## RAW DATA REPORT

| | | | | | |
|---|---|---|---|---|---|
| Sponsor Study No: | NA | Limit of Quantitation: | 10 ng/g | Set No: | 110409B |
| MPI Study No: | L19345 | Injection Volume: | 15 µL | Analyst: | Mark Neeley |
| Analyte: | PFOA | Matrix: | Deer Liver | Instrument Type: | LC/MS/MS Unit # 9 |
| Ions Monitored: | 413 -> 369 | Sample Weight | 1.0 g | Extraction Date: | 11/04/09 |
| Site: | NA | | | Analyzed on: | 11/04/09 |

| MPI Research ID | Sponsor ID | Sample Code | Sample Index No. | Std. Conc. (ng/mL) | Internal Std. Conc. (ng/mL) | Aliquot Factor (AF) | Dilution Factor (DF) | Peak Area | Internal Standard Peak Area | Analyte Found (ng/g) | Amount Analyte Added (ng/g) | Recovery (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SS33618 | - | CS | 1 | 0.100 | 1.0 | - | - | 53597 | 577500 | - | - | - |
| SS33617 | - | CS | 2 | 0.200 | 1.0 | - | - | 98503 | 579686 | - | - | - |
| SS33616 | - | CS | 3 | 0.500 | 1.0 | - | - | 241646 | 576930 | - | - | - |
| SS33615 | - | CS | 4 | 1.00 | 1.0 | - | - | 497339 | 574994 | - | - | - |
| SS33614 | - | CS | 5 | 2.00 | 1.0 | - | - | 991146 | 562820 | - | - | - |
| SS33613 | - | CS | 6 | 5.00 | 1.0 | - | - | 2306721 | 578839 | - | - | - |
| Methanol Wash | - | W | 7 | - | - | - | - | 826 | 0 | - | - | - |
| Methanol Wash | - | W | 8 | - | - | - | - | 1213 | 0 | - | - | - |
| Control | MC4313 Deer Liver Control | C | 9 | - | 1.0 | 20 | 1 | 6297 | 631451 | ND | - | - |
| LCS A | MC4313 Deer Liver Spike A | LCS | 10 | - | 1.0 | 20 | 1 | 271696 | 641244 | 10.0 | 10 | 100 |
| LCS B | MC4313 Deer Liver Spike B | LCS | 11 | - | 1.0 | 20 | 1 | 1378436 | 664454 | 50.3 | 50 | 101 |
| L19346-4 Spk C | Deer # 7 3.5 yr male-liver Spike C | LF | 12 | - | 1.0 | 20 | 1 | 1215134 | 562757 | 52.4 | 50 | 105 |
| L19346-2 Spk D | Deer # 6 0.5 yr female-liver Spike D | LF | 13 | - | 1.0 | 20 | 1 | 1371578 | 660270 | 50.4 | 50 | 101 |
| L19346-4 | Deer # 7 3.5 yr male-liver | S | 14 | - | 1.0 | 20 | 1 | 16855 | 609540 | ND | - | - |
| L19346-4 Dup | Deer # 7 3.5 yr male-liver Duplicate | S | 15 | - | 1.0 | 20 | 1 | 15080 | 570446 | ND | - | - |
| L19346-2 | Deer # 6 0.5 yr female-liver | S | 16 | - | 1.0 | 20 | 1 | 9470 | 660125 | ND | - | - |
| L19346-2 Dup | Deer # 6 0.5 yr female-liver Duplicate | S | 17 | - | 1.0 | 20 | 1 | 9261 | 621722 | ND | - | - |
| SS33615 | - | CCV | 18 | 1.00 | 1.0 | - | - | 465569 | 549065 | 1.02 | 1.0 | 102 |

Analyte Found (ng/g) = ((((analyte peak area/IS peak area) - intercept) / slope) x IS conc.) x AF x DF/Sample weight

Recovery (%) = $\frac{\text{[Analyte found (ng/g)-Analyte found in control (ng/g)]}}{\text{amount Analyte added (ng/g)}} \times 100$

Standard Curve : Linear (1/x weighted)
Intercept = 0.0127
Slope = 0.82
Coef. Of Det. = 0.9978

CS = Calibration standard
CCV = Continuing Calibration Verification
C = Control sample
S = Sample

LF = Lab fortified sample
FF = Field fortified sample
LCS = Laboratory Control Spike

W = Methanol Wash
ND = Not detected = Response between 0 and LOD
NQ = Not quantifiable = Response between LOD and LOQ

Spreadsheet prepared by: MNN / 11-6-09

# RAW DATA REPORT

| | | | | | |
|---|---|---|---|---|---|
| Sponsor Study No: | NA | Limit of Quantitation: | 10 ng/g | Set No: | 110409B |
| MPI Study No: | L19345 | Injection Volume: | 15 µL | Analyst: | Mark Neeley |
| Analyte: | PFOS | Matrix: | Deer Liver | Instrument Type: | LC/MS/MS Unit # 9 |
| Ions Monitored: | 499 -> 80 | Sample Weight | 1.0 g | Extraction Date: | 11/04/09 |
| Site: | NA | | | Analyzed on: | 11/04/09 |

| MPI Research ID | Sponsor ID | Sample Code | Sample Index No. | Std. Conc. (ng/mL) | Internal Std. Conc. (ng/mL) | Extraction Aliquot Factor | Dilution Factor | Peak Area | Internal Standard Peak Area | Analyte Found (ng/g) | Amount Analyte Added (ng/g) | Recovery (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SS33618 | - | CS | 1 | 0.100 | 1 | - | - | 37064 | 326535 | - | - | - |
| SS33617 | - | CS | 2 | 0.200 | 1 | - | - | 73957 | 336348 | - | - | - |
| SS33616 | - | CS | 3 | 0.500 | 1 | - | - | 178457 | 328571 | - | - | - |
| SS33615 | - | CS | 4 | 1.00 | 1 | - | - | 364151 | 322059 | - | - | - |
| SS33614 | - | CS | 5 | 2.00 | 1 | - | - | 724285 | 326736 | - | - | - |
| SS33613 | - | CS | 6 | 5.00 | 1 | - | - | 1715083 | 319901 | - | - | - |
| Methanol Wash | - | W | 7 | - | - | - | - | 0 | 0 | - | - | - |
| Methanol Wash | - | W | 8 | - | - | - | - | 0 | 0 | - | - | - |
| Control | MC4313 Deer Liver Control | C | 9 | - | 1 | 20 | 1 | 231690 | 257737 | 16.5 | - | - |
| LCS A | MC4313 Deer Liver Spike A | LCS | 10 | - | 1 | 20 | 1 | 362607 | 253871 | 26.3 | 10 | 98 |
| LCS B | MC4313 Deer Liver Spike B | LCS | 11 | - | 1 | 20 | 1 | 853788 | 256309 | 61.6 | 50 | 90 |
| L19346-4 Spk C | Deer # 7 3.5 yr male-liver Spike C | LF | 12 | - | 1 | 20 | 1 | 15987030 | 154898 | ** | 50 | ** |
| L19346-2 Spk D | Deer # 6 0.5 yr female-liver Spike D | LF | 13 | - | 1 | 20 | 1 | 7183644 | 239591 | ** | 50 | ** |
| L19346-4 | Deer # 7 3.5 yr male-liver | S | 14 | - | 1 | 20 | 1 | 16246768 | 161301 | * | - | - |
| L19346-4 Dup | Deer # 7 3.5 yr male-liver Duplicate | S | 15 | - | 1 | 20 | 1 | 15725840 | 156275 | * | - | - |
| L19346-2 | Deer # 6 0.5 yr female-liver | S | 16 | - | 1 | 20 | 1 | 7071986 | 248805 | * | - | - |
| L19346-2 Dup | Deer # 6 0.5 yr female-liver Duplicate | S | 17 | - | 1 | 20 | 1 | 7080835 | 230955 | * | - | - |
| SS33615 | - | CCV | 18 | 1.00 | 1 | - | - | 353088 | 327693 | 0.992 | 1.00 | 99 |

Analyte Found (ppb) = ((((analyte peak area/IS peak area) - intercept) / slope) x IS conc.) x DF

Recovery (%) = $\frac{\text{[Analyte found (ng/g)-Analyte found in control (ng/g)]}}{\text{amount Analyte added (ng/g)}} \times 100$

Standard Curve : Linear (1/x weighted)
Intercept = 0.00662
Slope = 1.08
Coef. Of Det. = 0.9996

CS = Calibration standard
CCV = Continuing Calibration Verification
C = Control sample
S = Sample

LF = Lab fortified sample
FF = Field fortified sample
LCS = Laboratory Control Spike

W = Methanol Wash
ND = Not detected = Response between 0 and LOD
NQ = Not quantifiable = Response between LOD and LOQ

* Sample response exceeds the calibration range, dilution required, see set no 110509B for analysis

** The endogenous level of PFOS in the sample significantly exceeds the spiking level, therefore an accurate recovery cannot be calculated. The sample was fortified at a higher level and was re-extracted and re-analyzed, see set no. 110509B for analysis.

Spreadsheet prepared by: MDH / 11-6-09

MPI RESEARCH

3058 Research Drive
State College, PA 16801

Phone: 814-272-1039
Fax: 814-231-1580

# Internal Chain of Custody/Fortification Sheet

MPI Reseach Study Number: L19346 Matrix: Deer Liver
Sponsor Study/Protocol No: NA

The samples listed below were removed from Freezer No. 36
Time 9:25 AM Date 11-4-09 Initials MDN

| CLIENT SAMPLE ID | MPI RESEARCH ID NUMBER | WEIGHT (g) | FORTIFICATION (ng) |
|---|---|---|---|
| na | MC4313 Control | 1.0 | - |
| na | MC4313 LCS A | 1.0 | 10 |
| na | MC4313 LCS B | 1.0 | 50 |
| Deer #7 3.5 yr male-liver | L19346-4 Spk C | 1.0 | 50 |
| Deer #6 0.5 yr female-liver | L19346-2 Spk D | 1.0 | 50 |
| Deer #6 0.5 yr female-liver | L19346-2 | 1.0 | - |
| Deer #6 0.5 yr female-liver | L19346-2 Dup | 1.0 | - |
| Deer #7 3.5 yr male-liver | L19346-4 | 1.0 | - |
| Deer #7 3.5 yr male-liver | L19346-4 Dup | 1.0 | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

| | Spiking Solution Used | | Volume Used for Spiking | Initial/Date |
|---|---|---|---|---|
| MC4313 LCS A | SS0033620 | (200 ng/mL) | 50 µL (50-250µL auto-pipette) | MDN / 11-4-09 |
| MC4313 LCS B | SS0033619 | (1000 ng/mL) | 50 µL (50-250µL auto-pipette) | MDN / 11-4-09 |
| L19346-4 Spk C | SS0033619 | (1000 ng/mL) | 50 µL (50-250µL auto-pipette) | MDN / 11-4-09 |
| L19346-2 Spk D | SS0033619 | (1000 ng/mL) | 50 µL (50-250µL auto-pipette) | MDN / 11-4-09 |
| All Samples | SS0032652 | (100 ng/mL) | 200 µL (50-250µL auto-pipette) | MDN / 11-4-09 |

All samples were weighed on balance 20.
Time ~~9:26~~ 9:26 AM Date 11-4-09 Initials MDN
(9) MDN 11-4-09
After weighing samples were returned to Freezer No. 36
Time 9:39 AM Date 11-4-09 Initials MDN

**Comments:**

**Analysis Summary:**

Data Set: 110409B Initials/Date: MDN / 11-4-09
Data Set: 110509B Initials/Date: MDN / 11-5-09
Data Set: - Initials/Date: - / -

Set extraction/analysis data verified by: AMB Date: 11/09/09

MPI RESEARCH

3058 Research Drive
State College, PA 16801

Phone: 814-272-1039
Fax: 814-231-1580

# SAMPLE EXTRACTION AND ANALYSIS TRACKING SHEET

MPI STUDY NUMBER: L19346
MATRIX: Deer Liver

METHOD: V5821
ANALYTES: PFOA & PFOS

PROTOCOL NUMBER: NA

| Client ID | MPI Research ID | STEP 1 | STEP 2 | STEP 3 | STEP 4 | STEP 5 | STEP 6 | Dilutions (mL/mL) | STEP 7 | Dilutions (mL/mL) | STEP 8 | Reagents/ Materials | ExyLims ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| na | MC4313 Control | | | | | | | — | | — | — | Acetonitrile | RE47644 |
| na | MC4313 LCS A | | | | | | | — | | — | — | Water | RE47764 |
| na | MC4313 LCS B | | | | | | | — | | — | — | Methanol | RE47875 |
| Deer #7 3.5 yr male-liver | L19346-4 Spk C | | | | | | | — | | — | — | SPE Column | MX2-03313 |
| Deer #6 0.5 yr female-liver | L19346-2 Spk D | | | | | | | — | | — | — | *Initials/Date* | MDN 11-4-09 |
| Deer #6 0.5 yr female-liver | L19346-2 | | | | | | | — | | 0.02/1.0 | | - | - |
| Deer #6 0.5 yr female-liver | L19346-2 Dup | | | | | | | — | | 0.02/1.0 | | - | - |
| Deer #7 3.5 yr male-liver | L19346-4 | | | | | | | — | | 0.01/1.0 | | - | - |
| Deer #7 3.5 yr male-liver | L19346-4 Dup | | | | | | | — | | 0.01/1.0 | | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | **HPLC** | |
| - | - | - | - | - | - | - | - | - | - | - | - | Methanol | RE47880 |
| - | - | - | - | - | - | - | - | - | - | - | - | 2 mM Ammonium Acetate in Water | SL45925 |
| - | - | - | - | - | - | - | - | - | - | - | - | | |
| *Initials/Date | - | MDN 11-4-09 | MDN 11-4-09 | MDN 11-4-09 | MDN 11-4-09 | MDN 11-4-09 | MDN 11-4-09 | — | MDN 11-4-09 | MDN 11-5-09 | MDN 11-5-09 | *Initials/Date* | MDN 11-4-09 |

STEP 1: Weigh 1 g of liver into a 50 mL disposable centrifuge tube and fortify if appropriate. Add 0.2 mL of internal standard (100 ng/mL).
STEP 2: Add water to the sample for a final volume of 10 mL. Homogenize using a tissumizer for ~ 1 minute.
STEP 3: Transfer 1.0 mL of the sample to a 15 mL centrifuge tube. Add 5 mL of ACN and shake for ~20 minutes on a wrist action shaker.
STEP 4: Centrifuge tubes at ~3000 for ~5 minutes. Carefully decant supernatant into a 50 mL disposable centrifuge tube and add 35 mL of water.
STEP 5: SPE Cleanup: Condition column with ~10 mL of methanol followed by ~5 mL of water at a rate of ~1 drop/second. Discard all washes. Do not allow column to go dry.
STEP 6: Load the sample onto the SPE Column. Discard the eluate. Elute with 2 mL of methanol into a 15 mL centrifuge tube. Transfer the extract into autosampler vials.
STEP 7: LC/MS/MS analysis.
STEP 8: LC/MS/MS reanalysis.

*Initials and date under each step indicates the personnel that performed this step.

COMMENTS:

Final extracts stored in refrigerator 34 Initials: MDN Date: 11-4-09

alyst Version: 1.4.2
Printing Time: 2:00:39 PM
Printing Date: Wednesday, November 04, 2009

MPI Study: L19346
MPI Set No.: 110409B

Operator: Mark Neeley
Instrument No.: LC/MS/MS #9

JDN 11-4-09

roject: \\sc1wp5556\mdrive\PE SCIEX DATA\Projects\P5195 Batch:09_110409B Liver Tab:Sample Set:SET1 AcqMethod:P5195_1029(

Sar

| | Sample Name | Sample ID | Vial Position | Data File |
|---|---|---|---|---|
| | SS33618 | Calibration Standard, 0.1 ng/mL | 1 | 09_110409B\110409B |
| 2 | SS33617 | Calibration Standard, 0.2 ng/mL | 2 | 09_110409B\110409B |
| | SS33616 | Calibration Standard, 0.5 ng/mL | 3 | 09_110409B\110409B |
| | SS33615 | Calibration Standard, 1.0 ng/mL | 4 | 09_110409B\110409B |
| 5 | SS33614 | Calibration Standard, 2.0 ng/mL | 5 | 09_110409B\110409B |
| | SS33613 | Calibration Standard, 5.0 ng/mL | 6 | 09_110409B\110409B |
| | Methanol Wash | Methanol Wash | 91 | 09_110409B\110409B |
| 8 | Methanol Wash | Methanol Wash | 91 | 09_110409B\110409B |
| | Control | MC4313 Deer Liver Control | 61 | 09_110409B\110409B |
| .0 | LCS A | MC4313 Deer Liver Spike A, 10 ng/mL | 62 | 09_110409B\110409B |
| 11 | LCS B | MC4313 Deer Liver Spike B, 50 ng/mL | 63 | 09_110409B\110409B |
| 2 | L19346-4 Spk C | Deer # 7 3.5 yr male-liver Spike C, 50 ng/mL | 64 | 09_110409B\110409B |
| 13 | L19346-2 Spk D | Deer # 6 0.5 yr female-liver Spike D, 50 ng/mL | 65 | 09_110409B\110409B |
| 14 | L19346-4 | Deer # 7 3.5 yr male-liver | 66 | 09_110409B\110409B |
| 5 | L19346-4 Dup | Deer # 7 3.5 yr male-liver Duplicate | 67 | 09_110409B\110409B |
| 16 | L19346-2 | Deer # 6 0.5 yr female-liver | 68 | 09_110409B\110409B |
| 17 | L19346-2 Dup | Deer # 6 0.5 yr female-liver Duplicate | 69 | 09_110409B\110409B |
| 8 | 33615 | CCV, 1.0 ng/mL | 4 | 09_110409B\110409B |

t Research, Inc.

# LC/MS/MS SYSTEM AND OPERATING CONDITIONS

Protocol No: NA | MPI Study No: L19346

**Instrument:** AB API 4000 Biomolecular Mass Analyzer, **(LC/MS/MS #9)**
SCIEX Turbo Ion Spray Liquid Introduction Interface
Turbo Ion spray temperature = 450 °C

Computer: Dell OptiPlex GX 110

Software: PE Sciex Analyst 1.4

HPLC Equipment: Hewlett Packard (HP) Series 1100
HP Quat Pump — HP Vacuum Degasser
HP Autosampler — HP Column Oven

HPLC Column: Phenomenex Luna C8 (2) Mercury, 2cm x 4mm, 3 µm (ExyLIMS ID: MA0052622)

Column Temperature: 35°C

Mobile Phase (A): 2 mM Ammonium Acetate in Water (ExyLIMS ID: SL0045925)

Mobile Phase (B): Methanol (ExyLIMS ID: RE0047880)

Injected Volume: 15 µL

| Time (min) | % A | % B | Flow Rate (µL/min) |
|---|---|---|---|
| 0.0 | 90 | 10 | 750 |
| 0.5 | 90 | 10 | 750 |
| 2.0 | 10 | 90 | 750 |
| 5.0 | 10 | 90 | 750 |
| 5.1 | 0 | 100 | 750 |
| 6.0 | 0 | 100 | 750 |
| 6.1 | 90 | 10 | 750 |
| 10.0 | 90 | 10 | 750 |

Ions monitored:

| Analyte | Parent ion | Daughter ion(s) | Dwell (secs) |
|---|---|---|---|
| PFOA | 413 | 369 | 0.200 |
| PFOS | 499 | 80 | 0.200 |
| $^{13}$C PFOA (m+2) Internal Standard | 415 | 370 | 0.200 |
| $^{13}$C PFOS (m+4) Internal Standard | 503 | 80 | 0.200 |

Analyst: Mark Neeley MDN 11-4-09
MPI Research, Inc.
3058 Research Drive, State College, PA 16801
Phone: (814) 272-1039 FAX: (814) 231-1580

All Handwritten Peak ID's by: MDN 11-5-09

MDN 11-4-09

## Acquisition Information:

| | |
|---|---|
| cquisition Method: | P5195_102909.dam |
| reated: | Thursday October 29 2009 09: 35: 12 AM |
| Last Modified: | Friday October 30 2009 10: 56: 20 AM |
| Comment: | PFOA PFOS |
| ynchronization Mode: | LC Sync |
| uto-Equilibration: | Off |
| Acquisition Duration: | 10min0sec |
| umber Of Scans: | 732 |
| eriods In File: | 1 |
| cquisition Module: | Acquisition Method |
| Software version | Analyst 1.4.2 |

### Period 1:

| | |
|---|---|
| cans in Period: | 732 |
| elative Start Time: | 0.00 msec |
| Experiments in Period: | 1 |

### eriod 1 Experiment 1:

| | |
|---|---|
| Scan Type: | MRM (MRM) |
| Polarity: | Negative |
| can Mode: | N/A |
| on Source: | Turbo Spray |
| Resolution Q1: | Unit |
| tion Q3: | Unit |
| ty Thres.: | 0.00 cps |
| ettling Time: | 0.0000 msec |
| MR Pause: | 5.0070 msec |
| CA: | No |
| tep Size: | 0.00 amu |

| Q1 Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 13.00 | 369.00 | 200.00 | DP | -32.00 | -32.00 |
| | | | CE | -18.00 | -18.00 |
| | | | CXP | -13.20 | -13.20 |

| Q1 Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 415.00 | 370.00 | 200.00 | DP | -32.00 | -32.00 |
| | | | CE | -18.00 | -18.00 |
| | | | CXP | -13.20 | -13.20 |

| l Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 499.00 | 80.00 | 200.00 | DP | -83.00 | -83.00 |
| | | | CE | -88.00 | -88.00 |
| | | | CXP | -6.00 | -6.00 |

| l Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 50[illegible] | 80.00 | 200.00 | DP | -83.00 | -83.00 |
| | | | CE | -88.00 | -88.00 |

CXP -6.00 -6.00

arameter Table(Period 1 Experiment 1):
AD: 7.00
CUR: 20.00
GS1: 50.00
S2: 40.00
S: -4500.00
TEM: 450.00
ihe: ON
P -10.00

Agilent LC Pump Method Properties
Pump Model: Agilent 1100 LC Quaternary Pump
inimum Pressure (psi): 0.0
aximum Pressure (psi): 5801.0
Compressibility: 100.0
Dead Volume (µl): 40.0
troke Volume (µl): -1.0
aximum Flow Ramp (ml/min²): 100.0
Maximum Pressure Ramp (psi/sec): 290.0

tep Table:

| Step | Total Time(min) | Flow Rate(µl/min) | A (%) | B (%) | C (%) | D (%) | TE#1 | TE#2 | TE#3 | TE#4 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.00 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |
| | 0.50 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |
| | 2.00 | 750 | 0.0 | 0.0 | 10.0 | 90.0 | open | open | open | open |
| 3 | 5.00 | 750 | 0.0 | 0.0 | 10.0 | 90.0 | open | open | open | open |
| 4 | 5.10 | 750 | 0.0 | 0.0 | 0.0 | 100.0 | open | open | open | open |
| | 6.00 | 750 | 0.0 | 0.0 | 0.0 | 100.0 | open | open | open | open |
| | 6.10 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |
| 7 | 10.00 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |

rimary Flow Rate (ul/min): 200.0
Flow Sensor Calibration Table Index: 0

gilent Column Oven Properties
Left Temperature (°C): 35.00
Right Temperature (°C): 35.00
Temperature Tolerance +/- (°C): 1.00
tart Acquisition Tolerance +/- (°C): 0.50
ime Table (Not Used)
Column Switching Valve Installed
osition for first sample in the batch: Left
se same position for all samples in the batch

Agilent Autosampler Properties
utosampler Model: Agilent 1100 Wellplate Autosampler
yringe Size (µl): 100
Injection Volume (µl): 15.00
Draw Speed (µl/min): 200.0
ject Speed (µl/min): 200.0
eedle Level (mm): 0.00
Temperature Control Enabled
Setpoint (4 - 40 C): 4
ash Location: Flush Port
ash Time (1 - 999 sec): 10

utomatic Delay Volume Reduction Not Used

MDN 11-4-09

| | |
|---|---|
| ɪqı ration Time (sec): | 2 |
| Ena Vial/Well Bottom Sensing | No |
| se Custom Injector Program | No |

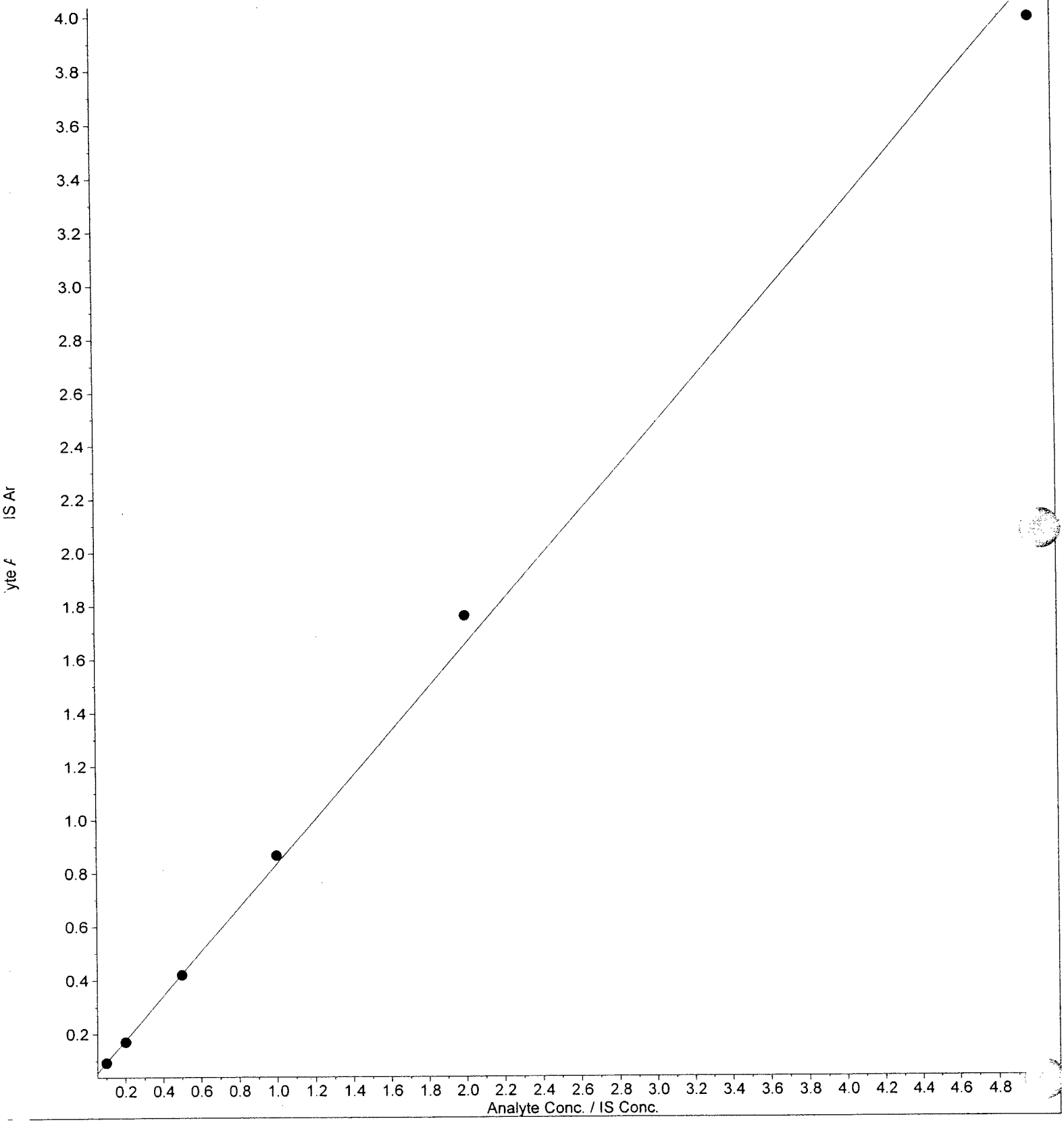
alyst Version: 1.4.2
Printing Time: 8:36:33 AM
Printing Date: Thursday, November 05, 2009

MPI Study: L19346
MPI Set No.: 110409B

Operator: Mark Neeley
Instrument No.: LC/MS/MS #9

MDN 11-5-09

09_110409B.rdb (PFOA): "Linear" Regression ("1 / x" weighting): y = 0.82 x + 0.0127 (r = 0.9989)




Research, Inc.

