# ANALYTICAL REPORT

Job Number: 680-85534-2

SDG Number: 68085534-1

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
12/20/2012 7:30 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
12/20/2012

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# CASE NARRATIVE

## Client: Oneida Total Integrated Enterprises LLC

## Project: 35th Avenue Superfund Site

## Report Number: 680-85534-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

The samples were received on 12/07/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.3º C, 0.4º C and 0.6º C.

**SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL**

Samples HP0012B-CS (680-85534-5), FM0025A-CS-SP (680-85534-13), FM0025B-CS (680-85534-14), FM0025C-CS-SP (680-85534-15), FM0025D-CS-SP (680-85534-16), FM0025E-CS (680-85534-17), FM0165A-CS (680-85534-18), FM0165B-CS (680-85534-19), FM0165C-CS (680-85534-20), FM0165D-CS (680-85534-21), FM0165E-CS (680-85534-22), FM0165F-CS (680-85534-23), FM0165G-CS (680-85534-24), FM0165H-CS (680-85534-25), FM0165I-CS (680-85534-26), FM0165J-CS (680-85534-27), FM0165K-CS (680-85534-28), FM0165L-CS (680-85534-29), FM0165M-CS (680-85534-30) and FM0165N-CS (680-85534-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/12/2012 and 12/13/2012 and analyzed on 12/13/2012, 12/14/2012, 12/16/2012, 12/18/2012 and 12/19/2012.

Samples FM0165F-CS (680-85534-23)[10X] and FM0165F-CS (680-85534-23)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-132425/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Benzo[a]pyrene, Phenanthrene and Pyrene recovered outside the recovery criteria low for the MSD of sample HP0012B-CSMSD (680-85534-5) in batch 660-132553. Several analytes exceeded the rpd limit.

Benzo[a]pyrene recovered outside the recovery criteria low for the MS/MSD of sample FM0165A-CSMS (680-85534-18) in batch 660-132527.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

# SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
Sdg Number: 68085534-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-85534-5 | HP0012B-CS | Solid | 12/05/2012 1145 | 12/07/2012 0924 |
| 680-85534-5MS | HP0012B-CS | Solid | 12/05/2012 1145 | 12/07/2012 0924 |
| 680-85534-5MSD | HP0012B-CS | Solid | 12/05/2012 1145 | 12/07/2012 0924 |
| 680-85534-13 | FM0025A-CS-SP | Solid | 12/05/2012 0930 | 12/07/2012 0924 |
| 680-85534-14 | FM0025B-CS | Solid | 12/05/2012 0941 | 12/07/2012 0924 |
| 680-85534-15 | FM0025C-CS-SP | Solid | 12/05/2012 0942 | 12/07/2012 0924 |
| 680-85534-16 | FM0025D-CS-SP | Solid | 12/05/2012 0949 | 12/07/2012 0924 |
| 680-85534-17 | FM0025E-CS | Solid | 12/05/2012 0950 | 12/07/2012 0924 |
| 680-85534-18 | FM0165A-CS | Solid | 12/05/2012 0858 | 12/07/2012 0924 |
| 680-85534-18MS | FM0165A-CS | Solid | 12/05/2012 0858 | 12/07/2012 0924 |
| 680-85534-18MSD | FM0165A-CS | Solid | 12/05/2012 0858 | 12/07/2012 0924 |
| 680-85534-19 | FM0165B-CS | Solid | 12/05/2012 0902 | 12/07/2012 0924 |
| 680-85534-20 | FM0165C-CS | Solid | 12/05/2012 0909 | 12/07/2012 0924 |
| 680-85534-21 | FM0165D-CS | Solid | 12/05/2012 0914 | 12/07/2012 0924 |
| 680-85534-22 | FM0165E-CS | Solid | 12/05/2012 0920 | 12/07/2012 0924 |
| 680-85534-23 | FM0165F-CS | Solid | 12/05/2012 0928 | 12/07/2012 0924 |
| 680-85534-24 | FM0165G-CS | Solid | 12/05/2012 1010 | 12/07/2012 0924 |
| 680-85534-25 | FM0165H-CS | Solid | 12/05/2012 1005 | 12/07/2012 0924 |
| 680-85534-26 | FM0165I-CS | Solid | 12/05/2012 1029 | 12/07/2012 0924 |
| 680-85534-27 | FM0165J-CS | Solid | 12/05/2012 1034 | 12/07/2012 0924 |
| 680-85534-28 | FM0165K-CS | Solid | 12/05/2012 1039 | 12/07/2012 0924 |
| 680-85534-29 | FM0165L-CS | Solid | 12/05/2012 1048 | 12/07/2012 0924 |
| 680-85534-30 | FM0165M-CS | Solid | 12/05/2012 1054 | 12/07/2012 0924 |
| 680-85534-31 | FM0165N-CS | Solid | 12/05/2012 1056 | 12/07/2012 0924 |

# METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
Sdg Number: 68085534-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Semivolatile Organic Compounds by GCMS - Low Levels | TAL TAM | SW846 8270C LL | |
| Microwave Extraction | TAL TAM | | SW846 3546 |
| Percent Moisture | TAL TAM | EPA Moisture | |

**Lab References:**

TAL TAM = TestAmerica Tampa

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
Sdg Number: 68085534-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8270C LL | Cantin, Stephen C | SCC |
| EPA Moisture | Floyd, Robert W | RWF |
| EPA Moisture | Galio, Andrew | AG |

# DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
Sdg Number: 68085534-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS Semi VOA | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | F | RPD of the MS and MSD exceeds the control limits |

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
Sdg Number: 68085534-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Prep Batch: 660-132425** | | | | | |
| LCS 660-132425/2-A | Lab Control Sample | T | Solid | 3546 | |
| MB 660-132425/1-A | Method Blank | T | Solid | 3546 | |
| 680-85534-13 | FM0025A-CS-SP | T | Solid | 3546 | |
| **Prep Batch: 660-132458** | | | | | |
| LCS 660-132458/2-A | Lab Control Sample | T | Solid | 3546 | |
| MB 660-132458/1-A | Method Blank | T | Solid | 3546 | |
| 680-85534-5 | HP0012B-CS | T | Solid | 3546 | |
| 680-85534-5MS | Matrix Spike | T | Solid | 3546 | |
| 680-85534-5MSD | Matrix Spike Duplicate | T | Solid | 3546 | |
| 680-85534-14 | FM0025B-CS | T | Solid | 3546 | |
| 680-85534-15 | FM0025C-CS-SP | T | Solid | 3546 | |
| 680-85534-16 | FM0025D-CS-SP | T | Solid | 3546 | |
| 680-85534-17 | FM0025E-CS | T | Solid | 3546 | |
| 680-85534-19 | FM0165B-CS | T | Solid | 3546 | |
| 680-85534-20 | FM0165C-CS | T | Solid | 3546 | |
| 680-85534-21 | FM0165D-CS | T | Solid | 3546 | |
| 680-85534-22 | FM0165E-CS | T | Solid | 3546 | |
| 680-85534-23 | FM0165F-CS | T | Solid | 3546 | |
| 680-85534-23DL | FM0165F-CS | T | Solid | 3546 | |
| 680-85534-23DL2 | FM0165F-CS | T | Solid | 3546 | |
| 680-85534-24 | FM0165G-CS | T | Solid | 3546 | |
| 680-85534-25 | FM0165H-CS | T | Solid | 3546 | |
| 680-85534-26 | FM0165I-CS | T | Solid | 3546 | |
| 680-85534-27 | FM0165J-CS | T | Solid | 3546 | |
| 680-85534-28 | FM0165K-CS | T | Solid | 3546 | |
| 680-85534-29 | FM0165L-CS | T | Solid | 3546 | |
| 680-85534-30 | FM0165M-CS | T | Solid | 3546 | |
| 680-85534-31 | FM0165N-CS | T | Solid | 3546 | |
| **Prep Batch: 660-132474** | | | | | |
| LCS 660-132474/2-A | Lab Control Sample | T | Solid | 3546 | |
| MB 660-132474/1-A | Method Blank | T | Solid | 3546 | |
| 680-85534-18 | FM0165A-CS | T | Solid | 3546 | |
| 680-85534-18MS | Matrix Spike | T | Solid | 3546 | |
| 680-85534-18MSD | Matrix Spike Duplicate | T | Solid | 3546 | |
| **Analysis Batch:660-132527** | | | | | |
| LCS 660-132474/2-A | Lab Control Sample | T | Solid | 8270C LL | 660-132474 |
| MB 660-132474/1-A | Method Blank | T | Solid | 8270C LL | 660-132474 |
| 680-85534-18 | FM0165A-CS | T | Solid | 8270C LL | 660-132474 |
| 680-85534-18MS | Matrix Spike | T | Solid | 8270C LL | 660-132474 |
| 680-85534-18MSD | Matrix Spike Duplicate | T | Solid | 8270C LL | 660-132474 |

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
Sdg Number: 68085534-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Analysis Batch:660-132552** | | | | | |
| LCS 660-132425/2-A | Lab Control Sample | T | Solid | 8270C LL | 660-132425 |
| MB 660-132425/1-A | Method Blank | T | Solid | 8270C LL | 660-132425 |
| 680-85534-13 | FM0025A-CS-SP | T | Solid | 8270C LL | 660-132425 |
| **Analysis Batch:660-132553** | | | | | |
| LCS 660-132458/2-A | Lab Control Sample | T | Solid | 8270C LL | 660-132458 |
| MB 660-132458/1-A | Method Blank | T | Solid | 8270C LL | 660-132458 |
| 680-85534-5 | HP0012B-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-5MS | Matrix Spike | T | Solid | 8270C LL | 660-132458 |
| 680-85534-5MSD | Matrix Spike Duplicate | T | Solid | 8270C LL | 660-132458 |
| 680-85534-14 | FM0025B-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-15 | FM0025C-CS-SP | T | Solid | 8270C LL | 660-132458 |
| 680-85534-16 | FM0025D-CS-SP | T | Solid | 8270C LL | 660-132458 |
| 680-85534-17 | FM0025E-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-19 | FM0165B-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-20 | FM0165C-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-21 | FM0165D-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-22 | FM0165E-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-23 | FM0165F-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-24 | FM0165G-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-25 | FM0165H-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-26 | FM0165I-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-27 | FM0165J-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-28 | FM0165K-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-29 | FM0165L-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-30 | FM0165M-CS | T | Solid | 8270C LL | 660-132458 |
| **Analysis Batch:660-132652** | | | | | |
| 680-85534-23DL | FM0165F-CS | T | Solid | 8270C LL | 660-132458 |
| 680-85534-23DL2 | FM0165F-CS | T | Solid | 8270C LL | 660-132458 |
| **Analysis Batch:660-132707** | | | | | |
| 680-85534-31 | FM0165N-CS | T | Solid | 8270C LL | 660-132458 |

**Report Basis**
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
Sdg Number: 68085534-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:660-132317** | | | | | |
| MB 660-132317/1 | Method Blank | T | Solid | Moisture | |
| 680-85534-5 | HP0012B-CS | T | Solid | Moisture | |
| 680-85534-5MS | Matrix Spike | T | Solid | Moisture | |
| 680-85534-5MSD | Matrix Spike Duplicate | T | Solid | Moisture | |
| 680-85534-13 | FM0025A-CS-SP | T | Solid | Moisture | |
| 680-85534-14 | FM0025B-CS | T | Solid | Moisture | |
| 680-85534-15 | FM0025C-CS-SP | T | Solid | Moisture | |
| 680-85534-16 | FM0025D-CS-SP | T | Solid | Moisture | |
| 680-85534-17 | FM0025E-CS | T | Solid | Moisture | |
| 680-85534-18 | FM0165A-CS | T | Solid | Moisture | |
| 680-85534-18MS | Matrix Spike | T | Solid | Moisture | |
| 680-85534-18MSD | Matrix Spike Duplicate | T | Solid | Moisture | |
| **Analysis Batch:660-132346** | | | | | |
| LCS 660-132346/1 | Lab Control Sample | T | Solid | Moisture | |
| LCSD 660-132346/22 | Lab Control Sample Duplicate | T | Solid | Moisture | |
| 680-85534-19 | FM0165B-CS | T | Solid | Moisture | |
| 680-85534-20 | FM0165C-CS | T | Solid | Moisture | |
| 680-85534-21 | FM0165D-CS | T | Solid | Moisture | |
| 680-85534-22 | FM0165E-CS | T | Solid | Moisture | |
| 680-85534-23 | FM0165F-CS | T | Solid | Moisture | |
| 680-85534-24 | FM0165G-CS | T | Solid | Moisture | |
| 680-85534-25 | FM0165H-CS | T | Solid | Moisture | |
| 680-85534-26 | FM0165I-CS | T | Solid | Moisture | |
| 680-85534-27 | FM0165J-CS | T | Solid | Moisture | |
| 680-85534-28 | FM0165K-CS | T | Solid | Moisture | |
| 680-85534-29 | FM0165L-CS | T | Solid | Moisture | |
| 680-85534-30 | FM0165M-CS | T | Solid | Moisture | |
| 680-85534-31 | FM0165N-CS | T | Solid | Moisture | |

**Report Basis**
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Analysis Batch Number: 131833

Lab Sample ID: IC 660-131833/3 Client Sample ID:

Date Analyzed: 11/26/12 13:48 Lab File ID: 1AK26003.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Dibenz(a,h)anthracene | 8.95 | Baseline Event | cantins | 11/27/12 09:52 |
| Benzo[g,h,i]perylene | 9.20 | Baseline Event | cantins | 11/27/12 09:52 |

Lab Sample ID: IC 660-131833/4 Client Sample ID:

Date Analyzed: 11/26/12 14:04 Lab File ID: 1AK26004.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Dibenz(a,h)anthracene | 8.95 | Baseline Event | cantins | 11/27/12 09:52 |

Lab Sample ID: IC 660-131833/5 Client Sample ID:

Date Analyzed: 11/26/12 14:19 Lab File ID: 1AK26005.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 8.92 | Split Peak | cantins | 11/27/12 09:53 |
| Dibenz(a,h)anthracene | 8.95 | Baseline Event | cantins | 11/27/12 09:53 |
| Benzo[g,h,i]perylene | 9.20 | Baseline Event | cantins | 11/27/12 09:53 |

Lab Sample ID: IC 660-131833/6 Client Sample ID:

Date Analyzed: 11/26/12 14:34 Lab File ID: 1AK26006.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 8.93 | Split Peak | cantins | 11/27/12 09:54 |
| Dibenz(a,h)anthracene | 8.96 | Baseline Event | cantins | 11/27/12 09:54 |
| Benzo[g,h,i]perylene | 9.21 | Baseline Event | cantins | 11/27/12 09:54 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Analysis Batch Number: 131833

Lab Sample ID: IC 660-131833/8 Client Sample ID:

Date Analyzed: 11/26/12 15:05 Lab File ID: 1AK26008.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Dibenz(a,h)anthracene | 8.97 | Baseline Event | cantins | 11/27/12 09:55 |
| Benzo[g,h,i]perylene | 9.23 | Baseline Event | cantins | 11/27/12 09:55 |

Lab Sample ID: IC 660-131833/9 Client Sample ID:

Date Analyzed: 11/26/12 15:20 Lab File ID: 1AK26009.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 8.95 | Split Peak | cantins | 11/27/12 09:55 |
| Dibenz(a,h)anthracene | 8.98 | Baseline Event | cantins | 11/27/12 09:56 |
| Benzo[g,h,i]perylene | 9.24 | Baseline Event | cantins | 11/27/12 09:56 |

Lab Sample ID: ICV 660-131833/10 Client Sample ID:

Date Analyzed: 11/26/12 15:35 Lab File ID: 1AK26010.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Dibenz(a,h)anthracene | 8.96 | Baseline Event | cantins | 11/27/12 10:02 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Analysis Batch Number: 132527

Lab Sample ID: CCVIS 660-132527/3 Client Sample ID:

Date Analyzed: 12/14/12 12:13 Lab File ID: 1AL14003.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 9.00 | Split Peak | cantins | 12/14/12 12:27 |

Lab Sample ID: LCS 660-132474/2-A Client Sample ID:

Date Analyzed: 12/14/12 13:00 Lab File ID: 1AL14006.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 8.99 | Split Peak | cantins | 12/14/12 13:59 |

Lab Sample ID: 680-85534-18 Client Sample ID: FM0165A-CS

Date Analyzed: 12/14/12 14:01 Lab File ID: 1AL14010.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 7.73 | Baseline Event | cantins | 12/14/12 14:59 |
| Benzo[k]fluoranthene | 7.74 | Baseline Event | cantins | 12/14/12 14:59 |

Lab Sample ID: 680-85534-18 MS Client Sample ID: FM0165A-CS MS

Date Analyzed: 12/14/12 14:16 Lab File ID: 1AL14011.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 9.00 | Split Peak | cantins | 12/14/12 15:00 |

Lab Sample ID: 680-85534-18 MSD Client Sample ID: FM0165A-CS MSD

Date Analyzed: 12/14/12 14:31 Lab File ID: 1AL14012.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 9.00 | Split Peak | cantins | 12/14/12 15:01 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Analysis Batch Number: 132552

Lab Sample ID: CCVIS 660-132552/3 Client Sample ID:

Date Analyzed: 12/13/12 11:21 Lab File ID: 1AL13003.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 8.96 | Split Peak | cantins | 12/13/12 11:34 |

Lab Sample ID: LCS 660-132425/2-A Client Sample ID:

Date Analyzed: 12/13/12 12:13 Lab File ID: 1AL13006.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 8.95 | Split Peak | cantins | 12/13/12 13:04 |

Lab Sample ID: 680-85534-13 Client Sample ID: FM0025A-CS-SP

Date Analyzed: 12/13/12 14:45 Lab File ID: 1AL13016.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Phenanthrene | 4.82 | Baseline Event | cantins | 12/17/12 14:04 |
| Benzo[b]fluoranthene | 7.72 | Split Peak | cantins | 12/17/12 14:04 |
| Benzo[k]fluoranthene | 7.73 | Baseline Event | cantins | 12/17/12 14:04 |
| Indeno[1,2,3-cd]pyrene | 8.98 | Split Peak | cantins | 12/17/12 14:06 |
| Dibenz(a,h)anthracene | 9.01 | Baseline Event | cantins | 12/17/12 14:05 |
| Benzo[g,h,i]perylene | 9.29 | Baseline Event | cantins | 12/17/12 14:05 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMC5973 Analysis Batch Number: 131957

Lab Sample ID: IC 660-131957/3 Client Sample ID:

Date Analyzed: 11/29/12 11:16 Lab File ID: 1CK29003.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.50 | Baseline Event | cantins | 11/29/12 15:35 |
| Dibenz(a,h)anthracene | 10.52 | Baseline Event | cantins | 11/29/12 15:36 |
| Benzo[g,h,i]perylene | 10.90 | Baseline Event | cantins | 11/29/12 15:36 |

Lab Sample ID: IC 660-131957/4 Client Sample ID:

Date Analyzed: 11/29/12 11:34 Lab File ID: 1CK29004.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.49 | Split Peak | cantins | 11/29/12 15:37 |
| Dibenz(a,h)anthracene | 10.51 | Baseline Event | cantins | 11/29/12 15:36 |
| Benzo[g,h,i]perylene | 10.88 | Baseline Event | cantins | 11/29/12 15:36 |

Lab Sample ID: IC 660-131957/5 Client Sample ID:

Date Analyzed: 11/29/12 11:53 Lab File ID: 1CK29005.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.49 | Split Peak | cantins | 11/29/12 15:38 |
| Dibenz(a,h)anthracene | 10.51 | Baseline Event | cantins | 11/29/12 15:37 |
| Benzo[g,h,i]perylene | 10.88 | Baseline Event | cantins | 11/29/12 15:38 |

Lab Sample ID: IC 660-131957/6 Client Sample ID:

Date Analyzed: 11/29/12 12:11 Lab File ID: 1CK29006.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.49 | Split Peak | cantins | 11/29/12 15:41 |
| Dibenz(a,h)anthracene | 10.52 | Baseline Event | cantins | 11/29/12 15:41 |
| Benzo[g,h,i]perylene | 10.89 | Baseline Event | cantins | 11/29/12 15:41 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMC5973 Analysis Batch Number: 131957

Lab Sample ID: ICIS 660-131957/7 Client Sample ID:

Date Analyzed: 11/29/12 12:29 Lab File ID: 1CK29007.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.49 | Split Peak | cantins | 11/29/12 15:44 |
| Dibenz(a,h)anthracene | 10.52 | Baseline Event | cantins | 11/29/12 15:45 |
| Benzo[g,h,i]perylene | 10.89 | Baseline Event | cantins | 11/29/12 15:45 |

Lab Sample ID: IC 660-131957/8 Client Sample ID:

Date Analyzed: 11/29/12 12:48 Lab File ID: 1CK29008.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.49 | Split Peak | cantins | 11/29/12 15:43 |
| Dibenz(a,h)anthracene | 10.52 | Baseline Event | cantins | 11/29/12 15:42 |
| Benzo[g,h,i]perylene | 10.89 | Baseline Event | cantins | 11/29/12 15:43 |

Lab Sample ID: IC 660-131957/9 Client Sample ID:

Date Analyzed: 11/29/12 13:06 Lab File ID: 1CK29009.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.50 | Split Peak | cantins | 11/29/12 15:44 |

Lab Sample ID: ICV 660-131957/10 Client Sample ID:

Date Analyzed: 11/29/12 13:25 Lab File ID: 1CK29010.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.49 | Split Peak | cantins | 11/29/12 15:51 |
| Dibenz(a,h)anthracene | 10.52 | Baseline Event | cantins | 11/29/12 15:51 |
| Benzo[g,h,i]perylene | 10.89 | Baseline Event | cantins | 11/29/12 15:51 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMC5973 Analysis Batch Number: 132652

Lab Sample ID: CCVIS 660-132652/3 Client Sample ID:

Date Analyzed: 12/18/12 11:34 Lab File ID: 1CL18003.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 10.47 | Split Peak | cantins | 12/18/12 11:49 |

Lab Sample ID: 680-85534-23 DL Client Sample ID: FM0165F-CS DL

Date Analyzed: 12/18/12 16:59 Lab File ID: 1CL18020.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 8.80 | Split Peak | cantins | 12/18/12 17:36 |
| Benzo[k]fluoranthene | 8.82 | Baseline Event | cantins | 12/18/12 17:36 |
| Indeno[1,2,3-cd]pyrene | 10.47 | Split Peak | cantins | 12/18/12 17:36 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Analysis Batch Number: 132234

Lab Sample ID: IC 660-132234/3 Client Sample ID:

Date Analyzed: 12/06/12 11:59 Lab File ID: 1DL06003.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chrysene | 11.58 | Baseline Event | cantins | 12/07/12 10:29 |
| Dibenz(a,h)anthracene | 15.13 | Baseline Event | cantins | 12/07/12 10:29 |
| Benzo[g,h,i]perylene | 15.55 | Baseline Event | cantins | 12/07/12 10:30 |

Lab Sample ID: IC 660-132234/4 Client Sample ID:

Date Analyzed: 12/06/12 12:21 Lab File ID: 1DL06004.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.07 | Split Peak | cantins | 12/07/12 10:30 |
| Dibenz(a,h)anthracene | 15.12 | Baseline Event | cantins | 12/07/12 10:30 |
| Benzo[g,h,i]perylene | 15.54 | Baseline Event | cantins | 12/07/12 10:30 |

Lab Sample ID: IC 660-132234/5 Client Sample ID:

Date Analyzed: 12/06/12 12:44 Lab File ID: 1DL06005.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.08 | Split Peak | cantins | 12/07/12 10:31 |
| Dibenz(a,h)anthracene | 15.12 | Baseline Event | cantins | 12/07/12 10:31 |
| Benzo[g,h,i]perylene | 15.55 | Baseline Event | cantins | 12/07/12 10:31 |

Lab Sample ID: ICV 660-132234/10 Client Sample ID:

Date Analyzed: 12/06/12 14:37 Lab File ID: 1DL06010.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Carbazole | 9.40 | Baseline Event | cantins | 12/07/12 10:55 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Analysis Batch Number: 132553

Lab Sample ID: 680-85534-5 Client Sample ID: HP0012B-CS

Date Analyzed: 12/16/12 12:07 Lab File ID: 1DL16009.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.09 | Split Peak | cantins | 12/16/12 13:57 |
| Benzo[g,h,i]perylene | 15.56 | Baseline Event | cantins | 12/16/12 13:57 |

Lab Sample ID: 680-85534-5 MS Client Sample ID: HP0012B-CS MS

Date Analyzed: 12/16/12 12:29 Lab File ID: 1DL16010.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.12 | Split Peak | cantins | 12/16/12 13:58 |

Lab Sample ID: 680-85534-5 MSD Client Sample ID: HP0012B-CS MSD

Date Analyzed: 12/16/12 12:52 Lab File ID: 1DL16011.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.11 | Split Peak | cantins | 12/16/12 14:00 |

Lab Sample ID: 680-85534-14 Client Sample ID: FM0025B-CS

Date Analyzed: 12/16/12 13:15 Lab File ID: 1DL16012.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.10 | Split Peak | cantins | 12/18/12 15:44 |

Lab Sample ID: 680-85534-15 Client Sample ID: FM0025C-CS-SP

Date Analyzed: 12/16/12 13:38 Lab File ID: 1DL16013.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.10 | Split Peak | cantins | 12/18/12 15:45 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Analysis Batch Number: 132553

Lab Sample ID: 680-85534-16 Client Sample ID: FM0025D-CS-SP

Date Analyzed: 12/16/12 15:56 Lab File ID: 1DL16017.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[a]anthracene | 11.55 | Split Peak | cantins | 12/18/12 15:47 |
| Chrysene | 11.58 | Baseline Event | cantins | 12/18/12 15:47 |
| Dibenz(a,h)anthracene | 15.13 | Baseline Event | cantins | 12/18/12 15:48 |

Lab Sample ID: 680-85534-17 Client Sample ID: FM0025E-CS

Date Analyzed: 12/16/12 16:19 Lab File ID: 1DL16018.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[a]anthracene | 11.54 | Baseline Event | cantins | 12/18/12 15:53 |
| Chrysene | 11.59 | Baseline Event | cantins | 12/18/12 15:53 |
| Benzo[g,h,i]perylene | 15.64 | Baseline Event | cantins | 12/18/12 15:55 |

Lab Sample ID: 680-85534-19 Client Sample ID: FM0165B-CS

Date Analyzed: 12/16/12 16:42 Lab File ID: 1DL16019.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[g,h,i]perylene | 15.57 | Baseline Event | cantins | 12/18/12 15:59 |

Lab Sample ID: 680-85534-20 Client Sample ID: FM0165C-CS

Date Analyzed: 12/16/12 17:05 Lab File ID: 1DL16020.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.11 | Baseline Event | cantins | 12/18/12 16:01 |
| Dibenz(a,h)anthracene | 15.15 | Baseline Event | cantins | 12/18/12 16:00 |
| Benzo[g,h,i]perylene | 15.58 | Baseline Event | cantins | 12/18/12 16:01 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Analysis Batch Number: 132553

Lab Sample ID: 680-85534-21 Client Sample ID: FM0165D-CS

Date Analyzed: 12/16/12 17:27 Lab File ID: 1DL16021.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.10 | Split Peak | cantins | 12/18/12 16:03 |

Lab Sample ID: 680-85534-22 Client Sample ID: FM0165E-CS

Date Analyzed: 12/16/12 17:50 Lab File ID: 1DL16022.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.11 | Baseline Event | cantins | 12/18/12 16:05 |
| Dibenz(a,h)anthracene | 15.16 | Baseline Event | cantins | 12/18/12 16:04 |
| Benzo[g,h,i]perylene | 15.57 | Baseline Event | cantins | 12/18/12 16:04 |

Lab Sample ID: 680-85534-24 Client Sample ID: FM0165G-CS

Date Analyzed: 12/16/12 18:35 Lab File ID: 1DL16024.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.13 | Split Peak | cantins | 12/18/12 16:11 |

Lab Sample ID: 680-85534-25 Client Sample ID: FM0165H-CS

Date Analyzed: 12/16/12 18:58 Lab File ID: 1DL16025.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.12 | Split Peak | cantins | 12/18/12 16:13 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Analysis Batch Number: 132553

Lab Sample ID: 680-85534-26 Client Sample ID: FM0165I-CS

Date Analyzed: 12/16/12 19:21 Lab File ID: 1DL16026.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.12 | Split Peak | cantins | 12/18/12 16:14 |
| Benzo[g,h,i]perylene | 15.60 | Baseline Event | cantins | 12/18/12 16:14 |

Lab Sample ID: 680-85534-27 Client Sample ID: FM0165J-CS

Date Analyzed: 12/16/12 19:44 Lab File ID: 1DL16027.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.12 | Split Peak | cantins | 12/18/12 16:19 |
| Dibenz(a,h)anthracene | 15.16 | Baseline Event | cantins | 12/18/12 16:18 |
| Benzo[g,h,i]perylene | 15.60 | Baseline Event | cantins | 12/18/12 16:19 |

Lab Sample ID: 680-85534-28 Client Sample ID: FM0165K-CS

Date Analyzed: 12/16/12 20:06 Lab File ID: 1DL16028.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.12 | Split Peak | cantins | 12/18/12 16:21 |
| Benzo[g,h,i]perylene | 15.60 | Baseline Event | cantins | 12/18/12 16:21 |

Lab Sample ID: 680-85534-29 Client Sample ID: FM0165L-CS

Date Analyzed: 12/16/12 20:29 Lab File ID: 1DL16029.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.12 | Split Peak | cantins | 12/18/12 16:23 |
| Benzo[g,h,i]perylene | 15.60 | Baseline Event | cantins | 12/18/12 16:23 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Analysis Batch Number: 132553

Lab Sample ID: 680-85534-30 Client Sample ID: FM0165M-CS

Date Analyzed: 12/16/12 20:51 Lab File ID: 1DL16030.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.12 | Split Peak | cantins | 12/18/12 16:25 |
| Dibenz(a,h)anthracene | 15.16 | Baseline Event | cantins | 12/18/12 16:25 |
| Benzo[g,h,i]perylene | 15.60 | Baseline Event | cantins | 12/18/12 16:25 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Analysis Batch Number: 132707

Lab Sample ID: 680-85534-31 Client Sample ID: FM0165N-CS

Date Analyzed: 12/19/12 11:51 Lab File ID: 1DL19005.D GC Column: DB-5MS ID: 250(um)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 15.13 | Split Peak | cantins | 12/19/12 12:23 |

# Method 8270C Low Level

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## Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

| Client Sample ID | Lab Sample ID | OTPH # |
|---|---|---|
| HP0012B-CS | 680-85534-5 | 56 |
| FM0025A-CS-SP | 680-85534-13 | 85 |
| FM0025B-CS | 680-85534-14 | 70 |
| FM0025C-CS-SP | 680-85534-15 | 58 |
| FM0025D-CS-SP | 680-85534-16 | 51 |
| FM0025E-CS | 680-85534-17 | 41 |
| FM0165A-CS | 680-85534-18 | 60 |
| FM0165B-CS | 680-85534-19 | 60 |
| FM0165C-CS | 680-85534-20 | 59 |
| FM0165D-CS | 680-85534-21 | 70 |
| FM0165E-CS | 680-85534-22 | 58 |
| FM0165F-CS | 680-85534-23 | 64 |
| FM0165G-CS | 680-85534-24 | 59 |
| FM0165H-CS | 680-85534-25 | 69 |
| FM0165I-CS | 680-85534-26 | 57 |
| FM0165J-CS | 680-85534-27 | 57 |
| FM0165K-CS | 680-85534-28 | 56 |
| FM0165L-CS | 680-85534-29 | 68 |
| FM0165M-CS | 680-85534-30 | 61 |
| FM0165N-CS | 680-85534-31 | 50 |
| | MB 660-132425/1-A | 59 |
| | MB 660-132458/1-A | 56 |
| | MB 660-132474/1-A | 69 |
| | LCS 660-132425/2-A | 83 |
| | LCS 660-132458/2-A | 51 |
| | LCS 660-132474/2-A | 72 |
| HP0012B-CS MS | 680-85534-5 MS | 67 |
| FM0165A-CS MS | 680-85534-18 MS | 57 |
| HP0012B-CS MSD | 680-85534-5 MSD | 47 |
| FM0165A-CS MSD | 680-85534-18 MSD | 57 |

| | QC LIMITS |
|---|---|
| OTPH = o-Terphenyl | 30-130 |

# Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low Lab File ID: 1AL13006.D

Lab ID: LCS 660-132425/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Acenaphthene | 668 | 499 | 75 | 39-130 | |
| Acenaphthylene | 668 | 487 | 73 | 38-130 | |
| Anthracene | 668 | 543 | 81 | 37-130 | |
| Benzo[a]anthracene | 668 | 583 | 87 | 40-130 | |
| Benzo[a]pyrene | 668 | 495 | 74 | 49-130 | |
| Benzo[b]fluoranthene | 668 | 621 | 93 | 37-130 | |
| Benzo[g,h,i]perylene | 668 | 359 | 54 | 32-130 | |
| Benzo[k]fluoranthene | 668 | 496 | 74 | 32-130 | |
| Chrysene | 668 | 578 | 87 | 41-130 | |
| Dibenz(a,h)anthracene | 668 | 430 | 64 | 27-130 | |
| Fluoranthene | 668 | 562 | 84 | 40-130 | |
| Fluorene | 668 | 517 | 77 | 40-130 | |
| Indeno[1,2,3-cd]pyrene | 668 | 436 | 65 | 30-130 | |
| 1-Methylnaphthalene | 668 | 589 | 88 | 31-130 | |
| 2-Methylnaphthalene | 668 | 529 | 79 | 33-130 | |
| Naphthalene | 668 | 525 | 79 | 36-130 | |
| Phenanthrene | 668 | 525 | 79 | 42-130 | |
| Pyrene | 668 | 555 | 83 | 44-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low Lab File ID: 1DL16007.D

Lab ID: LCS 660-132458/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Acenaphthene | 667 | 329 | 49 | 39-130 | |
| Acenaphthylene | 667 | 348 | 52 | 38-130 | |
| Anthracene | 667 | 352 | 53 | 37-130 | |
| Benzo[a]anthracene | 667 | 396 | 59 | 40-130 | |
| Benzo[a]pyrene | 667 | 352 | 53 | 49-130 | |
| Benzo[b]fluoranthene | 667 | 392 | 59 | 37-130 | |
| Benzo[g,h,i]perylene | 667 | 381 | 57 | 32-130 | |
| Benzo[k]fluoranthene | 667 | 374 | 56 | 32-130 | |
| Chrysene | 667 | 375 | 56 | 41-130 | |
| Dibenz(a,h)anthracene | 667 | 325 | 49 | 27-130 | |
| Fluoranthene | 667 | 374 | 56 | 40-130 | |
| Fluorene | 667 | 352 | 53 | 40-130 | |
| Indeno[1,2,3-cd]pyrene | 667 | 380 | 57 | 30-130 | |
| 1-Methylnaphthalene | 667 | 343 | 51 | 31-130 | |
| 2-Methylnaphthalene | 667 | 338 | 51 | 33-130 | |
| Naphthalene | 667 | 334 | 50 | 36-130 | |
| Phenanthrene | 667 | 346 | 52 | 42-130 | |
| Pyrene | 667 | 353 | 53 | 44-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low Lab File ID: 1AL14006.D

Lab ID: LCS 660-132474/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Acenaphthene | 668 | 420 | 63 | 39-130 | |
| Acenaphthylene | 668 | 404 | 61 | 38-130 | |
| Anthracene | 668 | 457 | 68 | 37-130 | |
| Benzo[a]anthracene | 668 | 530 | 79 | 40-130 | |
| Benzo[a]pyrene | 668 | 432 | 65 | 49-130 | |
| Benzo[b]fluoranthene | 668 | 496 | 74 | 37-130 | |
| Benzo[g,h,i]perylene | 668 | 499 | 75 | 32-130 | |
| Benzo[k]fluoranthene | 668 | 487 | 73 | 32-130 | |
| Chrysene | 668 | 520 | 78 | 41-130 | |
| Dibenz(a,h)anthracene | 668 | 451 | 67 | 27-130 | |
| Fluoranthene | 668 | 516 | 77 | 40-130 | |
| Fluorene | 668 | 458 | 69 | 40-130 | |
| Indeno[1,2,3-cd]pyrene | 668 | 471 | 71 | 30-130 | |
| 1-Methylnaphthalene | 668 | 495 | 74 | 31-130 | |
| 2-Methylnaphthalene | 668 | 463 | 69 | 33-130 | |
| Naphthalene | 668 | 454 | 68 | 36-130 | |
| Phenanthrene | 668 | 436 | 65 | 42-130 | |
| Pyrene | 668 | 458 | 69 | 44-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low Lab File ID: 1DL16010.D

Lab ID: 680-85534-5 MS Client ID: HP0012B-CS MS

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Acenaphthene | 813 | 120 U | 547 | 67 | 39-130 | |
| Acenaphthylene | 813 | 26 J | 580 | 68 | 38-130 | |
| Anthracene | 813 | 33 | 598 | 70 | 37-130 | |
| Benzo[a]anthracene | 813 | 100 | 721 | 76 | 40-130 | |
| Benzo[a]pyrene | 813 | 96 | 645 | 67 | 49-130 | |
| Benzo[b]fluoranthene | 813 | 180 | 800 | 76 | 37-130 | |
| Benzo[g,h,i]perylene | 813 | 83 | 579 | 61 | 32-130 | |
| Benzo[k]fluoranthene | 813 | 62 | 663 | 74 | 32-130 | |
| Chrysene | 813 | 160 | 784 | 77 | 41-130 | |
| Dibenz(a,h)anthracene | 813 | 27 | 511 | 60 | 27-130 | |
| Fluoranthene | 813 | 180 | 773 | 73 | 40-130 | |
| Fluorene | 813 | 24 U | 581 | 71 | 40-130 | |
| Indeno[1,2,3-cd]pyrene | 813 | 74 | 626 | 68 | 30-130 | |
| 1-Methylnaphthalene | 813 | 97 | 676 | 71 | 31-130 | |
| 2-Methylnaphthalene | 813 | 120 | 709 | 72 | 33-130 | |
| Naphthalene | 813 | 130 | 679 | 68 | 36-130 | |
| Phenanthrene | 813 | 190 | 765 | 71 | 42-130 | |
| Pyrene | 813 | 130 | 703 | 70 | 44-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low Lab File ID: 1AL14011.D

Lab ID: 680-85534-18 MS Client ID: FM0165A-CS MS

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Acenaphthene | 778 | 120 U | 369 | 47 | 39-130 | |
| Acenaphthylene | 778 | 47 U | 360 | 46 | 38-130 | |
| Anthracene | 778 | 9.8 U | 425 | 55 | 37-130 | |
| Benzo[a]anthracene | 778 | 13 | 480 | 60 | 40-130 | |
| Benzo[a]pyrene | 778 | 12 U | 328 | 42 | 49-130 | F |
| Benzo[b]fluoranthene | 778 | 8.7 J | 376 | 47 | 37-130 | |
| Benzo[g,h,i]perylene | 778 | 23 U | 458 | 59 | 32-130 | |
| Benzo[k]fluoranthene | 778 | 5.4 J | 368 | 47 | 32-130 | |
| Chrysene | 778 | 7.7 J | 441 | 56 | 41-130 | |
| Dibenz(a,h)anthracene | 778 | 23 U | 388 | 50 | 27-130 | |
| Fluoranthene | 778 | 13 J | 480 | 60 | 40-130 | |
| Fluorene | 778 | 23 U | 391 | 50 | 40-130 | |
| Indeno[1,2,3-cd]pyrene | 778 | 23 U | 386 | 50 | 30-130 | |
| 1-Methylnaphthalene | 778 | 47 U | 402 | 52 | 31-130 | |
| 2-Methylnaphthalene | 778 | 47 U | 378 | 49 | 33-130 | |
| Naphthalene | 778 | 47 U | 392 | 50 | 36-130 | |
| Phenanthrene | 778 | 11 | 393 | 49 | 42-130 | |
| Pyrene | 778 | 10 J | 393 | 49 | 44-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low Lab File ID: 1DL16011.D

Lab ID: 680-85534-5 MSD Client ID: HP0012B-CS MSD

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 813 | 383 | 47 | 35 | 40 | 39-130 | |
| Acenaphthylene | 813 | 409 | 47 | 35 | 40 | 38-130 | |
| Anthracene | 813 | 405 | 46 | 39 | 40 | 37-130 | |
| Benzo[a]anthracene | 813 | 474 | 46 | 41 | 40 | 40-130 | F |
| Benzo[a]pyrene | 813 | 433 | 41 | 39 | 40 | 49-130 | F |
| Benzo[b]fluoranthene | 813 | 563 | 47 | 35 | 40 | 37-130 | |
| Benzo[g,h,i]perylene | 813 | 374 | 36 | 43 | 40 | 32-130 | F |
| Benzo[k]fluoranthene | 813 | 409 | 43 | 47 | 40 | 32-130 | F |
| Chrysene | 813 | 508 | 43 | 43 | 40 | 41-130 | F |
| Dibenz(a,h)anthracene | 813 | 335 | 38 | 42 | 40 | 27-130 | F |
| Fluoranthene | 813 | 505 | 40 | 42 | 40 | 40-130 | F |
| Fluorene | 813 | 404 | 50 | 36 | 40 | 40-130 | |
| Indeno[1,2,3-cd]pyrene | 813 | 405 | 41 | 43 | 40 | 30-130 | F |
| 1-Methylnaphthalene | 813 | 461 | 45 | 38 | 40 | 31-130 | |
| 2-Methylnaphthalene | 813 | 487 | 45 | 37 | 40 | 33-130 | |
| Naphthalene | 813 | 475 | 43 | 35 | 40 | 36-130 | |
| Phenanthrene | 813 | 489 | 37 | 44 | 40 | 42-130 | F |
| Pyrene | 813 | 461 | 40 | 42 | 40 | 44-130 | F |

# Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Matrix: Solid Level: Low Lab File ID: 1AL14012.D

Lab ID: 680-85534-18 MSD Client ID: FM0165A-CS MSD

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 778 | 368 | 47 | 0 | 40 | 39-130 | |
| Acenaphthylene | 778 | 384 | 49 | 7 | 40 | 38-130 | |
| Anthracene | 778 | 424 | 54 | 0 | 40 | 37-130 | |
| Benzo[a]anthracene | 778 | 499 | 63 | 4 | 40 | 40-130 | |
| Benzo[a]pyrene | 778 | 365 | 47 | 11 | 40 | 49-130 | F |
| Benzo[b]fluoranthene | 778 | 490 | 62 | 26 | 40 | 37-130 | |
| Benzo[g,h,i]perylene | 778 | 468 | 60 | 2 | 40 | 32-130 | |
| Benzo[k]fluoranthene | 778 | 372 | 47 | 1 | 40 | 32-130 | |
| Chrysene | 778 | 492 | 62 | 11 | 40 | 41-130 | |
| Dibenz(a,h)anthracene | 778 | 410 | 53 | 5 | 40 | 27-130 | |
| Fluoranthene | 778 | 478 | 60 | 0 | 40 | 40-130 | |
| Fluorene | 778 | 436 | 56 | 11 | 40 | 40-130 | |
| Indeno[1,2,3-cd]pyrene | 778 | 420 | 54 | 8 | 40 | 30-130 | |
| 1-Methylnaphthalene | 778 | 413 | 53 | 3 | 40 | 31-130 | |
| 2-Methylnaphthalene | 778 | 401 | 52 | 6 | 40 | 33-130 | |
| Naphthalene | 778 | 383 | 49 | 2 | 40 | 36-130 | |
| Phenanthrene | 778 | 410 | 51 | 4 | 40 | 42-130 | |
| Pyrene | 778 | 426 | 53 | 8 | 40 | 44-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1AL13005.D Lab Sample ID: MB 660-132425/1-A

Matrix: Solid Date Extracted: 12/12/2012 16:13

Instrument ID: BSMA5973 Date Analyzed: 12/13/2012 11:58

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 660-132425/2-A | 1AL13006.D | 12/13/2012 12:13 |
| FM0025A-CS-SP | 680-85534-13 | 1AL13016.D | 12/13/2012 14:45 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1DL16006.D Lab Sample ID: MB 660-132458/1-A

Matrix: Solid Date Extracted: 12/13/2012 13:19

Instrument ID: BSMD5973 Date Analyzed: 12/16/2012 10:59

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 660-132458/2-A | 1DL16007.D | 12/16/2012 11:22 |
| HP0012B-CS | 680-85534-5 | 1DL16009.D | 12/16/2012 12:07 |
| HP0012B-CS MS | 680-85534-5 MS | 1DL16010.D | 12/16/2012 12:29 |
| HP0012B-CS MSD | 680-85534-5 MSD | 1DL16011.D | 12/16/2012 12:52 |
| FM0025B-CS | 680-85534-14 | 1DL16012.D | 12/16/2012 13:15 |
| FM0025C-CS-SP | 680-85534-15 | 1DL16013.D | 12/16/2012 13:38 |
| FM0025D-CS-SP | 680-85534-16 | 1DL16017.D | 12/16/2012 15:56 |
| FM0025E-CS | 680-85534-17 | 1DL16018.D | 12/16/2012 16:19 |
| FM0165B-CS | 680-85534-19 | 1DL16019.D | 12/16/2012 16:42 |
| FM0165C-CS | 680-85534-20 | 1DL16020.D | 12/16/2012 17:05 |
| FM0165D-CS | 680-85534-21 | 1DL16021.D | 12/16/2012 17:27 |
| FM0165E-CS | 680-85534-22 | 1DL16022.D | 12/16/2012 17:50 |
| FM0165F-CS | 680-85534-23 | 1DL16023.D | 12/16/2012 18:13 |
| FM0165G-CS | 680-85534-24 | 1DL16024.D | 12/16/2012 18:35 |
| FM0165H-CS | 680-85534-25 | 1DL16025.D | 12/16/2012 18:58 |
| FM0165I-CS | 680-85534-26 | 1DL16026.D | 12/16/2012 19:21 |
| FM0165J-CS | 680-85534-27 | 1DL16027.D | 12/16/2012 19:44 |
| FM0165K-CS | 680-85534-28 | 1DL16028.D | 12/16/2012 20:06 |
| FM0165L-CS | 680-85534-29 | 1DL16029.D | 12/16/2012 20:29 |
| FM0165M-CS | 680-85534-30 | 1DL16030.D | 12/16/2012 20:51 |
| FM0165F-CS DL | 680-85534-23 DL | 1CL18020.D | 12/18/2012 16:59 |
| FM0165F-CS DL2 | 680-85534-23 DL2 | 1CL18033.D | 12/18/2012 20:58 |
| FM0165N-CS | 680-85534-31 | 1DL19005.D | 12/19/2012 11:51 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1AL14005.D Lab Sample ID: MB 660-132474/1-A

Matrix: Solid Date Extracted: 12/13/2012 17:33

Instrument ID: BSMA5973 Date Analyzed: 12/14/2012 12:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 660-132474/2-A | 1AL14006.D | 12/14/2012 13:00 |
| FM0165A-CS | 680-85534-18 | 1AL14010.D | 12/14/2012 14:01 |
| FM0165A-CS MS | 680-85534-18 MS | 1AL14011.D | 12/14/2012 14:16 |
| FM0165A-CS MSD | 680-85534-18 MSD | 1AL14012.D | 12/14/2012 14:31 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1AK26002.D DFTPP Injection Date: 11/26/2012

Instrument ID: BSMA5973 DFTPP Injection Time: 13:33

Analysis Batch No.: 131833

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 29.7 | |
| 68 | Less than 2.0 % of mass 69 | 0.6 | (1.4)1 |
| 69 | Mass 69 relative abundance | 43.7 | |
| 70 | Less than 2.0 % of mass 69 | 0.8 | (1.8)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 44.2 | |
| 197 | Less than 1.0 % of mass 198 | 1.7 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 7.3 | |
| 275 | 10.0 - 30.0 % of mass 198 | 32.0 | |
| 365 | Greater than 1.0 % of mass 198 | 4.9 | |
| 441 | Present but less than mass 443 | 16.2 | (68.2)1 |
| 442 | Greater than 40.0 % of mass 198 | 131.6 | |
| 443 | 17.0 - 23.0 % of mass 442 | 23.7 | (18.0)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 660-131833/3 | 1AK26003.D | 11/26/2012 | 13:48 |
| | IC 660-131833/4 | 1AK26004.D | 11/26/2012 | 14:04 |
| | IC 660-131833/5 | 1AK26005.D | 11/26/2012 | 14:19 |
| | IC 660-131833/6 | 1AK26006.D | 11/26/2012 | 14:34 |
| | ICIS 660-131833/7 | 1AK26007.D | 11/26/2012 | 14:50 |
| | IC 660-131833/8 | 1AK26008.D | 11/26/2012 | 15:05 |
| | IC 660-131833/9 | 1AK26009.D | 11/26/2012 | 15:20 |
| | ICV 660-131833/10 | 1AK26010.D | 11/26/2012 | 15:35 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1AL13002.D DFTPP Injection Date: 12/13/2012

Instrument ID: BSMA5973 DFTPP Injection Time: 11:07

Analysis Batch No.: 132552

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 20.5 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 31.4 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 31.7 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 5.9 | |
| 275 | 10.0 - 30.0 % of mass 198 | 31.3 | |
| 365 | Greater than 1.0 % of mass 198 | 4.3 | |
| 441 | Present but less than mass 443 | 25.8 | (76.4)1 |
| 442 | Greater than 40.0 % of mass 198 | 150.8 | |
| 443 | 17.0 - 23.0 % of mass 442 | 33.8 | (22.4)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 660-132552/3 | 1AL13003.D | 12/13/2012 | 11:21 |
| | MB 660-132425/1-A | 1AL13005.D | 12/13/2012 | 11:58 |
| | LCS 660-132425/2-A | 1AL13006.D | 12/13/2012 | 12:13 |
| FM0025A-CS-SP | 680-85534-13 | 1AL13016.D | 12/13/2012 | 14:45 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1AL14002.D DFTPP Injection Date: 12/14/2012

Instrument ID: BSMA5973 DFTPP Injection Time: 11:58

Analysis Batch No.: 132527

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 24.7 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 41.9 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 25.1 | |
| 197 | Less than 1.0 % of mass 198 | 1.1 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 5.6 | |
| 275 | 10.0 - 30.0 % of mass 198 | 31.9 | |
| 365 | Greater than 1.0 % of mass 198 | 5.0 | |
| 441 | Present but less than mass 443 | 34.5 | (98.2)1 |
| 442 | Greater than 40.0 % of mass 198 | 152.8 | |
| 443 | 17.0 - 23.0 % of mass 442 | 35.1 | (23.0)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 660-132527/3 | 1AL14003.D | 12/14/2012 | 12:13 |
| | MB 660-132474/1-A | 1AL14005.D | 12/14/2012 | 12:45 |
| | LCS 660-132474/2-A | 1AL14006.D | 12/14/2012 | 13:00 |
| FM0165A-CS | 680-85534-18 | 1AL14010.D | 12/14/2012 | 14:01 |
| FM0165A-CS MS | 680-85534-18 MS | 1AL14011.D | 12/14/2012 | 14:16 |
| FM0165A-CS MSD | 680-85534-18 MSD | 1AL14012.D | 12/14/2012 | 14:31 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1CK29002.D DFTPP Injection Date: 11/29/2012

Instrument ID: BSMC5973 DFTPP Injection Time: 10:59

Analysis Batch No.: 131957

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 27.7 | |
| 68 | Less than 2.0 % of mass 69 | 0.3 | (0.7)1 |
| 69 | Mass 69 relative abundance | 37.9 | |
| 70 | Less than 2.0 % of mass 69 | 0.2 | (0.6)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 44.0 | |
| 197 | Less than 1.0 % of mass 198 | 1.2 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 6.8 | |
| 275 | 10.0 - 30.0 % of mass 198 | 23.2 | |
| 365 | Greater than 1.0 % of mass 198 | 3.6 | |
| 441 | Present but less than mass 443 | 11.7 | (69.5)1 |
| 442 | Greater than 40.0 % of mass 198 | 81.2 | |
| 443 | 17.0 - 23.0 % of mass 442 | 16.8 | (20.7)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 660-131957/3 | 1CK29003.D | 11/29/2012 | 11:16 |
| | IC 660-131957/4 | 1CK29004.D | 11/29/2012 | 11:34 |
| | IC 660-131957/5 | 1CK29005.D | 11/29/2012 | 11:53 |
| | IC 660-131957/6 | 1CK29006.D | 11/29/2012 | 12:11 |
| | ICIS 660-131957/7 | 1CK29007.D | 11/29/2012 | 12:29 |
| | IC 660-131957/8 | 1CK29008.D | 11/29/2012 | 12:48 |
| | IC 660-131957/9 | 1CK29009.D | 11/29/2012 | 13:06 |
| | ICV 660-131957/10 | 1CK29010.D | 11/29/2012 | 13:25 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1CL18002.D DFTPP Injection Date: 12/18/2012

Instrument ID: BSMC5973 DFTPP Injection Time: 11:17

Analysis Batch No.: 132652

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 30.2 | |
| 68 | Less than 2.0 % of mass 69 | 0.7 | (1.8)1 |
| 69 | Mass 69 relative abundance | 37.6 | |
| 70 | Less than 2.0 % of mass 69 | 0.3 | (0.9)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 40.4 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 7.1 | |
| 275 | 10.0 - 30.0 % of mass 198 | 22.6 | |
| 365 | Greater than 1.0 % of mass 198 | 3.0 | |
| 441 | Present but less than mass 443 | 16.1 | (74.3)1 |
| 442 | Greater than 40.0 % of mass 198 | 109.2 | |
| 443 | 17.0 - 23.0 % of mass 442 | 21.7 | (19.8)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 660-132652/3 | 1CL18003.D | 12/18/2012 | 11:34 |
| FM0165F-CS DL | 680-85534-23 DL | 1CL18020.D | 12/18/2012 | 16:59 |
| FM0165F-CS DL2 | 680-85534-23 DL2 | 1CL18033.D | 12/18/2012 | 20:58 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1DL06002.D DFTPP Injection Date: 12/06/2012

Instrument ID: BSMD5973 DFTPP Injection Time: 11:28

Analysis Batch No.: 132234

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 43.1 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 46.3 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 53.7 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 7.6 | |
| 275 | 10.0 - 30.0 % of mass 198 | 26.7 | |
| 365 | Greater than 1.0 % of mass 198 | 2.8 | |
| 441 | Present but less than mass 443 | 9.2 | (73.9)1 |
| 442 | Greater than 40.0 % of mass 198 | 63.5 | |
| 443 | 17.0 - 23.0 % of mass 442 | 12.5 | (19.7)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 660-132234/3 | 1DL06003.D | 12/06/2012 | 11:59 |
| | IC 660-132234/4 | 1DL06004.D | 12/06/2012 | 12:21 |
| | IC 660-132234/5 | 1DL06005.D | 12/06/2012 | 12:44 |
| | IC 660-132234/6 | 1DL06006.D | 12/06/2012 | 13:07 |
| | ICIS 660-132234/7 | 1DL06007.D | 12/06/2012 | 13:29 |
| | IC 660-132234/8 | 1DL06008.D | 12/06/2012 | 13:52 |
| | IC 660-132234/9 | 1DL06009.D | 12/06/2012 | 14:14 |
| | ICV 660-132234/10 | 1DL06010.D | 12/06/2012 | 14:37 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1DL16002.D DFTPP Injection Date: 12/16/2012

Instrument ID: BSMD5973 DFTPP Injection Time: 09:07

Analysis Batch No.: 132553

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 32.2 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 34.2 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 41.8 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 6.8 | |
| 275 | 10.0 - 30.0 % of mass 198 | 31.6 | |
| 365 | Greater than 1.0 % of mass 198 | 3.8 | |
| 441 | Present but less than mass 443 | 15.3 | (76.9)1 |
| 442 | Greater than 40.0 % of mass 198 | 100.3 | |
| 443 | 17.0 - 23.0 % of mass 442 | 19.8 | (19.8)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 660-132553/3 | 1DL16003.D | 12/16/2012 | 09:42 |
| | MB 660-132458/1-A | 1DL16006.D | 12/16/2012 | 10:59 |
| | LCS 660-132458/2-A | 1DL16007.D | 12/16/2012 | 11:22 |
| HP0012B-CS | 680-85534-5 | 1DL16009.D | 12/16/2012 | 12:07 |
| HP0012B-CS MS | 680-85534-5 MS | 1DL16010.D | 12/16/2012 | 12:29 |
| HP0012B-CS MSD | 680-85534-5 MSD | 1DL16011.D | 12/16/2012 | 12:52 |
| FM0025B-CS | 680-85534-14 | 1DL16012.D | 12/16/2012 | 13:15 |
| FM0025C-CS-SP | 680-85534-15 | 1DL16013.D | 12/16/2012 | 13:38 |
| FM0025D-CS-SP | 680-85534-16 | 1DL16017.D | 12/16/2012 | 15:56 |
| FM0025E-CS | 680-85534-17 | 1DL16018.D | 12/16/2012 | 16:19 |
| FM0165B-CS | 680-85534-19 | 1DL16019.D | 12/16/2012 | 16:42 |
| FM0165C-CS | 680-85534-20 | 1DL16020.D | 12/16/2012 | 17:05 |
| FM0165D-CS | 680-85534-21 | 1DL16021.D | 12/16/2012 | 17:27 |
| FM0165E-CS | 680-85534-22 | 1DL16022.D | 12/16/2012 | 17:50 |
| FM0165F-CS | 680-85534-23 | 1DL16023.D | 12/16/2012 | 18:13 |
| FM0165G-CS | 680-85534-24 | 1DL16024.D | 12/16/2012 | 18:35 |
| FM0165H-CS | 680-85534-25 | 1DL16025.D | 12/16/2012 | 18:58 |
| FM0165I-CS | 680-85534-26 | 1DL16026.D | 12/16/2012 | 19:21 |
| FM0165J-CS | 680-85534-27 | 1DL16027.D | 12/16/2012 | 19:44 |
| FM0165K-CS | 680-85534-28 | 1DL16028.D | 12/16/2012 | 20:06 |
| FM0165L-CS | 680-85534-29 | 1DL16029.D | 12/16/2012 | 20:29 |
| FM0165M-CS | 680-85534-30 | 1DL16030.D | 12/16/2012 | 20:51 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab File ID: 1DL19002.D DFTPP Injection Date: 12/19/2012

Instrument ID: BSMD5973 DFTPP Injection Time: 10:29

Analysis Batch No.: 132707

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 31.1 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 33.4 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 42.6 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 6.6 | |
| 275 | 10.0 - 30.0 % of mass 198 | 28.8 | |
| 365 | Greater than 1.0 % of mass 198 | 4.5 | |
| 441 | Present but less than mass 443 | 16.6 | (82.7)1 |
| 442 | Greater than 40.0 % of mass 198 | 106.8 | |
| 443 | 17.0 - 23.0 % of mass 442 | 20.1 | (18.8)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 660-132707/2 | 1DL19003.D | 12/19/2012 | 10:48 |
| FM0165N-CS | 680-85534-31 | 1DL19005.D | 12/19/2012 | 11:51 |

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: ICIS 660-131833/7 Date Analyzed: 11/26/2012 14:50

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AK26007.D Heated Purge: (Y/N) N

Calibration ID: 2567

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 868877 | 2.77 | 483504 | 3.81 | 776605 | 4.81 |
| UPPER LIMIT | | 1737754 | 3.27 | 967008 | 4.31 | 1553210 | 5.31 |
| LOWER LIMIT | | 434439 | 2.27 | 241752 | 3.31 | 388303 | 4.31 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 660-131833/10 | | 760524 | 2.78 | 463040 | 3.82 | 729168 | 4.81 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: ICIS 660-131833/7 Date Analyzed: 11/26/2012 14:50

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AK26007.D Heated Purge: (Y/N) N

Calibration ID: 2567

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 739631 | 6.89 | 669850 | 7.99 | | |
| UPPER LIMIT | | 1479262 | 7.39 | 1339700 | 8.49 | | |
| LOWER LIMIT | | 369816 | 6.39 | 334925 | 7.49 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 660-131833/10 | | 672174 | 6.88 | 627465 | 8.00 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132552/3 Date Analyzed: 12/13/2012 11:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AL13003.D Heated Purge: (Y/N) N

Calibration ID: 2567

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 906200 | 2.75 | 529335 | 3.79 | 820034 | 4.80 |
| UPPER LIMIT | | 1812400 | 3.25 | 1058670 | 4.29 | 1640068 | 5.30 |
| LOWER LIMIT | | 453100 | 2.25 | 264668 | 3.29 | 410017 | 4.30 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 660-132425/1-A | | 1035142 | 2.75 | 672257 | 3.80 | 994961 | 4.80 |
| LCS 660-132425/2-A | | 785479 | 2.75 | 526424 | 3.80 | 780531 | 4.80 |
| 680-85534-13 | FM0025A-CS-SP | 601095 | 2.76 | 395702 | 3.80 | 678385 | 4.80 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132552/3 Date Analyzed: 12/13/2012 11:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AL13003.D Heated Purge: (Y/N) N

Calibration ID: 2567

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 785863 | 6.88 | 762326 | 8.00 | | |
| UPPER LIMIT | | 1571726 | 7.38 | 1524652 | 8.50 | | |
| LOWER LIMIT | | 392932 | 6.38 | 381163 | 7.50 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 660-132425/1-A | | 913977 | 6.88 | 876412 | 8.00 | | |
| LCS 660-132425/2-A | | 739945 | 6.88 | 726194 | 8.00 | | |
| 680-85534-13 | FM0025A-CS-SP | 451732 | 6.89 | 524882 | 8.02 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132527/3 Date Analyzed: 12/14/2012 12:13

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AL14003.D Heated Purge: (Y/N) N

Calibration ID: 2567

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 917256 | 2.76 | 536826 | 3.80 | 830006 | 4.81 |
| UPPER LIMIT | | 1834512 | 3.26 | 1073652 | 4.30 | 1660012 | 5.31 |
| LOWER LIMIT | | 458628 | 2.26 | 268413 | 3.30 | 415003 | 4.31 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 660-132474/1-A | | 943321 | 2.76 | 607698 | 3.80 | 905366 | 4.81 |
| LCS 660-132474/2-A | | 922328 | 2.76 | 618806 | 3.80 | 943949 | 4.81 |
| 680-85534-18 | FM0165A-CS | 811802 | 2.76 | 525740 | 3.81 | 823427 | 4.81 |
| 680-85534-18 MS | FM0165A-CS MS | 783611 | 2.76 | 493152 | 3.81 | 757179 | 4.81 |
| 680-85534-18 MSD | FM0165A-CS MSD | 820676 | 2.76 | 502034 | 3.80 | 807762 | 4.81 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132527/3 Date Analyzed: 12/14/2012 12:13

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AL14003.D Heated Purge: (Y/N) N

Calibration ID: 2567

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 829329 | 6.90 | 822472 | 8.03 | | |
| UPPER LIMIT | | 1658658 | 7.40 | 1644944 | 8.53 | | |
| LOWER LIMIT | | 414665 | 6.40 | 411236 | 7.53 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 660-132474/1-A | | 861630 | 6.89 | 863640 | 8.02 | | |
| LCS 660-132474/2-A | | 962915 | 6.90 | 945024 | 8.02 | | |
| 680-85534-18 | FM0165A-CS | 635349 | 6.90 | 450355 | 8.03 | | |
| 680-85534-18 MS | FM0165A-CS MS | 859671 | 6.90 | 461195 | 8.04 | | |
| 680-85534-18 MSD | FM0165A-CS MSD | 870742 | 6.90 | 467631 | 8.03 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: ICIS 660-131957/7 Date Analyzed: 11/29/2012 12:29

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CK29007.D Heated Purge: (Y/N) N

Calibration ID: 2585

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 2622521 | 3.92 | 1831110 | 5.01 | 3246599 | 5.97 |
| UPPER LIMIT | | 5245042 | 4.42 | 3662220 | 5.51 | 6493198 | 6.47 |
| LOWER LIMIT | | 1311261 | 3.42 | 915555 | 4.51 | 1623300 | 5.47 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 660-131957/10 | | 2559683 | 3.92 | 1821949 | 5.01 | 3290747 | 5.97 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: ICIS 660-131957/7 Date Analyzed: 11/29/2012 12:29

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CK29007.D Heated Purge: (Y/N) N

Calibration ID: 2585

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 3719237 | 7.93 | 3931415 | 9.20 | | |
| UPPER LIMIT | | 7438474 | 8.43 | 7862830 | 9.70 | | |
| LOWER LIMIT | | 1859619 | 7.43 | 1965708 | 8.70 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 660-131957/10 | | 3654392 | 7.93 | 3944755 | 9.20 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132652/3 Date Analyzed: 12/18/2012 11:34

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CL18003.D Heated Purge: (Y/N) N

Calibration ID: 2585

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 4051366 | 3.90 | 3114610 | 4.99 | 6040843 | 5.96 |
| UPPER LIMIT | | 8102732 | 4.40 | 6229220 | 5.49 | 12081686 | 6.46 |
| LOWER LIMIT | | 2025683 | 3.40 | 1557305 | 4.49 | 3020422 | 5.46 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| 680-85534-23 DL | FM0165F-CS DL | 3546248 | 3.90 | 2741475 | 4.99 | 5280239 | 5.96 |
| 680-85534-23 DL2 | FM0165F-CS DL2 | 3582258 | 3.90 | 2797599 | 4.99 | 5122673 | 5.96 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132652/3 Date Analyzed: 12/18/2012 11:34

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CL18003.D Heated Purge: (Y/N) N

Calibration ID: 2585

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 6466247 | 7.92 | 6376139 | 9.19 | | |
| UPPER LIMIT | | 12932494 | 8.42 | 12752278 | 9.69 | | |
| LOWER LIMIT | | 3233124 | 7.42 | 3188070 | 8.69 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| 680-85534-23 DL | FM0165F-CS DL | 5181107 | 7.92 | 4805184 | 9.18 | | |
| 680-85534-23 DL2 | FM0165F-CS DL2 | 4897595 | 7.92 | 4524494 | 9.18 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: ICIS 660-132234/7 Date Analyzed: 12/06/2012 13:29

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DL06007.D Heated Purge: (Y/N) N

Calibration ID: 2610

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 3126609 | 6.26 | 1812557 | 7.93 | 2958101 | 9.19 |
| UPPER LIMIT | | 6253218 | 6.76 | 3625114 | 8.43 | 5916202 | 9.69 |
| LOWER LIMIT | | 1563305 | 5.76 | 906279 | 7.43 | 1479051 | 8.69 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 660-132234/10 | | 2862447 | 6.27 | 1711045 | 7.93 | 2836626 | 9.19 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: ICIS 660-132234/7 Date Analyzed: 12/06/2012 13:29

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DL06007.D Heated Purge: (Y/N) N

Calibration ID: 2610

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 2867483 | 11.55 | 2964285 | 13.46 | | |
| UPPER LIMIT | | 5734966 | 12.05 | 5928570 | 13.96 | | |
| LOWER LIMIT | | 1433742 | 11.05 | 1482143 | 12.96 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 660-132234/10 | | 2720860 | 11.55 | 2822120 | 13.46 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132553/3 Date Analyzed: 12/16/2012 09:42

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DL16003.D Heated Purge: (Y/N) N

Calibration ID: 2610

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 3809616 | 6.27 | 2247283 | 7.93 | 3709449 | 9.19 |
| UPPER LIMIT | | 7619232 | 6.77 | 4494566 | 8.43 | 7418898 | 9.69 |
| LOWER LIMIT | | 1904808 | 5.77 | 1123642 | 7.43 | 1854725 | 8.69 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 660-132458/1-A | | 4664972 | 6.26 | 2817446 | 7.93 | 4575818 | 9.19 |
| LCS 660-132458/2-A | | 4685887 | 6.26 | 2839807 | 7.93 | 4552176 | 9.19 |
| 680-85534-5 | HP0012B-CS | 3982120 | 6.26 | 2356920 | 7.93 | 3822911 | 9.19 |
| 680-85534-5 MS | HP0012B-CS MS | 4122215 | 6.26 | 2444826 | 7.93 | 3967708 | 9.19 |
| 680-85534-5 MSD | HP0012B-CS MSD | 4182485 | 6.26 | 2473096 | 7.93 | 3993127 | 9.19 |
| 680-85534-14 | FM0025B-CS | 4112557 | 6.26 | 2435955 | 7.93 | 3939813 | 9.19 |
| 680-85534-15 | FM0025C-CS-SP | 4124335 | 6.26 | 2418864 | 7.93 | 3937433 | 9.19 |
| 680-85534-16 | FM0025D-CS-SP | 4036532 | 6.26 | 2380004 | 7.93 | 3775488 | 9.19 |
| 680-85534-17 | FM0025E-CS | 4015942 | 6.27 | 2360953 | 7.94 | 3744742 | 9.20 |
| 680-85534-19 | FM0165B-CS | 4129224 | 6.27 | 2411399 | 7.94 | 3867872 | 9.20 |
| 680-85534-20 | FM0165C-CS | 4214109 | 6.27 | 2480428 | 7.94 | 3979704 | 9.20 |
| 680-85534-21 | FM0165D-CS | 4195603 | 6.27 | 2474368 | 7.93 | 3977194 | 9.20 |
| 680-85534-22 | FM0165E-CS | 4277304 | 6.27 | 2560915 | 7.93 | 4024454 | 9.20 |
| 680-85534-23 | FM0165F-CS | 4251639 | 6.27 | 2518772 | 7.94 | 3585334 | 9.23 |
| 680-85534-24 | FM0165G-CS | 4175576 | 6.27 | 2429637 | 7.93 | 3881230 | 9.20 |
| 680-85534-25 | FM0165H-CS | 4165292 | 6.27 | 2430666 | 7.94 | 3955091 | 9.20 |
| 680-85534-26 | FM0165I-CS | 4333706 | 6.27 | 2548695 | 7.94 | 4093002 | 9.20 |
| 680-85534-27 | FM0165J-CS | 4275725 | 6.27 | 2491069 | 7.94 | 4001910 | 9.20 |
| 680-85534-28 | FM0165K-CS | 4346435 | 6.27 | 2575704 | 7.93 | 4074027 | 9.20 |
| 680-85534-29 | FM0165L-CS | 4352082 | 6.27 | 2566300 | 7.94 | 4103410 | 9.20 |
| 680-85534-30 | FM0165M-CS | 4334016 | 6.27 | 2556193 | 7.94 | 4056570 | 9.20 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132553/3 Date Analyzed: 12/16/2012 09:42

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DL16003.D Heated Purge: (Y/N) N

Calibration ID: 2610

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 3603113 | 11.55 | 3723937 | 13.46 | | |
| UPPER LIMIT | | 7206226 | 12.05 | 7447874 | 13.96 | | |
| LOWER LIMIT | | 1801557 | 11.05 | 1861969 | 12.96 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 660-132458/1-A | | 4498824 | 11.55 | 4643347 | 13.46 | | |
| LCS 660-132458/2-A | | 4453697 | 11.55 | 4520602 | 13.46 | | |
| 680-85534-5 | HP0012B-CS | 3664719 | 11.55 | 3891768 | 13.46 | | |
| 680-85534-5 MS | HP0012B-CS MS | 3789192 | 11.56 | 4065803 | 13.48 | | |
| 680-85534-5 MSD | HP0012B-CS MSD | 3752593 | 11.56 | 3991868 | 13.47 | | |
| 680-85534-14 | FM0025B-CS | 3807074 | 11.55 | 3943672 | 13.47 | | |
| 680-85534-15 | FM0025C-CS-SP | 3772157 | 11.56 | 3936195 | 13.47 | | |
| 680-85534-16 | FM0025D-CS-SP | 3710937 | 11.56 | 3660215 | 13.48 | | |
| 680-85534-17 | FM0025E-CS | 3784813 | 11.57 | 3396506 | 13.50 | | |
| 680-85534-19 | FM0165B-CS | 3801646 | 11.57 | 3682852 | 13.48 | | |
| 680-85534-20 | FM0165C-CS | 3868490 | 11.56 | 3668804 | 13.48 | | |
| 680-85534-21 | FM0165D-CS | 3887419 | 11.57 | 3767586 | 13.48 | | |
| 680-85534-22 | FM0165E-CS | 3969177 | 11.57 | 3841279 | 13.48 | | |
| 680-85534-23 | FM0165F-CS | 3570259 | 11.66 | 3670857 | 13.59 | | |
| 680-85534-24 | FM0165G-CS | 3870622 | 11.57 | 3674426 | 13.49 | | |
| 680-85534-25 | FM0165H-CS | 3870666 | 11.56 | 3552108 | 13.48 | | |
| 680-85534-26 | FM0165I-CS | 4002999 | 11.57 | 3673114 | 13.49 | | |
| 680-85534-27 | FM0165J-CS | 3974600 | 11.57 | 3665568 | 13.49 | | |
| 680-85534-28 | FM0165K-CS | 4018028 | 11.57 | 3724962 | 13.49 | | |
| 680-85534-29 | FM0165L-CS | 4062406 | 11.57 | 3746293 | 13.48 | | |
| 680-85534-30 | FM0165M-CS | 4006402 | 11.57 | 3657325 | 13.49 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132707/2 Date Analyzed: 12/19/2012 10:48

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DL19003.D Heated Purge: (Y/N) N

Calibration ID: 2610

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 3450659 | 6.26 | 2041752 | 7.93 | 3352549 | 9.19 |
| UPPER LIMIT | | 6901318 | 6.76 | 4083504 | 8.43 | 6705098 | 9.69 |
| LOWER LIMIT | | 1725330 | 5.76 | 1020876 | 7.43 | 1676275 | 8.69 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| 680-85534-31 | FM0165N-CS | 3798485 | 6.27 | 2254623 | 7.94 | 3703805 | 9.19 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Sample No.: CCVIS 660-132707/2 Date Analyzed: 12/19/2012 10:48

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DL19003.D Heated Purge: (Y/N) N

Calibration ID: 2610

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 3335935 | 11.56 | 3510601 | 13.47 | | |
| UPPER LIMIT | | 6671870 | 12.06 | 7021202 | 13.97 | | |
| LOWER LIMIT | | 1667968 | 11.06 | 1755301 | 12.97 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| 680-85534-31 | FM0165N-CS | 3589969 | 11.56 | 3749804 | 13.48 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: HP0012B-CS | Lab Sample ID: 680-85534-5

Matrix: Solid | Lab File ID: 1DL16009.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 11:45

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.00(g) | Date Analyzed: 12/16/2012 12:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 24 |
| 208-96-8 | Acenaphthylene | 26 | J | 49 | 6.1 |
| 120-12-7 | Anthracene | 33 | | 10 | 5.1 |
| 56-55-3 | Benzo[a]anthracene | 100 | F | 9.8 | 4.8 |
| 50-32-8 | Benzo[a]pyrene | 96 | F | 13 | 6.3 |
| 205-99-2 | Benzo[b]fluoranthene | 180 | | 15 | 7.4 |
| 191-24-2 | Benzo[g,h,i]perylene | 83 | F | 24 | 5.4 |
| 207-08-9 | Benzo[k]fluoranthene | 62 | F | 9.8 | 4.4 |
| 218-01-9 | Chrysene | 160 | F | 11 | 5.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 27 | F | 24 | 5.0 |
| 206-44-0 | Fluoranthene | 180 | F | 24 | 4.9 |
| 86-73-7 | Fluorene | 24 | U | 24 | 5.0 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 74 | F | 24 | 8.7 |
| 90-12-0 | 1-Methylnaphthalene | 97 | | 49 | 5.4 |
| 91-57-6 | 2-Methylnaphthalene | 120 | | 49 | 8.7 |
| 91-20-3 | Naphthalene | 130 | | 49 | 5.4 |
| 85-01-8 | Phenanthrene | 190 | F | 9.8 | 4.8 |
| 129-00-0 | Pyrene | 130 | F | 24 | 4.5 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 56 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16009.D
Lab Smp Id: 680-85534-A-5-A  Client Smp ID: HP0012B-CS
Inj Date : 16-DEC-2012 12:07
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-5-A
Misc Info : 680-85534-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.000 | Weight Extracted |
| M | 17.968 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.261 | 6.265 | (1.000) | 3982120 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.929 | 7.934 | (1.000) | 2356920 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.187 | 9.191 | (1.000) | 3822911 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.498 | 9.503 | (1.034) | 338952 | 5.62132 | 460 |
| * 17 Chrysene-d12 | 240 | 11.549 | 11.553 | (1.000) | 3664719 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.464 | 13.463 | (1.000) | 3891768 | 40.0000 | |
| 2 Naphthalene | 128 | 6.278 | 6.283 | (1.003) | 164273 | 1.58873 | 130 |
| 3 2-Methylnaphthalene | 142 | 6.978 | 6.982 | (1.114) | 101416 | 1.51911 | 120 |
| 4 1-Methylnaphthalene | 142 | 7.072 | 7.076 | (1.129) | 75806 | 1.19773 | 97 |
| 5 Acenaphthylene | 152 | 7.800 | 7.805 | (0.984) | 33433 | 0.32473 | 26 |
| 10 Phenanthrene | 178 | 9.204 | 9.209 | (1.002) | 255959 | 2.33997 | 190 |
| 11 Anthracene | 178 | 9.245 | 9.250 | (1.006) | 44598 | 0.40668 | 33 |
| 12 Carbazole | 167 | 9.375 | 9.379 | (1.020) | 25555 | 0.26322 | 21 |
| 14 Fluoranthene | 202 | 10.186 | 10.190 | (1.109) | 243729 | 2.20467 | 180 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Pyrene | 202 | 10.374 | 10.378 | (0.898) | 189218 | 1.61891 | 130 |
| 16 Benzo(a)anthracene | 228 | 11.531 | 11.530 | (0.998) | 124849 | 1.26233 | 100 |
| 18 Chrysene | 228 | 11.572 | 11.583 | (1.002) | 206642 | 1.99033 | 160 |
| 19 Benzo(b)fluoranthene | 252 | 12.882 | 12.893 | (0.957) | 211743 | 2.21672 | 180 |
| 20 Benzo(k)fluoranthene | 252 | 12.918 | 12.940 | (0.959) | 80092 | 0.75677 | 62 |
| 21 Benzo(a)pyrene | 252 | 13.352 | 13.363 | (0.992) | 113064 | 1.18629 | 96 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.092 | 15.114 | (1.121) | 85220 | 0.90657 | 74(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.127 | 15.149 | (1.123) | 30529 | 0.33086 | 27 |
| 25 Benzo(g,h,i)perylene | 276 | 15.562 | 15.590 | (1.156) | 98574 | 1.01860 | 83(MH) |

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16009.D

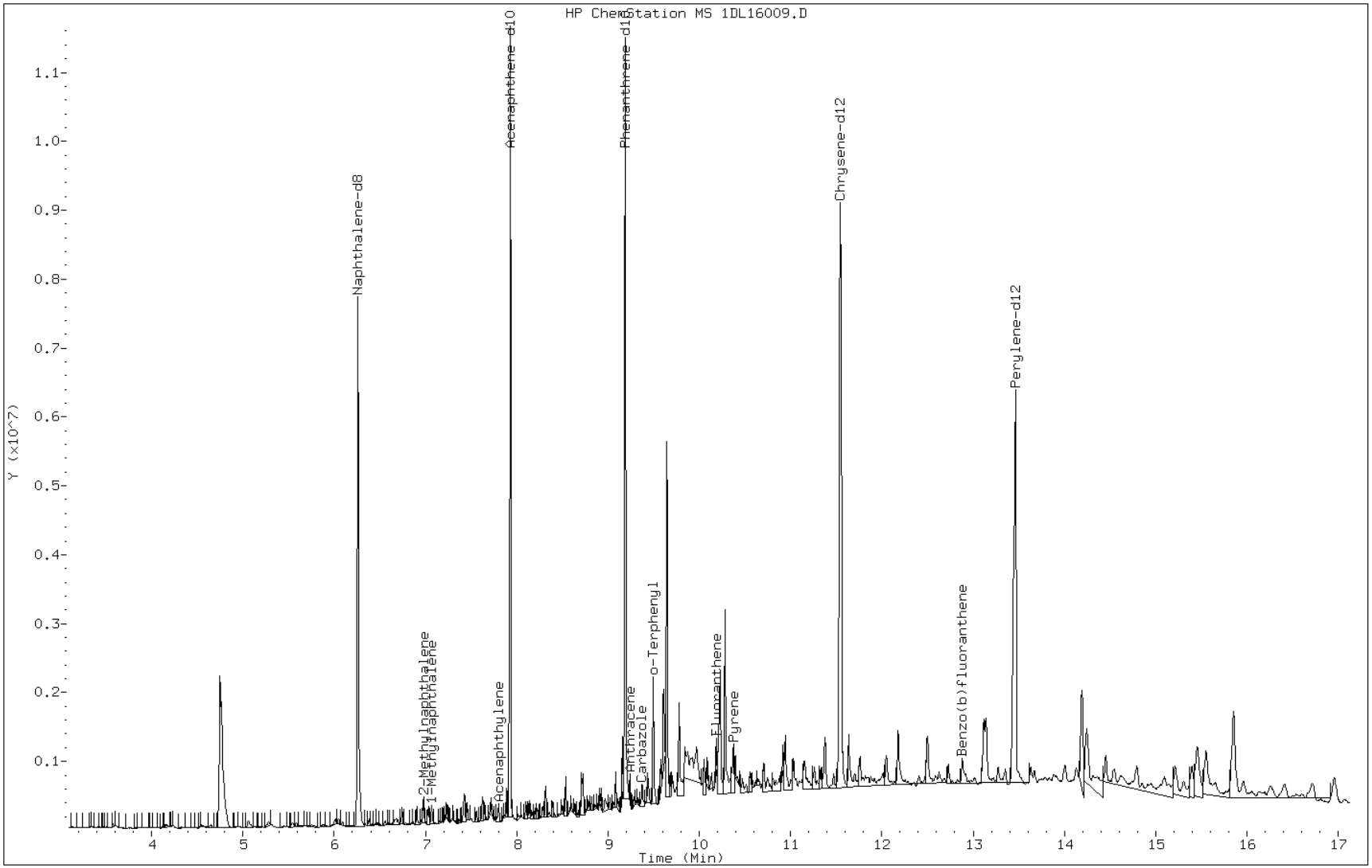
Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A

Operator: SCC



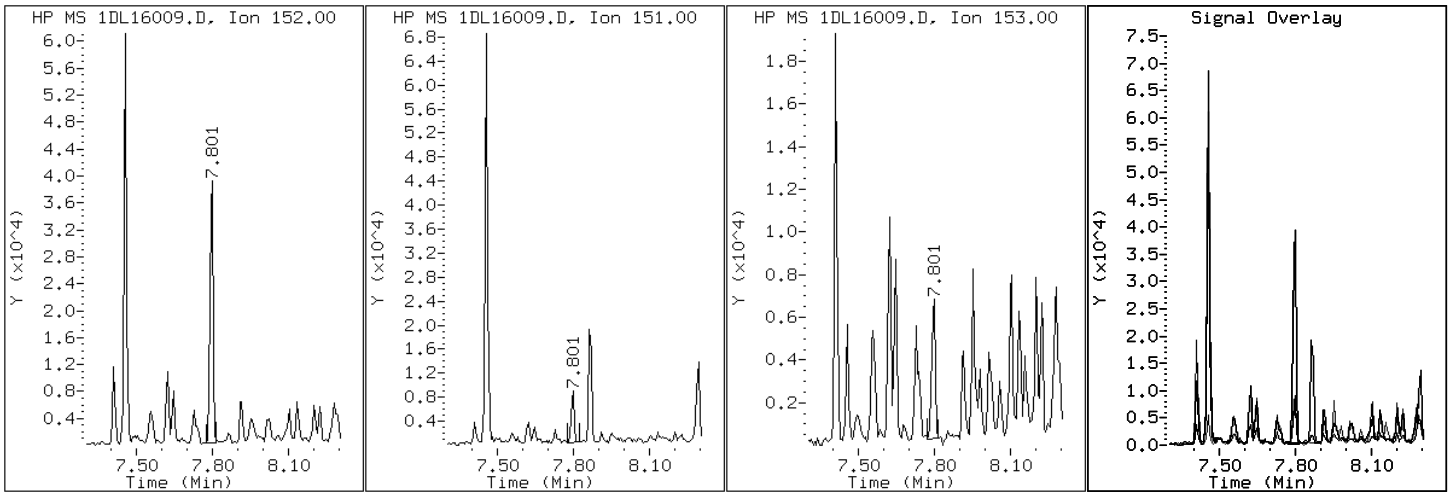
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

5 Acenaphthylene



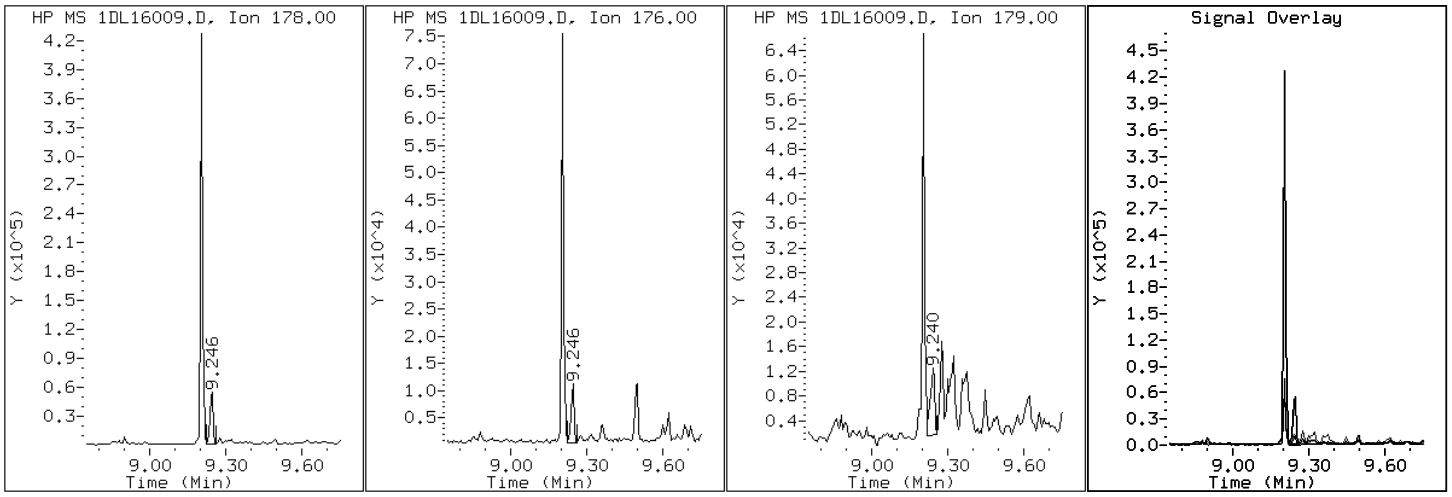
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

11 Anthracene



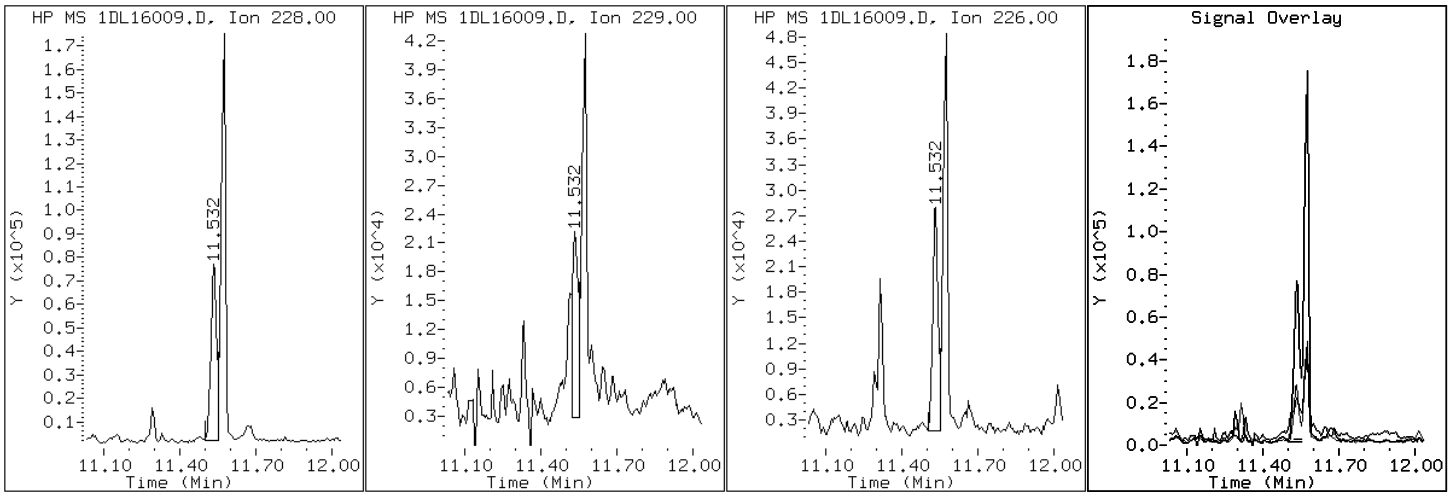
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

16 Benzo(a)anthracene



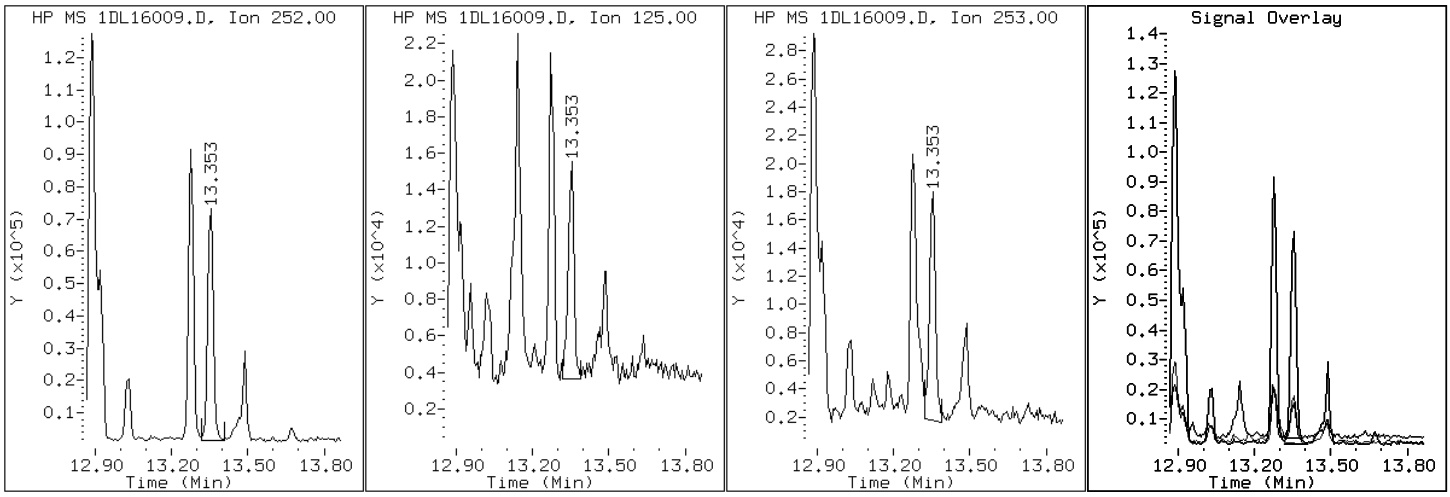
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

21 Benzo(a)pyrene



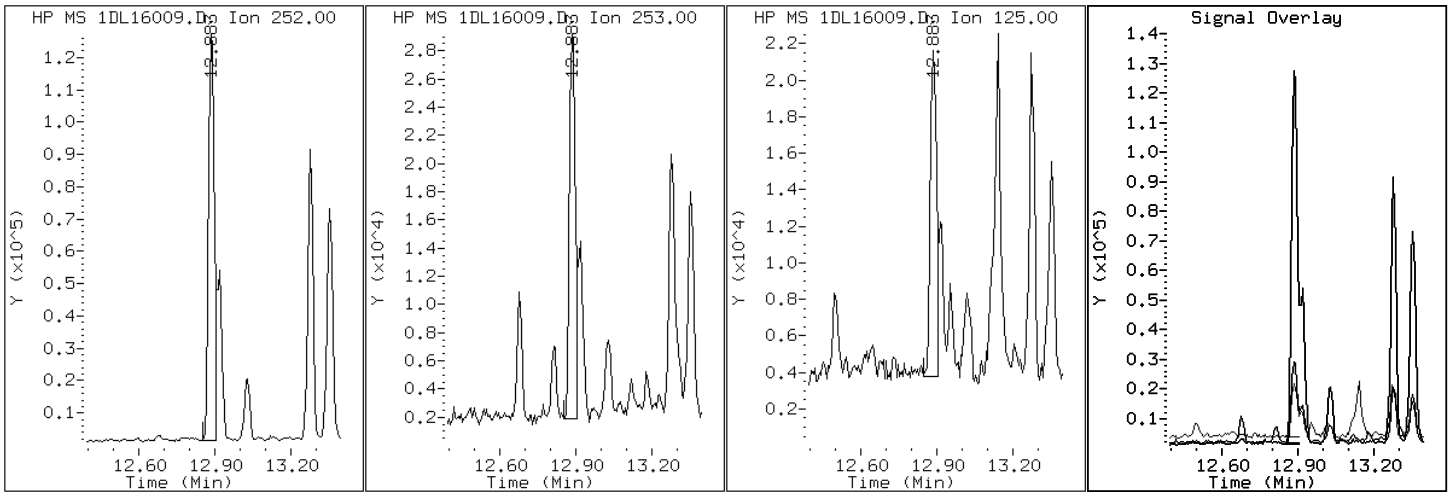
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

19 Benzo(b)fluoranthene



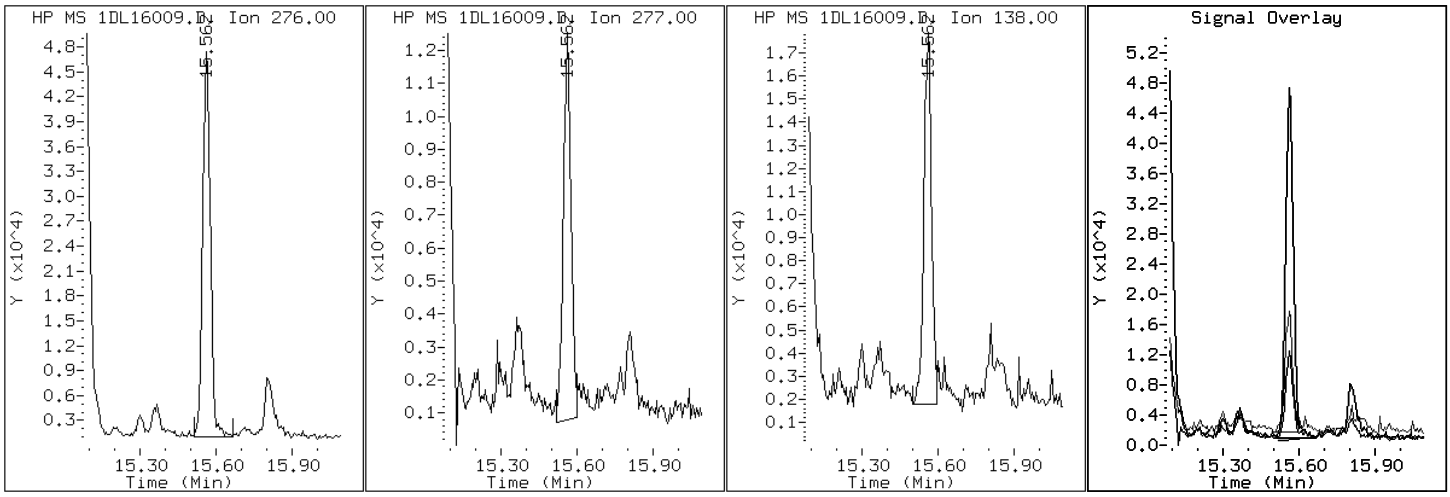
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

25 Benzo(g,h,i)perylene



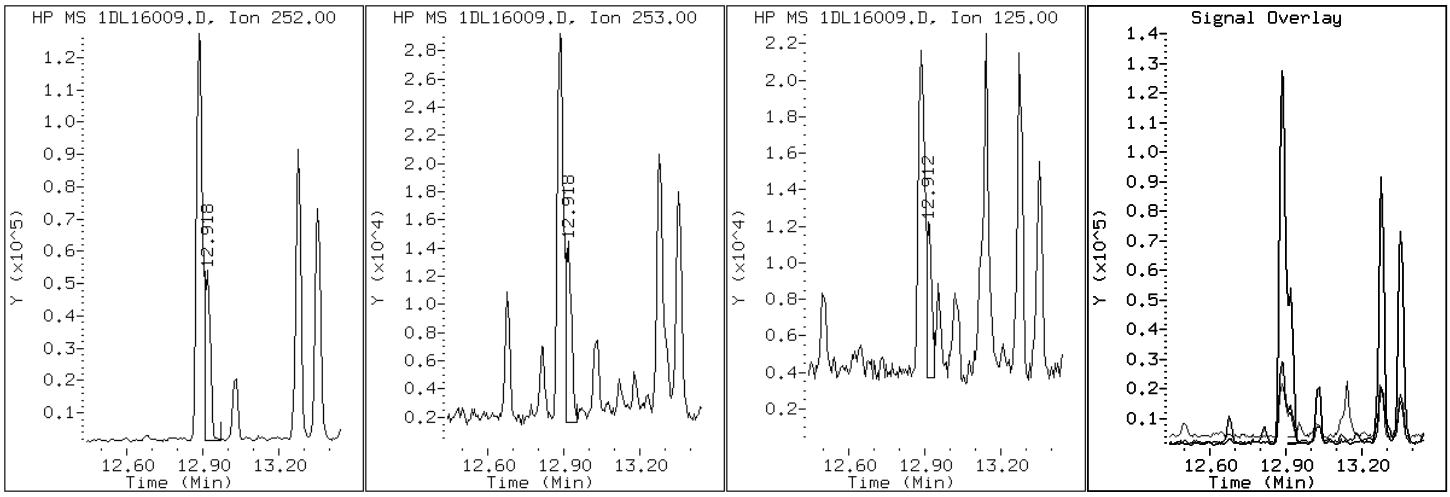
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

20 Benzo(k)fluoranthene



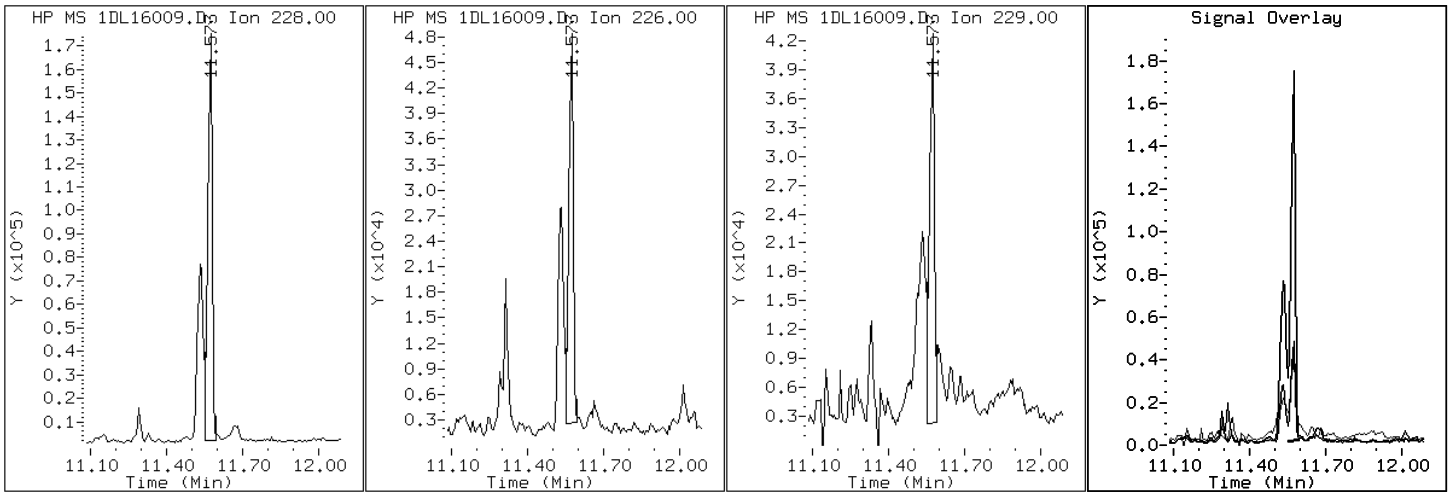
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

18 Chrysene



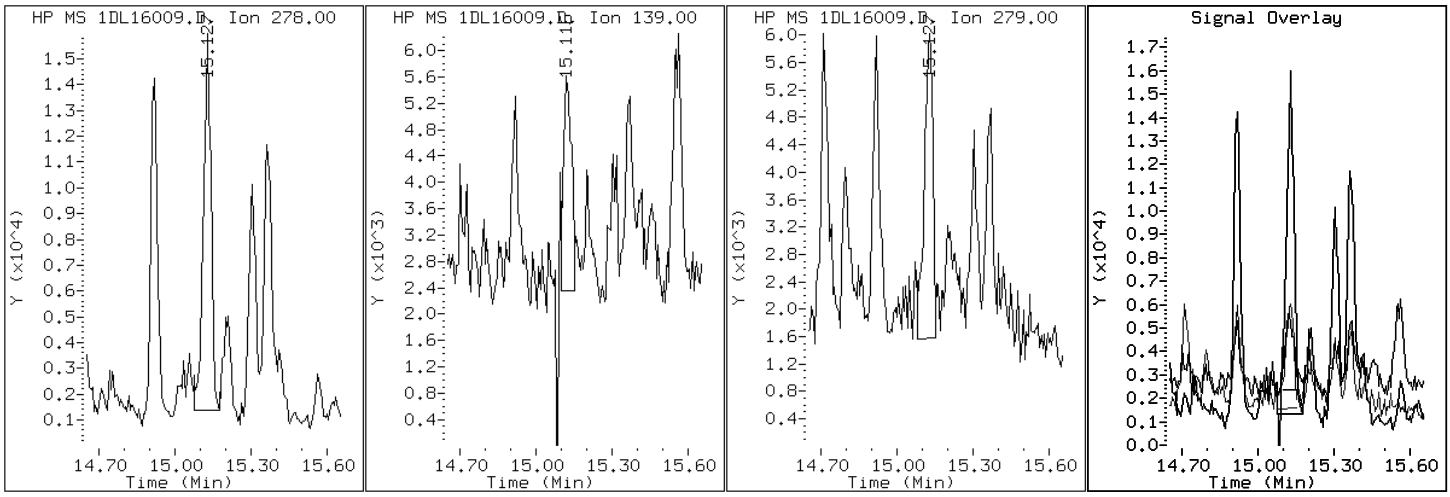
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS | Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A | Operator: SCC

24 Dibenzo(a,h)anthracene



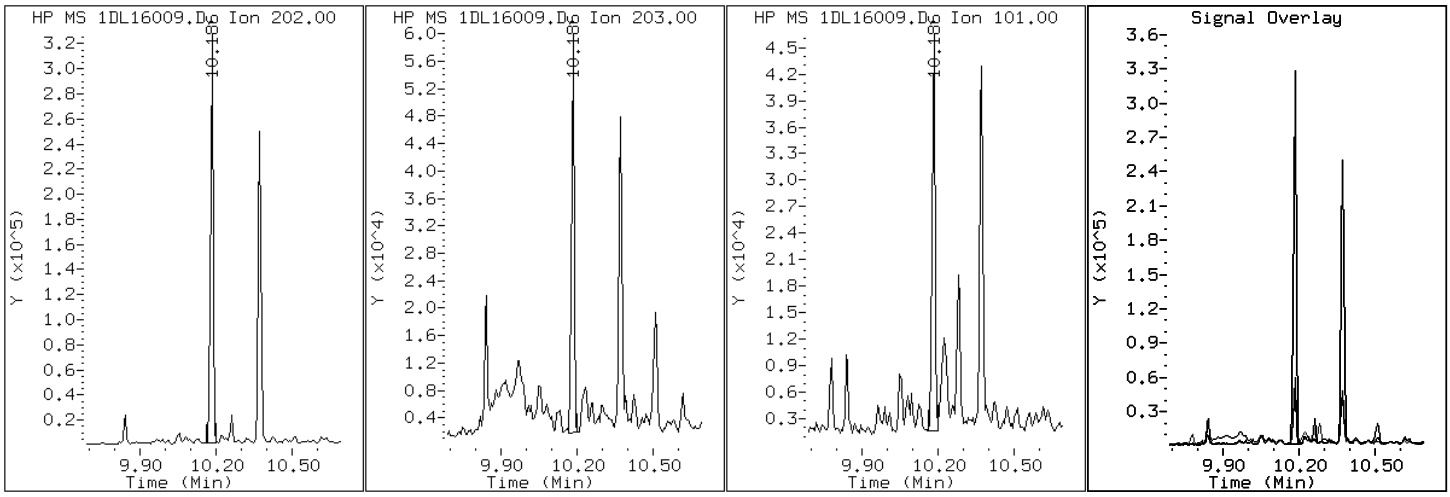
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

14 Fluoranthene



Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

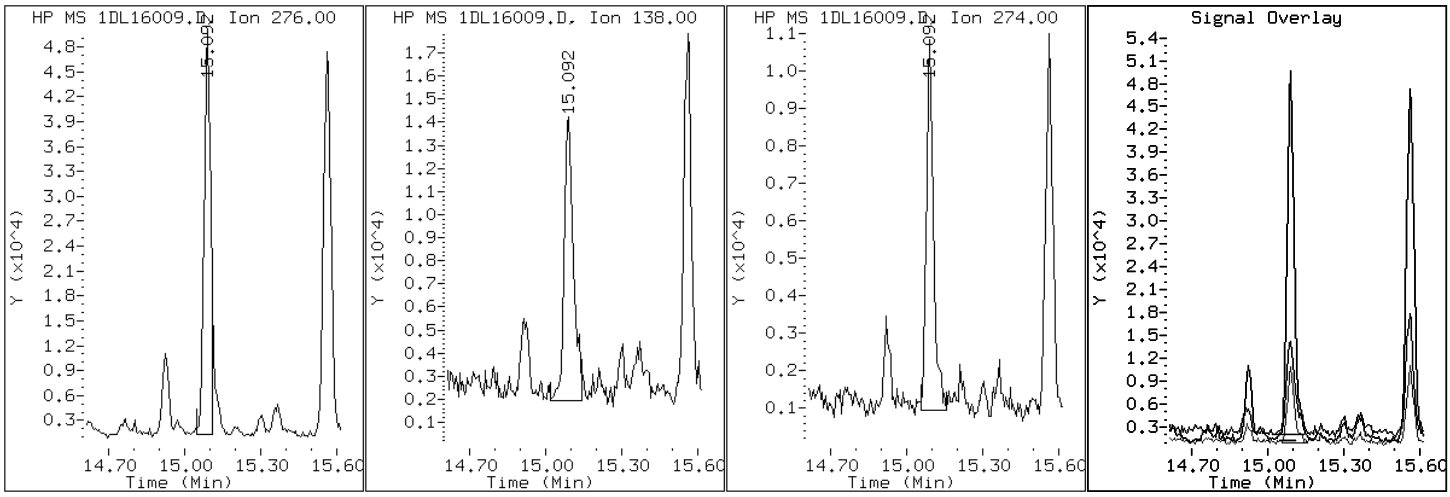
Client ID: HP0012B-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A

Operator: SCC

23 Indeno(1,2,3-cd)pyrene



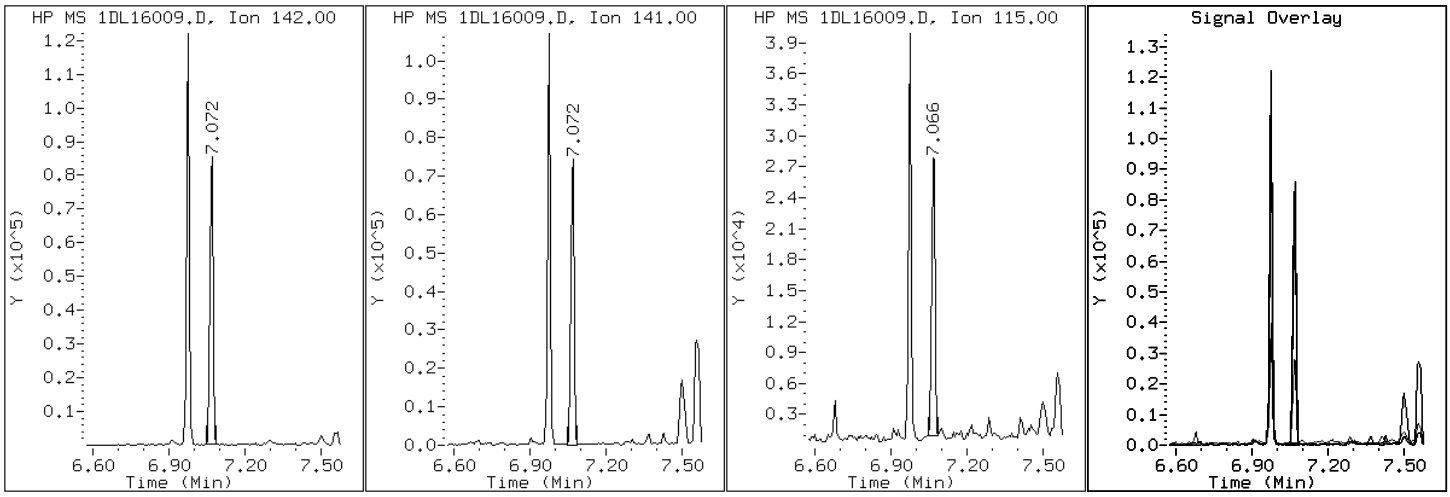
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

4 1-Methylnaphthalene



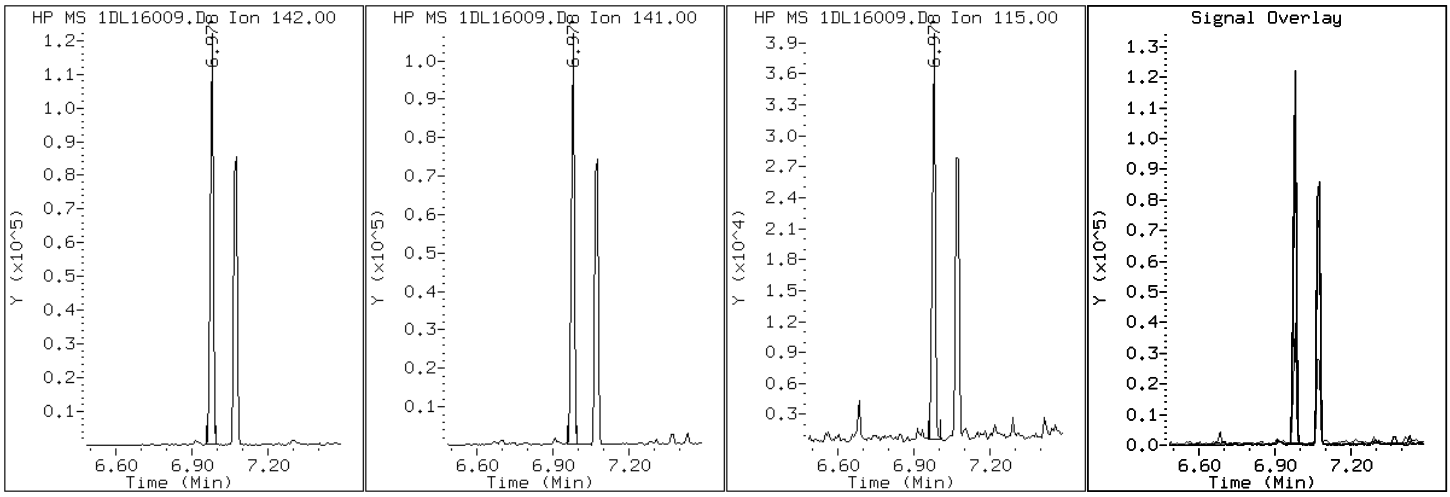
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

3 2-Methylnaphthalene



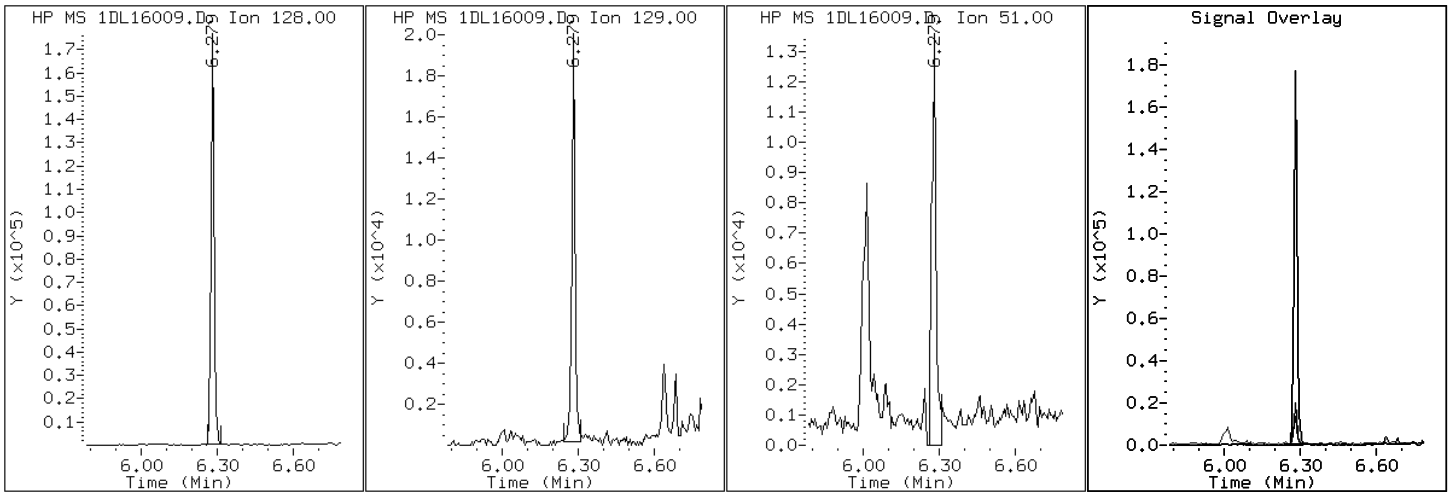
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

2 Naphthalene



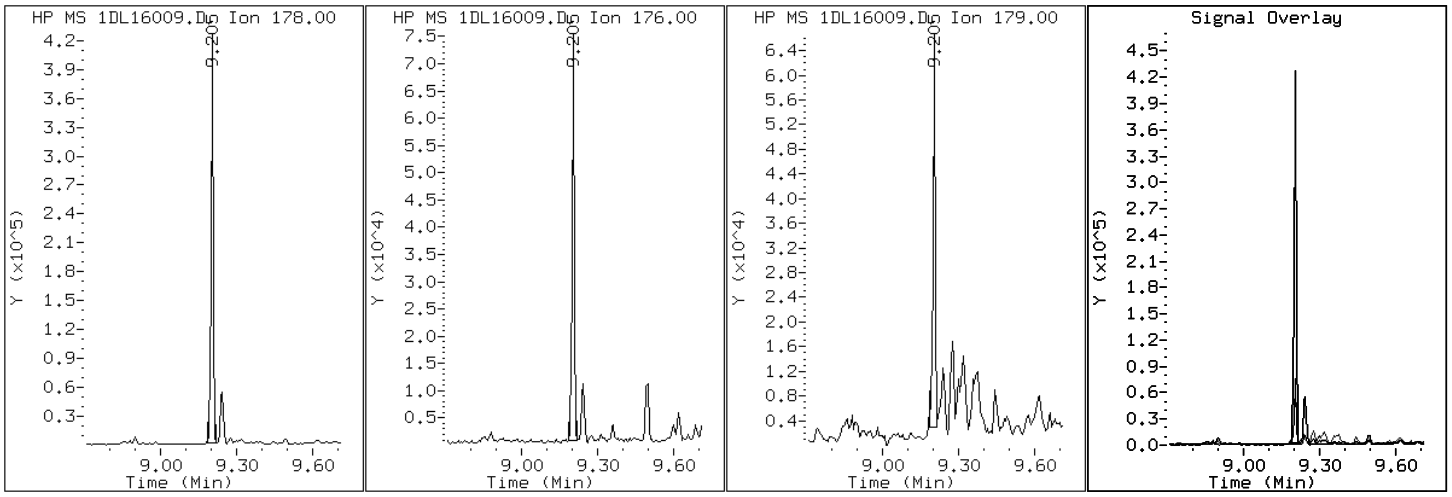
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

10 Phenanthrene



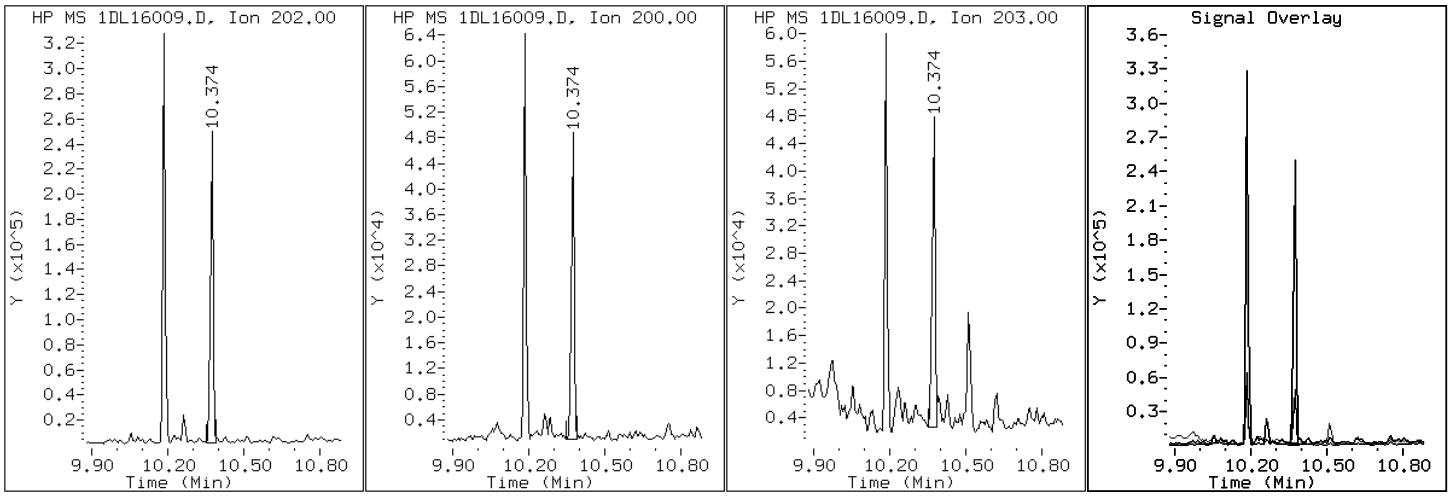
Data File: 1DL16009.D

Date: 16-DEC-2012 12:07

Client ID: HP0012B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-5-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16009.D
Inj. Date and Time: 16-DEC-2012 12:07
Instrument ID: BSMSD.i
Client ID: HP0012B-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/16/2012

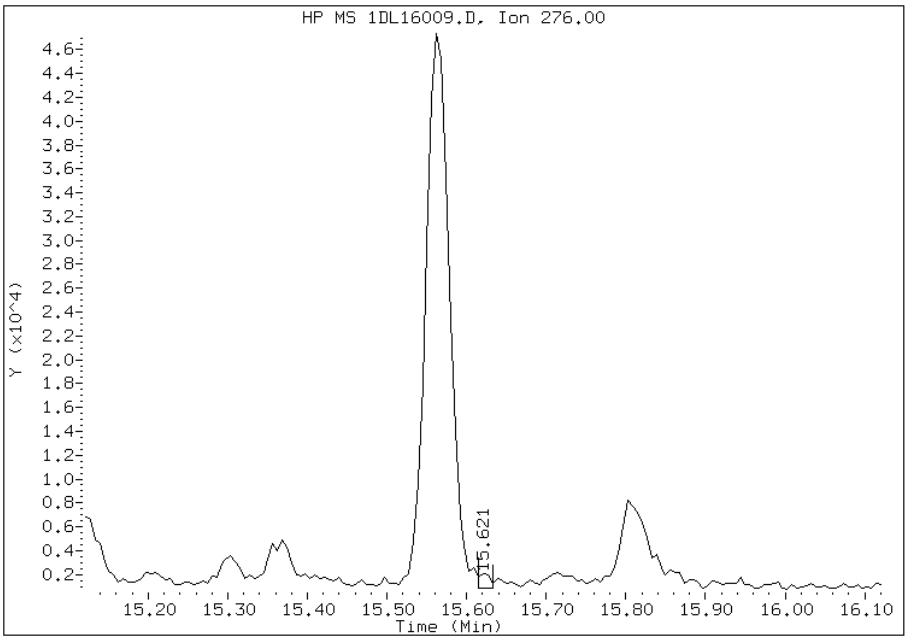
Processing Integration Results

RT: 15.62

Response: 1303

Amount: 0

Conc: 1



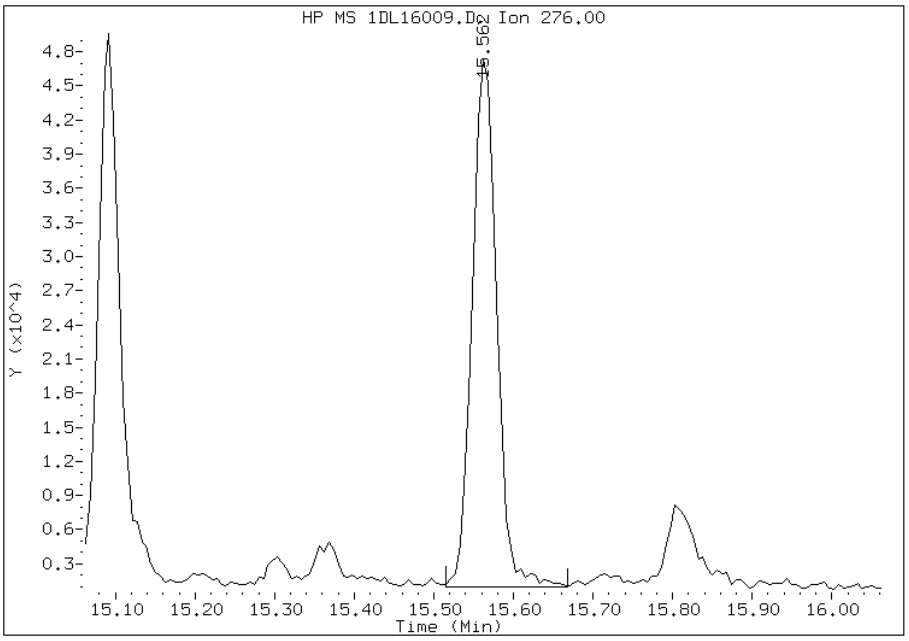

Manual Integration Results

RT: 15.56

Response: 98574

Amount: 1

Conc: 83




Manually Integrated By: cantins
Modification Date: 16-Dec-2012 13:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16009.D
Inj. Date and Time: 16-DEC-2012 12:07
Instrument ID: BSMSD.i
Client ID: HP0012B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/16/2012

