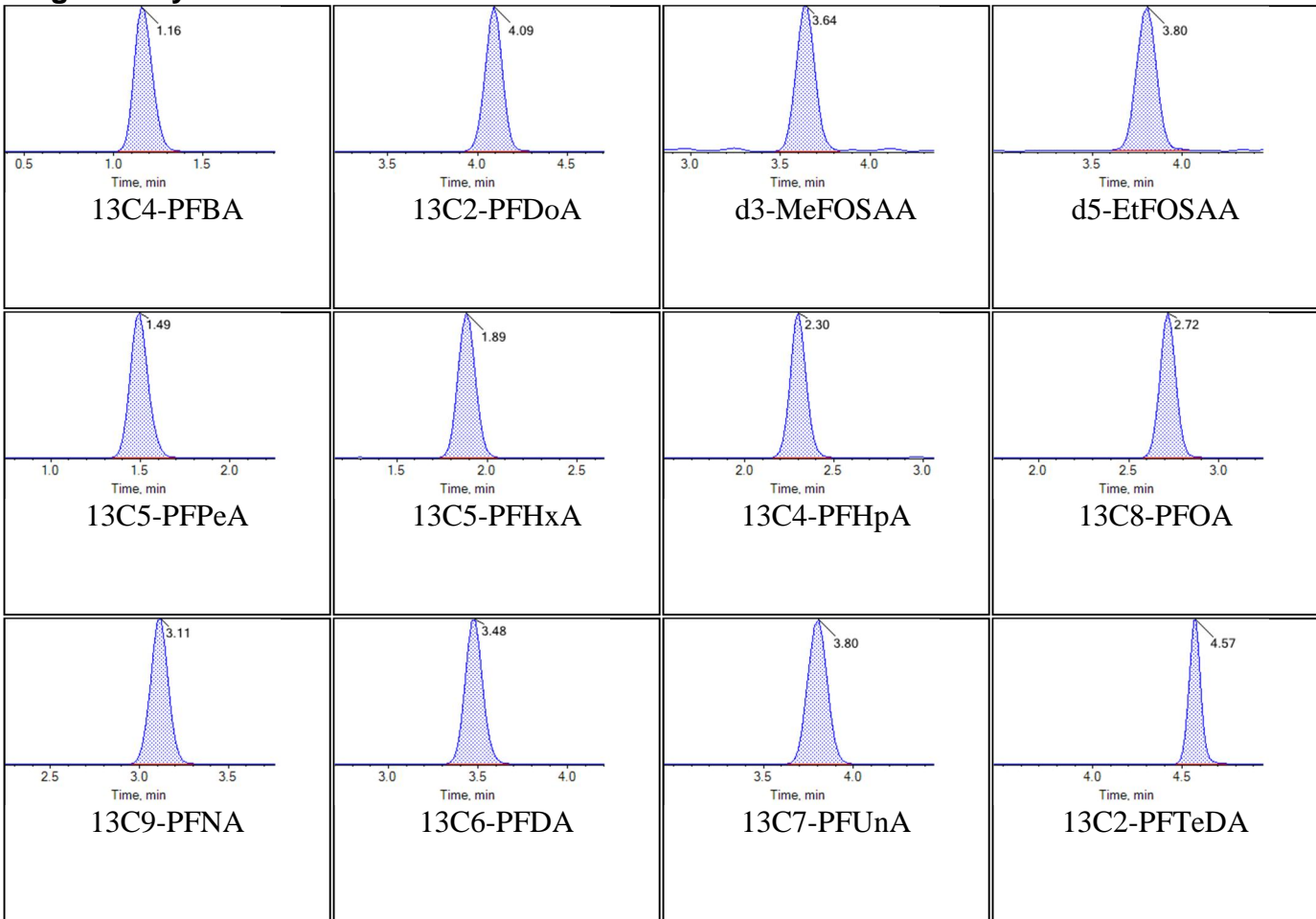
### Internal Standards:

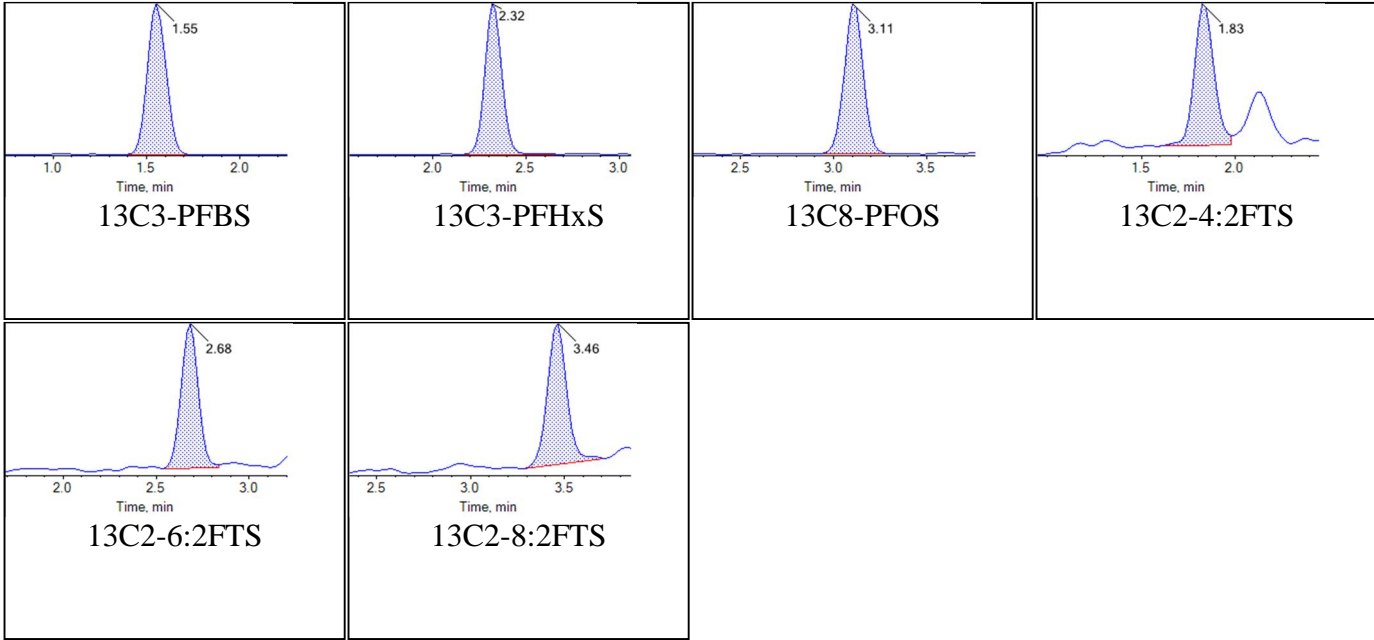


<b>Sample Name</b>	KB74	<b>Injection Vial</b>	3
<b>Sample ID</b>	L2	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T19:57:45	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

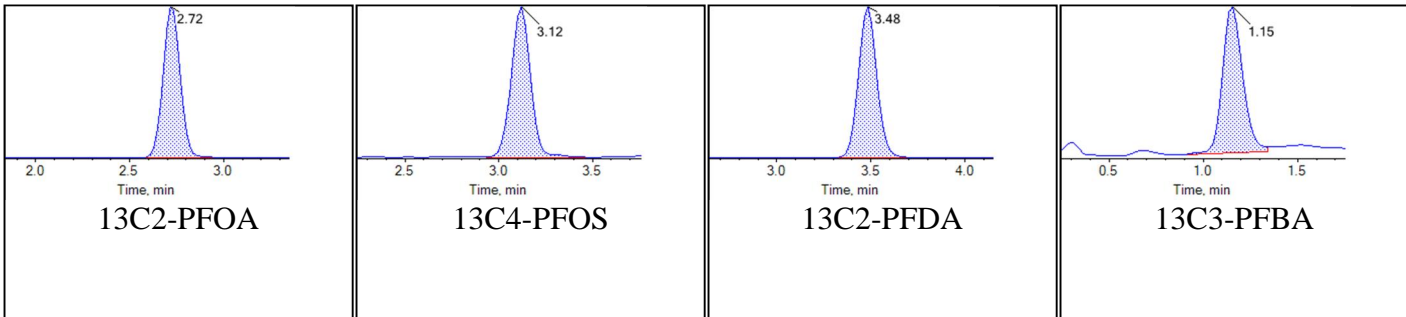
## Chromatograms

### Target Analytes:





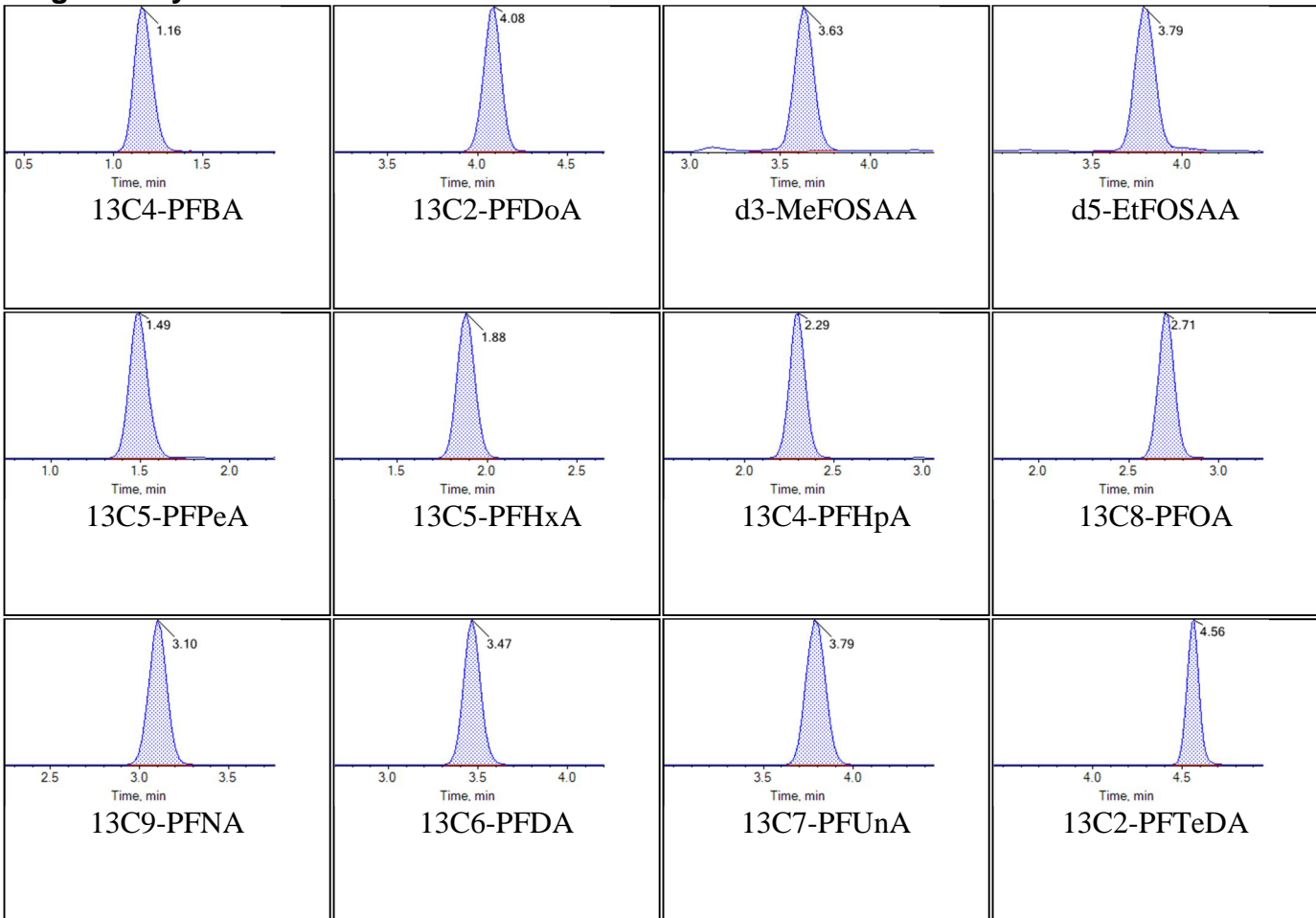
### Internal Standards:

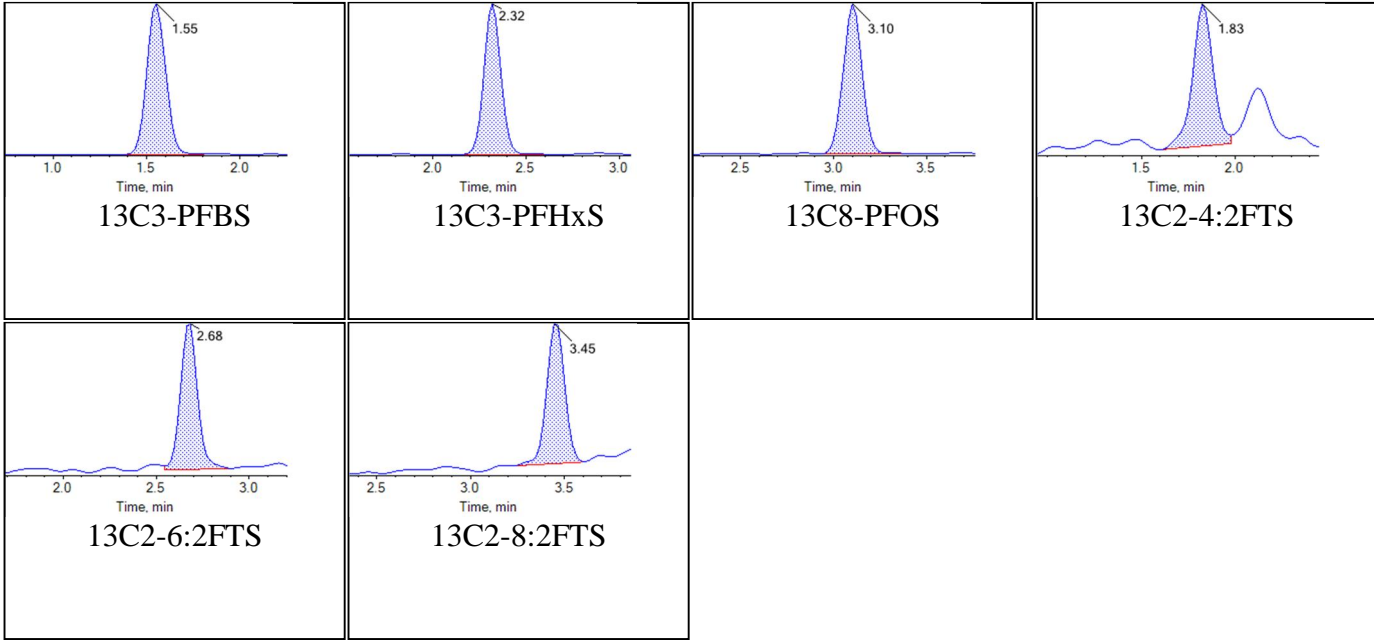


<b>Sample Name</b>	KB75	<b>Injection Vial</b>	4
<b>Sample ID</b>	L3	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:08:39	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