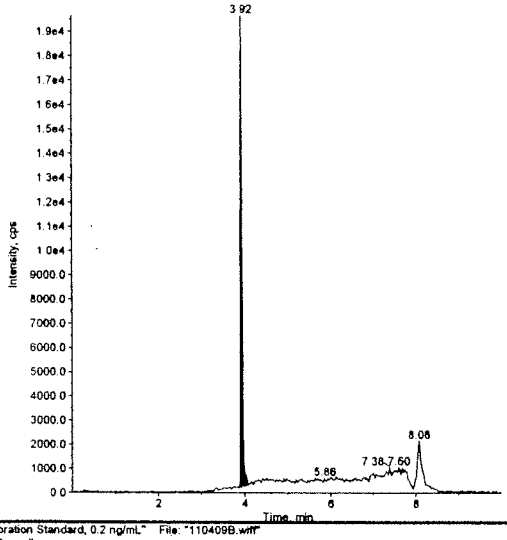
alyst Version: 1.4.2 MPI Study: L19346 Operator: Mark Neeley
Printing Time: 8:37:18 AM MPI Set No.: 110409B Instrument No.: LC/MS/MS #9
Printing Date: Thursday, November 05, 2009

Sample Name: "SS33618" Sample ID: "Calibration Standard, 0.1 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 1
Sample Type: Standard
Concentration: 0.100 ng/mL
Calculated Conc: 0.0977 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 7:33:21 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 53597 counts
Height: 19410 cps
Start Time: 3.85 min
End Time: 4.10 min

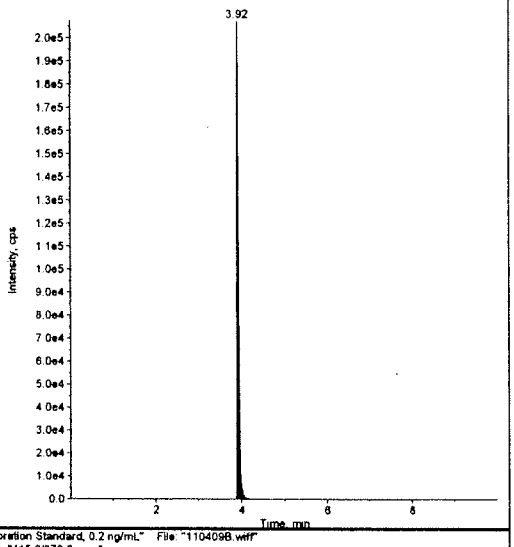



Sample Name: "SS33618" Sample ID: "Calibration Standard, 0.1 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 1
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 7:33:21 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 577500 counts
Height: 209624 cps
Start Time: 3.87 min
End Time: 4.11 min

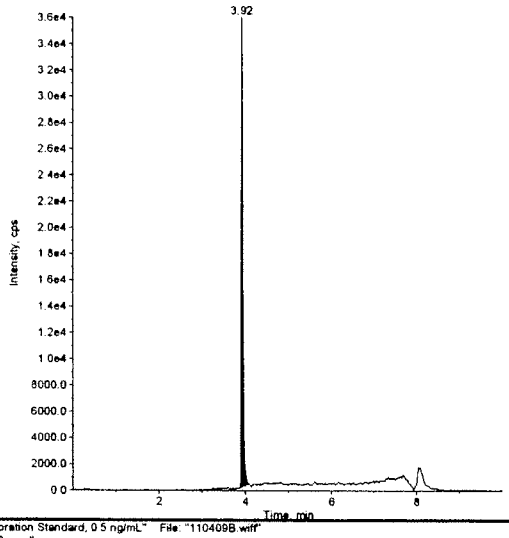



Sample Name: "SS33617" Sample ID: "Calibration Standard, 0.2 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 2
Sample Type: Standard
Concentration: 0.200 ng/mL
Calculated Conc: 0.192 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 7:44:18 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 98503 counts
Height: 35788 cps
Start Time: 3.85 min
End Time: 4.09 min

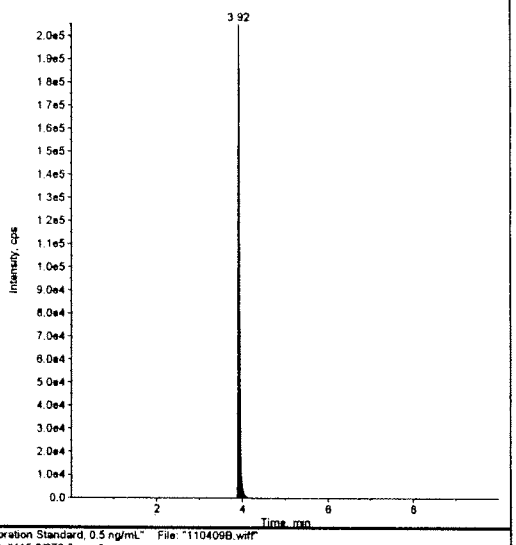



Sample Name: "SS33617" Sample ID: "Calibration Standard, 0.2 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 2
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 7:44:18 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 579686 counts
Height: 208632 cps
Start Time: 3.85 min
End Time: 4.13 min

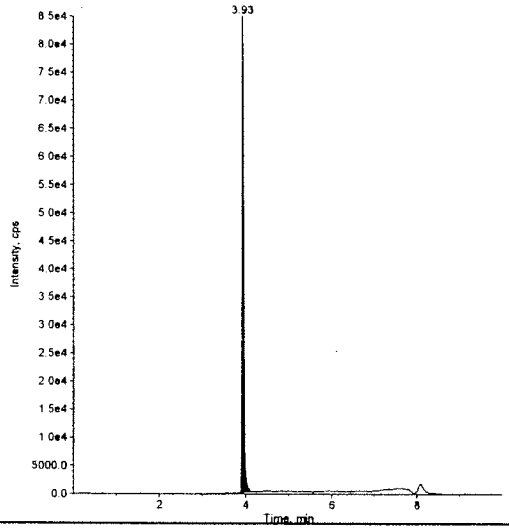



Sample Name: "SS33616" Sample ID: "Calibration Standard, 0.5 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 3
Sample Type: Standard
Concentration: 0.500 ng/mL
Calculated Conc: 0.495 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 7:55:13 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.93 min
Area: 241646 counts
Height: 88065 cps
Start Time: 3.85 min
End Time: 4.13 min

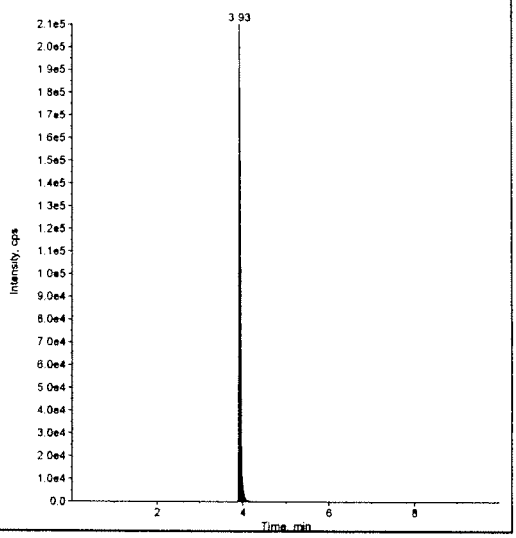



Sample Name: "SS33616" Sample ID: "Calibration Standard, 0.5 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 3
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 7:55:13 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.93 min
Area: 576930 counts
Height: 212439 cps
Start Time: 3.87 min
End Time: 4.11 min




I Research, Inc.



Initials MDN
Date 11-5-09
Sample

alyst Version: 1.4.2
rinting Time: 8:37:18 AM
rinting Date: Thursday, November 05, 2009

MPI Study: L19346
MPI Set No.: 110409B

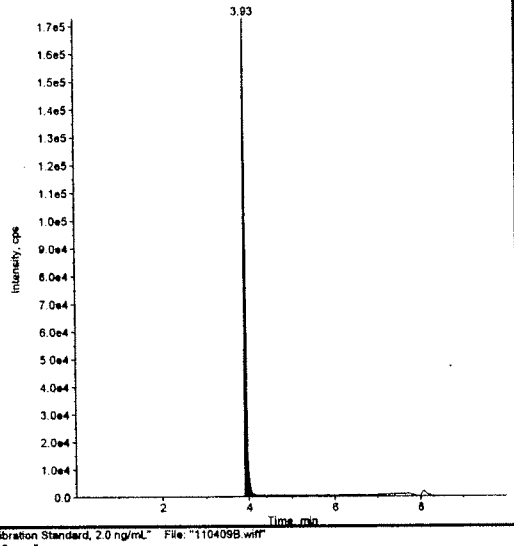
Operator: Mark Neeley
Instrument No.: LC/MS/MS #9

Sample Name: "SS33615" Sample ID: "Calibration Standard, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 4
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: 1.04 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 8:06:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.93 min
Area: 497339 counts
Height: 177363 cps
Start Time: 3.87 min
End Time: 4.17 min

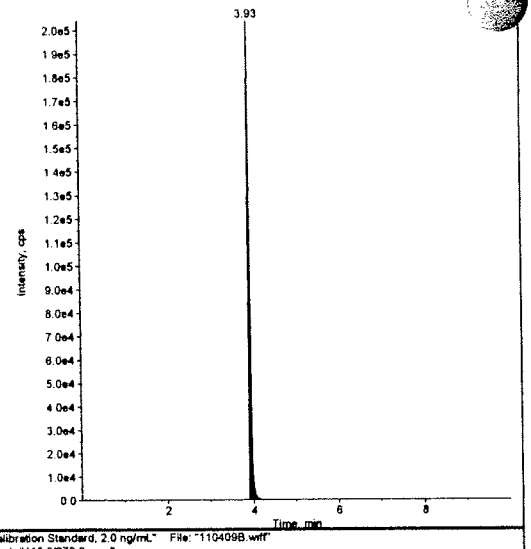



Sample Name: "SS33615" Sample ID: "Calibration Standard, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 4
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:06:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.93 min
Area: 574994 counts
Height: 211665 cps
Start Time: 3.87 min
End Time: 4.11 min

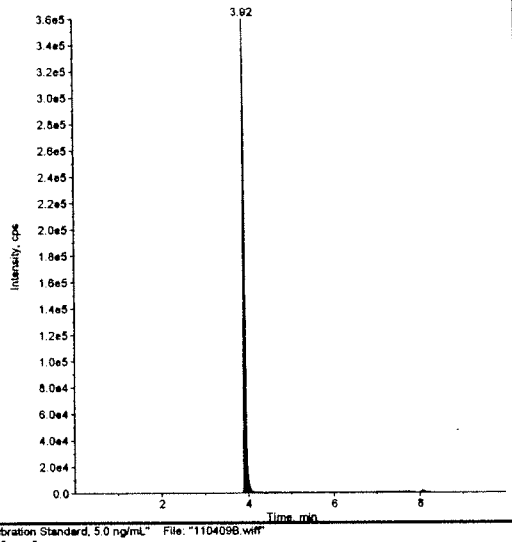



Sample Name: "SS33614" Sample ID: "Calibration Standard, 2.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 5
Sample Type: Standard
Concentration: 2.00 ng/mL
Calculated Conc: 2.13 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 8:17:05 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 3.92 min
Area: 991146 counts
Height: 360149 cps
Start Time: 3.85 min
End Time: 4.24 min

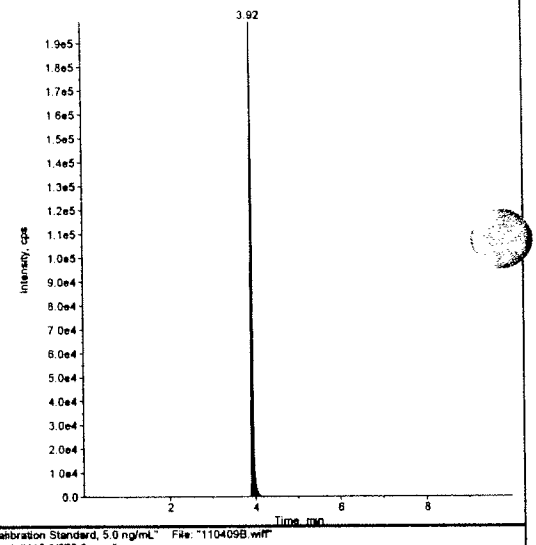



Sample Name: "SS33614" Sample ID: "Calibration Standard, 2.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 5
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:17:05 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 562820 counts
Height: 202871 cps
Start Time: 3.85 min
End Time: 4.11 min

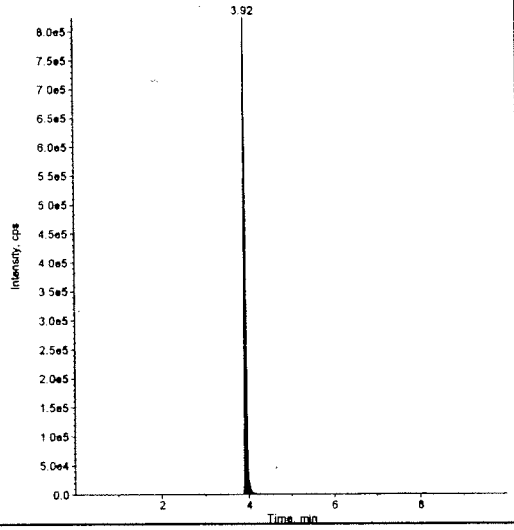



Sample Name: "SS33613" Sample ID: "Calibration Standard, 5.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 6
Sample Type: Standard
Concentration: 5.00 ng/mL
Calculated Conc: 4.84 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 8:28:02 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 2306721 counts
Height: 826704 cps
Start Time: 3.85 min
End Time: 4.28 min

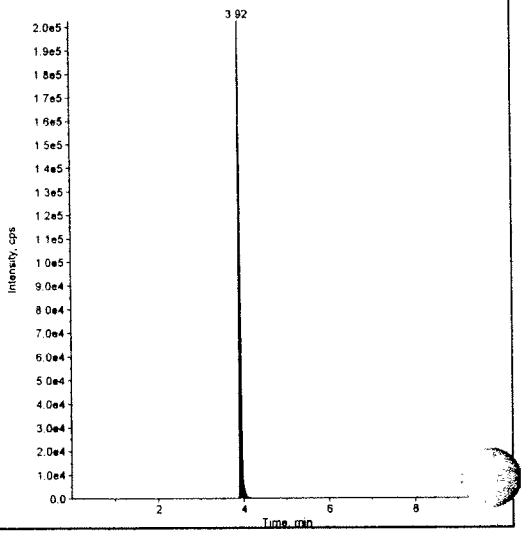



Sample Name: "SS33613" Sample ID: "Calibration Standard, 5.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 6
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:28:02 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 578839 counts
Height: 208513 cps
Start Time: 3.85 min
End Time: 4.11 min

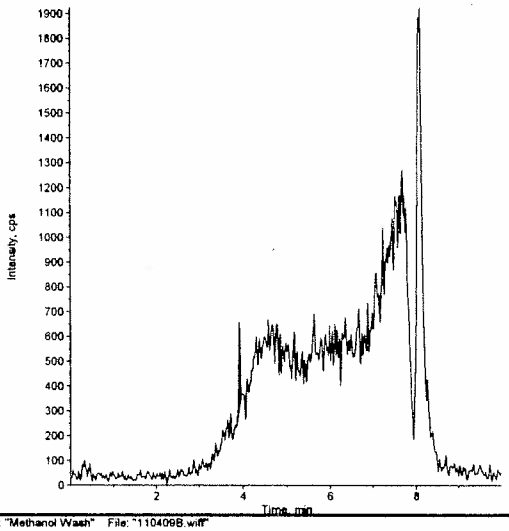


Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 7
Sample Type: Solvent
Concentration: 0.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:38:58 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

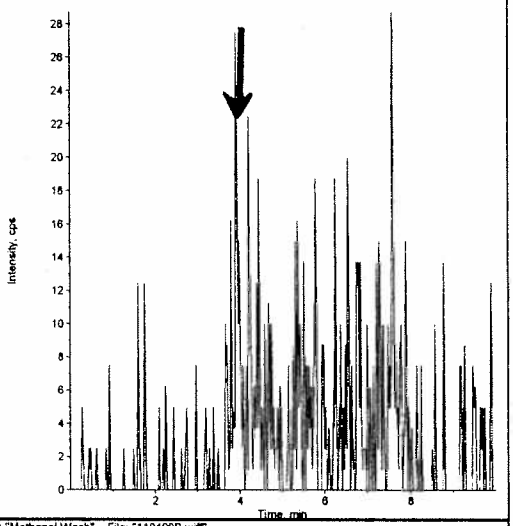
Int. Type: Base To Base
Retention Time: 3.92 min
Area: 826 counts
Height: 348 cps
Start Time: 3.85 min
End Time: 3.96 min




Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 7
Sample Type: Solvent
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:38:58 PM

Modified: No

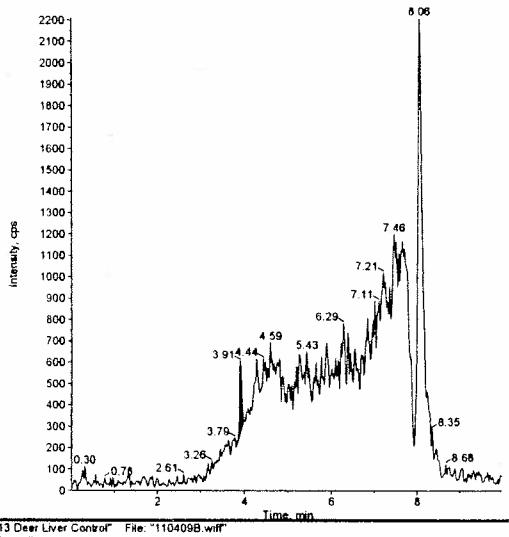



Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 8
Sample Type: Solvent
Concentration: 0.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:49:53 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

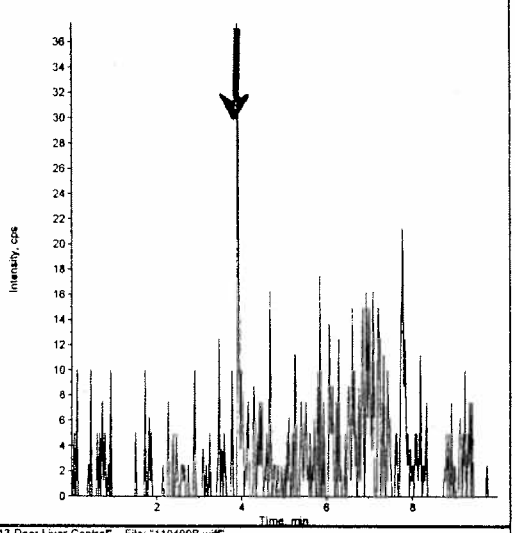
Int. Type: Base To Base
Retention Time: 3.91 min
Area: 1213 counts
Height: 344 cps
Start Time: 3.83 min
End Time: 3.99 min




Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 8
Sample Type: Solvent
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:49:53 PM

Modified: No

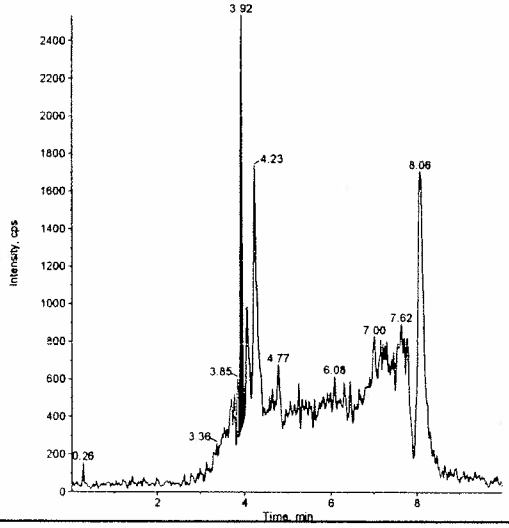



Sample Name: "Control" Sample ID: "MC4313 Deer Liver Control" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 9
Sample Type: Unknown
Concentration: N/A
Calculated Conc: < 0
Acq. Date: 11/4/2009
Acq. Time: 9:00:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 3.92 min
Area: 6297 counts
Height: 2209 cps
Start Time: 3.87 min
End Time: 3.99 min

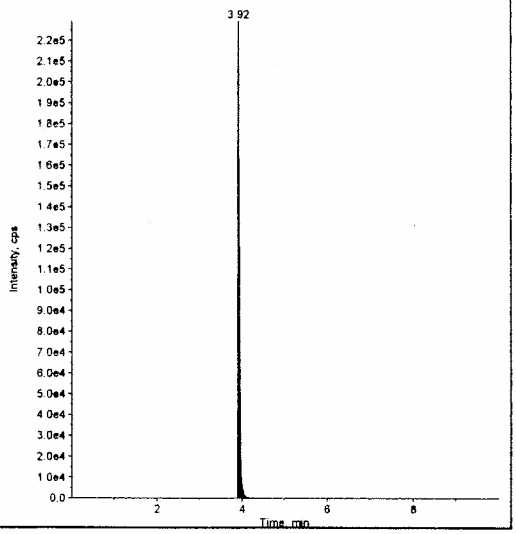



Sample Name: "Control" Sample ID: "MC4313 Deer Liver Control" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:00:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 631451 counts
Height: 233059 cps
Start Time: 3.87 min
End Time: 4.10 min

