Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**J. ORIENT**	**DATE:**	**DECEMBER 20, 2010**
FROM:	**A. COGNETTI**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – PFOS, PFOA**
NAS BRUNSWICK CTO WE49
SAMPLE DELIVERY GROUP (SDG) – GOK010468

SAMPLES: 2/Aqueous/PFOS/PFOA

NASB-AOPI-RB01-102910 NASB-FTA-MW08

Overview

The sample set for NAS BRUNSWICK, CTO WE49, SDG GOK010468 consisted of one (1) aqueous environmental sample and a rinsate blank. All samples were analyzed for perfluorooctanoic acid (PFOA) and perfluorooctanoesulfonate (PFOS).

The samples were collected by Tetra Tech NUS on October 29, 2010 and were analyzed by Test America, West Sacramento. All samples were analyzed in accordance with SAC WS-LC-0020 analytical method. A tier II validation was performed on the data in this SDG.

Data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Blank Results
* • Initial and Continuing Calibration
* • Surrogate Spike Recoveries
• Matrix Spike / Matrix Spike Duplicate Results
• Laboratory Control Sample Recoveries
* • Detection Limits
* • Compound Identification and Quantification

The asterisk (*) indicates that all quality control criteria were met for this parameter. Qualified (if applicable) analytical results are summarized in Appendix A. Results as reported by the laboratory are presented in Appendix B. Appendix C contains the documentation to support the findings as discussed in this data validation report. The text of this report has been formulated to address only those problem areas affecting data quality.

MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD)

The percent recoveries (%Rs) for PFOA and PFOS were outside quality control limits in the matrix spike/matrix spike duplicate (MS/MSD) of NASB-FTA-MW08. The relative percent difference (RPD) for PFOA and PFOS were outside quality control limits for PFOA and PFOS. The nondetected PFOA and PFOS results in sample NASB-FTA-MW08 were qualified as estimated (UJ).

LABORATORY CONTROL SAMPLE RECOVERIES

The %Rs of PFOA and PFOS were less than the lower quality control limit in laboratory control sample/laboratory control sample duplicate (LCS/LCSD) prep batch 0309404 analyzed on November 7, 2010. The positive and nondetected PFOA and PFOS results in the affected samples NASB-AOPI-RB01-102910 and NASB-FTA-MW08 were qualified as (J) and (UJ), respectively.

NOTES

It was observed that the rinsate blank, NASB-AOPI-RB01-102910, had a positive PFOA detection. This positive detection was greater than 5X the limit of quantitation. The environmental sample in this SDG had a nondetected PFOA result.

EXECUTIVE SUMMARY

Laboratory Performance: LCS/LCSD % recoveries were outside quality control limits resulting in the qualification of data.

Other Factors Affecting Data Quality: MS/MSD % recoveries were outside the quality control limit resulting in data qualification of data.

The data for these analyses were reviewed with reference to the SOP criteria for Method SAC WS-LC-0020 and the (DOD) QSM document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).

Tetra Tech NUS
Ann Cognetti
Chemist/ Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED LABORATORY RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02330	NSAMPLE	NASB-AOPI-RB01-102910			NASB-FTA-MW08		
SDG: G0K010468	LAB_ID	G0K010468002			G0K010468001		
FRACTION: MISC	SAMP_DATE	10/29/2010			10/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
PENTADECAFLUOROOCTANOIC ACID		22	J	E	2	UJ	DE
PERFLUOROOCTANE SULFONIC ACID		2	UJ	E	2	UJ	DE

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Tetra Tech NUS, Inc

Client Sample ID: NASB-AOP1-RB01-102910

HPLC

Lot-Sample #...:	G0K010468-002	Work Order #...:	L9D751AA	Matrix.....:	WATER
Date Sampled...:	10/29/10	Date Received..:	10/30/10		
Prep Date.....:	11/05/10	Analysis Date..:	11/17/10		
Prep Batch #...:	0309404				
Dilution Factor:	1	Method.....:	SAC WS-LC-0020		

PARAMETER	RESULT	LOQ	UNITS	DL
PFOS	2.0 U	4.0	ng/L	1.5
PFOA	22	4.0	ng/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	54	(50 - 200)
13C4 PFOS	62	(50 - 200)

Tetra Tech NUS, Inc

Client Sample ID: NASB-FTA-MW08

HPLC

Lot-Sample #...:	G0K010468-001	Work Order #...:	L9D741AA	Matrix.....:	WATER
Date Sampled...:	10/29/10	Date Received..:	10/30/10		
Prep Date.....:	11/05/10	Analysis Date..:	11/17/10		
Prep Batch #...:	0309404				
Dilution Factor:	1	Method.....:	SAC WS-LC-0020		

PARAMETER	RESULT	LOQ	UNITS	DL
PFOS	2.0 U	4.0	ng/L	1.5
PFOA	2.0 U	4.0	ng/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	56	(50 - 200)
13C4 PFOS	64	(50 - 200)

Tetra Tech NUS, Inc

Client Sample ID: NASB-AOP1-RB01-102910

HPLC

Lot-Sample #...:	G0K010468-002	Work Order #...:	L9D752AA	Matrix.....:	WATER
Date Sampled...:	10/29/10	Date Received..:	10/30/10		
Prep Date.....:	11/18/10	Analysis Date..:	11/21/10		
Prep Batch #...:	0322246				
Dilution Factor:	1.04	Method.....:	SAC WS-LC-0020		

PARAMETER	RESULT	LOQ	UNITS	DL
PFOS	2.1 U	4.2	ng/L	1.6
PFOA	22	4.2	ng/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	80	(50 - 200)
13C4 PFOS	66	(50 - 200)

Tetra Tech NUS, Inc

Client Sample ID: NASB-FTA-MW08

HPLC

Lot-Sample #...:	G0K010468-001	Work Order #...:	L9D742AA	Matrix.....:	WATER
Date Sampled...:	10/29/10	Date Received..:	10/30/10		
Prep Date.....:	11/18/10	Analysis Date..:	11/21/10		
Prep Batch #...:	0322246				
Dilution Factor:	1.06	Method.....:	SAC WS-LC-0020		

PARAMETER	RESULT	LOQ	UNITS	DL
PFOS	2.1 U	4.2	ng/L	1.6
PFOA	2.1 J	4.2	ng/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	105	(50 - 200)
13C4 PFOS	99	(50 - 200)

NOTE(S):

J Estimated result. Result is less than RL.

APPENDIX C

SUPPORT DOCUMENTATION

Case Narrative

TestAmerica West Sacramento Project Number G0K010468

General Comments
Contract Task Order –N62470-08-D-1001, CTO NO. WE49
Site Name – NAS Brunswick, Maine
Tetra Tech Project Manager – Jeff Orient

"U" definition: Analyte was not detected and is reported as less than the LOD.

WATER, PFOA/PFOS
Sample(s): 1, 2
As discussed, these samples were re-extracted outside of the recommended 7 day extraction holding time due to low recoveries in the laboratory control sample. Both sets of results have been reported. The original results may be biased low.

Sample(s): 1, 2 (batch 0309404)
The matrix spikes, which were performed on sample 1, have low matrix spike duplicate recoveries and high RPDs. These samples were re-extracted as discussed above.

There were no other anomalies associated with this project.

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 1 OF 1

PROJECT NO: 112G0284	SITE NAME: NASB	PROJECT MANAGER AND PHONE NUMBER: Jorrent 412-921-7090	LABORATORY NAME AND CONTACT: Test America; Nilo Ligi
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: T. Rojahn " "	ADDRESS: 880 Riverside Pkwy
		CARRIER/WAYBILL NUMBER: 873559650 9685	CITY, STATE: West Sacramento, CA 95605

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2010	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PFOA/PFOS (8321A)	COMMENTS
						G			
10/01	1430	NASB-FTA-MW08	GW	G	1			1	
↓	1200	NASB-A001-FB01-102910	Aq	GRAB	1			1	

1. RELINQUISHED BY	DATE 10/29/10	TIME 1700	1. RECEIVED BY	DATE 10-30-10	TIME 1200
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Tetra Tech PM ED LOG # 67916

LOT# (QUANTIMS ID) G0K010468 QUOTE# 87448 LOCATION WSC

Checked (✓)

DATE RECEIVED 10-30-10 TIME RECEIVED 9:20 ☐

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☐

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☐

CUSTODY SEAL #(S) NA

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☐

COC #(S) NA ☐

TEMPERATURE BLANK Observed: NA Corrected: NA

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 5 6 Average 5 Corrected Average 5

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☑ #5 ☐ ☐ OTHER ☐

BJ 10-30-10

Initials Date

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pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY ☑

LABELS CHECKED BY ☑

PEER REVIEW ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☐

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Initials Date

Notes

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

HOLDTIME

SDG G0K010468

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
ACID	NG/L	NASB-FTA-MW08	G0K010468001	NM	10/29/2010	11/18/2010	11/21/2010	20	3	23
ACID	NG/L	NASB-FTA-MW08	G0K010468001	NM	10/29/2010	11/05/2010	11/17/2010	7	12	19
ACID	NG/L	NASB-AOP1-RB01-10291	G0K010468002	NM	10/29/2010	11/18/2010	11/21/2010	20	3	23
ACID	NG/L	NASB-AOP1-RB01-10291	G0K010468002	NM	10/29/2010	11/05/2010	11/17/2010	7	12	19

QC DATA ASSOCIATION SUMMARY

G0K010468

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SAC WS-LC-0020		0309404	0309215
	WATER	SAC WS-LC-0020		0322246	0322137
002	WATER	SAC WS-LC-0020		0309404	0309215
	WATER	SAC WS-LC-0020		0322246	0322137

Sample Summary

TestAmerica West Sacramento Project Number G0K010468

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
L9D74	1	NASB-FTA-MW08	10/29/2010 02:30 PM	10/30/2010 09:20 AM
L9D75	2	NASB-AOP1-RB01-102910	10/29/2010 12:00 PM	10/30/2010 09:20 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**

TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\PFO.mdb 17 Nov 2010 22:34:49
Calibration: 18 Nov 2010 12:20:17

Compound name: Perfluorooctanoic acid
Response Factor: 1.0628
RRF SD: 0.0751679, Relative SD: 7.07265
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	Acq.Date	Acq.Time	Name	ID	Sample Text	Type	Vial	Inj.Vol	Sa Size	F.V.	D.F.	
1	17-Nov-10	09:58:57	16NO10A6C_086	BLK	E090824-BLK with IS	Analyte	1:2	10	1.00	1.0	0.0	
2	17-Nov-10	10:12:02	16NO10A6C_087	ICAL-01	CS01 10LCMS0011 PFO Std 0.2ng/mL	Standard	1:3	10	1.00	1.0	1.0	
3	17-Nov-10	10:25:09	16NO10A6C_088	ICAL-02	CS02 10LCMS0012 PFO Std 0.5ng/mL	Standard	1:4	10	1.00	1.0	1.0	
4	17-Nov-10	10:38:15	16NO10A6C_089	ICAL-03	CS03 10LCMS0013 PFO Std 1.0ng/mL	Standard	1:5	10	1.00	1.0	1.0	
5	17-Nov-10	10:51:21	16NO10A6C_090	ICAL-04	CS04 10LCMS0014 PFO Std 2.0ng/mL	Standard	1:6	10	1.00	1.0	1.0	
6	17-Nov-10	11:04:27	16NO10A6C_091	ICAL-05	CS05 10LCMS0015 PFO Std 5.0ng/mL	Standard	1:7	10	1.00	1.0	1.0	
7	17-Nov-10	11:17:33	16NO10A6C_092	ICAL-06	CS06 10LCMS0016 PFO Std 10ng/mL	Standard	1:8	10	1.00	1.0	1.0	
8	17-Nov-10	11:30:39	16NO10A6C_093	ICAL-07	CS07 10LCMS0017 PFO Std 20ng/mL	Standard	1:9	10	1.00	1.0	1.0	
9	17-Nov-10	11:43:45	16NO10A6C_094	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0	
10	17-Nov-10	11:56:52	16NO10A6C_095	ICV	10LCMS0342 PFO ICV Std 5.0ng/mL	QC	1:10	10	1.00	1.0	0.0	X NOT USED.
11	17-Nov-10	12:06:20	16NO10A6C_096	ICV 111710	10LCMSXXXX PFO ICV Std 5.0ng/mL	QC	1:16	10	1.00	1.0	0.0	- OK (10LCMS.
12	17-Nov-10	12:23:03	16NO10A6C_097	CCV-01	10LCMS0011 PFO Std 0.2ng/mL, MRL	QC	1:3	10	1.00	1.0	0.0	- OK
13	17-Nov-10	12:36:13	16NO10A6C_098	L9MQM1AAB	G0K010000-MB, 0309406, 250mL/5.0mL	Analyte	2:17	10	0.25	5.0	1.0	
14	17-Nov-10	12:49:23	16NO10A6C_099	L9MQM1ACC	G0K010000-LCS, 0309406, 250mL/5.0mL	QC	2:18	10	0.25	5.0	1.0	- failed Low.
15	17-Nov-10	13:02:28	16NO10A6C_100	L9JPG1AA	A0K040500-1, 0309406, 248.33mL/5.0mL	Analyte	2:19	10	0.25	5.0	1.0	
16	17-Nov-10	13:15:34	16NO10A6C_101	L9JPG1ADS	A0K040500-1MS, 0309406, 246.74mL/5.0mL	QC	2:20	10	0.25	5.0	1.0	> MS3
17	17-Nov-10	13:28:40	16NO10A6C_102	L9JPG1AED	A0K040500-1SD, 0309406, 247.80mL/5.0mL	QC	2:21	10	0.25	5.0	1.0	
18	17-Nov-10	13:41:46	16NO10A6C_103	L9JPJ1AA	A0K040500-2, 0309406, 247.51mL/5.0mL, 20X	Analyte	2:33	10	0.25	5.0	1.0	
19	17-Nov-10	13:54:52	16NO10A6C_104	L9JPK1AA	A0K040500-3, 0309406, 247.41mL/5.0mL, 2X	Analyte	2:34	10	0.25	5.0	1.0	
20	17-Nov-10	14:07:58	16NO10A6C_105	L9JPL1AA	A0K040500-4, 0309406, 249.07mL/5.0mL	Analyte	2:24	10	0.25	5.0	1.0	
21	17-Nov-10	14:21:05	16NO10A6C_106	CCV-04	10LCMS0014 PFO Std 2.0ng/mL	QC	1:6	10	1.00	1.0	0.0	- OK
22	17-Nov-10	14:34:10	16NO10A6C_107	L9W591AAB	G0K050000-MB, 0315333, 250mL/5.0mL	Analyte	2:25	10	0.25	5.0	1.0	
23	17-Nov-10	14:47:16	16NO10A6C_108	L9W591ACC	G0K050000-LCS, 0315333, 250mL/5.0mL	QC	2:26	10	0.25	5.0	1.0	- in control.
24	17-Nov-10	15:00:22	16NO10A6C_109	L9MNM1AA	A0K050602-1, 0315333, 239.69mL/5.0mL	Analyte	2:27	10	0.24	5.0	1.0	
25	17-Nov-10	15:13:28	16NO10A6C_110	L9MNM1AA	A0K050602-1, 0315333, 239.69mL/5.0mL, 10X	Analyte	2:36	10	0.24	5.0	1.0	
26	17-Nov-10	15:26:35	16NO10A6C_111	L9MNM1ADS	A0K050602-1MS, 0315333, 242.93mL/5.0mL	QC	2:28	10	0.24	5.0	1.0	> MS3
27	17-Nov-10	15:39:41	16NO10A6C_112	L9MNM1ADS	A0K050602-1MS, 0315333, 242.93mL/5.0mL, ...	QC	2:37	10	0.24	5.0	1.0	

Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Batch 6x4

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**

TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Compound name: Perfluorooctanoic acid

