



STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

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www.stl-inc.com

ANALYTICAL REPORT

PFOA/PFOS Analysis

Lot #: D7D180342

Laura Vancho/Jane Hanszczyk

NJ American Water
213 Carriage Lane
Delran, NJ 08075

Severn Trent Laboratories, Inc./STL Denver

A handwritten signature in black ink, appearing to read "Gail DeRuzzo".

Gail DeRuzzo
Project Manager

May 4, 2007

Case Narrative

D7D180342

The results included in this report have been reviewed for compliance with the Laboratory Quality Manual. All results have been found to meet all requirements of NELAC and any exceptions are noted below.

This report shall not be reproduced except in full, without the written approval of the laboratory or sponsor. Dilution factors and footnotes have been provided on each datasheet to assist in the interpretation of the results.

Sample Arrival and Receipt

The five water samples presented in this report was received at the STL Denver laboratory at a temperature of 4.6°C on April 18, 2007.

Standards

Analytical standards were prepared using the acid form of the compound perfluorooctanoic acid (PFOA). PFOS is a commercial prepared and certified solution.

A di-carbon-13 labeled perfluorooctanoic acid, [1,2-di-¹³C] was introduced at the extraction step and was used as an internal standard for quantitation of PFOA and PFOS.

Sample Extraction and Analysis

The samples presented in this report were analyzed for the target analytes by STL Denver's SOP DEN-LC-0012.

For water samples a 250 mL aliquot of each sample is acidified with 1 mL of 6N HCl solution and it is extracted using solid phase extraction technique with methanol conditioned C18 cartridges. Each sample is spiked with the internal standard, prior to extraction. After the sample is passed through the cartridge, the analytes are eluted with 4 mL of methanol. The final volume is brought to 5 mL using methanol and the extract is analyzed by LC/MS/MS.

Method QC Samples

The Method Blank is processed reagent water spiked with surrogate and prepared with each batch of 20 samples of the same matrix. The method blank was non-detect at the reporting limit for the target analytes.

Each batch is prepared with Laboratory Control Samples (LCS). The LCS recoveries for both levels were within established control limits. Due to limited sample volume, no matrix spikes were performed. Because the LCS data were in control, no corrective action was necessary.

Analytical Comments

The surrogate recovery for 13C4 PFOS was below the lower control limit in the low level LCS in QC batch 7114515. Because the LCS recoveries are in control and the control limits are default limits only, no corrective action was necessary.

No other anomalies were noted.

EXECUTIVE SUMMARY - Detection Highlights

D7D180342

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
BIRCH CREEK POB 04/17/07 08:25 001				
PFOS	0.0067 J	0.010	ug/L	DEN -LC-0012
PFOA	0.062	0.015	ug/L	DEN -LC-0012
BIRCH CREEK WELL 6 04/17/07 08:20 002				
PFOS	0.0072 J	0.010	ug/L	DEN -LC-0012
PFOA	0.061	0.015	ug/L	DEN -LC-0012
BIRCH CREEK WELL 4 04/17/07 08:45 003				
PFOS	0.0021 J	0.010	ug/L	DEN -LC-0012
PFOA	0.029	0.015	ug/L	DEN -LC-0012
DRRWTP INLET 04/17/07 13:05 004				
PFOS	0.0045 J	0.010	ug/L	DEN -LC-0012
PFOA	0.0094 J	0.015	ug/L	DEN -LC-0012
DRRWTP PE 04/17/07 13:05 005				
PFOS	0.0047 J	0.010	ug/L	DEN -LC-0012
PFOA	0.010 J	0.015	ug/L	DEN -LC-0012

METHODS SUMMARY

D7D180342

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
LC/MS/MS, PFOA	DEN -LC-0012	

References:

DEN Severn Trent Laboratores, Denver, Facility Standard
Operating Procedure.

METHOD / ANALYST SUMMARY

D7D180342

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
DEN -LC-0012	Mark Dymerski	004626

References:

DEN Severn Trent Laboratores, Denver, Facility Standard
 Operating Procedure.

SAMPLE SUMMARY

D7D180342

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
JT6V0	001	BIRCH CREEK	POE	04/17/07	08:25
JT6V1	002	BIRCH CREEK	WELL 6	04/17/07	08:20
JT6V2	003	BIRCH CREEK	WELL 4	04/17/07	08:45
JT6V3	004	DRRWTP	INLET	04/17/07	13:05
JT6V4	005	DRRWTP	PE	04/17/07	13:05

NOTE(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.

American Water Company

Client Sample ID: BIRCH CREEK POE

HPLC

Lot-Sample #....: D7D180342-001 Work Order #....: JT6V01AA Matrix.....: WATER
Date Sampled....: 04/17/07 08:25 Date Received...: 04/18/07
Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
Prep Batch #....: 7114515 Analysis Time...: 00:56
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
PFOS	0.0067 J	0.010	ug/L	0.0020
PFOA	0.062	0.015	ug/L	0.0031

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	70	(50 - 200)
13C4 PFOS	60	(50 - 200)

NOTE(S) :

1 Estimated result. Result is less than RL.

STL Denver

DEP2-SDWB-000340

American Water Company

Client Sample ID: BIRCH CREEK WELL 6

HPLC

Lot-Sample #...: D7D180342-002 Work Order #...: JT6V11AA Matrix.....: WATER
Date Sampled...: 04/17/07 08:20 Date Received...: 04/18/07
Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
Prep Batch #...: 7114515 Analysis Time...: 01:09
Dilution Factor: 1
Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
PFOS	0.0072 J	0.010	ug/L	0.0020
PFOA	0.061	0.015	ug/L	0.0031

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	77	(50 - 200)
13C4 PFOS	71	(50 - 200)

NOTE(S) :

J Estimated result. Result is less than RL.

American Water Company

Client Sample ID: BIRCH CREEK WELL 4

HPLC

Lot-Sample #...: D7D180342-003 Work Order #...: JT6V21AA Matrix.....: WATER
Date Sampled...: 04/17/07 08:45 Date Received...: 04/18/07
Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
Prep Batch #...: 7114515 Analysis Time...: 01:22
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
PFOS	0.0021 J	0.010	ug/L	0.0020
PFOA	0.029	0.015	ug/L	0.0031

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	77	(50 - 200)
13C4 PFOS	69	(50 - 200)

NOTE(S) :

J Estimated result. Result is less than RL.

American Water Company

Client Sample ID: DRRWTP INLET

HPLC

Lot-Sample #...: D7D180342-004 Work Order #...: JT6V31AA Matrix.....: WATER
Date Sampled...: 04/17/07 13:05 Date Received...: 04/18/07
Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
Prep Batch #...: 7114515 Analysis Time...: 01:35
Dilution Factor: 1
Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
PFOS	0.0045 J	0.010	ug/L	0.0020
PFOA	0.0094 J	0.015	ug/L	0.0031

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	77	(50 - 200)
13C4 PFOS	83	(50 - 200)

NOTE(S) :

J Estimated result. Result is less than RL.

American Water Company

Client Sample ID: DRRWTP PE

HPLC

Lot-Sample #...: D7D180342-005 Work Order #...: JT6V41AA Matrix.....: WATER
Date Sampled...: 04/17/07 13:05 Date Received...: 04/18/07
Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
Prep Batch #...: 7114515 Analysis Time...: 01:47
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
PFOS	0.0047 J	0.010	ug/L	0.0020
PFOA	0.010 J	0.015	ug/L	0.0031

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	81	(50 - 200)
13C4 PFOS	89	(50 - 200)

NOTE(S):

J Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

D7D180342

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	DEN -LC-0012		7114515	
002	WATER	DEN -LC-0012		7114515	
003	WATER	DEN -LC-0012		7114515	
004	WATER	DEN -LC-0012		7114515	
005	WATER	DEN -LC-0012		7114515	

METHOD BLANK REPORT

HPLC

Client Lot #...: D7D180342 Work Order #...: JVKEK1AA Matrix.....: WATER
 MB Lot-Sample #: R7D240000-515 Prep Date.....: 04/21/07 Analysis Time...: 00:17
 Analysis Date...: 04/26/07 Prep Batch #...: 7114515
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
PFOA	ND	0.015	ug/L	DEN -LC-0012
PFOS	ND	0.010	ug/L	DEN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	68	(50 - 200)
13C4 PFOS	63	(50 - 200)

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: D7D180342 Work Order #...: JVKEK1AC Matrix.....: WATER
 LCS Lot-Sample#: R7D240000-515
 Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
 Prep Batch #...: 7114515 Analysis Time...: 00:30
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
PFOA	120	(70 - 130)	DEN -LC-0012
PFOS	90	(39 - 120)	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	75	(50 - 200)
13C4 PFOS	66	(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 DATA REPORT

HPLC

Client Lot #...: D7D180342 Work Order #...: JVKEK1AC Matrix.....: WATER
 LCS Lot-Sample#: R7D240000-515
 Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
 Prep Batch #...: 7114515 Analysis Time...: 00:30
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
PFOA	0.200	0.240	ug/L	120	DEN -LC-0012
PFOS	0.200	0.180	ug/L	90	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	75	(50 - 200)
13C4 PFOS	66	(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 #...: D7D180342 Work Order #...: JVKEK1AD Matrix.....: WATER
 LCS Lot-Sample#: R7D240000-515
 Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
 Prep Batch #...: 7114515 Analysis Time...: 00:43
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
PFOA	102	(70 - 130)	DEN -LC-0012
PFOS	77	(39 - 120)	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	56	(50 - 200)
13C4 PFOS	47 *	(50 - 200)

NOTE(S) :

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #....: D7D180342 Work Order #....: JVKEK1AD Matrix.....: WATER
 LCS Lot-Sample#: R7D240000-515
 Prep Date.....: 04/21/07 Analysis Date...: 04/26/07
 Prep Batch #....: 7114515 Analysis Time...: 00:43
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
PFOA	0.0200	0.0205	ug/L	102	DEN -LC-0012
PFOS	0.0200	0.0153	ug/L	77	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C4 PFOA	56	(50 - 200)
13C4 PFOS	47 *	(50 - 200)

NOTE (S) :

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

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Chain of Custody Number
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Page 1 of 1

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Special Instructions
Conditions of Release

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may be assessed if samples are retained

than 1 month)

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STL	Denver
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LC/MS
Supporting Documentation

Sample Sequence, Chromatograms/Mass Spectra

STL

Lot ID: D7D180342

Client: American Water Company

Method: PFOA / PFOS

Associated Samples: 1-5

Batch #(s): 7114515

*I certify that, to the best of my knowledge, the attached package
represents a complete and accurate copy of the original data.*

Signature/Date: CHW Mett 5.4.07

**LC/MS SEMIVOLATILE
ORGANIC EXTRACTION
LOG SHEETS**

STL

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/24/07
Time: 4:27

21

LEV	LEV	LEV	LEV
1	2	1	2
Blank	Blank	Weights/Volumes	
Y	Y	Spike & Surrogate Worksheet	
Y	Y	Vial contains correct volume	
MS/MSD	Y	Labels, greenbars, worksheets	
	Y	computer batch: correct & all match	
	Y	Anomalies to Extraction Method	

Extractionist: 003601 Jaqueline Bonnett

Concentrationist: 003601 Jaqueline Bonnett

* QC BATCH: 7114515 *

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

PREP DATE: 4/21/07 19:00
COMP DATE: 4/21/07 23:30

Reviewer/Date: BONNETJA / 4/24/07

IC/MS/MS, PROA
SOLID PHASE EXTRACTION (NOMINAL)

EXTR	ANL	LOT#	MSRUN#	TEST	EXT	MTX	MATRIX	INIT	FIN	PHS	ADJ1	ADJ2	EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
EXPR	DUE	WORK	ORDER	FLGS				WT/VOL		INIT							

4/24/07	4/30/07	D7D180342-001		DR	B7	H5	WATER	256mL	5.00mL	7.0	2.0	NA	MEOH	4.0			1ML LCMS0039 04.24.07
COMMENTS:																	

4/24/07	4/30/07	D7D180342-002		DR	B7	H5	WATER	240mL	5.00mL	7.0	2.0	NA	MEOH	4.0			1ML LCMS0039 04.24.07
COMMENTS:																	

4/24/07	4/30/07	D7D180342-003		DR	B7	H5	WATER	253mL	5.00mL	7.0	2.0	NA	MEOH	4.0			1ML LCMS0039 04.24.07
COMMENTS:																	

4/24/07	4/30/07	D7D180342-004		DR	B7	H5	WATER	251mL	5.00mL	7.0	2.0	NA	MEOH	4.0			1ML LCMS0039 04.24.07
COMMENTS:																	

4/24/07	4/30/07	D7D180342-005		DR	B7	H5	WATER	244mL	5.00mL	7.0	2.0	NA	MEOH	4.0			1ML LCMS0039 04.24.07
COMMENTS:																	

4/24/07	0/00/00	R7D240000-515			B7	H5	WATER	250mL	5.00mL	7.0	2.0	NA	MEOH	4.0			1ML LCMS0039 04.24.07
COMMENTS:																	

4/24/07	0/00/00	R7D240000-515			B7	H5	WATER	250mL	5.00mL	7.0	2.0	NA	MEOH	4.0			1ML LCMS0028 04.18.07
COMMENTS:																	

STL Denver

ROC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/24/07
Time: 4:27

* QC BATCH: 7114515 *

PREP DATE: 4/21/07 19:00
COMP DATE: 4/21/07 23:30

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSRUN# /	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID				
4/24/07	0/00/00	R7D240000-515			B7	H5	WATER	250mL	7.0	2.0	NA	MEOH	4.0	.0	0.1	ML LCM80028	04.18.07
COMMENTS: 5.00mL 1 LCM80039 04.24.07																	

DEN-IC-0012 MEOH:C34E61 BAL:M27995 S/S:JCB-C W:KH H2O:ELGA CART:0715906
SHARE WITH 7114514

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL) NUMBER OF WORK ORDERS IN BATCH: 8
M = CLIENT REQ MS/MSD

**LC/MS SEMIVOLATILE
STANDARD DATA**

STL

Quantity Calibration Report MassLynx 4.1

PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Method: C:\MassLynx\PFOA.PRO\Method\p37d25.mdb 26 Apr 2007 07:49:52

Calibration: C:\MassLynx\Picric Acid.PRO\Curve\p37d25.cdb 27 Apr 2007 10:20:34

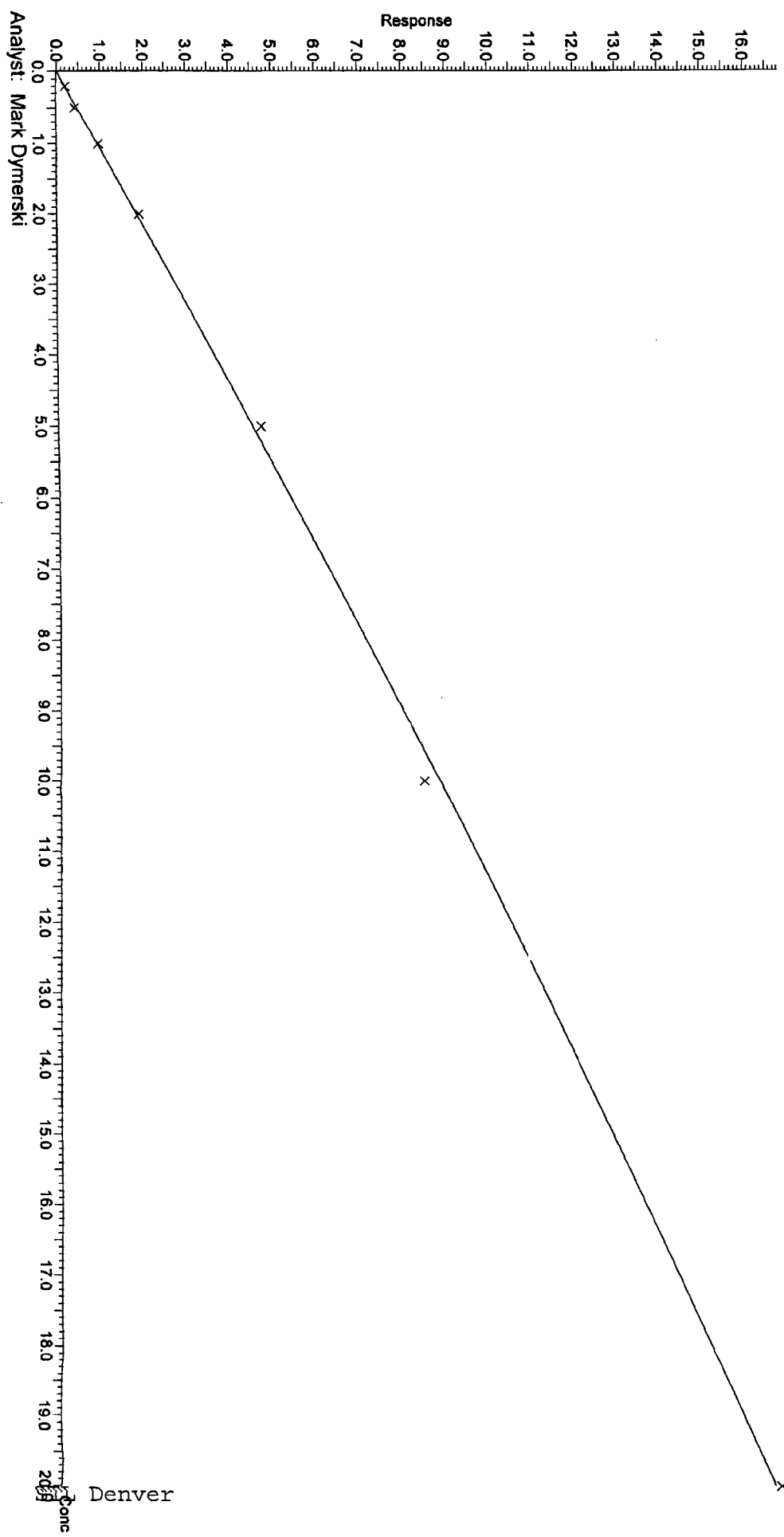
Compound name: PFOA

Coefficient of Determination: $R^2 = 0.998734$

Calibration curve: $-0.00519466 * x^2 + 0.937722 * x + 0.00484394$

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Quantity Calibration Report MassLynx 4.1

PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

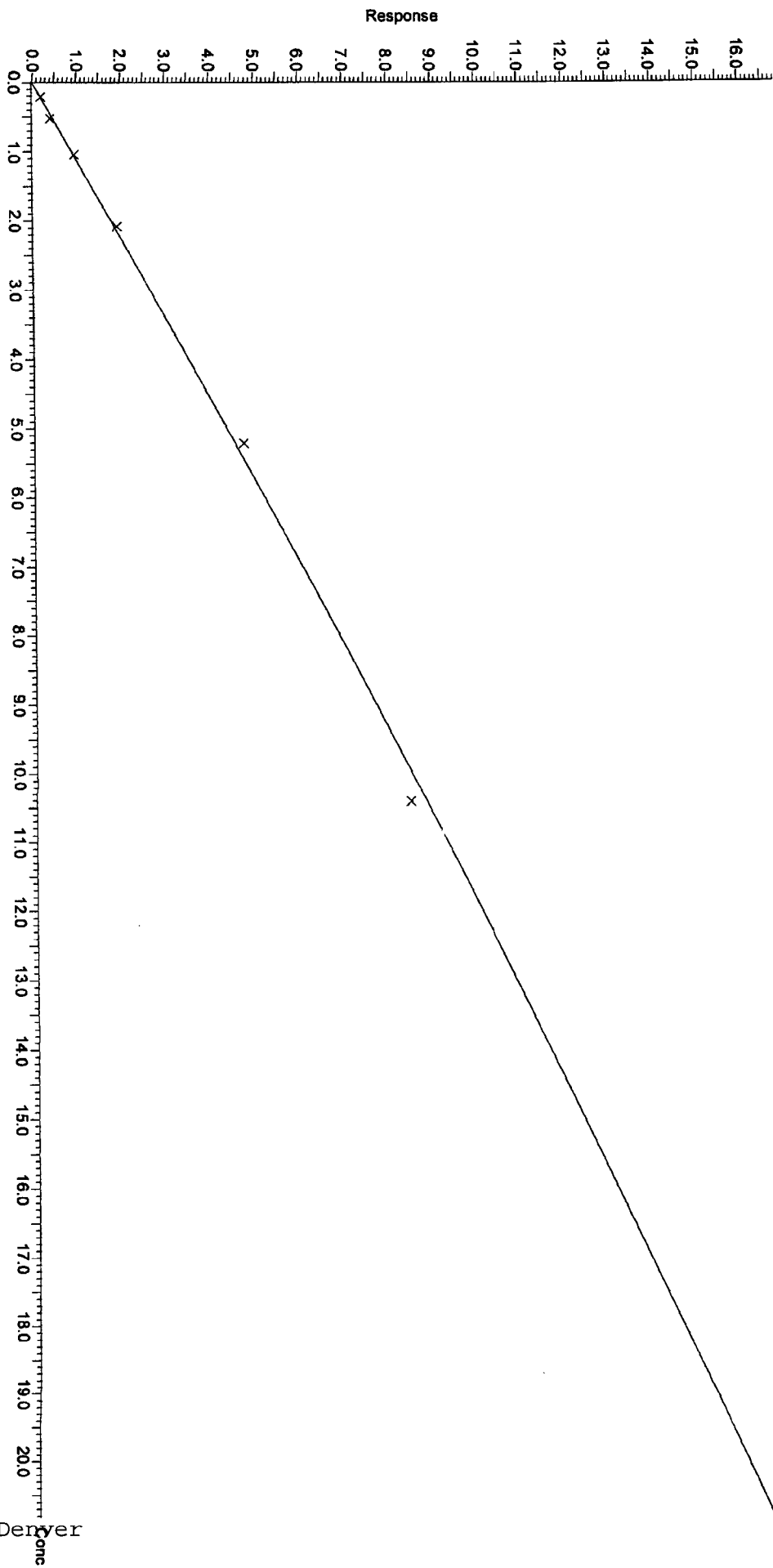
Compound name: APFO

Coefficient of Determination: $R^2 = 0.998736$

Calibration curve: $-0.00479134 \cdot x^2 + 0.900692 \cdot x + 0.00509623$

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



STL Denver

Quantity Calibration Report MassLynx 4.1

PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37\d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

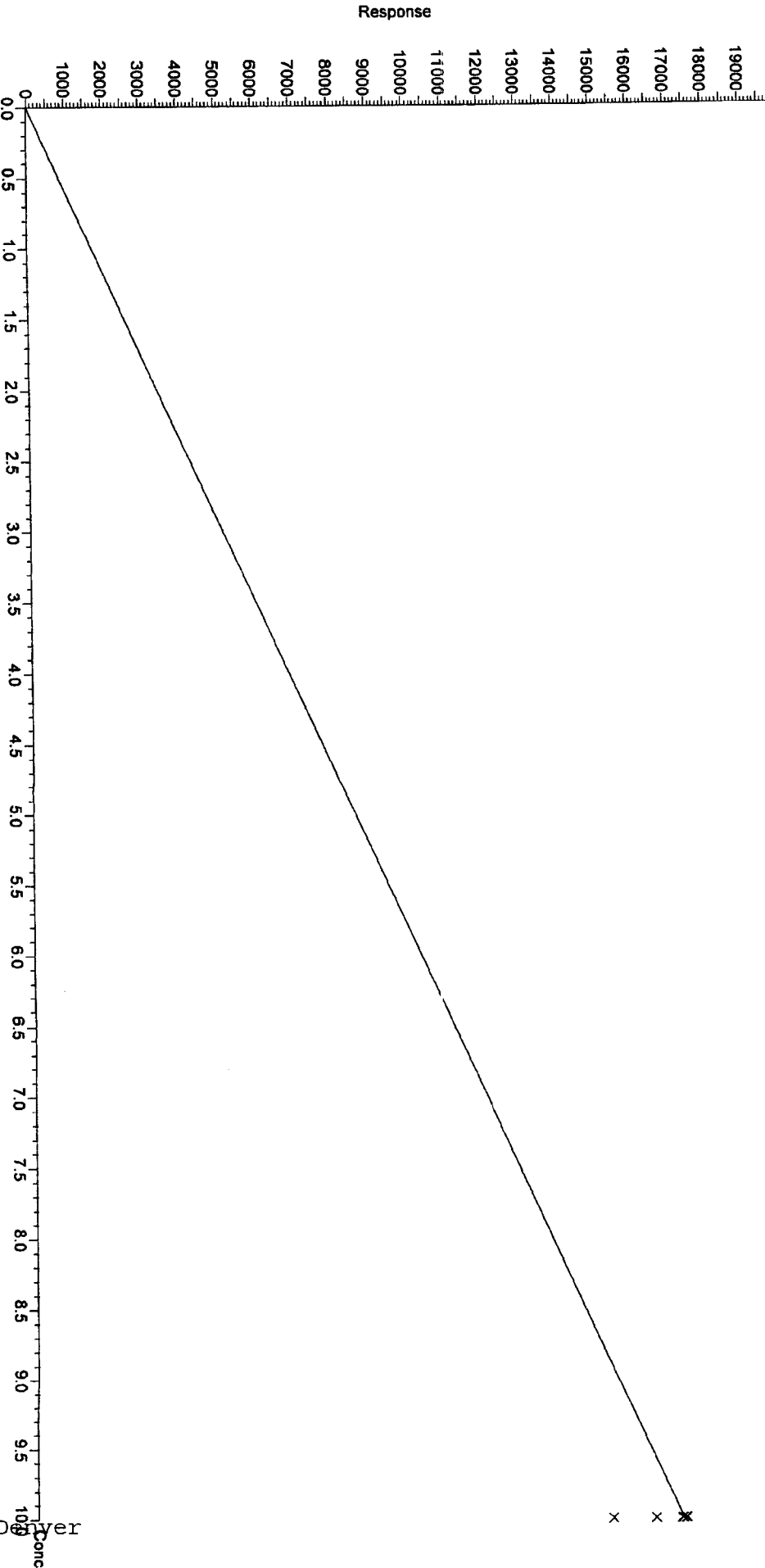
Compound name: PFOA 13C4

Response Factor: 1725.07

RRF SD: 132.825, % Relative SD: 7.69967

Response type: External Std, Area

Curve type: RF



STL Dwyer

Analyst: Mark Dymerski

Quantify Calibration Report MassLynx 4.1

PFOA Analysis

Dataset: C:\MassLynx\PFOA\PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

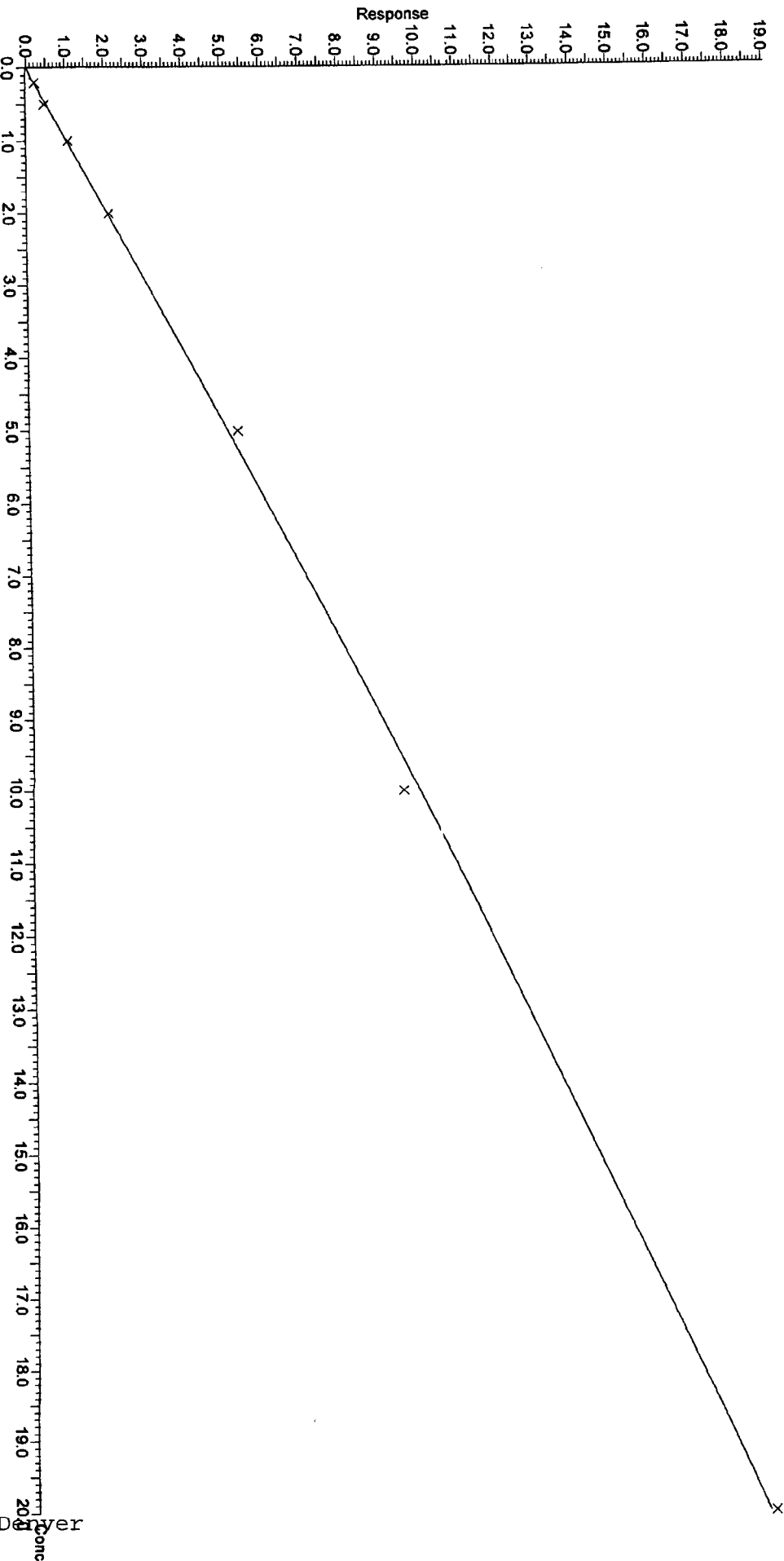
Compound name: PFOs

Coefficient of Determination: $R^2 = 0.998746$

Calibration curve: $-0.005757 * x^2 + 1.05667 * x + 0.00530869$

Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



STL Diver

Quantity Calibration Report MassLynx 4.1

PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

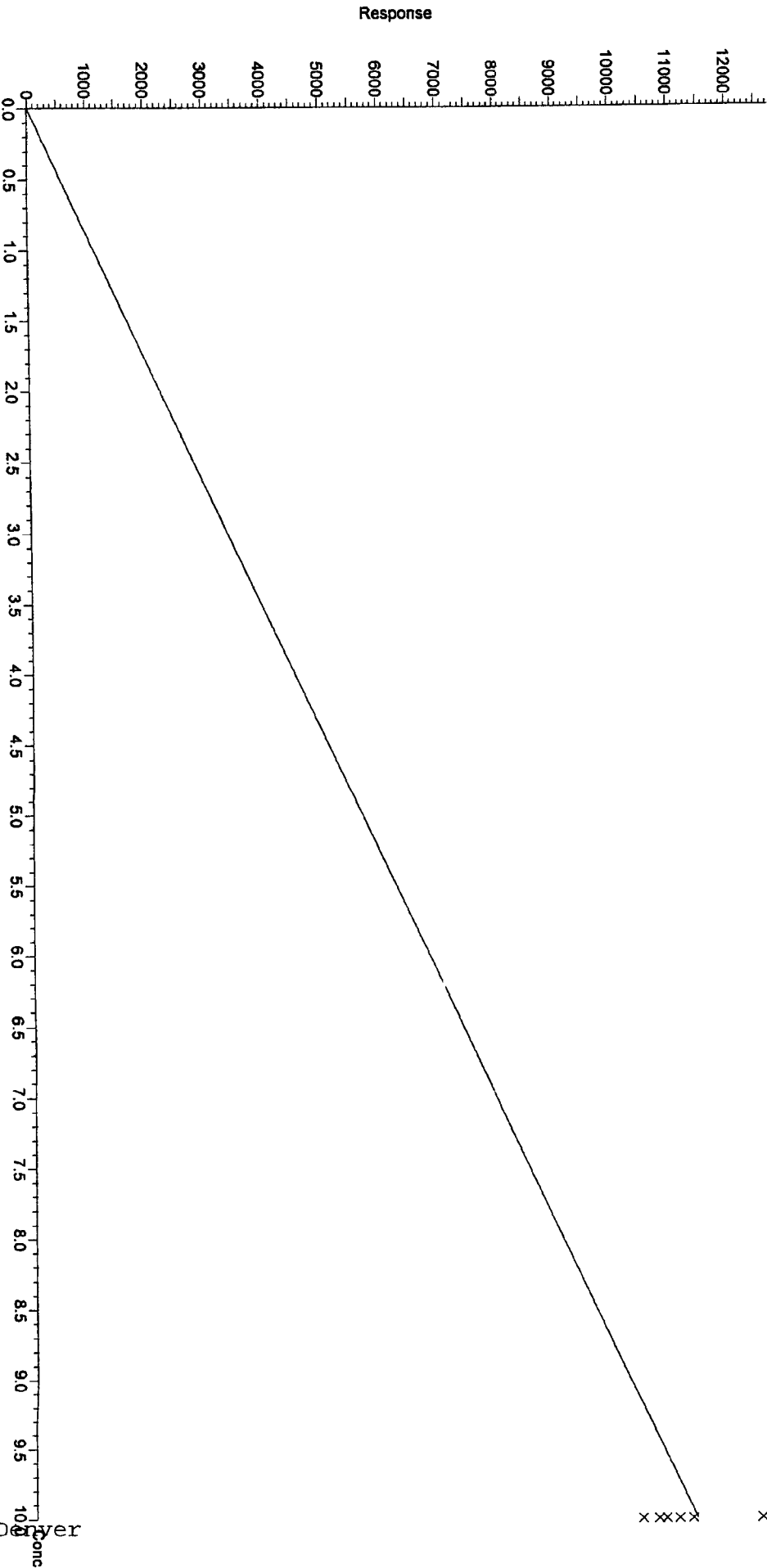
Compound name: PFOS 13C4

Response Factor: 1137.47

RRF SD: 89.2906, % Relative SD: 7.8499

Response type: External Std, Area

Curve type: RF



STL Dwyer

PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

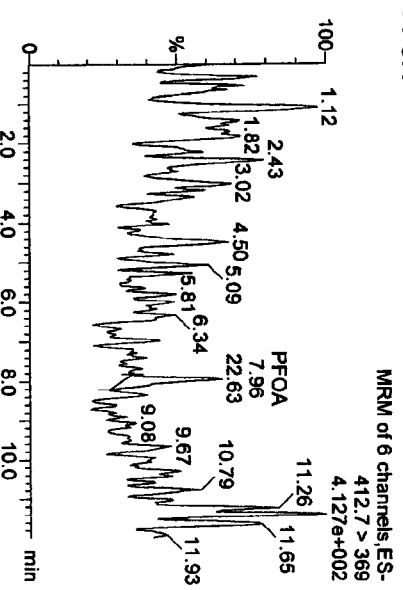
Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