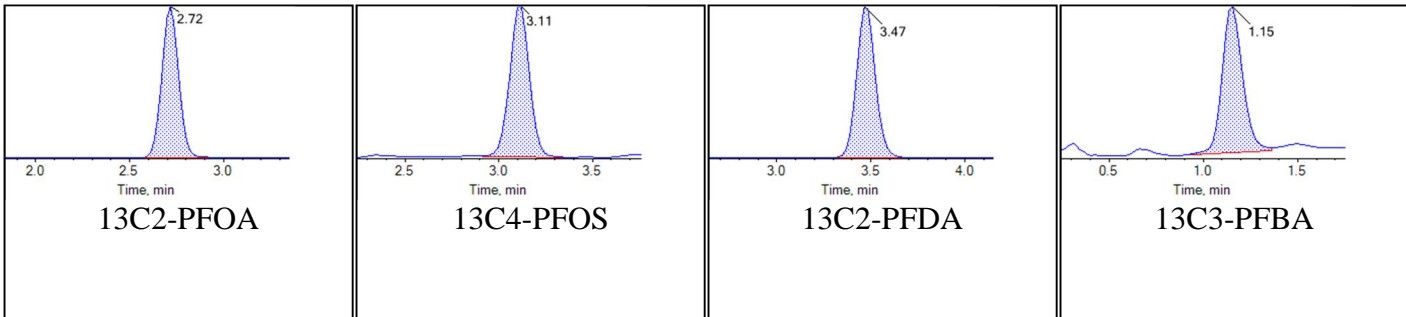
## Chromatograms

### Target Analytes:





## Internal Standards:

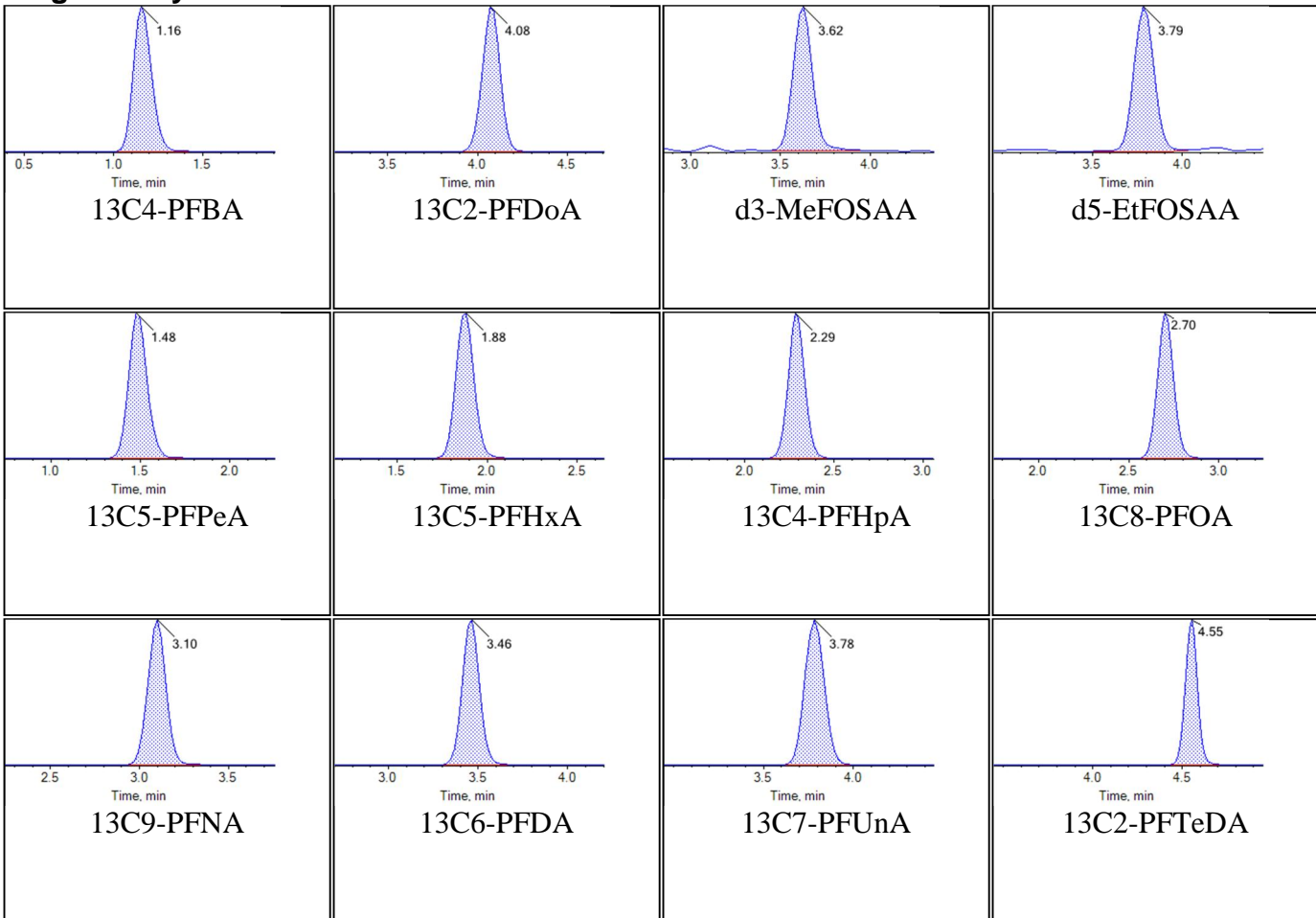


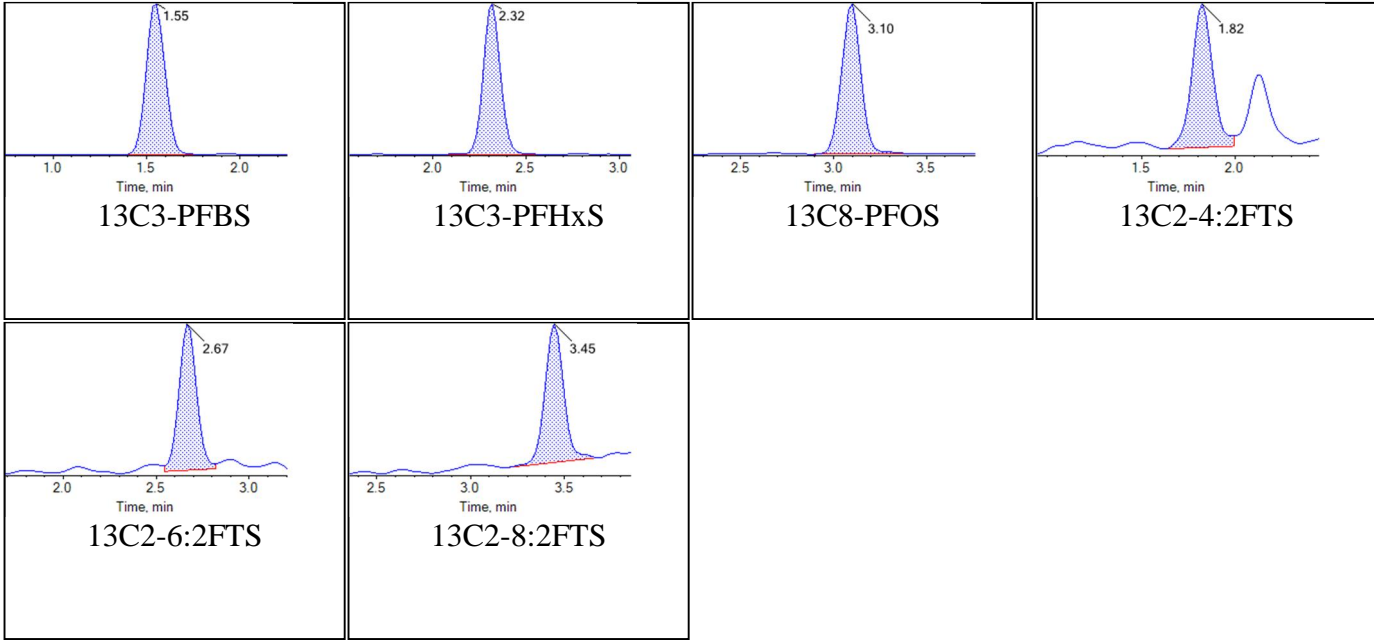


<b>Sample Name</b>	KB76	<b>Injection Vial</b>	5
<b>Sample ID</b>	L4	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:19:32	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

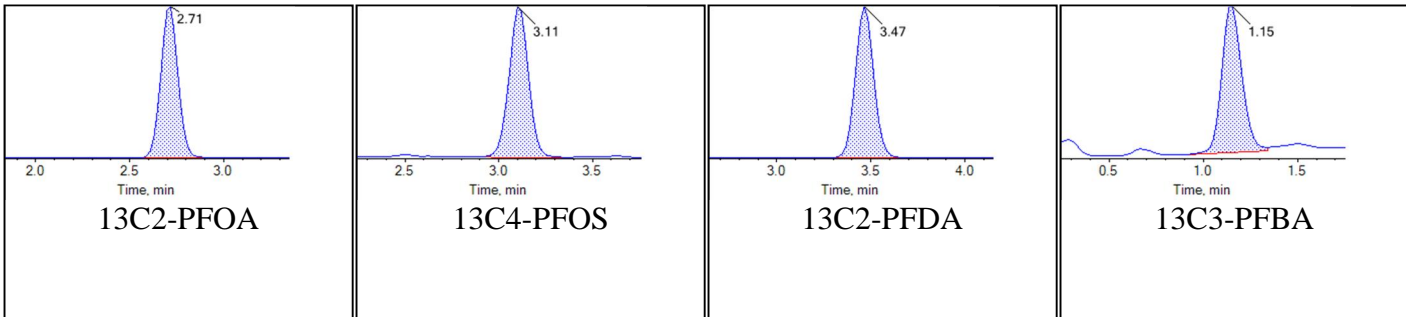
## Chromatograms

### Target Analytes:





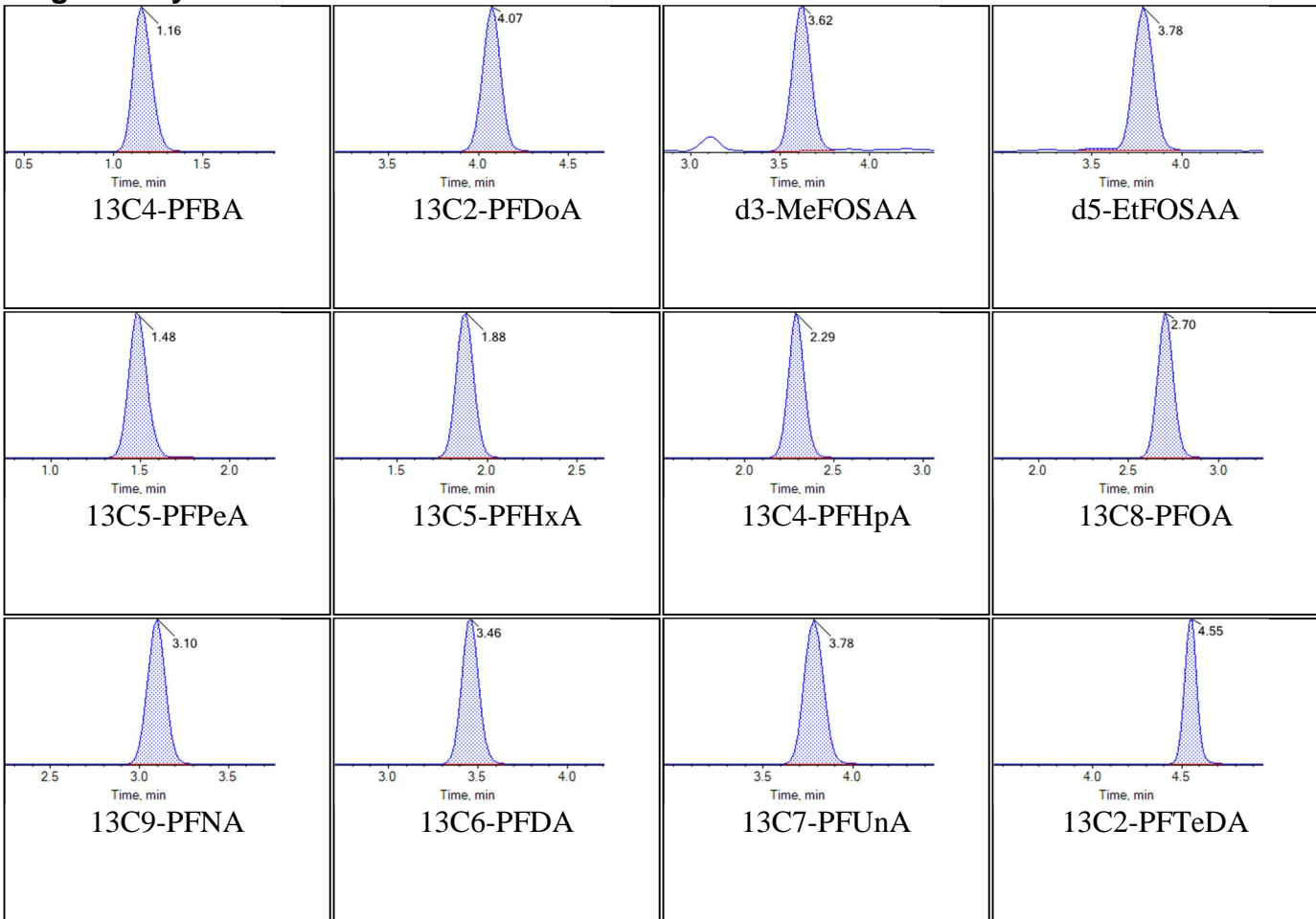
### Internal Standards:

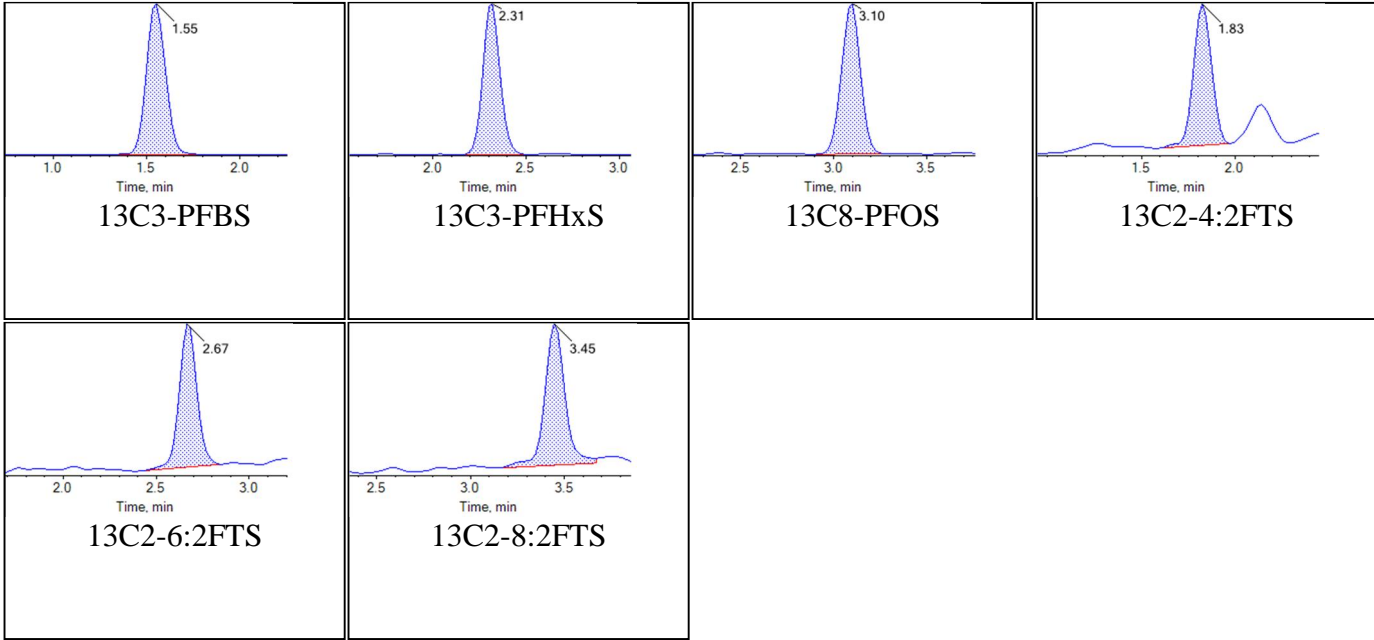


<b>Sample Name</b>	KB77	<b>Injection Vial</b>	6
<b>Sample ID</b>	L5	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:30:23	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

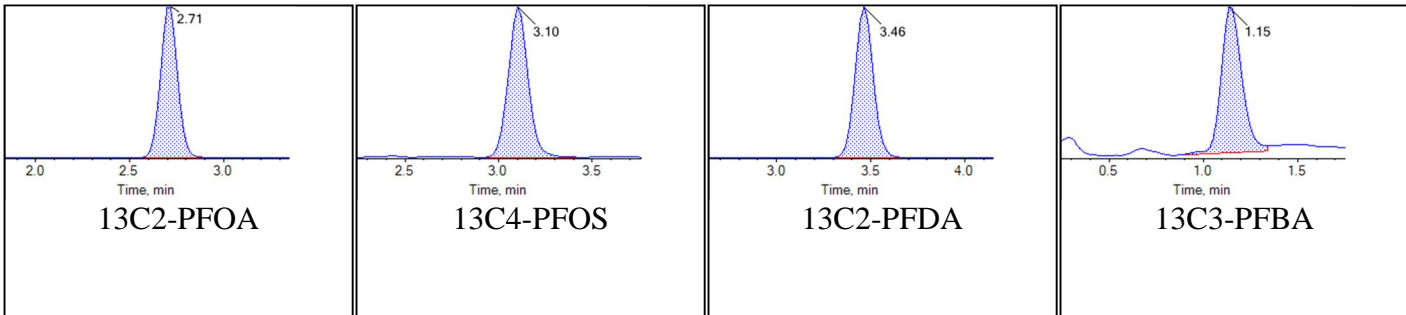
## Chromatograms

### Target Analytes:





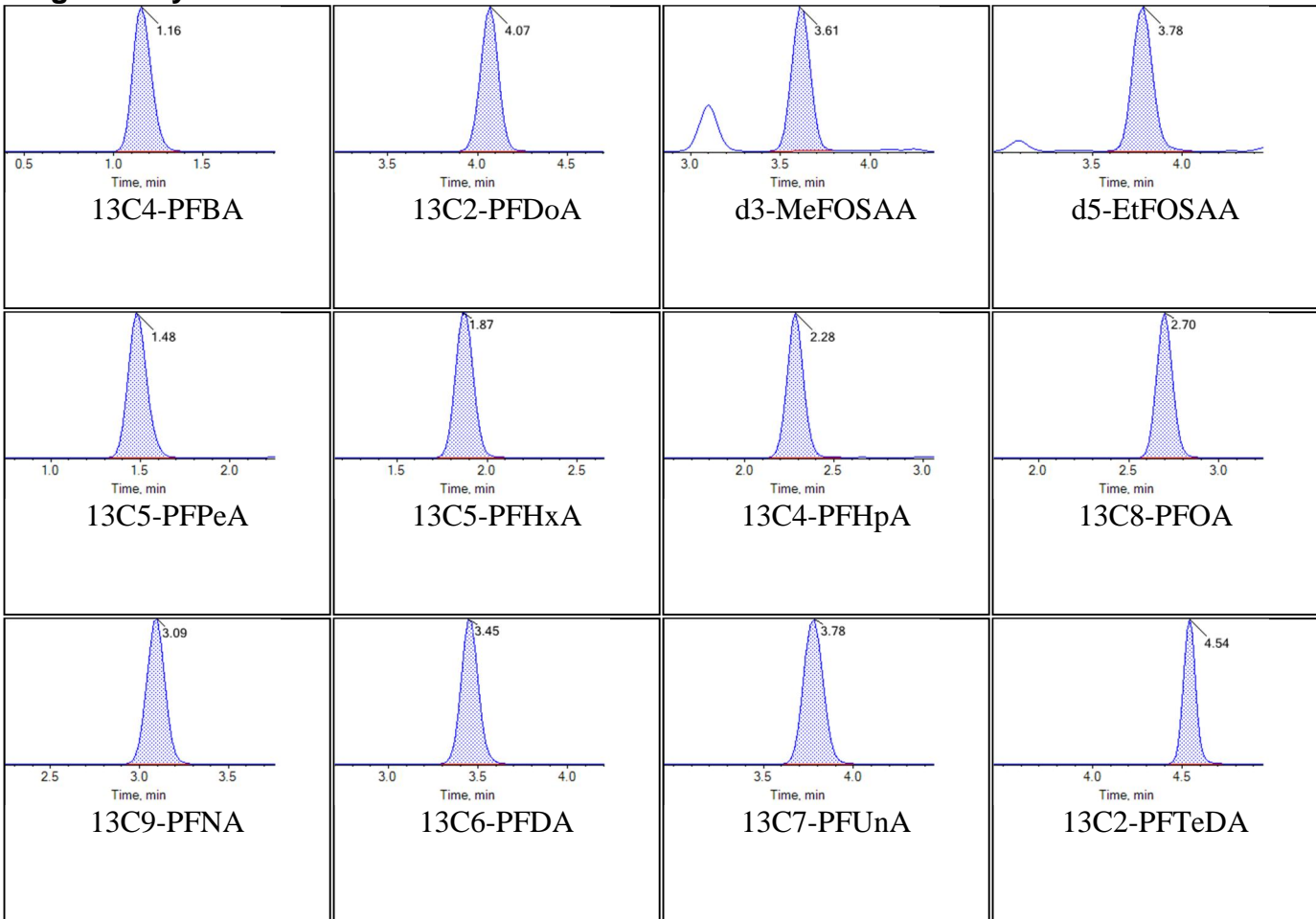
### Internal Standards:

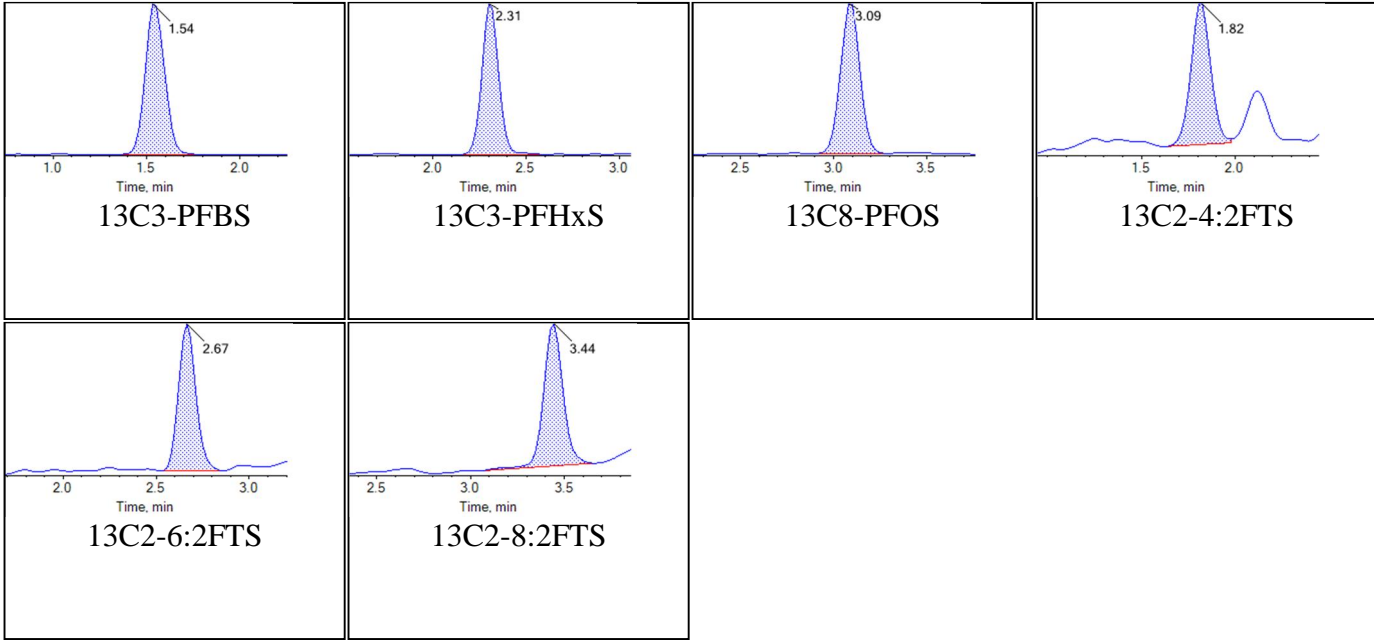


<b>Sample Name</b>	KB78	<b>Injection Vial</b>	7
<b>Sample ID</b>	L6	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:41:14	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

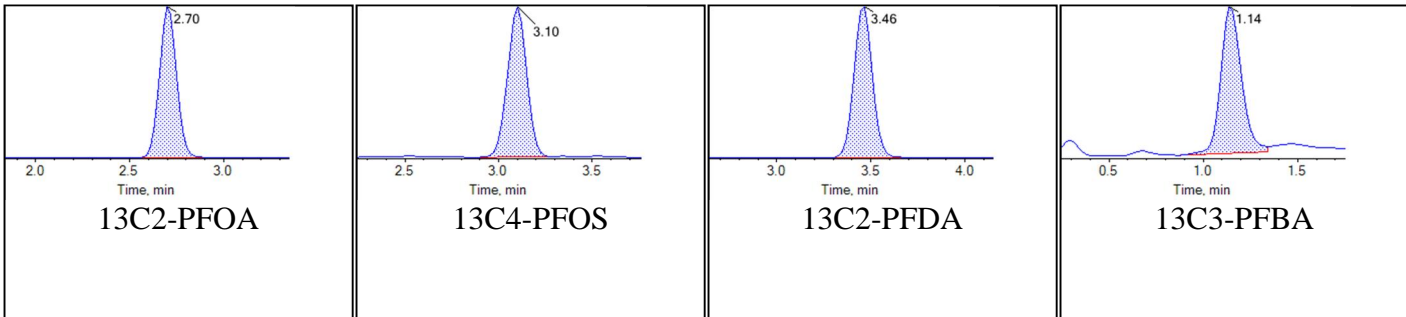
## Chromatograms

### Target Analytes:





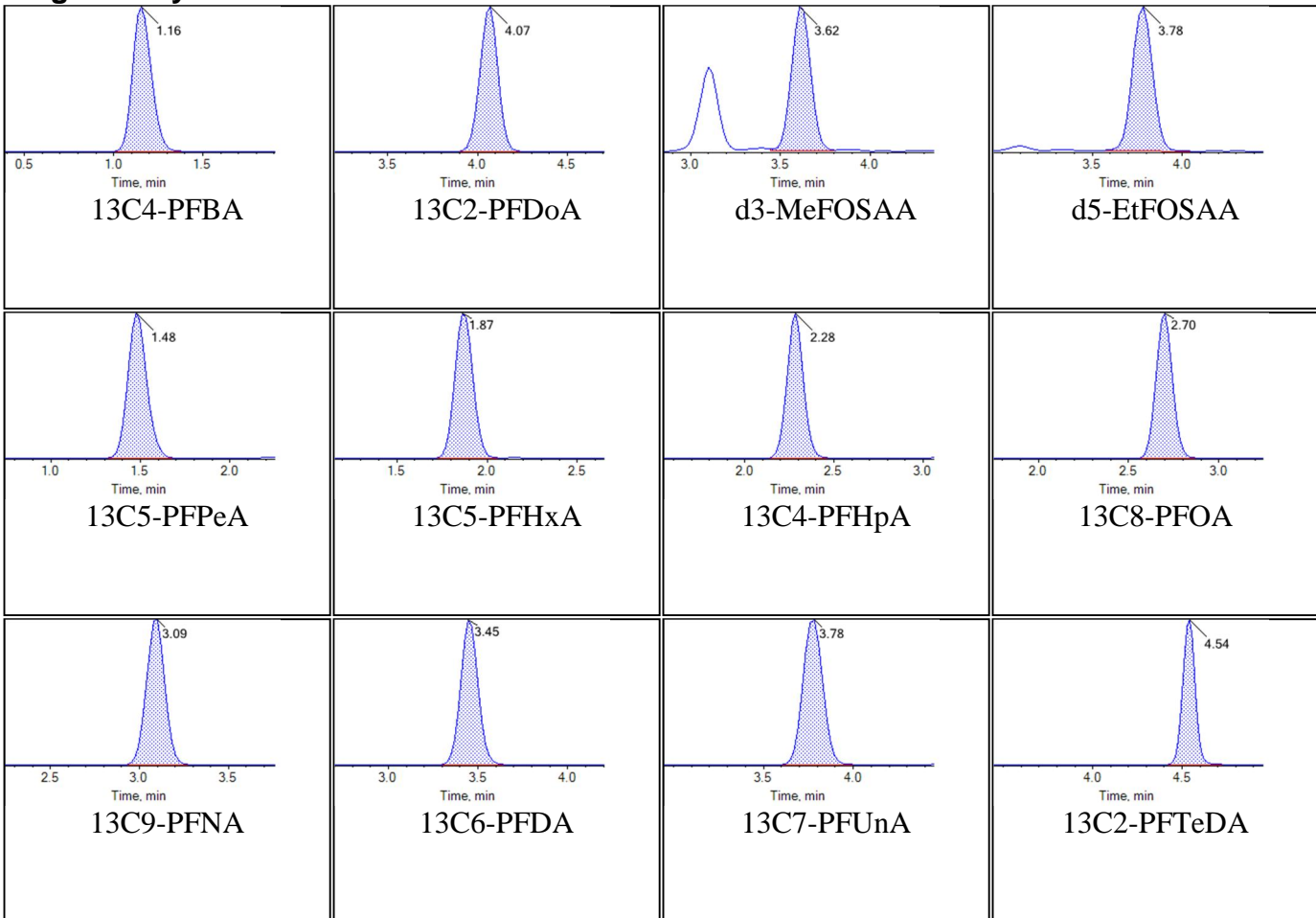
### Internal Standards:

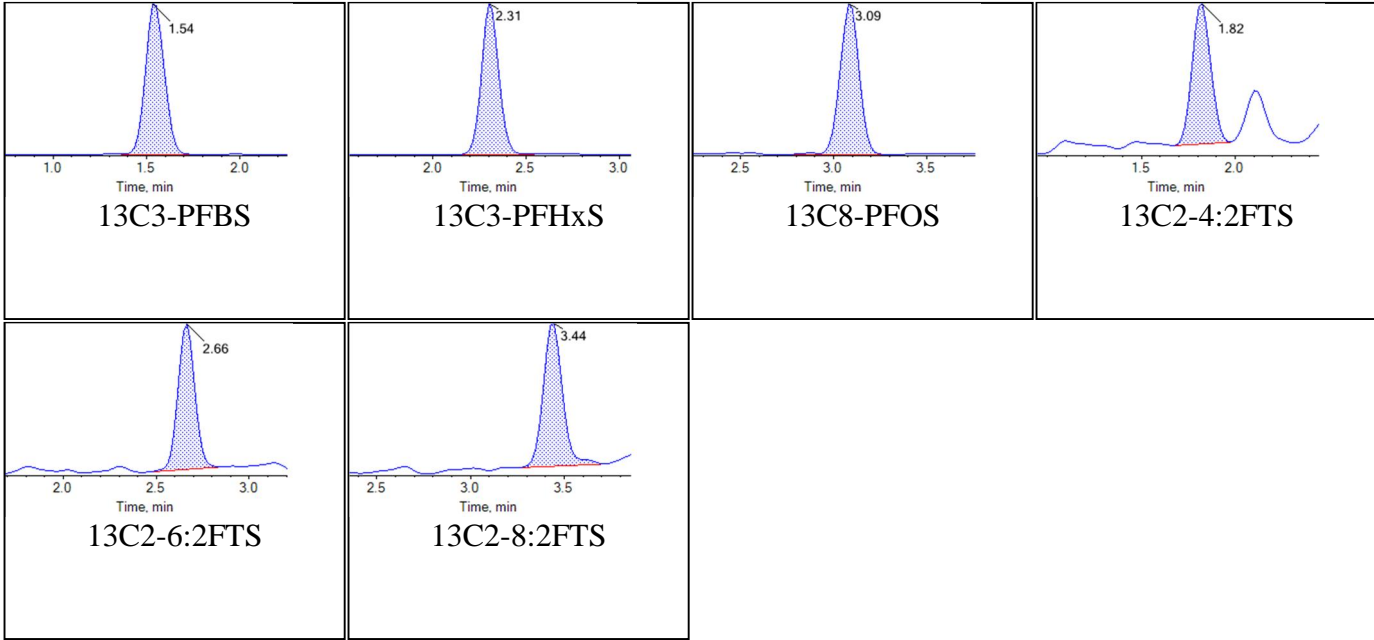


<b>Sample Name</b>	KB79	<b>Injection Vial</b>	8
<b>Sample ID</b>	L7	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Standard	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T20:52:06	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

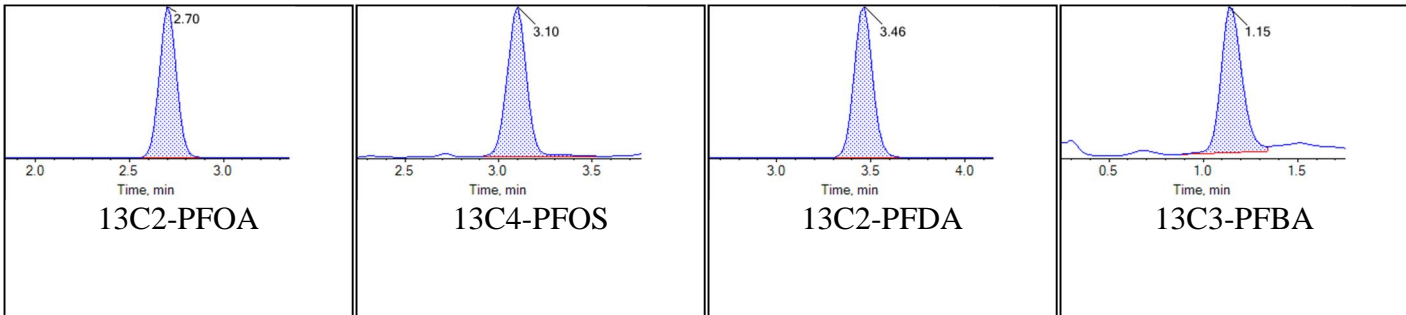
## Chromatograms

### Target Analytes:





### Internal Standards:

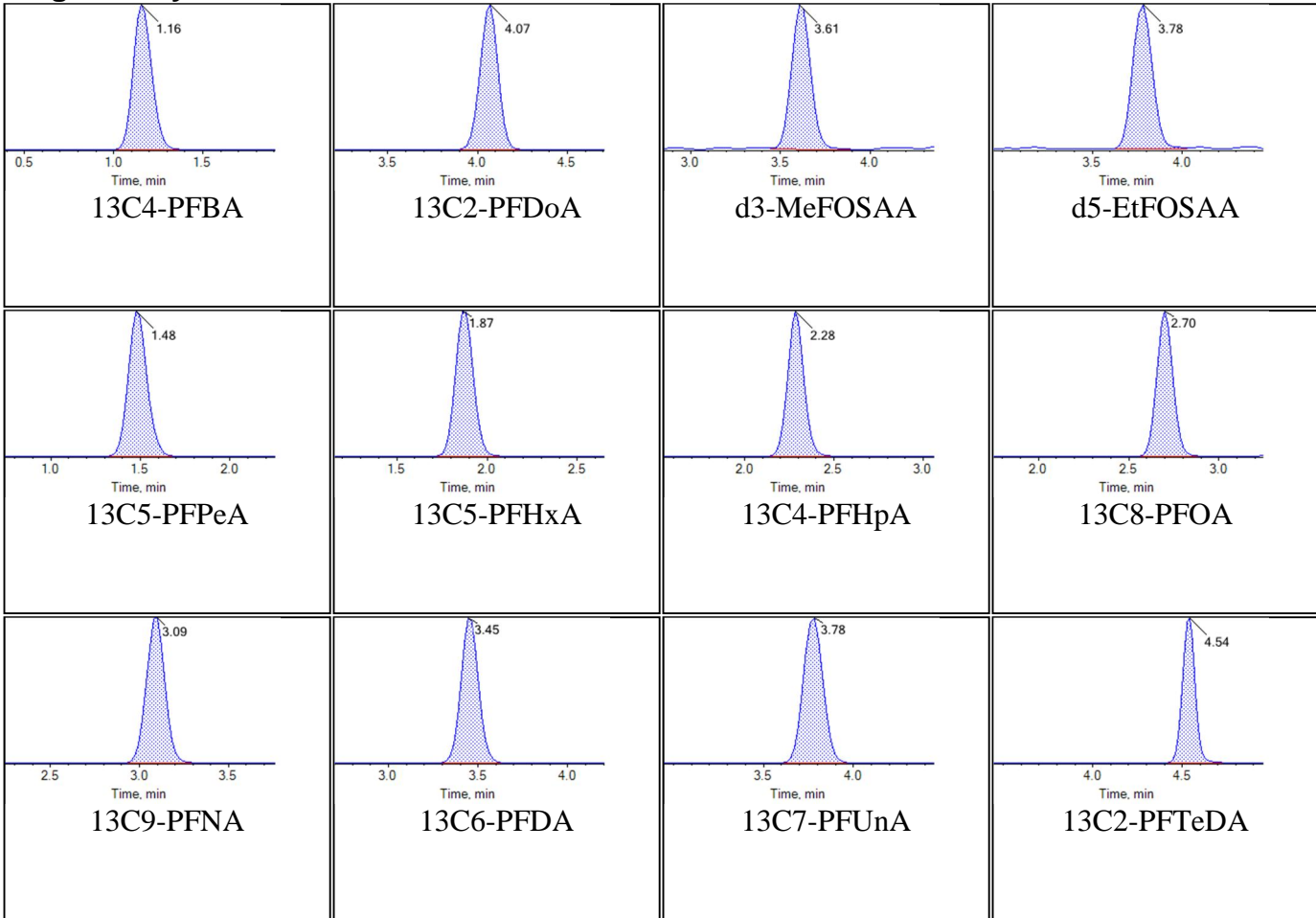


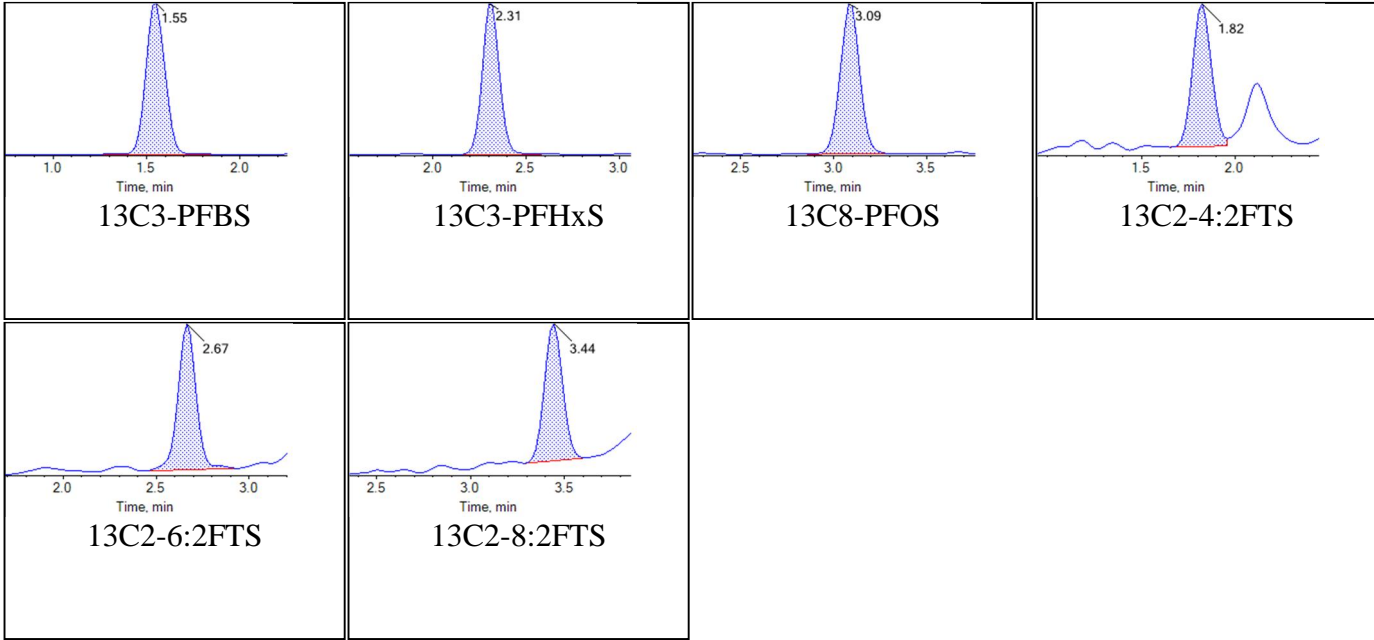


<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	9
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:02:57	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