	Acq Date	Acq Time	Name	ID	Sample Text	Type	Vial	Inj Vol	Sa Size	F.V.	D.F.	
28	17-Nov-10	15:52:46	16NO10A6C_113	L9MNM1AED	A0K050602-1SD, 0315333, 243.34mL/5.0mL	QC	2:29	10	0.24	5.0	1.0	} MS3
29	17-Nov-10	16:05:53	16NO10A6C_114	L9MNM1AED	A0K050602-1SD, 0315333, 243.34mL/5.0mL, ...	QC	2:37	10	0.24	5.0	1.0	
30	17-Nov-10	16:18:59	16NO10A6C_115	L9MNN1AA	A0K050602-2, 0315333, 239.79mL/5.0mL	Analyte	2:30	10	0.24	5.0	1.0	
31	17-Nov-10	16:32:05	16NO10A6C_116	CCV-05	10LCMS0015 PFO Std 5.0ng/mL	QC	1:7	10	1.00	1.0	0.0	- OK
32	17-Nov-10	16:45:11	16NO10A6C_117	L9ECV1AAB	G0K010000-MB, 0305395, 250mL/5.0mL	Analyte	2:1	10	0.25	5.0	1.0	
33	17-Nov-10	16:58:18	16NO10A6C_118	L9ECV1ACC	G0K010000-LCS, 0305395, 250mL/5.0mL	QC	2:2	10	0.25	5.0	1.0	- in control
34	17-Nov-10	17:11:24	16NO10A6C_119	L87161AA	A0J280428-1, 0305395, 246.27mL/5.0mL	Analyte	2:3	10	0.25	5.0	1.0	
35	17-Nov-10	17:24:30	16NO10A6C_120	L87161ADS	A0J280428-1MS, 0305395, 247.56mL/5.0mL	QC	2:4	10	0.25	5.0	1.0	- Low
36	17-Nov-10	17:37:36	16NO10A6C_121	L87161AED	A0J280428-1SD, 0305395, 245.71mL/5.0mL	QC	2:5	10	0.25	5.0	1.0	- Low
37	17-Nov-10	17:50:42	16NO10A6C_122	L87191AA	A0J280428-2, 0305395, 245.18mL/5.0mL	Analyte	2:6	10	0.25	5.0	1.0	
38	17-Nov-10	18:03:49	16NO10A6C_123	L9DED1AA	A0K010403-1, 0305395, 246.63mL/5.0mL	Analyte	2:7	10	0.25	5.0	1.0	- Low IS
39	17-Nov-10	18:16:55	16NO10A6C_124	L9DED1AA	A0K010403-1, 0305395, 246.63mL/5.0mL, 50X	Analyte	2:31	10	0.25	5.0	1.0	- Low IS (PFO
40	17-Nov-10	18:30:01	16NO10A6C_125	L9DEE1AA	A0K010403-2, 0305395, 245.13mL/5.0mL	Analyte	2:8	10	0.25	5.0	1.0	
41	17-Nov-10	18:43:08	16NO10A6C_126	L9DEE1AA	A0K010403-2, 0305395, 245.13mL/5.0mL, 50X	Analyte	2:32	10	0.25	5.0	1.0	
42	17-Nov-10	18:56:13	16NO10A6C_127	CCV-05	10LCMS0015 PFO Std 5.0ng/mL	QC	1:7	10	1.00	1.0	0.0	- OK
43	17-Nov-10	19:09:20	16NO10A6C_128	L9DEG1AA	A0K010403-3, 0305395, 244.55mL/5.0mL	Analyte	2:9	10	0.24	5.0	1.0	
44	17-Nov-10	19:22:26	16NO10A6C_129	L9DEH1AA	A0K010403-4, 0305395, 243.88mL/5.0mL	Analyte	2:10	10	0.24	5.0	1.0	
45	17-Nov-10	19:35:32	16NO10A6C_130	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0	
46	17-Nov-10	19:48:38	16NO10A6C_131	L9MQF1AAB	G0K010000-MB, 0309404, 250mL/5.0mL	Analyte	2:11	10	0.25	5.0	1.0	
47	17-Nov-10	20:01:44	16NO10A6C_132	L9MQF1ACC	G0K010000-LCS, 0309404, 250mL/5.0mL	QC	2:12	10	0.25	5.0	1.0	- Low
48	17-Nov-10	20:14:49	16NO10A6C_133	L9D741AA	G0K010468-1, 0309404, 248.13mL/5.0mL	Analyte	2:13	10	0.25	5.0	1.0	
49	17-Nov-10	20:27:56	16NO10A6C_134	L9D741ACS	G0K010468-1MS, 0309404, 248.21mL/5.0mL	QC	2:14	10	0.25	5.0	1.0	- OK
50	17-Nov-10	20:41:03	16NO10A6C_135	L9D741ADD	G0K010468-1SD, 0309404, 249.53mL/5.0mL	QC	2:15	10	0.25	5.0	1.0	- Low
51	17-Nov-10	20:54:09	16NO10A6C_136	L9D751AA	G0K010468-2, 0309404, 249.31mL/5.0mL	Analyte	2:16	10	0.25	5.0	1.0	
52	17-Nov-10	21:07:14	16NO10A6C_137	CCV-06	10LCMS0016 PFO Std 10ng/mL	QC	1:8	10	1.00	1.0	0.0	- OK
53	17-Nov-10	21:20:20	16NO10A6C_138	Water blank	Water blank without IS	Analyte	1:11	10	1.00	1.0	0.0	
54	17-Nov-10	21:33:26	16NO10A6C_139	Water blank	Water blank without IS	Analyte	1:12	10	1.00	1.0	0.0	- NOT USED
55	17-Nov-10	21:46:33	16NO10A6C_140	end run	Water blank	Analyte	1:13	10	1.00	1.0	0.0	
56	17-Nov-10	22:43:14	16NO10A6C_141	Std L-5	PFOA/PPOS Std ~5.0ng/mL	Analyte	1:1	10	1.00	1.0	0.0	
57	17-Nov-10	22:56:21	16NO10A6C_142	Std L-5	PFOA/PPOS Std ~5.0ng/mL	Analyte	1:1	10	1.00	1.0	0.0	
58	17-Nov-10	23:09:28	16NO10A6C_143	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0	
59	17-Nov-10	23:22:34	16NO10A6C_144	CCV-07	10LCMS0017 PFO Std 20ng/mL	QC	1:9	10	1.00	1.0	0.0	- OK
60	17-Nov-10	23:35:40	16NO10A6C_145	CCV-05	CS05 10LCMS0015 PFO Std 5.0ng/mL	QC	1:7	10	1.00	1.0	0.0	- OK
61	17-Nov-10	23:48:46	16NO10A6C_146	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0	
62	18-Nov-10	00:01:52	16NO10A6C_147	ICV	10LCMS0491 PFO ICV Std 5.0ng/mL	QC	1:16	10	1.00	1.0	0.0	- OK

Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Back for Rx

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**

TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Compound name: Perfluorooctanoic acid

	Acq Date	Acq Time	Name	ID	Sample Text	Type	Vial	Inj Vol	Sa Size	F.V.	D.F.	
63	18-Nov-10	00:14:58	16NO10A6C_148	CCV-01	10LCMS0011 PFO Std 0.2ng/mL, MRL	QC	1:3	10	1.00	1.0	0.0	- ok
64	18-Nov-10	00:28:05	16NO10A6C_149	L87161AA	A0J280428-1, 0305395, 246.27mL/5.0mL, RI	Analyte	2:3	10	0.25	5.0	1.0	
65	18-Nov-10	00:41:11	16NO10A6C_150	L87161ADS	A0J280428-1MS, 0305395, 247.56mL/5.0mL, RI	QC	2:4	10	0.25	5.0	1.0	
66	18-Nov-10	00:54:17	16NO10A6C_151	L87161AED	A0J280428-1SD, 0305395, 245.71mL/5.0mL, RI	QC	2:5	10	0.25	5.0	1.0	
67	18-Nov-10	01:07:24	16NO10A6C_152	CCV-06	10LCMS0016 PFO Std 10ng/mL	QC	1:8	10	1.00	1.0	0.0	- ok

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**

TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Compound name: Perfluorooctanesulfonate
Response Factor: 0.729499
RRF SD: 0.0376703, Relative SD: 5.16386
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

	Acq Date	Acq Time	Name	ID	Sample Text	Type	Vial	Inj Vol	Sa Size	F.V.	D.F.
1	17-Nov-10	09:58:57	16NO10A6C_086	BLK	E090824-BLK with IS	Analyte	1:2	10	1.00	1.0	0.0
2	17-Nov-10	10:12:02	16NO10A6C_087	ICAL-01	CS01 10LCMS0011 PFO Std 0.2ng/mL	Standard	1:3	10	1.00	1.0	1.0
3	17-Nov-10	10:25:09	16NO10A6C_088	ICAL-02	CS02 10LCMS0012 PFO Std 0.5ng/mL	Standard	1:4	10	1.00	1.0	1.0
4	17-Nov-10	10:38:15	16NO10A6C_089	ICAL-03	CS03 10LCMS0013 PFO Std 1.0ng/mL	Standard	1:5	10	1.00	1.0	1.0
5	17-Nov-10	10:51:21	16NO10A6C_090	ICAL-04	CS04 10LCMS0014 PFO Std 2.0ng/mL	Standard	1:6	10	1.00	1.0	1.0
6	17-Nov-10	11:04:27	16NO10A6C_091	ICAL-05	CS05 10LCMS0015 PFO Std 5.0ng/mL	Standard	1:7	10	1.00	1.0	1.0
7	17-Nov-10	11:17:33	16NO10A6C_092	ICAL-06	CS06 10LCMS0016 PFO Std 10ng/mL	Standard	1:8	10	1.00	1.0	1.0
8	17-Nov-10	11:30:39	16NO10A6C_093	ICAL-07	CS07 10LCMS0017 PFO Std 20ng/mL	Standard	1:9	10	1.00	1.0	1.0
9	17-Nov-10	11:43:45	16NO10A6C_094	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0
10	17-Nov-10	11:56:52	16NO10A6C_095	ICV	10LCMS0342 PFO ICV Std 5.0ng/mL	QC	1:10	10	1.00	1.0	0.0
11	17-Nov-10	12:06:20	16NO10A6C_096	ICV 111710	10LCMSXXXX PFO ICV Std 5.0ng/mL	QC	1:16	10	1.00	1.0	0.0
12	17-Nov-10	12:23:03	16NO10A6C_097	CCV-01	10LCMS0011 PFO Std 0.2ng/mL, MRL	QC	1:3	10	1.00	1.0	0.0
13	17-Nov-10	12:36:13	16NO10A6C_098	L9MQM1AAB	G0K010000-MB, 0309406, 250mL/5.0mL	Analyte	2:17	10	0.25	5.0	1.0
14	17-Nov-10	12:49:23	16NO10A6C_099	L9MQM1ACC	G0K010000-LCS, 0309406, 250mL/5.0mL	QC	2:18	10	0.25	5.0	1.0
15	17-Nov-10	13:02:28	16NO10A6C_100	L9JPG1AA	A0K040500-1, 0309406, 248.33mL/5.0mL	Analyte	2:19	10	0.25	5.0	1.0
16	17-Nov-10	13:15:34	16NO10A6C_101	L9JPG1ADS	A0K040500-1MS, 0309406, 246.74mL/5.0mL	QC	2:20	10	0.25	5.0	1.0
17	17-Nov-10	13:28:40	16NO10A6C_102	L9JPG1AED	A0K040500-1SD, 0309406, 247.80mL/5.0mL	QC	2:21	10	0.25	5.0	1.0
18	17-Nov-10	13:41:46	16NO10A6C_103	L9JPJ1AA	A0K040500-2, 0309406, 247.51mL/5.0mL, 20X	Analyte	2:33	10	0.25	5.0	1.0
19	17-Nov-10	13:54:52	16NO10A6C_104	L9JPK1AA	A0K040500-3, 0309406, 247.41mL/5.0mL, 2X	Analyte	2:34	10	0.25	5.0	1.0
20	17-Nov-10	14:07:58	16NO10A6C_105	L9JPL1AA	A0K040500-4, 0309406, 249.07mL/5.0mL	Analyte	2:24	10	0.25	5.0	1.0
21	17-Nov-10	14:21:05	16NO10A6C_106	CCV-04	10LCMS0014 PFO Std 2.0ng/mL	QC	1:6	10	1.00	1.0	0.0
22	17-Nov-10	14:34:10	16NO10A6C_107	L9W591AAB	G0K050000-MB, 0315333, 250mL/5.0mL	Analyte	2:25	10	0.25	5.0	1.0
23	17-Nov-10	14:47:16	16NO10A6C_108	L9W591ACC	G0K050000-LCS, 0315333, 250mL/5.0mL	QC	2:26	10	0.25	5.0	1.0
24	17-Nov-10	15:00:22	16NO10A6C_109	L9MNM1AA	A0K050602-1, 0315333, 239.69mL/5.0mL	Analyte	2:27	10	0.24	5.0	1.0
25	17-Nov-10	15:13:28	16NO10A6C_110	L9MNM1AA	A0K050602-1, 0315333, 239.69mL/5.0mL, 10X	Analyte	2:36	10	0.24	5.0	1.0
26	17-Nov-10	15:26:35	16NO10A6C_111	L9MNM1ADS	A0K050602-1MS, 0315333, 242.93mL/5.0mL	QC	2:28	10	0.24	5.0	1.0
27	17-Nov-10	15:39:41	16NO10A6C_112	L9MNM1ADS	A0K050602-1MS, 0315333, 242.93mL/5.0mL, ...	QC	2:37	10	0.24	5.0	1.0
28	17-Nov-10	15:52:46	16NO10A6C_113	L9MNM1AED	A0K050602-1SD, 0315333, 243.34mL/5.0mL	QC	2:29	10	0.24	5.0	1.0
29	17-Nov-10	16:05:53	16NO10A6C_114	L9MNM1AED	A0K050602-1SD, 0315333, 243.34mL/5.0mL, ...	QC	2:37	10	0.24	5.0	1.0
30	17-Nov-10	16:18:59	16NO10A6C_115	L9MNN1AA	A0K050602-2, 0315333, 239.79mL/5.0mL	Analyte	2:30	10	0.24	5.0	1.0
31	17-Nov-10	16:32:05	16NO10A6C_116	CCV-05	10LCMS0015 PFO Std 5.0ng/mL	QC	1:7	10	1.00	1.0	0.0

Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**

TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Compound name: Perfluorooctanesulfonate

	Acq Date	Acq Time	Name	ID	Sample Text	Type	Vial	Inj Vol	Sa Size	F-V	D F
32	17-Nov-10	16:45:11	16NO10A6C_117	L9ECV1AAB	G0K010000-MB, 0305395, 250mL/5.0mL	Analyte	2:1	10	0.25	5.0	1.0
33	17-Nov-10	16:58:18	16NO10A6C_118	L9ECV1ACC	G0K010000-LCS, 0305395, 250mL/5.0mL	QC	2:2	10	0.25	5.0	1.0
34	17-Nov-10	17:11:24	16NO10A6C_119	L87161AA	A0J280428-1, 0305395, 248.27mL/5.0mL	Analyte	2:3	10	0.25	5.0	1.0
35	17-Nov-10	17:24:30	16NO10A6C_120	L87161ADS	A0J280428-1MS, 0305395, 247.56mL/5.0mL	QC	2:4	10	0.25	5.0	1.0
36	17-Nov-10	17:37:36	16NO10A6C_121	L87161AED	A0J280428-1SD, 0305395, 245.71mL/5.0mL	QC	2:5	10	0.25	5.0	1.0
37	17-Nov-10	17:50:42	16NO10A6C_122	L87191AA	A0J280428-2, 0305395, 245.18mL/5.0mL	Analyte	2:6	10	0.25	5.0	1.0
38	17-Nov-10	18:03:49	16NO10A6C_123	L9DED1AA	A0K010403-1, 0305395, 246.63mL/5.0mL	Analyte	2:7	10	0.25	5.0	1.0
39	17-Nov-10	18:16:55	16NO10A6C_124	L9DED1AA	A0K010403-1, 0305395, 246.63mL/5.0mL, 50X	Analyte	2:31	10	0.25	5.0	1.0
40	17-Nov-10	18:30:01	16NO10A6C_125	L9DEE1AA	A0K010403-2, 0305395, 245.13mL/5.0mL	Analyte	2:8	10	0.25	5.0	1.0
41	17-Nov-10	18:43:08	16NO10A6C_126	L9DEE1AA	A0K010403-2, 0305395, 245.13mL/5.0mL, 50X	Analyte	2:32	10	0.25	5.0	1.0
42	17-Nov-10	18:56:13	16NO10A6C_127	CCV-05	10LCMS0015 PFO Std 5.0ng/mL	QC	1:7	10	1.00	1.0	0.0
43	17-Nov-10	19:09:20	16NO10A6C_128	L9DEG1AA	A0K010403-3, 0305395, 244.55mL/5.0mL	Analyte	2:9	10	0.24	5.0	1.0
44	17-Nov-10	19:22:26	16NO10A6C_129	L9DEH1AA	A0K010403-4, 0305395, 243.88mL/5.0mL	Analyte	2:10	10	0.24	5.0	1.0
45	17-Nov-10	19:35:32	16NO10A6C_130	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0
46	17-Nov-10	19:48:38	16NO10A6C_131	L9MQF1AAB	G0K010000-MB, 0309404, 250mL/5.0mL	Analyte	2:11	10	0.25	5.0	1.0
47	17-Nov-10	20:01:44	16NO10A6C_132	L9MQF1ACC	G0K010000-LCS, 0309404, 250mL/5.0mL	QC	2:12	10	0.25	5.0	1.0
48	17-Nov-10	20:14:49	16NO10A6C_133	L9D741AA	G0K010468-1, 0309404, 248.13mL/5.0mL	Analyte	2:13	10	0.25	5.0	1.0
49	17-Nov-10	20:27:56	16NO10A6C_134	L9D741ACS	G0K010468-1MS, 0309404, 248.21mL/5.0mL	QC	2:14	10	0.25	5.0	1.0
50	17-Nov-10	20:41:03	16NO10A6C_135	L9D741ADD	G0K010468-1SD, 0309404, 249.53mL/5.0mL	QC	2:15	10	0.25	5.0	1.0
51	17-Nov-10	20:54:09	16NO10A6C_136	L9D751AA	G0K010468-2, 0309404, 249.31mL/5.0mL	Analyte	2:16	10	0.25	5.0	1.0
52	17-Nov-10	21:07:14	16NO10A6C_137	CCV-06	10LCMS0016 PFO Std 10ng/mL	QC	1:8	10	1.00	1.0	0.0
53	17-Nov-10	21:20:20	16NO10A6C_138	Water blank	Water blank without IS	Analyte	1:11	10	1.00	1.0	0.0
54	17-Nov-10	21:33:26	16NO10A6C_139	Water blank	Water blank without IS	Analyte	1:12	10	1.00	1.0	0.0
55	17-Nov-10	21:46:33	16NO10A6C_140	end run	Water blank	Analyte	1:13	10	1.00	1.0	0.0
56	17-Nov-10	22:43:14	16NO10A6C_141	Std L-5	PFOA/PPOS Std ~5.0ng/mL	Analyte	1:1	10	1.00	1.0	0.0
57	17-Nov-10	22:56:21	16NO10A6C_142	Std L-5	PFOA/PPOS Std ~5.0ng/mL	Analyte	1:1	10	1.00	1.0	0.0
58	17-Nov-10	23:09:28	16NO10A6C_143	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0
59	17-Nov-10	23:22:34	16NO10A6C_144	CCV-07	10LCMS0017 PFO Std 20ng/mL	QC	1:9	10	1.00	1.0	0.0
60	17-Nov-10	23:35:40	16NO10A6C_145	CCV-05	CS05 10LCMS0015 PFO Std 5.0ng/mL	QC	1:7	10	1.00	1.0	0.0
61	17-Nov-10	23:48:46	16NO10A6C_146	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0
62	18-Nov-10	00:01:52	16NO10A6C_147	ICV	10LCMS0491 PFO ICV Std 5.0ng/mL	QC	1:16	10	1.00	1.0	0.0
63	18-Nov-10	00:14:58	16NO10A6C_148	CCV-01	10LCMS0011 PFO Std 0.2ng/mL, MRL	QC	1:3	10	1.00	1.0	0.0
64	18-Nov-10	00:28:05	16NO10A6C_149	L87161AA	A0J280428-1, 0305395, 246.27mL/5.0mL, RI	Analyte	2:3	10	0.25	5.0	1.0
65	18-Nov-10	00:41:11	16NO10A6C_150	L87161ADS	A0J280428-1MS, 0305395, 247.56mL/5.0mL, RI	QC	2:4	10	0.25	5.0	1.0
66	18-Nov-10	00:54:17	16NO10A6C_151	L87161AED	A0J280428-1SD, 0305395, 245.71mL/5.0mL, RI	QC	2:5	10	0.25	5.0	1.0

Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**

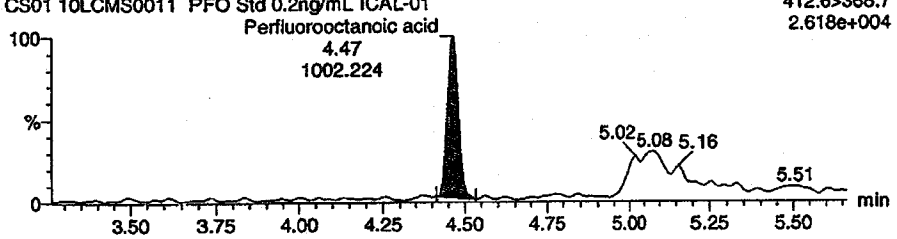
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Compound name: Perfluorooctanesulfonate

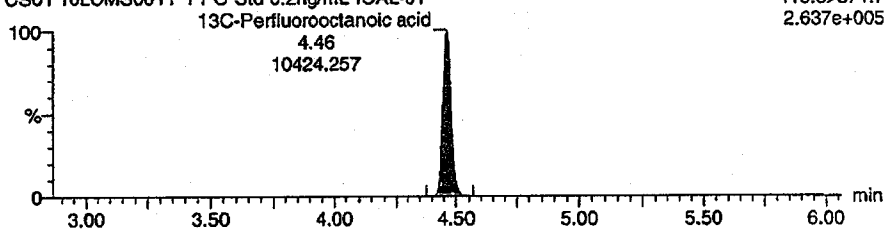
	Acq Date	Acq Time	Name	ID	Sample Text	Type	Vial #	Inj Vol	Sa Size	F/V	D F
67	18-Nov-10	01:07:24	16NO10A6C_152	CCV-06	10LCMS0016 PFO Std 10ng/mL	QC	1:8	10	1.00	1.0	0.0

Date: 17-Nov-2010
Time: 10:12:02
Name: 16NO10A6C_087
ID: ICAL-01
Description: CS01 10LCMS0011 PFO Std 0.2ng/mL
Vial: 1:3
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

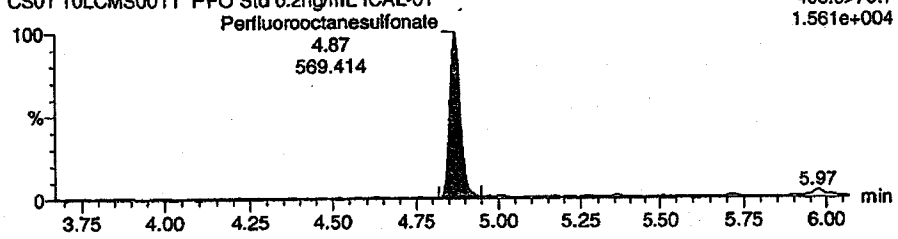
Perfluorooctanoic acid



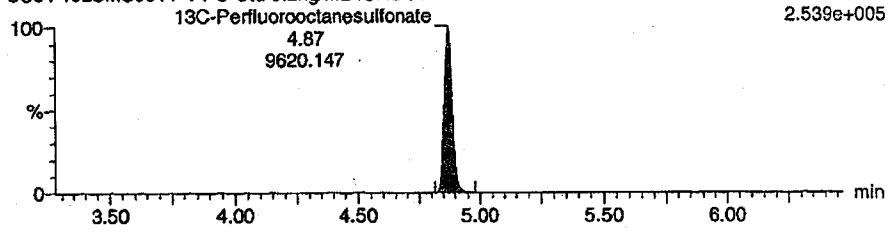
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



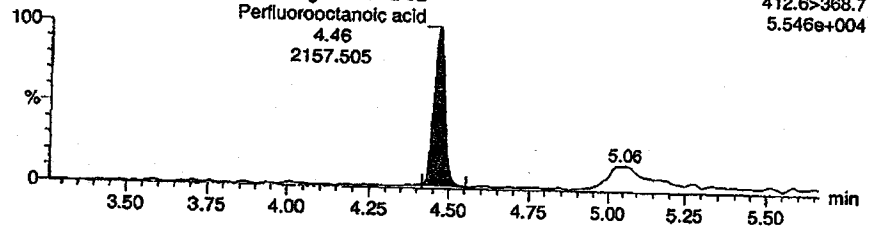
13C-Perfluorooctanesulfonate



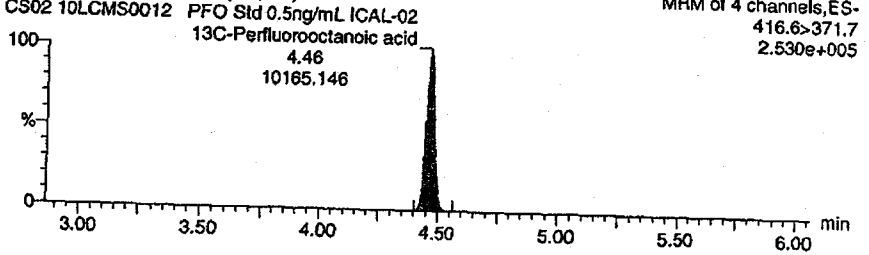
#	Name	Trace	Pred	RT	ΔRT	Sa	Size	RV	DF	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.467	0.00	1.00	1.0	1.0	1002.224	77.6	bb	2	10424.257	0.22616	13.1	113.1		
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.463	-0.00	1.00	1.0	1.0	10424.257	3656.4	bb			2.62022	4.8	104.8		
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.870	-0.00	1.00	1.0	1.0	569.414	339.0	bb	4	9620.147	0.20284	1.4	101.4		
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.870	-0.00	1.00	1.0	1.0	9620.147	5595.8	bb			2.66650	6.7	106.7		

Date: 17-Nov-2010
Time: 10:25:09
Name: 16NO10A6C_088
ID: ICAL-02
Description: CS02 10LCMS0012 PFO Std 0.5ng/mL
Vial: 1:4
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50°C
User: deg

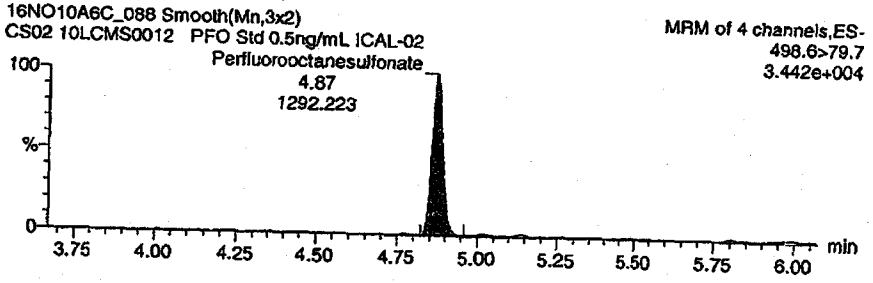
Perfluorooctanoic acid



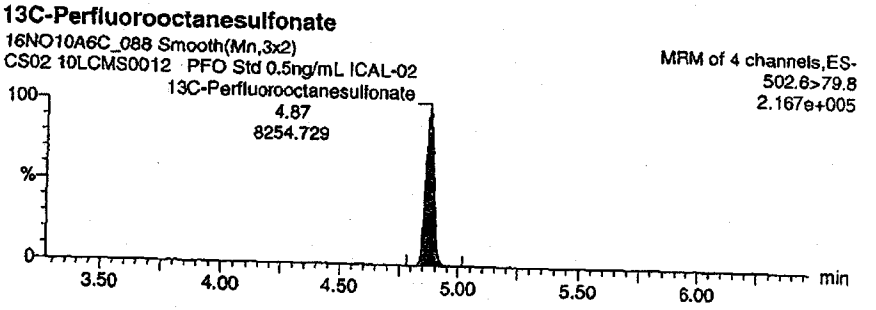
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



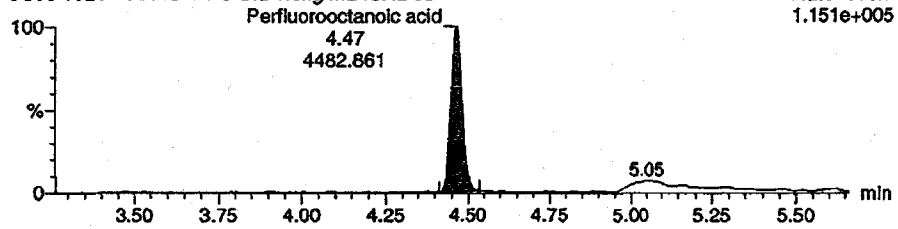
13C-Perfluorooctanesulfonate



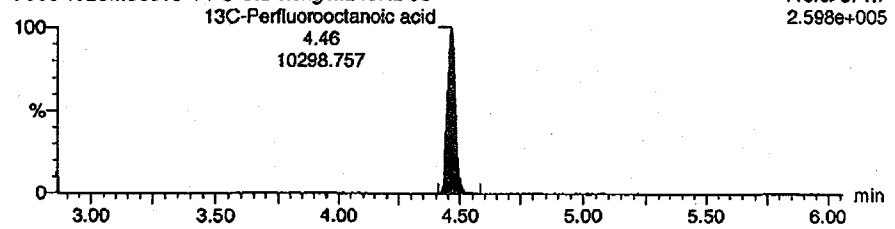
#	Name	Trace	Prod	RT	dRT	Sa	Size	DF	Vi	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.463	-0.00	1.00	1.0	1.0		2157.505	158.9	bb	2	10165.146	0.49926	-0.1	99.9	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.463	-0.00	1.00	1.0	1.0		10165.146	4546.0	bb			2.55509	2.2	102.2	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.870	-0.00	1.00	1.0	1.0		1292.223	890.8	bb	4	8254.729	0.53648	7.3	107.3	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.870	-0.00	1.00	1.0	1.0		8254.729	2927.7	bb			2.28803	-8.5	91.5	

Date: 17-Nov-2010
Time: 10:38:15
Name: 16NO10A6C_089
ID: ICAL-03
Description: CS03 10LCMS0013 PFO Std 1.0ng/mL
Vial: 1:5
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50°C
User: deg

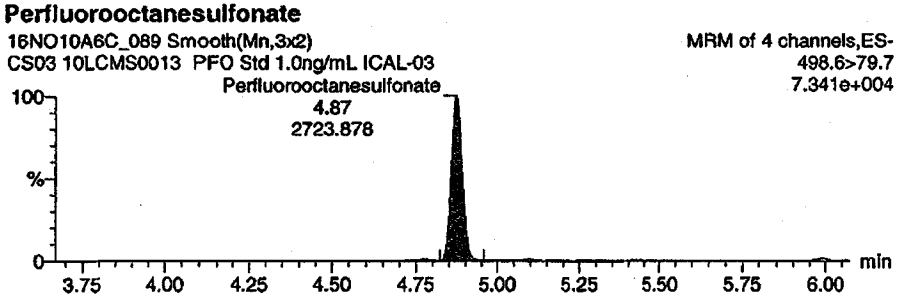
Perfluorooctanoic acid



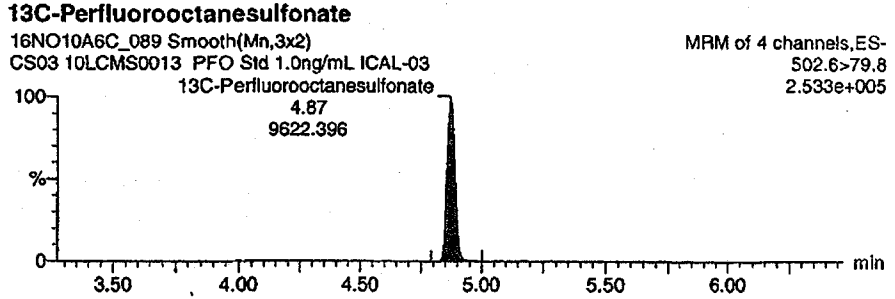
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

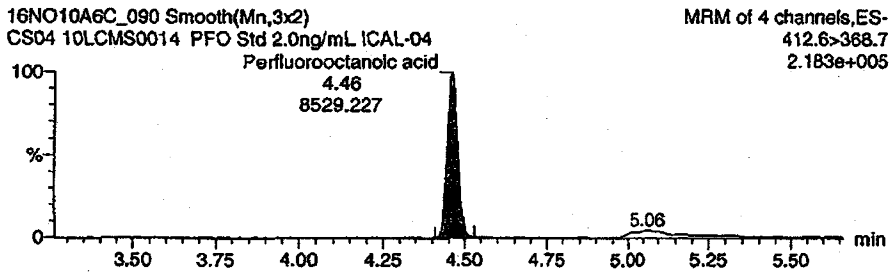


#	Name	Trace	Pred	RT	Δ RT	Sa Size	F/V	Dil F	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.467	0.00	1.00	1.0	1.0	4482.861	253.7	bb	2	10298.757	1.02391	2.4	102.4	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.463	-0.00	1.00	1.0	1.0	10298.757	2975.3	bb			2.58867	3.5	103.5	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.874	0.00	1.00	1.0	1.0	2723.878	1553.2	bb	4	9622.396	0.97011	-3.0	97.0	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.870	-0.00	1.00	1.0	1.0	9622.396	4826.8	bb			2.66712	6.7	106.7	

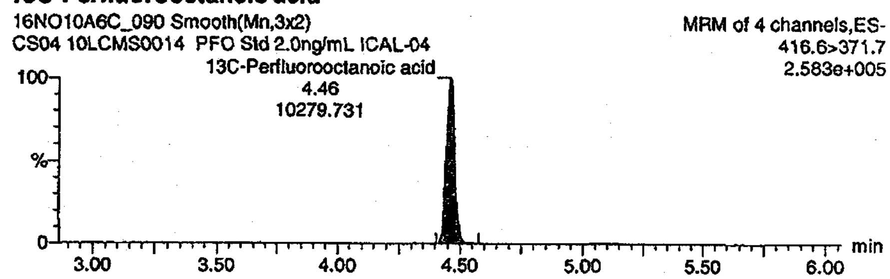
Quantify Sample Report **MassLynx 4.1 SCN 683**
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Date: 17-Nov-2010
Time: 10:51:21
Name: 16NO10A6C_090
ID: ICAL-04
Description: CS04 10LCMS0014 PFO Std 2.0ng/mL
Vial: 1:6
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