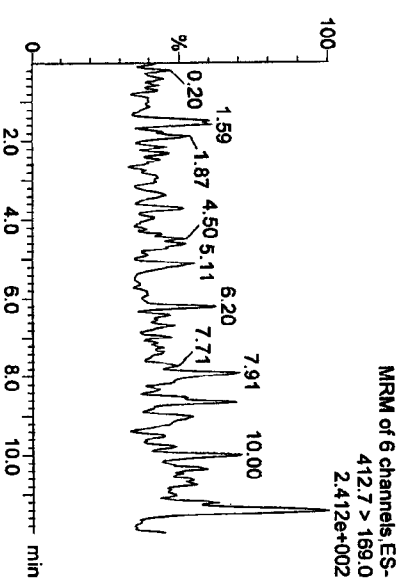
Method: C:\MassLynx\PFOA.PRO\MethDB\p37d25.mdb 26 Apr 2007 07:49:52
 Calibration: C:\MassLynx\Picric Acid.PRO\CurveDB\p37d25.cdb 27 Apr 2007 10:20:34

Name: p37d2501, Date: 25-Apr-2007, Time: 17:10:00, ID: 923.79.1, Description: Blank

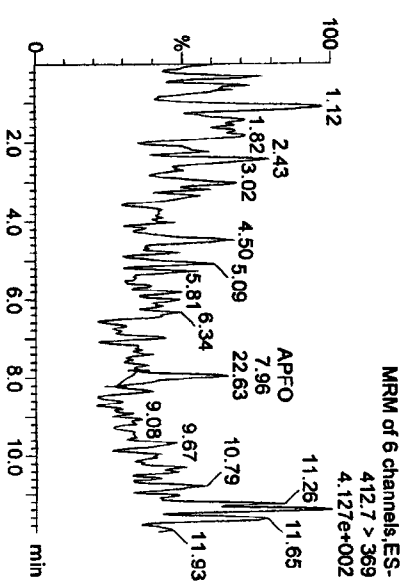
PFOA



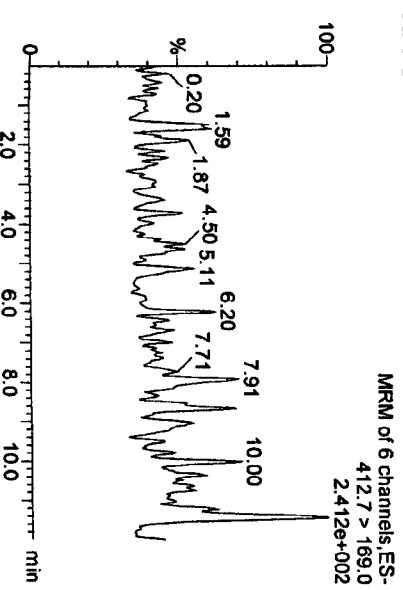
PFOA



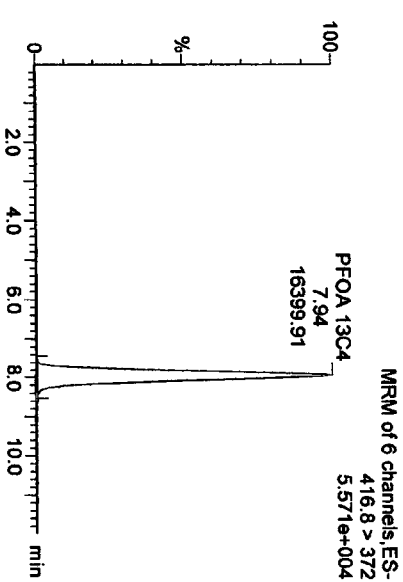
APFO



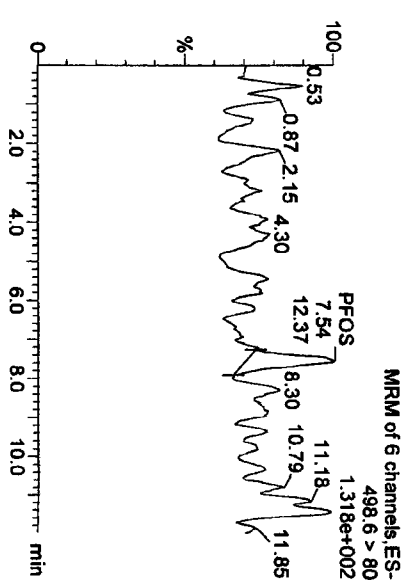
APFO



PFOA 13C4



PFOs



PFOA Analysis

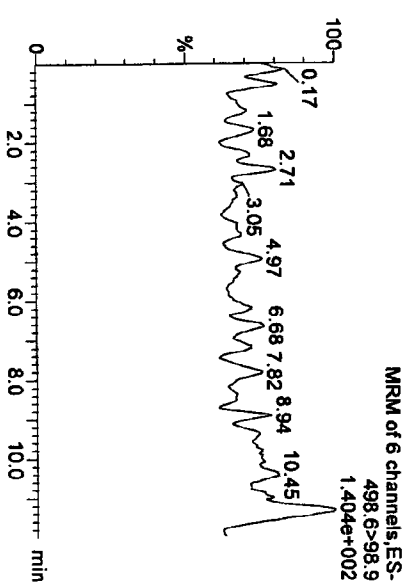
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

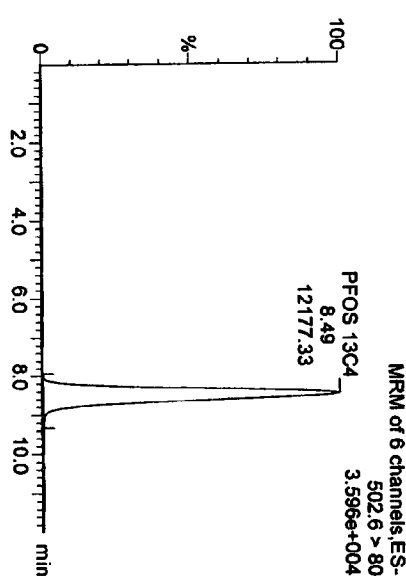
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2501, Date: 25-Apr-2007, Time: 17:10:00, ID: 923.79.1, Description: Blank

PFOA



PFOA 13C4



Peak	Time (min)	Area	Height	Ratio	Mass	Height	Ratio	Mass	Height	Ratio	Mass
1 PFOA	7.96	22.626	bb	16399.908	3	0.014	0.010	0.010			
2 APFO	7.96	22.626	bb	16399.908	3	0.014	0.010	0.010			
3 PFOA 13C4	7.94	16399.908	bb		0	16399.908	9.507	95.1			
4 PFOA	7.54	12.368	bb	12177.335	5	0.010	0.005				
5 PFOA 13C4	8.49	12177.335	bb		0	12177.335	10.706	107.1			

PFOA Analysis

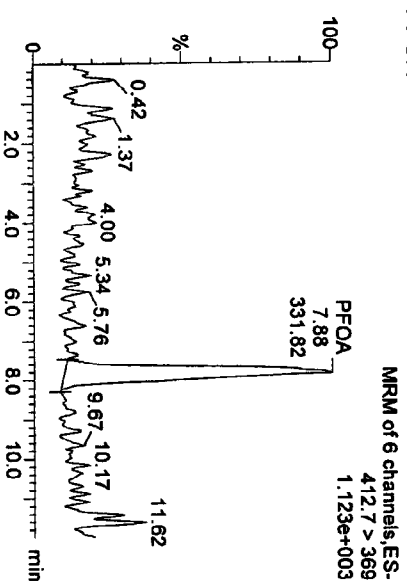
Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

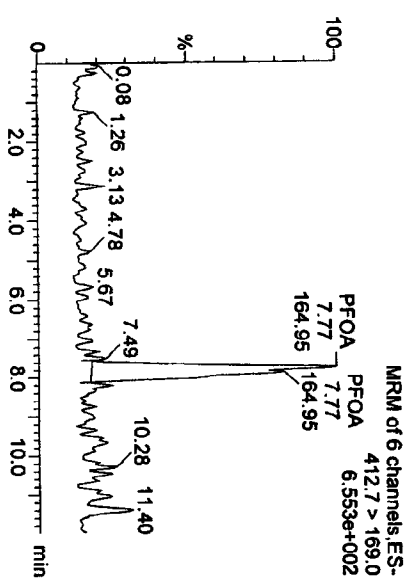
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2502, Date: 25-Apr-2007, Time: 17:22:52, ID: 923.79.2, Description: 0.2 µg/L

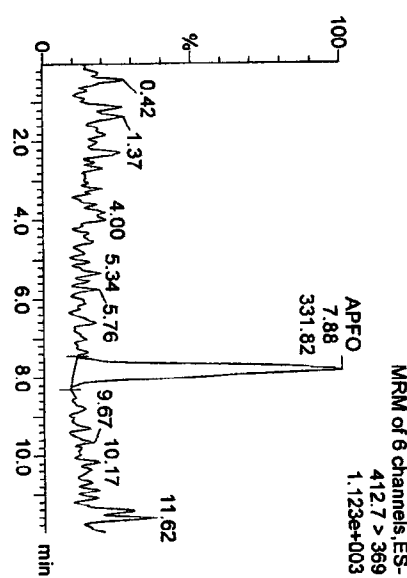
PFOA



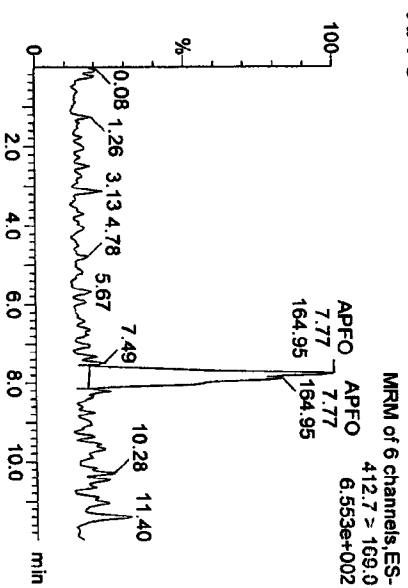
PFOA



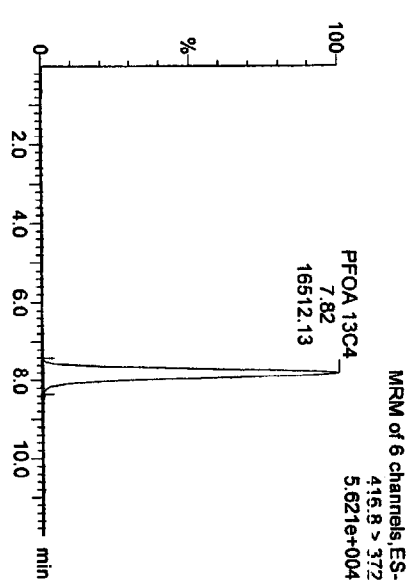
APFO



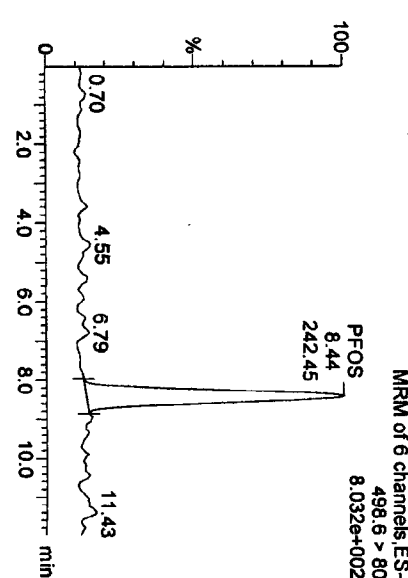
APFO



PFOA 13C4



PFOs



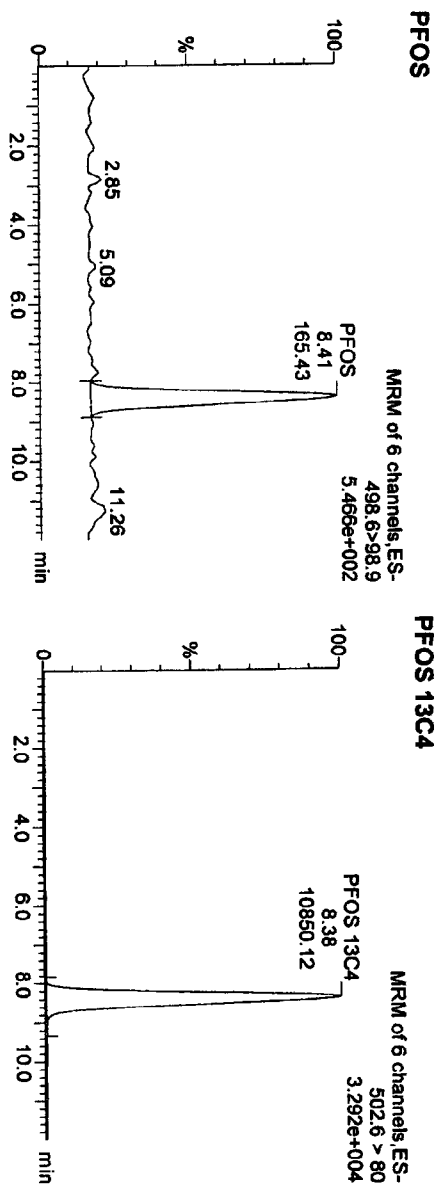
MassLynx 4.1

C:\MassLynx\PF0A.PRO\pf37d252.qld

Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2502, Date: 25-Apr-2007, Time: 17:22:52, ID: 923.79.2, Description: 0.2 µg/L



Name	P	R	Ave	Std	S.E.	S	R.S.D.	Cov	Stoc	Adm	M	D
1 PFOA	7.88	331.817	bb	16512.135	3	0.201	0.209	104.7				
2 APFO	7.88	331.817	bb	16512.135	3	0.201	0.218	104.7				
3 PFOA 13C4	7.82	16512.135	bb		0	16512.135	9.572	96.7				
4 PFOS	8.44	242.454	bb	10850.116	5	0.223	0.207	103.3				
5 PFOS 13C4	8.38	10850.116	bb		0	10850.116	9.539	95.4				

PFOA Analysis

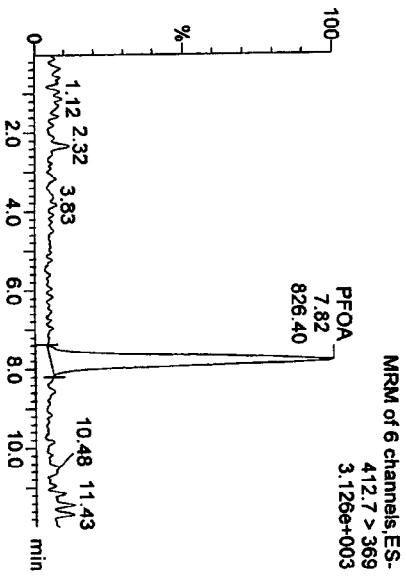
Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

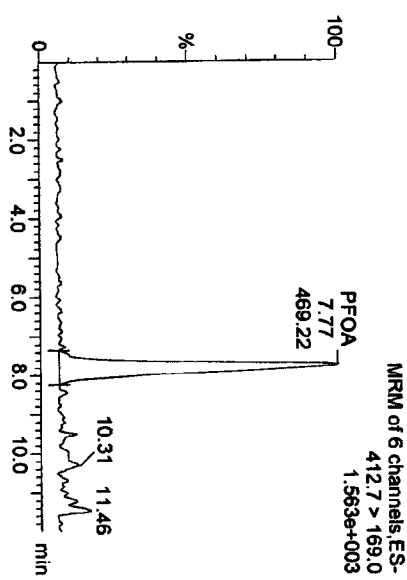
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2503, Date: 25-Apr-2007, Time: 17:35:51, ID: 923.79.3, Description: 0.5 µg/L

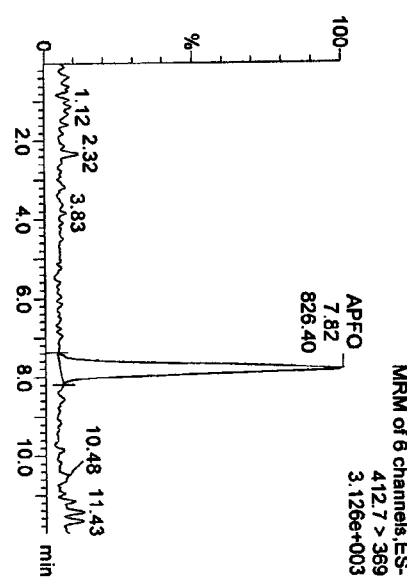
PFOA



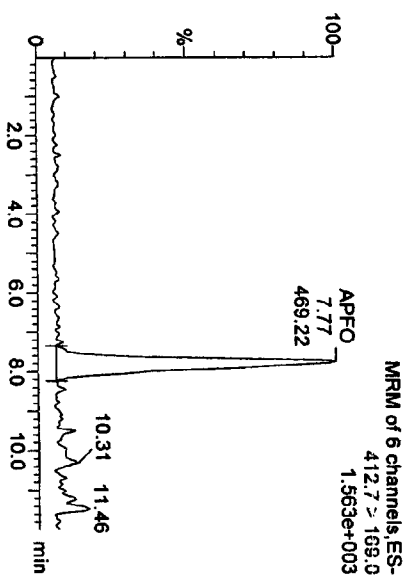
PFOA



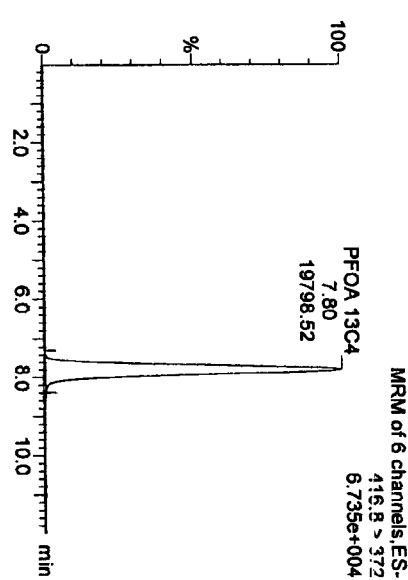
APFO



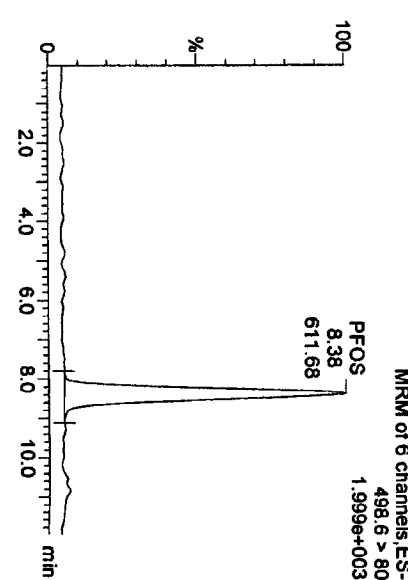
APFO



PFOA 13C4



PFOs



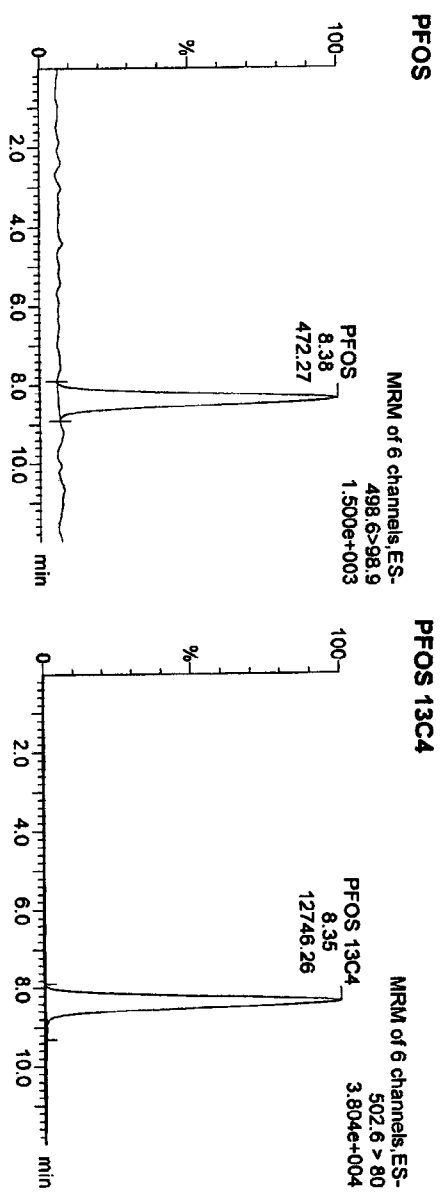
MassLynx 4.1

C:\MassLynx\1\FOA.PRO\p137d252.qld

Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2503, **Date:** 25-Apr-2007, **Time:** 17:35:51, **ID:** 923.79.3, **Description:** 0.5 µg/L



Name	Ref.	Area	Height	S Area	S ₀	Conto	Ecc	Equino	Time	Date
1 PFOA	7.62	826.403	bb	19798.521	3	0.417	0.441	88.2		
2 APFO	7.82	826.403	bb	19798.521	3	0.417	0.459	88.2		
3 PFOA 13C4	7.80	19798.521	bb		0	19798.521	11.477	114.8		
4 PFOS	8.38	611.677	bb	12746.258	5	0.480	0.450	90.0		
5 PFOS 13C4	8.35	12746.258	bb		0	12746.258	11.206	112.1		

PFOA Analysis

C:\MassLynx\PFOA.PRO\p37d252.qld

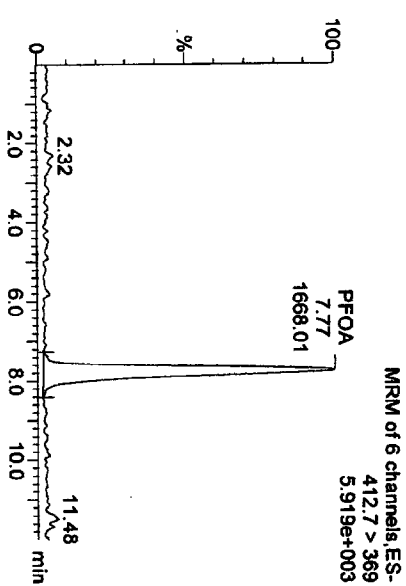
Dataset:

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

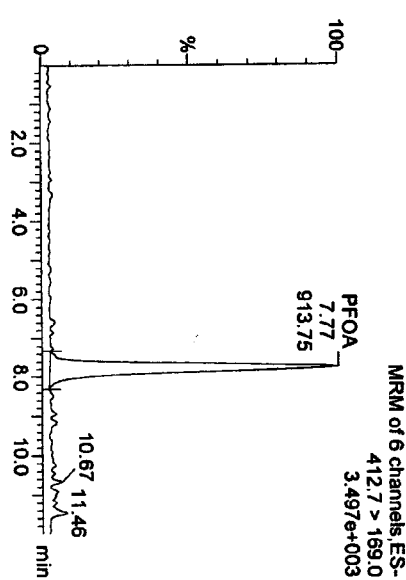
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2504, Date: 25-Apr-2007, Time: 17:48:49, ID: 923.79.4, Description: 1 µg/L

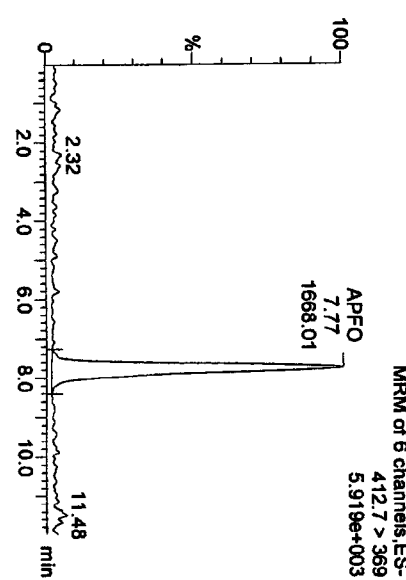
PFOA



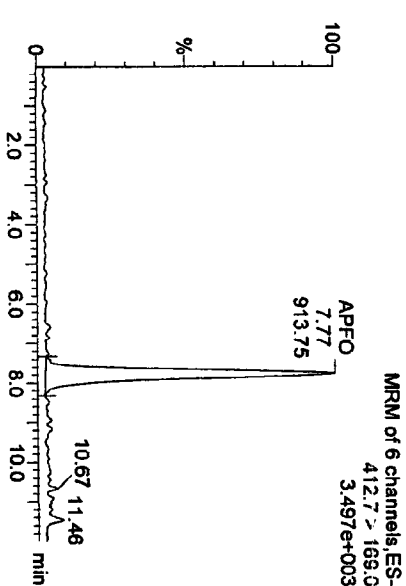
PFOA



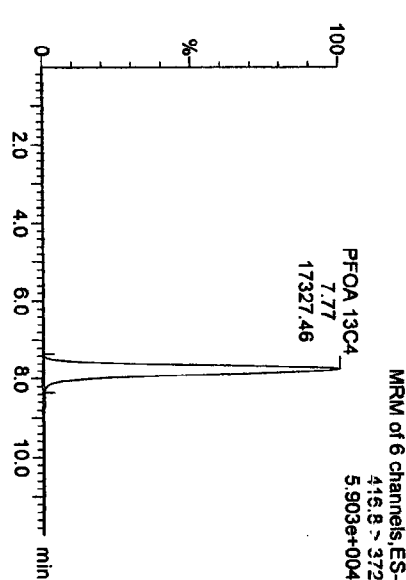
APFO



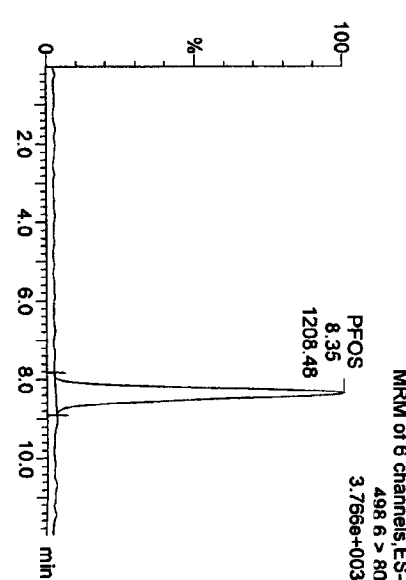
APFO



PFOA 13C4



PFOs



PFOA Analysis

C:\MassLynx\PFOA.PRO\p37d252.qld

Dataset: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

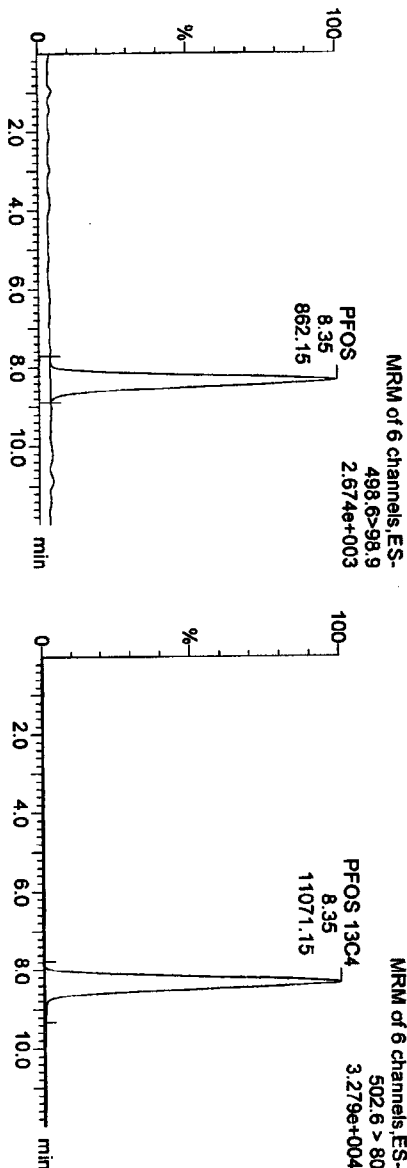
Last Altered: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Printed:

Name: p37d2504, Date: 25-Apr-2007, Time: 17:48:49, ID: 923.79.4, Description: 1 µg/L

PFOA

PFOA 13C4



Name	RT	Area	Height	IS-Abs	IS-Rel	Response	Conc	Recovery	100% of 100
1 PFOA	7.77	1668.012	bb	17327.461	3	0.963	1.027	102.7	
2 APFO	7.77	1668.012	bb	17327.461	3	0.963	1.069	102.7	
3 PFOA 13C4	7.77	17327.461	bb	17327.461	0	17327.461	10.044	100.4	
4 PFOA	8.35	1208.480	bb	11071.146	5	1.092	1.034	103.4	
5 PFOA 13C4	8.35	11071.146	bb	11071.146	0	11071.146	9.733	97.3	

PFOA Analysis

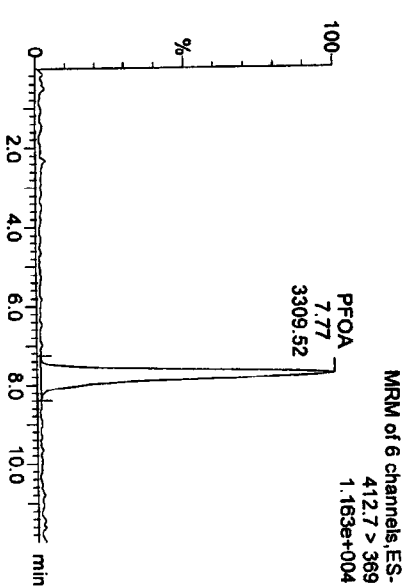
Dataset: C:\Masslynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

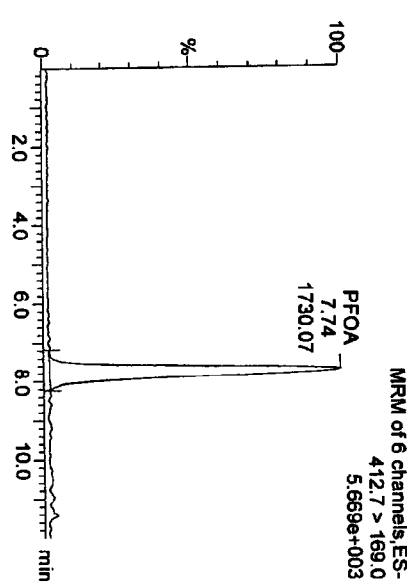
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2505, Date: 25-Apr-2007, Time: 18:01:46, ID: 923.79.5, Description: 2 µg/L