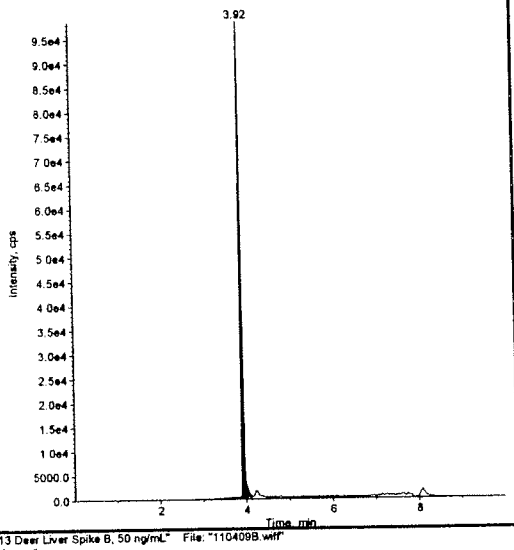


Sample Name: "LCS A" Sample ID: "MC4313 Deer Liver Spike A, 10 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

```
ample Index:        10
ample Type:         QC
oncentration:       10.0     ng/mL
.culated Conc:      10.0     ng/mL
 . Date:        11/4/2009
 . Time:        9:11:45 PM

odified:            No
roc. Algorithm:     Analyst Classic
unching Factor:     1
oise Threshold:     40.01    cps
 a Threshold:       200.04   cps
 . Smooths:         1
 . Width:           0.20
 . Height:          0.01
 . Peak Ratio:      5.00
xp. Adj. Ratio:     4.00
xp. Val. Ratio:     3.00
T Window:           30.0     sec
pected RT:          3.99     min
 Relative RT:       No

 . Type:            Valley
 tention Time:      3.92     min
rea:            271696      counts
Height:          98551      cps
Start Time:        3.87     min
End Time:          4.16     min
```

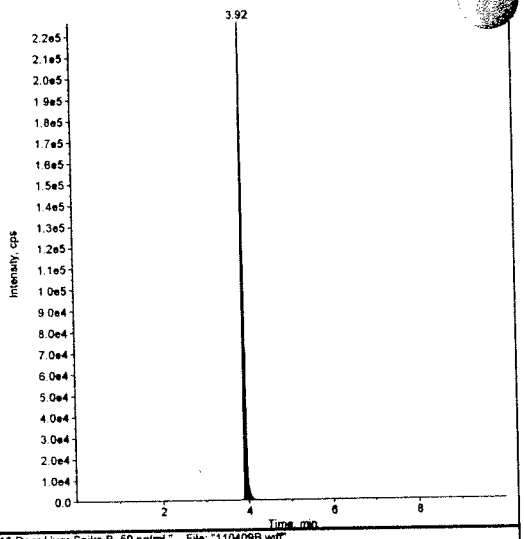



Sample Name: "LCS A" Sample ID: "MC4313 Deer Liver Spike A, 10 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

```
Sample Index:       10
Sample Type:        QC
Concentration:      1.00     ng/mL
Calculated Conc:    N/A
Acq. Date:      11/4/2009
Acq. Time:      9:11:45 PM

Modified:           No
Proc. Algorithm:    Analyst Classic
Bunching Factor:    1
Noise Threshold:    256.47   cps
Area Threshold:     1282.36  cps
Num. Smooths:       1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        3.98     min
Use Relative RT:    No

Int. Type:      Base To Base
Retention Time:     3.92     min
Area:           641244       counts
Height:         235004       cps
Start Time:         3.85     min
End Time:           4.11     min
```

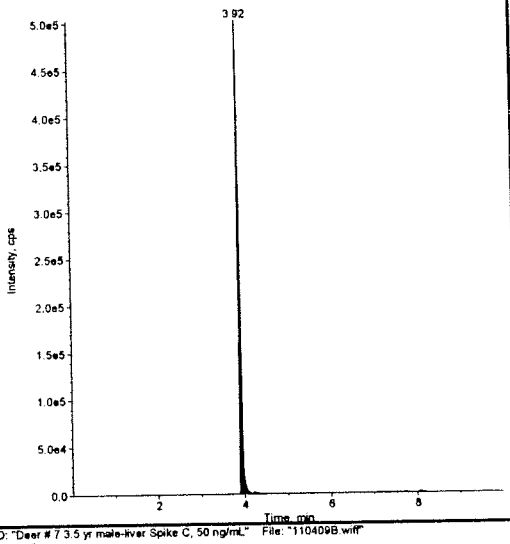



Sample Name: "LCS B" Sample ID: "MC4313 Deer Liver Spike B, 50 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

```
ple Index:          11
ple Type:           QC
ncentration:        50.0     ng/mL
lculated Conc:      50.3     ng/mL
cq. Date:       11/4/2009
cq. Time:       9:22:42 PM

Modified:           No
oc. Algorithm:      Analyst Classic
nching Factor:      1
ise Threshold:      40.01    cps
a Threshold:        200.04   cps
um. Smooths:        1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
 . Adj. Ratio:      4.00
 . Val. Ratio:      3.00
 Window:            30.0     sec
pected RT:          3.99     min
 Relative RT:       No

Int. Type:          Valley
Retention Time:     3.92     min
rea:            1378436      counts
ight:            503128      cps
art Time:           3.87     min
d Time:             4.18     min
```

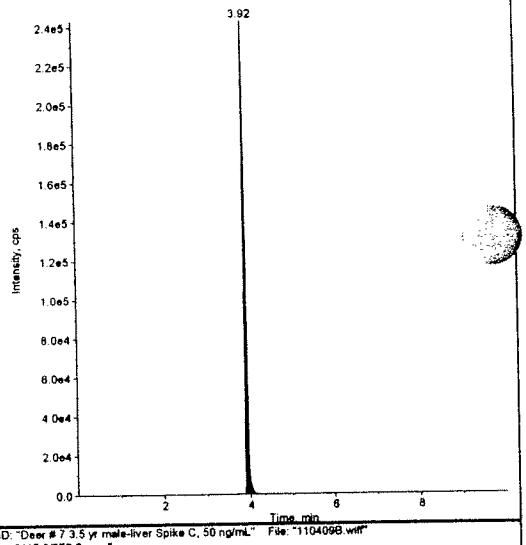



Sample Name: "LCS B" Sample ID: "MC4313 Deer Liver Spike B, 50 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

```
Sample Index:       11
Sample Type:        QC
Concentration:      1.00     ng/mL
Calculated Conc:    N/A
Acq. Date:      11/4/2009
Acq. Time:      9:22:42 PM

Modified:           No
Proc. Algorithm:    Analyst Classic
Bunching Factor:    1
Noise Threshold:    256.47   cps
Area Threshold:     1282.36  cps
Num. Smooths:       1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        3.98     min
Use Relative RT:    No

Int. Type:      Base To Base
Retention Time:     3.92     min
Area:           664454       counts
Height:         245255       cps
Start Time:         3.87     min
End Time:           4.13     min
```

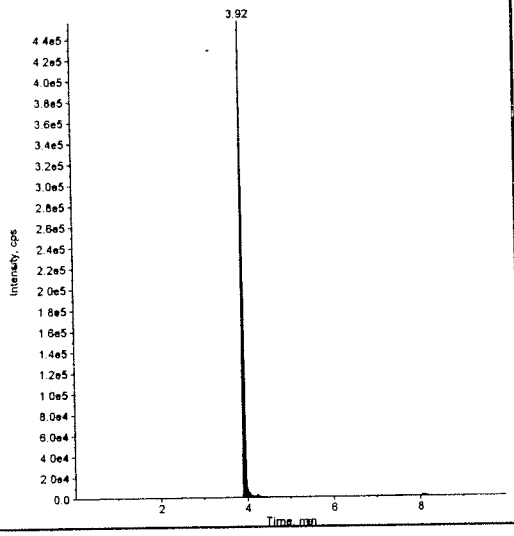



Sample Name: "L19346-4 Spk C" Sample ID: "Deer # 7 3.5 yr male-liver Spike C, 50 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

```
ple Index:          12
Sample Type:        QC
Concentration:      50.0     ng/mL
Calculated Conc:    52.4     ng/mL
Acq. Date:      11/4/2009
 q. Time:       9:33:39 PM

dified:             No
oc. Algorithm:      Analyst Classic
unching Factor:     1
Noise Threshold:    40.01    cps
Area Threshold:     200.04   cps
Num. Smooths:       1
 p. Width:          0.20
 p. Height:         0.01
 p. Peak Ratio:     5.00
 p. Adj. Ratio:     4.00
 p. Val. Ratio:     3.00
RT Window:          30.0     sec
Expected RT:        3.99     min
Use Relative RT:    No

 t. Type:           Valley
tention Time:       3.92     min
ea:             1215134      counts
ight:            457768      cps
Start Time:         3.81     min
End Time:           4.18     min
```

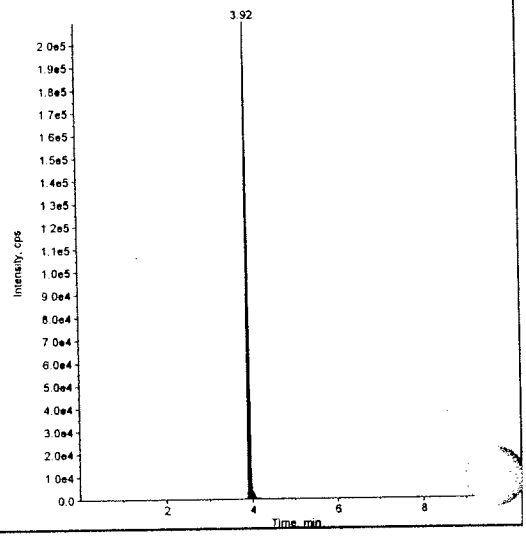



Sample Name: "L19346-4 Spk C" Sample ID: "Deer # 7 3.5 yr male-liver Spike C, 50 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

```
Sample Index:       12
Sample Type:        QC
Concentration:      1.00     ng/mL
Calculated Conc:    N/A
Acq. Date:      11/4/2009
Acq. Time:      9:33:39 PM

Modified:           No
Proc. Algorithm:    Analyst Classic
Bunching Factor:    1
Noise Threshold:    256.47   cps
Area Threshold:     1282.36  cps
Num. Smooths:       1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        3.98     min
Use Relative RT:    No

Int. Type:      Base To Base
Retention Time:     3.92     min
Area:           562757       counts
Height:         211307       cps
Start Time:         3.87     min
End Time:           4.11     min
```

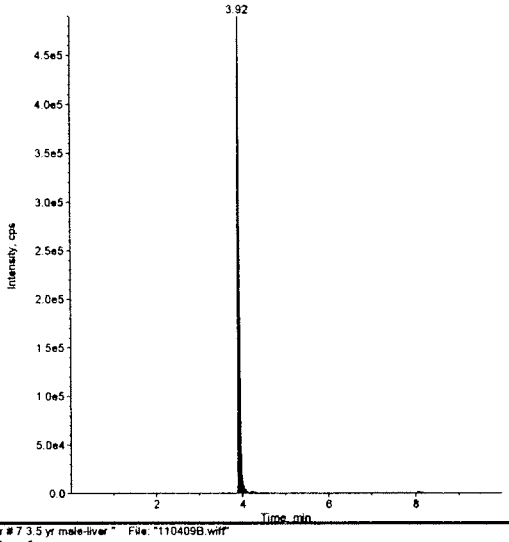


Sample Name: "L19346-2 Spk D" Sample ID: "Deer # 6 0.5 yr female-liver Spike D, 50 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 13
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 50.4 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 9:44:36 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Exponential Skim
Retention Time: 3.92 min
Area: 1371578 counts
Height: 494434 cps
Start Time: 3.81 min
End Time: 4.07 min

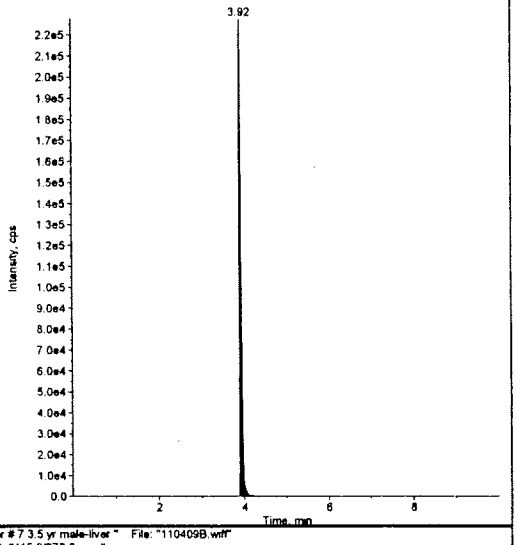



Sample Name: "L19346-2 Spk D" Sample ID: "Deer # 6 0.5 yr female-liver Spike D, 50 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 13
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:44:36 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 660270 counts
Height: 237695 cps
Start Time: 3.85 min
End Time: 4.13 min

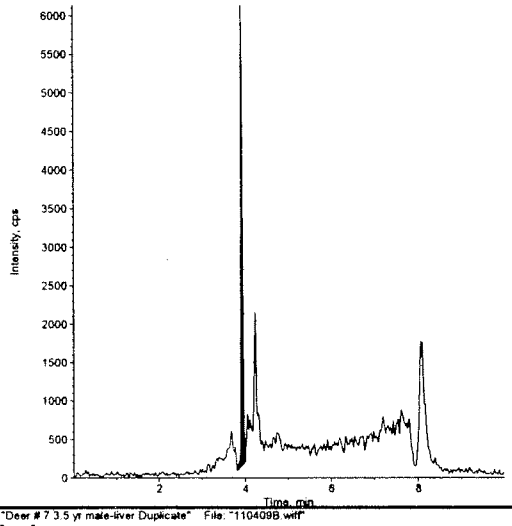



Sample Name: "L19346-4" Sample ID: "Deer # 7 3.5 yr male-liver " File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.364 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 9:55:34 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 3.93 min
Area: 16855 counts
Height: 6070 cps
Start Time: 3.81 min
End Time: 4.00 min

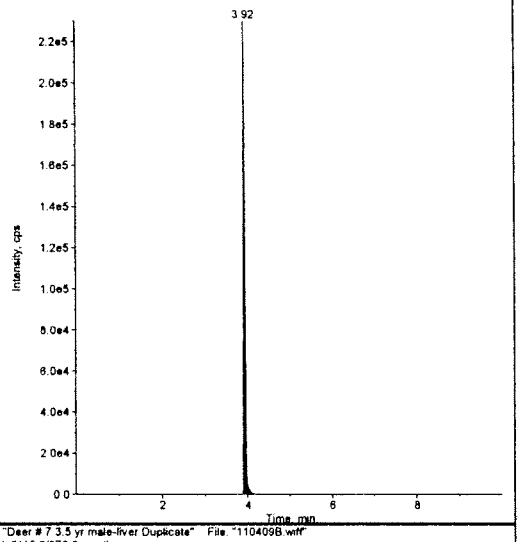



Sample Name: "L19346-4" Sample ID: "Deer # 7 3.5 yr male-liver " File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:55:34 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 609540 counts
Height: 230184 cps
Start Time: 3.87 min
End Time: 4.13 min

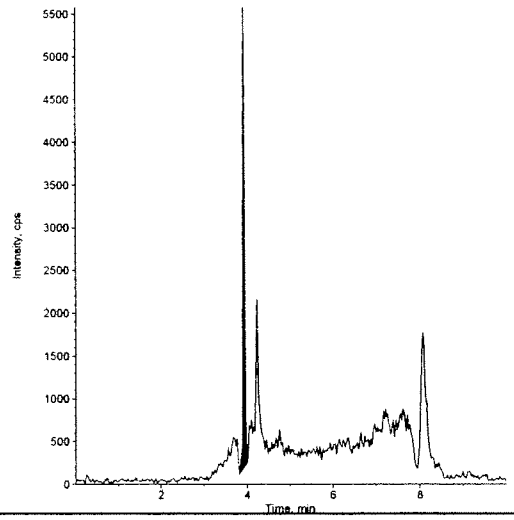



Sample Name: "L19346-4 Dup" Sample ID: "Deer # 7 3.5 yr male-liver Duplicate" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.335 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:06:31 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 15080 counts
Height: 5397 cps
Start Time: 3.81 min
End Time: 4.00 min

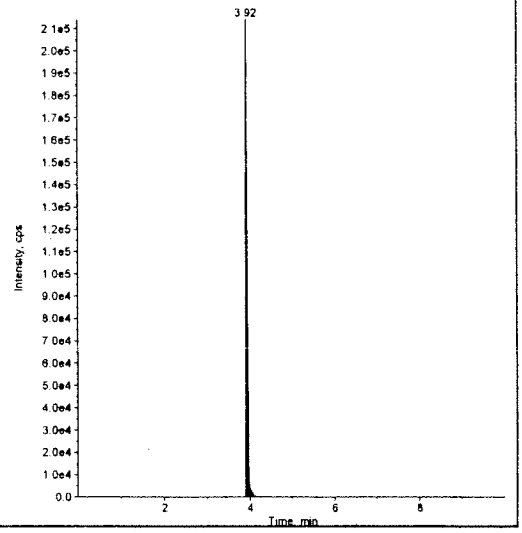



Sample Name: "L19346-4 Dup" Sample ID: "Deer # 7 3.5 yr male-liver Duplicate" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:06:31 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 570446 counts
Height: 215345 cps
Start Time: 3.87 min
End Time: 4.11 min

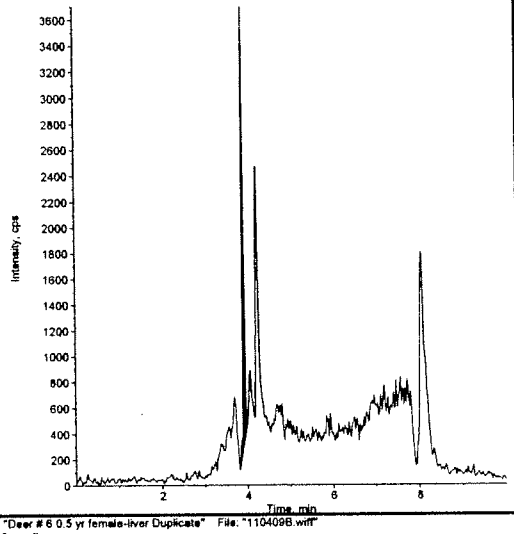


Sample Name: "L19346-2" Sample ID: "Deer # 6 0.5 yr female-liver " File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0400 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:17:29 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 173.66 cps
Area Threshold: 868.29 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 9470 counts
Height: 3379 cps
Start Time: 3.81 min
End Time: 4.00 min

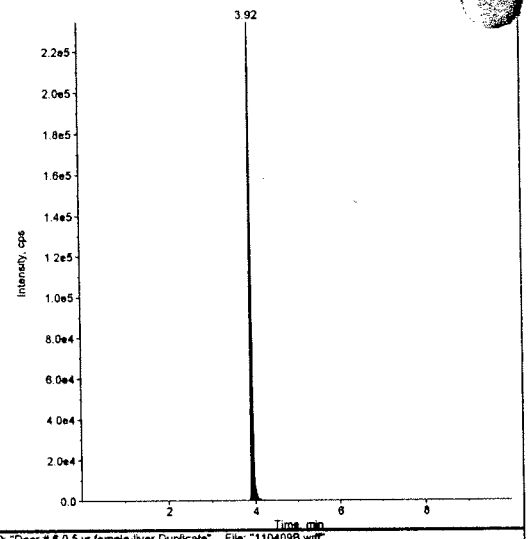



Sample Name: "L19346-2" Sample ID: "Deer # 6 0.5 yr female-liver " File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:17:29 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 660125 counts
Height: 238474 cps
Start Time: 3.85 min
End Time: 4.14 min

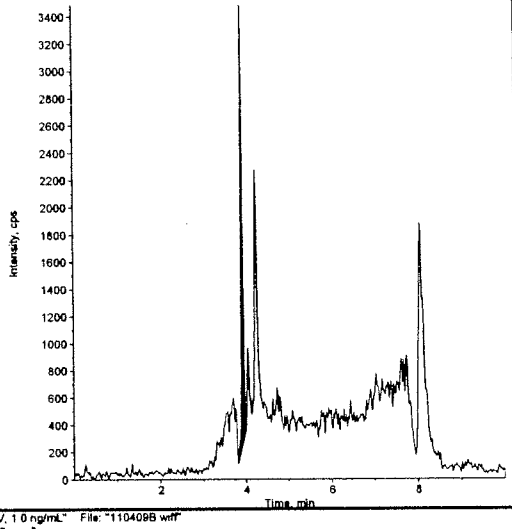



Sample Name: "L19346-2 Dup" Sample ID: "Deer # 6 0.5 yr female-liver Duplicate" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0534 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:28:26 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 291.91 cps
Area Threshold: 1459.53 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 9261 counts
Height: 3237 cps
Start Time: 3.81 min
End Time: 4.00 min

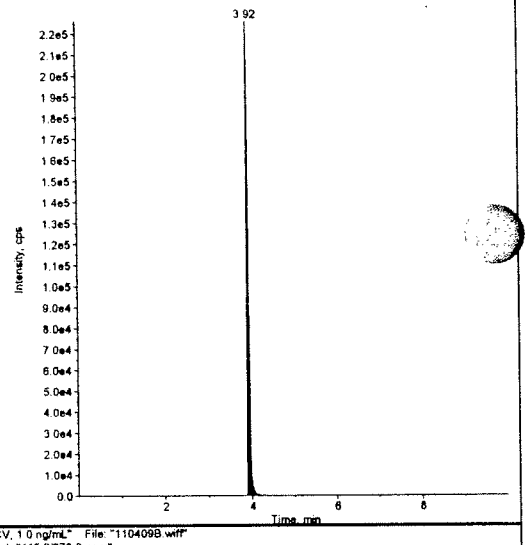



Sample Name: "L19346-2 Dup" Sample ID: "Deer # 6 0.5 yr female-liver Duplicate" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:28:26 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 621722 counts
Height: 227182 cps
Start Time: 3.87 min
End Time: 4.13 min

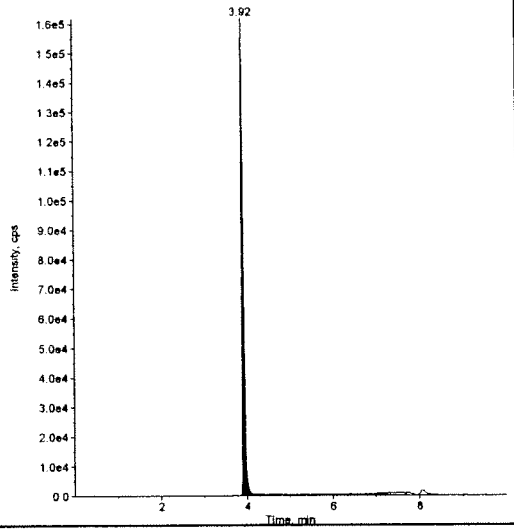



Sample Name: "SS33615" Sample ID: "CCV, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOA" Mass(es): "413.0/369.0 amu"
Comment: "" Annotation: ""

Sample Index: 18
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: 1.02 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:39:24 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 40.01 cps
Area Threshold: 200.04 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.99 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 465569 counts
Height: 162668 cps
Start Time: 3.84 min
End Time: 4.25 min

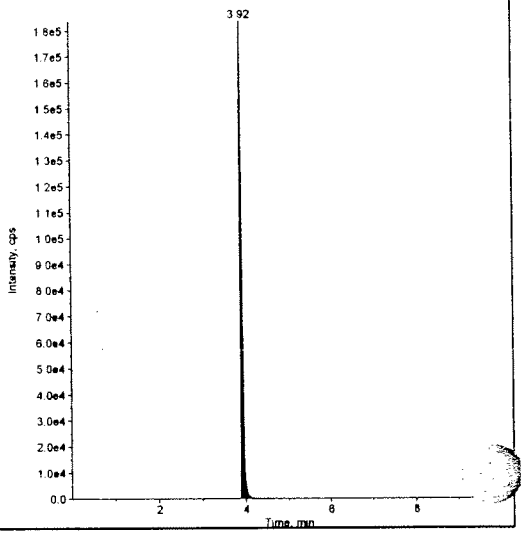



Sample Name: "SS33615" Sample ID: "CCV, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOA(M+2)(IS)" Mass(es): "415.0/370.0 amu"
Comment: "" Annotation: ""

Sample Index: 18
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:39:24 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 256.47 cps
Area Threshold: 1282.36 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 3.98 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.92 min
Area: 549065 counts
Height: 190703 cps
Start Time: 3.85 min
End Time: 4.13 min



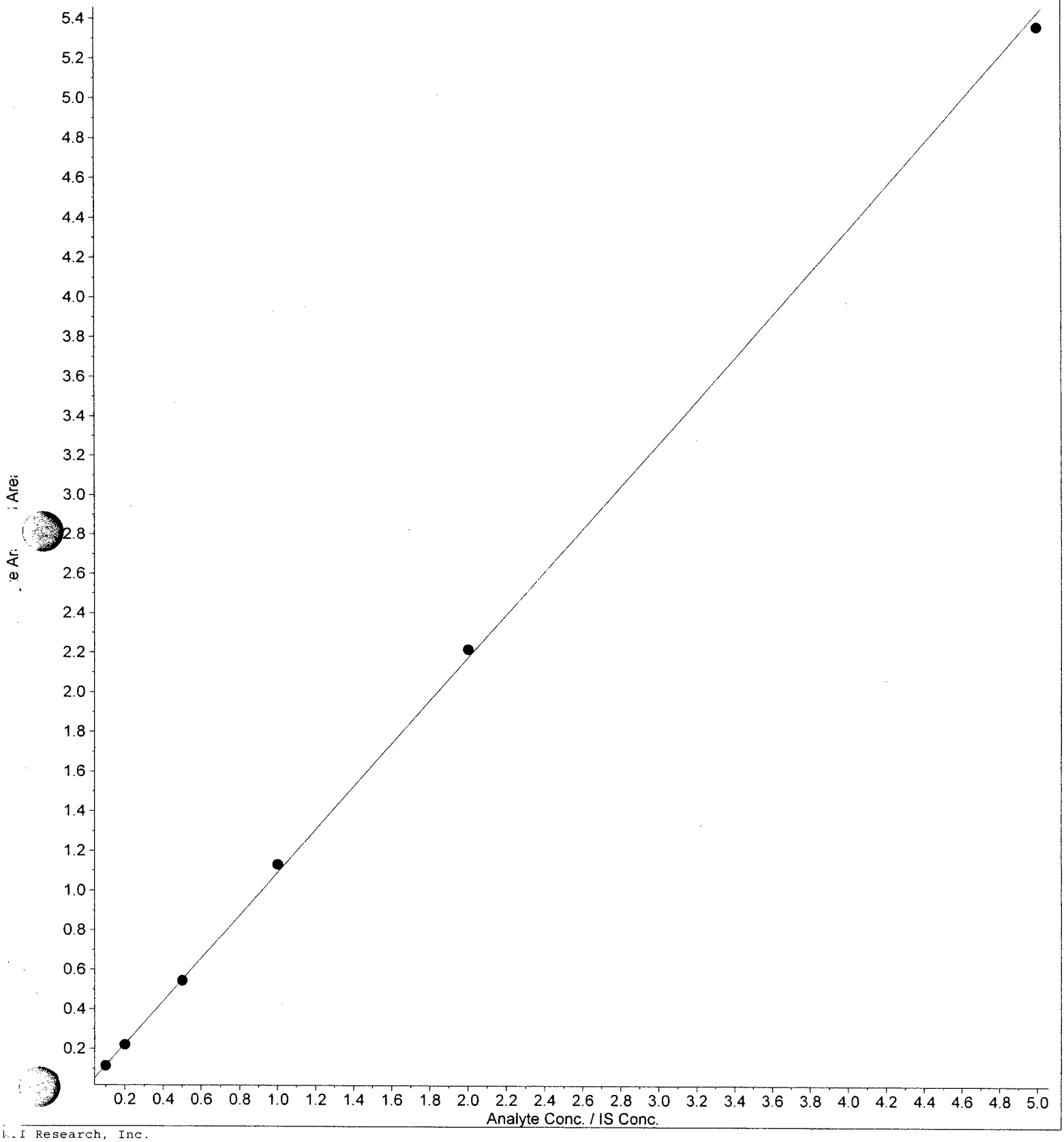
Analyst Version: 1.4.2
Printing Time: 8:36:44 AM
Printing Date: Thursday, November 05, 2009

MPI Study: L19346
MPI Set No.: 110409B

Operator: Mark Neeley
Instrument No.: LC/MS/MS #9

MDN 11-5-09

09_110409B.rdb (PFOS): "Linear" Regression ("1 / x" weighting): y = 1.08 x + 0.00662 (r = 0.9998)




MPI Research, Inc.