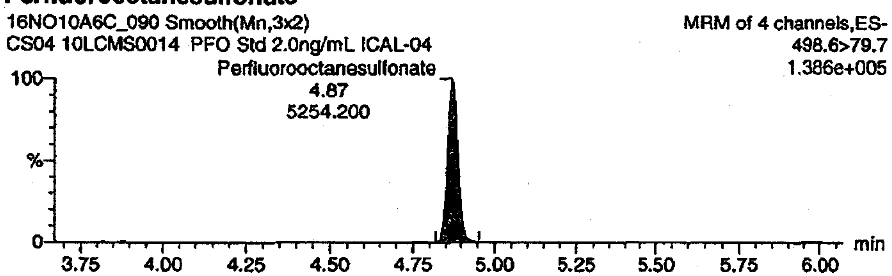
Perfluorooctanoic acid



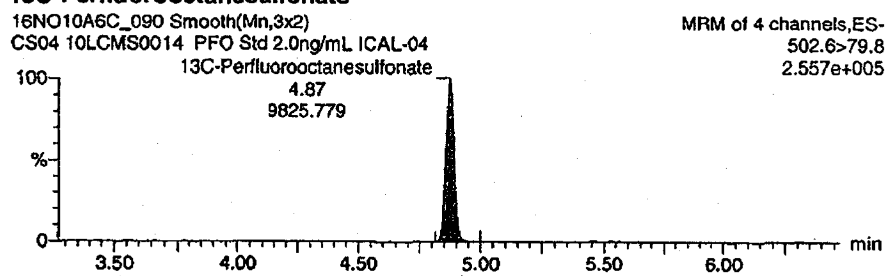
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

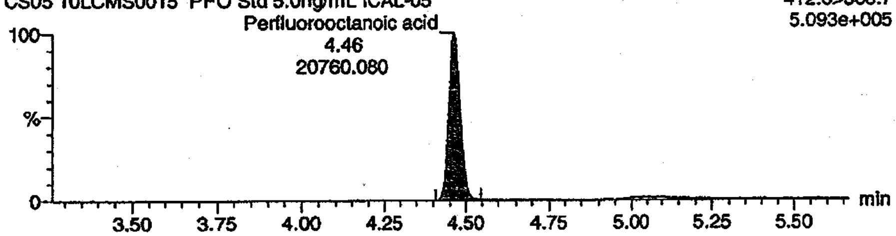


#	Name	Trace	Pred	RT	ΔRT	Sa.Size	FtV	Dil	Area	S/N	Flags	IS#	IS Area	Conc.	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.463	-0.00	1.00	1.0	1.0	8529.227	499.3	bb	2	10279.731	1.95172	-2.4	97.6	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.463	-0.00	1.00	1.0	1.0	10279.731	2837.3	bb			2.58389	3.4	103.4	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.870	-0.00	1.00	1.0	1.0	5254.200	2647.0	bb	4	9825.779	1.83255	-8.4	91.6	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.870	-0.00	1.00	1.0	1.0	9825.779	4444.4	bb			2.72349	8.9	108.9	

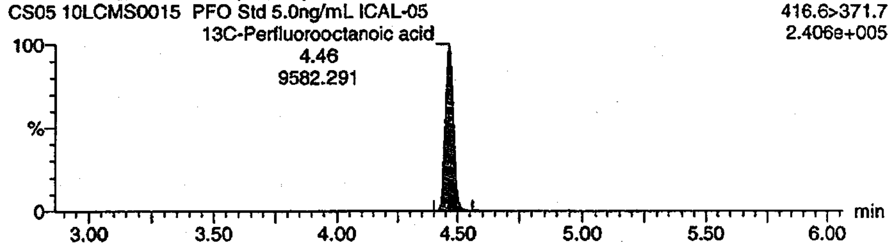
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Date: 17-Nov-2010
Time: 11:04:27
Name: 16NO10A6C_091
ID: ICAL-05
Description: CS05 10LCMS0015 PFO Std 5.0ng/mL
Vial: 1:7
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

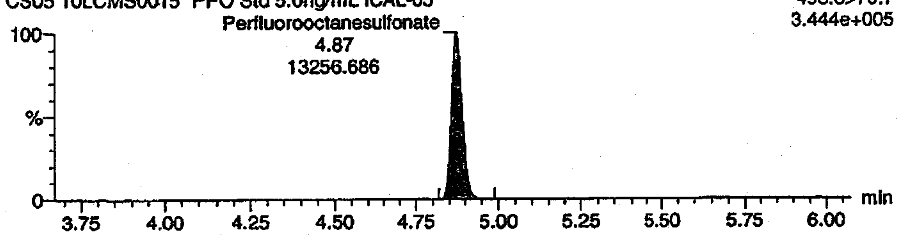
Perfluorooctanoic acid
16NO10A6C_091 Smooth(Mn,3x2)
CS05 10LCMS0015 PFO Std 5.0ng/mL ICAL-05
MRM of 4 channels,ES-
412.6>368.7
5.093e+005



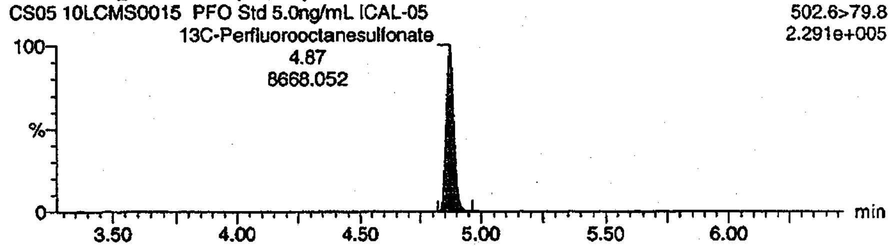
13C-Perfluorooctanoic acid
16NO10A6C_091 Smooth(Mn,3x2)
CS05 10LCMS0015 PFO Std 5.0ng/mL ICAL-05
MRM of 4 channels,ES-
416.6>371.7
2.406e+005



Perfluorooctanesulfonate
16NO10A6C_091 Smooth(Mn,3x2)
CS05 10LCMS0015 PFO Std 5.0ng/mL ICAL-05
MRM of 4 channels,ES-
498.6>79.7
3.444e+005



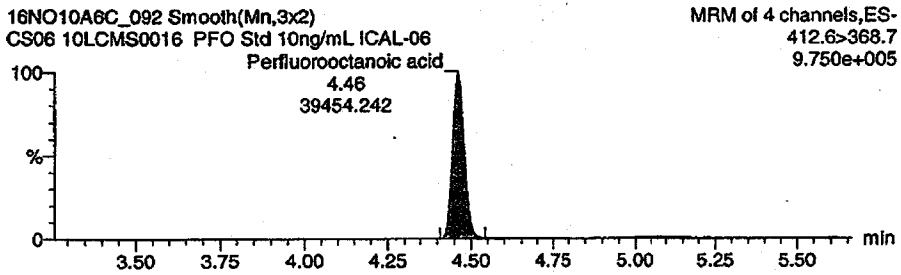
13C-Perfluorooctanesulfonate
16NO10A6C_091 Smooth(Mn,3x2)
CS05 10LCMS0015 PFO Std 5.0ng/mL ICAL-05
MRM of 4 channels,ES-
502.6>79.8
2.291e+005



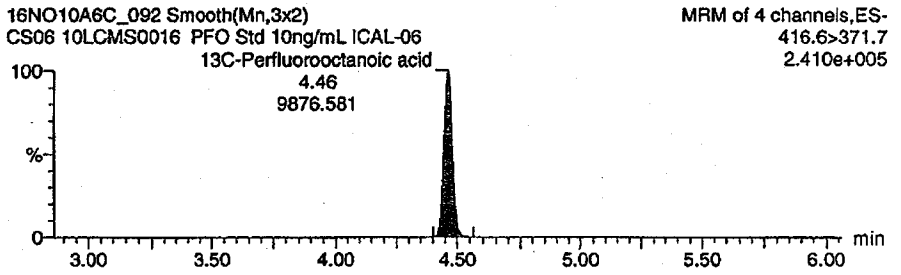
#	Name	Trace	Pred.RT	RT	ΔRT	Sa.Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc.	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.463	-0.00	1.00	1.0	1.0	20760.080	821.7	bb	2	9582.291	5.09624	1.9	101.9	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.463	-0.00	1.00	1.0	1.0	9582.291	2810.1	bb			2.40858	-3.7	96.3	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.874	0.00	1.00	1.0	1.0	13256.686	6854.4	dd	4	8668.052	5.24118	4.8	104.8	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.874	0.00	1.00	1.0	1.0	8668.052	5080.0	bb			2.40260	-3.9	96.1	

Date: 17-Nov-2010
Time: 11:17:33
Name: 16NO10A6C_092
ID: ICAL-06
Description: CS06 10LCMS0016 PFO Std 10ng/mL
Vial: 1:8
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

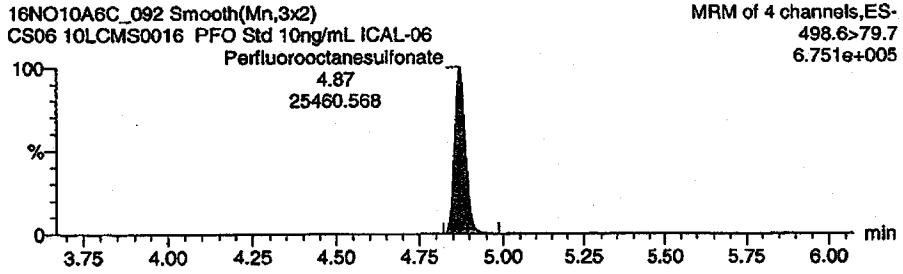
Perfluorooctanoic acid



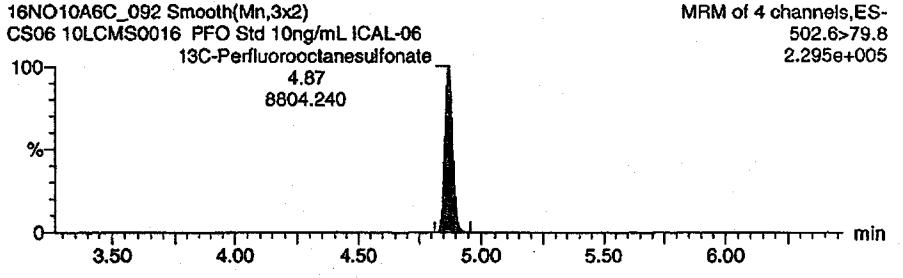
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

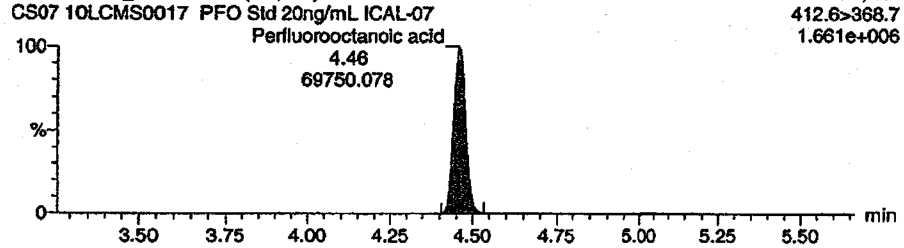


#	Name	Trace	Pred	RT	Δ RT	Sa Size	F.V.	D.F.	C	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.463	-0.00	1.00	1.0	1.0		39454.242	2909.4	bb	2	9876.581	9.39673	-6.0	94.0	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.463	-0.00	1.00	1.0	1.0		9876.581	3597.5	bb			2.48256	-0.7	99.3	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.872	0.00	1.00	1.0	1.0		25460.568	11662.7	bb	4	8804.240	9.91041	-0.9	99.1	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.872	0.00	1.00	1.0	1.0		8804.240	2344.9	bb			2.44035	-2.4	97.6	

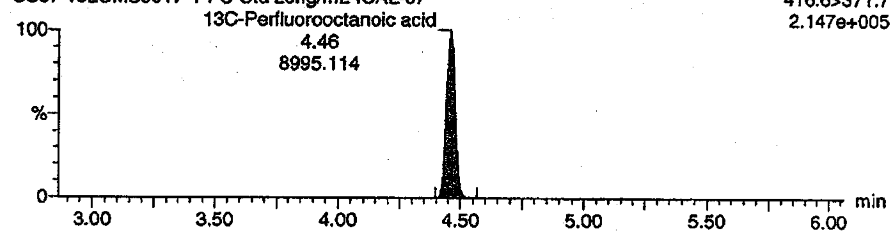
Quantify Sample Report **MassLynx 4.1 SCN 683**
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

Date: 17-Nov-2010
Time: 11:30:39
Name: 16NO10A6C_093
ID: ICAL-07
Description: CS07 10LCMS0017 PFO Std 20ng/mL
Vial: 1:9
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

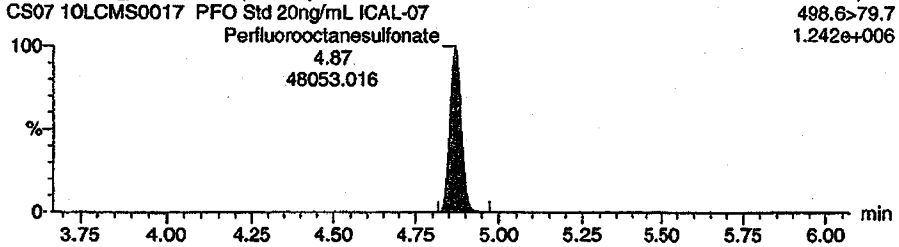
Perfluorooctanoic acid
16NO10A6C_093 Smooth(Mn,3x2) MRM of 4 channels,ES-
CS07 10LCMS0017 PFO Std 20ng/mL ICAL-07 412.6>368.7
1.661e+006



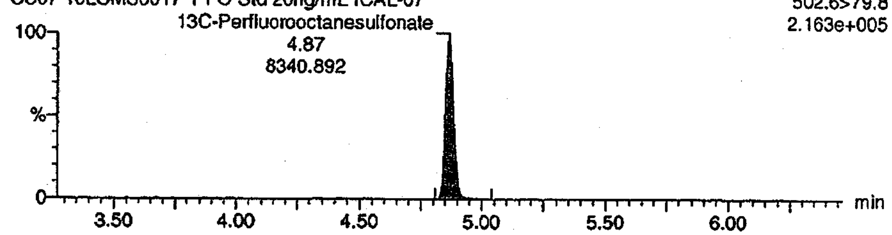
13C-Perfluorooctanoic acid
16NO10A6C_093 Smooth(Mn,3x2) MRM of 4 channels,ES-
CS07 10LCMS0017 PFO Std 20ng/mL ICAL-07 416.6>371.7
2.147e+005



Perfluorooctanesulfonate
16NO10A6C_093 Smooth(Mn,3x2) MRM of 4 channels,ES-
CS07 10LCMS0017 PFO Std 20ng/mL ICAL-07 498.6>79.7
1.242e+006



13C-Perfluorooctanesulfonate
16NO10A6C_093 Smooth(Mn,3x2) MRM of 4 channels,ES-
CS07 10LCMS0017 PFO Std 20ng/mL ICAL-07 502.6>79.8
2.163e+005



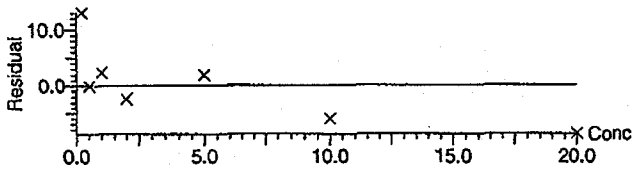
#	Name	Trace	Pred. RT	RT	A RT	Sa Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc.	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.459	-0.00	1.00	1.0	1.0	69750.078	5233.4	bb	2	8995.114	18.24013	-8.8	91.2	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.459	-0.00	1.00	1.0	1.0	8995.114	2873.6	bb			2.26099	-9.6	90.4	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.870	-0.00	1.00	1.0	1.0	48053.016	20435.9	bb	4	8340.892	19.74347	-1.3	98.7	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.866	-0.01	1.00	1.0	1.0	8340.892	3550.8	bb			2.31192	-7.5	92.5	

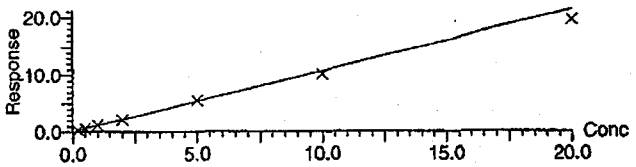
Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11162010BA6C_PFO.qld
Last Altered: Thursday, November 18, 2010 14:12:37 Pacific Standard Time
Printed: Thursday, November 18, 2010 14:14:47 Pacific Standard Time

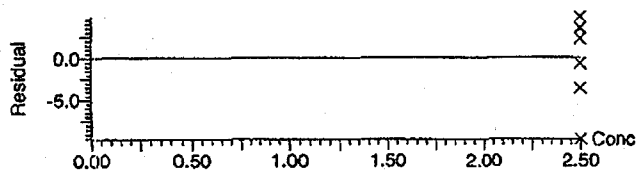
Method: C:\MassLynx\JAN2010.PRO\MethDB\PFO.mdb 17 Nov 2010 22:34:49
Calibration: 18 Nov 2010 12:20:17

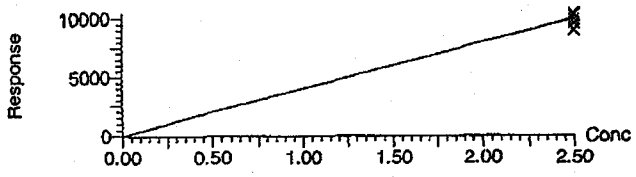
Compound name: Perfluorooctanoic acid
Response Factor: 1.0628
RRF SD: 0.0751679, % Relative SD: 7.07265 ✓
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