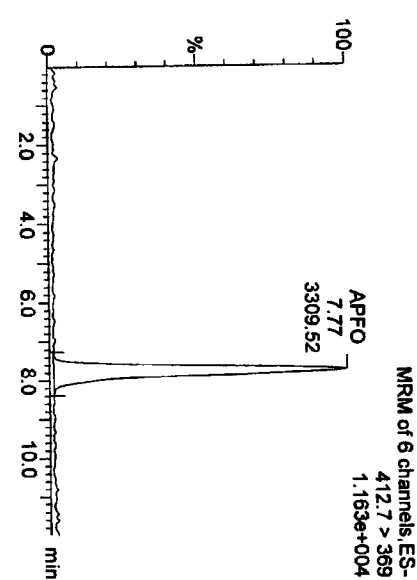
PFOA



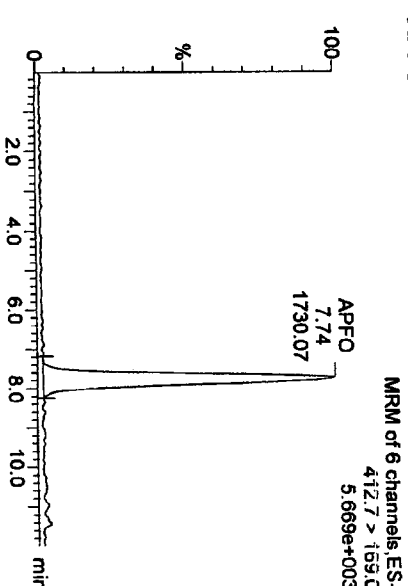
PFOA



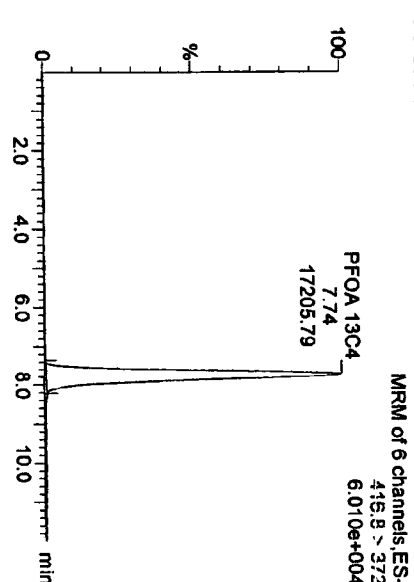
APFO



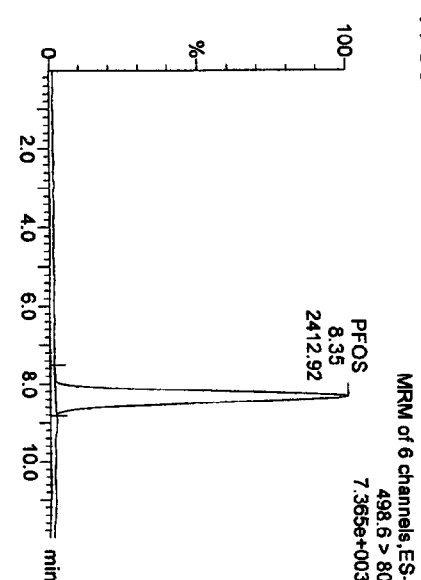
APFO



PFOA 13C4



PFOs



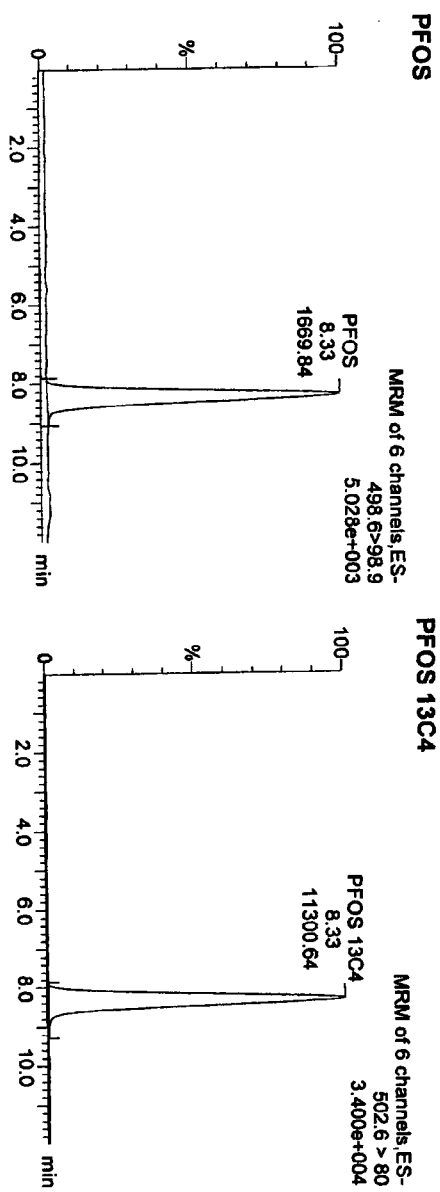
PFOA Analysis

Dataset: C:\MassLynx\PFQA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2505, **Date:** 25-Apr-2007, **Time:** 18:01:46, **ID:** 923.79.5, **Description:** 2 µg/L



Name	Age	Spd	IS Acc	R Spd	Cat	Mod Comment	Avg	CLT
1 PFOA	7.77	3309.523	bb	17205.789	3	1.923	2.070	103.5
2 APFO	7.77	3309.523	bb	17205.789	3	1.923	2.165	103.5
3 PFOA 13C4	7.74	17205.789	bb	17205.789	0	17205.789	9.974	99.7
4 PFOS	8.35	2412.917	bb	11300.640	5	2.135	2.038	101.9
5 PFOS 13C4	8.33	11300.640	bb	11300.640	0	11300.640	9.935	99.3

PFOA Analysis

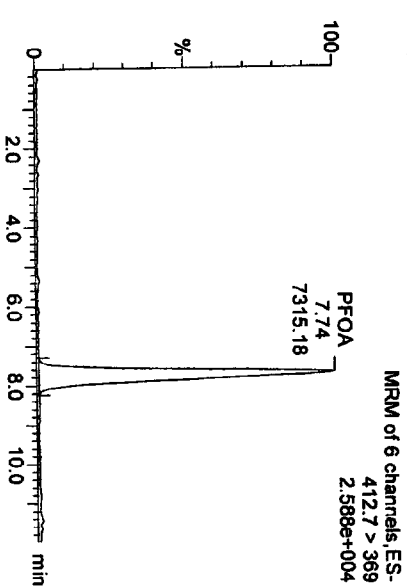
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

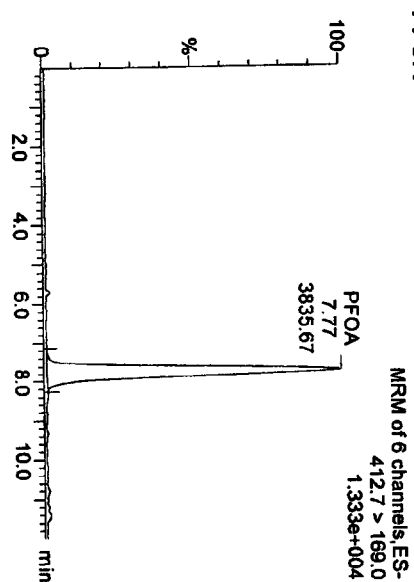
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2506, Date: 25-Apr-2007, Time: 18:14:43, ID: 923.79.6, Description: 5 µg/L

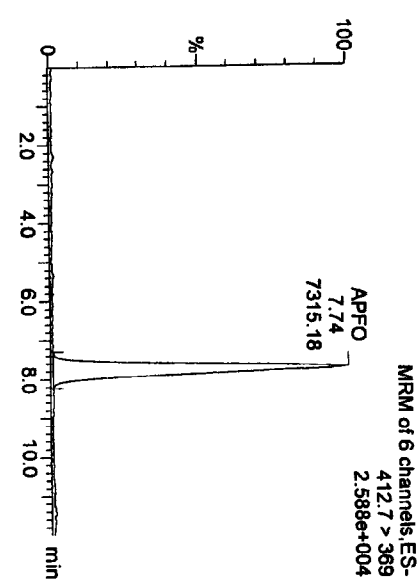
PFOA



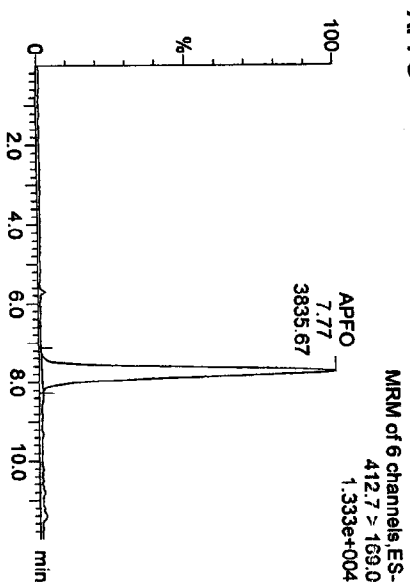
PFOA



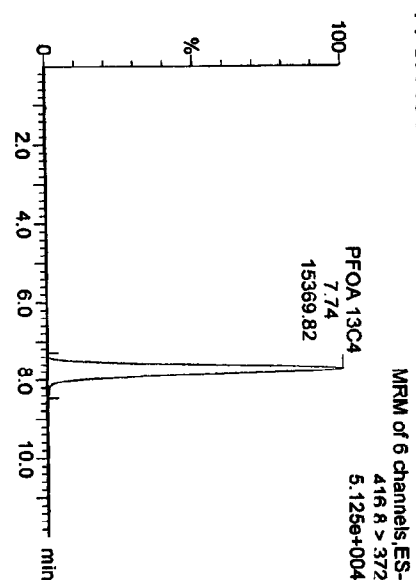
APFO



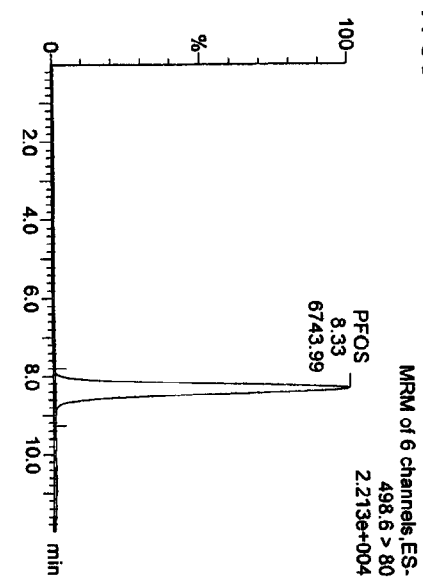
APFO



PFOA 13C4



PFOs



PFOA Analysis

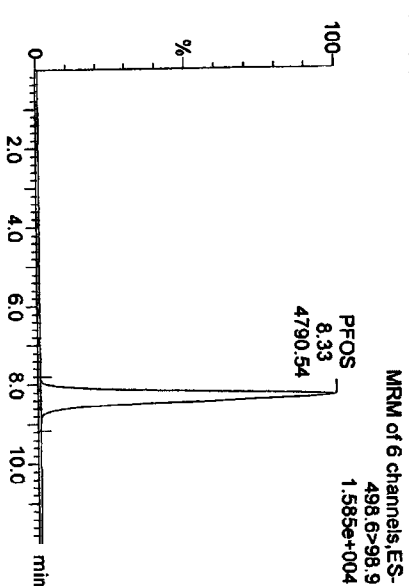
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

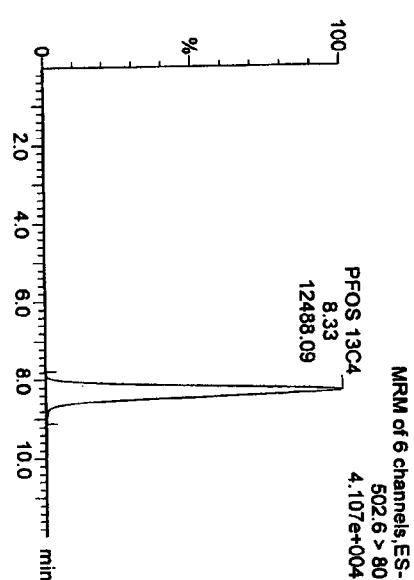
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2506, Date: 25-Apr-2007, Time: 18:14:43, ID: 923.79.6, Description: 5 µg/L

PFOA



PFOA 13C4

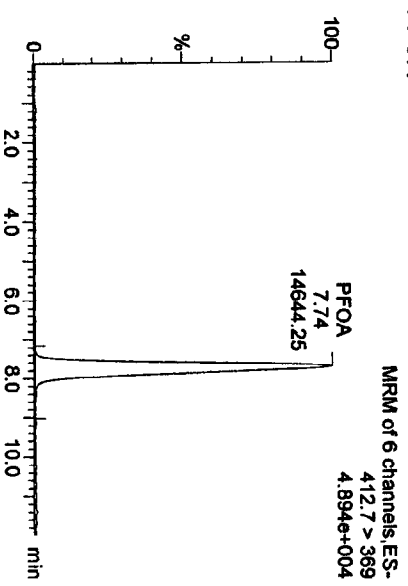


Peak #	Retention Time (min)	Area	Height	Signal	Integration	Integration Error	Integration %
1	7.74	7315.175	bb	15369.824	3	4.759	5.221
2	7.74	7315.175	bb	15369.824	3	4.759	5.436
3	7.74	15369.824	bb	15369.824	0	15369.824	8.910
4	8.33	6743.988	bb	12488.086	5	5.400	5.261
5	8.33	12488.086	bb	12488.086	0	12488.086	10.979

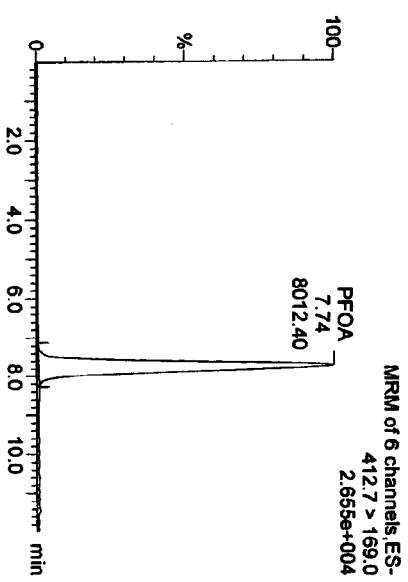
PFOA Analysis
 Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2507, Date: 25-Apr-2007, Time: 18:27:39, ID: 923.79.7, Description: 10 µg/L

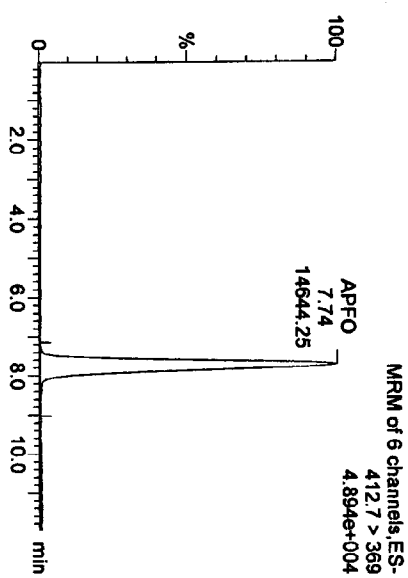
PFOA



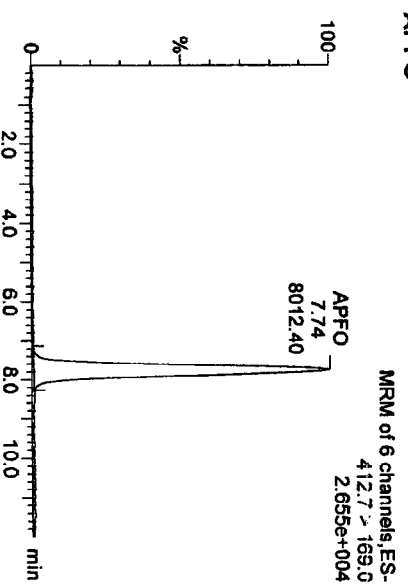
PFOA



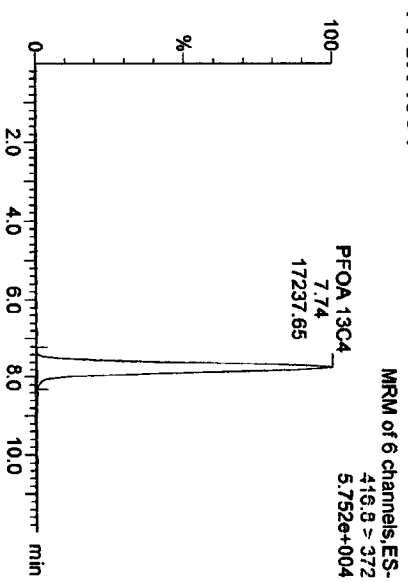
APFO



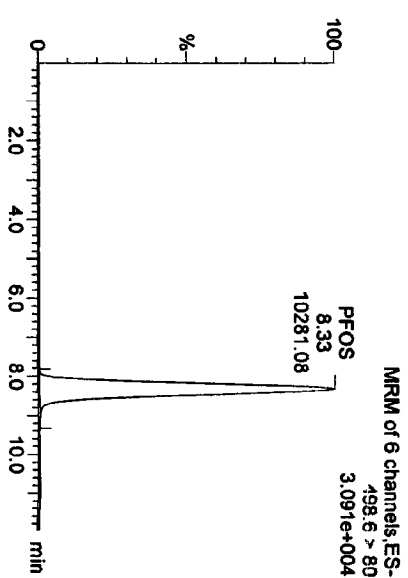
APFO



PFOA 13C4



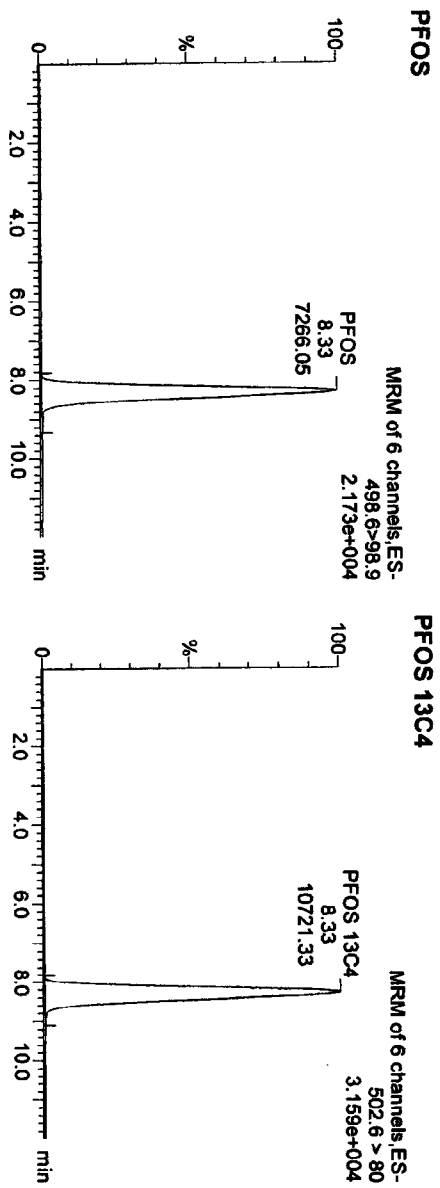
PFOs



Quantity Sample Report MassLynx 4.1

PFOA Analysis
 Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2507, Date: 25-Apr-2007, Time: 18:27:39, ID: 923.79.7, Description: 10 µg/L



Name	RT	Area	Height	IS#	Response	IS#	Response	Mod	Date
1 PFOA	7.74	14644.253	bb	3	8.496	3	9.561	95.6	
2 APFO	7.74	14644.253	bb	3	8.496	3	9.954	95.6	
3 PFOA 13C4	7.74	17237.646	bb	0	17237.646	0	9.992	99.9	
4 PFOA	8.33	10281.079	bb	5	9.589	5	9.551	95.5	
5 PFOA 13C4	8.33	10721.331	bb	0	10721.331	0	9.426	94.3	

PFOA Analysis

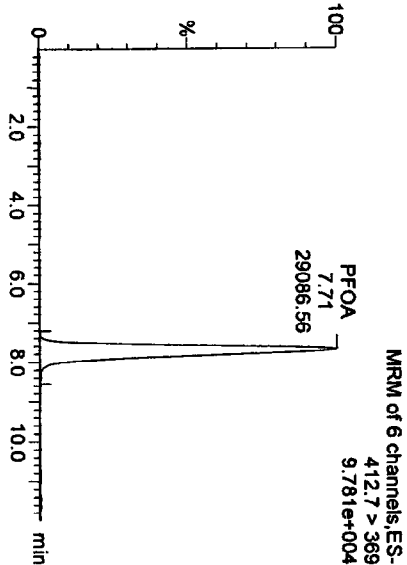
Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

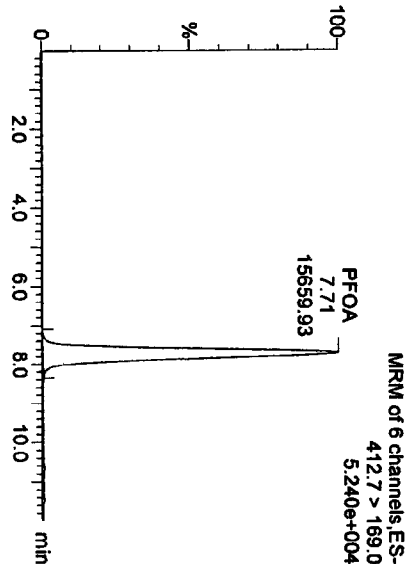
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2508, Date: 25-Apr-2007, Time: 18:40:36, ID: 923.79.8, Description: 20 µg/L

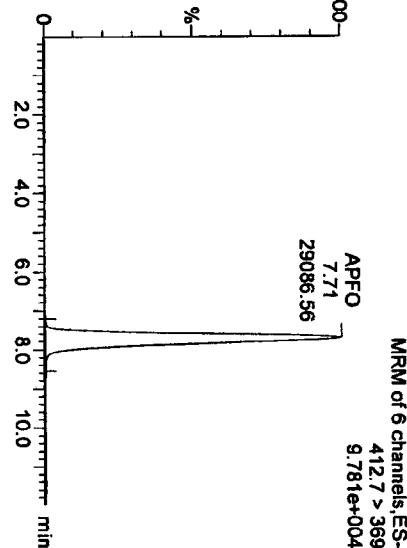
PFOA



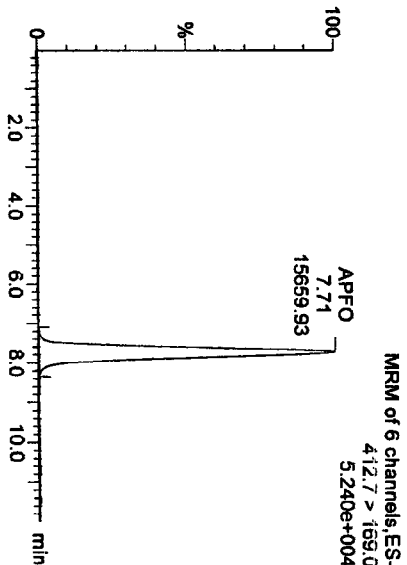
PFOA



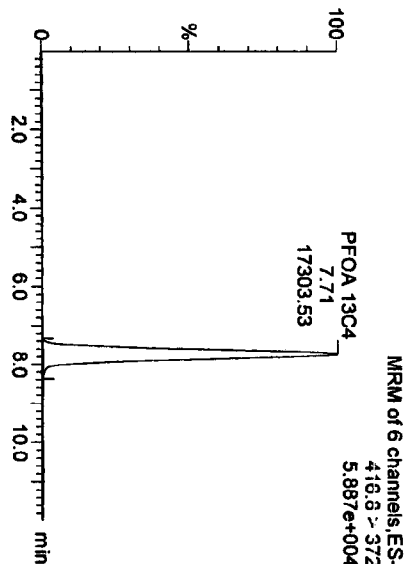
APFO



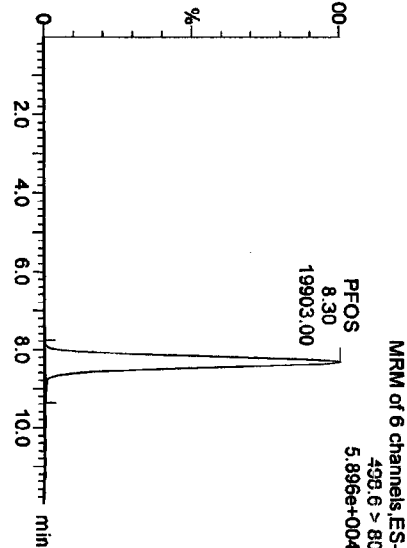
APFO



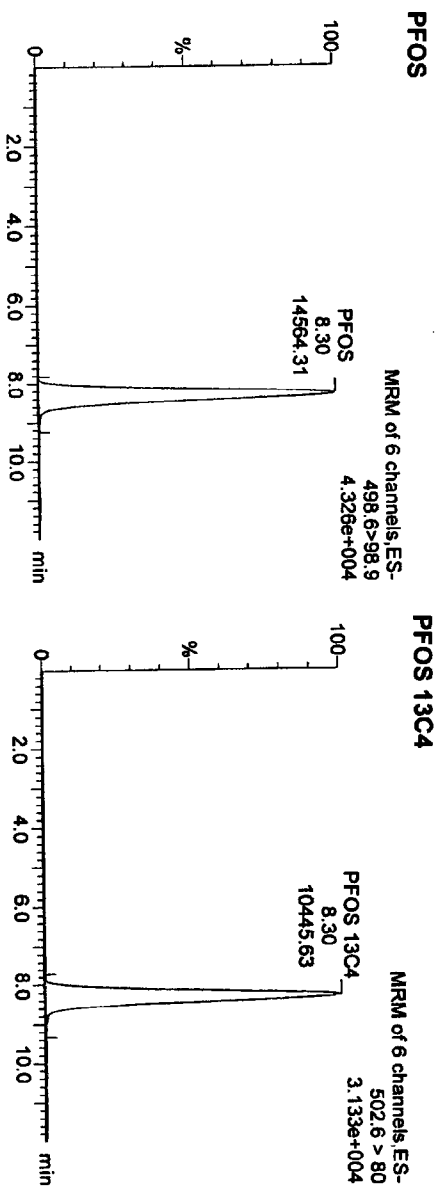
PFOA 13C4



PFOs



Name: pf37d2508, Date: 25-Apr-2007, Time: 18:40:36, ID: 923.79.8, Description: 20 µg/L



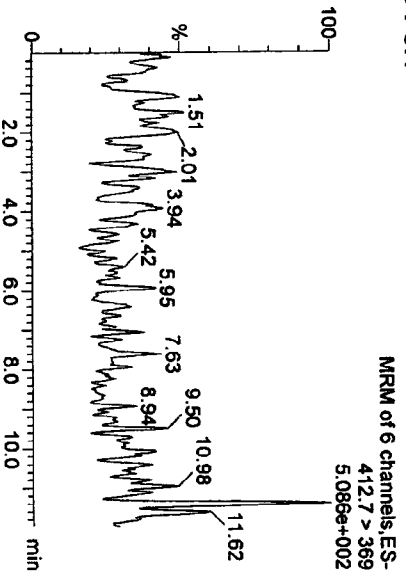
Name	Area	Height	Ratio	Count	%	Count	%
1 PFOA	7.71	29086.564	bb	17303.525	3	16.810	20.176
2 APFO	7.71	29086.564	bb	17303.525	3	16.810	21.004
3 PFOA 13C4	7.71	17303.525	bb	17303.525	0	17303.525	10.031
4 PFOS	8.30	19902.998	bb	10445.627	5	19.054	20.175
5 PFOS 13C4	8.30	10445.627	bb	10445.627	0	10445.627	9.183

PFOA Analysis

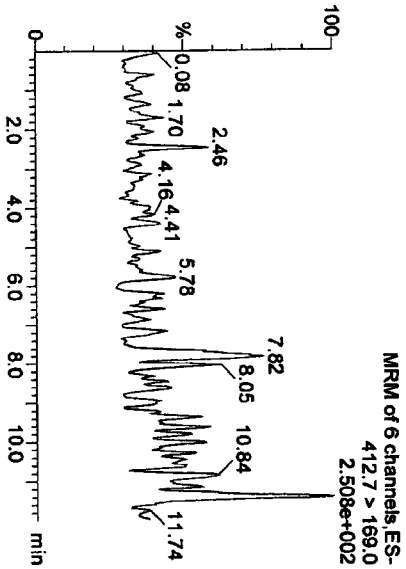
Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2509, Date: 25-Apr-2007, Time: 18:53:34, ID: 923.79.1, Description: Blank

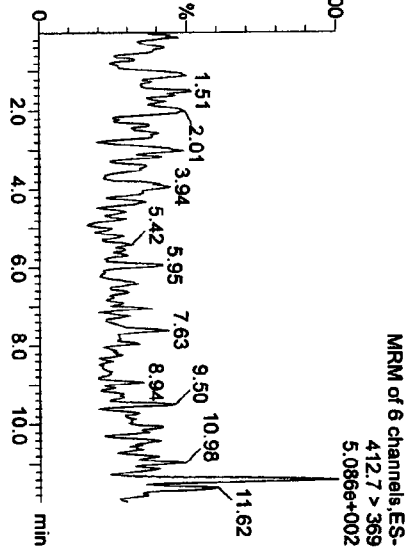
PFOA



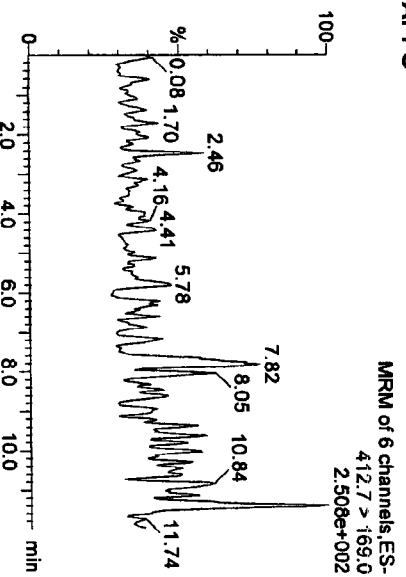
PFOA



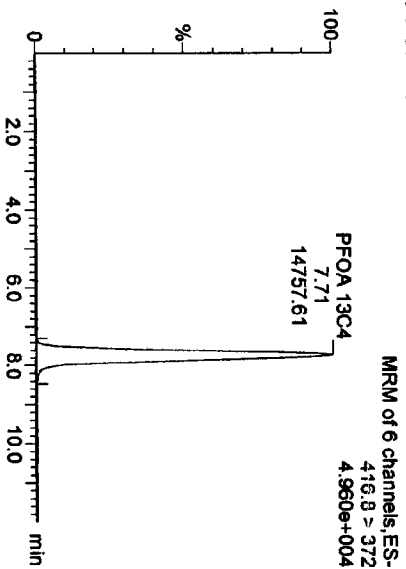
PFOS



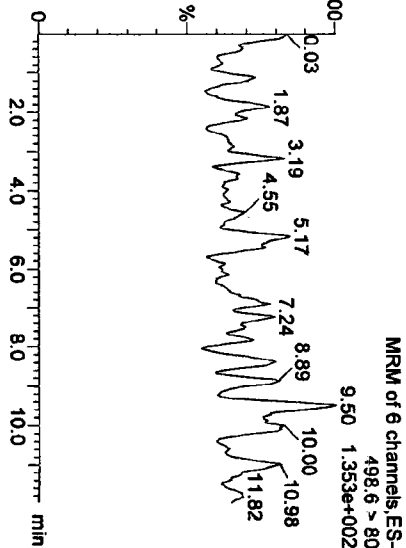
APFO



PFOA 13C4



PFOS

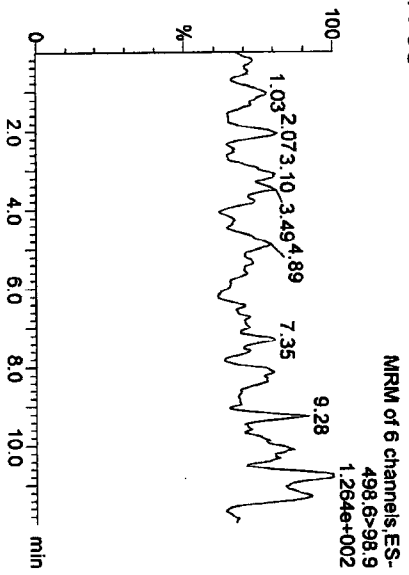


Quantity Sample Report MassLynx 4.1

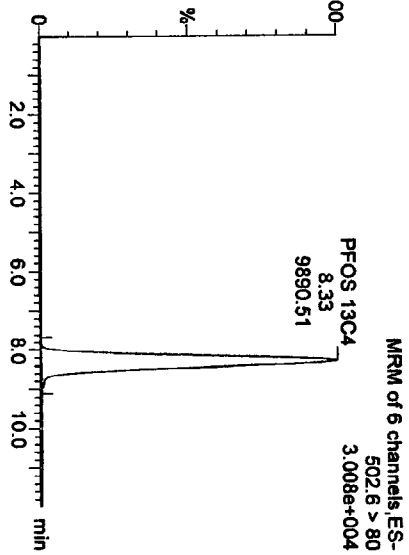
PFOA Analysis
 Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2509, Date: 25-Apr-2007, Time: 18:53:34, ID: 923.79.1, Description: Blank