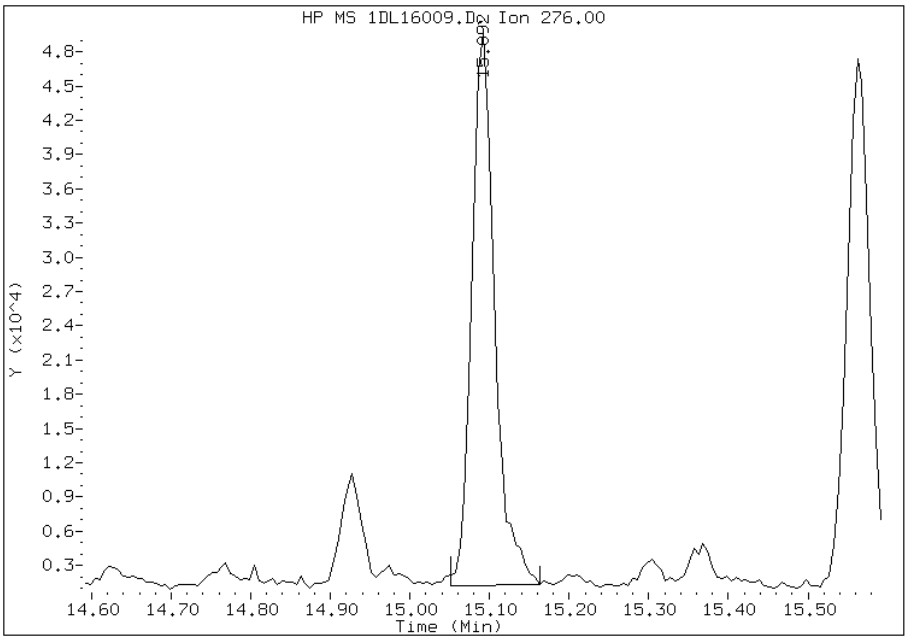
Processing Integration Results

RT: 15.09

Response: 96189

Amount: 1

Conc: 83



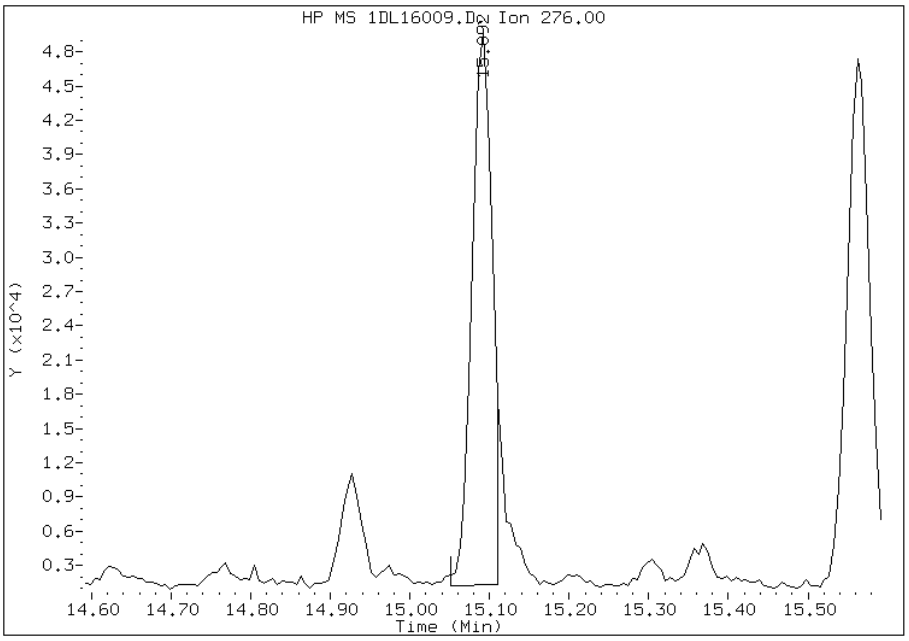

Manual Integration Results

RT: 15.09

Response: 85220

Amount: 1

Conc: 74




Manually Integrated By: cantins
Modification Date: 16-Dec-2012 13:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0025A-CS-SP | Lab Sample ID: 680-85534-13

Matrix: Solid | Lab File ID: 1AL13016.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:30

Extract. Method: 3546 | Date Extracted: 12/12/2012 16:13

Sample wt/vol: 15.05(g) | Date Analyzed: 12/13/2012 14:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132552 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 25 |
| 208-96-8 | Acenaphthylene | 12 | J | 51 | 6.3 |
| 120-12-7 | Anthracene | 15 | | 11 | 5.3 |
| 56-55-3 | Benzo[a]anthracene | 61 | | 10 | 4.9 |
| 50-32-8 | Benzo[a]pyrene | 56 | | 13 | 6.6 |
| 205-99-2 | Benzo[b]fluoranthene | 110 | | 15 | 7.7 |
| 191-24-2 | Benzo[g,h,i]perylene | 73 | | 25 | 5.6 |
| 207-08-9 | Benzo[k]fluoranthene | 35 | | 10 | 4.6 |
| 218-01-9 | Chrysene | 95 | | 11 | 5.7 |
| 53-70-3 | Dibenz(a,h)anthracene | 23 | J | 25 | 5.2 |
| 206-44-0 | Fluoranthene | 110 | | 25 | 5.1 |
| 86-73-7 | Fluorene | 7.1 | J | 25 | 5.2 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 51 | | 25 | 9.0 |
| 90-12-0 | 1-Methylnaphthalene | 47 | J | 51 | 5.6 |
| 91-57-6 | 2-Methylnaphthalene | 53 | | 51 | 9.0 |
| 91-20-3 | Naphthalene | 58 | | 51 | 5.6 |
| 85-01-8 | Phenanthrene | 97 | B | 10 | 4.9 |
| 129-00-0 | Pyrene | 130 | | 25 | 4.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\1AL13016.D
Lab Smp Id: 680-85534-A-13-A  Client Smp ID: FM0025A-CS-SP
Inj Date : 13-DEC-2012 14:45
Operator : SCC  Inst ID: BSMA5973.i
Smp Info : 680-85534-a-13-a
Misc Info : 680-85534-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\a-bFASTPAHi-m.m
Meth Date : 17-Dec-2012 11:07 cantins  Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20  Cal File: 1AK26009.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.050 | Weight Extracted |
| M | 21.215 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.757 | 2.752 | (1.000) | 601095 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.799 | 3.794 | (1.000) | 395702 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.803 | 4.798 | (1.000) | 678385 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.086 | 5.081 | (1.059) | 85342 | 8.48442 | 715.5563 |
| * 18 Chrysene-d12 | 240 | 6.892 | 6.882 | (1.000) | 451732 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.019 | 7.998 | (1.000) | 524882 | 40.0000 | |
| 2 Naphthalene | 128 | 2.768 | 2.763 | (1.004) | 9897 | 0.68380 | 57.6699 |
| 3 2-Methylnaphthalene | 141 | 3.174 | 3.169 | (1.151) | 5174 | 0.62828 | 52.9877 |
| 4 1-Methylnaphthalene | 142 | 3.232 | 3.228 | (1.172) | 4829 | 0.56103 | 47.3159 |
| 5 Acenaphthylene | 152 | 3.713 | 3.708 | (0.978) | 2293 | 0.13762 | 11.6068 |
| 9 Fluorene | 166 | 4.151 | 4.141 | (1.093) | 963 | 0.08478 | 7.1499(Q) |
| 11 Phenanthrene | 178 | 4.819 | 4.814 | (1.003) | 20060 | 1.15116 | 97.0862(M) |
| 12 Anthracene | 178 | 4.856 | 4.846 | (1.011) | 2994 | 0.17480 | 14.7425 |
| 13 Carbazole | 167 | 5.001 | 4.990 | (1.041) | 2864 | 0.19282 | 16.2623 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Fluoranthene | 202 | 5.716 | 5.712 | (1.190) | 23100 | 1.26046 | 106.3039 |
| 16 Pyrene | 202 | 5.898 | 5.888 | (0.856) | 19759 | 1.48448 | 125.1976 |
| 17 Benzo(a)anthracene | 228 | 6.881 | 6.866 | (0.998) | 8786 | 0.72683 | 61.2995 |
| 19 Chrysene | 228 | 6.908 | 6.898 | (1.002) | 13242 | 1.12784 | 95.1194 |
| 20 Benzo(b)fluoranthene | 252 | 7.720 | 7.704 | (0.963) | 17492 | 1.25806 | 106.1019(M) |
| 21 Benzo(k)fluoranthene | 252 | 7.730 | 7.726 | (0.964) | 6260 | 0.41521 | 35.0180(QMH) |
| 22 Benzo(a)pyrene | 252 | 7.960 | 7.945 | (0.993) | 8828 | 0.66480 | 56.0679 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.980 | 8.960 | (1.120) | 7399 | 0.60612 | 51.1188(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 9.007 | 8.981 | (1.123) | 3040 | 0.27730 | 23.3870(M) |
| 26 Benzo(g,h,i)perylene | 276 | 9.285 | 9.253 | (1.158) | 10505 | 0.86081 | 72.5987(M) |

## QC Flag Legend

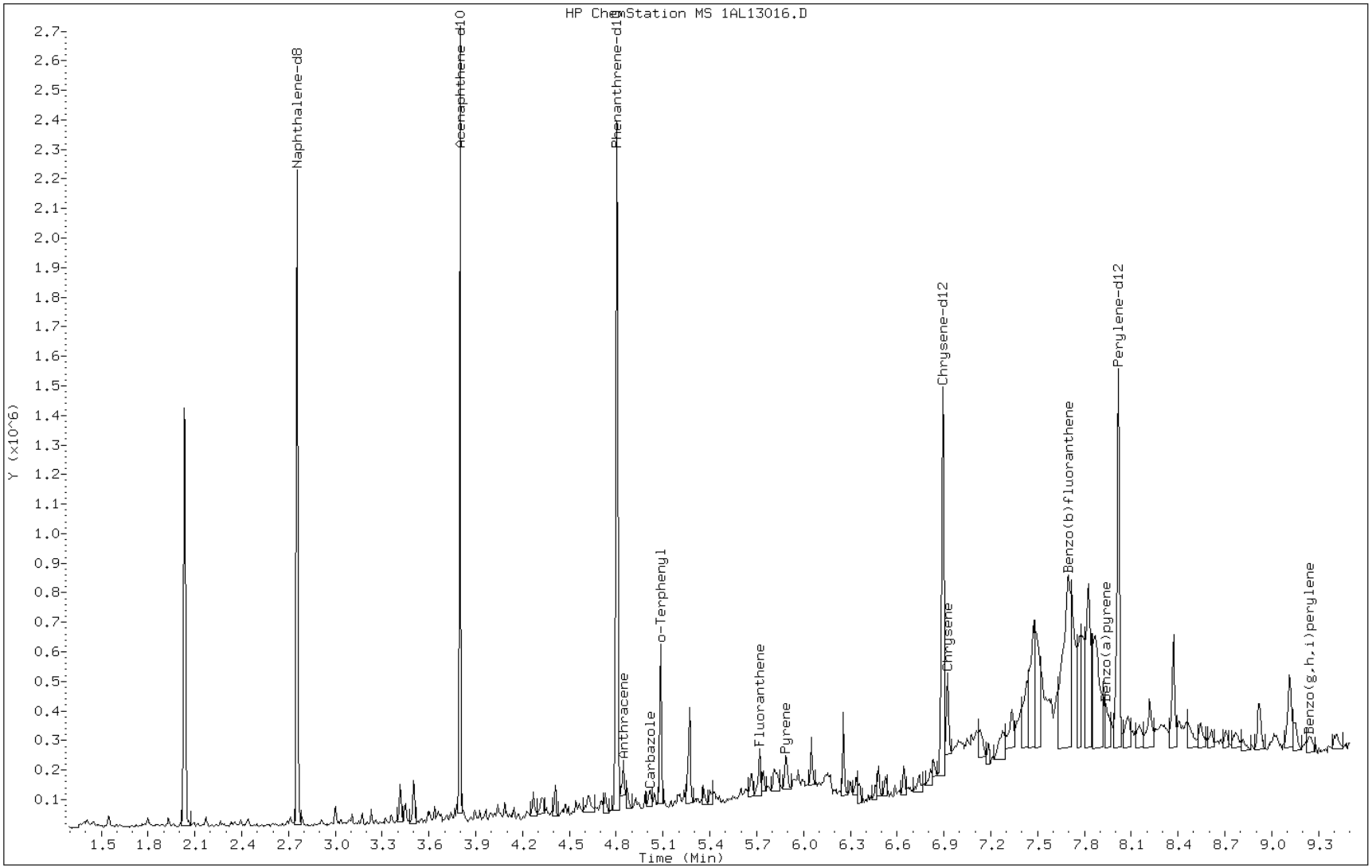
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC



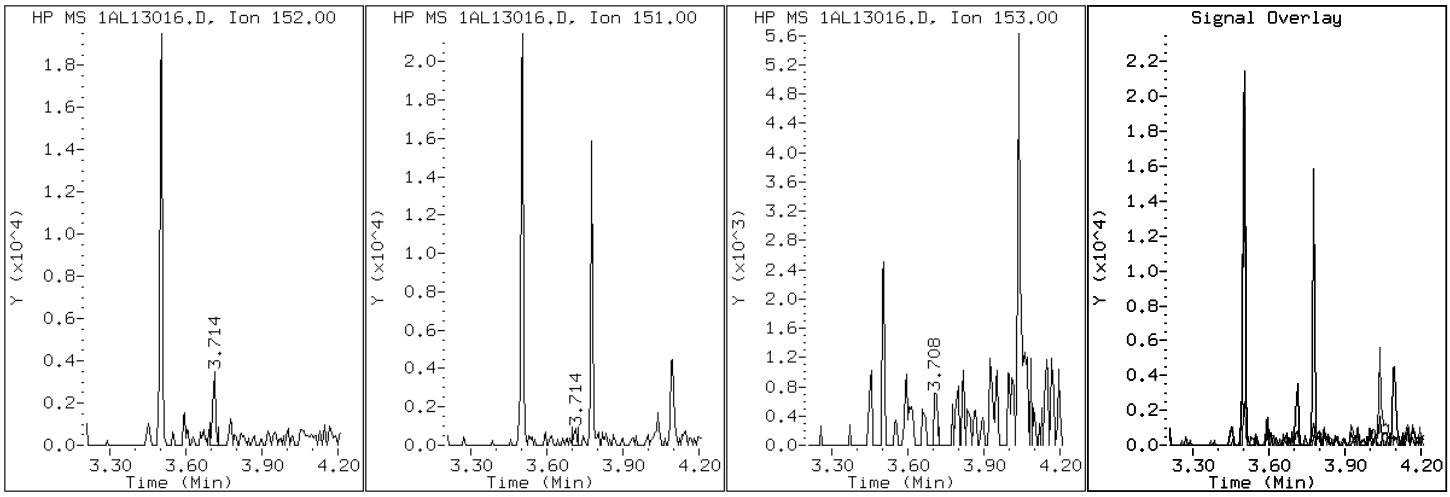
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

5 Acenaphthylene



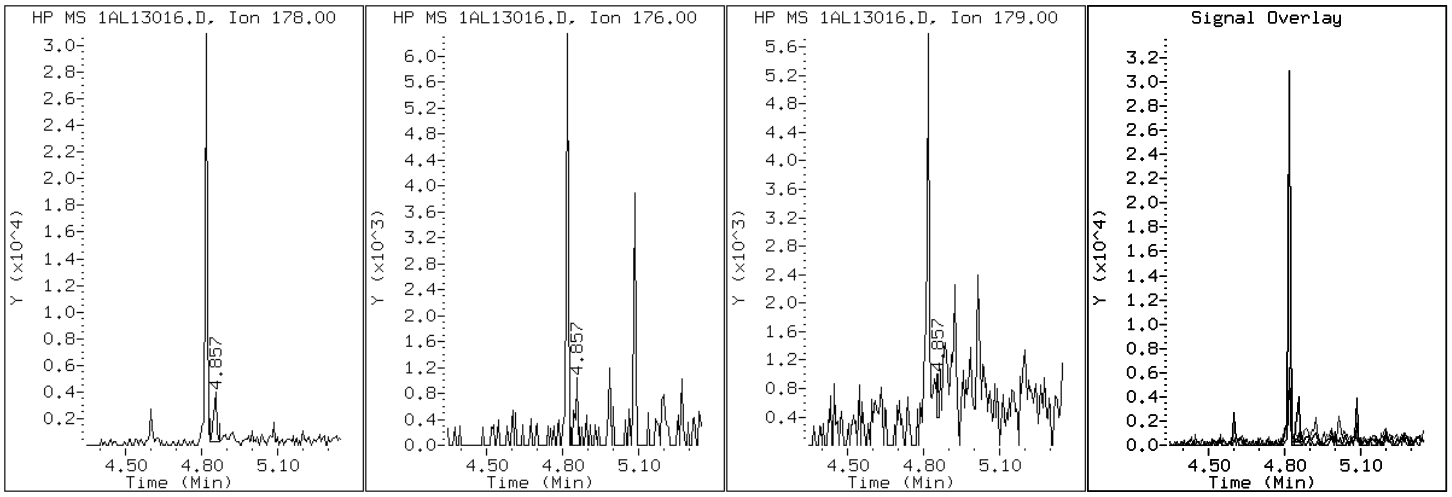
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a Operator: SCC

12 Anthracene



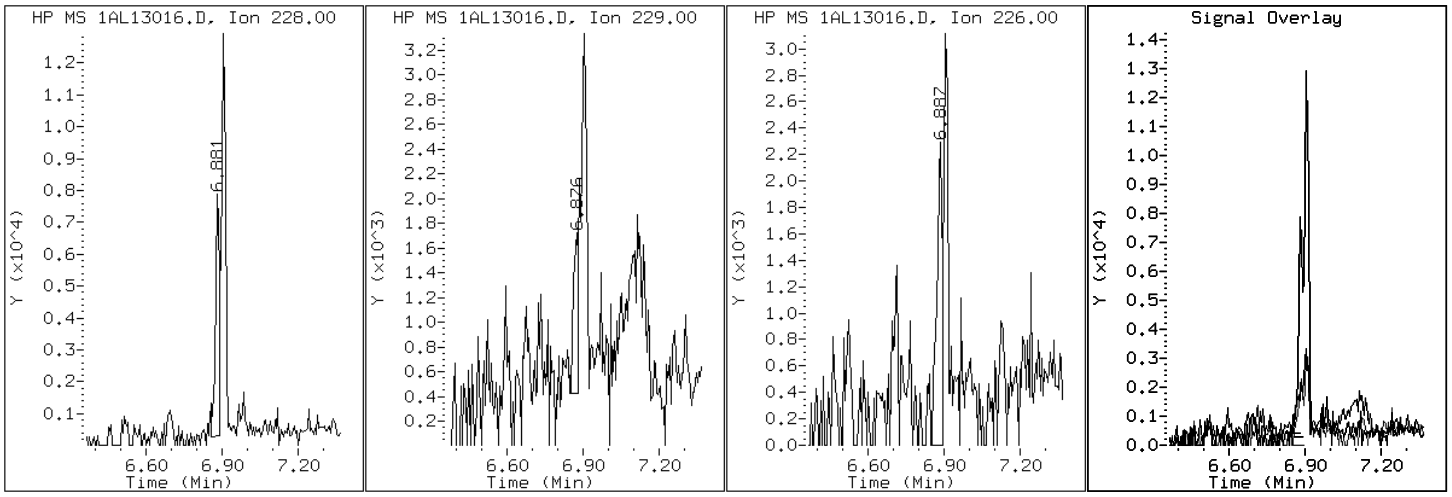
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a Operator: SCC

17 Benzo(a)anthracene



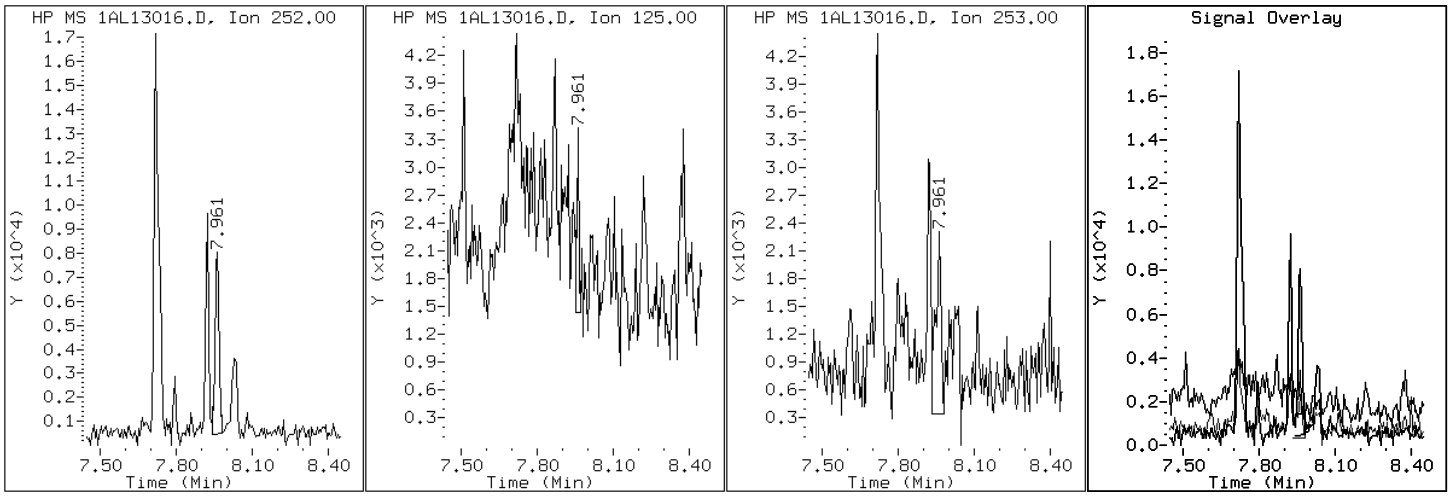
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a Operator: SCC

22 Benzo(a)pyrene



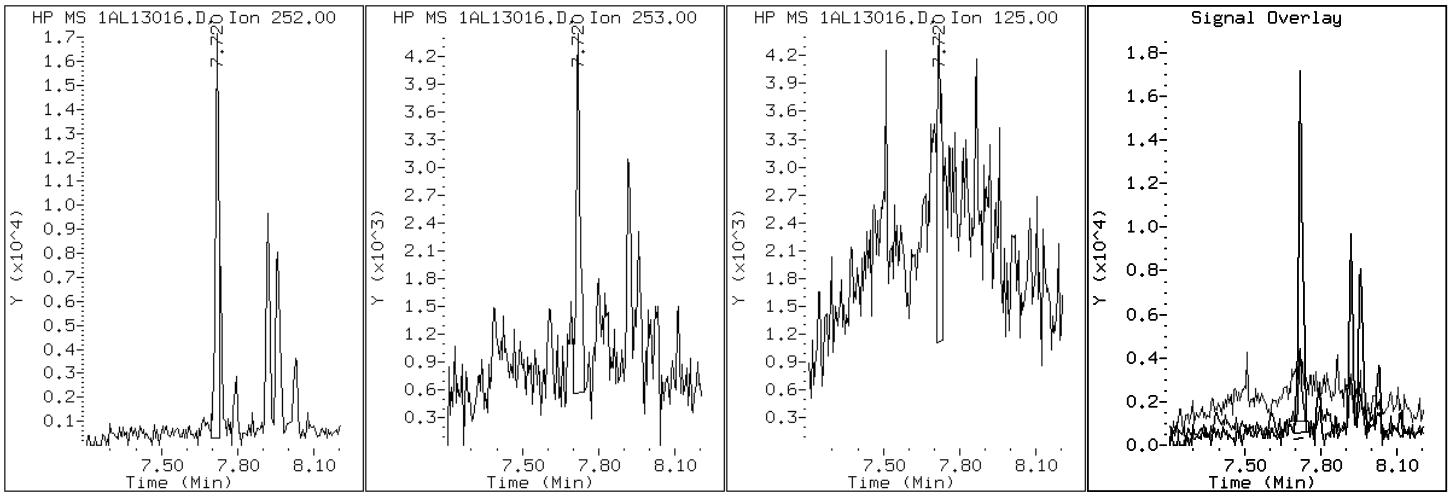
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



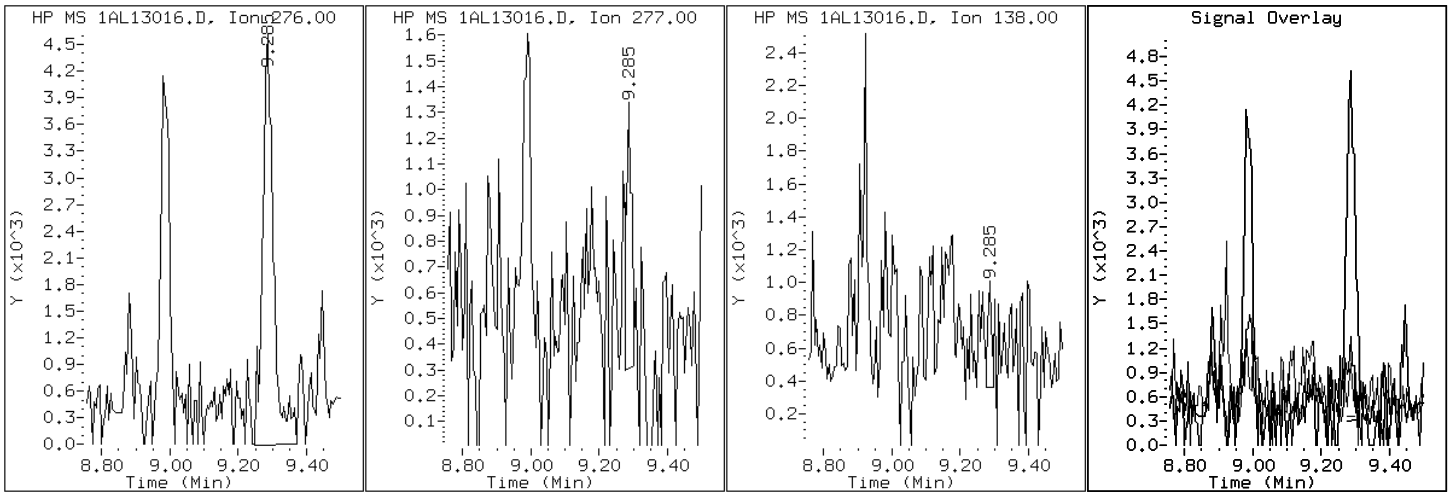
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

26 Benzo(g,h,i)perylene



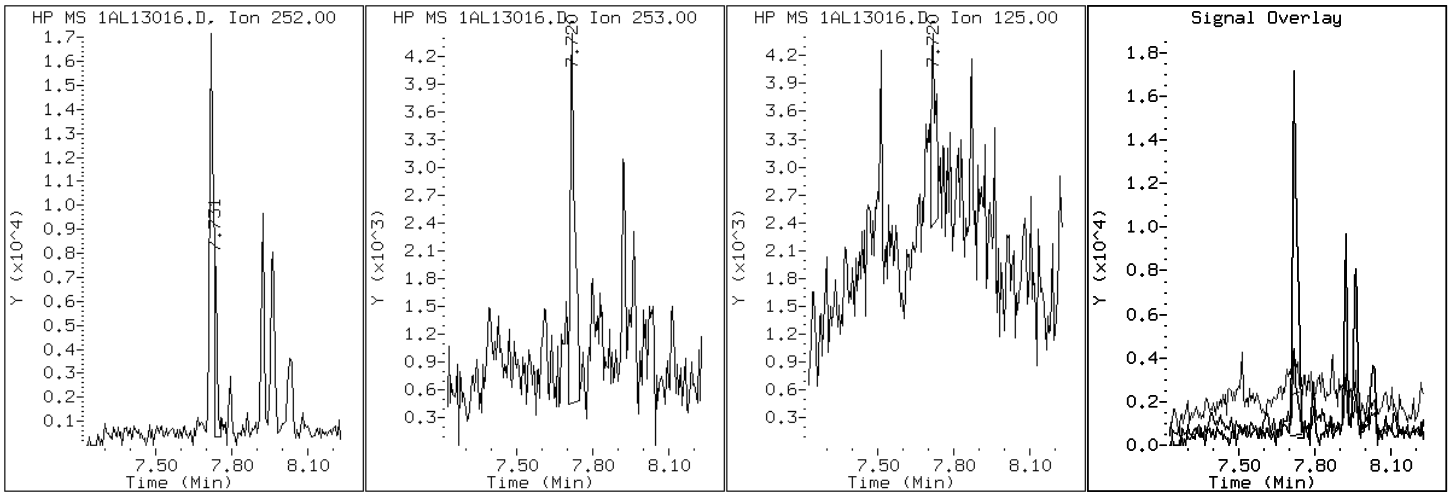
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

21 Benzo(k)fluoranthene



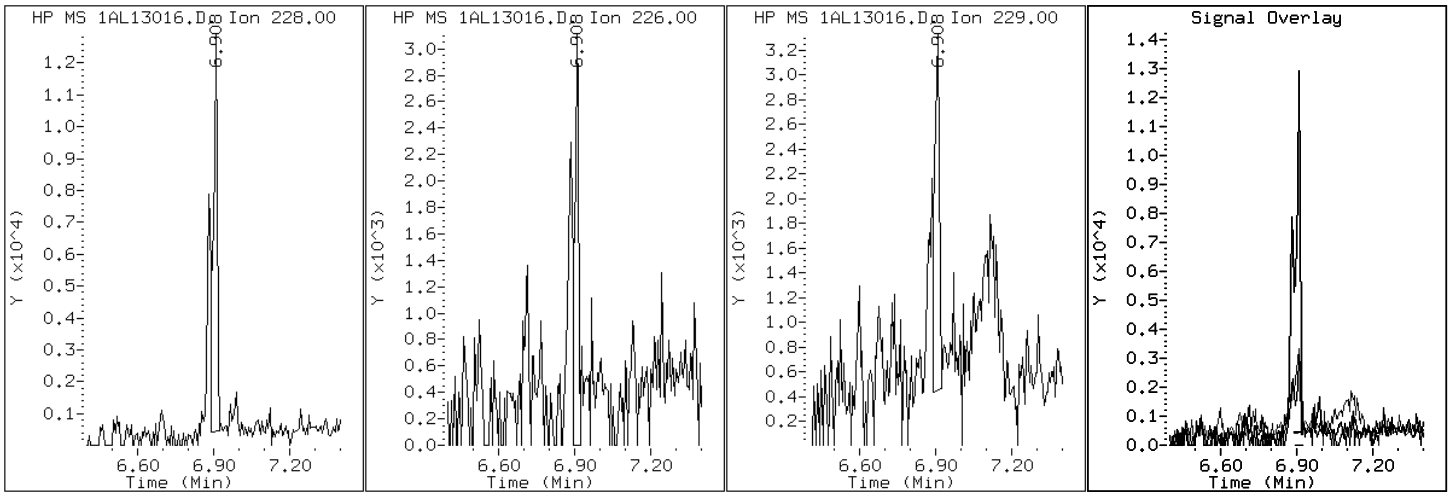
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

19 Chrysene



Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

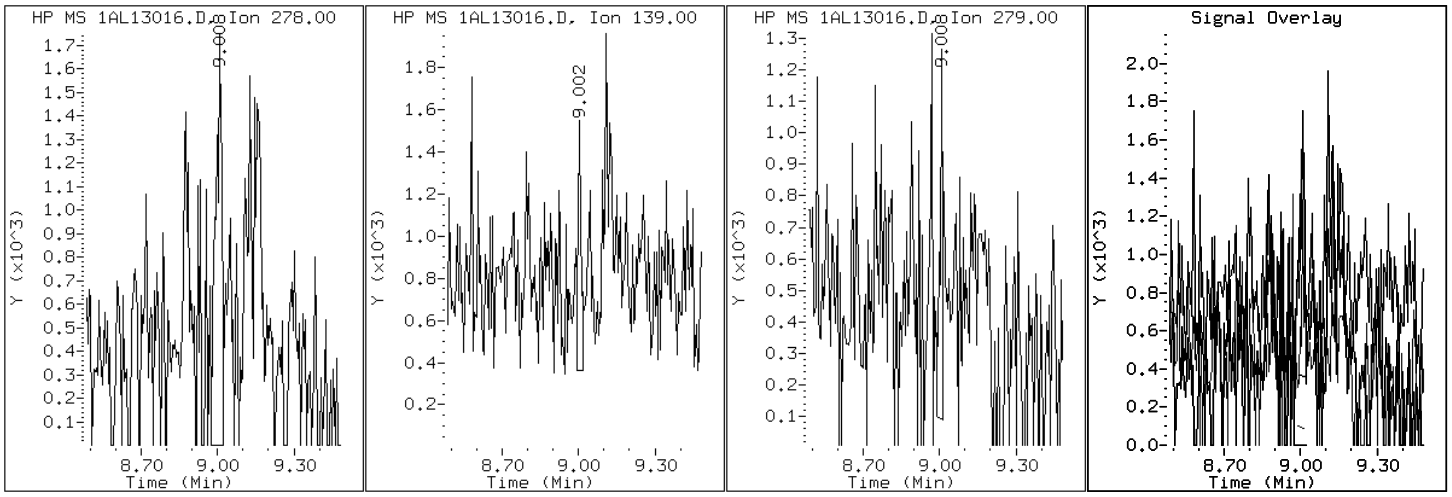
Client ID: FM0025A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

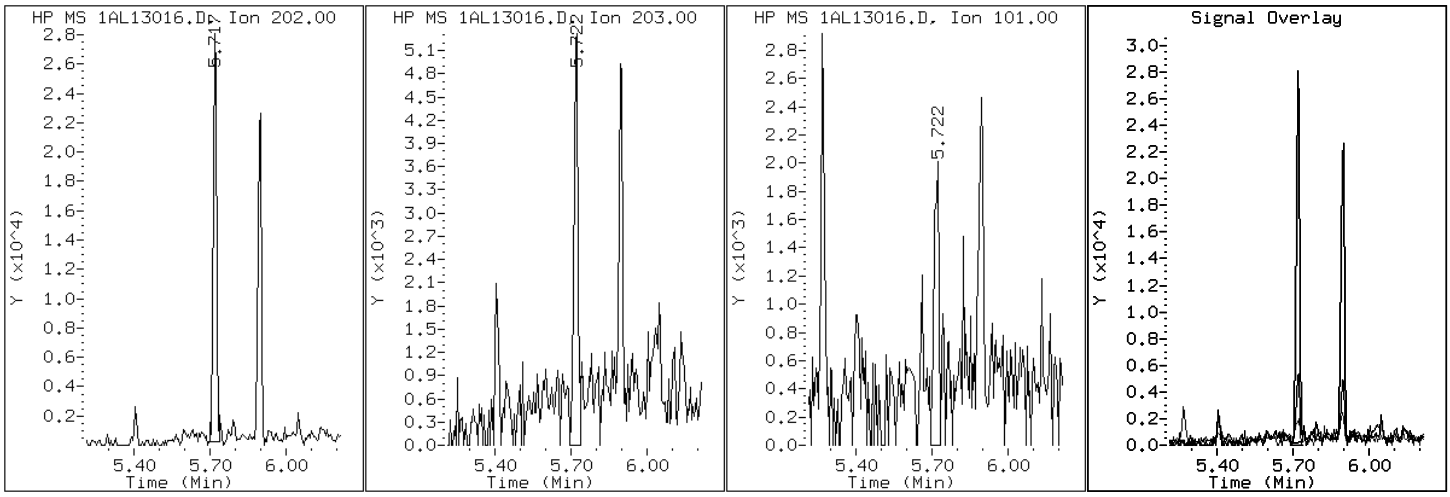
Client ID: FM0025A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a

Operator: SCC

15 Fluoranthene



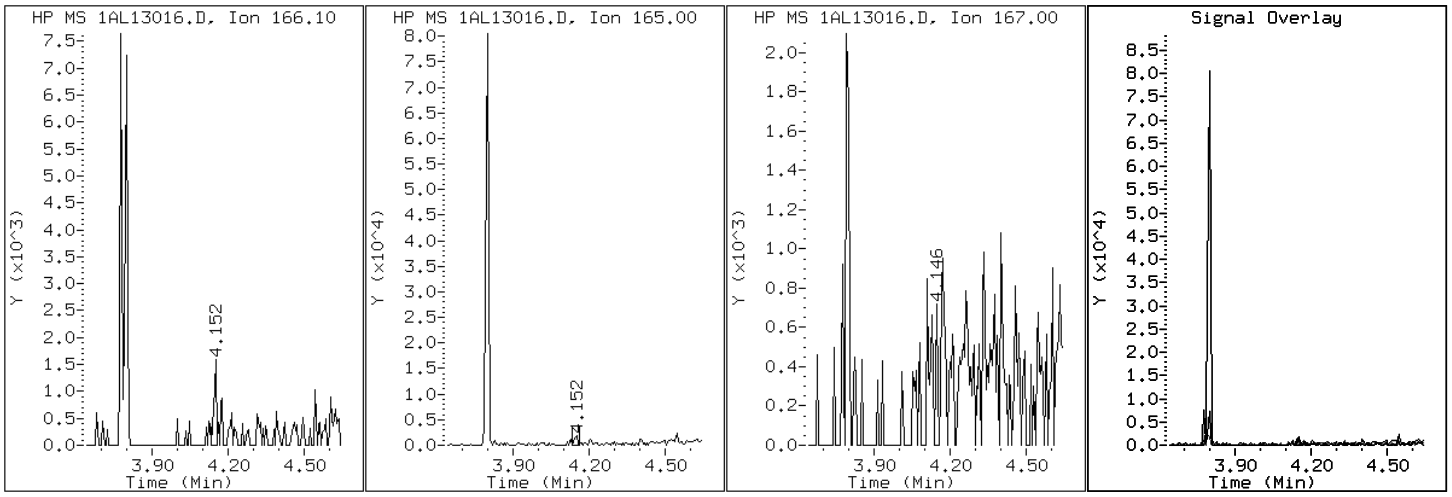
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

9 Fluorene



Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

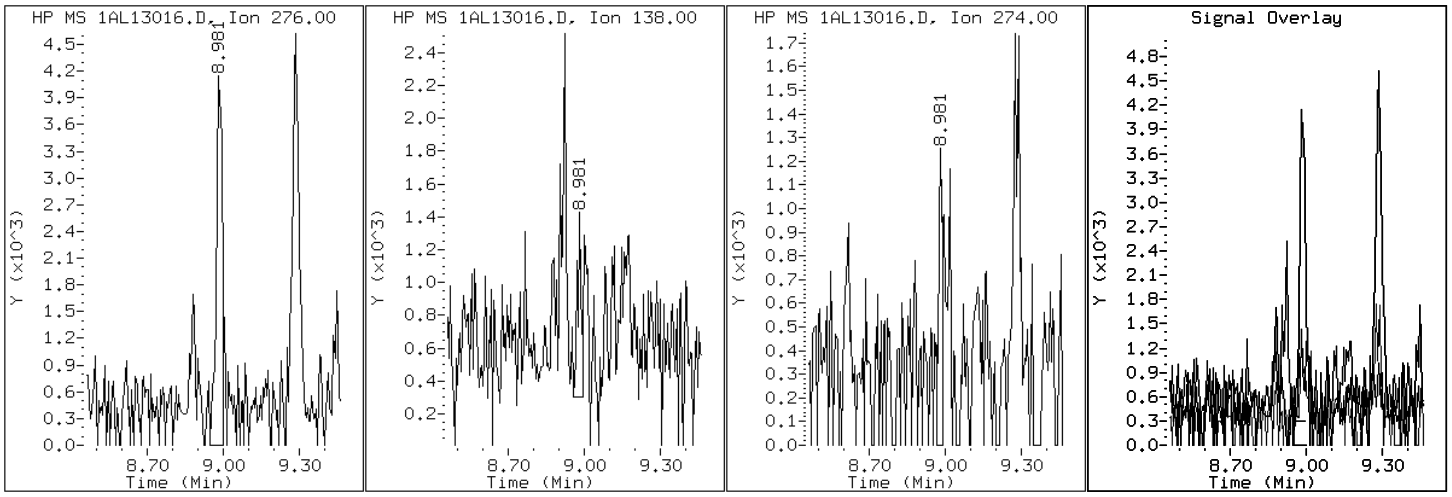
Client ID: FM0025A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



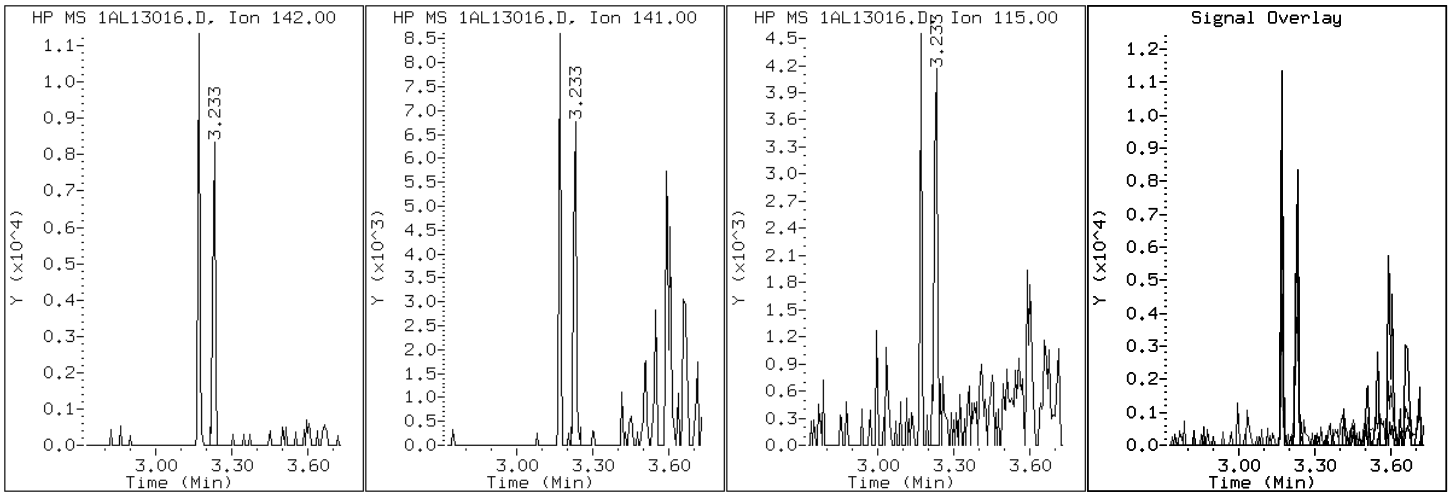
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

4 1-Methylnaphthalene



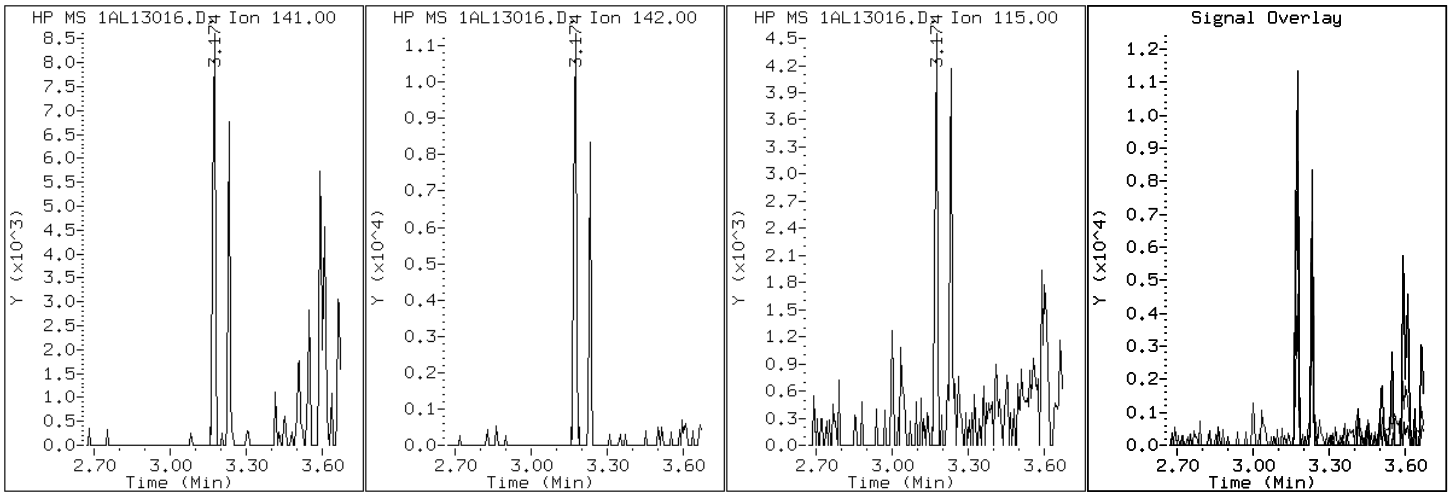
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

3 2-Methylnaphthalene



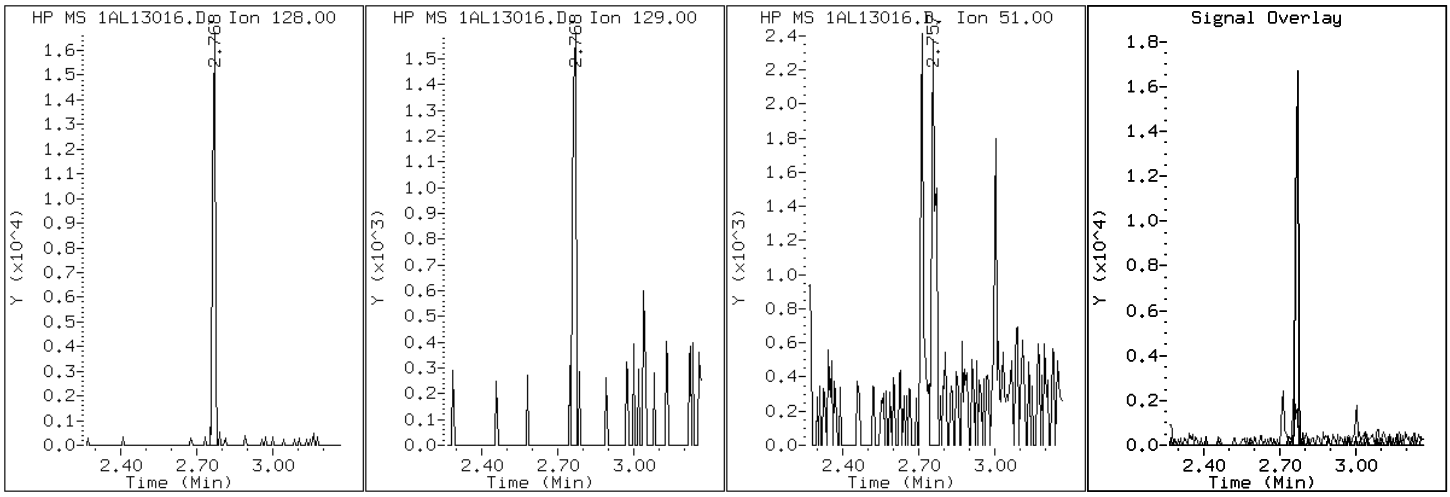
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP  Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a  Operator: SCC

2 Naphthalene



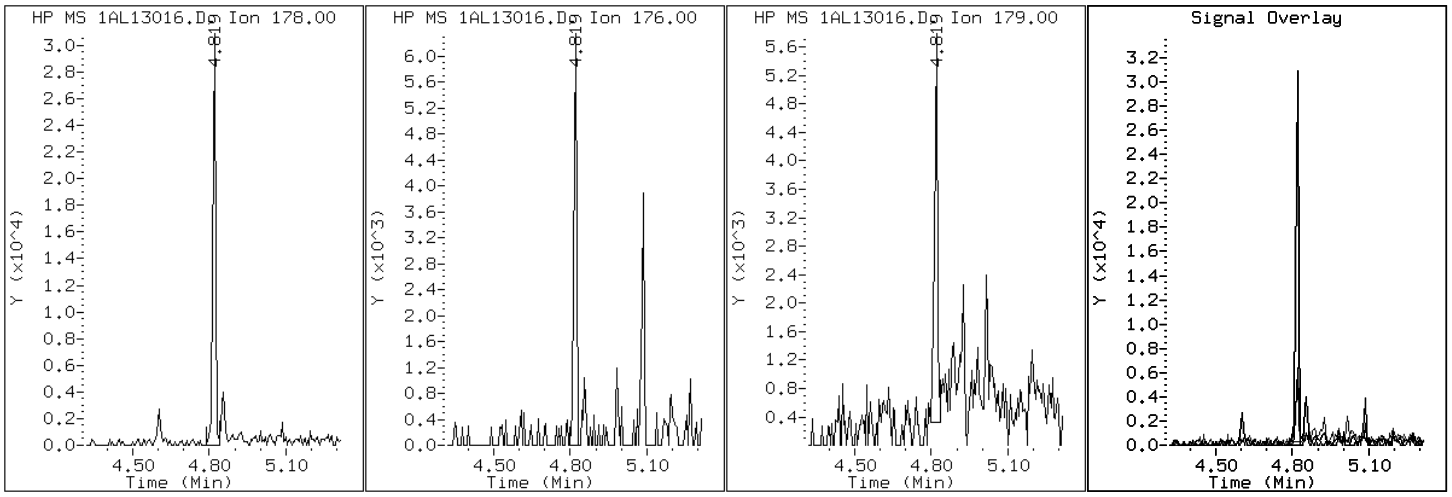
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a Operator: SCC

11 Phenanthrene



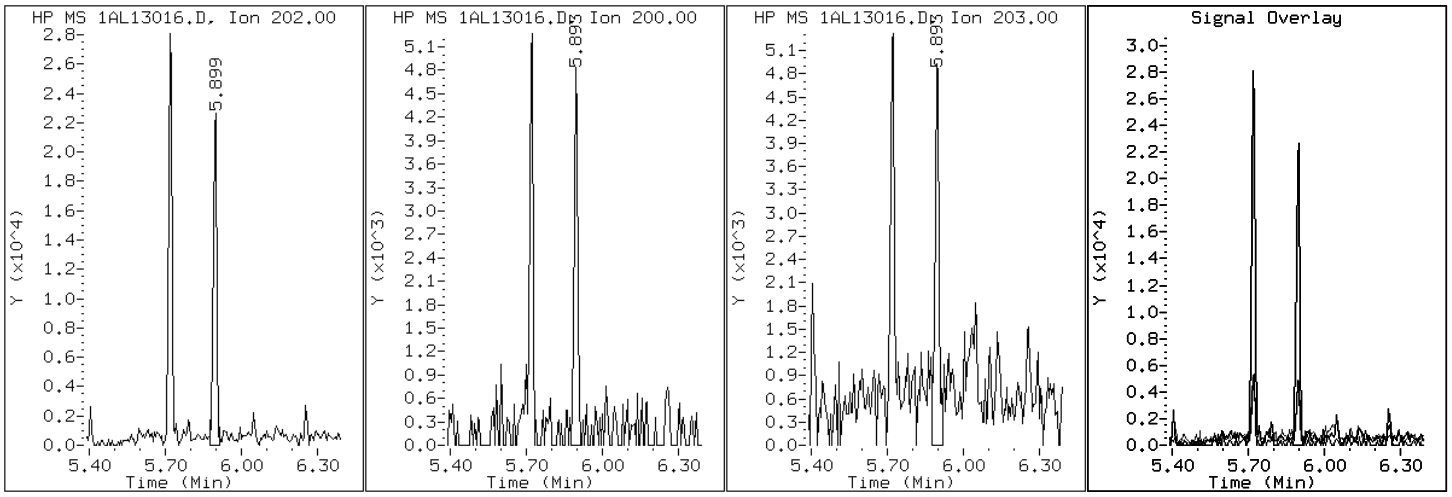
Data File: 1AL13016.D

Date: 13-DEC-2012 14:45

Client ID: FM0025A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-85534-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AL13016.D
Inj. Date and Time: 13-DEC-2012 14:45
Instrument ID: BSMA5973.i
Client ID: FM0025A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 12/17/2012

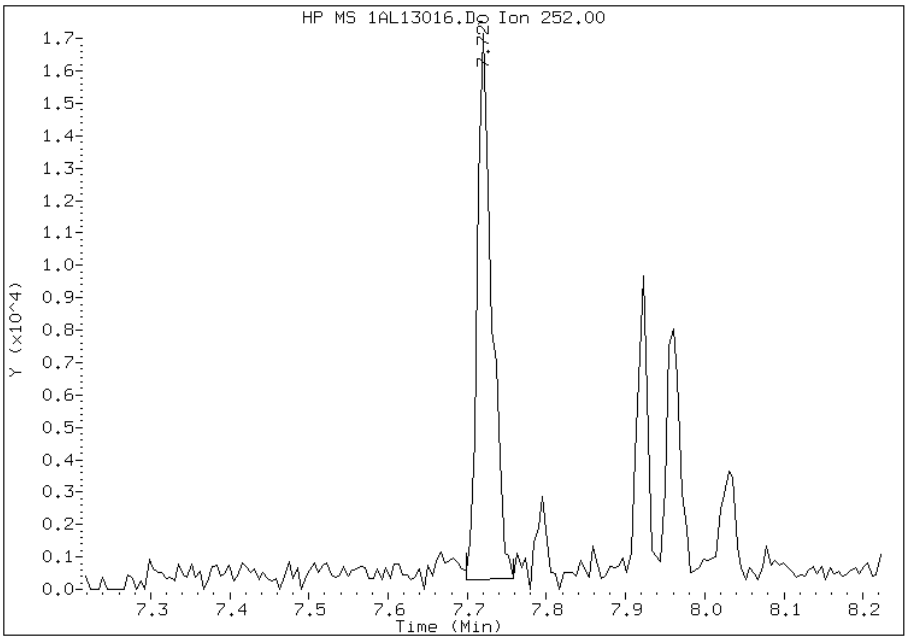
Processing Integration Results

RT: 7.72

Response: 21310

Amount: 2

Conc: 129



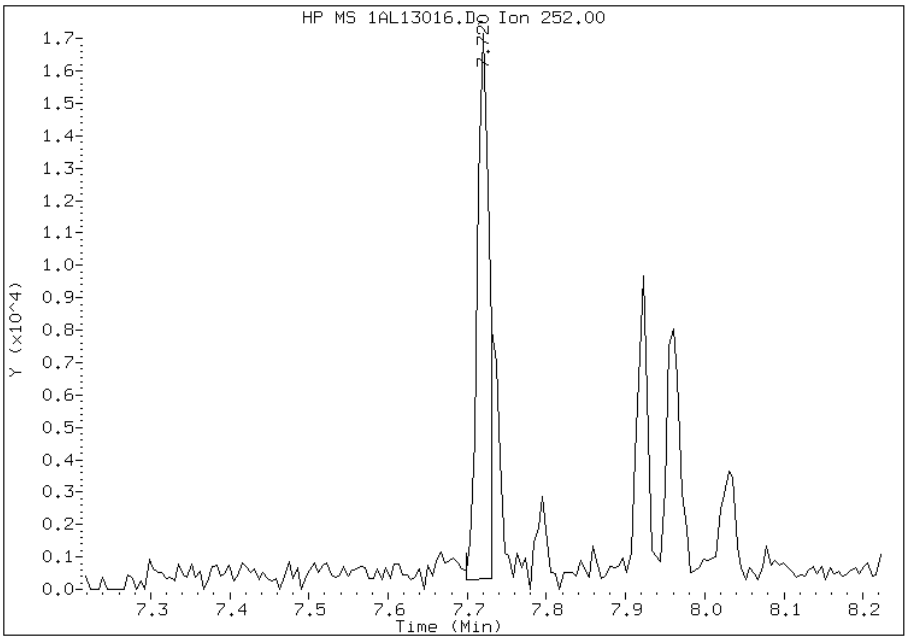

Manual Integration Results

RT: 7.72

Response: 17492

Amount: 1

Conc: 106




Manually Integrated By: cantins
Modification Date: 17-Dec-2012 14:04
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AL13016.D
Inj. Date and Time: 13-DEC-2012 14:45
Instrument ID: BSMA5973.i
Client ID: FM0025A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/17/2012

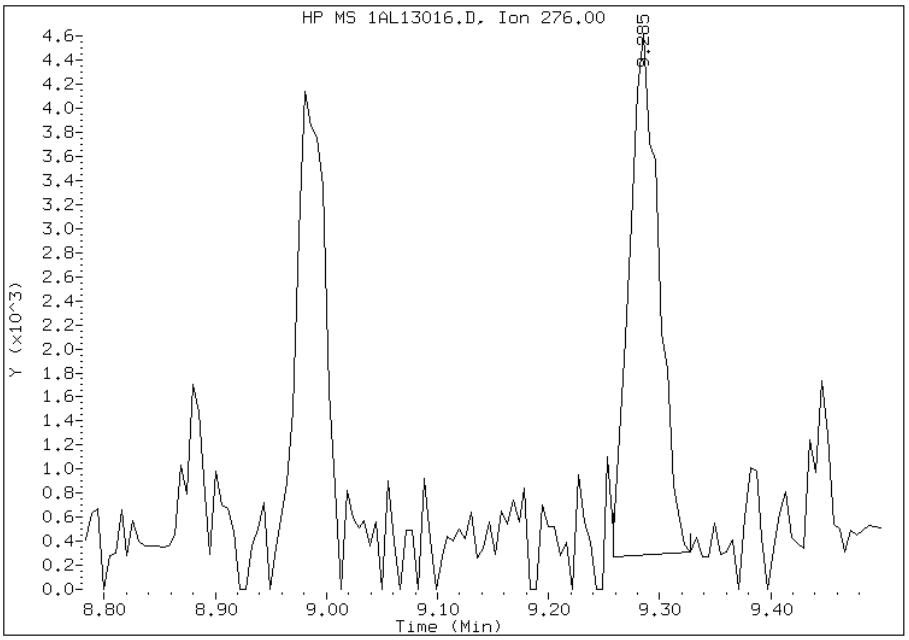
Processing Integration Results

RT: 9.29

Response: 7997

Amount: 1

Conc: 55



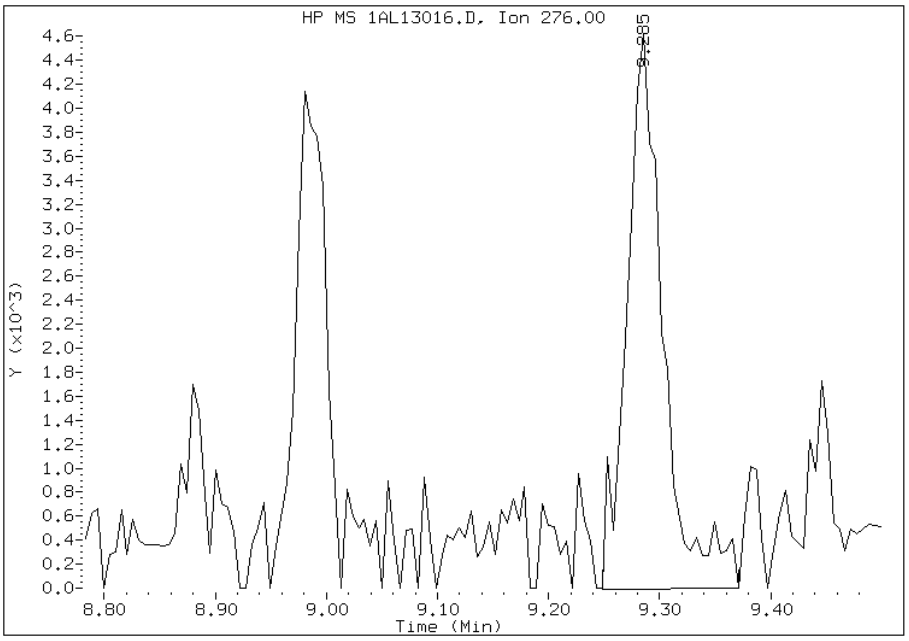

Manual Integration Results

RT: 9.29

Response: 10505

Amount: 1

Conc: 73




Manually Integrated By: cantins
Modification Date: 17-Dec-2012 14:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AL13016.D
Inj. Date and Time: 13-DEC-2012 14:45
Instrument ID: BSMA5973.i
Client ID: FM0025A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 12/17/2012

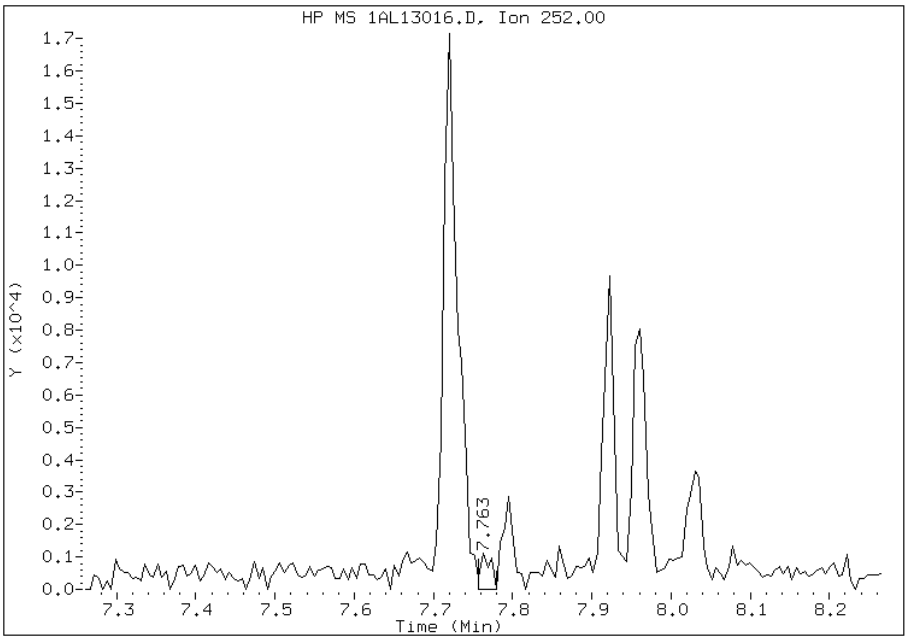
Processing Integration Results

RT: 7.76

Response: 1006

Amount: 0

Conc: 6



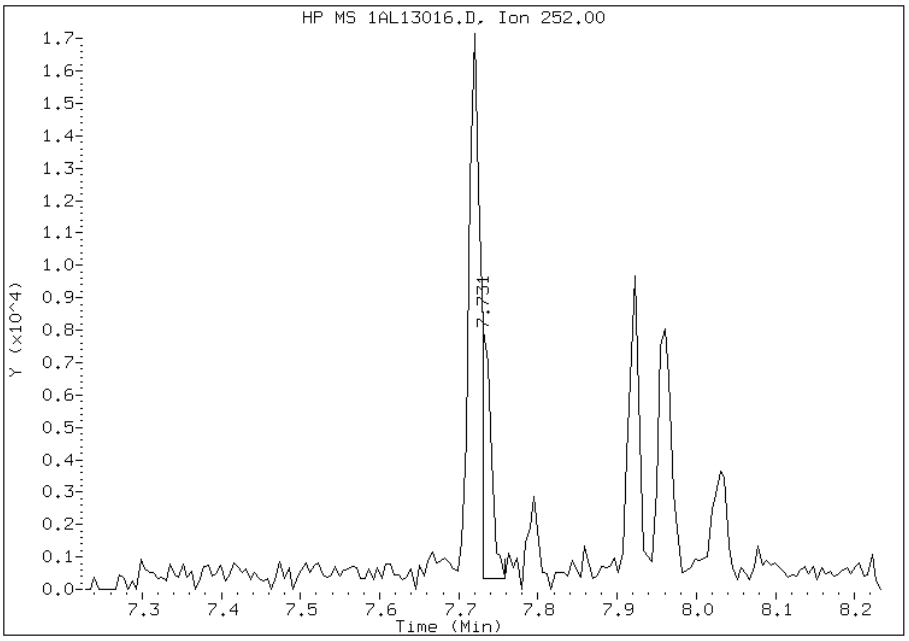

Manual Integration Results

RT: 7.73

Response: 6260

Amount: 0

Conc: 35




Manually Integrated By: cantins
Modification Date: 17-Dec-2012 14:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AL13016.D
Inj. Date and Time: 13-DEC-2012 14:45
Instrument ID: BSMA5973.i
Client ID: FM0025A-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/17/2012

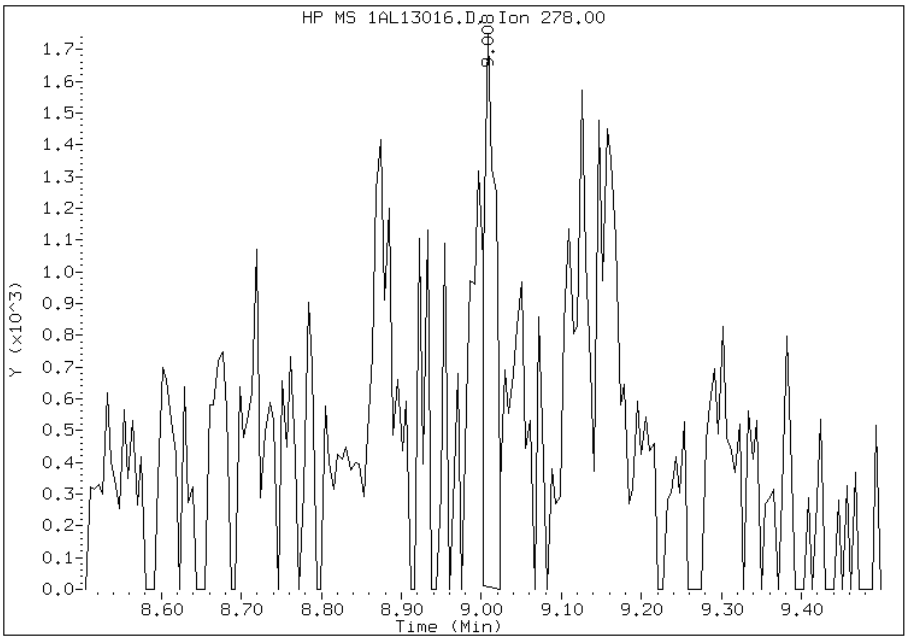
Processing Integration Results

RT: 9.01

Response: 1810

Amount: 0

Conc: 14



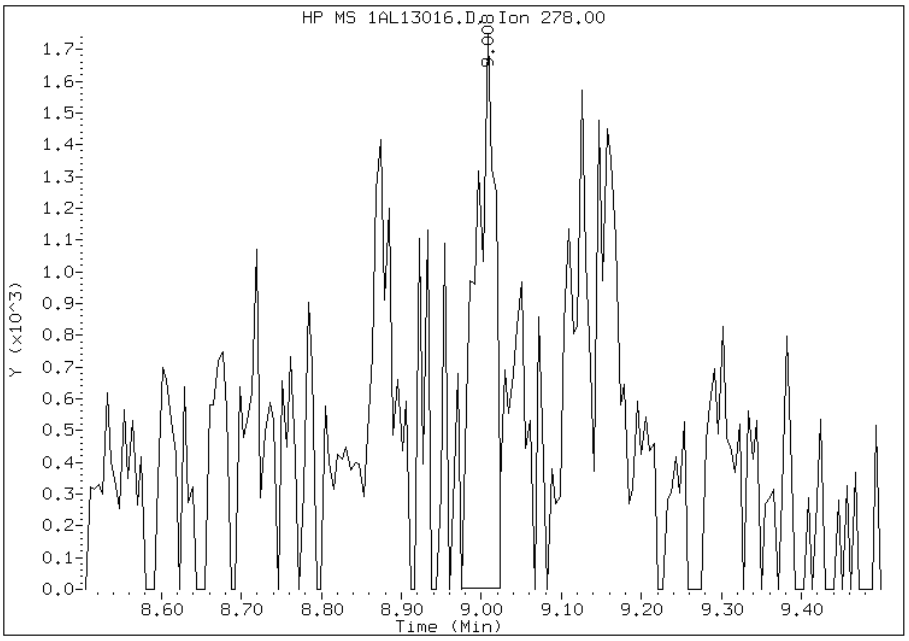

Manual Integration Results

RT: 9.01

Response: 3040

Amount: 0

Conc: 23




Manually Integrated By: cantins
Modification Date: 17-Dec-2012 14:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AL13016.D
Inj. Date and Time: 13-DEC-2012 14:45
Instrument ID: BSMA5973.i
Client ID: FM0025A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/17/2012

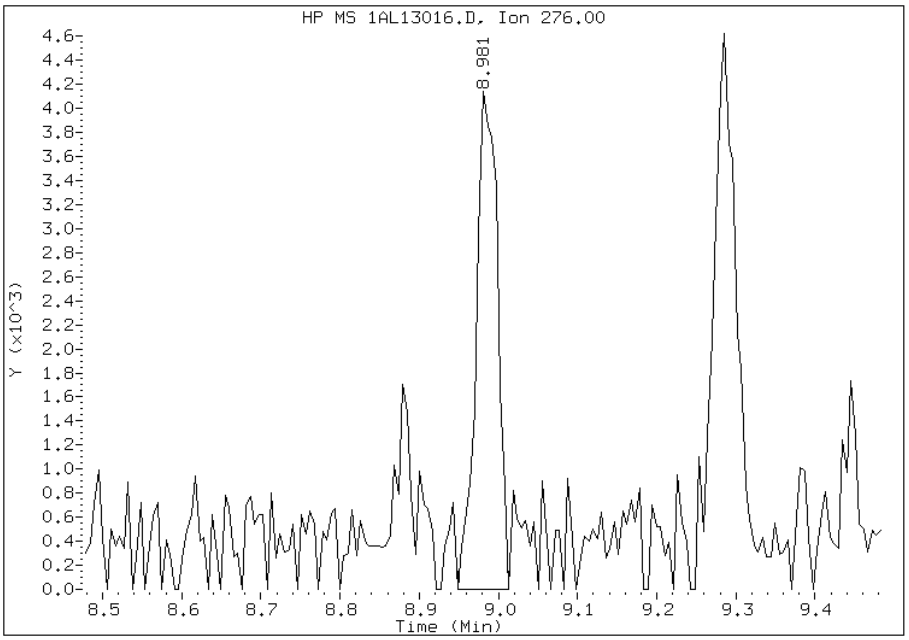
Processing Integration Results

RT: 8.98

Response: 7667

Amount: 1

Conc: 53



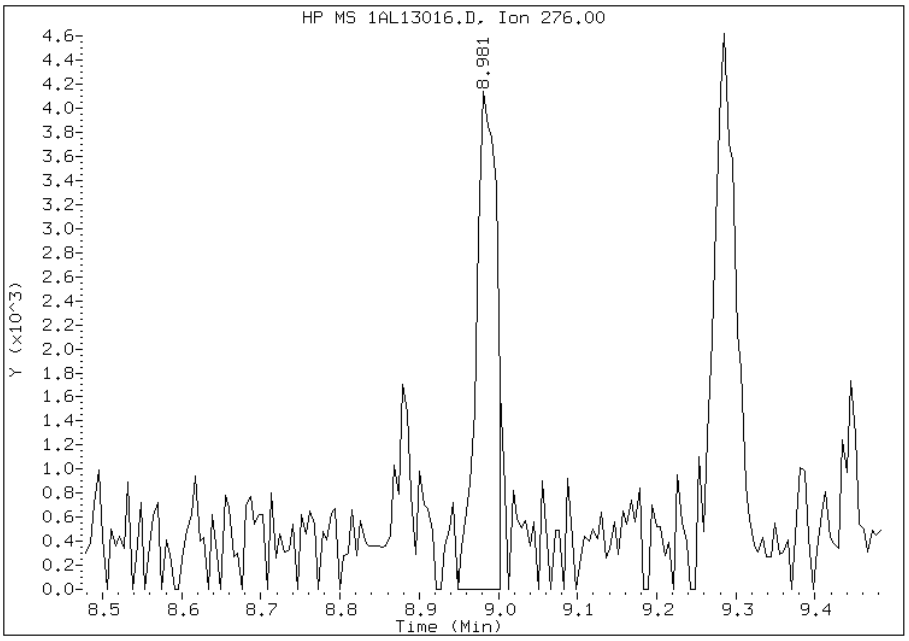

Manual Integration Results

RT: 8.98

Response: 7399

Amount: 1

Conc: 51




Manually Integrated By: cantins
Modification Date: 17-Dec-2012 14:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AL13016.D
Inj. Date and Time: 13-DEC-2012 14:45
Instrument ID: BSMA5973.i
Client ID: FM0025A-CS-SP
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 12/17/2012

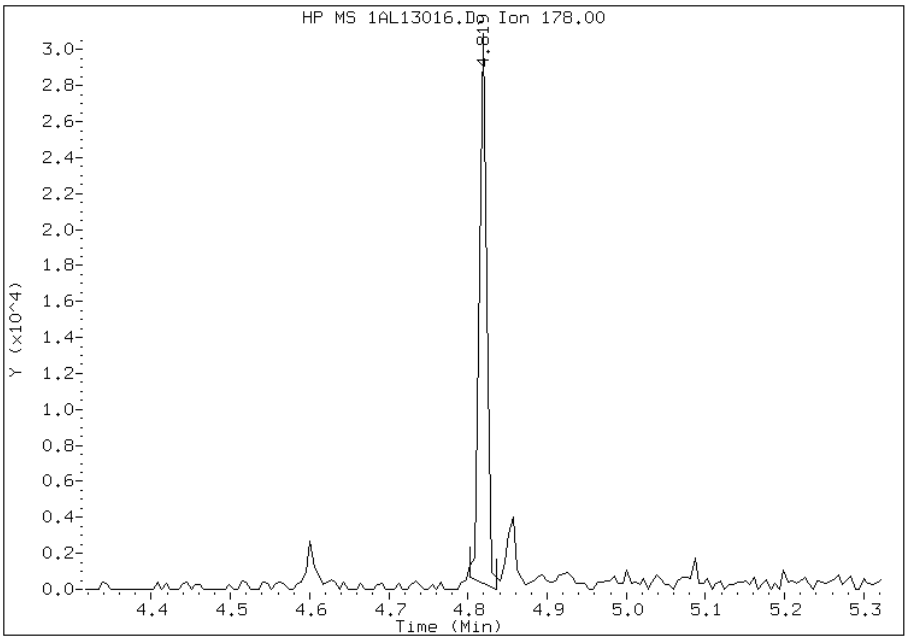
Processing Integration Results

RT: 4.82

Response: 18867

Amount: 1

Conc: 91



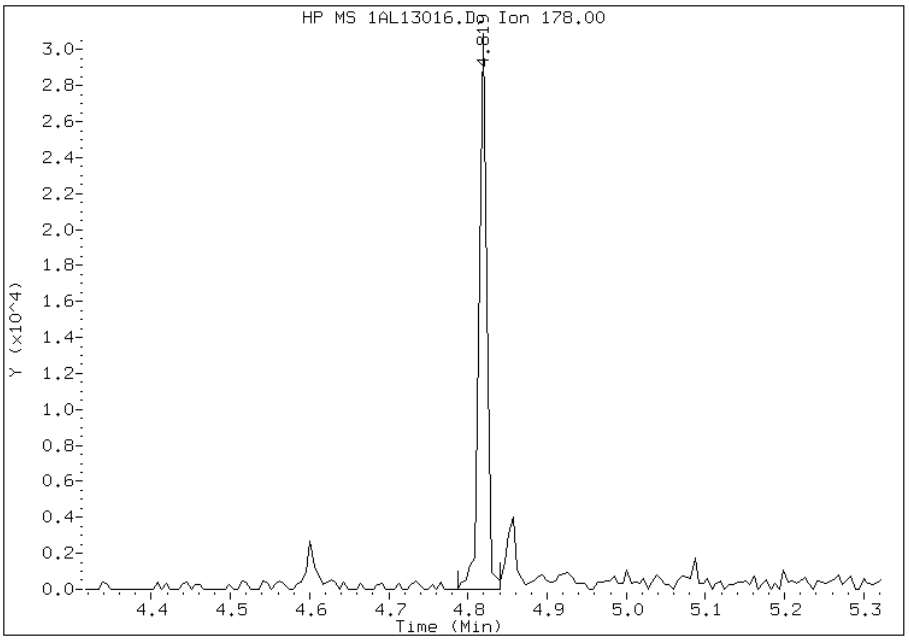

Manual Integration Results

RT: 4.82

Response: 20060

Amount: 1

Conc: 97




Manually Integrated By: cantins
Modification Date: 17-Dec-2012 14:04
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0025B-CS | Lab Sample ID: 680-85534-14

Matrix: Solid | Lab File ID: 1DL16012.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:41

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.06(g) | Date Analyzed: 12/16/2012 13:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 24 |
| 208-96-8 | Acenaphthylene | 9.3 | J | 48 | 6.0 |
| 120-12-7 | Anthracene | 14 | | 10 | 5.0 |
| 56-55-3 | Benzo[a]anthracene | 61 | | 9.6 | 4.7 |
| 50-32-8 | Benzo[a]pyrene | 60 | | 12 | 6.2 |
| 205-99-2 | Benzo[b]fluoranthene | 110 | | 15 | 7.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 45 | | 24 | 5.3 |
| 207-08-9 | Benzo[k]fluoranthene | 39 | | 9.6 | 4.3 |
| 218-01-9 | Chrysene | 88 | | 11 | 5.4 |
| 53-70-3 | Dibenz(a,h)anthracene | 16 | J | 24 | 4.9 |
| 206-44-0 | Fluoranthene | 100 | | 24 | 4.8 |
| 86-73-7 | Fluorene | 5.6 | J | 24 | 4.9 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 44 | | 24 | 8.5 |
| 90-12-0 | 1-Methylnaphthalene | 23 | J | 48 | 5.3 |
| 91-57-6 | 2-Methylnaphthalene | 30 | J | 48 | 8.5 |
| 91-20-3 | Naphthalene | 36 | J | 48 | 5.3 |
| 85-01-8 | Phenanthrene | 70 | | 9.6 | 4.7 |
| 129-00-0 | Pyrene | 81 | | 24 | 4.4 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 70 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16012.D
Lab Smp Id: 680-85534-A-14-A  Client Smp ID: FM0025B-CS
Inj Date  : 16-DEC-2012 13:15
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-14-A
Misc Info : 680-85534-A-14-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.060 | Weight Extracted |
| M | 16.735 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.264 | 6.265 | (1.000) | 4112557 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.932 | 7.934 | (1.000) | 2435955 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.190 | 9.191 | (1.000) | 3939813 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.495 | 9.503 | (1.033) | 433869 | 6.98196 | 560 |
| * 17 Chrysene-d12 | 240 | 11.552 | 11.553 | (1.000) | 3807074 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.467 | 13.463 | (1.000) | 3943672 | 40.0000 | |
| 2 Naphthalene | 128 | 6.281 | 6.283 | (1.003) | 48195 | 0.45132 | 36 |
| 3 2-Methylnaphthalene | 142 | 6.980 | 6.982 | (1.114) | 25613 | 0.37149 | 30 |
| 4 1-Methylnaphthalene | 142 | 7.074 | 7.076 | (1.129) | 18574 | 0.28416 | 23 |
| 5 Acenaphthylene | 152 | 7.797 | 7.805 | (0.983) | 12365 | 0.11620 | 9.3 |
| 8 Fluorene | 166 | 8.396 | 8.398 | (1.059) | 5349 | 0.07040 | 5.6 |
| 10 Phenanthrene | 178 | 9.207 | 9.209 | (1.002) | 98964 | 0.87788 | 70 |
| 11 Anthracene | 178 | 9.242 | 9.250 | (1.006) | 20177 | 0.17853 | 14 |
| 12 Carbazole | 167 | 9.378 | 9.379 | (1.020) | 14867 | 0.14859 | 12(Q) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 14 Fluoranthene | 202 | 10.183 | 10.190 | (1.108) | 148139 | 1.30024 | 100 |
| 15 Pyrene | 202 | 10.376 | 10.378 | (0.898) | 122818 | 1.01151 | 81 |
| 16 Benzo(a)anthracene | 228 | 11.534 | 11.530 | (0.998) | 78176 | 0.76087 | 61 |
| 18 Chrysene | 228 | 11.575 | 11.583 | (1.002) | 118432 | 1.09806 | 88 |
| 19 Benzo(b)fluoranthene | 252 | 12.885 | 12.893 | (0.957) | 133367 | 1.37783 | 110 |
| 20 Benzo(k)fluoranthene | 252 | 12.921 | 12.940 | (0.959) | 52119 | 0.48598 | 39 |
| 21 Benzo(a)pyrene | 252 | 13.355 | 13.363 | (0.992) | 72841 | 0.75421 | 60 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.100 | 15.114 | (1.121) | 52045 | 0.54636 | 44(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.130 | 15.149 | (1.123) | 19069 | 0.20394 | 16(Q) |
| 25 Benzo(g,h,i)perylene | 276 | 15.570 | 15.590 | (1.156) | 54882 | 0.55965 | 45 |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DL16012.D

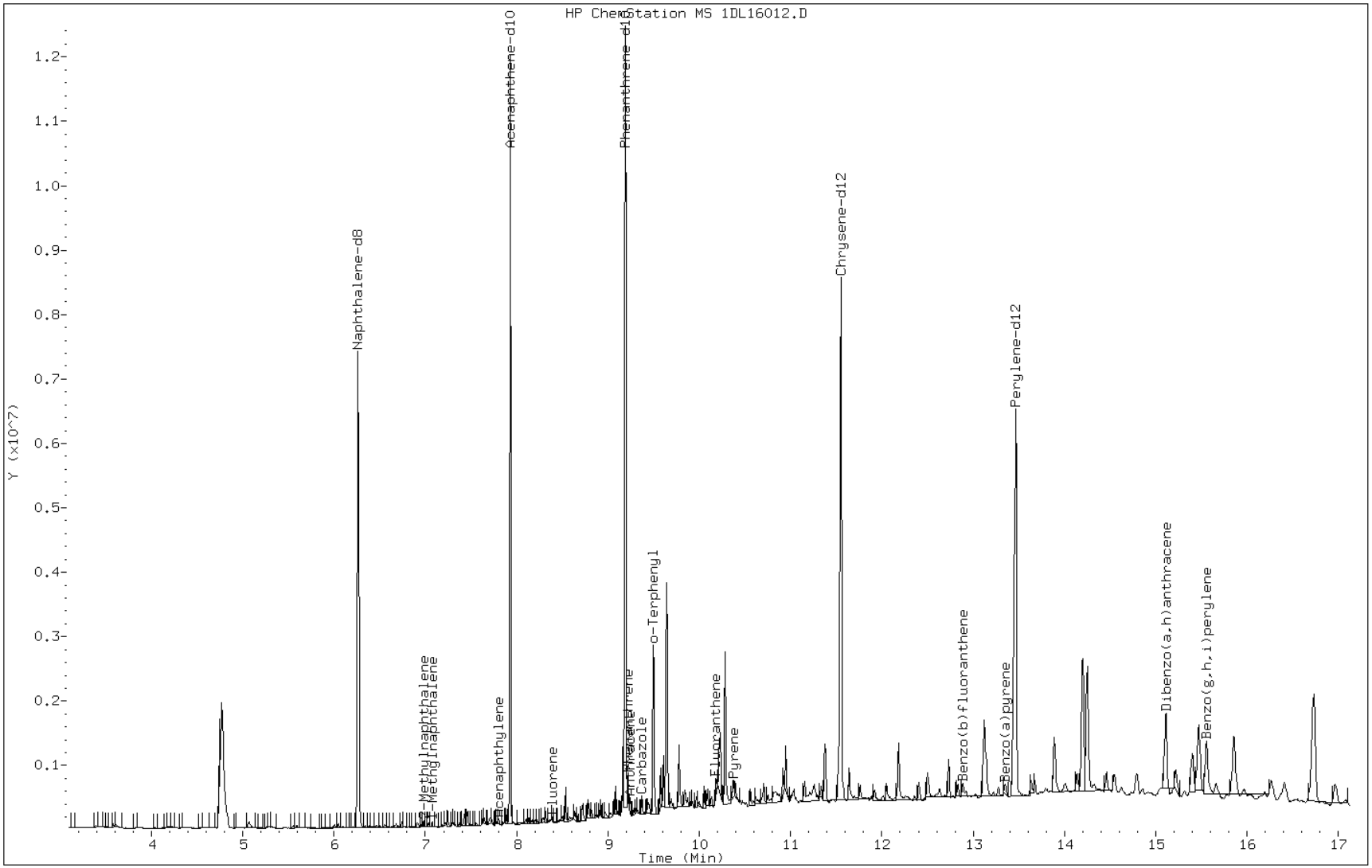
Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A

Operator: SCC



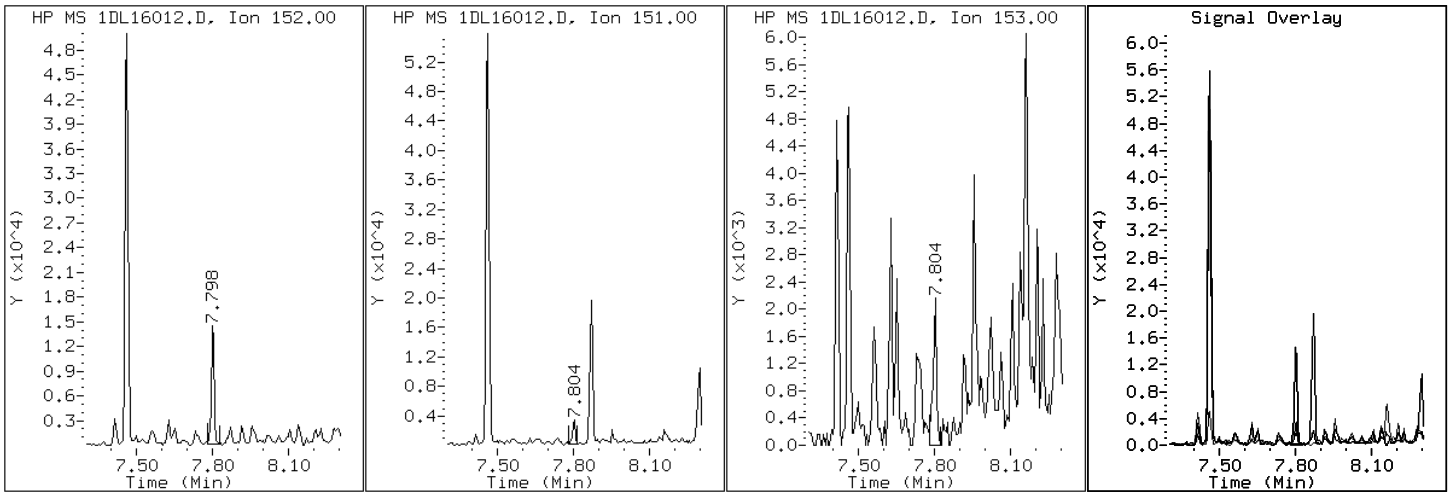
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

5 Acenaphthylene



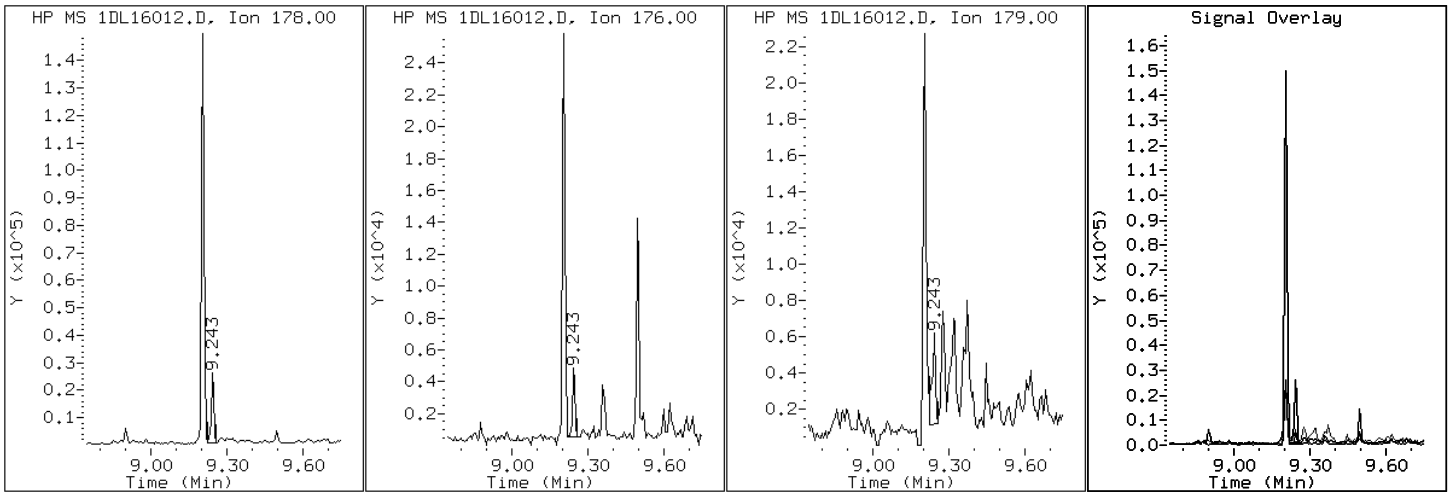
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

11 Anthracene



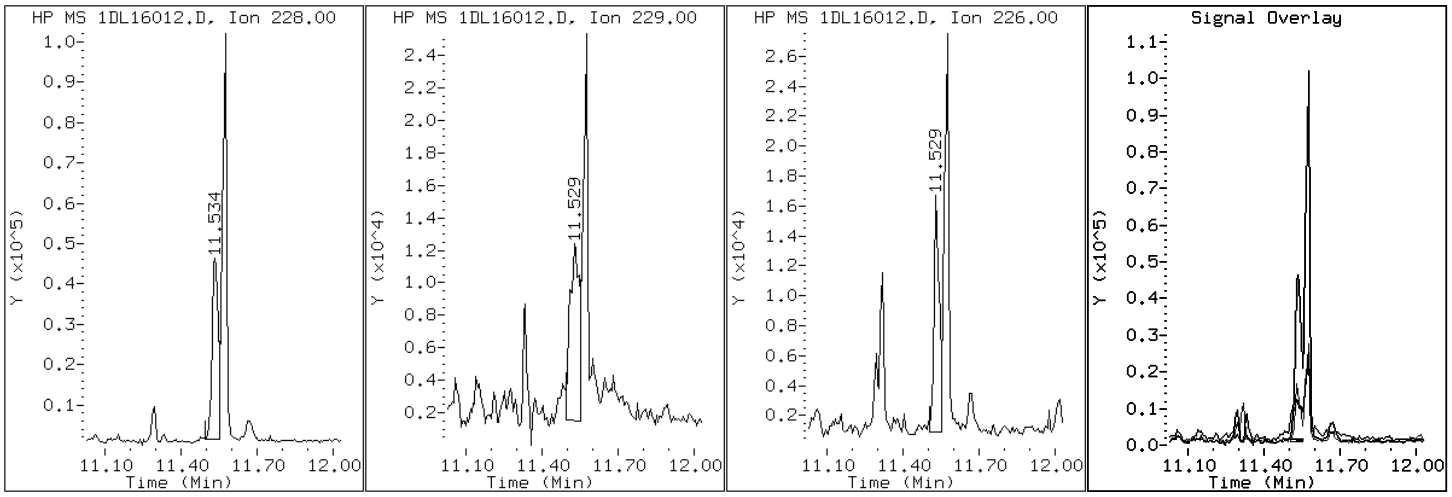
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

16 Benzo(a)anthracene



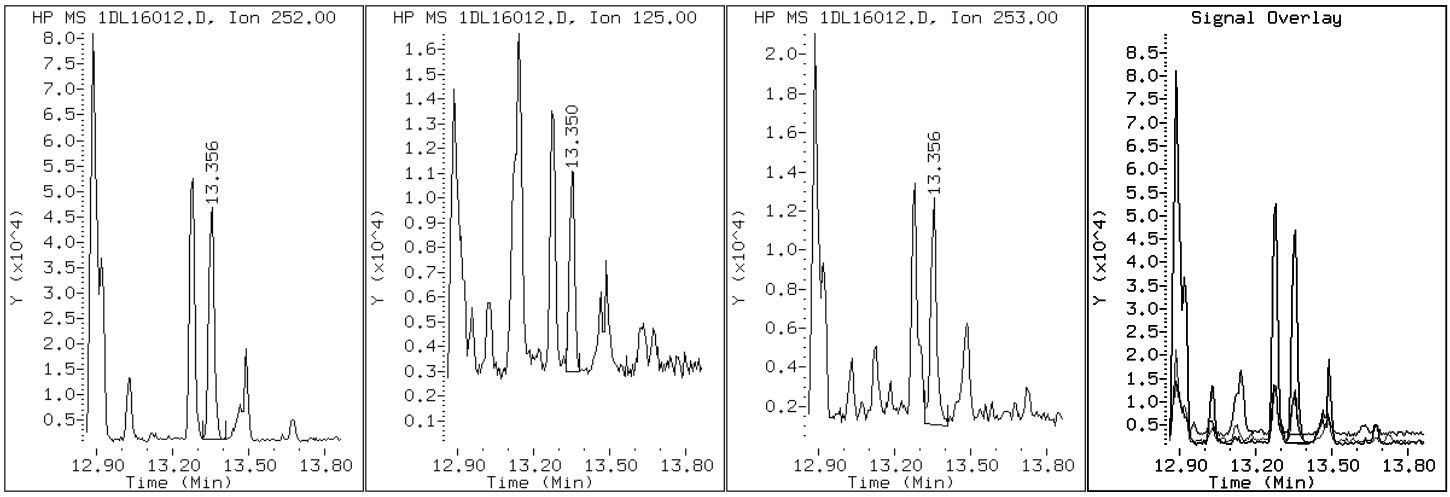
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

21 Benzo(a)pyrene



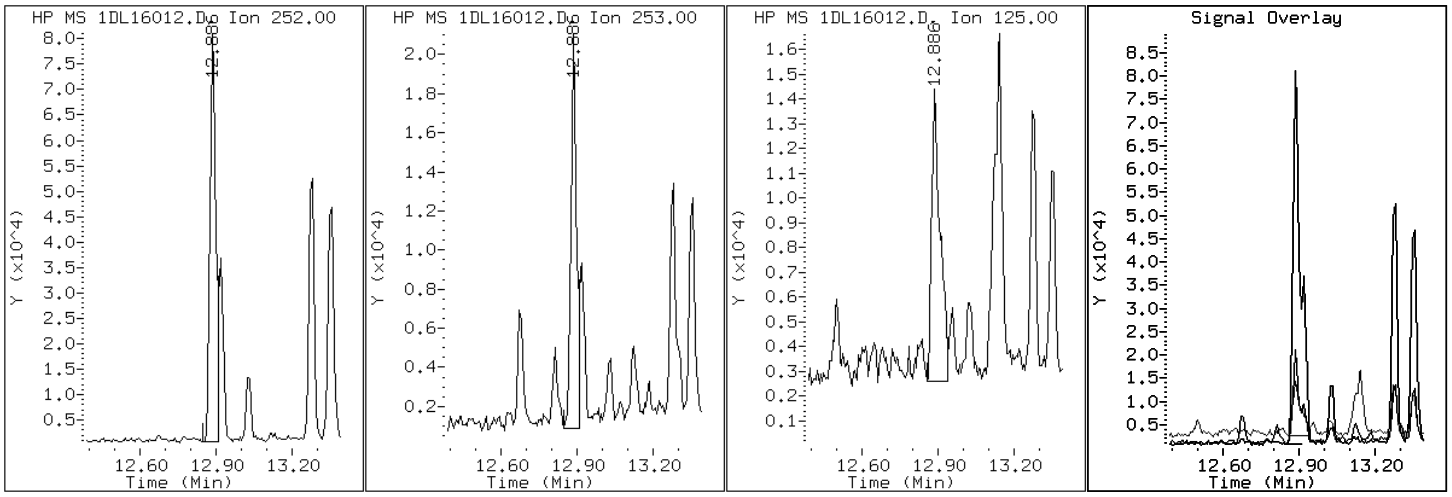
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

19 Benzo(b)fluoranthene



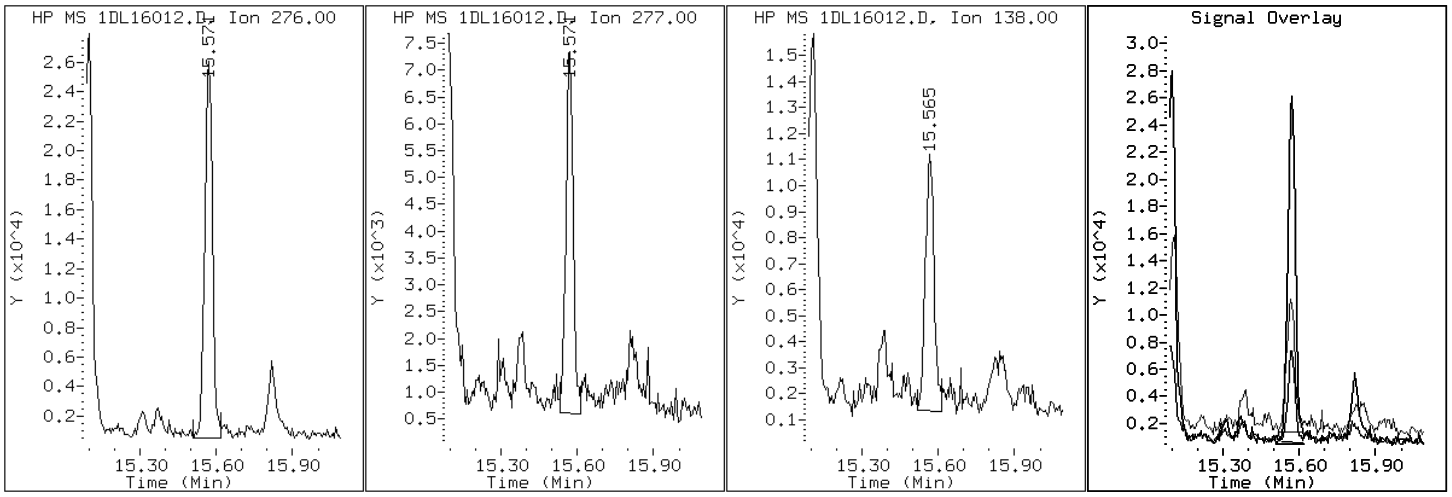
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

25 Benzo(g,h,i)perylene



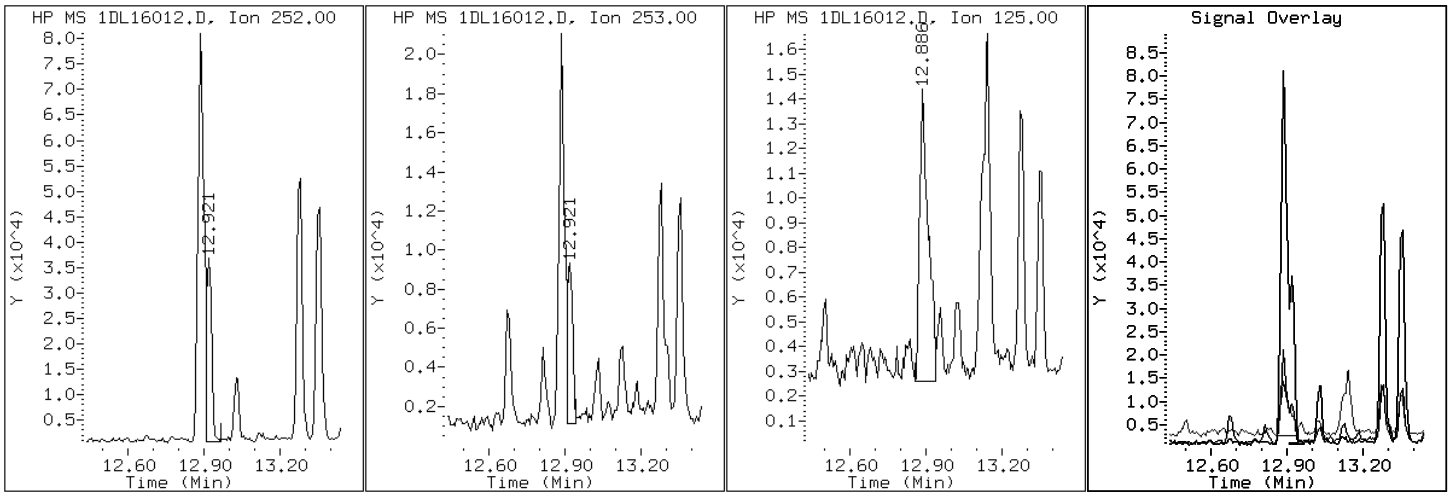
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

20 Benzo(k)fluoranthene



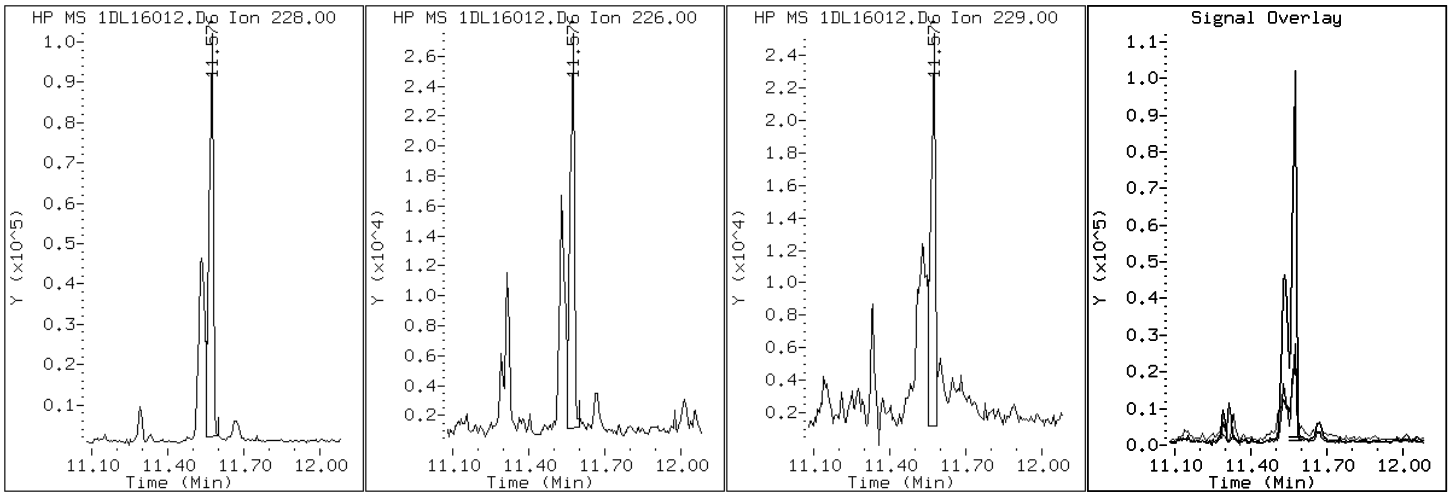
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

18 Chrysene



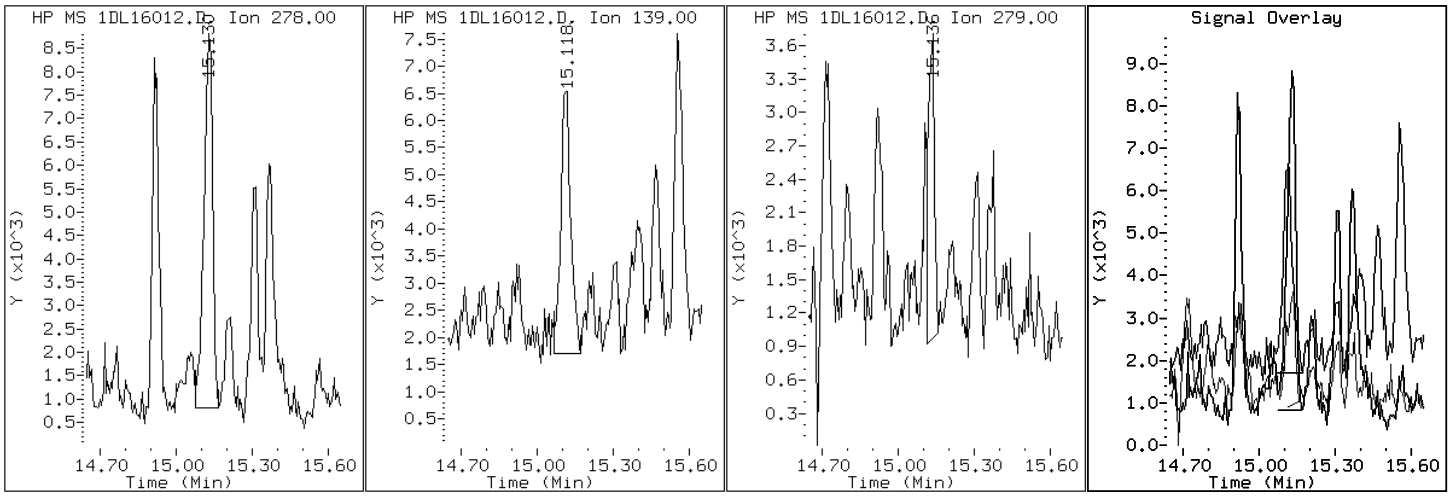
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

24 Dibenzo(a,h)anthracene



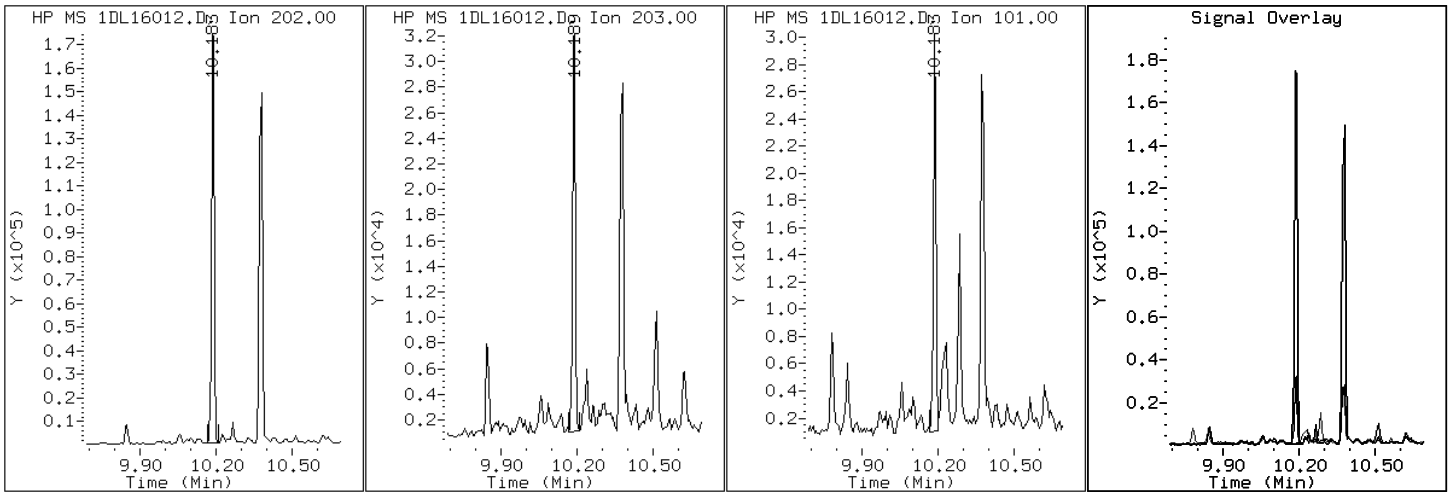
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

14 Fluoranthene



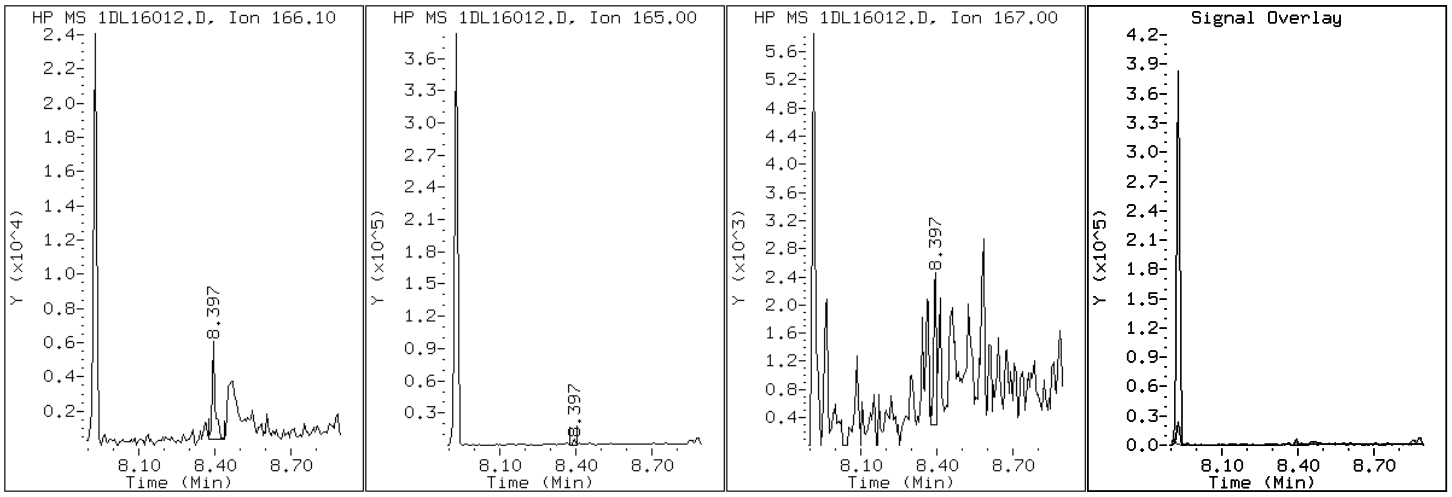
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

8 Fluorene



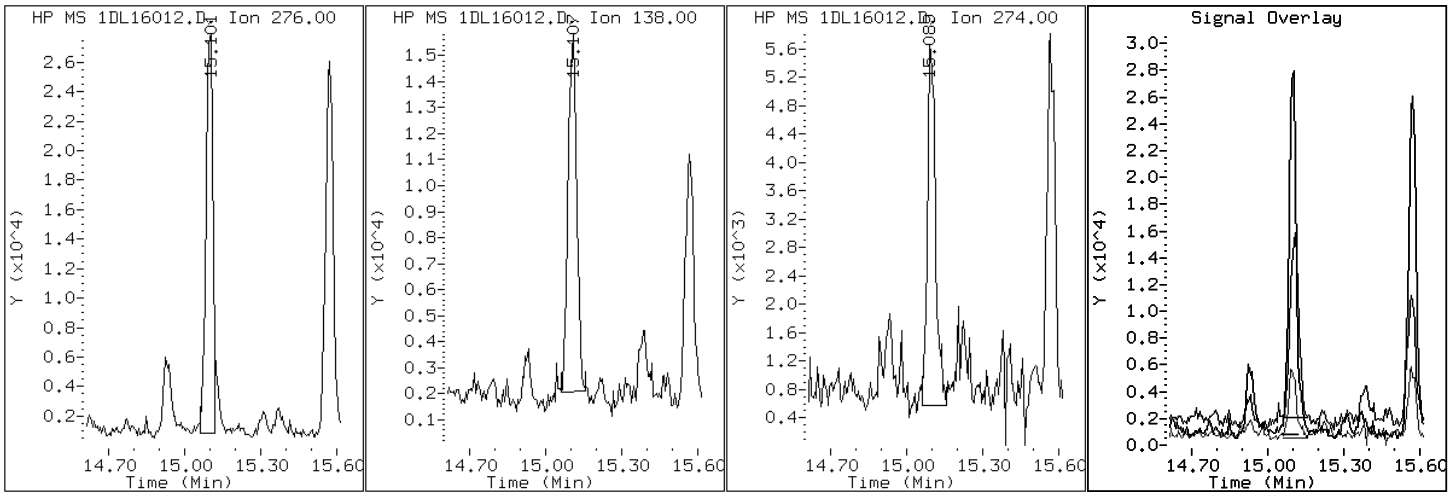
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



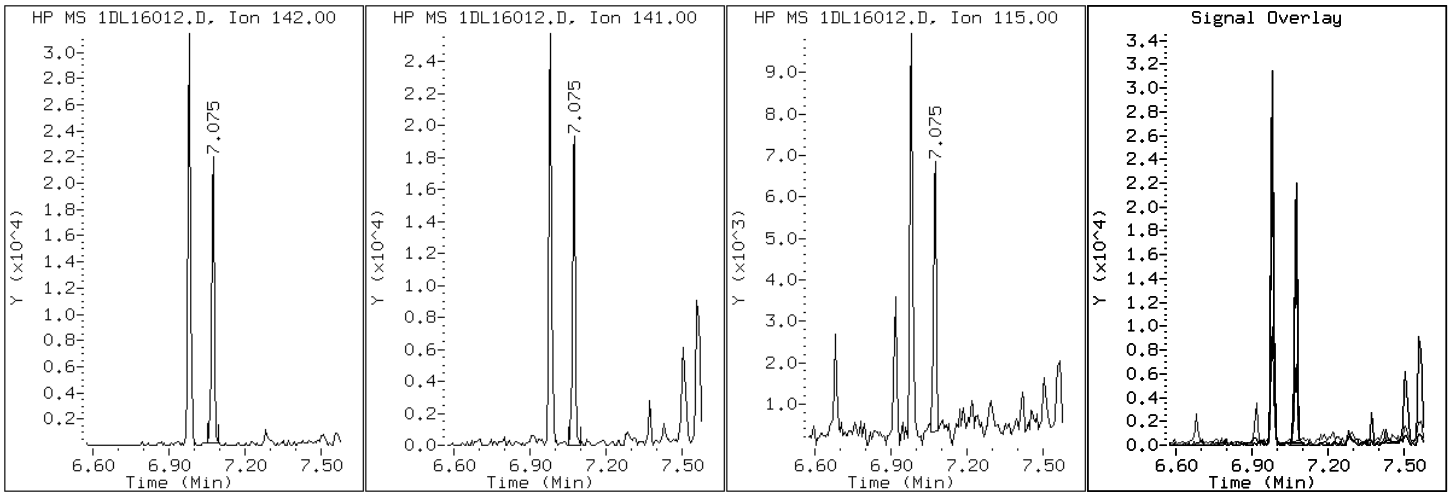
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

4 1-Methylnaphthalene



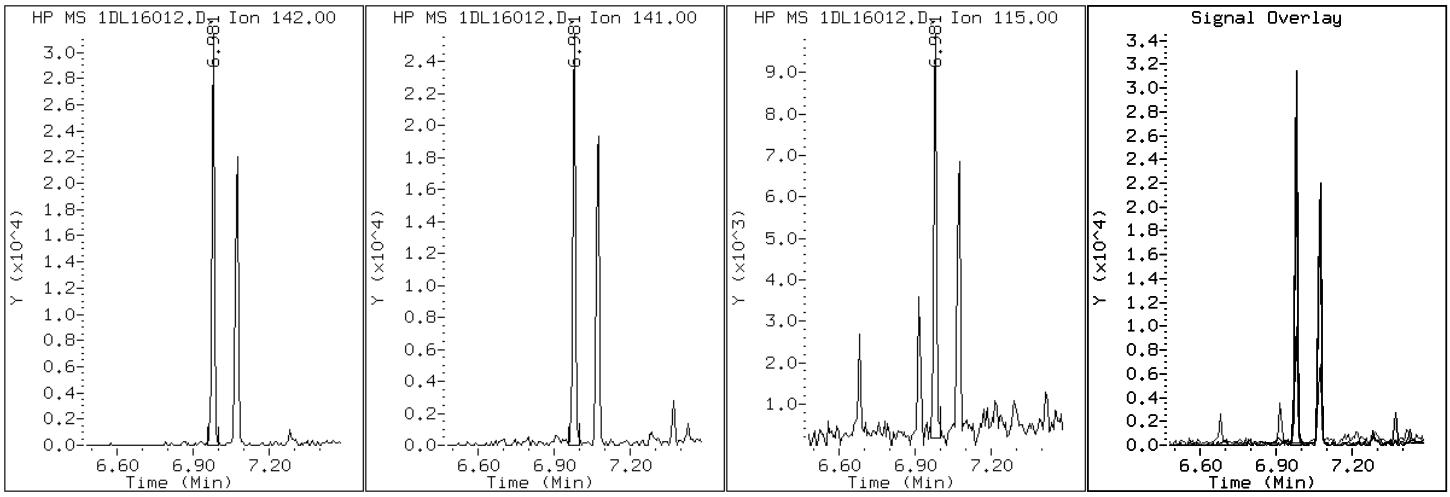
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

3 2-Methylnaphthalene



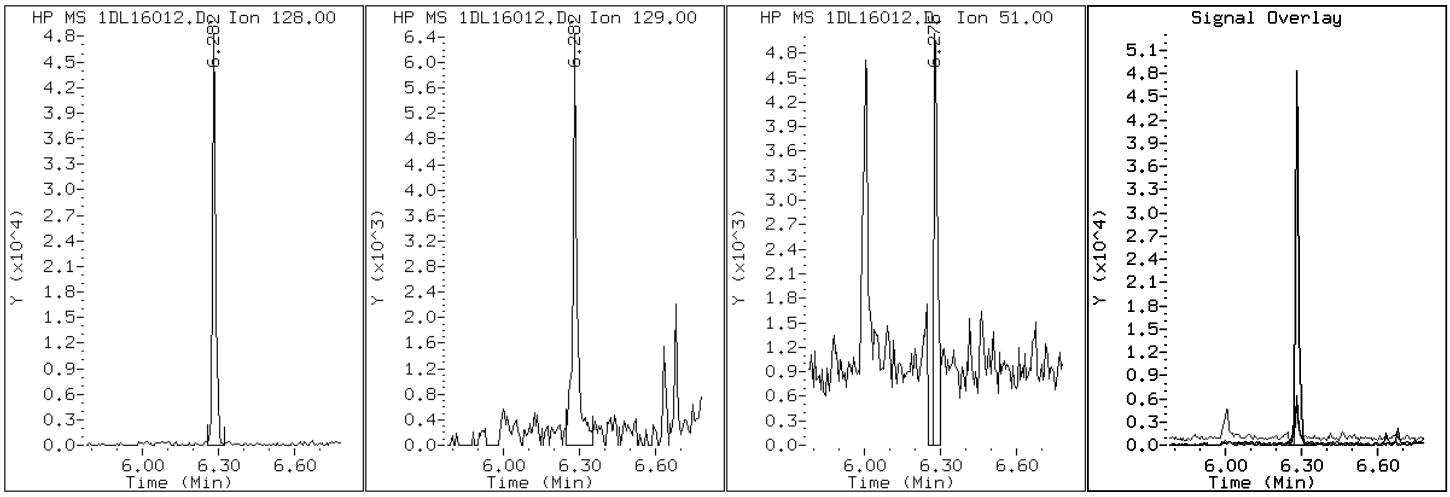
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

2 Naphthalene



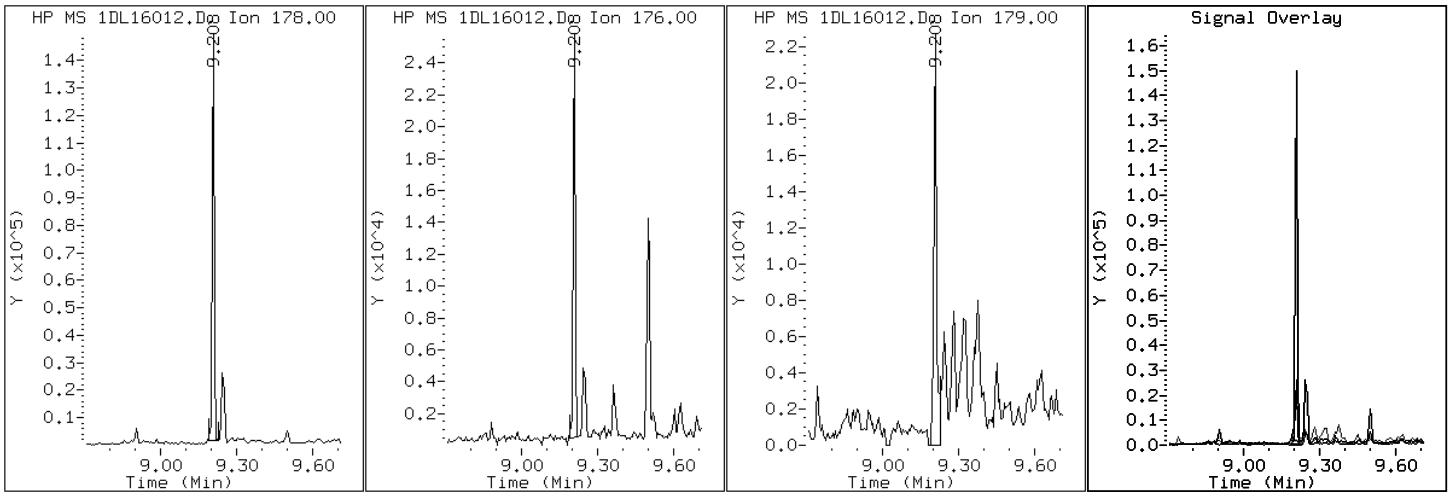
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

10 Phenanthrene



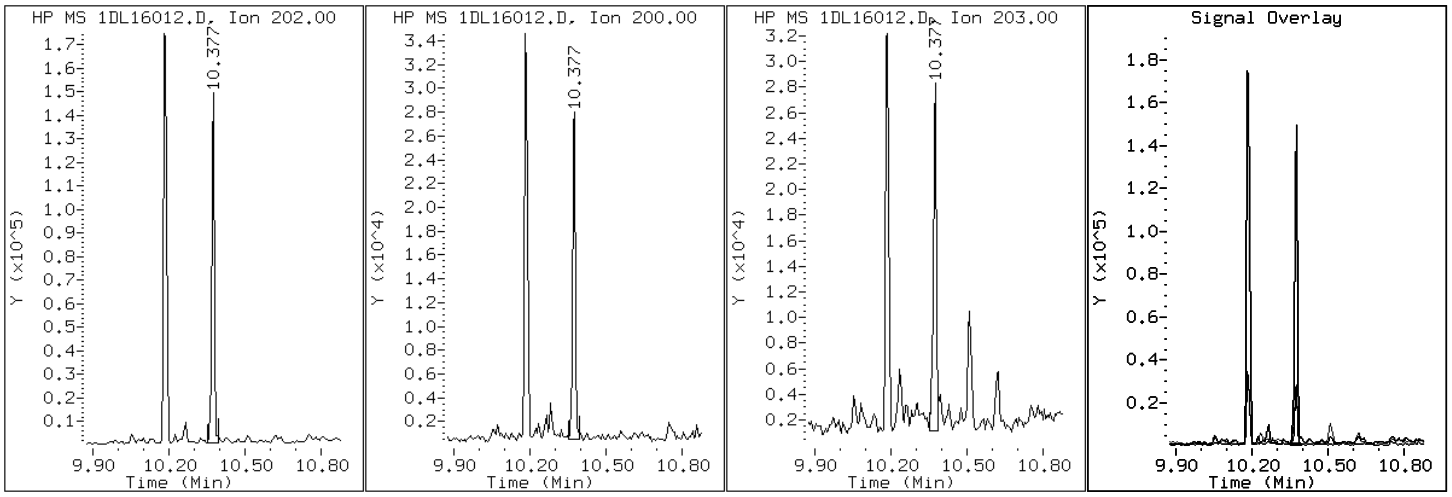
Data File: 1DL16012.D

Date: 16-DEC-2012 13:15

Client ID: FM0025B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-14-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16012.D
Inj. Date and Time: 16-DEC-2012 13:15
Instrument ID: BSMSD.i
Client ID: FM0025B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