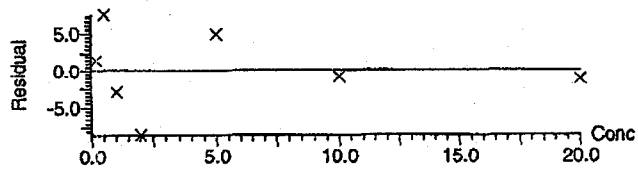


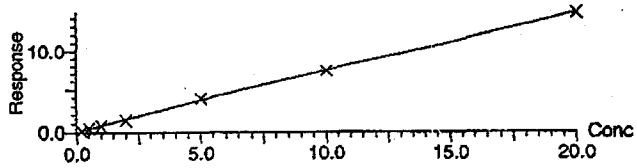
Compound name: 13C-Perfluorooctanoic acid
Response Factor: 3978.39
RRF SD: 203.559, % Relative SD: 5.11661 ✓
Response type: External Std, Area
Curve type: RF



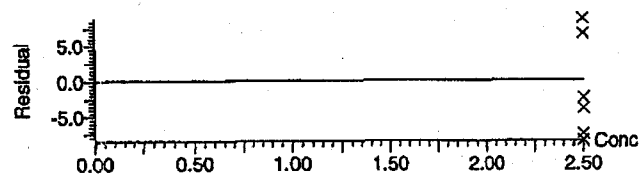


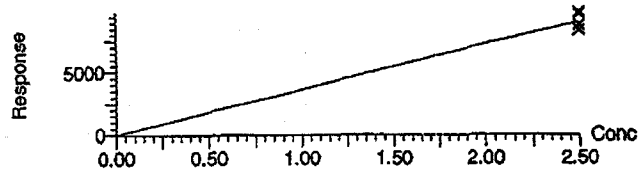
Compound name: Perfluorooctanesulfonate
Response Factor: 0.729499
RRF SD: 0.0376703, % Relative SD: 5.16386 ✓
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF





Compound name: 13C-Perfluorooctanesulfonate
Response Factor: 3607.78
RRF SD: 262.784, % Relative SD: 7.28381 ✓
Response type: External Std, Area
Curve type: RF

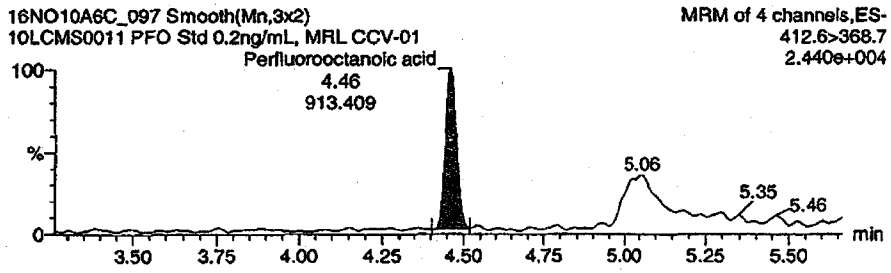




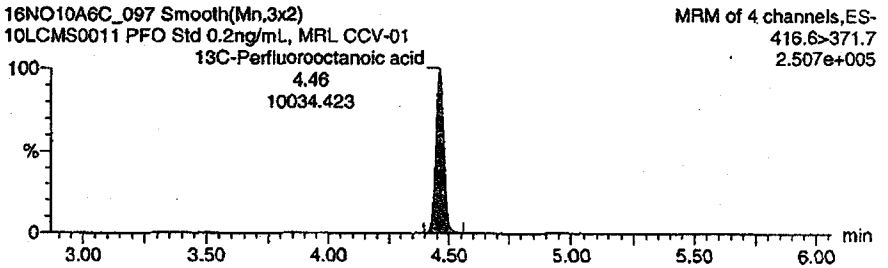
Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Date: 17-Nov-2010
Time: 12:23:03
Name: 16NO10A6C_097
ID: CCV-01
Description: 10LCMS0011 PFO Std 0.2ng/mL, MRL
Vial: 1:3
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50°C
User: deg

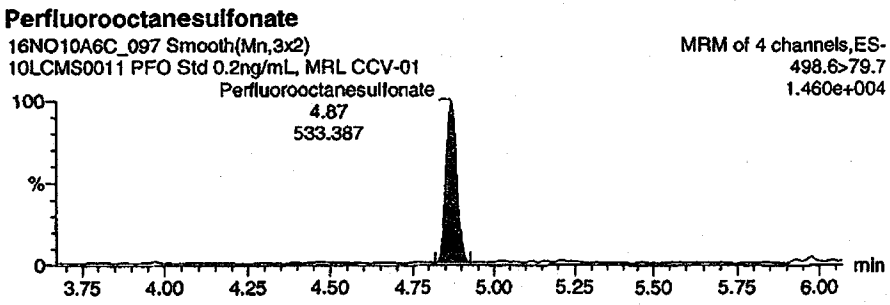
Perfluorooctanoic acid



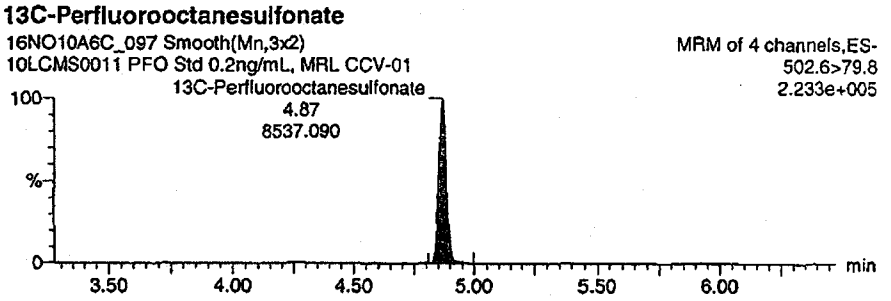
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

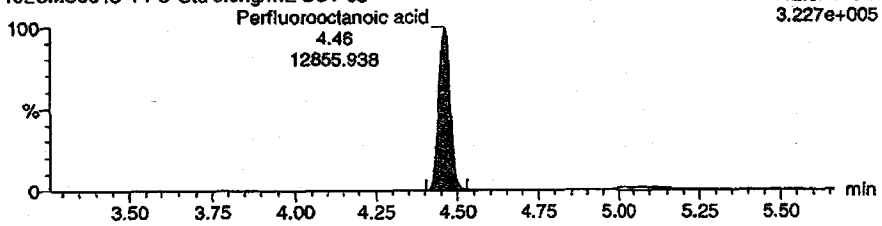


#	Name	Trace	Cal Pred	RT	Δ RT	Sa Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.463	-0.00	1.00	1.0	0.0	913.409	64.9	bb	2	10034.423	0.21412	7.1	107.1	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.459	-0.00	1.00	1.0	1.0	10034.423	2890.7	bb			2.52223	0.9	100.9	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.870	-0.00	1.00	1.0	0.0	533.387	97.4	bb	4	8537.090	0.21412	7.1	107.1	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.866	-0.01	1.00	1.0	1.0	8537.090	3112.0	bb			2.36630	-5.3	94.7	

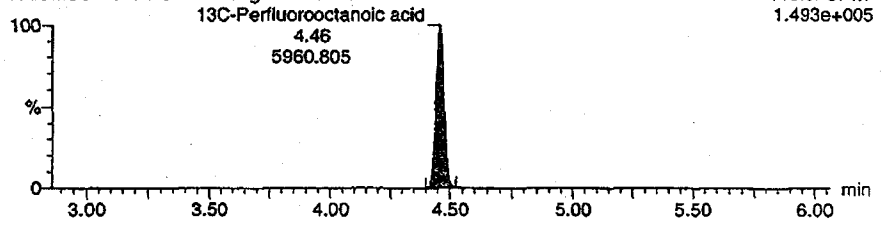
CCV @ RL in contn
DEG 11-18-10

Date: 17-Nov-2010
Time: 18:56:13
Name: 16NO10A6C_127
ID: CCV-05
Description: 10LCMS0015 PFO Std 5.0ng/mL
Vial: 1:7
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

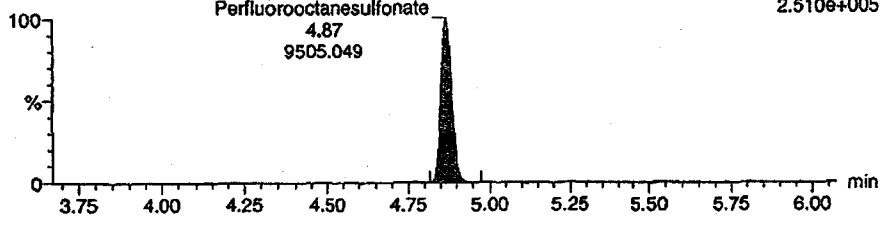
Perfluorooctanoic acid



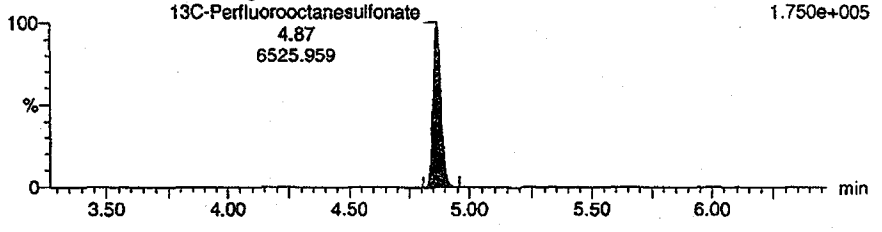
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

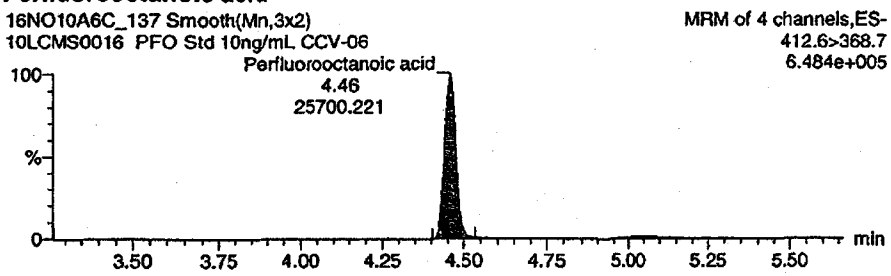


#	Name	Trace	Pred	RT	ΔRT	Sa Size	CCV	Dil	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.459	-0.00	1.00	1.0	0.0	12855.938	1035.9	bb	2	5960.805	5.07328	1.5	101.5	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.459	-0.00	1.00	1.0	1.0	5960.805	1578.1	bb			1.49829	-40.1	59.9	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.866	-0.01	1.00	1.0	0.0	9505.049	3926.8	dd	4	6525.959	4.99143	-0.2	99.8	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.866	-0.01	1.00	1.0	1.0	6525.959	1529.6	bb			1.80885	-27.6	72.4	

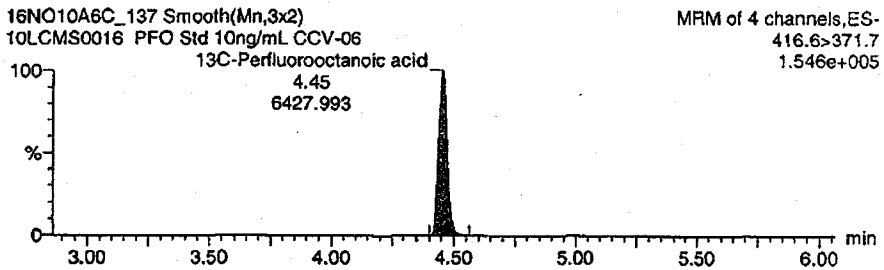
CCV in control DEG 11-18-2010

Date: 17-Nov-2010
Time: 21:07:14
Name: 16NO10A6C_137
ID: CCV-06
Description: 10LCMS0016 PFO Std 10ng/mL
Vial: 1:8
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50°C
User: deg

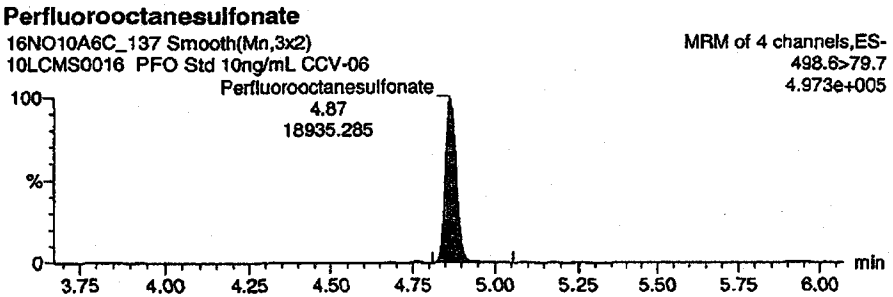
Perfluorooctanoic acid



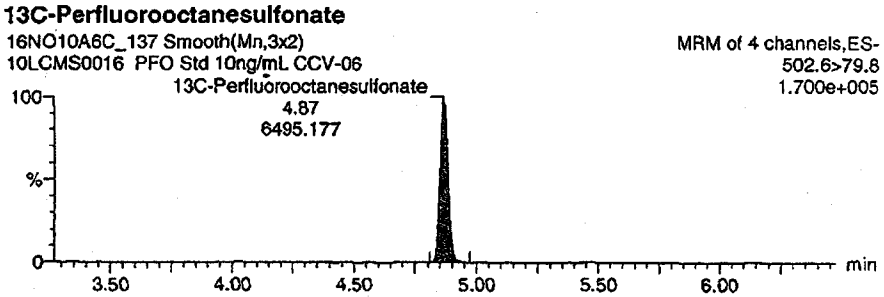
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate



#	Name	Trace	Pred	RT	A:RT	Sa Size	F.V.	C.D.F.	Area	S/N	Flags	IS #	IS Area	Conc	%Dev	%Rec	Mod Date
1	Perfluorooctanoic acid	412.6>368.7	4.463	4.458	-0.00	1.00	1.0	0.0	25700.221	1757.2	bb	2	6427.993	9.40484	-6.0	94.0	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.463	4.455	-0.01	1.00	1.0	1.0	6427.993	3010.8	bb			1.61573	-35.4	64.6	
3	Perfluorooctanesulfonate	498.6>79.7	4.872	4.866	-0.01	1.00	1.0	0.0	18935.285	8973.4	dd	4	6495.177	9.99071	-0.1	99.9	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.872	4.866	-0.01	1.00	1.0	1.0	6495.177	3046.1	bb			1.80032	-28.0	72.0	

CCV in control
DEL 11-18-2010

METHOD BLANK REPORT

HPLC

Client Lot #...: G0K010468 Work Order #...: L9MQF1AA Matrix.....: WATER
MB Lot-Sample #: G0K050000-404

Prep Date.....: 11/05/10
Analysis Date..: 11/17/10 Prep Batch #...: 0309404
Dilution Factor: 1

PARAMETER	RESULT	LOQ	UNITS	METHOD
PFOA	2.0 U	4.0	ng/L	SAC WS-LC-0020
PFOS	2.0 U	4.0	ng/L	SAC WS-LC-0020

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	56	(50 - 200)
13C4 PFOS	57	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: G0K010468 **Work Order #...:** L9MQF1AC **Matrix.....:** WATER
LCS Lot-Sample#: G0K050000-404
Prep Date.....: 11/05/10 **Analysis Date..:** 11/17/10
Prep Batch #...: 0309404
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
PFOA	**20.0**	**13.0 a**	**ng/L**	**65**	**SAC WS-LC-002**
PFOS	**20.0**	**13.2 a**	**ng/L**	**66**	**SAC WS-LC-002**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	52	(50 - 200)
13C4 PFOS	63	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: G0K010468 Work Order #...: L9MQF1AC Matrix.....: WATER
LCS Lot-Sample#: G0K050000-404
Prep Date.....: 11/05/10 Analysis Date..: 11/17/10
Prep Batch #...: 0309404
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
PFOA	**65 a**	**(70 - 130)**	**SAC WS-LC-0020**
PFOS	**66 a**	**(70 - 130)**	**SAC WS-LC-0020**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	52	(50 - 200)
13C4 PFOS	63	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...:	G0K010468	**Work Order #...:**	L9D741AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	G0K010468-001		L9D741AD-MSD		
Date Sampled...:	10/29/10	**Date Received..:**	10/30/10		
Prep Date.....:	11/05/10	**Analysis Date..:**	11/17/10		
Prep Batch #...:	0309404				
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
PFOA	**2.0 U**	**20.0**	**16.0**	**ng/L**	**75**		**SAC WS-LC-0020**
	2.0 U	**20.0**	**11.8**	**ng/L**	**54 a,p**	**30**	**SAC WS-LC-0020**
PFOS	**2.0 U**	**20.0**	**15.8**	**ng/L**	**74**		**SAC WS-LC-0020**
	2.0 U	**20.0**	**10.4**	**ng/L**	**47 a,p**	**42**	**SAC WS-LC-0020**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	55	(50 - 200)
	55	(50 - 200)
13C4 PFOS	68	(50 - 200)
	69	(50 - 200)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: G0K010468 Work Order #...: L9D741AC-MS Matrix.....: WATER
MS Lot-Sample #: G0K010468-001 L9D741AD-MSD
Date Sampled...: 10/29/10 Date Received..: 10/30/10
Prep Date.....: 11/05/10 Analysis Date..: 11/17/10
Prep Batch #...: 0309404
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
PFOA	**75**	**(70 - 130)**			**SAC WS-LC-0020**
	54 a,p	**(70 - 130)**	**30**	**(0-20)**	**SAC WS-LC-0020**
PFOS	**74**	**(70 - 130)**			**SAC WS-LC-0020**
	47 a,p	**(70 - 130)**	**42**	**(0-20)**	**SAC WS-LC-0020**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	55	(50 - 200)
	55	(50 - 200)
13C4 PFOS	68	(50 - 200)
	69	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11212010AA6C_PFO.qld
Last Altered: Monday, November 22, 2010 12:48:45 Pacific Standard Time
Printed: Monday, November 22, 2010 12:49:43 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\PFO.mdb 22 Nov 2010 12:34:39
Calibration: 22 Nov 2010 12:34:39