PFOs



PFOs 13C4



NAME	RT	Area	Height	IS	IS#	Retention	Conf	Mod	ModDate	Conf
1 PFOA						14757.614	3			
2 APFO						14757.614	3			
3 PFOA 13C4	7.71	14757.614	bb			14757.614	0	8.555		85.5
4 PFOs						9890.509	5			
5 PFOs 13C4	8.33	9890.509	bb			9890.509	0	8.695		87.0

PFOA Analysis

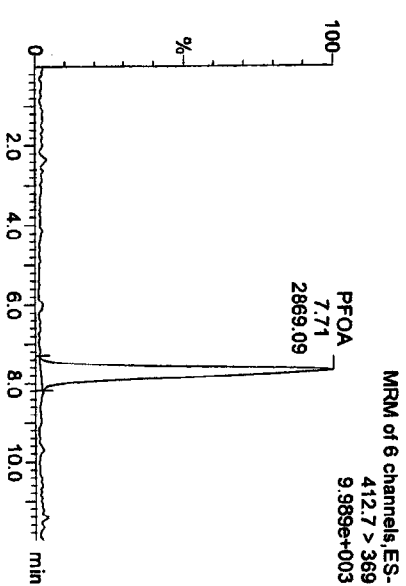
Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

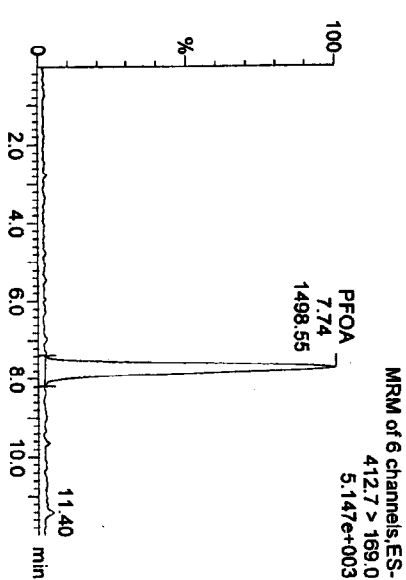
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2510, Date: 25-Apr-2007, Time: 19:06:31, ID: 923.79.10, Description: 2 µg/L ICV

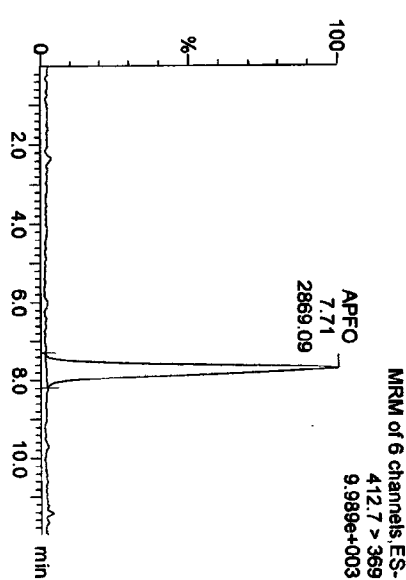
PFOA



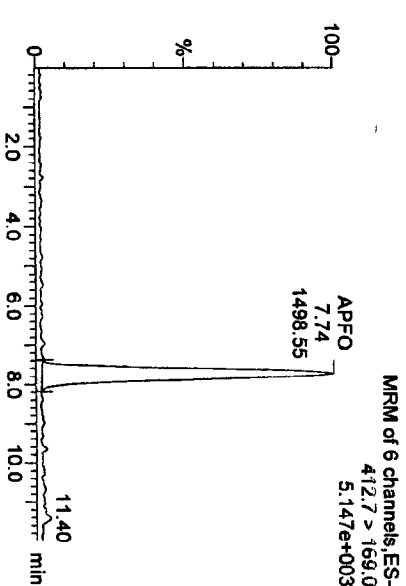
PFOA



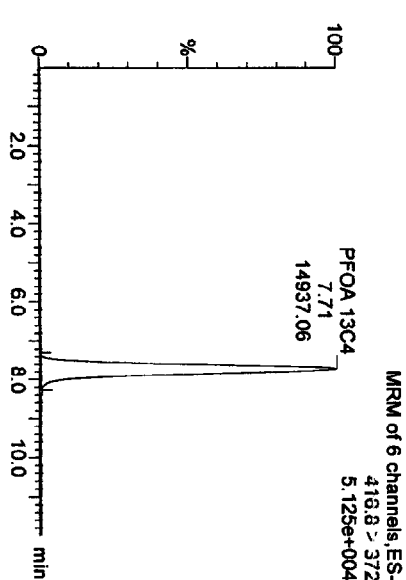
APFO



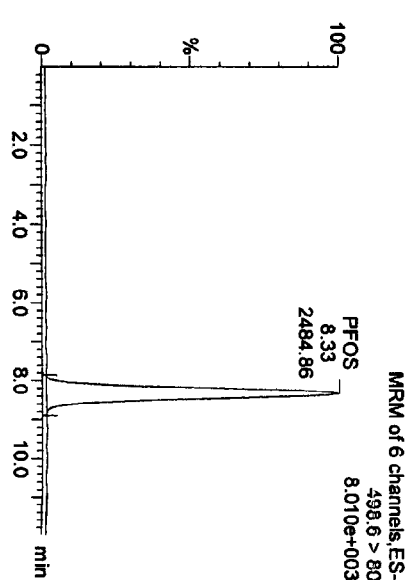
APFO



PFOA 13C4



PFOs



PFOA Analysis

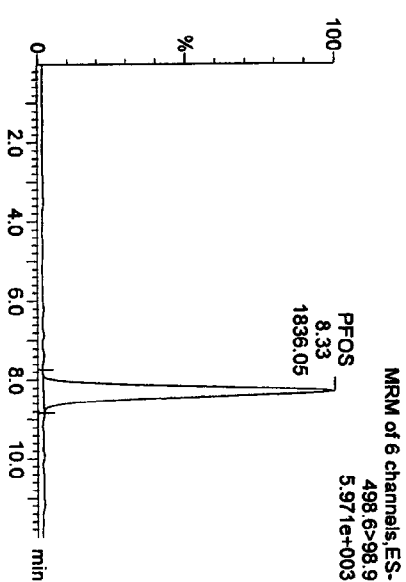
Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

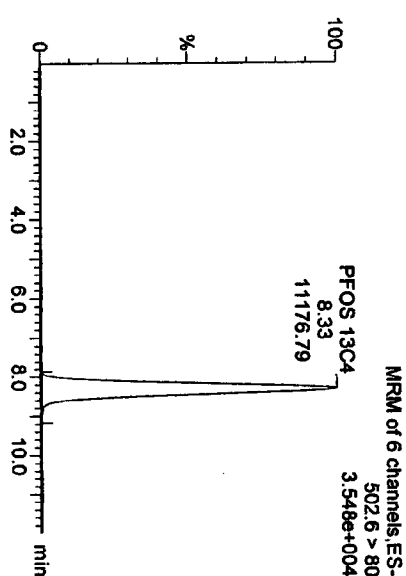
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2510, Date: 25-Apr-2007, Time: 19:06:31, ID: 923.79.10, Description: 2 µg/L ICV

PFOs



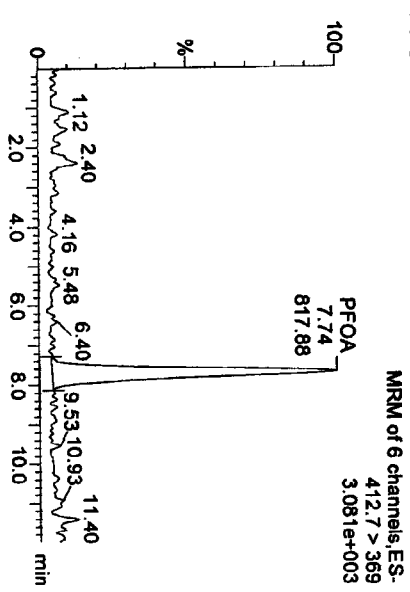
PFOs 13C4



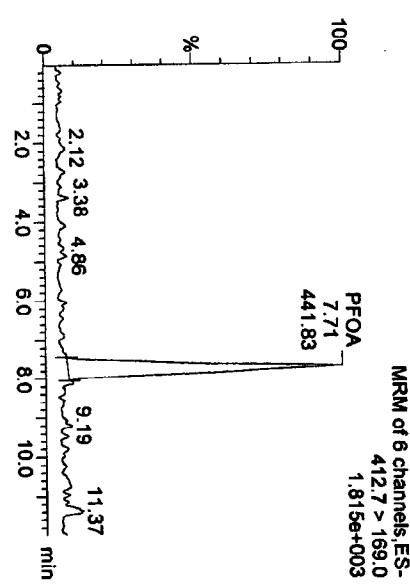
Name	RT	Area	Height	IS	CS	MS	MS	MS	MS
1 PFOA	7.71	2869.092	bb	14937.064	3	1.921	2.067	103.3	
2 APFO	7.71	2869.092	bb	14937.064	3	1.921	2.152	103.3	
3 PFOA 13C4	7.71	14937.064	bb	14937.064	0	14937.064	8.659	86.6	
4 PFOs	8.33	2484.865	bb	11176.792	5	2.223	2.123	106.1	
5 PFOs 13C4	8.33	11176.792	bb	11176.792	0	11176.792	9.826	98.3	

Name: pf37d2511, Date: 25-Apr-2007, Time: 19:19:27, ID: 923.79.3, Description: 0.5 µg/L RLV

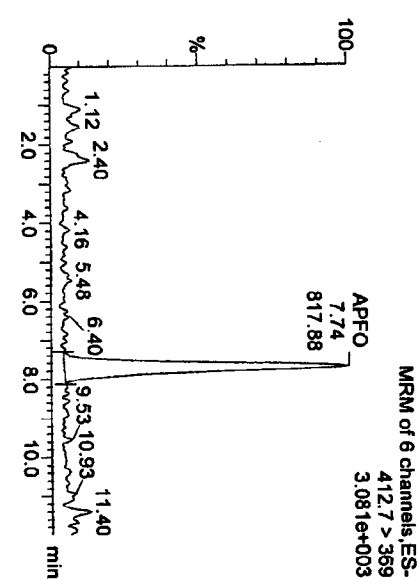
PFOA



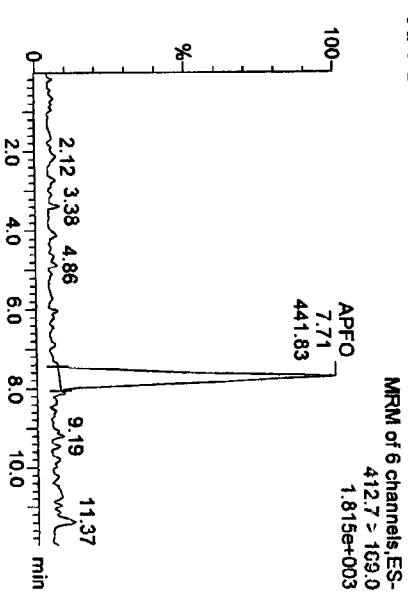
PFOA



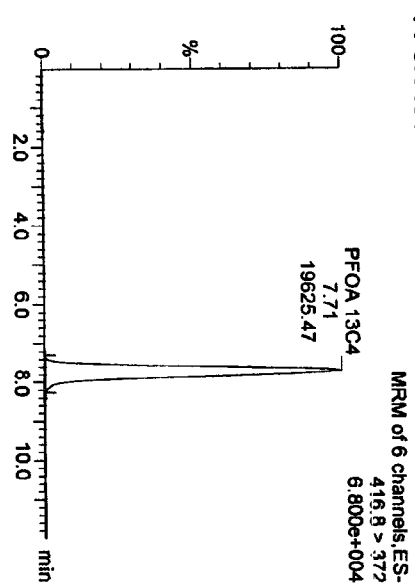
APFO



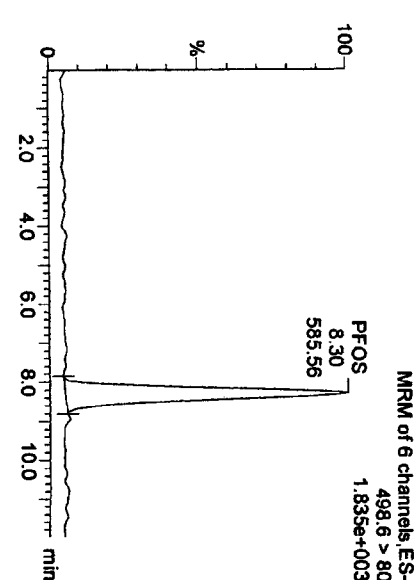
APFO



PFOA 13C4



PFOs



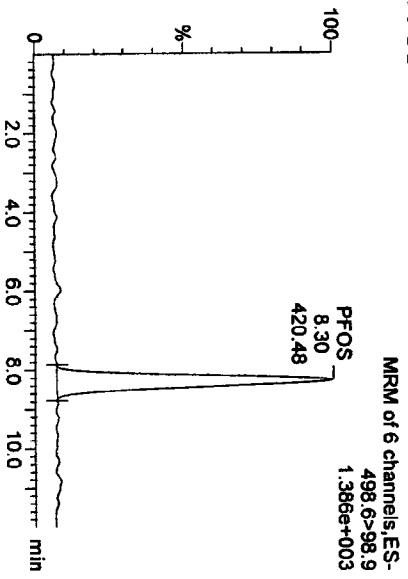
PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

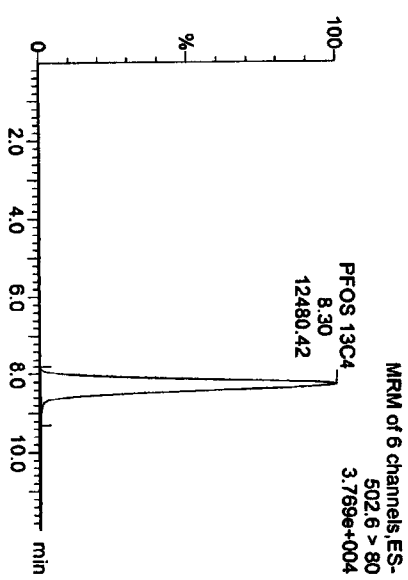
50

Name: pf37d2511, Date: 25-Apr-2007, Time: 19:19:27, ID: 923.79.3, Description: 0.5 µg/L RLV

PFOs



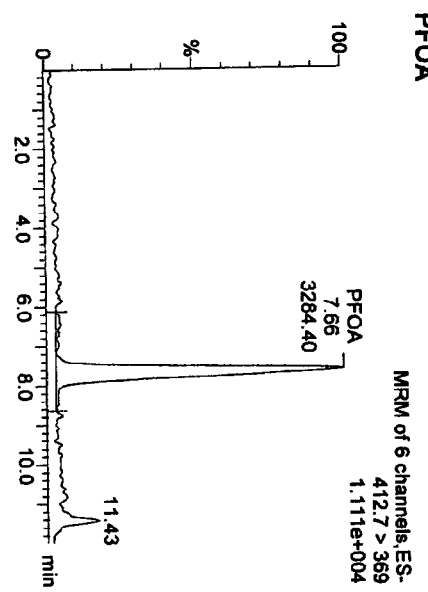
PFOs 13C4



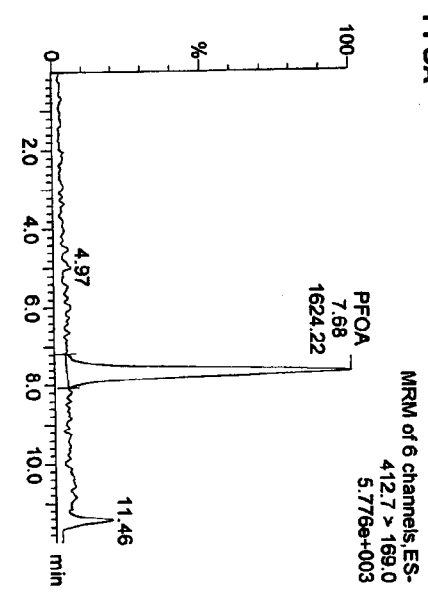
Name	RT	Area	St	Ratio	Conc	Conc	Conc
1 PFOA	7.74	817.875	bb	19625.471	3	0.417	0.440
2 APFO	7.74	817.875	bb	19625.471	3	0.417	0.458
3 PFOA 13C4	7.71	19625.471	bb	0	19625.471	11.377	113.8
4 PFOs	8.30	585.559	bb	12480.418	5	0.469	0.440
5 PFOs 13C4	8.30	12480.418	bb	0	12480.418	10.972	109.7

Name: pf37d2533, Date: 26-Apr-2007, Time: 00:04:21, ID: 923.79.5, Description: 2 µg/L CCV

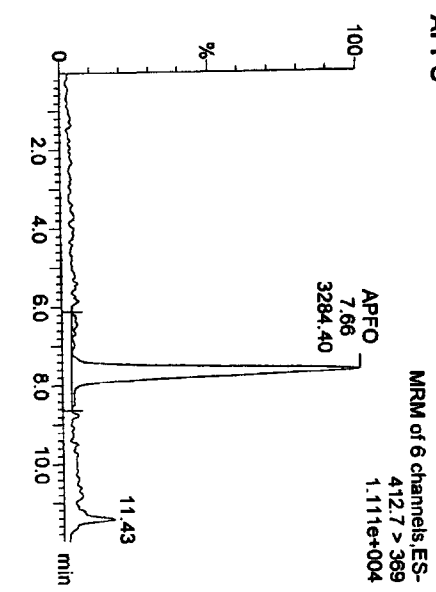
PFOA



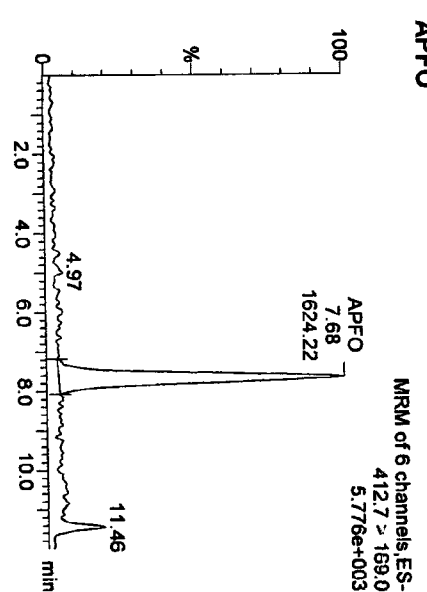
PFOA



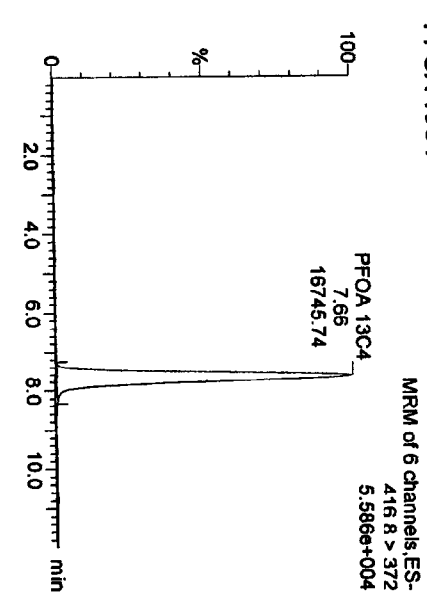
APFO



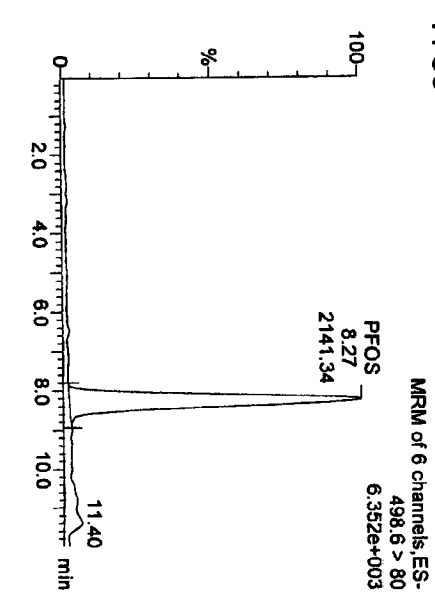
APFO



PFOA 13C4



PFOs



Quantity Sample Report MassLynx 4.1

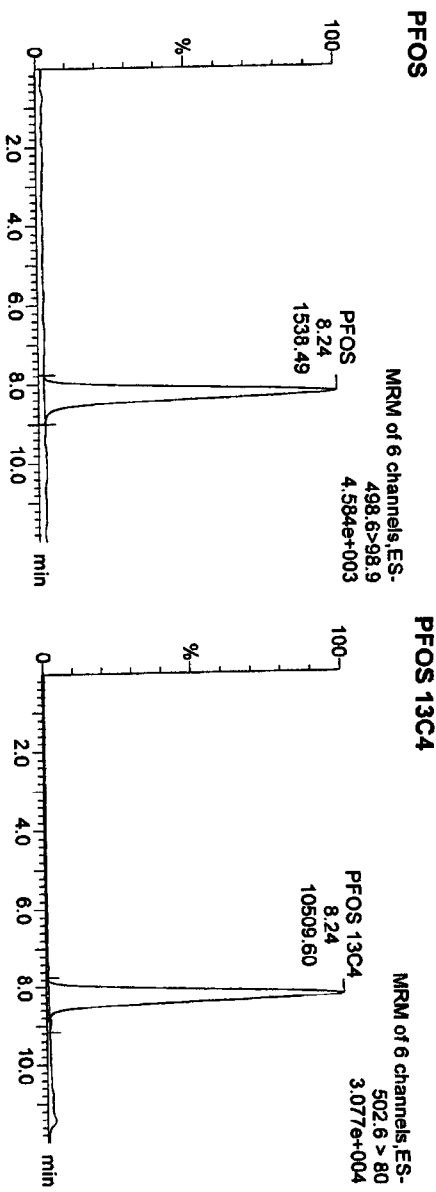
PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2533, Date: 26-Apr-2007, Time: 00:04:21, ID: 923.79.6, Description: 2 µg/L CCV



1	PFOA	7.66	3284.399	bb	16745.744	3	1.961	2.111	105.6
2	APFO	7.66	3284.399	bb	16745.744	3	1.961	2.196	105.6
3	PFOA 13C4	7.66	16745.744	bb	16745.744	0	16745.744	9.707	97.1
4	PFOA	8.27	2141.343	bb	10509.598	5	2.038	1.943	97.2
5	PFOA 13C4	8.24	10509.598	bb	10509.598	0	10509.598	9.239	92.4

PFOA Analysis

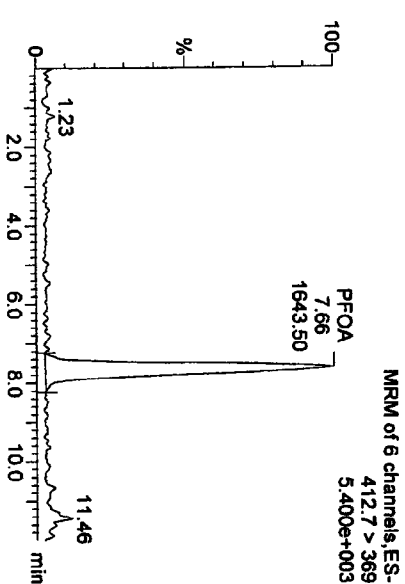
Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

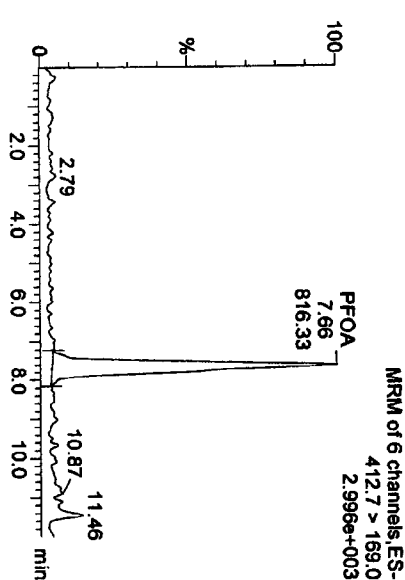
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2542, Date: 26-Apr-2007, Time: 02:00:55, ID: 923.79.4, Description: 1 µg/L CCV

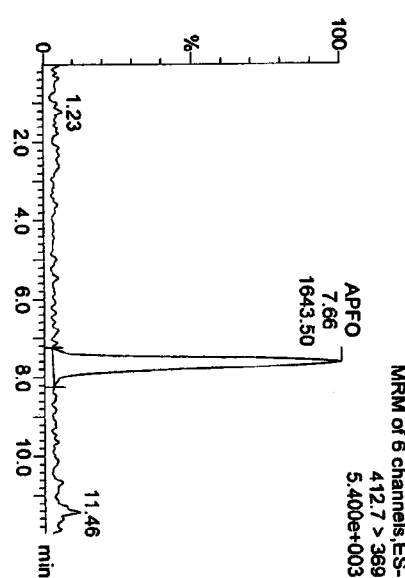
PFOA



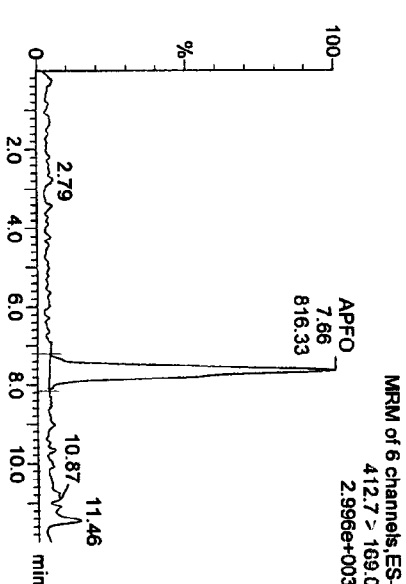
PFOA



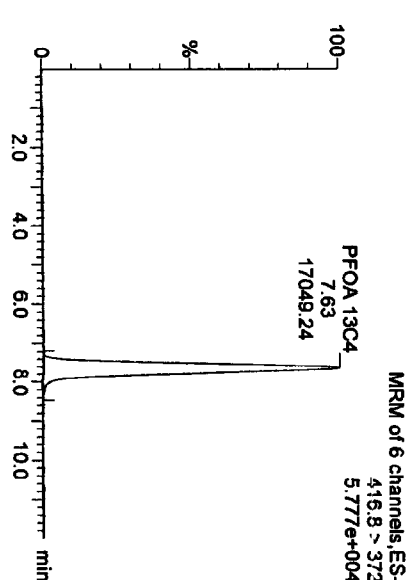
APFO



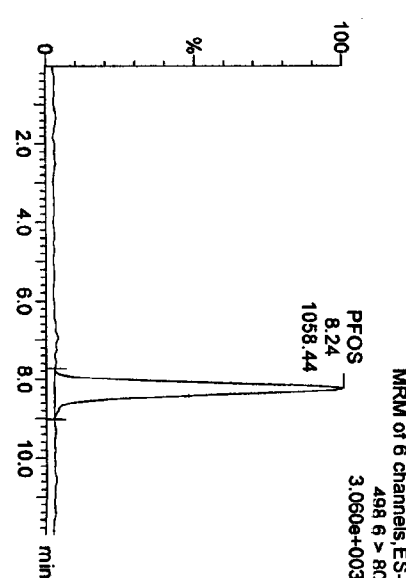
APFO



PFOA 13C4

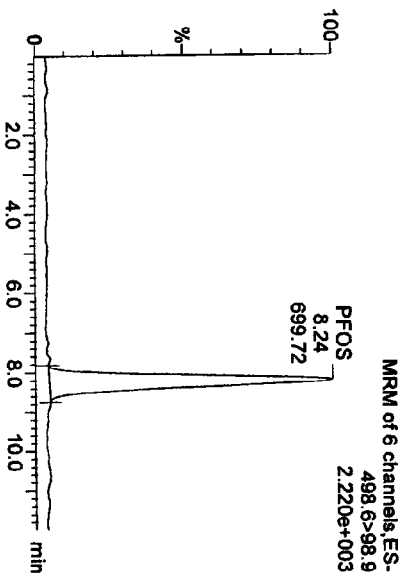


PFOs

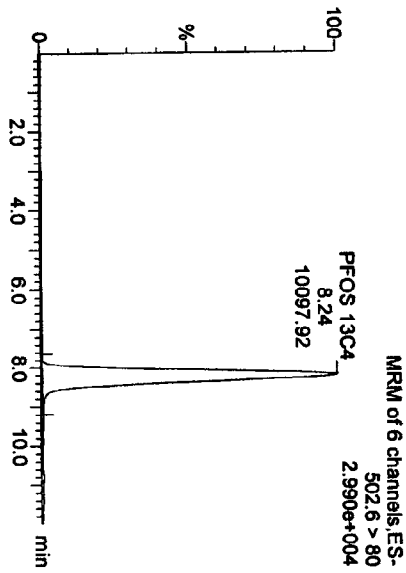


Name: p37d2542, Date: 26-Apr-2007, Time: 02:00:55, ID: 923.79.4, Description: 1 µg/L CCV

PFOs



PFOs 13C4



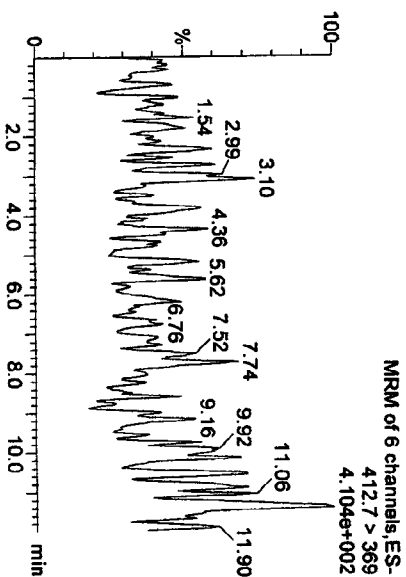
Peak	Name	Time	Mass	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	PFOA	7.66	1643.499	bb	17049.244	3	0.964	1.029	102.9										
2	APFO	7.66	1643.499	bb	17049.244	3	0.964	1.071	102.9										
3	PFOA 13C4	7.63	17049.244	bb	17049.244	0	17049.244	9.883	98.8										
4	PFOs	8.24	1058.437	bb	10097.919	5	1.048	0.992	99.2										
5	PFOs 13C4	8.24	10097.919	bb	10097.919	0	10097.919	8.877	88.8										

PFOA Analysis

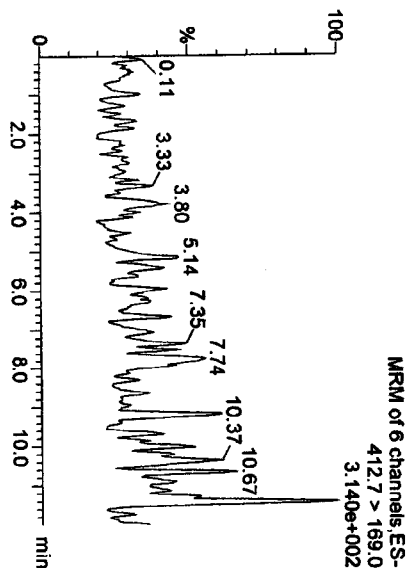
Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d252, Date: 26-Apr-2007, Time: 06:19:56, ID: 923.79.1, Description: Blank