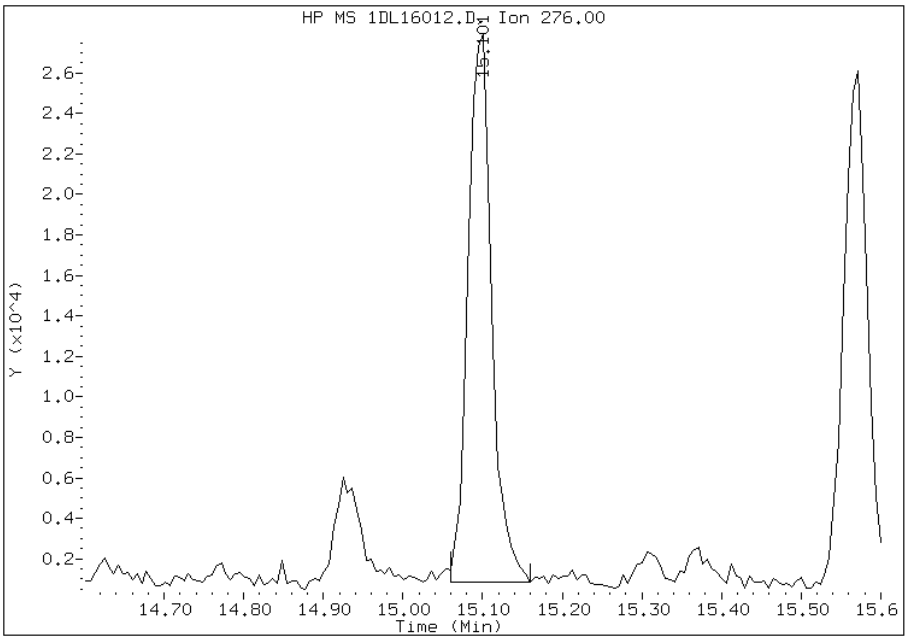
Processing Integration Results

RT: 15.10

Response: 56010

Amount: 1

Conc: 47



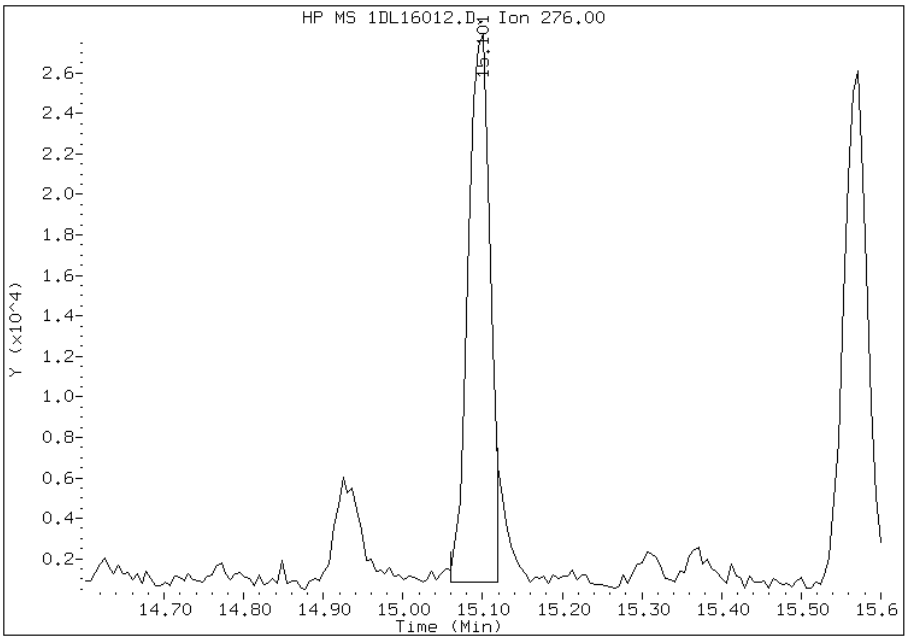

Manual Integration Results

RT: 15.10

Response: 52045

Amount: 1

Conc: 44




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0025C-CS-SP | Lab Sample ID: 680-85534-15

Matrix: Solid | Lab File ID: 1DL16013.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:42

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 14.99(g) | Date Analyzed: 12/16/2012 13:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 25 |
| 208-96-8 | Acenaphthylene | 50 | U | 50 | 6.2 |
| 120-12-7 | Anthracene | 12 | | 10 | 5.2 |
| 56-55-3 | Benzo[a]anthracene | 39 | | 10 | 4.9 |
| 50-32-8 | Benzo[a]pyrene | 34 | | 13 | 6.5 |
| 205-99-2 | Benzo[b]fluoranthene | 67 | | 15 | 7.6 |
| 191-24-2 | Benzo[g,h,i]perylene | 25 | | 25 | 5.5 |
| 207-08-9 | Benzo[k]fluoranthene | 19 | | 10 | 4.5 |
| 218-01-9 | Chrysene | 57 | | 11 | 5.6 |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | J | 25 | 5.1 |
| 206-44-0 | Fluoranthene | 60 | | 25 | 5.0 |
| 86-73-7 | Fluorene | 25 | U | 25 | 5.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 24 | J | 25 | 8.9 |
| 90-12-0 | 1-Methylnaphthalene | 25 | J | 50 | 5.5 |
| 91-57-6 | 2-Methylnaphthalene | 35 | J | 50 | 8.9 |
| 91-20-3 | Naphthalene | 63 | | 50 | 5.5 |
| 85-01-8 | Phenanthrene | 58 | | 10 | 4.9 |
| 129-00-0 | Pyrene | 45 | | 25 | 4.6 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 58 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16013.D
Lab Smp Id: 680-85534-A-15-A  Client Smp ID: FM0025C-CS-SP
Inj Date  : 16-DEC-2012 13:38
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-15-A
Misc Info : 680-85534-A-15-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.990 | Weight Extracted |
| M | 19.894 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.263 | 6.265 | (1.000) | 4124335 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.932 | 7.934 | (1.000) | 2418864 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.189 | 9.191 | (1.000) | 3937433 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.500 | 9.503 | (1.034) | 358871 | 5.77856 | 480 |
| * 17 Chrysene-d12 | 240 | 11.557 | 11.553 | (1.000) | 3772157 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.472 | 13.463 | (1.000) | 3936195 | 40.0000 | |
| 2 Naphthalene | 128 | 6.281 | 6.283 | (1.003) | 80481 | 0.75152 | 62 |
| 3 2-Methylnaphthalene | 142 | 6.980 | 6.982 | (1.114) | 29144 | 0.42150 | 35 |
| 4 1-Methylnaphthalene | 142 | 7.068 | 7.076 | (1.129) | 19886 | 0.30336 | 25 |
| 5 Acenaphthylene | 152 | 7.796 | 7.805 | (0.983) | 6620 | 0.06265 | 5.2 |
| 10 Phenanthrene | 178 | 9.207 | 9.209 | (1.002) | 78572 | 0.69741 | 58 |
| 11 Anthracene | 178 | 9.248 | 9.250 | (1.006) | 16354 | 0.14479 | 12 |
| 12 Carbazole | 167 | 9.377 | 9.379 | (1.020) | 11289 | 0.11290 | 9.4(Q) |
| 14 Fluoranthene | 202 | 10.188 | 10.190 | (1.109) | 81576 | 0.71644 | 60 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Pyrene | 202 | 10.376 | 10.378 | (0.898) | 64901 | 0.53946 | 45 |
| 16 Benzo(a)anthracene | 228 | 11.539 | 11.530 | (0.998) | 47482 | 0.46641 | 39 |
| 18 Chrysene | 228 | 11.574 | 11.583 | (1.002) | 73068 | 0.68373 | 57 |
| 19 Benzo(b)fluoranthene | 252 | 12.890 | 12.893 | (0.957) | 77490 | 0.80208 | 67 |
| 20 Benzo(k)fluoranthene | 252 | 12.920 | 12.940 | (0.959) | 24839 | 0.23205 | 19(QH) |
| 21 Benzo(a)pyrene | 252 | 13.355 | 13.363 | (0.991) | 39129 | 0.40592 | 34 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.100 | 15.114 | (1.121) | 27225 | 0.28635 | 24(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.129 | 15.149 | (1.123) | 11459 | 0.12278 | 10 |
| 25 Benzo(g,h,i)perylene | 276 | 15.576 | 15.590 | (1.156) | 29778 | 0.30423 | 25(H) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16013.D

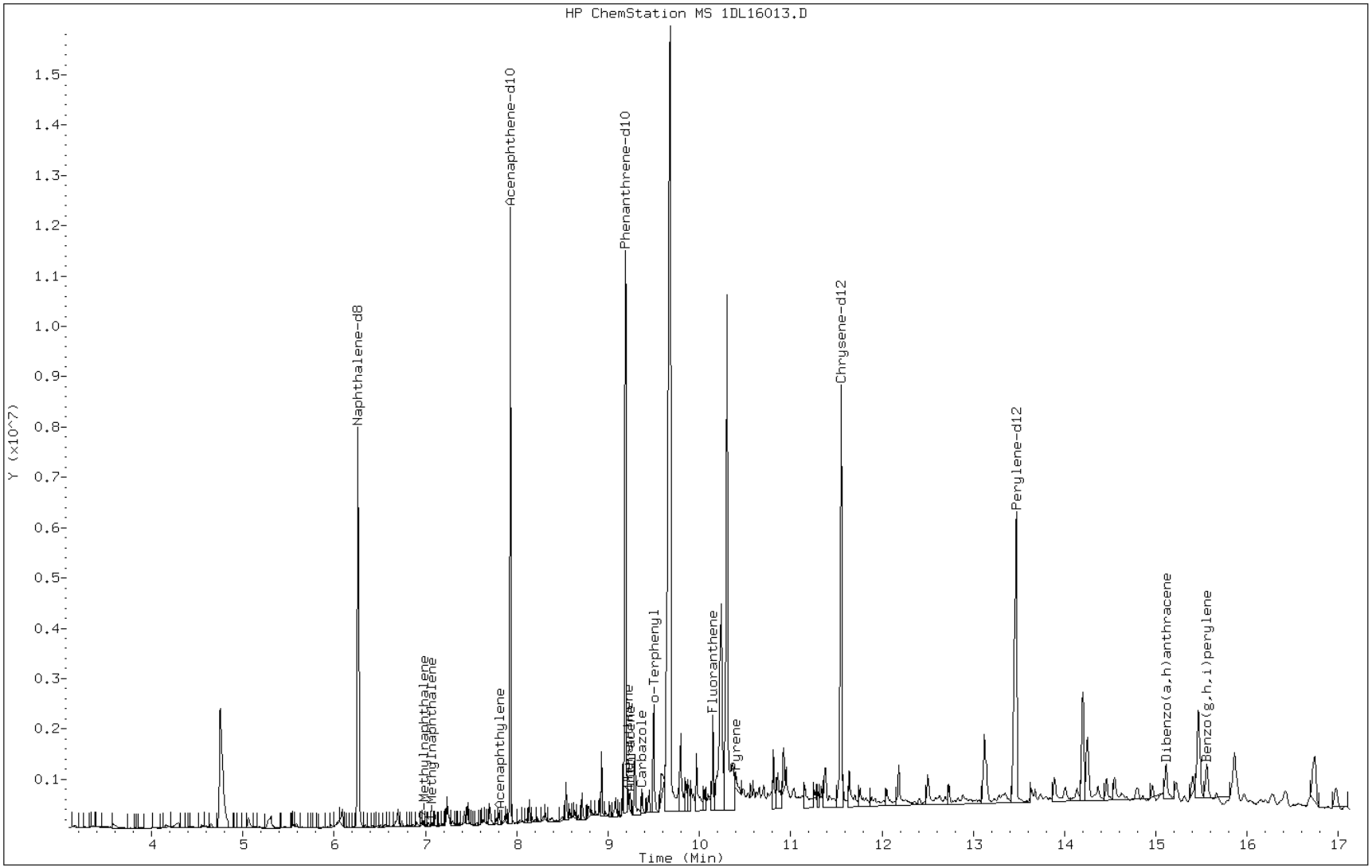
Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A

Operator: SCC



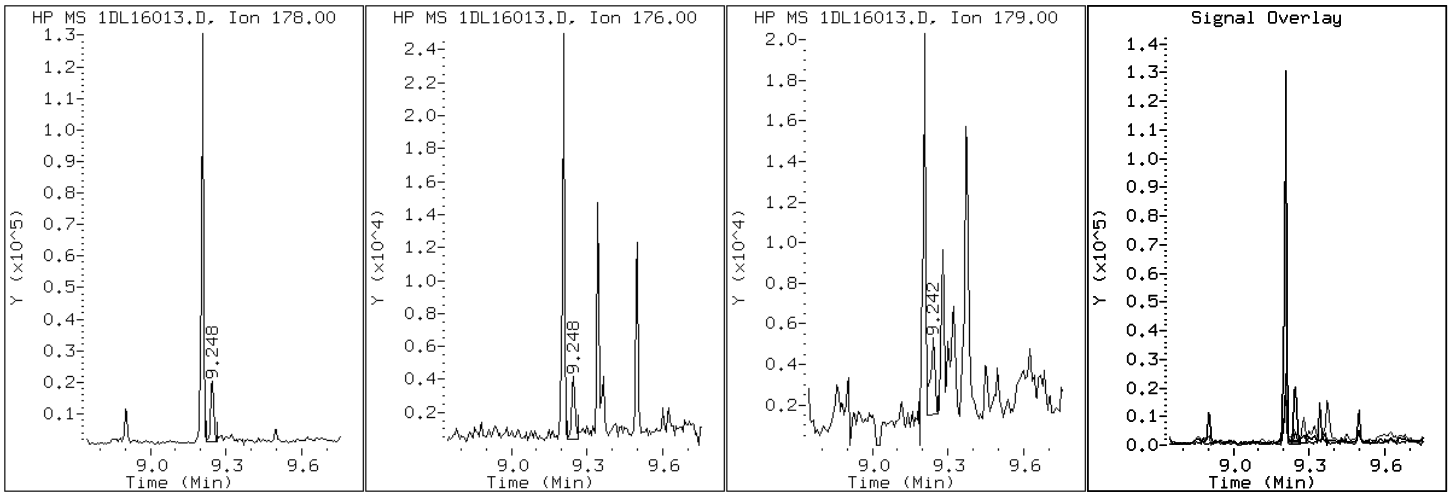
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

11 Anthracene



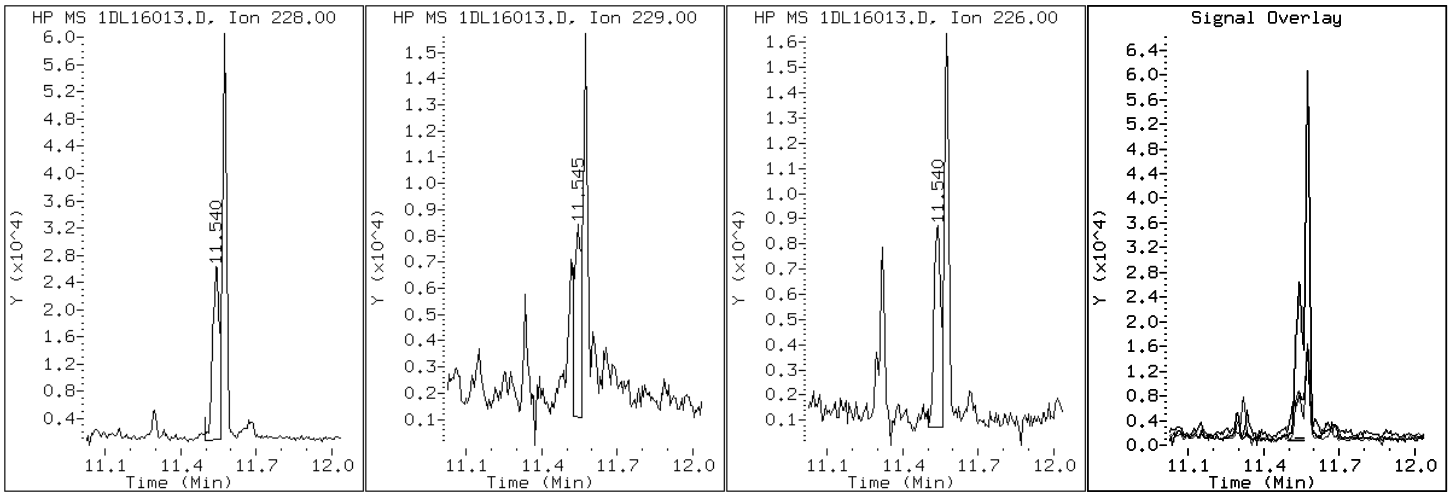
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

16 Benzo(a)anthracene



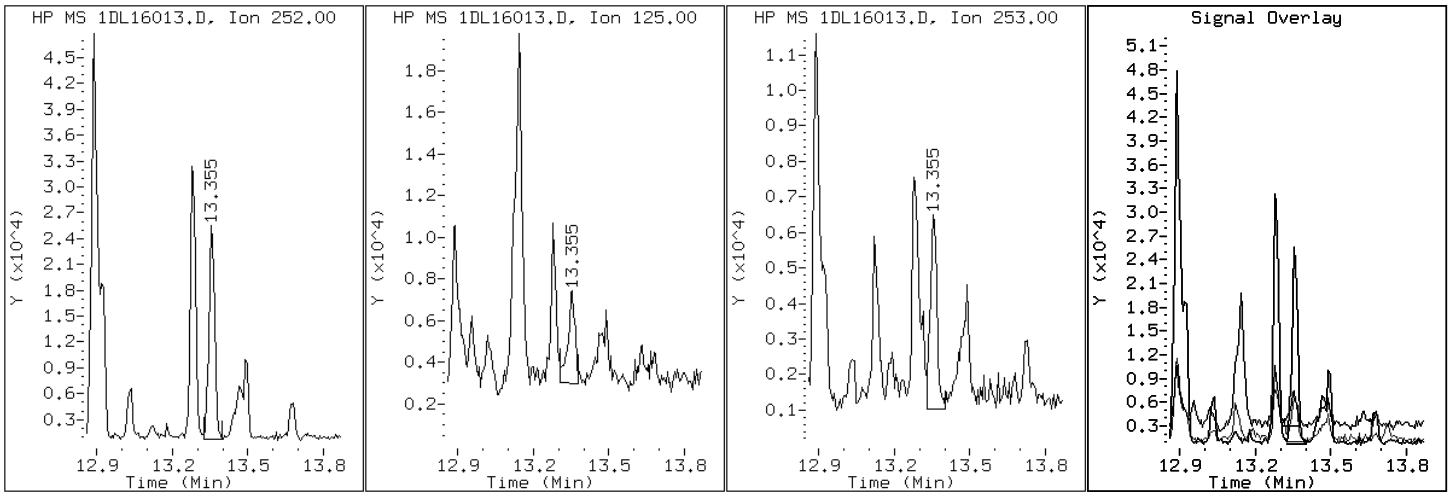
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

21 Benzo(a)pyrene



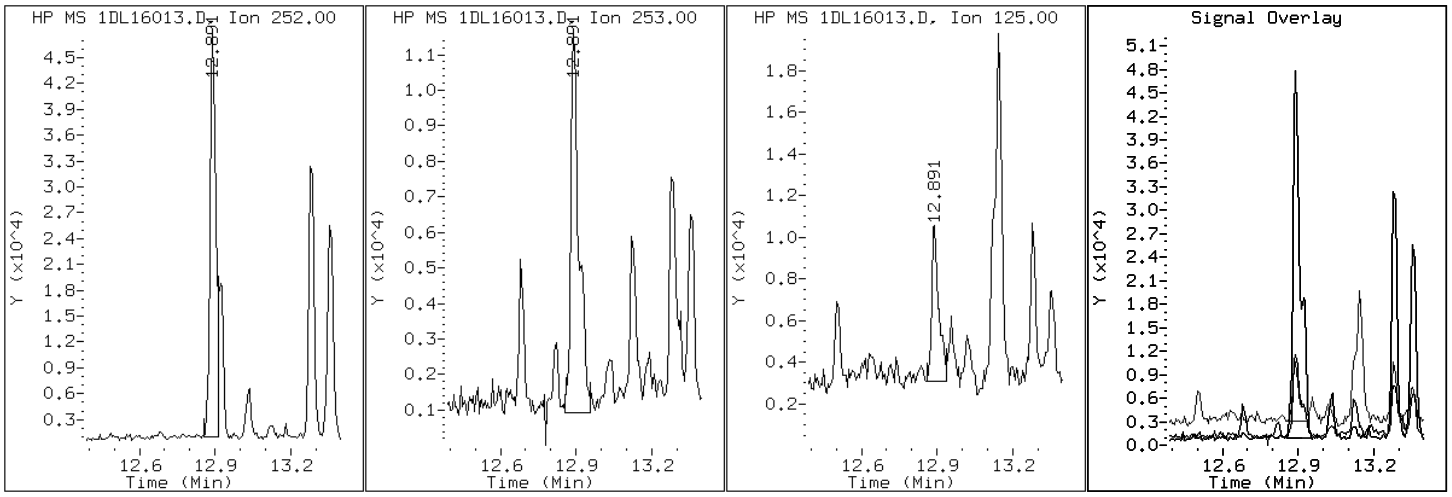
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

19 Benzo(b)fluoranthene



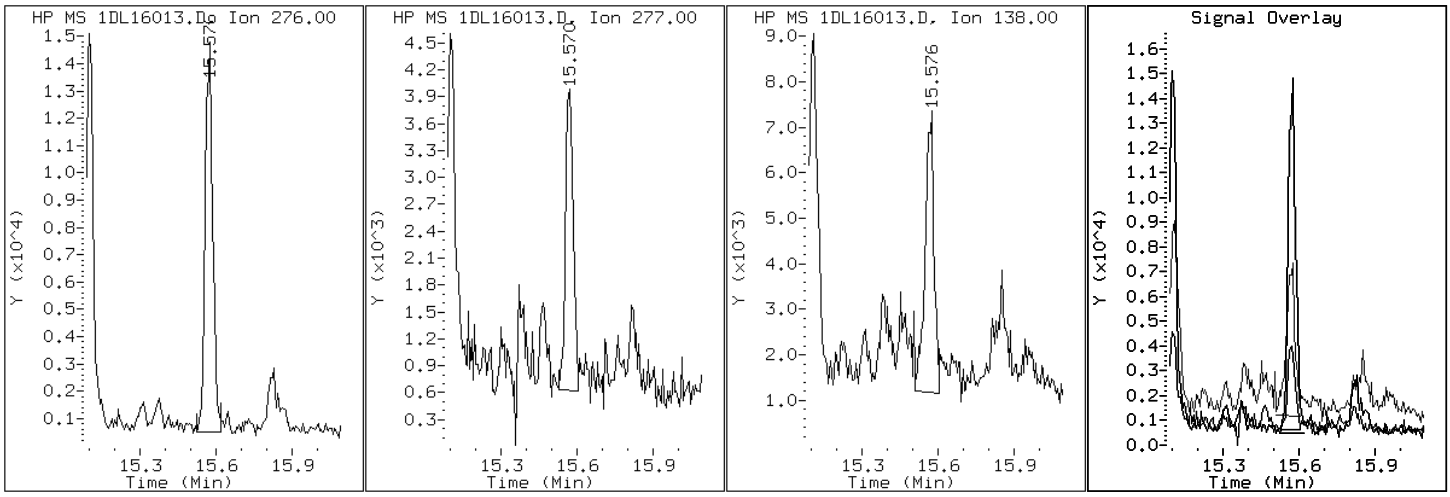
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

25 Benzo(g,h,i)perylene



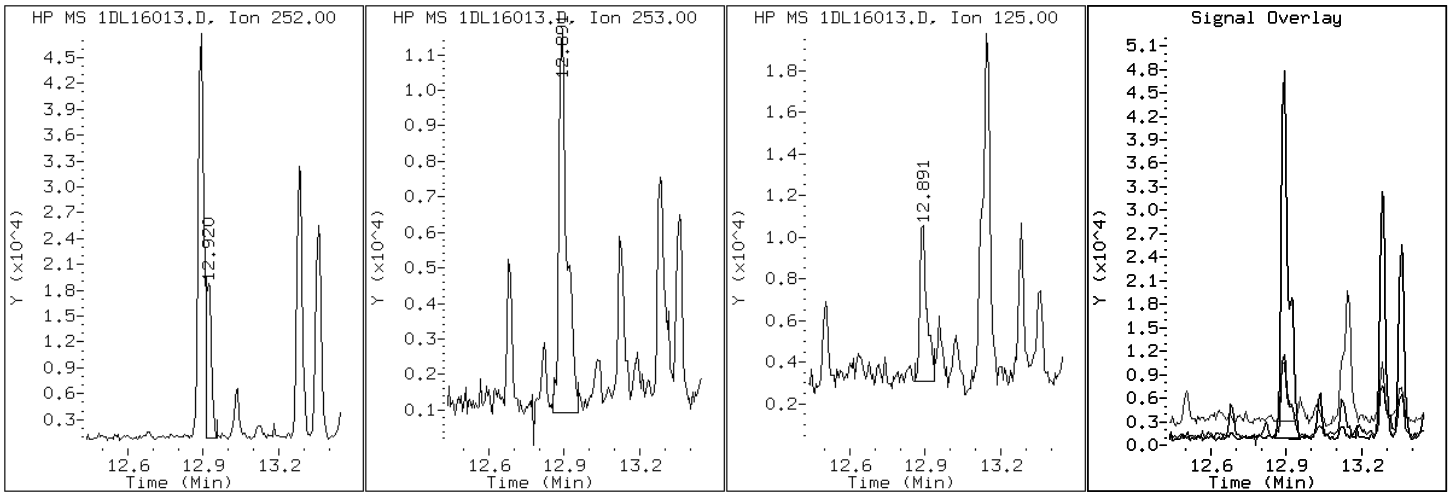
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

20 Benzo(k)fluoranthene



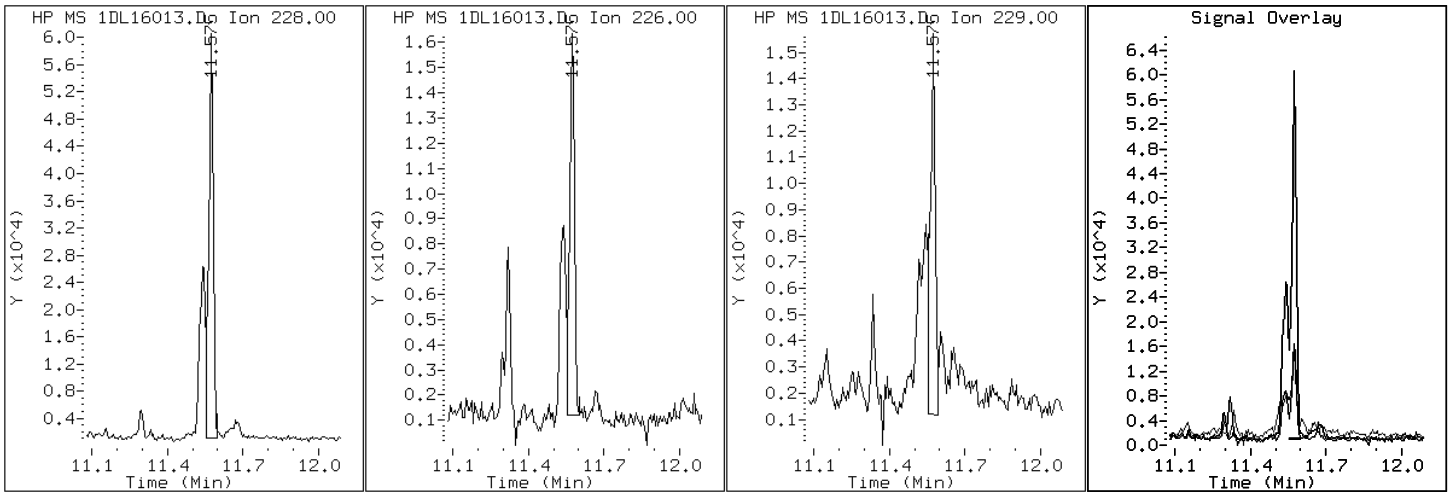
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

18 Chrysene



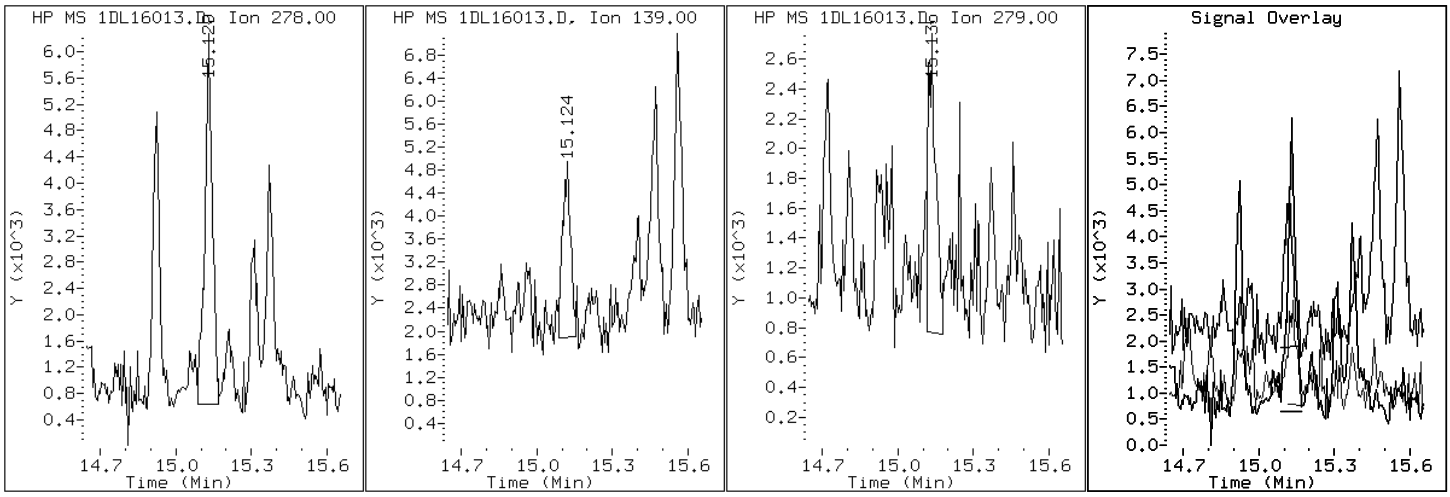
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

24 Dibenzo(a,h)anthracene



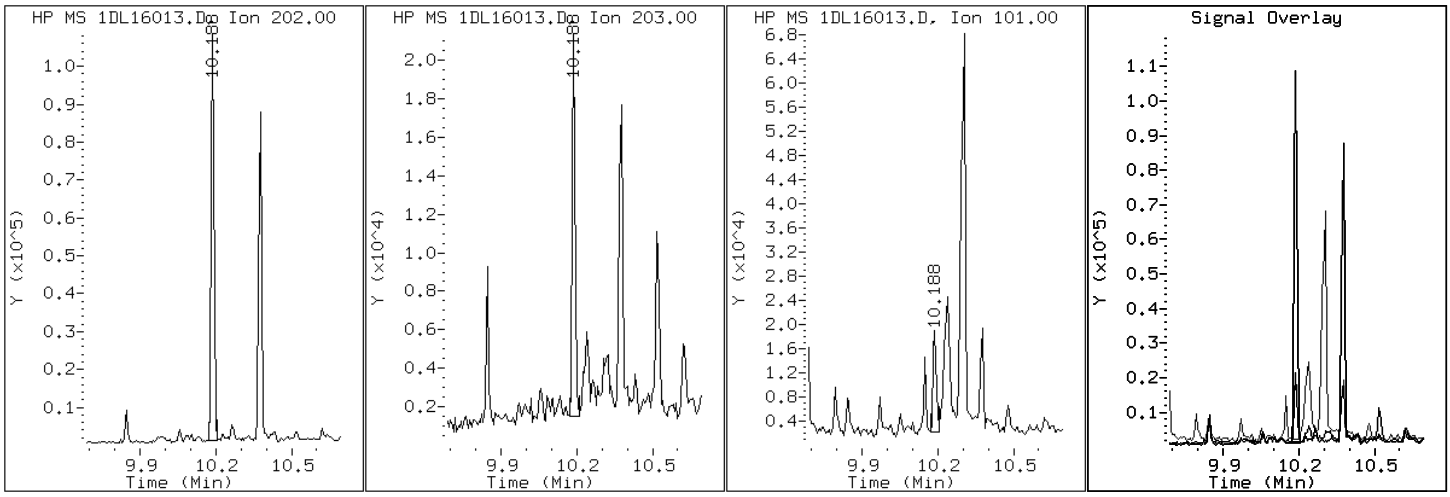
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

14 Fluoranthene



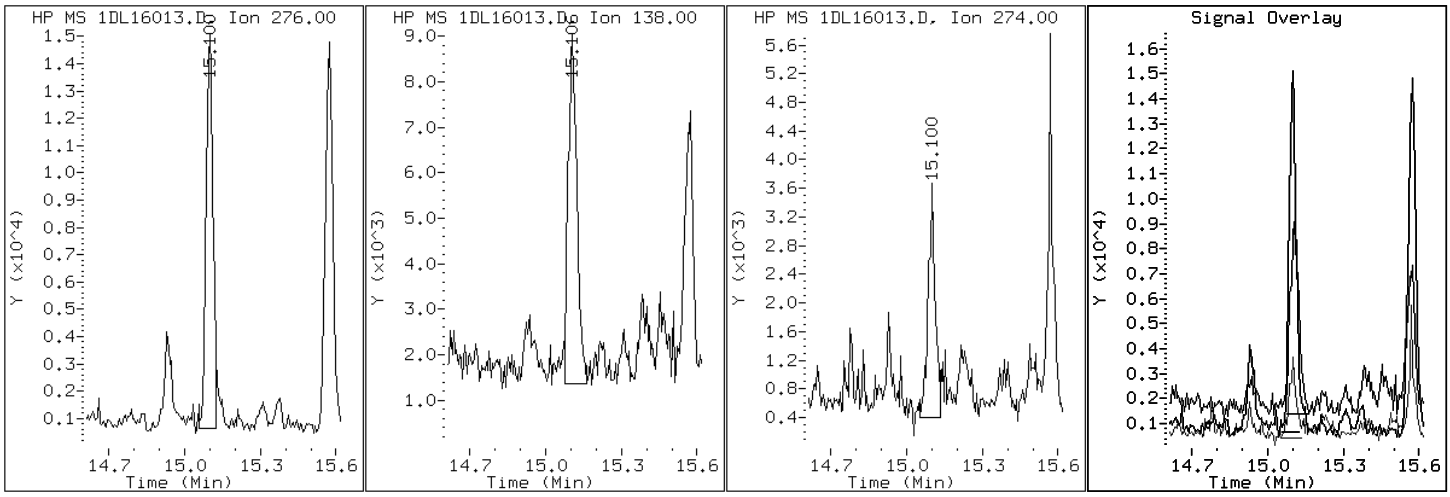
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

23 Indeno(1,2,3-cd)pyrene



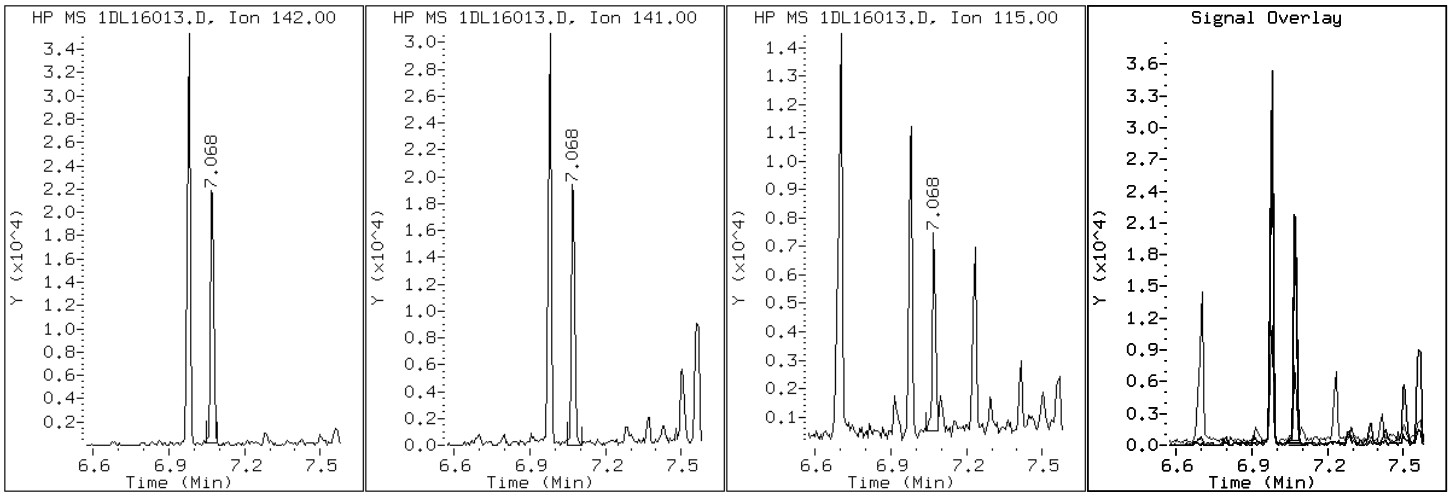
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

4 1-Methylnaphthalene



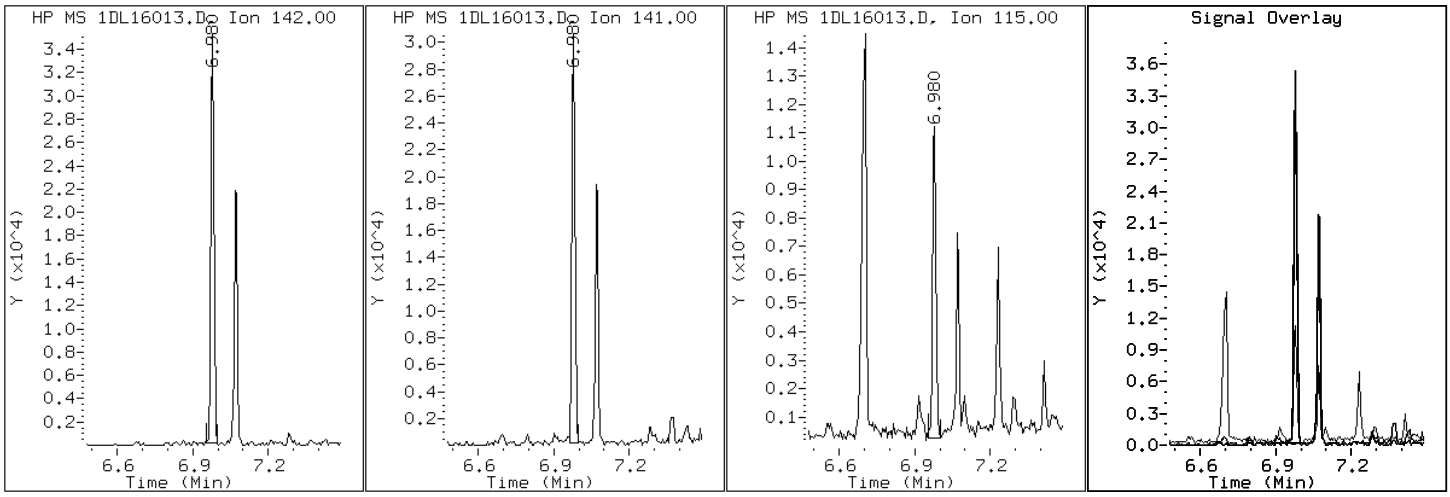
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

3 2-Methylnaphthalene



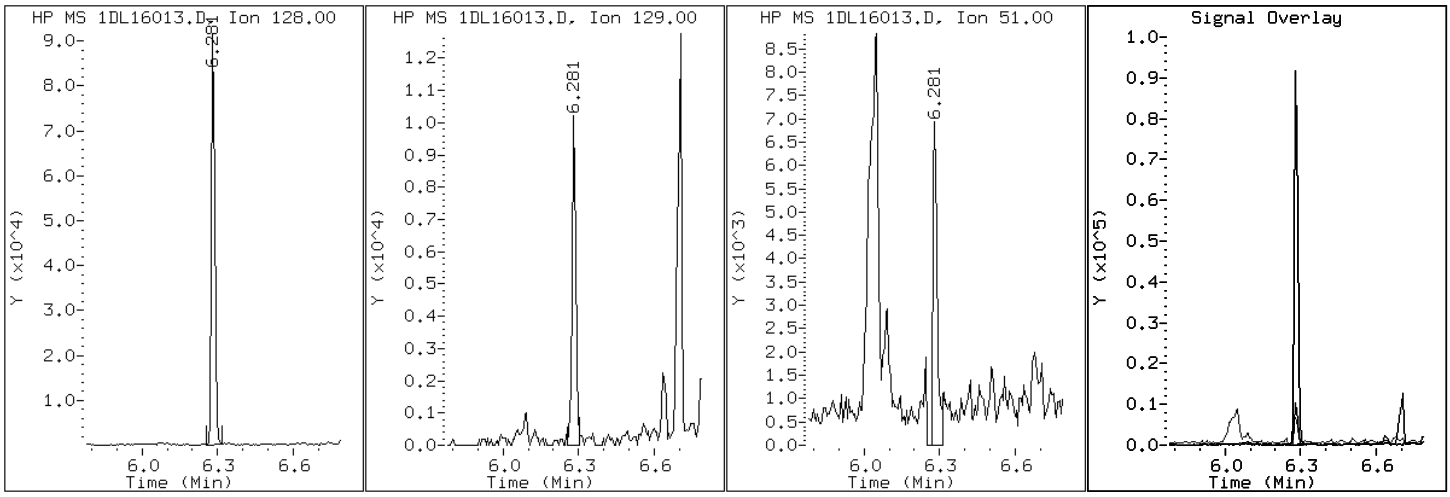
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A Operator: SCC

2 Naphthalene



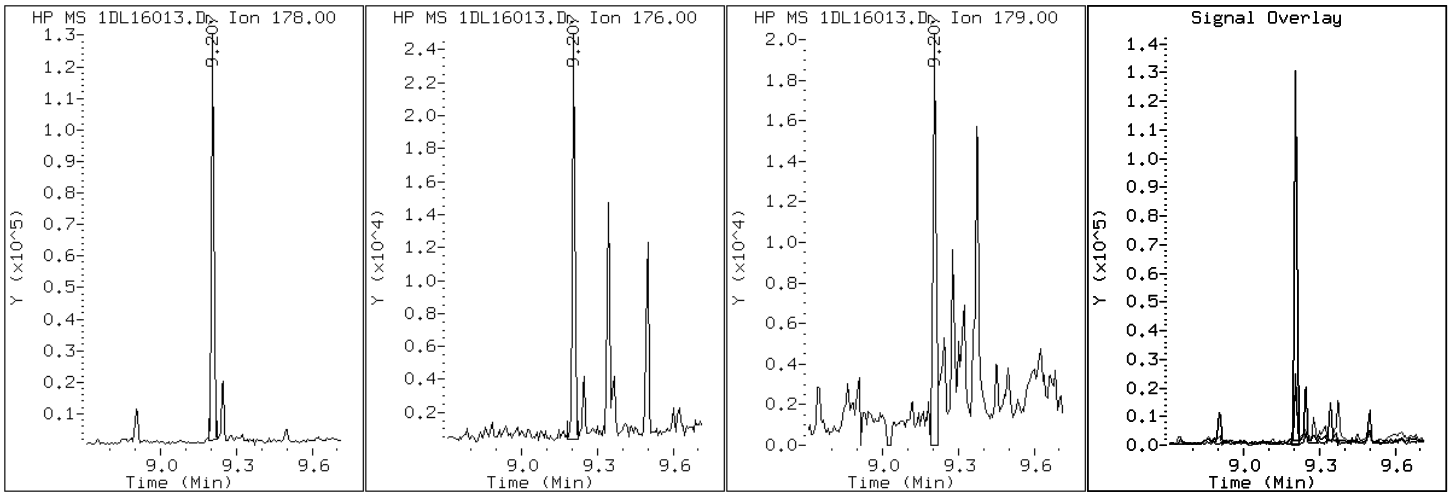
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

10 Phenanthrene



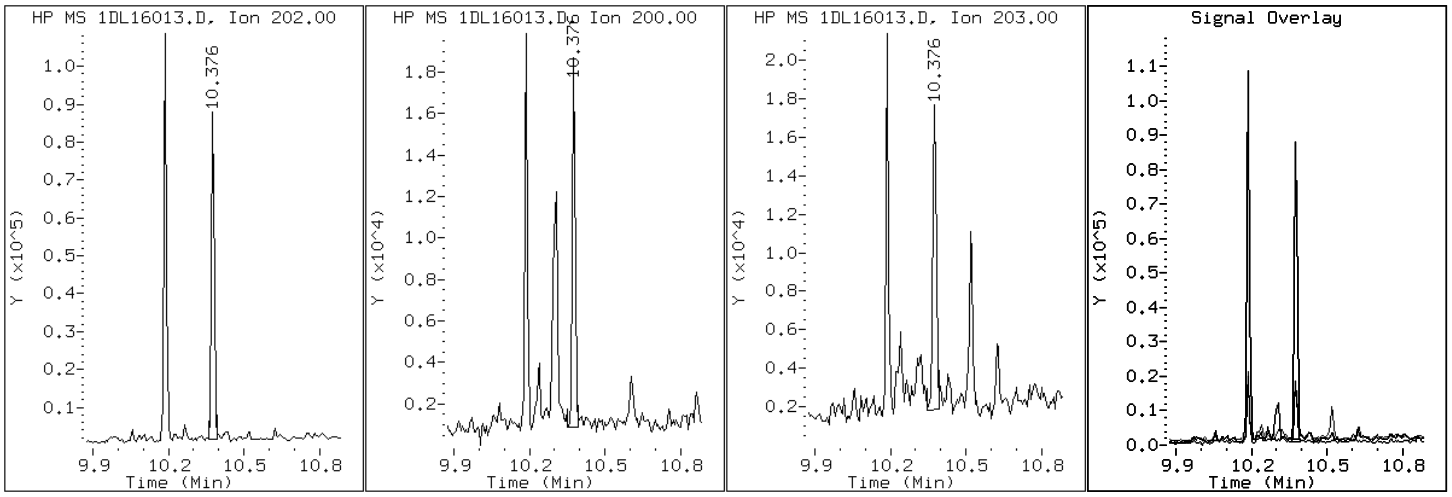
Data File: 1DL16013.D

Date: 16-DEC-2012 13:38

Client ID: FM0025C-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-15-A  Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16013.D
Inj. Date and Time: 16-DEC-2012 13:38
Instrument ID: BSMSD.i
Client ID: FM0025C-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

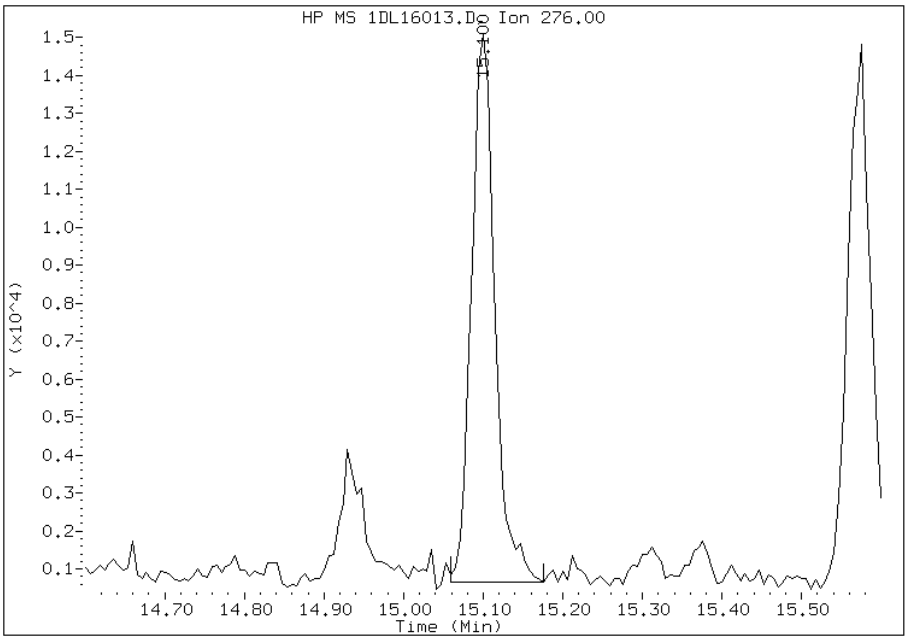
Processing Integration Results

RT: 15.10

Response: 29262

Amount: 0

Conc: 26



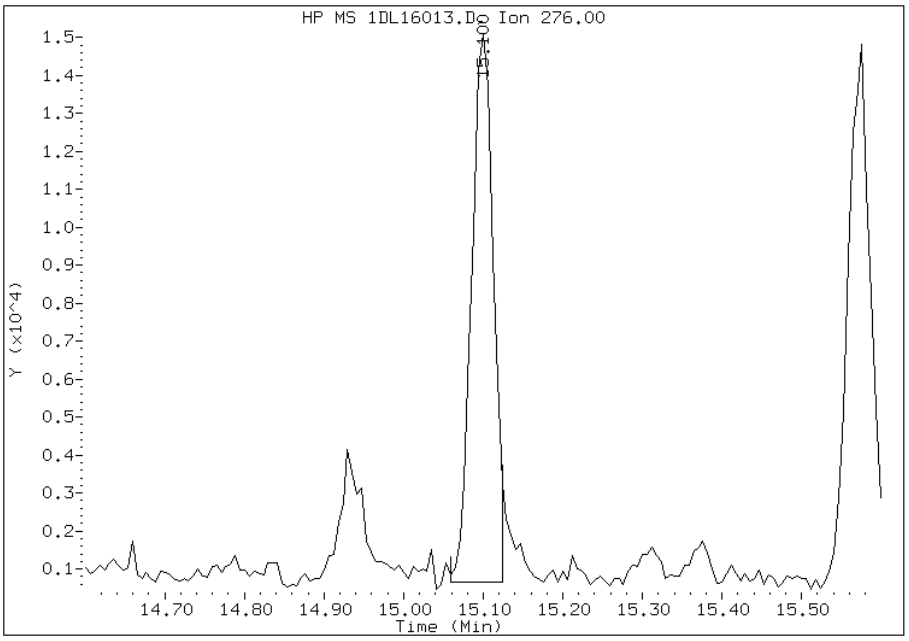

Manual Integration Results

RT: 15.10

Response: 27225

Amount: 0

Conc: 24




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0025D-CS-SP | Lab Sample ID: 680-85534-16

Matrix: Solid | Lab File ID: 1DL16017.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:49

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.02(g) | Date Analyzed: 12/16/2012 15:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 27 |
| 208-96-8 | Acenaphthylene | 53 | U | 53 | 6.7 |
| 120-12-7 | Anthracene | 11 | U | 11 | 5.6 |
| 56-55-3 | Benzo[a]anthracene | 10 | J | 11 | 5.2 |
| 50-32-8 | Benzo[a]pyrene | 8.5 | J | 14 | 6.9 |
| 205-99-2 | Benzo[b]fluoranthene | 13 | J | 16 | 8.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 27 | U | 27 | 5.9 |
| 207-08-9 | Benzo[k]fluoranthene | 11 | U | 11 | 4.8 |
| 218-01-9 | Chrysene | 20 | | 12 | 6.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 27 | U | 27 | 5.5 |
| 206-44-0 | Fluoranthene | 23 | J | 27 | 5.3 |
| 86-73-7 | Fluorene | 27 | U | 27 | 5.5 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 27 | U | 27 | 9.5 |
| 90-12-0 | 1-Methylnaphthalene | 6.3 | J | 53 | 5.9 |
| 91-57-6 | 2-Methylnaphthalene | 53 | U | 53 | 9.5 |
| 91-20-3 | Naphthalene | 19 | J | 53 | 5.9 |
| 85-01-8 | Phenanthrene | 26 | | 11 | 5.2 |
| 129-00-0 | Pyrene | 14 | J | 27 | 4.9 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 51 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16017.D
Lab Smp Id: 680-85534-A-16-A  Client Smp ID: FM0025D-CS-SP
Inj Date  : 16-DEC-2012 15:56
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-16-A
Misc Info : 680-85534-A-16-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.020 | Weight Extracted |
| M | 25.074 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.262 | 6.265 | (1.000) | 4036532 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.931 | 7.934 | (1.000) | 2380004 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.194 | 9.191 | (1.000) | 3775488 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.500 | 9.503 | (1.033) | 306485 | 5.14672 | 460 |
| * 17 Chrysene-d12 | 240 | 11.562 | 11.553 | (1.000) | 3710937 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.483 | 13.463 | (1.000) | 3660215 | 40.0000 | |
| 2 Naphthalene | 128 | 6.286 | 6.283 | (1.004) | 22058 | 0.21045 | 19 |
| 3 2-Methylnaphthalene | 142 | 6.979 | 6.982 | (1.114) | 6645 | 0.09819 | 8.7 |
| 4 1-Methylnaphthalene | 142 | 7.073 | 7.076 | (1.129) | 4547 | 0.07087 | 6.3 |
| 5 Acenaphthylene | 152 | 7.802 | 7.805 | (0.984) | 3973 | 0.03822 | 3.4 |
| 8 Fluorene | 166 | 8.395 | 8.398 | (1.059) | 4455 | 0.06001 | 5.3 |
| 10 Phenanthrene | 178 | 9.206 | 9.209 | (1.001) | 31444 | 0.29107 | 26 |
| 11 Anthracene | 178 | 9.247 | 9.250 | (1.006) | 6678 | 0.06166 | 5.5 |
| 12 Carbazole | 167 | 9.382 | 9.379 | (1.020) | 4625 | 0.04824 | 4.3(Q) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 14 Fluoranthene | 202 | 10.187 | 10.190 | (1.108) | 28571 | 0.26169 | 23 |
| 15 Pyrene | 202 | 10.375 | 10.378 | (0.897) | 18396 | 0.15543 | 14 |
| 16 Benzo(a)anthracene | 228 | 11.550 | 11.530 | (0.999) | 11476 | 0.11459 | 10(MH) |
| 18 Chrysene | 228 | 11.579 | 11.583 | (1.002) | 23885 | 0.22719 | 20(M) |
| 19 Benzo(b)fluoranthene | 252 | 12.901 | 12.893 | (0.957) | 13504 | 0.15032 | 13 |
| 20 Benzo(k)fluoranthene | 252 | 12.943 | 12.940 | (0.960) | 5150 | 0.05174 | 4.6(H) |
| 21 Benzo(a)pyrene | 252 | 13.371 | 13.363 | (0.992) | 8536 | 0.09523 | 8.5 |
| 24 Dibenzo(a,h)anthracene | 278 | 15.134 | 15.149 | (1.122) | 3491 | 0.04023 | 3.6(M) |
| 25 Benzo(g,h,i)perylene | 276 | 15.604 | 15.590 | (1.157) | 4957 | 0.05446 | 4.8 |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16017.D

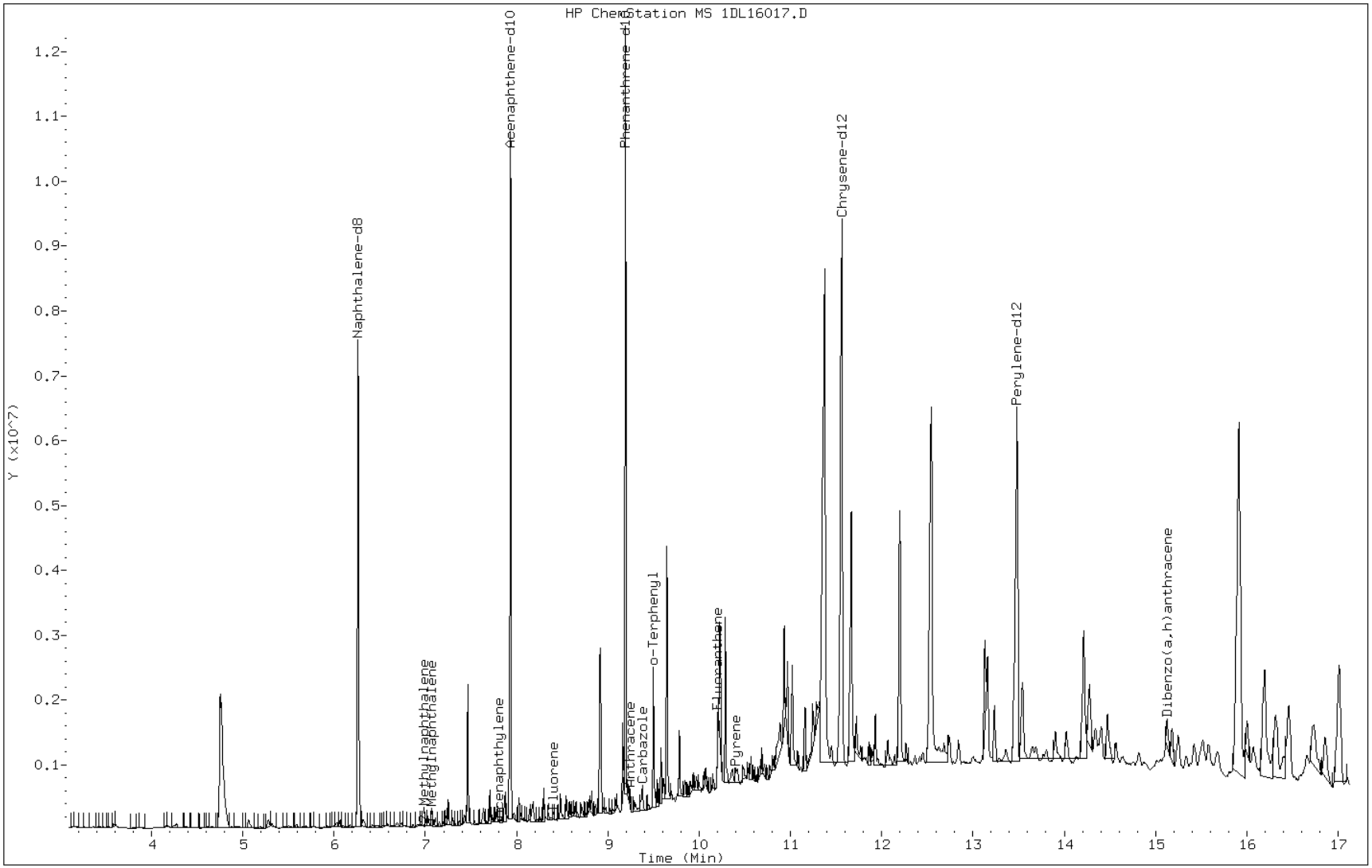
Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A

Operator: SCC



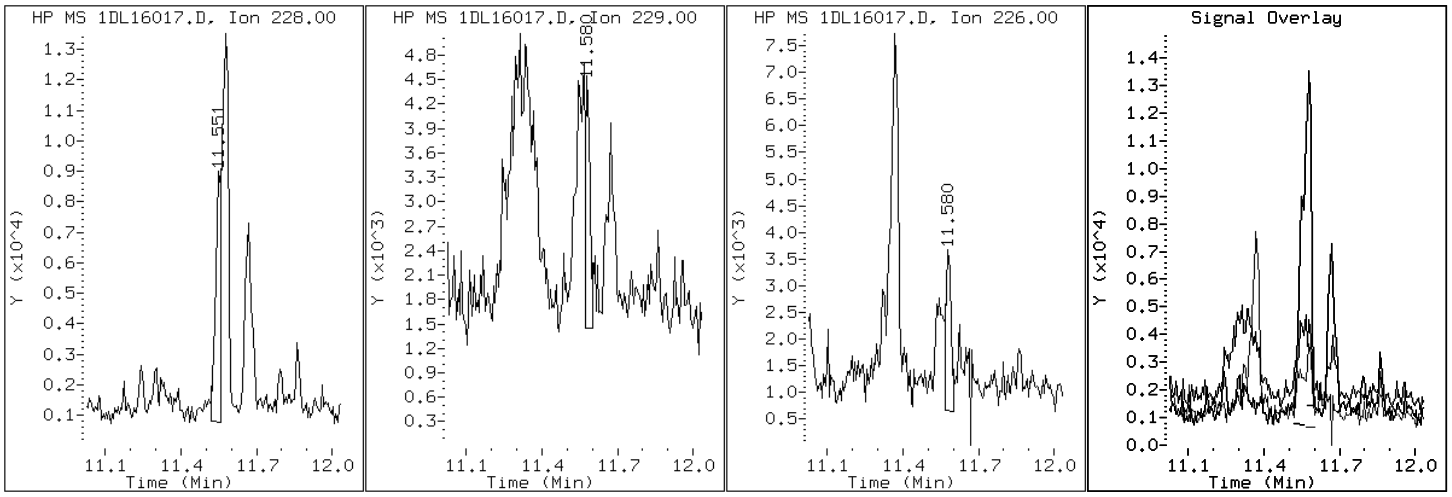
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A  Operator: SCC

16 Benzo(a)anthracene



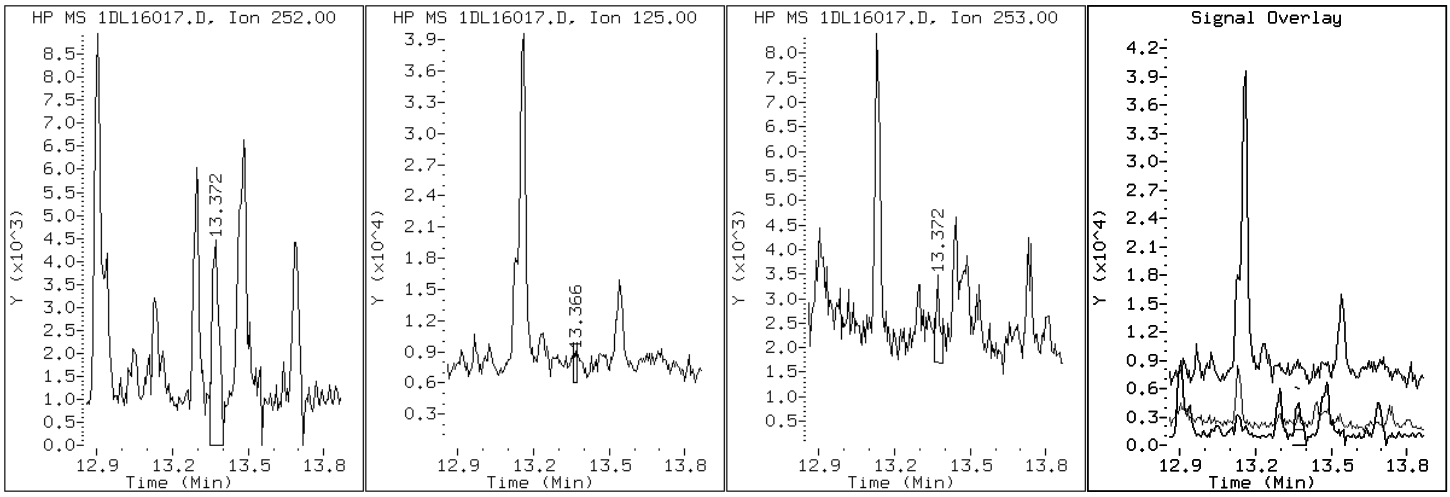
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A Operator: SCC

21 Benzo(a)pyrene



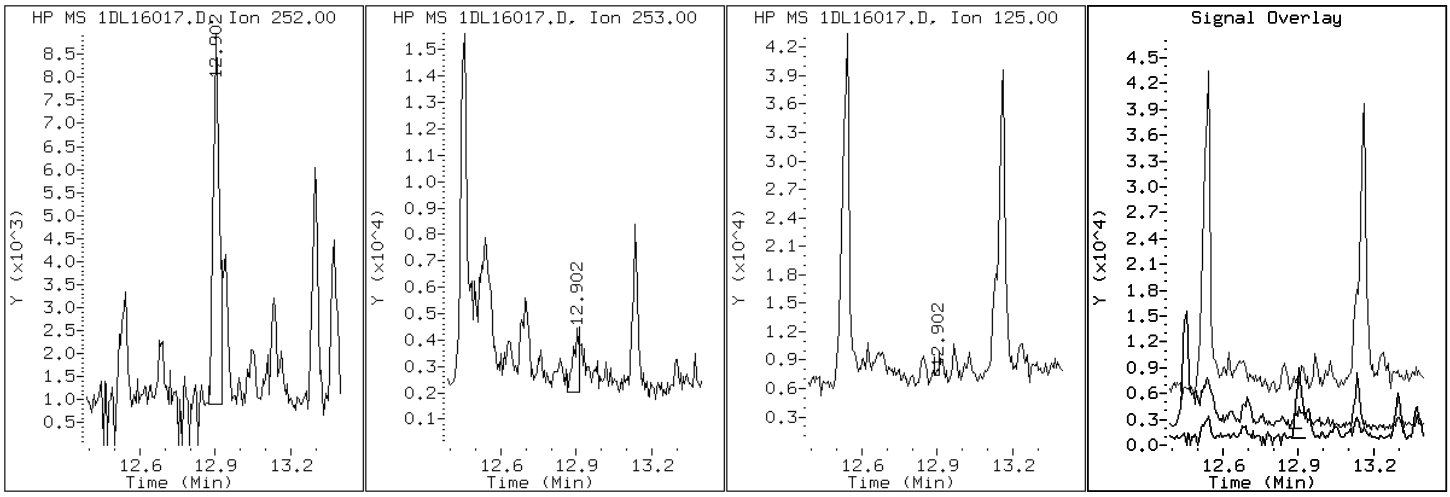
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A  Operator: SCC

19 Benzo(b)fluoranthene



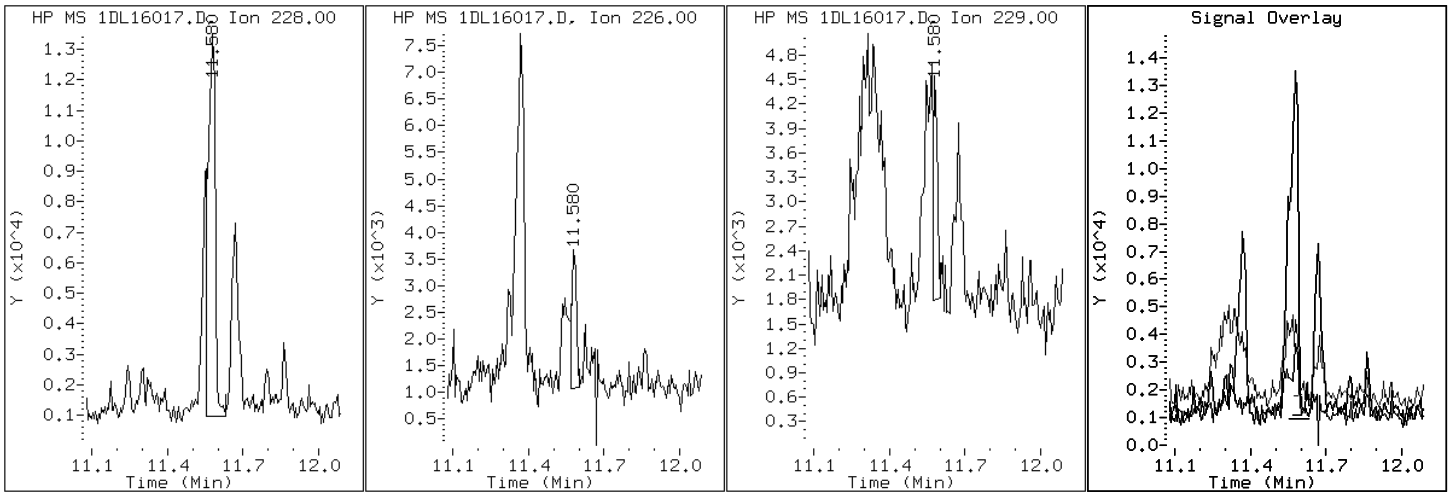
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A  Operator: SCC

18 Chrysene



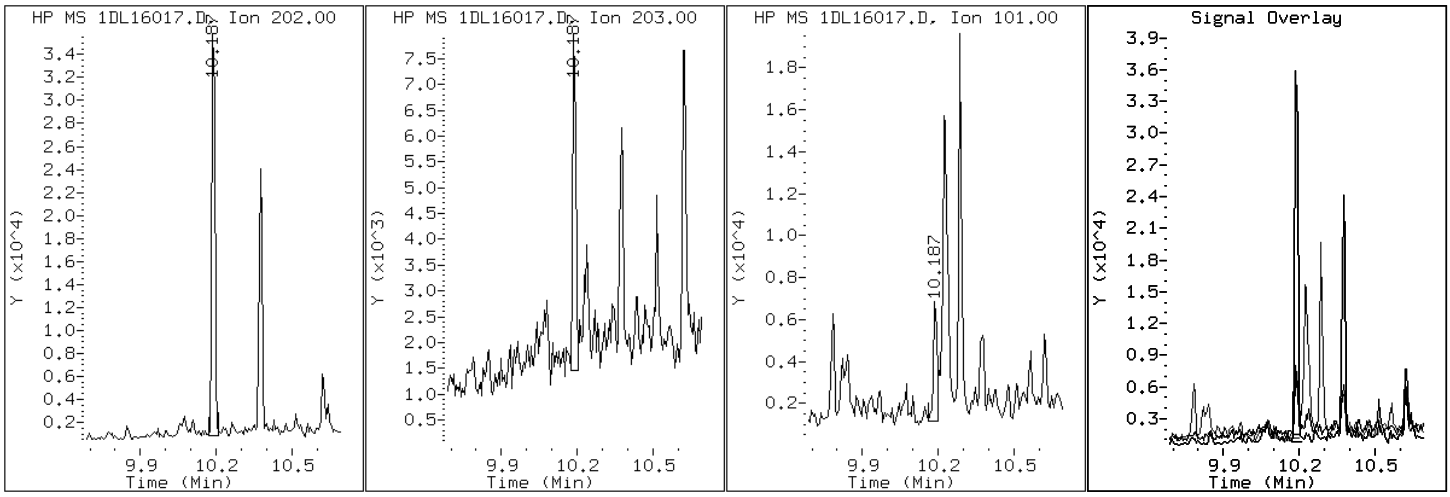
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A  Operator: SCC

14 Fluoranthene



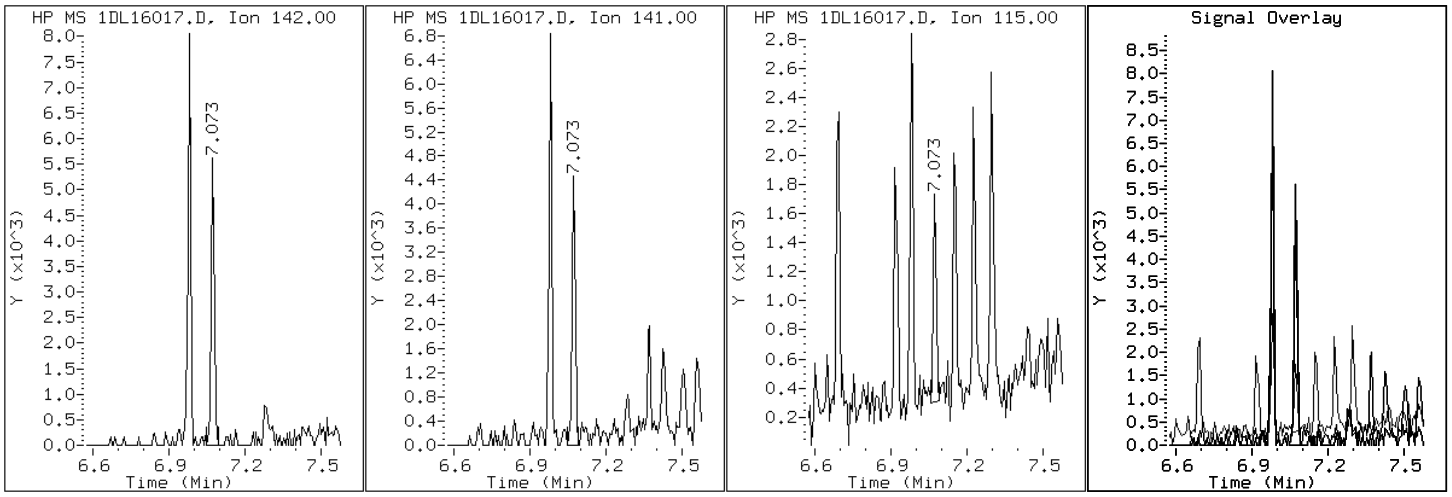
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A  Operator: SCC

4 1-Methylnaphthalene



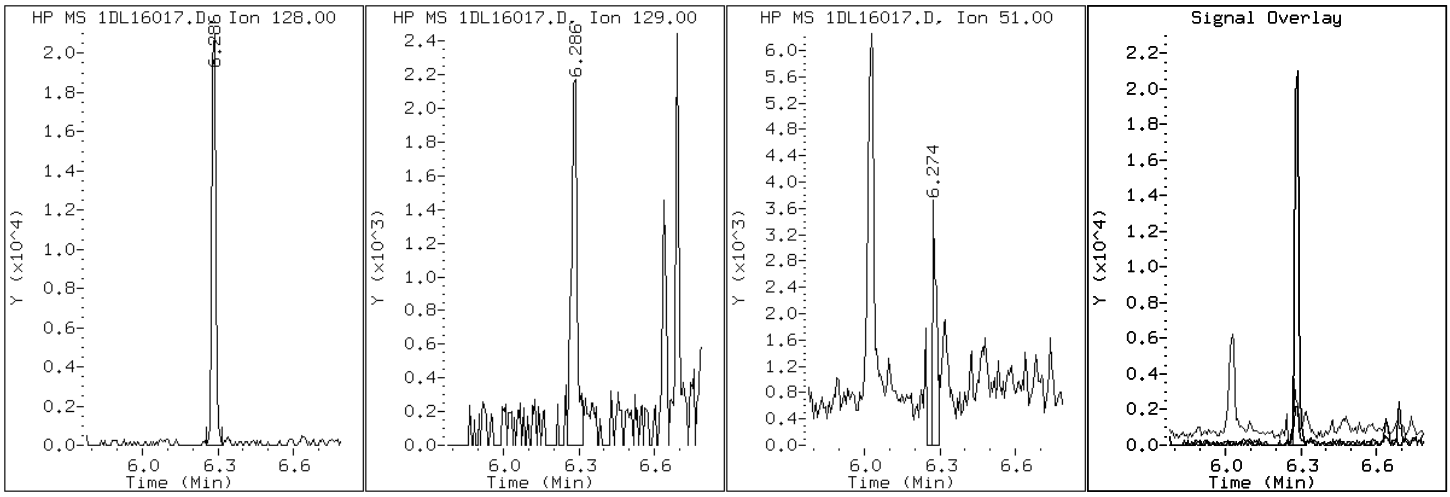
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A  Operator: SCC

2 Naphthalene



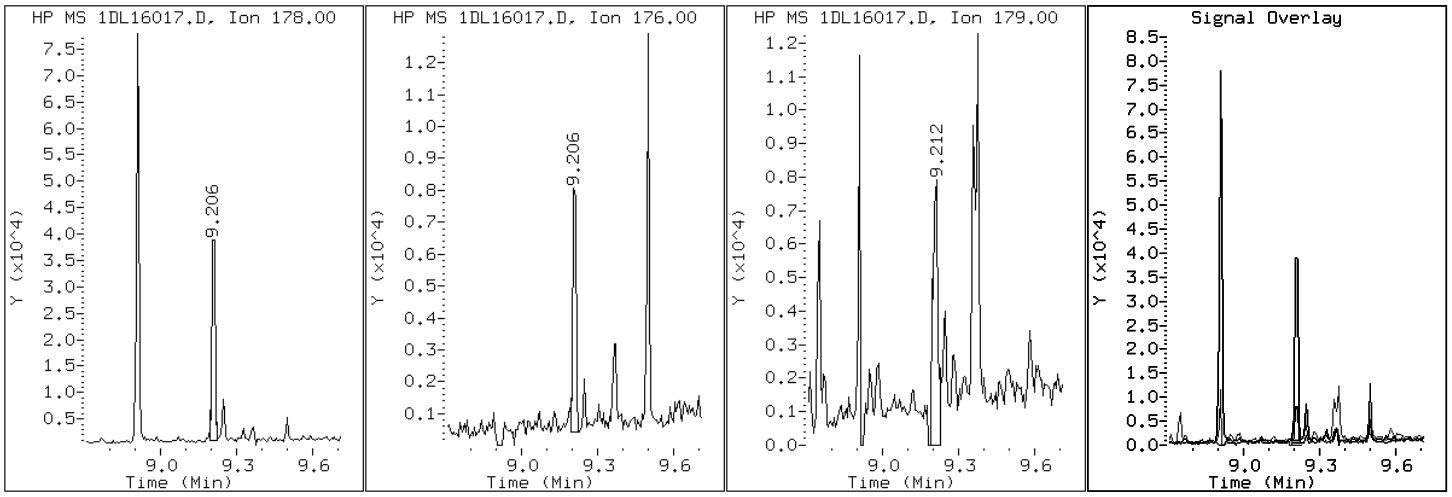
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A Operator: SCC

10 Phenanthrene



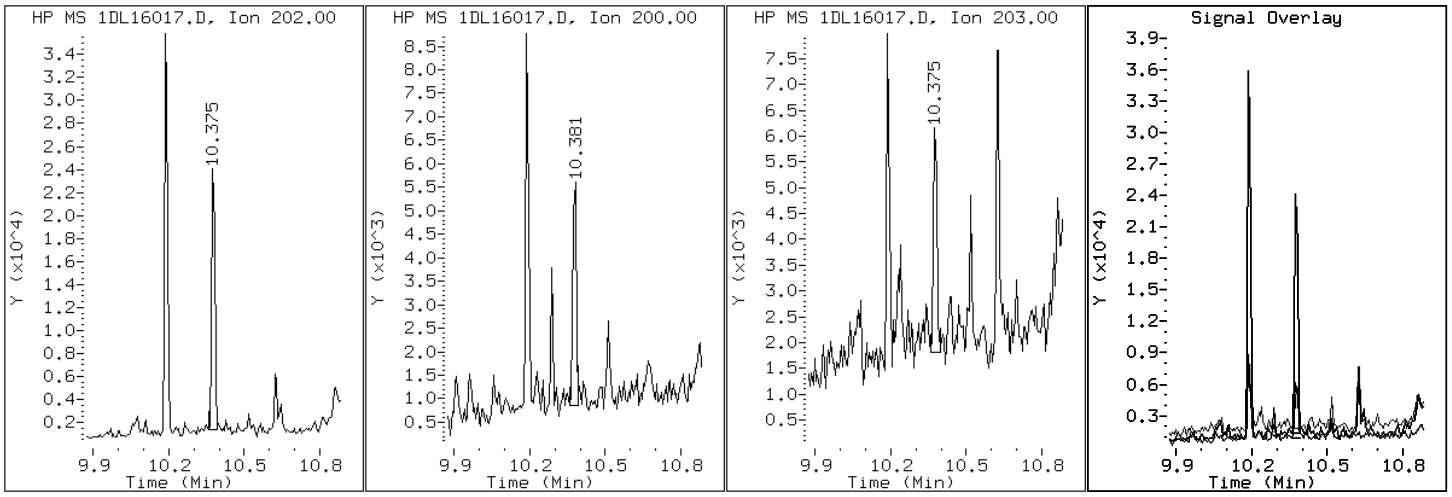
Data File: 1DL16017.D

Date: 16-DEC-2012 15:56

Client ID: FM0025D-CS-SP  Instrument: BSMSD.i

Sample Info: 680-85534-A-16-A  Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16017.D
Inj. Date and Time: 16-DEC-2012 15:56
Instrument ID: BSMSD.i
Client ID: FM0025D-CS-SP
Compound: 16 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 12/18/2012

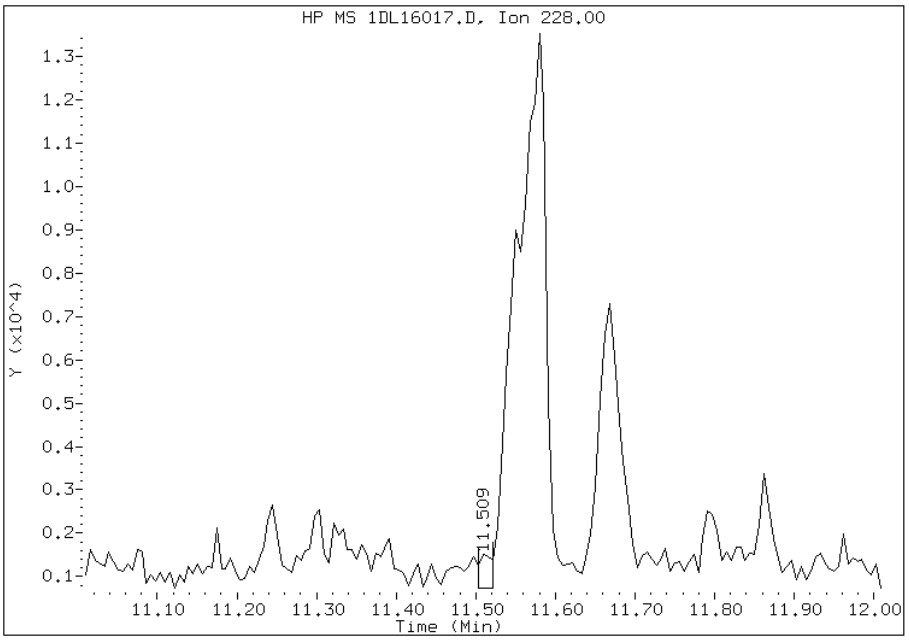
Processing Integration Results

RT: 11.51

Response: 938

Amount: 0

Conc: 1



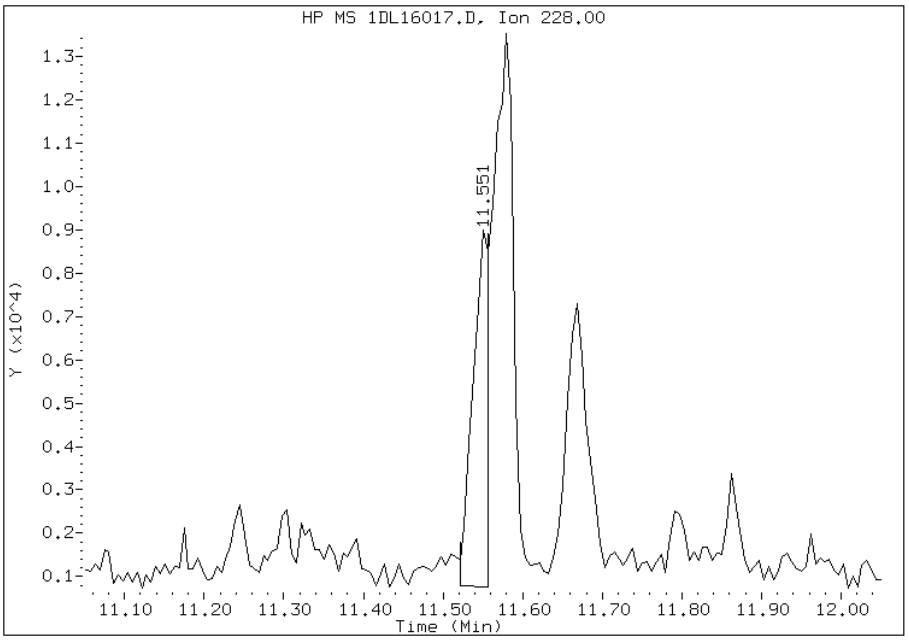

Manual Integration Results

RT: 11.55

Response: 11476

Amount: 0

Conc: 10




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DL16017.D
Inj. Date and Time: 16-DEC-2012 15:56
Instrument ID: BSMSD.i
Client ID: FM0025D-CS-SP
Compound: 18 Chrysene
CAS #: 218-01-9
Report Date: 12/18/2012

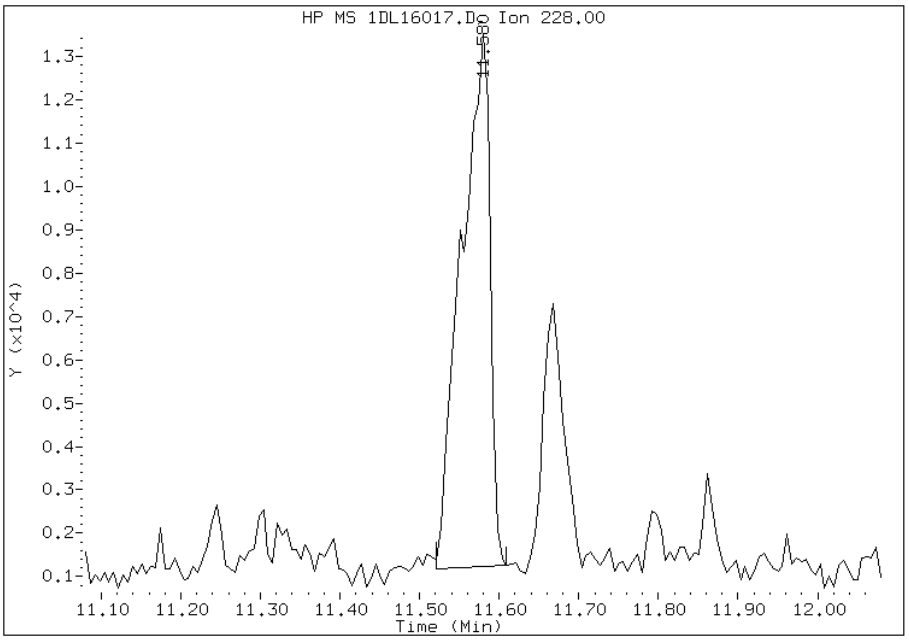
Processing Integration Results

RT: 11.58

Response: 30540

Amount: 0

Conc: 26



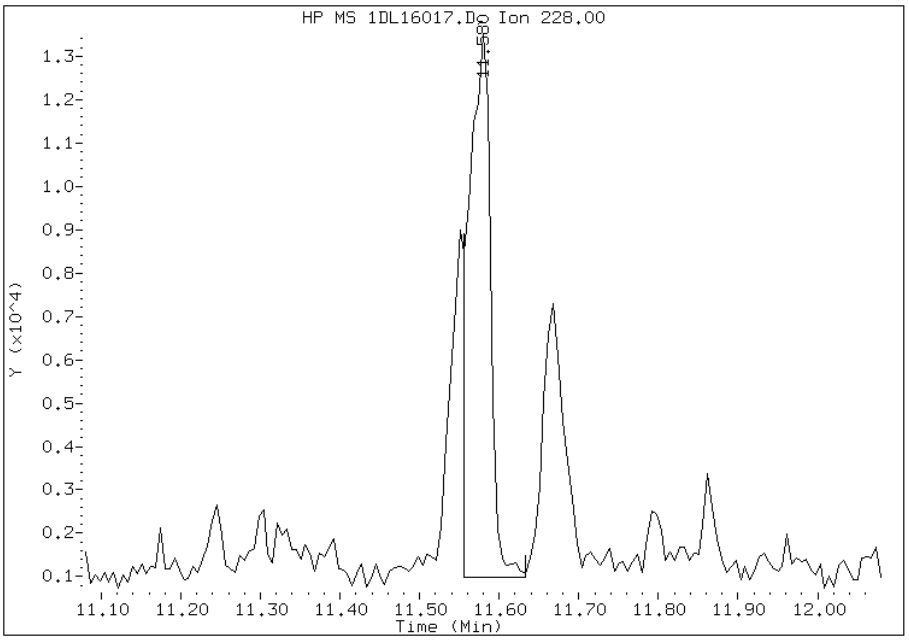

Manual Integration Results

RT: 11.58

Response: 23885

Amount: 0

Conc: 20




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16017.D
Inj. Date and Time: 16-DEC-2012 15:56
Instrument ID: BSMSD.i
Client ID: FM0025D-CS-SP
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/18/2012

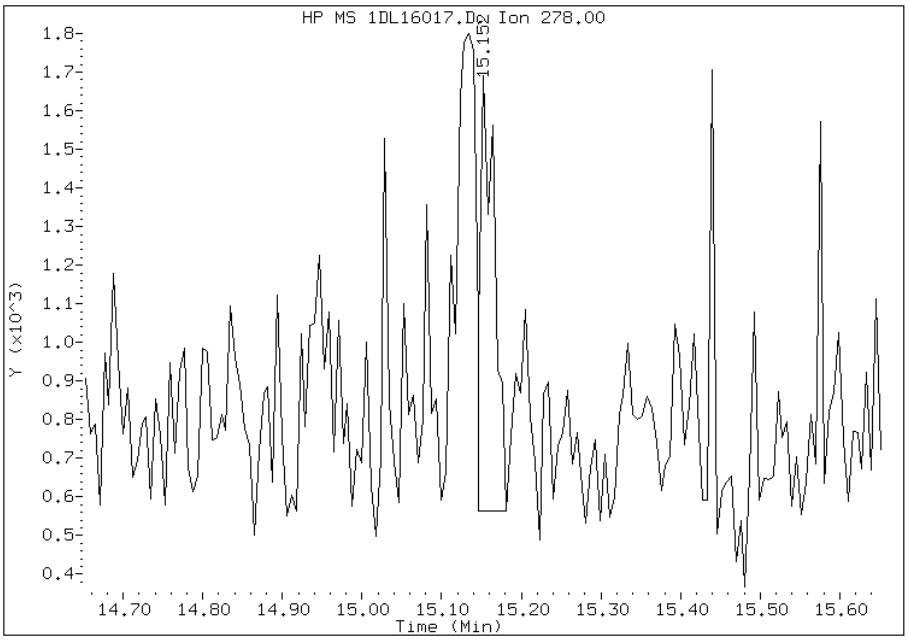
Processing Integration Results

RT: 15.15

Response: 1437

Amount: 0

Conc: 1



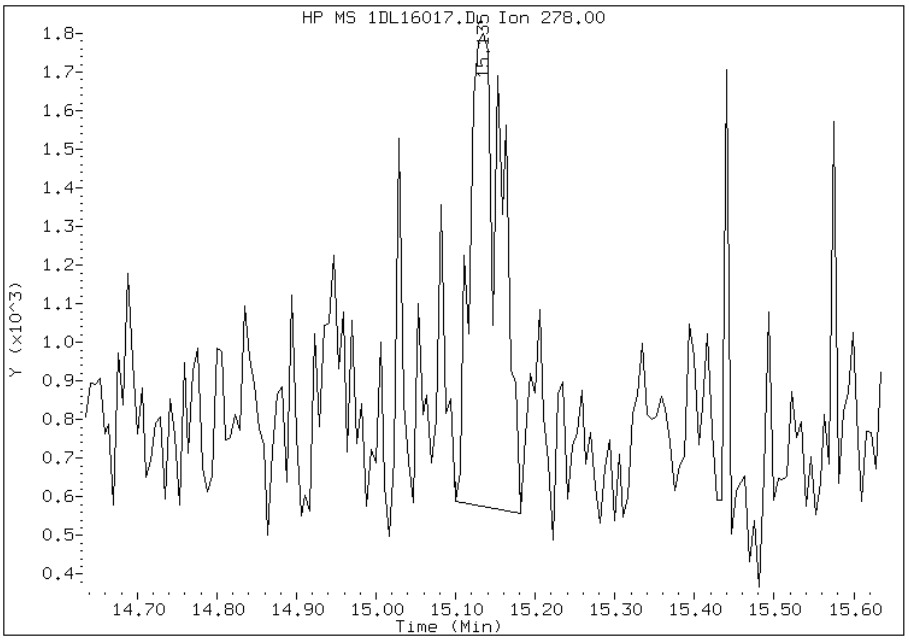

Manual Integration Results

RT: 15.13

Response: 3491

Amount: 0

Conc: 4




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:48
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0025E-CS | Lab Sample ID: 680-85534-17

Matrix: Solid | Lab File ID: 1DL16018.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:50

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 14.96(g) | Date Analyzed: 12/16/2012 16:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 37.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 160 | U | 160 | 32 |
| 208-96-8 | Acenaphthylene | 64 | U | 64 | 8.0 |
| 120-12-7 | Anthracene | 10 | J | 13 | 6.7 |
| 56-55-3 | Benzo[a]anthracene | 13 | | 13 | 6.2 |
| 50-32-8 | Benzo[a]pyrene | 17 | U | 17 | 8.3 |
| 205-99-2 | Benzo[b]fluoranthene | 10 | J | 20 | 9.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 8.3 | J | 32 | 7.0 |
| 207-08-9 | Benzo[k]fluoranthene | 13 | U | 13 | 5.8 |
| 218-01-9 | Chrysene | 27 | | 14 | 7.2 |
| 53-70-3 | Dibenz(a,h)anthracene | 32 | U | 32 | 6.6 |
| 206-44-0 | Fluoranthene | 52 | | 32 | 6.4 |
| 86-73-7 | Fluorene | 7.3 | J | 32 | 6.6 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 32 | U | 32 | 11 |
| 90-12-0 | 1-Methylnaphthalene | 18 | J | 64 | 7.0 |
| 91-57-6 | 2-Methylnaphthalene | 27 | J | 64 | 11 |
| 91-20-3 | Naphthalene | 260 | | 64 | 7.0 |
| 85-01-8 | Phenanthrene | 78 | | 13 | 6.2 |
| 129-00-0 | Pyrene | 41 | | 32 | 5.9 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 41 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16018.D
Lab Smp Id: 680-85534-A-17-A  Client Smp ID: FM0025E-CS
Inj Date : 16-DEC-2012 16:19
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-17-A
Misc Info : 680-85534-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.960 | Weight Extracted |
| M | 37.393 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.266 | 6.265 | (1.000) | 4015942 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.935 | 7.934 | (1.000) | 2360953 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.198 | 9.191 | (1.000) | 3744742 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.503 | 9.503 | (1.033) | 241717 | 4.09242 | 440 |
| * 17 Chrysene-d12 | 240 | 11.571 | 11.553 | (1.000) | 3784813 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.504 | 13.463 | (1.000) | 3396506 | 40.0000 | |
| 2 Naphthalene | 128 | 6.284 | 6.283 | (1.003) | 250436 | 2.40164 | 260 |
| 3 2-Methylnaphthalene | 142 | 6.983 | 6.982 | (1.114) | 17131 | 0.25444 | 27 |
| 4 1-Methylnaphthalene | 142 | 7.077 | 7.076 | (1.129) | 10940 | 0.17140 | 18 |
| 8 Fluorene | 166 | 8.399 | 8.398 | (1.058) | 5059 | 0.06870 | 7.3(Q) |
| 10 Phenanthrene | 178 | 9.210 | 9.209 | (1.001) | 78700 | 0.73449 | 78 |
| 11 Anthracene | 178 | 9.251 | 9.250 | (1.006) | 10519 | 0.09792 | 10 |
| 12 Carbazole | 167 | 9.386 | 9.379 | (1.020) | 28289 | 0.29747 | 32(Q) |
| 14 Fluoranthene | 202 | 10.191 | 10.190 | (1.108) | 52818 | 0.48774 | 52 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Pyrene | 202 | 10.385 | 10.378 | (0.897) | 46731 | 0.38713 | 41 |
| 16 Benzo(a)anthracene | 228 | 11.542 | 11.530 | (0.997) | 12466 | 0.12204 | 13(QM) |
| 18 Chrysene | 228 | 11.589 | 11.583 | (1.002) | 27544 | 0.25688 | 27(M) |
| 19 Benzo(b)fluoranthene | 252 | 12.923 | 12.893 | (0.957) | 7845 | 0.09410 | 10 |
| 20 Benzo(k)fluoranthene | 252 | 12.952 | 12.940 | (0.959) | 3468 | 0.03755 | 4.0(QH) |
| 21 Benzo(a)pyrene | 252 | 13.393 | 13.363 | (0.992) | 5918 | 0.07115 | 7.6(Q) |
| 25 Benzo(g,h,i)perylene | 276 | 15.637 | 15.590 | (1.158) | 6553 | 0.07759 | 8.3(MH) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16018.D

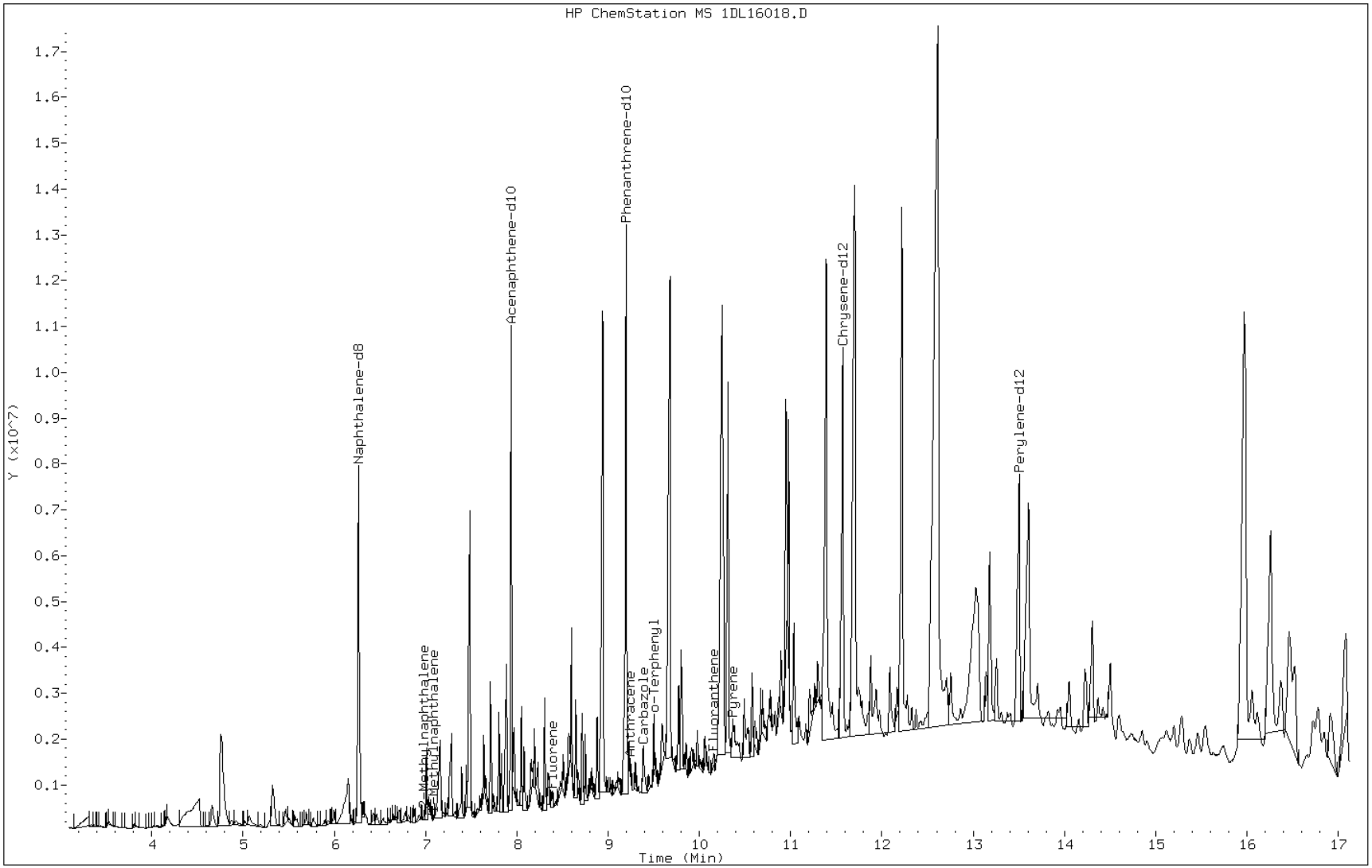
Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A

Operator: SCC



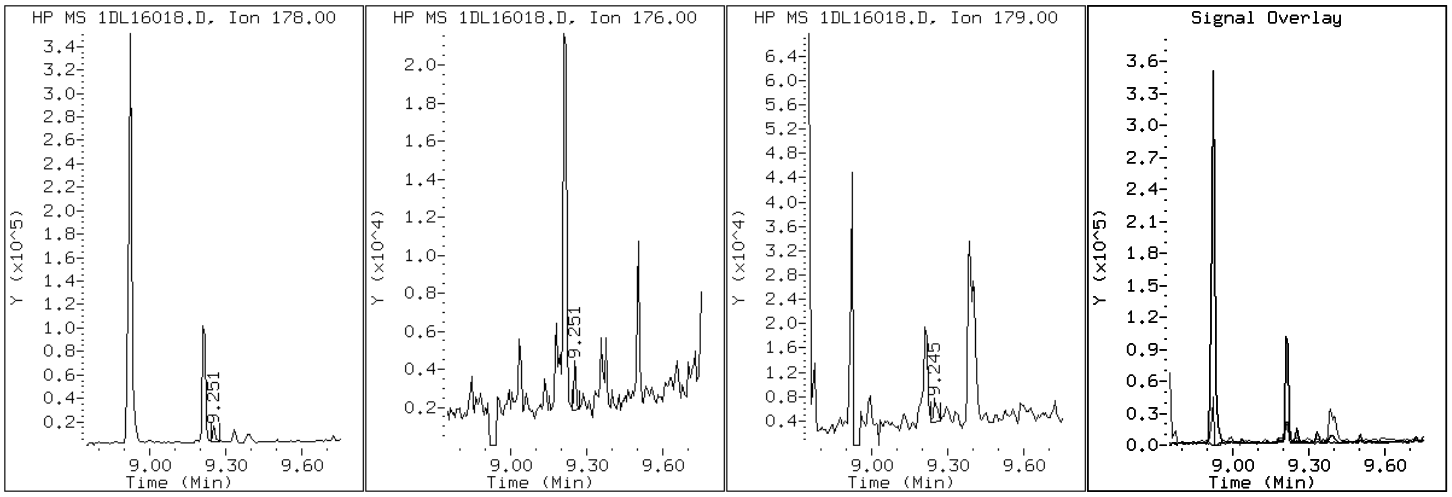
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

11 Anthracene



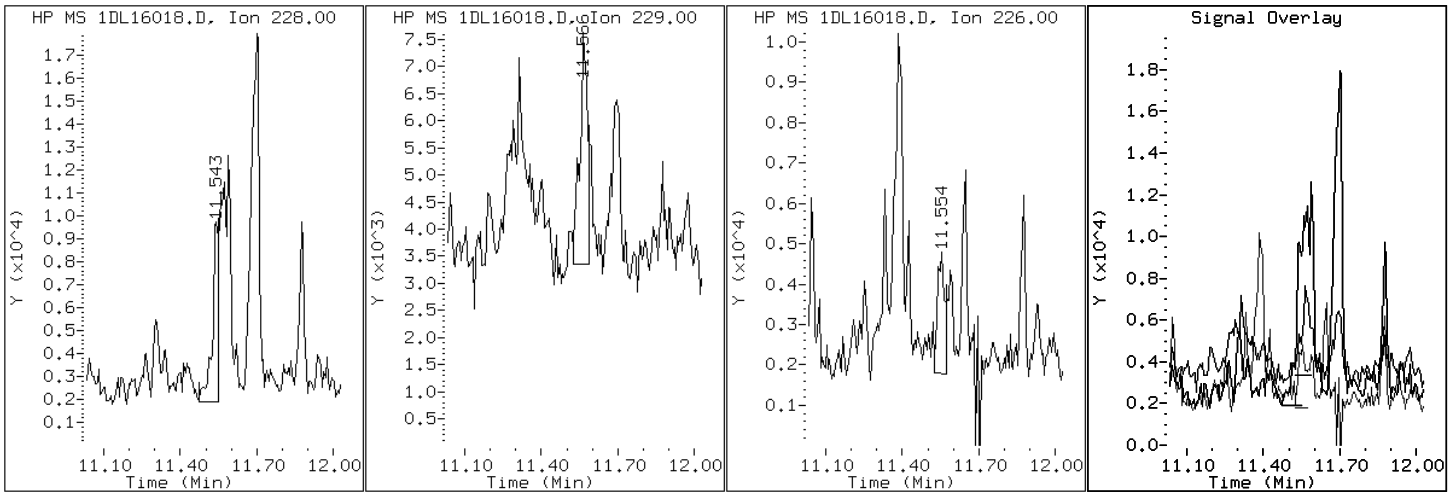
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

16 Benzo(a)anthracene



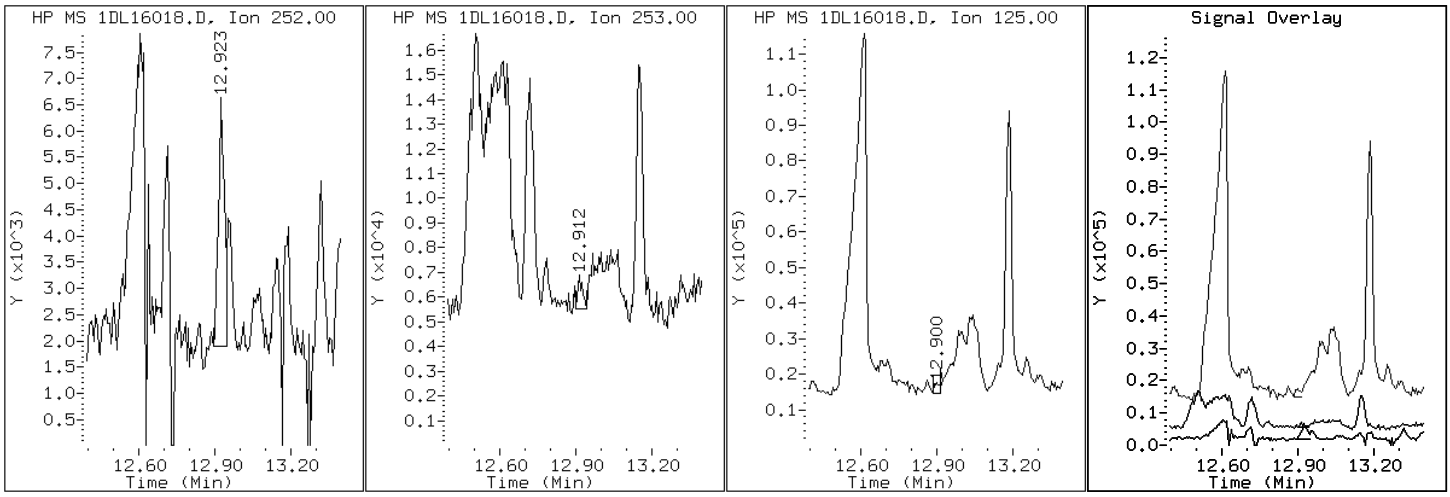
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

19 Benzo(b)fluoranthene



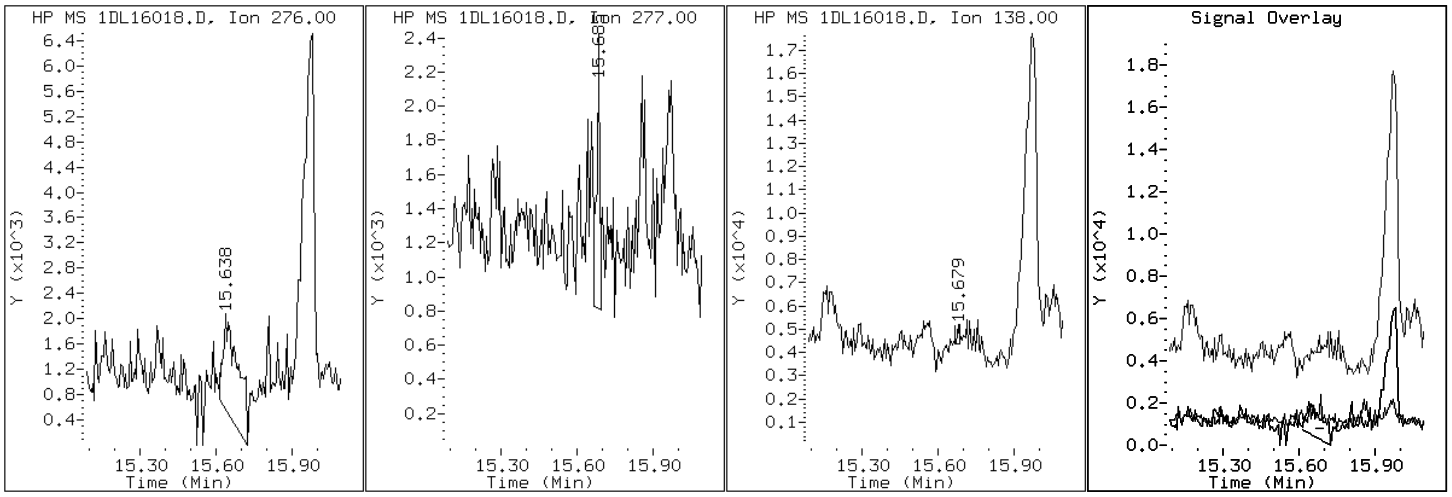
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

25 Benzo(g,h,i)perylene



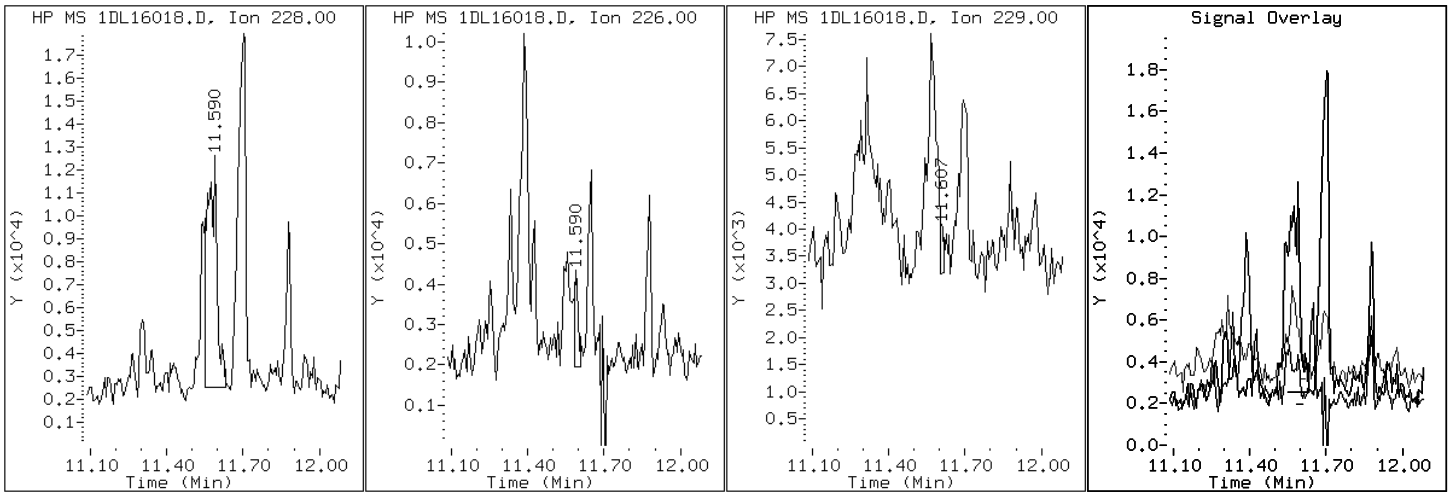
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

18 Chrysene



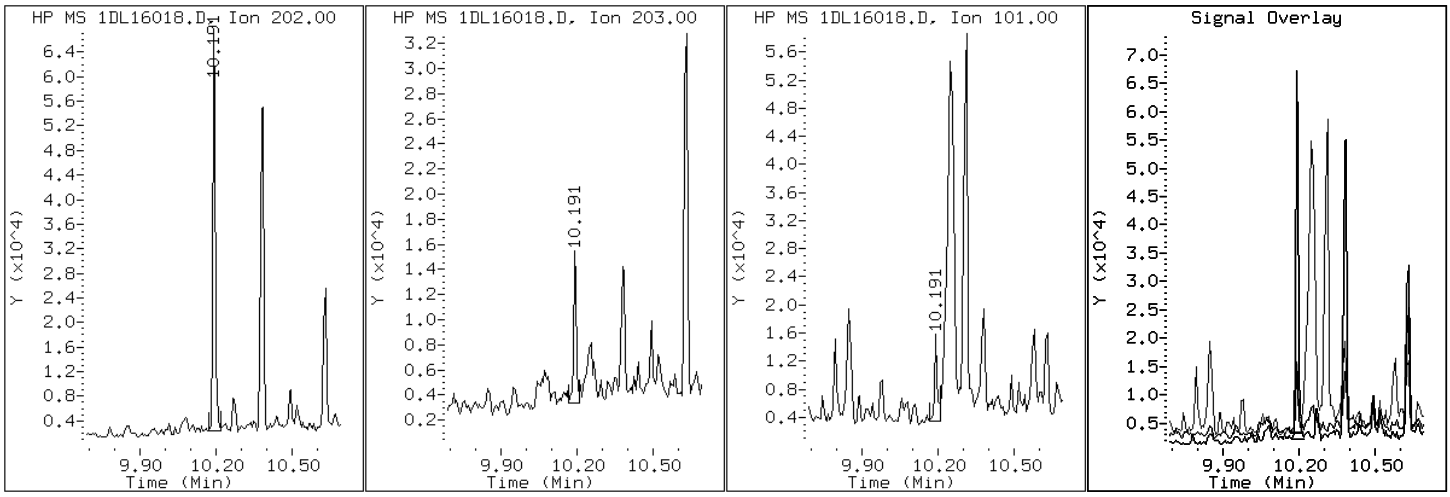
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

14 Fluoranthene



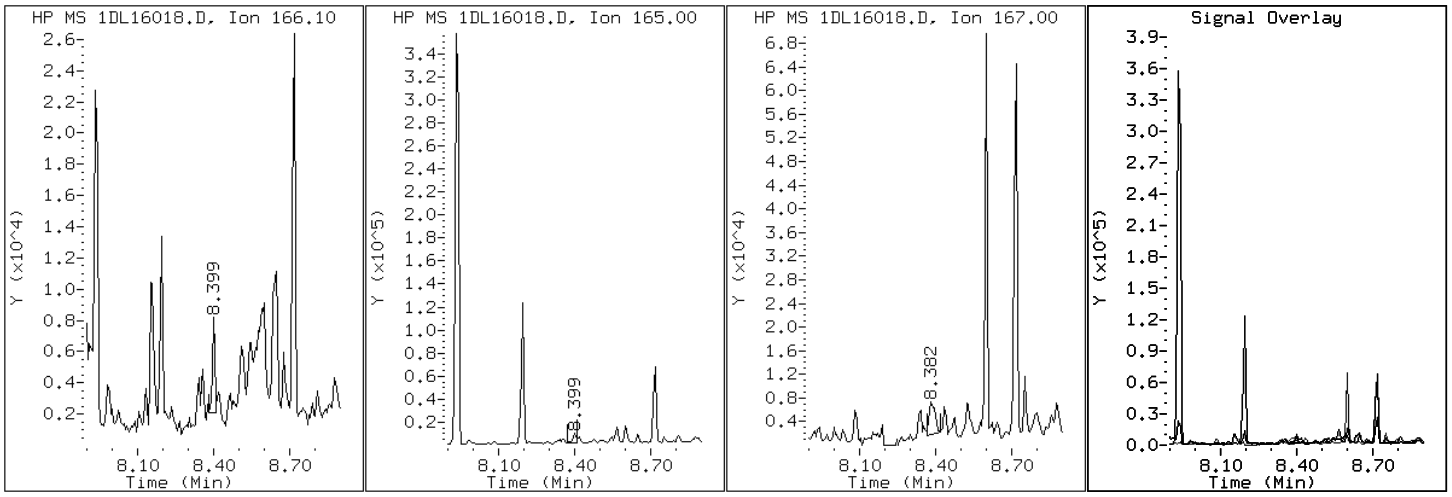
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

8 Fluorene



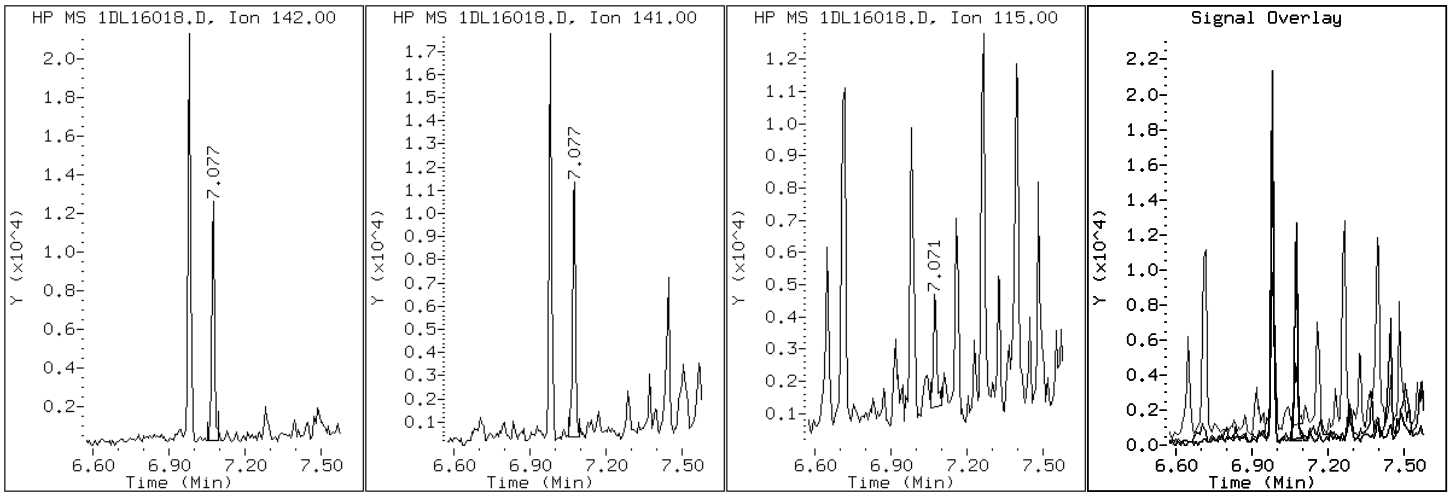
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

4 1-Methylnaphthalene



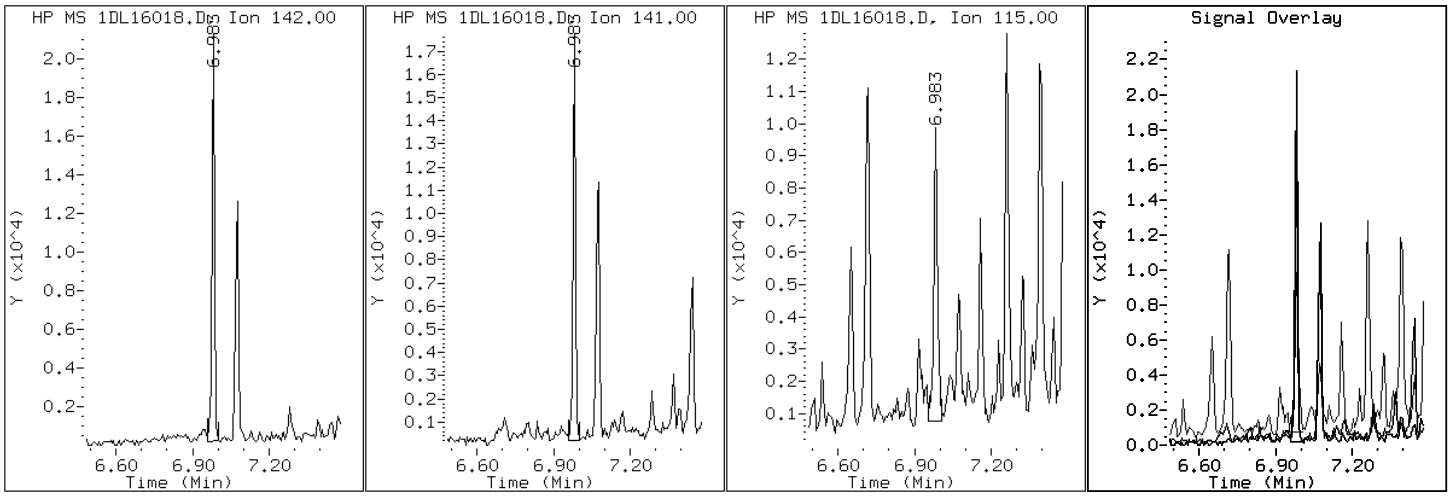
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

3 2-Methylnaphthalene



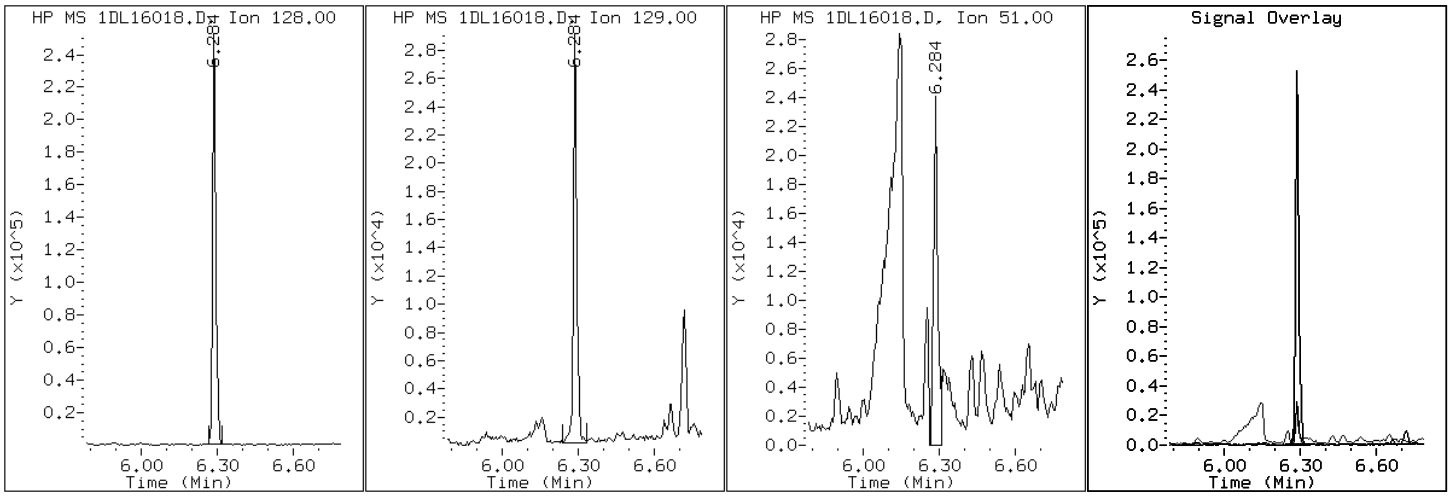
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

2 Naphthalene



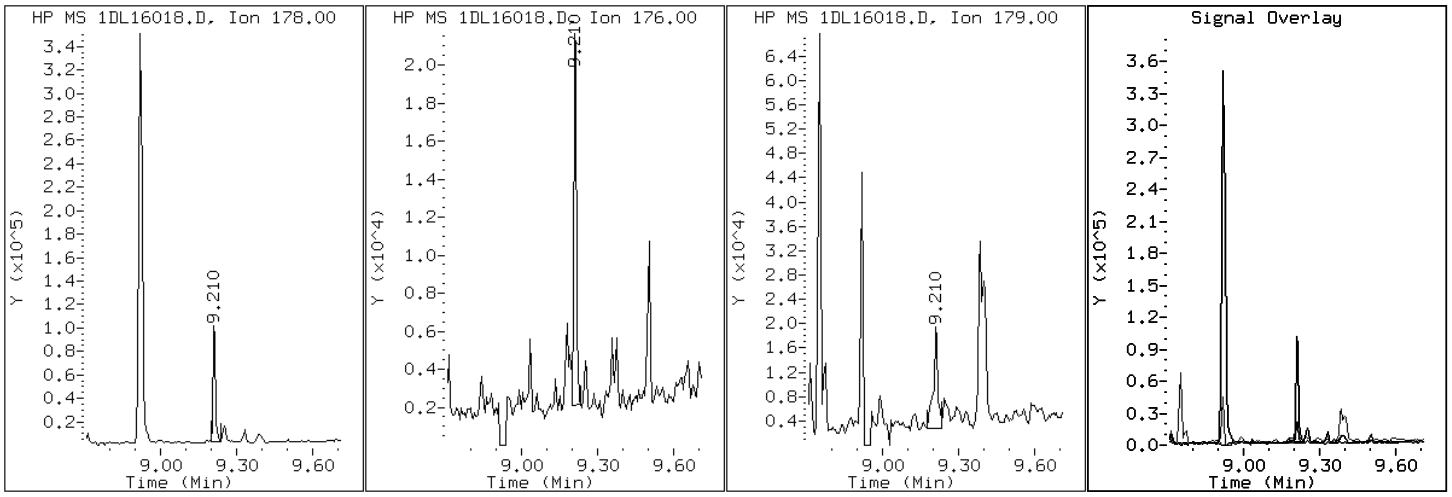
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