Compound name: Perfluorooctanoic acid
Response Factor: 1.07768
RRF SD: 0.0442582, Relative SD: 4.10681
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	Acq.Date	Acq.Time	Name	ID	Sample Text	Type	Vial	Inj Vol	Sa.Size	F.V.	D.F.	
1	21-Nov-10	16:42:57	21NO10A6C_014	BLK	E090824-BLK with IS	Analyte	1:2	10	1.00	1.0	0.0	
2	21-Nov-10	16:56:03	21NO10A6C_015	ICAL-01	CS01 10LCMS0011 PFO Std 0.2ng/mL	Standard	1:3	10	1.00	1.0	1.0	
3	21-Nov-10	17:09:09	21NO10A6C_016	ICAL-02	CS02 10LCMS0012 PFO Std 0.5ng/mL	Standard	1:4	10	1.00	1.0	1.0	
4	21-Nov-10	17:22:15	21NO10A6C_017	ICAL-03	CS03 10LCMS0013 PFO Std 1.0ng/mL	Standard	1:5	10	1.00	1.0	1.0	
5	21-Nov-10	17:35:21	21NO10A6C_018	ICAL-04	CS04 10LCMS0014 PFO Std 2.0ng/mL	Standard	1:6	10	1.00	1.0	1.0	
6	21-Nov-10	17:48:28	21NO10A6C_019	ICAL-05	CS05 10LCMS0015 PFO Std 5.0ng/mL	Standard	1:7	10	1.00	1.0	1.0	
7	21-Nov-10	18:01:34	21NO10A6C_020	ICAL-06	CS06 10LCMS0016 PFO Std 10ng/mL	Standard	1:8	10	1.00	1.0	1.0	
8	21-Nov-10	18:14:41	21NO10A6C_021	ICAL-07	CS07 10LCMS0017 PFO Std 20ng/mL	Standard	1:9	10	1.00	1.0	1.0	
9	21-Nov-10	18:27:47	21NO10A6C_022	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0	
10	21-Nov-10	18:40:53	21NO10A6C_023	ICV	10LCMS0491 PFO ICV Std 5.0ng/mL	QC	1:10	10	1.00	1.0	0.0	
11	21-Nov-10	18:53:59	21NO10A6C_024	CCV-01	10LCMS0011 PFO Std 0.2ng/mL, MRL	QC	1:3	10	1.00	1.0	0.0	- OK
12	21-Nov-10	19:07:06	21NO10A6C_025	L9DED1AA	A0K010403-1, 0305395, 246.63mL/5.0mL, RI2	Analyte	2:1	10	0.25	5.0	1.0	
13	21-Nov-10	19:20:12	21NO10A6C_026	L9DED1AA	A0K010403-1, 0305395, 246.63mL/5.0mL, 50...	Analyte	2:2	10	0.25	5.0	1.0	
14	21-Nov-10	19:33:18	21NO10A6C_027	BLK	BLANK with IS	Analyte	1:2	10	1.00	1.0	0.0	
15	21-Nov-10	19:46:24	21NO10A6C_028	L9MQF1AAB	G0K010000-MB, 0322246, 250mL/5.0mL, RX	Analyte	2:3	10	0.25	5.0	1.0	
16	21-Nov-10	19:59:30	21NO10A6C_029	L9MQF1ACC	G0K010000-LCS, 0322246, 250mL/5.0mL	QC	2:4	10	0.25	5.0	1.0	
17	21-Nov-10	20:12:36	21NO10A6C_030	L9D742AA	G0K010468-1, 0322246, 235.01mL/5.0mL	Analyte	2:5	10	0.24	5.0	1.0	
18	21-Nov-10	20:25:43	21NO10A6C_031	L9D752AA	G0K010468-2, 0322246, 238.78mL/5.0mL	Analyte	2:6	10	0.24	5.0	1.0	
19	21-Nov-10	20:38:49	21NO10A6C_032	L9D751ACS	G0K010468-2MS, 0322246, 235.35mL/5.0mL	QC	2:7	10	0.24	5.0	1.0	
20	21-Nov-10	20:51:55	21NO10A6C_033	L9D751ADD	G0K010468-2SD, 0322246, 236.69mL/5.0mL	QC	2:8	10	0.24	5.0	1.0	
21	21-Nov-10	21:05:01	21NO10A6C_034	CCV-06	10LCMS0016 PFO Std 10ng/mL	QC	1:8	10	1.00	1.0	0.0	- OK
22	21-Nov-10	21:18:07	21NO10A6C_035	L98J81AAB	G0K010000-MB, 0322239, 250mL/5.0mL, RX	Analyte	2:9	10	0.25	5.0	1.0	
23	21-Nov-10	21:31:13	21NO10A6C_036	L98J81ACC	G0K010000-LCS, 0322239, 250mL/5.0mL	QC	2:10	10	0.25	5.0	1.0	
24	21-Nov-10	21:44:19	21NO10A6C_037	L9JPG2AA	A0K040500-1, 0322239, 235.86mL/5.0mL	Analyte	2:11	10	0.24	5.0	1.0	
25	21-Nov-10	21:57:25	21NO10A6C_038	L9JPJ2AA	A0K040500-2, 0322239, 241.54mL/5.0mL, 20X	Analyte	2:12	10	0.24	5.0	1.0	
26	21-Nov-10	22:10:32	21NO10A6C_039	L9JPJ1ACS	A0K040500-2MS, 0322239, 239.50mL/5.0mL, ...	QC	2:13	10	0.24	5.0	1.0	
27	21-Nov-10	22:23:38	21NO10A6C_040	L9JPJ1ADD	A0K040500-2SD, 0322239, 238.51mL/5.0mL, ...	QC	2:14	10	0.24	5.0	1.0	

Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Quantify Compound Summary Report **MassLynx 4.1 SCN 683**

TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11212010AA6C_PFO.qld
Last Altered: Monday, November 22, 2010 12:48:45 Pacific Standard Time
Printed: Monday, November 22, 2010 12:49:43 Pacific Standard Time

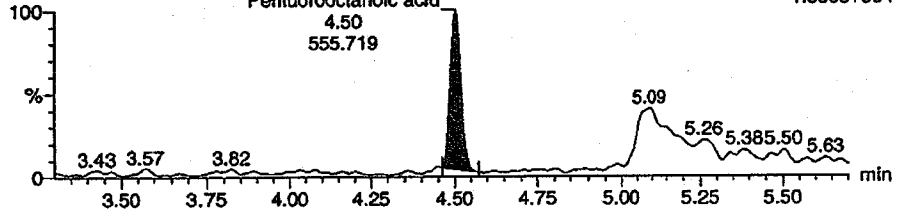
Compound name: Perfluorooctanoic acid

	Acq.Date	Acq.Time	Name	ID	Sample Text	Type	Vial	Inj.Vol	Sa.Size	F.V.	D.F.
28	21-Nov-10	22:36:44	21NO10A6C_041	L9JPK2AA	A0K040500-3, 0322239, 235.16mL/5.0mL, 2X	Analyte	2:15	10	0.24	5.0	1.0
29	21-Nov-10	22:49:50	21NO10A6C_042	L9JPL2AA	A0K040500-4, 0322239, 236.81mL/5.0mL	Analyte	2:16	10	0.24	5.0	1.0
30	21-Nov-10	23:02:56	21NO10A6C_043	CCV-04	10LCMS0014 PFO Std 2.0ng/mL	QC	1:6	10	1.00	1.0	0.0

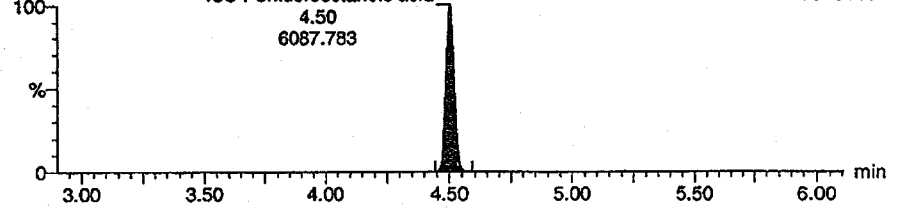
-ok

Date: 21-Nov-2010
Time: 16:56:03
Name: 21NO10A6C_015
ID: ICAL-01
Description: CS01 10LCMS0011 PFO Std 0.2ng/mL
Vial: 1:3
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

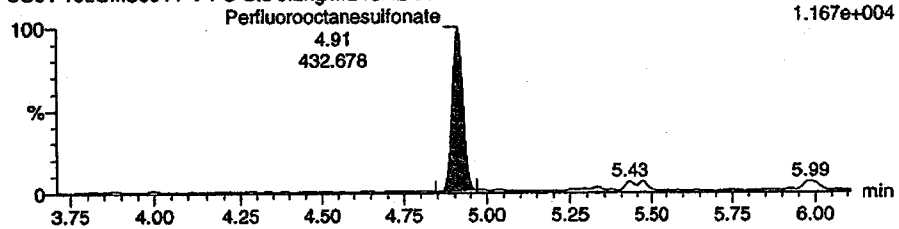
Perfluorooctanoic acid



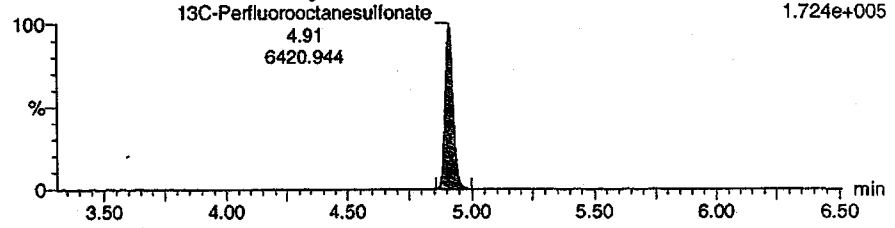
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



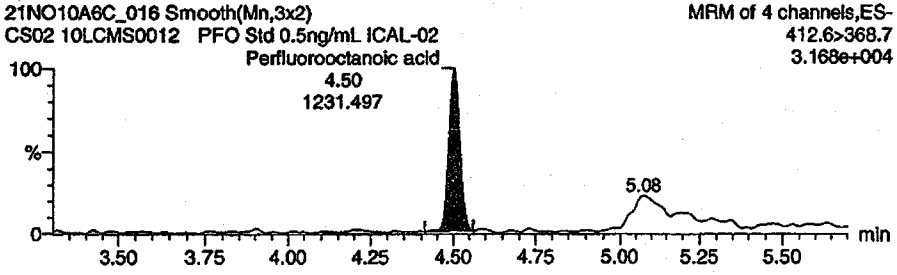
13C-Perfluorooctanesulfonate



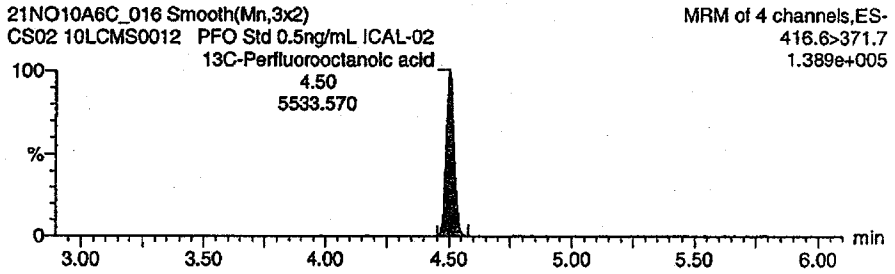
#	Name	Trace	Fred	RT	RT	Sa Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	1.0	555.719	40.6	bb	2	6087.783	0.21176	5.9	105.9	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	6087.783	3410.9	bb			2.57752	3.1	103.1	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.910	0.00	1.00	1.0	1.0	432.678	248.0	bb	4	6420.944	0.21132	5.7	105.7	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6420.944	2979.8	bb			2.53113	1.2	101.2	

Date: 21-Nov-2010
Time: 17:09:09
Name: 21NO10A6C_016
ID: ICAL-02
Description: CS02 10LCMS0012 PFO Std 0.5ng/mL
Vial: 1:4
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

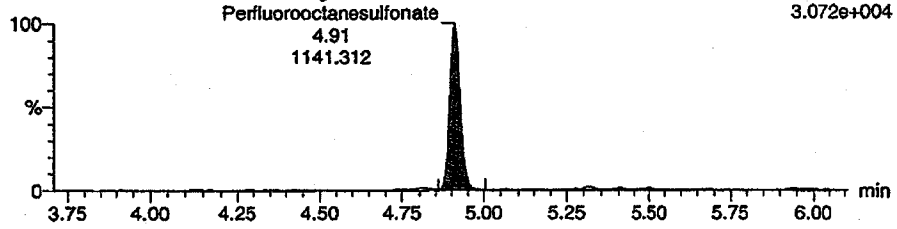
Perfluorooctanoic acid



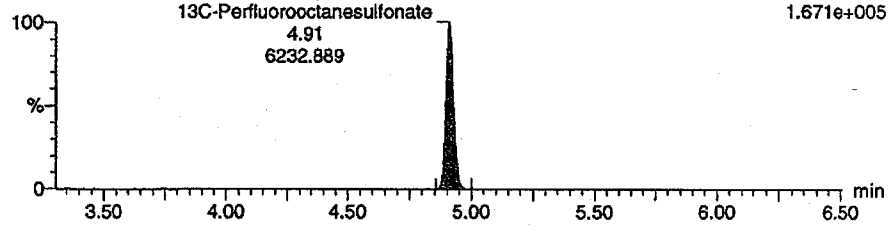
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



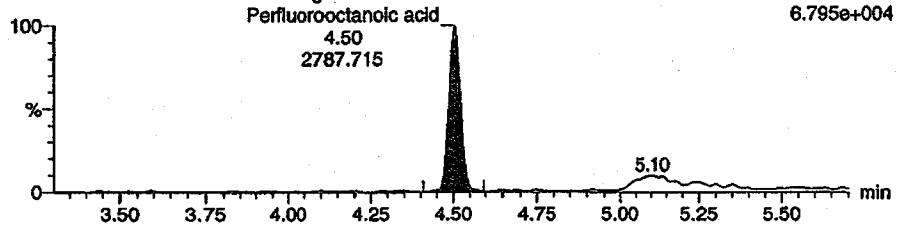
13C-Perfluorooctanesulfonate



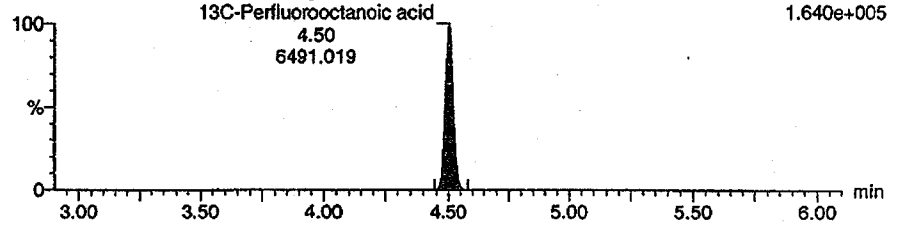
#	Name	Trace	Pred.	RT	RT	Sa Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	1.0	1231.497	65.8	bb	2	5533.570	0.51627	3.3	103.3	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	5533.570	879.5	bb			2.34287	-6.3	93.7	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.910	0.00	1.00	1.0	1.0	1141.312	588.8	db	4	6232.889	0.57422	14.8	114.8	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6232.889	3595.6	bb			2.45700	-1.7	98.3	

Date: 21-Nov-2010
Time: 17:22:15
Name: 21NO10A6C_017
ID: ICAL-03
Description: CS03 10LCMS0013 PFO Std 1.0ng/mL
Vial: 1:5
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