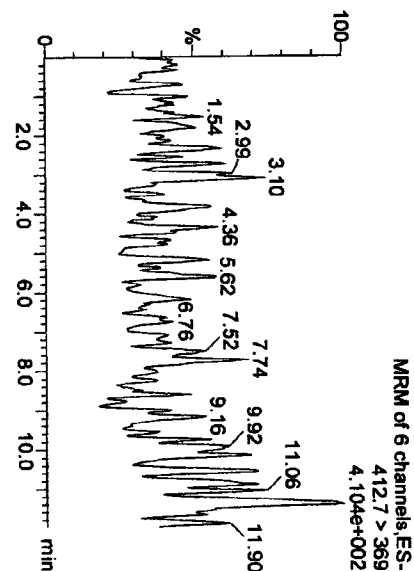
PFOA



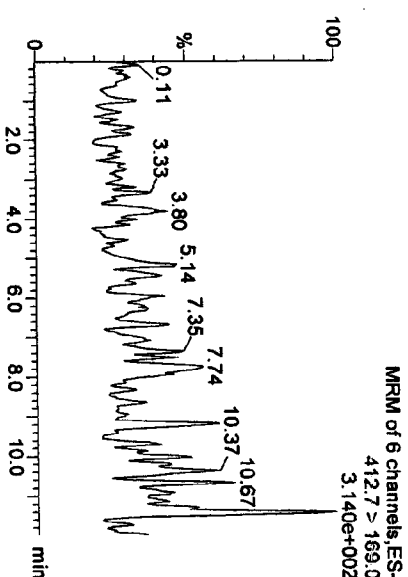
PFOA



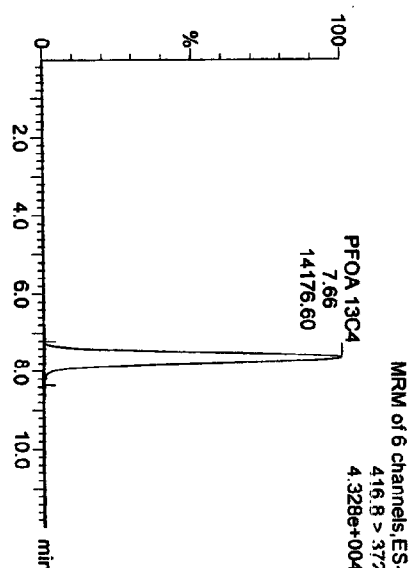
APFO



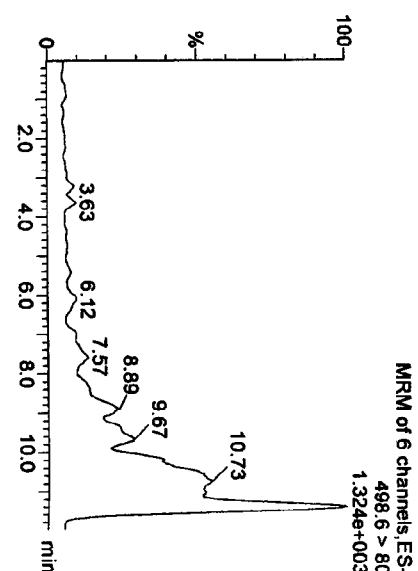
APFO



PFOA 13C4



PFOS



PFOA Analysis

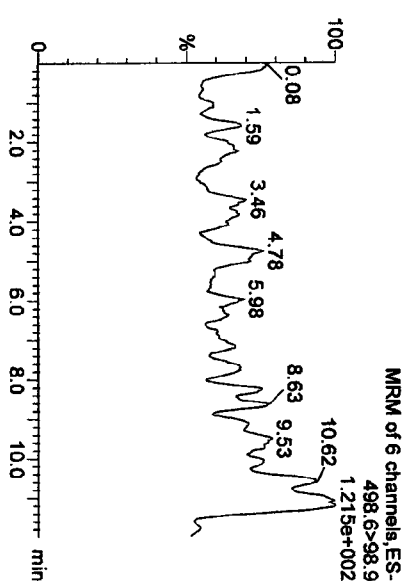
Dataset: C:\MassLynx\PF0A.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

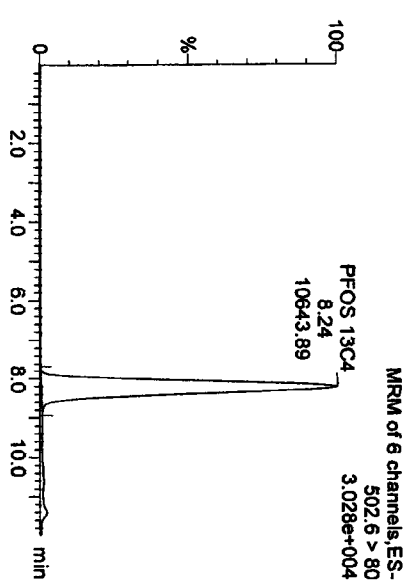
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p137d2562, Date: 26-Apr-2007, Time: 06:19:56, ID: 923.79.1, Description: Blank

PFOs



PFOS 13C4



Name	Area	Height	Score	Std. Residual	Score / Res. Mid. Norm. Ind.	Score / Res. Mid. Norm. Ind. - 1.96	Score / Res. Mid. Norm. Ind. + 1.96
1 PFOA			14176.599	3			
2 APFO			14176.599	3			
3 PFOA 13C4	7.66	14176.599	bb	0	14176.599	8.218	82.2
4 PFOs			10643.887	5			
5 PFOs 13C4	8.24	10643.887	bb	0	10643.887	9.357	93.6

PFOA Analysis

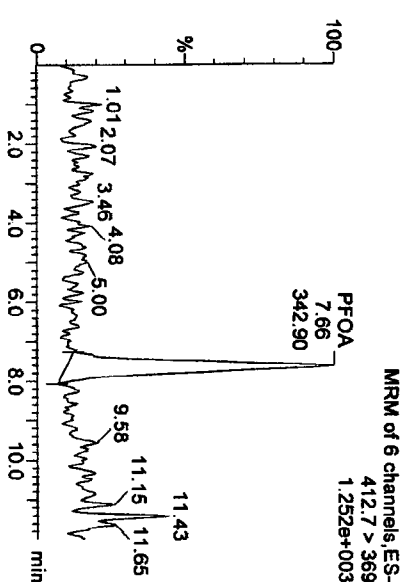
Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

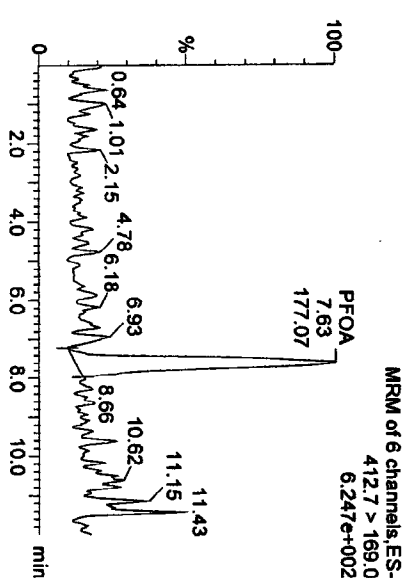
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2563, Date: 26-Apr-2007, Time: 06:32:52, ID: 923.79.2, Description: 0.2 µg/L

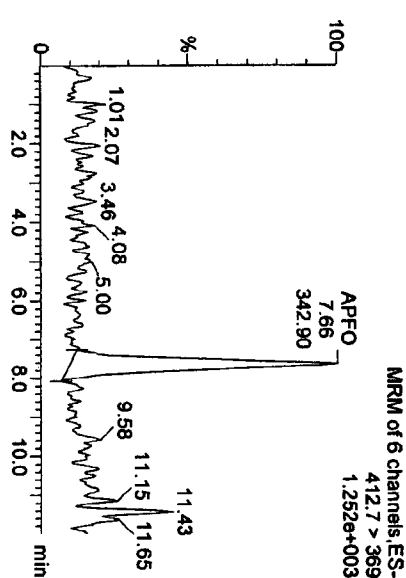
PFOA



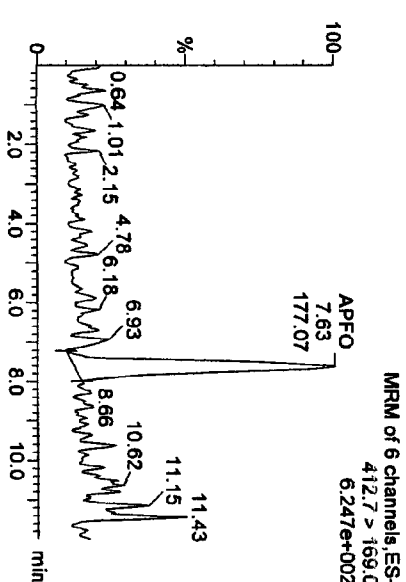
PFOA



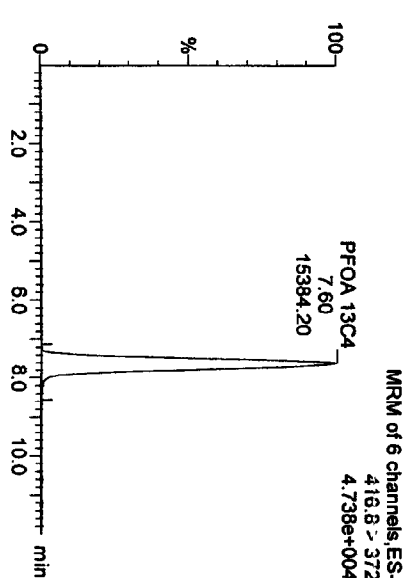
APFO



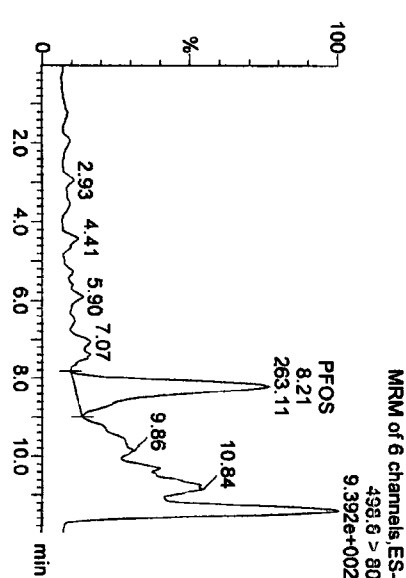
APFO



PFOA 13C4



PFOs



PFOA Analysis

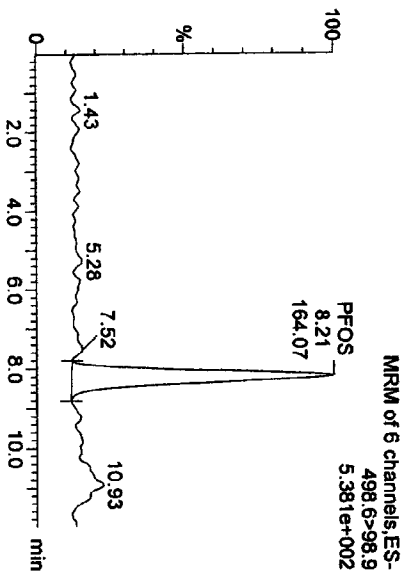
Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

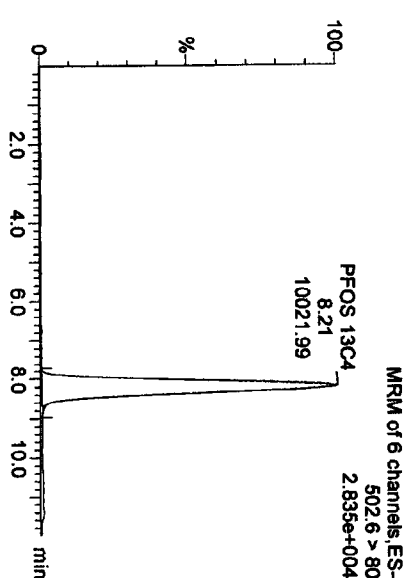
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2563, Date: 26-Apr-2007, Time: 06:32:52, ID: 923.79.2, Description: 0.2 µg/L

PFOs



PFOs 13C4

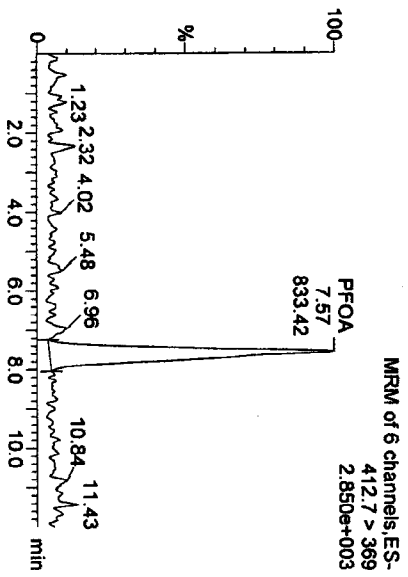


Name	Time	Area	Height	Ratio	Conc	Conc	Conc	Conc	Conc
1 PFOA	7.66	342.897	bb	15384.203	3	0.223	0.233	116.4	
2 APFO	7.66	342.897	bb	15384.203	3	0.223	0.242	116.4	
3 PFOA 13C4	7.60	15384.203	bb	0	15384.203	8.918	89.2		
4 PFOs	8.21	263.105	bb	10021.992	5	0.263	0.244	121.9	
5 PFOs 13C4	8.21	10021.992	bb	0	10021.992	8.811	88.1		

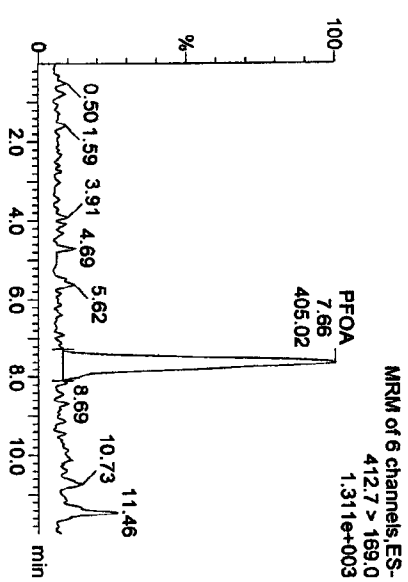
PFOA Analysis
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 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2564, Date: 26-Apr-2007, Time: 06:45:50, ID: 923.79.3, Description: 0.5 µg/L

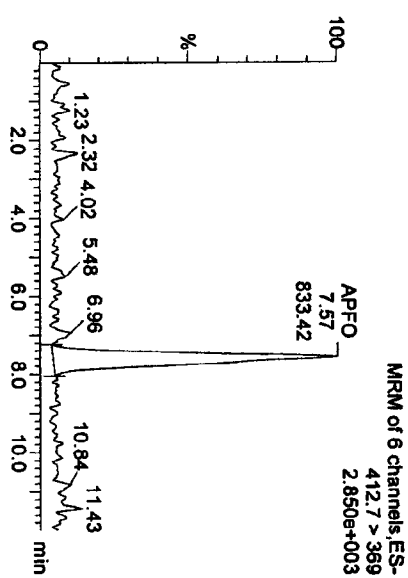
PFOA



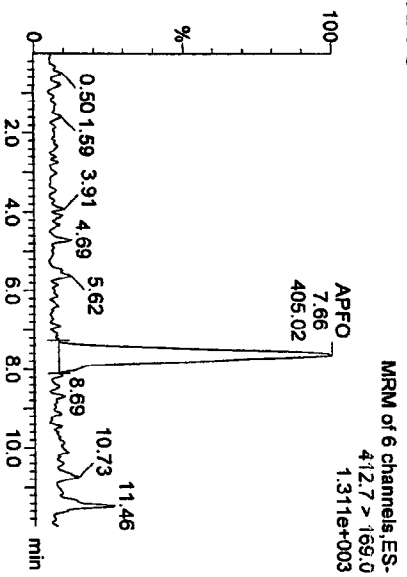
PFOA



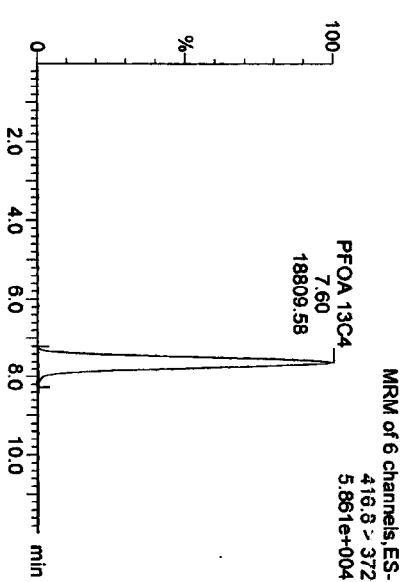
APFO



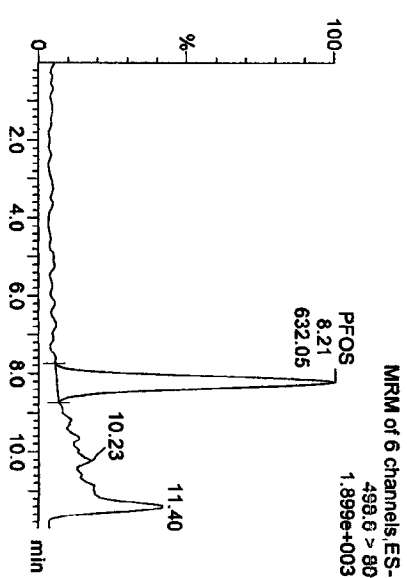
APFO



PFOA 13C4



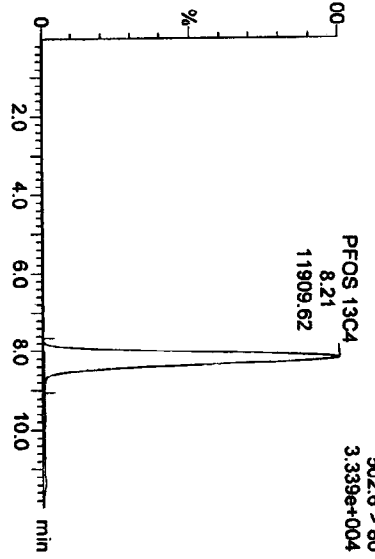
PFOA



60

DEP2-SDWB-000393

**MRM of 6 channels, ES-
E02 6 ~ 80**

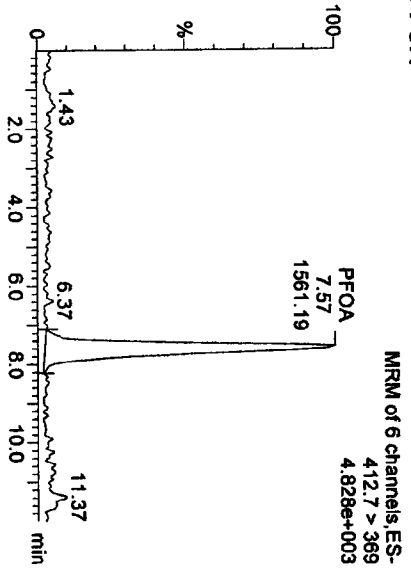


NB06	Air2	Eg	11	Rate	S1	Fold	Conto	R	Cd	Count	%	NB06-4
1 PFOA	7.57	833.425	b b	18809.576	3	0.443	0.469	93.7				
2 APFO	7.57	833.425	b b	18809.576	3	0.443	0.488	93.8				
3 PFOA 13C4	7.60	18809.576	b b		0	18809.576	10.904	109.0				
4 PFOS	8.21	632.047	b b	11909.618	5	0.531	0.489	99.7				
5 PFOS 13C4	8.21	11909.618	b b		0	11909.618	10.470	104.7				

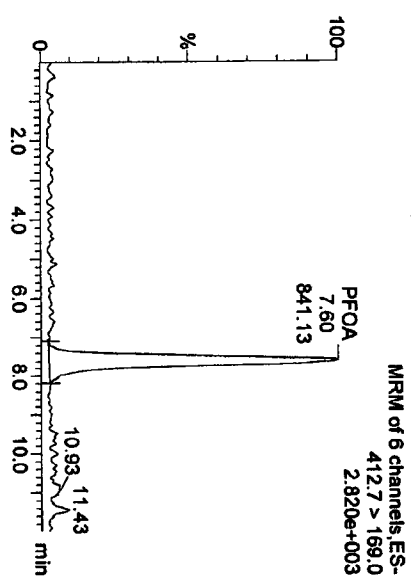
PFOA Analysis
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 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2565, Date: 26-Apr-2007, Time: 06:58:47, ID: 923.79.4, Description: 1 µg/L

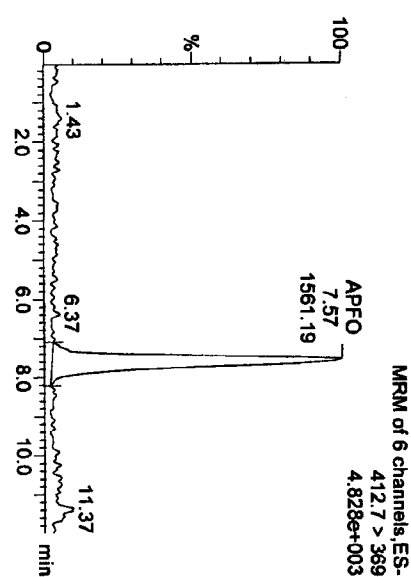
PFOA



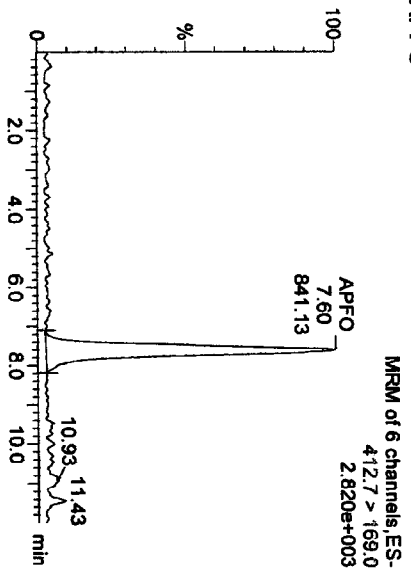
PFOA



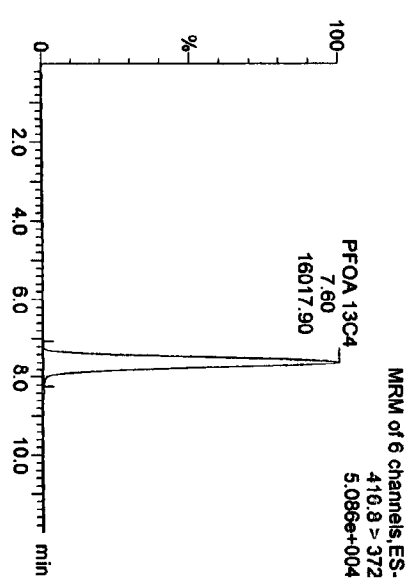
APFO



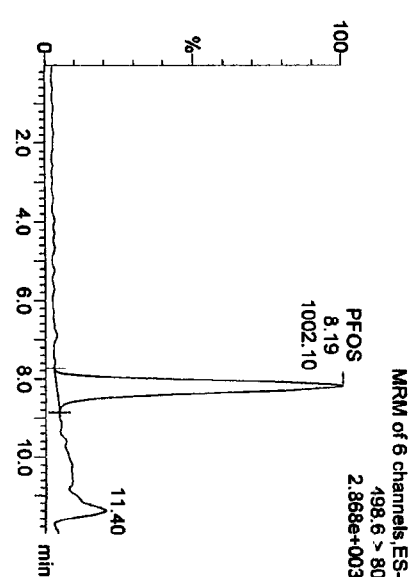
APFO



PFOA 13C4



PFOs



Quantity Sample Report MassLynx 4.1

PFOA Analysis

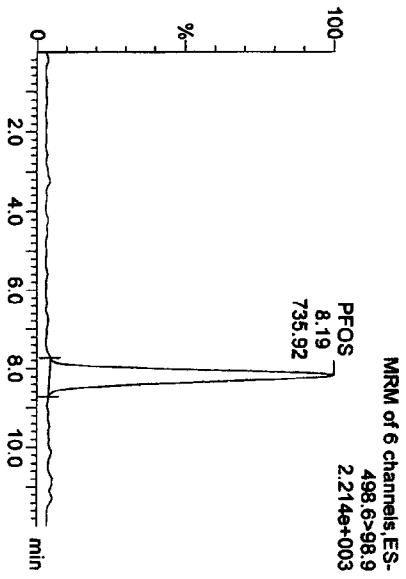
Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

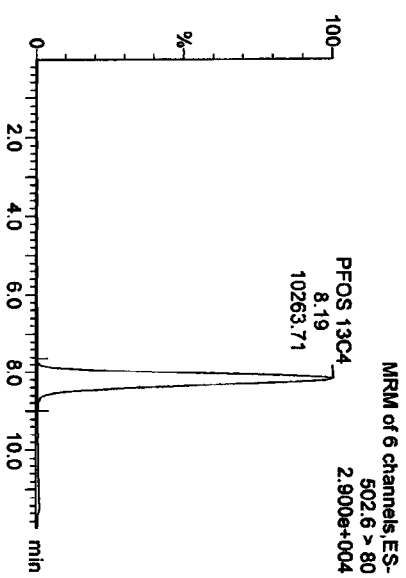
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2565, Date: 26-Apr-2007, Time: 06:58:47, ID: 923.79.4, Description: 1 µg/L

PFOA



PFOA 13C4



Peak	Name	RT	Area	Height	IS Area	IS Height	Ratio	Response	Conc	Ratio	Response
1	PFOA	7.57	1561.195	bb	16017.895	3	0.975	1.040	104.0		
2	APFO	7.57	1561.195	bb	16017.895	3	0.975	1.083	104.0		
3	PFOA 13C4	7.60	16017.895	bb		0	16017.895	9.285	92.9		
4	PFOA	8.19	1002.100	bb	10263.706	5	0.976	0.923	92.3		
5	PFOA 13C4	8.19	10263.706	bb		0	10263.706	9.023	90.2		

PFOA Analysis

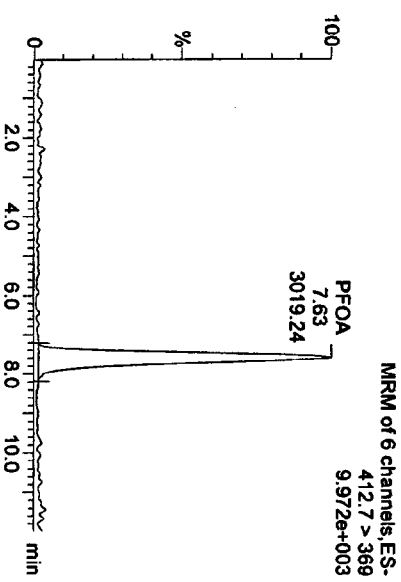
Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

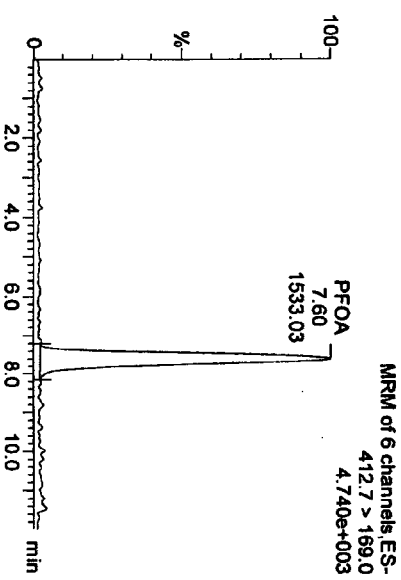
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2566, Date: 26-Apr-2007, Time: 07:11:43, ID: 923.79.5, Description: 2 µg/L

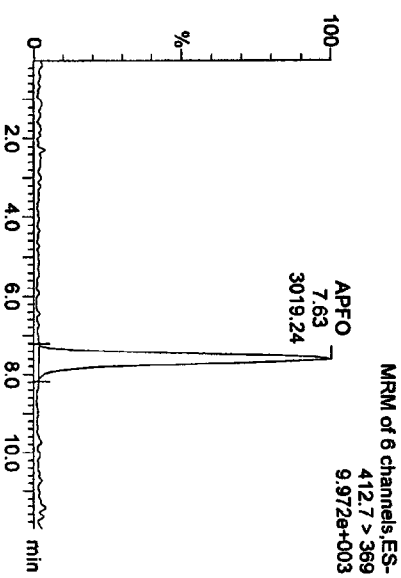
PFOA



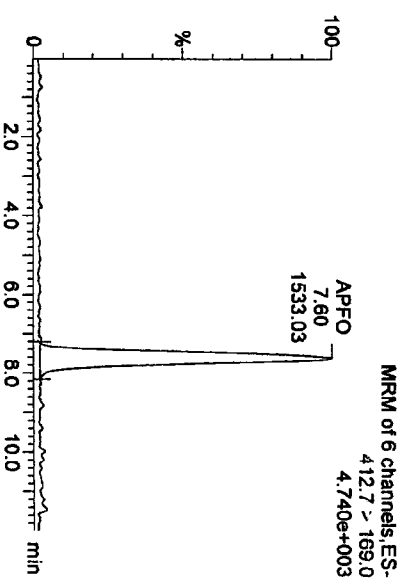
PFOA



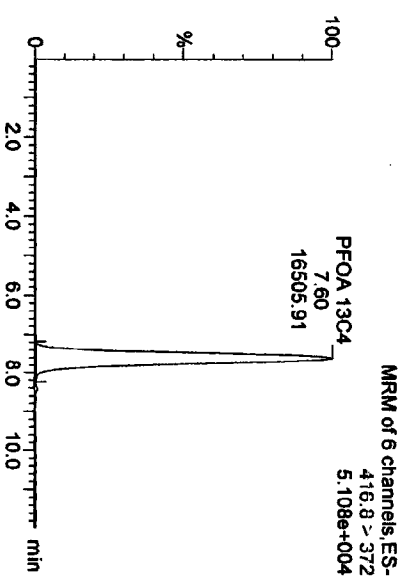
APFO



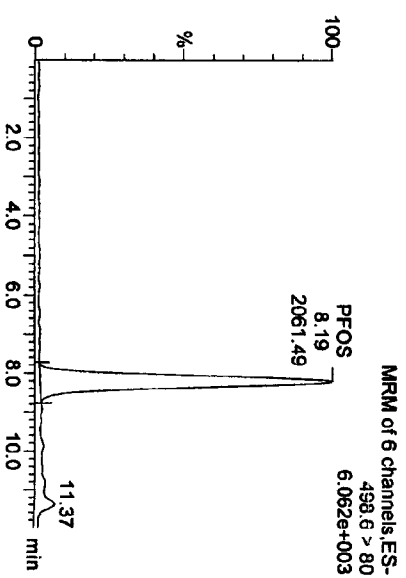
APFO



PFOA 13C4

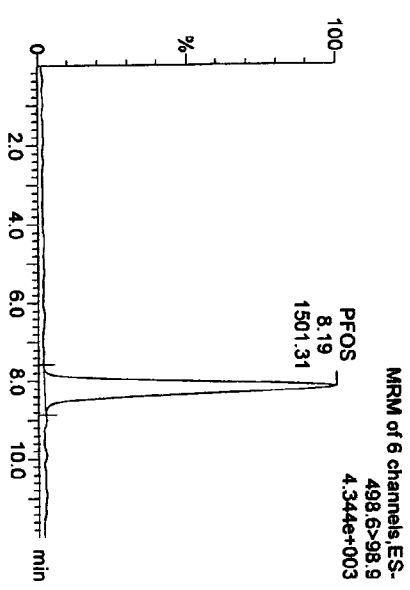


PFOs

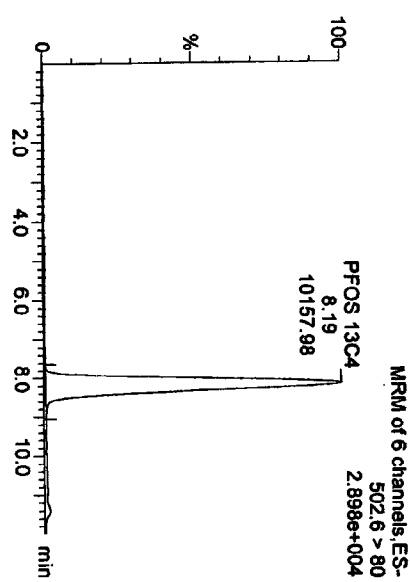


Name: pf37d2566, Date: 26-Apr-2007, Time: 07:11:43, ID: 923.79.5, Description: 2 µg/L

PFOS



PFOA 13C4



Peak	Time (min)	Area	Height	Signal	Baseline	Integration	Integration	Integration	Integration
1	PFOA	7.63	3019.240	bb	16505.914	3	1.829	1.967	98.3
2	APFO	7.63	3019.240	bb	16505.914	3	1.829	2.048	98.3
3	PFOA 13C4	7.60	16505.914	bb	0	0	16505.914	9.568	95.7
4	PFOA	8.19	2061.491	bb	10157.976	5	2.029	1.935	96.8
5	PFOA 13C4	8.19	10157.976	bb	0	0	10157.976	8.930	89.3

PFOA Analysis

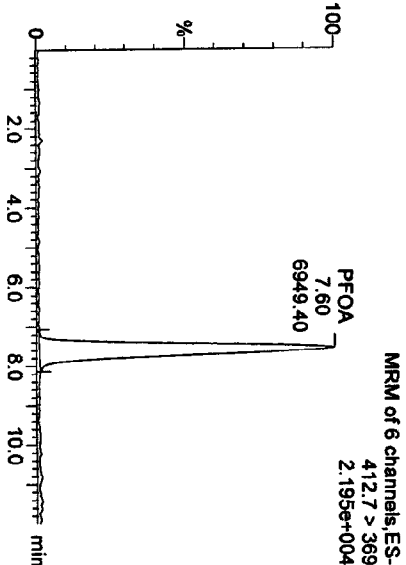
Dataset: C:\MassLynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