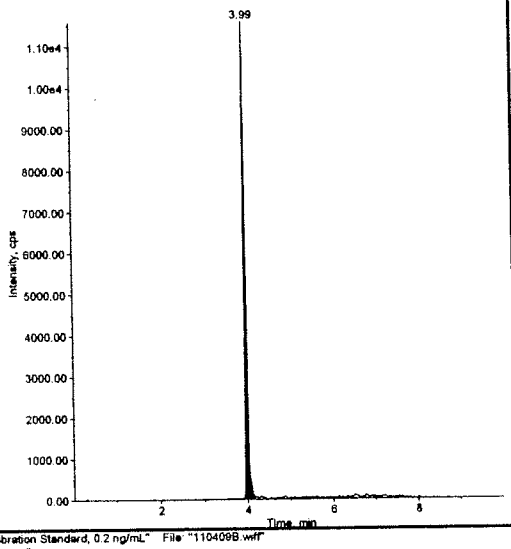
..alyst Version: 1.4.2
rinting Time: 8:37:35 AM
rinting Date: Thursday, November 05, 2009

MPI Study: L19346
MPI Set No.: 110409B

Operator: Mark Neeley
Instrument No.: LC/MS/MS #9

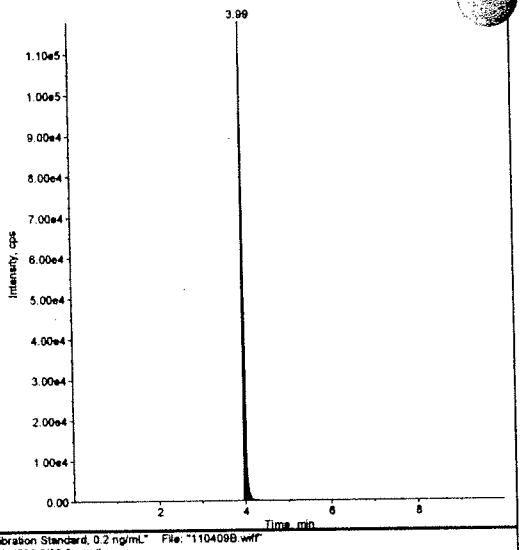
Sample Name: "SS33618" Sample ID: "Calibration Standard, 0.1 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

| | | |
|---|---|---|
| ample Index: | 1 | |
| ample Type: | Standard | |
| oncentration: | 0.100 | ng/mL |
| lculated Conc: | 0.0985 | ng/mL |
| q. Date: | 11/4/2009 | |
| q. Time: | 7:33:21 PM | |
| odified: | No | |
| Proc. Algorithm: | Analyst Classic | |
| Bunching Factor: | 1 | |
| Noise Threshold: | 15.73 | cps |
| a Threshold: | 78.65 | cps |
| . Smooths: | 1 | |
| . Width: | 0.20 | |
| . Height: | 0.01 | |
| p. Peak Ratio: | 5.00 | |
| Exp. Adj. Ratio: | 4.00 | |
| Exp. Val. Ratio: | 3.00 | |
| RT Window: | 30.0 | sec |
| ected RT: | 4.06 | min |
| Relative RT: | No | |
| . Type: | Base To Base | |
| ention Time: | 3.99 | min |
| Area: | 37064 | counts |
| Height: | 11562 | cps |
| Start Time: | 3.90 | min |
| End Time: | 4.22 | min |



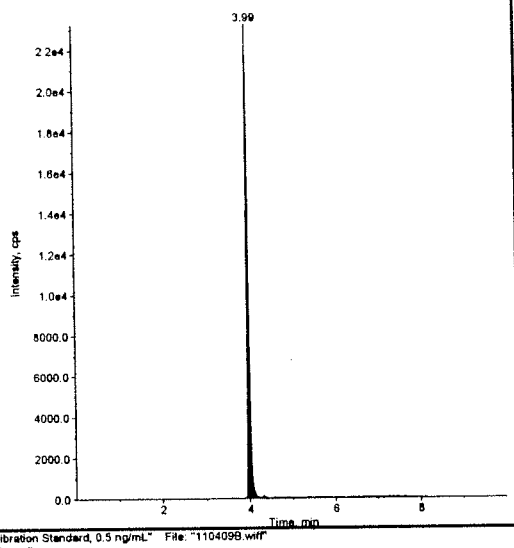

Sample Name: "SS33618" Sample ID: "Calibration Standard, 0.1 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

| | | |
|---|---|---|
| Sample Index: | 1 | |
| Sample Type: | Standard | |
| Concentration: | 1.00 | ng/mL |
| Calculated Conc: | N/A | |
| Acq. Date: | 11/4/2009 | |
| Acq. Time: | 7:33:21 PM | |
| Modified: | No | |
| Proc. Algorithm: | Analyst Classic | |
| Bunching Factor: | 1 | |
| Noise Threshold: | 140.21 | cps |
| Area Threshold: | 701.07 | cps |
| Num. Smooths: | 1 | |
| Sep. Width: | 0.20 | |
| Sep. Height: | 0.01 | |
| Exp. Peak Ratio: | 5.00 | |
| Exp. Adj. Ratio: | 4.00 | |
| Exp. Val. Ratio: | 3.00 | |
| RT Window: | 30.0 | sec |
| Expected RT: | 4.06 | min |
| Use Relative RT: | No | |
| Int. Type: | Base To Base | |
| Retention Time: | 3.99 | min |
| Area: | 326535 | counts |
| Height: | 117878 | cps |
| Start Time: | 3.94 | min |
| End Time: | 4.18 | min |



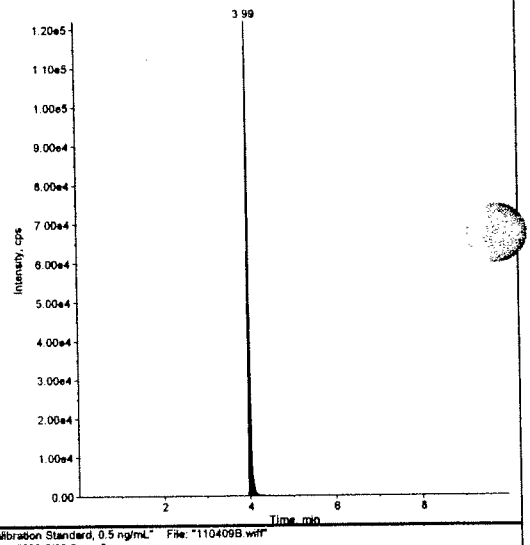

Sample Name: "SS33617" Sample ID: "Calibration Standard, 0.2 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

| | | |
|---|---|---|
| ple Index: | 2 | |
| ple Type: | Standard | |
| centration: | 0.200 | ng/mL |
| lculated Conc: | 0.197 | ng/mL |
| cq. Date: | 11/4/2009 | |
| Acq. Time: | 7:44:18 PM | |
| Modified: | No | |
| c. Algorithm: | Analyst Classic | |
| ching Factor: | 1 | |
| ise Threshold: | 15.73 | cps |
| a Threshold: | 78.65 | cps |
| . Smooths: | 1 | |
| Sep. Width: | 0.20 | |
| Sep. Height: | 0.01 | |
| Exp. Peak Ratio: | 5.00 | |
| p. Adj. Ratio: | 4.00 | |
| . Val. Ratio: | 3.00 | |
| Window: | 30.0 | sec |
| ected RT: | 4.06 | min |
| Relative RT: | No | |
| Int. Type: | Valley | |
| Retention Time: | 3.99 | min |
| Area: | 73957 | counts |
| ght: | 23275 | cps |
| rt Time: | 3.87 | min |
| Time: | 4.28 | min |



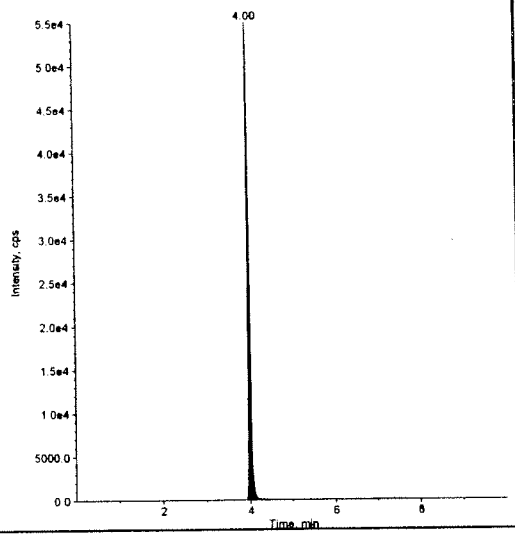

Sample Name: "SS33617" Sample ID: "Calibration Standard, 0.2 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

| | | |
|---|---|---|
| Sample Index: | 2 | |
| Sample Type: | Standard | |
| Concentration: | 1.00 | ng/mL |
| Calculated Conc: | N/A | |
| Acq. Date: | 11/4/2009 | |
| Acq. Time: | 7:44:18 PM | |
| Modified: | No | |
| Proc. Algorithm: | Analyst Classic | |
| Bunching Factor: | 1 | |
| Noise Threshold: | 140.21 | cps |
| Area Threshold: | 701.07 | cps |
| Num. Smooths: | 1 | |
| Sep. Width: | 0.20 | |
| Sep. Height: | 0.01 | |
| Exp. Peak Ratio: | 5.00 | |
| Exp. Adj. Ratio: | 4.00 | |
| Exp. Val. Ratio: | 3.00 | |
| RT Window: | 30.0 | sec |
| Expected RT: | 4.06 | min |
| Use Relative RT: | No | |
| Int. Type: | Base To Base | |
| Retention Time: | 3.99 | min |
| Area: | 336348 | counts |
| Height: | 122369 | cps |
| Start Time: | 3.94 | min |
| End Time: | 4.20 | min |



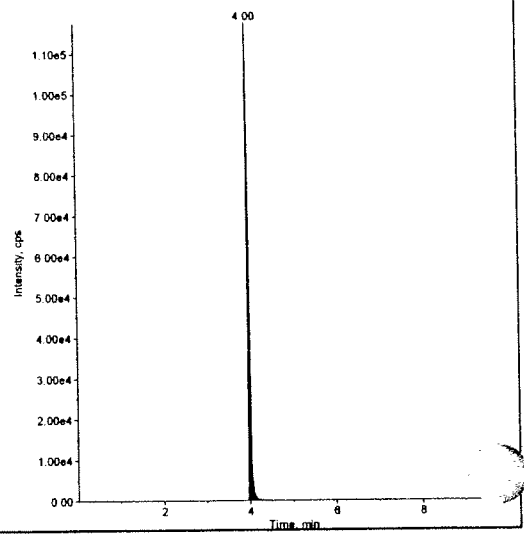

Sample Name: "SS33616" Sample ID: "Calibration Standard, 0.5 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

| | | |
|---|---|---|
| ple Index: | 3 | |
| ample Type: | Standard | |
| Concentration: | 0.500 | ng/mL |
| Calculated Conc: | 0.495 | ng/mL |
| Acq. Date: | 11/4/2009 | |
| q. Time: | 7:55:13 PM | |
| lified: | No | |
| c. Algorithm: | Analyst Classic | |
| ching Factor: | 1 | |
| Noise Threshold: | 15.73 | cps |
| Area Threshold: | 78.65 | cps |
| Num. Smooths: | 1 | |
| p. Width: | 0.20 | |
| . Height: | 0.01 | |
| . Peak Ratio: | 5.00 | |
| . Adj. Ratio: | 4.00 | |
| . Val. Ratio: | 3.00 | |
| RT Window: | 30.0 | sec |
| Expected RT: | 4.06 | min |
| Use Relative RT: | No | |
| . Type: | Base To Base | |
| ention Time: | 4.00 | min |
| a: | 178457 | counts |
| ght: | 56427 | cps |
| rt Time: | 3.91 | min |
| End Time: | 4.26 | min |




Sample Name: "SS33616" Sample ID: "Calibration Standard, 0.5 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

| | | |
|---|---|---|
| Sample Index: | 3 | |
| Sample Type: | Standard | |
| Concentration: | 1.00 | ng/mL |
| Calculated Conc: | N/A | |
| Acq. Date: | 11/4/2009 | |
| Acq. Time: | 7:55:13 PM | |
| Modified: | No | |
| Proc. Algorithm: | Analyst Classic | |
| Bunching Factor: | 1 | |
| Noise Threshold: | 140.21 | cps |
| Area Threshold: | 701.07 | cps |
| Num. Smooths: | 1 | |
| Sep. Width: | 0.20 | |
| Sep. Height: | 0.01 | |
| Exp. Peak Ratio: | 5.00 | |
| Exp. Adj. Ratio: | 4.00 | |
| Exp. Val. Ratio: | 3.00 | |
| RT Window: | 30.0 | sec |
| Expected RT: | 4.06 | min |
| Use Relative RT: | No | |
| Int. Type: | Base To Base | |
| Retention Time: | 4.00 | min |
| Area: | 328571 | counts |
| Height: | 121222 | cps |
| Start Time: | 3.94 | min |
| End Time: | 4.20 | min |




Research, Inc.

Initials MDJ

Date 11-5-09

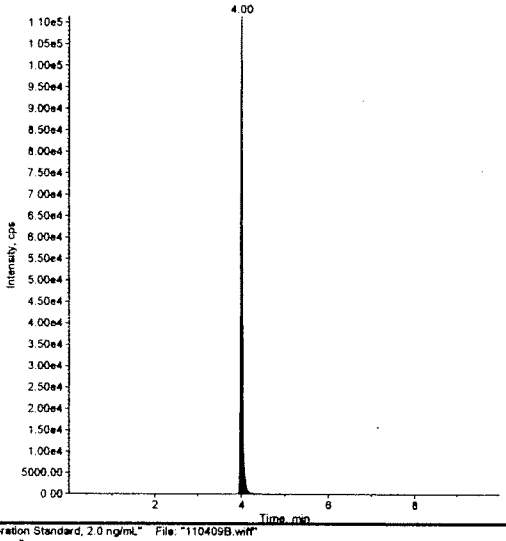
Sample Index 1 To 18

Sample Name: "SS33615" Sample ID: "Calibration Standard, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 4
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: 1.04 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 8:06:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 4.00 min
Area: 364151 counts
Height: 114632 cps
Start Time: 3.91 min
End Time: 4.22 min

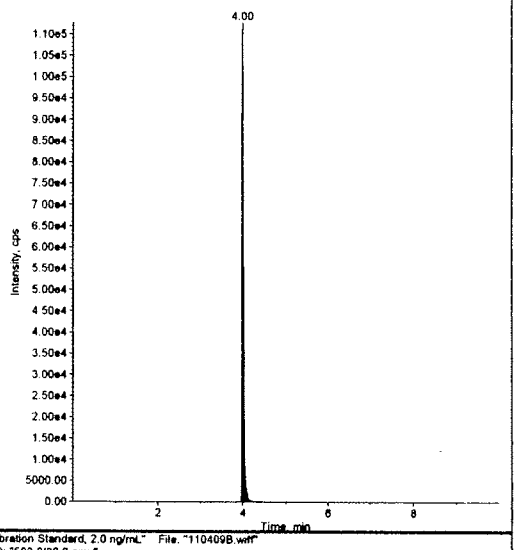



Sample Name: "SS33615" Sample ID: "Calibration Standard, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 4
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:06:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 4.00 min
Area: 322059 counts
Height: 116665 cps
Start Time: 3.94 min
End Time: 4.20 min

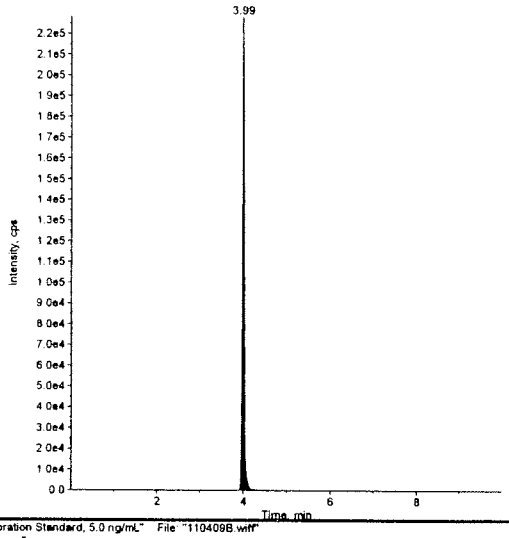



Sample Name: "SS33614" Sample ID: "Calibration Standard, 2.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 5
Sample Type: Standard
Concentration: 2.00 ng/mL
Calculated Conc: 2.04 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 8:17:05 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 724285 counts
Height: 228433 cps
Start Time: 3.90 min
End Time: 4.24 min

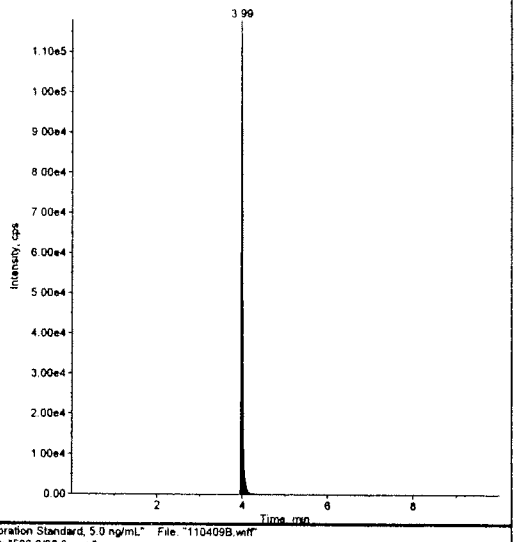



Sample Name: "SS33614" Sample ID: "Calibration Standard, 2.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 5
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:17:05 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 326736 counts
Height: 118117 cps
Start Time: 3.94 min
End Time: 4.18 min

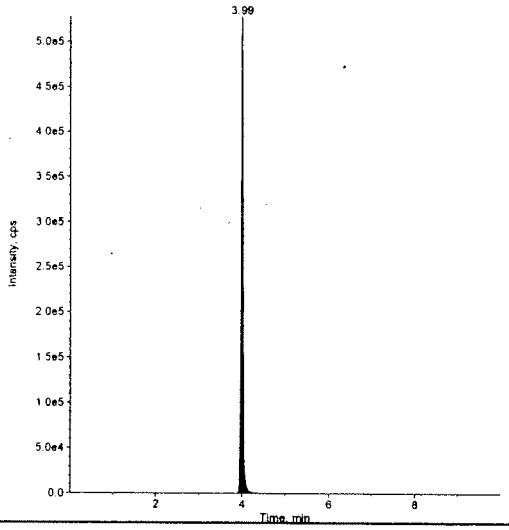



Sample Name: "SS33613" Sample ID: "Calibration Standard, 5.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 6
Sample Type: Standard
Concentration: 5.00 ng/mL
Calculated Conc: 4.94 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 8:28:02 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 1715083 counts
Height: 530522 cps
Start Time: 3.90 min
End Time: 4.28 min

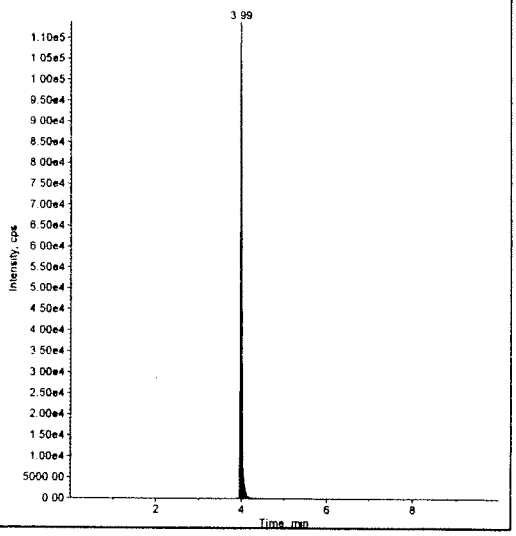



Sample Name: "SS33613" Sample ID: "Calibration Standard, 5.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 6
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:28:02 PM

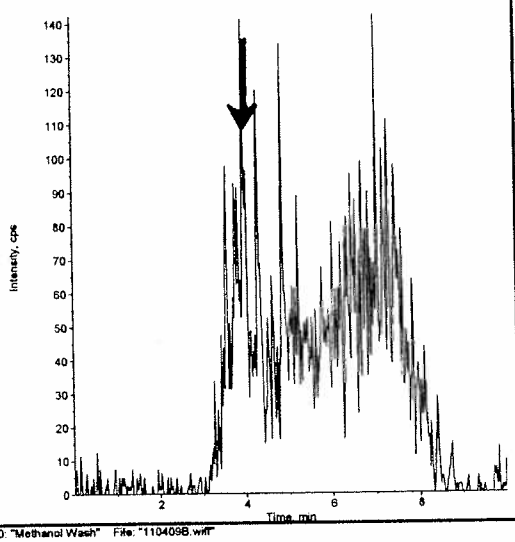
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 319901 counts
Height: 114475 cps
Start Time: 3.94 min
End Time: 4.17 min



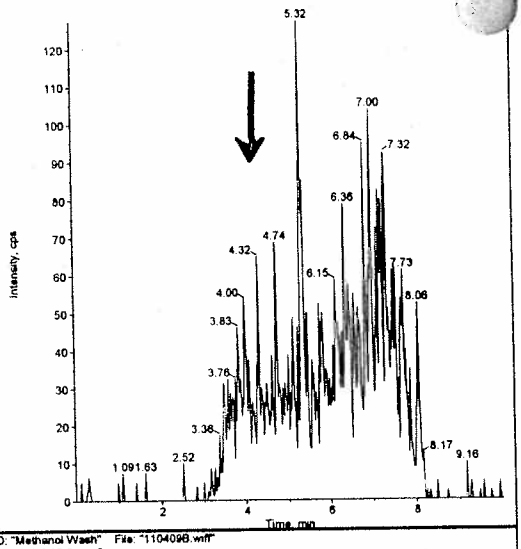
Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""
Sample Index: 7
Sample Type: Solvent
Concentration: 0.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:38:58 PM