10 Phenanthrene



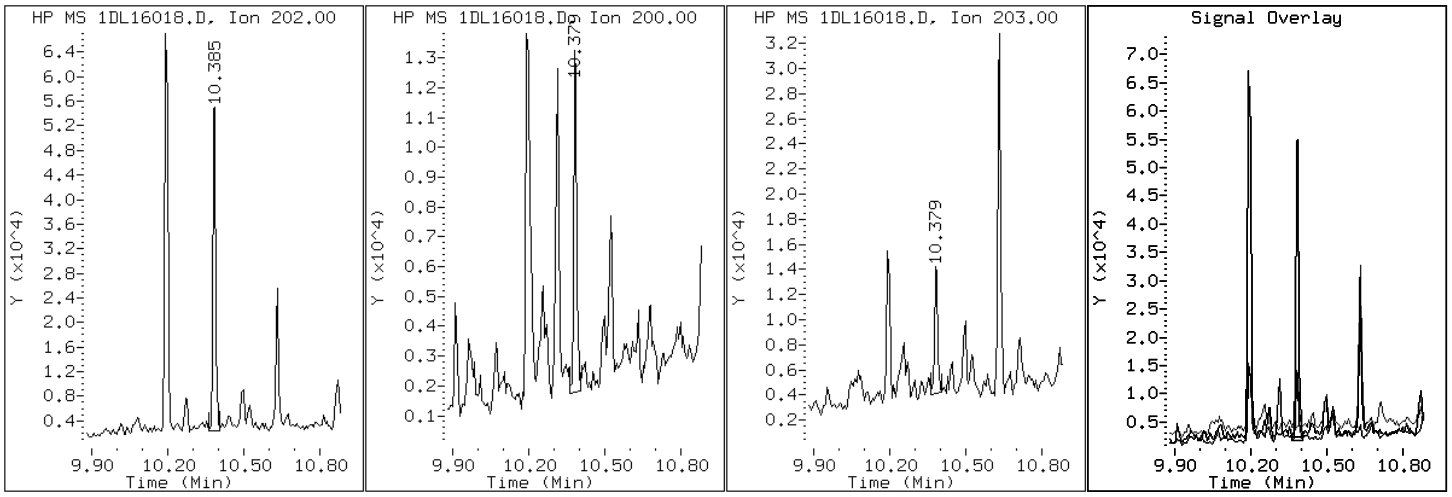
Data File: 1DL16018.D

Date: 16-DEC-2012 16:19

Client ID: FM0025E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-17-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16018.D
Inj. Date and Time: 16-DEC-2012 16:19
Instrument ID: BSMSD.i
Client ID: FM0025E-CS
Compound: 16 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 12/18/2012

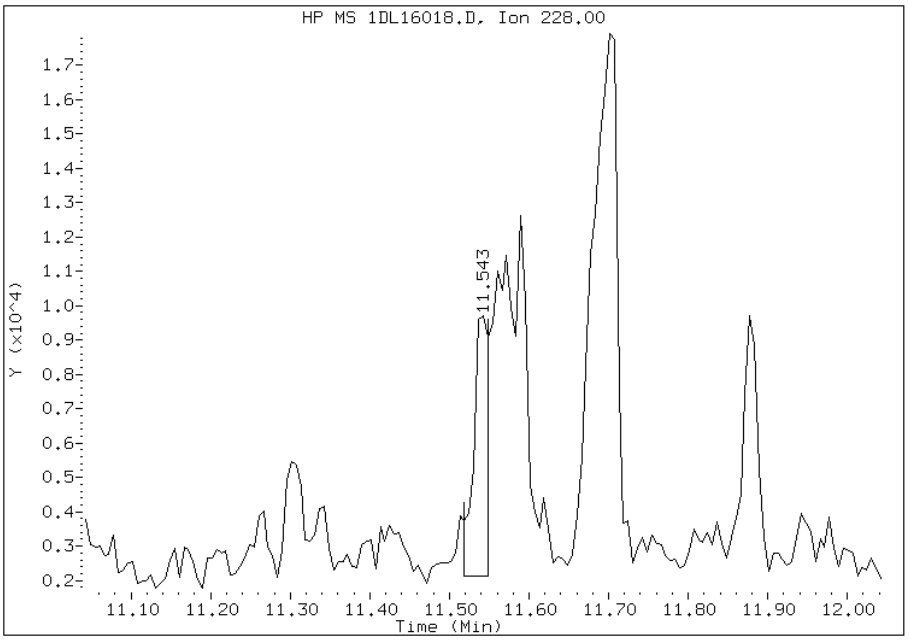
Processing Integration Results

RT: 11.54

Response: 10045

Amount: 0

Conc: 10



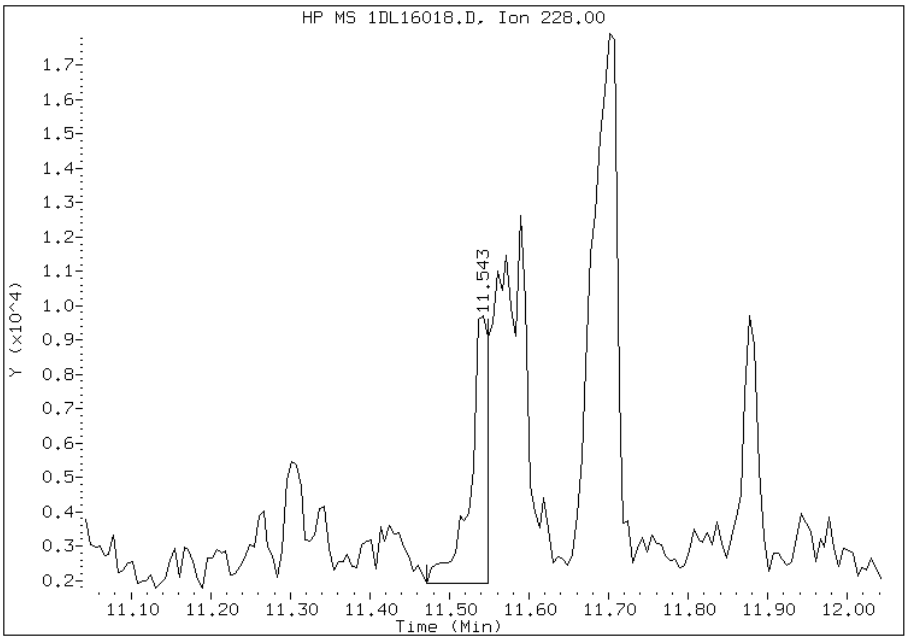

Manual Integration Results

RT: 11.54

Response: 12466

Amount: 0

Conc: 13




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16018.D
Inj. Date and Time: 16-DEC-2012 16:19
Instrument ID: BSMSD.i
Client ID: FM0025E-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

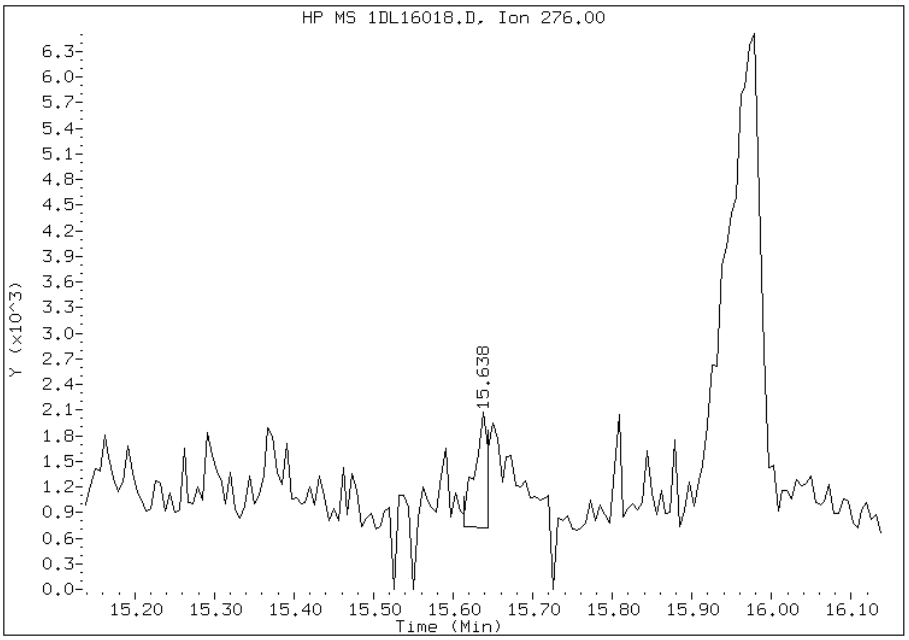
Processing Integration Results

RT: 15.64

Response: 1553

Amount: 0

Conc: 2



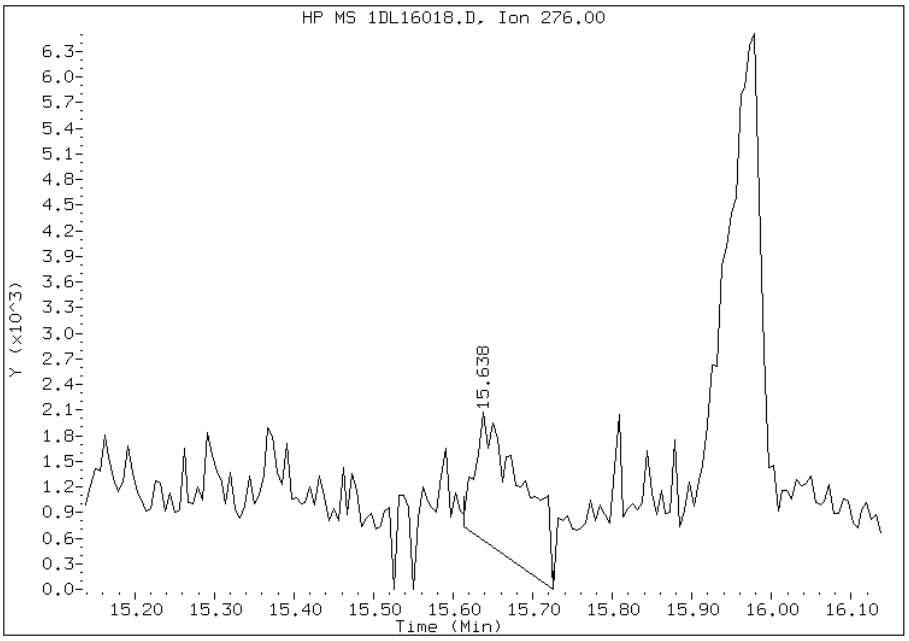

Manual Integration Results

RT: 15.64

Response: 6553

Amount: 0

Conc: 8




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16018.D
Inj. Date and Time: 16-DEC-2012 16:19
Instrument ID: BSMSD.i
Client ID: FM0025E-CS
Compound: 18 Chrysene
CAS #: 218-01-9
Report Date: 12/18/2012

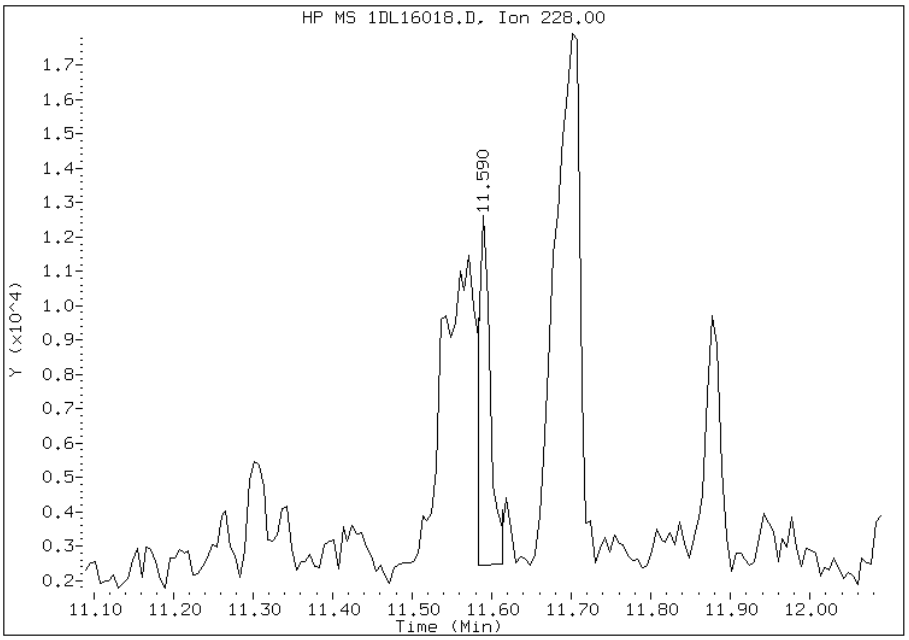
Processing Integration Results

RT: 11.59

Response: 10351

Amount: 0

Conc: 10



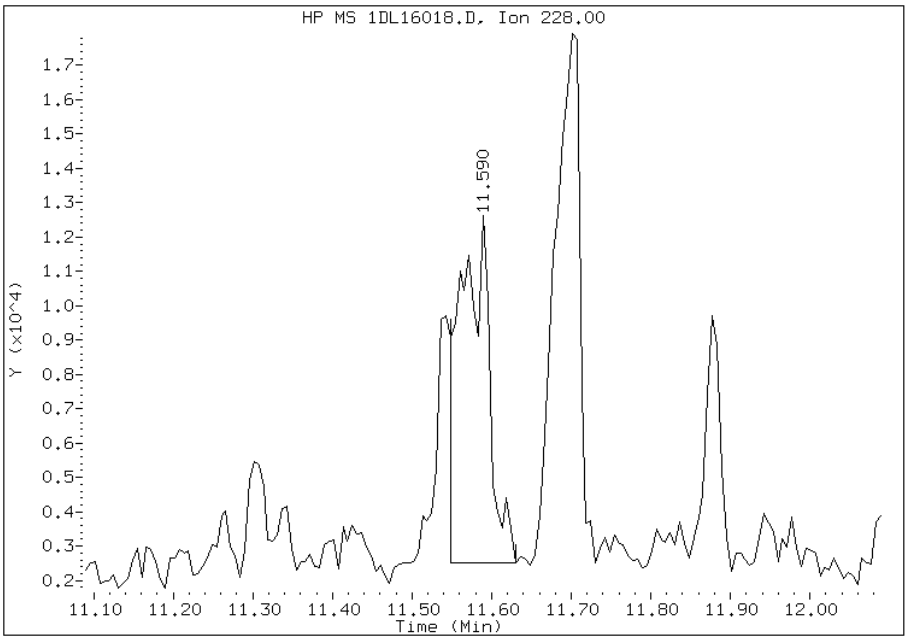

Manual Integration Results

RT: 11.59

Response: 27544

Amount: 0

Conc: 27




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:53
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165A-CS | Lab Sample ID: 680-85534-18

Matrix: Solid | Lab File ID: 1AL14010.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 08:58

Extract. Method: 3546 | Date Extracted: 12/13/2012 17:33

Sample wt/vol: 14.96(g) | Date Analyzed: 12/14/2012 14:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132527 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 23 |
| 208-96-8 | Acenaphthylene | 47 | U | 47 | 5.8 |
| 120-12-7 | Anthracene | 9.8 | U | 9.8 | 4.9 |
| 56-55-3 | Benzo[a]anthracene | 13 | | 9.3 | 4.6 |
| 50-32-8 | Benzo[a]pyrene | 12 | U F | 12 | 6.1 |
| 205-99-2 | Benzo[b]fluoranthene | 8.7 | J | 14 | 7.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 23 | U | 23 | 5.1 |
| 207-08-9 | Benzo[k]fluoranthene | 5.4 | J | 9.3 | 4.2 |
| 218-01-9 | Chrysene | 7.7 | J | 11 | 5.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 23 | U | 23 | 4.8 |
| 206-44-0 | Fluoranthene | 13 | J | 23 | 4.7 |
| 86-73-7 | Fluorene | 23 | U | 23 | 4.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 23 | U | 23 | 8.3 |
| 90-12-0 | 1-Methylnaphthalene | 47 | U | 47 | 5.1 |
| 91-57-6 | 2-Methylnaphthalene | 47 | U | 47 | 8.3 |
| 91-20-3 | Naphthalene | 47 | U | 47 | 5.1 |
| 85-01-8 | Phenanthrene | 11 | | 9.3 | 4.6 |
| 129-00-0 | Pyrene | 10 | J | 23 | 4.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14010.D
Lab Smp Id: 680-85534-A-18-A  Client Smp ID: FM0165A-CS
Inj Date : 14-DEC-2012 14:01
Operator : SCC  Inst ID: BSMA5973.i
Smp Info : 680-85534-a-18-a
Misc Info : 680-85534-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\a-bFASTPAHi-m.m
Meth Date : 14-Dec-2012 12:27 cantins  Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20  Cal File: 1AK26009.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.960 | Weight Extracted |
| M | 14.093 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.758 | 2.757 | (1.000) | 811802 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.805 | 3.799 | (1.000) | 525740 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.809 | 4.809 | (1.000) | 823427 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.087 | 5.086 | (1.058) | 73312 | 6.00462 | 467.2237 |
| * 18 Chrysene-d12 | 240 | 6.903 | 6.897 | (1.000) | 635349 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.030 | 8.025 | (1.000) | 450355 | 40.0000 | |
| 11 Phenanthrene | 178 | 4.825 | 4.825 | (1.003) | 2857 | 0.13507 | 10.5100 |
| 15 Fluoranthene | 202 | 5.728 | 5.727 | (1.191) | 3848 | 0.17298 | 13.4598 |
| 16 Pyrene | 202 | 5.899 | 5.904 | (0.855) | 2457 | 0.13125 | 10.2122(Q) |
| 17 Benzo(a)anthracene | 228 | 6.898 | 6.887 | (0.999) | 2737 | 0.16099 | 12.5264 |
| 19 Chrysene | 228 | 6.914 | 6.919 | (1.002) | 1633 | 0.09889 | 7.6946 |
| 20 Benzo(b)fluoranthene | 252 | 7.731 | 7.725 | (0.963) | 1335 | 0.11191 | 8.7074(QM) |
| 21 Benzo(k)fluoranthene | 252 | 7.742 | 7.747 | (0.964) | 896 | 0.06926 | 5.3895(M) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AL14010.D

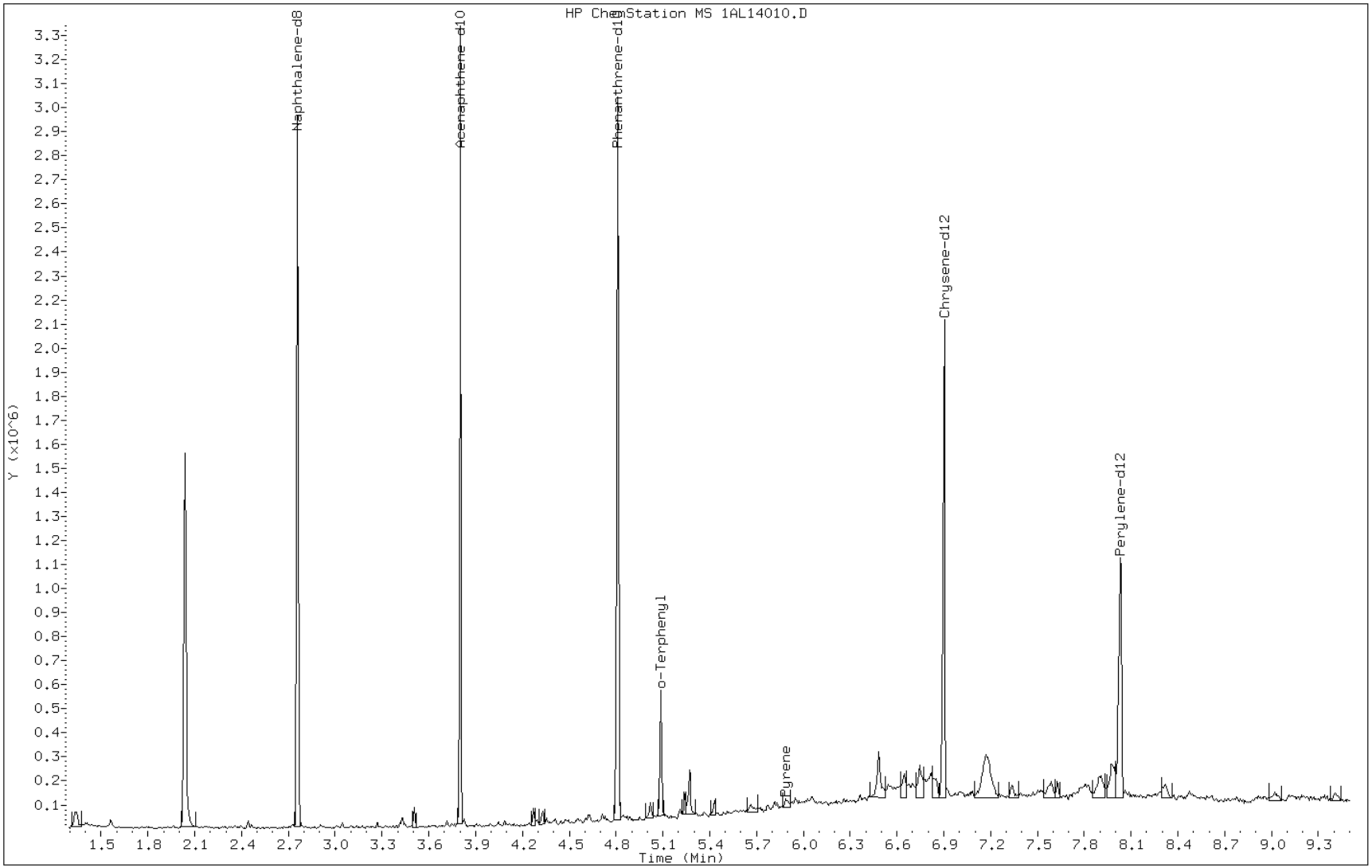
Date: 14-DEC-2012 14:01

Client ID: FM0165A-CS

Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a

Operator: SCC



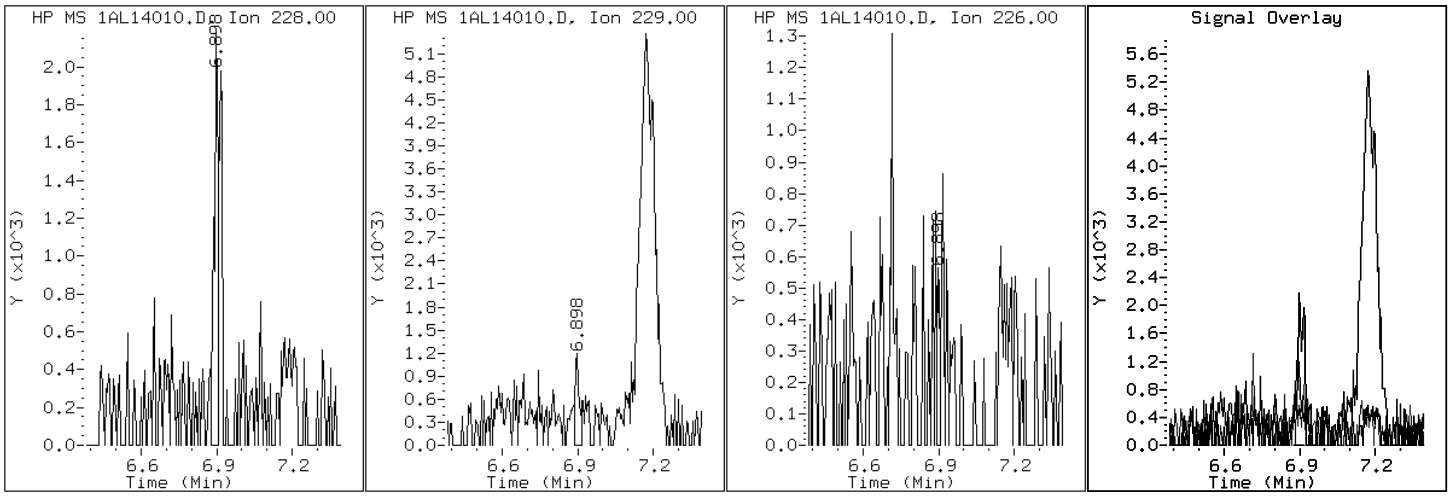
Data File: 1AL14010.D

Date: 14-DEC-2012 14:01

Client ID: FM0165A-CS | Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a | Operator: SCC

17 Benzo(a)anthracene



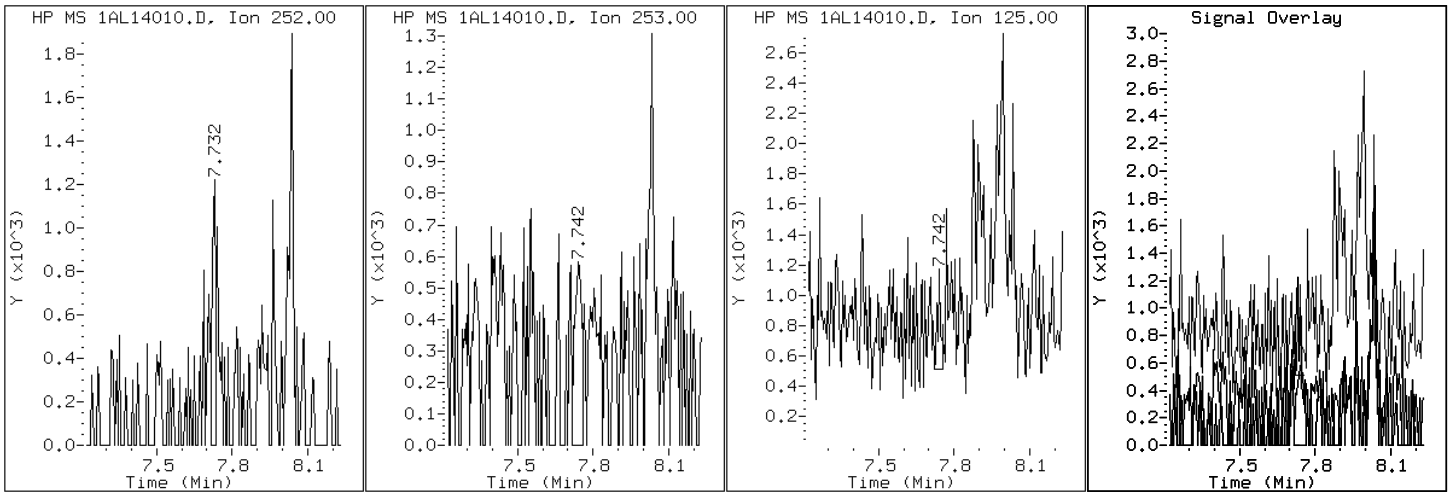
Data File: 1AL14010.D

Date: 14-DEC-2012 14:01

Client ID: FM0165A-CS Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



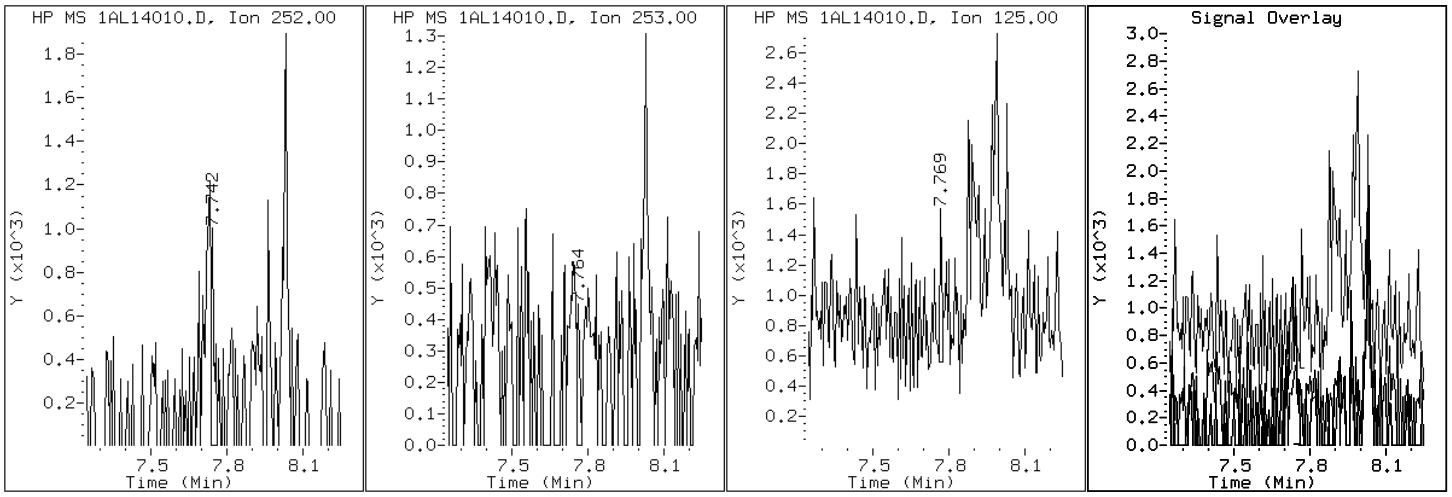
Data File: 1AL14010.D

Date: 14-DEC-2012 14:01

Client ID: FM0165A-CS | Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a | Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AL14010.D

Date: 14-DEC-2012 14:01

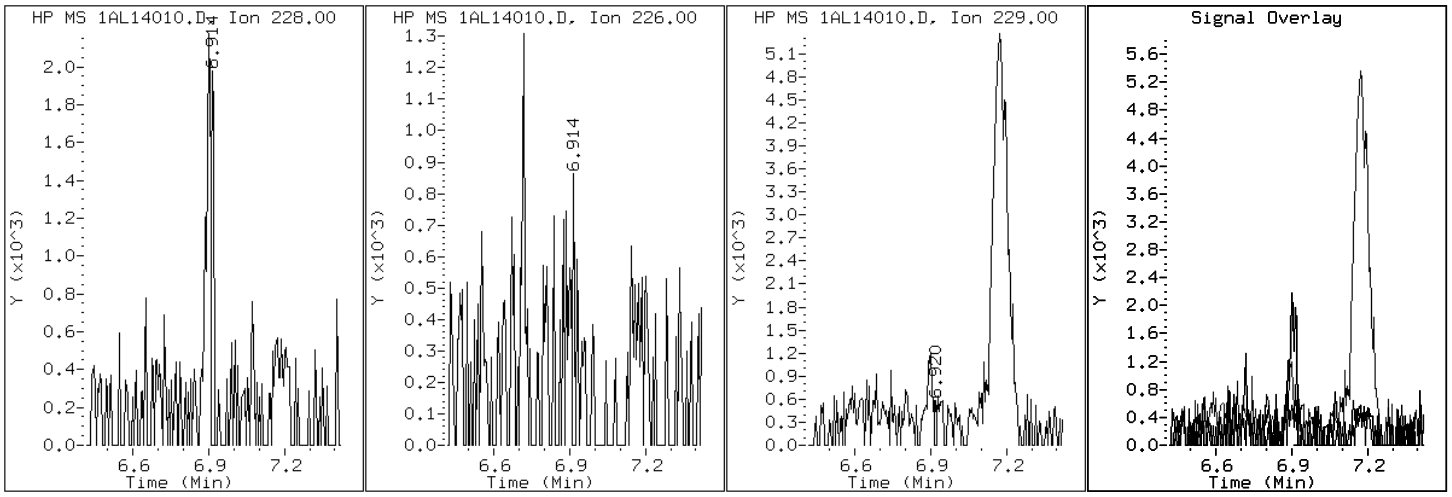
Client ID: FM0165A-CS

Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a

Operator: SCC

19 Chrysene



Data File: 1AL14010.D

Date: 14-DEC-2012 14:01

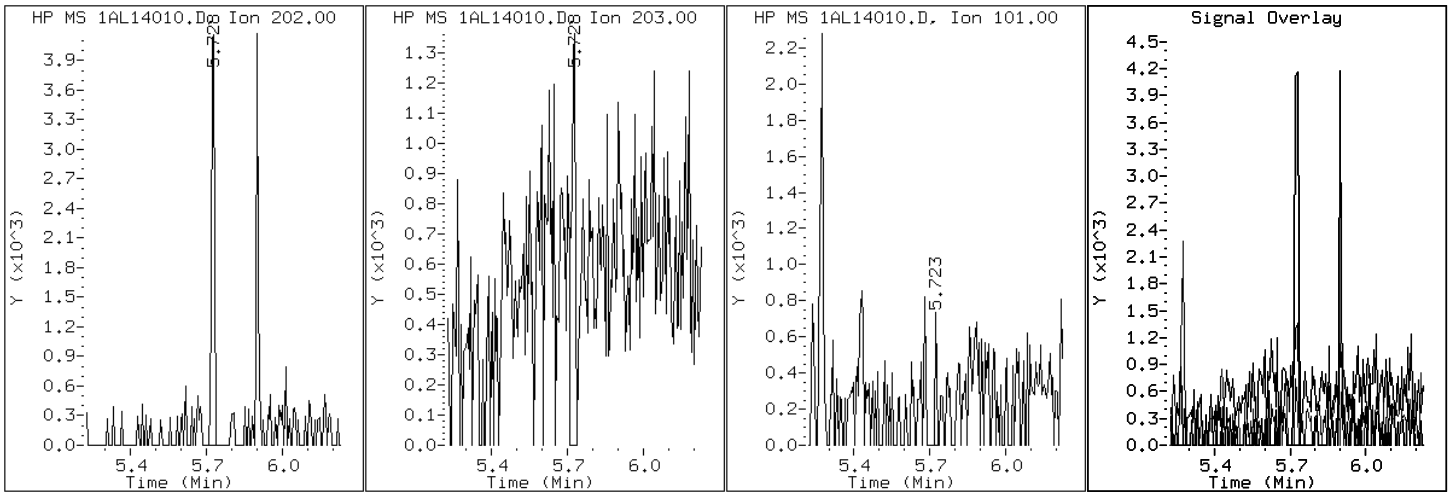
Client ID: FM0165A-CS

Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a

Operator: SCC

15 Fluoranthene



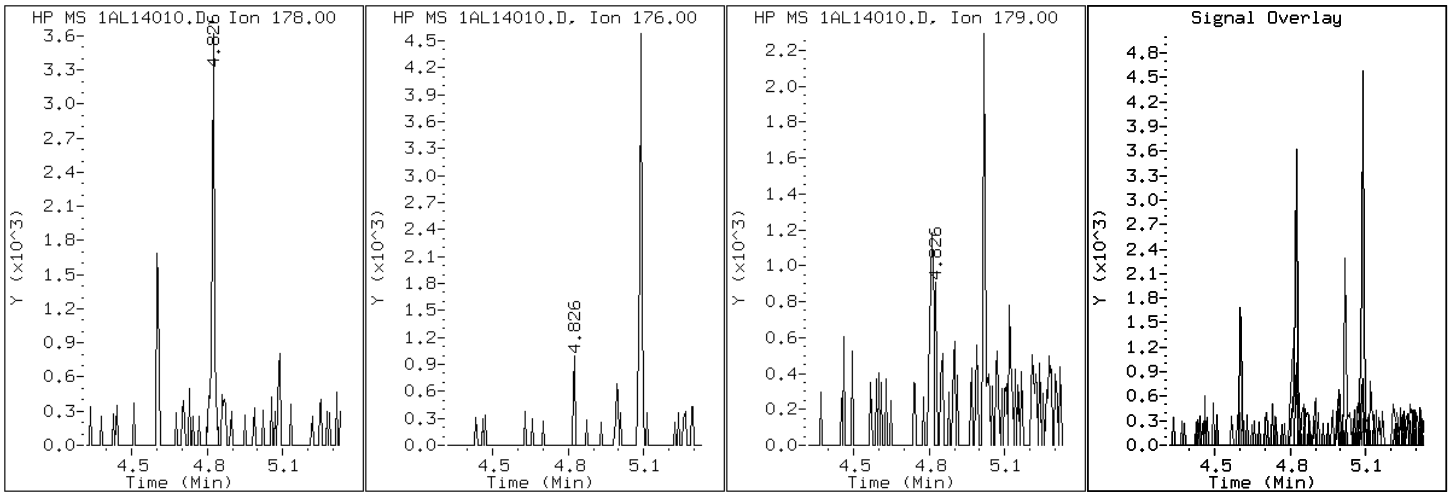
Data File: 1AL14010.D

Date: 14-DEC-2012 14:01

Client ID: FM0165A-CS Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a Operator: SCC

11 Phenanthrene



Data File: 1AL14010.D

Date: 14-DEC-2012 14:01

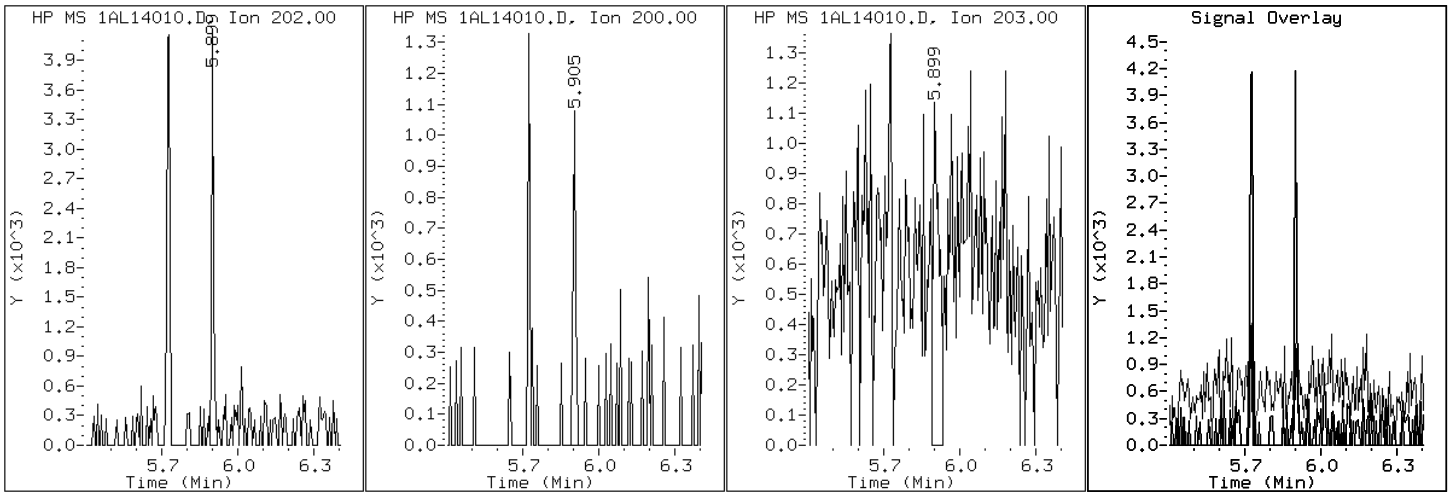
Client ID: FM0165A-CS

Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AL14010.D
Inj. Date and Time: 14-DEC-2012 14:01
Instrument ID: BSMA5973.i
Client ID: FM0165A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 12/14/2012

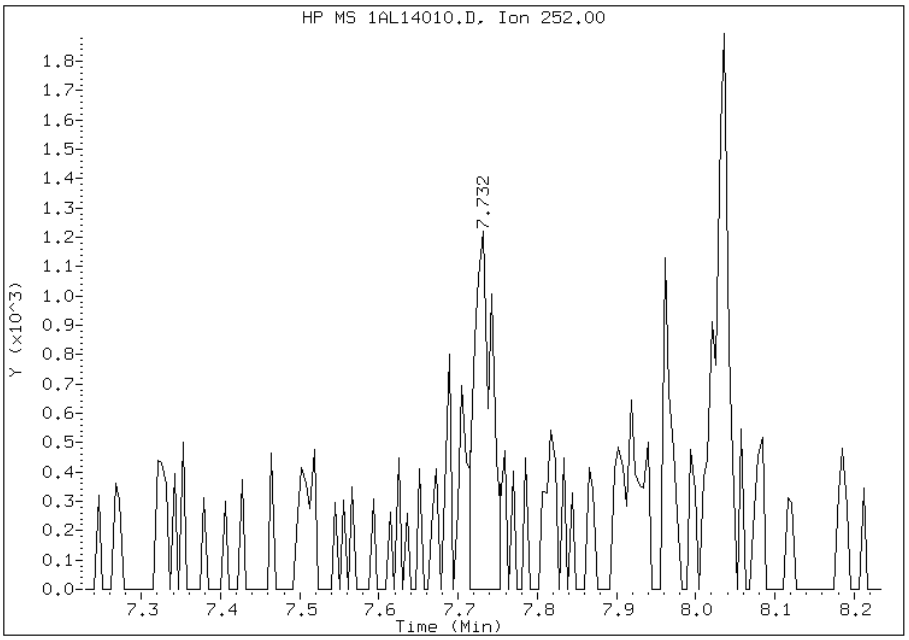
Processing Integration Results

RT: 7.73

Response: 1894

Amount: 0

Conc: 12



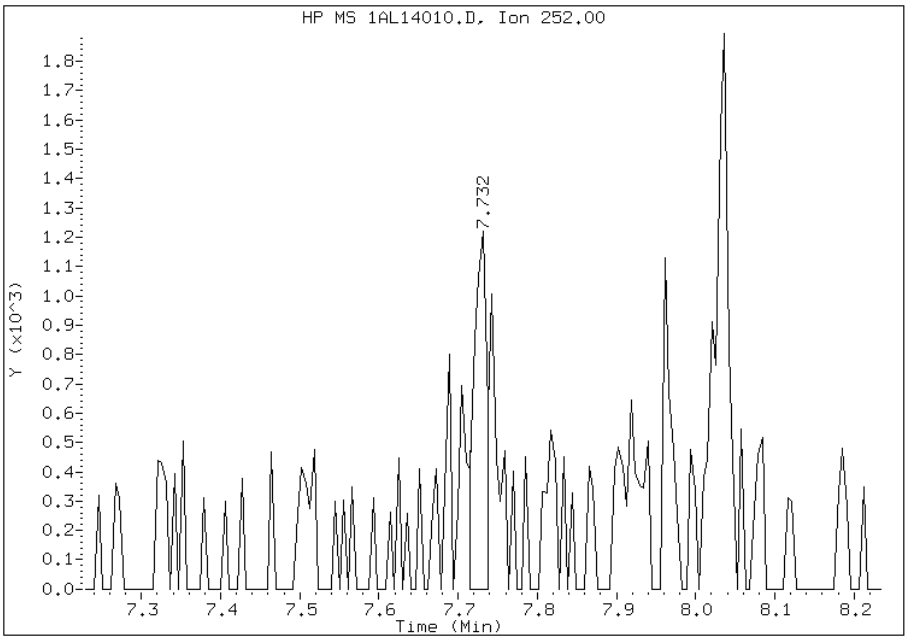

Manual Integration Results

RT: 7.73

Response: 1335

Amount: 0

Conc: 9




Manually Integrated By: cantins
Modification Date: 14-Dec-2012 14:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AL14010.D
Inj. Date and Time: 14-DEC-2012 14:01
Instrument ID: BSMA5973.i
Client ID: FM0165A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 12/14/2012

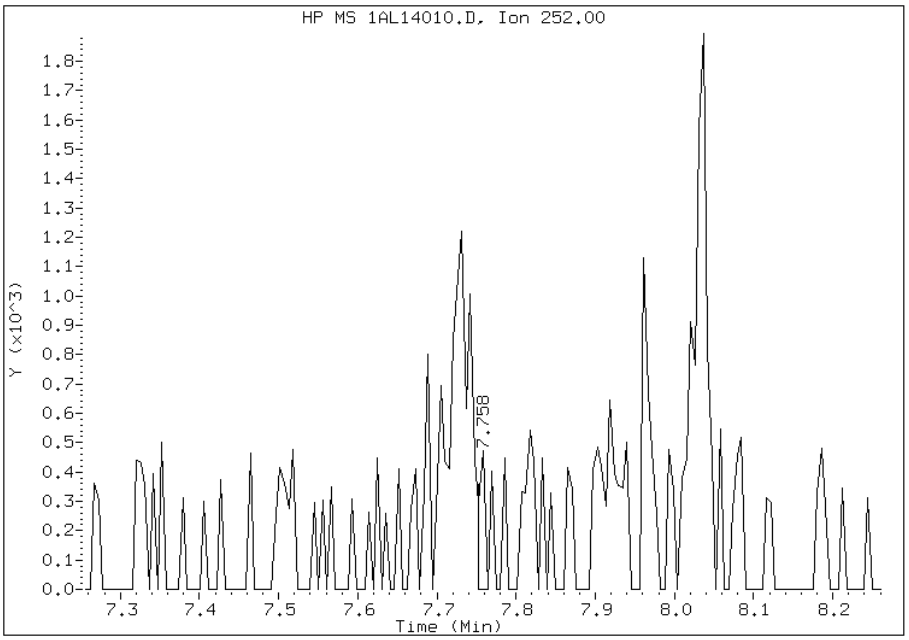
Processing Integration Results

RT: 7.76

Response: 247

Amount: 0

Conc: 1



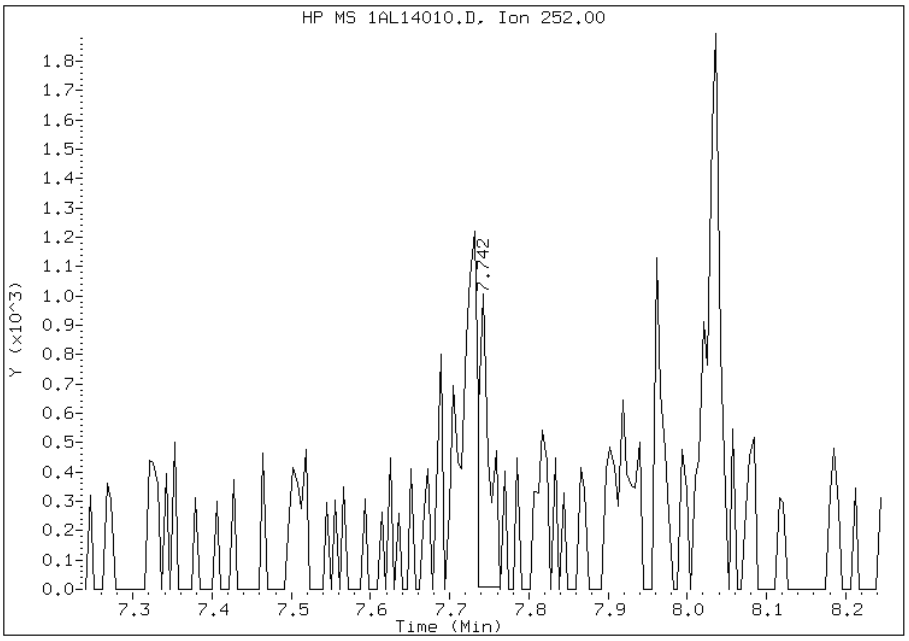

Manual Integration Results

RT: 7.74

Response: 896

Amount: 0

Conc: 5




Manually Integrated By: cantins
Modification Date: 14-Dec-2012 14:59
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165B-CS | Lab Sample ID: 680-85534-19

Matrix: Solid | Lab File ID: 1DL16019.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:02

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.00(g) | Date Analyzed: 12/16/2012 16:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 24 |
| 208-96-8 | Acenaphthylene | 48 | U | 48 | 6.0 |
| 120-12-7 | Anthracene | 10 | U | 10 | 5.0 |
| 56-55-3 | Benzo[a]anthracene | 13 | | 9.6 | 4.7 |
| 50-32-8 | Benzo[a]pyrene | 12 | U | 12 | 6.2 |
| 205-99-2 | Benzo[b]fluoranthene | 8.1 | J | 15 | 7.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 24 | U | 24 | 5.3 |
| 207-08-9 | Benzo[k]fluoranthene | 9.6 | U | 9.6 | 4.3 |
| 218-01-9 | Chrysene | 7.6 | J | 11 | 5.4 |
| 53-70-3 | Dibenz(a,h)anthracene | 24 | U | 24 | 4.9 |
| 206-44-0 | Fluoranthene | 10 | J | 24 | 4.8 |
| 86-73-7 | Fluorene | 24 | U | 24 | 4.9 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 24 | U | 24 | 8.5 |
| 90-12-0 | 1-Methylnaphthalene | 48 | U | 48 | 5.3 |
| 91-57-6 | 2-Methylnaphthalene | 48 | U | 48 | 8.5 |
| 91-20-3 | Naphthalene | 48 | U | 48 | 5.3 |
| 85-01-8 | Phenanthrene | 6.8 | J | 9.6 | 4.7 |
| 129-00-0 | Pyrene | 6.7 | J | 24 | 4.4 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16019.D
Lab Smp Id: 680-85534-A-19-A  Client Smp ID: FM0165B-CS
Inj Date  : 16-DEC-2012 16:42
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-19-A
Misc Info : 680-85534-A-19-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.000 | Weight Extracted |
| M | 16.576 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.266 | 6.265 | (1.000) | 4129224 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.935 | 7.934 | (1.000) | 2411399 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.198 | 9.191 | (1.000) | 3867872 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.504 | 9.503 | (1.033) | 367363 | 6.02168 | 480 |
| * 17 Chrysene-d12 | 240 | 11.566 | 11.553 | (1.000) | 3801646 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.481 | 13.463 | (1.000) | 3682852 | 40.0000 | |
| 10 Phenanthrene | 178 | 9.210 | 9.209 | (1.001) | 9359 | 0.08457 | 6.8 |
| 14 Fluoranthene | 202 | 10.191 | 10.190 | (1.108) | 14326 | 0.12808 | 10 |
| 15 Pyrene | 202 | 10.379 | 10.378 | (0.897) | 10185 | 0.08400 | 6.7 |
| 16 Benzo(a)anthracene | 228 | 11.560 | 11.530 | (0.999) | 16855 | 0.16428 | 13(Q) |
| 18 Chrysene | 228 | 11.584 | 11.583 | (1.002) | 10294 | 0.09558 | 7.6(Q) |
| 19 Benzo(b)fluoranthene | 252 | 12.900 | 12.893 | (0.957) | 9135 | 0.10106 | 8.1 |
| 20 Benzo(k)fluoranthene | 252 | 12.935 | 12.940 | (0.959) | 3669 | 0.03663 | 2.9(H) |
| 21 Benzo(a)pyrene | 252 | 13.364 | 13.363 | (0.991) | 6705 | 0.07434 | 5.9 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 25 Benzo(g,h,i)perylene | 276 | 15.573 | 15.590 | (1.155) | 3448 | 0.03765 | 3.0(MH) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16019.D

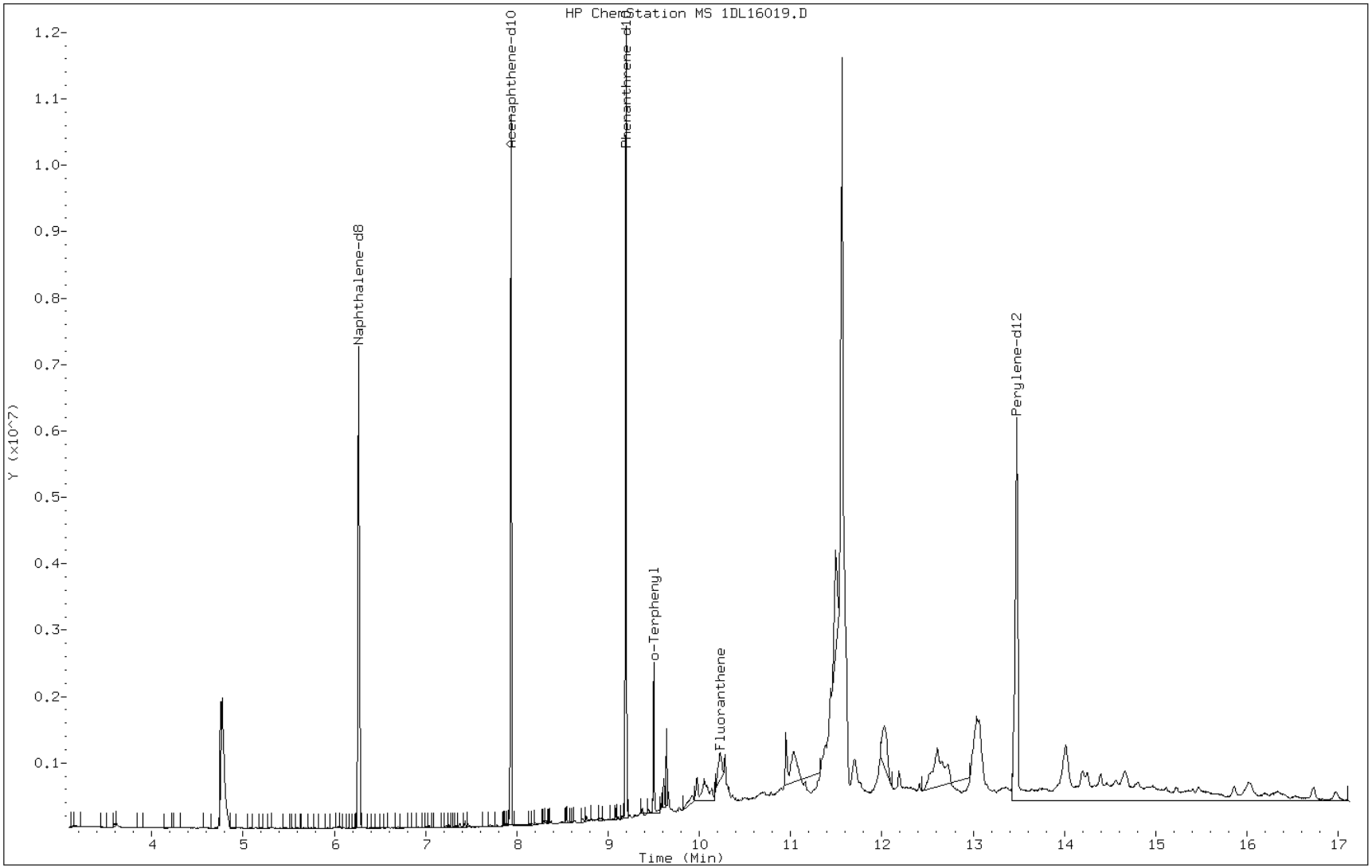
Date: 16-DEC-2012 16:42

Client ID: FM0165B-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-19-A

Operator: SCC



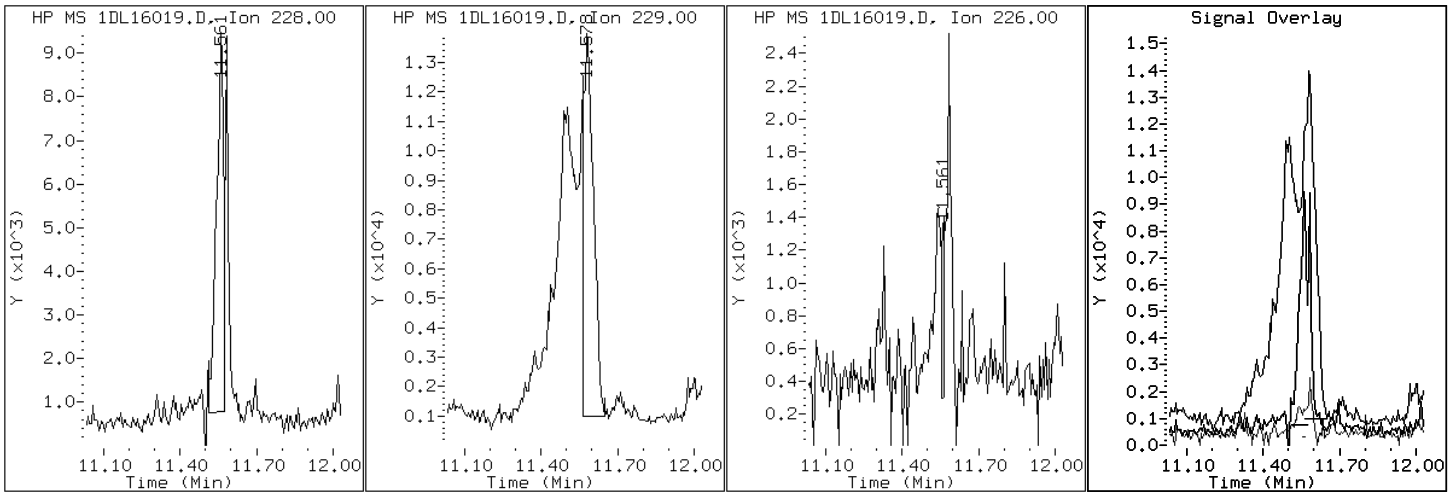
Data File: 1DL16019.D

Date: 16-DEC-2012 16:42

Client ID: FM0165B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-19-A Operator: SCC

16 Benzo(a)anthracene



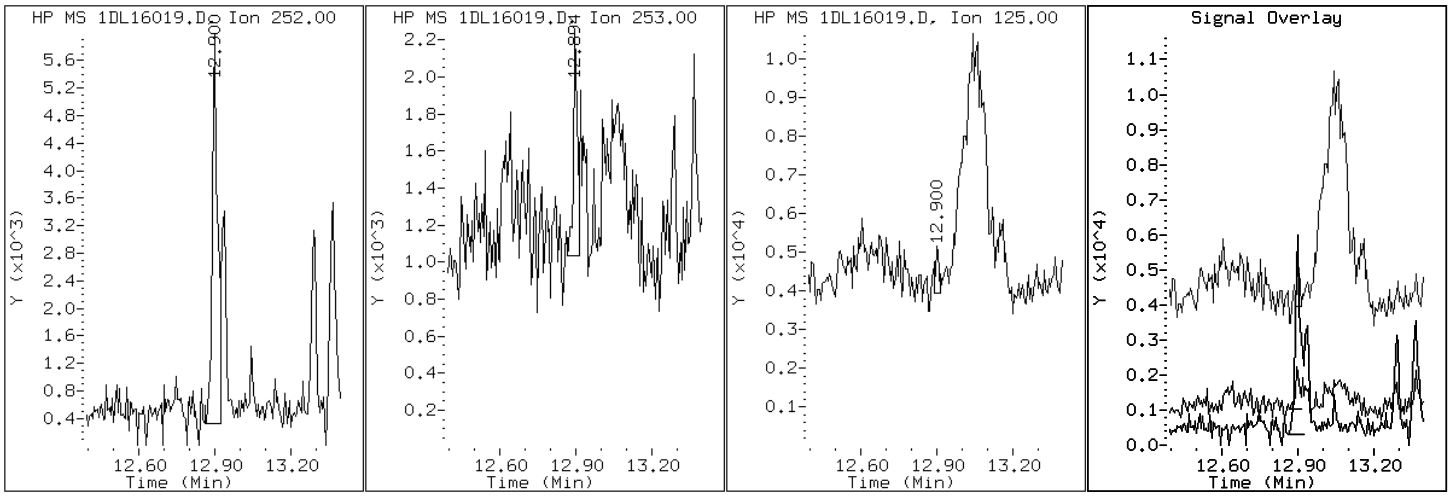
Data File: 1DL16019.D

Date: 16-DEC-2012 16:42

Client ID: FM0165B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-19-A Operator: SCC

19 Benzo(b)fluoranthene



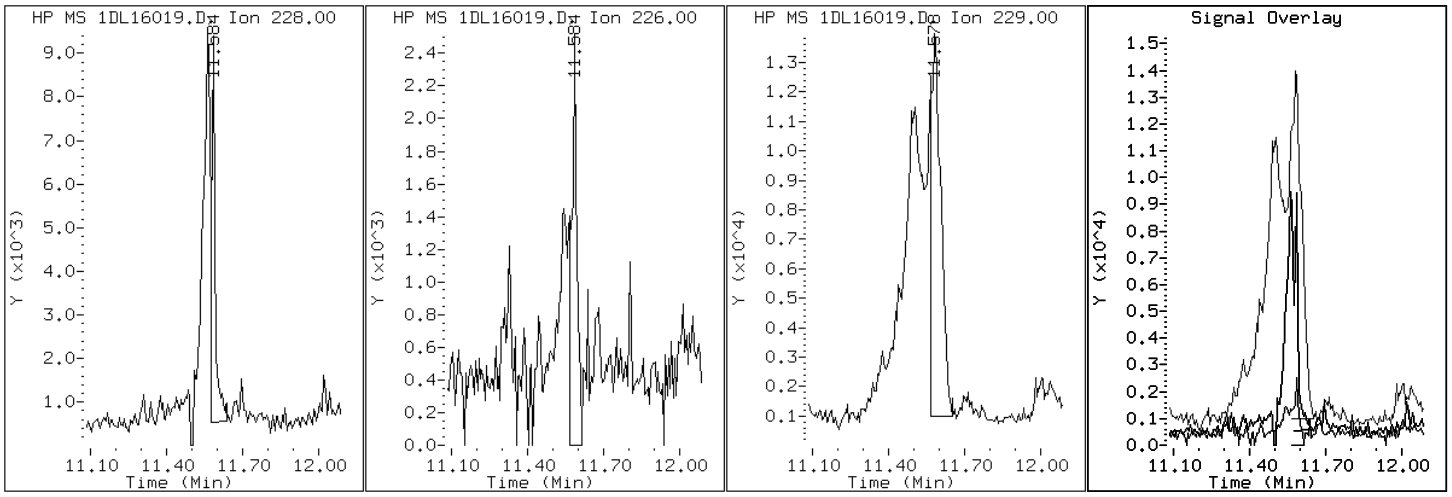
Data File: 1DL16019.D

Date: 16-DEC-2012 16:42

Client ID: FM0165B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-19-A Operator: SCC

18 Chrysene



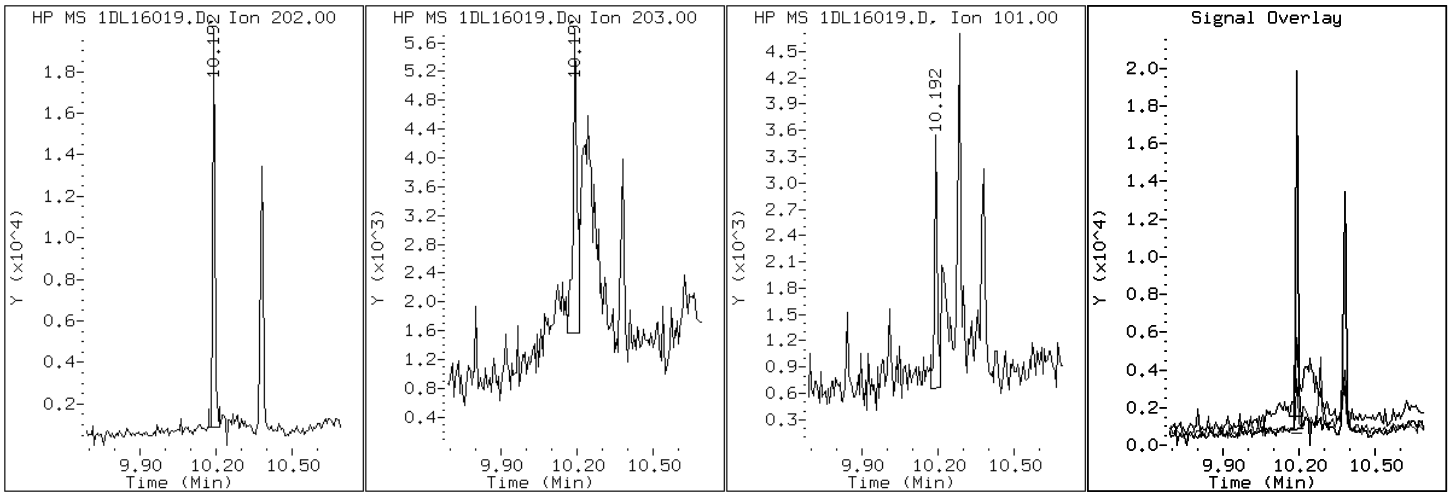
Data File: 1DL16019.D

Date: 16-DEC-2012 16:42

Client ID: FM0165B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-19-A Operator: SCC

14 Fluoranthene



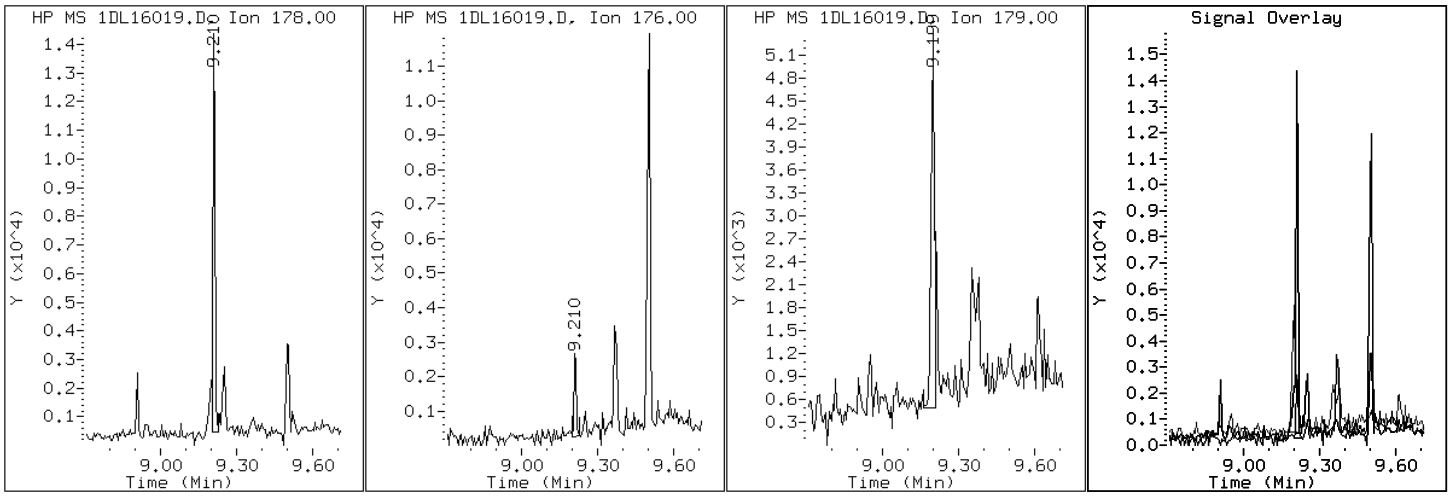
Data File: 1DL16019.D

Date: 16-DEC-2012 16:42

Client ID: FM0165B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-19-A Operator: SCC

10 Phenanthrene



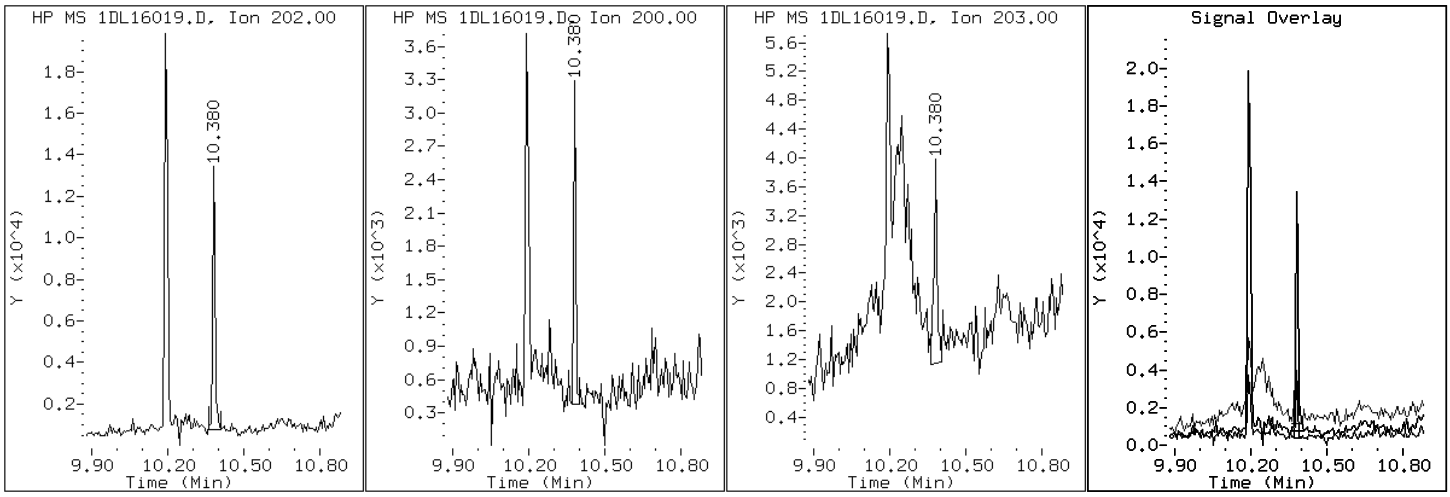
Data File: 1DL16019.D

Date: 16-DEC-2012 16:42

Client ID: FM0165B-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-19-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16019.D
Inj. Date and Time: 16-DEC-2012 16:42
Instrument ID: BSMSD.i
Client ID: FM0165B-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

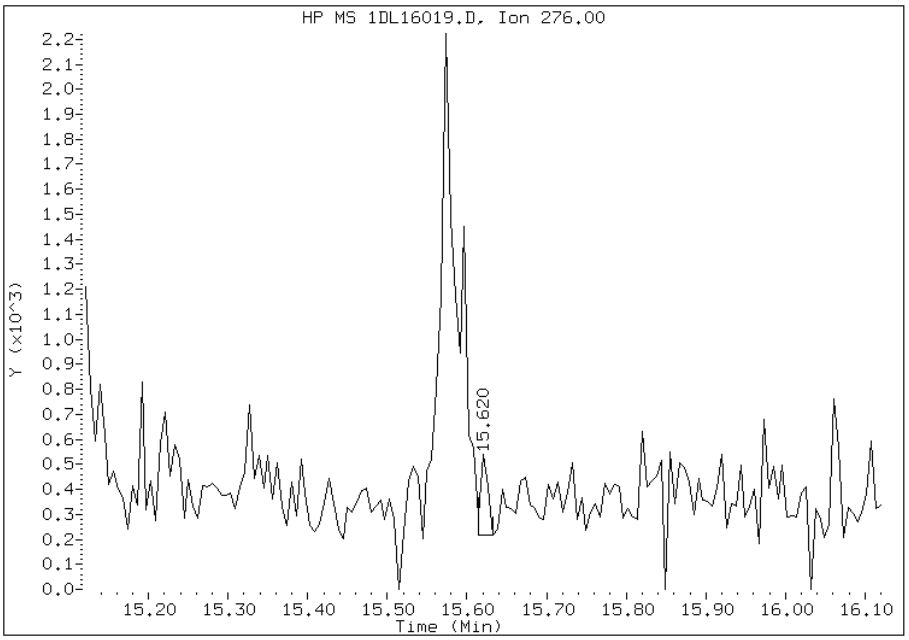
Processing Integration Results

RT: 15.62

Response: 212

Amount: 0

Conc: 0



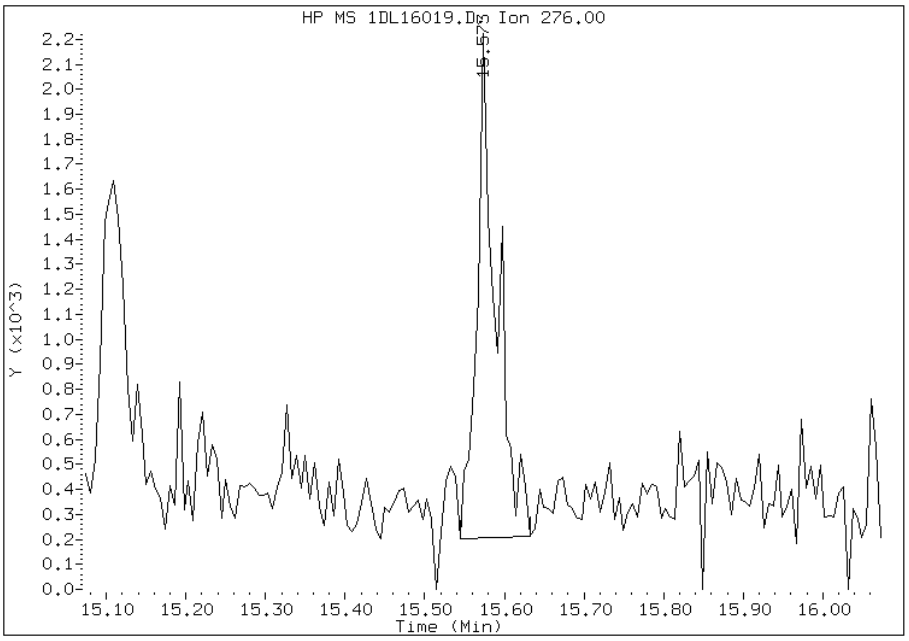

Manual Integration Results

RT: 15.57

Response: 3448

Amount: 0

Conc: 3




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 15:59
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165C-CS | Lab Sample ID: 680-85534-20

Matrix: Solid | Lab File ID: 1DL16020.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:09

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.00(g) | Date Analyzed: 12/16/2012 17:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 25 |
| 208-96-8 | Acenaphthylene | 49 | U | 49 | 6.2 |
| 120-12-7 | Anthracene | 10 | U | 10 | 5.2 |
| 56-55-3 | Benzo[a]anthracene | 20 | | 9.8 | 4.8 |
| 50-32-8 | Benzo[a]pyrene | 9.2 | J | 13 | 6.4 |
| 205-99-2 | Benzo[b]fluoranthene | 16 | | 15 | 7.5 |
| 191-24-2 | Benzo[g,h,i]perylene | 25 | U | 25 | 5.4 |
| 207-08-9 | Benzo[k]fluoranthene | 6.3 | J | 9.8 | 4.4 |
| 218-01-9 | Chrysene | 12 | | 11 | 5.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 25 | U | 25 | 5.0 |
| 206-44-0 | Fluoranthene | 22 | J | 25 | 4.9 |
| 86-73-7 | Fluorene | 25 | U | 25 | 5.0 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 25 | U | 25 | 8.7 |
| 90-12-0 | 1-Methylnaphthalene | 49 | U | 49 | 5.4 |
| 91-57-6 | 2-Methylnaphthalene | 49 | U | 49 | 8.7 |
| 91-20-3 | Naphthalene | 49 | U | 49 | 5.4 |
| 85-01-8 | Phenanthrene | 16 | | 9.8 | 4.8 |
| 129-00-0 | Pyrene | 17 | J | 25 | 4.6 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 59 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16020.D
Lab Smp Id: 680-85534-A-20-A  Client Smp ID: FM0165C-CS
Inj Date : 16-DEC-2012 17:05
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-20-A
Misc Info : 680-85534-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.000 | Weight Extracted |
| M | 18.755 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.269 | 6.265 | (1.000) | 4214109 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.938 | 7.934 | (1.000) | 2480428 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.195 | 9.191 | (1.000) | 3979704 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.500 | 9.503 | (1.033) | 370191 | 5.89752 | 480 |
| * 17 Chrysene-d12 | 240 | 11.563 | 11.553 | (1.000) | 3868490 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.478 | 13.463 | (1.000) | 3668804 | 40.0000 | |
| 2 Naphthalene | 128 | 6.287 | 6.283 | (1.003) | 3908 | 0.03571 | 2.9 |
| 10 Phenanthrene | 178 | 9.213 | 9.209 | (1.002) | 21745 | 0.19096 | 16 |
| 11 Anthracene | 178 | 9.248 | 9.250 | (1.006) | 3691 | 0.03233 | 2.6 |
| 14 Fluoranthene | 202 | 10.194 | 10.190 | (1.109) | 30936 | 0.26881 | 22 |
| 15 Pyrene | 202 | 10.382 | 10.378 | (0.898) | 24932 | 0.20208 | 16 |
| 16 Benzo(a)anthracene | 228 | 11.545 | 11.530 | (0.998) | 25881 | 0.24790 | 20 |
| 18 Chrysene | 228 | 11.580 | 11.583 | (1.002) | 16132 | 0.14720 | 12 |
| 19 Benzo(b)fluoranthene | 252 | 12.896 | 12.893 | (0.957) | 17201 | 0.19102 | 16 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 20 Benzo(k)fluoranthene | 252 | 12.932 | 12.940 | (0.959) | 7629 | 0.07646 | 6.3(QH) |
| 21 Benzo(a)pyrene | 252 | 13.366 | 13.363 | (0.992) | 10023 | 0.11155 | 9.2 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.112 | 15.114 | (1.121) | 5432 | 0.06130 | 5.0(QMH) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.147 | 15.149 | (1.124) | 4086 | 0.04697 | 3.8(MH) |
| 25 Benzo(g,h,i)perylene | 276 | 15.576 | 15.590 | (1.156) | 4700 | 0.05152 | 4.2(MH) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16020.D

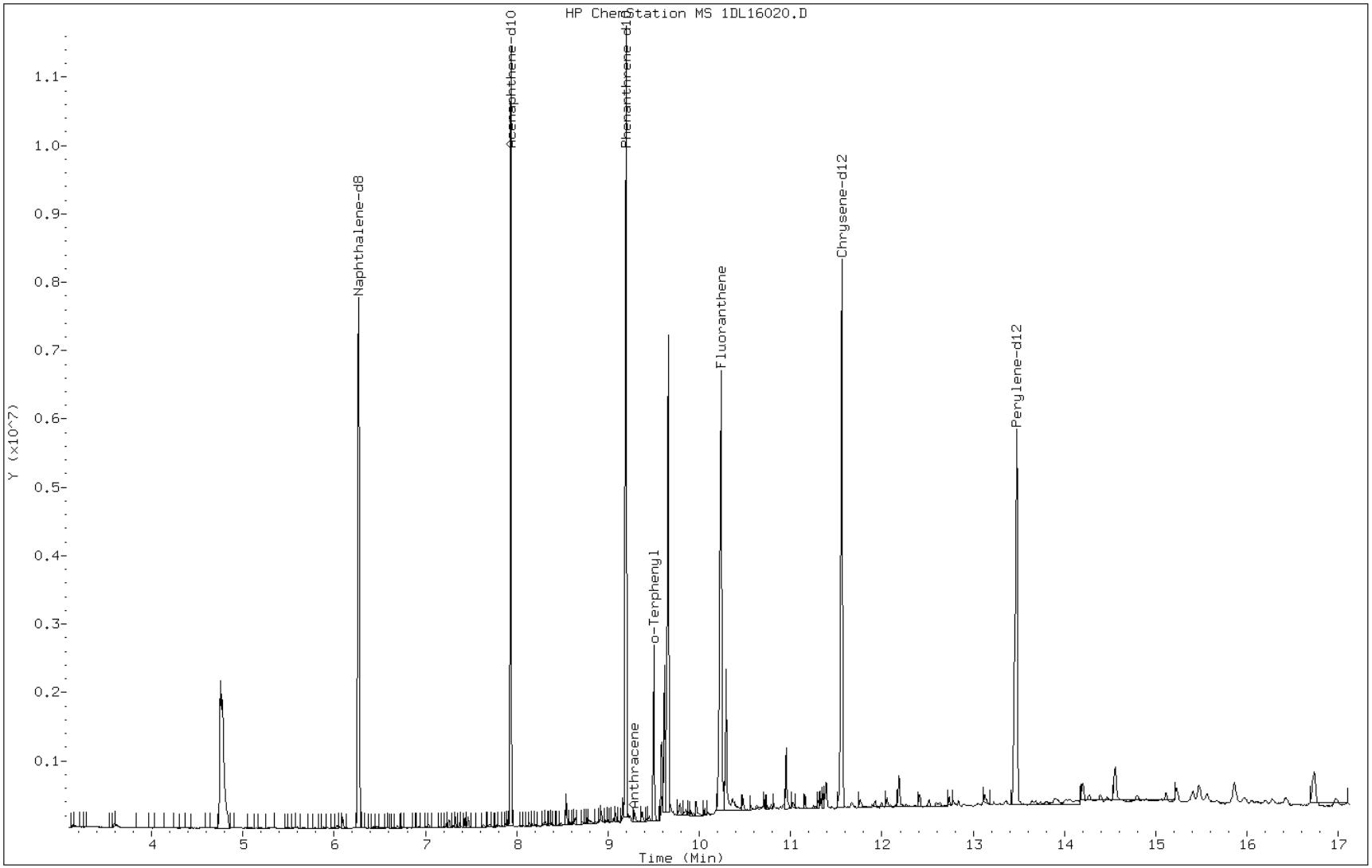
Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A

Operator: SCC



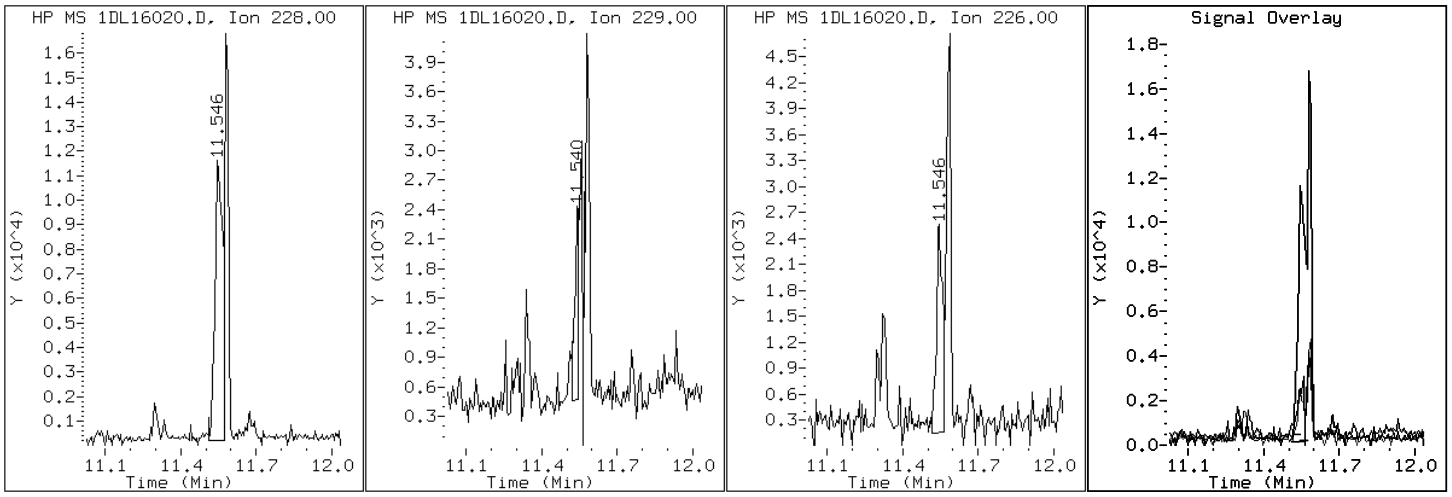
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

16 Benzo(a)anthracene



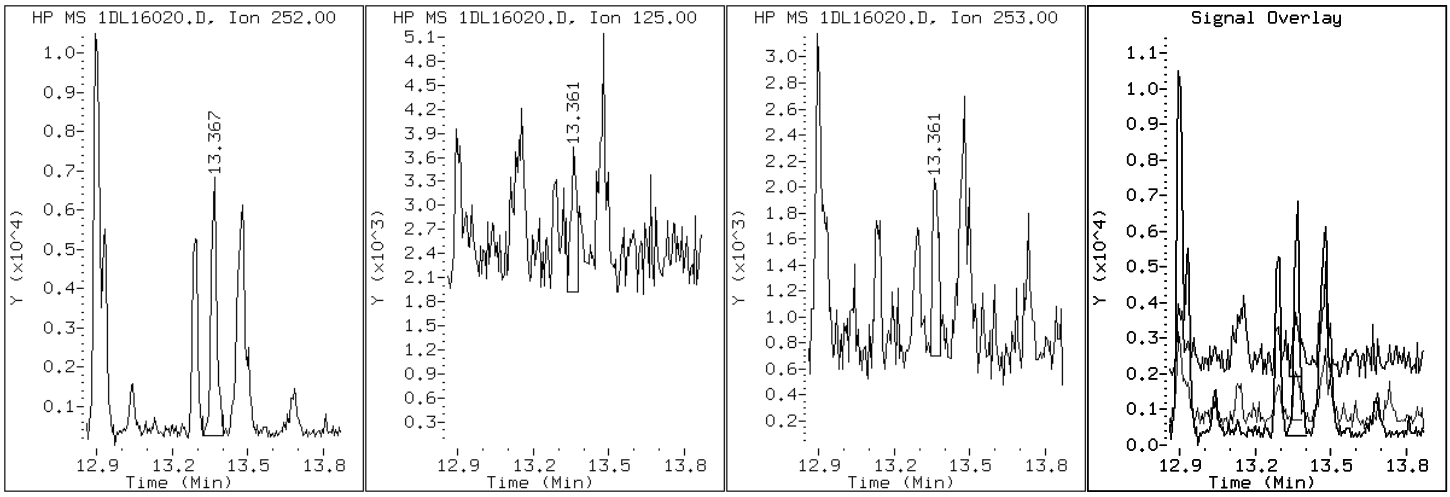
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

21 Benzo(a)pyrene



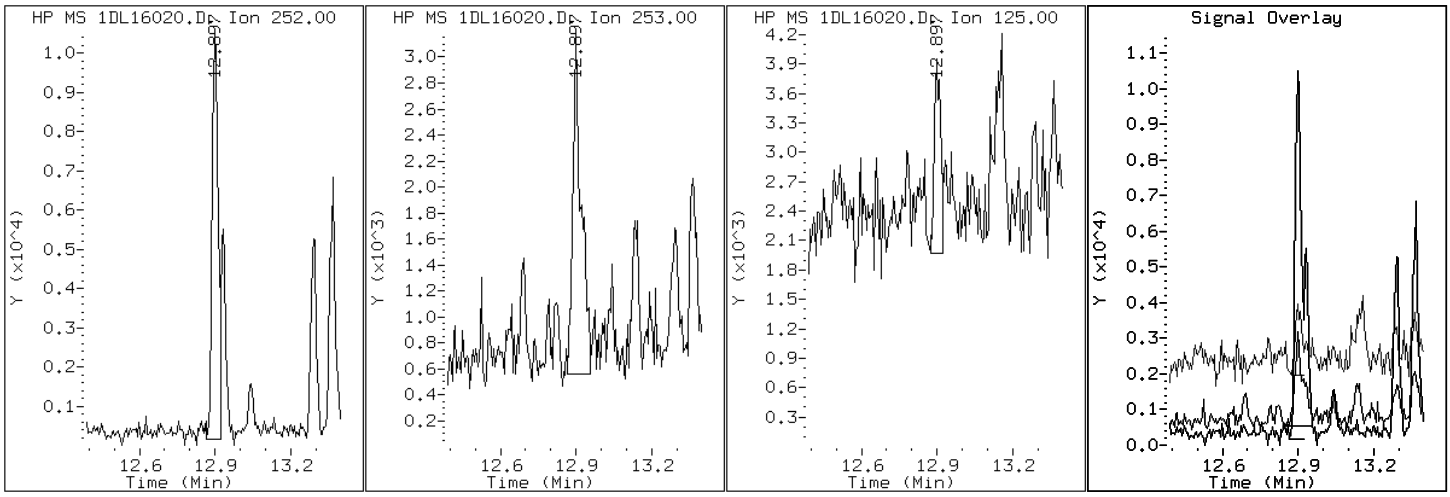
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

19 Benzo(b)fluoranthene



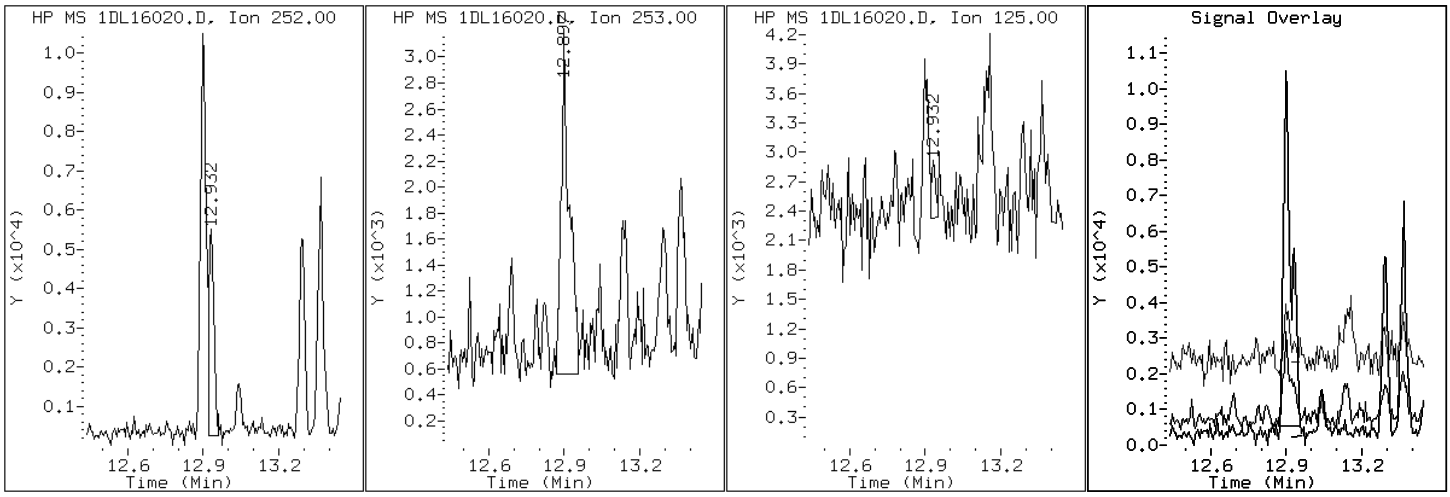
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

20 Benzo(k)fluoranthene



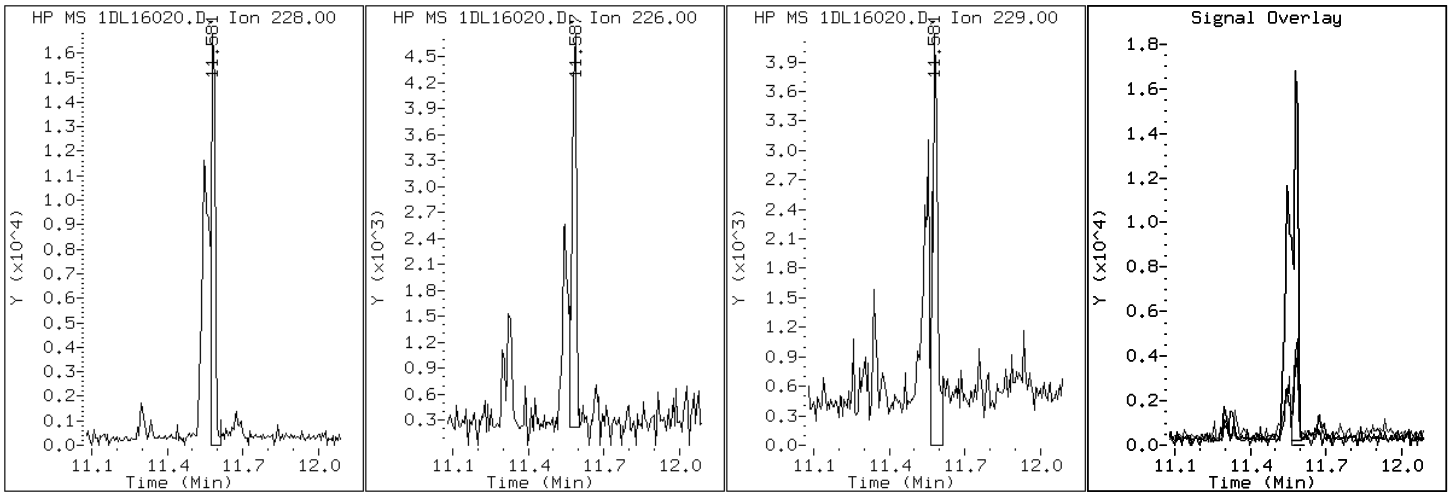
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

18 Chrysene



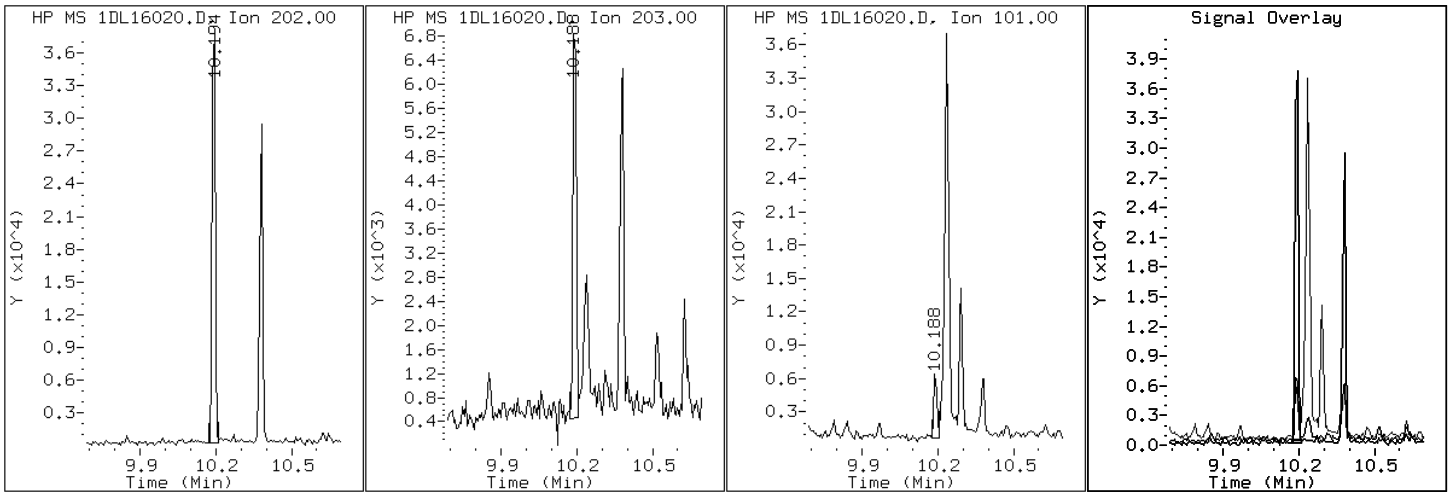
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

14 Fluoranthene



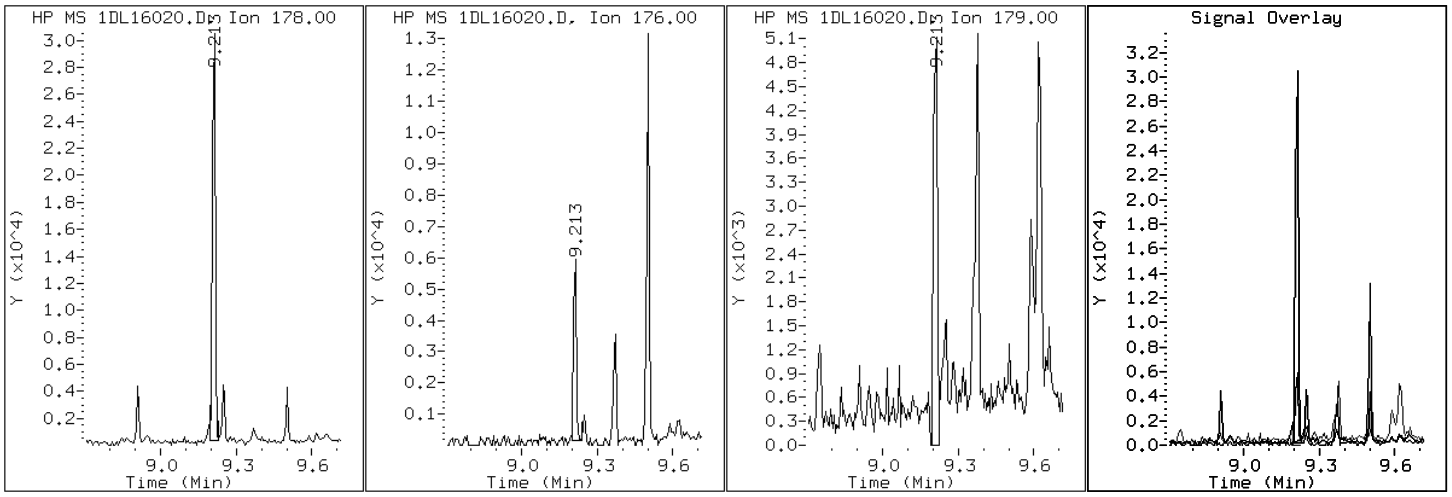
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

10 Phenanthrene



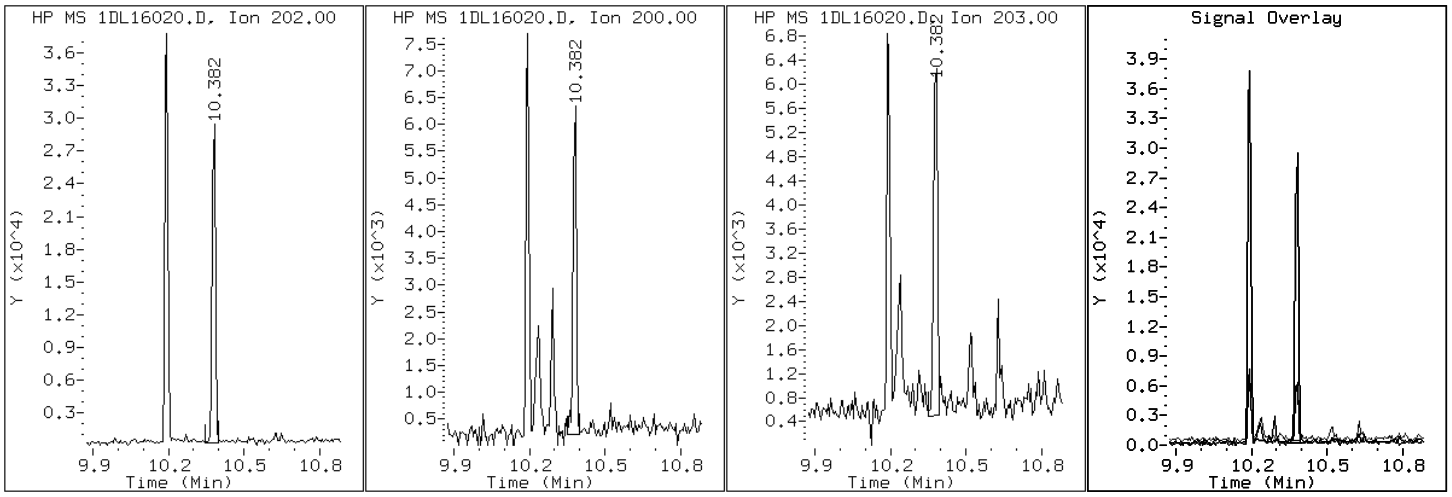
Data File: 1DL16020.D

Date: 16-DEC-2012 17:05

Client ID: FM0165C-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-20-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16020.D
Inj. Date and Time: 16-DEC-2012 17:05
Instrument ID: BSMSD.i
Client ID: FM0165C-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

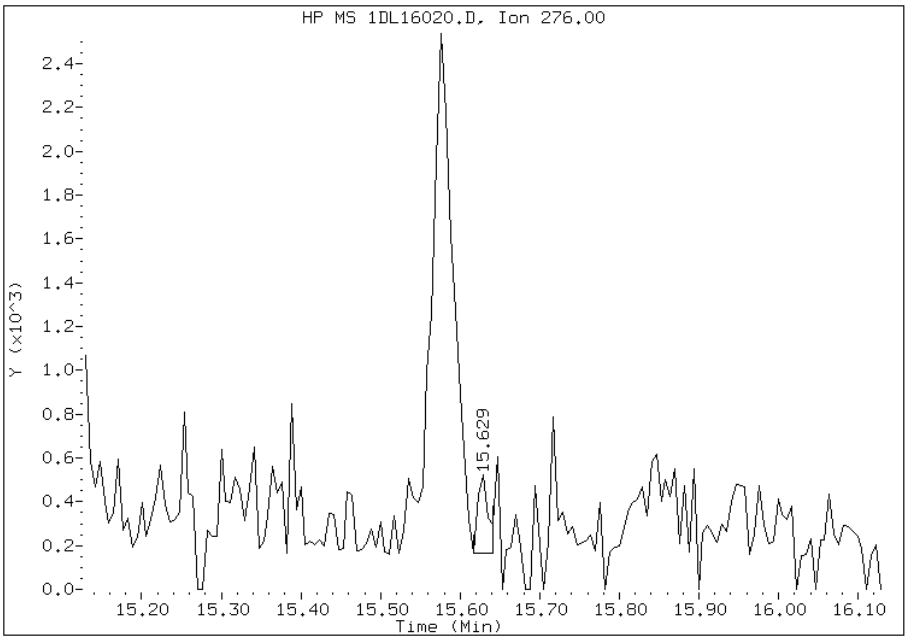
Processing Integration Results

RT: 15.63

Response: 321

Amount: 0

Conc: 0



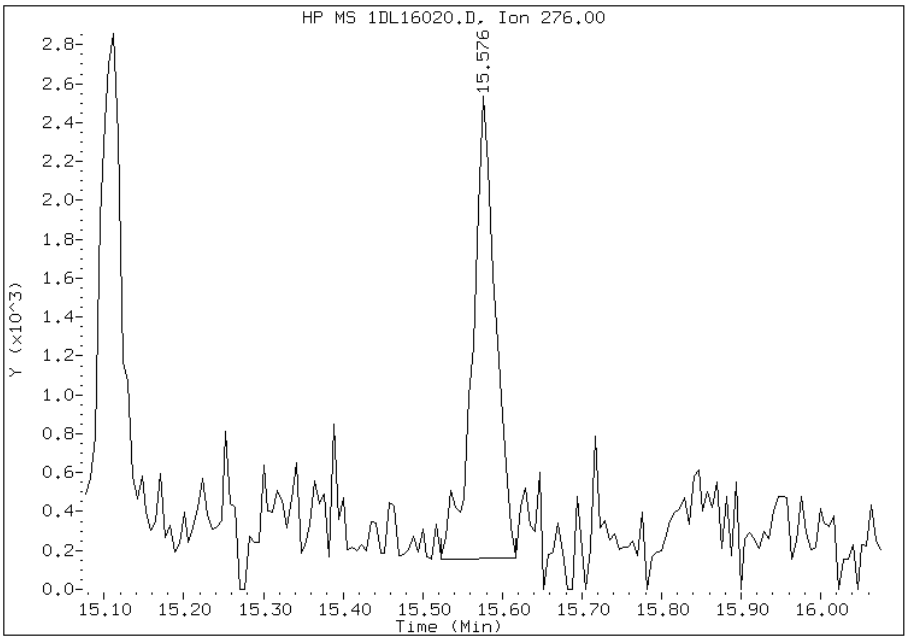

Manual Integration Results

RT: 15.58

Response: 4700

Amount: 0

Conc: 4




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16020.D
Inj. Date and Time: 16-DEC-2012 17:05
Instrument ID: BSMSD.i
Client ID: FM0165C-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/18/2012

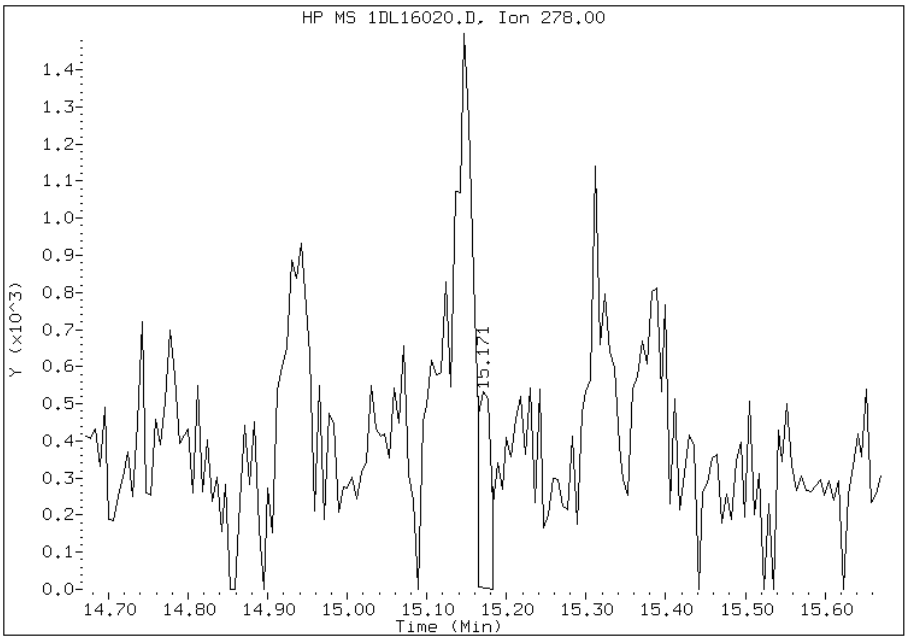
Processing Integration Results

RT: 15.17

Response: 611

Amount: 0

Conc: 1



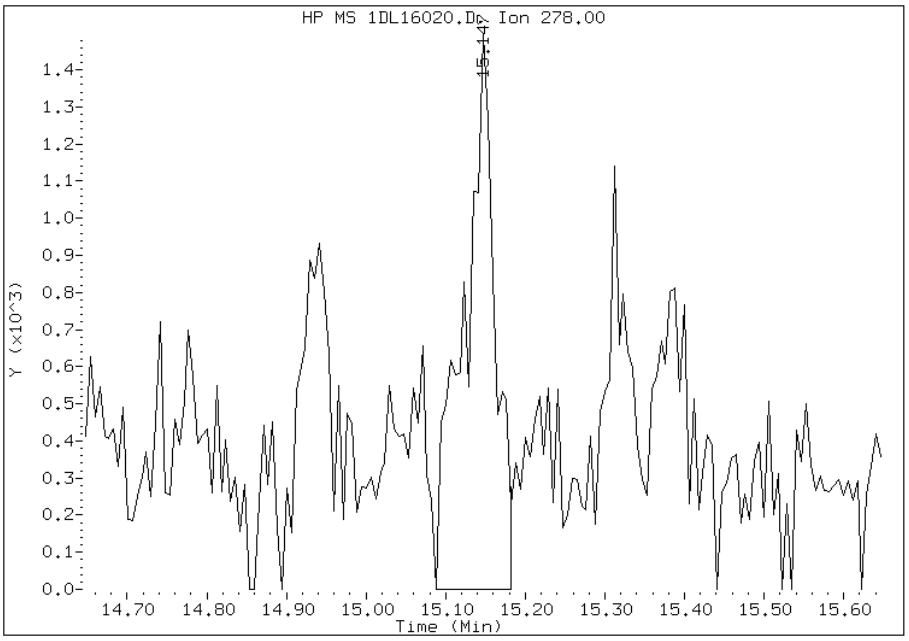

Manual Integration Results

RT: 15.15

Response: 4086

Amount: 0

Conc: 4




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16020.D
Inj. Date and Time: 16-DEC-2012 17:05
Instrument ID: BSMSD.i
Client ID: FM0165C-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

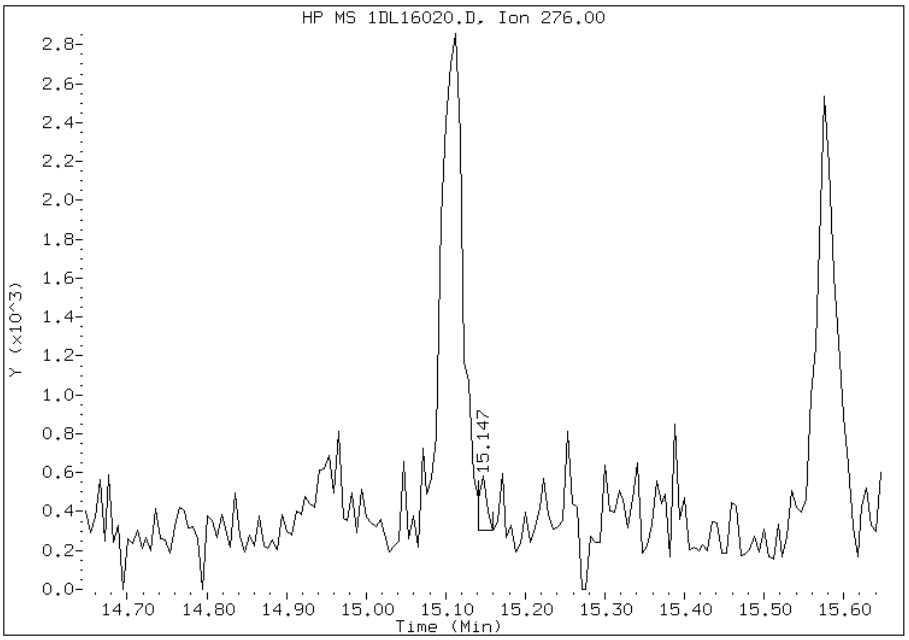
Processing Integration Results

RT: 15.15

Response: 191

Amount: 0

Conc: 0



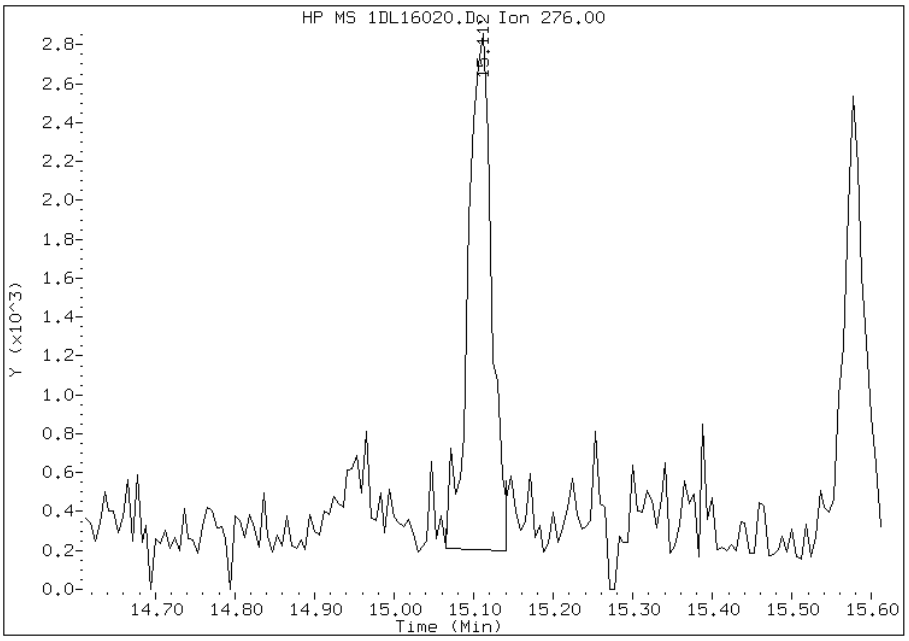

Manual Integration Results

RT: 15.11

Response: 5432

Amount: 0

Conc: 5




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:01
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165D-CS | Lab Sample ID: 680-85534-21

Matrix: Solid | Lab File ID: 1DL16021.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:14

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.12(g) | Date Analyzed: 12/16/2012 17:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 24 |
| 208-96-8 | Acenaphthylene | 48 | U | 48 | 6.0 |
| 120-12-7 | Anthracene | 7.8 | J | 10 | 5.0 |
| 56-55-3 | Benzo[a]anthracene | 26 | | 9.6 | 4.7 |
| 50-32-8 | Benzo[a]pyrene | 17 | | 12 | 6.2 |
| 205-99-2 | Benzo[b]fluoranthene | 24 | | 15 | 7.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 6.6 | J | 24 | 5.3 |
| 207-08-9 | Benzo[k]fluoranthene | 10 | | 9.6 | 4.3 |
| 218-01-9 | Chrysene | 24 | | 11 | 5.4 |
| 53-70-3 | Dibenz(a,h)anthracene | 24 | U | 24 | 4.9 |
| 206-44-0 | Fluoranthene | 44 | | 24 | 4.8 |
| 86-73-7 | Fluorene | 24 | U | 24 | 4.9 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 24 | U | 24 | 8.5 |
| 90-12-0 | 1-Methylnaphthalene | 48 | U | 48 | 5.3 |
| 91-57-6 | 2-Methylnaphthalene | 48 | U | 48 | 8.5 |
| 91-20-3 | Naphthalene | 48 | U | 48 | 5.3 |
| 85-01-8 | Phenanthrene | 31 | | 9.6 | 4.7 |
| 129-00-0 | Pyrene | 32 | | 24 | 4.4 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 70 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16021.D
Lab Smp Id: 680-85534-A-21-A  Client Smp ID: FM0165D-CS
Inj Date : 16-DEC-2012 17:27
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-21-A
Misc Info : 680-85534-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.120 | Weight Extracted |
| M | 16.922 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.266 | 6.265 | (1.000) | 4195603 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.934 | 7.934 | (1.000) | 2474368 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.197 | 9.191 | (1.000) | 3977194 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.503 | 9.503 | (1.033) | 438836 | 6.99552 | 560 |
| * 17 Chrysene-d12 | 240 | 11.565 | 11.553 | (1.000) | 3887419 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.481 | 13.463 | (1.000) | 3767586 | 40.0000 | |
| 2 Naphthalene | 128 | 6.283 | 6.283 | (1.003) | 5016 | 0.04604 | 3.7(Q) |
| 8 Fluorene | 166 | 8.398 | 8.398 | (1.058) | 2774 | 0.03594 | 2.9 |
| 10 Phenanthrene | 178 | 9.209 | 9.209 | (1.001) | 44629 | 0.39217 | 31 |
| 11 Anthracene | 178 | 9.250 | 9.250 | (1.006) | 11205 | 0.09821 | 7.8 |
| 12 Carbazole | 167 | 9.386 | 9.379 | (1.020) | 5627 | 0.05571 | 4.4 |
| 14 Fluoranthene | 202 | 10.190 | 10.190 | (1.108) | 64196 | 0.55816 | 44 |
| 15 Pyrene | 202 | 10.378 | 10.378 | (0.897) | 49876 | 0.40228 | 32 |
| 16 Benzo(a)anthracene | 228 | 11.542 | 11.530 | (0.998) | 34657 | 0.33034 | 26 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 18 Chrysene | 228 | 11.583 | 11.583 | (1.002) | 33052 | 0.30011 | 24 |
| 19 Benzo(b)fluoranthene | 252 | 12.893 | 12.893 | (0.956) | 28022 | 0.30303 | 24 |
| 20 Benzo(k)fluoranthene | 252 | 12.928 | 12.940 | (0.959) | 13290 | 0.12971 | 10(H) |
| 21 Benzo(a)pyrene | 252 | 13.363 | 13.363 | (0.991) | 19281 | 0.20897 | 17 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.102 | 15.114 | (1.120) | 8890 | 0.09769 | 7.8(MH) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.132 | 15.149 | (1.122) | 3590 | 0.04019 | 3.2(H) |
| 25 Benzo(g,h,i)perylene | 276 | 15.572 | 15.590 | (1.155) | 7749 | 0.08271 | 6.6(H) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16021.D

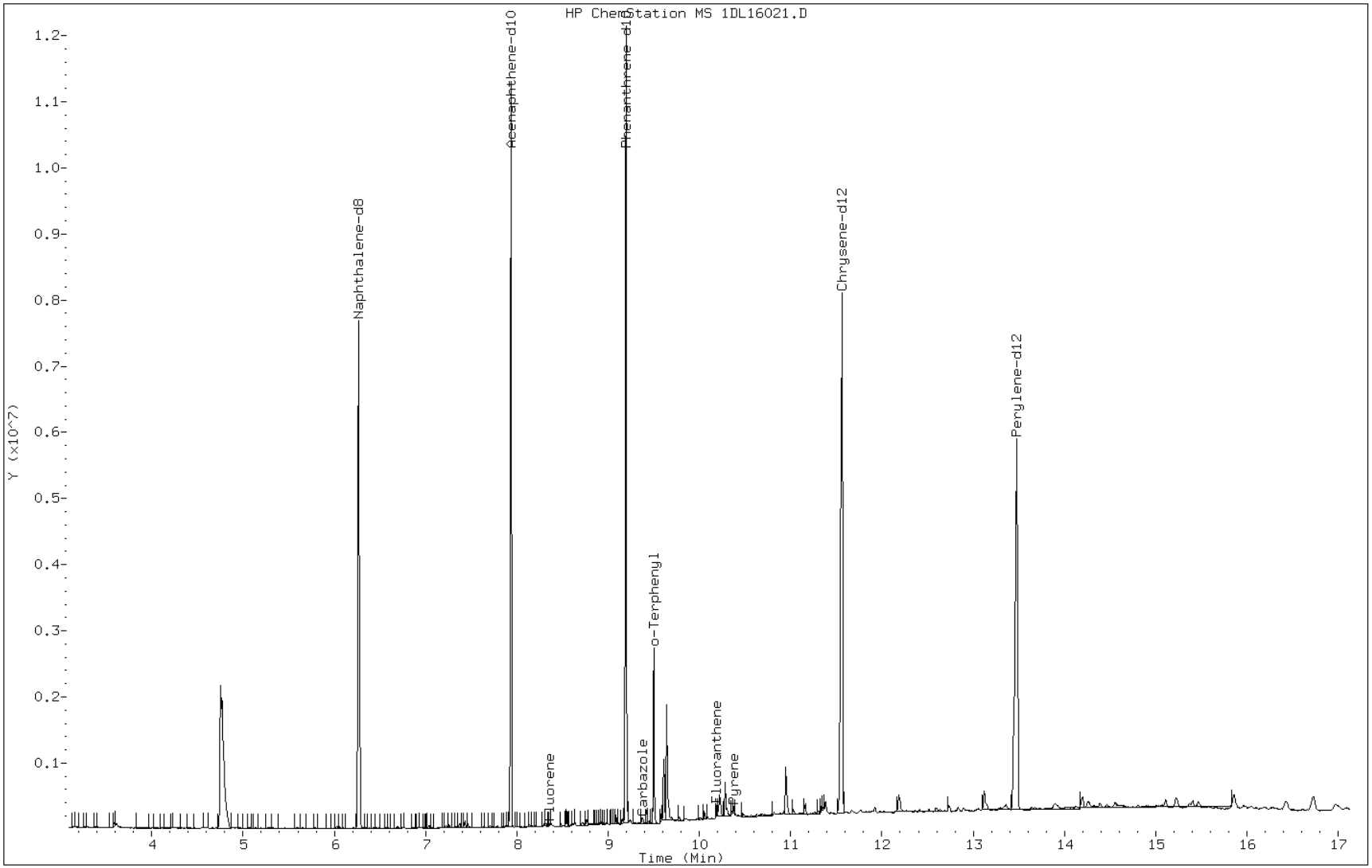
Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A

Operator: SCC



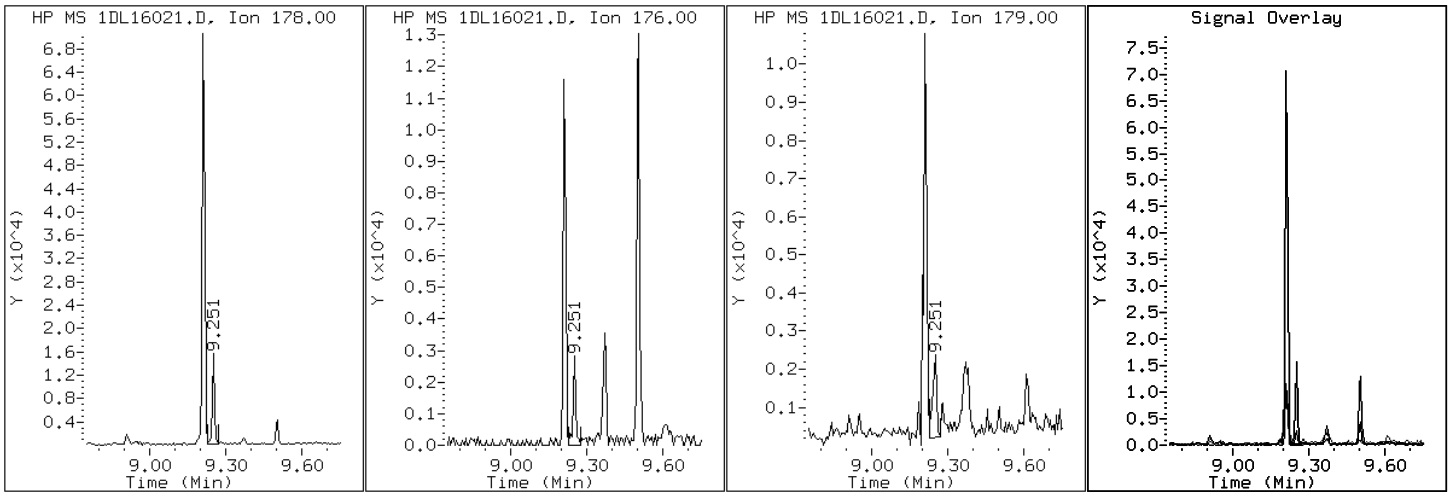
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

11 Anthracene



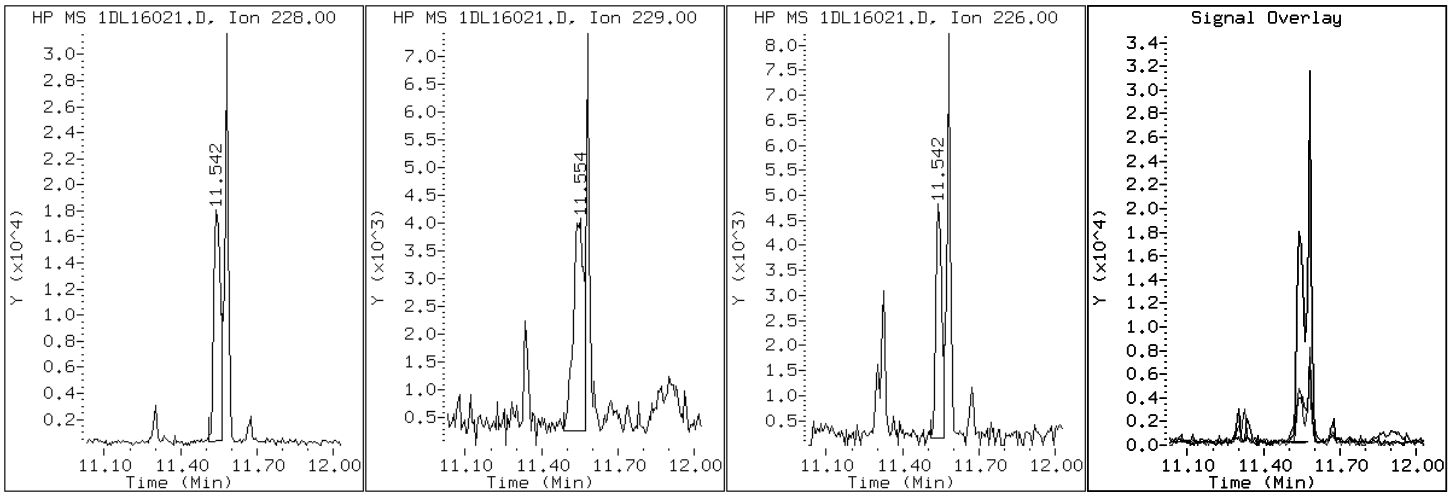
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