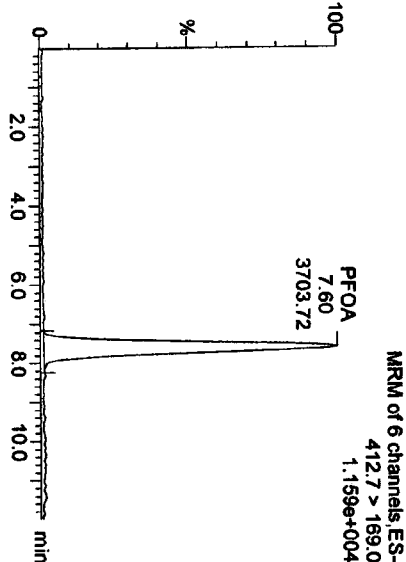
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2567, Date: 26-Apr-2007, Time: 07:24:40, ID: 923.79.6, Description: 5 µg/L

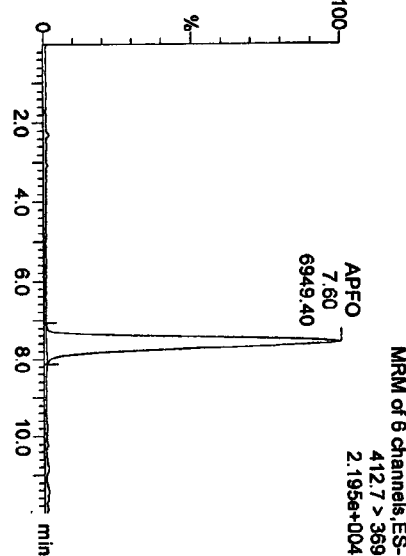
PFOA



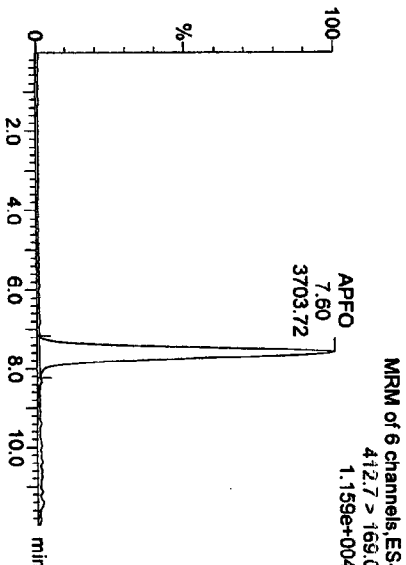
PFOA



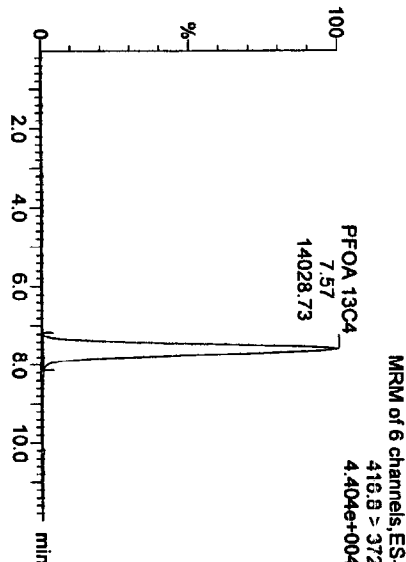
APFO



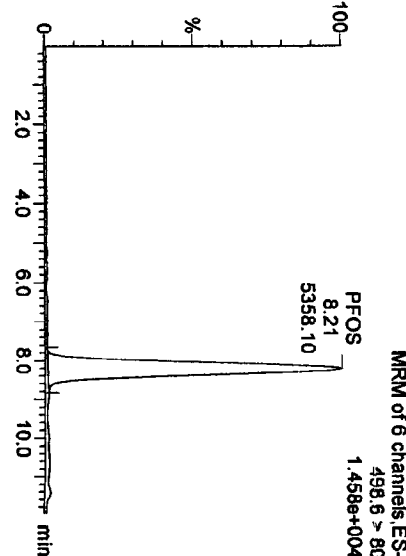
APFO



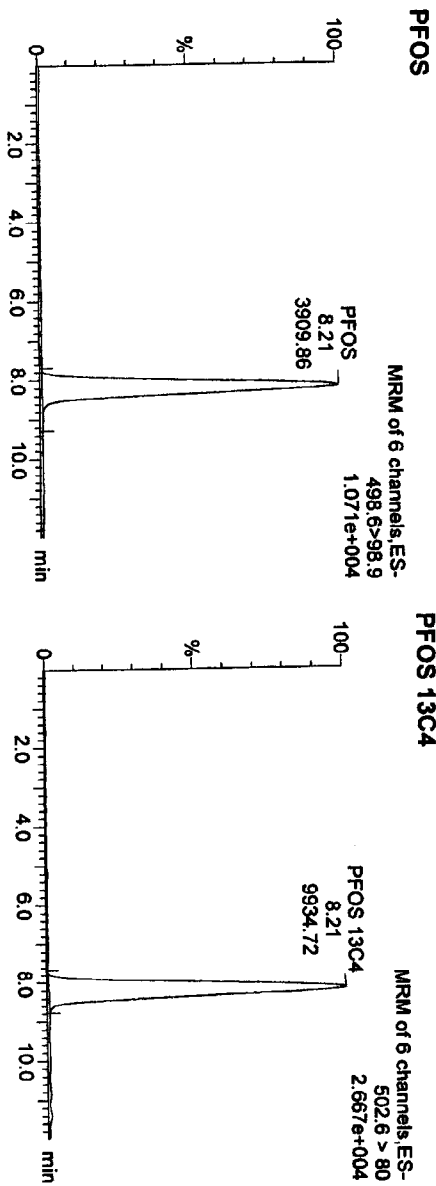
PFOA 13C4



PFOS



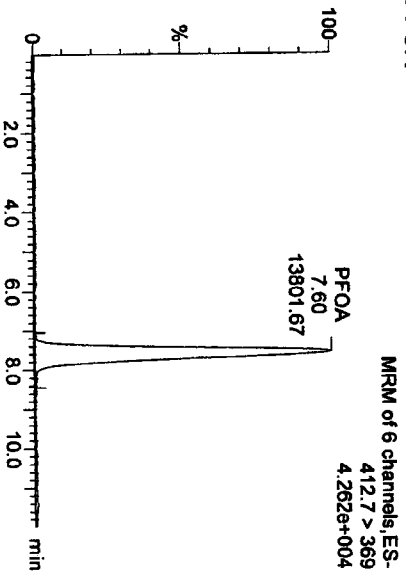
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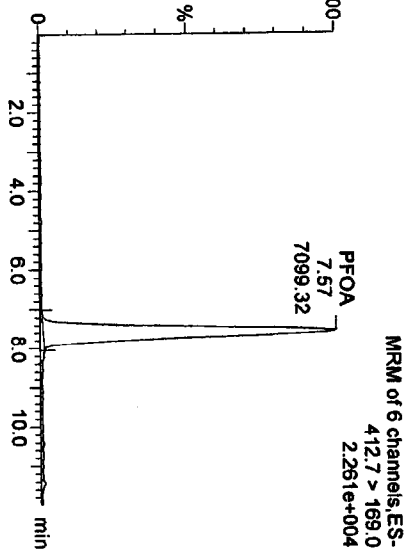
Name	Time	Mass	Area	Height	Width	Height	Area	Height	Width
1 PFOA	7.60	6949.397	bb	14028.726	3	4.954	5.442	108.8	
2 APFO	7.60	6949.397	bb	14028.726	3	4.954	5.665	108.8	
3 PFOA 13C4	7.57	14028.726	bb	0	0	14028.726	8.132	81.3	
4 PFOA	8.21	5358.097	bb	9934.720	5	5.393	5.244	104.9	
5 PFOA 13C4	8.21	9934.720	bb	0	0	9934.720	8.734	87.3	

Name: pf37d2568, Date: 26-Apr-2007, Time: 07:37:37, ID: 923.79.7, Description: 10 µg/L

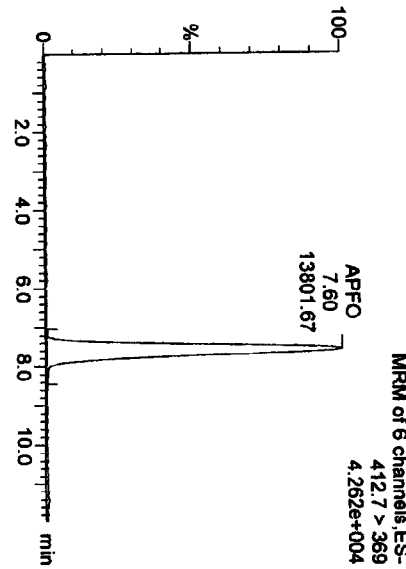
PFOA



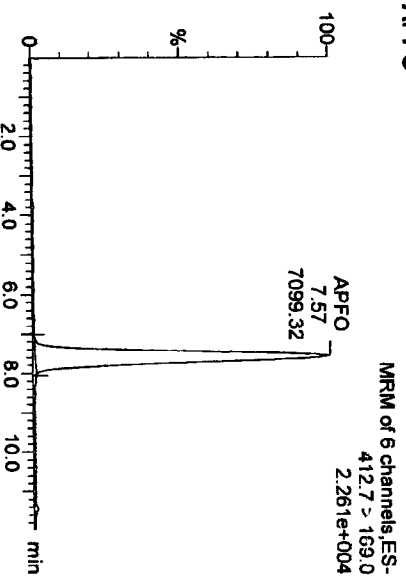
PFOA



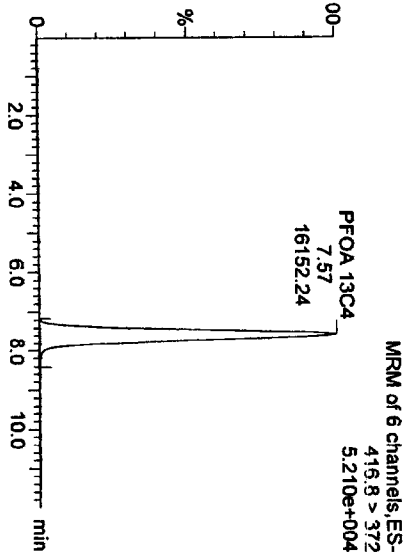
APFO



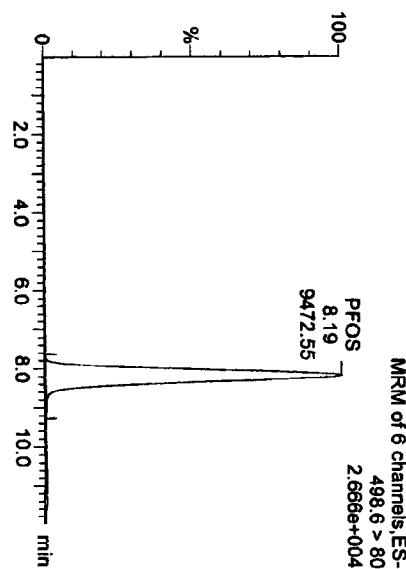
APFO



PFOA 13C4



PFOS



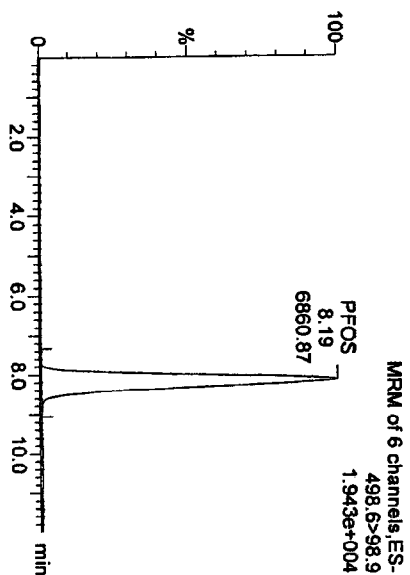
PFOA Analysis

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 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

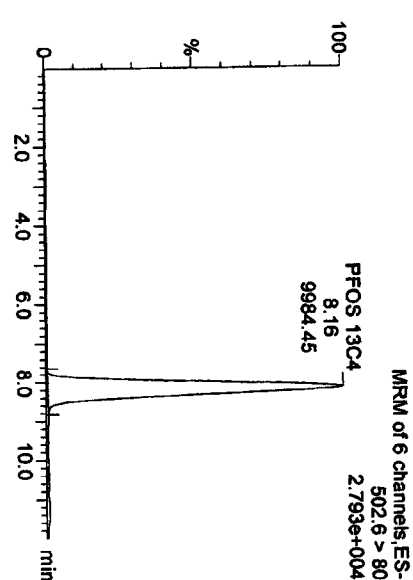
68

Name: pf37d2568, Date: 26-Apr-2007, Time: 07:37:37, ID: 923.79.7, Description: 10 µg/L

PFOs



PFOs 13C4



NAME	RT	Area	Height	IS	Ratio	Ratio	Ratio	Ratio	Ratio
1 PFOA	7.60	13801.671	bb	16152.243	3	8.545	9.620	96.2	
2 APFO	7.60	13801.671	bb	16152.243	3	8.545	10.015	96.2	
3 PFOA 13C4	7.57	16152.243	bb	16152.243	0	16152.243	9.363	93.6	
4 PFOs	8.19	9472.549	bb	9984.450	5	9.487	9.444	94.4	
5 PFOs 13C4	8.16	9984.450	bb	9984.450	0	9984.450	8.778	87.8	

Quantity Sample Report MassLynx 4.1

PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

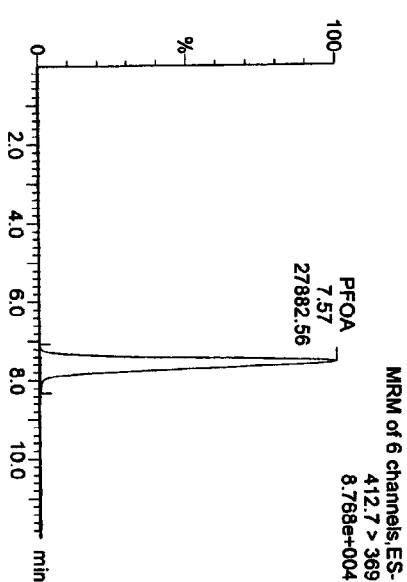
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

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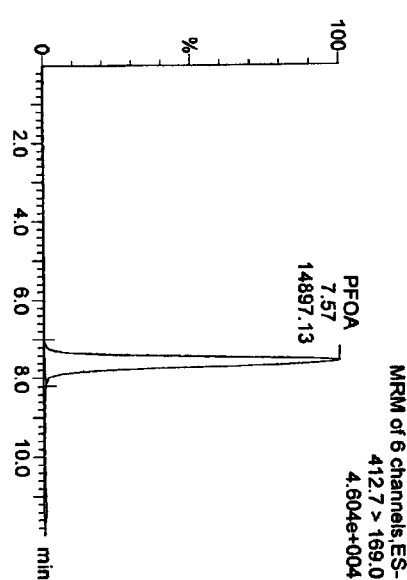
69

Name: p37d2569, Date: 26-Apr-2007, Time: 07:50:34, ID: 923.79.8, Description: 20 µg/L

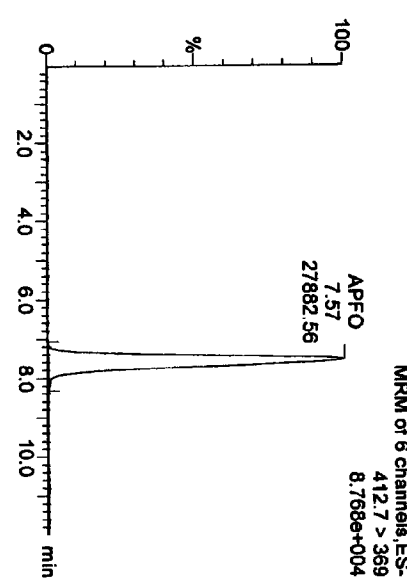
PFOA



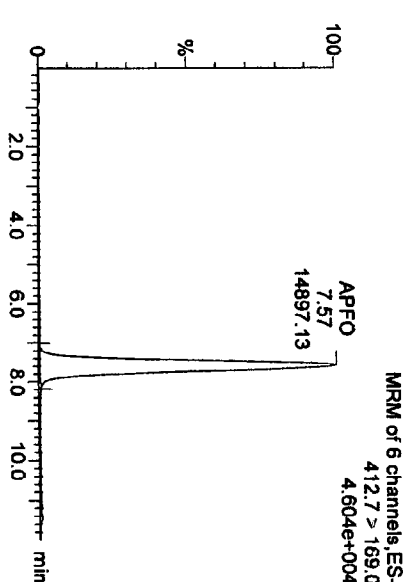
PFOA



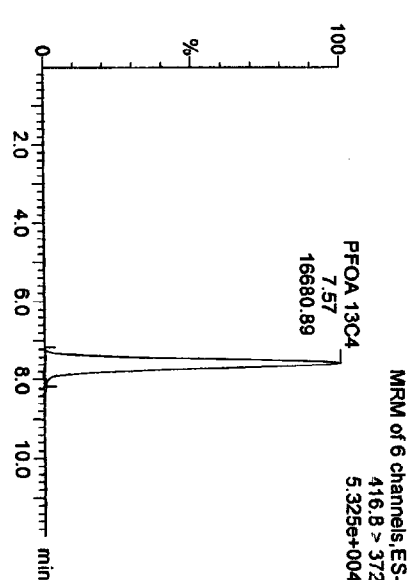
APFO



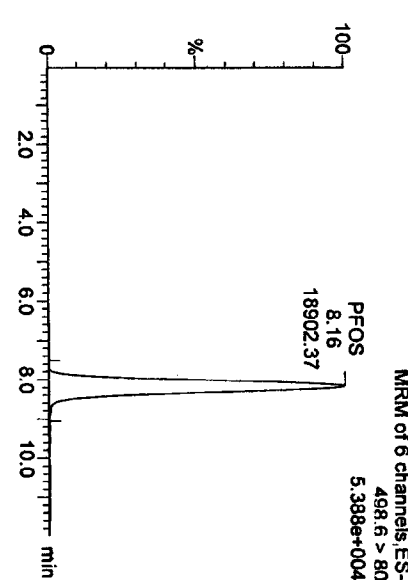
APFO



PFOA 13C4



PFOs



PFOA Analysis

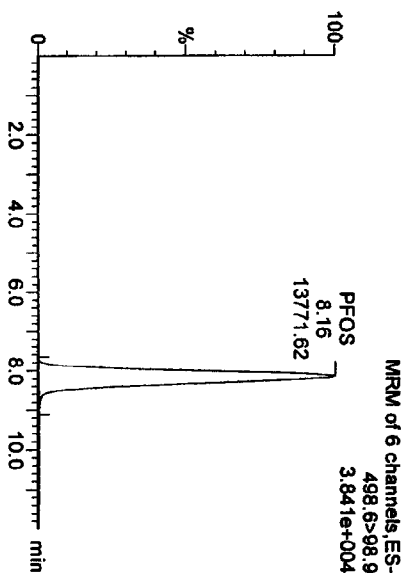
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

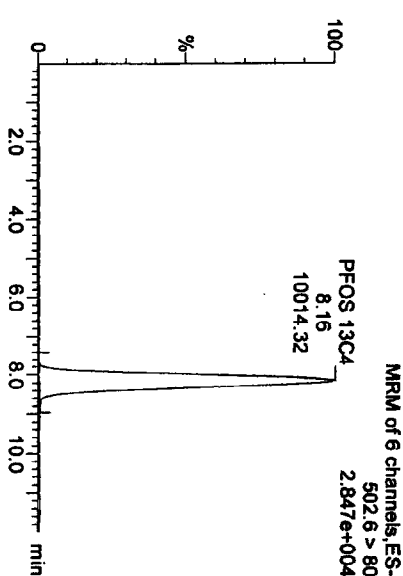
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2569, Date: 26-Apr-2007, Time: 07:50:34, ID: 923.79.8, Description: 20 µg/L

PFOs



PFOs 13C4



Peak	RT	Area	Flag	Mass	St	Response	Conc	Int	% of Total
1 PFOA	7.57	27882.564	bb	16680.887	3	16.715	20.046	100.2	
2 APFO	7.57	27882.564	bb	16680.887	3	16.715	20.869	100.2	
3 PFOA 13C4	7.57	16680.887	bb	10014.320	0	16680.887	9.670	96.7	
4 PFOs	8.16	18902.365	bb	10014.320	5	18.875	19.960	99.8	
5 PFOs 13C4	8.16	10014.320	bb	10014.320	0	10014.320	8.804	88.0	

**LC/MS SEMIVOLATILE
SAMPLE DATA**

STL

Sample List Report

MassLynx 4.1

Sample List: C:\MassLynx\PFOA.PRO\SampleDB\pf37d25(2).SPL
 Last Modified: Friday, April 27, 2007 10:20:08 Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:00 Mountain Daylight Time

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Page Position (1, 1)

	File Name	Sample ID	File Text	Sample Type	PFOA µg/L or kg	APFO µg/L or kg	Bottle
1	pf37d2501	923.79.1	Blank	Blank	0	0	1:1,A
2	pf37d2502	923.79.2	0.2 µg/L	Standard	0.2	0.208	1:1,B
3	pf37d2503	923.79.3	0.5 µg/L	Standard	0.5	0.520	1:1,C
4	pf37d2504	923.79.4	1 µg/L	Standard	1	1.041	1:1,D
5	pf37d2505	923.79.5	2 µg/L	Standard	2	2.082	1:1,E
6	pf37d2506	923.79.6	5 µg/L	Standard	5	5.205	1:1,F
7	pf37d2507	923.79.7	10 µg/L	Standard	10	10.411	1:2,A
8	pf37d2508	923.79.8	20 µg/L	Standard	20	20.821	1:2,B
9	pf37d2509	923.79.1	Blank	Blank	0	0	1:1,A
10	pf37d2510	923.79.10	2 µg/L ICV	QC	2	2.082	1:2,C
11	pf37d2511	923.79.3	0.5 µg/L RLV	QC	0.5	0.520	1:1,C
12	pf37d2533	923.79.5	2 µg/L CCV	QC	2	2.082	1:1,E
13	pf37d2534	JVKEK1AA	R7D240000-515 MB	Blank	0	0	1:7,A
14	pf37d2535	JVKEK1AC	R7D240000-515 LCS	QC	10	10.411	1:7,B
15	pf37d2536	JVKEK1AD	R7D240000-515 LCS	QC	1.0	1.0411	1:7,C
16	pf37d2537	JT6V01AA	D7D180342-001	Analyte	0	0	1:7,D
17	pf37d2538	JT6V11AA	D7D180342-002	Analyte	0	0	1:7,E
18	pf37d2539	JT6V21AA	D7D180342-003	Analyte	0	0	1:7,F
19	pf37d2540	JT6V31AA	D7D180342-004	Analyte	0	0	1:8,A
20	pf37d2541	JT6V41AA	D7D180342-005	Analyte	0	0	1:8,B
21	pf37d2542	923.79.4	1 µg/L CCV	QC	1	1.041	1:1,D
22	pf37d2562	923.79.1	Blank	Blank	0	0	1:1,A
23	pf37d2563	923.79.2	0.2 µg/L	QC	0.2	0.208	1:1,B
24	pf37d2564	923.79.3	0.5 µg/L	QC	0.5	0.520	1:1,C
25	pf37d2565	923.79.4	1 µg/L	QC	1	1.041	1:1,D
26	pf37d2566	923.79.5	2 µg/L	QC	2	2.082	1:1,E
27	pf37d2567	923.79.6	5 µg/L	QC	5	5.205	1:1,F
28	pf37d2568	923.79.7	10 µg/L	QC	10	10.411	1:2,A
29	pf37d2569	923.79.8	20 µg/L	QC	20	20.821	1:2,B

Sample List Report**MassLynx 4.1**

Sample List: C:\MassLynx\PFOA.PRO\SampleDB\pf37d25(2).SPL
Last Modified: Friday, April 27, 2007 10:20:08 Mountain Daylight Time
Printed: Friday, April 27, 2007 10:24:00 Mountain Daylight Time

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Page Position (2, 1)

Extract mL	Sample mL or g	Dilution	Inject Volume	MS Tune File	Inlet File	MS File
1.000000	0.000000	0.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	250.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	250.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	250.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	256.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	240.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	253.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	251.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
5.000000	244.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S
1.000000	1.000000	1.000000	20.000000	PFOA	PFOA	PFOA_S

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DEP2-SDWB-000408

Name	Solid Content g/L	pH	Acid Value
29 p37d3569	923.79.8	QC	20.000
	20 µg/L	QC	7.57
		b _b	27882.564
		NO	1.872
		3	16680.867
		20.0464	100.2

STL Denver

MassLynx 4.1

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Compound name: APFO

Coefficient of Determination: $R^2 = 0.998736$

Calibration curve: $-0.00479134 \cdot x^2 + 0.900692 \cdot x + 0.00509623$

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

1 p37d2501	923.79.1	Blank	Blank	0.208	7.88	7.96	22.626	bb	2.012	NO	16399.908	3	0.014	0.0097	104.7
2 p37d2502	923.79.2	0.2 µg/L	Standard	0.520	7.82	7.82	826.403	bb	1.761	NO	16512.135	3	0.201	0.2177	104.7
3 p37d2503	923.79.3	0.5 µg/L	Standard	1.041	7.77	7.77	1668.012	bb	1.825	NO	19798.521	3	0.417	0.4589	88.2
4 p37d2504	923.79.4	1 µg/L	Standard	2.082	7.77	7.77	3309.523	bb	1.913	NO	17327.461	3	0.963	1.0692	102.7
5 p37d2505	923.79.5	2 µg/L	Standard	5.205	7.74	7.74	7315.175	bb	1.907	NO	17205.789	3	1.923	2.1546	103.5
6 p37d2506	923.79.6	5 µg/L	Standard	10.411	7.74	7.74	14644.253	bb	1.828	NO	15369.824	3	4.759	5.4357	103.5
7 p37d2507	923.79.7	10 µg/L	Standard	20.821	7.71	7.71	29086.564	bb	1.857	NO	17237.646	3	8.496	9.9536	104.4
8 p37d2508	923.79.8	20 µg/L	Standard								17303.525	3	16.810	21.0042	100.9
9 p37d2509	923.79.1	Blank	Blank	2.082	7.71	7.71	2869.092	bb	1.915	NO	14757.614	3	1.921	2.1515	103.3
10 p37d2510	923.79.10	2 µg/L ICV	QC	0.520	7.74	7.74	817.875	bb	1.851	NO	14937.084	3	0.417	0.4581	88.1
11 p37d2511	923.79.3	0.5 µg/L RLV	QC	2.082	7.66	7.66	3284.399	bb	2.022	NO	19625.471	3	1.961	2.1976	105.6
12 p37d2533	923.79.5	2 µg/L CCV	QC	7.04	7.66	7.66	86.031	bb	4.873	YES	16745.744	3	0.073	0.0015	102.2
13 p37d2534	JVKEK1AA	R7D240000-515 MB	Blank	10.411	7.66	7.66	13534.138	bb	1.995	NO	11734.774	3	10.526	0.2503	120.2
14 p37d2535	JVKEK1AC	R7D240000-515 L...	QC	1.041	7.68	7.68	924.474	bb	2.145	NO	12856.166	3	0.960	0.0213	102.5
15 p37d2536	JVKEK1AD	R7D240000-515 L...	QC	7.71	7.68	7.68	3554.841	bb	1.743	NO	9625.200	3	2.925	0.0645	102.5
16 p37d2537	JT6V01AA	D7D180342-001	Analyte	7.68	7.68	7.68	3610.698	bb	1.769	NO	12152.161	3	2.708	0.0636	102.5
17 p37d2538	JT6V11AA	D7D180342-002	Analyte	7.57	7.68	7.68	1853.626	bb	1.701	NO	13331.781	3	1.390	0.0306	102.5
18 p37d2539	JT6V21AA	D7D180342-003	Analyte	7.63	7.57	7.57	598.880	bb	1.947	NO	13338.372	3	0.448	0.0098	102.5
19 p37d2540	JT6V31AA	D7D180342-004	Analyte	7.63	7.63	7.63	644.344	bb	1.827	NO	13364.045	3	0.461	0.0104	102.5
20 p37d2541	JT6V41AA	D7D180342-005	Analyte	1.041	7.66	7.66	1643.499	bb	2.013	NO	13989.743	3	0.964	1.0707	102.9
21 p37d2542	923.79.4	1 µg/L CCV	QC								17049.244	3			
22 p37d2562	923.79.1	Blank	Blank	0.208	7.66	7.66	342.897	bb	1.937	NO	14176.599	3	0.223	0.2421	116.4
23 p37d2563	923.79.2	0.2 µg/L	QC	0.520	7.57	7.57	833.425	bb	2.058	NO	15384.203	3	0.443	0.4875	93.8
24 p37d2564	923.79.3	0.5 µg/L	QC	1.041	7.57	7.57	1561.195	bb	1.856	NO	18809.576	3	0.975	1.0827	104.0
25 p37d2565	923.79.4	1 µg/L	QC	2.082	7.63	7.63	3019.240	bb	1.969	NO	16017.895	3	1.829	2.0475	98.3
26 p37d2566	923.79.5	2 µg/L	QC	5.205	7.60	7.60	6949.397	bb	1.876	NO	16505.914	3	4.954	5.6649	108.8
27 p37d2567	923.79.6	5 µg/L	QC	10.411	7.60	7.60	13801.671	bb	1.944	NO	14028.726	3	8.545	10.0147	108.8
28 p37d2568	923.79.7	10 µg/L	QC	20.821	7.57	7.57	27882.564	bb	1.872	NO	16152.243	3		20.8695	104.2
29 p37d2569	923.79.8	20 µg/L	QC								16680.887	3			104.2

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WB-000410

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Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Compound name: APFO

STL Denver

Quantify Compound Summary Report MassLynx 4.1

PFOA Analysis
 Dataset: C:\Masslynx\PFOA.PRO\p37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Compound name: PFOA 13C4
 Response Factor: 1725.07
 RRF SD: 132.825, Relative SD: 7.69967
 Response type: External Std, Area
 Curve type: RF

1	p37d2501	923.79.1	Blank	Blank	10.000	7.94	16399.908	bb	0	16399.908	9.5068	95.1
2	p37d2502	923.79.2	0.2 µg/L	Standard	10.000	7.82	16512.135	bb	0	16512.135	9.5719	95.7
3	p37d2503	923.79.3	0.5 µg/L	Standard	10.000	7.80	18798.521	bb	0	18798.521	11.4769	114.8
4	p37d2504	923.79.4	1 µg/L	Standard	10.000	7.77	17327.461	bb	0	17327.461	10.0445	100.4
5	p37d2505	923.79.5	2 µg/L	Standard	10.000	7.74	17205.789	bb	0	17205.789	9.9740	99.7
6	p37d2506	923.79.6	5 µg/L	Standard	10.000	7.74	15369.824	bb	0	15369.824	8.9097	89.1
7	p37d2507	923.79.7	10 µg/L	Standard	10.000	7.74	17237.646	bb	0	17237.646	9.9924	99.9
8	p37d2508	923.79.8	20 µg/L	Standard	10.000	7.71	17303.525	bb	0	17303.525	10.0306	100.3
9	p37d2509	923.79.1	Blank	Blank	10.000	7.71	14757.614	bb	0	14757.614	8.5548	85.5
10	p37d2510	923.79.10	2 µg/L ICV	QC	10.000	7.71	14937.064	bb	0	14937.064	8.6588	86.6
11	p37d2511	923.79.3	0.5 µg/L RLV	QC	10.000	7.71	19625.471	bb	0	19625.471	11.3766	113.8
12	p37d2533	923.79.5	2 µg/L CCV	QC	10.000	7.66	16745.744	bb	0	16745.744	9.7073	97.1
13	p37d2534	JVKEK1AA	R7D240000-515 MB	Blank	10.000	7.68	11734.774	bb	0	11734.774	6.8025	68.0
14	p37d2535	JVKEK1AC	R7D240000-515 L...	QC	10.000	7.66	12858.166	bb	0	12858.166	7.4537	74.5
15	p37d2536	JVKEK1AD	R7D240000-515 L...	QC	10.000	7.71	9625.200	bb	0	9625.200	5.5796	55.8
16	p37d2537	JT6V01AA	D7D180342-001	Analyte	10.000	7.68	12152.161	bb	0	12152.161	7.0444	70.4
17	p37d2538	JT6V11AA	D7D180342-002	Analyte	10.000	7.68	13331.781	bb	0	13331.781	7.7283	77.3
18	p37d2539	JT6V21AA	D7D180342-003	Analyte	10.000	7.68	13338.372	bb	0	13338.372	7.7321	77.3
19	p37d2540	JT6V31AA	D7D180342-004	Analyte	10.000	7.60	13364.045	bb	0	13364.045	7.7470	77.5
20	p37d2541	JT6V41AA	D7D180342-005	Analyte	10.000	7.63	13989.743	bb	0	13989.743	8.1097	81.1
21	p37d2542	923.79.4	1 µg/L CCV	QC	10.000	7.63	17049.244	bb	0	17049.244	9.8832	98.8
22	p37d2562	923.79.1	Blank	Blank	10.000	7.66	14176.589	bb	0	14176.589	8.2180	82.2
23	p37d2563	923.79.2	0.2 µg/L	QC	10.000	7.60	15384.203	bb	0	15384.203	8.9180	89.2
24	p37d2564	923.79.3	0.5 µg/L	QC	10.000	7.60	18809.576	bb	0	18809.576	10.9037	109.0
25	p37d2565	923.79.4	1 µg/L	QC	10.000	7.60	16017.895	bb	0	16017.895	9.2854	92.9
26	p37d2566	923.79.5	2 µg/L	QC	10.000	7.60	16505.914	bb	0	16505.914	9.5683	95.7
27	p37d2567	923.79.6	5 µg/L	QC	10.000	7.57	14028.726	bb	0	14028.726	8.1323	81.3
28	p37d2568	923.79.7	10 µg/L	QC	10.000	7.57	16152.243	bb	0	16152.243	9.3632	93.6
29	p37d2569	923.79.8	20 µg/L	QC	10.000	7.57	16680.887	bb	0	16680.887	9.6697	96.7