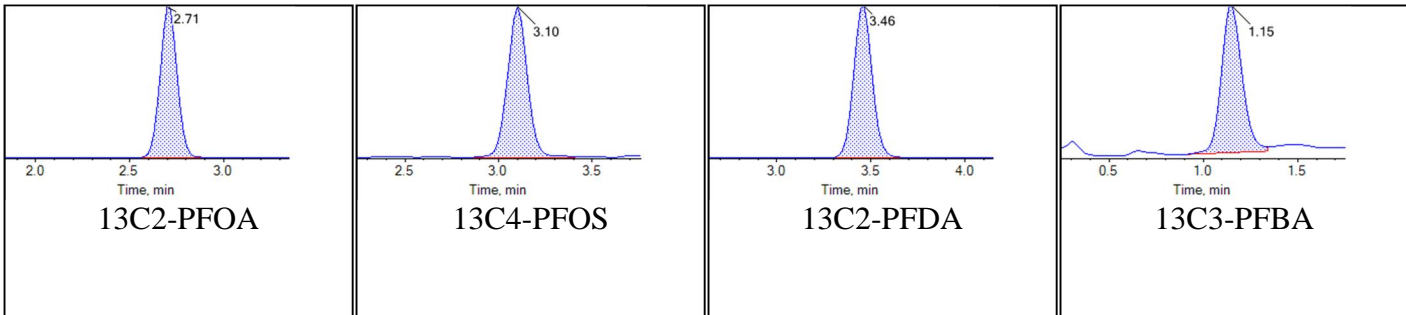
## Chromatograms

### Target Analytes:





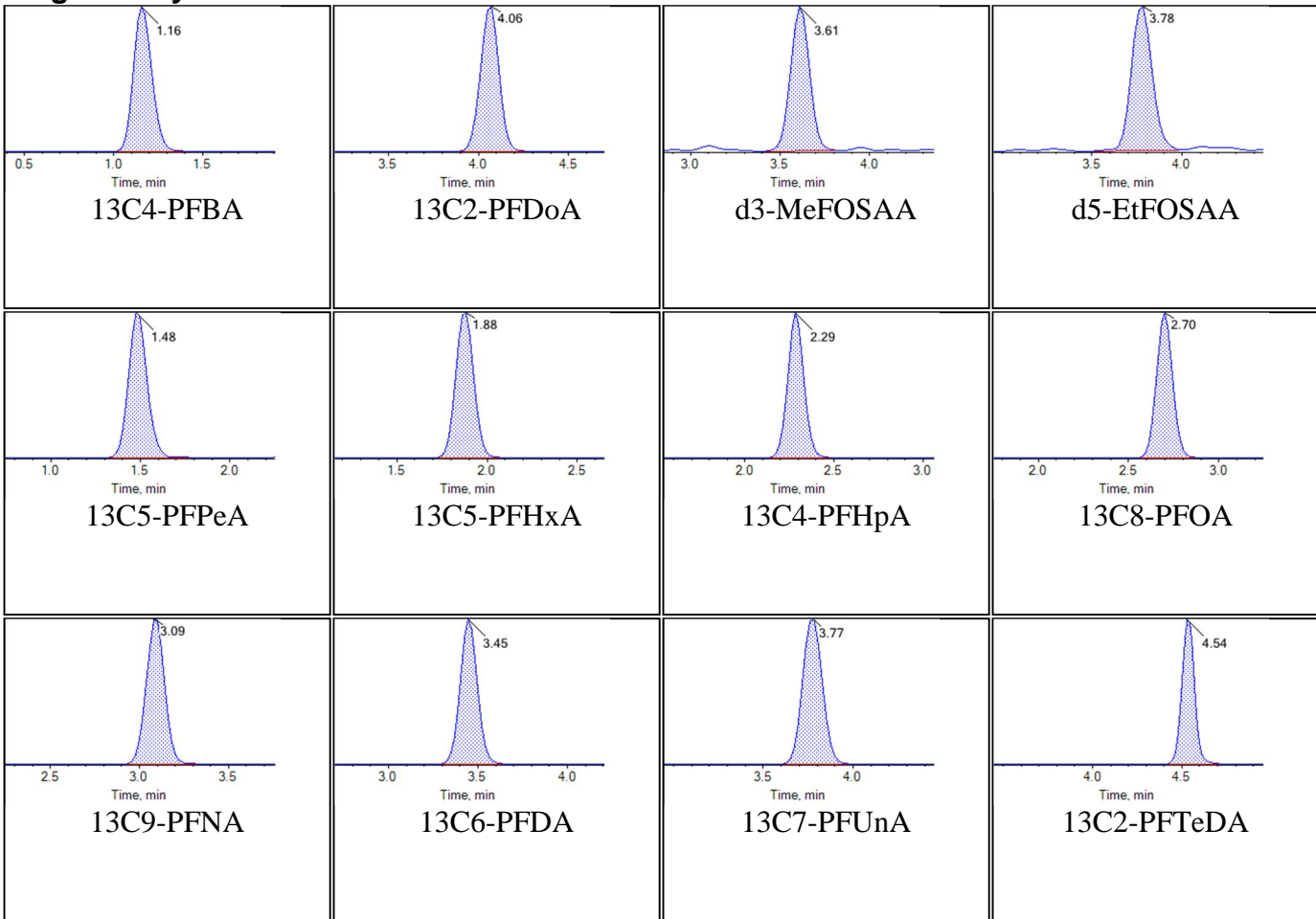
### Internal Standards:

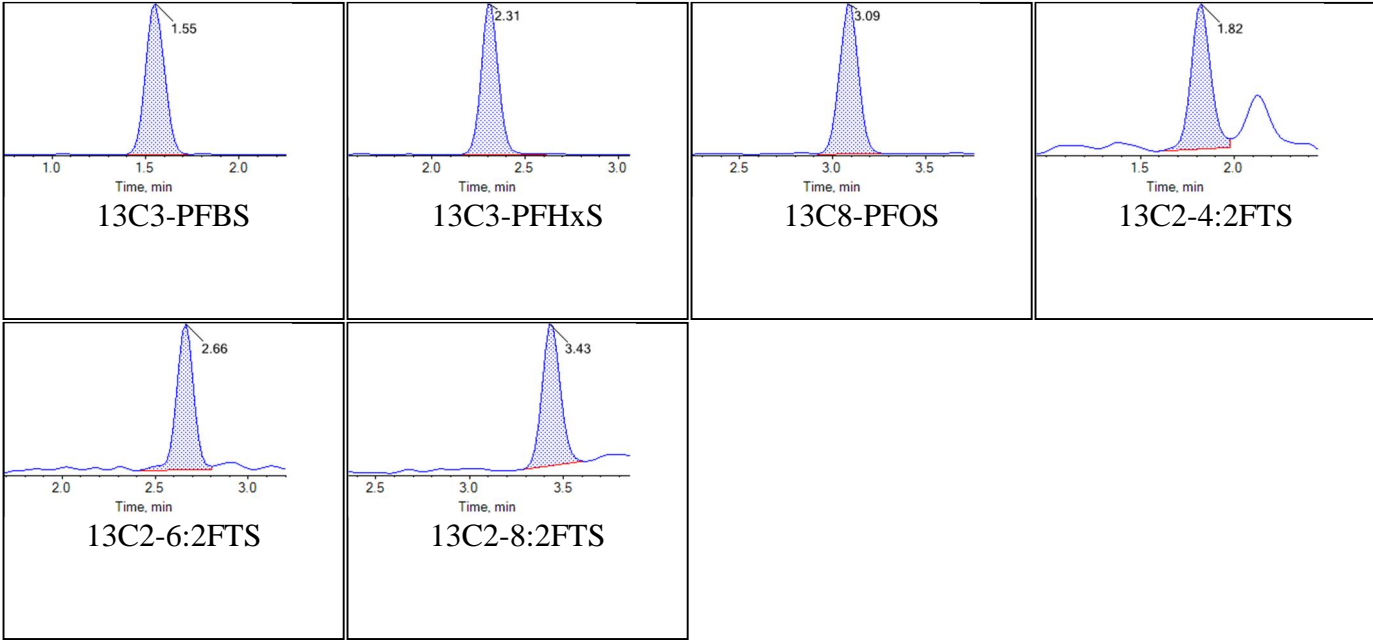


<b>Sample Name</b>	KB81 ICC	<b>Injection Vial</b>	10
<b>Sample ID</b>	ICC	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-17T21:13:49	<b>Data File</b>	Data18-0590_18-01588_18-0589.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

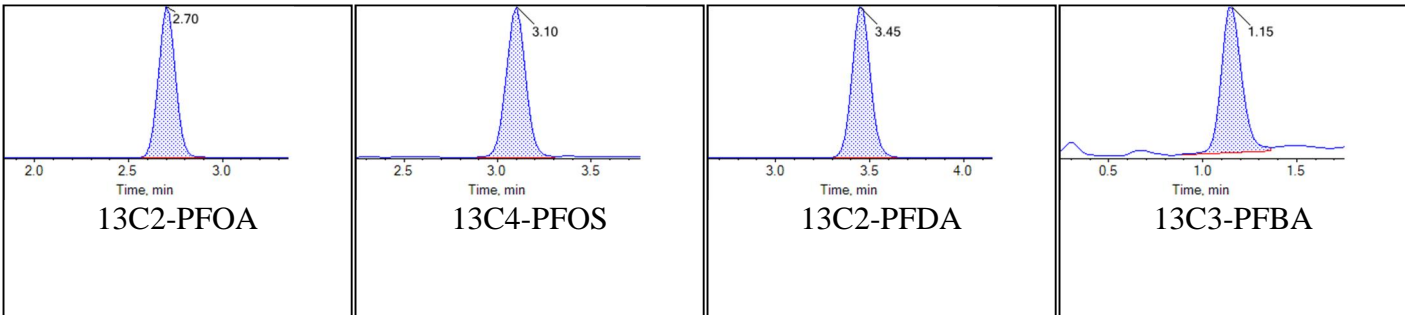
## Chromatograms

### Target Analytes:





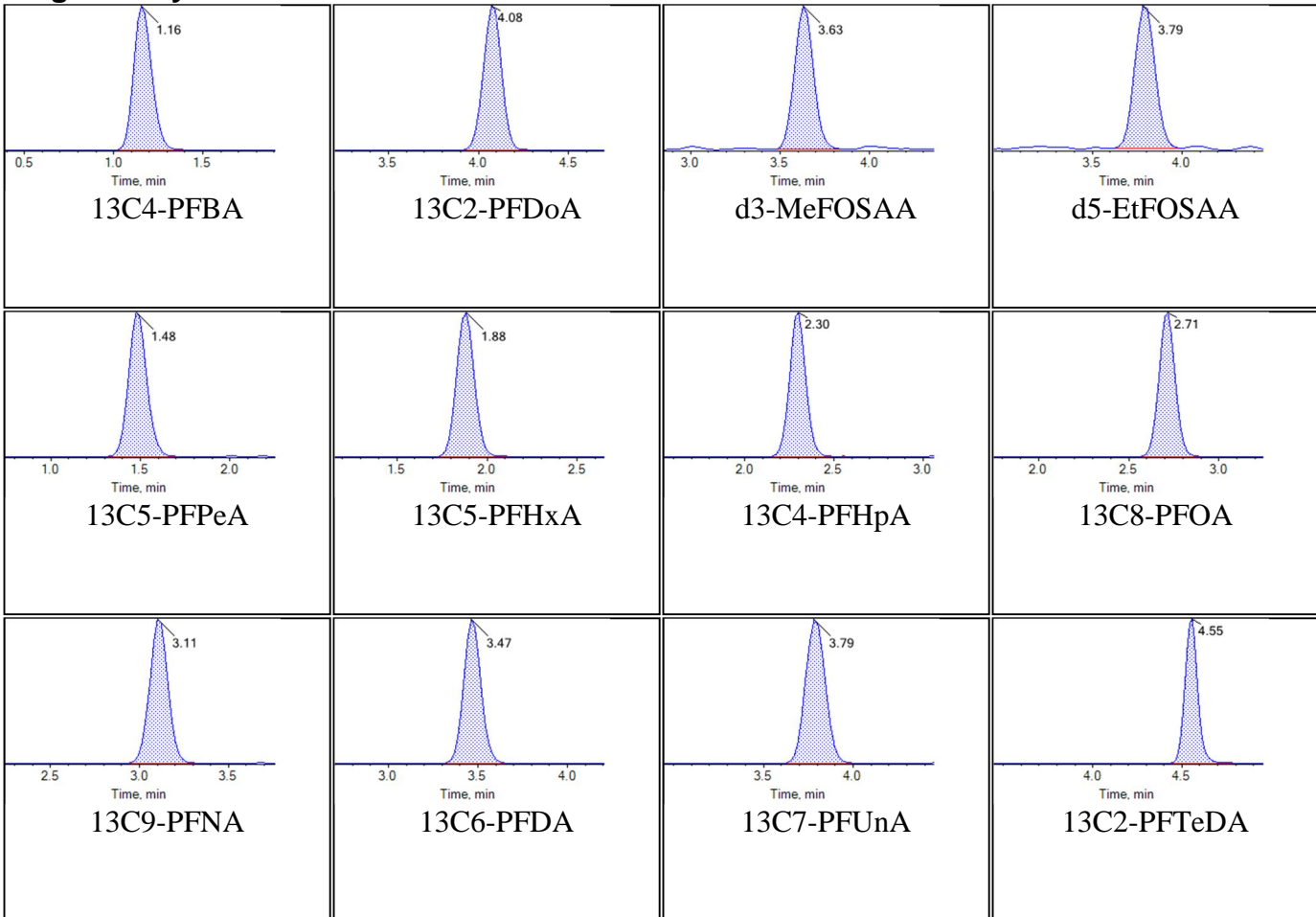
### Internal Standards:

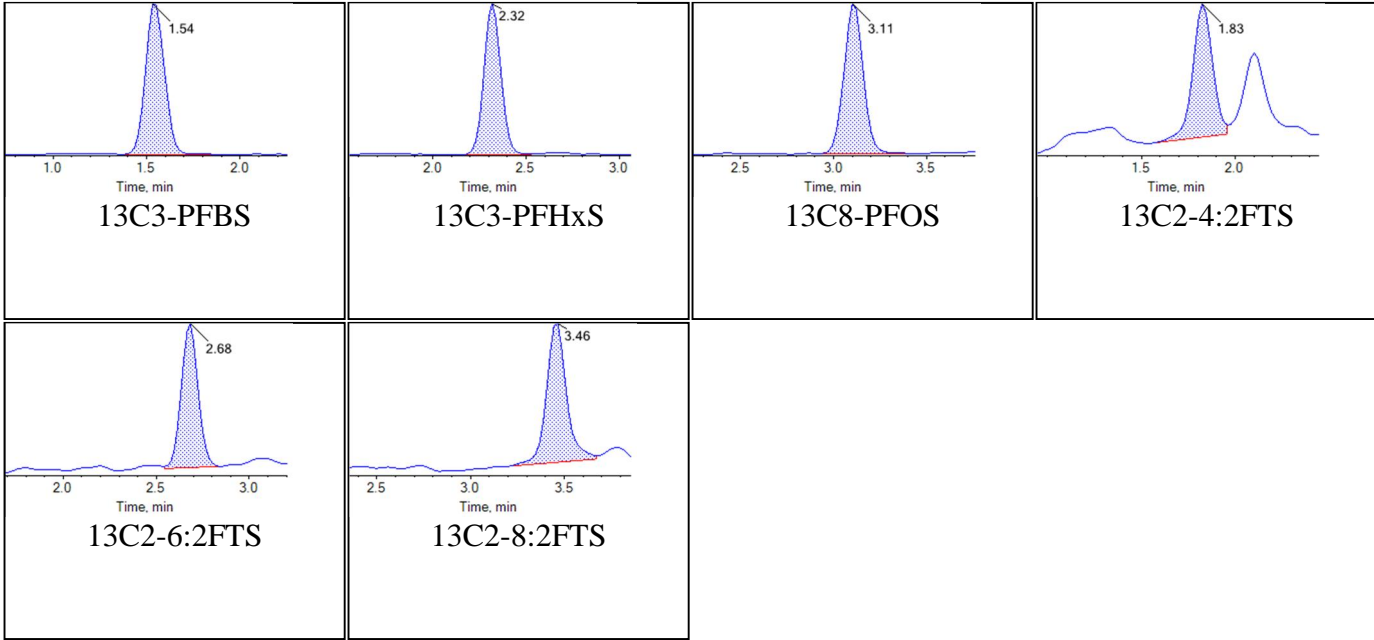


<b>Sample Name</b>	KB75 ISC	<b>Injection Vial</b>	1
<b>Sample ID</b>	Instrument Sensitivity Check	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T18:42:12	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

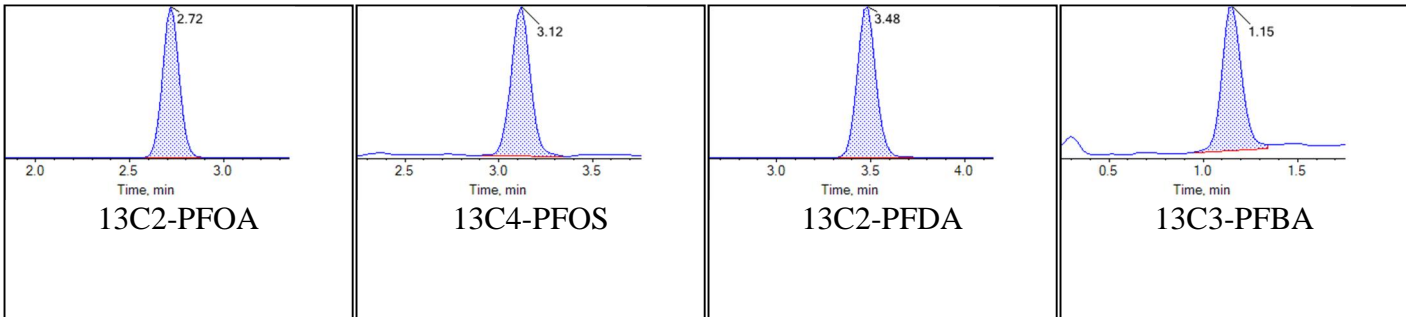
## Chromatograms

### Target Analytes:





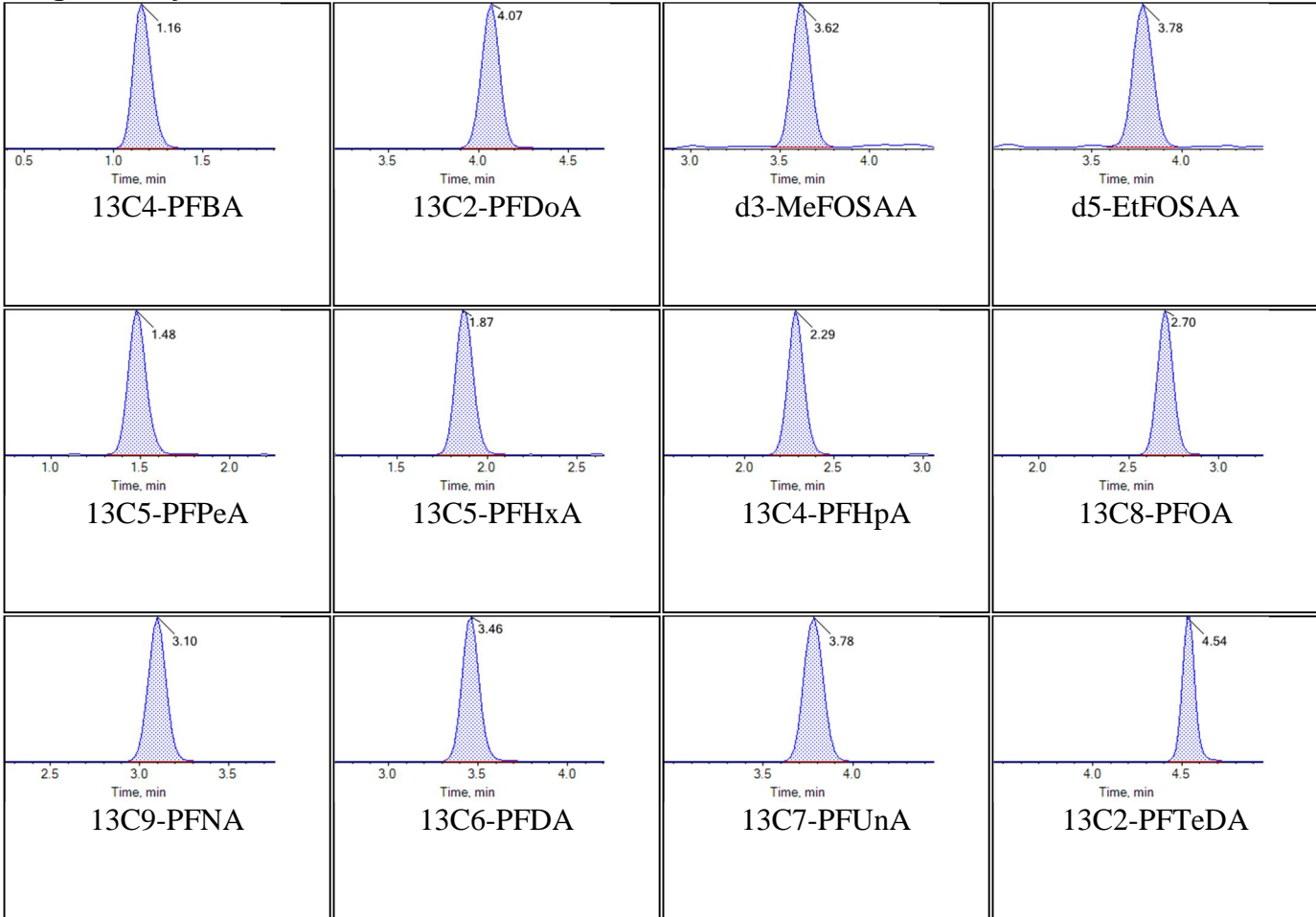
### Internal Standards:

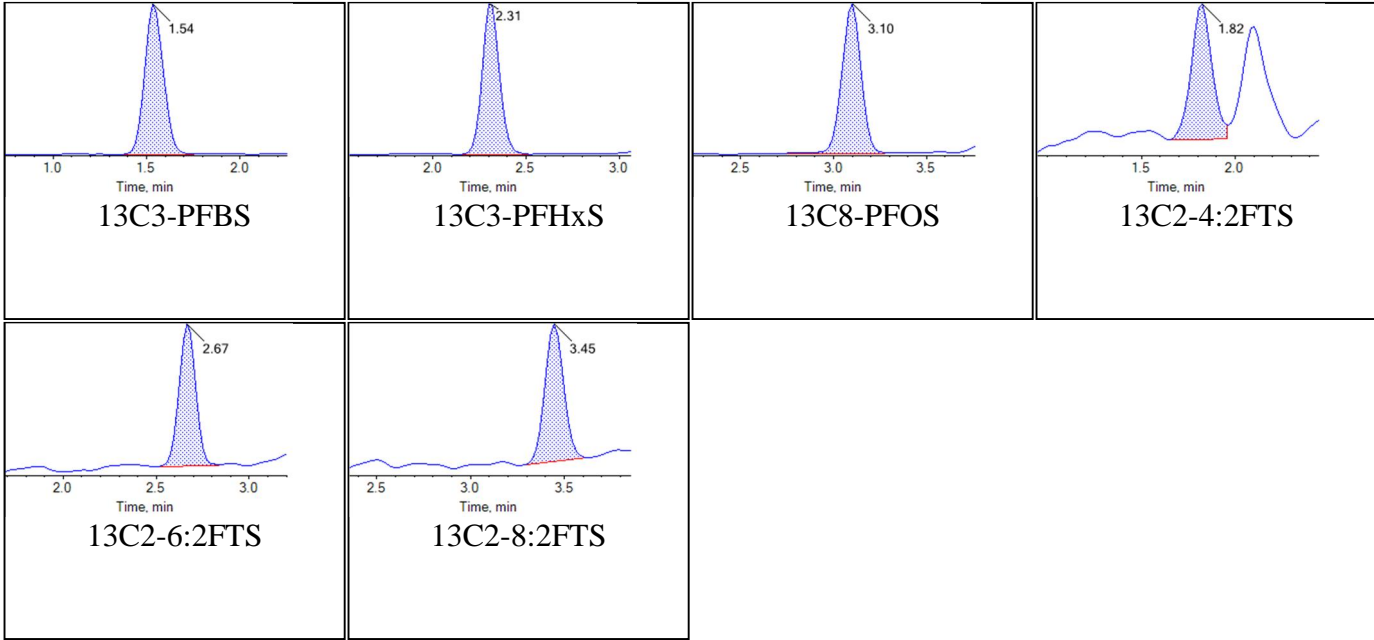


<b>Sample Name</b>	KB80 IB	<b>Injection Vial</b>	2
<b>Sample ID</b>	Instrument Blank	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T18:53:06	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

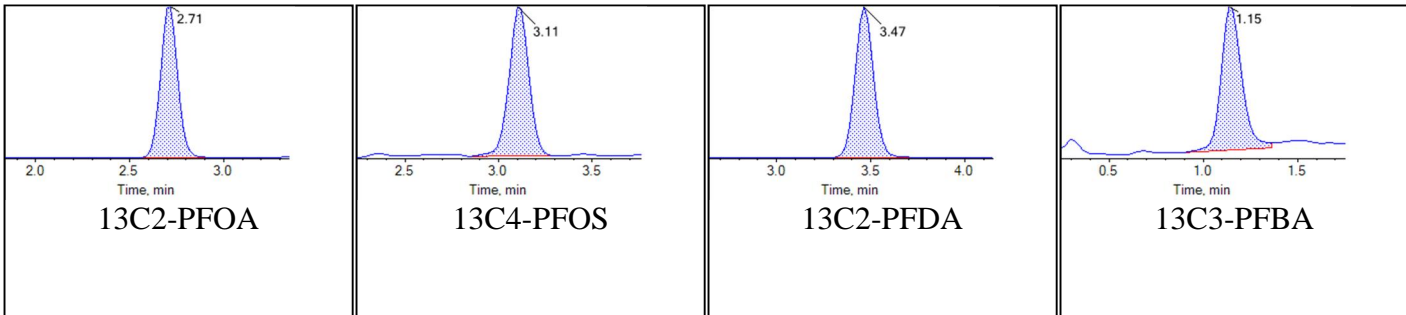
## Chromatograms

### Target Analytes:





### Internal Standards:

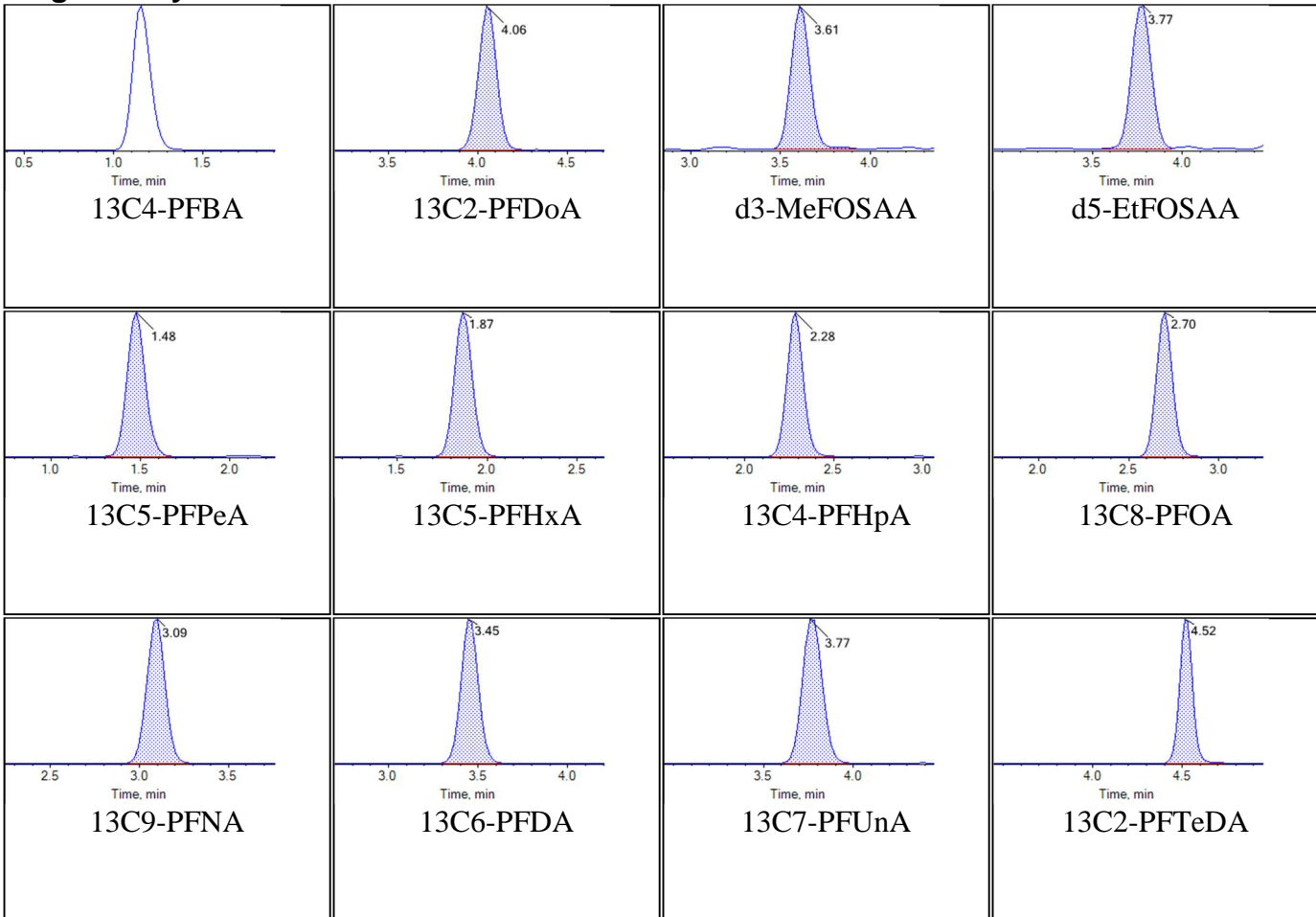


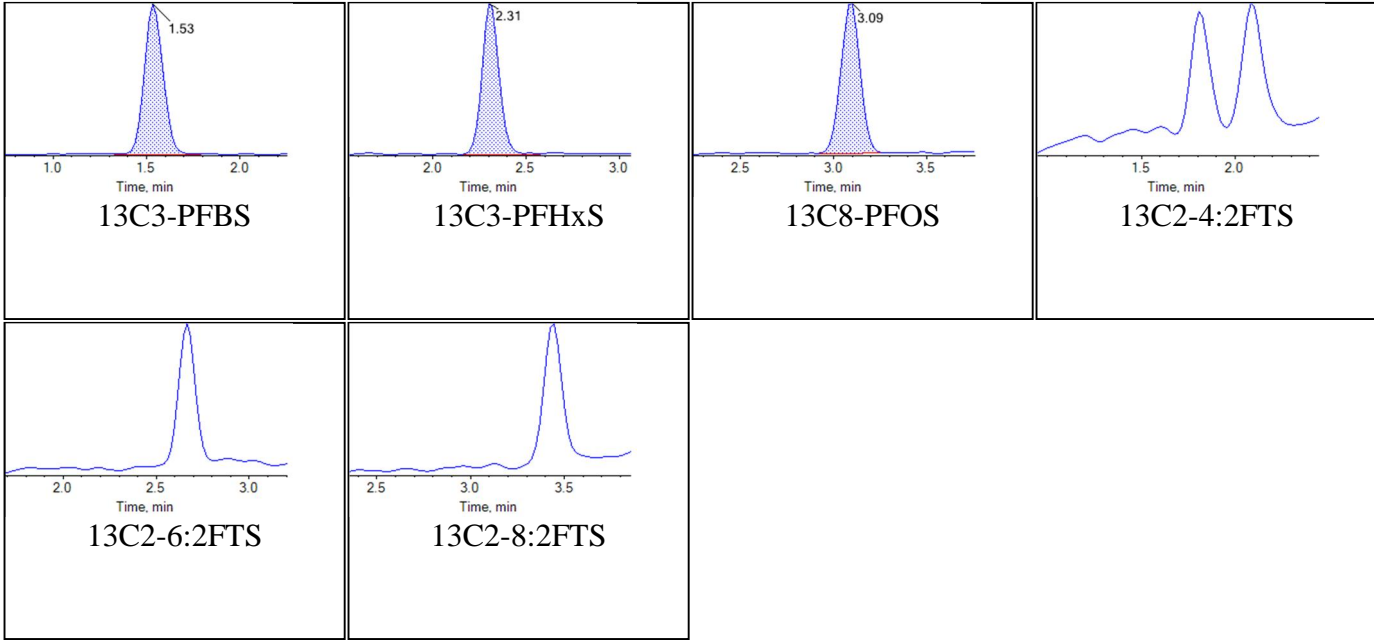


<b>Sample Name</b>	J8460-FS-D(9)	<b>Injection Vial</b>	4
<b>Sample ID</b>	VC-CS12-SB01-0506	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T19:14:54	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

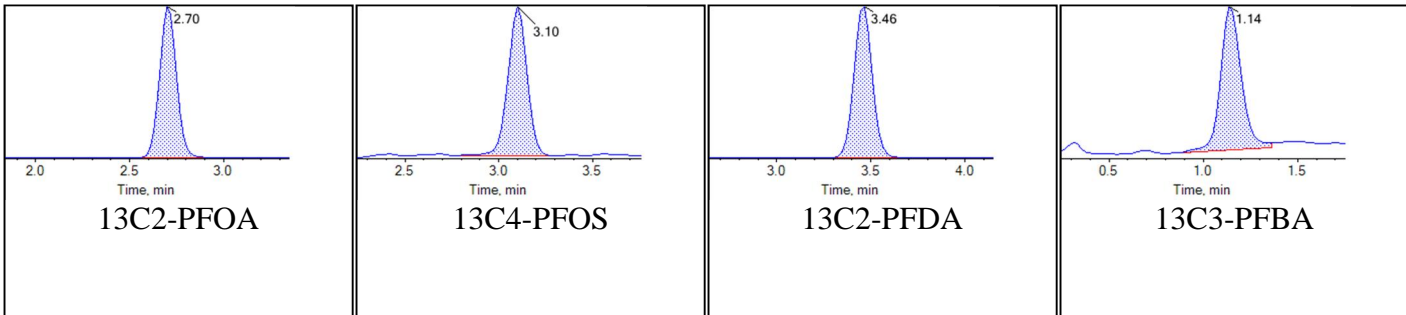
## Chromatograms

### Target Analytes:





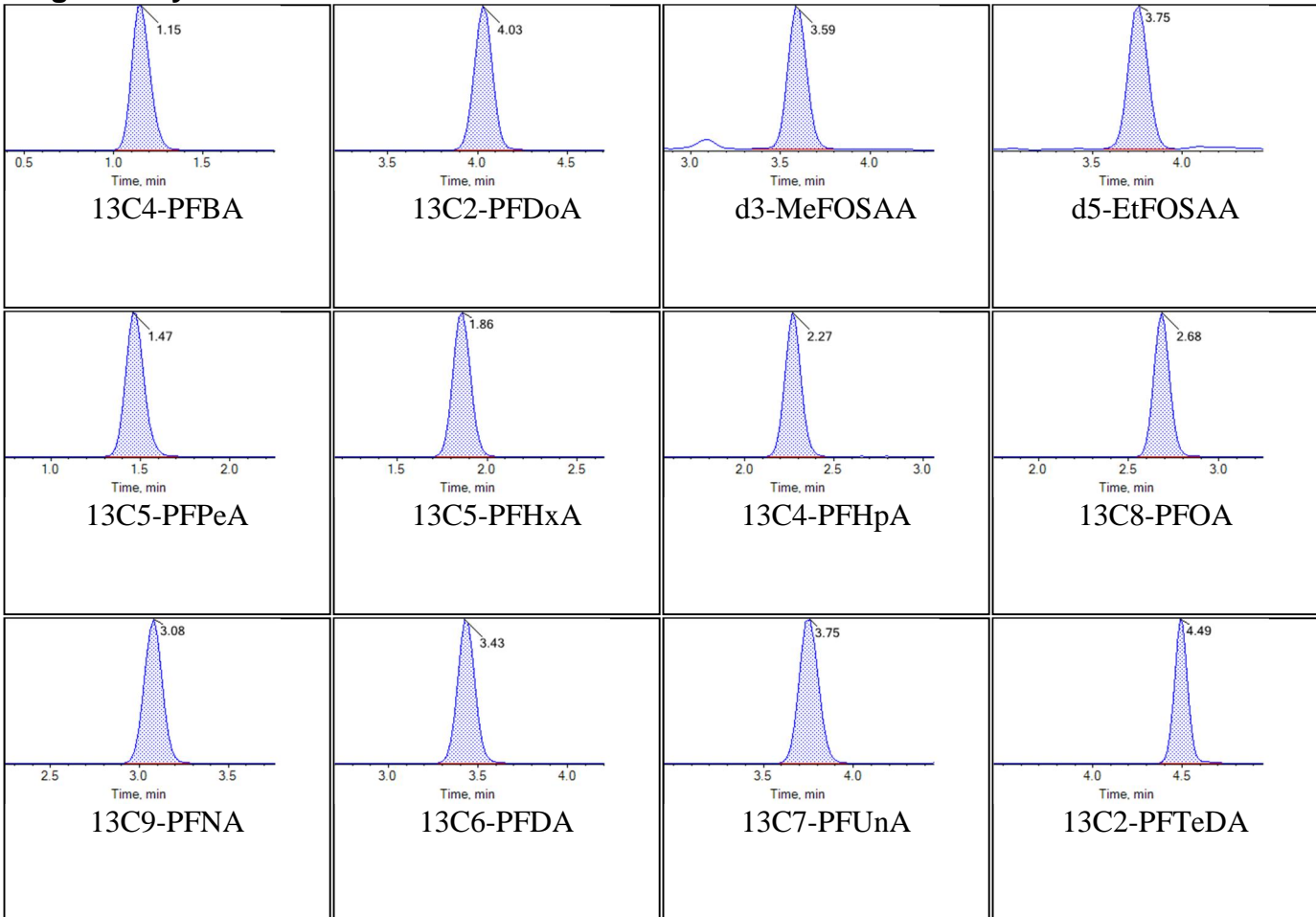
### Internal Standards:

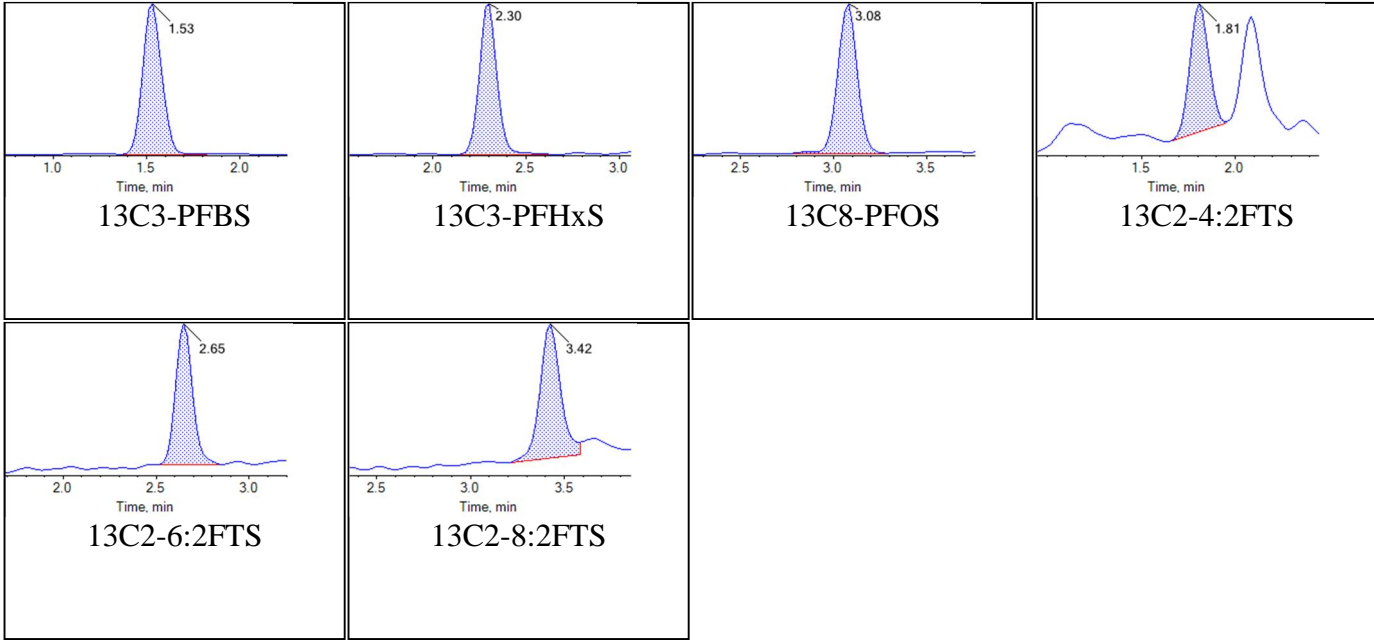


<b>Sample Name</b>	KB77 CCV	<b>Injection Vial</b>	13
<b>Sample ID</b>	CCV	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Quality Control	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-23T20:52:42	<b>Data File</b>	5-0369_10232018_5500.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	5500_10242018_5-0369
<b>Sample Comment</b>			

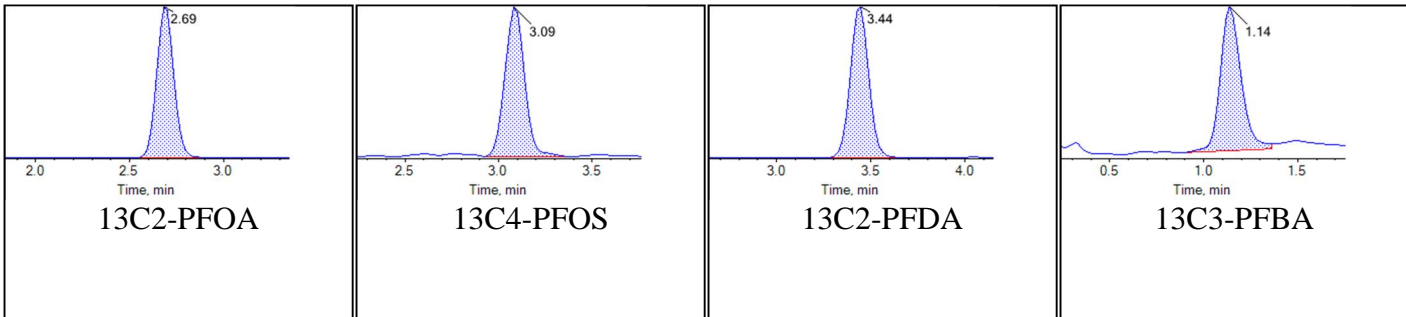
## Chromatograms

### Target Analytes:





### Internal Standards:



# Unused Data

Sample Name	J8460-FS-D(7)	Injection Vial	20
Sample ID	VC-CS12-SB01-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:05:06	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_D
Sample Comment			

## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true
PFHxS_1	399.0 / 80.0	2.30	3.52e5	1241.765928	282.7	true
PFHxS_2	399.0 / 99.0	2.30	1.05e5	1320.372847	423.9	false
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true

Sample Name	J8460-FS-D(7)	Injection Vial	20
Sample ID	VC-CS12-SB01-0506	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-10-19T22:05:06	Data File	10192018.wiff
Acquisition Method	5-0369.dam	Result Table	18222018_SIS_D
Sample Comment			

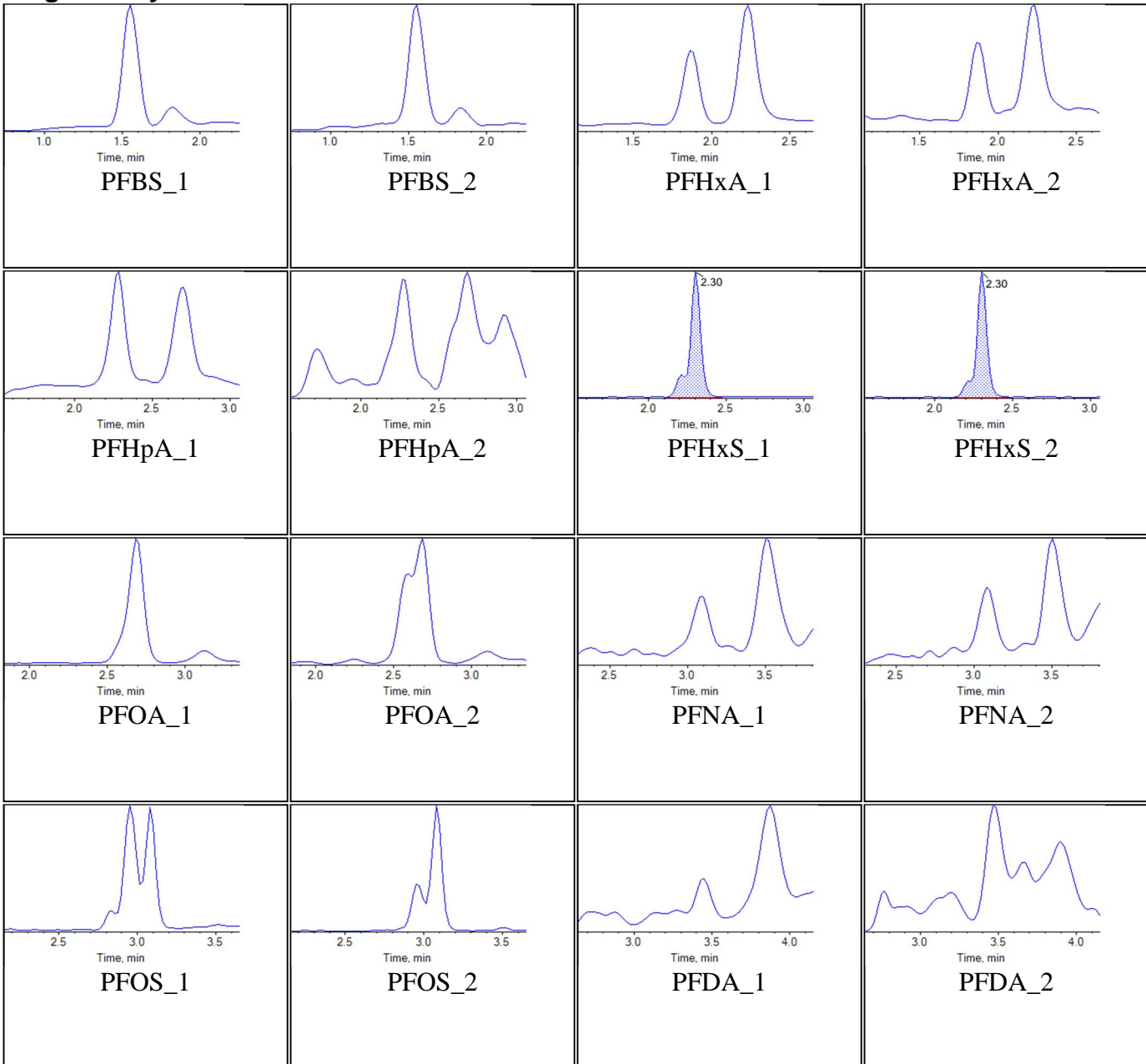
## Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	Signal/Noise Ratio	Modified
13C2-PFDoA	615.0 / 570.0	4.03	73502.76	199.909964	858.1	false
d3-MeFOSAA	573.0 / 419.0	3.59	8872.83	165.817644	146.9	false
d5-EtFOSAA	589.0 / 419.0	3.75	11414.70	195.389037	184.5	false
13C5-PFHxA	318.0 / 273.0	1.86	45768.29	193.175145	591.0	false
13C4-PFHpA	367.0 / 322.0	2.27	55627.51	206.372143	653.6	false
13C8-PFOA	421.0 / 376.0	2.68	70883.85	216.176679	4434.7	false
13C9-PFNA	472.0 / 427.0	3.07	69282.90	185.047037	33159.5	false
13C6-PFDA	519.0 / 474.0	3.43	72660.81	196.151860	784.1	false
13C7-PFUnA	570.0 / 525.0	3.74	64953.48	189.822219	702.7	false
13C2-PFTeDA	715.0 / 670.0	4.49	63686.08	214.535835	1005.8	false
13C3-PFBS	302.0 / 99.0	1.53	22084.52	235.535901	286.8	false
13C3-PFHxS	402.0 / 99.0	2.29	19552.12	230.123679	258.4	false
13C8-PFOS	507.0 / 99.0	3.07	22463.19	234.037407	232.8	false

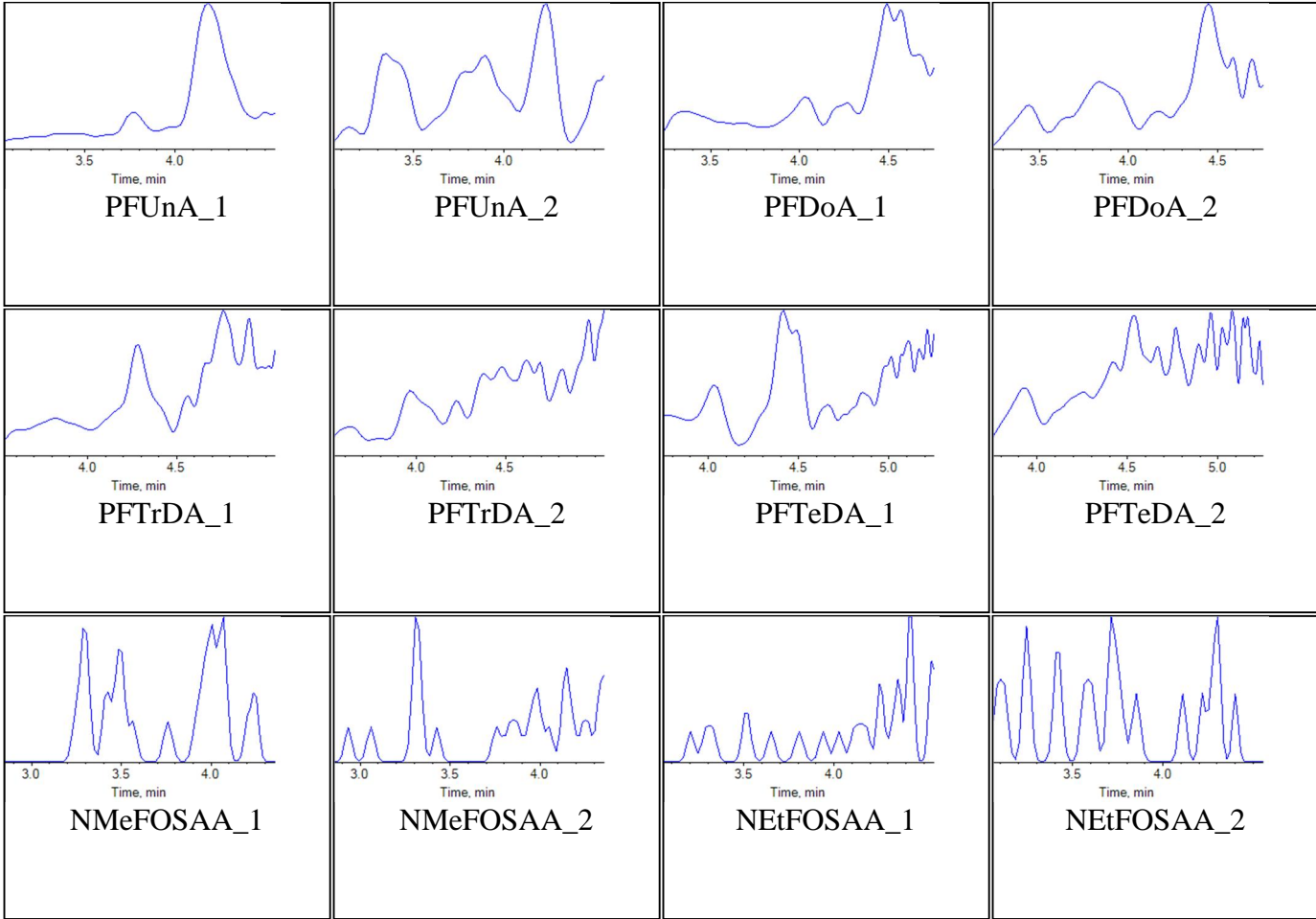
<b>Sample Name</b>	J8460-FS-D(7)	<b>Injection Vial</b>	20
<b>Sample ID</b>	VC-CS12-SB01-0506	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T22:05:06	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_D
<b>Sample Comment</b>			

## Chromatograms

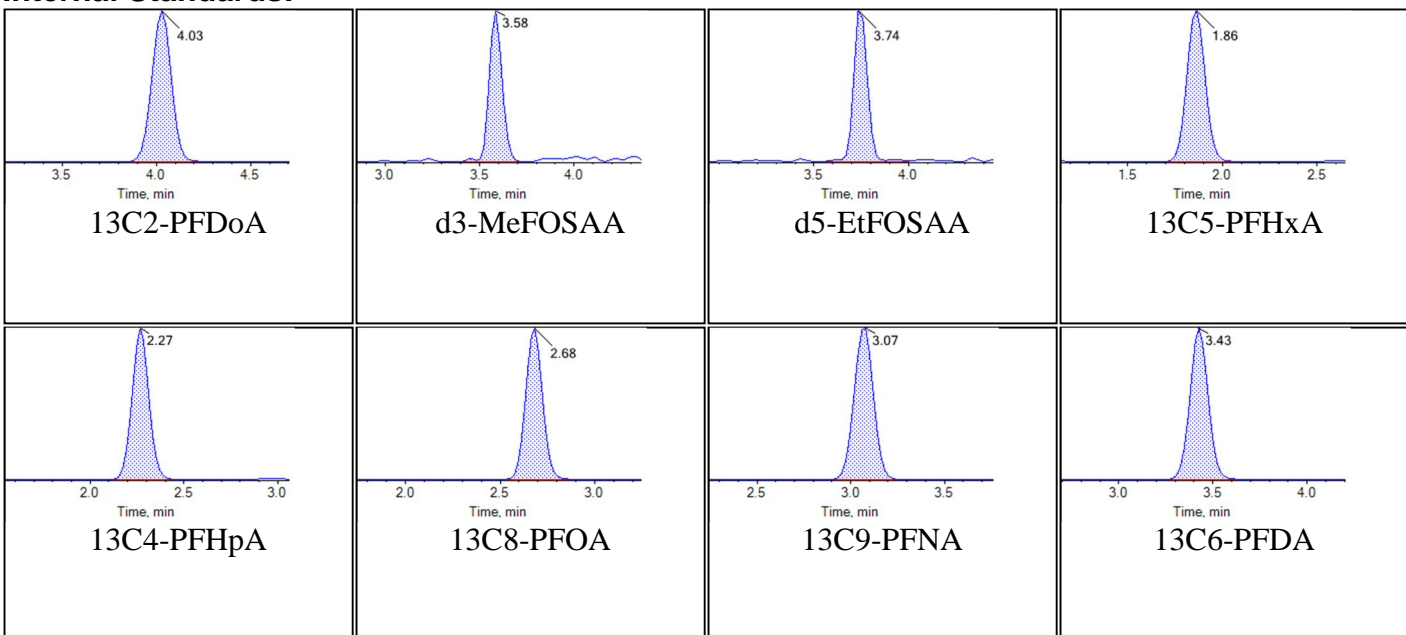
### Target Analytes:





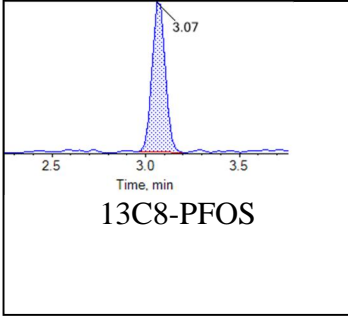
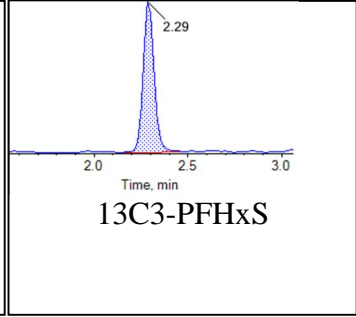
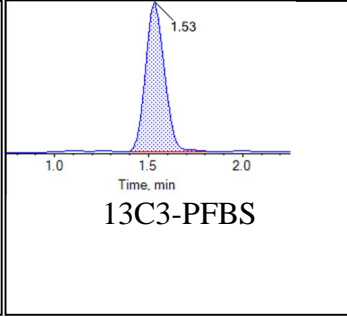
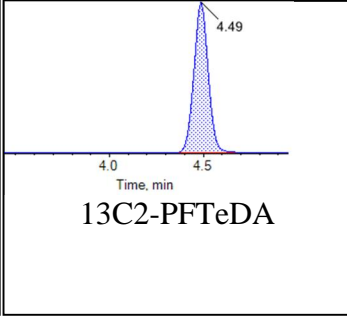
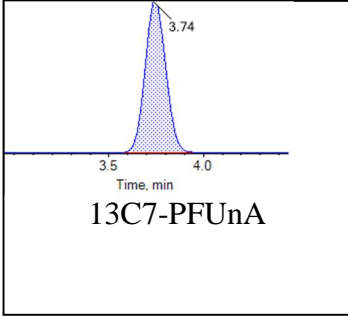