16 Benzo(a)anthracene



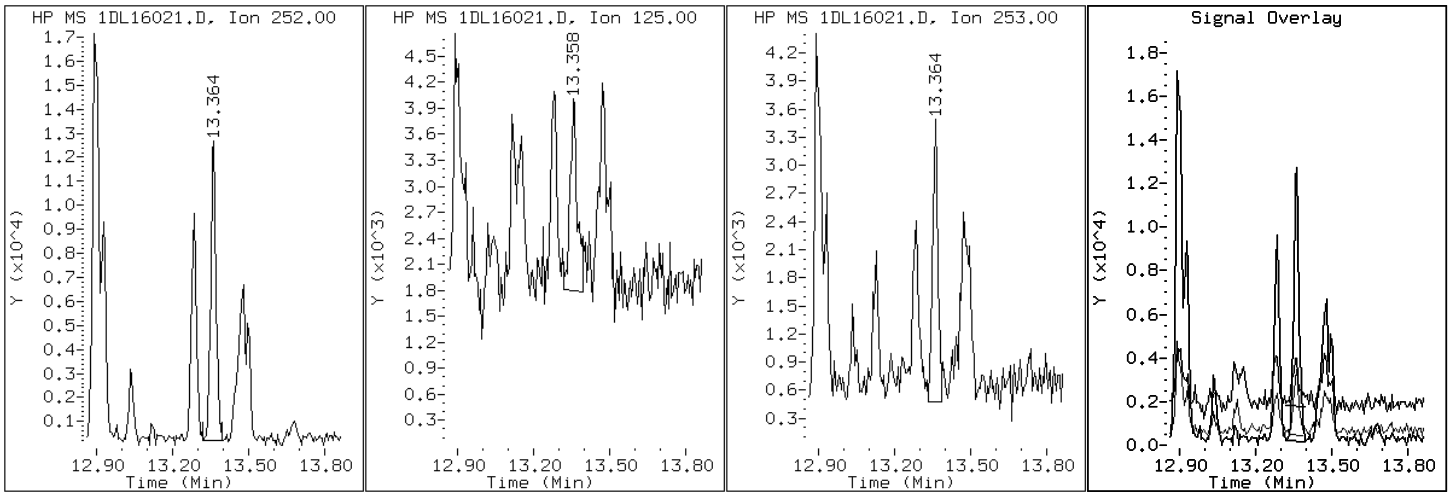
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

21 Benzo(a)pyrene



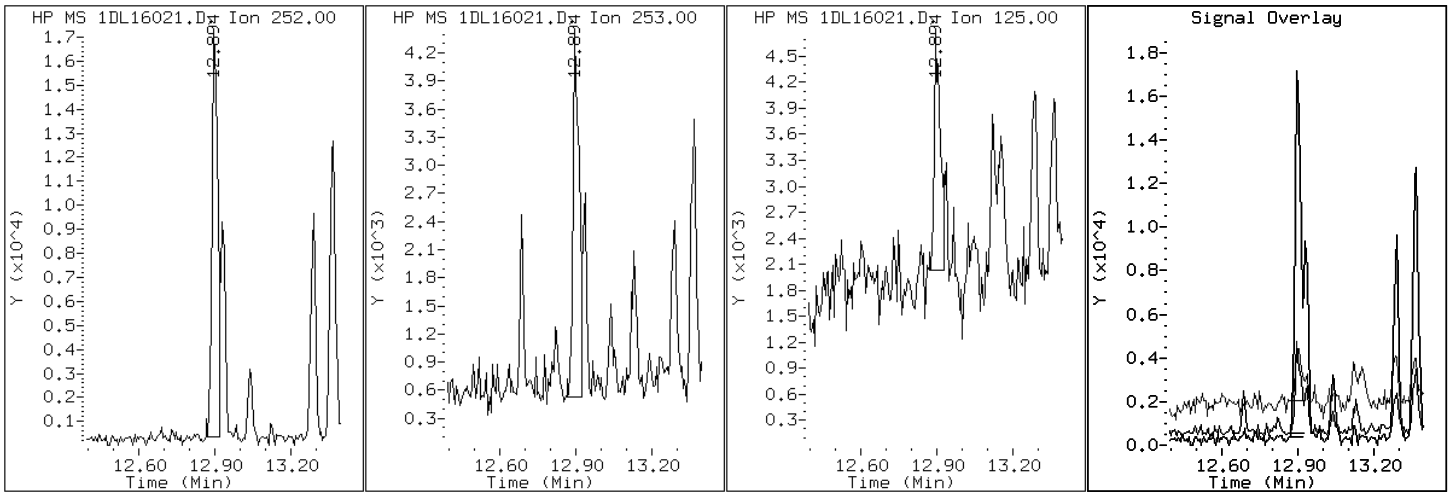
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

19 Benzo(b)fluoranthene



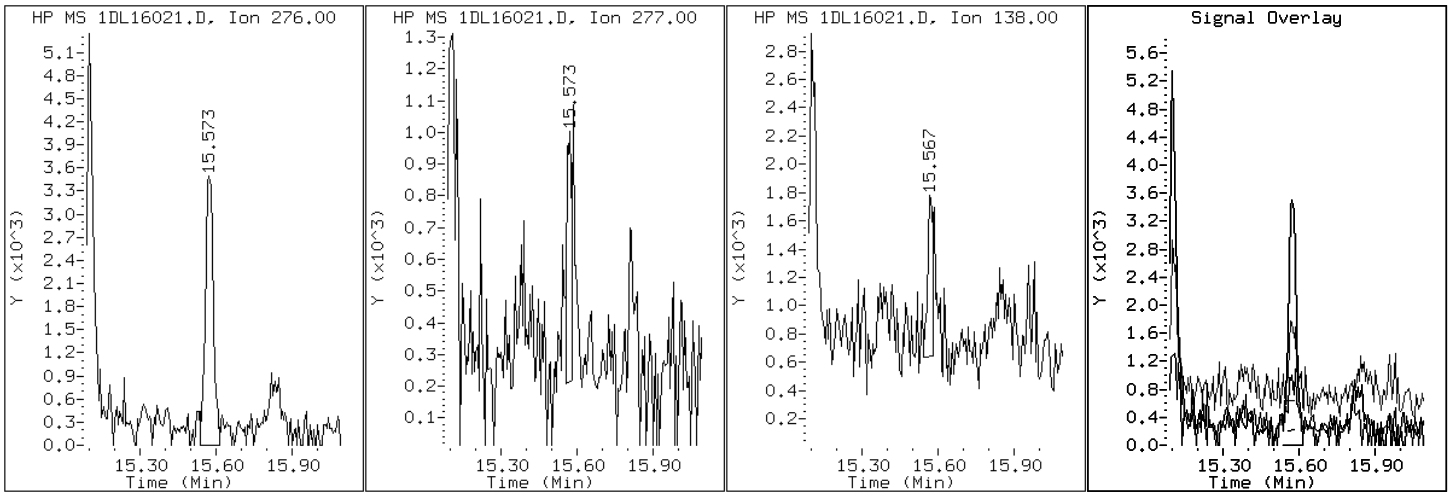
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

25 Benzo(g,h,i)perylene



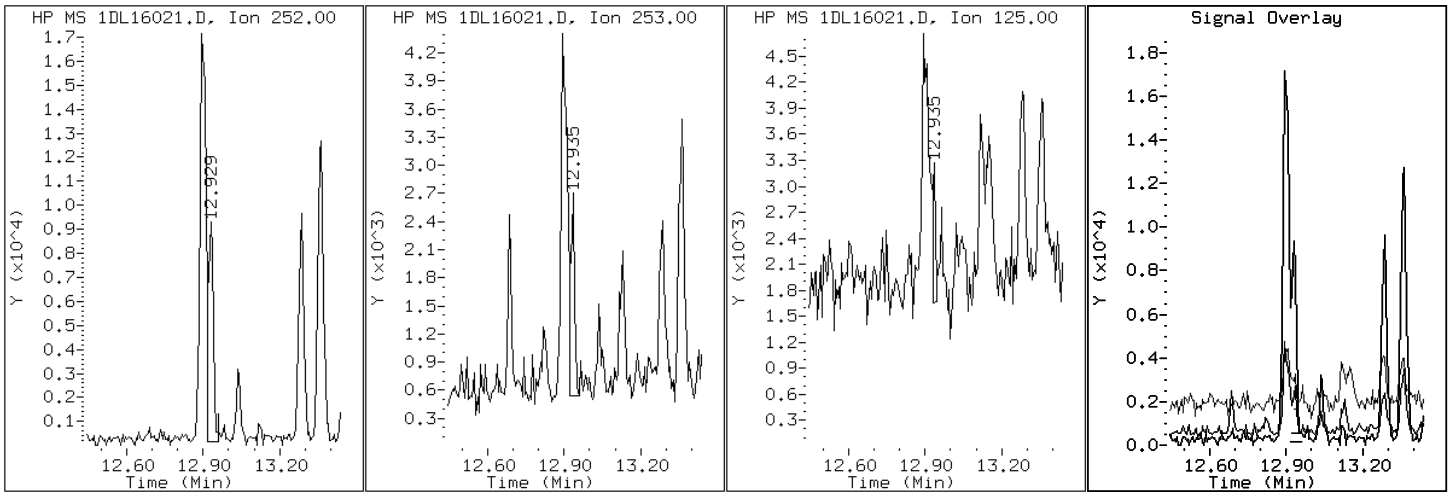
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

20 Benzo(k)fluoranthene



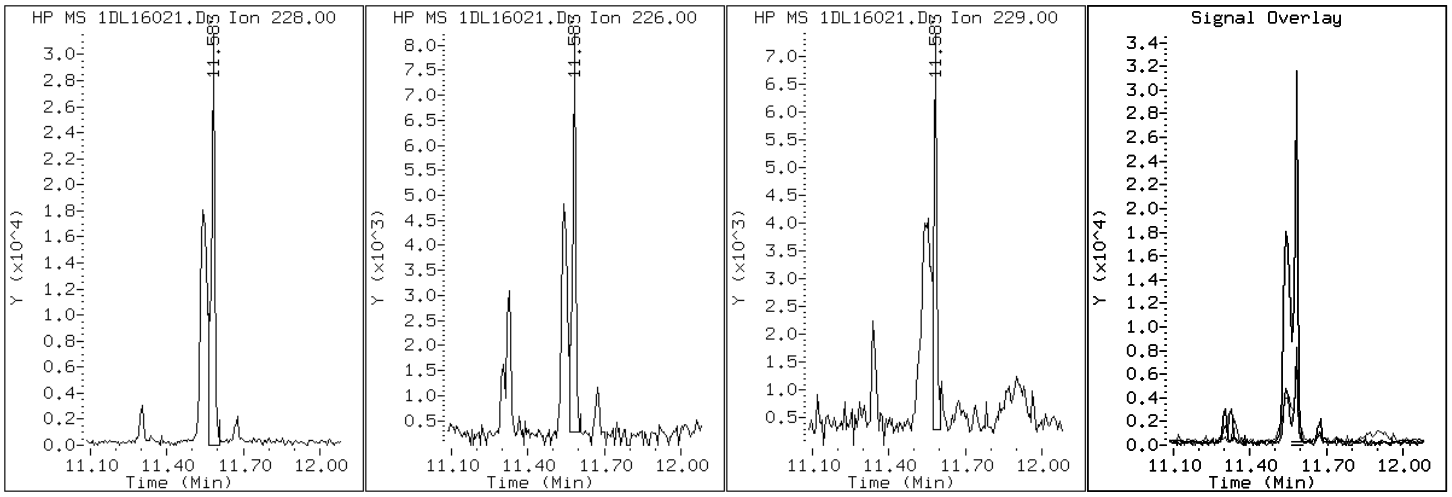
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

18 Chrysene



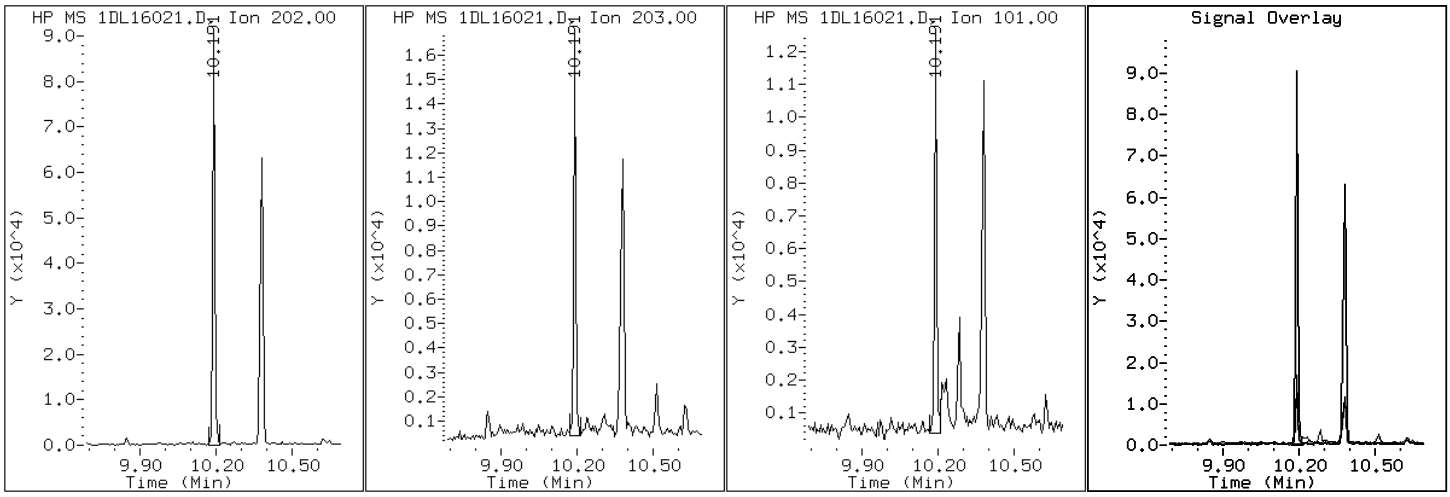
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

14 Fluoranthene



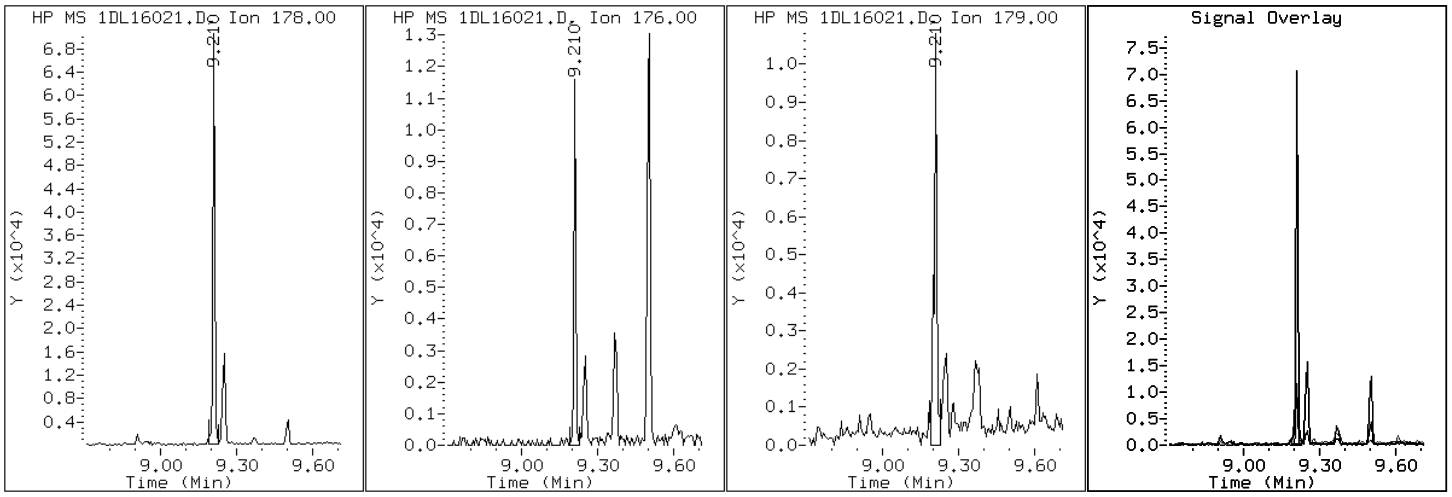
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

10 Phenanthrene



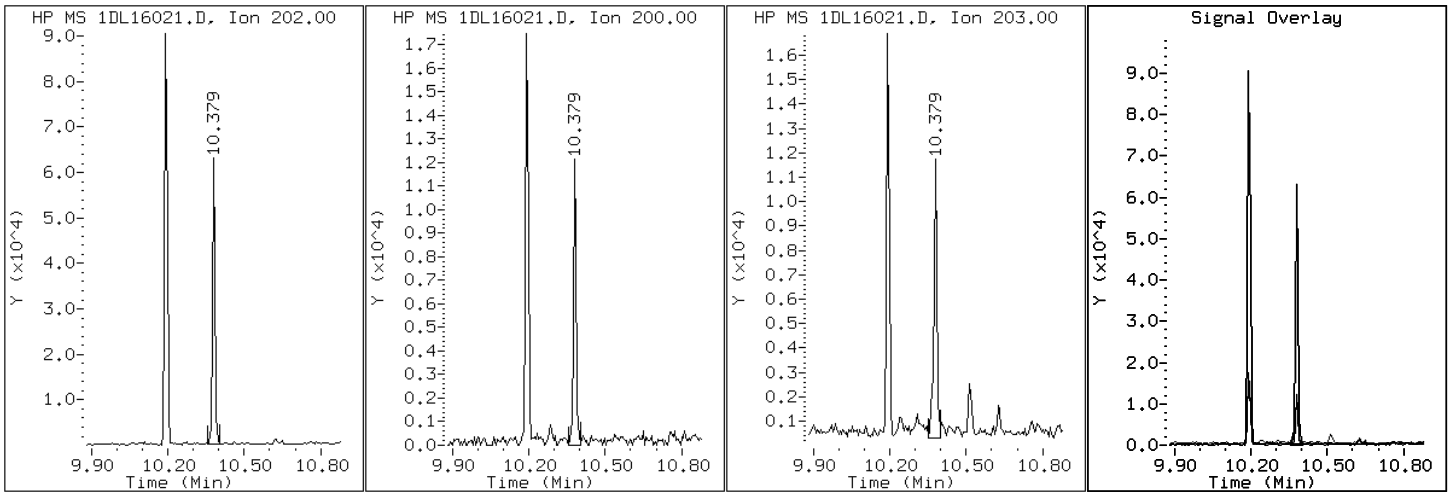
Data File: 1DL16021.D

Date: 16-DEC-2012 17:27

Client ID: FM0165D-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-21-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16021.D
Inj. Date and Time: 16-DEC-2012 17:27
Instrument ID: BSMSD.i
Client ID: FM0165D-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

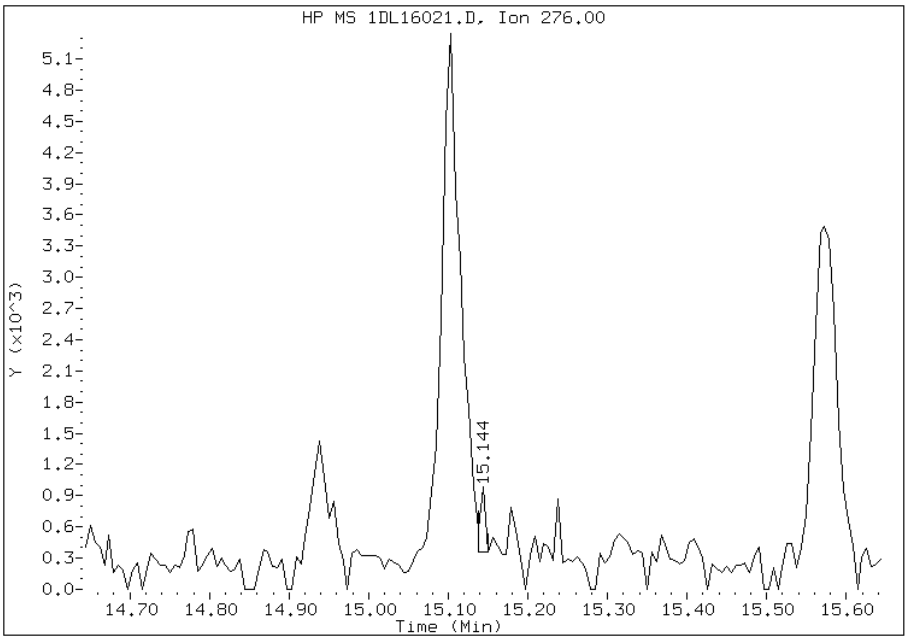
Processing Integration Results

RT: 15.14

Response: 300

Amount: 0

Conc: 0



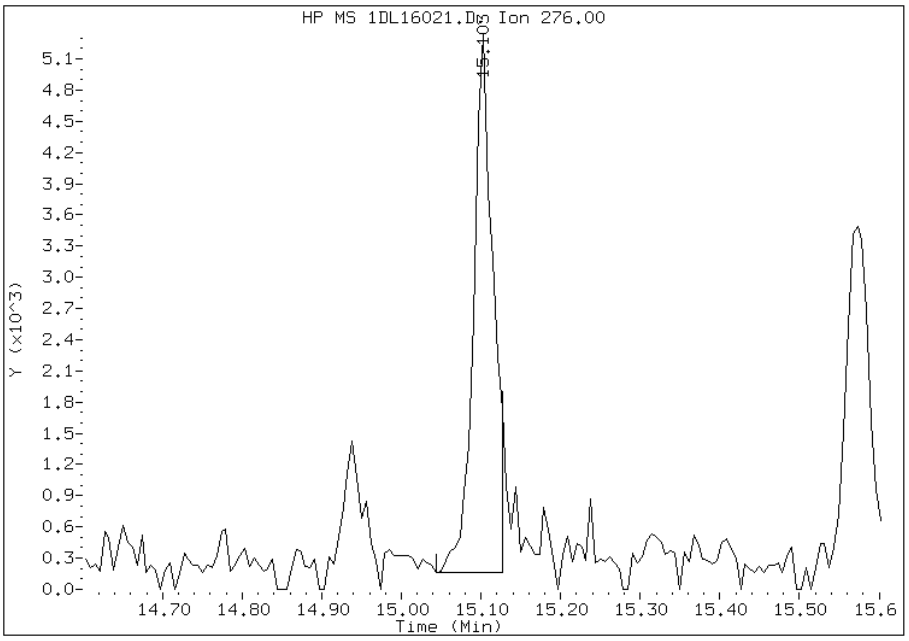

Manual Integration Results

RT: 15.10

Response: 8890

Amount: 0

Conc: 8




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165E-CS | Lab Sample ID: 680-85534-22

Matrix: Solid | Lab File ID: 1DL16022.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:20

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 14.98(g) | Date Analyzed: 12/16/2012 17:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 25 |
| 208-96-8 | Acenaphthylene | 50 | U | 50 | 6.3 |
| 120-12-7 | Anthracene | 11 | U | 11 | 5.3 |
| 56-55-3 | Benzo[a]anthracene | 21 | | 10 | 4.9 |
| 50-32-8 | Benzo[a]pyrene | 13 | | 13 | 6.5 |
| 205-99-2 | Benzo[b]fluoranthene | 21 | | 15 | 7.7 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.0 | J | 25 | 5.5 |
| 207-08-9 | Benzo[k]fluoranthene | 6.9 | J | 10 | 4.5 |
| 218-01-9 | Chrysene | 18 | | 11 | 5.7 |
| 53-70-3 | Dibenz(a,h)anthracene | 5.8 | J | 25 | 5.2 |
| 206-44-0 | Fluoranthene | 31 | | 25 | 5.0 |
| 86-73-7 | Fluorene | 25 | U | 25 | 5.2 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 25 | U | 25 | 8.9 |
| 90-12-0 | 1-Methylnaphthalene | 50 | U | 50 | 5.5 |
| 91-57-6 | 2-Methylnaphthalene | 50 | U | 50 | 8.9 |
| 91-20-3 | Naphthalene | 50 | U | 50 | 5.5 |
| 85-01-8 | Phenanthrene | 22 | | 10 | 4.9 |
| 129-00-0 | Pyrene | 23 | J | 25 | 4.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 58 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16022.D
Lab Smp Id: 680-85534-A-22-A  Client Smp ID: FM0165E-CS
Inj Date  : 16-DEC-2012 17:50
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-22-A
Misc Info : 680-85534-A-22-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.980 | Weight Extracted |
| M | 20.371 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.265 | 6.265 | (1.000) | 4277304 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.934 | 7.934 | (1.000) | 2560915 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.197 | 9.191 | (1.000) | 4024454 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.503 | 9.503 | (1.033) | 365005 | 5.75024 | 480 |
| * 17 Chrysene-d12 | 240 | 11.565 | 11.553 | (1.000) | 3969177 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.480 | 13.463 | (1.000) | 3841279 | 40.0000 | |
| 2 Naphthalene | 128 | 6.289 | 6.283 | (1.004) | 4551 | 0.04098 | 3.4 |
| 10 Phenanthrene | 178 | 9.209 | 9.209 | (1.001) | 30234 | 0.26256 | 22 |
| 11 Anthracene | 178 | 9.250 | 9.250 | (1.006) | 5448 | 0.04719 | 4.0 |
| 12 Carbazole | 167 | 9.385 | 9.379 | (1.020) | 5472 | 0.05354 | 4.5(Q) |
| 14 Fluoranthene | 202 | 10.190 | 10.190 | (1.108) | 42501 | 0.36519 | 31 |
| 15 Pyrene | 202 | 10.378 | 10.378 | (0.897) | 34866 | 0.27542 | 23 |
| 16 Benzo(a)anthracene | 228 | 11.547 | 11.530 | (0.998) | 26214 | 0.24472 | 20 |
| 18 Chrysene | 228 | 11.583 | 11.583 | (1.002) | 24507 | 0.21794 | 18 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 19 Benzo(b)fluoranthene | 252 | 12.899 | 12.893 | (0.957) | 23809 | 0.25253 | 21 |
| 20 Benzo(k)fluoranthene | 252 | 12.928 | 12.940 | (0.959) | 8547 | 0.08182 | 6.8(H) |
| 21 Benzo(a)pyrene | 252 | 13.363 | 13.363 | (0.991) | 14153 | 0.15045 | 13 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.108 | 15.114 | (1.121) | 6825 | 0.07356 | 6.2(QMH) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.155 | 15.149 | (1.124) | 6296 | 0.06913 | 5.8(MH) |
| 25 Benzo(g,h,i)perylene | 276 | 15.572 | 15.590 | (1.155) | 7999 | 0.08374 | 7.0(MH) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16022.D

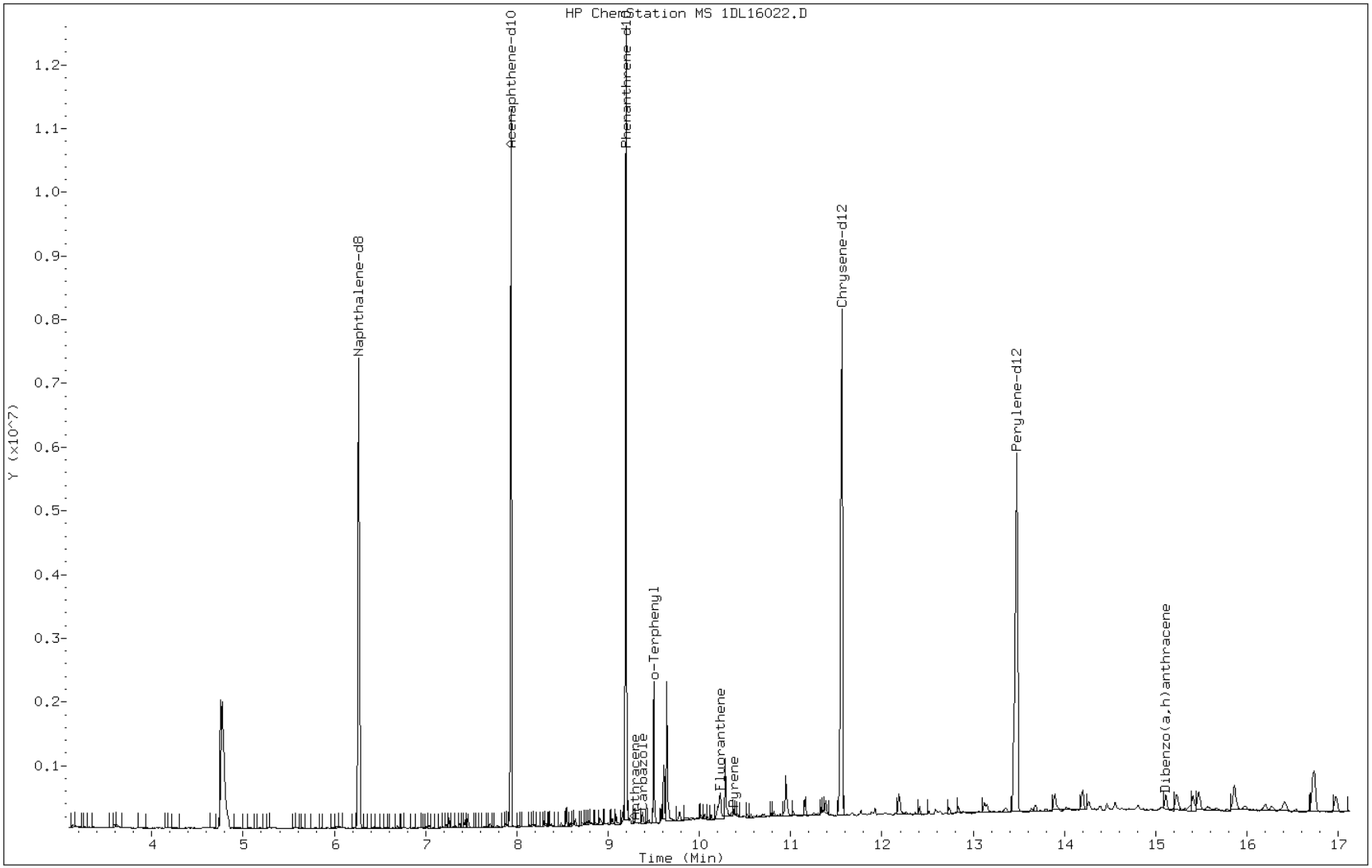
Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A

Operator: SCC



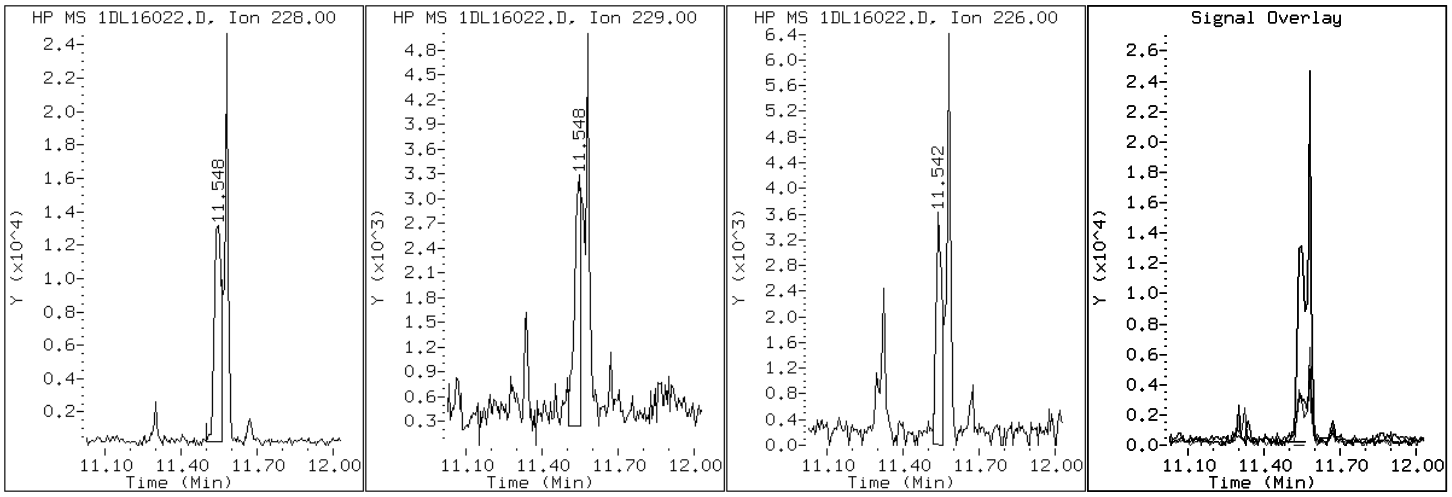
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

16 Benzo(a)anthracene



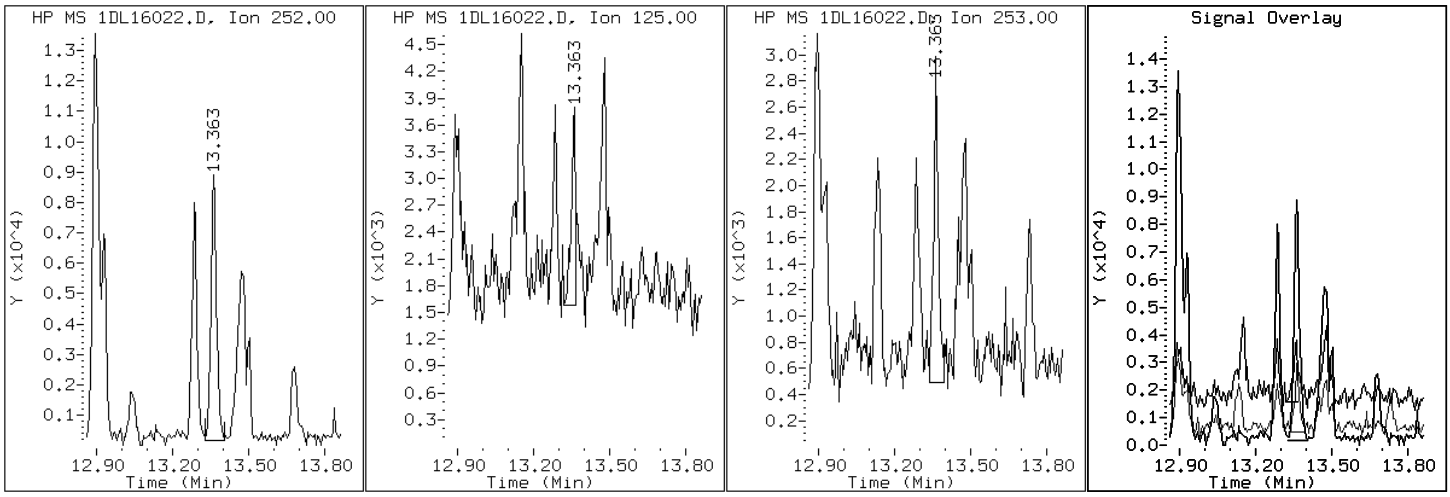
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

21 Benzo(a)pyrene



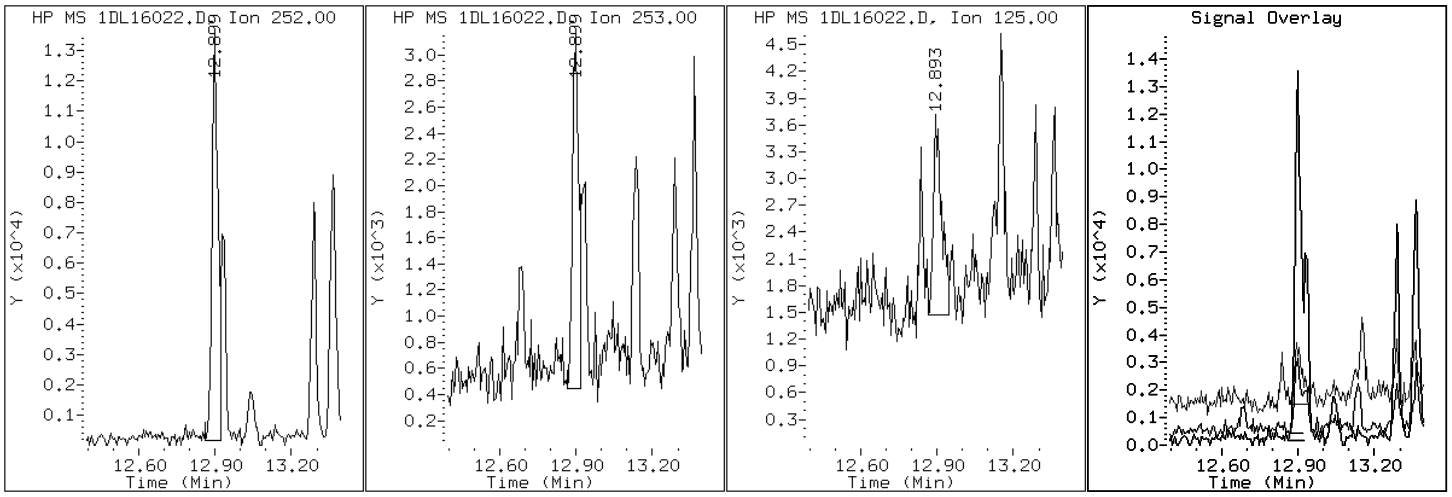
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A  Operator: SCC

19 Benzo(b)fluoranthene



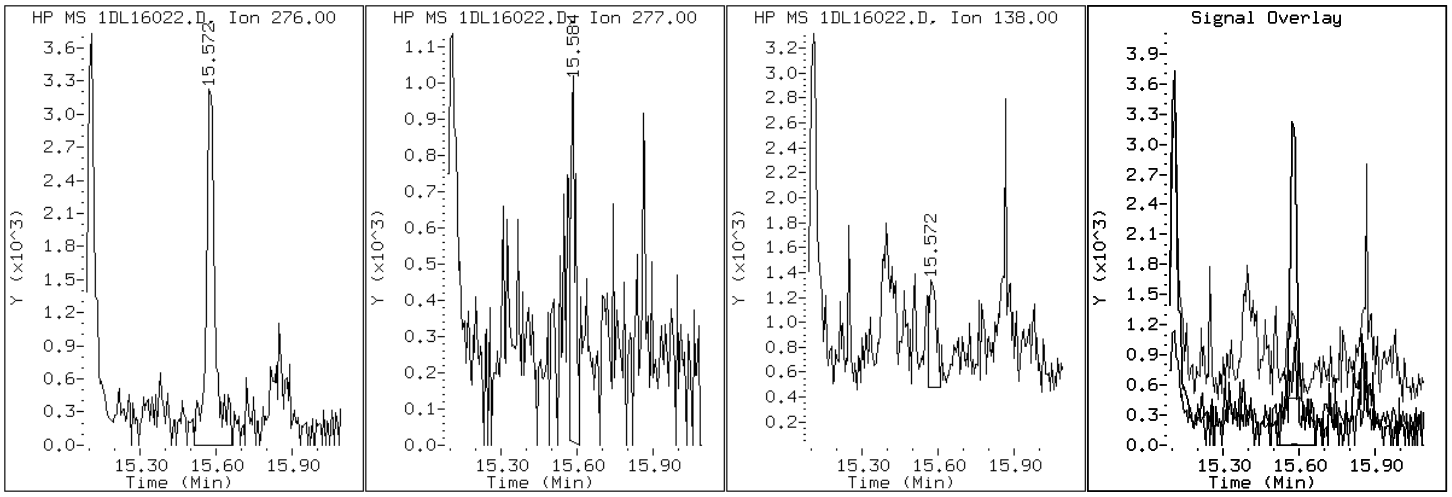
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

25 Benzo(g,h,i)perylene



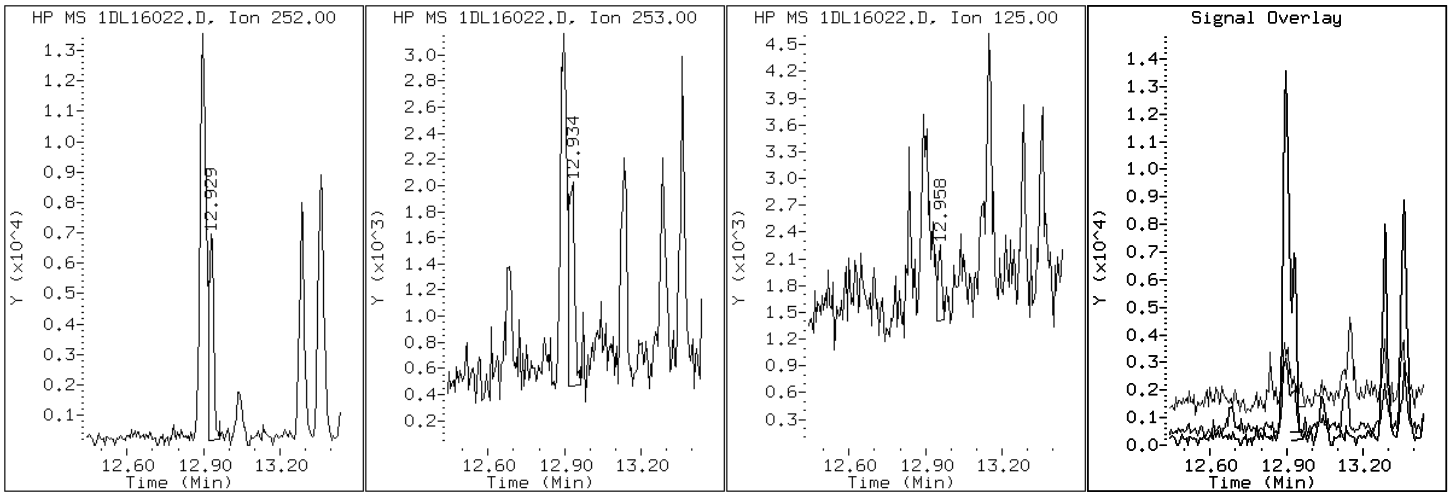
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

20 Benzo(k)fluoranthene



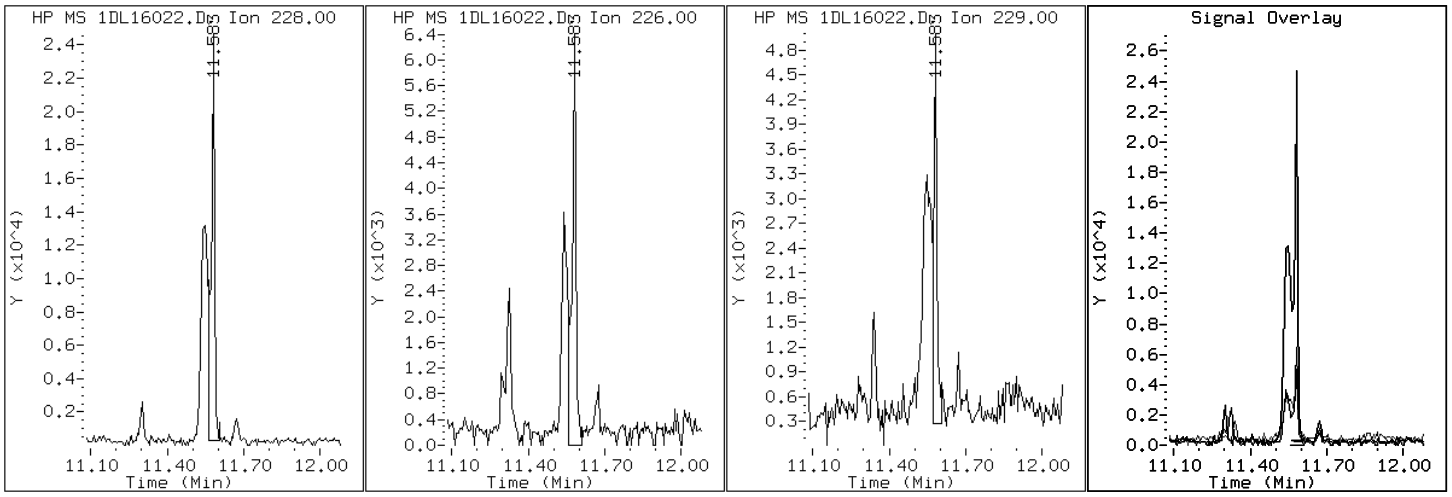
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

18 Chrysene



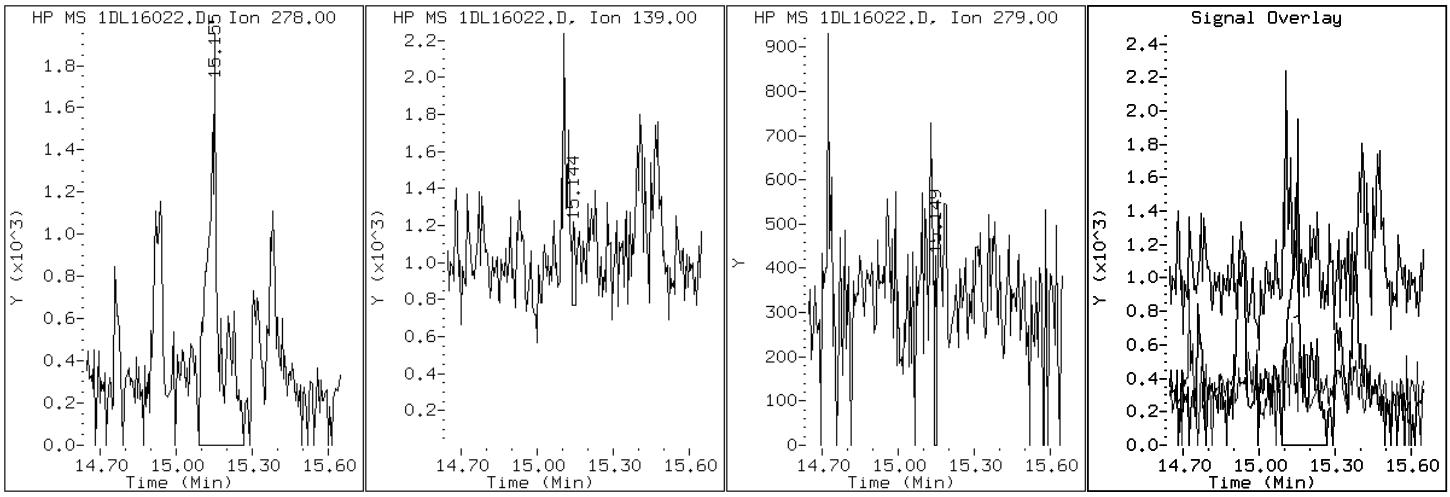
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

24 Dibenzo(a,h)anthracene



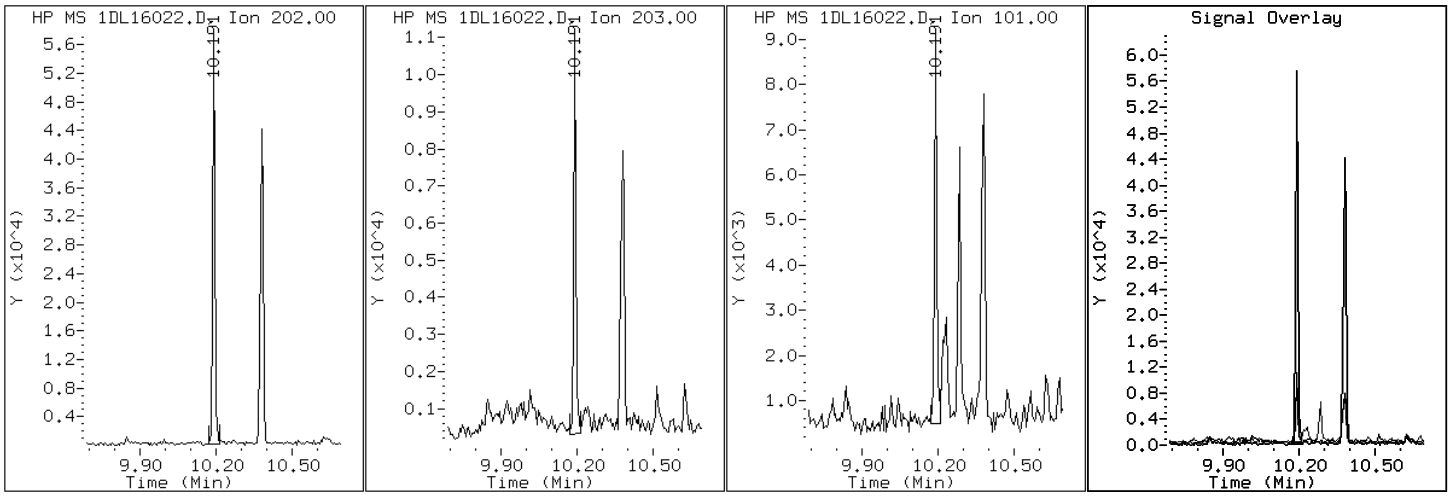
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

14 Fluoranthene



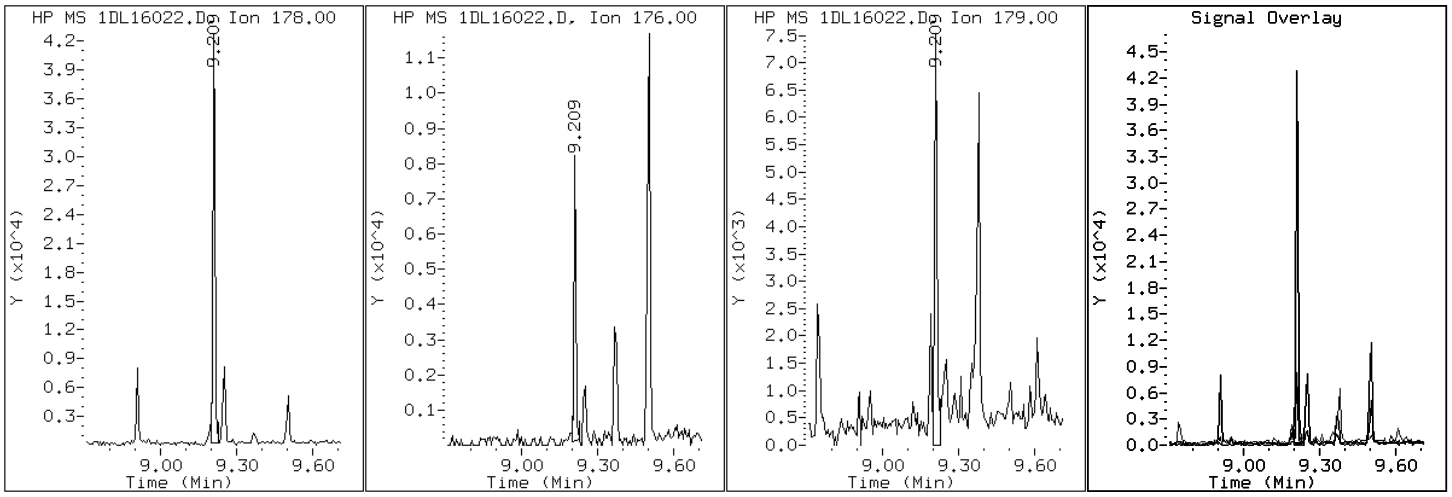
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

10 Phenanthrene



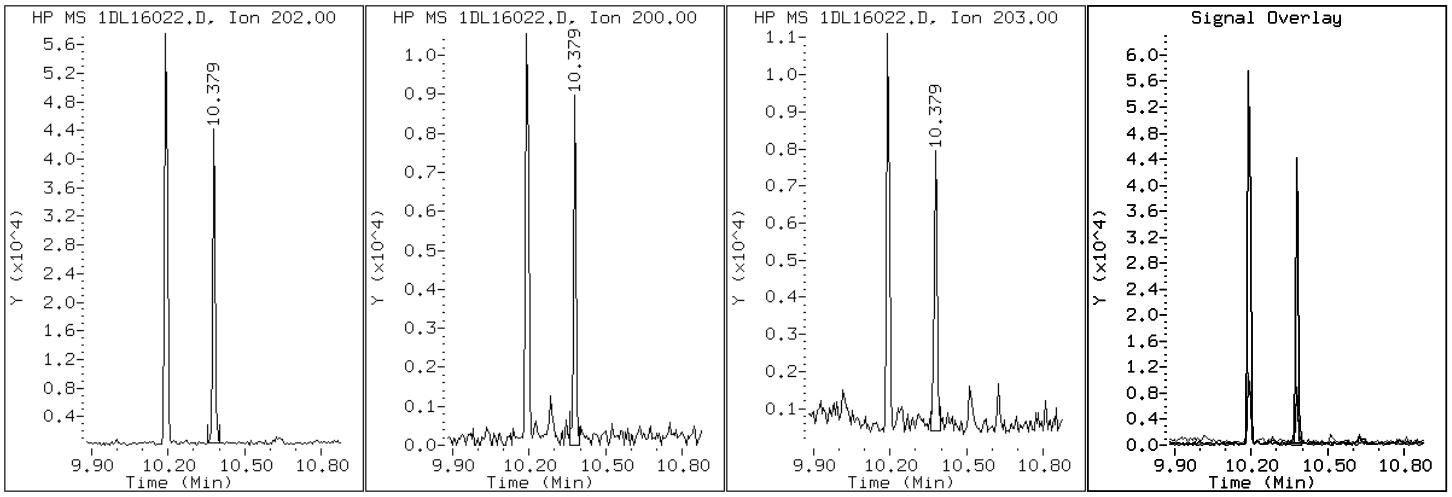
Data File: 1DL16022.D

Date: 16-DEC-2012 17:50

Client ID: FM0165E-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-22-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16022.D
Inj. Date and Time: 16-DEC-2012 17:50
Instrument ID: BSMSD.i
Client ID: FM0165E-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

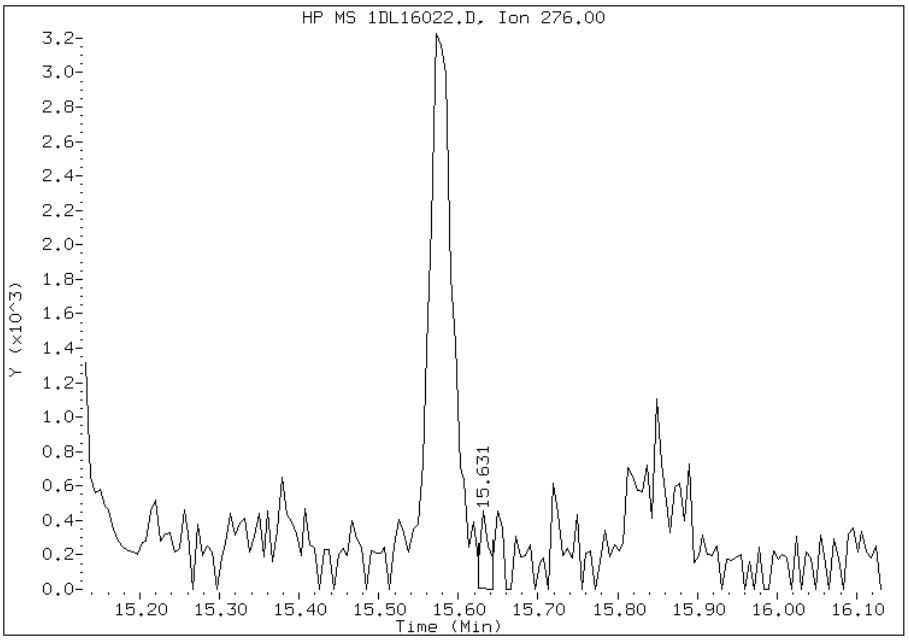
Processing Integration Results

RT: 15.63

Response: 368

Amount: 0

Conc: 0



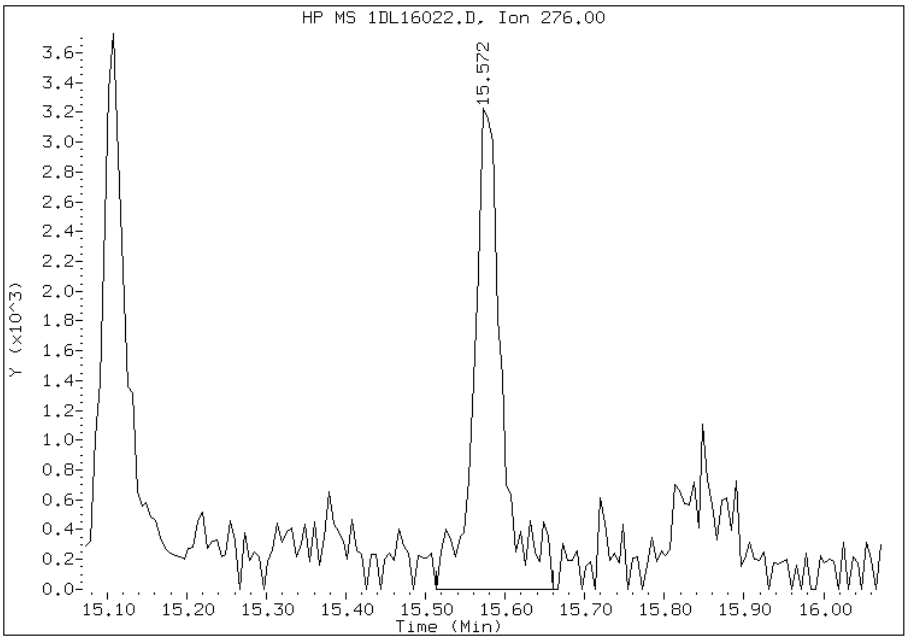

Manual Integration Results

RT: 15.57

Response: 7999

Amount: 0

Conc: 7




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16022.D
Inj. Date and Time: 16-DEC-2012 17:50
Instrument ID: BSMSD.i
Client ID: FM0165E-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/18/2012

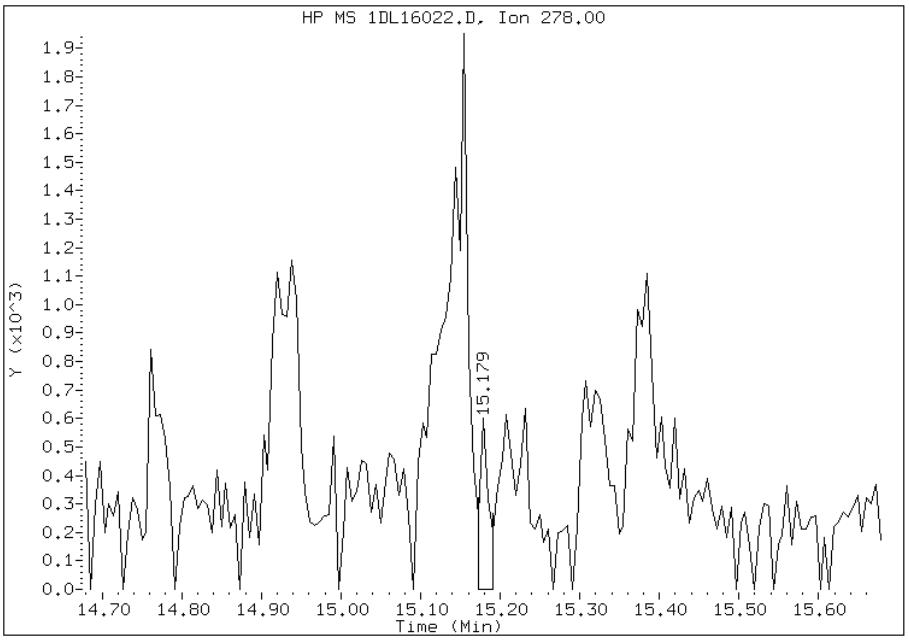
Processing Integration Results

RT: 15.18

Response: 487

Amount: 0

Conc: 0



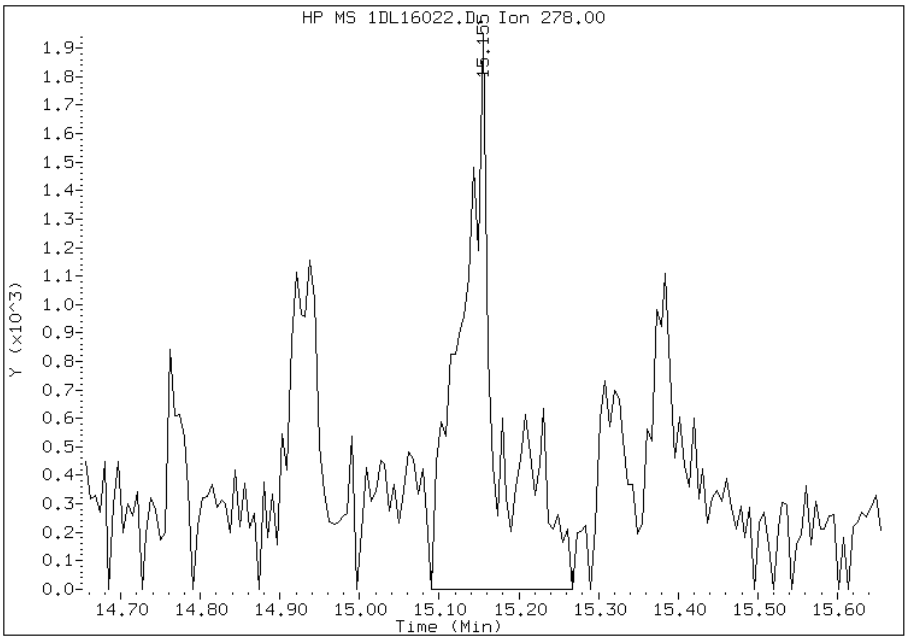

Manual Integration Results

RT: 15.16

Response: 6296

Amount: 0

Conc: 6




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16022.D
Inj. Date and Time: 16-DEC-2012 17:50
Instrument ID: BSMSD.i
Client ID: FM0165E-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

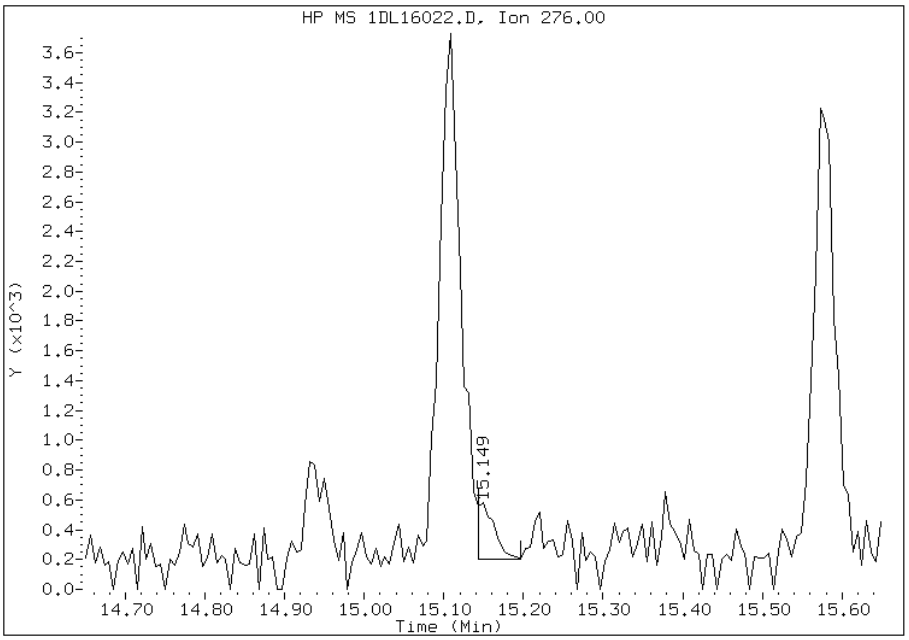
Processing Integration Results

RT: 15.15

Response: 558

Amount: 0

Conc: 1



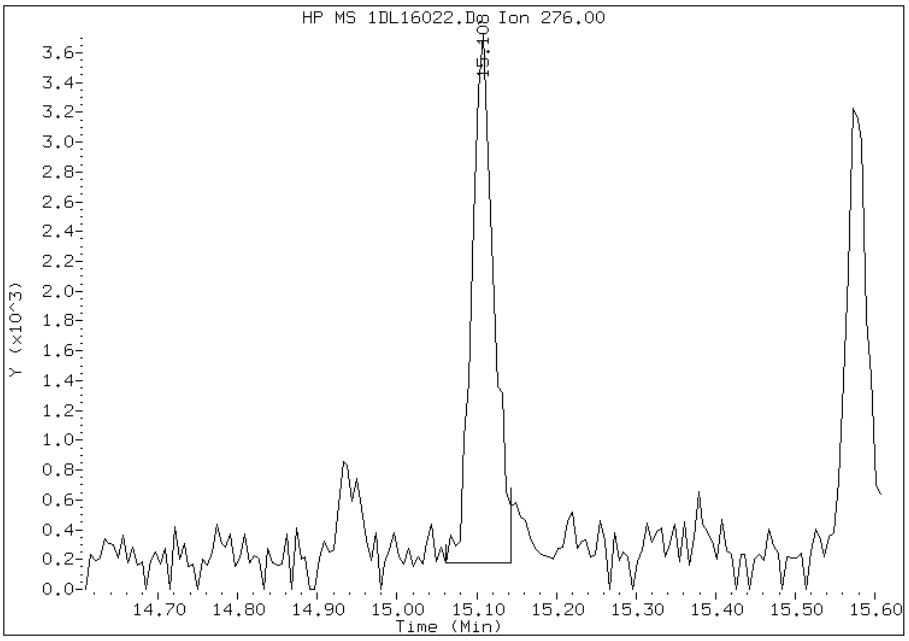

Manual Integration Results

RT: 15.11

Response: 6825

Amount: 0

Conc: 6




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:05
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165F-CS | Lab Sample ID: 680-85534-23

Matrix: Solid | Lab File ID: 1DL16023.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:28

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.03(g) | Date Analyzed: 12/16/2012 18:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 2400 | | 130 | 26 |
| 208-96-8 | Acenaphthylene | 220 | | 53 | 6.6 |
| 53-70-3 | Dibenz(a,h)anthracene | 3200 | | 26 | 5.4 |
| 86-73-7 | Fluorene | 2100 | | 26 | 5.4 |
| 90-12-0 | 1-Methylnaphthalene | 1100 | | 53 | 5.8 |
| 91-57-6 | 2-Methylnaphthalene | 1300 | | 53 | 9.3 |
| 91-20-3 | Naphthalene | 730 | | 53 | 5.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16023.D
Lab Smp Id: 680-85534-A-23-A  Client Smp ID: FM0165F-CS
Inj Date : 16-DEC-2012 18:13
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-23-A
Misc Info : 680-85534-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.030 | Weight Extracted |
| M | 24.119 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.267 | 6.265 | (1.000) | 4251639 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.935 | 7.934 | (1.000) | 2518772 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.234 | 9.191 | (1.000) | 3585334 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.510 | 9.503 | (1.030) | 361922 | 6.40000 | 560(H) |
| * 17 Chrysene-d12 | 240 | 11.661 | 11.553 | (1.000) | 3570259 | 40.0000 | (H) |
| * 22 Perylene-d12 | 264 | 13.594 | 13.463 | (1.000) | 3670857 | 40.0000 | (H) |
| 2 Naphthalene | 128 | 6.290 | 6.283 | (1.004) | 923749 | 8.36751 | 730 |
| 3 2-Methylnaphthalene | 142 | 6.984 | 6.982 | (1.114) | 1042716 | 14.6287 | 1300 |
| 4 1-Methylnaphthalene | 142 | 7.078 | 7.076 | (1.129) | 853703 | 12.6334 | 1100 |
| 5 Acenaphthylene | 152 | 7.806 | 7.805 | (0.984) | 271358 | 2.46632 | 220 |
| 7 Acenaphthene | 154 | 7.965 | 7.958 | (1.004) | 1836554 | 27.5549 | 2400 |
| 8 Fluorene | 166 | 8.406 | 8.398 | (1.059) | 1837339 | 23.3878 | 2000 |
| 10 Phenanthrene | 178 | 9.228 | 9.209 | (0.999) | 37078552 | 361.433 | 32000(AM) |
| 11 Anthracene | 178 | 9.299 | 9.250 | (1.007) | 9097735 | 88.4578 | 7800(AM) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 12 Carbazole | 167 | 9.422 | 9.379 | (1.020) | 12072300 | 132.587 | 12000(A) |
| 14 Fluoranthene | 202 | 10.227 | 10.190 | (1.108) | 37667643 | 363.303 | 32000(AM) |
| 15 Pyrene | 202 | 10.433 | 10.378 | (0.895) | 34321939 | 301.421 | 26000(AM) |
| 16 Benzo(a)anthracene | 228 | 11.655 | 11.530 | (0.999) | 35921189 | 372.804 | 33000(AH) |
| 18 Chrysene | 228 | 11.690 | 11.583 | (1.003) | 21858528 | 216.107 | 19000(AM) |
| 19 Benzo(b)fluoranthene | 252 | 13.065 | 12.893 | (0.961) | 37063770 | 411.369 | 36000(AH) |
| 20 Benzo(k)fluoranthene | 252 | 13.100 | 12.940 | (0.964) | 6177549 | 61.8825 | 5400(AH) |
| 21 Benzo(a)pyrene | 252 | 13.535 | 13.363 | (0.996) | 17093667 | 190.144 | 17000(AH) |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.297 | 15.114 | (1.125) | 7807116 | 88.0496 | 7700(AMH) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.309 | 15.149 | (1.126) | 3192358 | 36.6791 | 3200(H) |
| 25 Benzo(g,h,i)perylene | 276 | 15.773 | 15.590 | (1.160) | 6323826 | 69.2785 | 6100(AH) |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16023.D

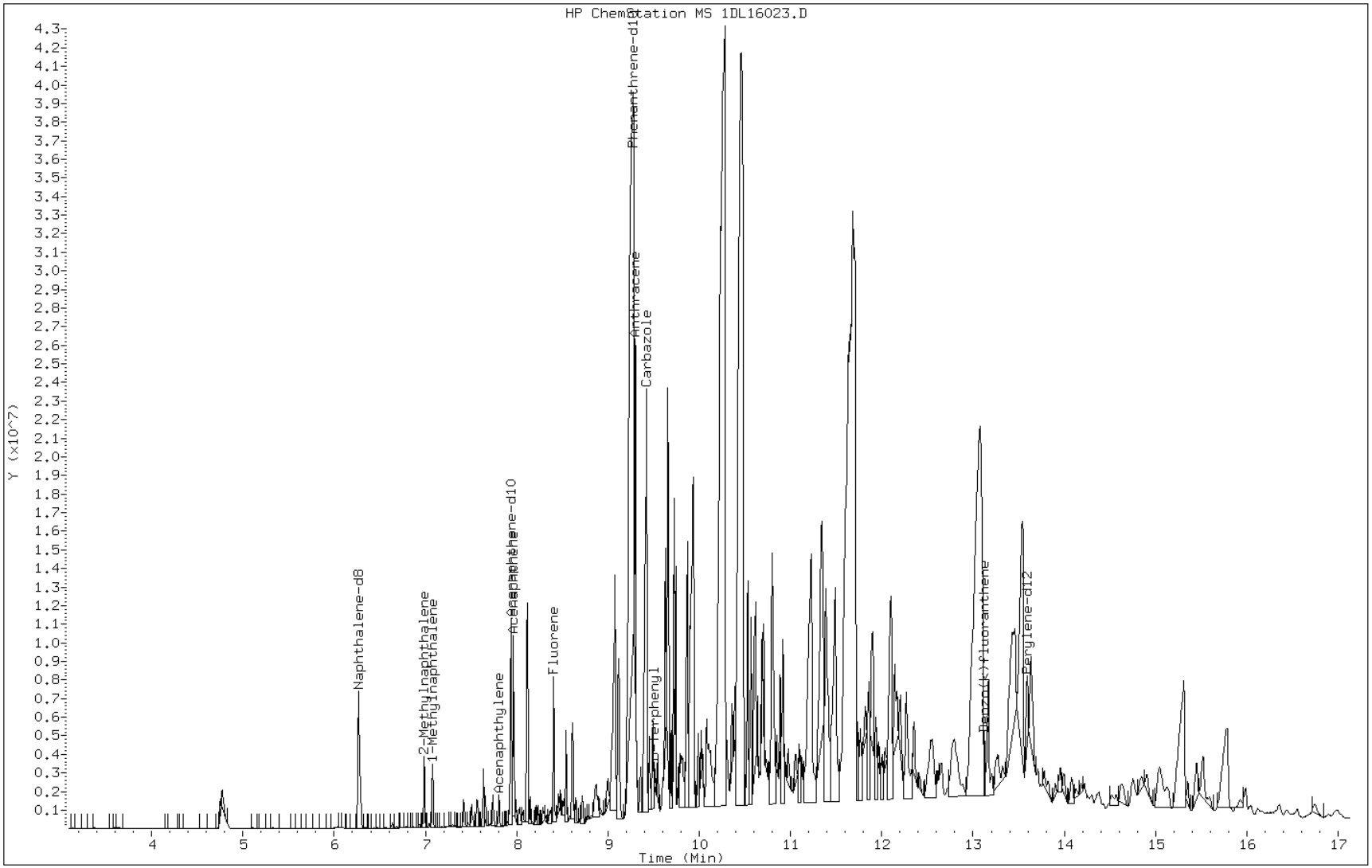
Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A

Operator: SCC



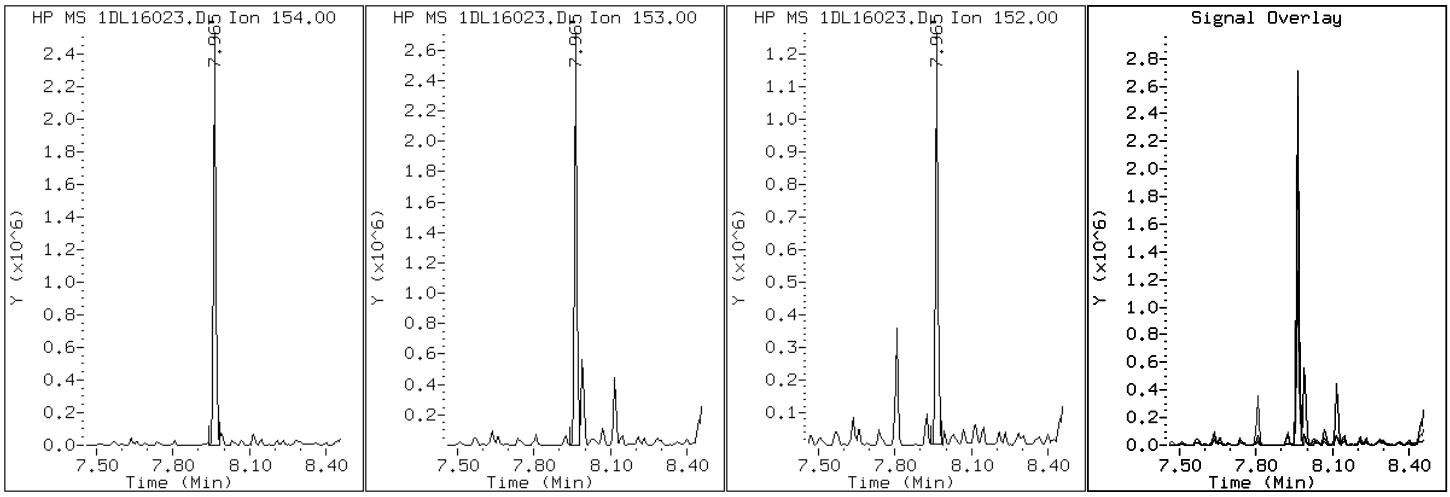
Data File: 1DL16023.D

Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A  Operator: SCC

7 Acenaphthene



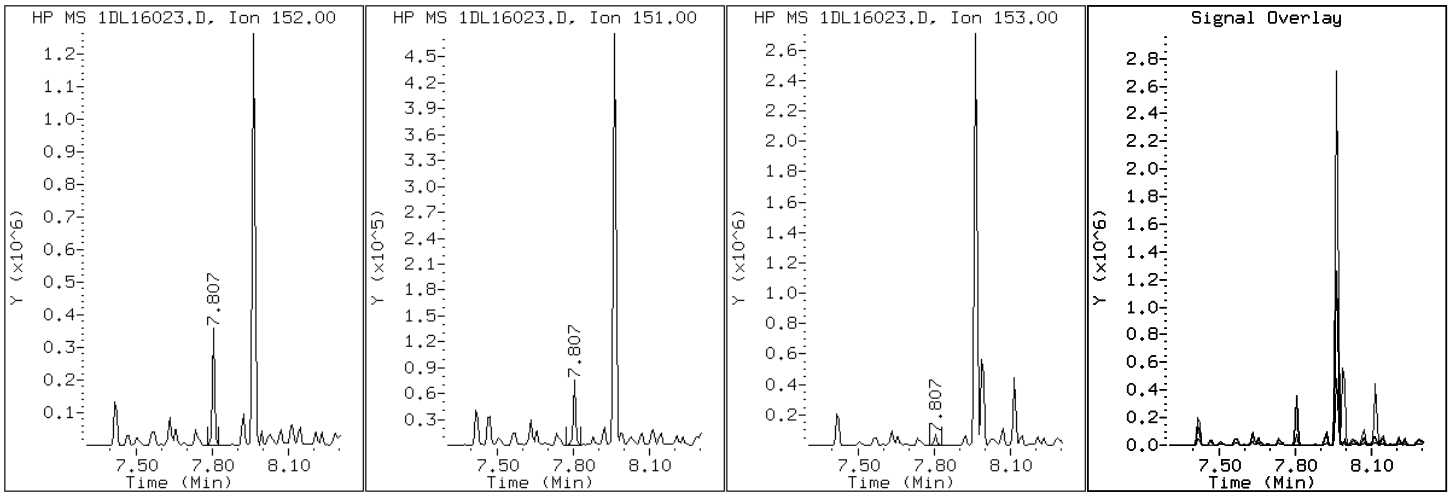
Data File: 1DL16023.D

Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A  Operator: SCC

5 Acenaphthylene



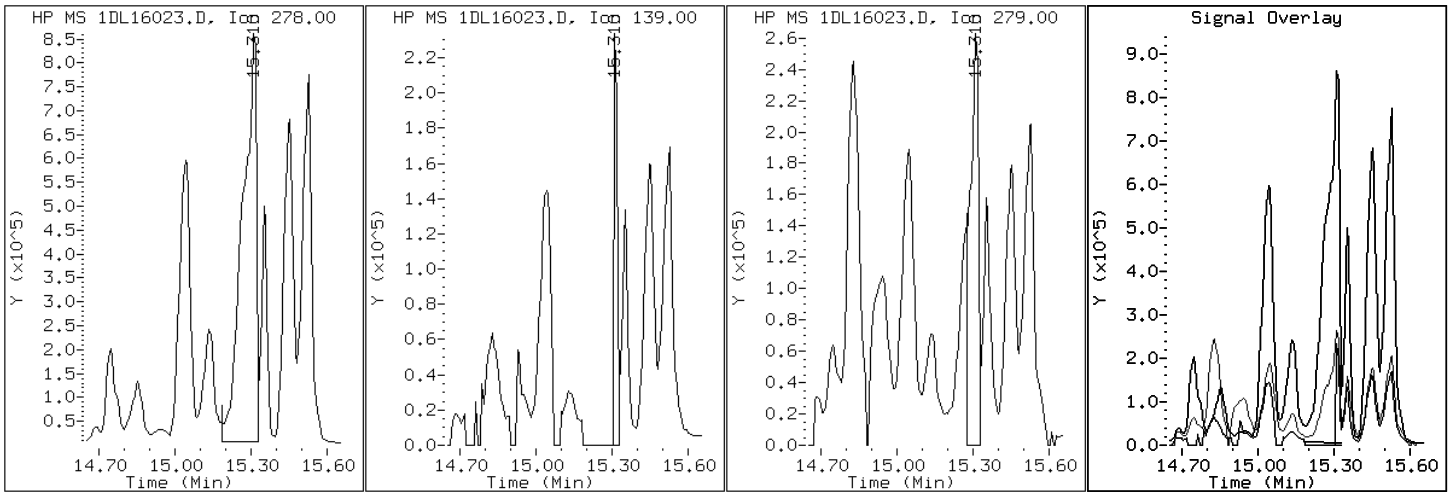
Data File: 1DL16023.D

Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A Operator: SCC

24 Dibenzo(a,h)anthracene



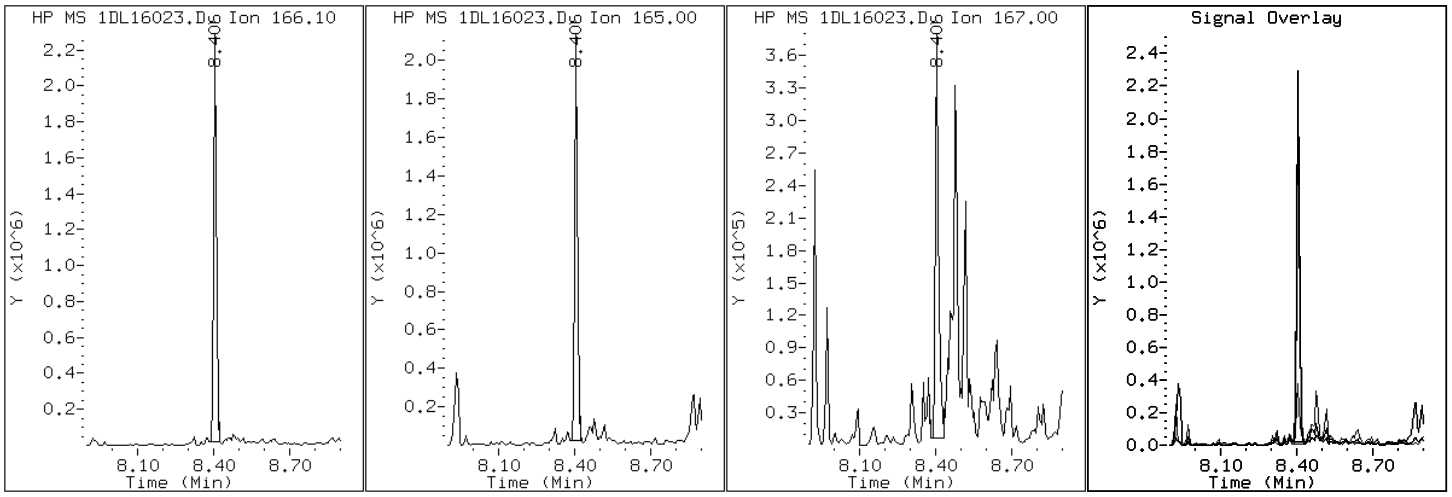
Data File: 1DL16023.D

Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A Operator: SCC

8 Fluorene



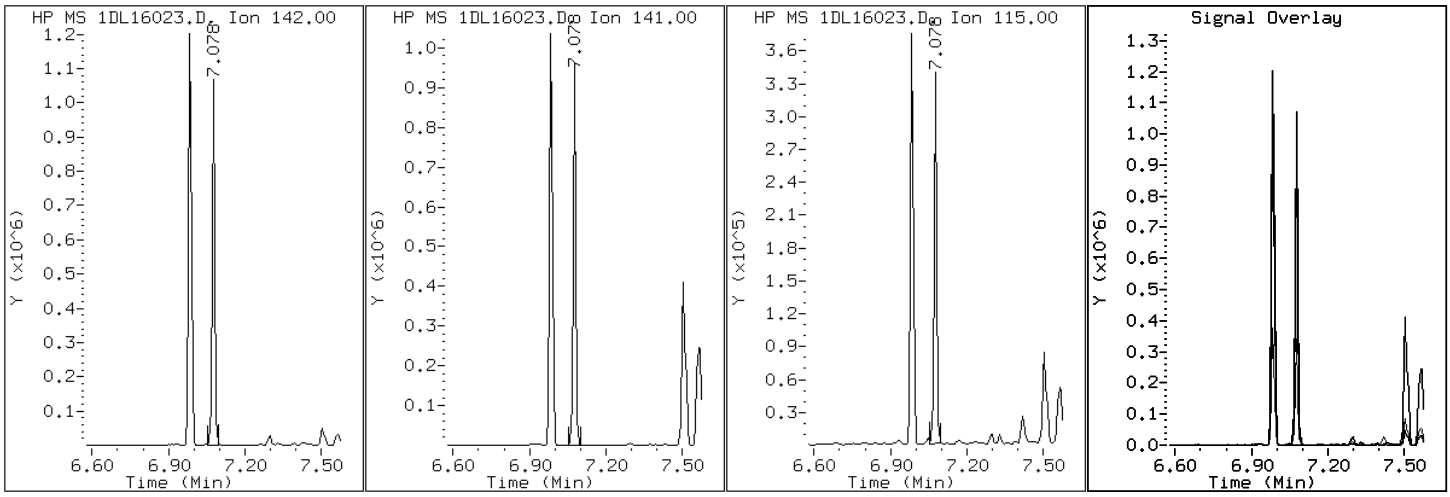
Data File: 1DL16023.D

Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A Operator: SCC

4 1-Methylnaphthalene



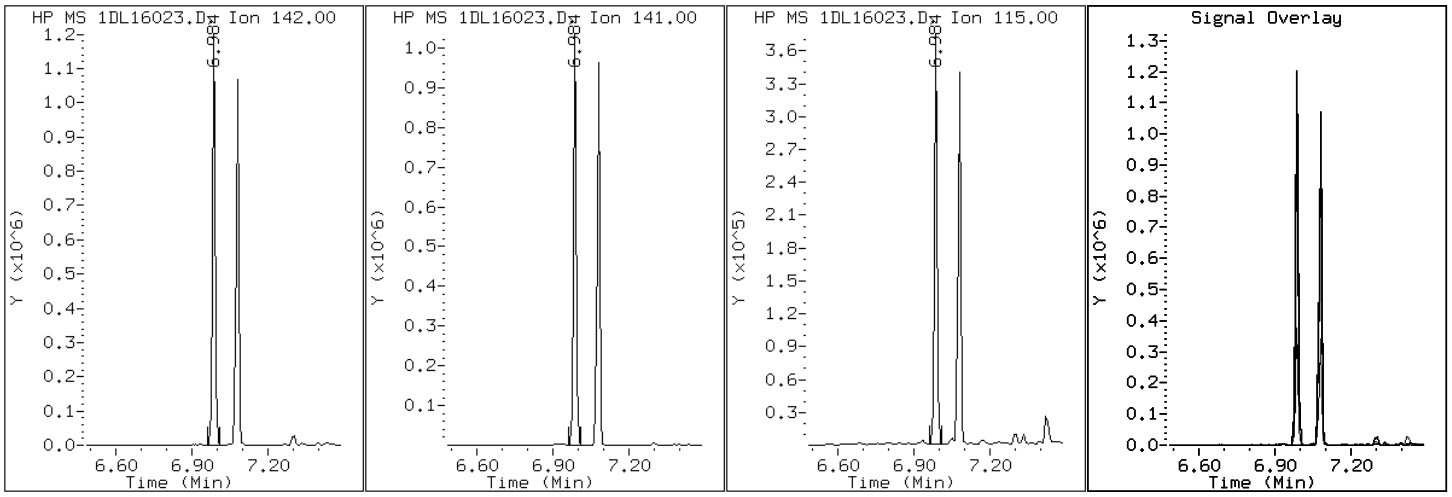
Data File: 1DL16023.D

Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A  Operator: SCC

3 2-Methylnaphthalene



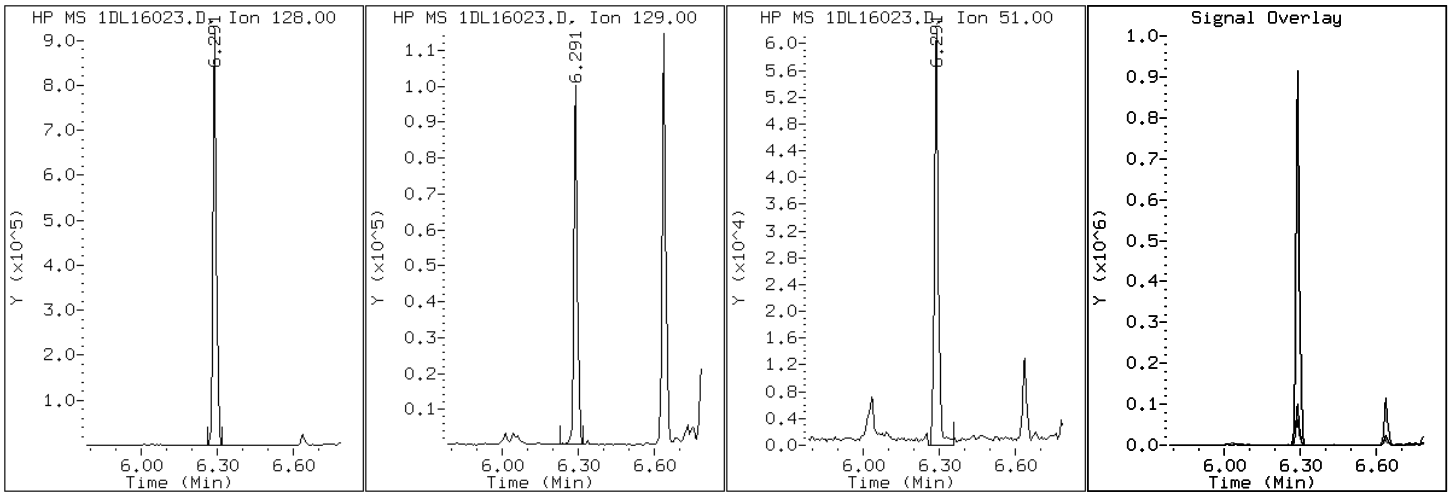
Data File: 1DL16023.D

Date: 16-DEC-2012 18:13

Client ID: FM0165F-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-23-A  Operator: SCC

2 Naphthalene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165F-CS DL | Lab Sample ID: 680-85534-23 DL

Matrix: Solid | Lab File ID: 1CL18020.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:28

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.03(g) | Date Analyzed: 12/18/2012 16:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132652 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 120-12-7 | Anthracene | 13000 | | 110 | 55 |
| 56-55-3 | Benzo[a]anthracene | 30000 | | 110 | 51 |
| 50-32-8 | Benzo[a]pyrene | 23000 | | 140 | 68 |
| 205-99-2 | Benzo[b]fluoranthene | 37000 | | 160 | 80 |
| 191-24-2 | Benzo[g,h,i]perylene | 12000 | | 260 | 58 |
| 207-08-9 | Benzo[k]fluoranthene | 16000 | | 110 | 47 |
| 218-01-9 | Chrysene | 37000 | | 120 | 59 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 11000 | | 260 | 93 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\1CL18020.D
Lab Smp Id: 680-85534-A-23-A  Client Smp ID: FM0165F-CS
Inj Date : 18-DEC-2012 16:59
Operator : SCC  Inst ID: BSMC5973.i
Smp Info : 680-85534-a-23-a
Misc Info : 680-85534-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\a-bFASTPAHi-m.m
Meth Date : 18-Dec-2012 11:48 cantins  Quant Type: ISTD
Cal Date : 29-NOV-2012 13:06  Cal File: 1CK29009.D
Als bottle: 20
Dil Factor: 10.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 10.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.030 | Weight Extracted |
| M | 24.119 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.904 | 3.904 | (1.000) | 3546248 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 4.992 | 4.992 | (1.000) | 2741475 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.957 | 5.957 | (1.000) | 5280239 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.204 | 6.204 | (1.041) | 51018 | 0.68034 | 596.5284 |
| * 18 Chrysene-d12 | 240 | 7.915 | 7.915 | (1.000) | 5181107 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.180 | 9.186 | (1.000) | 4805184 | 40.0000 | |
| 2 Naphthalene | 128 | 3.915 | 3.916 | (1.003) | 94456 | 0.98135 | 860.4589 |
| 3 2-Methylnaphthalene | 142 | 4.339 | 4.339 | (1.111) | 107406 | 1.84048 | 1613.7508 |
| 4 1-Methylnaphthalene | 142 | 4.404 | 4.404 | (1.128) | 93380 | 1.64516 | 1442.4973 |
| 5 Acenaphthylene | 152 | 4.904 | 4.904 | (0.982) | 22197 | 0.20527 | 179.9835 |
| 7 Acenaphthene | 154 | 5.010 | 5.010 | (1.004) | 241328 | 3.59637 | 3153.3353 |
| 9 Fluorene | 166 | 5.333 | 5.333 | (1.068) | 273421 | 3.15154 | 2763.3031 |
| 11 Phenanthrene | 178 | 5.968 | 5.968 | (1.002) | 7959768 | 51.7443 | 45369.9767(A) |
| 12 Anthracene | 178 | 6.004 | 6.004 | (1.008) | 2028018 | 14.2595 | 12502.8393 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.121 | 6.115 | (1.028) | 2211855 | 17.2236 | 15101.8201 |
| 15 Fluoranthene | 202 | 6.815 | 6.815 | (1.144) | 9449328 | 61.0358 | 53516.8167(A) |
| 16 Pyrene | 202 | 6.986 | 6.986 | (0.883) | 8563878 | 60.1618 | 52750.4946(A) |
| 17 Benzo(a)anthracene | 228 | 7.903 | 7.904 | (0.999) | 4685951 | 33.9409 | 29759.7746 |
| 19 Chrysene | 228 | 7.933 | 7.933 | (1.002) | 6191121 | 41.7394 | 36597.5840 |
| 20 Benzo(b)fluoranthene | 252 | 8.803 | 8.803 | (0.959) | 5045697 | 42.1939 | 36996.0124(M) |
| 21 Benzo(k)fluoranthene | 252 | 8.821 | 8.827 | (0.961) | 2327699 | 18.2334 | 15987.2014(QM) |
| 22 Benzo(a)pyrene | 252 | 9.121 | 9.121 | (0.994) | 3002053 | 26.6212 | 23341.7714 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.468 | 10.468 | (1.140) | 1404467 | 12.8949 | 11306.3509(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.480 | 10.492 | (1.142) | 526241 | 4.88091 | 4279.6338 |
| 26 Benzo(g,h,i)perylene | 276 | 10.862 | 10.862 | (1.183) | 1559480 | 13.1630 | 11541.4725 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CL18020.D

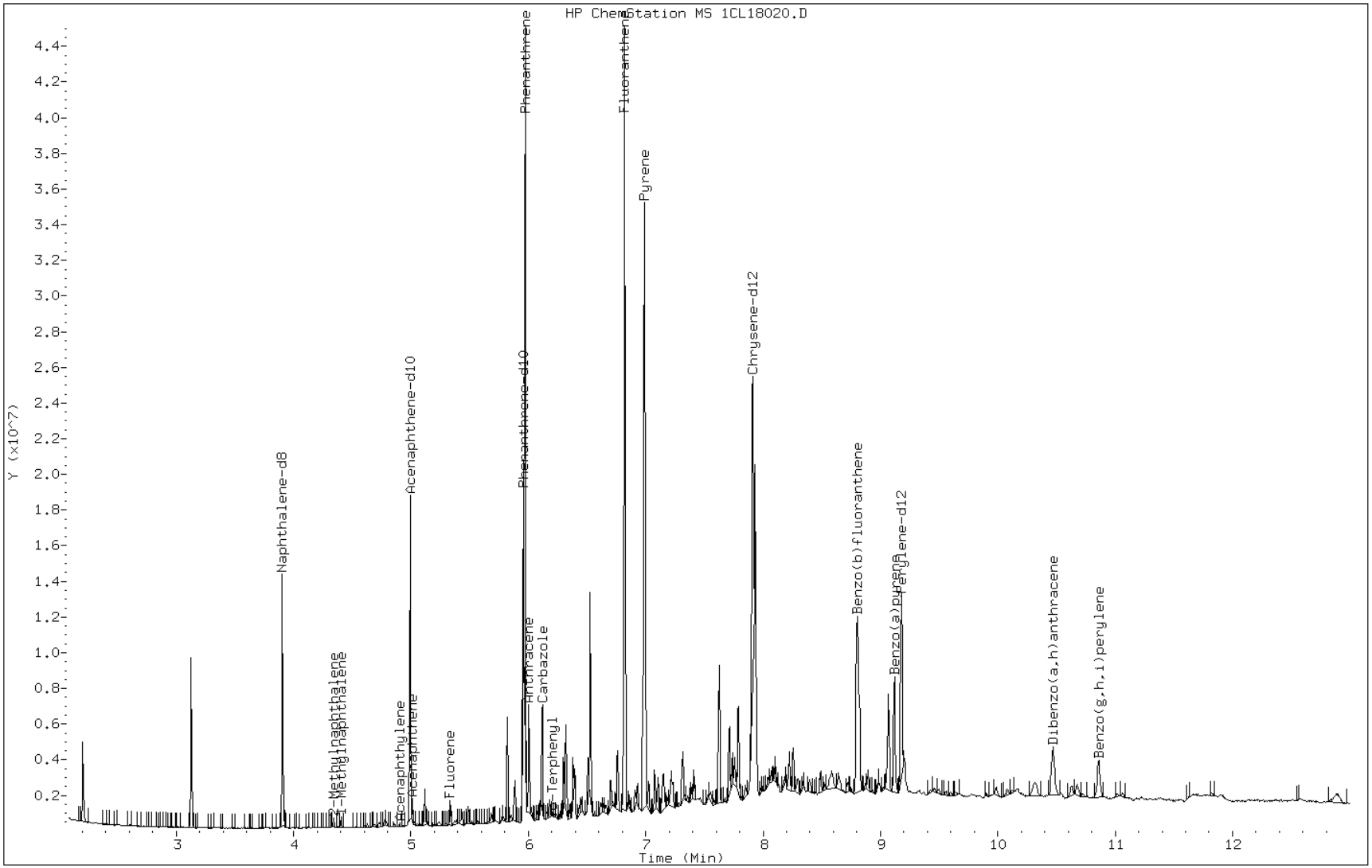
Date: 18-DEC-2012 16:59

Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC



Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

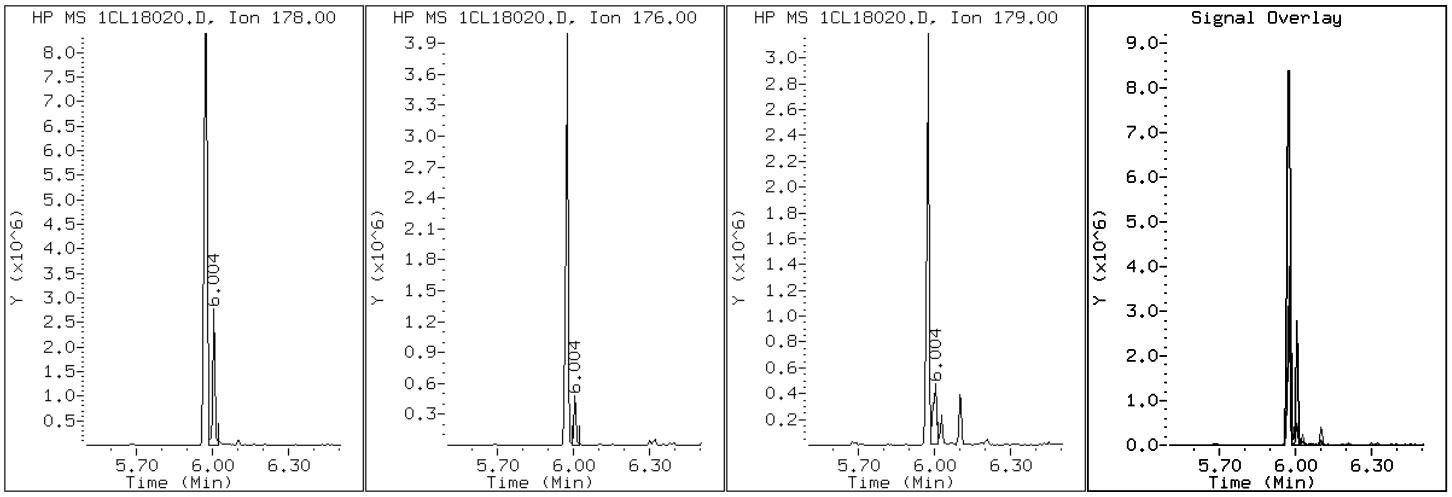
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

12 Anthracene



Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

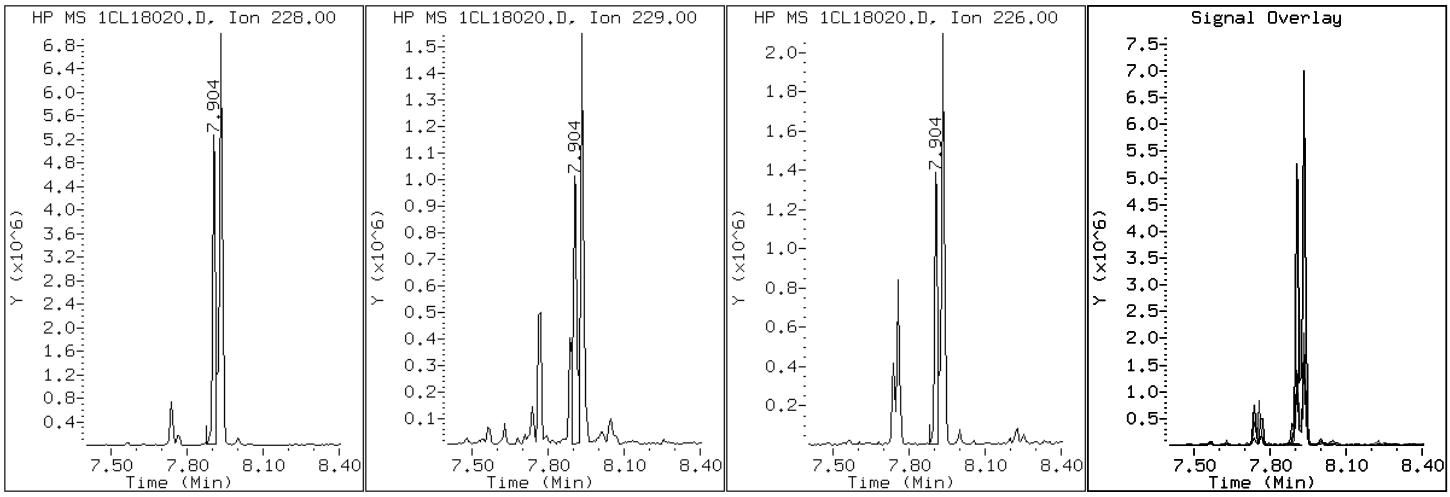
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

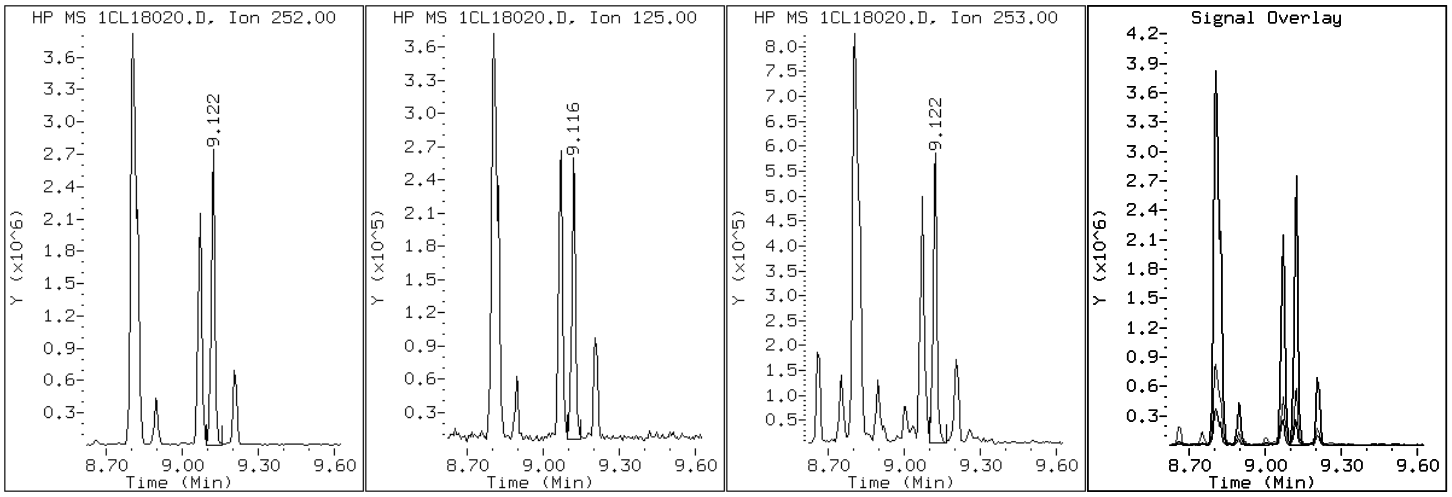
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

22 Benzo(a)pyrene



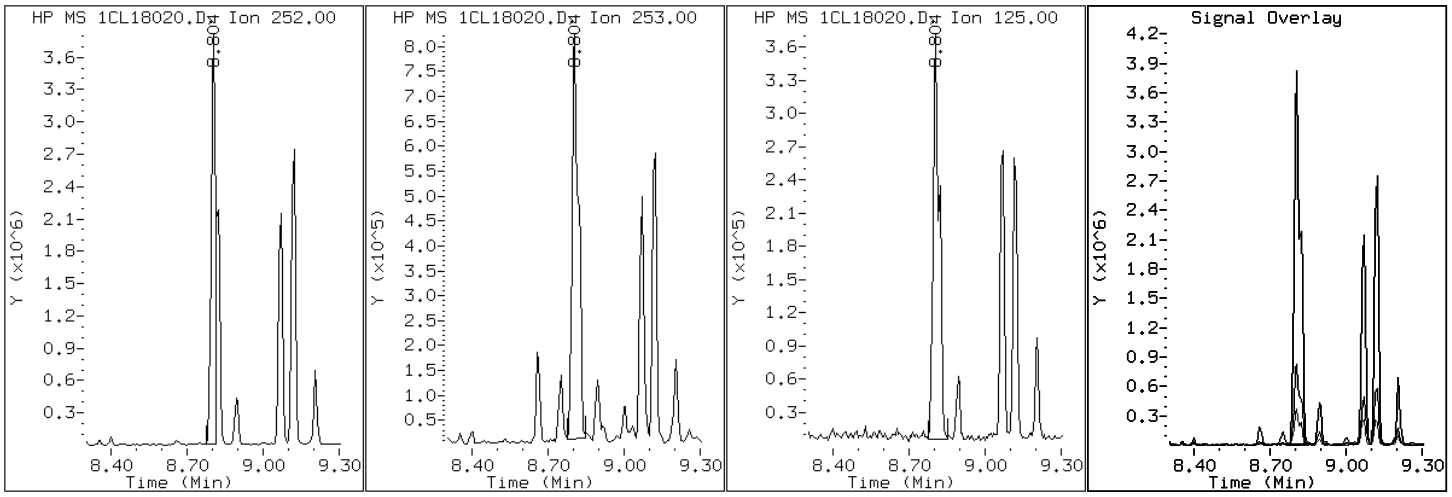
Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

Client ID: FM0165F-CS Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

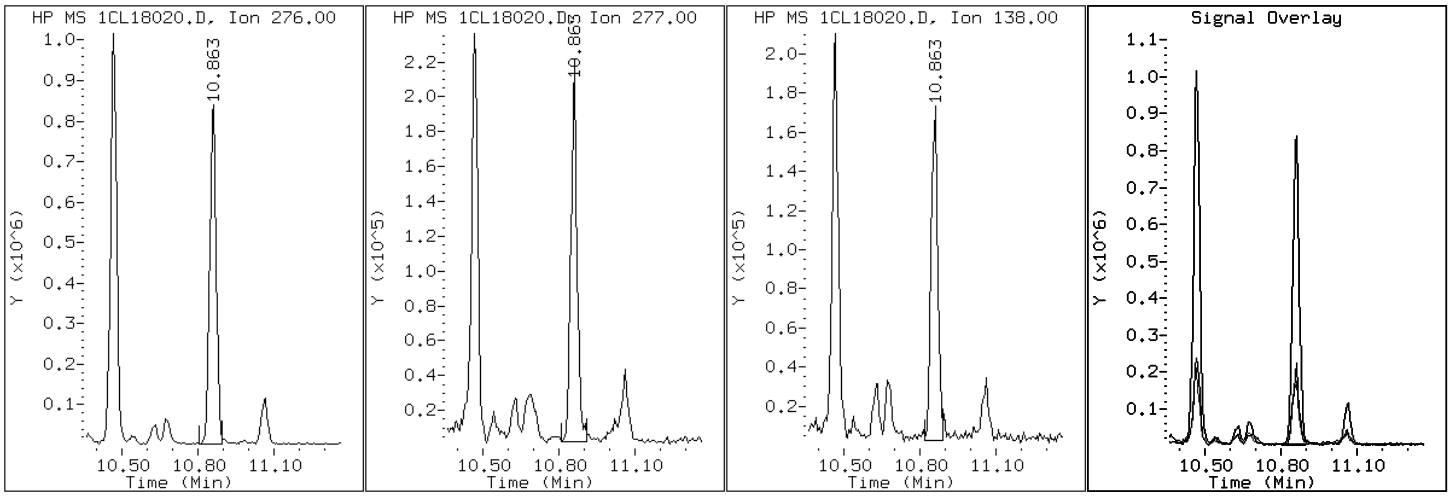
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

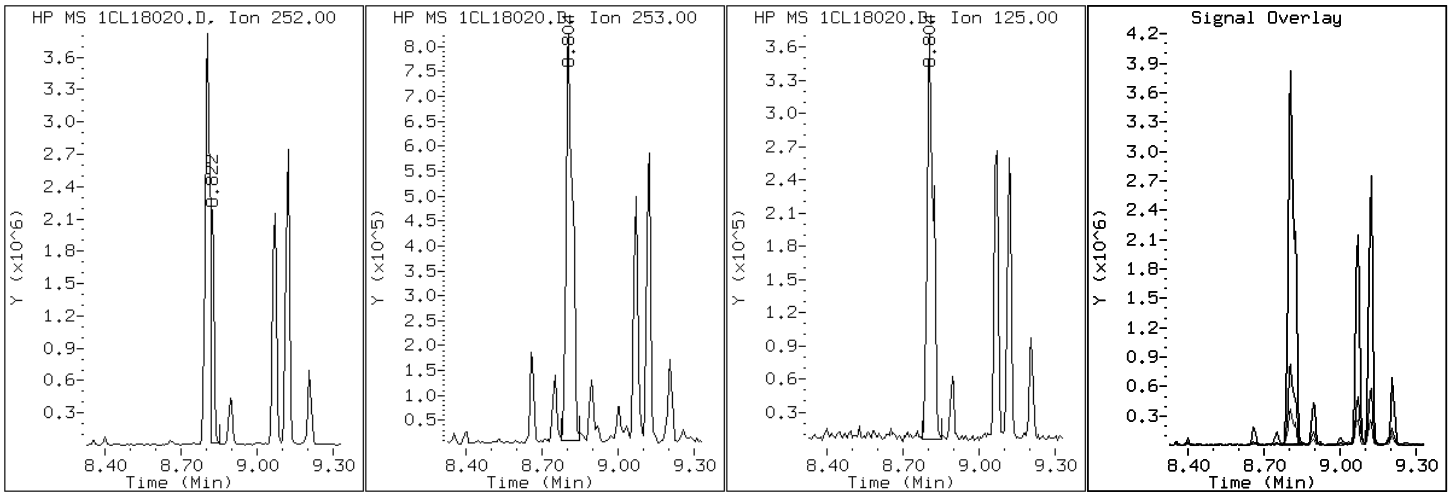
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

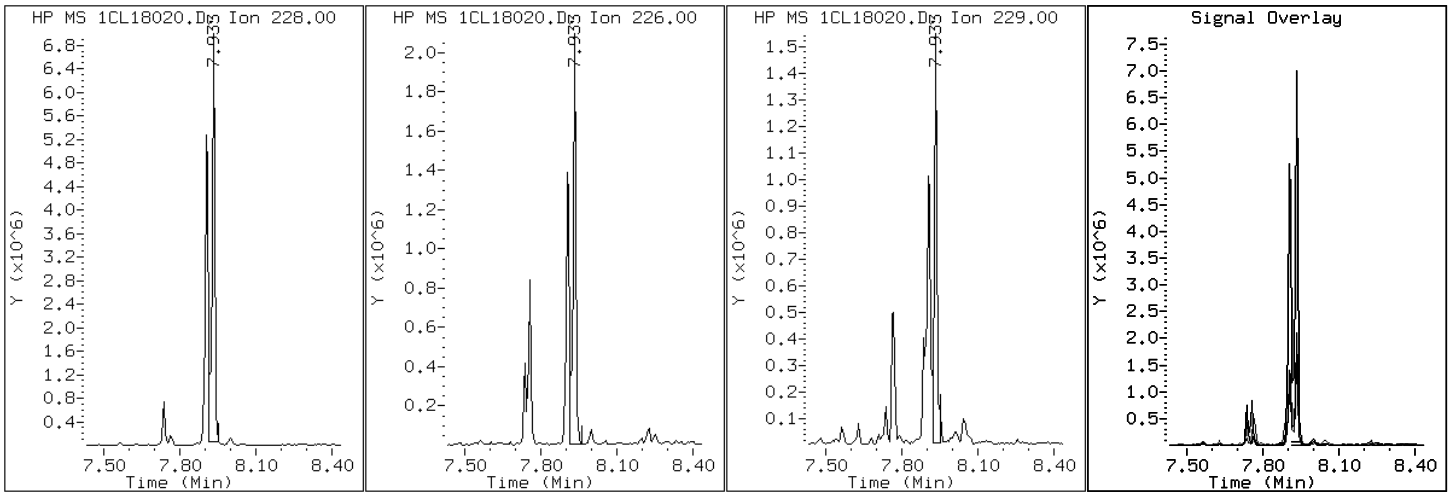
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

19 Chrysene



Data File: 1CL18020.D

Date: 18-DEC-2012 16:59

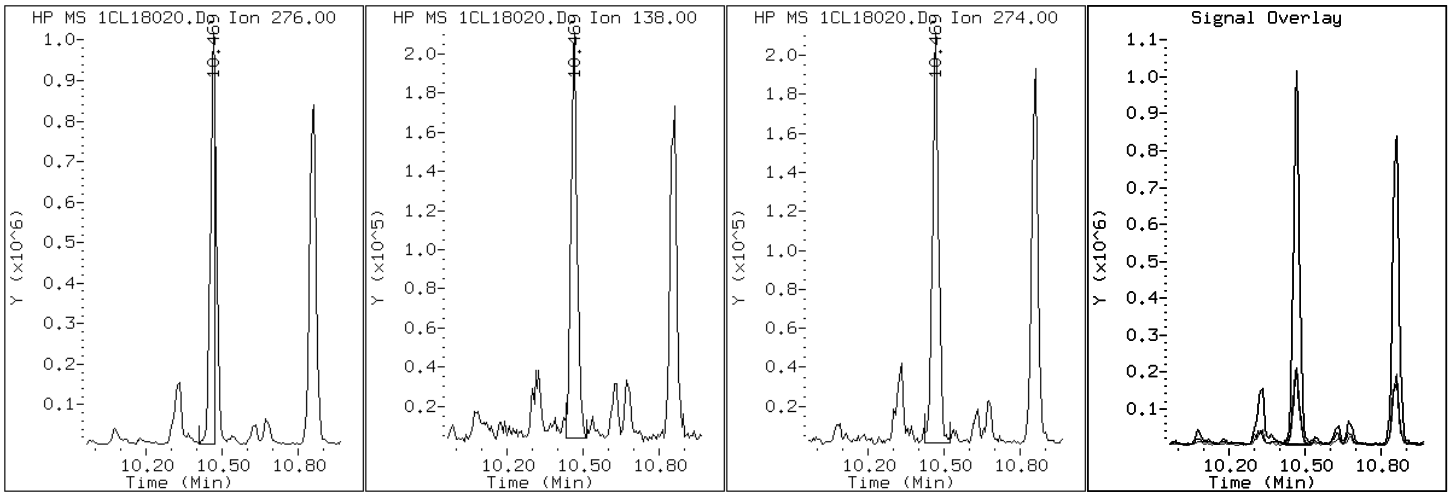
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Manual Integration Report

Data File: 1CL18020.D
Inj. Date and Time: 18-DEC-2012 16:59
Instrument ID: BSMC5973.i
Client ID: FM0165F-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 12/18/2012

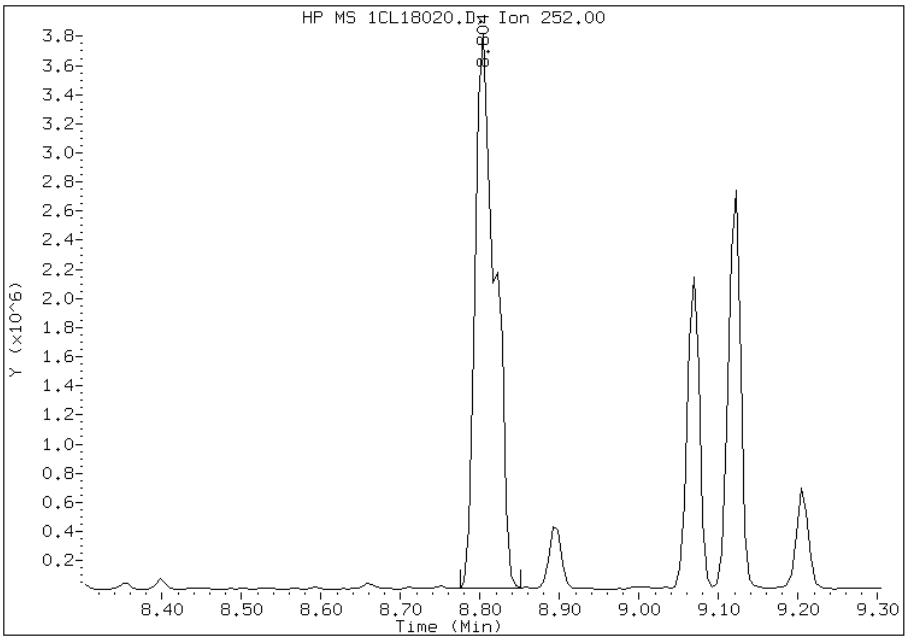
Processing Integration Results

RT: 8.80

Response: 6658443

Amount: 56

Conc: 48821



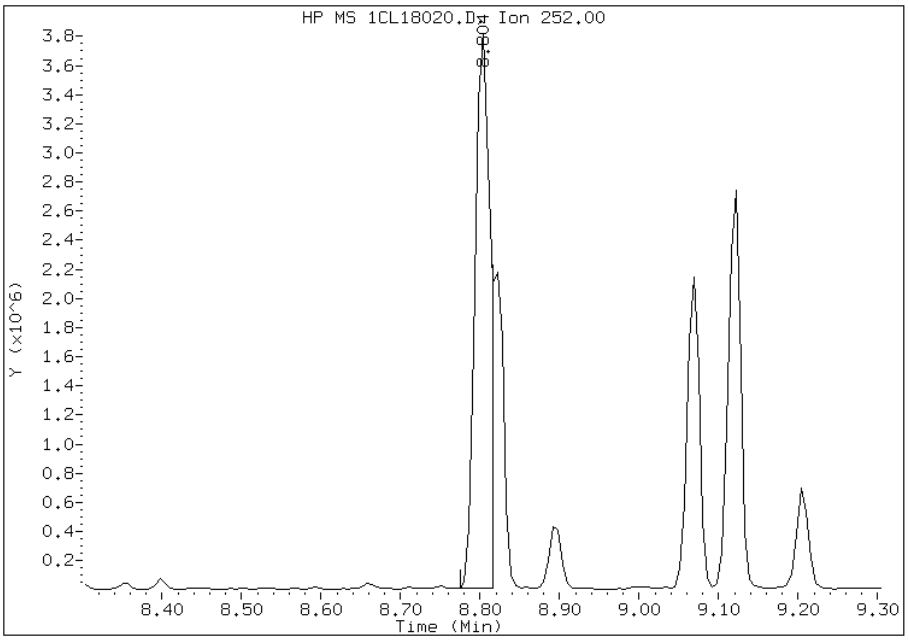

Manual Integration Results

RT: 8.80

Response: 5045697

Amount: 42

Conc: 36996




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 17:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CL18020.D
Inj. Date and Time: 18-DEC-2012 16:59
Instrument ID: BSMC5973.i
Client ID: FM0165F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 12/18/2012

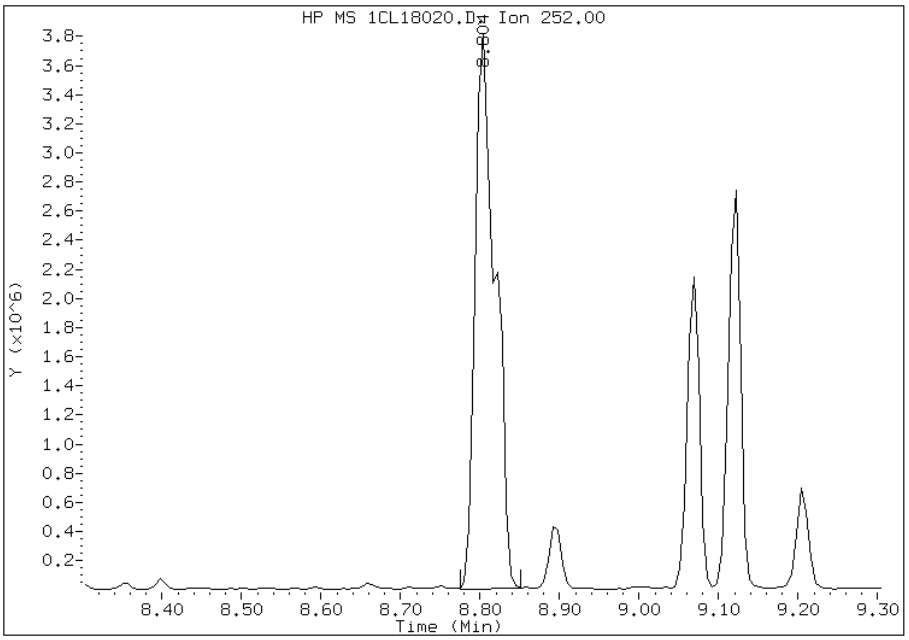
Processing Integration Results

RT: 8.80

Response: 6664965

Amount: 52

Conc: 45777



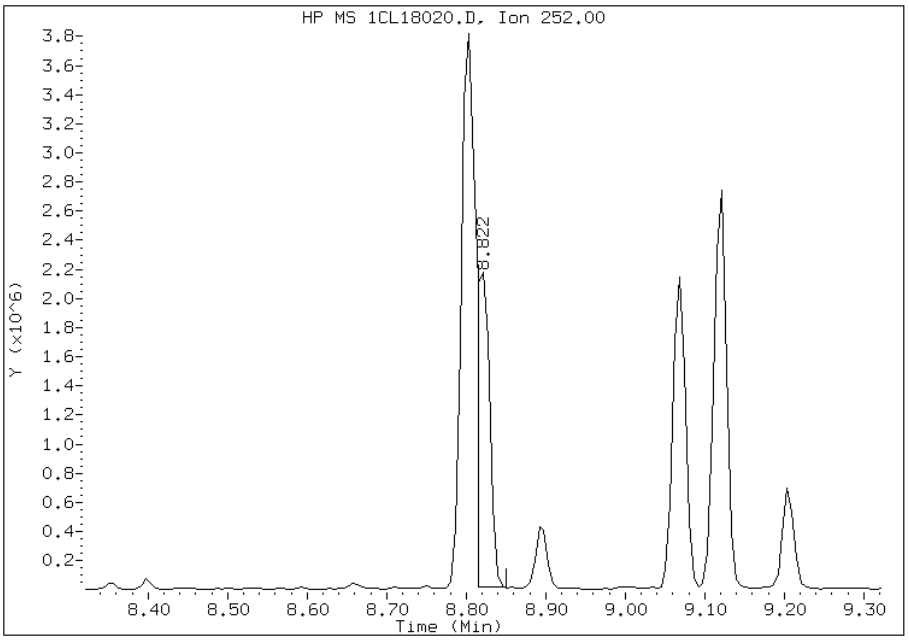

Manual Integration Results

RT: 8.82

Response: 2327699

Amount: 18

Conc: 15987




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 17:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CL18020.D
Inj. Date and Time: 18-DEC-2012 16:59
Instrument ID: BSMC5973.i
Client ID: FM0165F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