Dataset: C:\MassLynx\PCFOA.PRO\p137d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Compound name: PFOA 13C4

[illegible]

Analyst: Mark Dymerski

Quantity Compound Summary Report MassLynx 4.1

PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Compound name: PFOs

Coefficient of Determination: $R^2 = 0.998746$

Calibration curve: $-0.0055757 * x^2 + 1.05667 * x + 0.00530869$

Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

1	p37d2501	923.79.1	Blank	Blank	7.54	12.368	bb	1.466	NO	12177.335	5	0.010	0.0046	103.3
2	p37d2502	923.79.2	0.2 µg/L	Standard	8.44	242.454	bb	1.295	NO	10850.116	5	0.223	0.2067	103.3
3	p37d2503	923.79.3	0.5 µg/L	Standard	8.38	611.677	bb	1.402	NO	12746.258	5	0.480	0.4502	90.0
4	p37d2504	923.79.4	1 µg/L	Standard	8.35	1208.480	bb	1.445	NO	11071.146	5	1.092	1.0336	103.4
5	p37d2505	923.79.5	2 µg/L	Standard	8.33	2412.917	bb	1.408	NO	11300.640	5	2.135	2.0376	101.9
6	p37d2506	923.79.6	5 µg/L	Standard	8.33	6743.988	bb	1.415	NO	12488.086	5	5.400	5.2512	105.0
7	p37d2507	923.79.7	10 µg/L	Standard	8.30	10281.079	bb	1.367	NO	10721.331	5	9.589	9.5514	95.5
8	p37d2508	923.79.8	20 µg/L	Standard	8.33	19902.998	bb	1.353	NO	10445.627	5	19.054	20.1746	100.9
9	p37d2509	923.79.1	Blank	Blank	8.33	2484.865	bb	1.393	NO	9890.509	5	2.223	2.1227	106.1
10	p37d2510	923.79.10	0.5 µg/L RLV	QC	8.30	585.559	bb	1.392	NO	11176.792	5	0.469	0.4400	88.0
11	p37d2511	923.79.3	2 µg/L CCV	QC	8.27	2141.343	bb	1.378	NO	12480.418	5	2.038	1.9431	97.2
12	p37d2533	923.79.5	R7D24000-515 MB	Blank	8.27	6855.432	bb	1.278	NO	10509.598	5	0.812	0.0153	76.6
13	p37d2534	JVKEK1AA	R7D24000-515 L...	QC	8.30	436.819	bb	1.494	NO	7557.958	5	0.369	0.0067	90.1
14	p37d2535	JVKEK1AD	R7D180342-001	Analyte	8.30	250.550	bb	2.257	YES	5380.769	5	0.372	0.0072	90.1
15	p37d2537	JT6V01AA	D7D180342-002	Analyte	8.21	300.915	bb	1.784	YES	6783.595	5	0.116	0.0021	90.1
16	p37d2538	JT6V11AA	D7D180342-003	Analyte	8.21	90.375	bb	1.566	NO	8099.259	5	0.242	0.0045	90.1
17	p37d2539	JT6V21AA	D7D180342-004	Analyte	8.24	226.873	bb	1.965	YES	7806.280	5	0.246	0.0047	90.1
18	p37d2540	JT6V31AA	D7D180342-005	Analyte	8.24	249.530	bb	1.513	NO	9393.114	5	1.048	0.9821	99.2
19	p37d2541	JT6V41AA	Blank	Blank	8.24	1058.437	bb	1.604	NO	10097.919	5	0.263	0.2437	121.9
20	p37d2542	923.79.4	0.2 µg/L	QC	8.21	263.105	bb	1.630	NO	10021.992	5	0.531	0.4985	99.7
21	p37d2562	923.79.1	0.5 µg/L	QC	8.21	632.047	bb	1.362	NO	11809.618	5	0.976	0.9235	92.3
22	p37d2563	923.79.2	1 µg/L	QC	8.19	1002.100	bb	1.373	NO	10263.706	5	2.029	1.9353	96.8
23	p37d2564	923.79.3	2 µg/L	QC	8.19	2061.491	bb	1.381	NO	10157.976	5	5.383	5.2441	104.9
24	p37d2565	923.79.4	5 µg/L	QC	8.21	5358.097	bb	1.373	NO	9934.720	5	9.487	9.4441	98.4
25	p37d2566	923.79.5	10 µg/L	QC	8.19	9472.549	bb	1.373	NO	9984.450	5	18.875	19.9602	99.8
26	p37d2567	923.79.6	20 µg/L	QC	8.16	18902.365	bb	1.373	NO	10014.320	5	18.875	19.9602	99.8
27	p37d2568	923.79.7	Blank	Blank	8.16	18902.365	bb	1.373	NO	10014.320	5	18.875	19.9602	99.8
28	p37d2569	923.79.8	Blank	Blank	8.16	18902.365	bb	1.373	NO	10014.320	5	18.875	19.9602	99.8
29	p37d2569	923.79.8	Blank	Blank	8.16	18902.365	bb	1.373	NO	10014.320	5	18.875	19.9602	99.8

Compound name: PFOS

27	27/Apr/07	
26	27/Apr/07	
25	27/Apr/07	
24	27/Apr/07	
23	27/Apr/07	
22	27/Apr/07	
21	27/Apr/07	
20	27/Apr/07	
19	27/Apr/07	
18	27/Apr/07	
17	27/Apr/07	
16	27/Apr/07	
15	27/Apr/07	
14	27/Apr/07	
13	27/Apr/07	
12	27/Apr/07	
11	27/Apr/07	
10	27/Apr/07	
9	27/Apr/07	
8	27/Apr/07	
7	27/Apr/07	
6	27/Apr/07	
5	27/Apr/07	
4	27/Apr/07	
3	27/Apr/07	
2	27/Apr/07	
1	27/Apr/07	

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Quantify Compound Summary Report **MassLynx 4.1**
PFOA Analysis

Dataset: C:\MassLynx\1\FOIA.PRO\p37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Compound name: PFOS 13C4

Response Factor: 1137.47

RRF SD: 89.2906, Relative SD: 7.8499

Response type: External Std, Area

Curve type: RF

Sample	Concentration	Blank	Blank	10,000	8.49	12177.335	bb	0 12177.335	10,7056	107.1
1 p37d2501	923.79.1	Blank	Blank	10,000	8.49	12177.335	bb	0 12177.335	10,7056	107.1
2 p37d2502	923.79.2	0.2 µg/L	Standard	10,000	8.38	10850.116	bb	0 10850.116	9.5388	95.4
3 p37d2503	923.79.3	0.5 µg/L	Standard	10,000	8.35	12746.258	bb	0 12746.258	11.2058	112.1
4 p37d2504	923.79.4	1 µg/L	Standard	10,000	8.35	11071.146	bb	0 11071.146	9.7331	97.3
5 p37d2505	923.79.5	2 µg/L	Standard	10,000	8.33	11300.640	bb	0 11300.640	9.9349	99.3
6 p37d2506	923.79.6	5 µg/L	Standard	10,000	8.33	12488.086	bb	0 12488.086	10.9788	109.8
7 p37d2507	923.79.7	10 µg/L	Standard	10,000	8.33	10721.331	bb	0 10721.331	9.4256	94.3
8 p37d2508	923.79.8	20 µg/L	Standard	10,000	8.30	10445.627	bb	0 10445.627	9.1832	91.8
9 p37d2509	923.79.1	Blank	Blank	10,000	8.33	9890.509	bb	0 9890.509	8.6951	87.0
10 p37d2510	923.79.10	2 µg/L ICV	QC	10,000	8.33	11176.792	bb	0 11176.792	9.8260	98.3
11 p37d2511	923.79.3	0.5 µg/L RLV	QC	10,000	8.30	12480.418	bb	0 12480.418	10.9720	109.7
12 p37d2533	923.79.5	2 µg/L CCV	QC	10,000	8.24	10509.598	bb	0 10509.598	9.2394	92.4
13 p37d2534	JVEKE1AA	R7D240000-515 MB	Blank	10,000	8.24	7151.678	bb	0 7151.678	6.2873	62.9
14 p37d2535	JVEKE1AC	R7D240000-515 L...	QC	10,000	8.24	7557.958	bb	0 7557.958	6.6445	66.4
15 p37d2536	JVEKE1AD	R7D240000-515 L...	QC	10,000	8.30	5380.769	bb	0 5380.769	4.7305	47.3
16 p37d2537	JT6V01AA	D7D180342-001	Analyte	10,000	8.27	6783.595	bb	0 6783.595	5.9637	59.6
17 p37d2538	JT6V11AA	D7D180342-002	Analyte	10,000	8.27	8099.259	bb	0 8099.259	7.1204	71.2
18 p37d2539	JT6V21AA	D7D180342-003	Analyte	10,000	8.24	7806.280	bb	0 7806.280	6.8628	68.6
19 p37d2540	JT6V31AA	D7D180342-004	Analyte	10,000	8.19	9393.114	bb	0 9393.114	8.2579	82.6
20 p37d2541	JT6V41AA	D7D180342-005	Analyte	10,000	8.24	10133.093	bb	0 10133.093	8.9084	89.1
21 p37d2542	923.79.4	1 µg/L CCV	QC	10,000	8.24	10097.919	bb	0 10097.919	8.8775	88.8
22 p37d2562	923.79.1	Blank	Blank	10,000	8.24	10543.887	bb	0 10543.887	9.3575	93.6
23 p37d2563	923.79.2	0.2 µg/L	QC	10,000	8.21	10021.992	bb	0 10021.992	8.8107	88.1
24 p37d2564	923.79.3	0.5 µg/L	QC	10,000	8.21	11909.618	bb	0 11909.618	10.4702	104.7
25 p37d2565	923.79.4	1 µg/L	QC	10,000	8.19	10263.706	bb	0 10263.706	9.0232	90.2
26 p37d2566	923.79.5	2 µg/L	QC	10,000	8.19	10157.976	bb	0 10157.976	8.9303	89.3
27 p37d2567	923.79.6	5 µg/L	QC	10,000	8.21	9934.720	bb	0 9934.720	8.7340	87.3
28 p37d2568	923.79.7	10 µg/L	QC	10,000	8.16	9984.450	bb	0 9984.450	8.7777	87.8
29 p37d2569	923.79.8	20 µg/L	QC	10,000	8.16	10014.320	bb	0 10014.320	8.8040	88.0

Analyst: Mark Dymerski

STL Der

Page 10 of 10

Dataset: C:\MassLynx\PF0A.PRO\p137d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Compound name: PFOS 13C4

[illegible]

Analyst: Mark Dymerski

STL Denver

PFOA Analysis

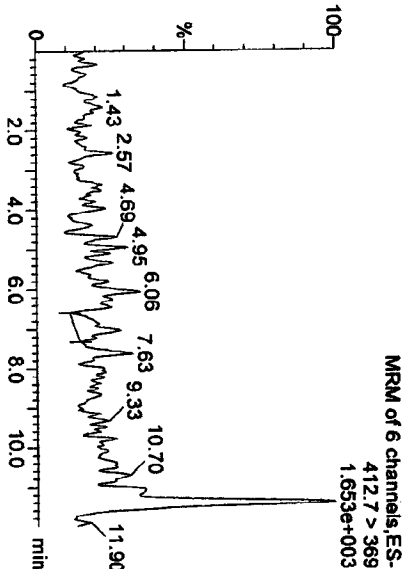
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

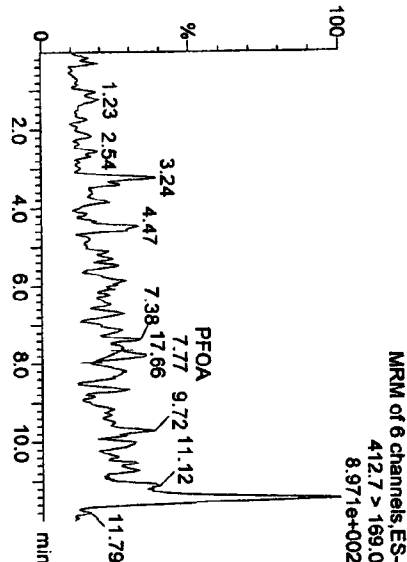
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2534, Date: 26-Apr-2007, Time: 00:17:18, ID: JVKEK1AA, Description: R7D240000-515 MB

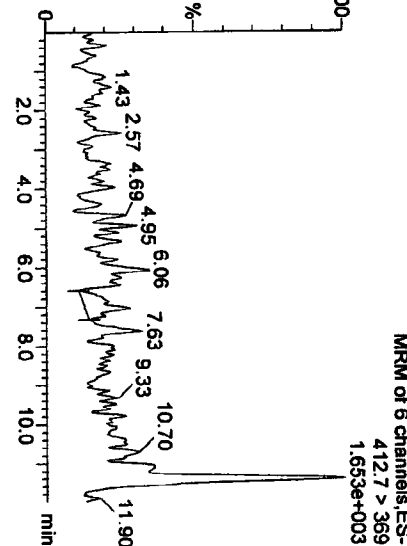
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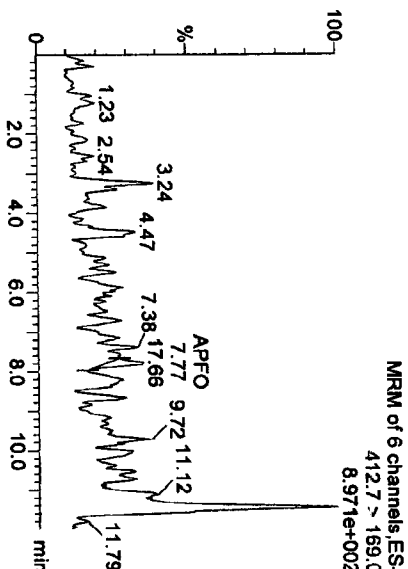
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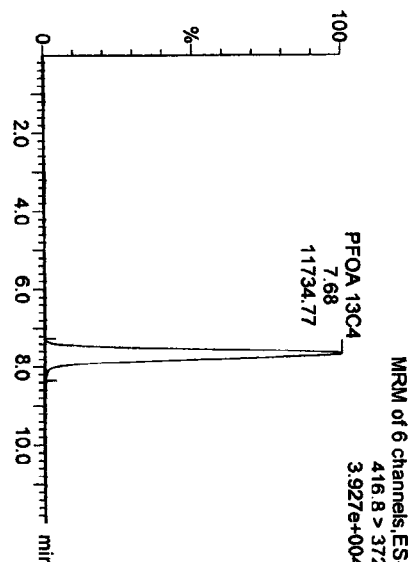
APFO



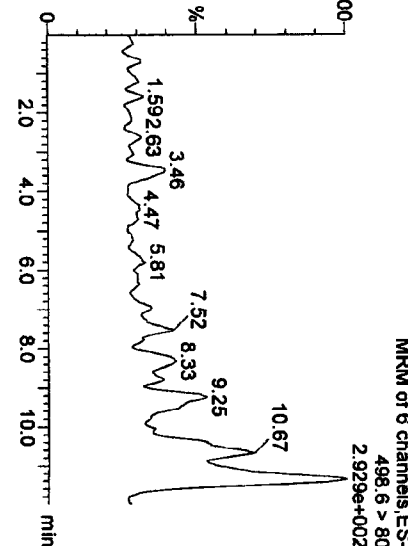
APFO



PFOA 13C4



PFOs

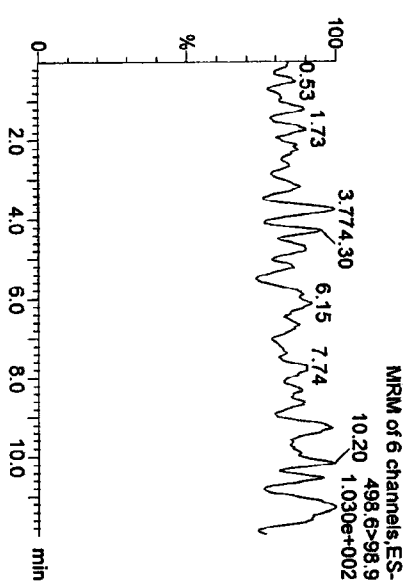


PFOA Analysis

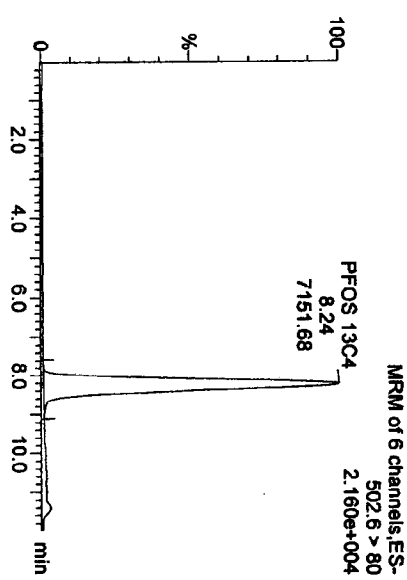
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 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2534, Date: 26-Apr-2007, Time: 00:17:18, ID: JVKEK1AA, Description: R7D240000-516 MB

PFOs



PFOs 13C4



Name	RT	Area	Height	15-Abs	IS	Response	Conc	Calculated	Monitored	Chloride
1 PFOA	7.04	86.031	bb	11734.774	3	0.073	0.001			
2 APFO	7.04	86.031	bb	11734.774	3	0.073	0.002			
3 PFOA 13C4	7.68	11734.774	bb		0	11734.774	6.802	68.0		
4 PFOs				7151.678	5					
5 PFOs 13C4	8.24	7151.678	bb		0	7151.678	6.287	62.9		

PFOA Analysis

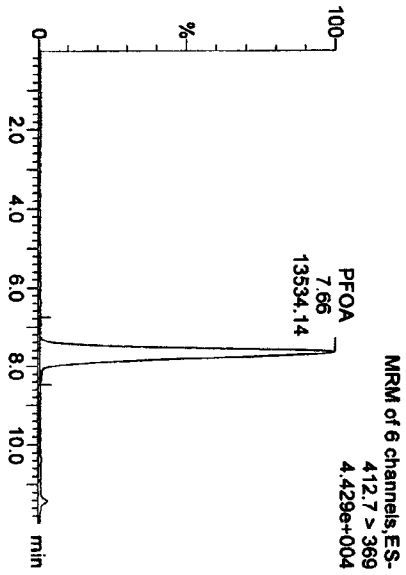
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

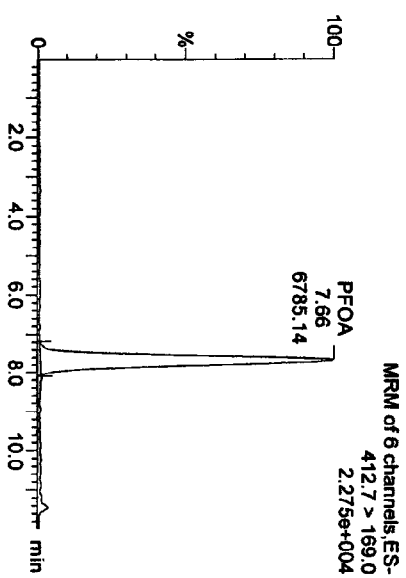
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: p37d2535, Date: 26-Apr-2007, Time: 00:30:17, ID: JVKEK1AC, Description: RTD24000-515 LCS

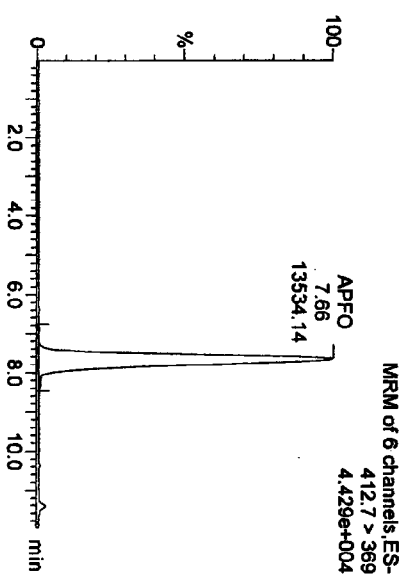
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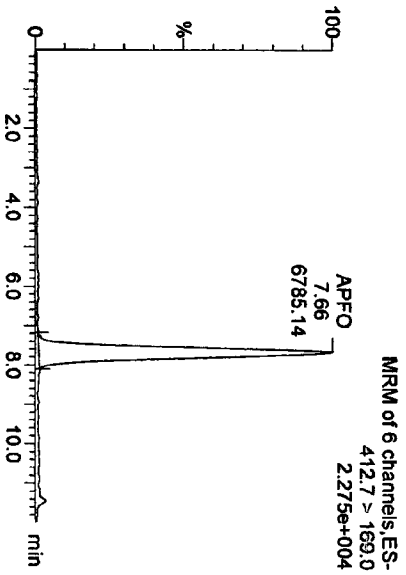
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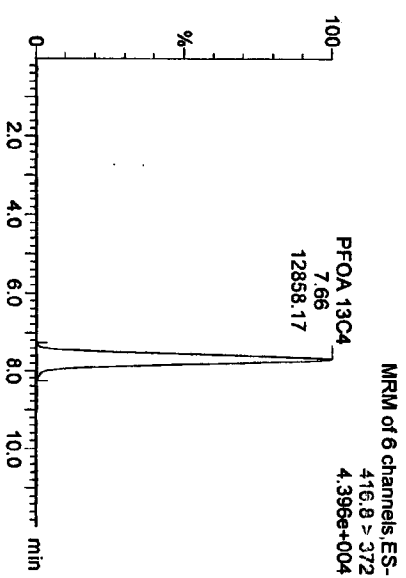
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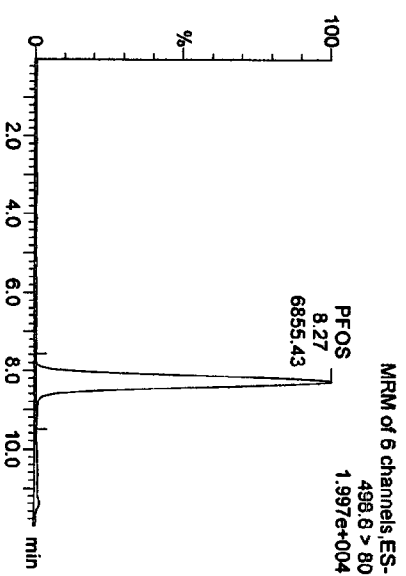
APFO



PFOA 13C4



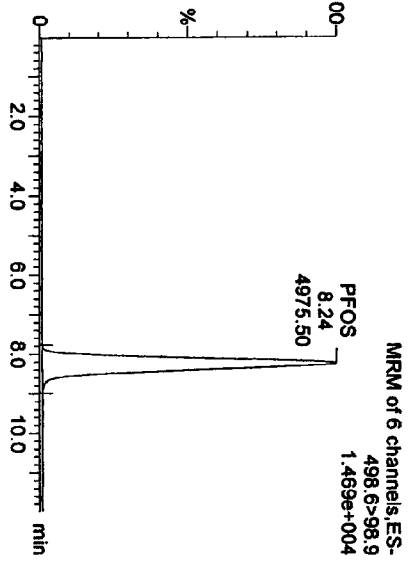
PFOs



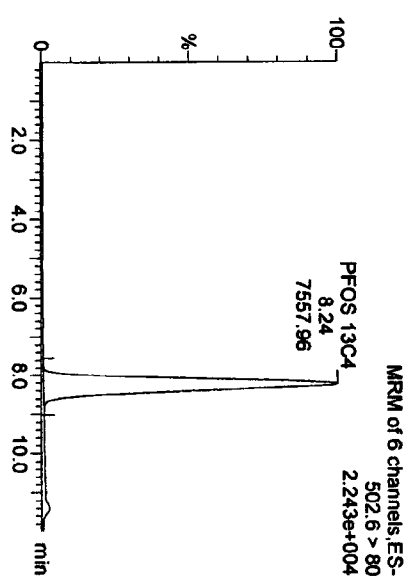
PFOA Analysis
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 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2535, Date: 26-Apr-2007, Time: 00:30:17, ID: JVKEK1AC, Description: R7D240000-515 LCS

PFO



PFO 13C4



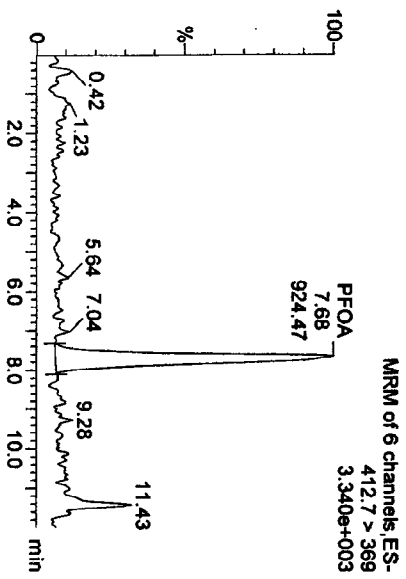
Name	RT	Area	Height	Area%	Height%	Area	Height	Area%	Height%
1 PFOA	7.66	13534.138	bb	12858.166	3	10.526	0.240	120.2	
2 APFO	7.66	13534.138	bb	12858.166	3	10.526	0.250	120.2	
3 PFOA 13C4	7.66	12858.166	bb	0	12858.166	7.454	74.5		
4 PFO	8.27	6855.432	bb	7557.958	5	9.070	0.180	90.1	
5 PFO 13C4	8.24	7557.958	bb	0	7557.958	6.645	66.4		

PFOA Analysis
 Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld
 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

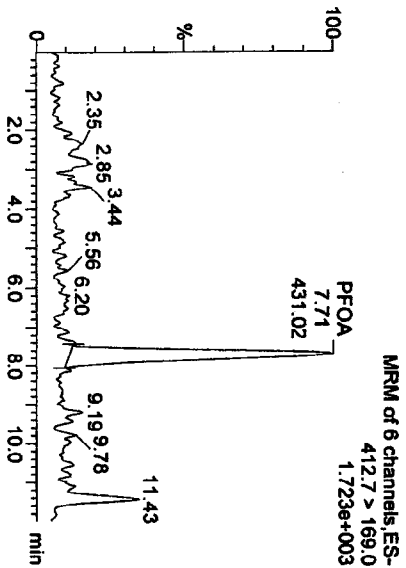
88

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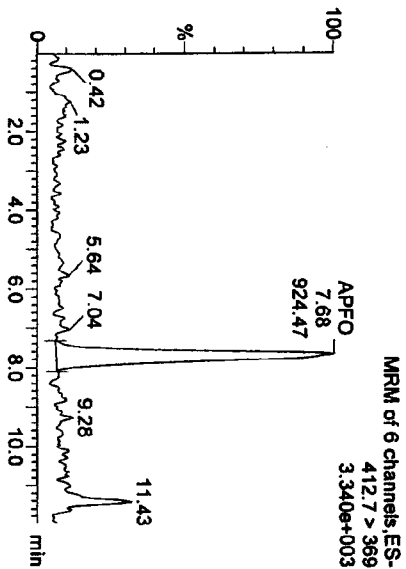
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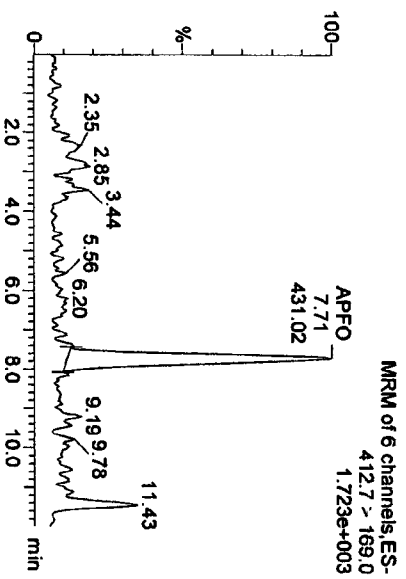
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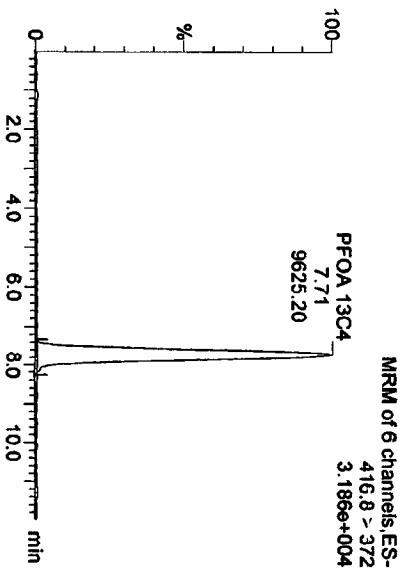
APFO



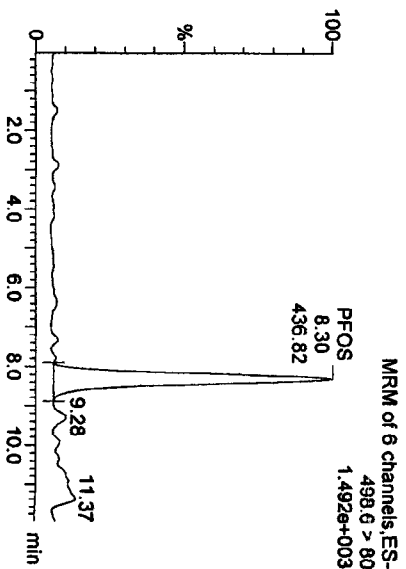
APFO



PFOA 13C4



PFOs



Quantity Sample Report Masslynx 4.1

PFOA Analysis

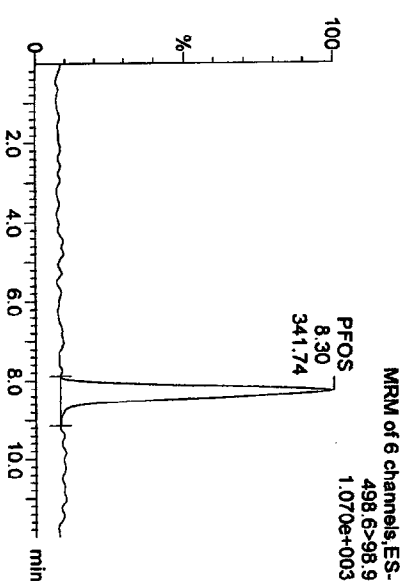
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

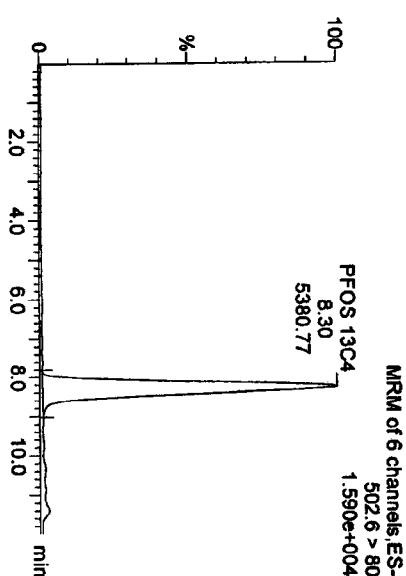
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Name: pf37d2536, Date: 26-Apr-2007, Time: 00:43:12, ID: JVKEK1AD, Description: R7D240000-616 LCS