Modified: Yes



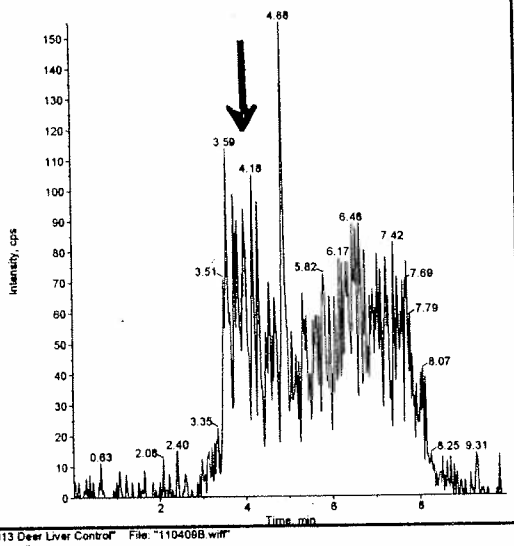

Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""
Sample Index: 7
Sample Type: Solvent
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:38:58 PM

Modified: Yes



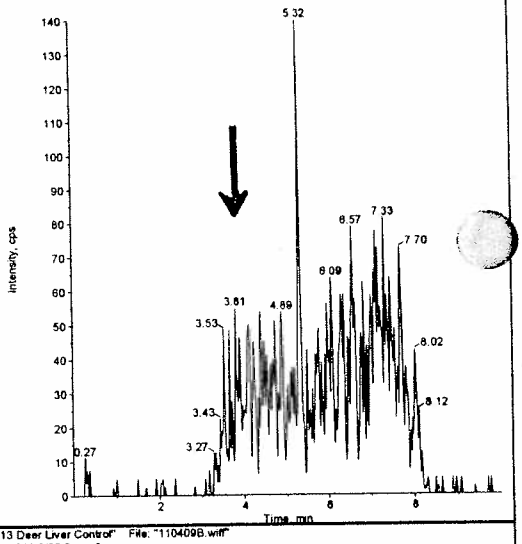

Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""
Sample Index: 8
Sample Type: Solvent
Concentration: 0.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:49:53 PM

Modified: Yes




Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""
Sample Index: 8
Sample Type: Solvent
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 8:49:53 PM

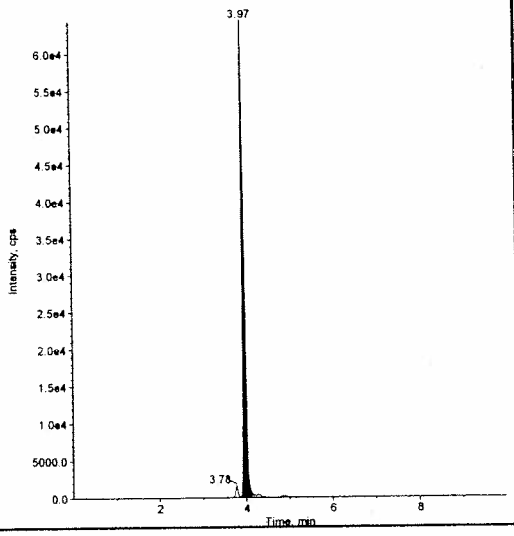
Modified: Yes




Sample Name: "Control" Sample ID: "MC4313 Deer Liver Control" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""
Sample Index: 9
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 16.5 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 9:00:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

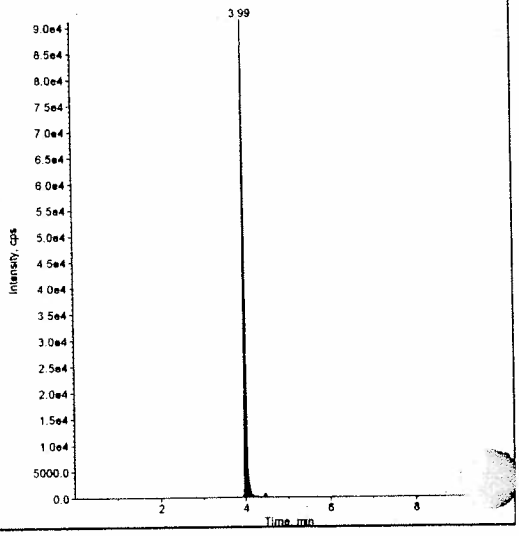
Int. Type: Base To Base
Retention Time: 3.97 min
Area: 231690 counts
Height: 65061 cps
Start Time: 3.88 min
End Time: 4.17 min




Sample Name: "Control" Sample ID: "MC4313 Deer Liver Control" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""
Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:00:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 257737 counts
Height: 91364 cps
Start Time: 3.94 min
End Time: 4.18 min

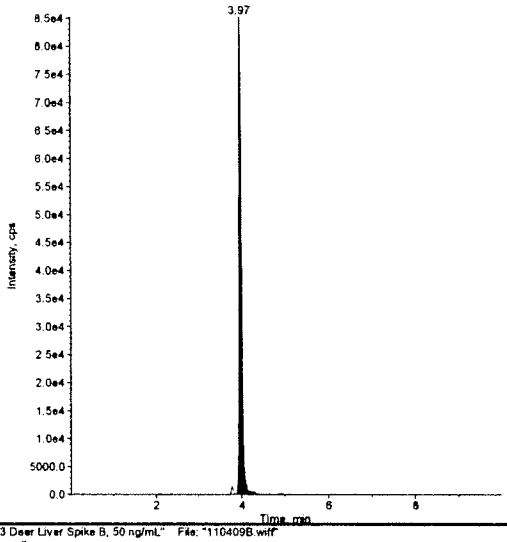


Sample Name: "LCS A" Sample ID: "MC4313 Deer Liver Spike A, 10 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 10
Sample Type: QC
Concentration: 10.0 ng/mL
Calculated Conc: 26.2 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 9:11:45 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Exponential Skim
Retention Time: 3.97 min
Area: 362607 counts
Height: 87836 cps
Start Time: 3.84 min
End Time: 4.09 min

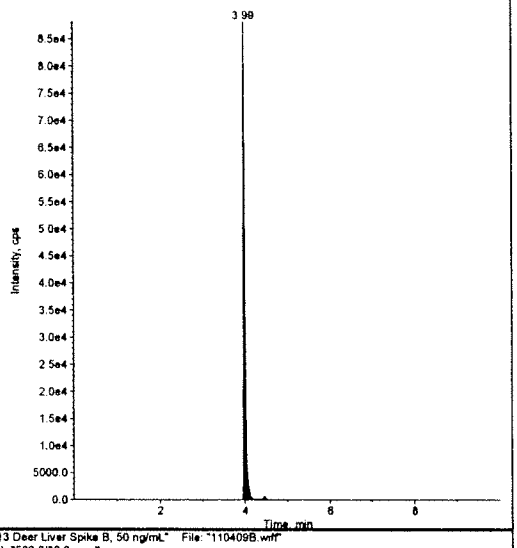



Sample Name: "LCS A" Sample ID: "MC4313 Deer Liver Spike A, 10 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 10
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:11:45 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 253871 counts
Height: 88829 cps
Start Time: 3.91 min
End Time: 4.20 min

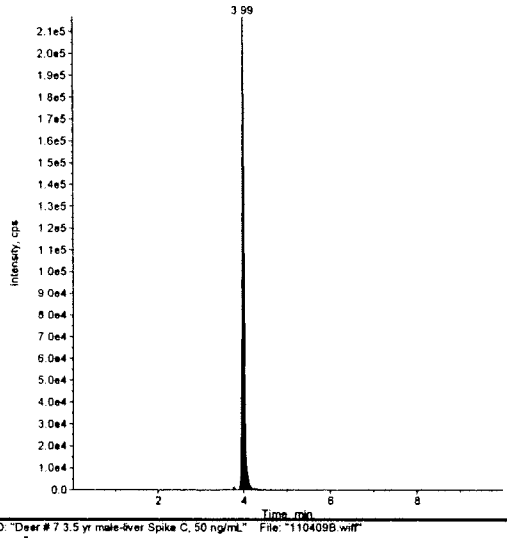



Sample Name: "LCS B" Sample ID: "MC4313 Deer Liver Spike B, 50 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 11
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 61.3 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 9:22:42 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Exponential Skim
Retention Time: 3.99 min
Area: 853788 counts
Height: 217760 cps
Start Time: 3.85 min
End Time: 4.13 min

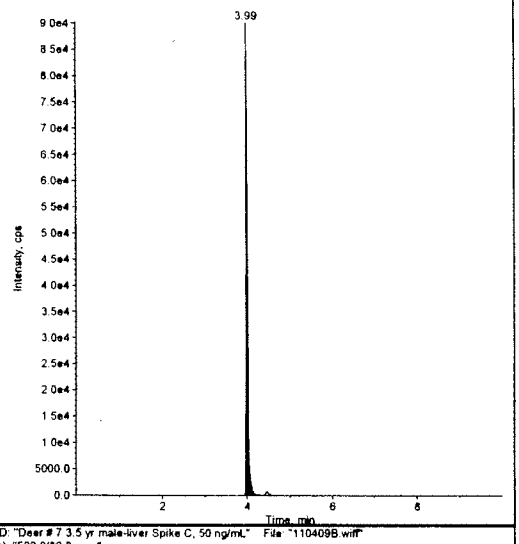



Sample Name: "LCS B" Sample ID: "MC4313 Deer Liver Spike B, 50 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 11
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:22:42 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 256109 counts
Height: 90227 cps
Start Time: 3.94 min
End Time: 4.18 min

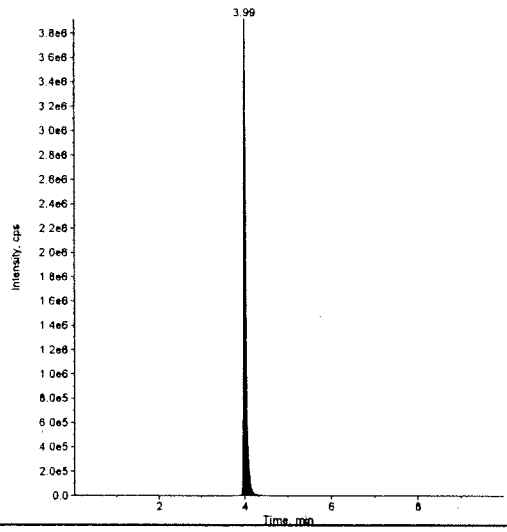



Sample Name: "L19346-4 Spk C" Sample ID: "Deer # 7 3.5 yr male-liver Spike C, 50 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 12
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 1900. ng/mL
Acq. Date: 11/4/2009
Acq. Time: 9:33:39 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Exponential Skim
Retention Time: 3.99 min
Area: 159870330 counts
Height: 3919047 cps
Start Time: 3.88 min
End Time: 4.43 min

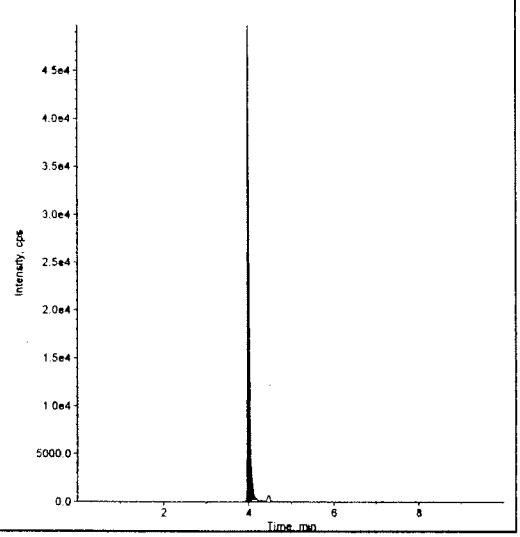



Sample Name: "L19346-4 Spk C" Sample ID: "Deer # 7 3.5 yr male-liver Spike C, 50 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 12
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:33:39 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 154898 counts
Height: 49690 cps
Start Time: 3.94 min
End Time: 4.18 min

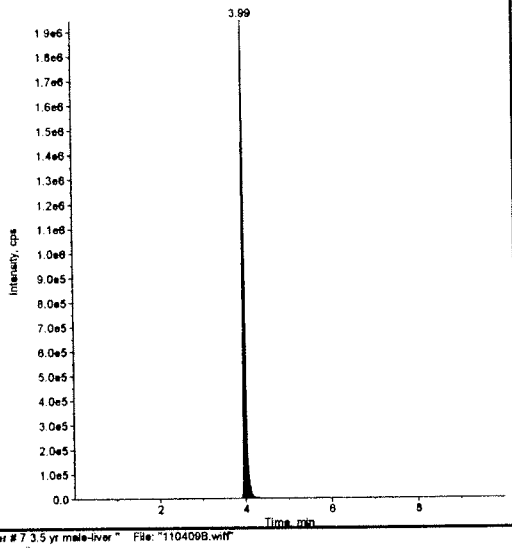


Sample Name: "L19346-2 Spk D" Sample ID: "Deer # 6 0.5 yr female-liver Spike D, 50 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 13
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 553. ng/mL
Date: 11/4/2009
Time: 9:44:36 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Smooths: 1
Width: 0.20
Height: 0.01
Peak Ratio: 5.00
Adj. Ratio: 4.00
Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Relative RT: No

Type: Exponential Skim
Retention Time: 3.99 min
Area: 7183644 counts
Height: 1973583 cps
Start Time: 3.87 min
End Time: 4.39 min

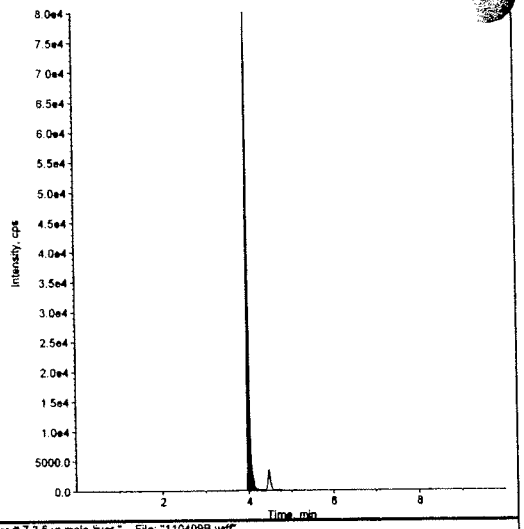



Sample Name: "L19346-2 Spk D" Sample ID: "Deer # 6 0.5 yr female-liver Spike D, 50 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 13
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:44:36 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 239591 counts
Height: 81284 cps
Start Time: 3.92 min
End Time: 4.18 min

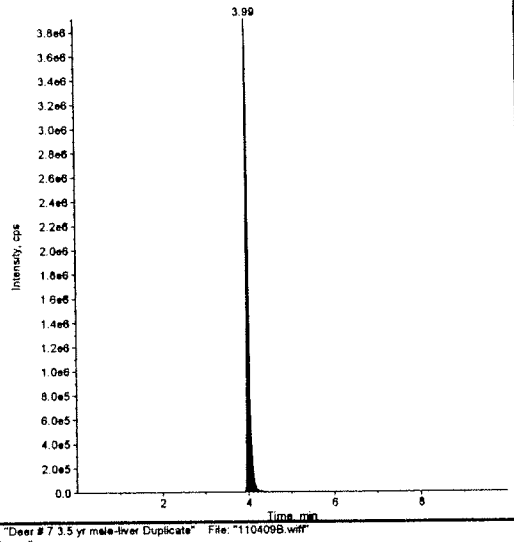



Sample Name: "L19346-4" Sample ID: "Deer # 7 3.5 yr male-liver" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 1860. ng/mL
Date: 11/4/2009
Acq. Time: 9:55:34 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Val. Ratio: 3.00
Window: 30.0 sec
Expected RT: 4.06 min
Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 16246768 counts
Height: 3957272 cps
Start Time: 3.88 min
End Time: 4.54 min

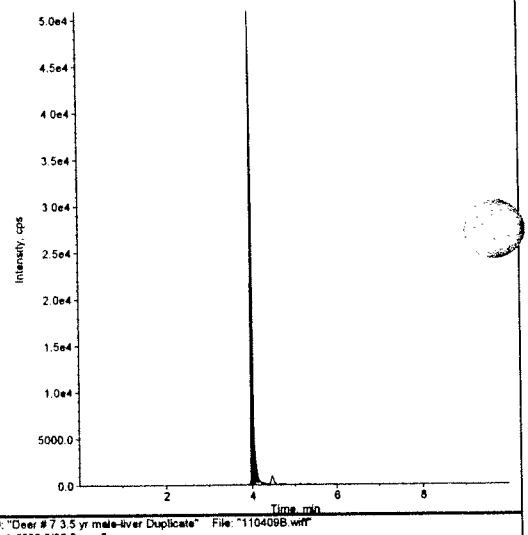



Sample Name: "L19346-4" Sample ID: "Deer # 7 3.5 yr male-liver" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 9:55:34 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 161301 counts
Height: 51455 cps
Start Time: 3.94 min
End Time: 4.18 min

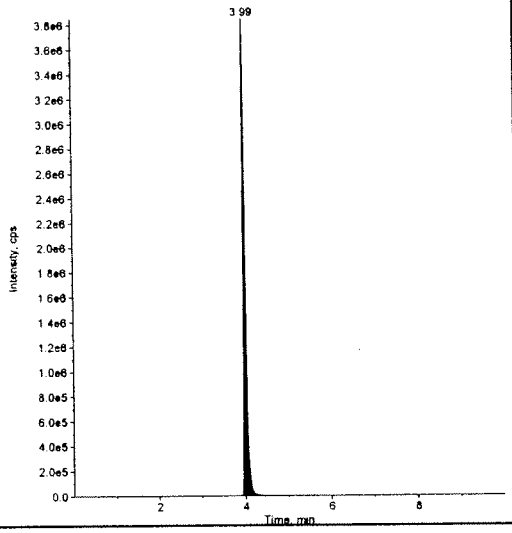



Sample Name: "L19346-4 Dup" Sample ID: "Deer # 7 3.5 yr male-liver Duplicate" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 1860. ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:06:31 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Height: 0.01
Peak Ratio: 5.00
Adj. Ratio: 4.00
Val. Ratio: 3.00
Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 15725840 counts
Height: 3854104 cps
Start Time: 3.88 min
End Time: 4.48 min

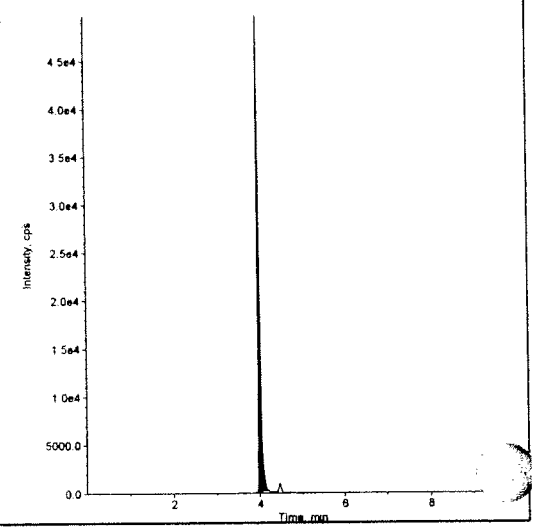



Sample Name: "L19346-4 Dup" Sample ID: "Deer # 7 3.5 yr male-liver Duplicate" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:06:31 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 156275 counts
Height: 49592 cps
Start Time: 3.94 min
End Time: 4.18 min

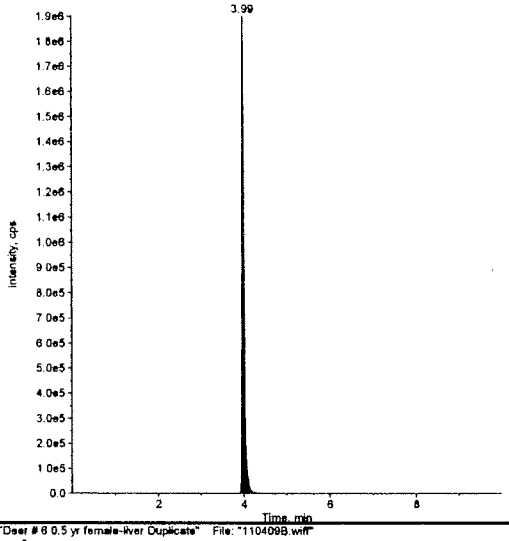


Sample Name: "L19346-2" Sample ID: "Deer # 6 0.5 yr female-liver " File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 524. ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:17:29 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 7071986 counts
Height: 1911229 cps
Start Time: 3.87 min
End Time: 4.40 min

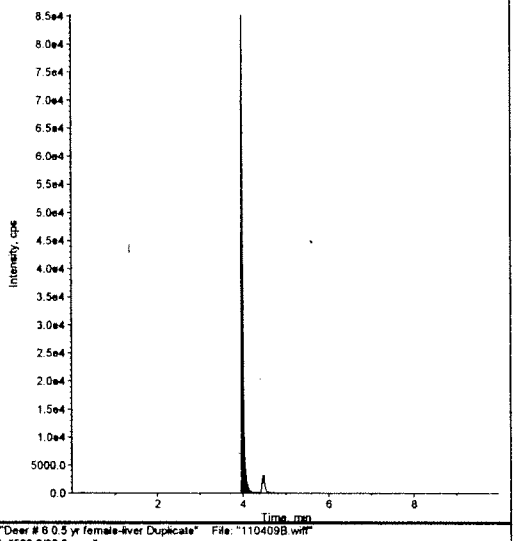



Sample Name: "L19346-2" Sample ID: "Deer # 6 0.5 yr female-liver " File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:17:29 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 248805 counts
Height: 85323 cps
Start Time: 3.94 min
End Time: 4.18 min

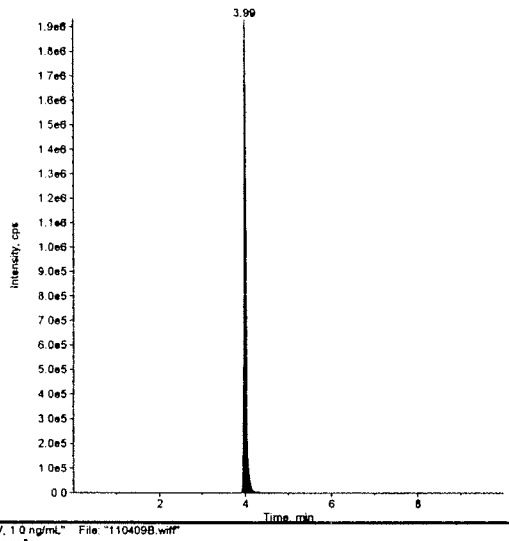



Sample Name: "L19346-2 Dup" Sample ID: "Deer # 6 0.5 yr female-liver Duplicate" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 565. ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:28:26 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Exponential Skim
Retention Time: 3.99 min
Area: 7080835 counts
Height: 1931972 cps
Start Time: 3.88 min
End Time: 4.17 min

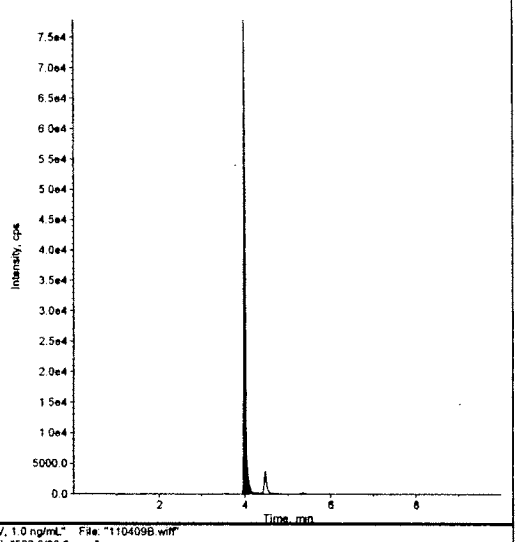



Sample Name: "L19346-2 Dup" Sample ID: "Deer # 6 0.5 yr female-liver Duplicate" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:28:26 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 230955 counts
Height: 77832 cps
Start Time: 3.94 min
End Time: 4.20 min

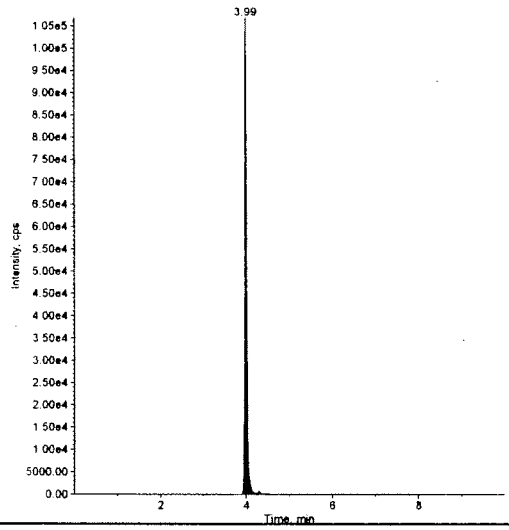



Sample Name: "SS33615" Sample ID: "CCV, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 18
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: 0.987 ng/mL
Acq. Date: 11/4/2009
Acq. Time: 10:39:24 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 3.99 min
Area: 353088 counts
Height: 108196 cps
Start Time: 3.88 min
End Time: 4.25 min