### Internal Standards:



## Chromatogram Report

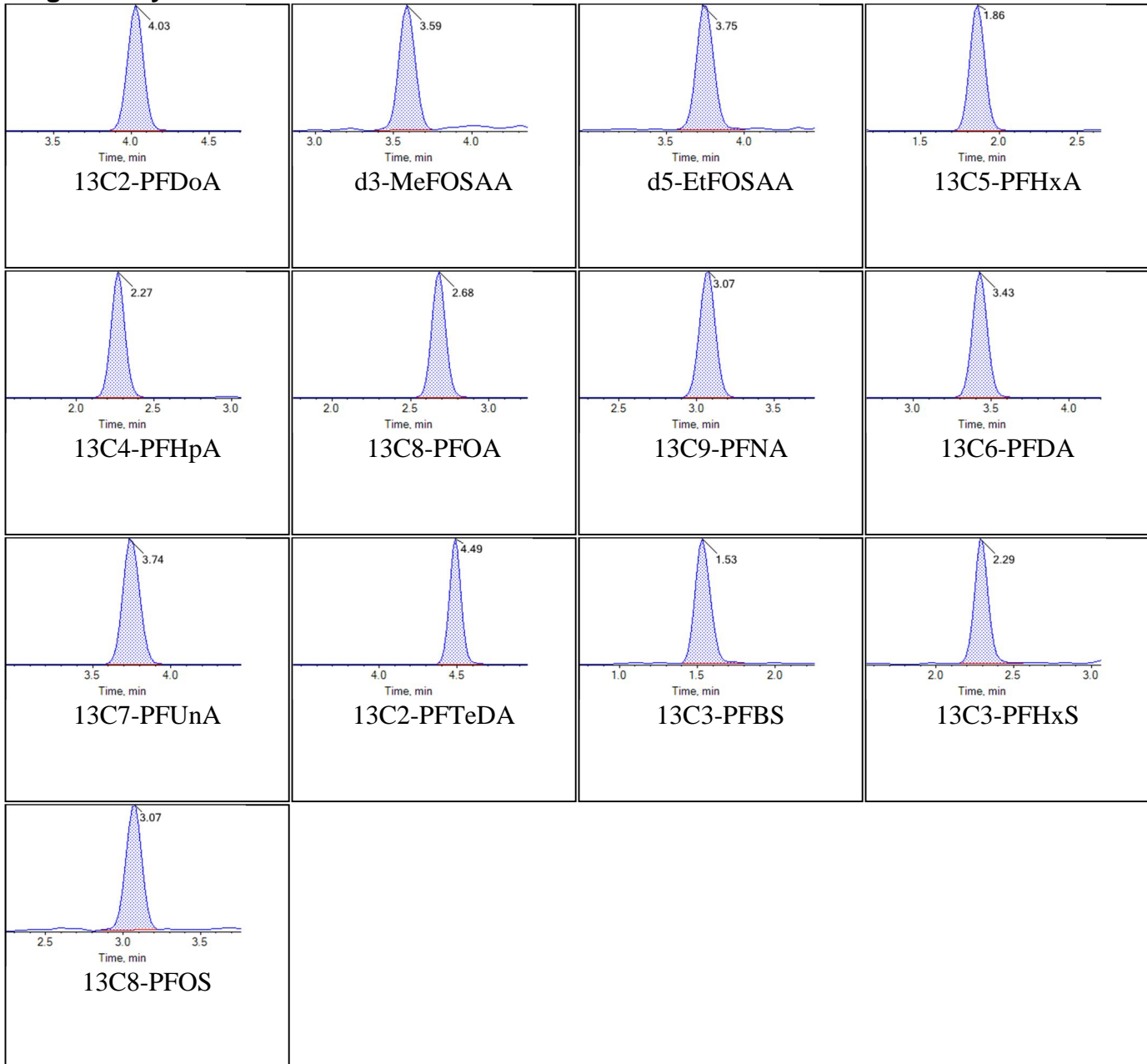
Created with Analyst Reporter  
Printed: 25/10/2018 9:52:30 AM



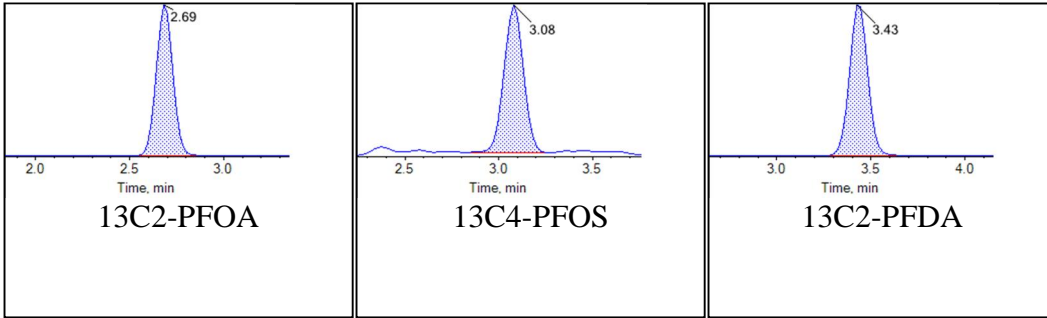
<b>Sample Name</b>	J8460-FS-D(7)	<b>Injection Vial</b>	20
<b>Sample ID</b>	VC-CS12-SB01-0506	<b>Injection Volume</b>	10.00
<b>Sample Type</b>	Unknown	<b>Instrument Name</b>	QTRAP 5500
<b>Acquisition Date</b>	2018-10-19T22:05:06	<b>Data File</b>	10192018.wiff
<b>Acquisition Method</b>	5-0369.dam	<b>Result Table</b>	18222018_SIS_D
<b>Sample Comment</b>			

## Chromatograms

### Target Analytes:



**Internal Standards:**

















**DATA VALIDATION SUMMARY REPORT  
NAVAL BASE VENTURA COUNTY, CALIFORNIA**

Client: CH2M HILL, Inc., Corvallis, Oregon  
 SDG: 18-0588  
 Laboratory: Battelle Norwell Operations, Norwell, Massachusetts  
 Site: Naval Base Ventura County, CTO-4164, California  
 Date: December 28, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	VC-SO-FB07-09262018	J8455-FS	Water
2	VC-SO-EB07-09262018	J8456-FS	Water
3	VC-MS09-DW01-0918	J8457-FS	Water
4	VC-MS09-DW02-0918	J8458-FS	Water
5	VC-MS09-DW03-0918	J8459-FS	Water
6	VC-MS09-DW04-0918	J8460-FS	Water
7	VC-MS09-DW04P-0918	J8461-FS	Water
8	VC-MS09-DW05-0918	J8462-FS	Water
8MS	VC-MS09-DW05-0918MS	J8463-FSMS	Water
8MSD	VC-MS09-DW05-0918MSD	J8464-FSMSD	Water
9	VC-PM367-DW01-0918	J8477-FS	Water
10	VC-PM367-DW02-0918	J8478-FS	Water
11	VC-PM367-DW03-0918	J8479-FS	Water
12	VC-PM367-DW03P-0918	J8480-FS	Water
13	VC-PM367-DW04-0918	J8481-FS	Water
14	VC-AQ-FB08-09272018	J8482-FS	Water
15	VC-AQ-EB08-09272018	J8483-FS	Water

A full data validation was performed on the analytical data for eleven water samples, two aqueous field blank samples, and two aqueous equipment blank samples collected on September 26-27, 2018 by CH2M HILL at the Naval Base Ventura County site in California. The samples were analyzed under the Battelle SOP Method for “Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)”.

Specific method references are as follows:

Analysis  
PFCs

Method References  
SOP 5-369

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the DoD Quality Systems Manual for Environmental Laboratories, Version 5.1, February 2018, the Final Sampling and Analysis Plan Basewide Preliminary Assessments/Site Inspections of Per- and Polyfluoroalkyl Substances, August 2018, and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review,” January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

### ***Organics***

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

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

### **Data Usability Assessment**

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

### **Perfluorinated Compounds (PFCs)**

#### **Data Completeness, Case Narrative & Custody Documentation**

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

### Holding Times

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

### LC/MS Tuning

- All criteria were met.

### Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

### Continuing Calibration

- All percent recovery (%R) criteria were met.

### Method Blank

- The method blanks exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
CR900PB-FS	PFOA	1.39	U	1-2, 14-15
	PFOS	0.21	U	1, 14

### Field QC Blank

- Field QC samples are summarized below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
VC-SO-FB07-09262018	None - ND	-	-	-
VC-SO-EB07-09262018	PFOS	10.60	None	All Associated >10X
VC-AQ-FB08-09272018	PFHxS	0.16	None	All Associated >10X
VC-AQ-EB08-09272018	PFHpA	0.19	None	All Associated >10X
	PFBS	0.30		
	PFHxS	1.98		
	PFOS	11.18		

### Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

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

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
8	5 Compounds	High/Low/High	None - 4X Rule Applies
	PFNA	144%/142%/OK	J
	PFBS	OK/OK/32.3	None for RPD alone

### Laboratory Control Samples

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

### Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

### Target Compound Identification

- All mass spectra and quantitation criteria were met.

### Compound Quantitation

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

### Field Duplicate Sample Precision

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

Compound	VC-MS09-DW04-0918 ng/L	VC-MS09-DW04P-0918 ng/L	RPD	Qualifier
PFHxA	57802.38	60829.93	5%	None
PFHpA	14477.35	13559.54	7%	
PFOA	74334.08	77937.76	5%	
PFNA	1116.82	1199.32	7%	
PFDA	11.81	11.27	5%	
PFBS	15230.86	15926.52	4%	
PFHxS	136806.59	161864.04	17%	
PFOS	113352.52	122970.11	8%	

Compound	VC-PM367-DW03-0918 ng/L	VC-PM367-DW03P-0918 ng/L	RPD	Qualifier
PFHxA	51587.92	50093.99	3%	None
PFHpA	9105.69	9254.99	2%	
PFOA	100511.92	111765.42	11%	
PFNA	250.33	261.33	4%	
PFDA	18.57	24.36	27%	
PFBS	12512.42	12098.11	3%	
PFHxS	97055.91	82521.75	16%	
PFOS	93380.88	111298.60	18%	

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

Signed: *Nancy Weaver* Dated: 12/31/18  
 Nancy Weaver  
 Senior Chemist

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







Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-SO-FB07-09262018				
Battelle ID	J8455-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.270				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	

PFHxA	307-24-4	0.46 U	0.18	0.46	4.63
PFHpA	375-85-9	0.46 U	0.15	0.46	4.63
PFOA	335-67-1	1.17 U	0.17	0.46	4.63
PFNA	375-95-1	0.93 U	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDoA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	0.46 U	0.12	0.46	4.63
PFHxS	355-46-4	0.37 U	0.10	0.37	4.63
PFOS	1763-23-1	0.46 U	0.18	0.46	4.63

**Surrogate Recoveries (%)**

13C5-PFHxA	96
13C4-PFHpA	99
13C8-PFOA	101
13C9-PFNA	94
13C6-PFDA	104
13C7-PFUnA	103
13C2-PFDoA	97
13C2-PFTeDA	97
d3-MeFOSAA	94
d5-EtFOSAA	105
13C3-PFBS	96
13C3-PFHxS	91
13C8-PFOS	105



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

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Client ID		VC-SO-EB07-09262018			
Battelle ID		J8456-FS			
Sample Type		SA			
Collection Date		09/26/2018			
Extraction Date		10/05/2018			
Analysis Date		10/18/2018			
Analytical Instrument		Sciex 5500 LC/MS/MS			
% Moisture		NA			
Matrix		AQ			
Sample Size		0.280			
Size Unit-Basis		L			
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	0.45 U	0.17	0.45	4.46
PFHpA	375-85-9	0.45 U	0.14	0.45	4.46
PFOA	335-67-1	1.86 <i>u</i>	0.16	0.45	4.46
PFNA	375-95-1	0.89 U	0.23	0.89	4.46
PFDA	335-76-2	0.45 U	0.14	0.45	4.46
PFUnA	2058-94-8	0.89 U	0.26	0.89	4.46
PFDoA	307-55-1	0.45 U	0.16	0.45	4.46
PFTTrDA	72629-94-8	0.45 U	0.13	0.45	4.46
PFTeDA	376-06-7	0.89 U	0.22	0.89	4.46
NMeFOSAA	2355-31-9	1.79 U	0.50	1.79	4.46
NEtFOSAA	2991-50-6	0.89 U	0.44	0.89	4.46
PFBS	375-73-5	0.45 U	0.12	0.45	4.46
PFHxS	355-46-4	0.36 U	0.10	0.36	4.46
PFOS	1763-23-1	10.60	0.17	0.45	4.46

MBL

#### Surrogate Recoveries (%)

13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	100
13C9-PFNA	86
13C6-PFDA	95
13C7-PFUnA	98
13C2-PFDoA	95
13C2-PFTeDA	102
d3-MeFOSAA	81
d5-EtFOSAA	79
13C3-PFBS	87
13C3-PFHxS	95
13C8-PFOS	87



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW01-0918				
Battelle ID	J8457-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.200				
Size Unit-Basis	L				
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	5284.98 D	29.69	78.13	781.25
PFHpA	375-85-9	1259.87 D	5.00	15.63	156.25
PFOA	335-67-1	3749.59 D	11.25	31.25	312.50
PFNA	375-95-1	53.38	0.33	1.25	6.25
PFDA	335-76-2	1.77 J	0.20	0.63	6.25
PFUnA	2058-94-8	1.25 U	0.36	1.25	6.25
PFDoA	307-55-1	0.63 U	0.23	0.63	6.25
PFTeDA	72629-94-8	0.63 U	0.19	0.63	6.25
PFTeDA	376-06-7	1.25 U	0.31	1.25	6.25
NMeFOSAA	2355-31-9	2.50 U	0.70	2.50	6.25
NEtFOSAA	2991-50-6	1.25 U	0.61	1.25	6.25
PFBS	375-73-5	1434.41 D	4.06	15.63	156.25
PFHxS	355-46-4	10555.62 D	17.19	62.50	781.25
PFOS	1763-23-1	7093.19 D	29.69	78.13	781.25

**Surrogate Recoveries (%)**

13C5-PFHxA	98 D
13C4-PFHpA	99 D
13C8-PFOA	103 D
13C9-PFNA	91 D
13C6-PFDA	106 D
13C7-PFUnA	105
13C2-PFDoA	105
13C2-PFTeDA	103
d3-MeFOSAA	106 D
d5-EtFOSAA	113 D
13C3-PFBS	120 D
13C3-PFHxS	115 D
13C8-PFOS	107 D

10/26/2018



Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

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Client ID		VC-MS09-DW02-0918				
Battelle ID		J8458-FS				
Sample Type		SA				
Collection Date		09/26/2018				
Extraction Date		10/05/2018				
Analysis Date		10/18/2018				
Analytical Instrument		Sciex 5500 LC/MS/MS				
% Moisture		NA				
Matrix		GW				
Sample Size		0.010				
Size Unit-Basis		L				
Units		ng/L				
			MDL	LOD	LOQ	
PFHxA	307-24-4	36652.49	P	118.75	312.50	3125.00
PFHpA	375-85-9	9572.78	P	100.00	312.50	3125.00
PFOA	335-67-1	21814.86	P	112.50	312.50	3125.00
PFNA	375-95-1	277.20		6.50	25.00	125.00
PFDA	335-76-2	14.12	J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00	U	7.25	25.00	125.00
PFDoA	307-55-1	12.50	U	4.50	12.50	125.00
PFTeDA	72629-94-8	12.50	U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00	U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00	U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00	U	12.25	25.00	125.00
PFBS	375-73-5	14062.20	P	81.25	312.50	3125.00
PFHxS	355-46-4	73397.07	P	137.50	500.00	6250.00
PFOS	1763-23-1	56964.32	P	237.50	625.00	6250.00

#### Surrogate Recoveries (%)

13C5-PFHxA	97	P
13C4-PFHpA	98	P
13C8-PFOA	104	P
13C9-PFNA	96	P
13C6-PFDA	87	
13C7-PFUnA	93	
13C2-PFDoA	85	
13C2-PFTeDA	90	
d3-MeFOSAA	123	
d5-EtFOSAA	129	
13C3-PFBS	103	P
13C3-PFHxS	91	P
13C8-PFOS	100	P



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-MS09-DW03-0918			
Battelle ID		J8459-FS			
Sample Type		SA			
Collection Date		09/26/2018			
Extraction Date		10/05/2018			
Analysis Date		10/18/2018			
Analytical Instrument		Sciex 5500 LC/MS/MS			
% Moisture		NA			
Matrix		GW			
Sample Size		0.010			
Size Unit-Basis		L			
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	145528.90 <b>D</b>	395.83	1041.66	10416.63
PFHpA	375-85-9	24231.70 <b>D</b>	100.00	312.50	3125.00
PFOA	335-67-1	120697.97 <b>D</b>	375.00	1041.66	10416.63
PFNA	375-95-1	523.01	6.50	25.00	125.00
PFDA	335-76-2	12.50 U	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDoA	307-55-1	12.50 U	4.50	12.50	125.00
PFTeDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	35610.05 <b>D</b>	81.25	312.50	3125.00
PFHxS	355-46-4	121785.13 <b>D</b>	229.17	833.33	10416.63
PFOS	1763-23-1	20235.36 <b>D</b>	118.75	312.50	3125.00

#### Surrogate Recoveries (%)

13C5-PFHxA	99 <b>D</b>
13C4-PFHpA	96 <b>D</b>
13C8-PFOA	101 <b>D</b>
13C9-PFNA	96 <b>D</b>
13C6-PFDA	109 <b>D</b>
13C7-PFUnA	89
13C2-PFDoA	87
13C2-PFTeDA	81
d3-MeFOSAA	100
d5-EtFOSAA	95
13C3-PFBS	93 <b>D</b>
13C3-PFHxS	95 <b>D</b>
13C8-PFOS	98 <b>D</b>



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-MS09-DW04-0918			
Battelle ID		J8460-FS			
Sample Type		SA			
Collection Date		09/26/2018			
Extraction Date		10/05/2018			
Analysis Date		10/18/2018			
Analytical Instrument		Sciex 5500 LC/MS/MS			
% Moisture		NA			
Matrix		GW			
Sample Size		0.010			
Size Unit-Basis		L			
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	57802.38 D	296.88	781.25	7812.50
PFHpA	375-85-9	14477.35 D	100.00	312.50	3125.00
PFOA	335-67-1	74334.08 D	281.25	781.25	7812.50
PFNA	375-95-1	1116.82	6.50	25.00	125.00
PFDA	335-76-2	11.81 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDoA	307-55-1	12.50 U	4.50	12.50	125.00
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	15230.86 D	81.25	312.50	3125.00
PFHxS	355-46-4	136806.59 D	859.38	3125.00	39062.50
PFOS	1763-23-1	113352.52 D	296.88	781.25	7812.50