PFOA



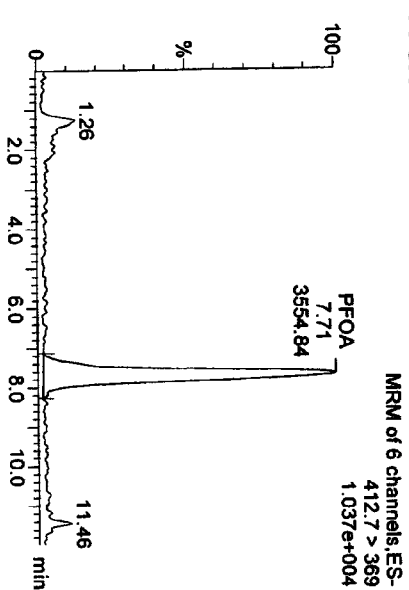
PFOA 13C4



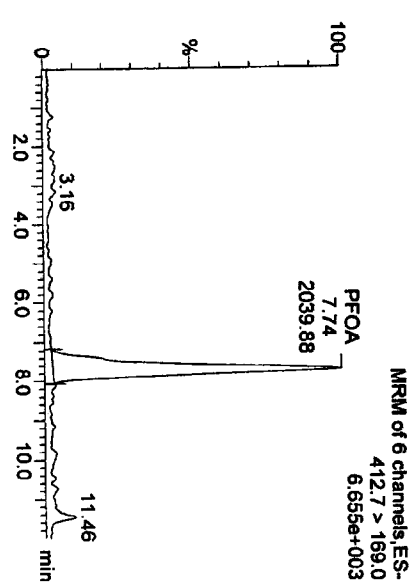
Name	Area	Height	Response	Area	Height	Response
1 PFOA	7.68	924.474	bb	9625.200	3	0.960
2 APFO	7.68	924.474	bb	9625.200	3	0.960
3 PFOA 13C4	7.71	9625.200	bb	0	9625.200	5.580
4 PFOA	8.30	436.819	bb	5380.769	5	0.812
5 PFOA 13C4	8.30	5380.769	bb	0	5380.769	4.730

Name: p37d2537, Date: 26-Apr-2007, Time: 00:56:10, ID: JT6V01AA, Description: D7D180342-001

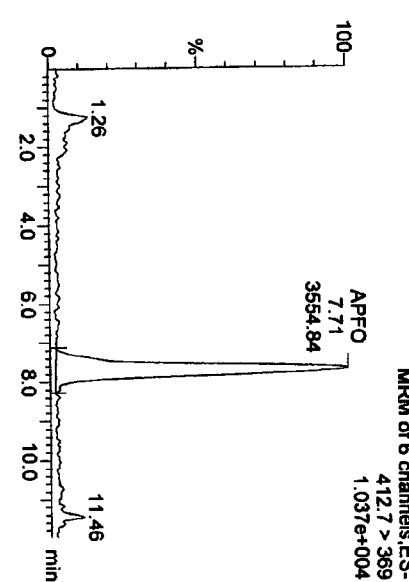
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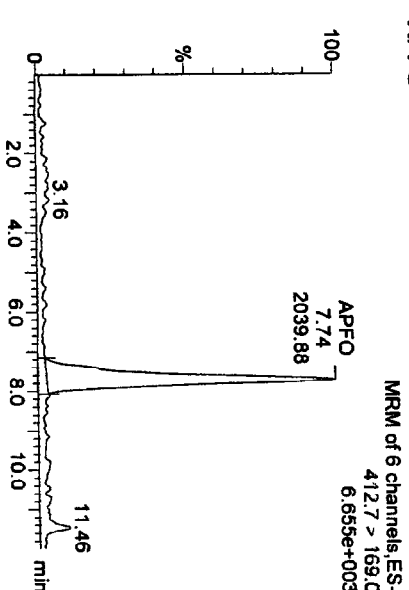
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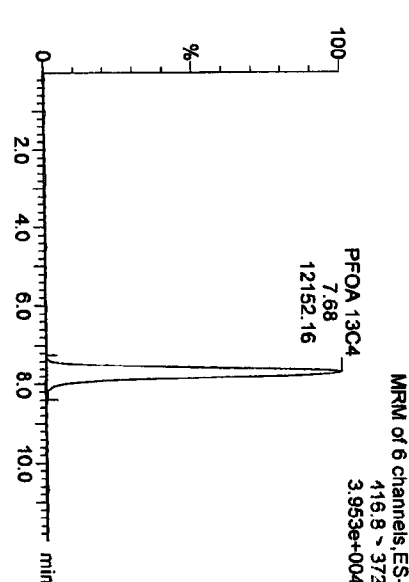
APFO



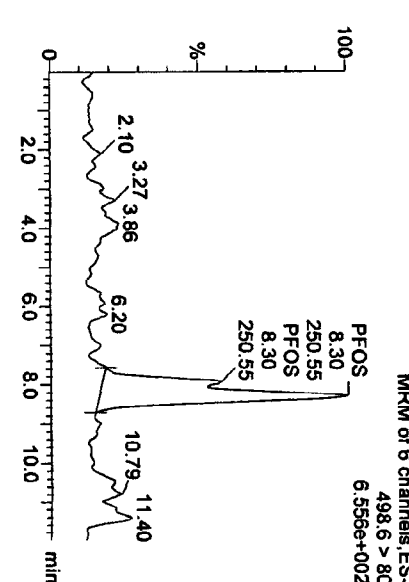
APFO



PFOA 13C4



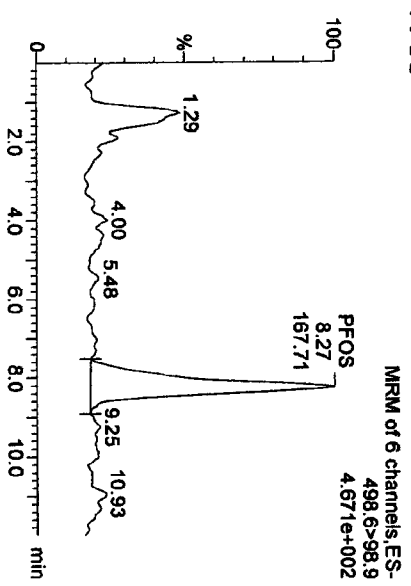
PFOS



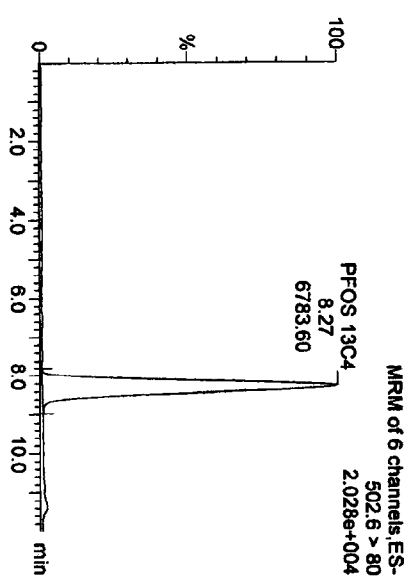
PFOA Analysis
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 Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time
 Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2537, Date: 26-Apr-2007, Time: 00:56:10, ID: JT6V01AA, Description: D7D180342-001

PFOA



PFOA 13C4



Name	Area	Flags	Ref. Mod. (m/z)	Ref. Mod. (m/z)	Ref. Mod. (m/z)
1 PFOA	7.71	3554.841	bb	12152.161	3
2 APFO	7.71	3554.841	bb	12152.161	3
3 PFOA 13C4	7.68	12152.161	bb	12152.161	0
4 PFOA	8.30	250.550	bb	6783.595	5
5 PFOA 13C4	8.27	6783.595	bb	6783.595	0

PFOA Analysis

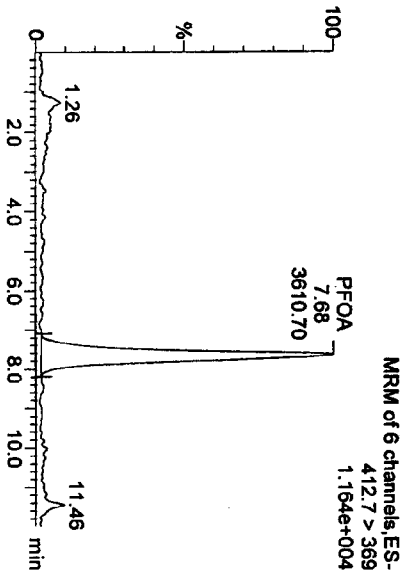
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

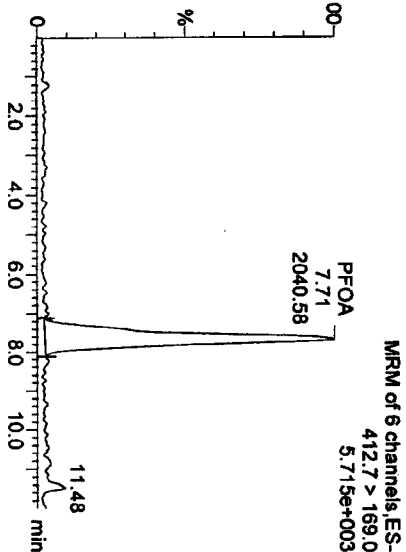
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2538, Date: 26-Apr-2007, Time: 01:09:07, ID: JT6V11AA, Description: D7D180342-002

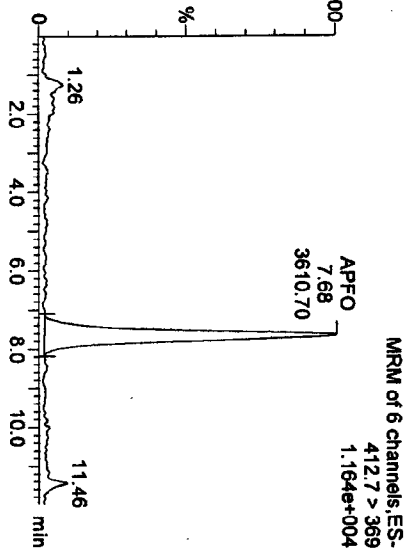
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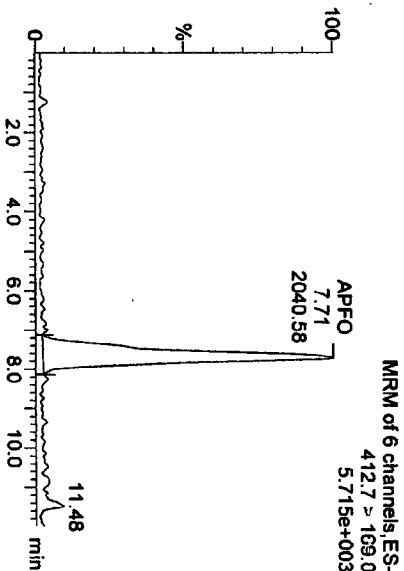
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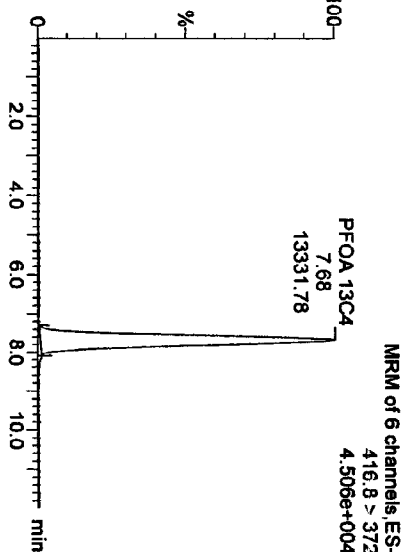
APFO



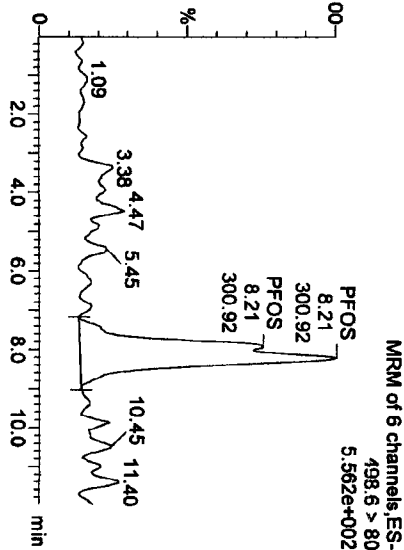
APFO



PFOA 13C4



PFOS



PFOA Analysis

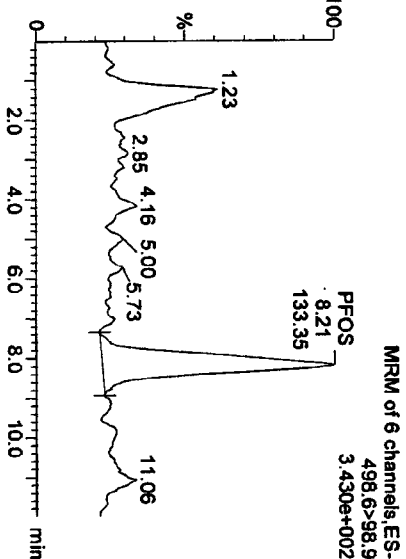
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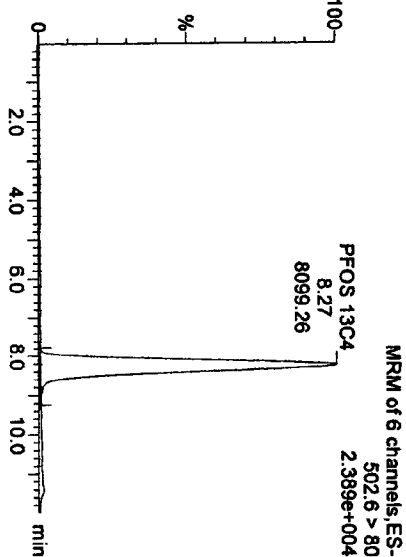
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2538, Date: 26-Apr-2007, Time: 01:09:07, ID: JT6V11AA, Description: D7D180342-002

PFOA



PFOA 13C4



Peak	Time	Area	Height	IS	Response	Count	Height	Count
1 PFOA	7.68	3610.696	bb	13331.781	3	2.708	0.061	✓
2 APFO	7.68	3610.696	bb	13331.781	3	2.708	0.064	✓
3 PFOA 13C4	7.68	13331.781	bb	13331.781	0	13331.781	7.728	✓
4 PFOA	8.21	300.915	bb	8099.259	5	0.372	0.007	✓
5 PFOA 13C4	8.27	8099.259	bb	8099.259	0	8099.259	7.120	✓

PFOA Analysis

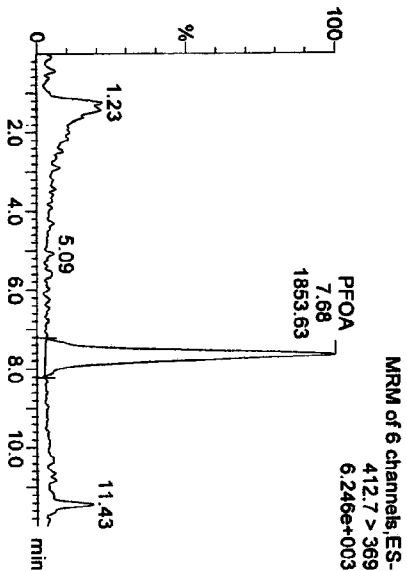
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

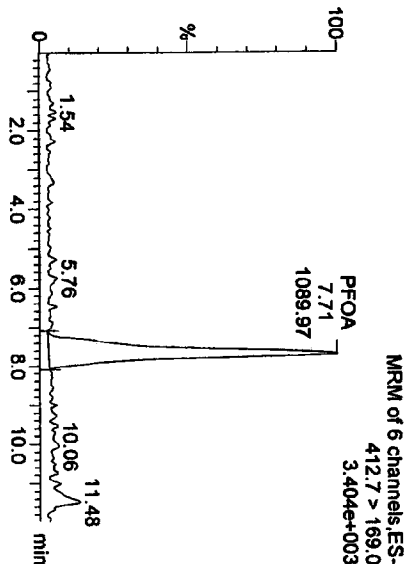
Printed: Friday, April 27, 2007 10:24:05 AM Mountain Daylight Time

Name: pf37d2539, Date: 26-Apr-2007, Time: 01:22:03, ID: JT6V21AA, Description: D7D180342-003

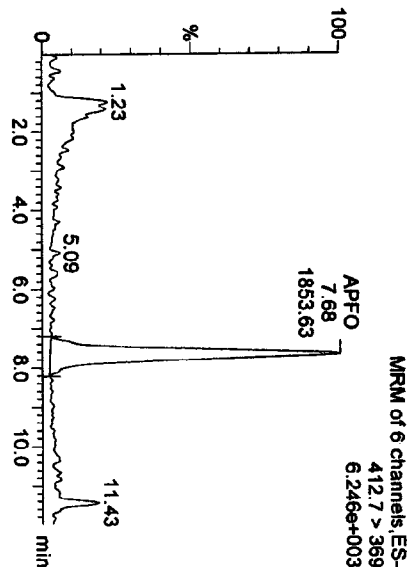
PFOA



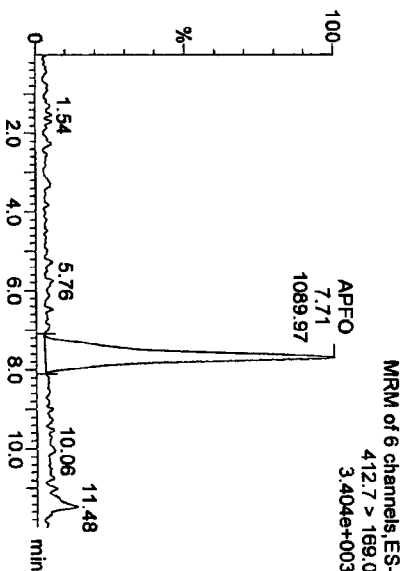
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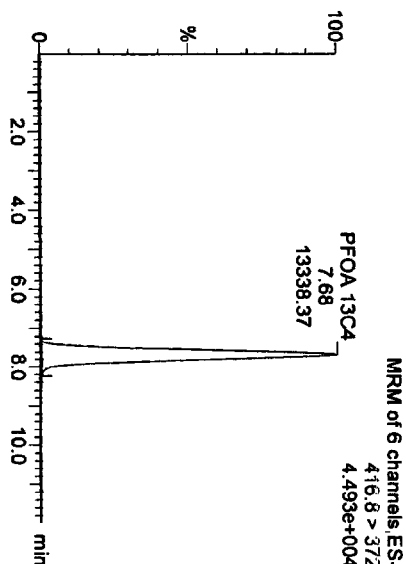
APFO



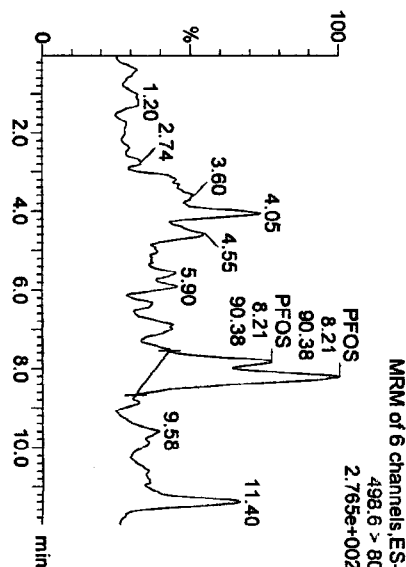
APFO



PFOA 13C4



PFOs



PFOA Analysis

Dataset: C:\Masslynx\PFOA.PRO\pf37d252.qld

Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

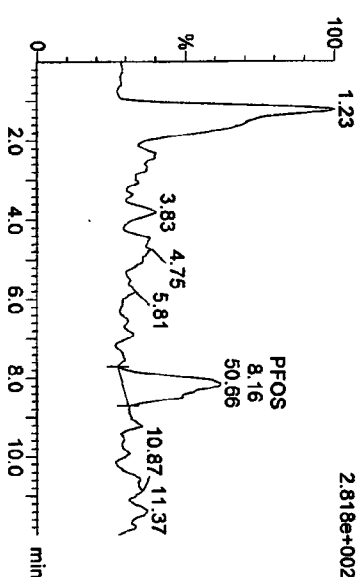
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PFOA

MRM of 6 channels, ES-

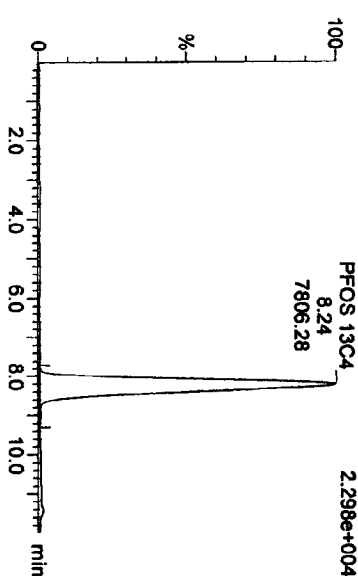
498.6>98.9
2.818e+002



PFOA 13C4

MRM of 6 channels, ES-

502.6 > 80
2.298e+004



Peak	Area	Flags	IS	Ratio	Conc	Ref	Conc
1 PFOA	7.68	1853.626	bb	13338.372	3	1.390	0.029
2 APFO	7.68	1853.626	bb	13338.372	3	1.390	0.031
3 PFOA 13C4	7.68	13338.372	bb	0	0	13338.372	7.732
4 PFOA	8.21	90.375	bb	7806.280	5	0.116	0.002
5 PFOA 13C4	8.24	7806.280	bb	0	0	7806.280	6.863

PFOA Analysis

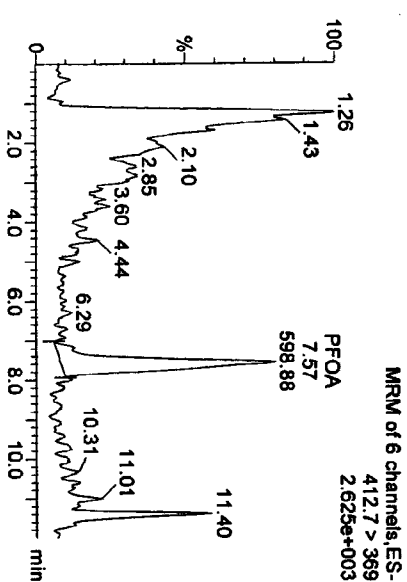
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Last Altered: Friday, April 27, 2007 10:20:34 AM Mountain Daylight Time

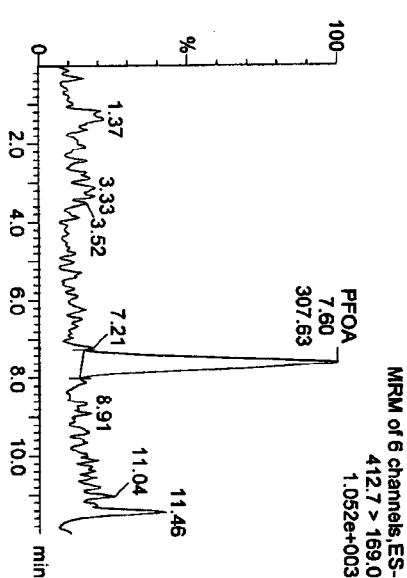
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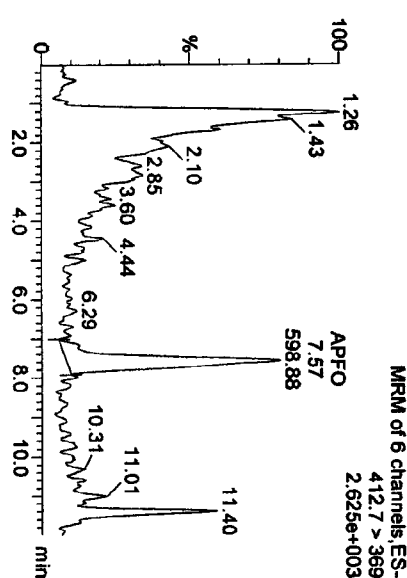
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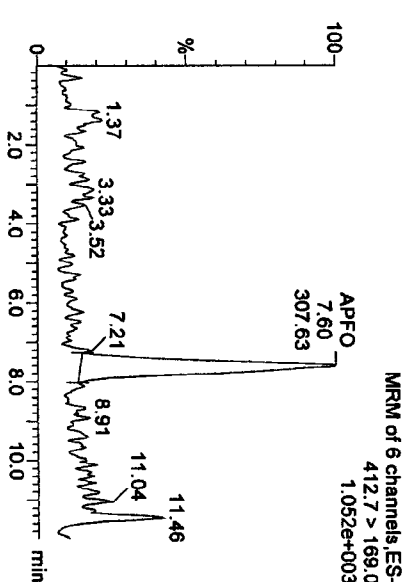
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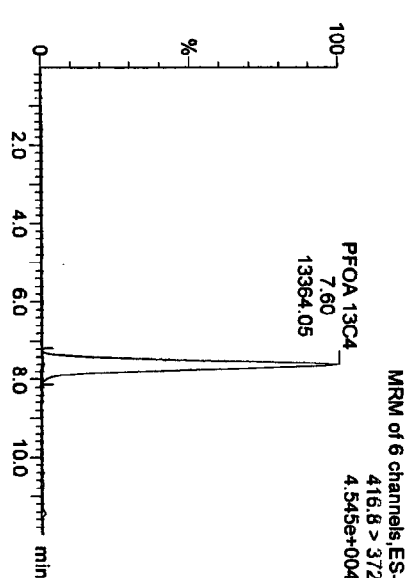
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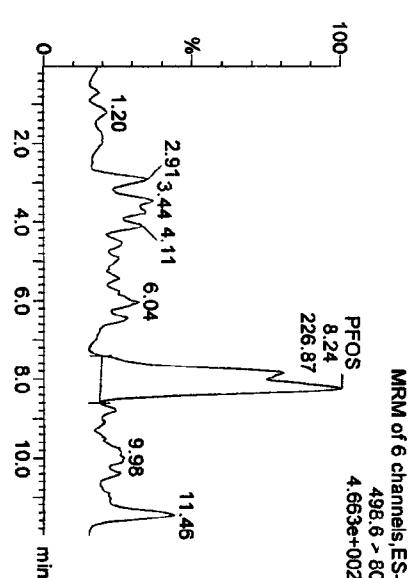
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PFOA 13C4



PFOs



PFOA Analysis

Dataset: C:\MassLynx\PFOA.PRO\p37d252.qld

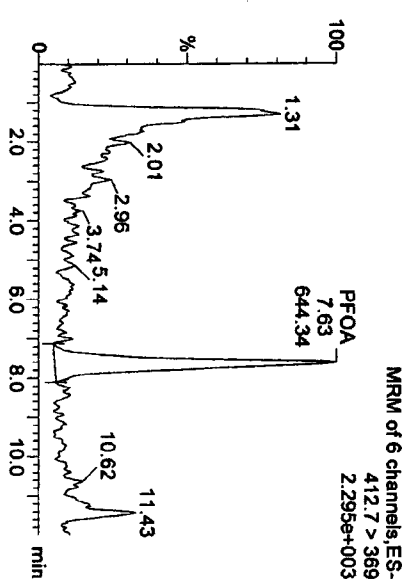
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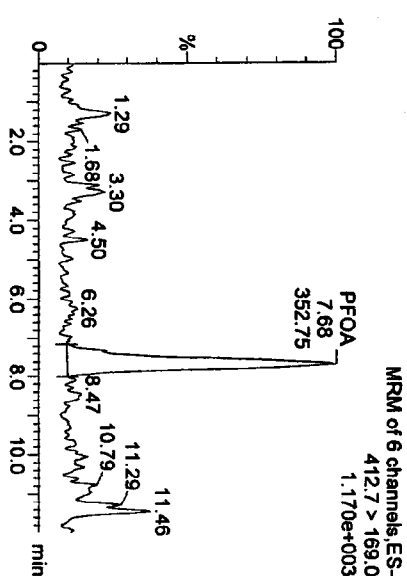
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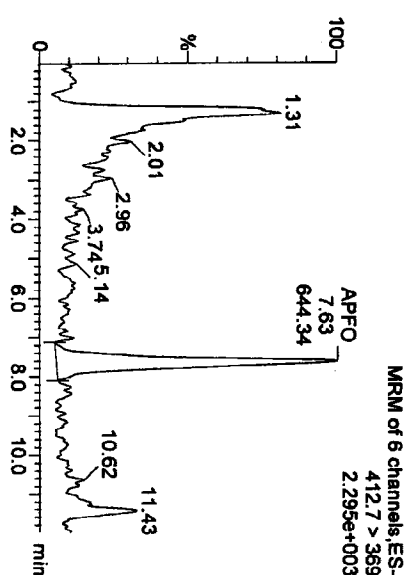
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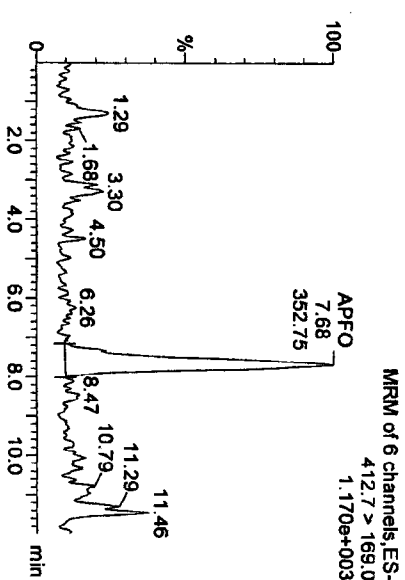
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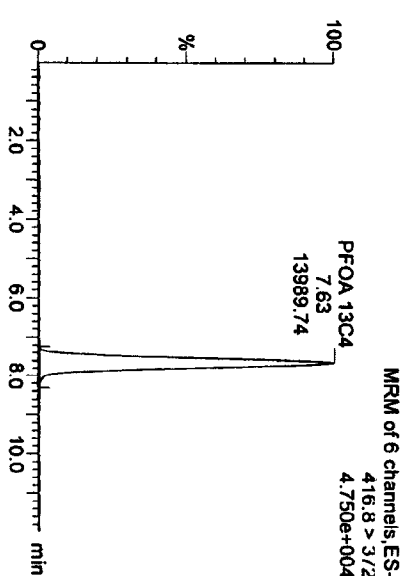
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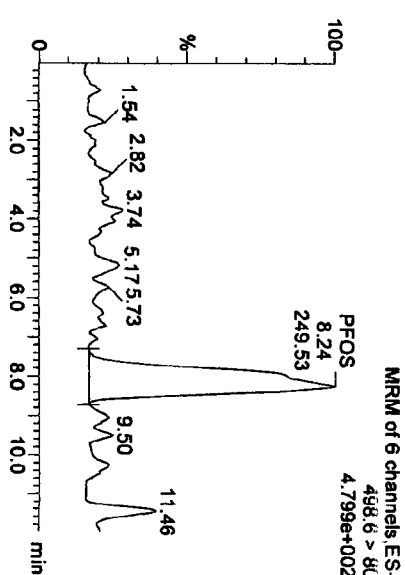
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PFOA 13C4



PFOA

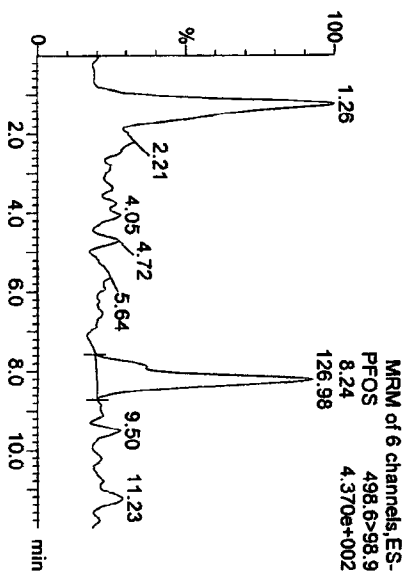


PFOA Analysis

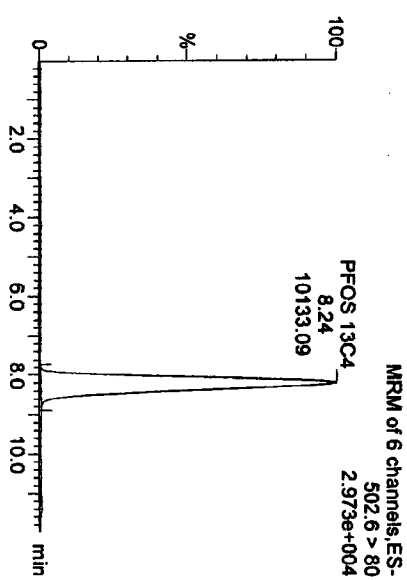
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Name: pf37d2541, Date: 26-Apr-2007, Time: 01:47:57, ID: JT6V41AA, Description: D7D180342-005

PFOA



PFOA 13C4



Name	Area	Height	IS Area	Height	Ratio	Height	Ratio
1 PFOA	7.63	644.344	bb	13989.743	3	0.461	0.010
2 APFO	7.63	644.344	bb	13989.743	3	0.461	0.010
3 PFOA 13C4	7.63	13989.743	bb	13989.743	0	13989.743	8.110
4 PFOA	8.24	249.530	bb	10133.093	5	0.246	0.005
5 PFOA 13C4	8.24	10133.093	bb	10133.093	0	10133.093	8.908