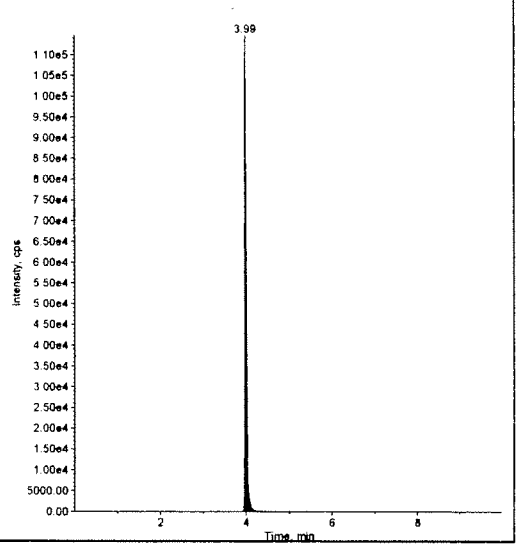



Sample Name: "SS33615" Sample ID: "CCV, 1.0 ng/mL" File: "110409B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 18
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/4/2009
Acq. Time: 10:39:24 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 327693 counts
Height: 116159 cps
Start Time: 3.92 min
End Time: 4.20 min



# RAW DATA REPORT

| | | | | | |
|---|---|---|---|---|---|
| Sponsor Study No: | NA | Limit of Quantitation: | 10 ng/g | Set No: | 110509B |
| MPI Study No: | L19345 | Injection Volume: | 15 µL | Analyst: | Mark Neeley |
| Analyte: | PFOS | Matrix: | Deer Liver | Instrument Type: | LC/MS/MS Unit # 9 |
| Ions Monitored: | 499 -> 80 | Sample Weight | 1.0 g | Extraction Date: | 11/05/09 |
| Site: | NA | | | Analyzed on: | 11/05/09 |

| MPI Research ID | Sponsor ID | Sample Code | Sample Index No. | Std. Conc. (ng/mL) | Internal Std. Conc. (ng/mL) | Aliquot Factor (AF) | Dilution Factor (DF) | Peak Area | Internal Standard Peak Area | Analyte Found (ng/g) | Amount Analyte Added (ng/g) | Recovery (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SS33618 | - | CS | 1 | 0.100 | 1.0 | - | - | 37266 | 332359 | - | - | - |
| SS33617 | - | CS | 2 | 0.200 | 1.0 | - | - | 69627 | 334640 | - | - | - |
| SS33616 | - | CS | 3 | 0.500 | 1.0 | - | - | 177633 | 329959 | - | - | - |
| SS33615 | - | CS | 4 | 1.00 | 1.0 | - | - | 358793 | 331156 | - | - | - |
| SS33614 | - | CS | 5 | 2.00 | 1.0 | - | - | 720938 | 323608 | - | - | - |
| SS33613 | - | CS | 6 | 5.00 | 1.0 | - | - | 1707206 | 327990 | - | - | - |
| Methanol Wash | - | W | 7 | - | - | - | - | 437 | 0 | - | - | - |
| Methanol Wash | - | W | 8 | - | - | - | - | 0 | 0 | - | - | - |
| Control | MC4313 Deer Liver Control | C | 9 | - | 1.0 | 20 | 1 | 236980 | 239124 | 18.6 | - | - |
| LCS A | MC4313 Deer Liver Spike A | LCS | 10 | - | 1.0 | 20 | 1 | 324143 | 211672 | 28.8 | 10 | 102 |
| LCS B | MC4313 Deer Liver Spike B | LCS | 11 | - | 1.0 | 20 | 1 | 851326 | 236356 | 67.9 | 50 | 99 |
| L19346-4 Spk C | Deer # 7 3.5 yr male-liver Spike C | LF | 12 | - | 1.0 | 20 | 100 | 603625 | 341198 | 3327 | 2000 | 59 |
| L19346-2 Spk D | Deer # 6 0.5 yr female-liver Spike D | LF | 13 | - | 1.0 | 20 | 100 | 146116 | 332878 | 817 | 250 | 85 |
| L19346-4 | Deer # 7 3.5 yr male-liver | S | 14 | - | 1.0 | 20 | 100 | 382303 | 334648 | 2145 | - | - |
| L19346-4 Dup | Deer # 7 3.5 yr male-liver Duplicate | S | 15 | - | 1.0 | 20 | 100 | 385034 | 333982 | 2164 | - | - |
| L19346-2 | Deer # 6 0.5 yr female-liver | S | 16 | - | 1.0 | 20 | 50 | 219746 | 340291 | 604 | - | - |
| L19346-2 Dup | Deer # 6 0.5 yr female-liver Duplicate | S | 17 | - | 1.0 | 20 | 50 | 209633 | 341253 | 574 | - | - |
| SS33615 | - | CCV | 18 | 1.00 | 1.0 | - | - | 357049 | 324699 | 1.03 | 1.0 | 103 |

Analyte Found (ng/g) = ((((analyte peak area/IS peak area) - intercept) / slope) x IS conc.) x AF x DF/Sample weight

Recovery (%) = $\frac{\text{[Analyte found (ng/g)-Analyte found in control (ng/g)]}}{\text{amount Analyte added (ng/g)}} \times 100$

Standard Curve : Linear (1/x weighted)
Intercept = 0.0058
Slope = 1.06
Coef. Of Det. = 0.9990

CS = Calibration standard
CCV = Continuing Calibration Verification
C = Control sample
S = Sample

LF = Lab fortified sample
FF = Field fortified sample
LCS = Laboratory Control Spike

W = Methanol Wash
ND = Not detected = Response between 0 and LOD
NQ = Not quantifiable = Response between LOD and LOQ

Spreadsheet prepared by: MDN / 11-6-09

MPI RESEARCH

3058 Research Drive
State College, PA 16801

Phone: 814-272-1039
Fax: 814-231-1580

# Internal Chain of Custody/Fortification Sheet

MPI Reseach Study Number: L19346 Matrix: Deer Liver
Sponsor Study/Protocol No: NA

The samples listed below were removed from Freezer No. 36
Time 9:30 AM Date 11-5-09 Initials MDN

| CLIENT SAMPLE ID | MPI RESEARCH ID NUMBER | WEIGHT (g) | FORTIFICATION (ng) |
|---|---|---|---|
| na | MC4313 Control | 1.0 | - |
| na | MC4313 LCS A | 1.0 | 10 |
| na | MC4313 LCS B | 1.0 | 50 |
| Deer #7 3.5 yr male-liver | L19346-4 Spk C | 1.0 | 2000 |
| Deer #6 0.5 yr female-liver | L19346-2 Spk D | 1.0 | 250 |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

| | Spiking Solution Used | | Volume Used for Spiking | Initial/Date |
|---|---|---|---|---|
| MC4313 LCS A | SS0033620 | (200 ng/mL) | 50 µL (50-250µL auto-pipette) | MDN / 11-5-09 |
| MC4313 LCS B | SS0033619 | (1000 ng/mL) | 50 µL (50-250µL auto-pipette) | MDN / 11-5-09 |
| L19346-4 Spk C | SS0032983 | (100000 ng/mL) | 20 µL (5-100µL auto-pipette) | MDN / 11-5-09 |
| L19346-2 Spk D | SS0033619 | (1000 ng/mL) | 250 µL (50-250µL auto-pipette) | MDN / 11-5-09 |
| All Samples | SS0032652 | (100 ng/mL) | 200 µL (50-250µL auto-pipette) | MDN / 11-5-09 |

All samples were weighed on balance 20.
Time 9:31 AM Date 11-5-09 Initials MDN

After weighing samples were returned to Freezer No. 36
Time 9:36 AM Date 11-5-09 Initials MDN

**Comments:**

**Analysis Summary:**

Data Set: 110509B Initials/Date: MDN / 11-5-09
Data Set: — Initials/Date: — / —
Data Set: — Initials/Date: — / —

Data extraction/analysis data verified by: AMB Date: 11/09/09

MPI RESEARCH

3058 Research Drive
State College, PA 16801

Phone: 814-272-1039
Fax: 814-231-1580

# SAMPLE EXTRACTION AND ANALYSIS TRACKING SHEET

MPI STUDY NUMBER: L19346
MATRIX: Deer Liver

METHOD: V5821
ANALYTES: PFOA & PFOS

PROTOCOL NUMBER: NA

| Client ID | MPI Research ID | STEP 1 | STEP 2 | STEP 3 | STEP 4 | STEP 5 | STEP 6 | Dilutions (mL/mL) | STEP 7 | Dilutions (mL/mL) | STEP 8 | Reagents/ Materials | ExyLims ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | — | | — | — | Acetonitrile | RE47377 |
| na | MC4313 Control | | | | | | | — | | — | — | Water | RE47635 |
| na | MC4313 LCS A | | | | | | | — | | — | — | Methanol | RE47875 |
| na | MC4313 LCS B | | | | | | | ~~0.02/1.0~~ (*) | | — | — | SPE Column | MA48343 |
| Deer #7 3.5 yr male-liver | L19346-4 Spk C | | | | | | | ~~0.02/1.0~~ (*) | | — | — | *Initials/Date* | MDN 11-5-09 |
| Deer #6 0.5 yr female-liver | L19346-2 Spk D | | | | | | | | | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | **HPLC** | |
| - | - | - | - | - | - | - | - | - | - | - | - | Methanol | RE47850 |
| - | - | - | - | - | - | - | - | - | - | - | - | 2 mM Ammonium Acetate in Water | SL45925 |
| - | - | - | - | - | - | - | - | - | - | - | - | | |
| *Initials/Date | - | MDN 11-5-09 | MDN 11-5-09 | MDN 11-5-09 | MDN 11-5-09 | MDN 11-5-09 | MDN 11-5-09 | MDN 11-5-09 | MDN 11-5-09 | — | — | *Initials/Date* | MDN 11-5-09 |

STEP 1: Weigh 1 g of liver into a 50 mL disposable centrifuge tube and fortify if appropriate. Add 0.2 mL of internal standard (100 ng/mL).
STEP 2: Add water to the sample for a final volume of 10 mL. Homogenize using a tissumizer for ~ 1 minute.
STEP 3: Transfer 1.0 mL of the sample to a 15 mL centrifuge tube. Add 5 mL of ACN and shake for ~20 minutes on a wrist action shaker.
STEP 4: Centrifuge tubes at ~3000 for ~5 minutes. Carefully decant supernatant into a 50 mL disposable centrifuge tube and add 35 mL of water.
STEP 5: SPE Cleanup: Condition column with ~10 mL of methanol followed by ~5 mL of water at a rate of ~1 drop/second. Discard all washes. Do not allow column to go dry.
STEP 6: Load the sample onto the SPE Column. Discard the eluate. Elute with 2 mL of methanol into a 15 mL centrifuge tube. Transfer the extract into autosampler vials.
STEP 7: LC/MS/MS analysis.
STEP 8: LC/MS/MS reanalysis.

*Initials and date under each step indicates the personnel that performed this step.

COMMENTS: (*) 0.01 mL/1.0 mL (**) MDN 11-5-09

Final extracts stored in refrigerator 34 Initials: MDN Date: 11-5-09

MPN 11-5-09

oject: \\sc1wp5556\mdrive\PE SCIEX DATA\Projects\P5195 Batch:09_110509B Liver Tab:Sample Set:SET1 AcqMethod:P5195_1029(

Sa

| | Sample Name | Sample ID | Vial Position | Data File |
|---|---|---|---|---|
| | SS33618 | Calibration Standard, 0.1 ng/mL | 1 | 09_110509B\110509B |
| 2 | SS33617 | Calibration Standard, 0.2 ng/mL | 2 | 09_110509B\110509B |
| 3 | SS33616 | Calibration Standard, 0.5 ng/mL | 3 | 09_110509B\110509B |
| | SS33615 | Calibration Standard, 1.0 ng/mL | 4 | 09_110509B\110509B |
| 5 | SS33614 | Calibration Standard, 2.0 ng/mL | 5 | 09_110509B\110509B |
| | SS33613 | Calibration Standard, 5.0 ng/mL | 6 | 09_110509B\110509B |
| | Methanol Wash | Methanol Wash | 91 | 09_110509B\110509B |
| 8 | Methanol Wash | Methanol Wash | 91 | 09_110509B\110509B |
| | Control | MC4313 Deer Liver Control | 81 | 09_110509B\110509B |
| 0 | LCS A | MC4313 Deer Liver Spike A, 10 ng/mL | 82 | 09_110509B\110509B |
| 11 | LCS B | MC4313 Deer Liver Spike B, 50 ng/mL | 83 | 09_110509B\110509B |
| 2 | L19346-4 Spk C | Deer # 7 3.5 yr male-liver Spike C, 2000 ng/mL, DF=100 | 84 | 09_110509B\110509B |
| 3 | L19346-2 Spk D | Deer # 6 0.5 yr female-liver Spike D, 250 ng/mL, DF=~~50~~ 100 (MPN 11-5-09) | 85 | 09_110509B\110509B |
| 14 | L19346-4 | Deer # 7 3.5 yr male-liver, DF=100 | 86 | 09_110509B\110509B |
| 5 | L19346-4 Dup | Deer # 7 3.5 yr male-liver Duplicate, DF=100 | 87 | 09_110509B\110509B |
| 6 | L19346-2 | Deer # 6 0.5 yr female-liver, DF=50 | 88 | 09_110509B\110509B |
| 17 | L19346-2 Dup | Deer # 6 0.5 yr female-liver Duplicate, DF=50 | 89 | 09_110509B\110509B |
| 8 | S33615 | CCV, 1.0 ng/mL | 4 | 09_110509B\110509B |

# LC/MS/MS SYSTEM AND OPERATING CONDITIONS

Protocol No: NA

MPI Study No: L19346

**Instrument:** AB API 4000 Biomolecular Mass Analyzer, **(LC/MS/MS #9)**
SCIEX Turbo Ion Spray Liquid Introduction Interface
Turbo Ion spray temperature = 450 °C

Computer: Dell OptiPlex GX 110

Software: PE Sciex Analyst 1.4

HPLC Equipment: Hewlett Packard (HP) Series 1100
HP Quat Pump
HP Vacuum Degasser
HP Autosampler
HP Column Oven

HPLC Column: Phenomenex Luna C8 (2) Mercury, 2cm x 4mm, 3 µm (ExyLIMS ID: MA0052622)

Column Temperature: 35°C

Mobile Phase (A): 2 mM Ammonium Acetate in Water (ExyLIMS ID: SL0045925)

Mobile Phase (B): Methanol (ExyLIMS ID: RE0047880)

Injected Volume: 15 µL

| Time (min) | % A | % B | Flow Rate (µL/min) |
|---|---|---|---|
| 0.0 | 90 | 10 | 750 |
| 0.5 | 90 | 10 | 750 |
| 2.0 | 10 | 90 | 750 |
| 5.0 | 10 | 90 | 750 |
| 5.1 | 0 | 100 | 750 |
| 6.0 | 0 | 100 | 750 |
| 6.1 | 90 | 10 | 750 |
| 10.0 | 90 | 10 | 750 |

Ions monitored:

| Analyte | Parent ion | Daughter ion(s) | Dwell (secs) |
|---|---|---|---|
| PFOA | 413 | 369 | 0.200 |
| PFOS | 499 | 80 | 0.200 |
| $^{13}$C PFOA (m+2) Internal Standard | 415 | 370 | 0.200 |
| $^{13}$C PFOS (m+4) Internal Standard | 503 | 80 | 0.200 |

Analyst: Mark Neeley MNN 11-5-09
MPI Research, Inc.
3058 Research Drive, State College, PA 16801
Phone: (814) 272-1039 FAX: (814) 231-1580

All Handwritten Peak ID's by: MNN 11-6-09

MDN 11-5-09

## Acquisition Information:

| | |
|---|---|
| cquisition Method: | P5195_102909.dam |
| reated: | Thursday October 29 2009 09: 35: 12 AM |
| Last Modified: | Friday October 30 2009 10: 56: 20 AM |
| Comment: | PFOA PFOS |
| ynchronization Mode: | LC Sync |
| uto-Equilibration: | Off |
| Acquisition Duration: | 10min0sec |
| umber Of Scans: | 732 |
| eriods In File: | 1 |
| Acquisition Module: | Acquisition Method |
| Software version | Analyst 1.4.2 |

Period 1:

| | |
|---|---|
| cans in Period: | 732 |
| elative Start Time: | 0.00 msec |
| Experiments in Period: | 1 |

eriod 1 Experiment 1:

| | |
|---|---|
| Scan Type: | MRM (MRM) |
| olarity: | Negative |
| can Mode: | N/A |
| on Source: | Turbo Spray |
| Resolution Q1: | Unit |
| Resolution Q3: | Unit |
| Intensity Thres.: | 0.00 cps |
| Settling Time: | 0.0000 msec |
| MR Pause: | 5.0070 msec |
| CA: | No |
| tep Size: | 0.00 amu |

| Q1 Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 13.00 | 369.00 | 200.00 | DP | -32.00 | -32.00 |
| | | | CE | -18.00 | -18.00 |
| | | | CXP | -13.20 | -13.20 |

| Q1 Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 415.00 | 370.00 | 200.00 | DP | -32.00 | -32.00 |
| | | | CE | -18.00 | -18.00 |
| | | | CXP | -13.20 | -13.20 |

| Q1 Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 499.00 | 80.00 | 200.00 | DP | -83.00 | -83.00 |
| | | | CE | -88.00 | -88.00 |
| | | | CXP | -6.00 | -6.00 |

| Q1 Mass (amu) | Q3 Mass (amu) | Dwell (msec) | Param | Start | Stop |
|---|---|---|---|---|---|
| 50[illegible] | 80.00 | 200.00 | DP | -83.00 | -83.00 |
| | | | CE | -88.00 | -88.00 |

MDH 11-5-09

CXF -6.00 -6.00

arameter Table(Period 1 Experiment 1):
AD: 7.00
CUR: 20.00
GS1: 50.00
S2: 40.00
S: -4500.00
TEM: 450.00
ihe: ON
F -10.00

Agilent LC Pump Method Properties
Pump Model: Agilent 1100 LC Quaternary Pump
inimum Pressure (psi): 0.0
aximum Pressure (psi): 5801.0
Compressibility: 100.0
ead Volume (µl): 40.0
troke Volume (µl): -1.0
aximum Flow Ramp (ml/min²): 100.0
Maximum Pressure Ramp (psi/sec): 290.0

tep Table:

| Step | Total Time(min) | Flow Rate(µl/min) | A (%) | B (%) | C (%) | D (%) | TE#1 | TE#2 | TE#3 | TE#4 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.00 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |
| | 0.50 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |
| | 2.00 | 750 | 0.0 | 0.0 | 10.0 | 90.0 | open | open | open | open |
| 3 | 5.00 | 750 | 0.0 | 0.0 | 10.0 | 90.0 | open | open | open | open |
| 4 | 5.10 | 750 | 0.0 | 0.0 | 0.0 | 100.0 | open | open | open | open |
| | 6.00 | 750 | 0.0 | 0.0 | 0.0 | 100.0 | open | open | open | open |
| | 6.10 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |
| 7 | 10.00 | 750 | 0.0 | 0.0 | 90.0 | 10.0 | open | open | open | open |

rimary Flow Rate (ul/min): 200.0
Flow Sensor Calibration Table Index: 0

gilent Column Oven Properties
eft Temperature (°C): 35.00
Right Temperature (°C): 35.00
emperature Tolerance +/- (°C): 1.00
tart Acquisition Tolerance +/- (°C): 0.50
ime Table (Not Used)
Column Switching Valve Installed
osition for first sample in the batch: Left
se same position for all samples in the batch

Agilent Autosampler Properties
utosampler Model: Agilent 1100 Wellplate Autosampler
yringe Size (µl): 100
Injection Volume (µl): 15.00
Draw Speed (µl/min): 200.0
ject Speed (µl/min): 200.0
eedle Level (mm): 0.00
Temperature Control Enabled
etpoint (4 - 40 C): 4
ash Location: Flush Port
ash Time (1 - 999 sec): 10

utomatic Delay Volume Reduction Not Used

MMN 11-5-09

| | |
|---|---|
| Equilibration Time (sec): | 2 |
| Enable Vial/Well Bottom Sensing | No |
| Use Custom Injector Program | No |

lyst Version: 1.4.2
rinting Time: 8:58:44 AM
rinting Date: Friday, November 06, 2009

MPI Study: L19346
MPI Set No.: 110509B

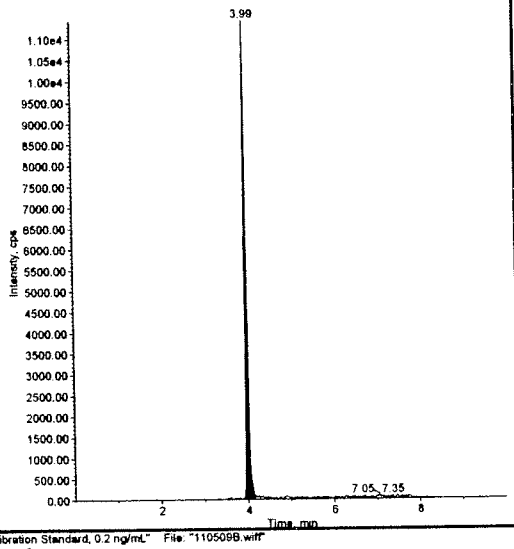
Operator: Mark Neeley
Instrument No.: LC/MS/MS #9

Sample Name: "SS33618" Sample ID: "Calibration Standard, 0.1 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 1
Sample Type: Standard
Concentration: 0.100 ng/mL
Calculated Conc: 0.100 ng/mL
Date: 11/5/2009
Time: 8:44:01 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 37266 counts
Height: 11421 cps
Start Time: 3.88 min
End Time: 4.20 min

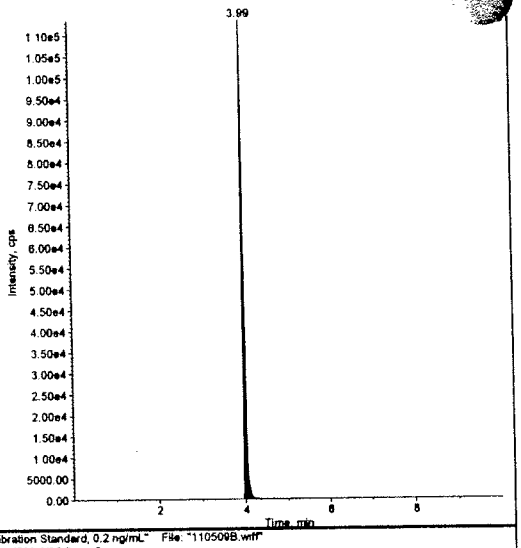



Sample Name: "SS33618" Sample ID: "Calibration Standard, 0.1 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 1
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 8:44:01 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 332359 counts
Height: 113862 cps
Start Time: 3.94 min
End Time: 4.20 min

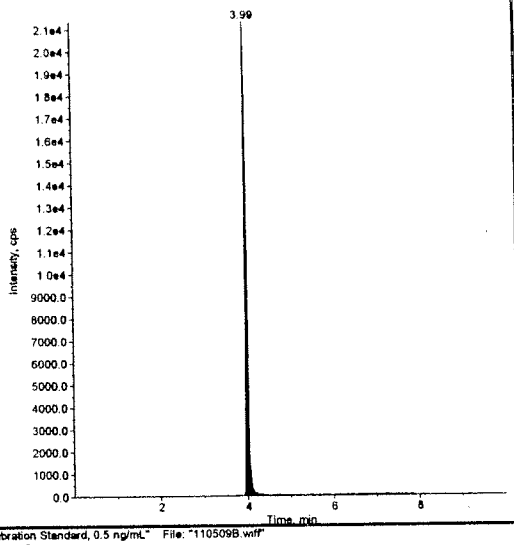



Sample Name: "SS33617" Sample ID: "Calibration Standard, 0.2 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 2
Sample Type: Standard
Concentration: 0.200 ng/mL
Calculated Conc: 0.191 ng/mL
Date: 11/5/2009
Acq. Time: 8:54:59 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 69627 counts
Height: 21303 cps
Start Time: 3.90 min
End Time: 4.18 min

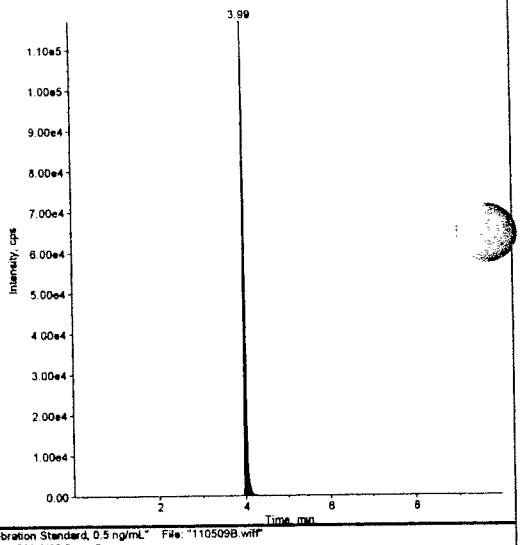



Sample Name: "SS33617" Sample ID: "Calibration Standard, 0.2 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 2
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 8:54:59 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 334640 counts
Height: 117108 cps
Start Time: 3.94 min
End Time: 4.20 min

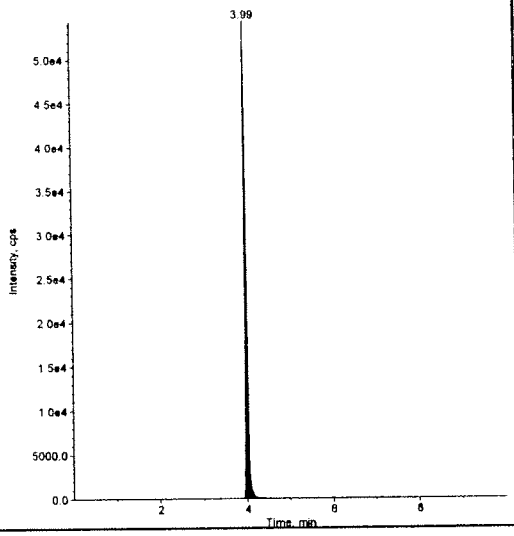



Sample Name: "SS33616" Sample ID: "Calibration Standard, 0.5 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 3
Sample Type: Standard
Concentration: 0.500 ng/mL
Calculated Conc: 0.502 ng/mL
Acq. Date: 11/5/2009
Acq. Time: 9:05:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 177633 counts
Height: 54340 cps
Start Time: 3.90 min
End Time: 4.31 min

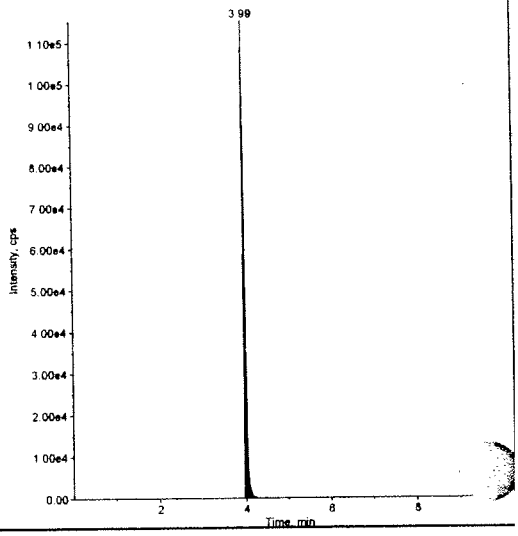



Sample Name: "SS33616" Sample ID: "Calibration Standard, 0.5 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 3
Sample Type: Standard
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 9:05:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 329959 counts
Height: 115399 cps
Start Time: 3.94 min
End Time: 4.20 min




[ Research, Inc.