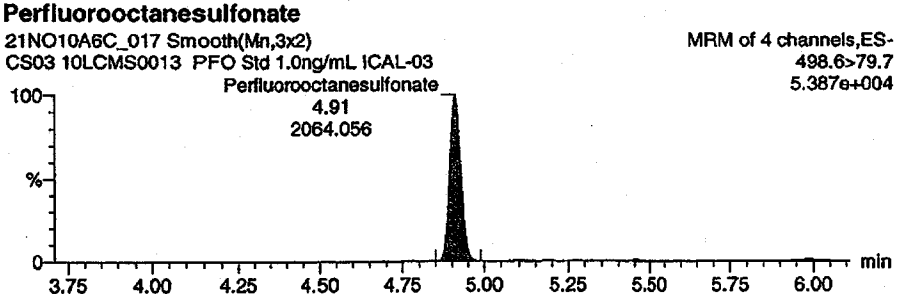
Perfluorooctanoic acid



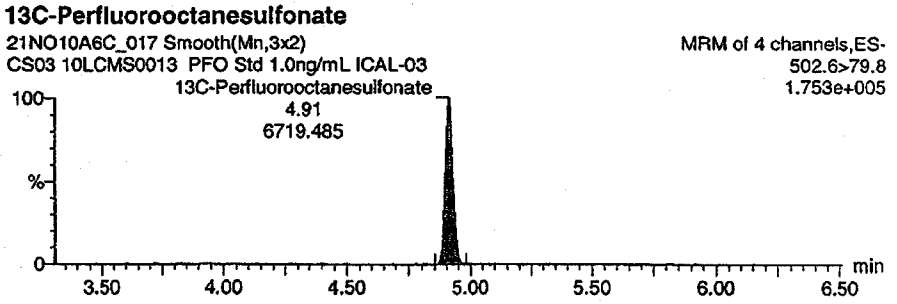
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



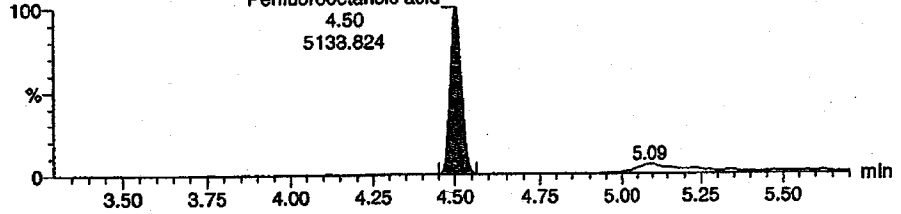
13C-Perfluorooctanesulfonate



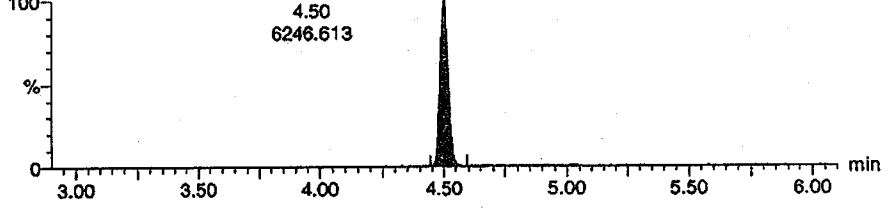
#	Name	Trace	Pred.	RT	RT	Sa.Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc.	%Dev.	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	1.0	2787.715	341.2	bb	2	6491.019	0.99629	-0.4	99.6	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	6491.019	1285.8	bb			2.74825	9.9	109.9	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.910	0.00	1.00	1.0	1.0	2064.056	856.5	bb	4	6719.485	0.96328	-3.7	96.3	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6719.485	2629.6	bb			2.64881	6.0	106.0	

Date: 21-Nov-2010
Time: 17:35:21
Name: 21NO10A6C_018
ID: ICAL-04
Description: CS04 10LCMS0014 PFO Std 2.0ng/mL
Vial: 1:6
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

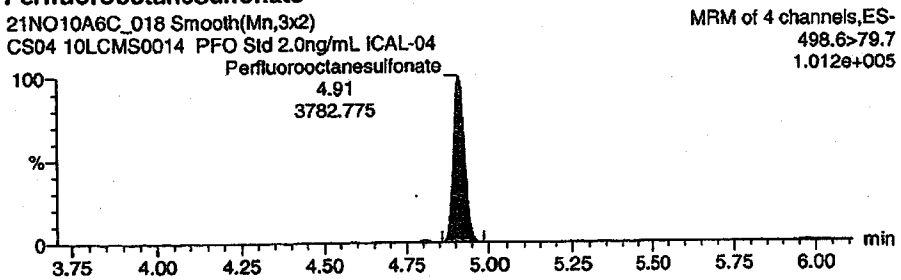
Perfluorooctanoic acid



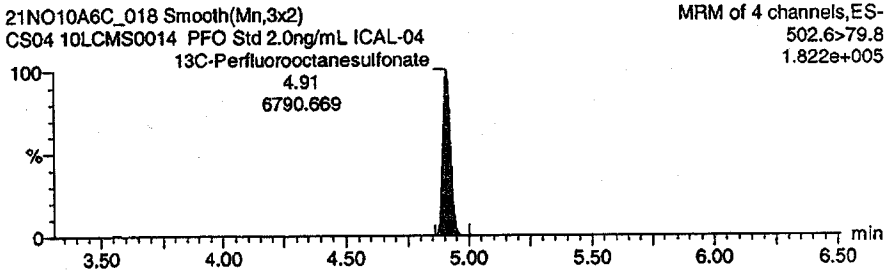
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

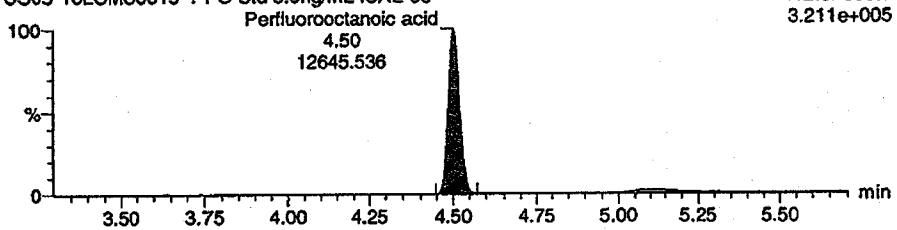


#	Name	Trace	Pred.	RT	ΔRT	Sa	Size	F.V.	D.F.	Area	C	S/N	Flags	IS#	IS Area	Conc.	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	1.0	5133.824	559.2		db	2	6246.613		1.90655	-4.7	95.3	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	6246.613	1886.7		bb				2.64477	5.8	105.8	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.910	0.00	1.00	1.0	1.0	3782.775	1508.5		bb	4	6790.669		1.74689	-12.7	87.3	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6790.669	3098.8		bb				2.67687	7.1	107.1	

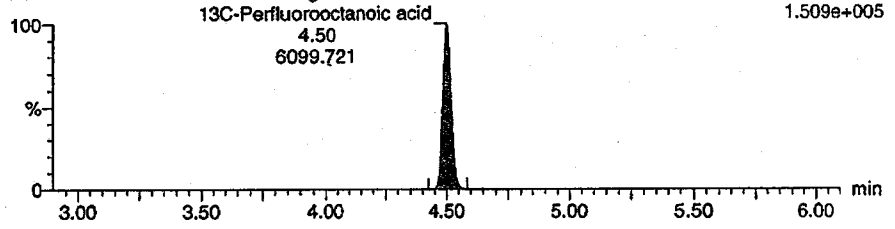
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11212010AA6C_PFO.qld
Last Altered: Monday, November 22, 2010 12:48:45 Pacific Standard Time
Printed: Monday, November 22, 2010 12:49:43 Pacific Standard Time

Date: 21-Nov-2010
Time: 17:48:28
Name: 21NO10A6C_019
ID: ICAL-05
Description: CS05 10LCMS0015 PFO Std 5.0ng/mL
Vial: 1:7
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

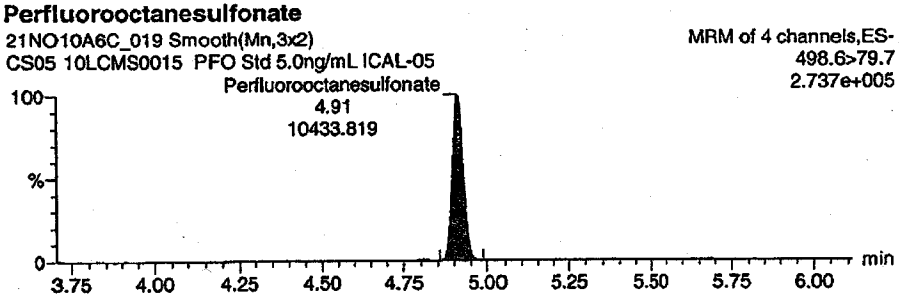
Perfluorooctanoic acid



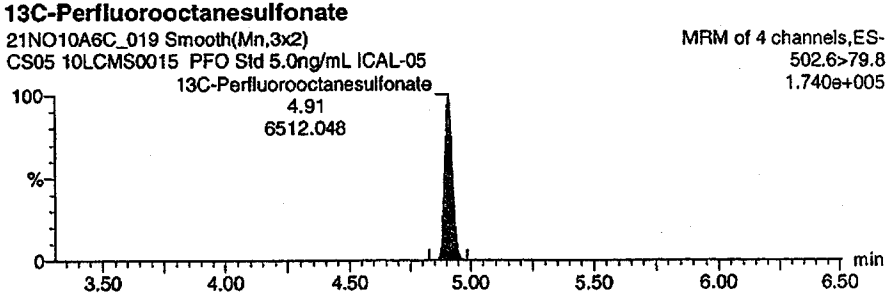
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

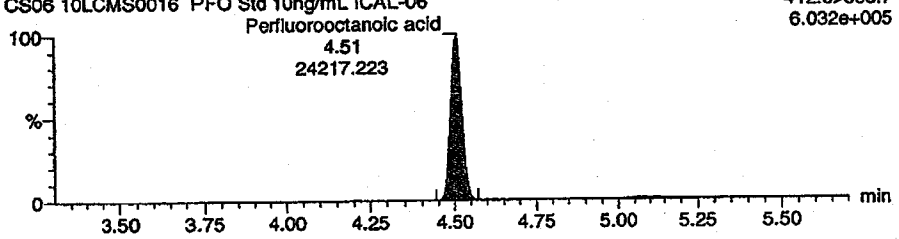


#	Name	Trace	RT	Pred. RT	ΔRT	Sa Size	F-V	D-F	Area	S/N	Flags	IS #	IS Area	Conc	%Dev	%Rec	Mod Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	1.0	12645.536	815.3	bb	2	6099.721	4.80926	-3.8	96.2	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	6099.721	1297.5	bb			2.58258	3.3	103.3	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.910	0.00	1.00	1.0	1.0	10433.819	4006.3	bb	4	6512.048	5.02449	0.5	100.5	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6512.048	2115.5	bb			2.56704	2.7	102.7	

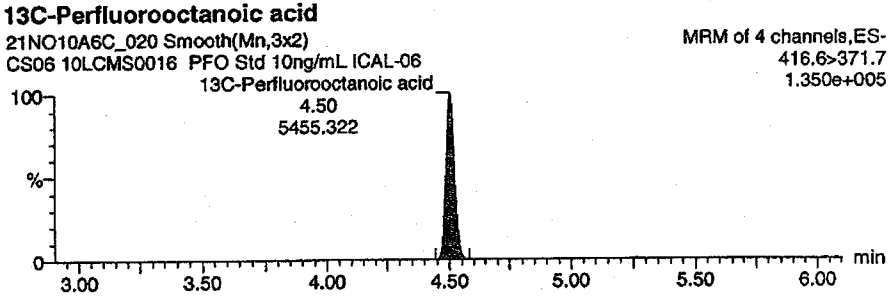
Quantify Sample Report **MassLynx 4.1 SCN 683**
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11212010AA6C_PFO.qld
Last Altered: Monday, November 22, 2010 12:48:45 Pacific Standard Time
Printed: Monday, November 22, 2010 12:49:43 Pacific Standard Time

Date: 21-Nov-2010
Time: 18:01:34
Name: 21NO10A6C_020
ID: ICAL-06
Description: CS06 10LCMS0016 PFO Std 10ng/mL
Vial: 1:8
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

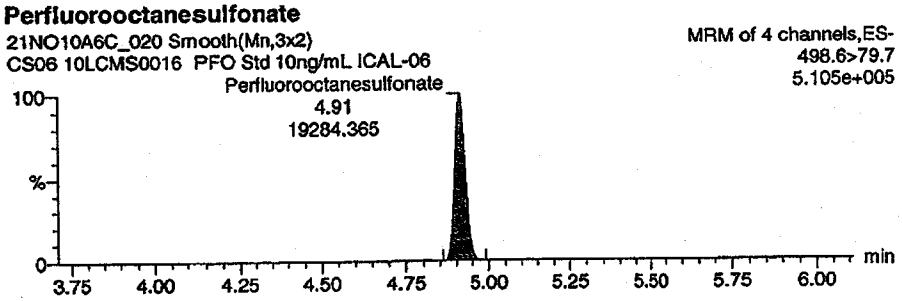
Perfluorooctanoic acid



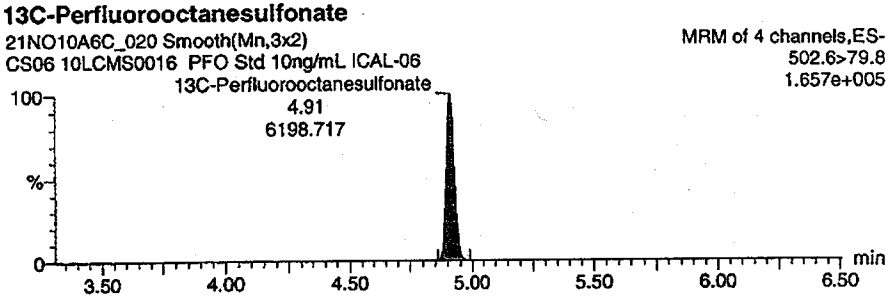
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate

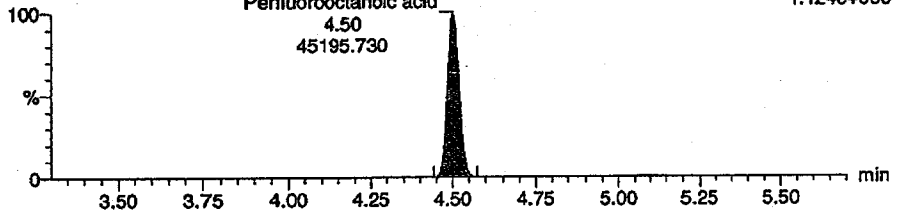


#	Name	Trace	Pred.	RT	RT Sa	Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc.	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.506	0.00	1.00	1.0	1.0	24217.223	3045.5	bb	2	5455.322	10.29805	3.0	103.0	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	5455.322	1423.5	bb			2.30974	-7.6	92.4	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.914	0.00	1.00	1.0	1.0	19284.365	12550.4	bb	4	6198.717	9.75596	-2.4	97.6	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6198.717	2727.6	bb			2.44353	-2.3	97.7	

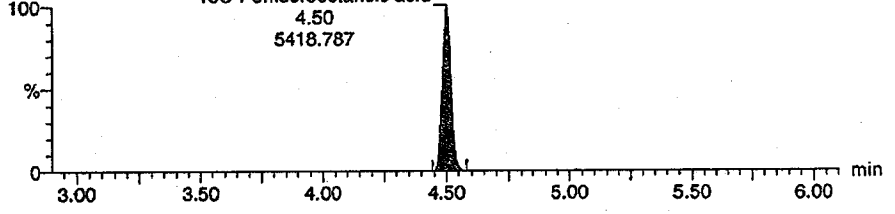
Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Date: 21-Nov-2010
Time: 18:14:41
Name: 21NO10A6C_021
ID: ICAL-07
Description: CS07 10LCMS0017 PFO Std 20ng/mL
Vial: 1:9
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

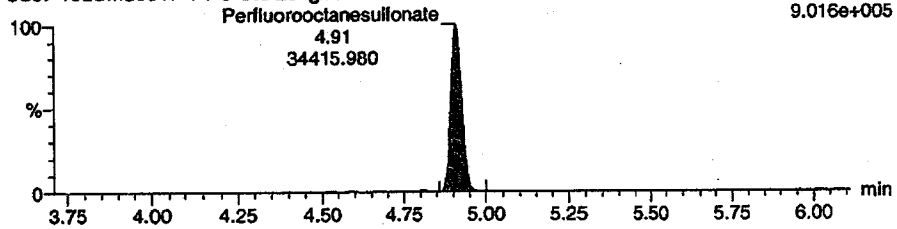
Perfluorooctanoic acid



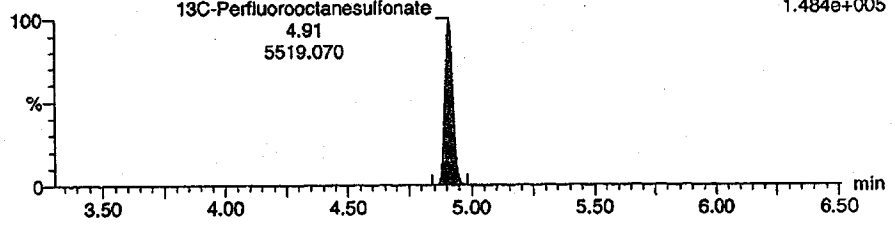
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate