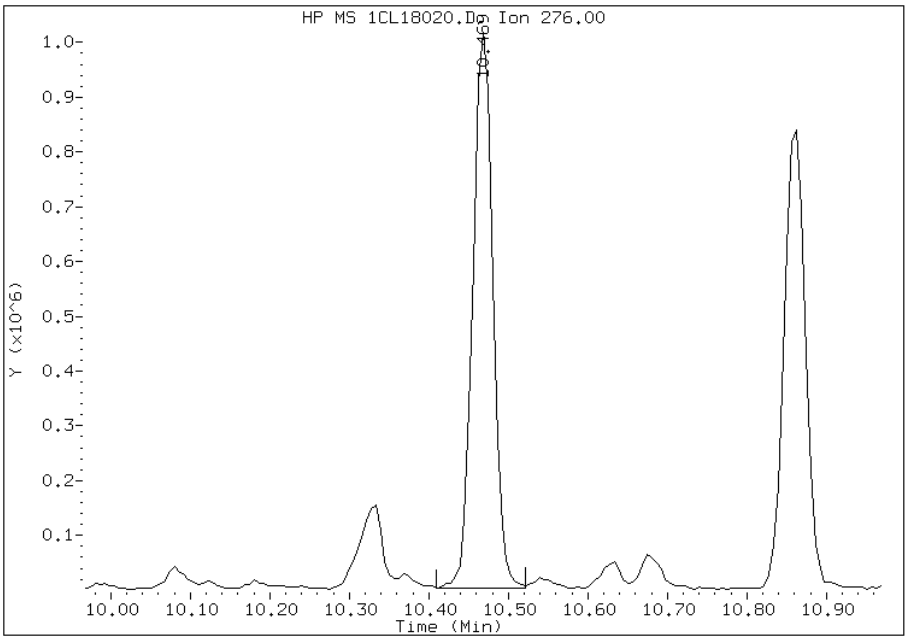
Processing Integration Results

RT: 10.47

Response: 1774052

Amount: 16

Conc: 14282



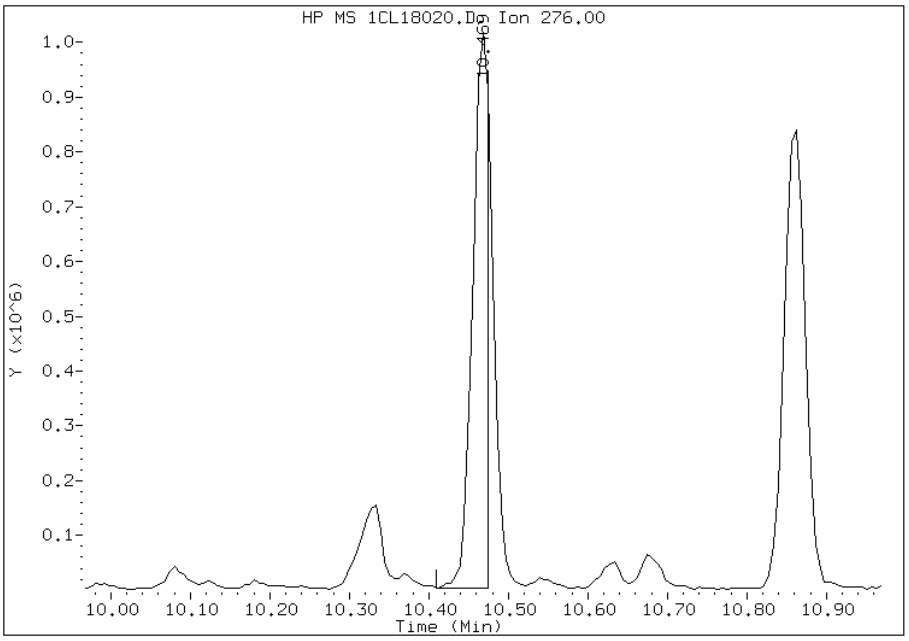

Manual Integration Results

RT: 10.47

Response: 1404467

Amount: 13

Conc: 11306




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 17:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165F-CS DL2 | Lab Sample ID: 680-85534-23 DL2

Matrix: Solid | Lab File ID: 1CL18033.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 09:28

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.03(g) | Date Analyzed: 12/18/2012 20:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132652 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 206-44-0 | Fluoranthene | 79000 | | 530 | 110 |
| 85-01-8 | Phenanthrene | 71000 | | 210 | 100 |
| 129-00-0 | Pyrene | 72000 | | 530 | 97 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\1CL18033.D
Lab Smp Id: 680-85534-A-23-A  Client Smp ID: FM0165F-CS
Inj Date : 18-DEC-2012 20:58
Operator : SCC  Inst ID: BSMC5973.i
Smp Info : 680-85534-a-23-a
Misc Info : 680-85534-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\a-bFASTPAHi-m.m
Meth Date : 18-Dec-2012 11:48 cantins  Quant Type: ISTD
Cal Date : 29-NOV-2012 13:06  Cal File: 1CK29009.D
Als bottle: 33
Dil Factor: 20.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 20.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.030 | Weight Extracted |
| M | 24.119 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.904 | 3.904 | (1.000) | 3582258 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 4.992 | 4.992 | (1.000) | 2797599 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.957 | 5.957 | (1.000) | 5122673 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.204 | 6.204 | (1.041) | 28050 | 0.38556 | 676.1258 |
| * 18 Chrysene-d12 | 240 | 7.915 | 7.915 | (1.000) | 4897595 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.180 | 9.186 | (1.000) | 4524494 | 40.0000 | |
| 2 Naphthalene | 128 | 3.916 | 3.916 | (1.003) | 48390 | 0.49769 | 872.7673 |
| 3 2-Methylnaphthalene | 142 | 4.345 | 4.339 | (1.113) | 53562 | 0.90860 | 1593.3345 |
| 4 1-Methylnaphthalene | 142 | 4.404 | 4.404 | (1.128) | 49283 | 0.85954 | 1507.3028 |
| 5 Acenaphthylene | 152 | 4.910 | 4.904 | (0.984) | 13826 | 0.12529 | 219.7171 |
| 7 Acenaphthene | 154 | 5.015 | 5.010 | (1.005) | 118270 | 1.72715 | 3028.7669 |
| 9 Fluorene | 166 | 5.333 | 5.333 | (1.068) | 134041 | 1.51401 | 2654.9915 |
| 11 Phenanthrene | 178 | 5.974 | 5.968 | (1.003) | 6046993 | 40.5190 | 71054.9855 |
| 12 Anthracene | 178 | 6.004 | 6.004 | (1.008) | 980095 | 7.10324 | 12456.3832 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.121 | 6.115 | (1.028) | 1029046 | 8.25959 | 14484.1952 |
| 15 Fluoranthene | 202 | 6.821 | 6.815 | (1.145) | 6743675 | 44.8991 | 78735.9230 |
| 16 Pyrene | 202 | 6.992 | 6.986 | (0.883) | 5498430 | 40.8629 | 71657.9622 |
| 17 Benzo(a)anthracene | 228 | 7.909 | 7.904 | (0.999) | 2380661 | 18.2416 | 31988.8878 |
| 19 Chrysene | 228 | 7.933 | 7.933 | (1.002) | 2748809 | 19.6048 | 34379.3275 |
| 20 Benzo(b)fluoranthene | 252 | 8.803 | 8.803 | (0.959) | 2267838 | 20.1410 | 35319.6002 |
| 21 Benzo(k)fluoranthene | 252 | 8.821 | 8.827 | (0.961) | 1121637 | 9.33109 | 16363.1892 |
| 22 Benzo(a)pyrene | 252 | 9.121 | 9.121 | (0.994) | 1326523 | 12.4929 | 21907.8744 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.468 | 10.468 | (1.140) | 825590 | 8.05025 | 14117.0952 |
| 25 Dibenzo(a,h)anthracene | 278 | 10.486 | 10.492 | (1.142) | 243540 | 2.39898 | 4206.9004 |
| 26 Benzo(g,h,i)perylene | 276 | 10.862 | 10.862 | (1.183) | 715929 | 6.41779 | 11254.3746 |

Data File: 1CL18033.D

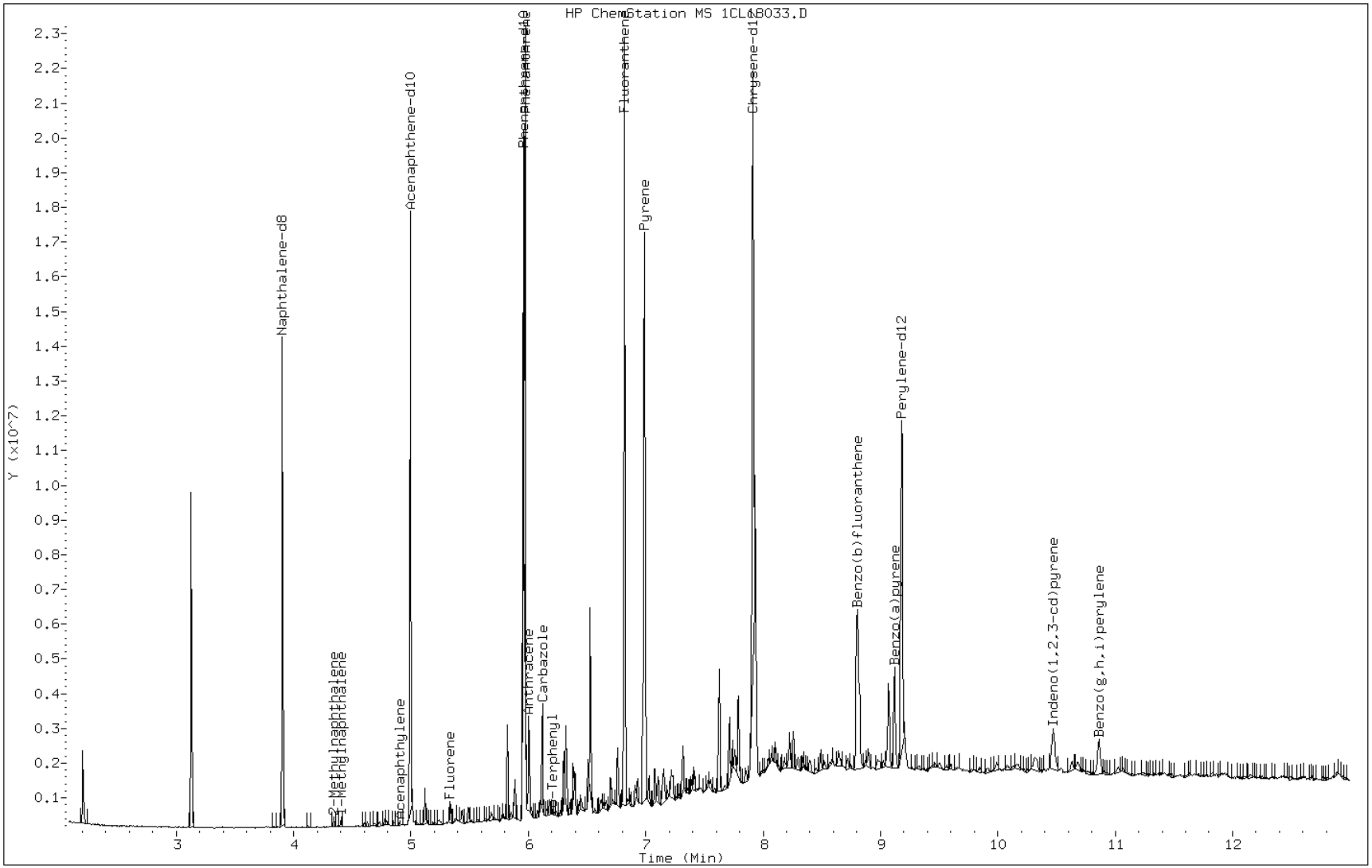
Date: 18-DEC-2012 20:58

Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC



Data File: 1CL18033.D

Date: 18-DEC-2012 20:58

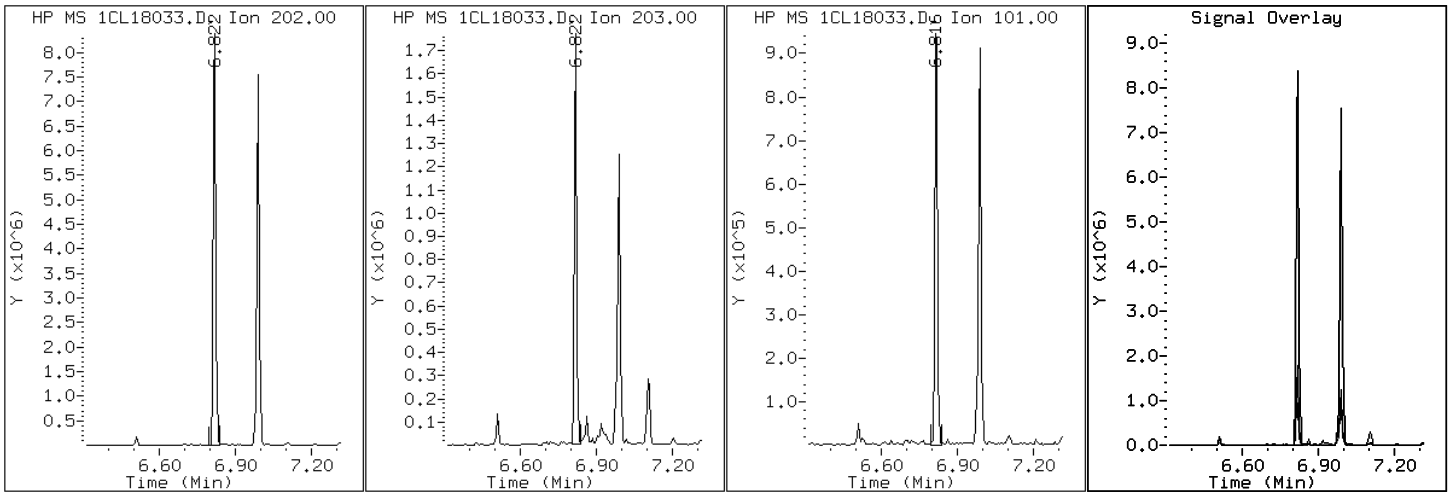
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

15 Fluoranthene



Data File: 1CL18033.D

Date: 18-DEC-2012 20:58

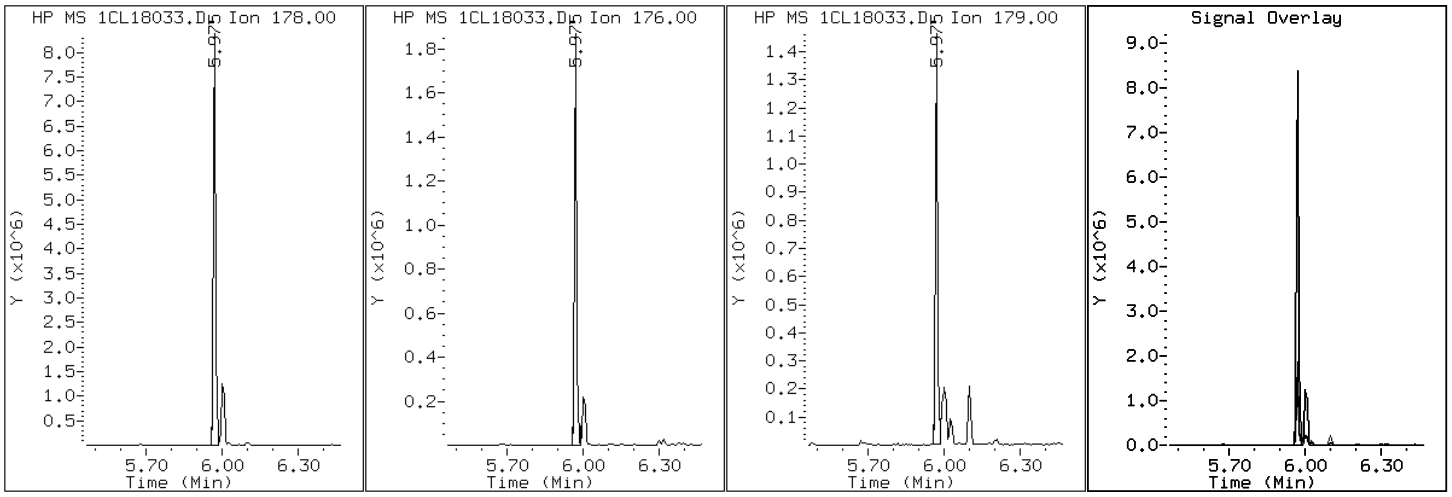
Client ID: FM0165F-CS

Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a

Operator: SCC

11 Phenanthrene



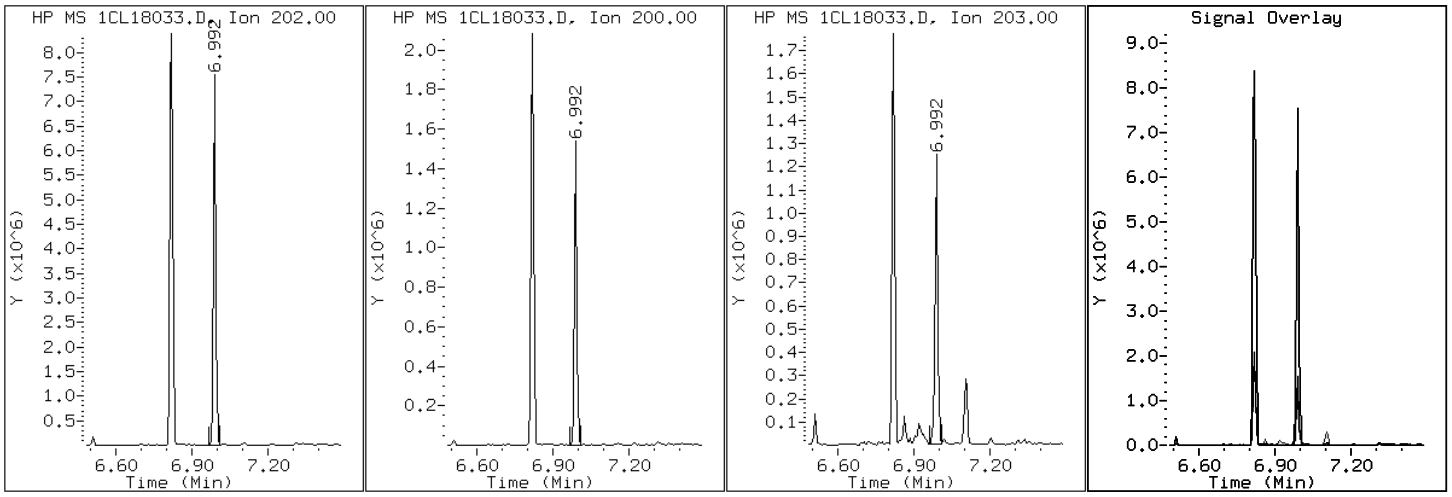
Data File: 1CL18033.D

Date: 18-DEC-2012 20:58

Client ID: FM0165F-CS Instrument: BSMC5973.i

Sample Info: 680-85534-a-23-a Operator: SCC

16 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165G-CS | Lab Sample ID: 680-85534-24

Matrix: Solid | Lab File ID: 1DL16024.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:10

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.03(g) | Date Analyzed: 12/16/2012 18:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 26 |
| 208-96-8 | Acenaphthylene | 8.8 | J | 52 | 6.5 |
| 120-12-7 | Anthracene | 52 | | 11 | 5.5 |
| 56-55-3 | Benzo[a]anthracene | 280 | | 10 | 5.1 |
| 50-32-8 | Benzo[a]pyrene | 300 | | 14 | 6.8 |
| 205-99-2 | Benzo[b]fluoranthene | 490 | | 16 | 7.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 130 | | 26 | 5.7 |
| 207-08-9 | Benzo[k]fluoranthene | 180 | | 10 | 4.7 |
| 218-01-9 | Chrysene | 350 | | 12 | 5.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 49 | | 26 | 5.3 |
| 206-44-0 | Fluoranthene | 570 | | 26 | 5.2 |
| 86-73-7 | Fluorene | 22 | J | 26 | 5.3 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 150 | | 26 | 9.2 |
| 90-12-0 | 1-Methylnaphthalene | 36 | J | 52 | 5.7 |
| 91-57-6 | 2-Methylnaphthalene | 49 | J | 52 | 9.2 |
| 91-20-3 | Naphthalene | 68 | | 52 | 5.7 |
| 85-01-8 | Phenanthrene | 320 | | 10 | 5.1 |
| 129-00-0 | Pyrene | 440 | | 26 | 4.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 59 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16024.D
Lab Smp Id: 680-85534-A-24-A  Client Smp ID: FM0165G-CS
Inj Date  : 16-DEC-2012 18:35
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-24-A
Misc Info : 680-85534-A-24-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.030 | Weight Extracted |
| M | 23.174 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.265 | 6.265 | (1.000) | 4175576 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.934 | 7.934 | (1.000) | 2429637 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.197 | 9.191 | (1.000) | 3881230 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.503 | 9.503 | (1.033) | 364237 | 5.94989 | 520 |
| * 17 Chrysene-d12 | 240 | 11.565 | 11.553 | (1.000) | 3870622 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.486 | 13.463 | (1.000) | 3674426 | 40.0000 | |
| 2 Naphthalene | 128 | 6.289 | 6.283 | (1.004) | 85248 | 0.78626 | 68 |
| 3 2-Methylnaphthalene | 142 | 6.982 | 6.982 | (1.114) | 39209 | 0.56010 | 48 |
| 4 1-Methylnaphthalene | 142 | 7.076 | 7.076 | (1.129) | 27262 | 0.41078 | 36 |
| 5 Acenaphthylene | 152 | 7.805 | 7.805 | (0.984) | 10814 | 0.10189 | 8.8 |
| 7 Acenaphthene | 154 | 7.957 | 7.958 | (1.003) | 15278 | 0.23763 | 20 |
| 8 Fluorene | 166 | 8.398 | 8.398 | (1.059) | 19521 | 0.25760 | 22 |
| 10 Phenanthrene | 178 | 9.215 | 9.209 | (1.002) | 413199 | 3.72070 | 320 |
| 11 Anthracene | 178 | 9.250 | 9.250 | (1.006) | 66680 | 0.59891 | 52 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 12 Carbazole | 167 | 9.385 | 9.379 | (1.020) | 68425 | 0.69420 | 60 |
| 14 Fluoranthene | 202 | 10.196 | 10.190 | (1.109) | 742884 | 6.61884 | 570 |
| 15 Pyrene | 202 | 10.384 | 10.378 | (0.898) | 630671 | 5.10885 | 440 |
| 16 Benzo(a)anthracene | 228 | 11.547 | 11.530 | (0.998) | 337352 | 3.22948 | 280 |
| 18 Chrysene | 228 | 11.588 | 11.583 | (1.002) | 445705 | 4.06457 | 350 |
| 19 Benzo(b)fluoranthene | 252 | 12.905 | 12.893 | (0.957) | 508220 | 5.63523 | 490 |
| 20 Benzo(k)fluoranthene | 252 | 12.940 | 12.940 | (0.959) | 212493 | 2.12654 | 180 |
| 21 Benzo(a)pyrene | 252 | 13.375 | 13.363 | (0.992) | 310134 | 3.44647 | 300 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.125 | 15.114 | (1.122) | 153949 | 1.73457 | 150(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.155 | 15.149 | (1.124) | 48964 | 0.56203 | 49 |
| 25 Benzo(g,h,i)perylene | 276 | 15.601 | 15.590 | (1.157) | 133194 | 1.45774 | 130 |

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DL16024.D

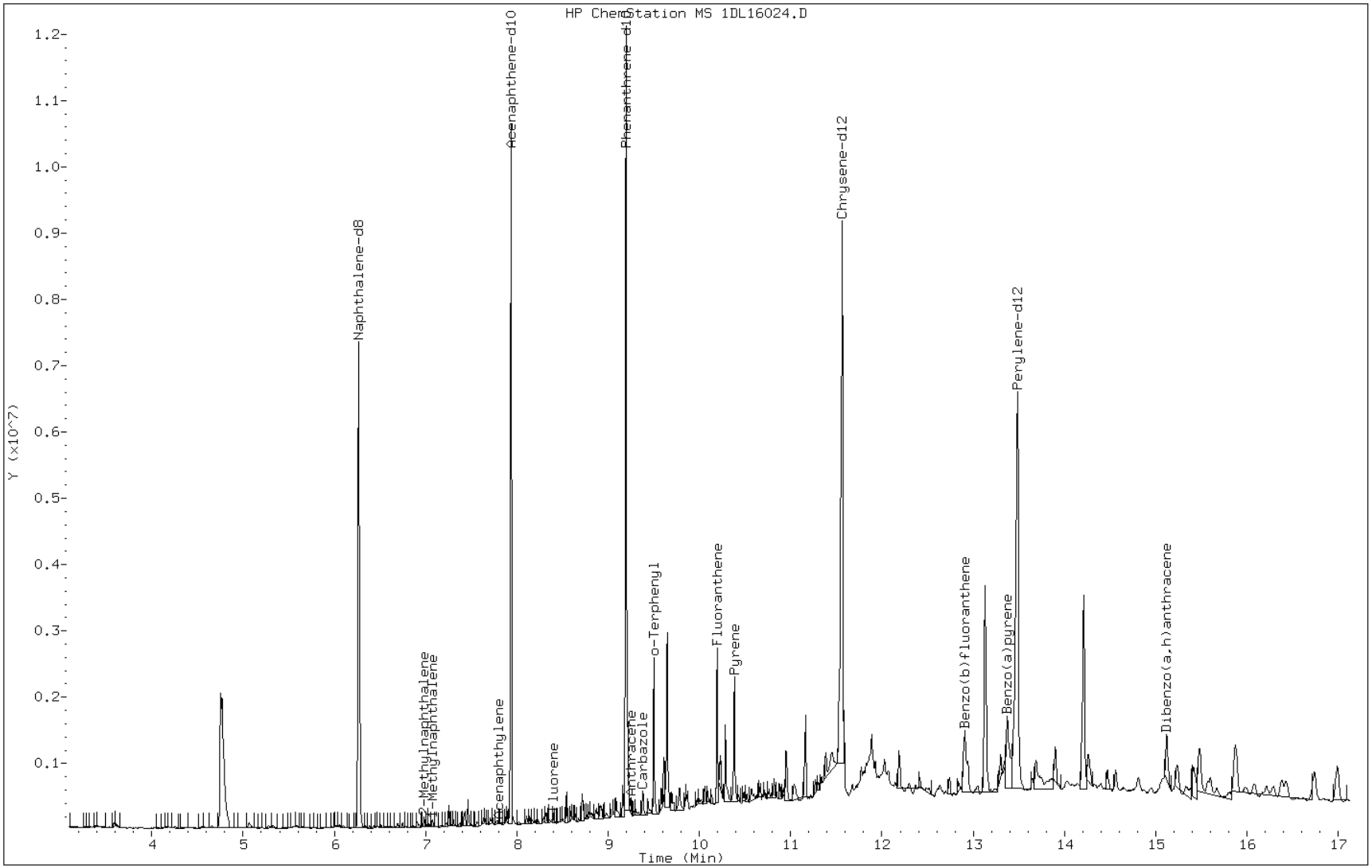
Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A

Operator: SCC



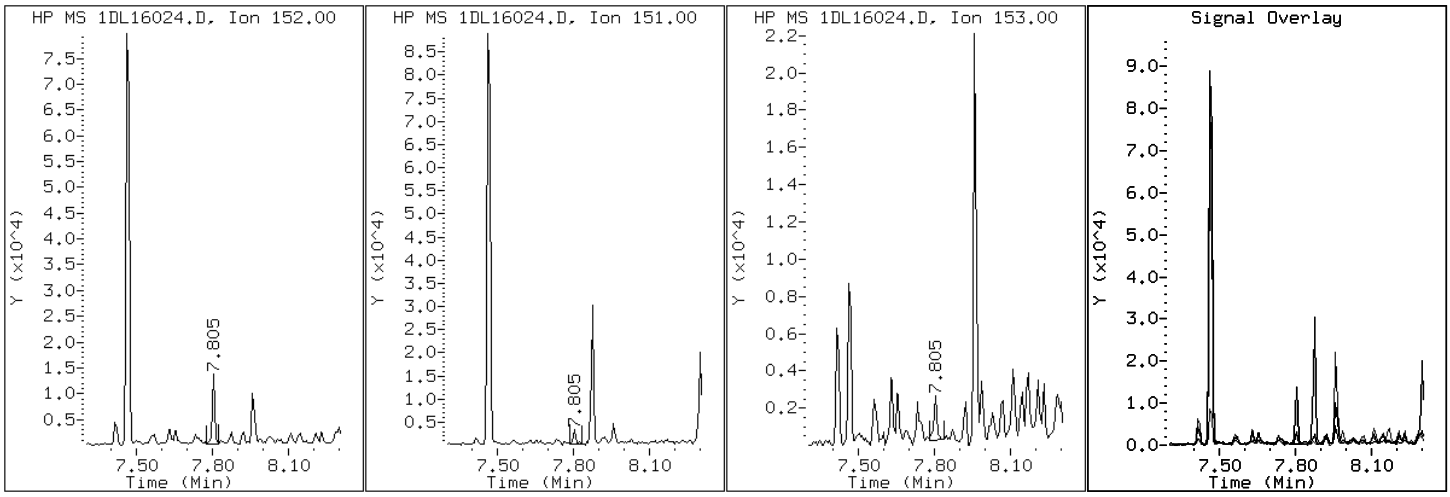
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

5 Acenaphthylene



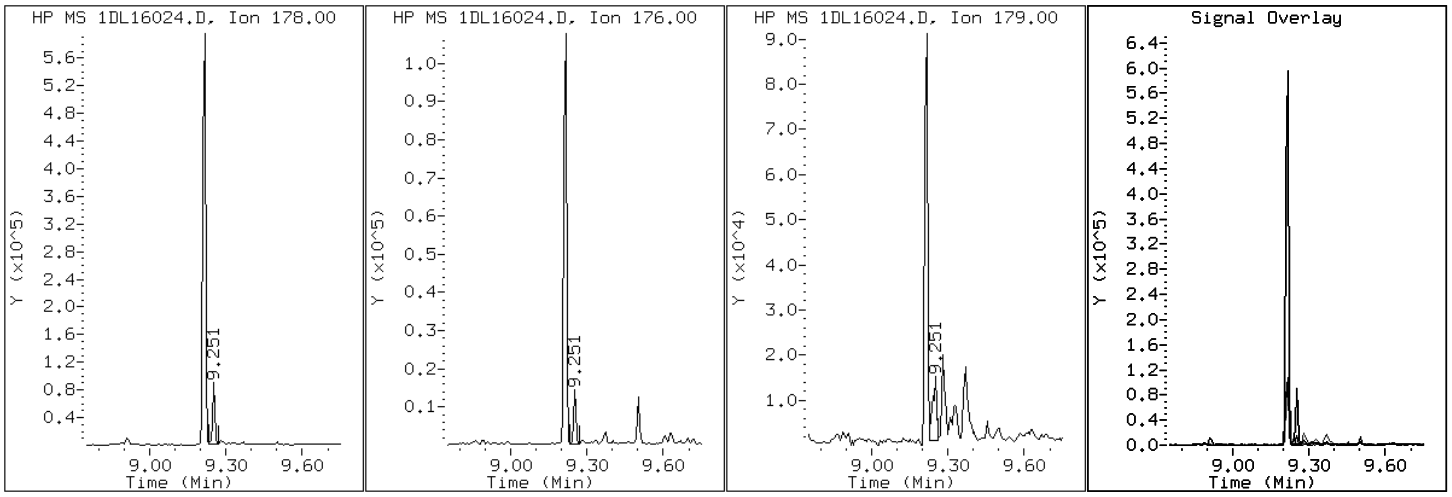
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

11 Anthracene



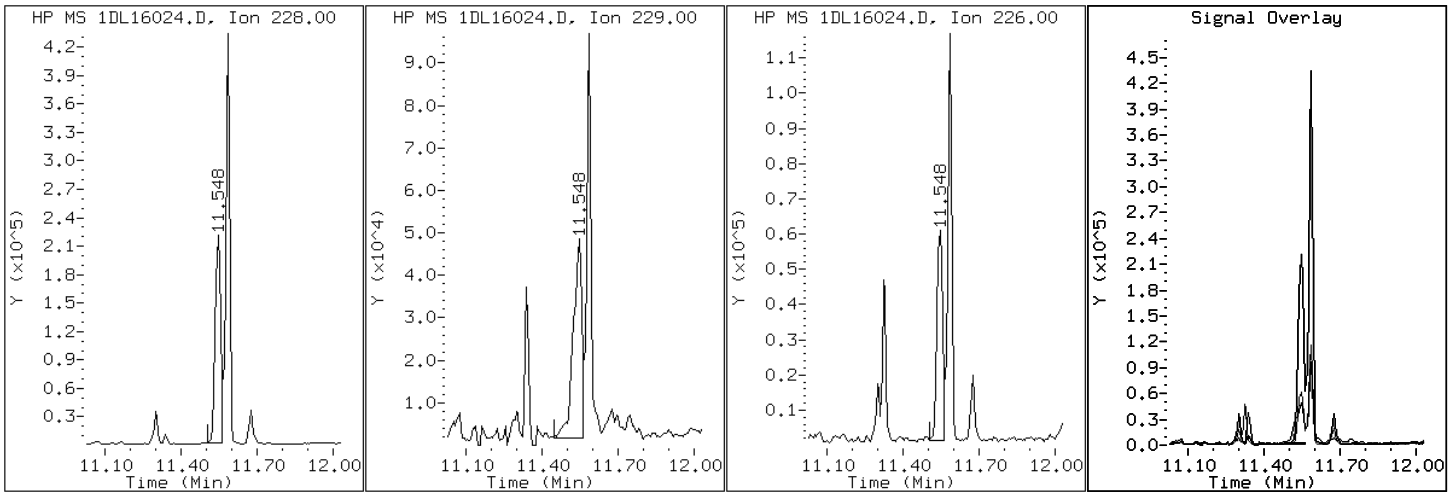
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

16 Benzo(a)anthracene



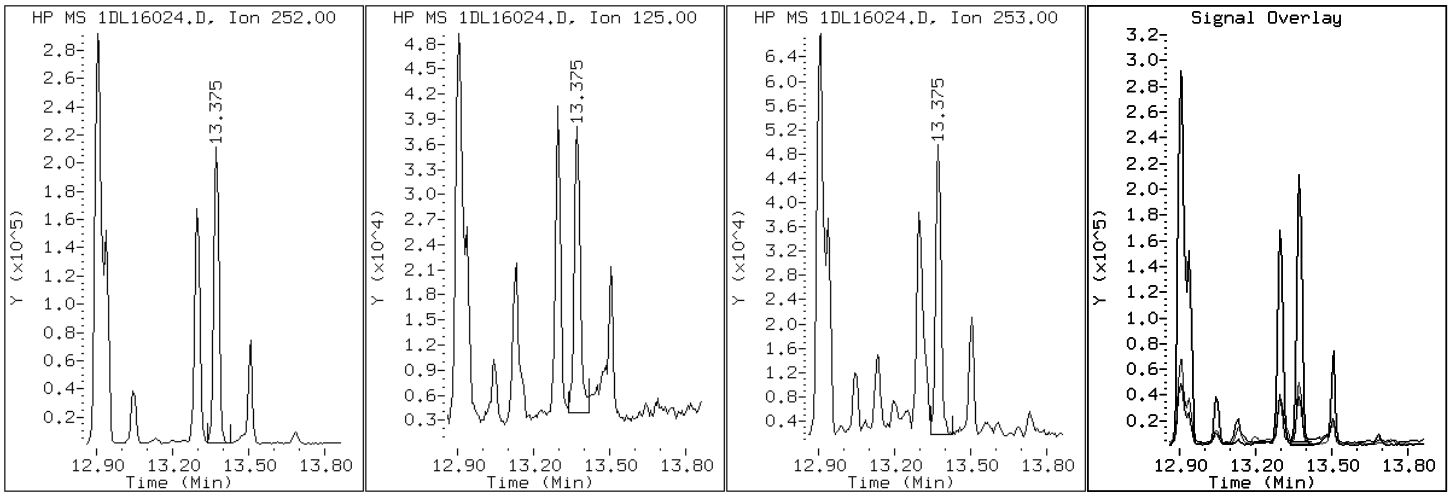
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

21 Benzo(a)pyrene



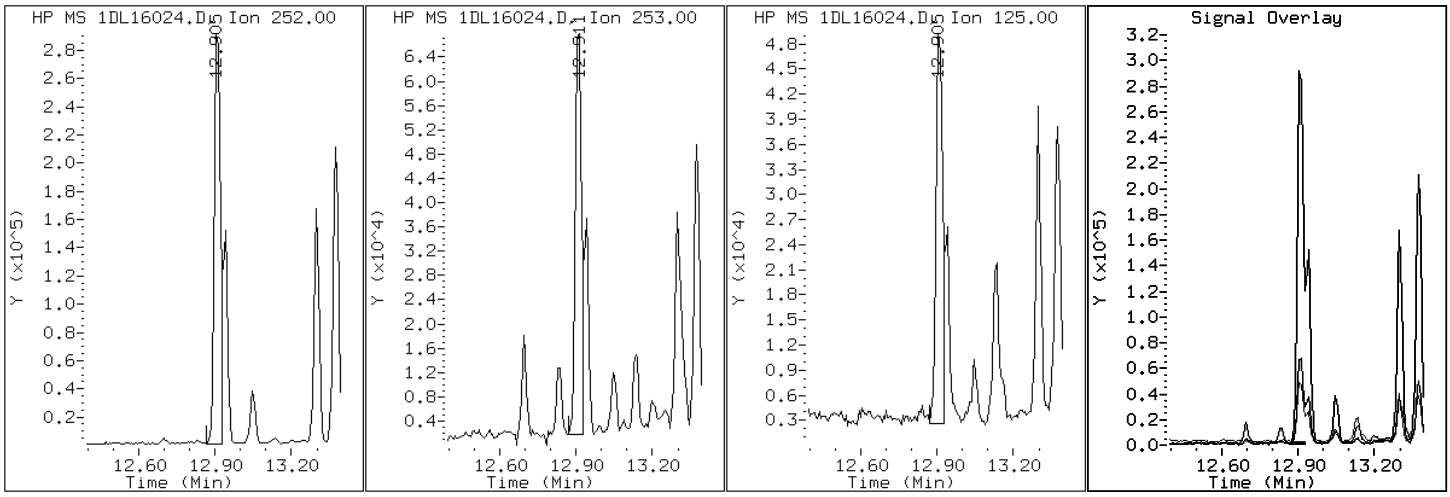
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

19 Benzo(b)fluoranthene



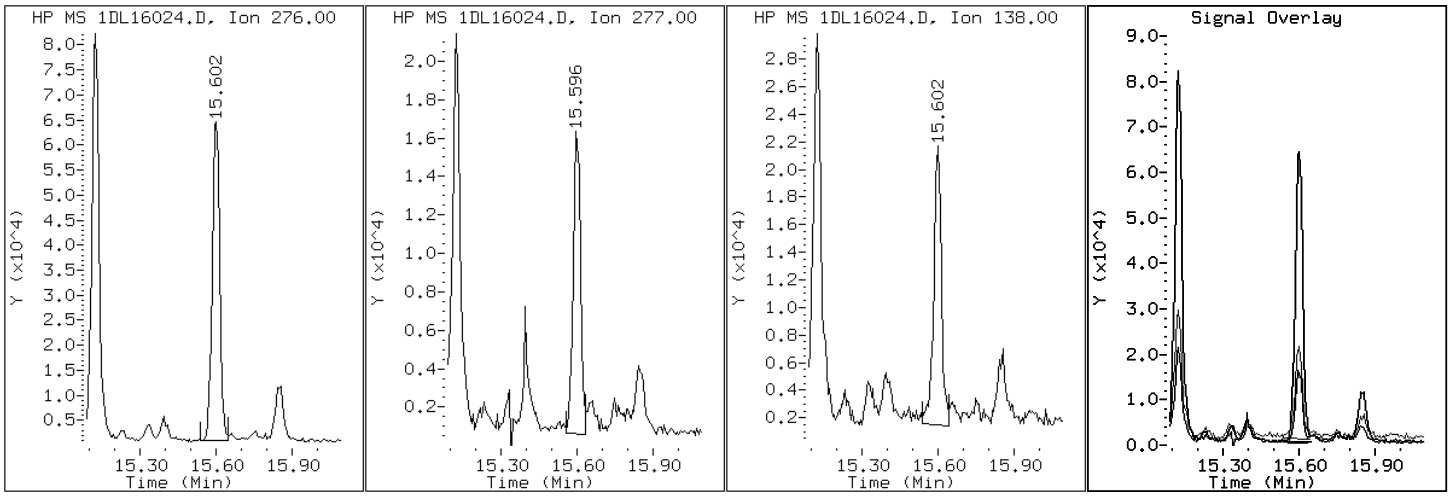
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

25 Benzo(g,h,i)perylene



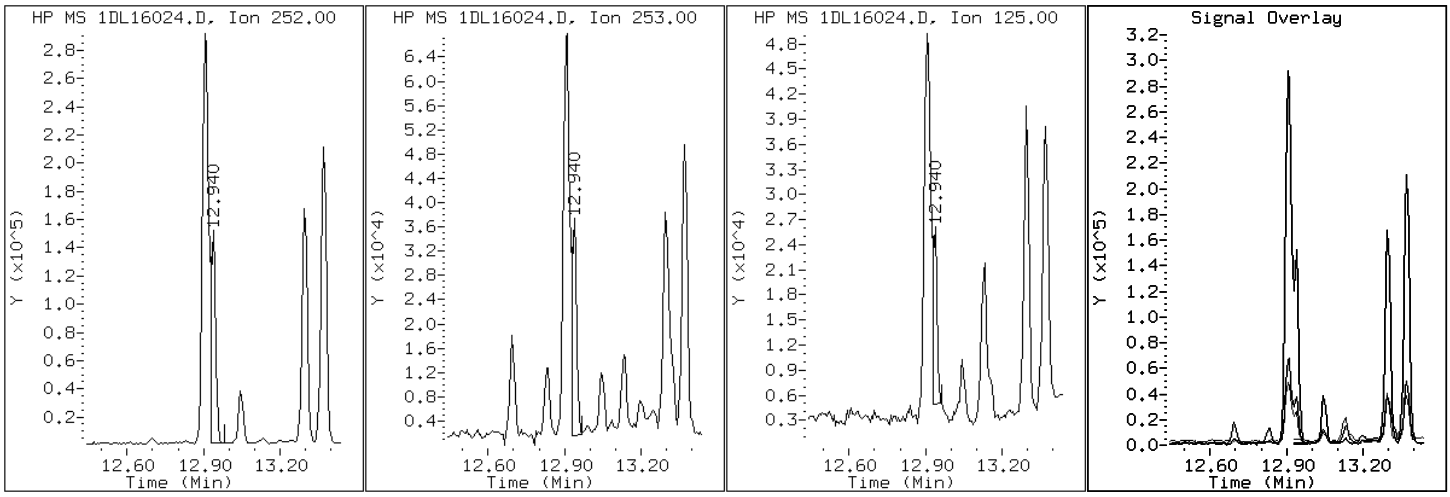
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

20 Benzo(k)fluoranthene



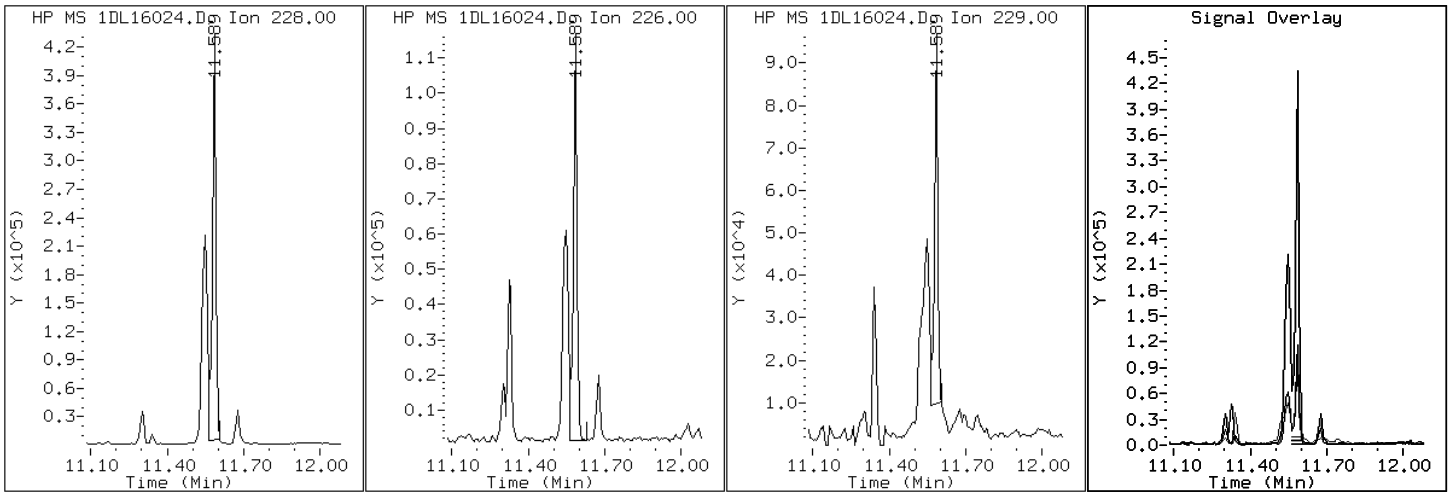
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

18 Chrysene



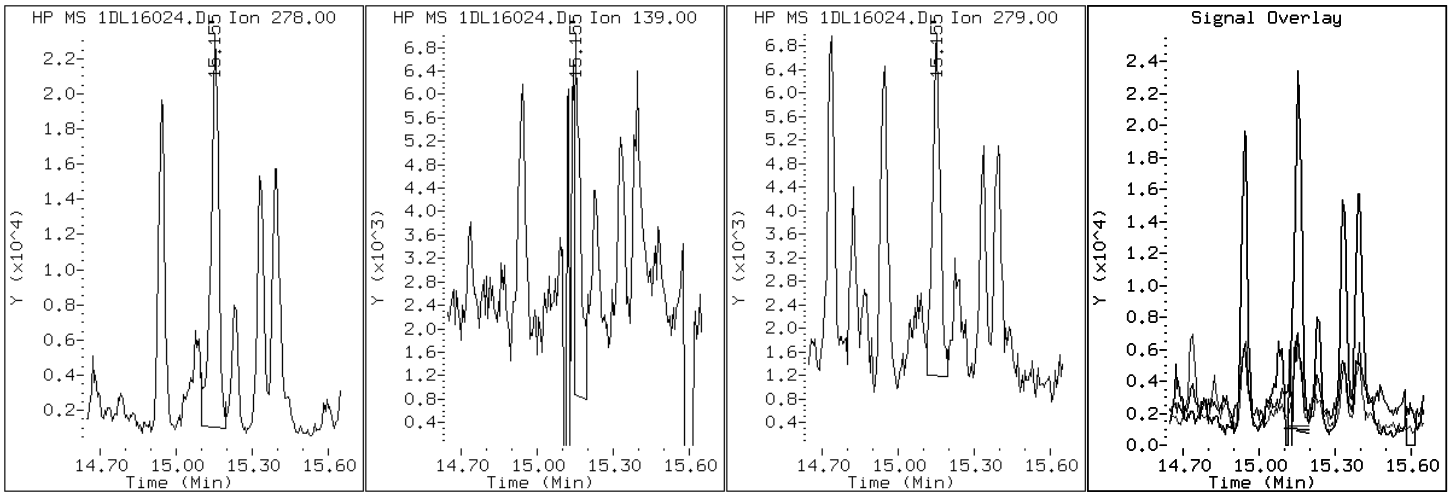
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

24 Dibenzo(a,h)anthracene



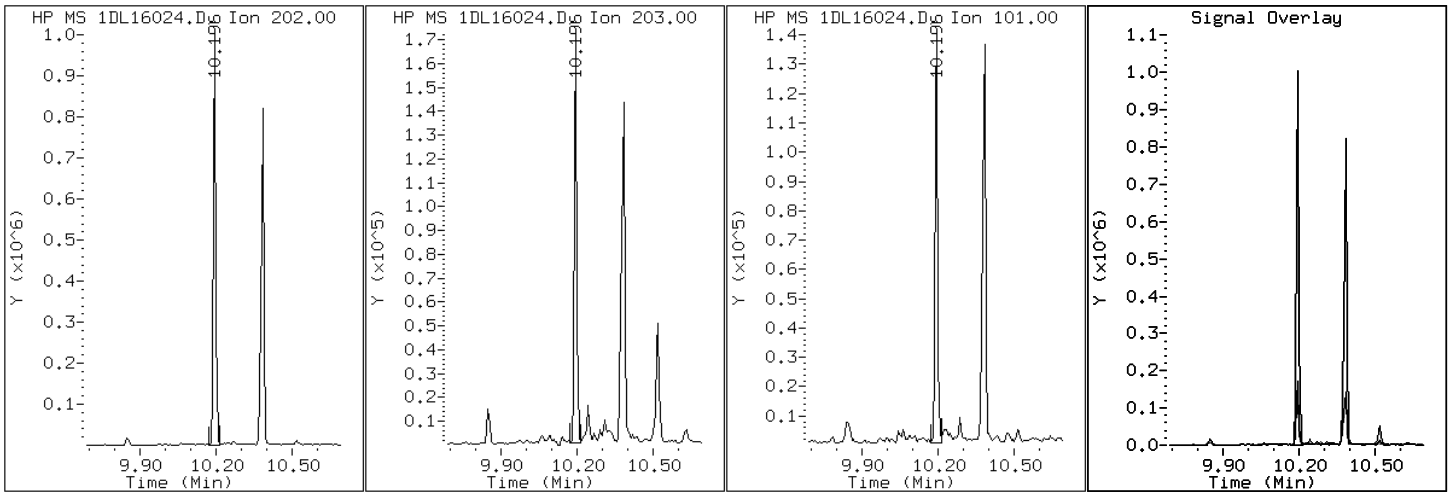
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

14 Fluoranthene



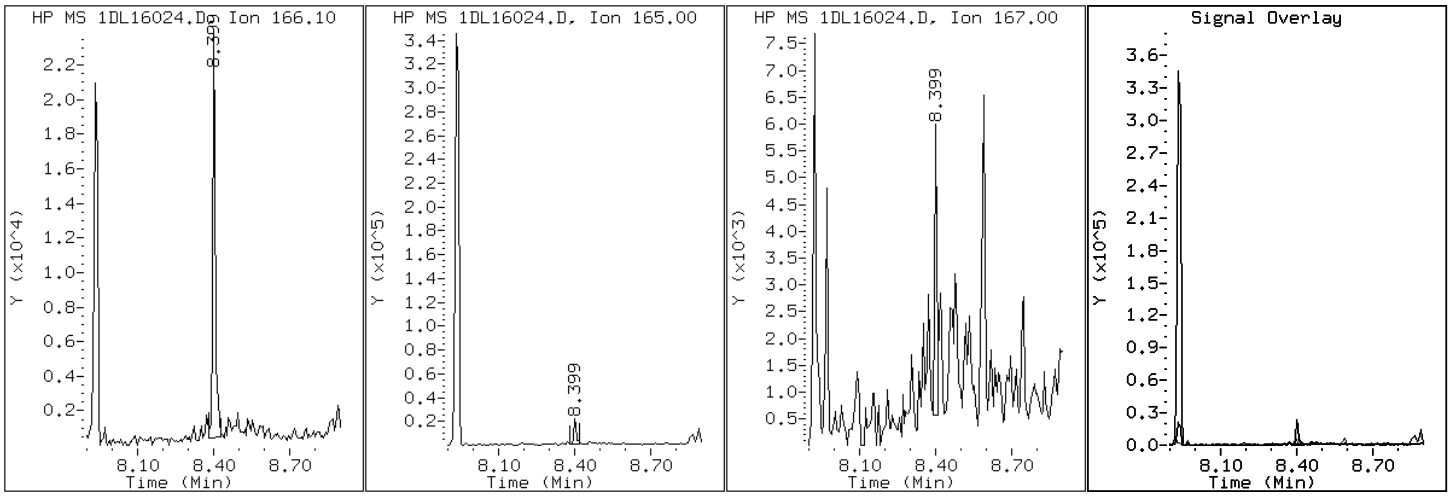
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

8 Fluorene



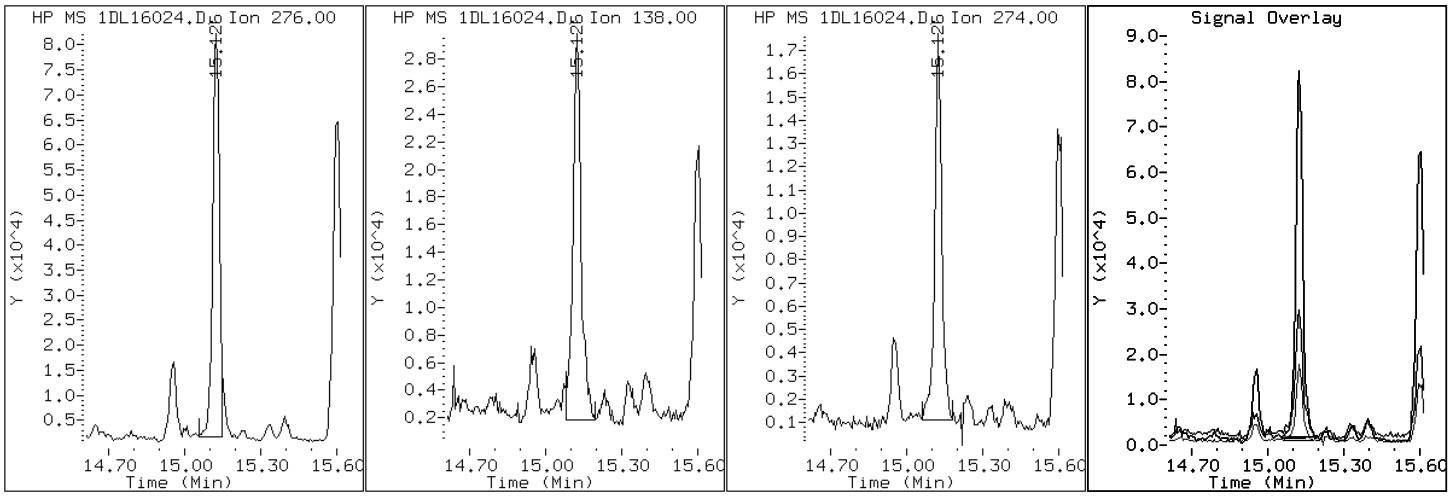
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



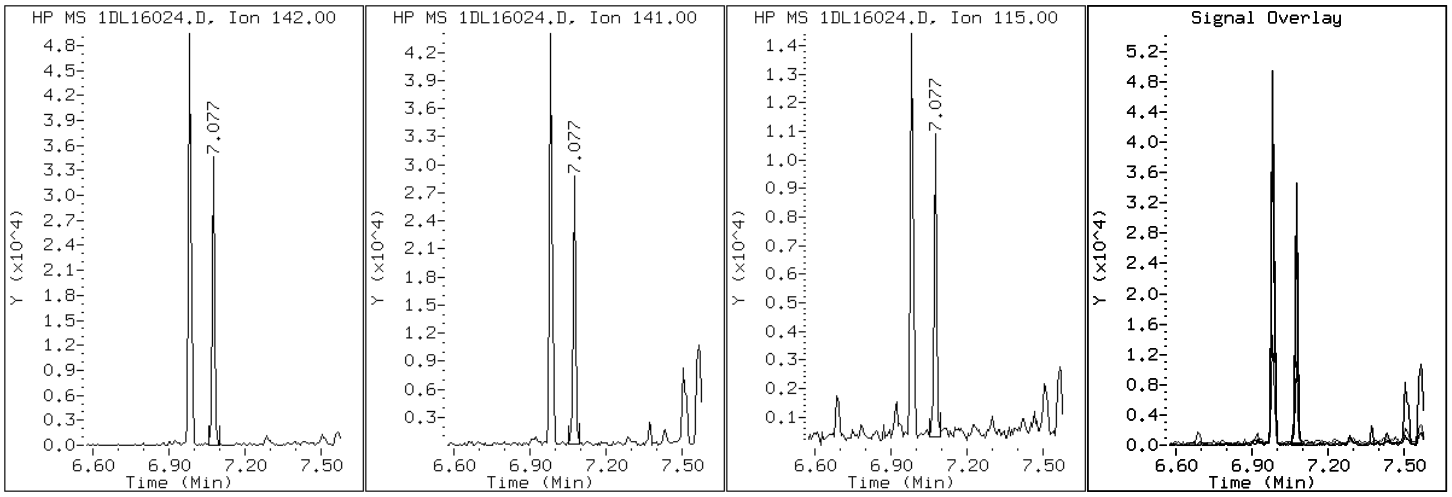
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

4 1-Methylnaphthalene



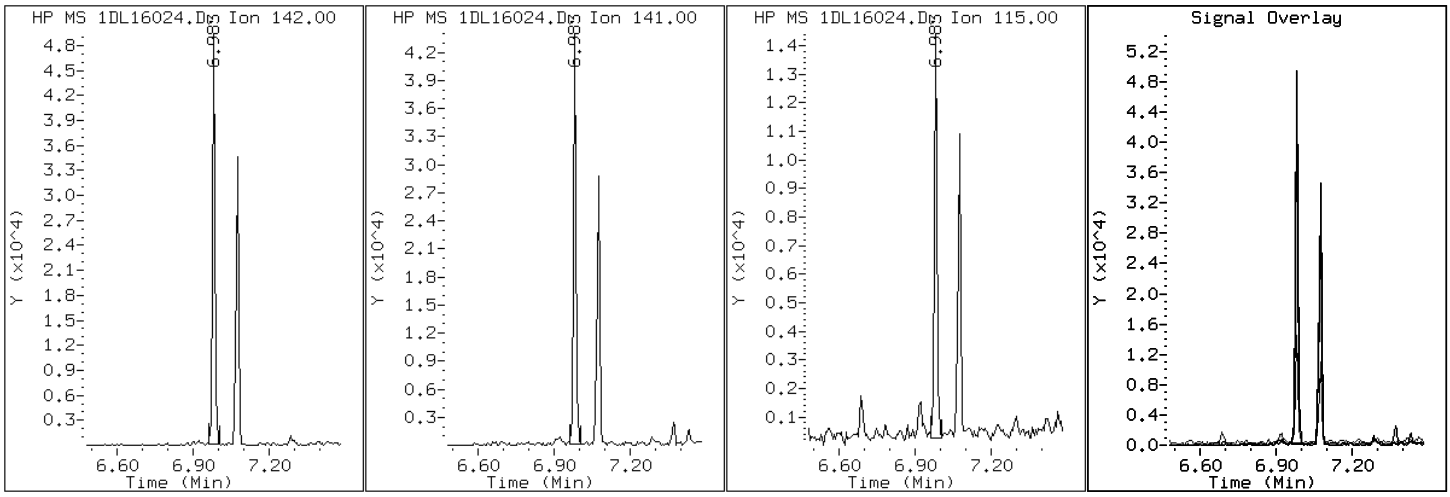
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

3 2-Methylnaphthalene



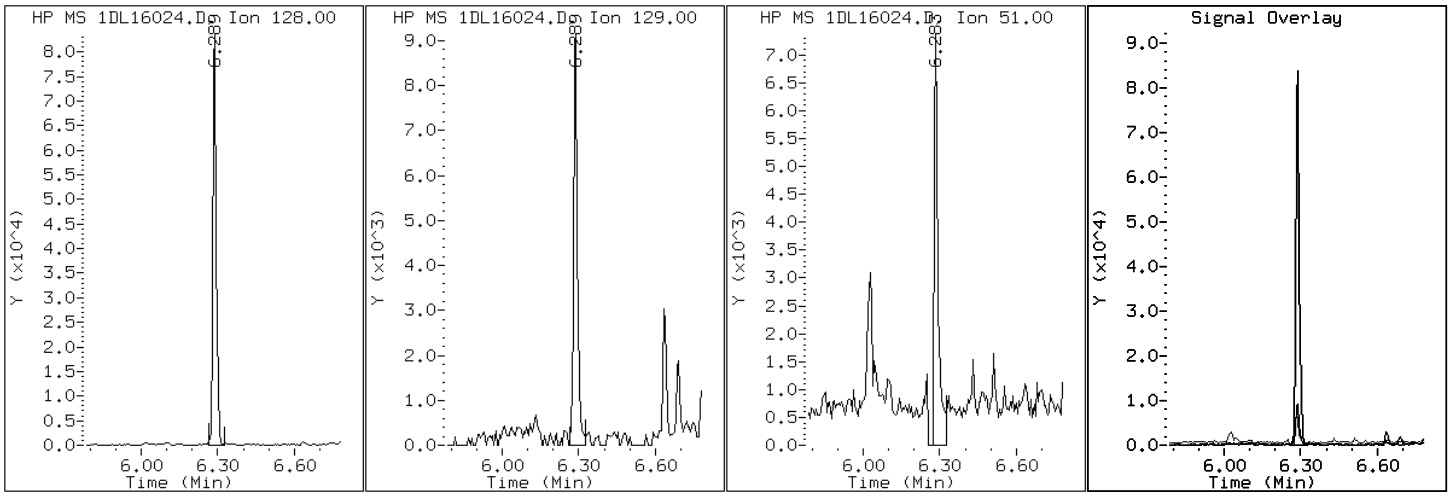
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

2 Naphthalene



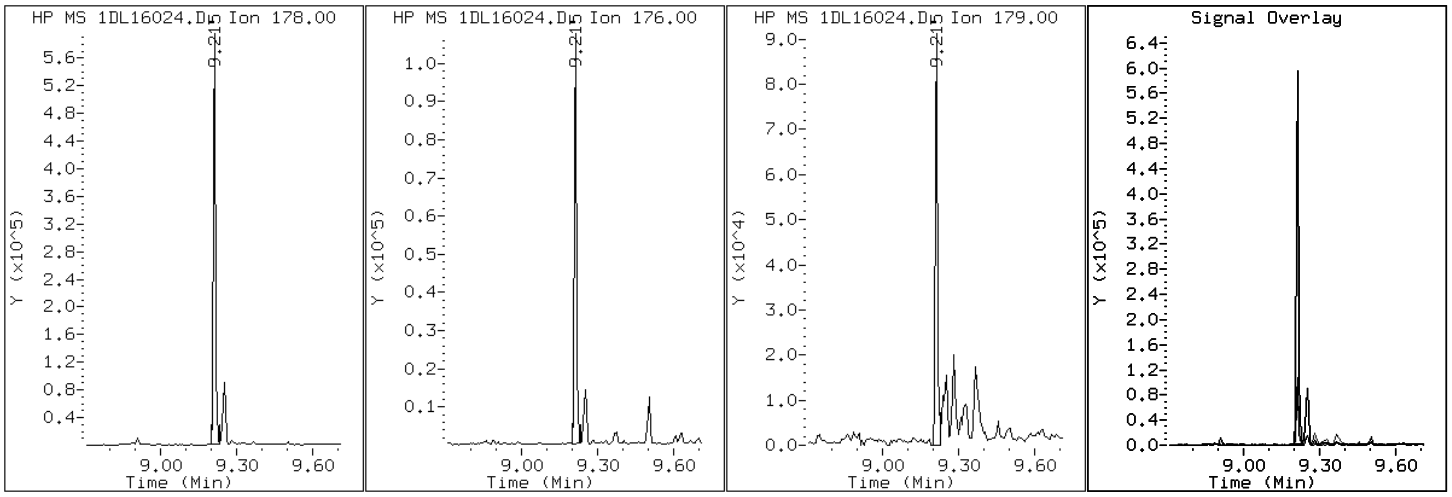
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

10 Phenanthrene



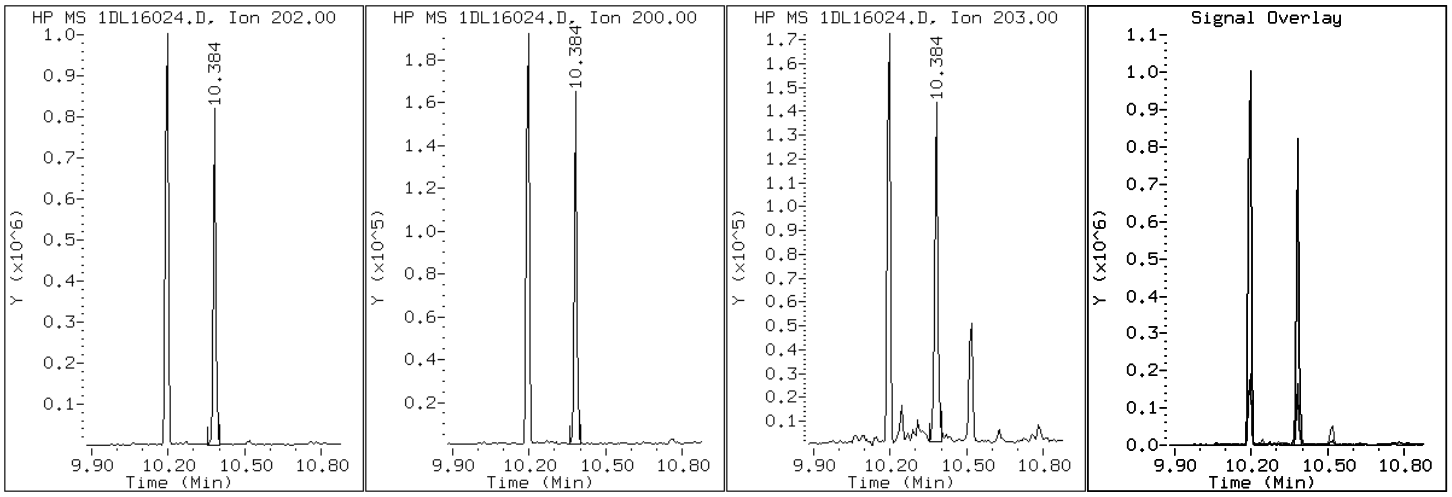
Data File: 1DL16024.D

Date: 16-DEC-2012 18:35

Client ID: FM0165G-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-24-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16024.D
Inj. Date and Time: 16-DEC-2012 18:35
Instrument ID: BSMSD.i
Client ID: FM0165G-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

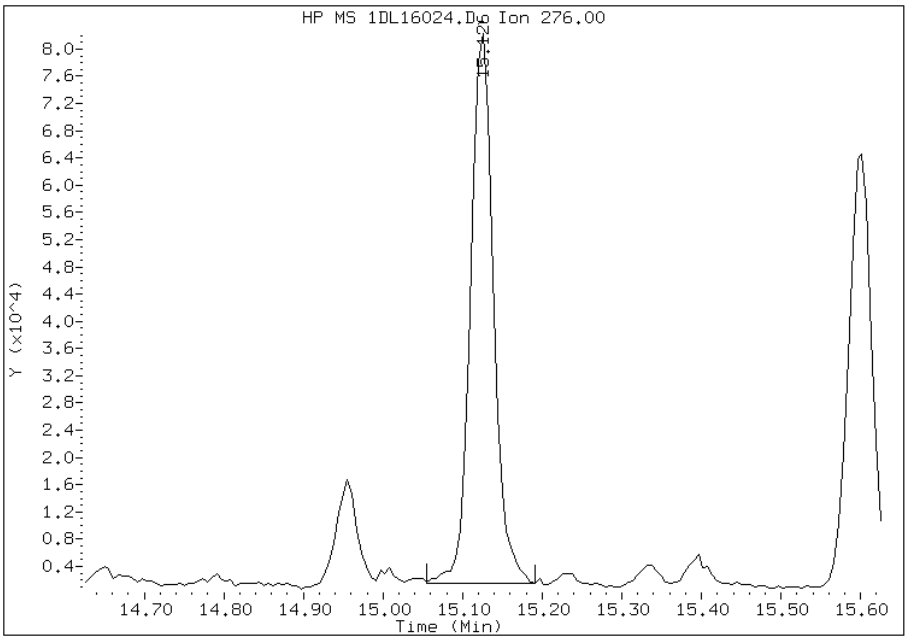
Processing Integration Results

RT: 15.13

Response: 160712

Amount: 2

Conc: 157



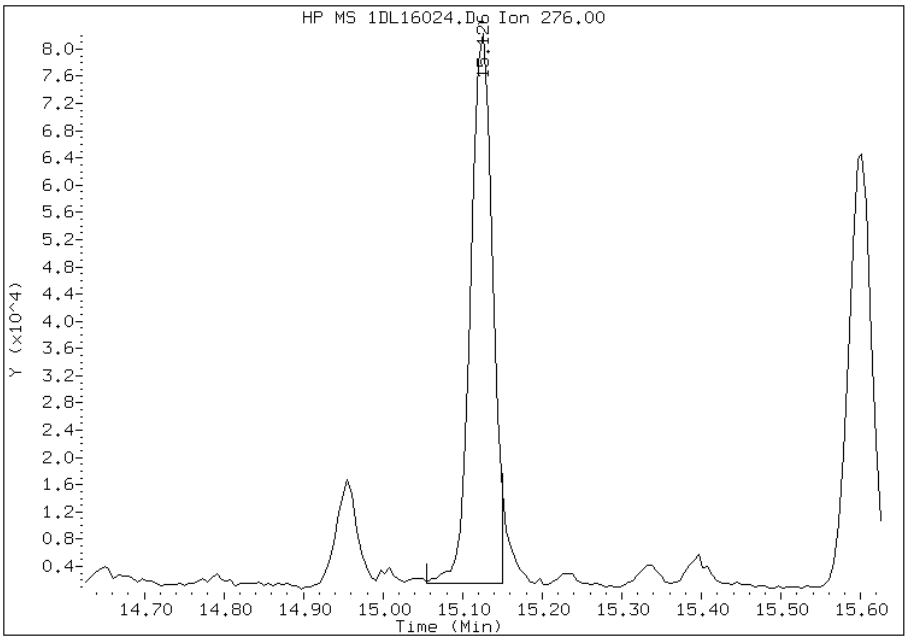

Manual Integration Results

RT: 15.13

Response: 153949

Amount: 2

Conc: 150




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165H-CS | Lab Sample ID: 680-85534-25

Matrix: Solid | Lab File ID: 1DL16025.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:05

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.06(g) | Date Analyzed: 12/16/2012 18:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 120 | U | 120 | 25 |
| 208-96-8 | Acenaphthylene | 7.2 | J | 50 | 6.2 |
| 120-12-7 | Anthracene | 19 | | 10 | 5.2 |
| 56-55-3 | Benzo[a]anthracene | 76 | | 10 | 4.9 |
| 50-32-8 | Benzo[a]pyrene | 64 | | 13 | 6.5 |
| 205-99-2 | Benzo[b]fluoranthene | 130 | | 15 | 7.6 |
| 191-24-2 | Benzo[g,h,i]perylene | 34 | | 25 | 5.5 |
| 207-08-9 | Benzo[k]fluoranthene | 41 | | 10 | 4.5 |
| 218-01-9 | Chrysene | 120 | | 11 | 5.6 |
| 53-70-3 | Dibenz(a,h)anthracene | 14 | J | 25 | 5.1 |
| 206-44-0 | Fluoranthene | 150 | | 25 | 5.0 |
| 86-73-7 | Fluorene | 11 | J | 25 | 5.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 35 | | 25 | 8.9 |
| 90-12-0 | 1-Methylnaphthalene | 55 | | 50 | 5.5 |
| 91-57-6 | 2-Methylnaphthalene | 82 | | 50 | 8.9 |
| 91-20-3 | Naphthalene | 140 | | 50 | 5.5 |
| 85-01-8 | Phenanthrene | 150 | | 10 | 4.9 |
| 129-00-0 | Pyrene | 96 | | 25 | 4.6 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 69 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16025.D
Lab Smp Id: 680-85534-A-25-A  Client Smp ID: FM0165H-CS
Inj Date  : 16-DEC-2012 18:58
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-25-A
Misc Info : 680-85534-A-25-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.060 | Weight Extracted |
| M | 20.181 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.269 | 6.265 | (1.000) | 4165292 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.938 | 7.934 | (1.000) | 2430666 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.195 | 9.191 | (1.000) | 3955091 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.501 | 9.503 | (1.033) | 428069 | 6.86202 | 570 |
| * 17 Chrysene-d12 | 240 | 11.563 | 11.553 | (1.000) | 3870666 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.484 | 13.463 | (1.000) | 3552108 | 40.0000 | |
| 2 Naphthalene | 128 | 6.287 | 6.283 | (1.003) | 182345 | 1.68596 | 140 |
| 3 2-Methylnaphthalene | 142 | 6.980 | 6.982 | (1.113) | 68800 | 0.98524 | 82 |
| 4 1-Methylnaphthalene | 142 | 7.074 | 7.076 | (1.128) | 43658 | 0.65946 | 55 |
| 5 Acenaphthylene | 152 | 7.803 | 7.805 | (0.983) | 9187 | 0.08653 | 7.2 |
| 8 Fluorene | 166 | 8.402 | 8.398 | (1.058) | 9704 | 0.12800 | 11 |
| 10 Phenanthrene | 178 | 9.213 | 9.209 | (1.002) | 200217 | 1.76921 | 150 |
| 11 Anthracene | 178 | 9.248 | 9.250 | (1.006) | 26084 | 0.22991 | 19 |
| 12 Carbazole | 167 | 9.383 | 9.379 | (1.020) | 24003 | 0.23897 | 20 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 14 Fluoranthene | 202 | 10.194 | 10.190 | (1.109) | 208303 | 1.82125 | 150 |
| 15 Pyrene | 202 | 10.382 | 10.378 | (0.898) | 142709 | 1.15602 | 96 |
| 16 Benzo(a)anthracene | 228 | 11.545 | 11.530 | (0.998) | 95555 | 0.91474 | 76 |
| 18 Chrysene | 228 | 11.587 | 11.583 | (1.002) | 152616 | 1.39175 | 120 |
| 19 Benzo(b)fluoranthene | 252 | 12.903 | 12.893 | (0.957) | 137267 | 1.57445 | 130 |
| 20 Benzo(k)fluoranthene | 252 | 12.938 | 12.940 | (0.959) | 47593 | 0.49269 | 41(H) |
| 21 Benzo(a)pyrene | 252 | 13.373 | 13.363 | (0.992) | 66869 | 0.76869 | 64 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.118 | 15.114 | (1.121) | 36011 | 0.41971 | 35(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.159 | 15.149 | (1.124) | 14423 | 0.17126 | 14 |
| 25 Benzo(g,h,i)perylene | 276 | 15.600 | 15.590 | (1.157) | 35645 | 0.40355 | 34 |

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16025.D

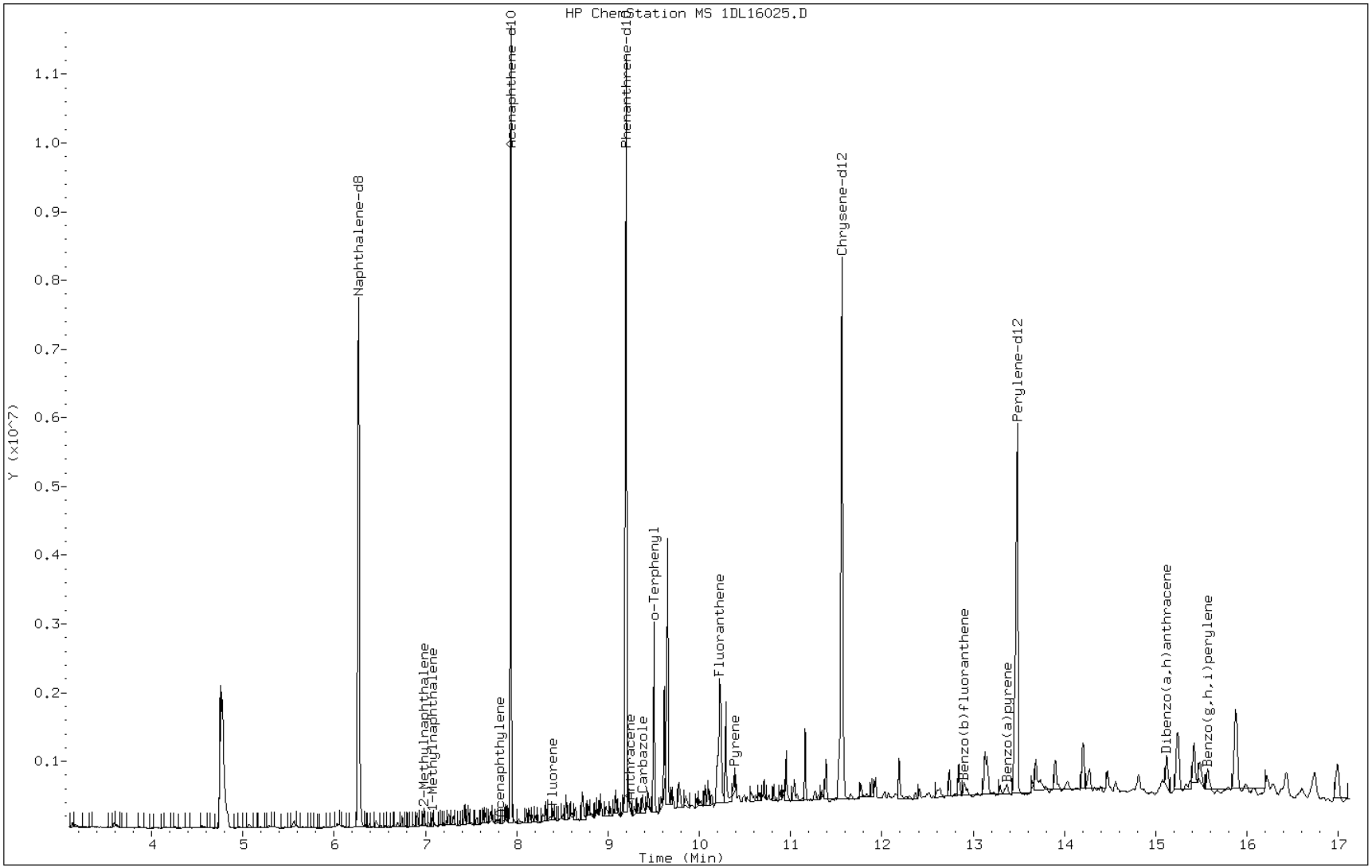
Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A

Operator: SCC



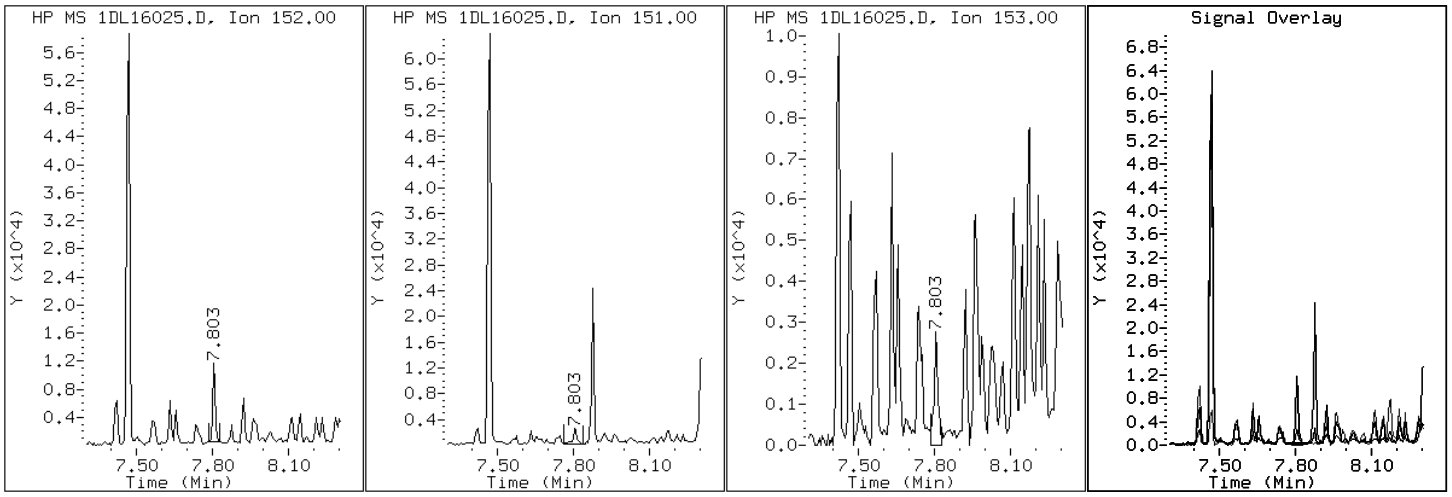
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

5 Acenaphthylene



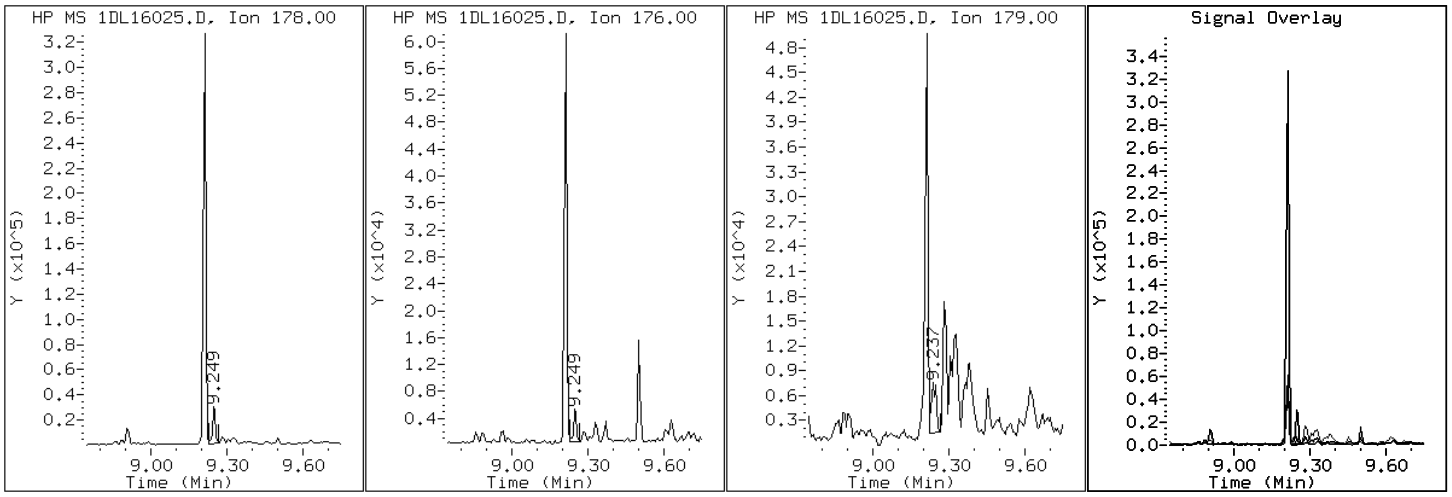
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

11 Anthracene



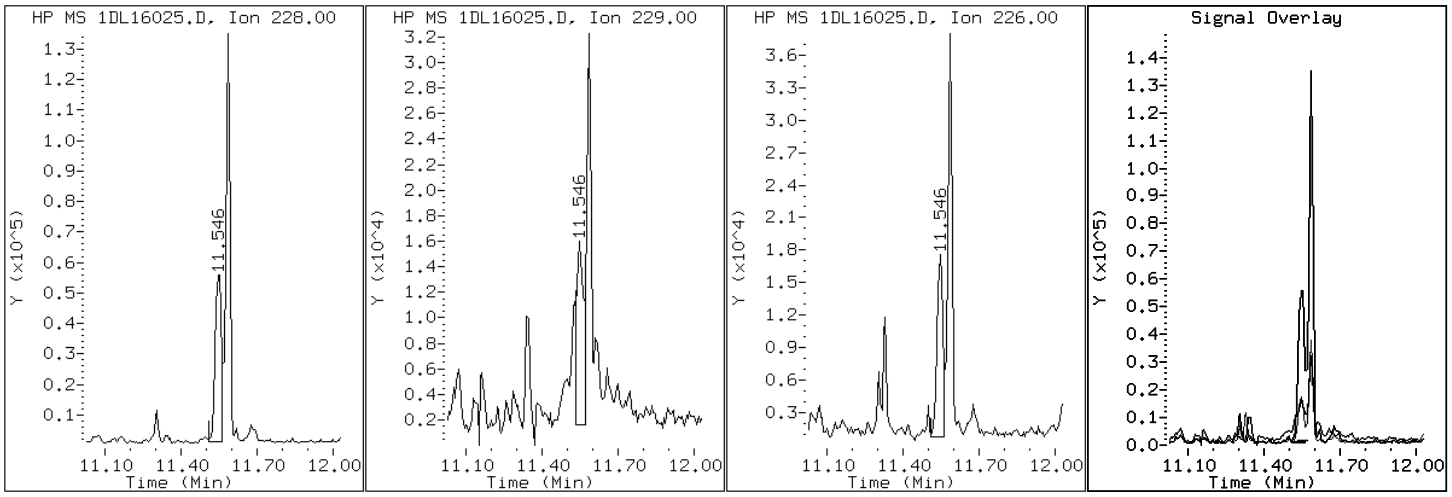
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

16 Benzo(a)anthracene



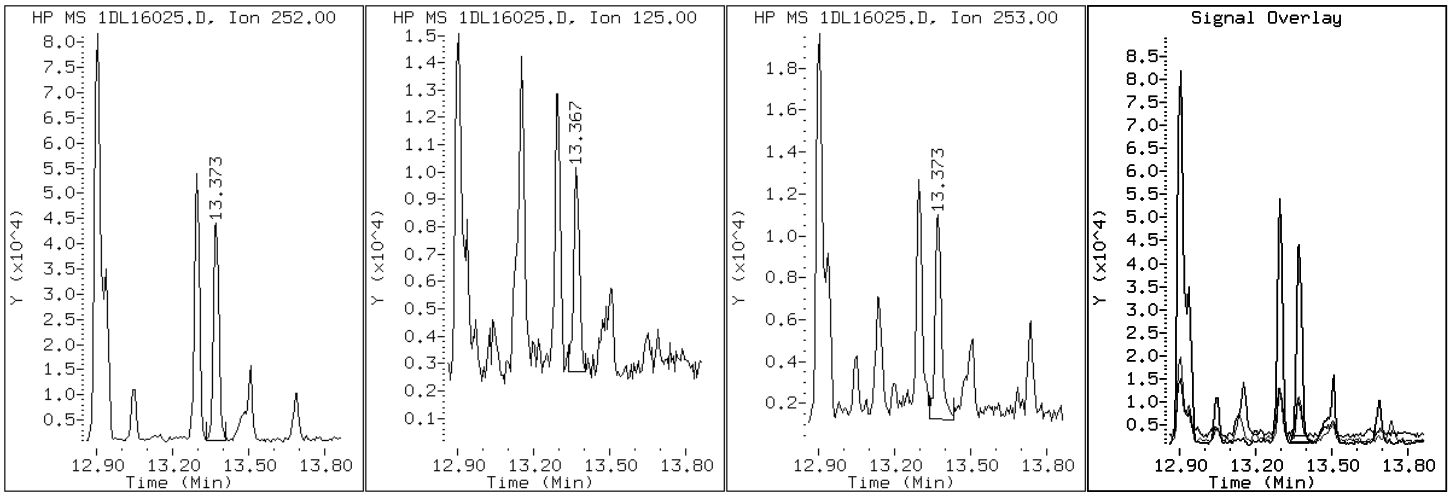
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

21 Benzo(a)pyrene



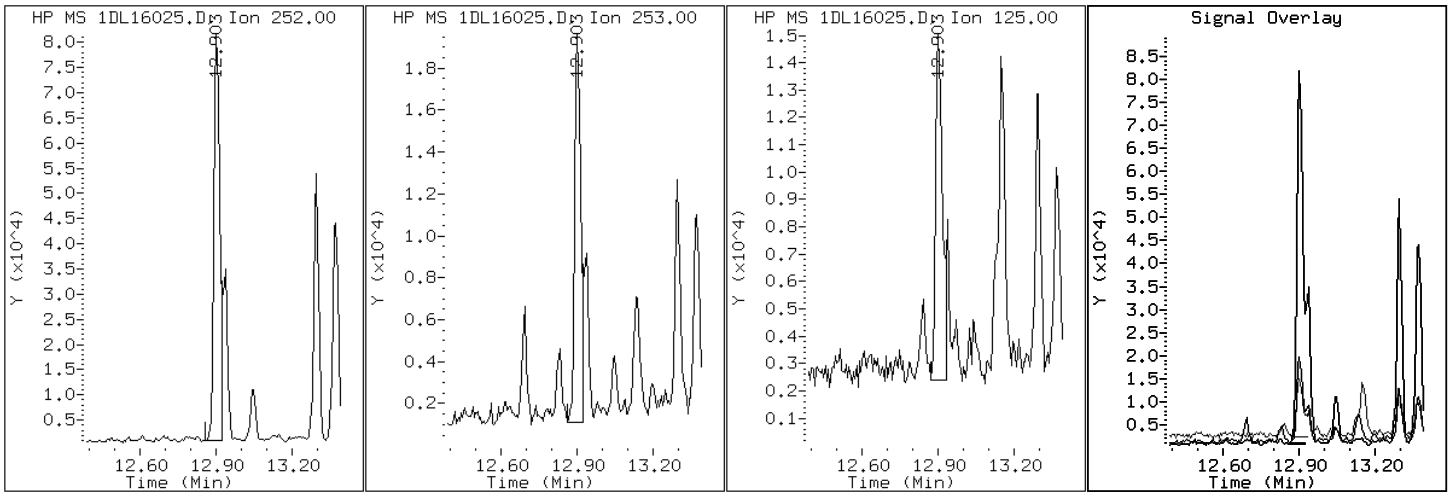
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

19 Benzo(b)fluoranthene



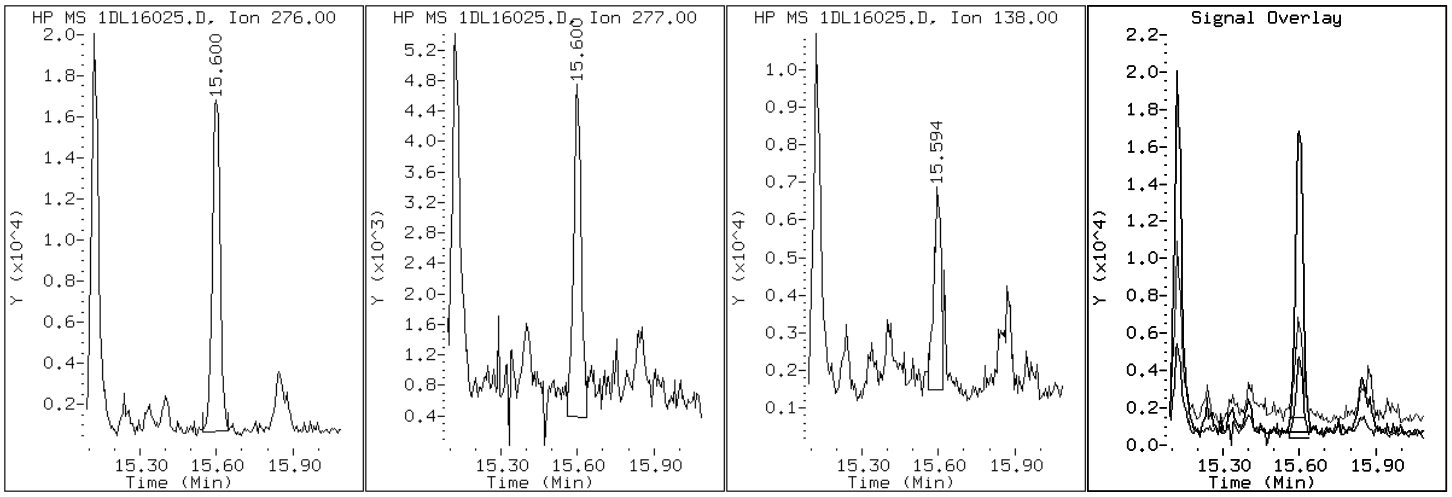
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A  Operator: SCC

25 Benzo(g,h,i)perylene



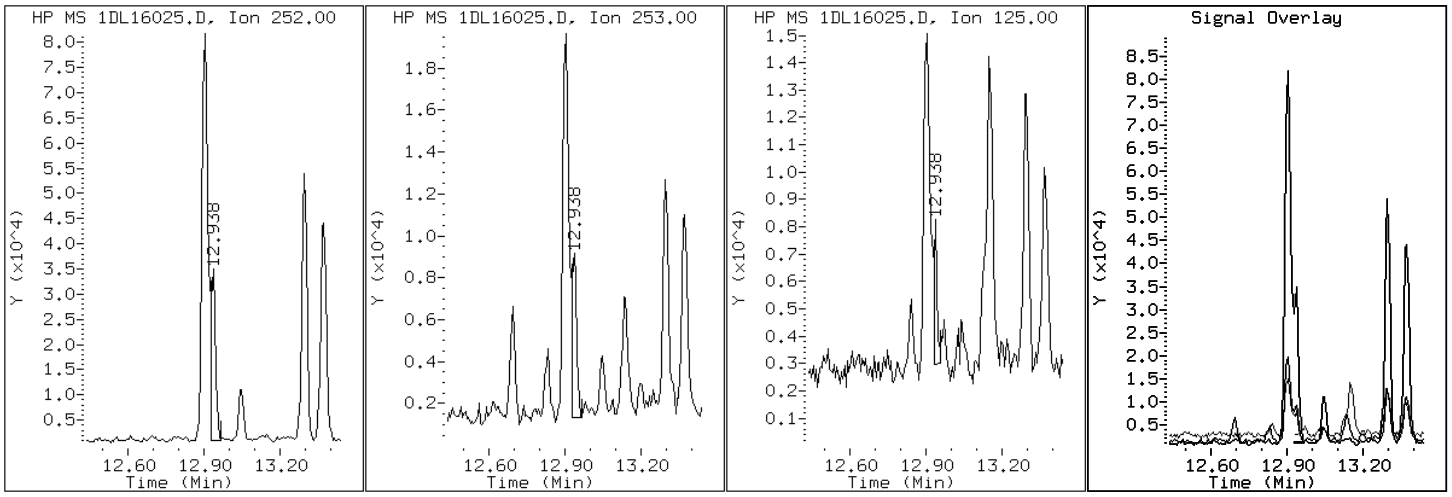
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

20 Benzo(k)fluoranthene



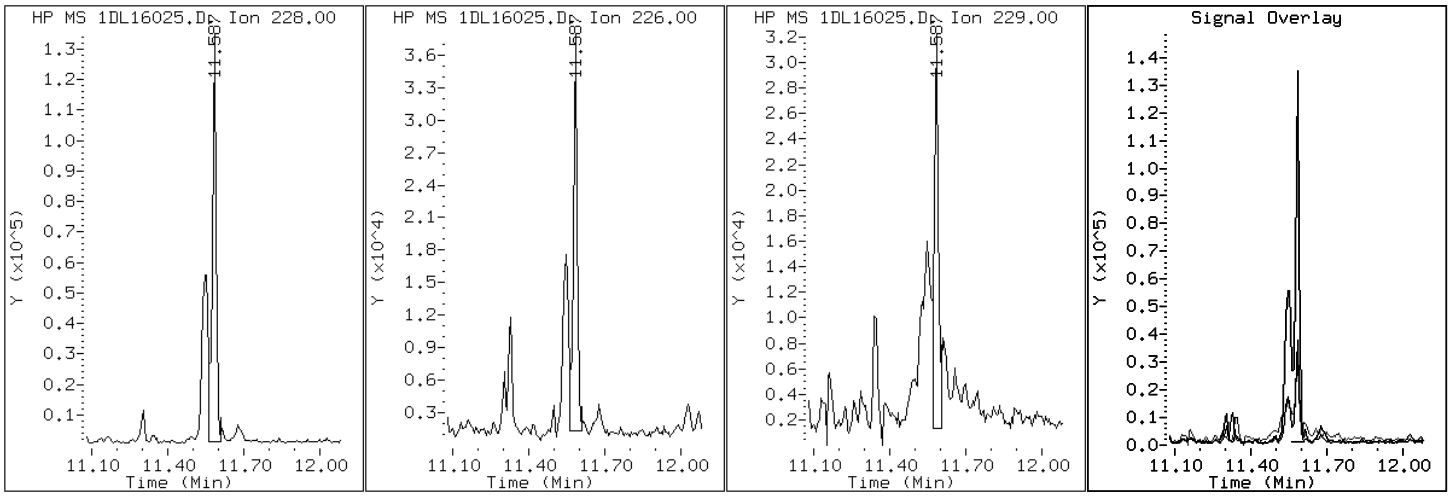
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

18 Chrysene



Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

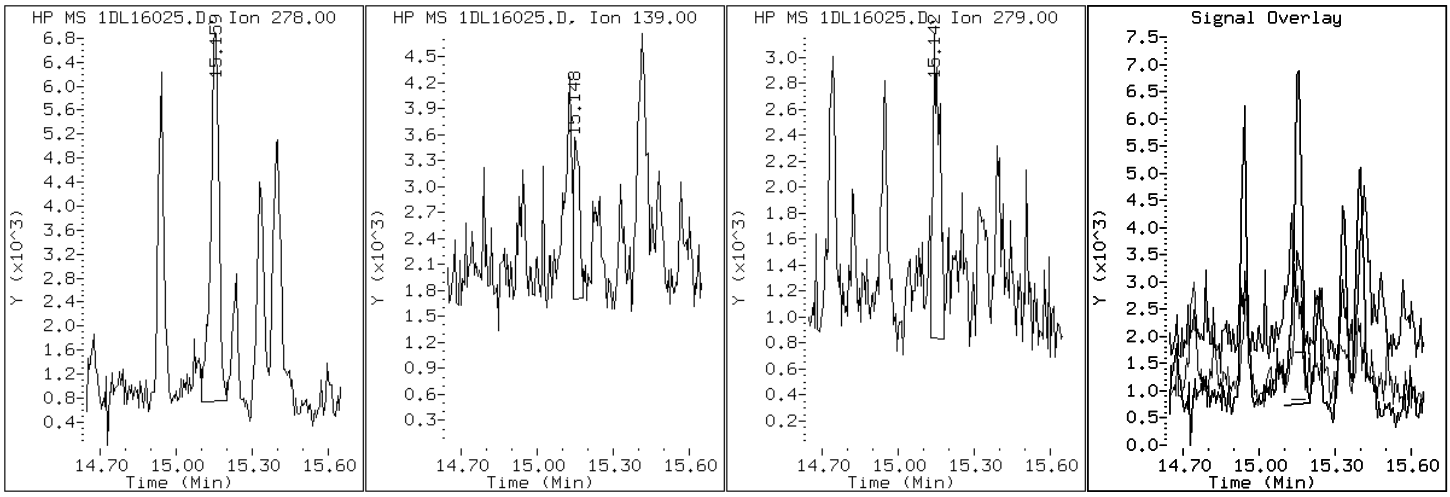
Client ID: FM0165H-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A

Operator: SCC

24 Dibenzo(a,h)anthracene



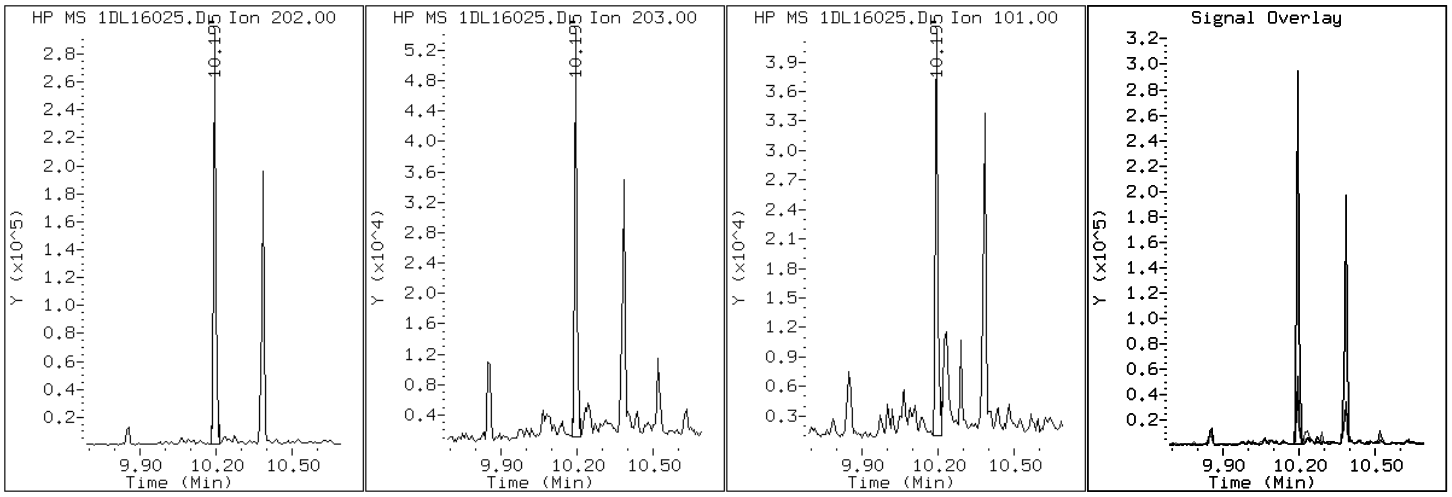
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

14 Fluoranthene



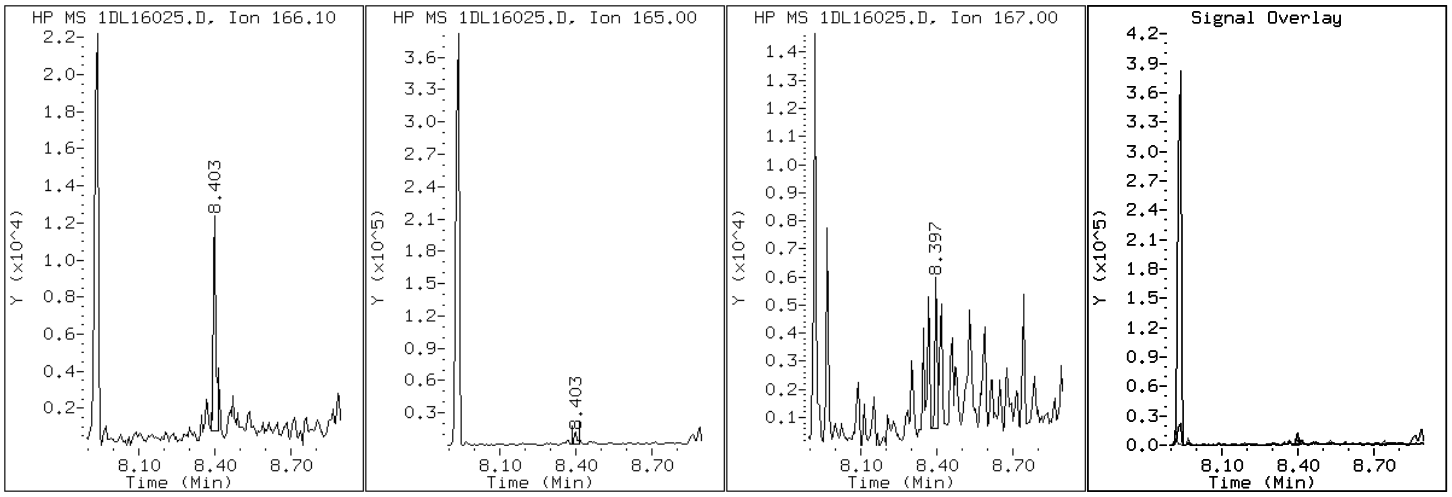
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

8 Fluorene



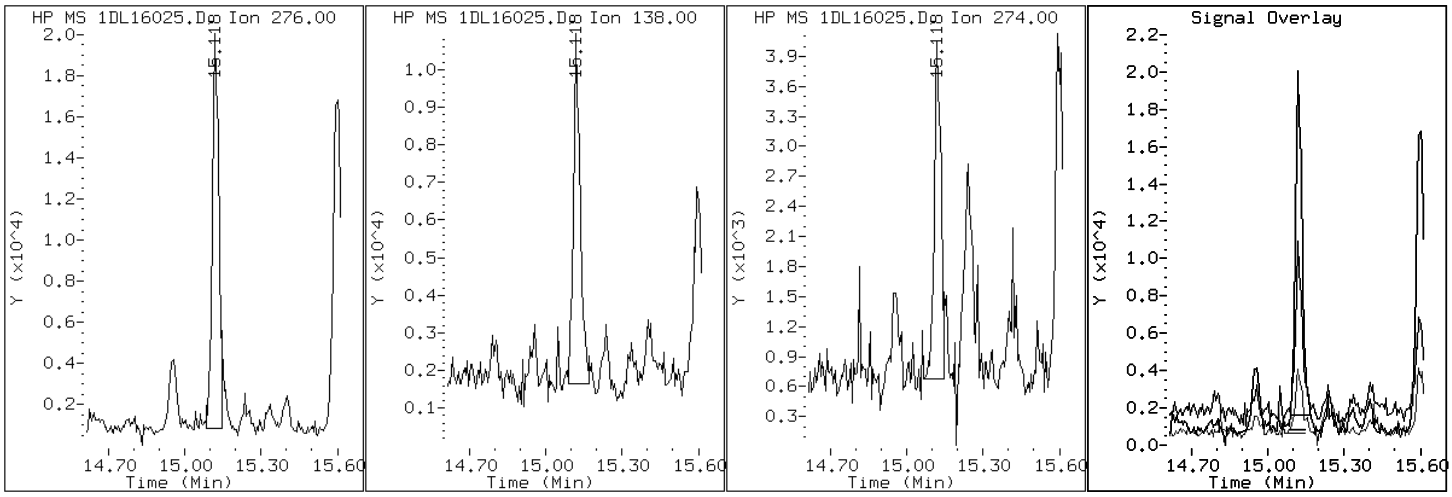
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



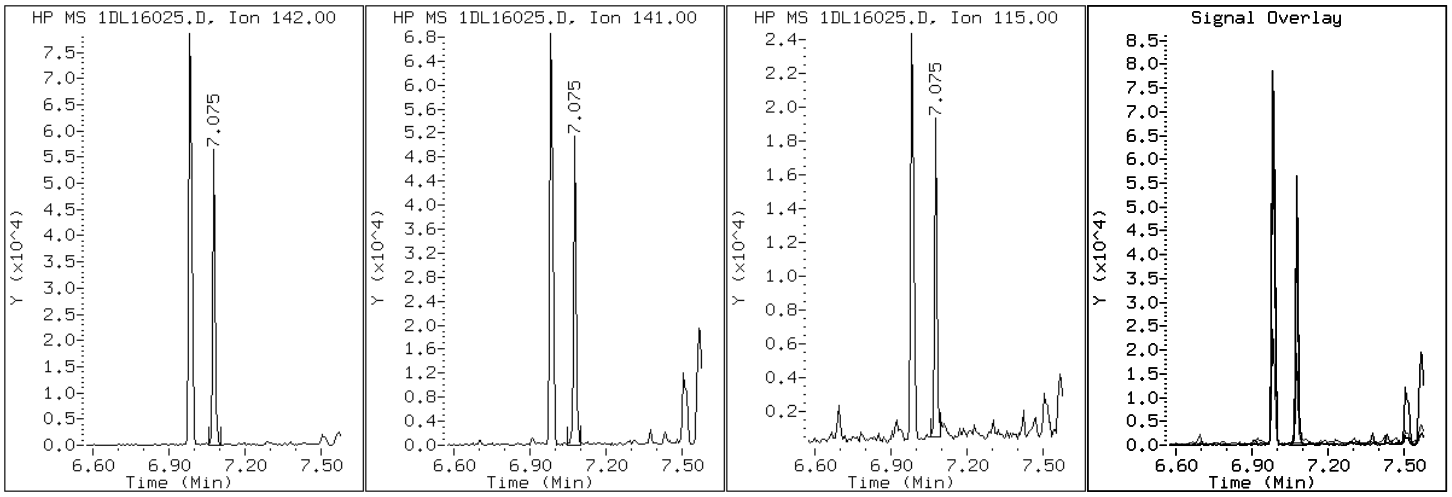
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A  Operator: SCC

4 1-Methylnaphthalene



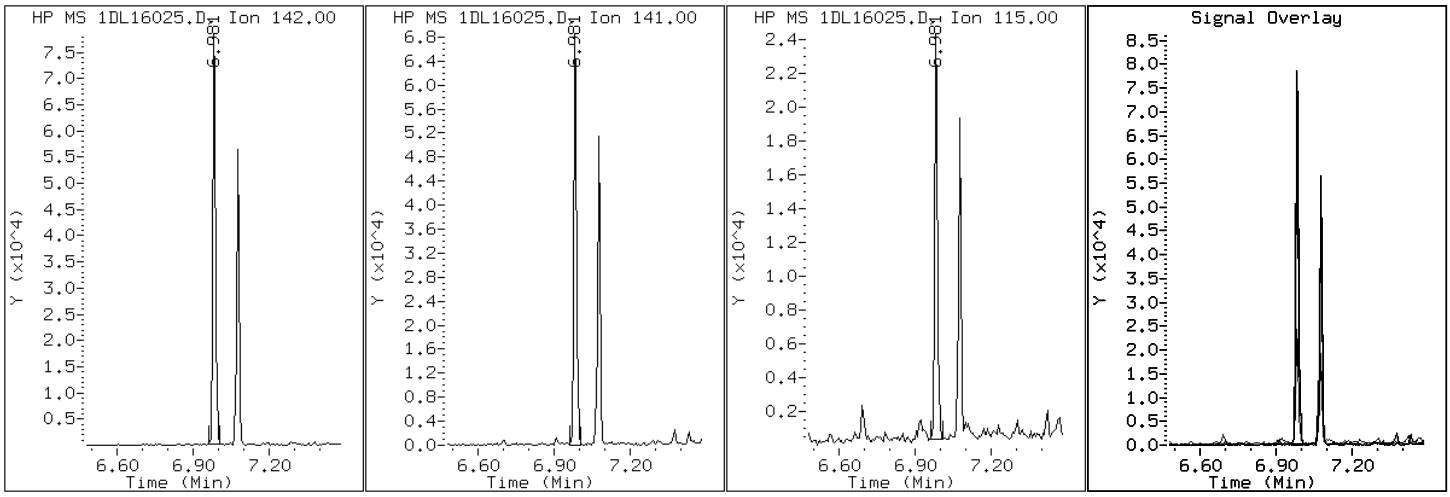
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

3 2-Methylnaphthalene



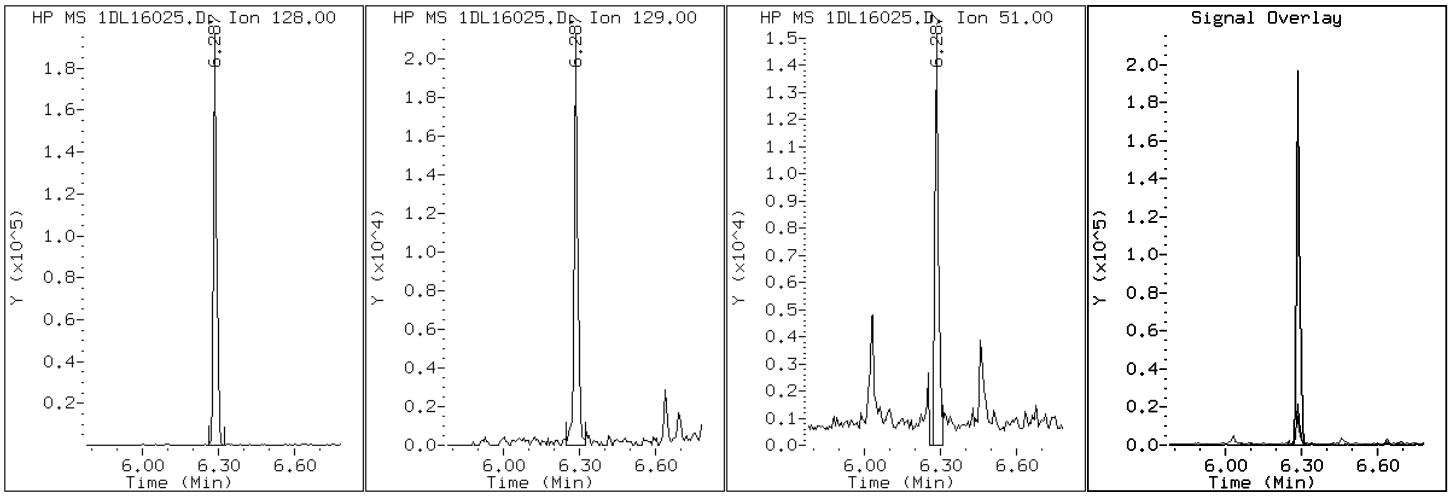
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

2 Naphthalene



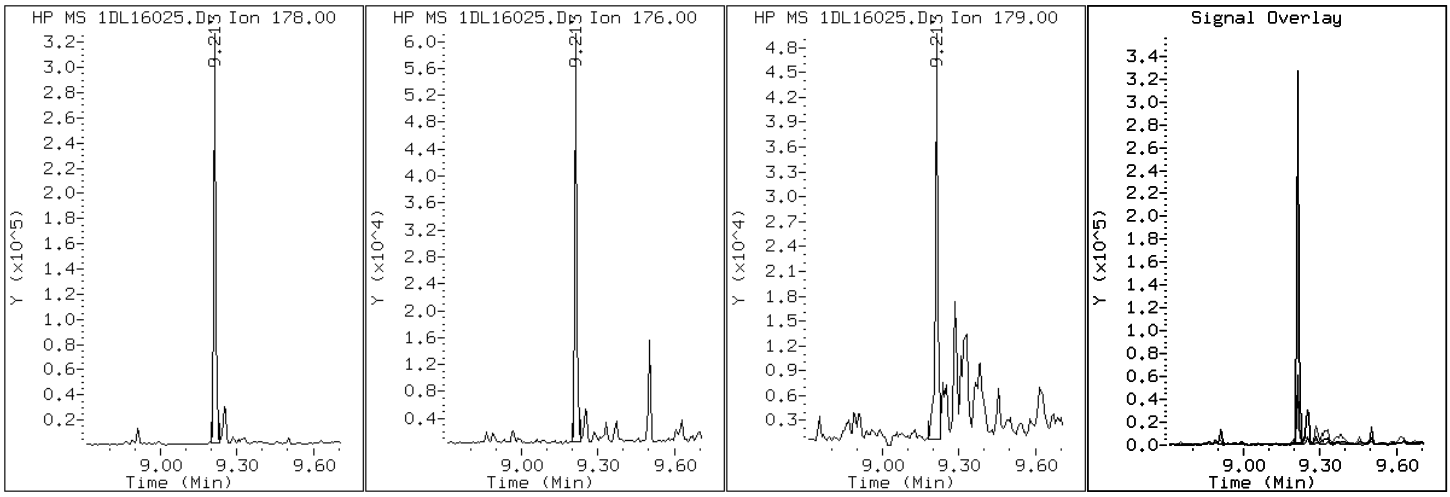
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A Operator: SCC

10 Phenanthrene



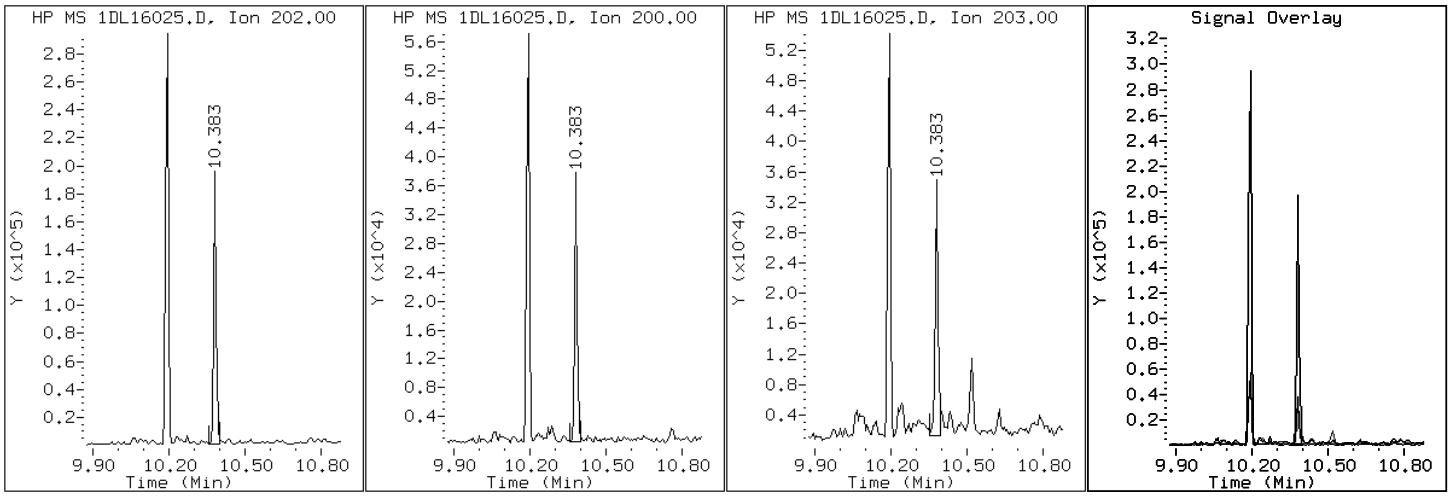
Data File: 1DL16025.D

Date: 16-DEC-2012 18:58

Client ID: FM0165H-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-25-A  Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16025.D
Inj. Date and Time: 16-DEC-2012 18:58
Instrument ID: BSMSD.i
Client ID: FM0165H-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

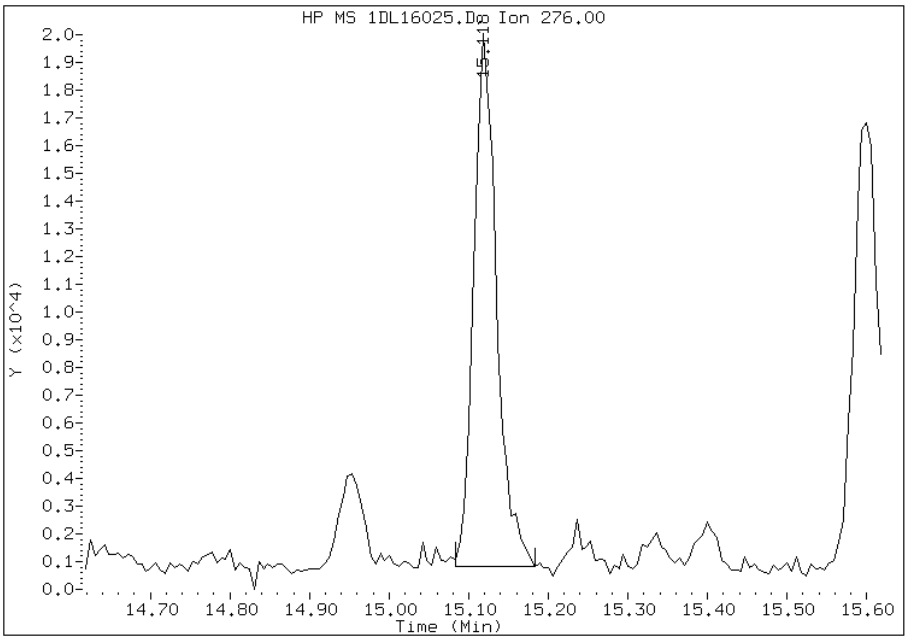
Processing Integration Results

RT: 15.12

Response: 38067

Amount: 0

Conc: 37



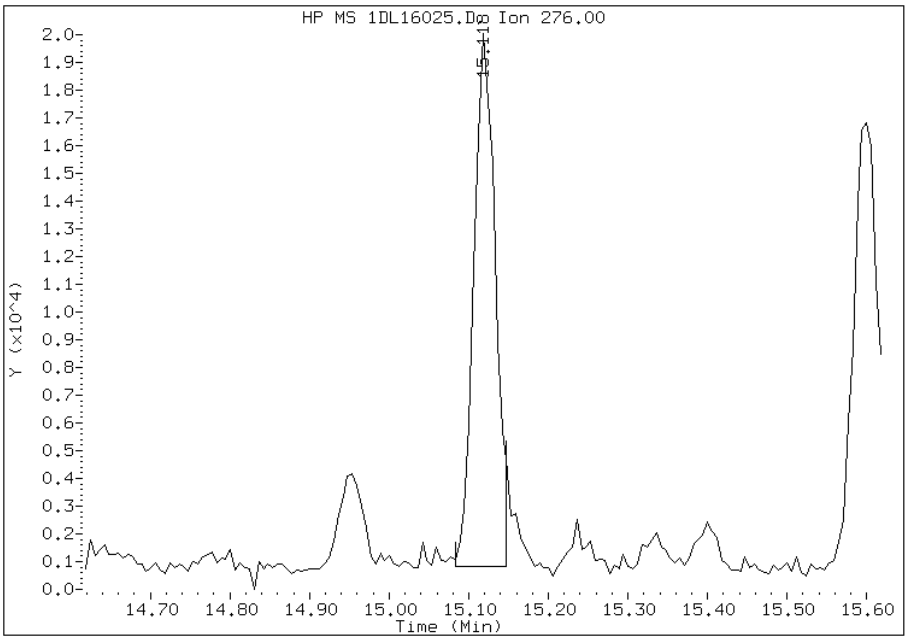

Manual Integration Results

RT: 15.12

Response: 36011

Amount: 0

Conc: 35




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165I-CS | Lab Sample ID: 680-85534-26

Matrix: Solid | Lab File ID: 1DL16026.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:29

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.01(g) | Date Analyzed: 12/16/2012 19:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 26 |
| 208-96-8 | Acenaphthylene | 8.2 | J | 52 | 6.5 |
| 120-12-7 | Anthracene | 16 | | 11 | 5.5 |
| 56-55-3 | Benzo[a]anthracene | 63 | | 10 | 5.1 |
| 50-32-8 | Benzo[a]pyrene | 52 | | 14 | 6.8 |
| 205-99-2 | Benzo[b]fluoranthene | 110 | | 16 | 7.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 29 | | 26 | 5.7 |
| 207-08-9 | Benzo[k]fluoranthene | 29 | | 10 | 4.7 |
| 218-01-9 | Chrysene | 94 | | 12 | 5.9 |
| 53-70-3 | Dibenz(a,h)anthracene | 14 | J | 26 | 5.3 |
| 206-44-0 | Fluoranthene | 130 | | 26 | 5.2 |
| 86-73-7 | Fluorene | 26 | U | 26 | 5.3 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 28 | | 26 | 9.2 |
| 90-12-0 | 1-Methylnaphthalene | 61 | | 52 | 5.7 |
| 91-57-6 | 2-Methylnaphthalene | 88 | | 52 | 9.2 |
| 91-20-3 | Naphthalene | 160 | | 52 | 5.7 |
| 85-01-8 | Phenanthrene | 140 | | 10 | 5.1 |
| 129-00-0 | Pyrene | 79 | | 26 | 4.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16026.D
Lab Smp Id: 680-85534-A-26-A  Client Smp ID: FM0165I-CS
Inj Date  : 16-DEC-2012 19:21
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-26-A
Misc Info : 680-85534-A-26-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.010 | Weight Extracted |
| M | 23.193 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.267 | 6.265 | (1.000) | 4333706 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.935 | 7.934 | (1.000) | 2548695 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.198 | 9.191 | (1.000) | 4093002 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.504 | 9.503 | (1.033) | 367313 | 5.68969 | 490 |
| * 17 Chrysene-d12 | 240 | 11.566 | 11.553 | (1.000) | 4002999 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.488 | 13.463 | (1.000) | 3673114 | 40.0000 | |
| 2 Naphthalene | 128 | 6.284 | 6.283 | (1.003) | 208771 | 1.85528 | 160 |
| 3 2-Methylnaphthalene | 142 | 6.983 | 6.982 | (1.114) | 73396 | 1.01021 | 88 |
| 4 1-Methylnaphthalene | 142 | 7.077 | 7.076 | (1.129) | 48441 | 0.70327 | 61 |
| 5 Acenaphthylene | 152 | 7.806 | 7.805 | (0.984) | 10562 | 0.09487 | 8.2 |
| 10 Phenanthrene | 178 | 9.210 | 9.209 | (1.001) | 194672 | 1.66225 | 140 |
| 11 Anthracene | 178 | 9.251 | 9.250 | (1.006) | 21452 | 0.18271 | 16 |
| 12 Carbazole | 167 | 9.386 | 9.379 | (1.020) | 22594 | 0.21737 | 19 |
| 14 Fluoranthene | 202 | 10.191 | 10.190 | (1.108) | 174142 | 1.47127 | 130 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Pyrene | 202 | 10.379 | 10.378 | (0.897) | 116183 | 0.91003 | 79 |
| 16 Benzo(a)anthracene | 228 | 11.549 | 11.530 | (0.998) | 78420 | 0.72589 | 63 |
| 18 Chrysene | 228 | 11.584 | 11.583 | (1.002) | 123482 | 1.08884 | 94 |
| 19 Benzo(b)fluoranthene | 252 | 12.906 | 12.893 | (0.957) | 110914 | 1.23027 | 110 |
| 20 Benzo(k)fluoranthene | 252 | 12.935 | 12.940 | (0.959) | 33691 | 0.33729 | 29(H) |
| 21 Benzo(a)pyrene | 252 | 13.370 | 13.363 | (0.991) | 54050 | 0.60086 | 52 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.121 | 15.114 | (1.121) | 28205 | 0.31790 | 28(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.156 | 15.149 | (1.124) | 13582 | 0.15596 | 14 |
| 25 Benzo(g,h,i)perylene | 276 | 15.597 | 15.590 | (1.156) | 30193 | 0.33057 | 29(M) |