#### Surrogate Recoveries (%)

13C5-PFHxA	108 D
13C4-PFHpA	106 D
13C8-PFOA	112 D
13C9-PFNA	99 D
13C6-PFDA	102
13C7-PFUnA	105
13C2-PFDoA	101
13C2-PFTeDA	104
d3-MeFOSAA	119 D
d5-EtFOSAA	114 D
13C3-PFBS	129 D
13C3-PFHxS	104 D
13C8-PFOS	111 D



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-MS09-DW04P-0918				
Battelle ID	J8461-FS				
Sample Type	SA				
Collection Date	09/26/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.010				
Size Unit-Basis	L				
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	60829.93 D	296.88	781.25	7812.50
PFHpA	375-85-9	13559.54 D	100.00	312.50	3125.00
PFOA	335-67-1	77937.76 D	281.25	781.25	7812.50
PFNA	375-95-1	1199.32	6.50	25.00	125.00
PFDA	335-76-2	11.27 J	4.00	12.50	125.00
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00
PFDoA	307-55-1	12.50 U	4.50	12.50	125.00
PFTeDA	72629-94-8	12.50 U	3.75	12.50	125.00
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00
PFBS	375-73-5	15926.52 D	81.25	312.50	3125.00
PFHxS	355-46-4	161864.04 D	859.38	3125.00	39062.50
PFOS	1763-23-1	122970.11 D	1484.38	3906.25	39062.50

**Surrogate Recoveries (%)**

13C5-PFHxA	97 D
13C4-PFHpA	98 D
13C8-PFOA	101 D
13C9-PFNA	99 D
13C6-PFDA	98
13C7-PFUnA	103
13C2-PFDoA	94
13C2-PFTeDA	91
d3-MeFOSAA	138
d5-EtFOSAA	117 D
13C3-PFBS	107 D
13C3-PFHxS	74 D
13C8-PFOS	84 D

11/2/2018



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID VC-MS09-DW05-0918

Battelle ID J8462-FS  
 Sample Type SA  
 Collection Date 09/26/2018  
 Extraction Date 10/05/2018  
 Analysis Date 10/18/2018  
 Analytical Instrument Sciex 5500 LC/MS/MS  
 % Moisture NA  
 Matrix GW  
 Sample Size 0.100  
 Size Unit-Basis L  
 Units ng/L MDL LOD LOQ

			MDL	LOD	LOQ
PFHxA	307-24-4	3122.96 P	11.88	31.25	312.50
PFHpA	375-85-9	933.14 P	10.00	31.25	312.50
PFOA	335-67-1	3132.28 P	11.25	31.25	312.50
PFNA	375-95-1	271.76 J	0.65	2.50	12.50
PFDA	335-76-2	3.25 J	0.40	1.25	12.50
PFUnA	2058-94-8	2.50 U	0.73	2.50	12.50
PFDoA	307-55-1	1.25 U	0.45	1.25	12.50
PFTeDA	72629-94-8	1.25 U	0.38	1.25	12.50
PFTeDA	376-06-7	2.50 U	0.63	2.50	12.50
NMeFOSAA	2355-31-9	5.00 U	1.40	5.00	12.50
NEtFOSAA	2991-50-6	2.50 U	1.23	2.50	12.50
PFBS	375-73-5	478.75 P	8.13	31.25	312.50
PFHxS	355-46-4	7405.38 P	17.19	62.50	781.25
PFOS	1763-23-1	17879.22 P	296.88	781.25	7812.50

MSH

Surrogate Recoveries (%)

13C5-PFHxA	109 P
13C4-PFHpA	109 P
13C8-PFOA	114 P
13C9-PFNA	99 P
13C6-PFDA	91
13C7-PFUnA	99
13C2-PFDoA	93
13C2-PFTeDA	96
d3-MeFOSAA	108 P
d5-EtFOSAA	109 P
13C3-PFBS	120 P
13C3-PFHxS	115 P
13C8-PFOS	78 P

11/2/2018





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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-PM367-DW01-0918			
Battelle ID		J8477-FS			
Sample Type		SA			
Collection Date		09/27/2018			
Extraction Date		10/05/2018			
Analysis Date		10/18/2018			
Analytical Instrument		Sciex 5500 LC/MS/MS			
% Moisture		NA			
Matrix		GW			
Sample Size		0.200			
Size Unit-Basis		L			
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	1259.71 D	11.88	31.25	312.50
PFHpA	375-85-9	437.39 D	2.00	6.25	62.50
PFOA	335-67-1	2685.86 D	11.25	31.25	312.50
PFNA	375-95-1	38.95	0.33	1.25	6.25
PFDA	335-76-2	3.53 J	0.20	0.63	6.25
PFUnA	2058-94-8	1.25 U	0.36	1.25	6.25
PFDoA	307-55-1	0.63 U	0.23	0.63	6.25
PFTeDA	72629-94-8	0.63 U	0.19	0.63	6.25
PFTeDA	376-06-7	1.25 U	0.31	1.25	6.25
NMeFOSAA	2355-31-9	23.43	0.70	2.50	6.25
NEtFOSAA	2991-50-6	1.25 U	0.61	1.25	6.25
PFBS	375-73-5	146.66 D	1.63	6.25	62.50
PFHxS	355-46-4	4148.96 D	6.88	25.00	312.50
PFOS	1763-23-1	5335.43 D	118.75	312.50	3125.00

#### Surrogate Recoveries (%)

13C5-PFHxA	105 D
13C4-PFHpA	99 D
13C8-PFOA	102 D
13C9-PFNA	92 D
13C6-PFDA	91
13C7-PFUnA	107
13C2-PFDoA	98
13C2-PFTeDA	71
d3-MeFOSAA	98 D
d5-EtFOSAA	94 D
13C3-PFBS	106 D
13C3-PFHxS	90 D
13C8-PFOS	88 D



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-PM367-DW02-0918				
Battelle ID	J8478-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.100				
Size Unit-Basis	L				
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	56132.94 <b>D</b>	395.83	1041.67	10416.66
PFHpA	375-85-9	1669.26 <b>D</b>	4.00	12.50	125.00
PFOA	335-67-1	54604.31 <b>D</b>	375.00	1041.67	10416.66
PFNA	375-95-1	29.14	0.65	2.50	12.50
PFDA	335-76-2	2.10 J	0.40	1.25	12.50
PFUnA	2058-94-8	2.50 U	0.73	2.50	12.50
PFDoA	307-55-1	1.25 U	0.45	1.25	12.50
PFTeDA	72629-94-8	1.25 U	0.38	1.25	12.50
PFTeDA	376-06-7	2.50 U	0.63	2.50	12.50
NMeFOSAA	2355-31-9	5.00 U	1.40	5.00	12.50
NEtFOSAA	2991-50-6	2.50 U	1.23	2.50	12.50
PFBS	375-73-5	952.71 <b>D</b>	3.25	12.50	125.00
PFHxS	355-46-4	71136.25 <b>D</b>	229.17	833.33	10416.66
PFOS	1763-23-1	19456.73 <b>D</b>	395.83	1041.67	10416.66

**Surrogate Recoveries (%)**

13C5-PFHxA	82 <b>D</b>
13C4-PFHpA	102 <b>D</b>
13C8-PFOA	84 <b>D</b>
13C9-PFNA	96 <b>D</b>
13C6-PFDA	88
13C7-PFUnA	103
13C2-PFDoA	88
13C2-PFTeDA	72
d3-MeFOSAA	141
d5-EtFOSAA	136
13C3-PFBS	114 <b>D</b>
13C3-PFHxS	78 <b>D</b>
13C8-PFOS	81 <b>D</b>

MW 2/28/18



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-PM367-DW03-0918				
Battelle ID		J8479-FS				
Sample Type		SA				
Collection Date		09/27/2018				
Extraction Date		10/05/2018				
Analysis Date		10/18/2018				
Analytical Instrument		Sciex 5500 LC/MS/MS				
% Moisture		NA				
Matrix		GW				
Sample Size		0.010				
Size Unit-Basis		L				
Units		ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	51587.92 D	237.50	625.00	6250.00	
PFHpA	375-85-9	9105.69 D	40.00	125.00	1250.00	
PFOA	335-67-1	100511.92 D	2250.00	6250.00	62500.00	
PFNA	375-95-1	250.33	6.50	25.00	125.00	
PFDA	335-76-2	18.57 J	4.00	12.50	125.00	
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00	
PFDoA	307-55-1	12.50 U	4.50	12.50	125.00	
PFTTrDA	72629-94-8	12.50 U	3.75	12.50	125.00	
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00	
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00	
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00	
PFBS	375-73-5	12512.42 D	32.50	125.00	1250.00	
PFHxS	355-46-4	97055.91 D	1375.00	5000.00	62500.00	
PFOS	1763-23-1	93380.88 D	2375.00	6250.00	62500.00	

#### Surrogate Recoveries (%)

13C5-PFHxA	107 D
13C4-PFHpA	102 D
13C8-PFOA	87 D
13C9-PFNA	100 D
13C6-PFDA	93
13C7-PFUnA	97
13C2-PFDoA	90
13C2-PFTeDA	89
d3-MeFOSAA	129
d5-EtFOSAA	132
13C3-PFBS	108 D
13C3-PFHxS	77 D
13C8-PFOS	77 D



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-PM367-DW03P-0918				
Battelle ID		J8480-FS				
Sample Type		SA				
Collection Date		09/27/2018				
Extraction Date		10/05/2018				
Analysis Date		10/18/2018				
Analytical Instrument		Sciex 5500 LC/MS/MS				
% Moisture		NA				
Matrix		GW				
Sample Size		0.010				
Size Unit-Basis		L				
Units		ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	50093.99 D	237.50	625.00	6250.00	
PFHpA	375-85-9	9254.99 D	40.00	125.00	1250.00	
PFOA	335-67-1	111765.42 D	2250.00	6250.00	62500.00	
PFNA	375-95-1	261.33	6.50	25.00	125.00	
PFDA	335-76-2	24.36 J	4.00	12.50	125.00	
PFUnA	2058-94-8	25.00 U	7.25	25.00	125.00	
PFDoA	307-55-1	12.50 U	4.50	12.50	125.00	
PFTeDA	72629-94-8	12.50 U	3.75	12.50	125.00	
PFTeDA	376-06-7	25.00 U	6.25	25.00	125.00	
NMeFOSAA	2355-31-9	50.00 U	14.00	50.00	125.00	
NEtFOSAA	2991-50-6	25.00 U	12.25	25.00	125.00	
PFBS	375-73-5	12098.11 D	32.50	125.00	1250.00	
PFHxS	355-46-4	82521.75 D	137.50	500.00	6250.00	
PFOS	1763-23-1	111298.60 D	2375.00	6250.00	62500.00	

#### Surrogate Recoveries (%)

13C5-PFHxA	115 D
13C4-PFHpA	103 D
13C8-PFOA	88 D
13C9-PFNA	105 D
13C6-PFDA	92
13C7-PFUnA	92
13C2-PFDoA	91
13C2-PFTeDA	86
d3-MeFOSAA	139
d5-EtFOSAA	146
13C3-PFBS	109 D
13C3-PFHxS	112 D
13C8-PFOS	81 D



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-PM367-DW04-0918				
Battelle ID	J8481-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.050				
Size Unit-Basis	L				
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	5671.87 $\uparrow$	23.75	62.50	625.00
PFHpA	375-85-9	1096.03 $\uparrow$	4.00	12.50	125.00
PFOA	335-67-1	8296.77 $\uparrow$	225.00	625.00	6250.00
PFNA	375-95-1	38.17	1.30	5.00	25.00
PFDA	335-76-2	2.83 J	0.80	2.50	25.00
PFUnA	2058-94-8	5.00 U	1.45	5.00	25.00
PFDoA	307-55-1	2.50 U	0.90	2.50	25.00
PFTeDA	72629-94-8	2.50 U	0.75	2.50	25.00
PFTeDA	376-06-7	5.00 U	1.25	5.00	25.00
NMeFOSAA	2355-31-9	10.00 U	2.80	10.00	25.00
NEtFOSAA	2991-50-6	5.00 U	2.45	5.00	25.00
PFBS	375-73-5	823.18 $\uparrow$	3.25	12.50	125.00
PFHxS	355-46-4	7772.76 $\uparrow$	13.75	50.00	625.00
PFOS	1763-23-1	6580.29 $\uparrow$	23.75	62.50	625.00

#### Surrogate Recoveries (%)

13C5-PFHxA	101 $\uparrow$
13C4-PFHpA	102 $\uparrow$
13C8-PFOA	83 $\uparrow$
13C9-PFNA	94 $\uparrow$
13C6-PFDA	94
13C7-PFUnA	87
13C2-PFDoA	91
13C2-PFTeDA	90
d3-MeFOSAA	127
d5-EtFOSAA	115
13C3-PFBS	131 $\uparrow$
13C3-PFHxS	115 $\uparrow$
13C8-PFOS	101 $\uparrow$



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID	VC-AQ-FB08-09272018				
Battelle ID	J8482-FS				
Sample Type	SA				
Collection Date	09/27/2018				
Extraction Date	10/05/2018				
Analysis Date	10/18/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	AQ				
Sample Size	0.270				
Size Unit-Basis	L				
Units	ng/L	MDL	LOD	LOQ	
PFHxA	307-24-4	0.46 U	0.18	0.46	4.63
PFHpA	375-85-9	0.46 U	0.15	0.46	4.63
PFOA	335-67-1	1.10 <i>ru</i>	0.17	0.46	4.63
PFNA	375-95-1	0.93 U	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDoA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	0.46 U	0.12	0.46	4.63
PFHxS	355-46-4	0.16 J	0.10	0.37	4.63
PFOS	1763-23-1	0.47 <i>ru</i>	0.18	0.46	4.63

#### Surrogate Recoveries (%)

13C5-PFHxA	96
13C4-PFHpA	88
13C8-PFOA	103
13C9-PFNA	81
13C6-PFDA	88
13C7-PFUnA	98
13C2-PFDoA	90
13C2-PFTeDA	86
d3-MeFOSAA	100
d5-EtFOSAA	104
13C3-PFBS	97
13C3-PFHxS	108
13C8-PFOS	100



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Project Client: CH2M  
 Project Name: CTO-4164 Naval Base Ventura County, California  
 Project No.: 100110125-01

Client ID		VC-AQ-EB08-09272018			
Battelle ID		J8483-FS			
Sample Type		SA			
Collection Date		09/27/2018			
Extraction Date		10/05/2018			
Analysis Date		10/18/2018			
Analytical Instrument		Sciex 5500 LC/MS/MS			
% Moisture		NA			
Matrix		AQ			
Sample Size		0.290			
Size Unit-Basis		L			
Units		ng/L	MDL	LOD	LOQ
PFHxA	307-24-4	0.43 U	0.16	0.43	4.31
PFHpA	375-85-9	0.19 J	0.14	0.43	4.31
PFOA	335-67-1	1.36 U	0.16	0.43	4.31
PFNA	375-95-1	0.86 U	0.22	0.86	4.31
PFDA	335-76-2	0.43 U	0.14	0.43	4.31
PFUnA	2058-94-8	0.86 U	0.25	0.86	4.31
PFDoA	307-55-1	0.43 U	0.16	0.43	4.31
PFTeDA	72629-94-8	0.43 U	0.13	0.43	4.31
PFTeDA	376-06-7	0.86 U	0.22	0.86	4.31
NMeFOSAA	2355-31-9	1.72 U	0.48	1.72	4.31
NEtFOSAA	2991-50-6	0.86 U	0.42	0.86	4.31
PFBS	375-73-5	0.30 J	0.11	0.43	4.31
PFHxS	355-46-4	1.98 J	0.09	0.34	4.31
PFOS	1763-23-1	11.18	0.16	0.43	4.31

*MBL*

<b>Surrogate Recoveries (%)</b>	
13C5-PFHxA	80
13C4-PFHpA	80
13C8-PFOA	91
13C9-PFNA	77
13C6-PFDA	84
13C7-PFUnA	92
13C2-PFDoA	80
13C2-PFTeDA	71
d3-MeFOSAA	104
d5-EtFOSAA	88
13C3-PFBS	100
13C3-PFHxS	81
13C8-PFOS	85

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
VC-MS09-SO01	SITE 00009	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222486.1	1869599.4	Perfluoroalkyl Compounds	VC-MS09-DW01-0918	WG	Ground water	26-Sep-18
VC-MS09-SO02	SITE 00009	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6223040.5	1869590.5	Perfluoroalkyl Compounds	VC-MS09-DW02-0918	WG	Ground water	26-Sep-18
VC-MS09-SO03	SITE 00009	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222972.6	1869497.7	Perfluoroalkyl Compounds	VC-MS09-DW03-0918	WG	Ground water	26-Sep-18
VC-MS09-SO04	SITE 00009	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6223047.8	1869412	Perfluoroalkyl Compounds	VC-MS09-DW04-0918	WG	Ground water	26-Sep-18
VC-MS09-SO04	SITE 00009	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6223047.8	1869412	Perfluoroalkyl Compounds	VC-MS09-DW04P-0918	WG	Ground water	26-Sep-18
VC-MS09-SO05	SITE 00009	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222488.3	1869422.3	Perfluoroalkyl Compounds	VC-MS09-DW05-0918	WG	Ground water	26-Sep-18
		POINT_MUGU_NA S			18-0588			Perfluoroalkyl Compounds	VC-AQ-EB08-09272018	WQ	Water for QC samples	27-Sep-18
		POINT_MUGU_NA S			18-0588			Perfluoroalkyl Compounds	VC-AQ-FB08-09272018	WQ	Water for QC samples	27-Sep-18
		POINT_MUGU_NA S			18-0588			Perfluoroalkyl Compounds	VC-SO-EB07-09262018	WQ	Water for QC samples	26-Sep-18
		POINT_MUGU_NA S			18-0588			Perfluoroalkyl Compounds	VC-SO-FB07-09262018	WQ	Water for QC samples	26-Sep-18
VC-PM367-SO01	BASEWIDE PFAS	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222670.8	1867173.7	Perfluoroalkyl Compounds	VC-PM367-DW01-0918	WG	Ground water	27-Sep-18
VC-PM367-SO02	BASEWIDE PFAS	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222686.8	1867135.3	Perfluoroalkyl Compounds	VC-PM367-DW02-0918	WG	Ground water	27-Sep-18
VC-PM367-SO03	BASEWIDE PFAS	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222657.3	1867105.8	Perfluoroalkyl Compounds	VC-PM367-DW03-0918	WG	Ground water	27-Sep-18
VC-PM367-SO03	BASEWIDE PFAS	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222657.3	1867105.8	Perfluoroalkyl Compounds	VC-PM367-DW03P-0918	WG	Ground water	27-Sep-18
VC-PM367-SO04	BASEWIDE PFAS	POINT_MUGU_NA S	DP	Direct Push/Geoprobe	18-0588	6222613.7	1867153.8	Perfluoroalkyl Compounds	VC-PM367-DW04-0918	WG	Ground water	27-Sep-18