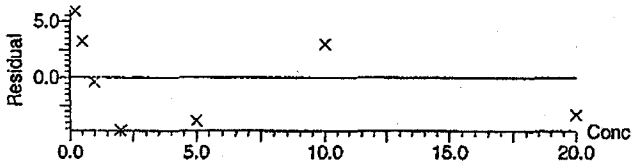
#	Name	Trace	%Pred	RT	ΔRT	Sa	Size	F.V.	D.F.	Area	S/N	Flags	IS#	IS Area	Conc.	%Dev.	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	1.0	45195.730	2729.1	bb	2	5418.787	19.34846	-3.3	96.7		
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	5418.787	2253.8	bb			2.29427	-8.2	91.8		
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.910	0.00	1.00	1.0	1.0	34415.980	19282.8	bb	4	5519.070	19.55513	-2.2	97.8		
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	5519.070	3032.4	bb			2.17561	-13.0	87.0		

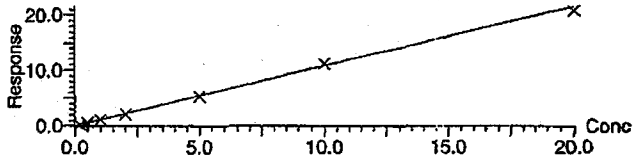
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11212010AA6C_PFO.qld
Last Altered: Monday, November 22, 2010 12:48:45 Pacific Standard Time
Printed: Monday, November 22, 2010 12:49:43 Pacific Standard Time

ICAL in control

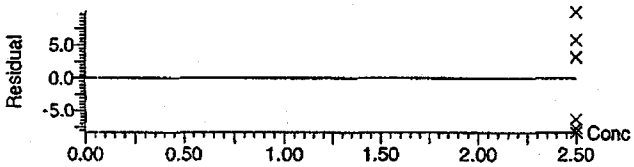
Method: C:\MassLynx\JAN2010.PRO\MethDB\PFO.mdb 22 Nov 2010 12:34:39
Calibration: 22 Nov 2010 12:34:39

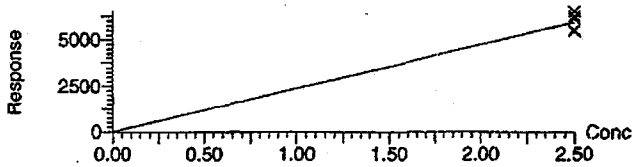
Compound name: Perfluorooctanoic acid
Response Factor: 1.07768
RRF SD: 0.0442582, % Relative SD: 4.10681 ✓
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



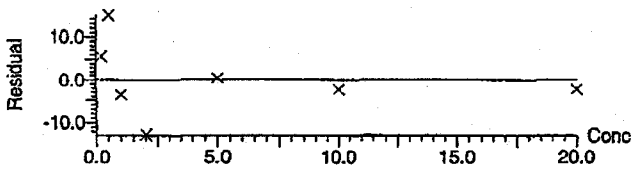


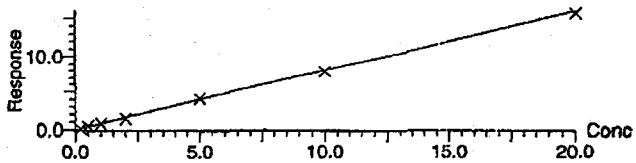
Compound name: 13C-Perfluorooctanoic acid
Response Factor: 2361.88
RRF SD: 171.893, % Relative SD: 7.27781 ✓
Response type: External Std, Area
Curve type: RF



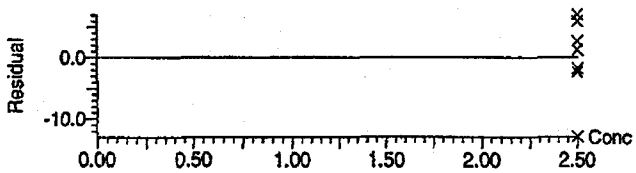


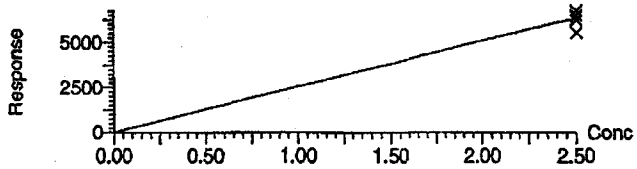
Compound name: Perfluorooctanesulfonate
Response Factor: 0.797212
RRF SD: 0.0680498, % Relative SD: 8.53598 ✓
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF





Compound name: 13C-Perfluorooctanesulfonate
Response Factor: 2536.79
RRF SD: 170.38, % Relative SD: 6.71635 ✓
Response type: External Std, Area
Curve type: RF





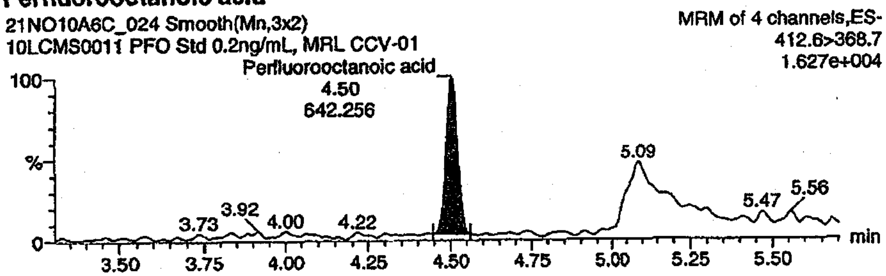
Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

Quantify Sample Report **MassLynx 4.1 SCN 683**

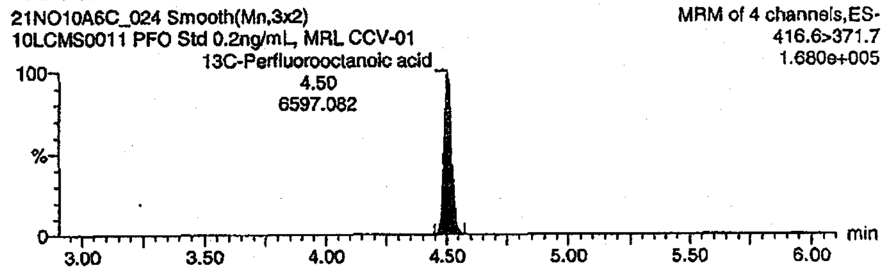
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11212010AA6C_PFO.qld
Last Altered: Monday, November 22, 2010 12:48:45 Pacific Standard Time
Printed: Monday, November 22, 2010 12:49:43 Pacific Standard Time

Date: 21-Nov-2010
Time: 18:53:59
Name: 21NO10A6C_024
ID: CCV-01
Description: 10LCMS0011 PFO Std 0.2ng/mL, MRL
Vial: 1:3
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

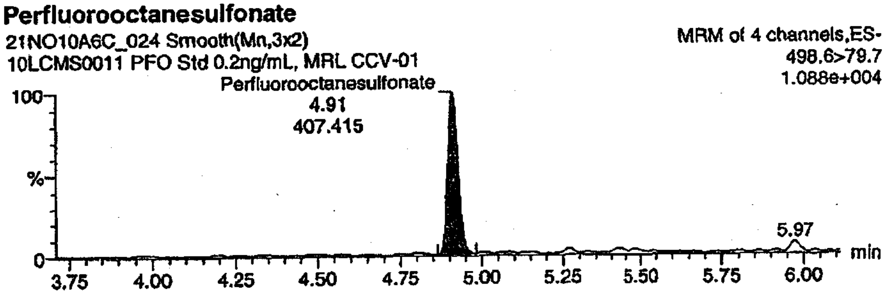
Perfluorooctanoic acid



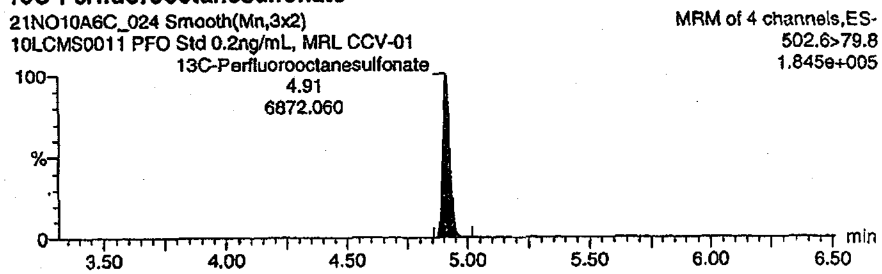
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate



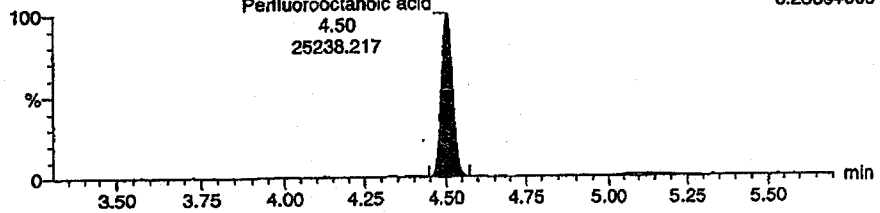
#	Name	Trace	Pred	RT	ΔRT	Sa Size	RiV	D.F.	Area	S/N	Flags	IS#	IS Area	Conc.	%Dev	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	0.0	642.256	57.2	bb	2	6597.082	0.22584	12.9	112.9	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	6597.082	2883.5	bb			2.79315	11.7	111.7	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.910	0.00	1.00	1.0	0.0	407.415	119.0	bb	4	6872.060	0.18592	-7.0	93.0	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6872.060	3166.9	bb			2.70896	8.4	108.4	

CCV @ RL in control (MRL)
DEh 11-22-10

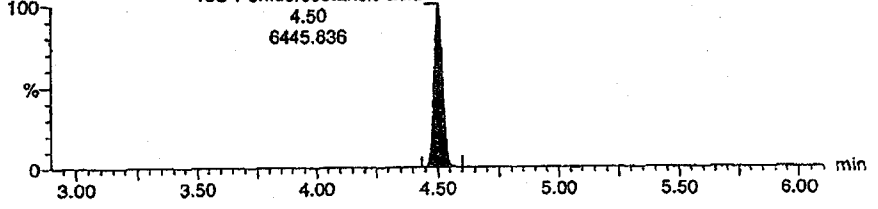
Quantify Sample Report **MassLynx 4.1 SCN 683**
TestAmerica, West Sacramento
Dataset: C:\MassLynx\JAN2010.PRO\ICV11212010AA6C_PFO.qld
Last Altered: Monday, November 22, 2010 12:48:45 Pacific Standard Time
Printed: Monday, November 22, 2010 12:49:43 Pacific Standard Time

Date: 21-Nov-2010
Time: 21:05:01
Name: 21NO10A6C_034
ID: CCV-06
Description: 10LCMS0016 PFO Std 10ng/mL
Vial: 1:8
Conditions: Acquity C18 BEH 1.7um, 50x2.1mm, 50*C
User: deg

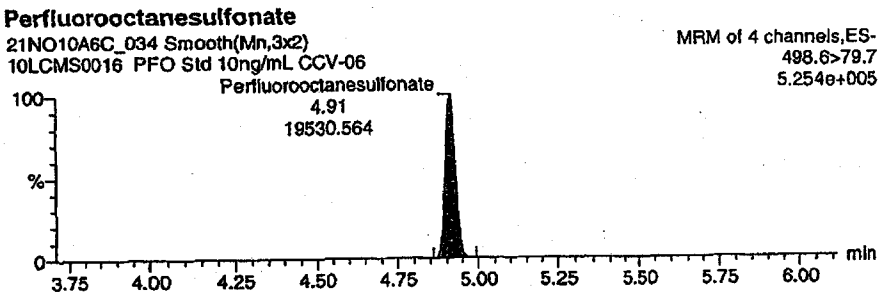
Perfluorooctanoic acid



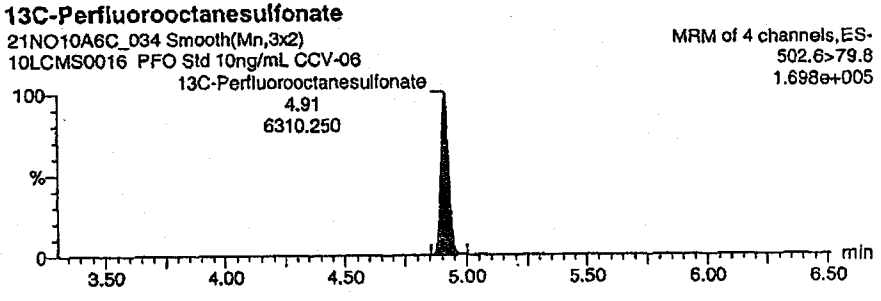
13C-Perfluorooctanoic acid



Perfluorooctanesulfonate



13C-Perfluorooctanesulfonate



#	Name	Trace	Pred	RT	ΔRT	Sa Size	F.V.	%D.F.	Area	S/N	Flags	IS#	IS Area	Conc.	%DeV	%Rec	Mod.Date
1	Perfluorooctanoic acid	412.6>368.7	4.502	4.502	0.00	1.00	1.0	0.0	25238.217	2301.7	bb	2	6445.836	9.08303	-9.2	90.8	
2	13C-Perfluorooctanoic acid	416.6>371.7	4.502	4.502	0.00	1.00	1.0	1.0	6445.836	2566.7	bb			2.72912	9.2	109.2	
3	Perfluorooctanesulfonate	498.6>79.7	4.910	4.914	0.00	1.00	1.0	0.0	19530.564	1373.3	bb	4	6310.250	9.70587	-2.9	97.1	
4	13C-Perfluorooctanesulfonate	502.6>79.8	4.910	4.910	0.00	1.00	1.0	1.0	6310.250	2665.3	bb			2.48749	-0.5	99.5	

CCV in control DK 11-22-2010

Instr ID A6; Quattro Premier XE, SN VAB1006. PFOA/PFOS Analysis by LC/MS/MS, WS-LC-0020

METHOD BLANK REPORT

HPLC

Client Lot #...: G0K010468 **Work Order #...:** L98K81AA **Matrix.....:** WATER
MB Lot-Sample #: G0K180000-246

Prep Date.....: 11/18/10
Analysis Date..: 11/21/10 **Prep Batch #...:** 0322246
Dilution Factor: 1

PARAMETER	RESULT	LOQ	UNITS	METHOD
PFOA	2.0 U	4.0	ng/L	SAC WS-LC-0020
PFOS	2.0 U	4.0	ng/L	SAC WS-LC-0020

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	80	(50 - 200)
13C4 PFOS	68	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: G0K010468 **Work Order #...:** L98K81AC **Matrix.....:** WATER
LCS Lot-Sample#: G0K180000-246
Prep Date.....: 11/18/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0322246
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
PFOA	**20.0**	**21.2**	**ng/L**	**106**	**SAC WS-LC-002**
PFOS	**20.0**	**20.5**	**ng/L**	**103**	**SAC WS-LC-002**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	76	(50 - 200)
13C4 PFOS	70	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: G0K010468 **Work Order #...:** L98K81AC **Matrix.....:** WATER
LCS Lot-Sample#: G0K180000-246
Prep Date.....: 11/18/10 **Analysis Date..:** 11/21/10
Prep Batch #...: 0322246
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
PFOA	**106**	**(70 - 130)**	**SAC WS-LC-0020**
PFOS	**103**	**(70 - 130)**	**SAC WS-LC-0020**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	76	(50 - 200)
13C4 PFOS	70	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: G0K010468 Work Order #...: L9D751AC-MS Matrix.....: WATER
MS Lot-Sample #: G0K010468-002 L9D751AD-MSD
Date Sampled...: 10/29/10 Date Received..: 10/30/10
Prep Date.....: 11/18/10 Analysis Date..: 11/21/10
Prep Batch #...: 0322246
Dilution Factor: 1.06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
PFOA	22	21.2	44.2	ng/L	103		SAC WS-LC-0020
	22	21.1	46.3	ng/L	113	4.6	SAC WS-LC-0020
PFOS	2.1 U	21.2	21.8	ng/L	99		SAC WS-LC-0020
	2.1 U	21.1	20.9	ng/L	96	4.1	SAC WS-LC-0020

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	91	(50 - 200)
	85	(50 - 200)
13C4 PFOS	77	(50 - 200)
	90	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: G0K010468 Work Order #...: L9D751AC-MS Matrix.....: WATER
MS Lot-Sample #: G0K010468-002 L9D751AD-MSD
Date Sampled...: 10/29/10 Date Received..: 10/30/10
Prep Date.....: 11/18/10 Analysis Date..: 11/21/10
Prep Batch #...: 0322246
Dilution Factor: 1.06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
PFOA	**103**	**(70 - 130)**			**SAC WS-LC-0020**
	113	**(70 - 130)**	**4.6**	**(0-20)**	**SAC WS-LC-0020**
PFOS	**99**	**(70 - 130)**			**SAC WS-LC-0020**
	96	**(70 - 130)**	**4.1**	**(0-20)**	**SAC WS-LC-0020**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	91	(50 - 200)
	85	(50 - 200)
13C4 PFOS	77	(50 - 200)
	90	(50 - 200)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	BRUNSWICK_NAS	G0K010468							N6247008D1001	WE49	TETRA TECH NUS, INC.	NASB-AOPI-RB01-102910	Water for QC samples	Equipment blank	29-Oct-10	TA_WS-LC-0025	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	G0K010468	FTA		FTA-MW08	Monitoring well	3012125.52	384076.14	N6247008D1001	WE49	TETRA TECH NUS, INC.	NASB-FTA-MW08	Ground water	Normal (Regular)	29-Oct-10	TA_WS-LC-0025	Perfluoroalkyl Compounds