Initials MDH

Date 11-6-09

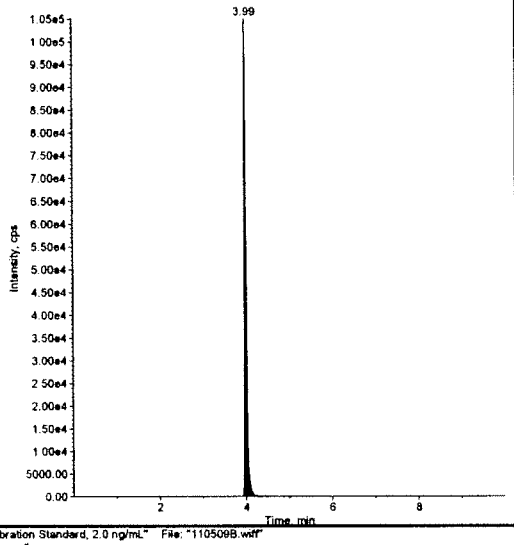
Sample Index 1 To 18

Sample Name: "SS33615" Sample ID: "Calibration Standard, 1.0 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        4
Sample Type:      Standard
Concentration:      1.00     ng/mL
Calculated Conc:    1.02     ng/mL
Acq. Date:       11/5/2009
Acq. Time:       9:16:18 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:   15.73    cps
Area Threshold:    78.65    cps
Num. Smooths:        1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        4.06     min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:     3.99     min
Area:            358793    counts
Height:          105980    cps
Start Time:         3.87     min
End Time:           4.33     min
```

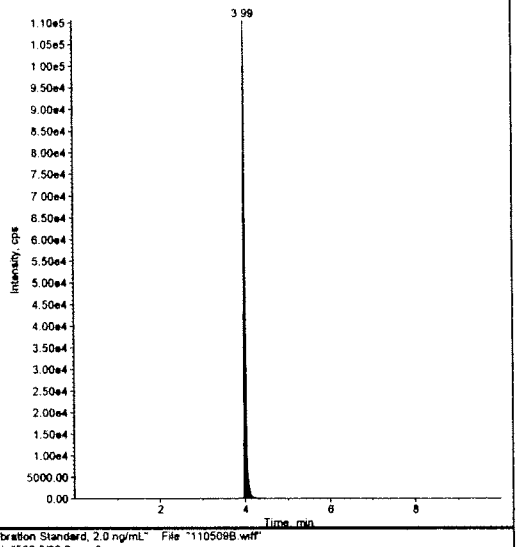



Sample Name: "SS33615" Sample ID: "Calibration Standard, 1.0 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        4
Sample Type:      Standard
Concentration:      1.00     ng/mL
Calculated Conc:    N/A
Acq. Date:       11/5/2009
Acq. Time:       9:16:18 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:  140.21    cps
Area Threshold:   701.07    cps
Num. Smooths:        1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        4.06     min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:     3.99     min
Area:            331156    counts
Height:          112630    cps
Start Time:         3.94     min
End Time:           4.20     min
```

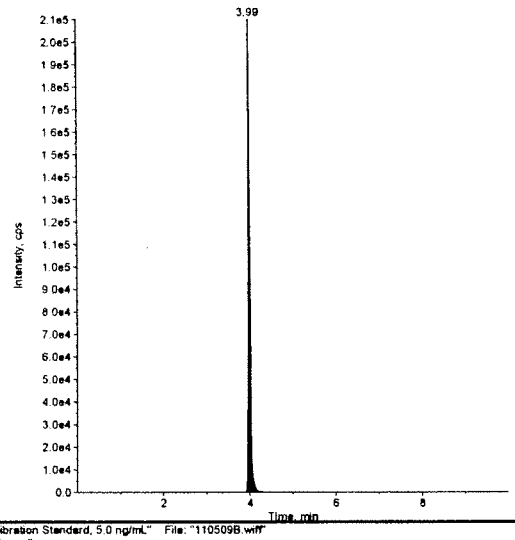



Sample Name: "SS33614" Sample ID: "Calibration Standard, 2.0 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        5
Sample Type:      Standard
Concentration:      2.00     ng/mL
Calculated Conc:    2.09     ng/mL
Acq. Date:       11/5/2009
Acq. Time:       9:27:12 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:   15.73    cps
Area Threshold:    78.65    cps
Num. Smooths:        1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        4.06     min
Use Relative RT:    No

Int. Type:       Exponential Skim
Retention Time:     3.99     min
Area:            720938    counts
Height:          212258    cps
Start Time:         3.88     min
End Time:           4.17     min
```

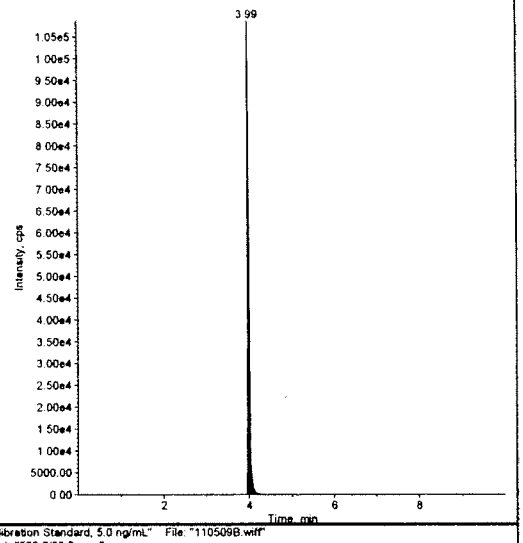



Sample Name: "SS33614" Sample ID: "Calibration Standard, 2.0 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        5
Sample Type:      Standard
Concentration:      1.00     ng/mL
Calculated Conc:    N/A
Acq. Date:       11/5/2009
Acq. Time:       9:27:12 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:  140.21    cps
Area Threshold:   701.07    cps
Num. Smooths:        1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        4.06     min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:     3.99     min
Area:            323608    counts
Height:          110274    cps
Start Time:         3.92     min
End Time:           4.20     min
```

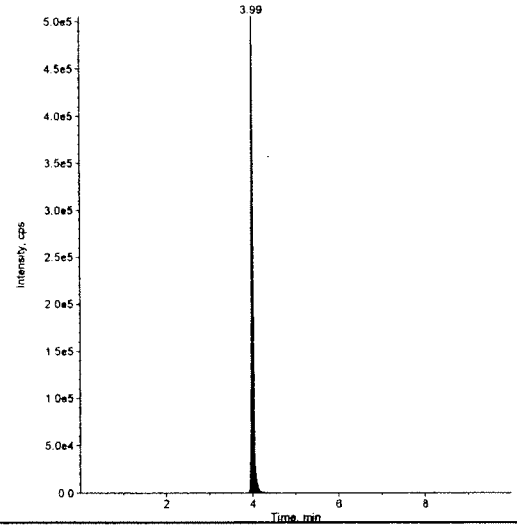



Sample Name: "SS33613" Sample ID: "Calibration Standard, 5.0 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        6
Sample Type:      Standard
Concentration:      5.00     ng/mL
Calculated Conc:    4.90     ng/mL
Acq. Date:       11/5/2009
Acq. Time:       9:38:07 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:   15.73    cps
Area Threshold:    78.65    cps
Num. Smooths:        1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        4.06     min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:     3.99     min
Area:           1707206    counts
Height:          505931    cps
Start Time:         3.88     min
End Time:           4.37     min
```

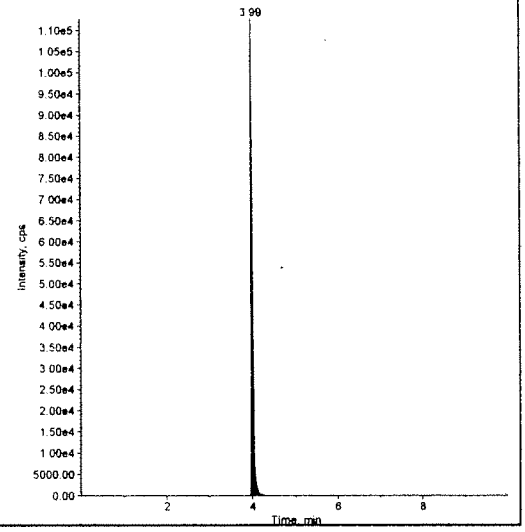



Sample Name: "SS33613" Sample ID: "Calibration Standard, 5.0 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        6
Sample Type:      Standard
Concentration:      1.00     ng/mL
Calculated Conc:    N/A
Acq. Date:       11/5/2009
Acq. Time:       9:38:07 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:  140.21    cps
Area Threshold:   701.07    cps
Num. Smooths:        1
Sep. Width:         0.20
Sep. Height:        0.01
Exp. Peak Ratio:    5.00
Exp. Adj. Ratio:    4.00
Exp. Val. Ratio:    3.00
RT Window:          30.0     sec
Expected RT:        4.06     min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:     3.99     min
Area:            327990    counts
Height:          112712    cps
Start Time:         3.94     min
End Time:           4.18     min
```




: Research, Inc.

ılyst Version: 1.4.2
rinting Time: 8:58:44 AM
rinting Date: Friday, November 06, 2009

MPI Study: L19346
MPI Set No.: 110509B

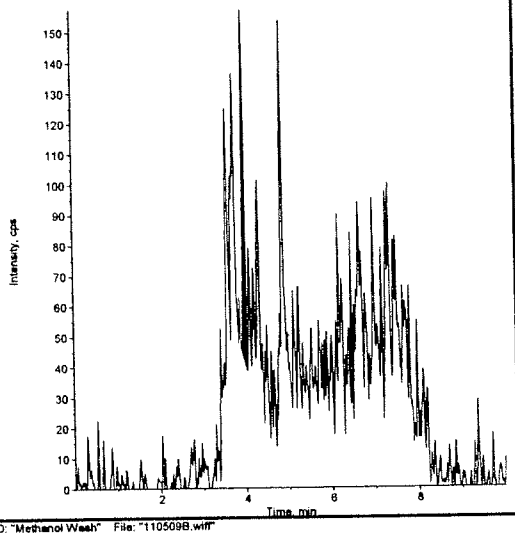
Operator: Mark Neeley
Instrument No.: LC/MS/MS #9

Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 7
Sample Type: Solvent
Concentration: 0.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 9:49:02 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

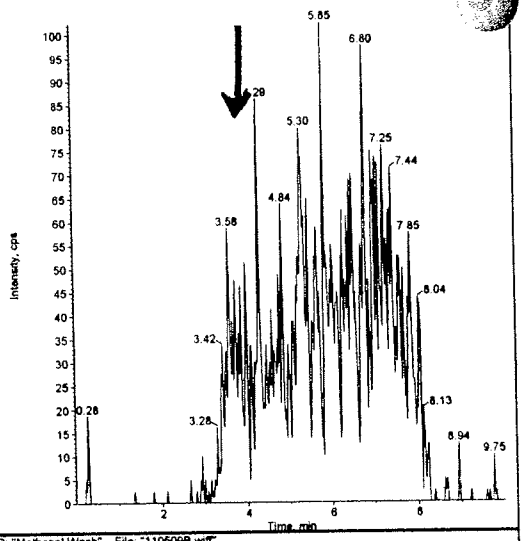
Int. Type: Base To Base
Retention Time: 3.99 min
Area: 437 counts
Height: 116 cps
Start Time: 3.90 min
End Time: 4.05 min




Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 7
Sample Type: Solvent
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 9:49:02 PM

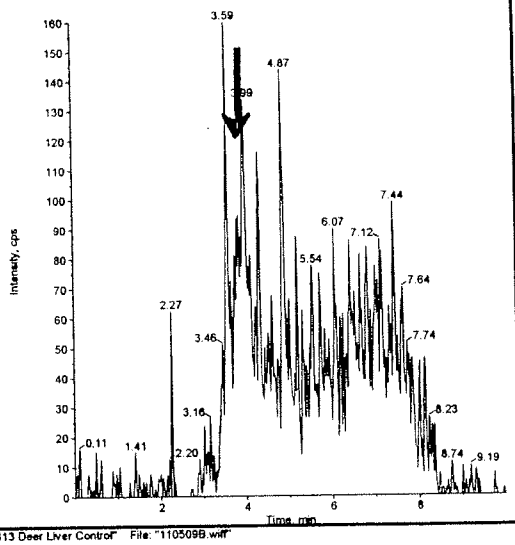
Modified: No




Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 8
Sample Type: Solvent
Concentration: 0.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 9:59:56 PM

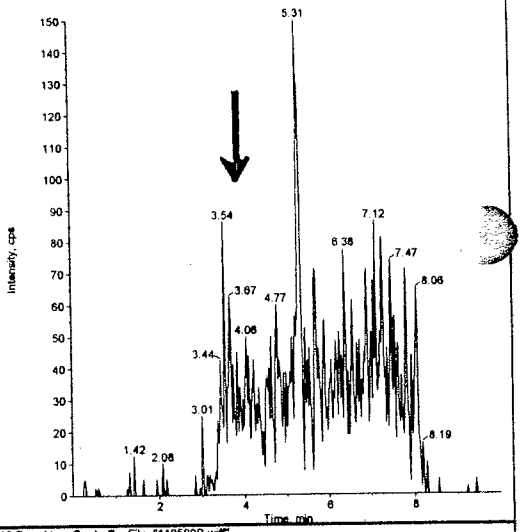
Modified: No




Sample Name: "Methanol Wash" Sample ID: "Methanol Wash" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 8
Sample Type: Solvent
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 9:59:56 PM

Modified: No

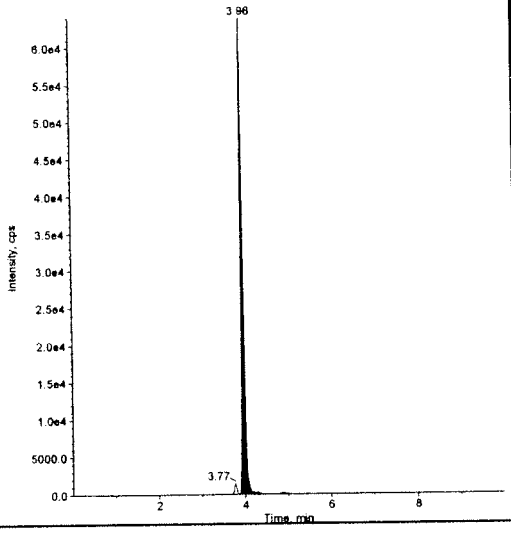



Sample Name: "Control" Sample ID: "MC4313 Deer Liver Control" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 9
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 18.6 ng/mL
Acq. Date: 11/5/2009
Acq. Time: 10:10:49 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 3.96 min
Area: 236980 counts
Height: 63843 cps
Start Time: 3.84 min
End Time: 4.20 min

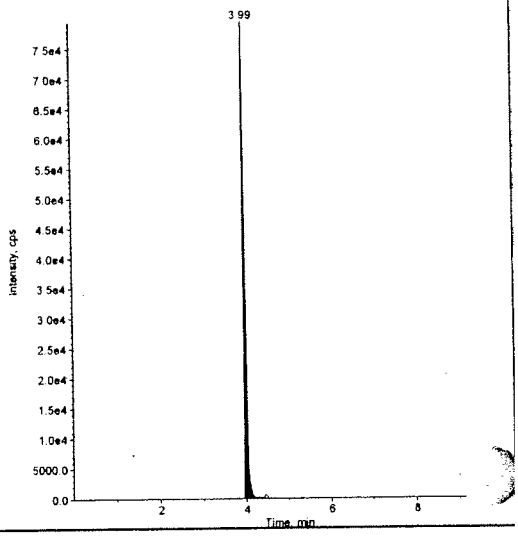



Sample Name: "Control" Sample ID: "MC4313 Deer Liver Control" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 10:10:49 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 239124 counts
Height: 80043 cps
Start Time: 3.91 min
End Time: 4.18 min



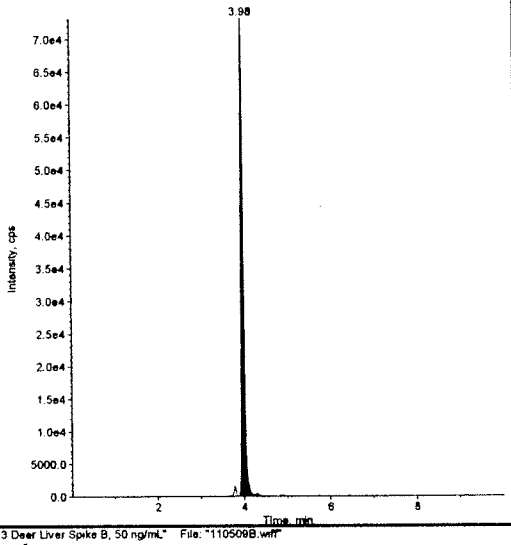

N : Research, Inc.

Sample Name: "LCS A" Sample ID: "MC4313 Deer Liver Spike A, 10 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 10
Sample Type: QC
Concentration: 10.0 ng/mL
Calculated Conc: 28.7 ng/mL
Acq. Date: 11/5/2009
Acq. Time: 10:21:55 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Exponential Skim
Retention Time: 3.98 min
Area: 324143 counts
Height: 73441 cps
Start Time: 3.85 min
End Time: 4.17 min

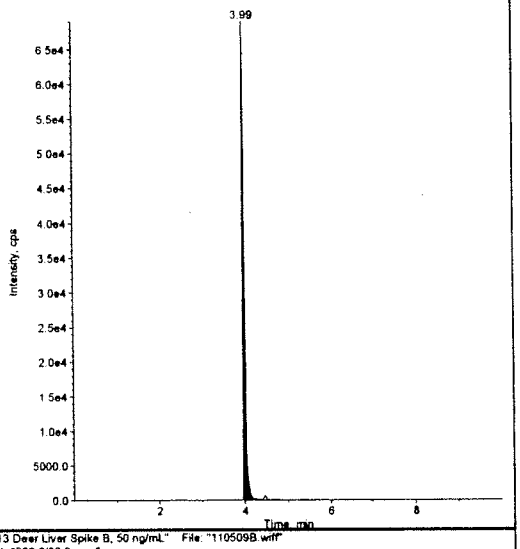



Sample Name: "LCS A" Sample ID: "MC4313 Deer Liver Spike A, 10 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 10
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 10:21:55 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 211672 counts
Height: 69794 cps
Start Time: 3.94 min
End Time: 4.20 min

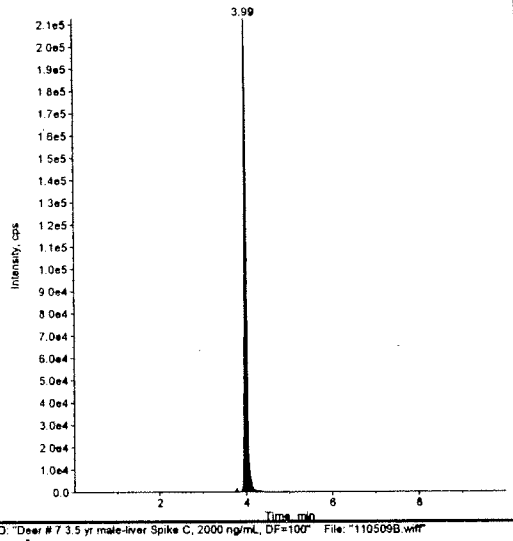



Sample Name: "LCS B" Sample ID: "MC4313 Deer Liver Spike B, 50 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 11
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 67.8 ng/mL
Acq. Date: 11/5/2009
Acq. Time: 10:32:51 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Exponential Skim
Retention Time: 3.99 min
Area: 851326 counts
Height: 213842 cps
Start Time: 3.88 min
End Time: 4.17 min

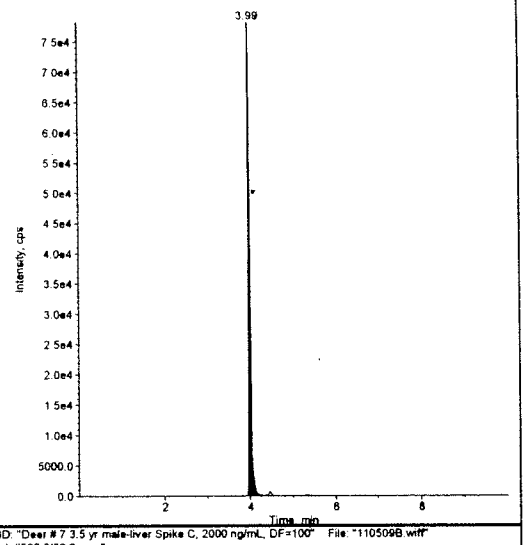



Sample Name: "LCS B" Sample ID: "MC4313 Deer Liver Spike B, 50 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 11
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 10:32:51 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 236356 counts
Height: 78225 cps
Start Time: 3.92 min
End Time: 4.18 min

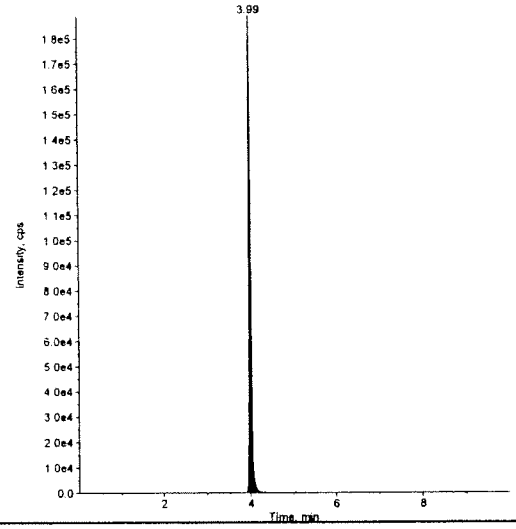



Sample Name: "L19346-4 Spk C" Sample ID: "Deer # 7 3.5 yr male-liver Spike C, 2000 ng/mL, DF=100" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 12
Sample Type: QC
Concentration: 2000. ng/mL
Calculated Conc: 3320. ng/mL
Acq. Date: 11/5/2009
Acq. Time: 10:43:46 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 15.73 cps
Area Threshold: 78.65 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 603625 counts
Height: 189076 cps
Start Time: 3.88 min
End Time: 4.25 min