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16026.D

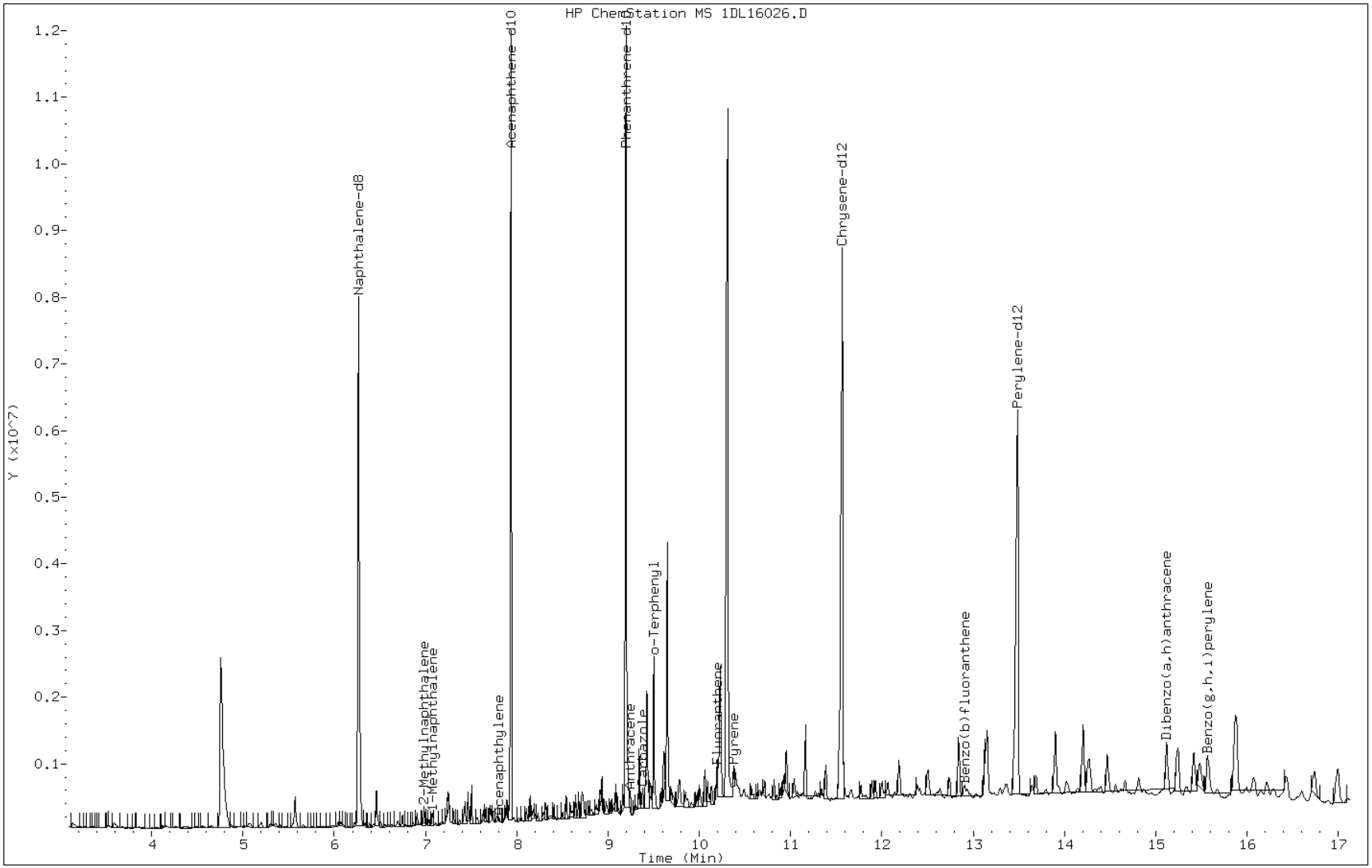
Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A

Operator: SCC



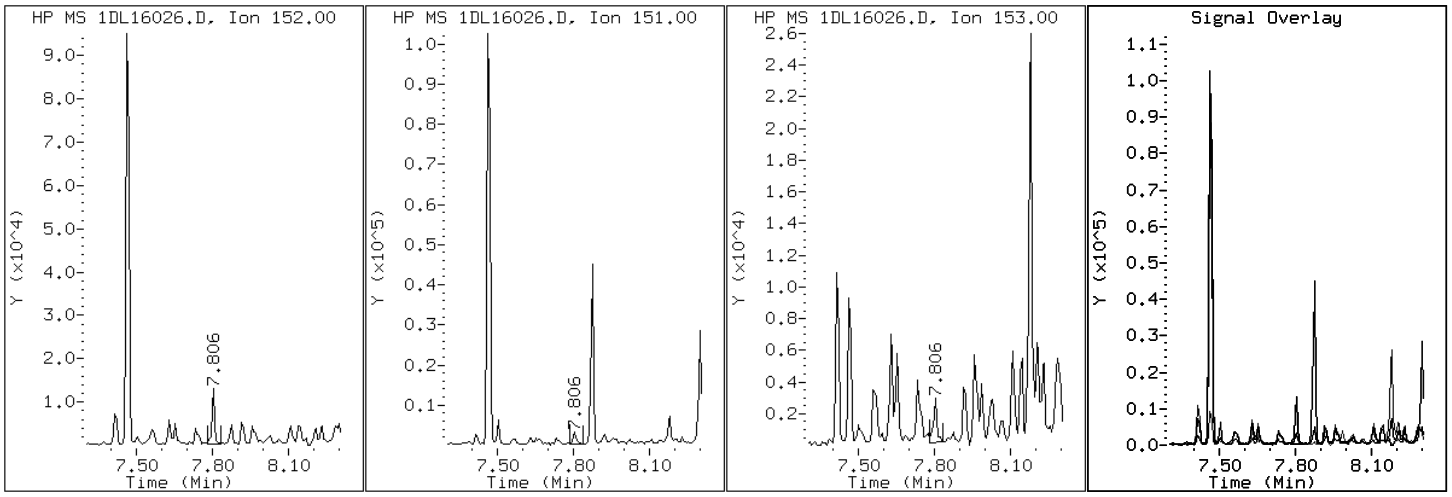
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

5 Acenaphthylene



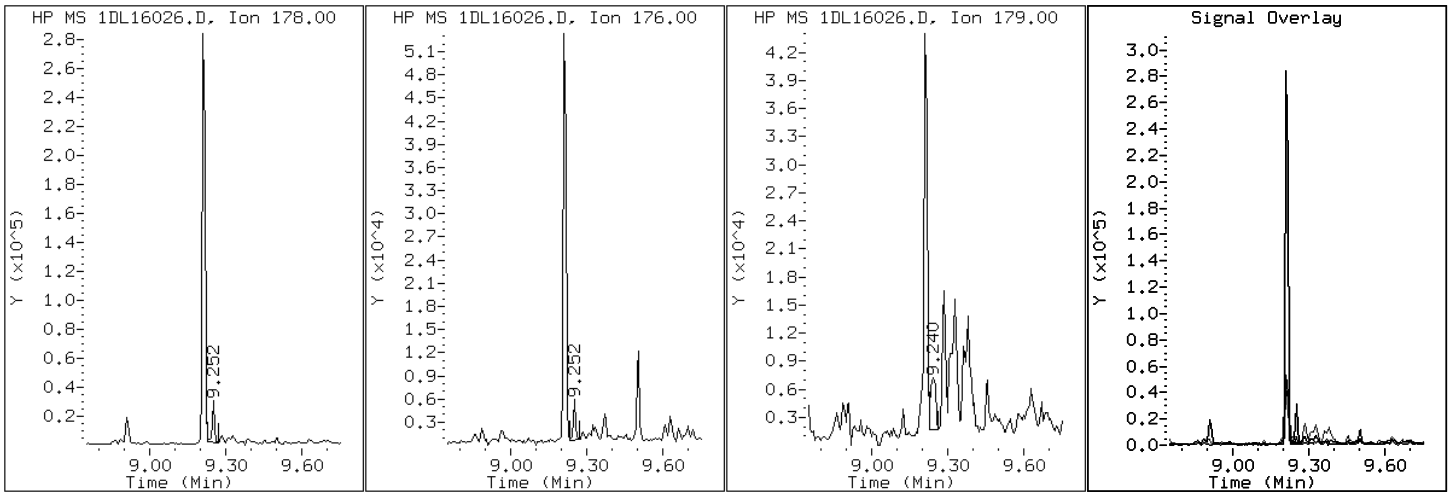
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

11 Anthracene



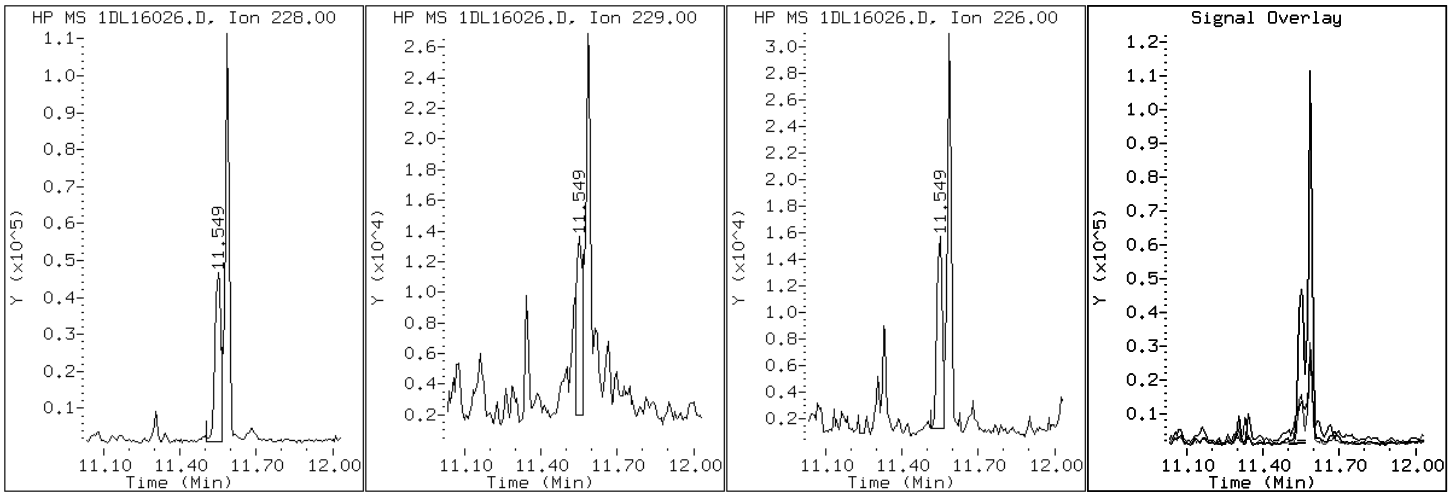
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

16 Benzo(a)anthracene



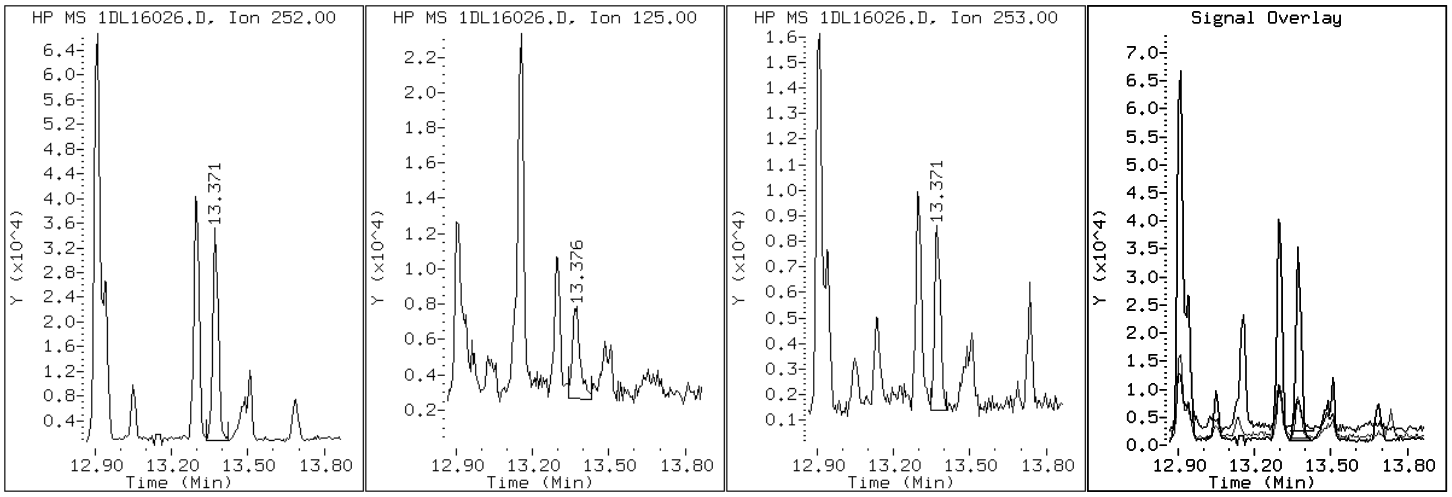
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

21 Benzo(a)pyrene



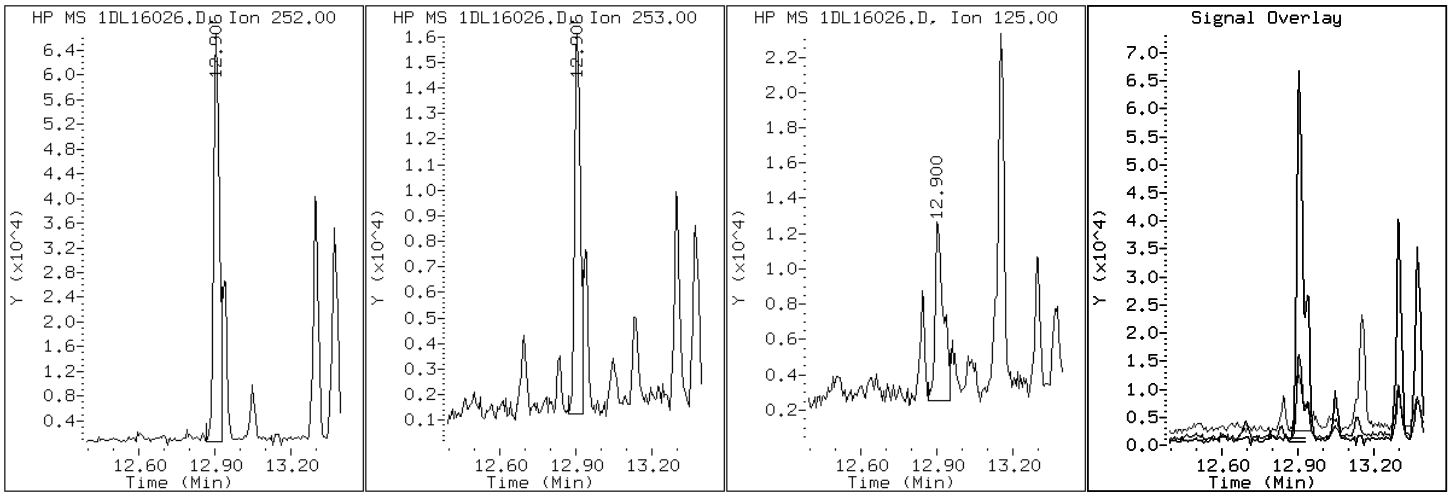
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

19 Benzo(b)fluoranthene



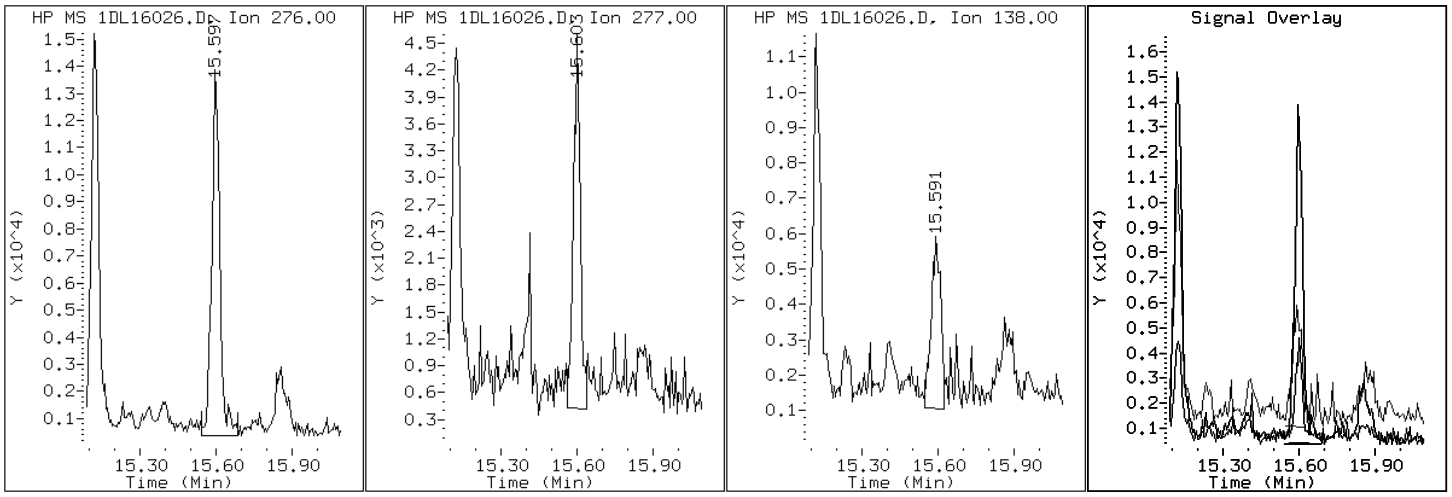
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

25 Benzo(g,h,i)perylene



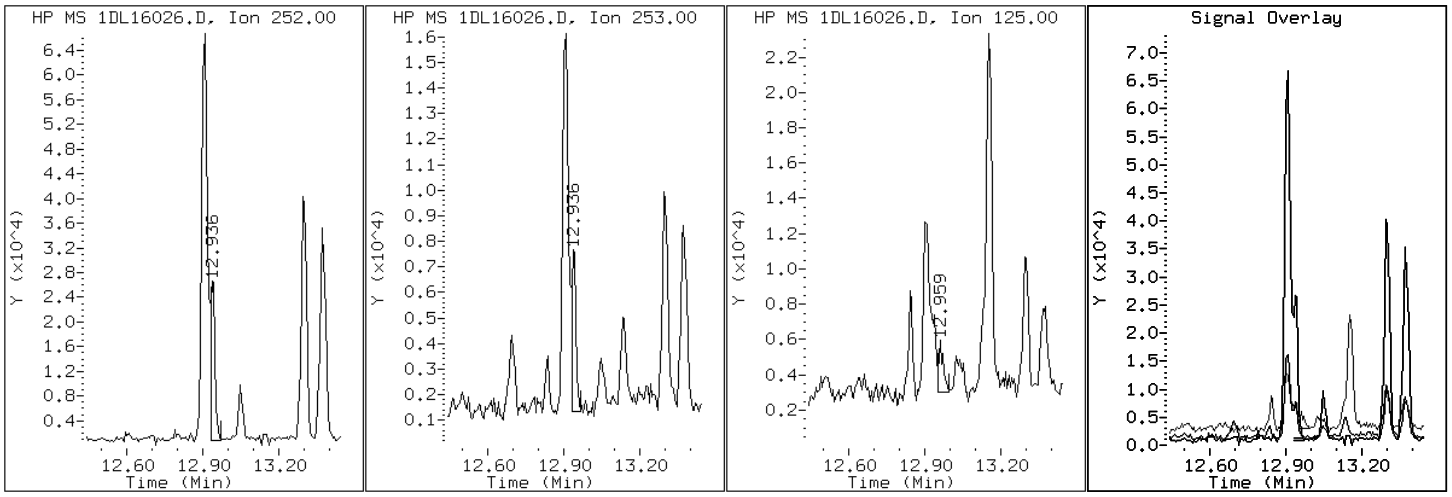
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

20 Benzo(k)fluoranthene



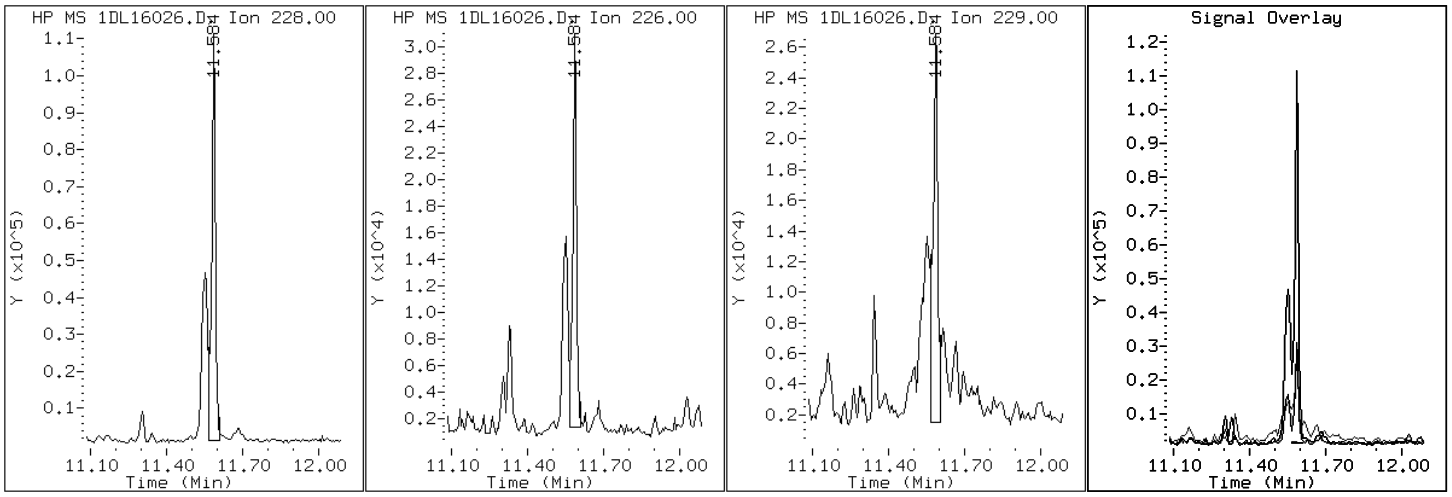
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

18 Chrysene



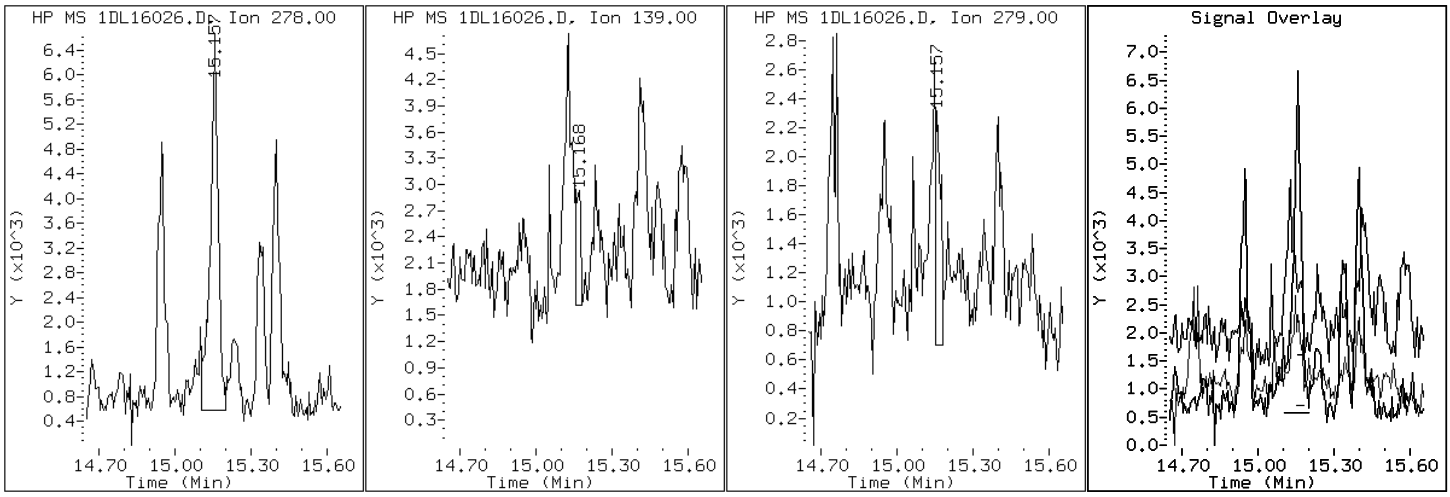
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

24 Dibenzo(a,h)anthracene



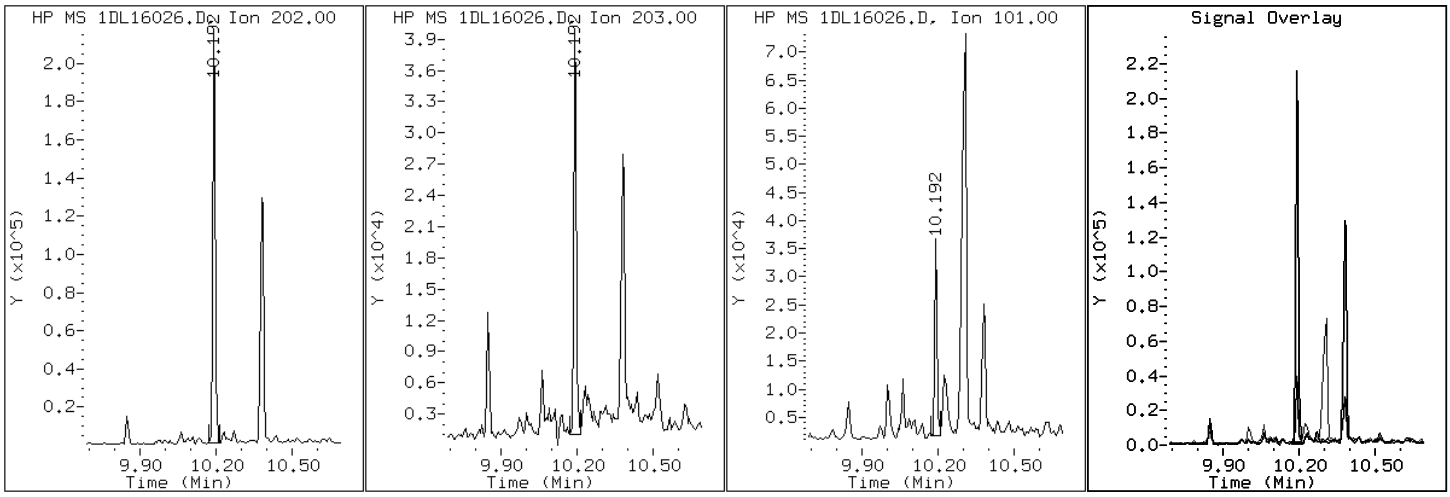
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

14 Fluoranthene



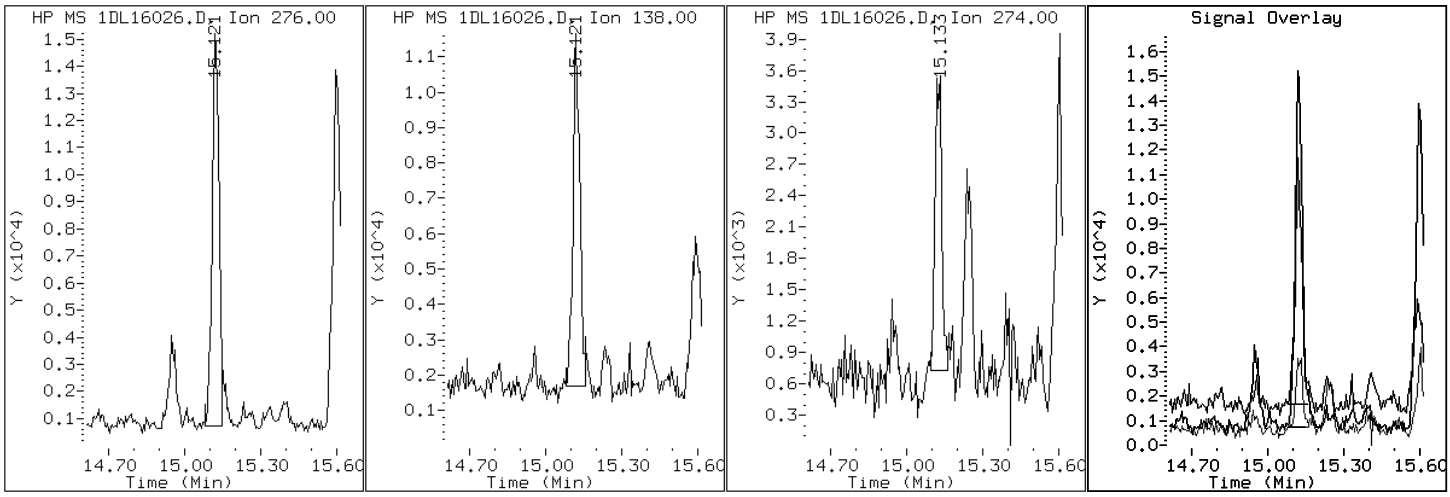
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



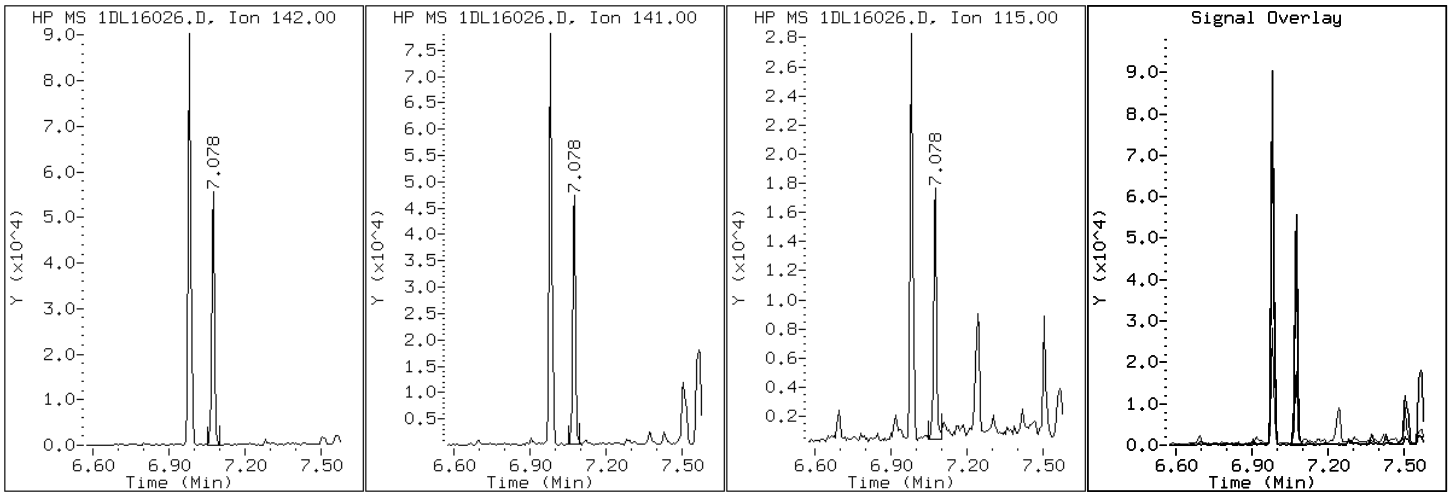
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

4 1-Methylnaphthalene



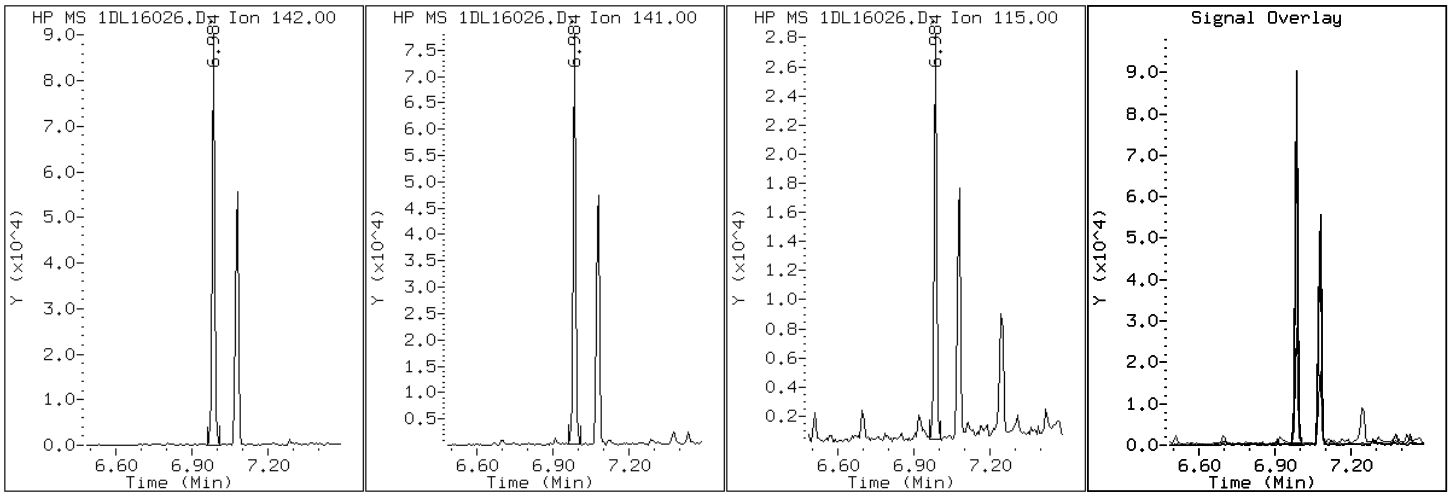
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

3 2-Methylnaphthalene



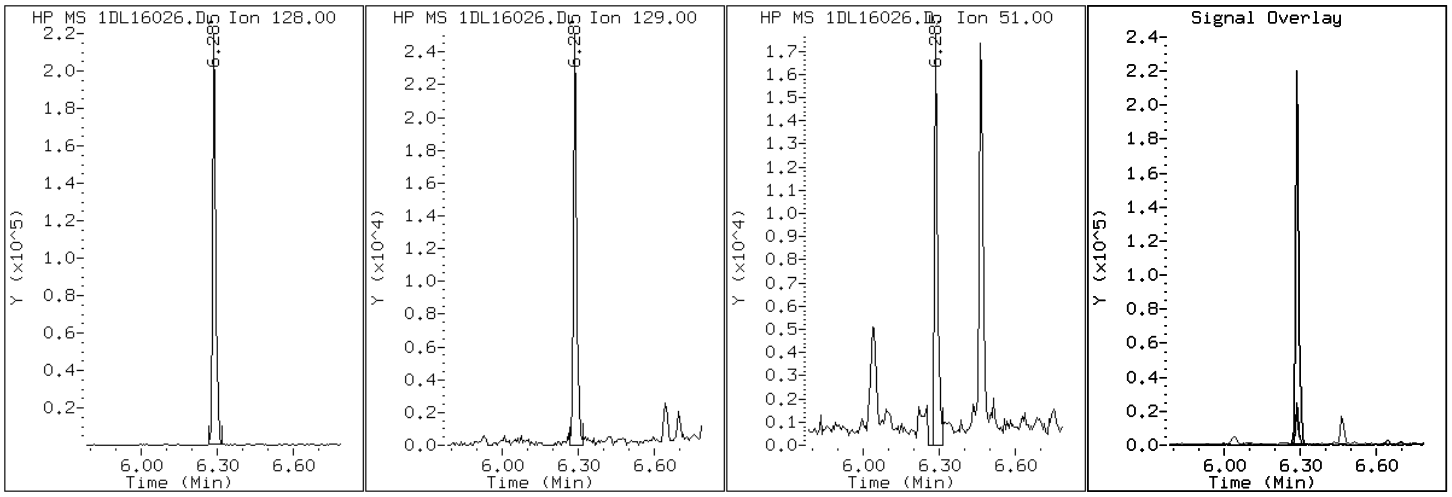
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

2 Naphthalene



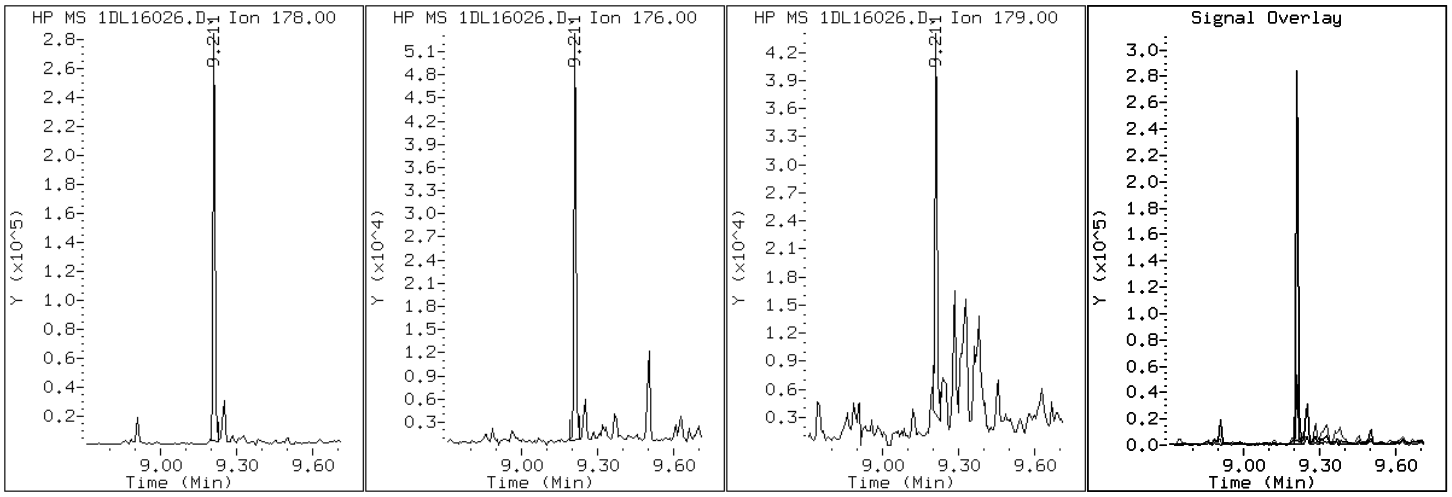
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

10 Phenanthrene



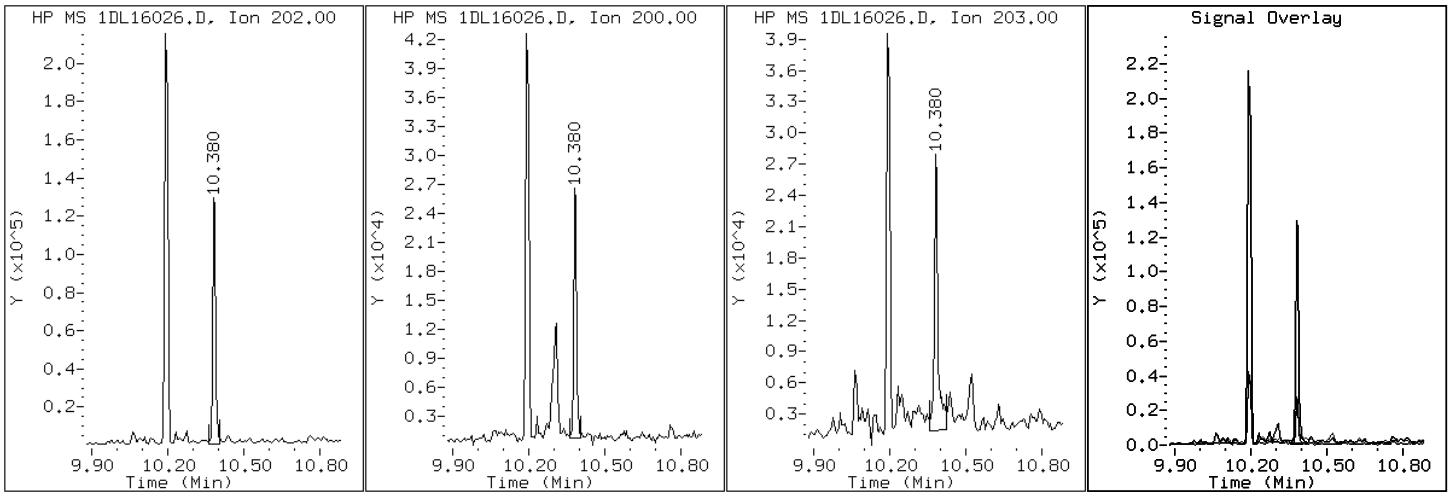
Data File: 1DL16026.D

Date: 16-DEC-2012 19:21

Client ID: FM0165I-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-26-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16026.D
Inj. Date and Time: 16-DEC-2012 19:21
Instrument ID: BSMSD.i
Client ID: FM0165I-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

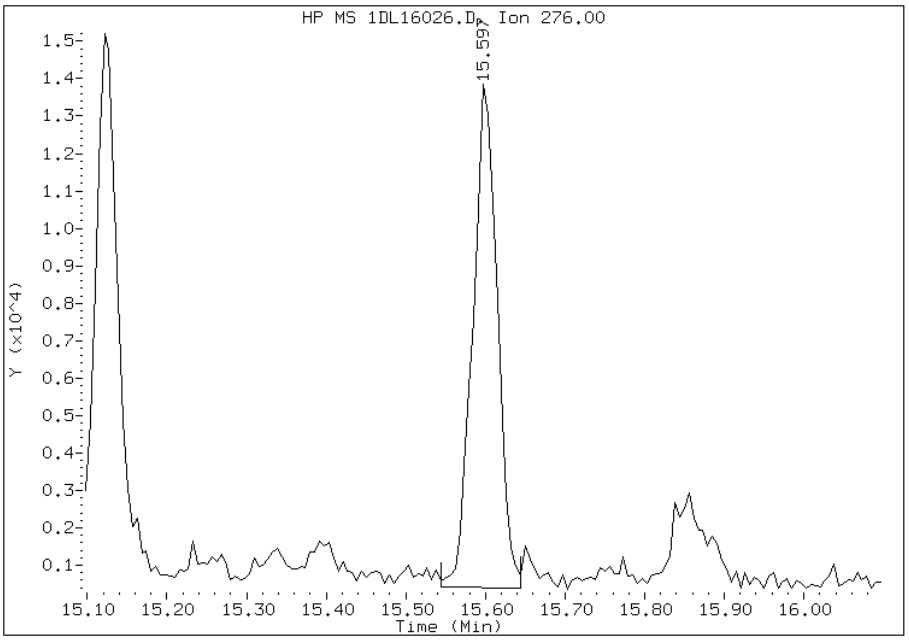
Processing Integration Results

RT: 15.60

Response: 28793

Amount: 0

Conc: 27



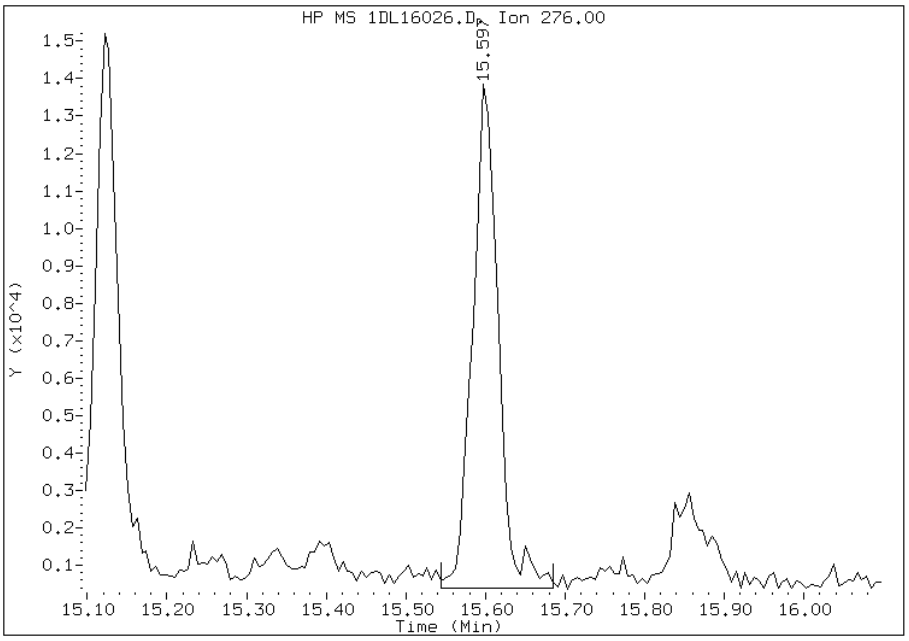

Manual Integration Results

RT: 15.60

Response: 30193

Amount: 0

Conc: 29




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16026.D
Inj. Date and Time: 16-DEC-2012 19:21
Instrument ID: BSMSD.i
Client ID: FM0165I-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

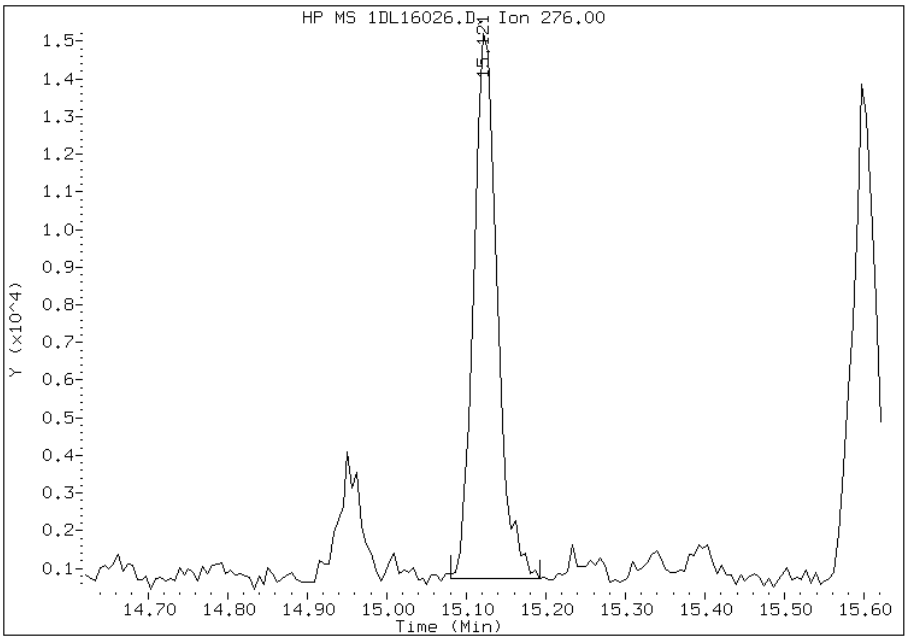
Processing Integration Results

RT: 15.12

Response: 29783

Amount: 0

Conc: 29



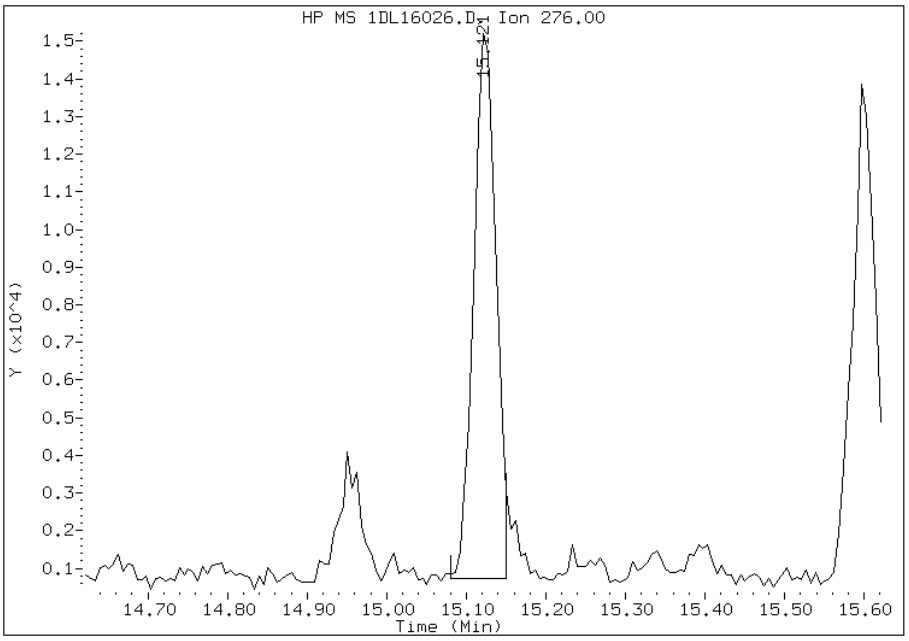

Manual Integration Results

RT: 15.12

Response: 28205

Amount: 0

Conc: 28




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165J-CS | Lab Sample ID: 680-85534-27

Matrix: Solid | Lab File ID: 1DL16027.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:34

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.04(g) | Date Analyzed: 12/16/2012 19:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 25 |
| 208-96-8 | Acenaphthylene | 51 | U | 51 | 6.3 |
| 120-12-7 | Anthracene | 18 | | 11 | 5.3 |
| 56-55-3 | Benzo[a]anthracene | 73 | | 10 | 4.9 |
| 50-32-8 | Benzo[a]pyrene | 64 | | 13 | 6.6 |
| 205-99-2 | Benzo[b]fluoranthene | 130 | | 15 | 7.7 |
| 191-24-2 | Benzo[g,h,i]perylene | 34 | | 25 | 5.6 |
| 207-08-9 | Benzo[k]fluoranthene | 40 | | 10 | 4.6 |
| 218-01-9 | Chrysene | 120 | | 11 | 5.7 |
| 53-70-3 | Dibenz(a,h)anthracene | 15 | J | 25 | 5.2 |
| 206-44-0 | Fluoranthene | 160 | | 25 | 5.1 |
| 86-73-7 | Fluorene | 25 | U | 25 | 5.2 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 34 | | 25 | 9.0 |
| 90-12-0 | 1-Methylnaphthalene | 62 | | 51 | 5.6 |
| 91-57-6 | 2-Methylnaphthalene | 89 | | 51 | 9.0 |
| 91-20-3 | Naphthalene | 150 | | 51 | 5.6 |
| 85-01-8 | Phenanthrene | 170 | | 10 | 4.9 |
| 129-00-0 | Pyrene | 97 | | 25 | 4.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16027.D
Lab Smp Id: 680-85534-A-27-A  Client Smp ID: FM0165J-CS
Inj Date : 16-DEC-2012 19:44
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-27-A
Misc Info : 680-85534-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.040 | Weight Extracted |
| M | 21.266 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.265 | 6.265 | (1.000) | 4275725 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.939 | 7.934 | (1.000) | 2491069 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.197 | 9.191 | (1.000) | 4001910 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.502 | 9.503 | (1.033) | 360417 | 5.70995 | 480 |
| * 17 Chrysene-d12 | 240 | 11.565 | 11.553 | (1.000) | 3974600 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.486 | 13.463 | (1.000) | 3665568 | 40.0000 | |
| 2 Naphthalene | 128 | 6.288 | 6.283 | (1.004) | 198219 | 1.78539 | 150 |
| 3 2-Methylnaphthalene | 142 | 6.982 | 6.982 | (1.114) | 75492 | 1.05315 | 89 |
| 4 1-Methylnaphthalene | 142 | 7.076 | 7.076 | (1.129) | 49717 | 0.73158 | 62 |
| 10 Phenanthrene | 178 | 9.214 | 9.209 | (1.002) | 228415 | 1.99477 | 170 |
| 11 Anthracene | 178 | 9.250 | 9.250 | (1.006) | 24738 | 0.21549 | 18 |
| 12 Carbazole | 167 | 9.385 | 9.379 | (1.020) | 24596 | 0.24201 | 20 |
| 14 Fluoranthene | 202 | 10.196 | 10.190 | (1.109) | 223064 | 1.92749 | 160 |
| 15 Pyrene | 202 | 10.384 | 10.378 | (0.898) | 145573 | 1.14839 | 97 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 16 Benzo(a)anthracene | 228 | 11.547 | 11.530 | (0.998) | 92839 | 0.86550 | 73 |
| 18 Chrysene | 228 | 11.588 | 11.583 | (1.002) | 155241 | 1.37867 | 120 |
| 19 Benzo(b)fluoranthene | 252 | 12.904 | 12.893 | (0.957) | 139837 | 1.55428 | 130 |
| 20 Benzo(k)fluoranthene | 252 | 12.939 | 12.940 | (0.959) | 47167 | 0.47317 | 40 |
| 21 Benzo(a)pyrene | 252 | 13.374 | 13.363 | (0.992) | 67759 | 0.75481 | 64 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.119 | 15.114 | (1.121) | 35856 | 0.40497 | 34(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.160 | 15.149 | (1.124) | 15845 | 0.18232 | 15(M) |
| 25 Benzo(g,h,i)perylene | 276 | 15.595 | 15.590 | (1.156) | 36695 | 0.40258 | 34(M) |

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DL16027.D

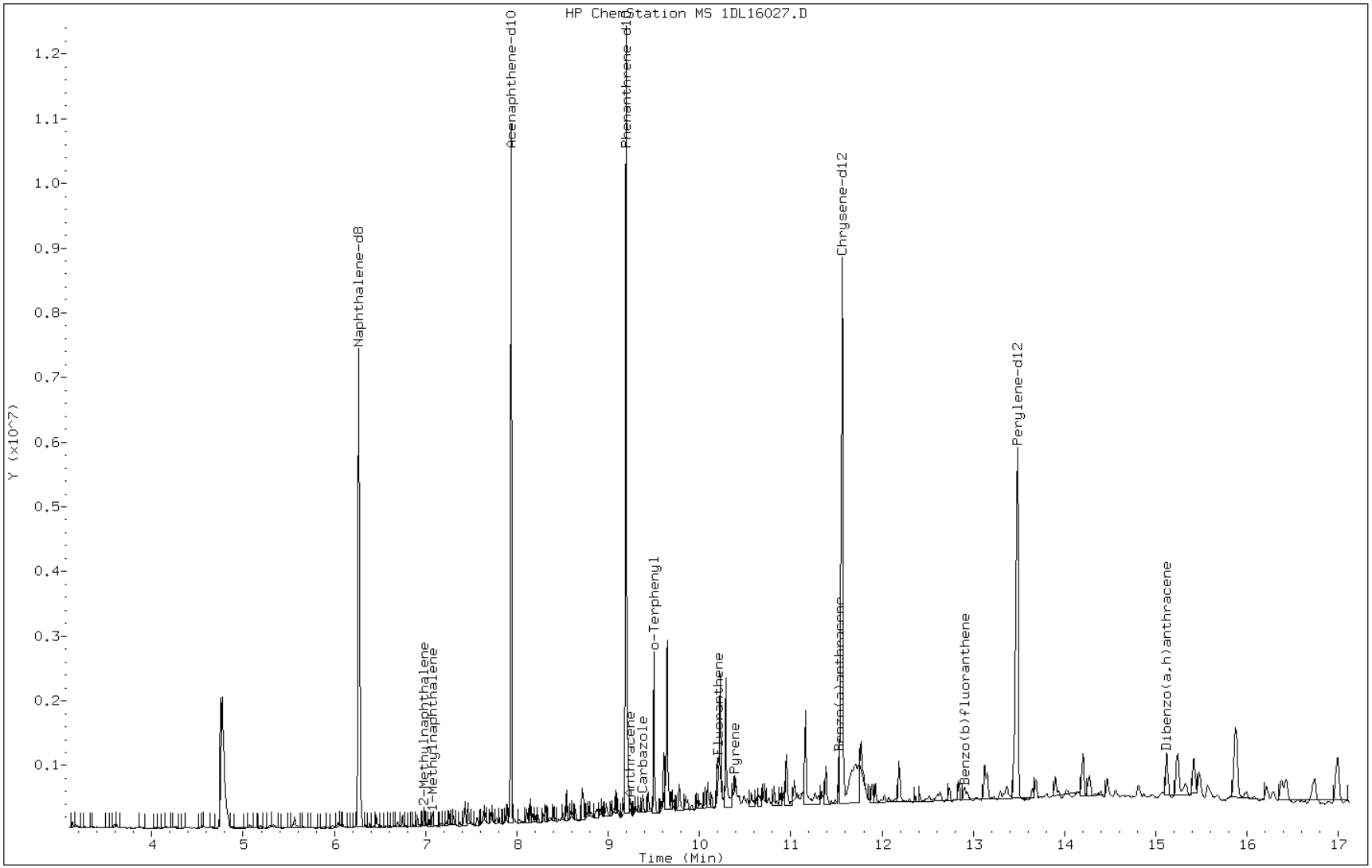
Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A

Operator: SCC



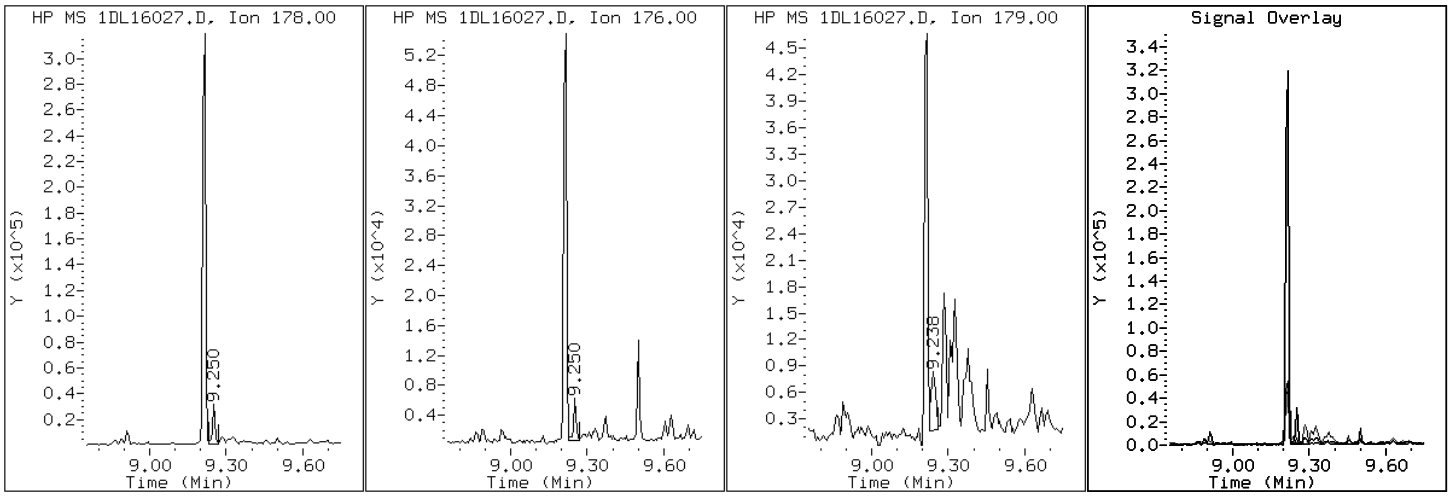
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

11 Anthracene



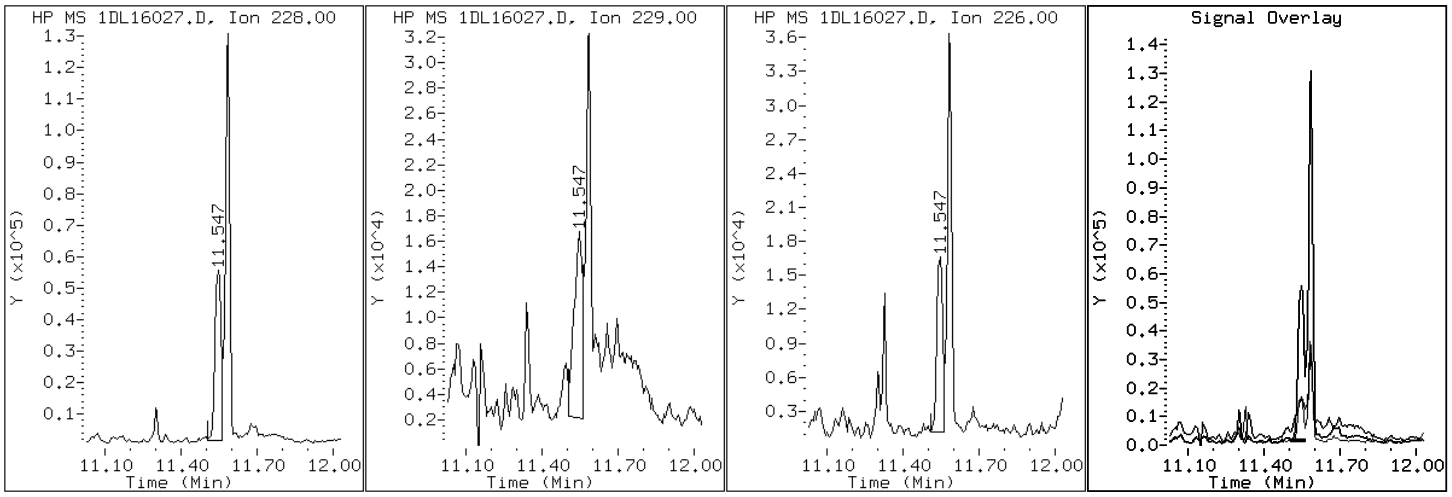
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

16 Benzo(a)anthracene



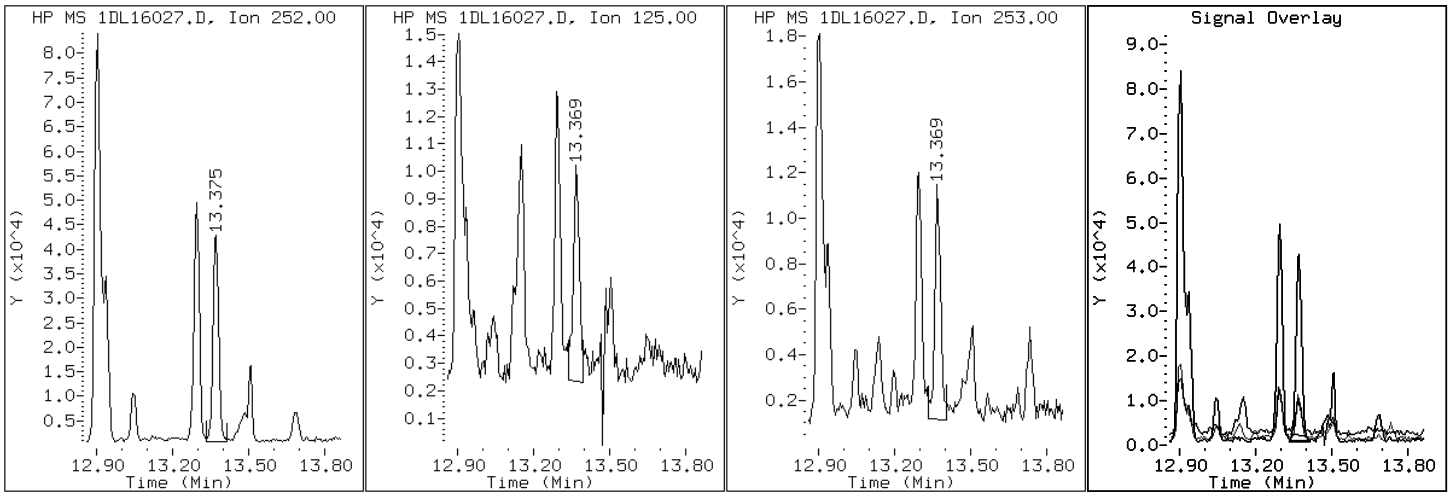
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A  Operator: SCC

21 Benzo(a)pyrene



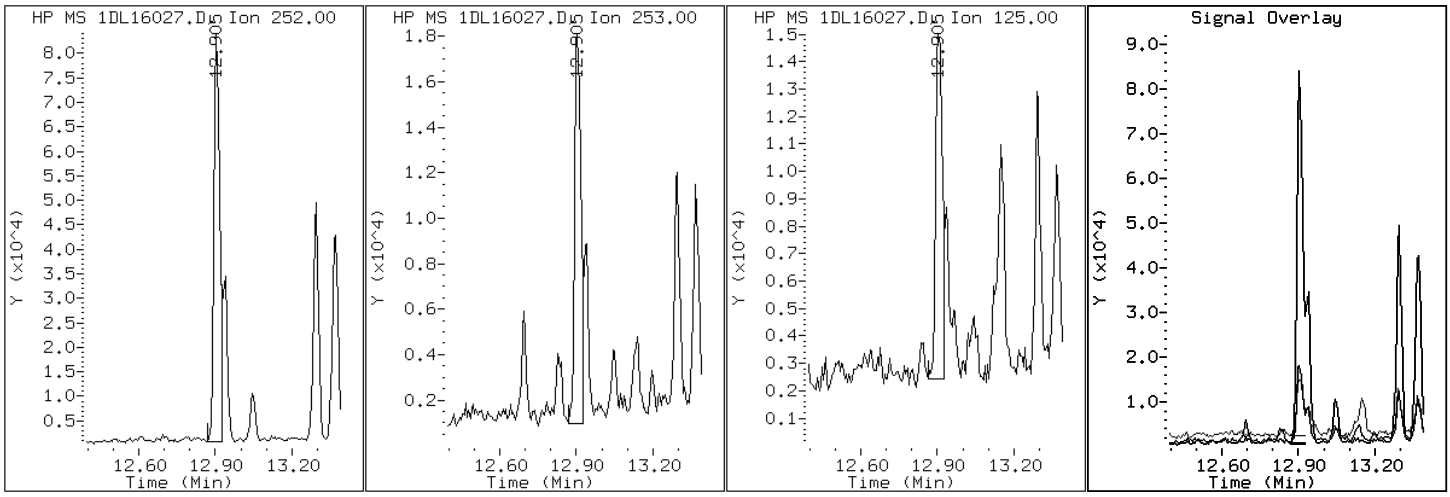
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

19 Benzo(b)fluoranthene



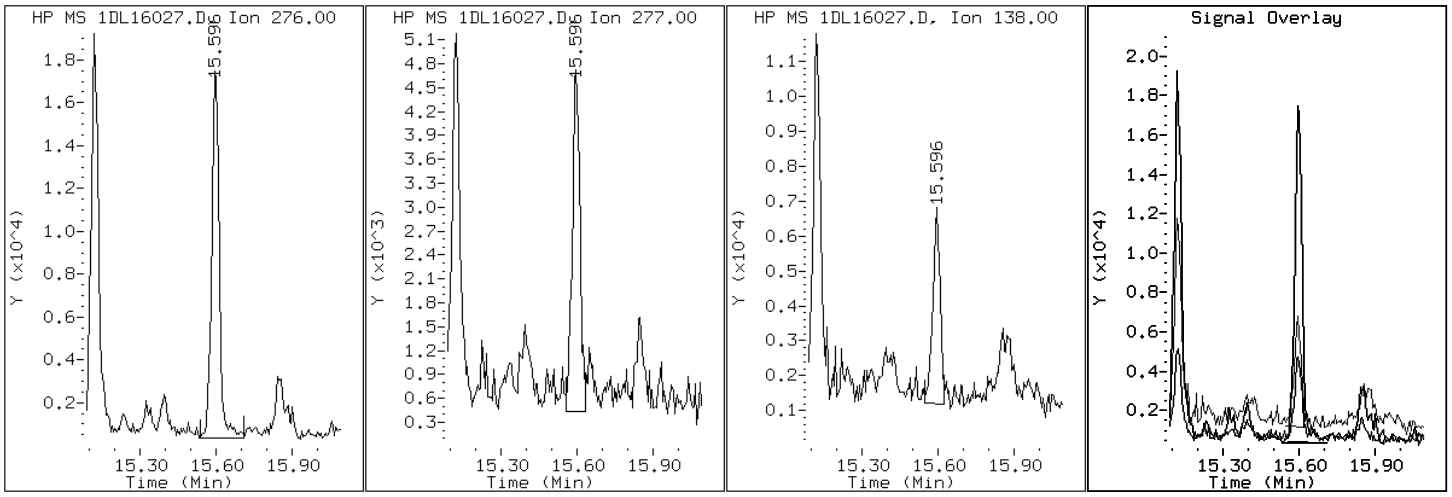
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

25 Benzo(g,h,i)perylene



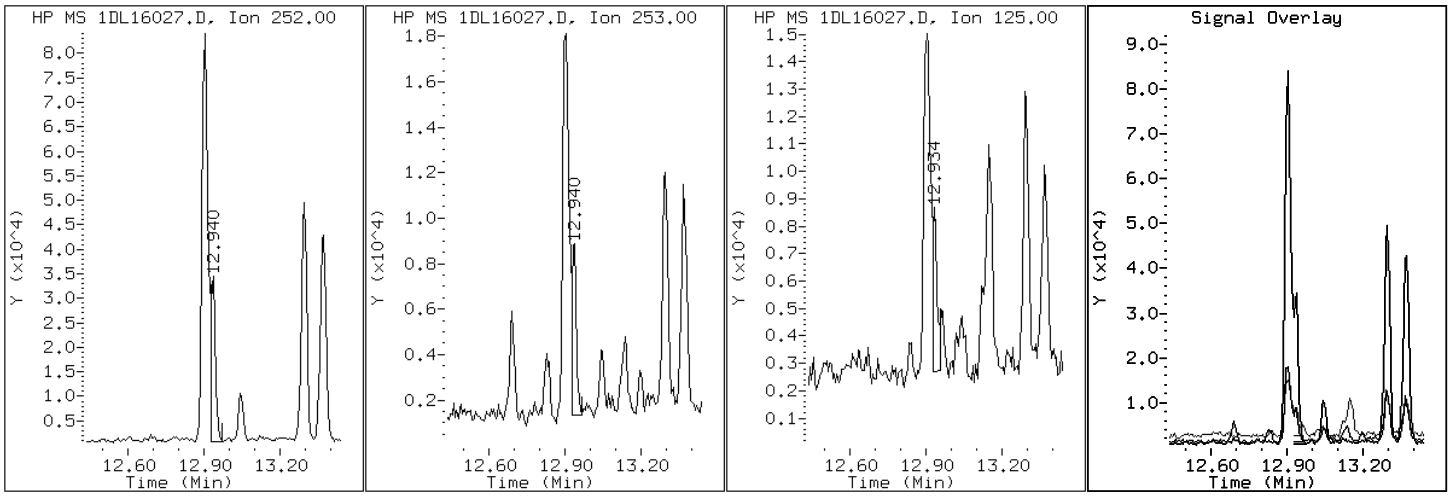
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

20 Benzo(k)fluoranthene



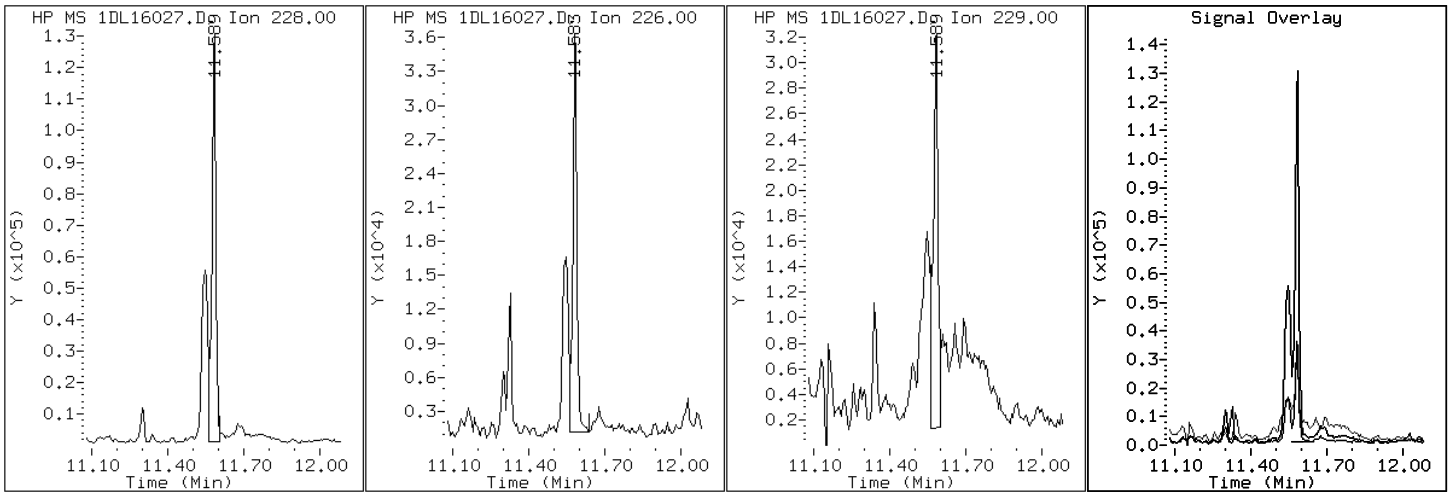
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

18 Chrysene



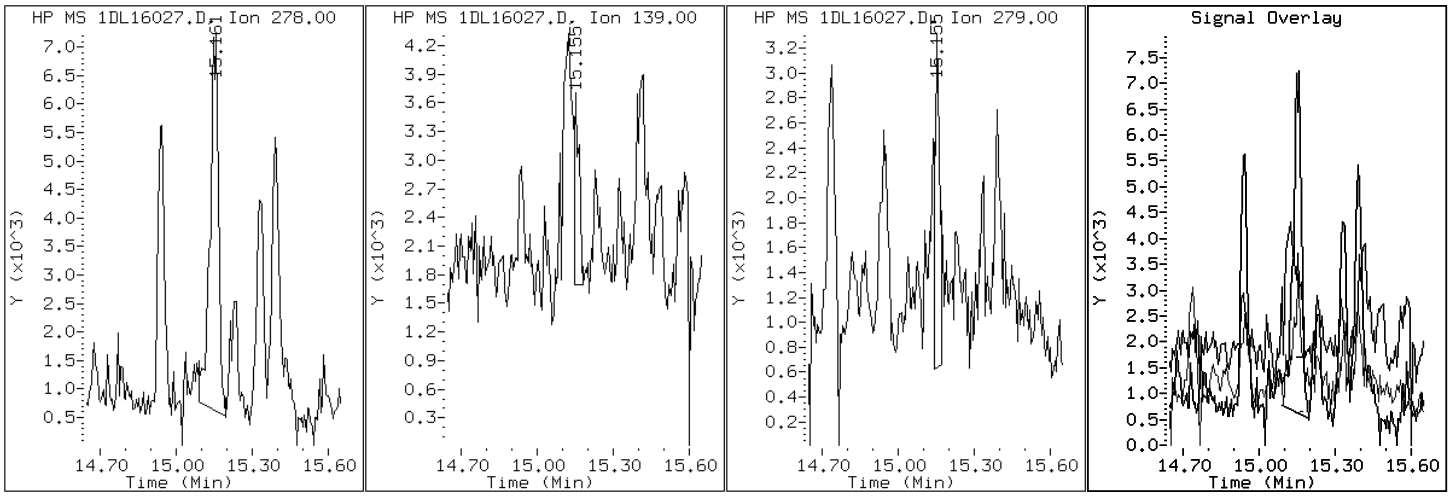
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

24 Dibenzo(a,h)anthracene



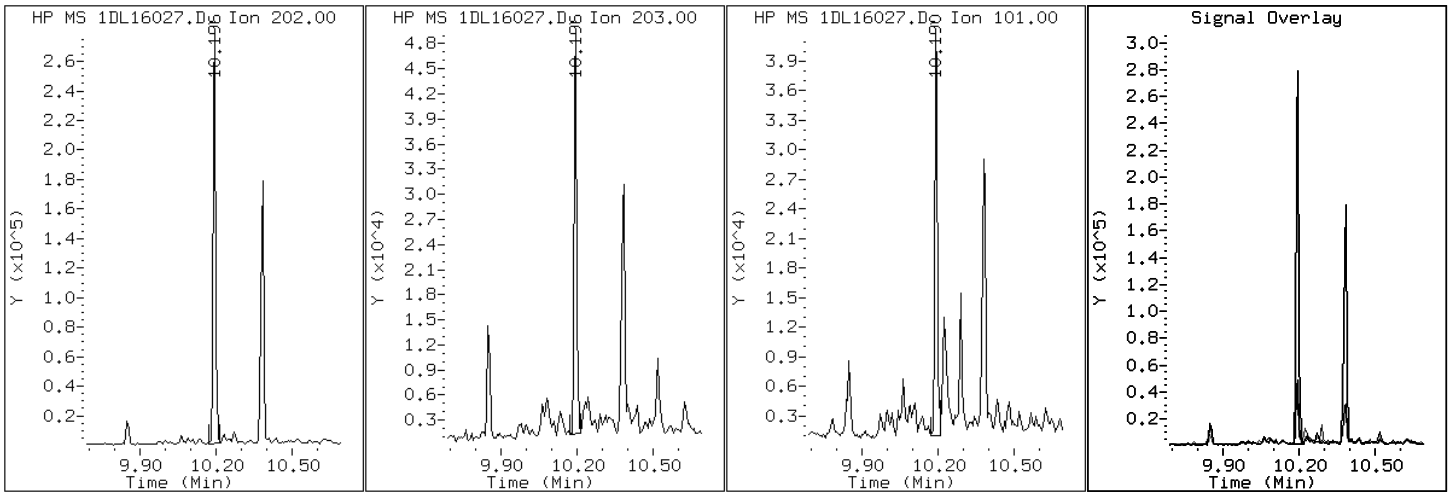
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

14 Fluoranthene



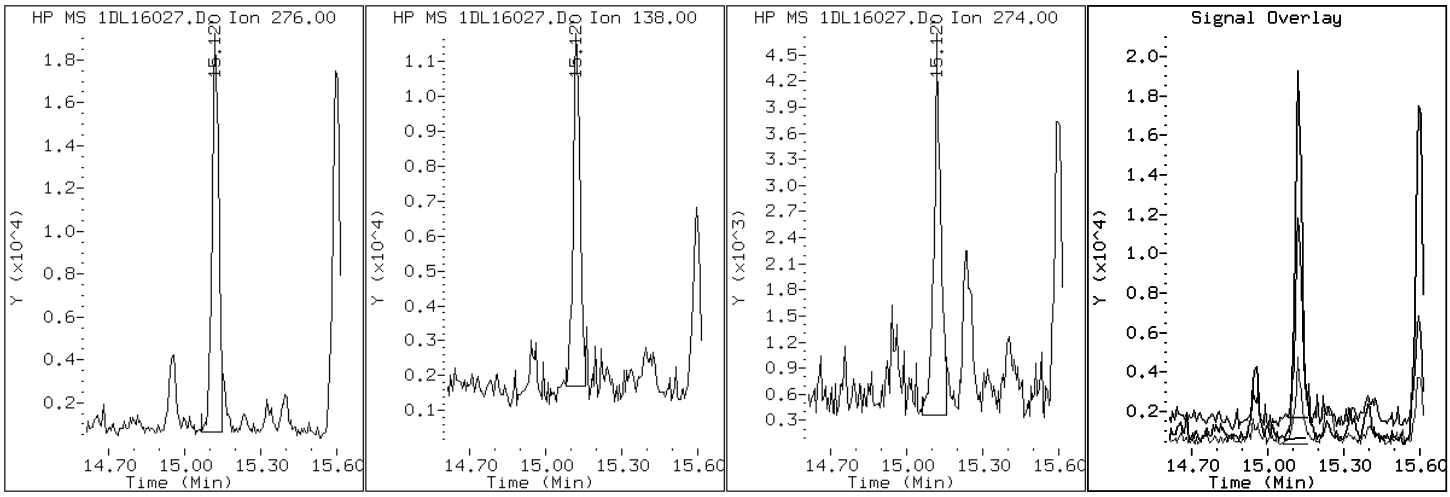
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



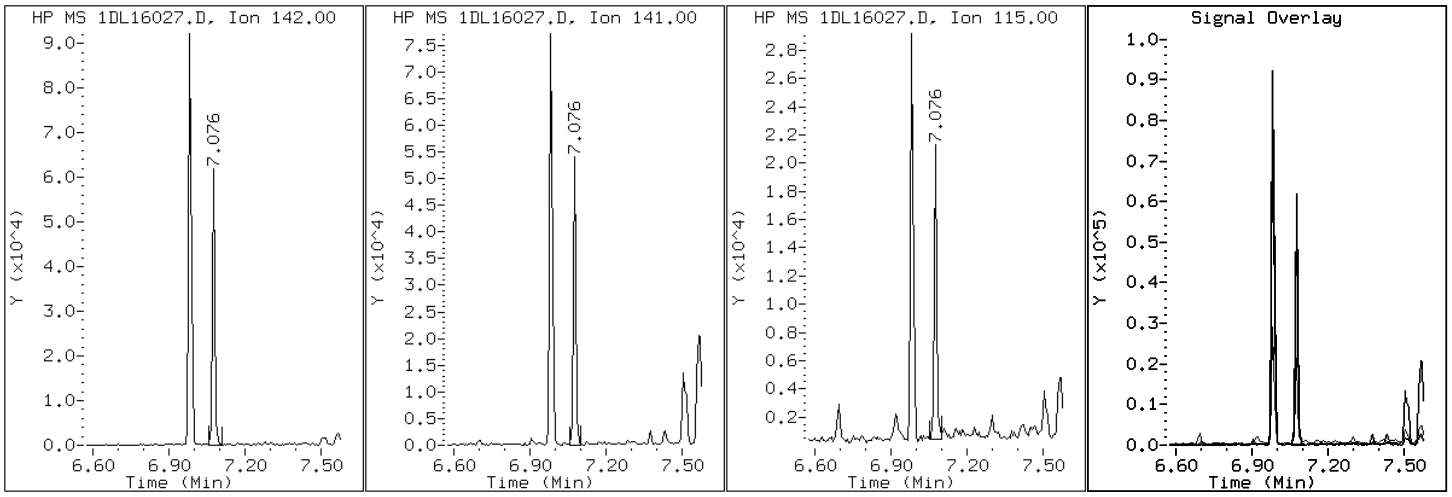
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

4 1-Methylnaphthalene



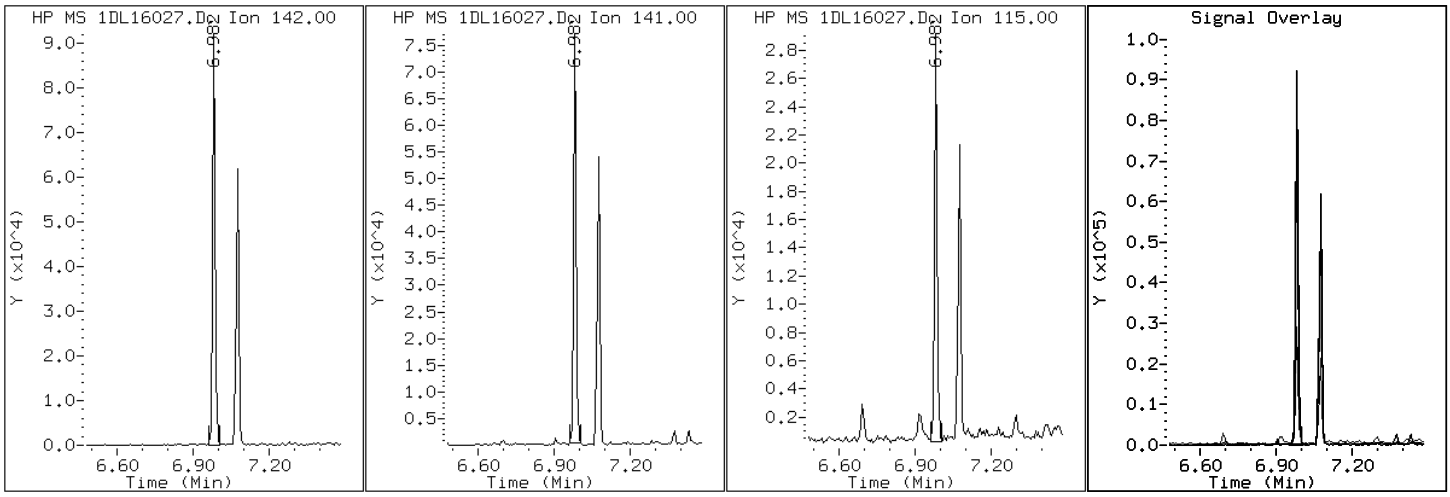
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

3 2-Methylnaphthalene



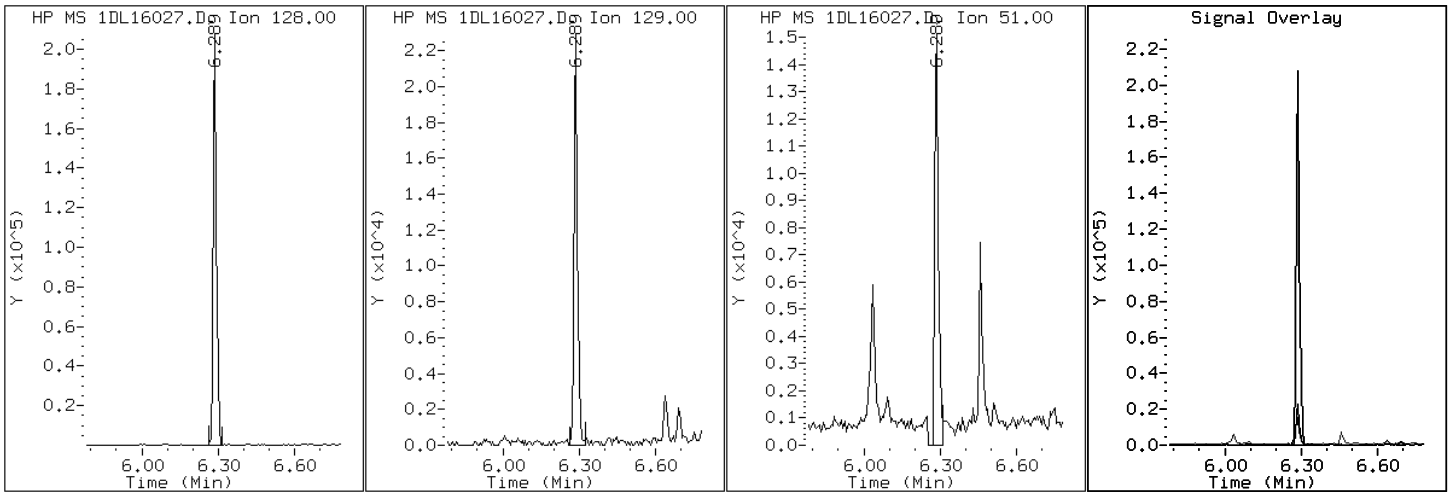
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

2 Naphthalene



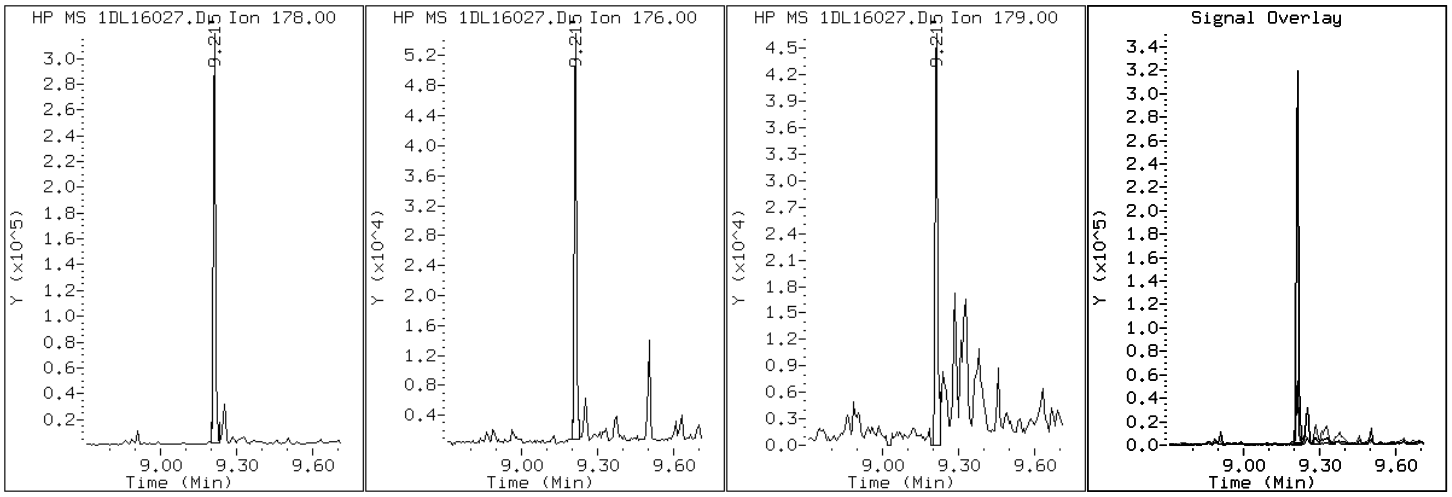
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

10 Phenanthrene



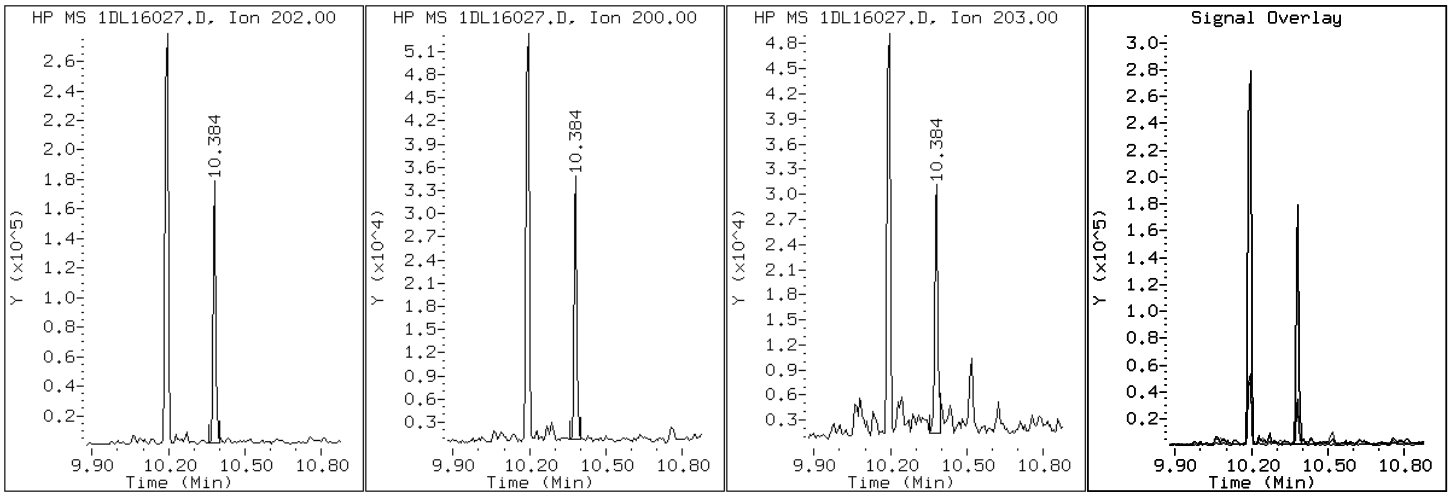
Data File: 1DL16027.D

Date: 16-DEC-2012 19:44

Client ID: FM0165J-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-27-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16027.D
Inj. Date and Time: 16-DEC-2012 19:44
Instrument ID: BSMSD.i
Client ID: FM0165J-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

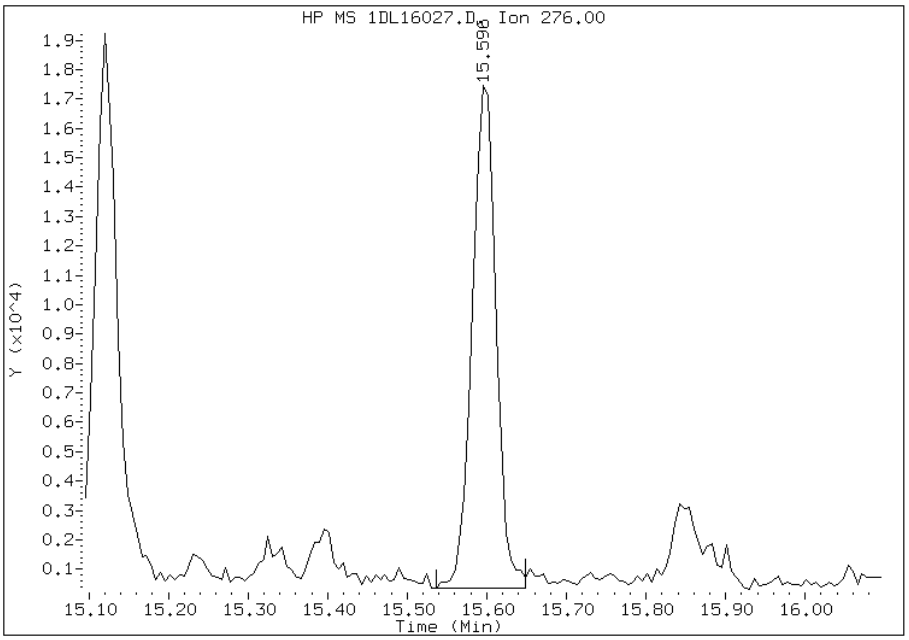
Processing Integration Results

RT: 15.60

Response: 35502

Amount: 0

Conc: 33



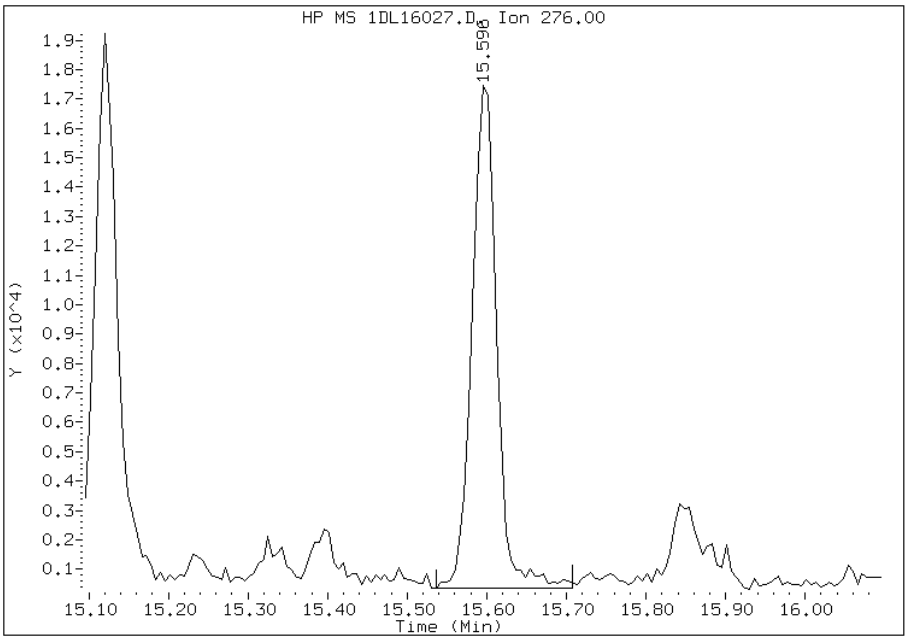

Manual Integration Results

RT: 15.60

Response: 36695

Amount: 0

Conc: 34




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16027.D
Inj. Date and Time: 16-DEC-2012 19:44
Instrument ID: BSMSD.i
Client ID: FM0165J-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/18/2012

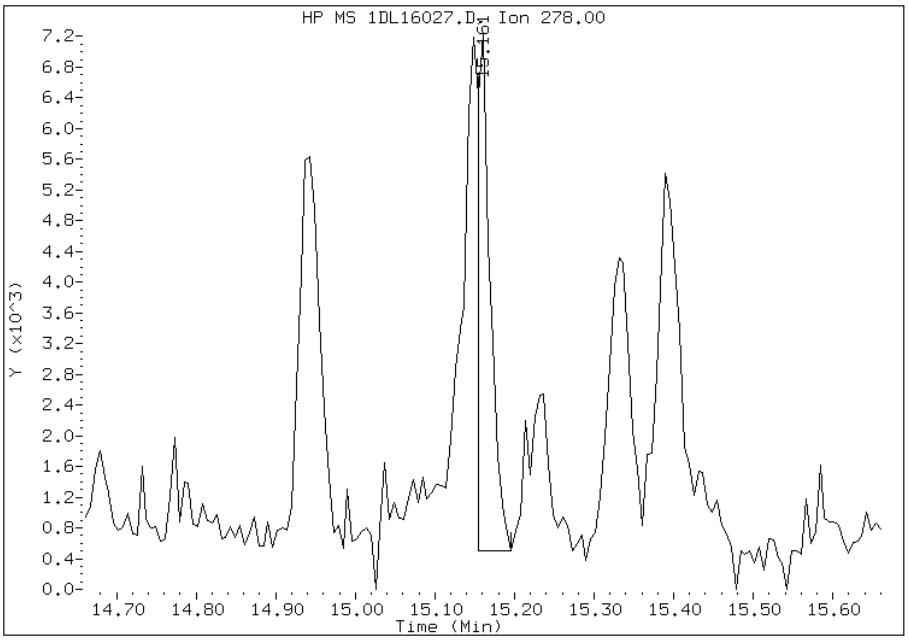
Processing Integration Results

RT: 15.16

Response: 7607

Amount: 0

Conc: 7



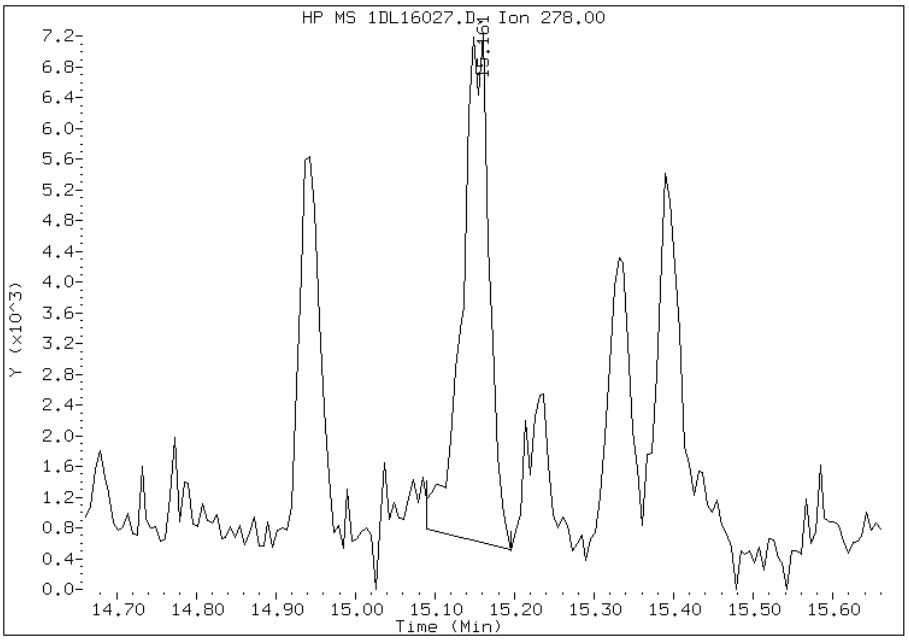

Manual Integration Results

RT: 15.16

Response: 15845

Amount: 0

Conc: 15




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16027.D
Inj. Date and Time: 16-DEC-2012 19:44
Instrument ID: BSMSD.i
Client ID: FM0165J-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

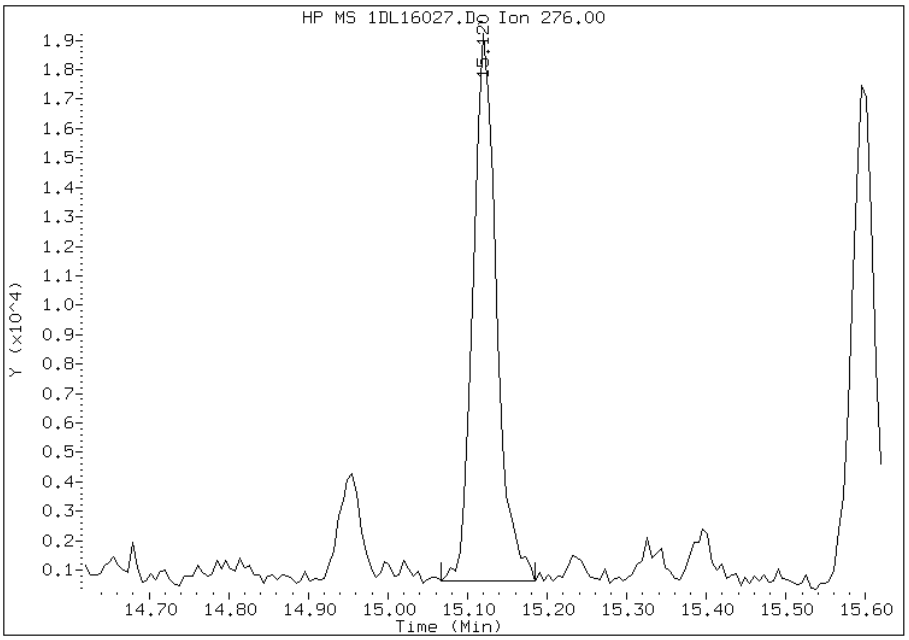
Processing Integration Results

RT: 15.12

Response: 37933

Amount: 0

Conc: 36



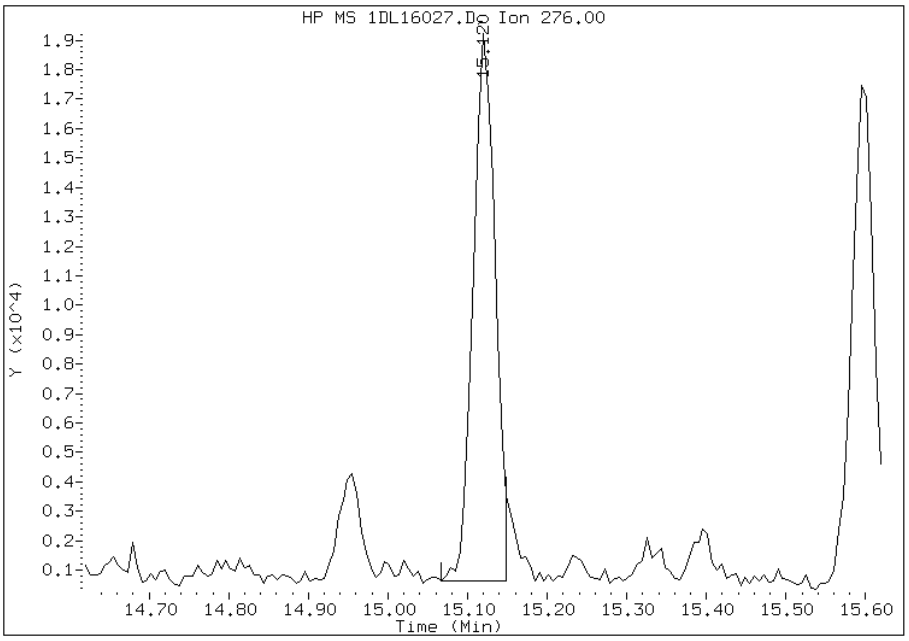

Manual Integration Results

RT: 15.12

Response: 35856

Amount: 0

Conc: 34




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165K-CS | Lab Sample ID: 680-85534-28

Matrix: Solid | Lab File ID: 1DL16028.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:39

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.05(g) | Date Analyzed: 12/16/2012 20:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 25 |
| 208-96-8 | Acenaphthylene | 6.7 | J | 50 | 6.3 |
| 120-12-7 | Anthracene | 14 | | 11 | 5.3 |
| 56-55-3 | Benzo[a]anthracene | 61 | | 10 | 4.9 |
| 50-32-8 | Benzo[a]pyrene | 48 | | 13 | 6.5 |
| 205-99-2 | Benzo[b]fluoranthene | 100 | | 15 | 7.7 |
| 191-24-2 | Benzo[g,h,i]perylene | 25 | | 25 | 5.5 |
| 207-08-9 | Benzo[k]fluoranthene | 28 | | 10 | 4.5 |
| 218-01-9 | Chrysene | 88 | | 11 | 5.7 |
| 53-70-3 | Dibenz(a,h)anthracene | 11 | J | 25 | 5.2 |
| 206-44-0 | Fluoranthene | 130 | | 25 | 5.0 |
| 86-73-7 | Fluorene | 25 | U | 25 | 5.2 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 26 | | 25 | 8.9 |
| 90-12-0 | 1-Methylnaphthalene | 47 | J | 50 | 5.5 |
| 91-57-6 | 2-Methylnaphthalene | 73 | | 50 | 8.9 |
| 91-20-3 | Naphthalene | 140 | | 50 | 5.5 |
| 85-01-8 | Phenanthrene | 120 | | 10 | 4.9 |
| 129-00-0 | Pyrene | 78 | | 25 | 4.6 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 56 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16028.D
Lab Smp Id: 680-85534-A-28-A  Client Smp ID: FM0165K-CS
Inj Date  : 16-DEC-2012 20:06
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-28-A
Misc Info : 680-85534-A-28-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.050 | Weight Extracted |
| M | 20.680 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.266 | 6.265 | (1.000) | 4346435 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.934 | 7.934 | (1.000) | 2575704 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.197 | 9.191 | (1.000) | 4074027 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.503 | 9.503 | (1.033) | 356687 | 5.55083 | 460 |
| * 17 Chrysene-d12 | 240 | 11.565 | 11.553 | (1.000) | 4018028 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.487 | 13.463 | (1.000) | 3724962 | 40.0000 | |
| 2 Naphthalene | 128 | 6.289 | 6.283 | (1.004) | 183573 | 1.62658 | 140 |
| 3 2-Methylnaphthalene | 142 | 6.982 | 6.982 | (1.114) | 63219 | 0.86758 | 73 |
| 4 1-Methylnaphthalene | 142 | 7.076 | 7.076 | (1.129) | 39073 | 0.56560 | 47 |
| 5 Acenaphthylene | 152 | 7.805 | 7.805 | (0.984) | 8954 | 0.07958 | 6.7 |
| 10 Phenanthrene | 178 | 9.215 | 9.209 | (1.002) | 165750 | 1.42188 | 120 |
| 11 Anthracene | 178 | 9.250 | 9.250 | (1.006) | 19459 | 0.16651 | 14 |
| 12 Carbazole | 167 | 9.385 | 9.379 | (1.020) | 16597 | 0.16042 | 13 |
| 14 Fluoranthene | 202 | 10.190 | 10.190 | (1.108) | 175902 | 1.49306 | 120 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Pyrene | 202 | 10.378 | 10.378 | (0.897) | 119126 | 0.92960 | 78 |
| 16 Benzo(a)anthracene | 228 | 11.548 | 11.530 | (0.998) | 78488 | 0.72380 | 61 |
| 18 Chrysene | 228 | 11.583 | 11.583 | (1.002) | 119231 | 1.04743 | 88 |
| 19 Benzo(b)fluoranthene | 252 | 12.905 | 12.893 | (0.957) | 110301 | 1.20644 | 100 |
| 20 Benzo(k)fluoranthene | 252 | 12.934 | 12.940 | (0.959) | 33359 | 0.32931 | 28(H) |
| 21 Benzo(a)pyrene | 252 | 13.369 | 13.363 | (0.991) | 52781 | 0.57859 | 48 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.120 | 15.114 | (1.121) | 28157 | 0.31295 | 26(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.155 | 15.149 | (1.124) | 11535 | 0.13061 | 11 |
| 25 Benzo(g,h,i)perylene | 276 | 15.596 | 15.590 | (1.156) | 28125 | 0.30364 | 25(M) |

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16028.D

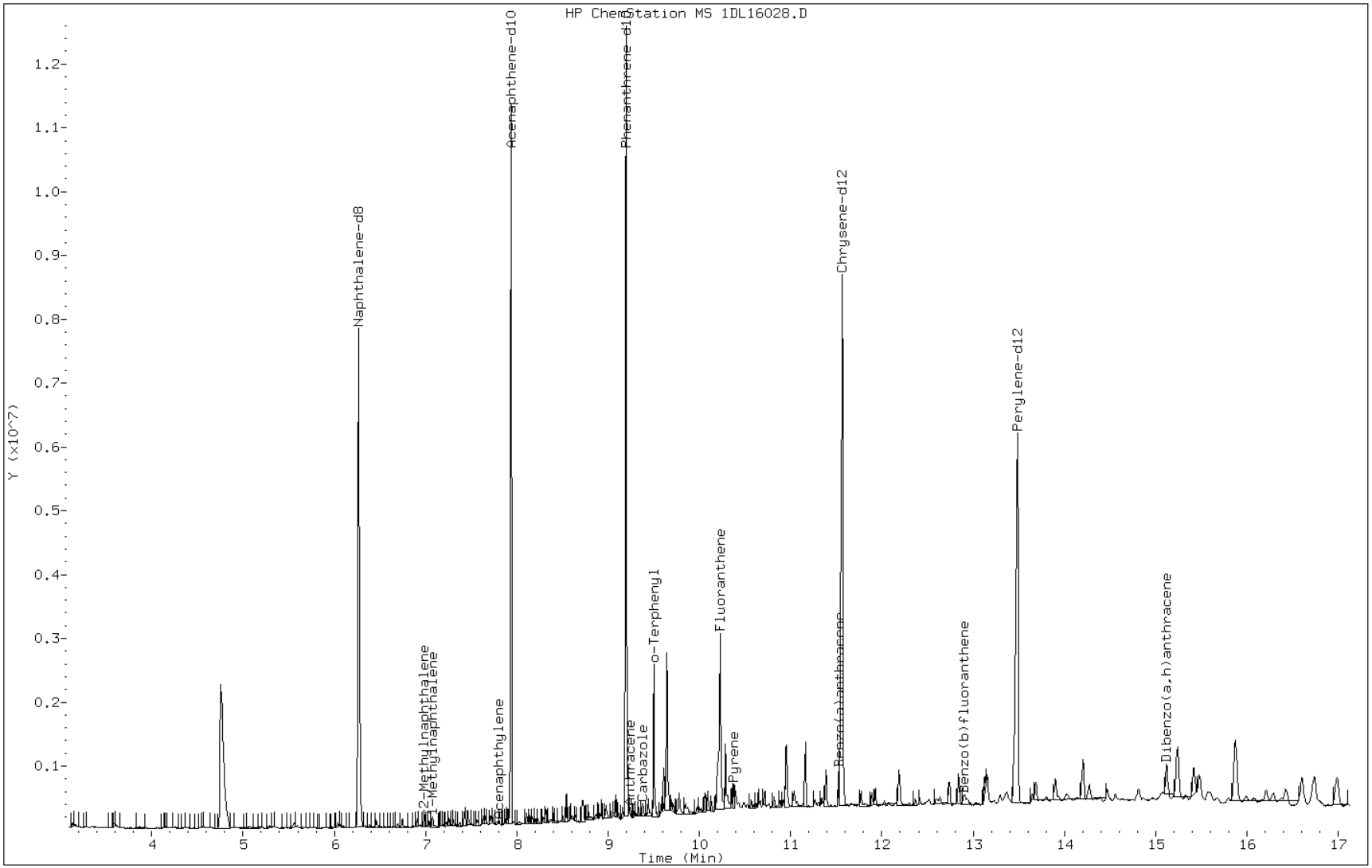
Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A

Operator: SCC



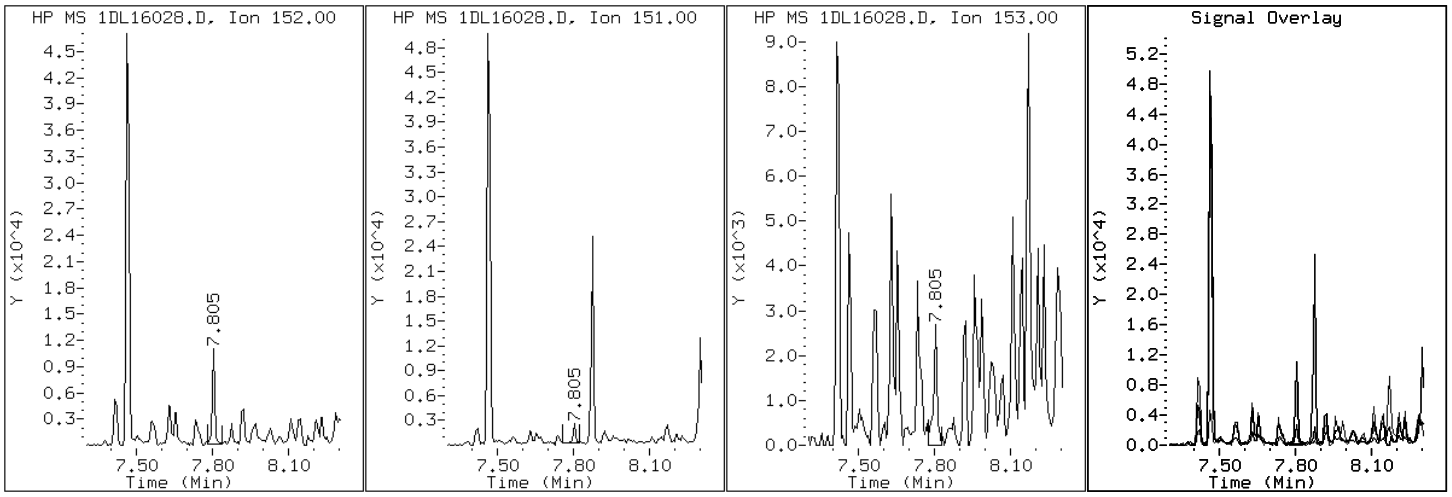
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

5 Acenaphthylene



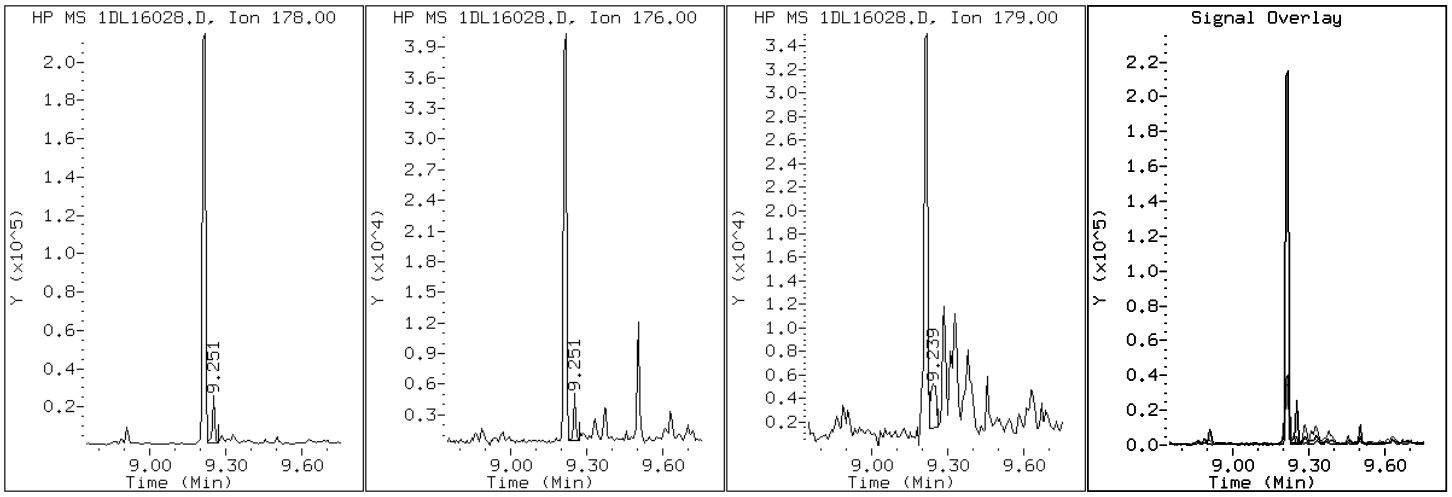
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

11 Anthracene



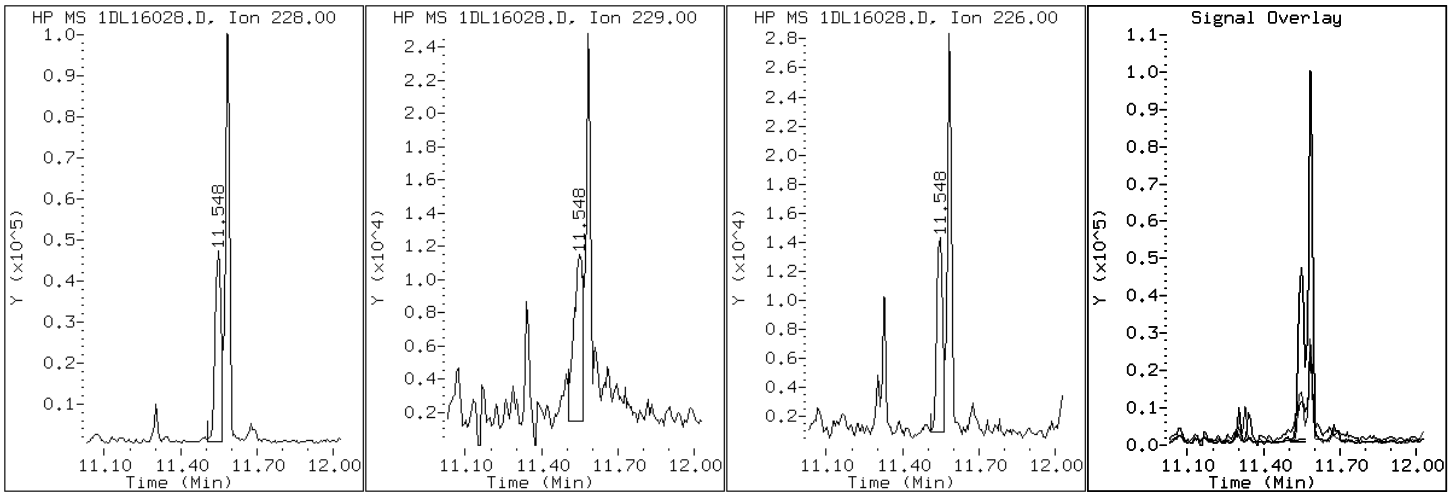
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

16 Benzo(a)anthracene



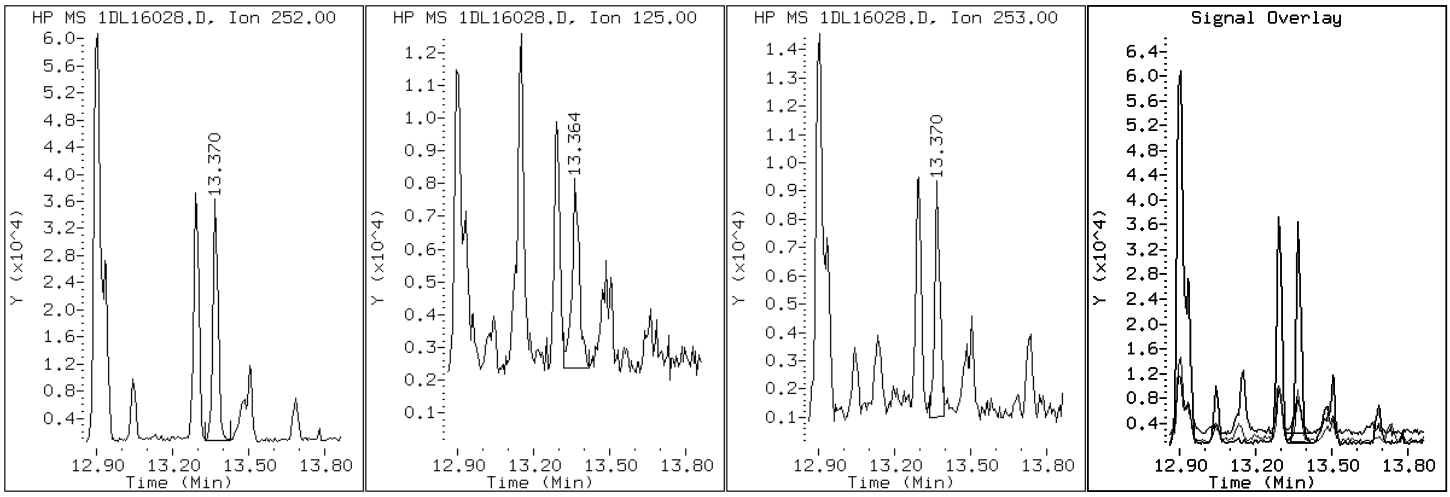
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

21 Benzo(a)pyrene



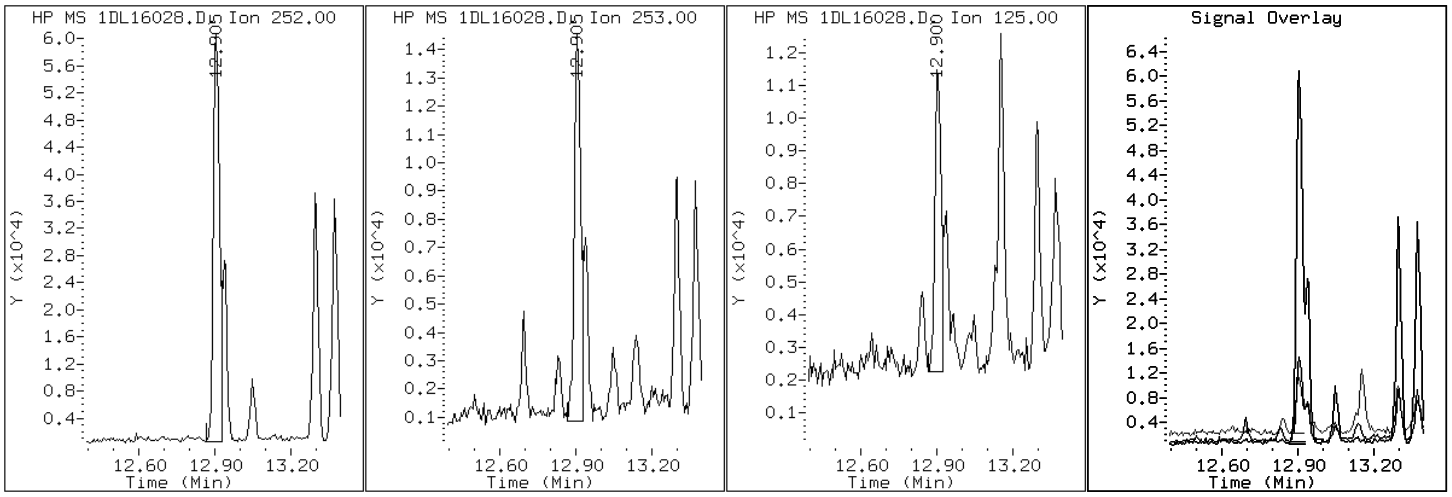
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