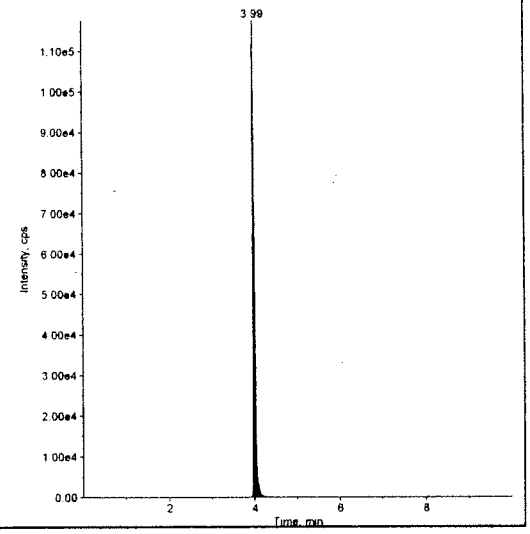



Sample Name: "L19346-4 Spk C" Sample ID: "Deer # 7 3.5 yr male-liver Spike C, 2000 ng/mL, DF=100" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

Sample Index: 12
Sample Type: QC
Concentration: 1.00 ng/mL
Calculated Conc: N/A
Acq. Date: 11/5/2009
Acq. Time: 10:43:46 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 140.21 cps
Area Threshold: 701.07 cps
Num. Smooths: 1
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 4.06 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 3.99 min
Area: 341198 counts
Height: 117801 cps
Start Time: 3.92 min
End Time: 4.18 min

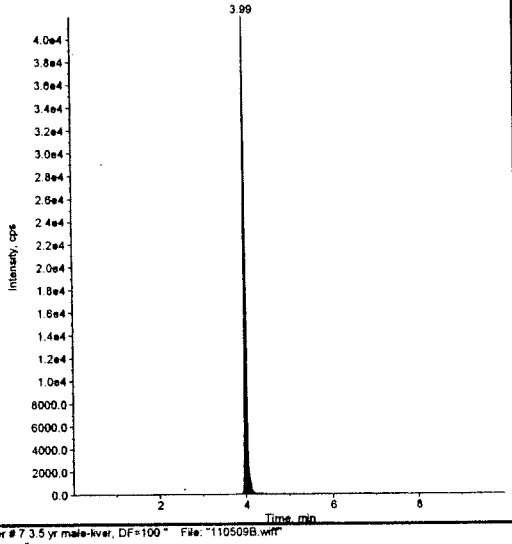


Sample Name: "L19346-2 Spk D" Sample ID: "Deer # 8 0.5 yr female-liver Spike D, 250 ng/mL, DF=100" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        13
Sample Type:          QC
Concentration:      250.     ng/mL
Calculated Conc:    816.     ng/mL
Acq. Date:        11/5/2009
Acq. Time:        10:54:43 PM

Modified:            No
Proc. Algorithm:  Analyst Classic
Bunching Factor:     1
Noise Threshold:   15.73    cps
Area Threshold:    78.65    cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0     sec
Expected RT:         4.06    min
Use Relative RT:     No

Int. Type:        Base To Base
Retention Time:      3.99    min
Area:            146116    counts
Height:           41978    cps
Start Time:          3.83    min
End Time:            4.22    min
```

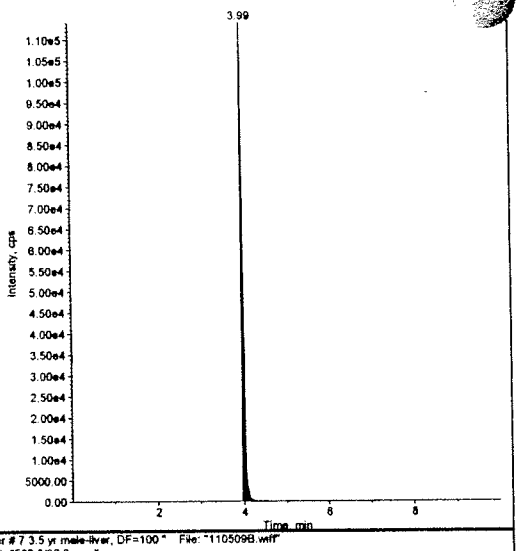



Sample Name: "L19346-2 Spk D" Sample ID: "Deer # 6 0.5 yr female-liver Spike D, 250 ng/mL, DF=100" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        13
Sample Type:          QC
Concentration:       1.00    ng/mL
Calculated Conc:     N/A
Acq. Date:        11/5/2009
Acq. Time:        10:54:43 PM

Modified:            No
Proc. Algorithm:  Analyst Classic
Bunching Factor:     1
Noise Threshold:   140.21    cps
Area Threshold:    701.07    cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0     sec
Expected RT:         4.06    min
Use Relative RT:     No

Int. Type:        Base To Base
Retention Time:      3.99    min
Area:            332878    counts
Height:          114091    cps
Start Time:          3.94    min
End Time:            4.18    min
```

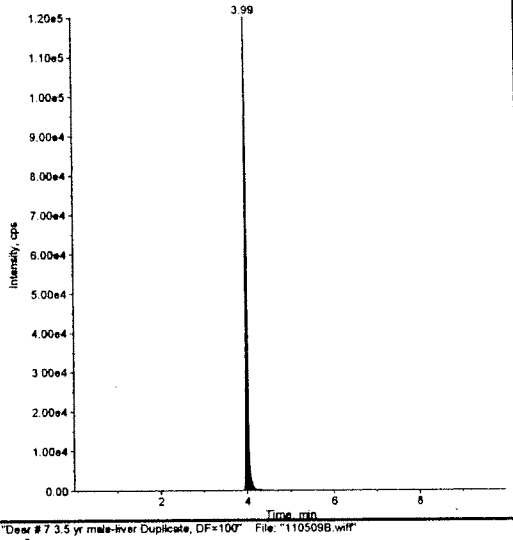



Sample Name: "L19346-4" Sample ID: "Deer # 7 3.5 yr male-liver, DF=100" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        14
Sample Type:      Unknown
Concentration:       N/A
Calculated Conc:    2140.    ng/mL
Acq. Date:        11/5/2009
Acq. Time:        11:05:39 PM

Modified:            No
Proc. Algorithm:  Analyst Classic
Bunching Factor:     1
Noise Threshold:   15.73    cps
Area Threshold:    78.65    cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0     sec
Expected RT:         4.06    min
Use Relative RT:     No

Int. Type:        Exponential Skim
Retention Time:      3.99    min
Area:            382103    counts
Height:          120514    cps
Start Time:          3.90    min
End Time:            4.17    min
```

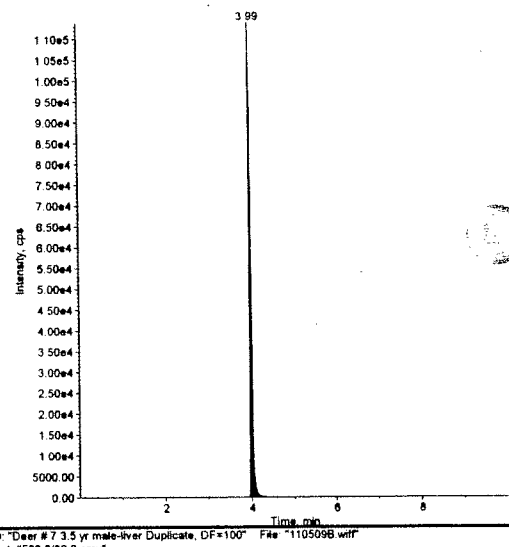



Sample Name: "L19346-4" Sample ID: "Deer # 7 3.5 yr male-liver, DF=100" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        14
Sample Type:      Unknown
Concentration:       1.00    ng/mL
Calculated Conc:     N/A
Acq. Date:        11/5/2009
Acq. Time:        11:05:39 PM

Modified:            No
Proc. Algorithm:  Analyst Classic
Bunching Factor:     1
Noise Threshold:   140.21    cps
Area Threshold:    701.07    cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0     sec
Expected RT:         4.06    min
Use Relative RT:     No

Int. Type:        Base To Base
Retention Time:      3.99    min
Area:            334648    counts
Height:          113872    cps
Start Time:          3.94    min
End Time:            4.21    min
```

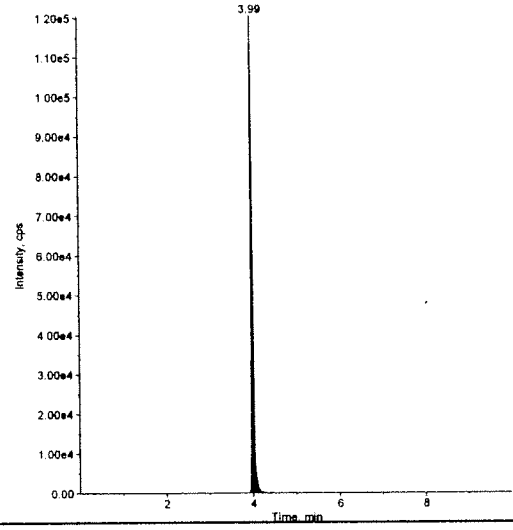



Sample Name: "L19346-4 Dup" Sample ID: "Deer # 7 3.5 yr male-liver Duplicate, DF=100" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        15
Sample Type:      Unknown
Concentration:       N/A
Calculated Conc:    2160.    ng/mL
Acq. Date:        11/5/2009
Acq. Time:        11:16:35 PM

Modified:            No
Proc. Algorithm:  Analyst Classic
Bunching Factor:     1
Noise Threshold:   15.73    cps
Area Threshold:    78.65    cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0     sec
Expected RT:         4.06    min
Use Relative RT:     No

Int. Type:        Valley
Retention Time:      3.99    min
Area:            385034    counts
Height:          120493    cps
Start Time:          3.90    min
End Time:            4.35    min
```

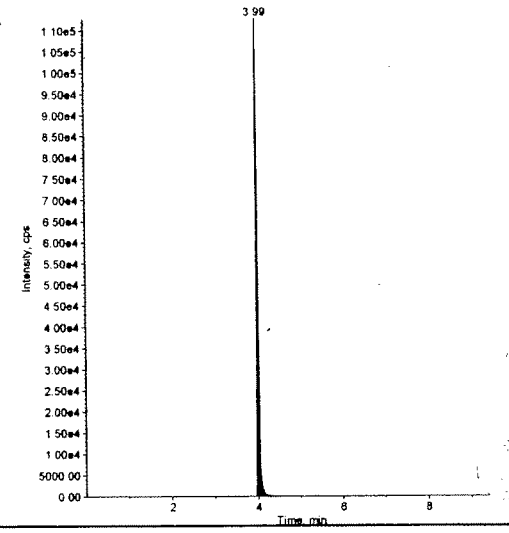



Sample Name: "L19346-4 Dup" Sample ID: "Deer # 7 3.5 yr male-liver Duplicate, DF=100" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        15
Sample Type:      Unknown
Concentration:       1.00    ng/mL
Calculated Conc:     N/A
Acq. Date:        11/5/2009
Acq. Time:        11:16:35 PM

Modified:            No
Proc. Algorithm:  Analyst Classic
Bunching Factor:     1
Noise Threshold:   140.21    cps
Area Threshold:    701.07    cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0     sec
Expected RT:         4.06    min
Use Relative RT:     No

Int. Type:        Base To Base
Retention Time:      3.99    min
Area:            333982    counts
Height:          112796    cps
Start Time:          3.94    min
End Time:            4.18    min
```

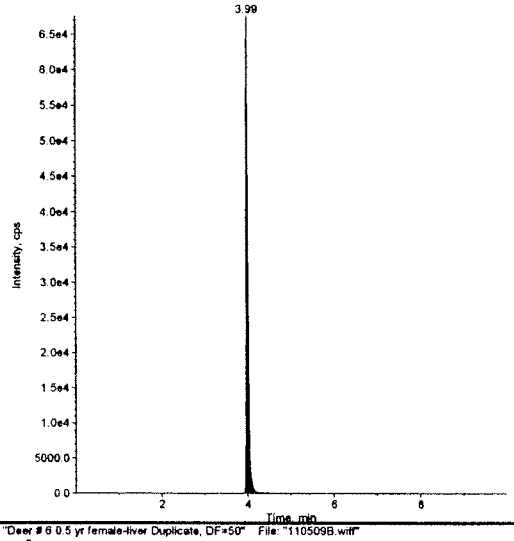


'ample Name: "L19346-2" Sample ID: "Deer # 6 0.5 yr female-liver, DF=50 " File: "110509B.wiff"
'eak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        16
Sample Type:      Unknown
Concentration:      N/A
Calculated Conc:    603.    ng/mL
Acq. Date:       11/5/2009
Acq. Time:       11:27:32 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:   15.73   cps
Area Threshold:    78.65   cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0    sec
Expected RT:         4.06   min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:      3.99   min
Area:          219746   counts
Height:         67624   cps
Start Time:          3.88   min
End Time:            4.24   min
```

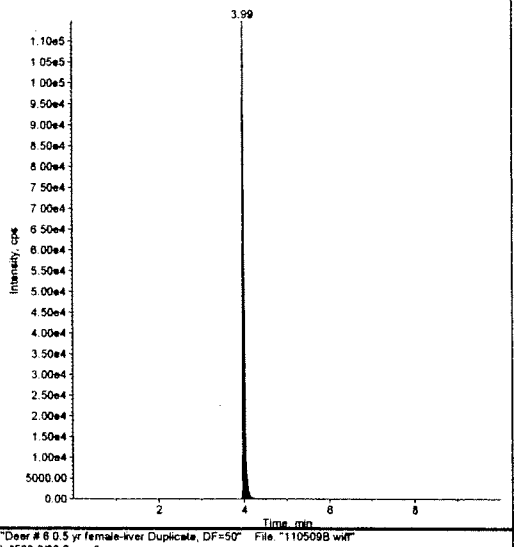



Sample Name: "L19346-2" Sample ID: "Deer # 6 0.5 yr female-liver, DF=50 " File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        16
Sample Type:      Unknown
Concentration:      1.00    ng/mL
Calculated Conc:    N/A
Acq. Date:       11/5/2009
Acq. Time:       11:27:32 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:  140.21   cps
Area Threshold:   701.07   cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0    sec
Expected RT:         4.06   min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:      3.99   min
Area:          340291   counts
Height:        114995   cps
Start Time:          3.92   min
End Time:            4.21   min
```

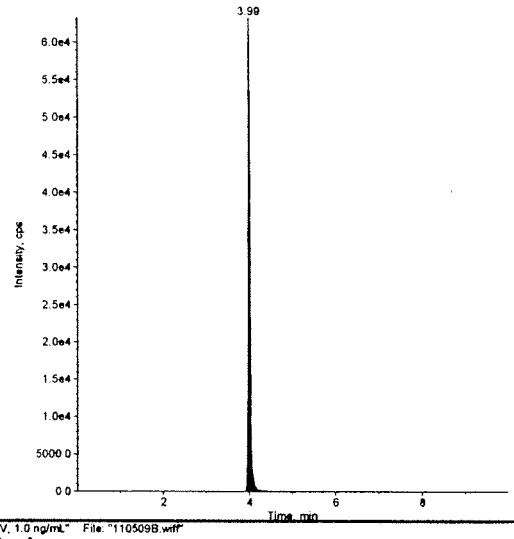



Sample Name: "L19346-2 Dup" Sample ID: "Deer # 6 0.5 yr female-liver Duplicate, DF=50" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        17
ple Type:         Unknown
centration:         N/A
culated Conc:       573.    ng/mL
Date:            11/5/2009
Acq. Time:       11:38:29 PM

Modified:           No
Proc. Algorithm: Analyst Classic
ching Factor:        1
se Threshold:      15.73   cps
a Threshold:       78.65   cps
Smooths:             1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Val. Ratio:          3.00
W                   30.0    sec
                     4.06   min
RT:                 No

Int. Type:       Base To Base
Retention Time:      3.99   min
Area:          209633   counts
ight:           63287   cps
rt Time:             3.88   min
Time:                4.28   min
```

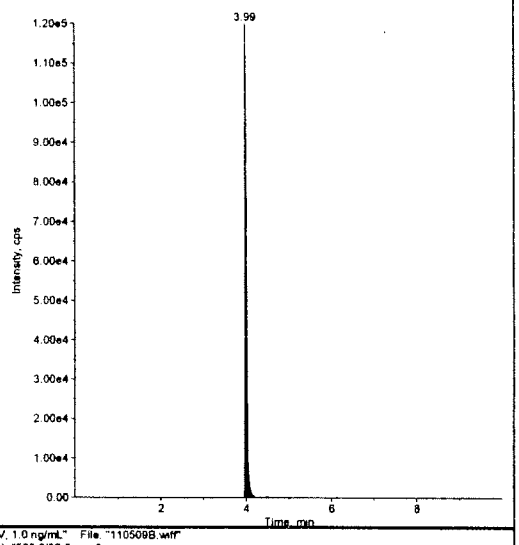



Sample Name: "L19346-2 Dup" Sample ID: "Deer # 6 0.5 yr female-liver Duplicate, DF=50" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        17
Sample Type:      Unknown
Concentration:      1.00    ng/mL
Calculated Conc:    N/A
Acq. Date:       11/5/2009
Acq. Time:       11:38:29 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:  140.21   cps
Area Threshold:   701.07   cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0    sec
Expected RT:         4.06   min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:      3.99   min
Area:          341253   counts
Height:        120079   cps
Start Time:          3.94   min
End Time:            4.20   min
```

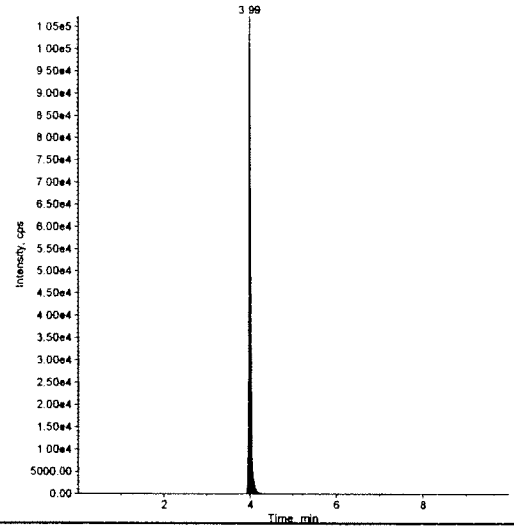



Sample Name: "SS33615" Sample ID: "CCV, 1.0 ng/mL" File: "110509B.wiff"
Peak Name: "PFOS" Mass(es): "499.0/80.0 amu"
Comment: "" Annotation: ""

```
ple Index:           18
ple Type:            QC
Concentration:       1.00    ng/mL
Calculated Conc:     1.03    ng/mL
Acq. Date:       11/5/2009
Acq. Time:       11:49:25 PM

ified:              No
c. Algorithm: Analyst Classic
ching Factor:        1
se Threshold:      15.73   cps
Area Threshold:    78.65   cps
Num. Smooths:        1
Sep. Width:          0.20
Height:              0.01
Peak Ratio:          5.00
Adj. Ratio:          4.00
Val. Ratio:          3.00
Window:             30.0    sec
Expected RT:         4.06   min
Use Relative RT.    No

Int. Type:       Base To Base
ention Time:         3.99   min
a:             357049   counts
ght:           107884   cps
rt Time:             3.90   min
End Time:            4.33   min
```

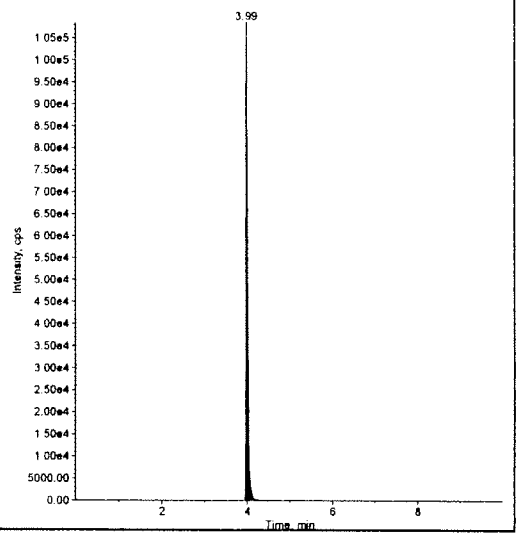



Sample Name: "SS33615" Sample ID: "CCV, 1.0 ng/mL" File: "110509B.wiff"
Peak Name: "13CPFOS(M+4)(IS)" Mass(es): "503.0/80.0 amu"
Comment: "" Annotation: ""

```
Sample Index:        18
Sample Type:         QC
Concentration:       1.00    ng/mL
Calculated Conc:    N/A
Acq. Date:       11/5/2009
Acq. Time:       11:49:25 PM

Modified:           No
Proc. Algorithm: Analyst Classic
Bunching Factor:     1
Noise Threshold:  140.21   cps
Area Threshold:   701.07   cps
Num. Smooths:        1
Sep. Width:          0.20
Sep. Height:         0.01
Exp. Peak Ratio:     5.00
Exp. Adj. Ratio:     4.00
Exp. Val. Ratio:     3.00
RT Window:          30.0    sec
Expected RT:         4.06   min
Use Relative RT:    No

Int. Type:       Base To Base
Retention Time:      3.99   min
Area:          324699   counts
Height:        109034   cps
Start Time:          3.92   min
End Time:            4.18   min
```




Research, Inc.

MPI RESEARCH

3058 Research Drive
State College, PA 16801
Ph.: 814-272-1039
Fax: 814-231-1580

# SAMPLE PROCESSING RECORD

Processing Requested By Employee: Mark Neeley

MPI Research Assigned Project Number: P0005196

MPI Research Assigned Login Number: L0019346

| MPI Sample Number | MPI Container Number | Matrix | Equipment Description/Equipment ID Number |
|---|---|---|---|
| L0019346-0001 | C0457624 | Solid | RobotCoupe / IN0006779 |
| L0019346-0002 | C0457625 | Solid | RobotCoupe / IN0006779 |
| L0019346-0003 | C0457626 | Solid | RobotCoupe / IN0006779 |
| L0019346-0004 | C0457627 | Solid | RobotCoupe / IN0006779 |

Date Processed: 10/29/2009 Time Started: 14:57 Time Finished: 17:20

Processed By Employee/Employees: Eric Edwards

Processing Instructions/Comments:

BIORECLAMATION INC.
123 FROST STREET
WESTBURY, NEW YORK 11590
516-483-1196 FAX 516-483-4683
E-MAIL:techs@Bioreclamation.com

# *CERTIFICATE OF ANALYSIS*

**PRODUCT: DEER PROJECT**
**CATALOG # DER-PROJECT**
**LOT# DERBREC.101 – DERBREC.103**
**STORAGE TEMPERATURE: -20$^0$ C OR COLDER**

**DATE:** 10/21/09

**PURCHASE ORDER:** SC11-04103

**PROJECT NUMBER:** 1061420

**PRESENTATION:**

1. 100 ML SERUM mc 4311/mc 4312
   LOT: DERBREC.101
2. 1 DEER LIVER mc 4313
   LOT: DERBREC.102
3. 500 G DEER MUSCLE mc 4314
   LOT: DERBREC.103

**FILTRATION:** NONE

"THIS IS AN EXACT COPY OF THE ORIGINAL DOCUMENT" BY ___ DATE 11/10/09

**EXPIRATION:** 10/2011

**BIOHAZARD INFO:** THIS MATERIAL SHOULD BE HANDLED AS IF CAPABLE OF TRANSMITTING INFECTIOUS AGENTS. PLEASE USE UNIVERSAL PRECAUTIONS.

*THIS PRODUCT IS BEING SOLD FOR RESEARCH AND, OR MANUFACTURING PURPOSES ONLY. IT IS NOT TO BE USED IN HUMANS OR ANIMALS. FOR IN VITRO USE ONLY. THE USER ASSUMES ALL RESPONSIBILITY FOR ITS USAGE AND DISPOSAL, IN ACCORDANCE WITH ALL REGULATIONS.*

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BARCODE PORTION OF THE LABEL CAN BE READ AND SCANNED. **WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

From: Origin ID: RMEA (516) 483-1196
GLENN FRUCHTNIS
BIORECLAMATION INC.
123 FROST ST

WESTBURY, NY 11590

FedEx. Express

CL8050107/21/23

Ship Date: 20OCT09
ActWgt: 5.0 LB MAN
System#: 397072/CAFE2361
Account#: S 011515100

Dry Ice: 0.5 KGS

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (814) 231-8032 BILL SENDER

**PAUL CONNOLLY**
**MPI RESEARCH (EXYGEN)**
**3048 RESEARCH DRIVE**

**STATE COLLEGE, PA 16801**

**STANDARD OVERNIGHT**

**WED**
Deliver By:
21OCT09

TRK# 9887 6350 1371 FORM 0201

PIT AA

16801 -PA-US
DSR-ICE

**NA SCEA**