19 Benzo(b)fluoranthene



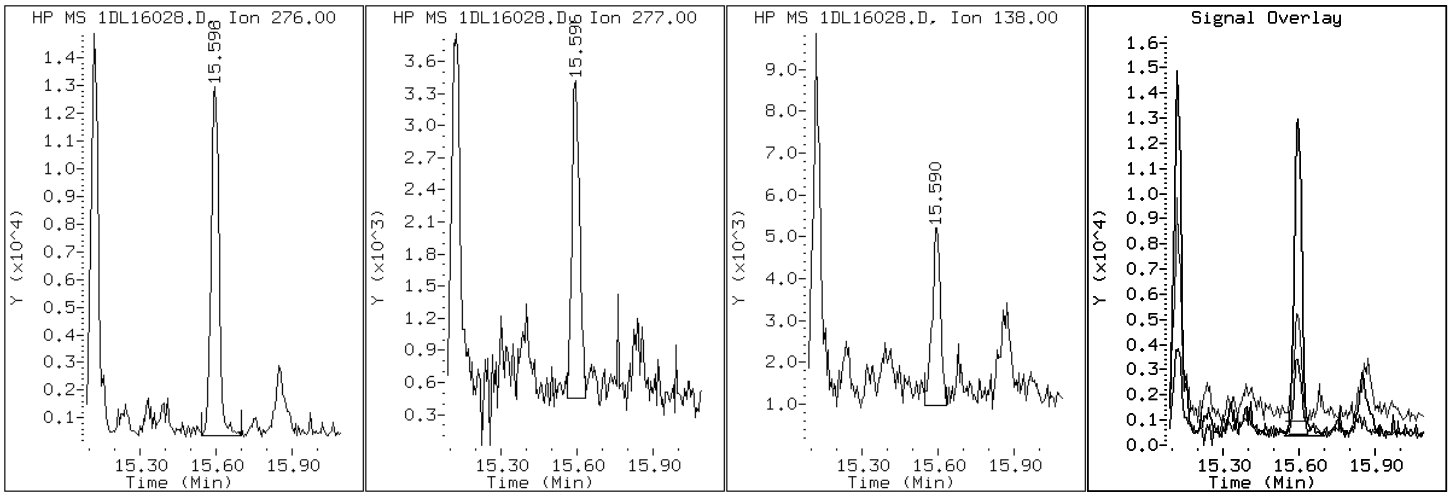
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS | Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A | Operator: SCC

25 Benzo(g,h,i)perylene



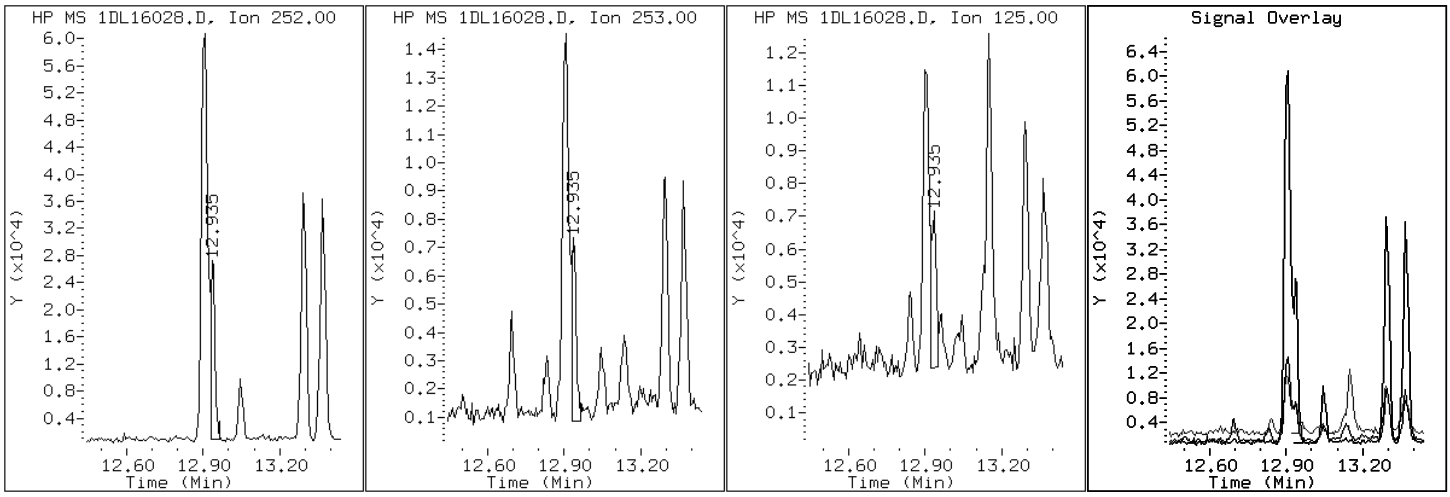
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

20 Benzo(k)fluoranthene



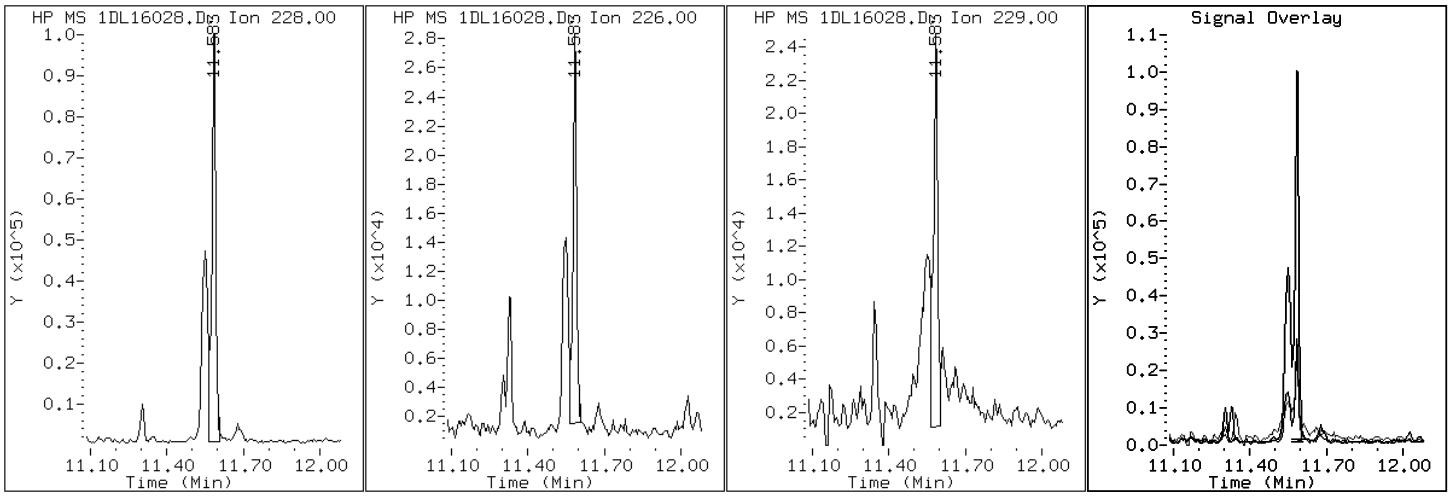
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

18 Chrysene



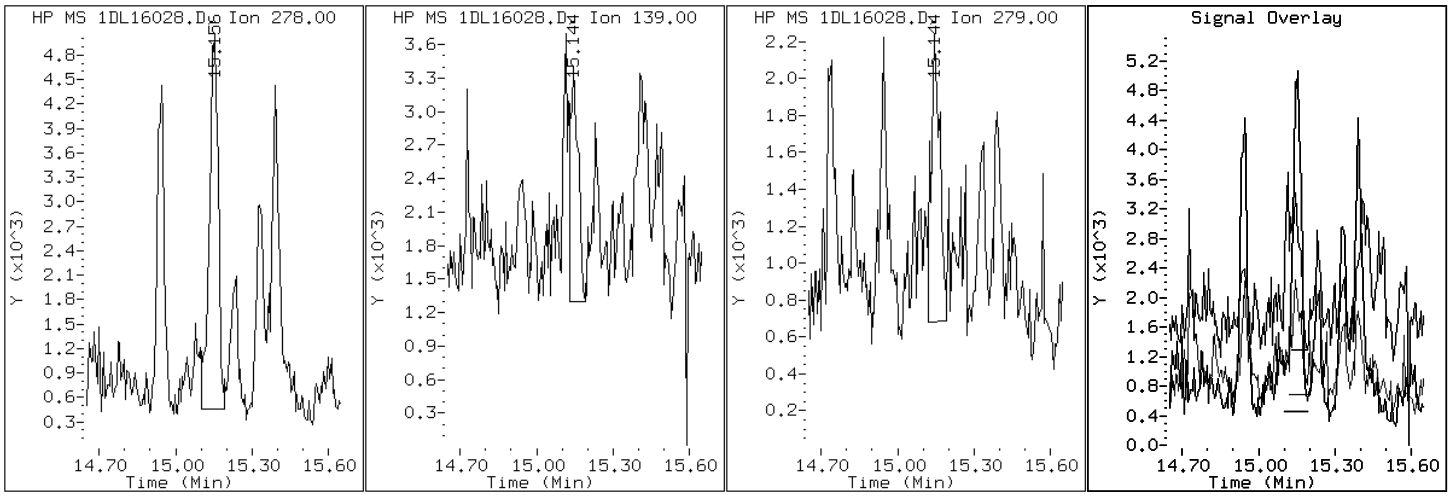
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

24 Dibenzo(a,h)anthracene



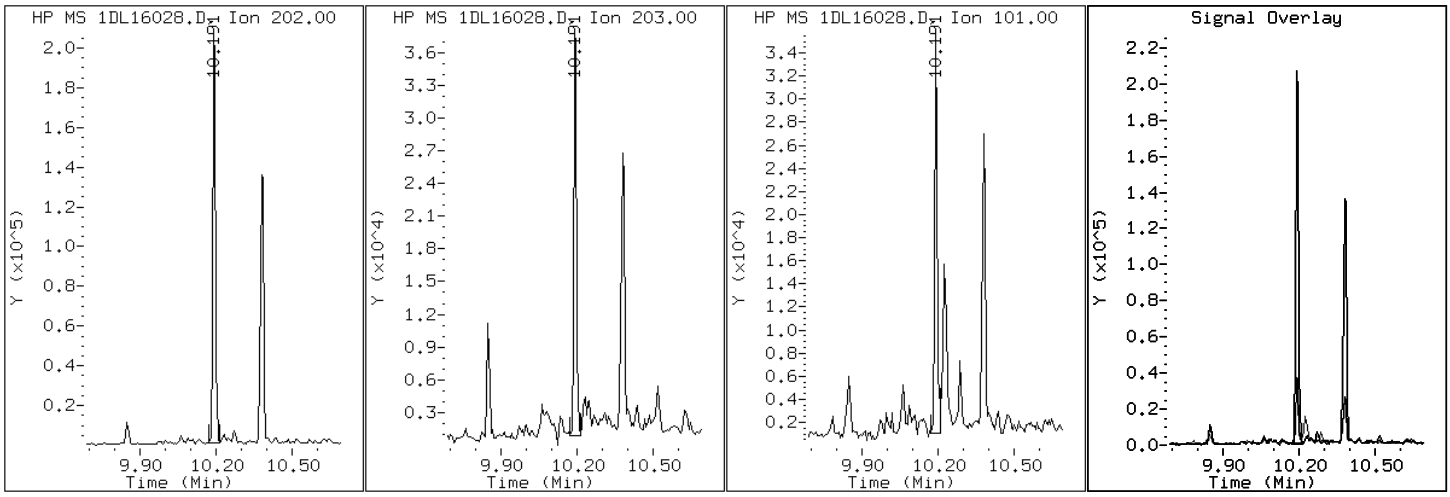
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

14 Fluoranthene



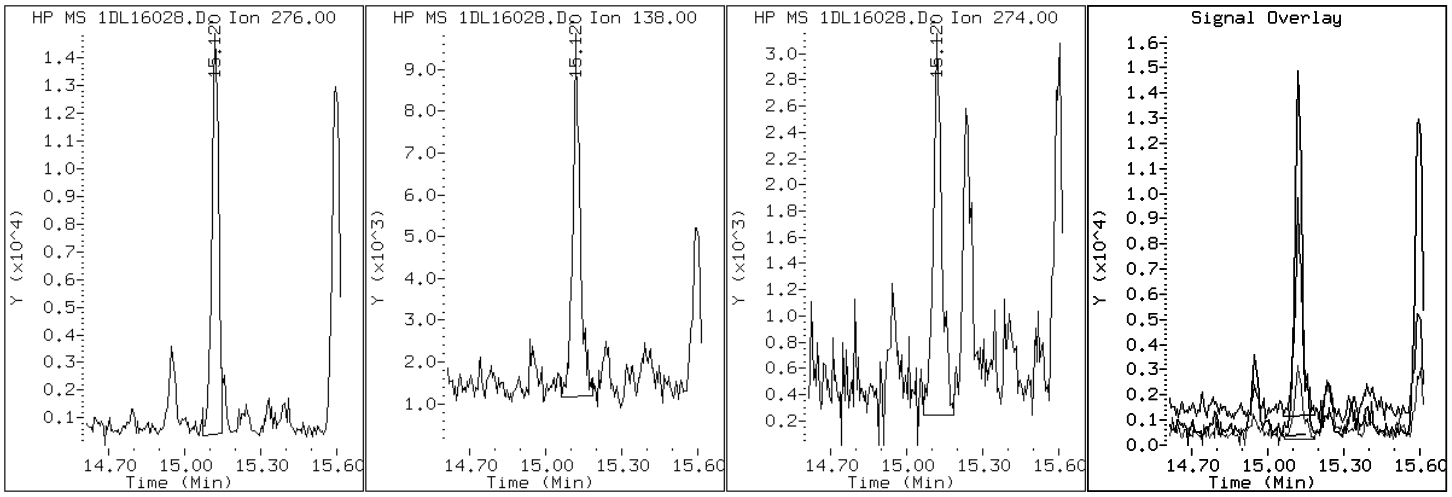
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



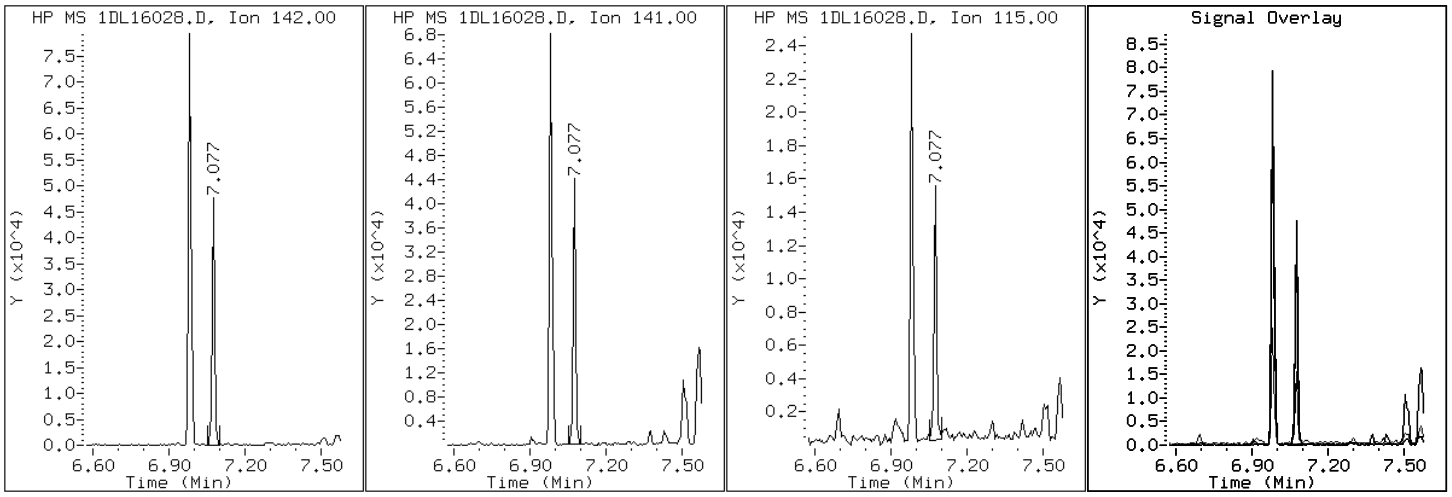
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

4 1-Methylnaphthalene



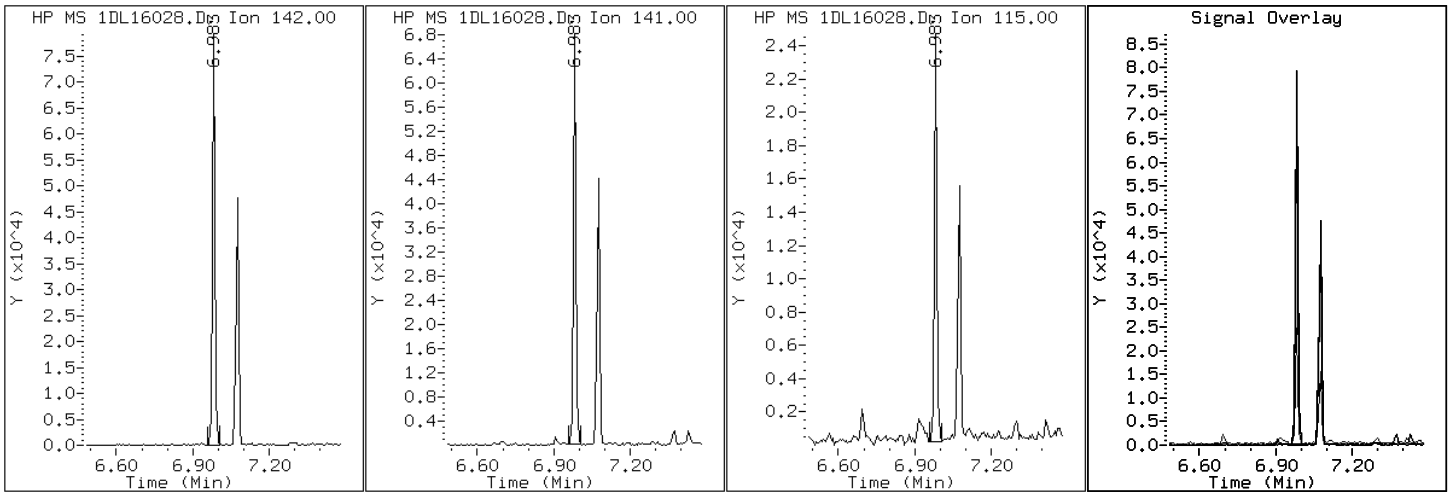
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

3 2-Methylnaphthalene



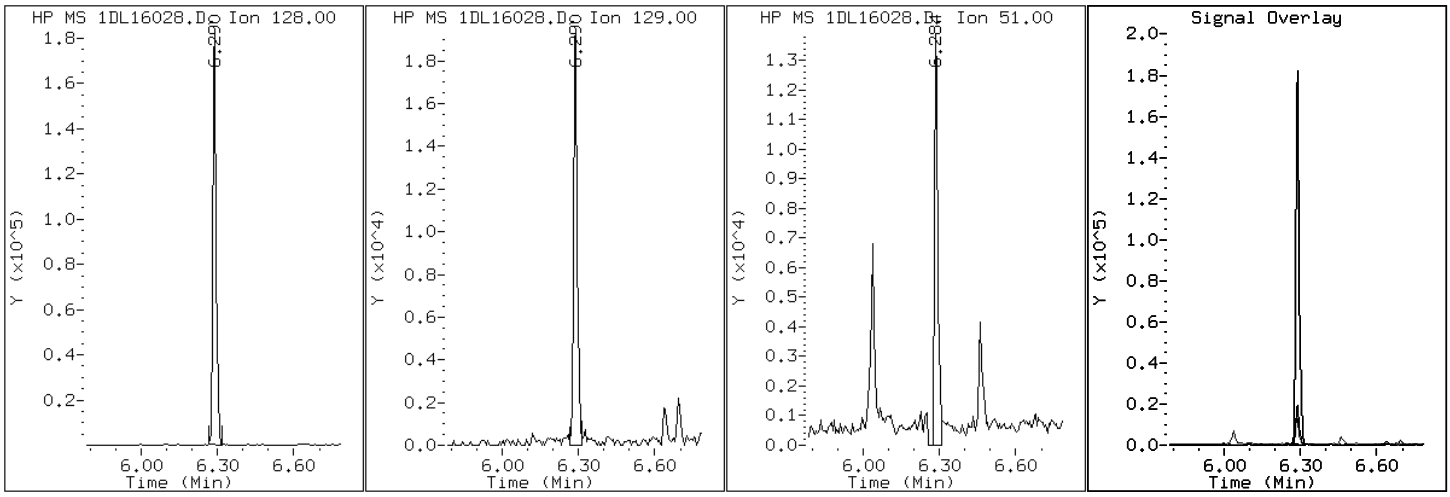
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

2 Naphthalene



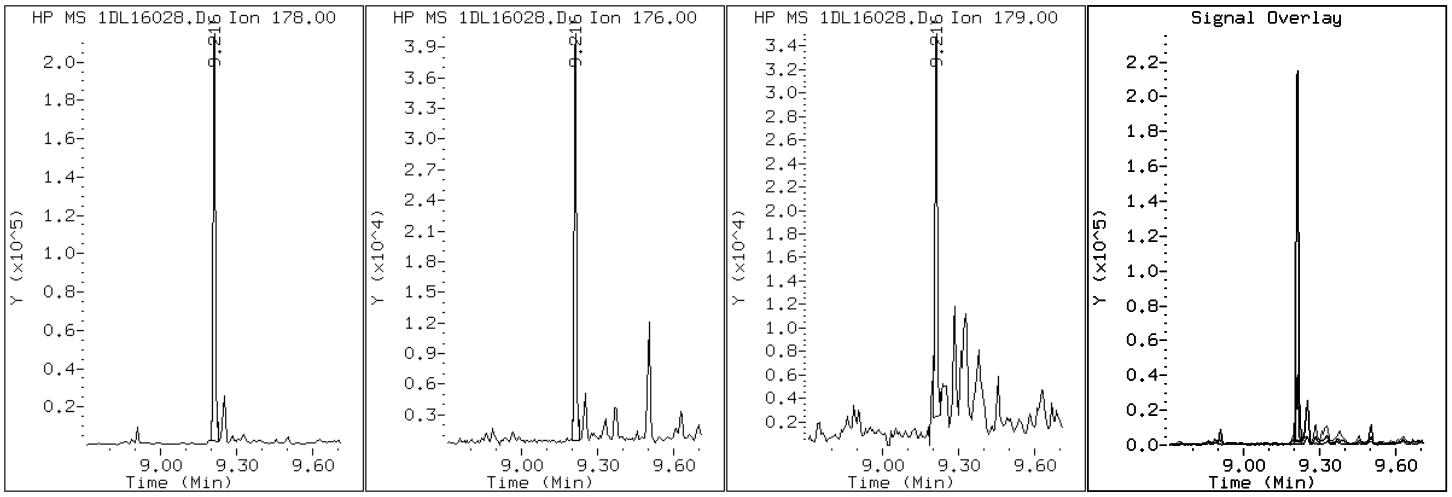
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

10 Phenanthrene



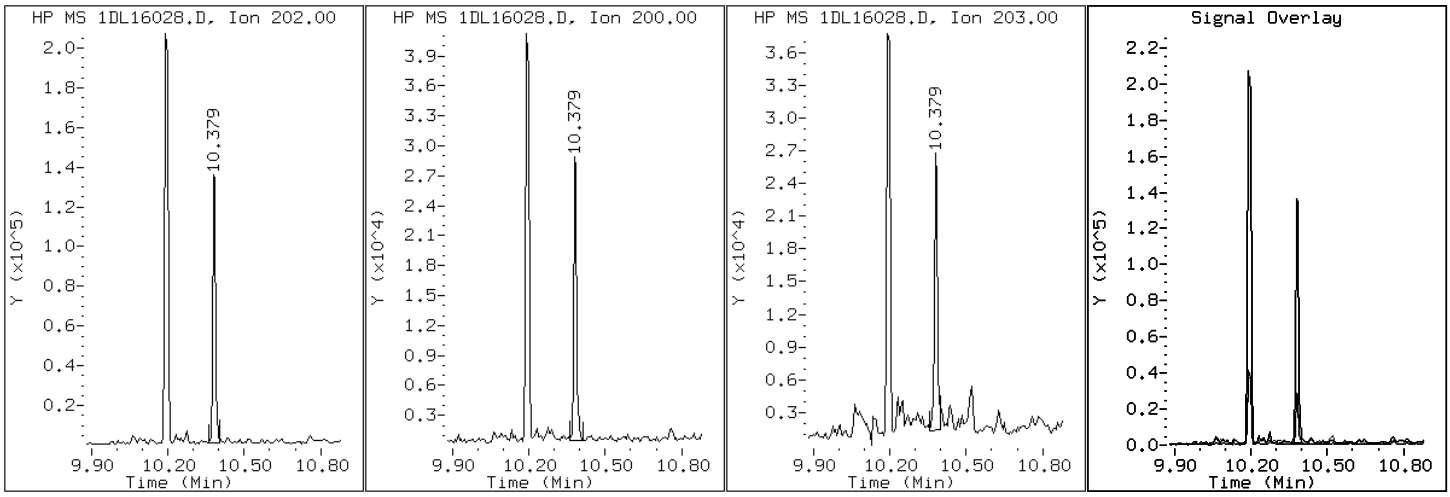
Data File: 1DL16028.D

Date: 16-DEC-2012 20:06

Client ID: FM0165K-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-28-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16028.D
Inj. Date and Time: 16-DEC-2012 20:06
Instrument ID: BSMSD.i
Client ID: FM0165K-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

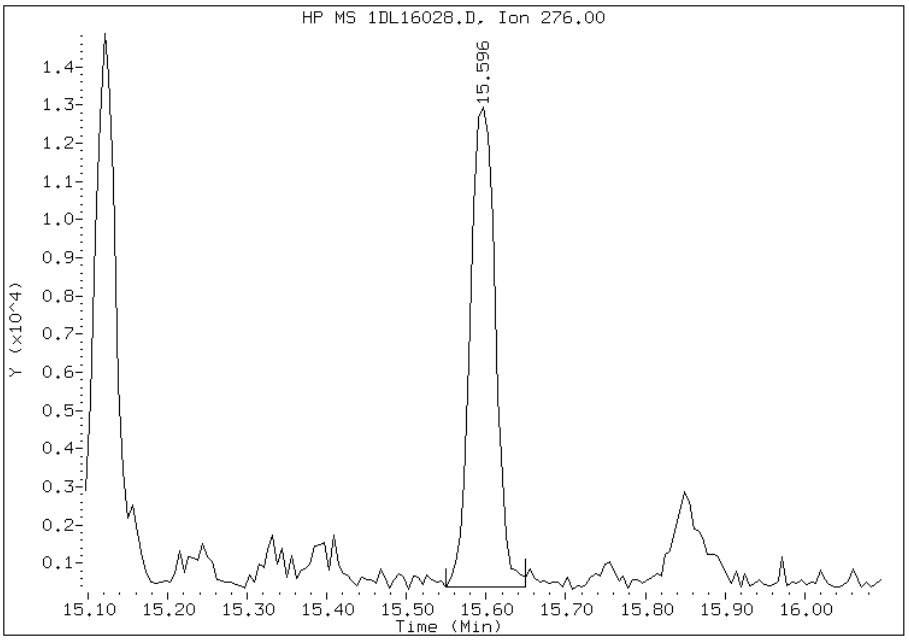
Processing Integration Results

RT: 15.60

Response: 27403

Amount: 0

Conc: 25



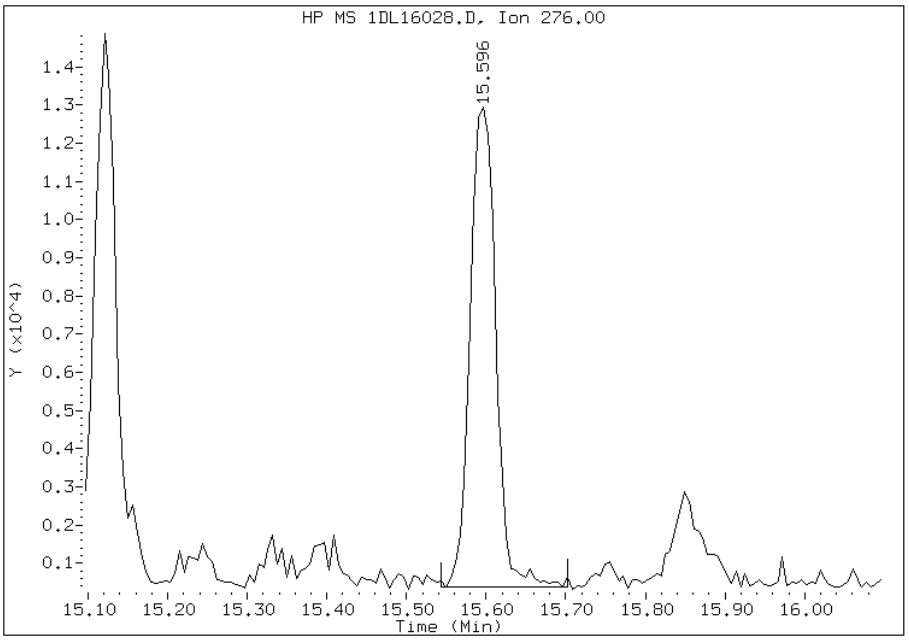

Manual Integration Results

RT: 15.60

Response: 28125

Amount: 0

Conc: 25




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16028.D
Inj. Date and Time: 16-DEC-2012 20:06
Instrument ID: BSMSD.i
Client ID: FM0165K-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

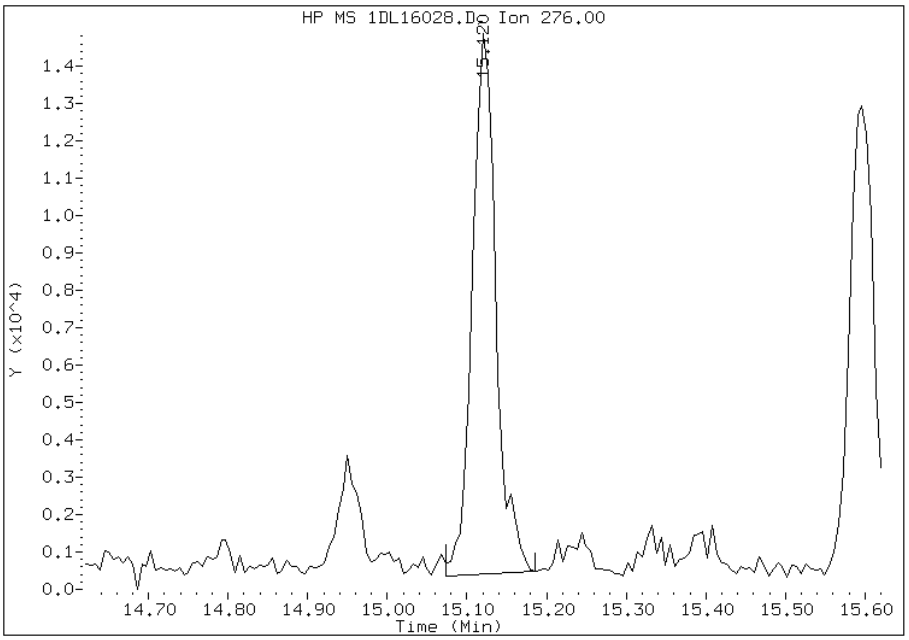
Processing Integration Results

RT: 15.12

Response: 29739

Amount: 0

Conc: 28



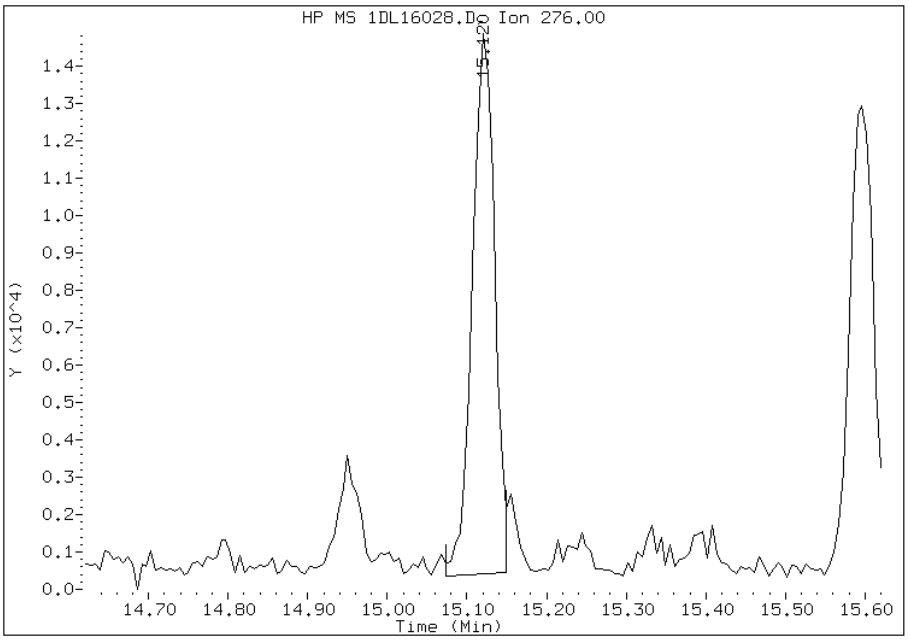

Manual Integration Results

RT: 15.12

Response: 28157

Amount: 0

Conc: 26




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165L-CS | Lab Sample ID: 680-85534-29

Matrix: Solid | Lab File ID: 1DL16029.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:48

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 14.95(g) | Date Analyzed: 12/16/2012 20:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 25 |
| 208-96-8 | Acenaphthylene | 51 | U | 51 | 6.4 |
| 120-12-7 | Anthracene | 16 | | 11 | 5.3 |
| 56-55-3 | Benzo[a]anthracene | 66 | | 10 | 5.0 |
| 50-32-8 | Benzo[a]pyrene | 51 | | 13 | 6.6 |
| 205-99-2 | Benzo[b]fluoranthene | 110 | | 15 | 7.7 |
| 191-24-2 | Benzo[g,h,i]perylene | 31 | | 25 | 5.6 |
| 207-08-9 | Benzo[k]fluoranthene | 35 | | 10 | 4.6 |
| 218-01-9 | Chrysene | 99 | | 11 | 5.7 |
| 53-70-3 | Dibenz(a,h)anthracene | 14 | J | 25 | 5.2 |
| 206-44-0 | Fluoranthene | 140 | | 25 | 5.1 |
| 86-73-7 | Fluorene | 25 | U | 25 | 5.2 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 30 | | 25 | 9.0 |
| 90-12-0 | 1-Methylnaphthalene | 68 | | 51 | 5.6 |
| 91-57-6 | 2-Methylnaphthalene | 100 | | 51 | 9.0 |
| 91-20-3 | Naphthalene | 190 | | 51 | 5.6 |
| 85-01-8 | Phenanthrene | 160 | | 10 | 5.0 |
| 129-00-0 | Pyrene | 83 | | 25 | 4.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 68 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16029.D
Lab Smp Id: 680-85534-A-29-A  Client Smp ID: FM0165L-CS
Inj Date  : 16-DEC-2012 20:29
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-29-A
Misc Info : 680-85534-A-29-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.950 | Weight Extracted |
| M | 21.009 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.268 | 6.265 | (1.000) | 4352082 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.937 | 7.934 | (1.000) | 2566300 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.200 | 9.191 | (1.000) | 4103410 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.505 | 9.503 | (1.033) | 436929 | 6.75088 | 570 |
| * 17 Chrysene-d12 | 240 | 11.568 | 11.553 | (1.000) | 4062406 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.483 | 13.463 | (1.000) | 3746293 | 40.0000 | |
| 2 Naphthalene | 128 | 6.286 | 6.283 | (1.003) | 252529 | 2.23467 | 190 |
| 3 2-Methylnaphthalene | 142 | 6.985 | 6.982 | (1.114) | 86109 | 1.18018 | 100 |
| 4 1-Methylnaphthalene | 142 | 7.079 | 7.076 | (1.129) | 55214 | 0.79822 | 68 |
| 10 Phenanthrene | 178 | 9.212 | 9.209 | (1.001) | 222636 | 1.89620 | 160 |
| 11 Anthracene | 178 | 9.253 | 9.250 | (1.006) | 22316 | 0.18958 | 16 |
| 12 Carbazole | 167 | 9.382 | 9.379 | (1.020) | 27746 | 0.26625 | 22 |
| 14 Fluoranthene | 202 | 10.193 | 10.190 | (1.108) | 199788 | 1.68366 | 140 |
| 15 Pyrene | 202 | 10.381 | 10.378 | (0.897) | 127480 | 0.98392 | 83 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 16 Benzo(a)anthracene | 228 | 11.550 | 11.530 | (0.998) | 86083 | 0.78517 | 66 |
| 18 Chrysene | 228 | 11.585 | 11.583 | (1.002) | 133944 | 1.16382 | 98 |
| 19 Benzo(b)fluoranthene | 252 | 12.901 | 12.893 | (0.957) | 119109 | 1.29537 | 110 |
| 20 Benzo(k)fluoranthene | 252 | 12.937 | 12.940 | (0.959) | 42098 | 0.41322 | 35(H) |
| 21 Benzo(a)pyrene | 252 | 13.371 | 13.363 | (0.992) | 55236 | 0.60205 | 51 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.116 | 15.114 | (1.121) | 31983 | 0.35345 | 30(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.152 | 15.149 | (1.124) | 14580 | 0.16415 | 14 |
| 25 Benzo(g,h,i)perylene | 276 | 15.598 | 15.590 | (1.157) | 34067 | 0.36569 | 31(M) |

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16029.D

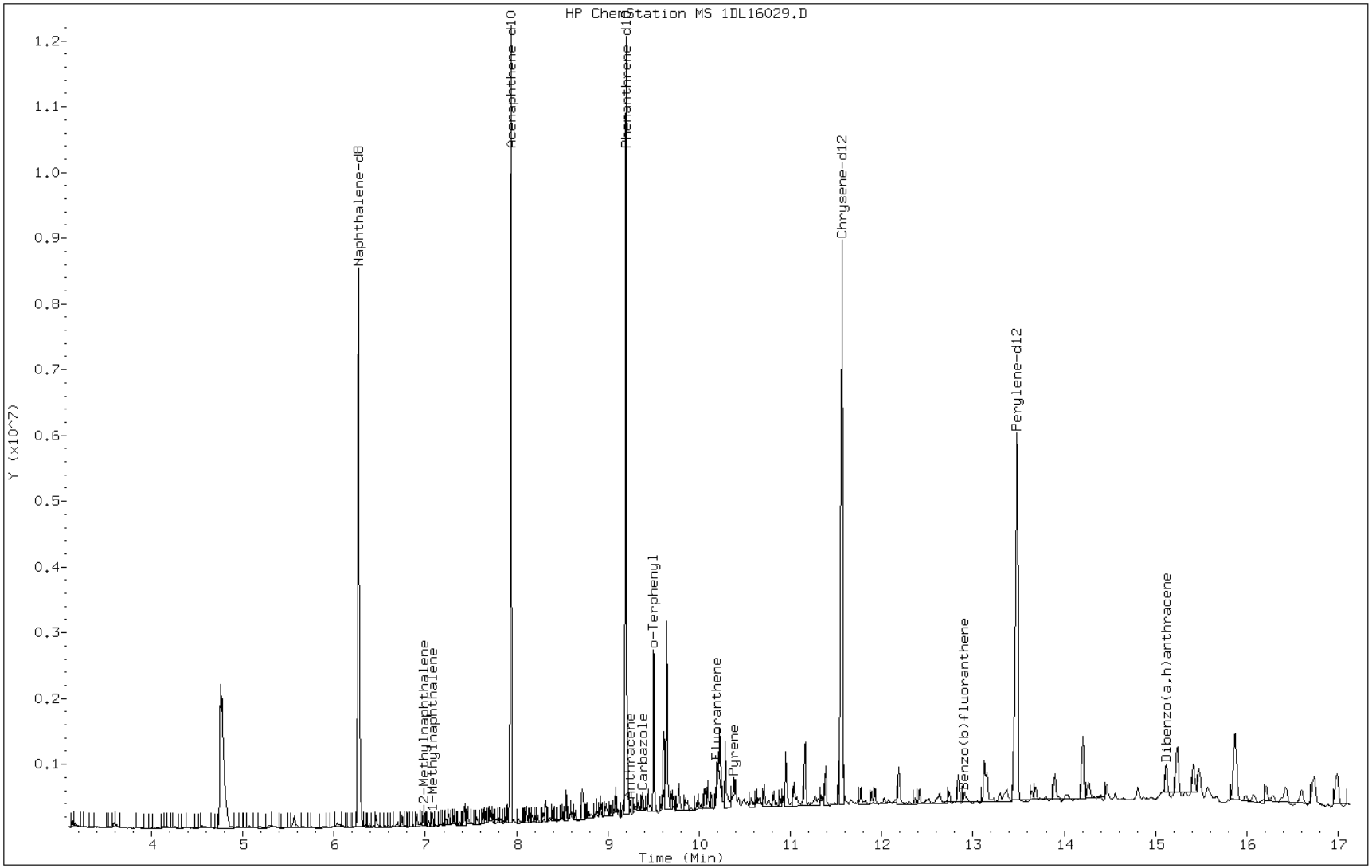
Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A

Operator: SCC



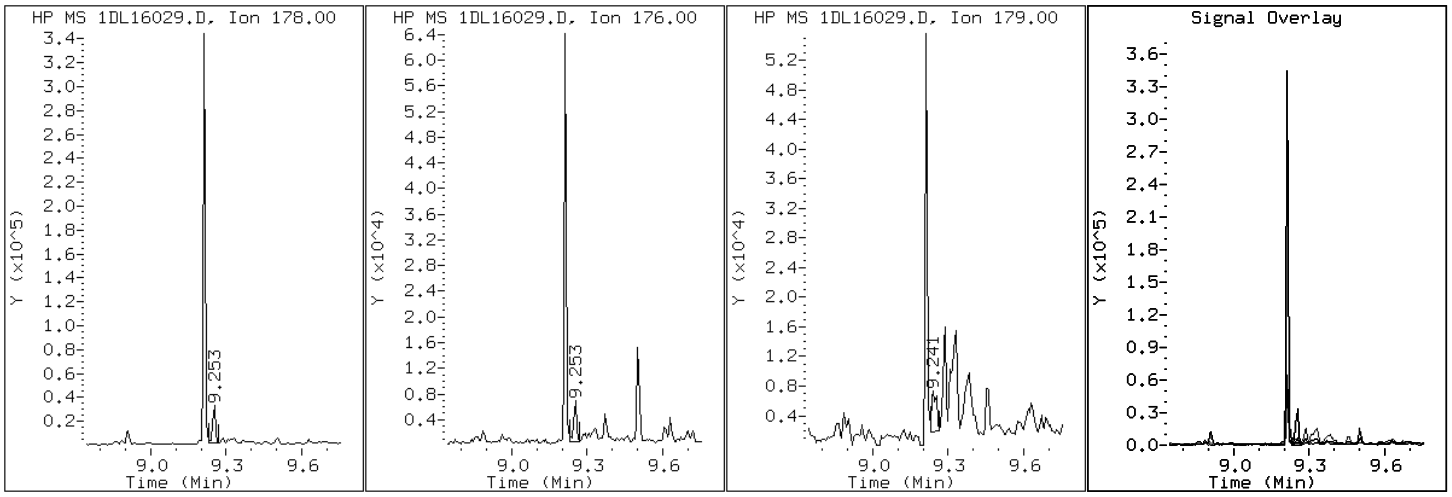
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A  Operator: SCC

11 Anthracene



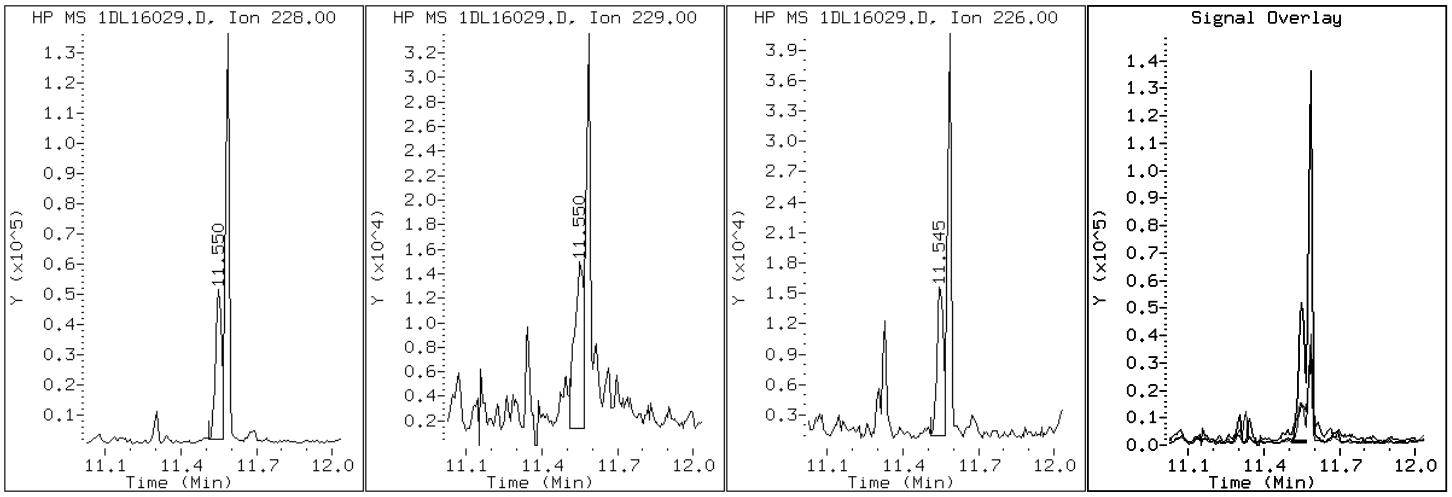
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

16 Benzo(a)anthracene



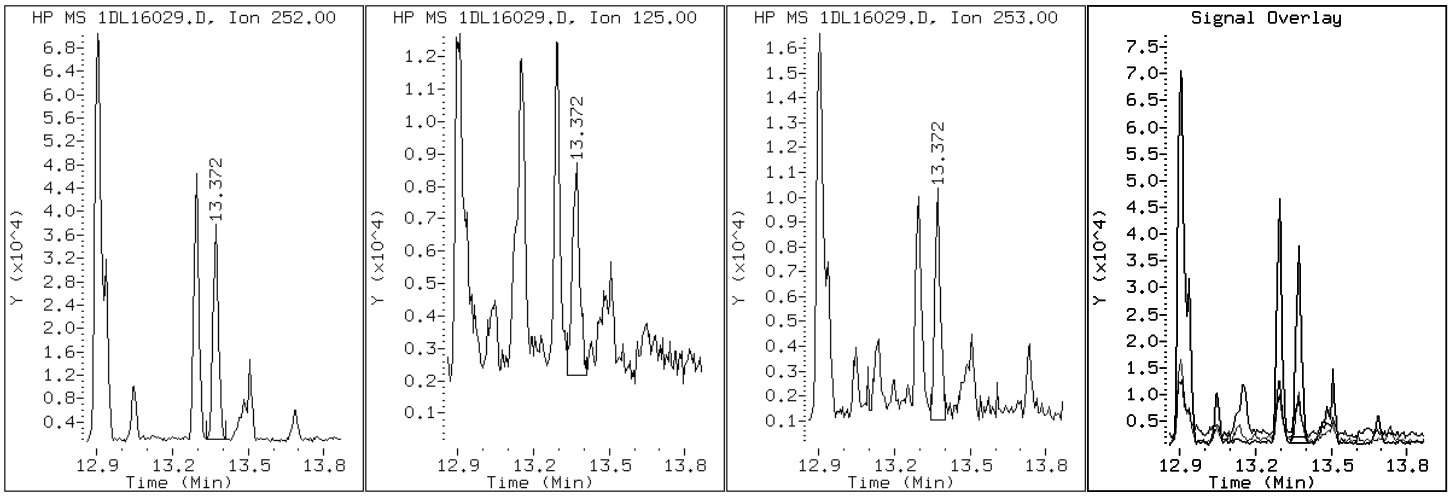
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

21 Benzo(a)pyrene



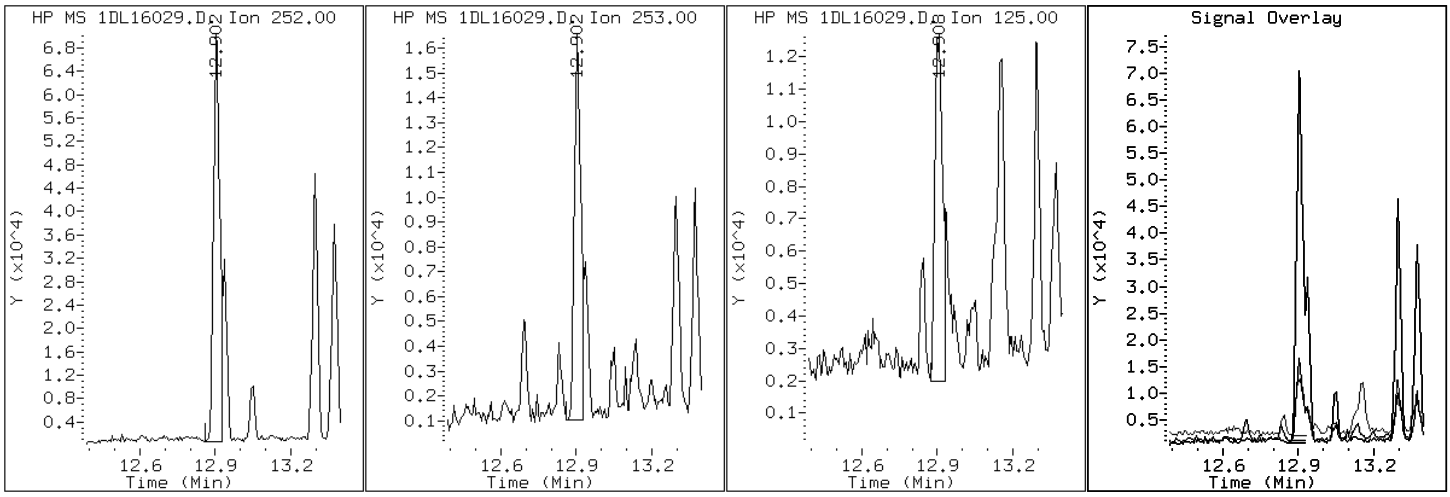
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

19 Benzo(b)fluoranthene



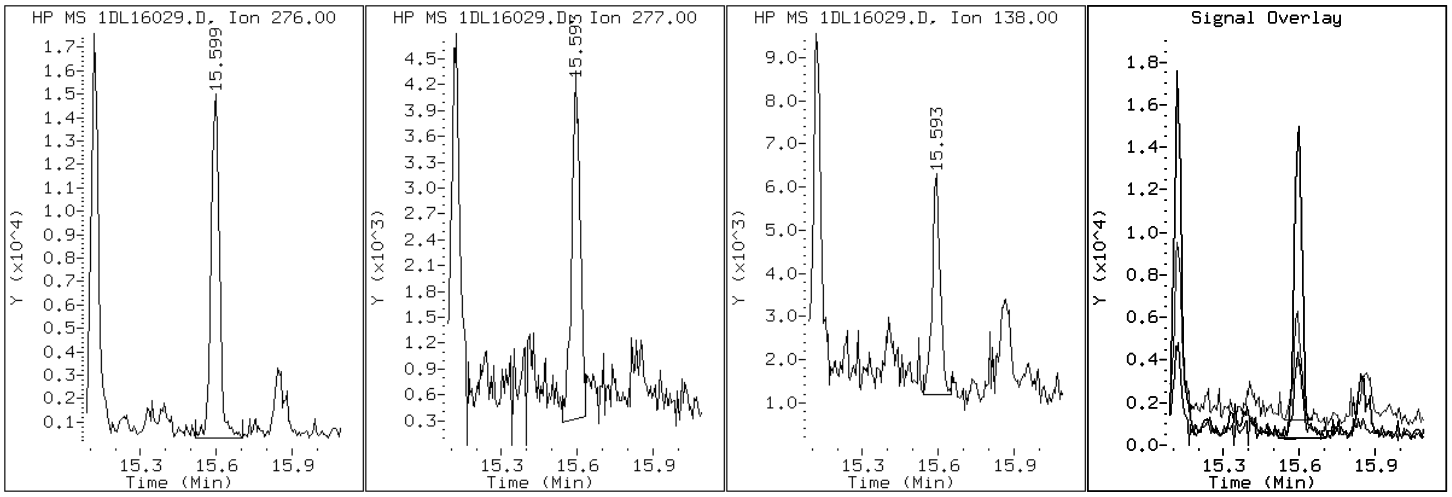
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

25 Benzo(g,h,i)perylene



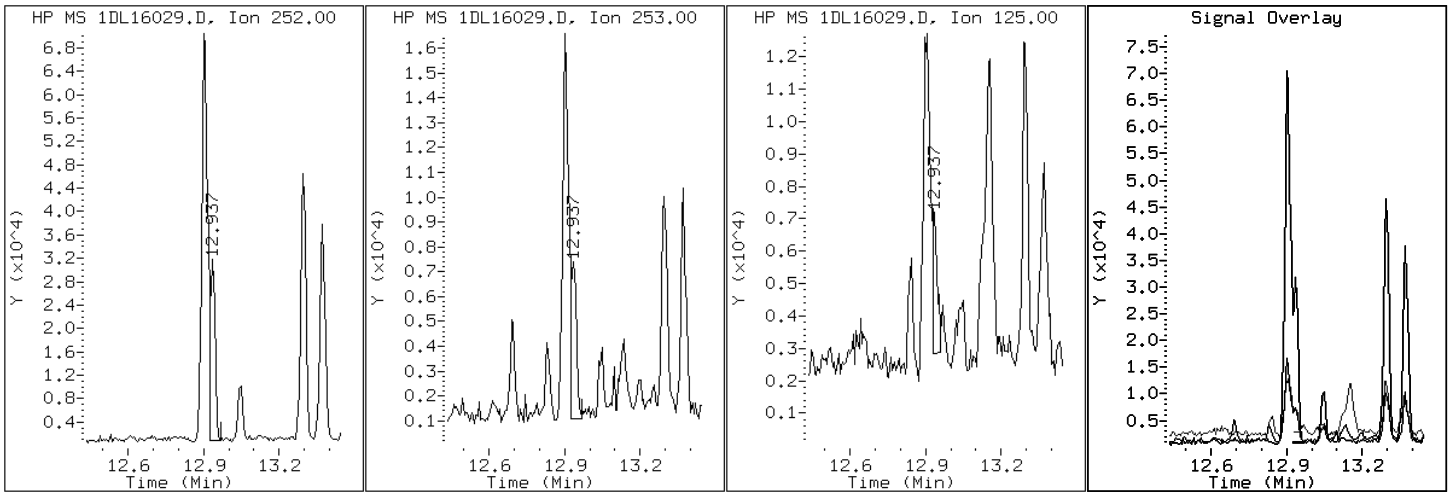
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

20 Benzo(k)fluoranthene



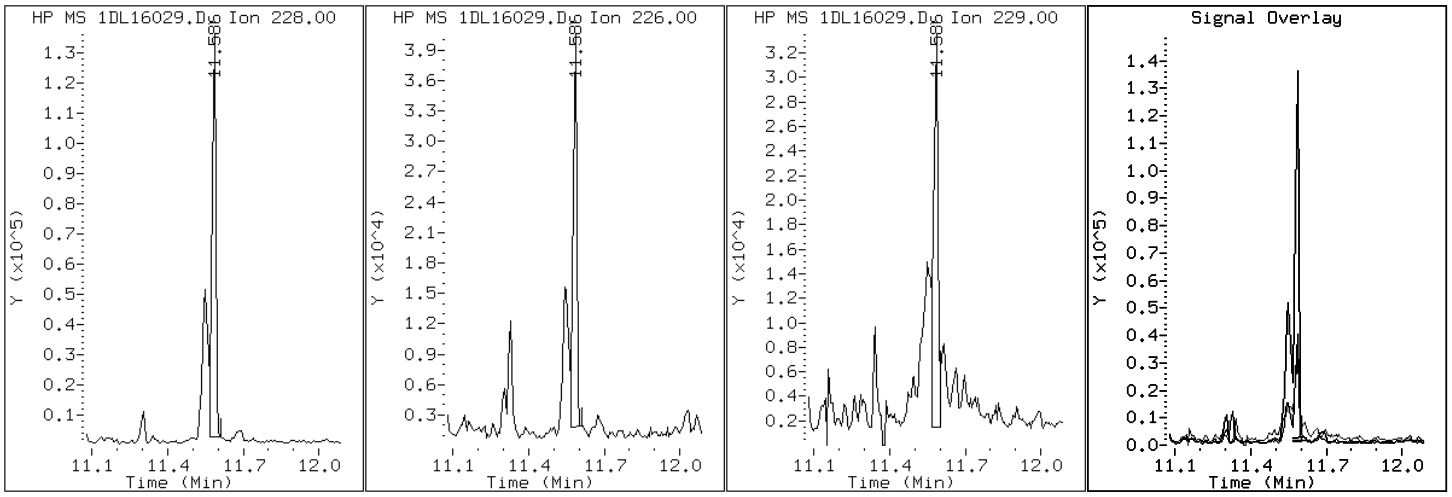
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

18 Chrysene



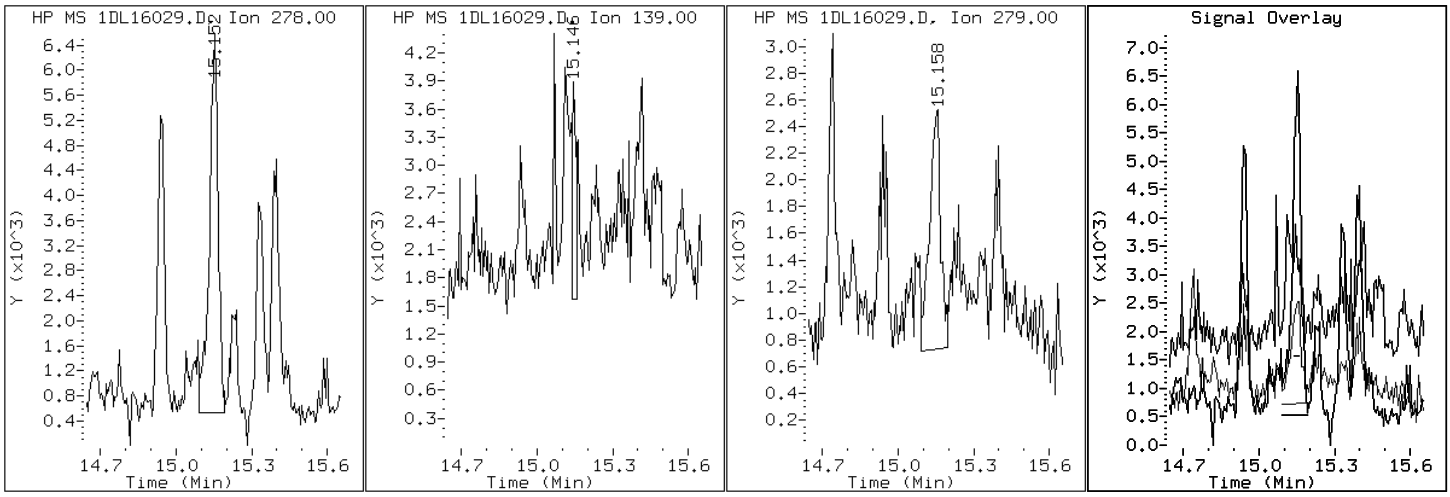
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

24 Dibenzo(a,h)anthracene



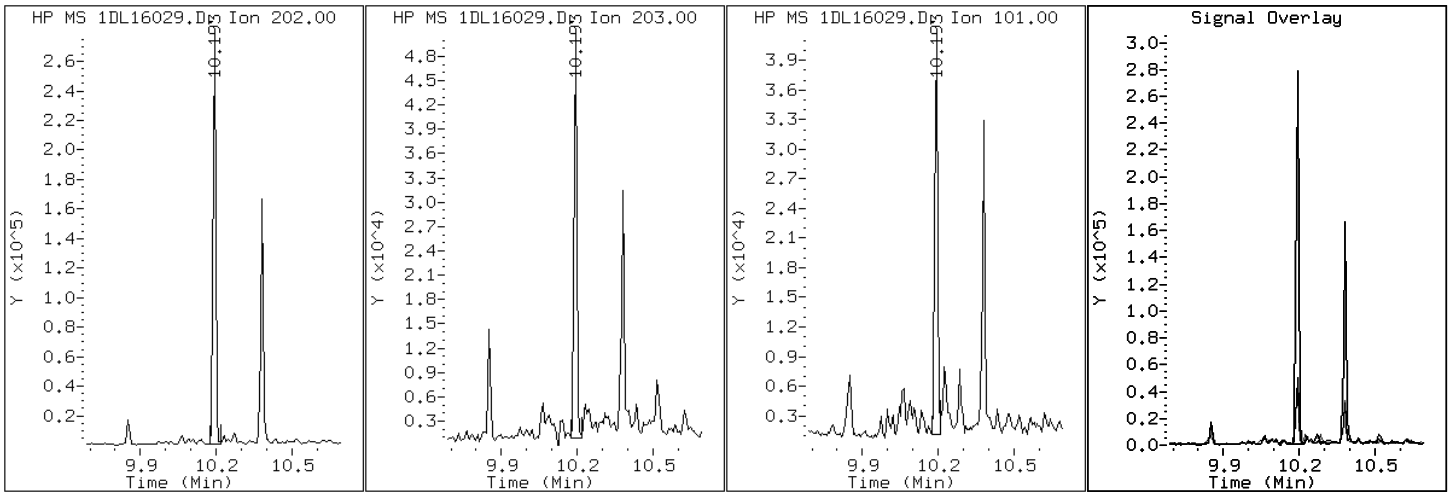
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

14 Fluoranthene



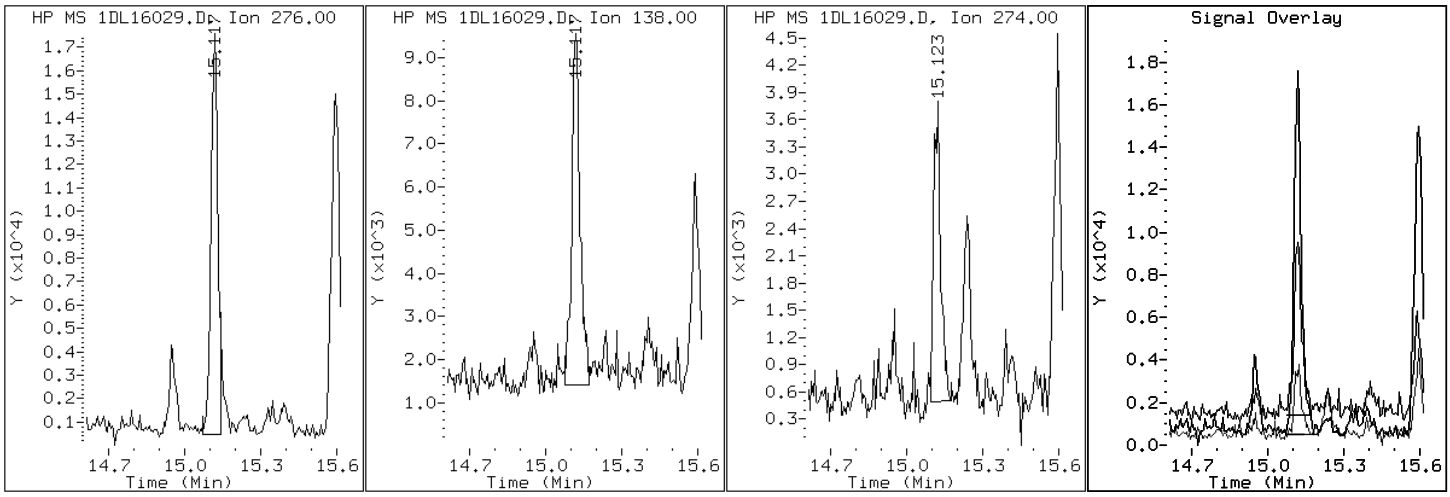
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



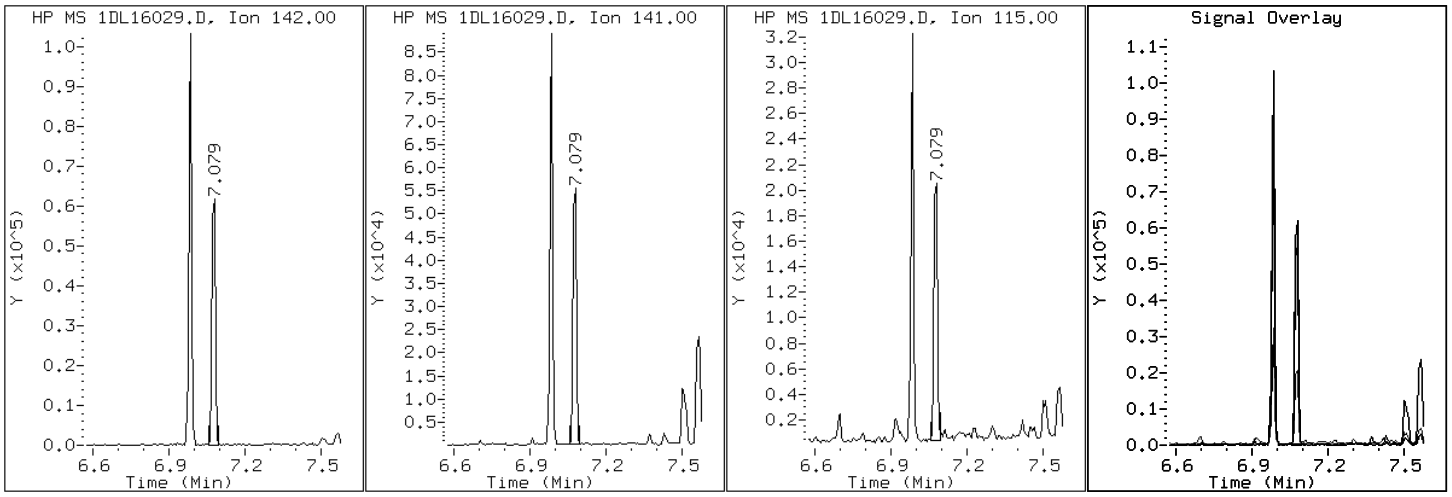
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

4 1-Methylnaphthalene



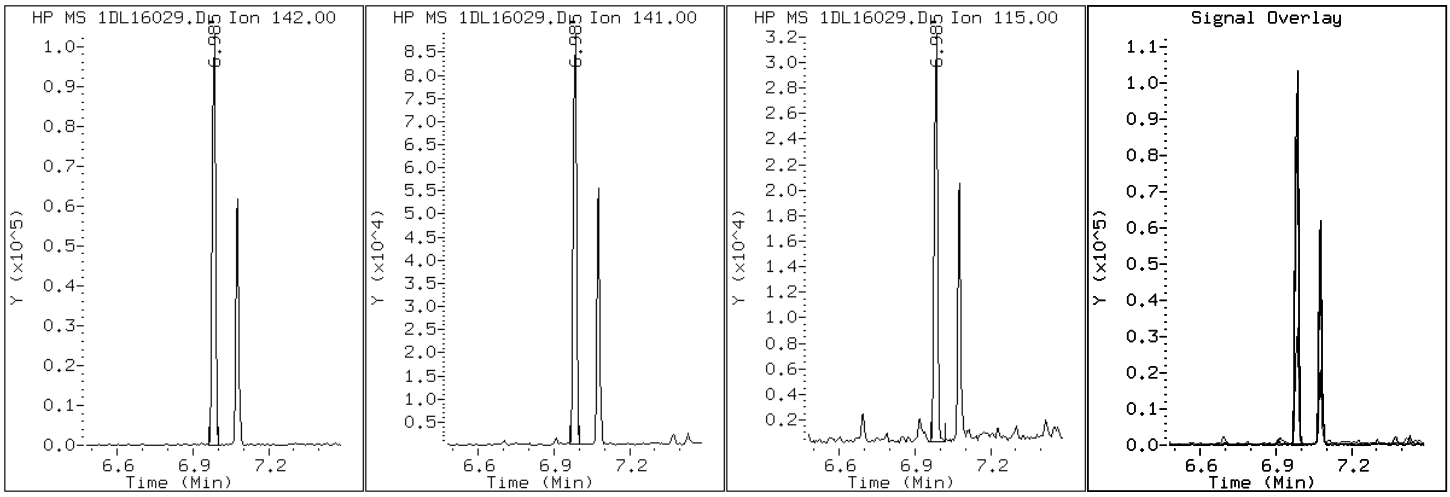
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

3 2-Methylnaphthalene



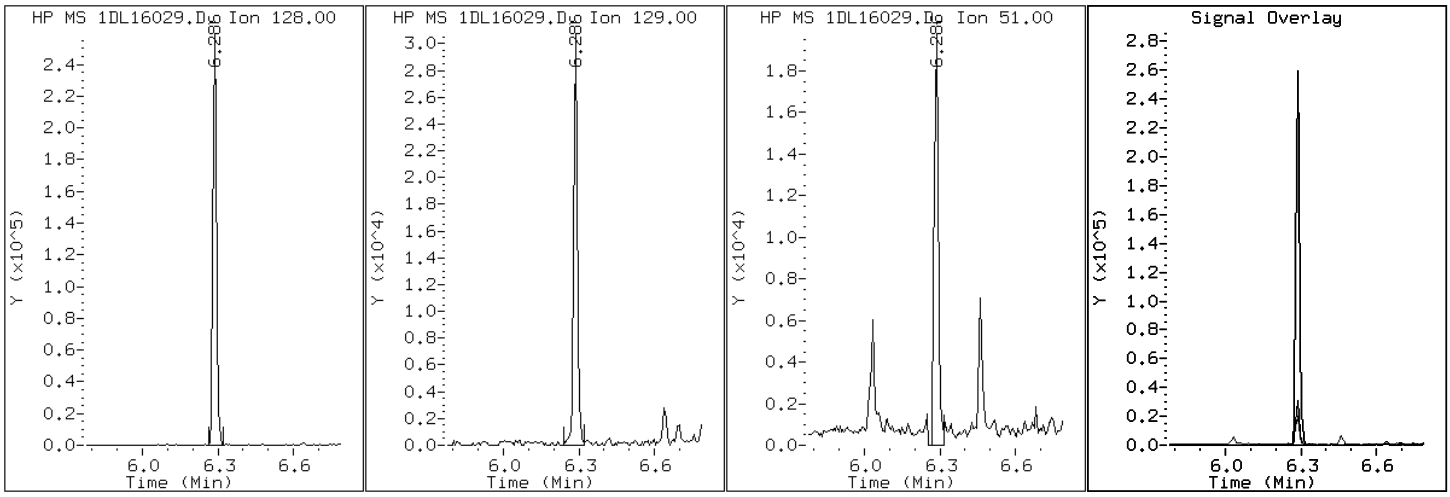
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

2 Naphthalene



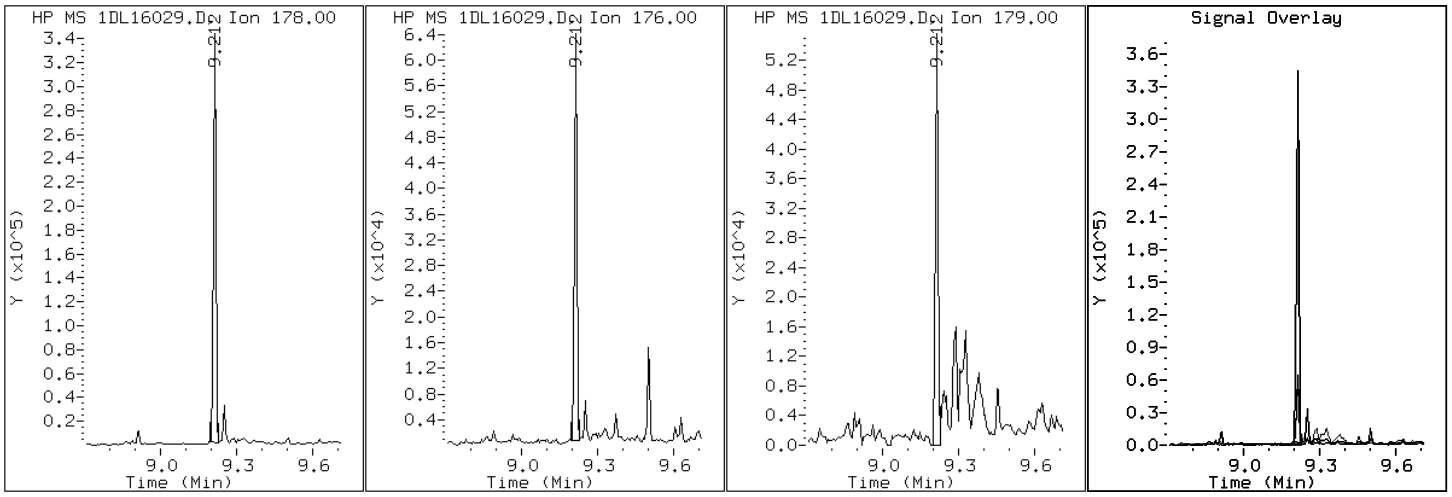
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

10 Phenanthrene



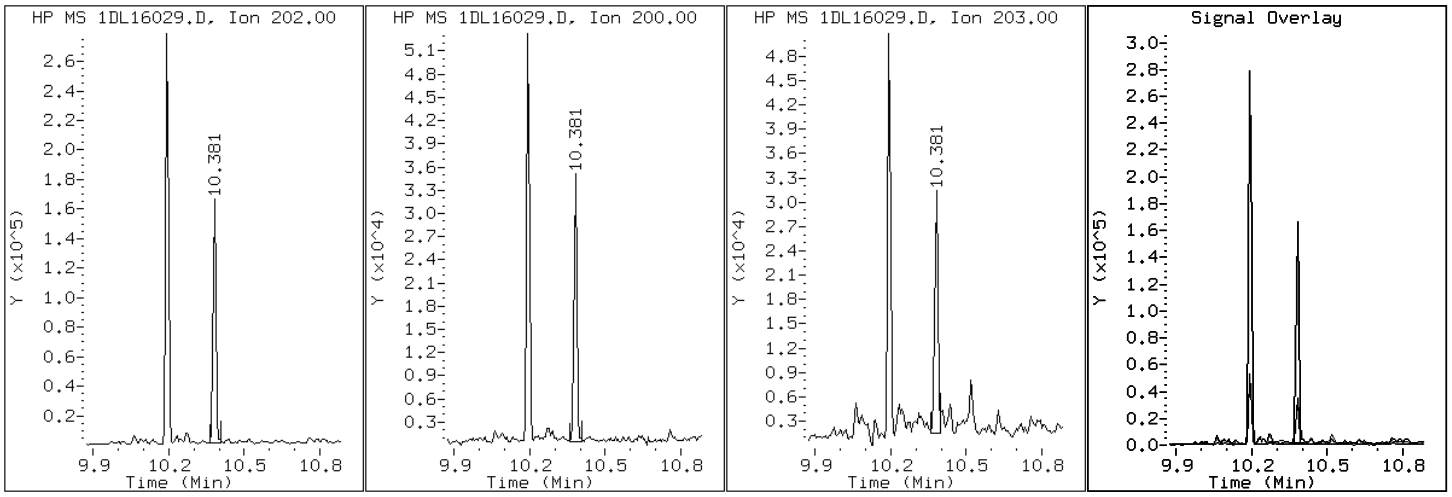
Data File: 1DL16029.D

Date: 16-DEC-2012 20:29

Client ID: FM0165L-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-29-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16029.D
Inj. Date and Time: 16-DEC-2012 20:29
Instrument ID: BSMSD.i
Client ID: FM0165L-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

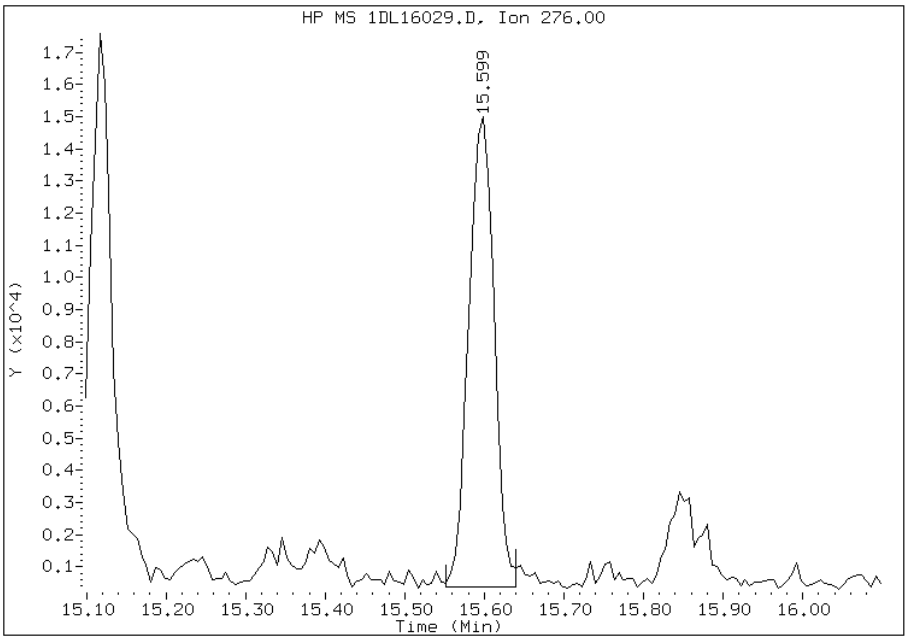
Processing Integration Results

RT: 15.60

Response: 32342

Amount: 0

Conc: 29



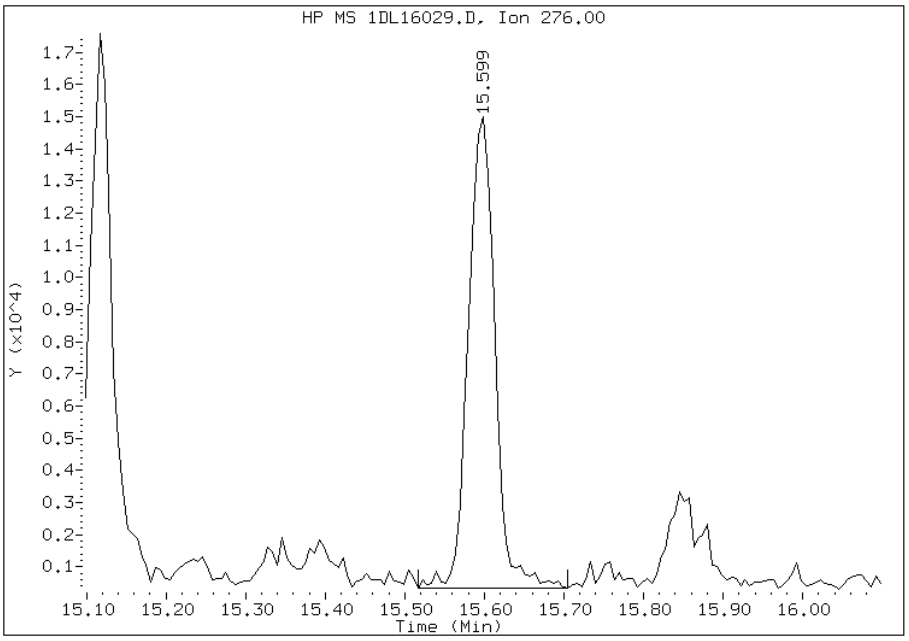

Manual Integration Results

RT: 15.60

Response: 34067

Amount: 0

Conc: 31




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16029.D
Inj. Date and Time: 16-DEC-2012 20:29
Instrument ID: BSMSD.i
Client ID: FM0165L-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

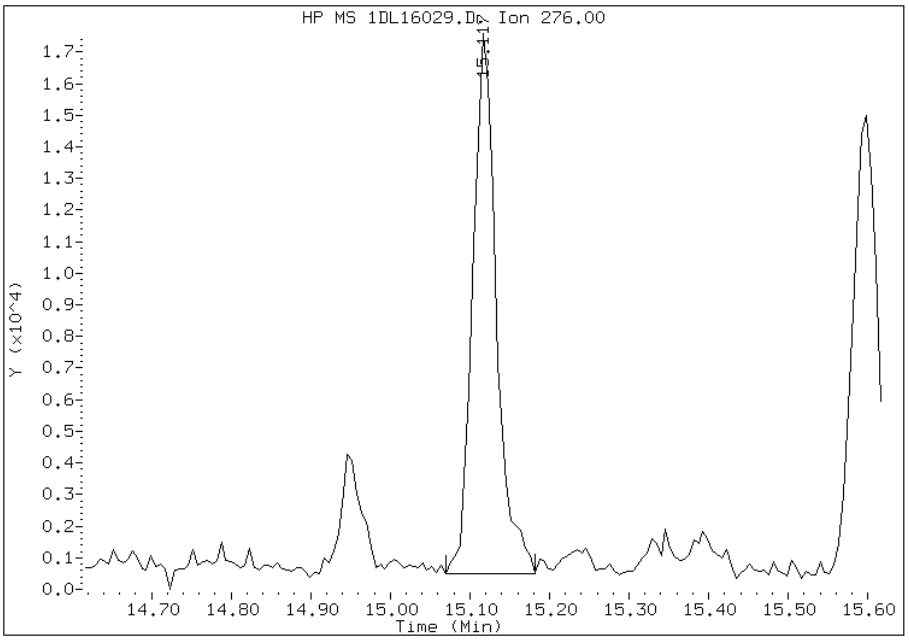
Processing Integration Results

RT: 15.12

Response: 35143

Amount: 0

Conc: 33



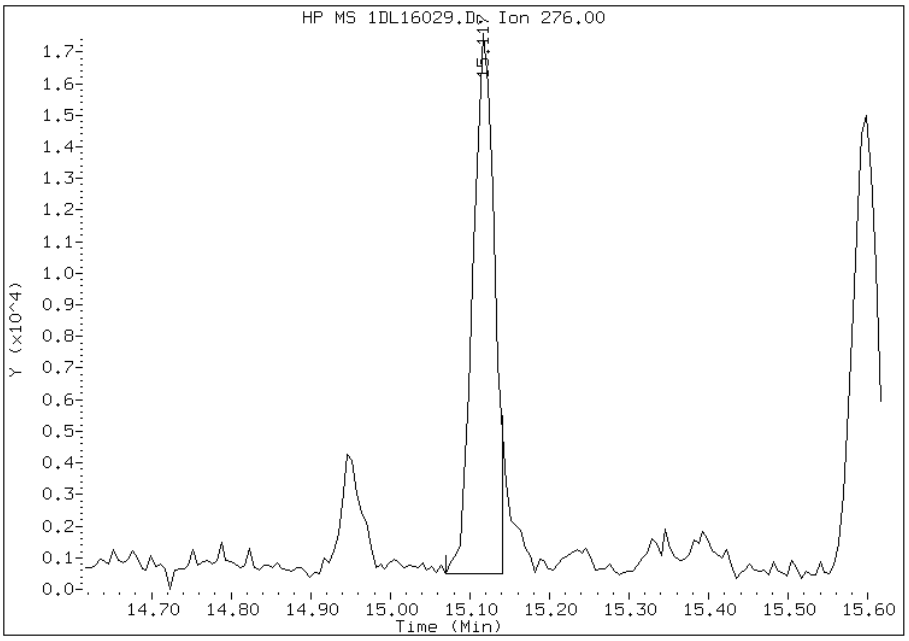

Manual Integration Results

RT: 15.12

Response: 31983

Amount: 0

Conc: 30




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165M-CS | Lab Sample ID: 680-85534-30

Matrix: Solid | Lab File ID: 1DL16030.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:54

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 14.97(g) | Date Analyzed: 12/16/2012 20:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 130 | U | 130 | 26 |
| 208-96-8 | Acenaphthylene | 52 | U | 52 | 6.4 |
| 120-12-7 | Anthracene | 11 | | 11 | 5.4 |
| 56-55-3 | Benzo[a]anthracene | 47 | | 10 | 5.0 |
| 50-32-8 | Benzo[a]pyrene | 40 | | 13 | 6.7 |
| 205-99-2 | Benzo[b]fluoranthene | 78 | | 16 | 7.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 26 | | 26 | 5.7 |
| 207-08-9 | Benzo[k]fluoranthene | 29 | | 10 | 4.6 |
| 218-01-9 | Chrysene | 63 | | 12 | 5.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 9.5 | J | 26 | 5.3 |
| 206-44-0 | Fluoranthene | 82 | | 26 | 5.2 |
| 86-73-7 | Fluorene | 26 | U | 26 | 5.3 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 23 | J | 26 | 9.1 |
| 90-12-0 | 1-Methylnaphthalene | 27 | J | 52 | 5.7 |
| 91-57-6 | 2-Methylnaphthalene | 40 | J | 52 | 9.1 |
| 91-20-3 | Naphthalene | 64 | | 52 | 5.7 |
| 85-01-8 | Phenanthrene | 71 | | 10 | 5.0 |
| 129-00-0 | Pyrene | 54 | | 26 | 4.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 61 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16030.D
Lab Smp Id: 680-85534-A-30-A  Client Smp ID: FM0165M-CS
Inj Date : 16-DEC-2012 20:51
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-30-A
Misc Info : 680-85534-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.970 | Weight Extracted |
| M | 22.186 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.266 | 6.265 | (1.000) | 4334016 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.935 | 7.934 | (1.000) | 2556193 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.198 | 9.191 | (1.000) | 4056570 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.504 | 9.503 | (1.033) | 388042 | 6.06477 | 520 |
| * 17 Chrysene-d12 | 240 | 11.566 | 11.553 | (1.000) | 4006402 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.487 | 13.463 | (1.000) | 3657325 | 40.0000 | |
| 2 Naphthalene | 128 | 6.284 | 6.283 | (1.003) | 84083 | 0.74716 | 64 |
| 3 2-Methylnaphthalene | 142 | 6.983 | 6.982 | (1.114) | 34022 | 0.46824 | 40 |
| 4 1-Methylnaphthalene | 142 | 7.077 | 7.076 | (1.129) | 21554 | 0.31290 | 27 |
| 5 Acenaphthylene | 152 | 7.806 | 7.805 | (0.984) | 5507 | 0.04932 | 4.2 |
| 10 Phenanthrene | 178 | 9.210 | 9.209 | (1.001) | 95488 | 0.82267 | 71 |
| 11 Anthracene | 178 | 9.251 | 9.250 | (1.006) | 14628 | 0.12571 | 11 |
| 12 Carbazole | 167 | 9.386 | 9.379 | (1.020) | 12879 | 0.12502 | 11(Q) |
| 14 Fluoranthene | 202 | 10.191 | 10.190 | (1.108) | 112542 | 0.95937 | 82 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Pyrene | 202 | 10.379 | 10.378 | (0.897) | 79730 | 0.62398 | 54 |
| 16 Benzo(a)anthracene | 228 | 11.548 | 11.530 | (0.998) | 59070 | 0.54631 | 47 |
| 18 Chrysene | 228 | 11.584 | 11.583 | (1.002) | 83455 | 0.73527 | 63 |
| 19 Benzo(b)fluoranthene | 252 | 12.900 | 12.893 | (0.956) | 81966 | 0.91310 | 78 |
| 20 Benzo(k)fluoranthene | 252 | 12.935 | 12.940 | (0.959) | 33225 | 0.33406 | 29(H) |
| 21 Benzo(a)pyrene | 252 | 13.370 | 13.363 | (0.991) | 42105 | 0.47009 | 40 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.121 | 15.114 | (1.121) | 23457 | 0.26553 | 23(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.156 | 15.149 | (1.124) | 9560 | 0.11025 | 9.5(M) |
| 25 Benzo(g,h,i)perylene | 276 | 15.597 | 15.590 | (1.156) | 27194 | 0.29902 | 26(M) |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL16030.D

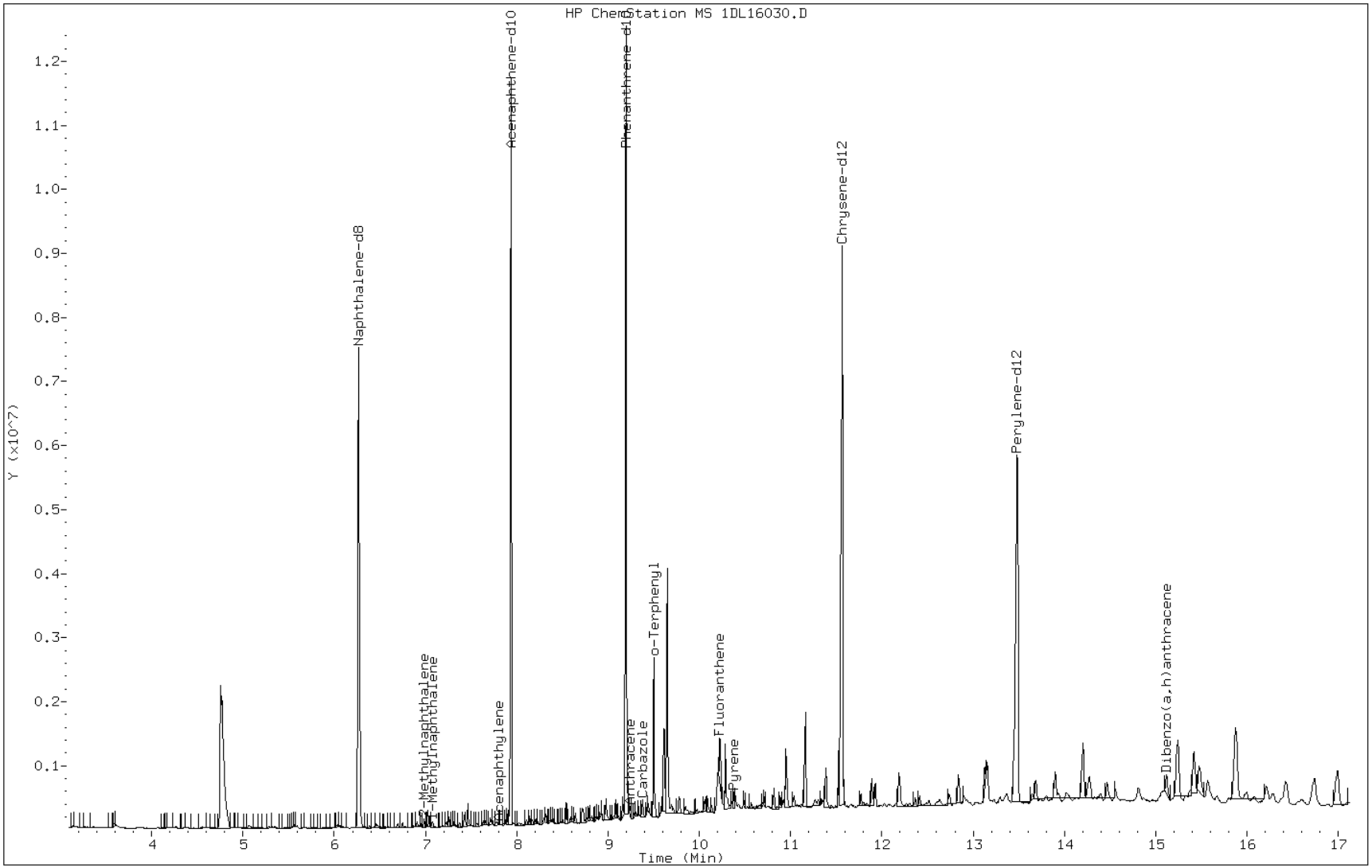
Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A

Operator: SCC



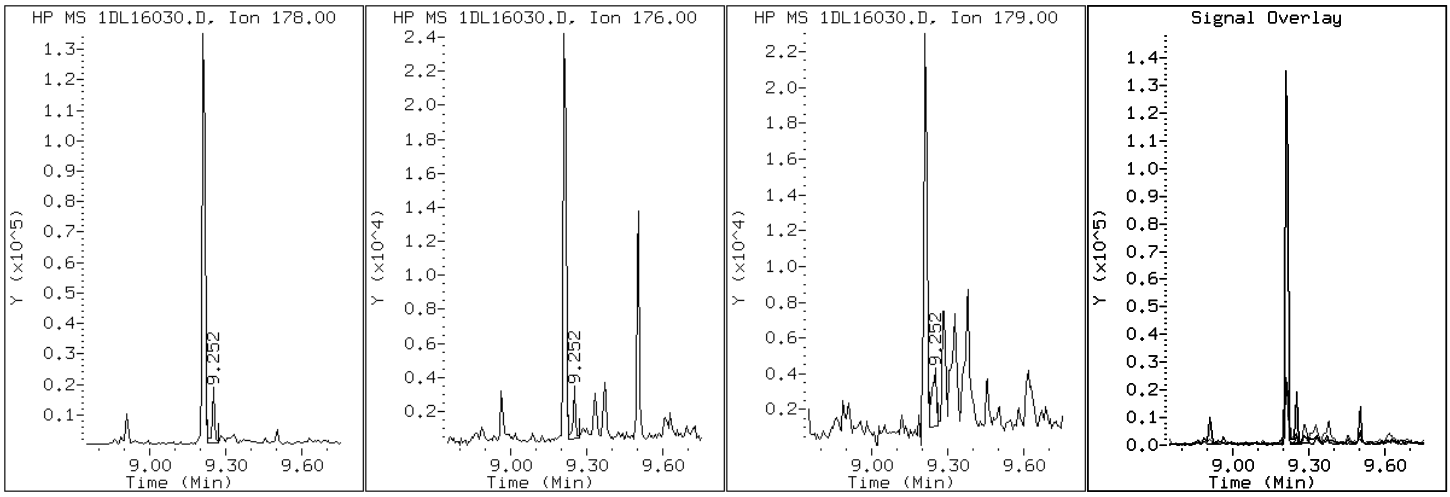
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

11 Anthracene



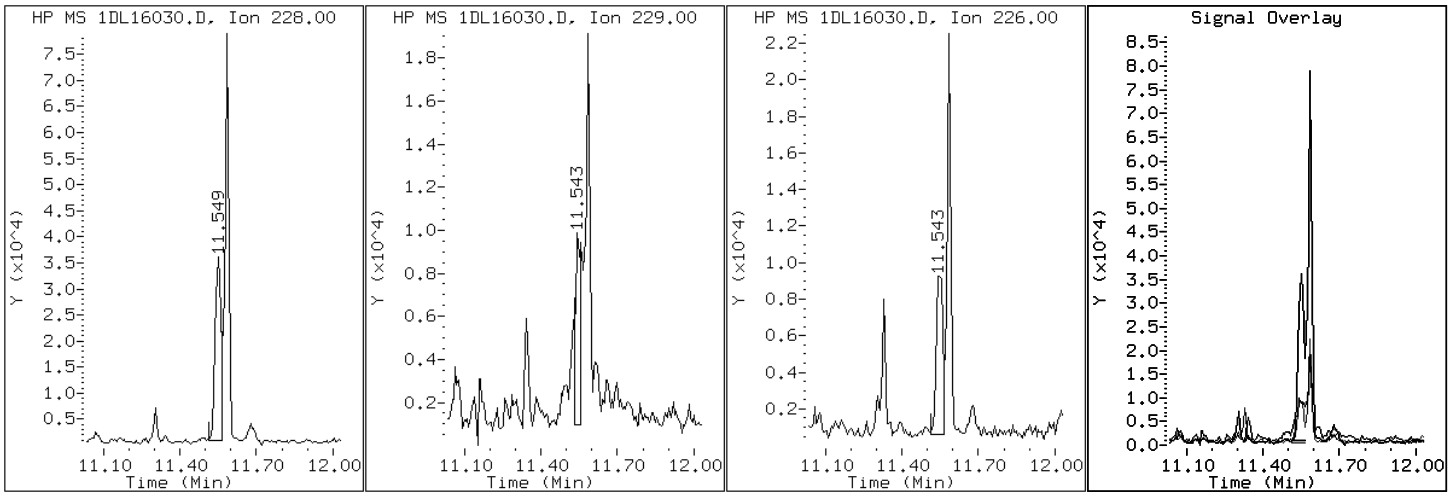
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

16 Benzo(a)anthracene



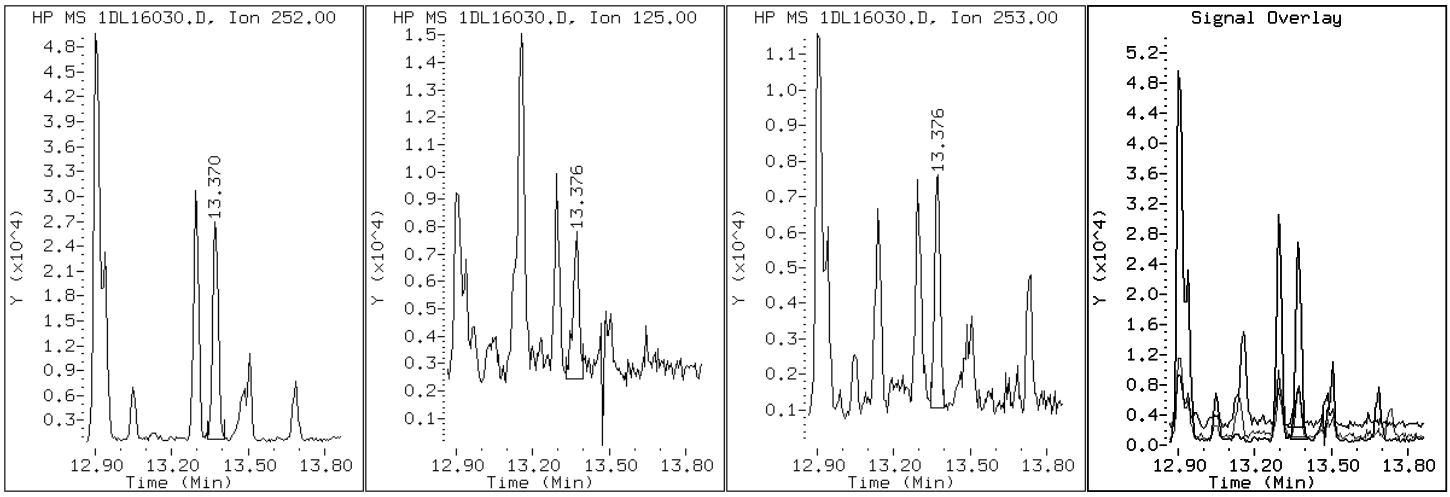
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

21 Benzo(a)pyrene



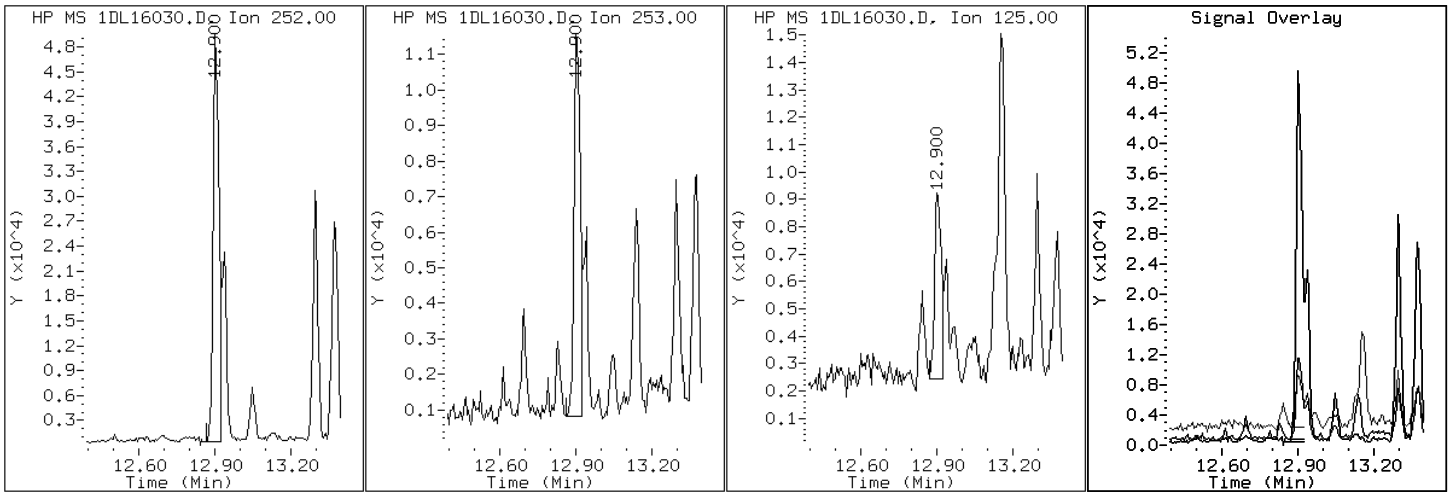
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

19 Benzo(b)fluoranthene



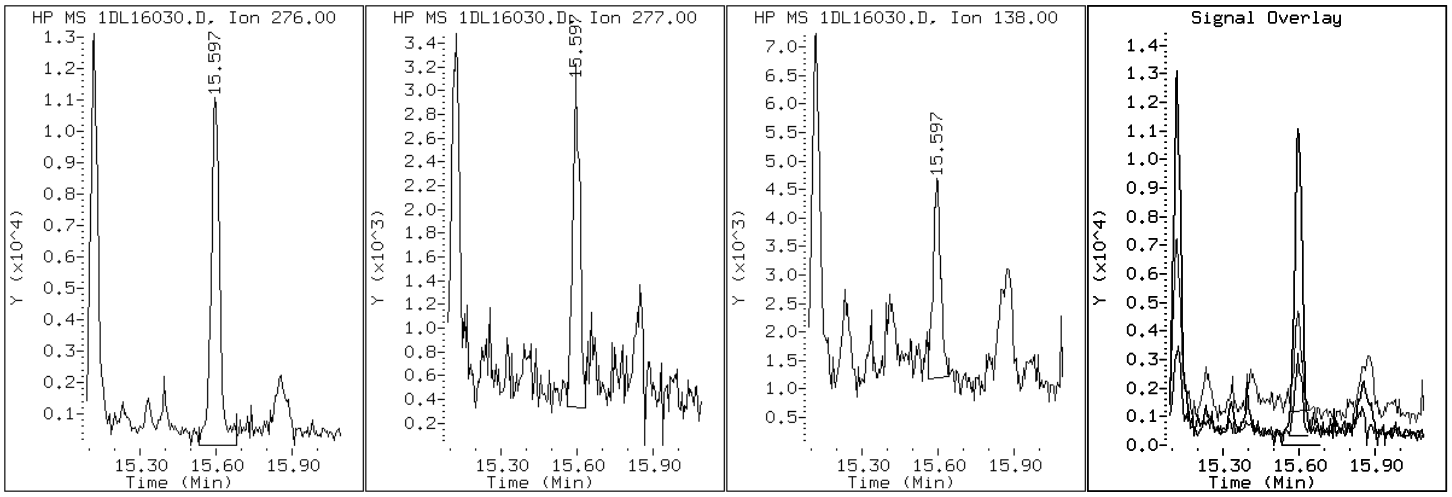
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

25 Benzo(g,h,i)perylene



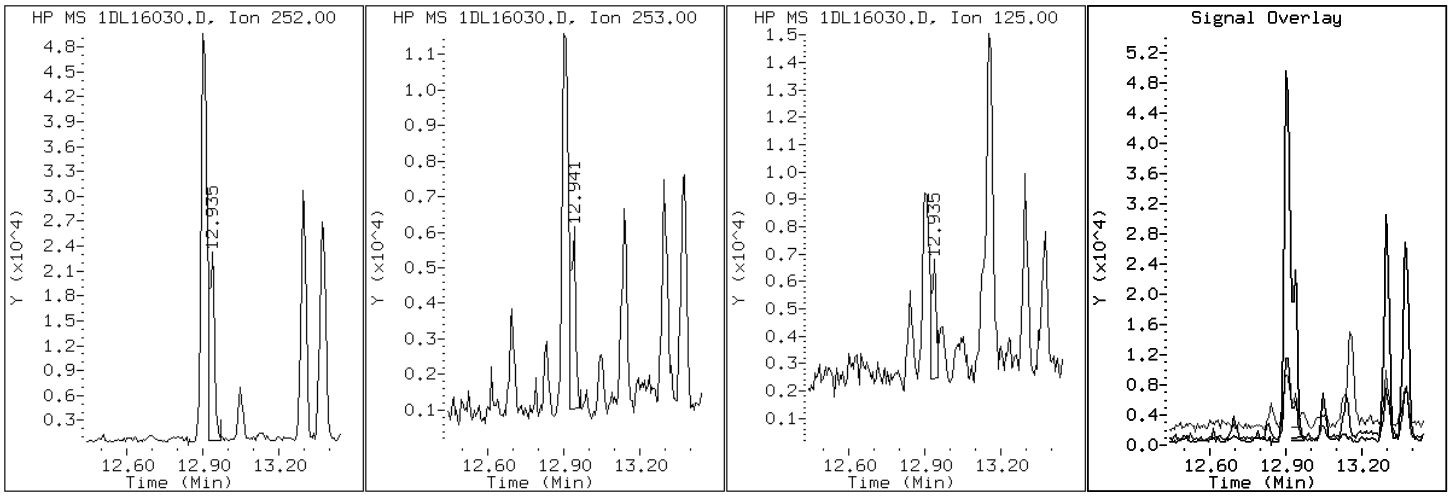
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

20 Benzo(k)fluoranthene



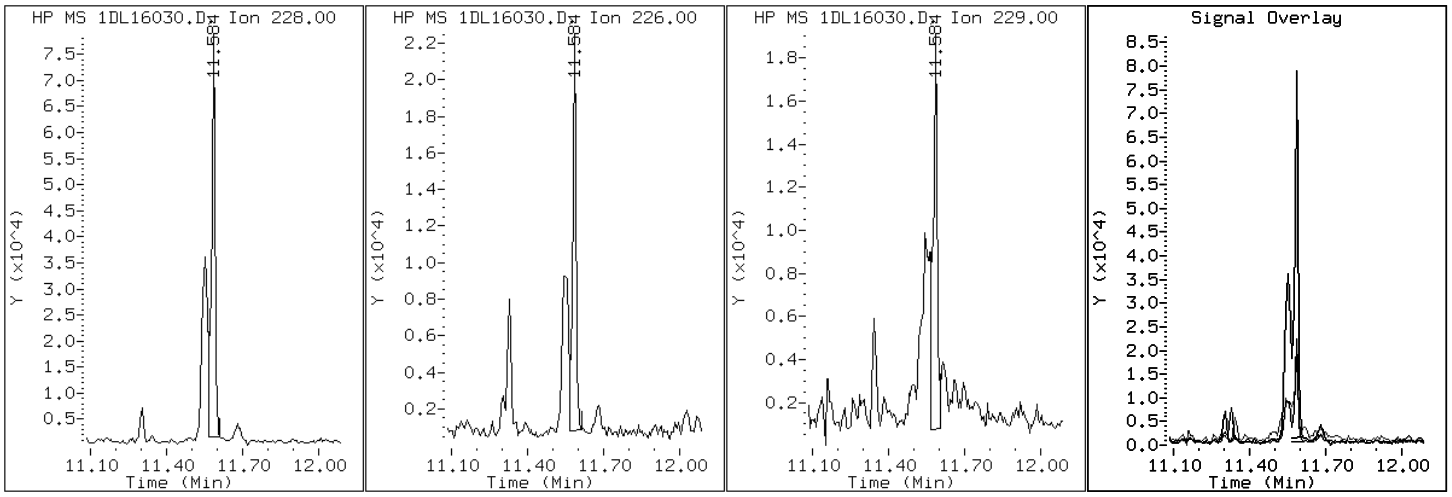
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

18 Chrysene



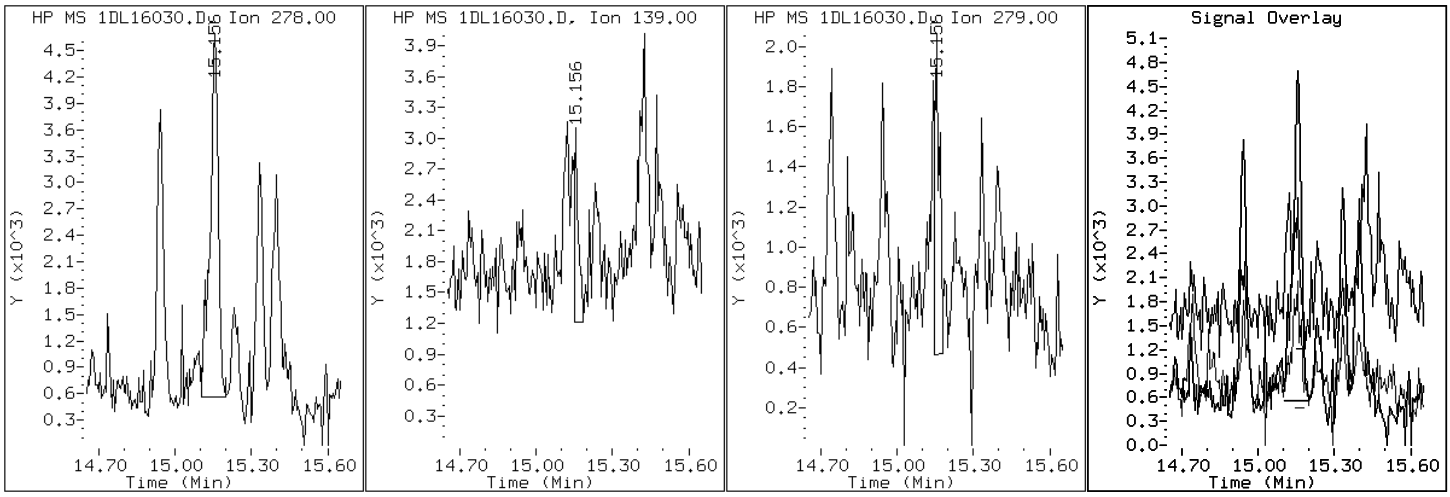
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

24 Dibenzo(a,h)anthracene



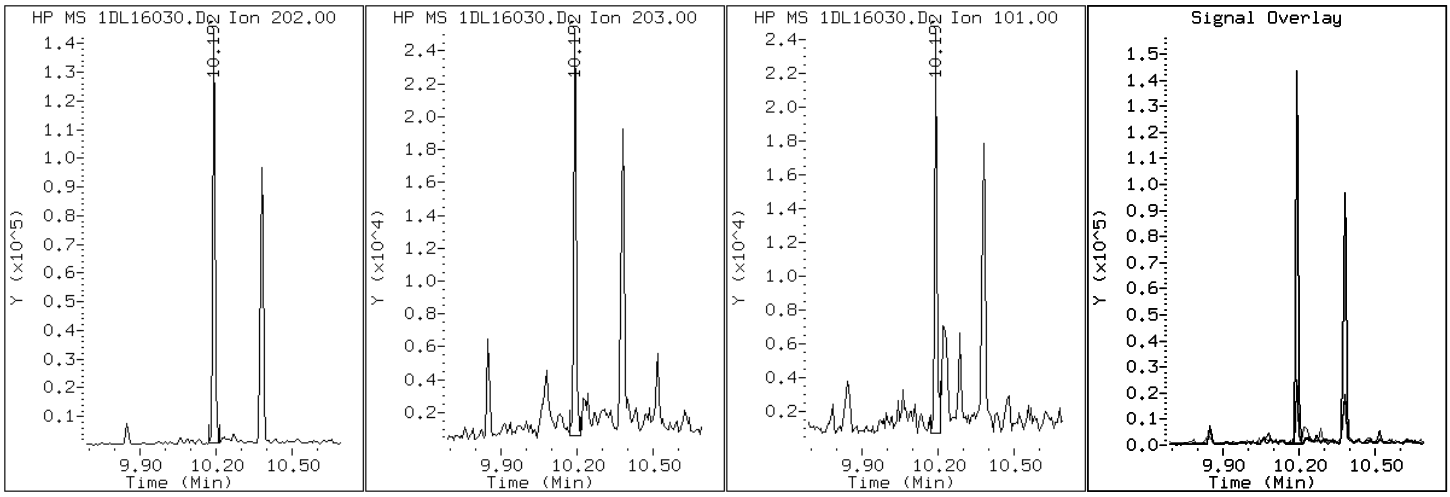
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

14 Fluoranthene



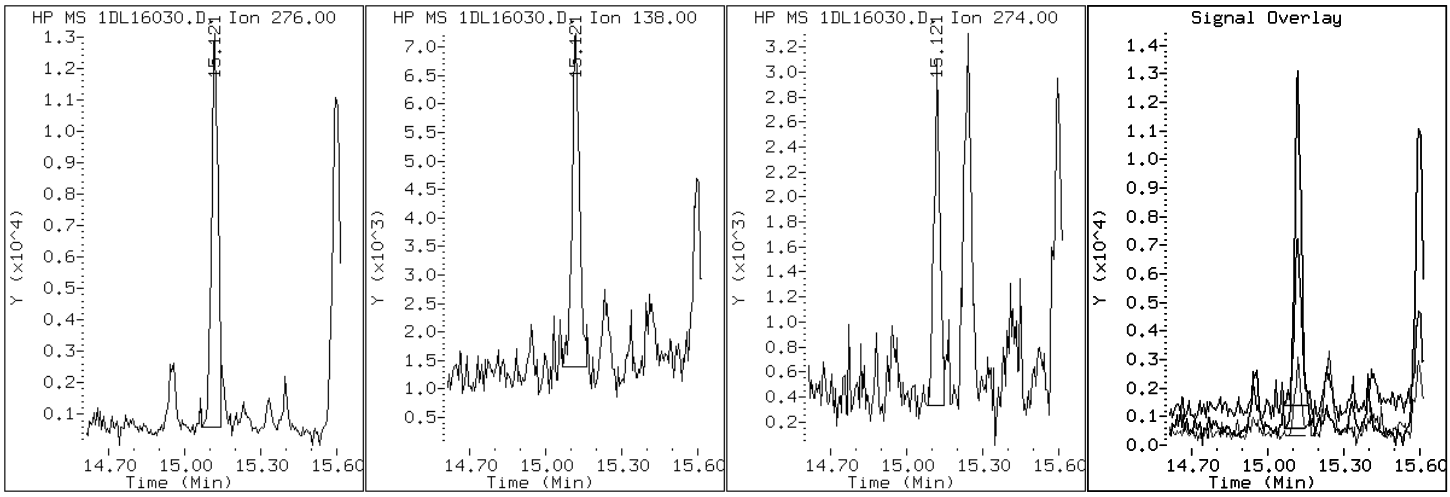
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



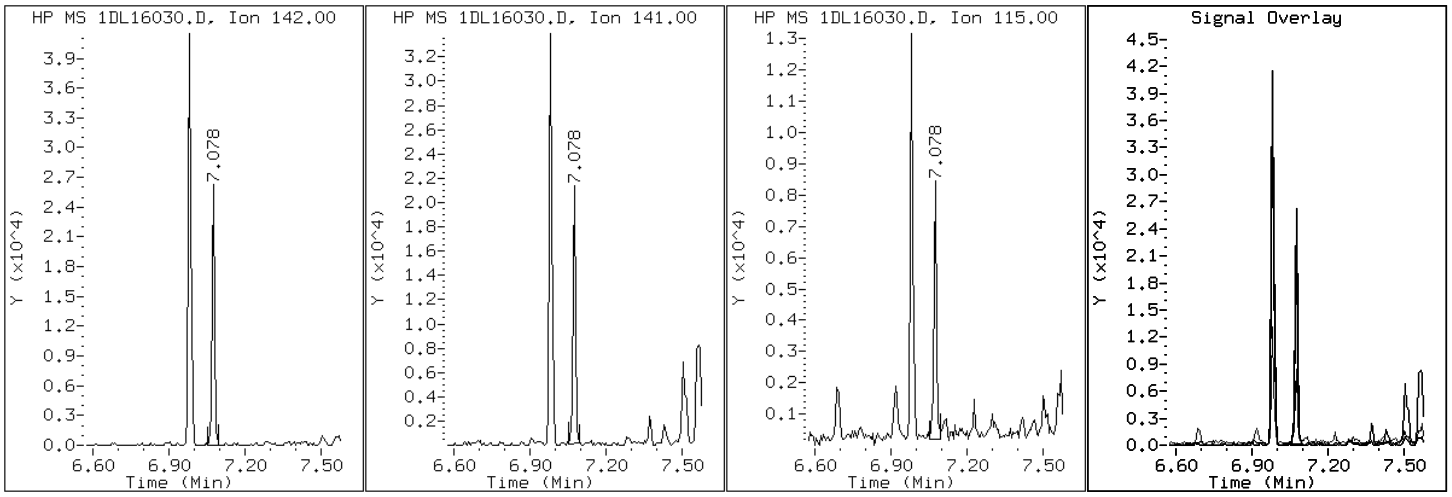
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS  Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A  Operator: SCC

4 1-Methylnaphthalene



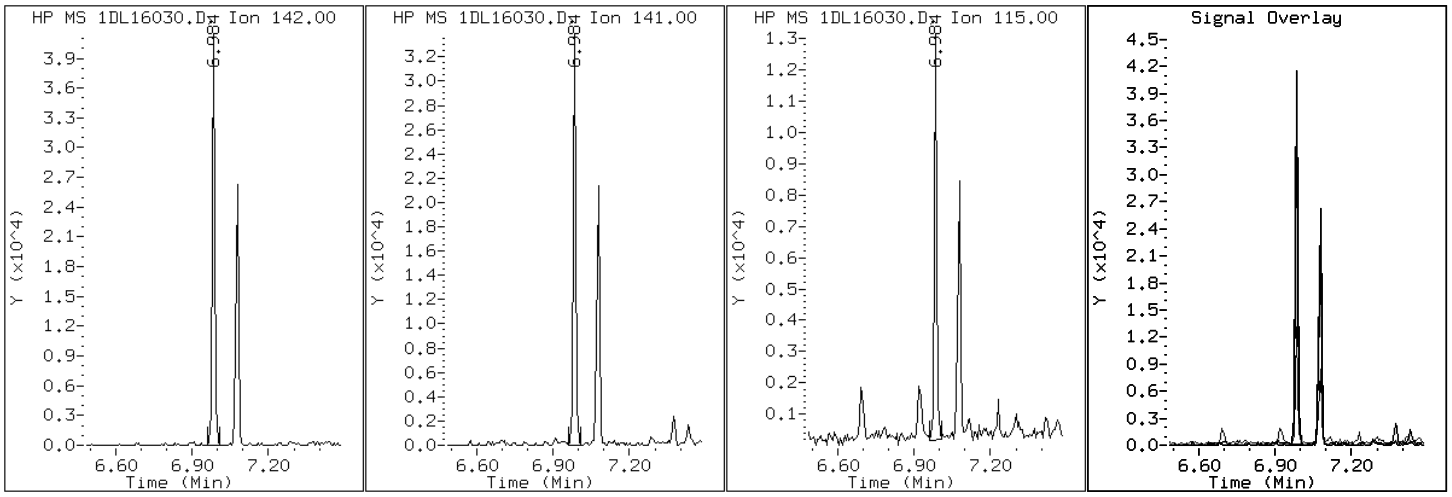
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

3 2-Methylnaphthalene



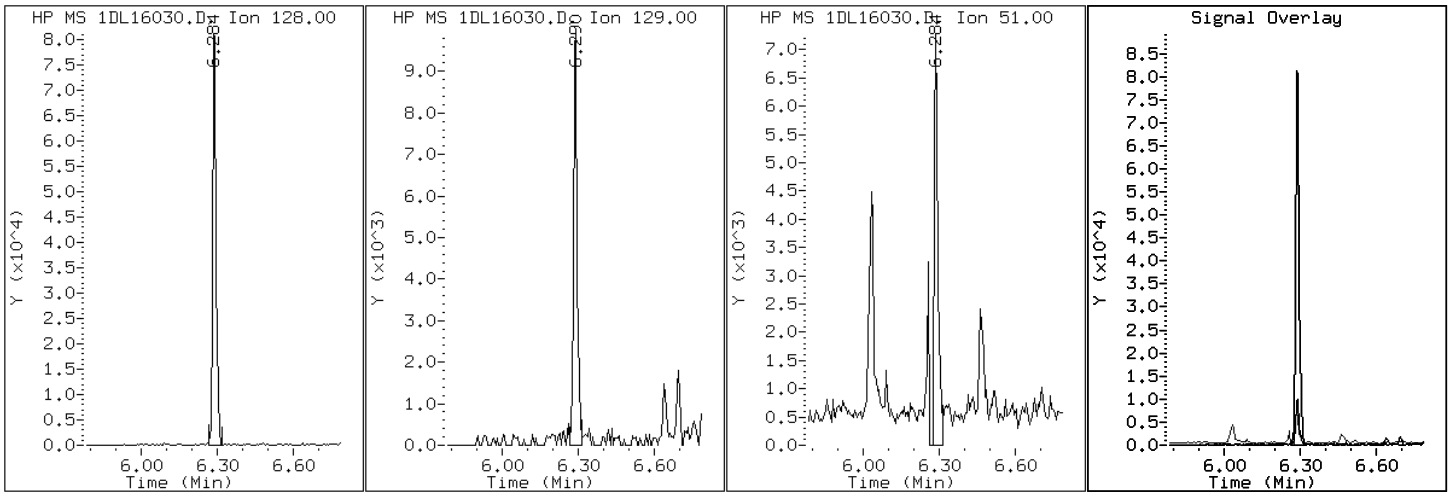
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

2 Naphthalene



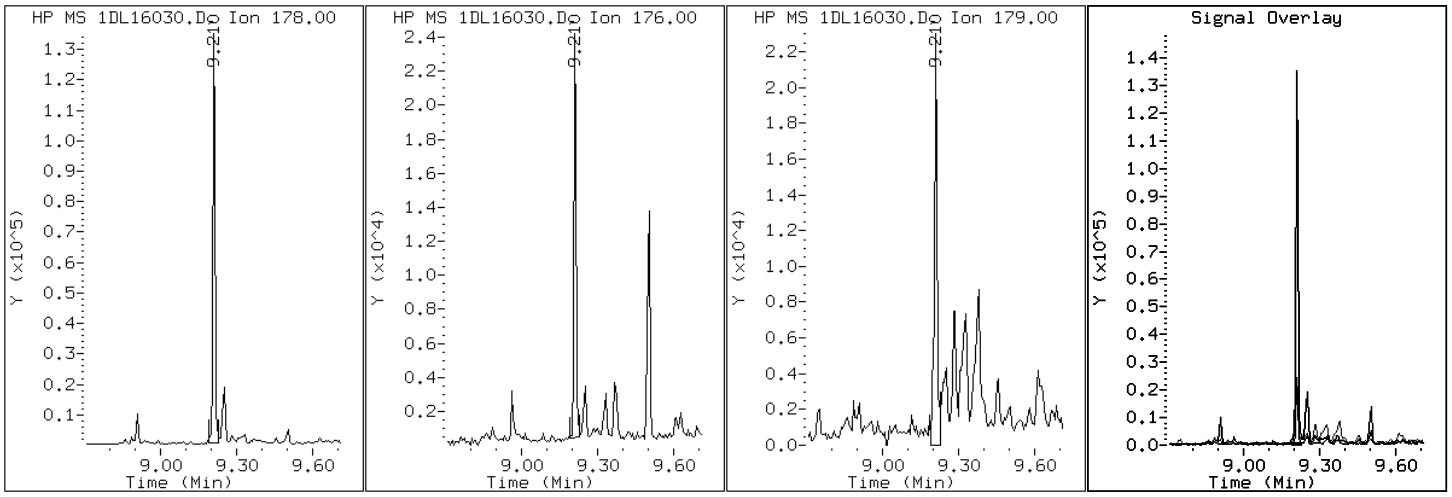
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

10 Phenanthrene



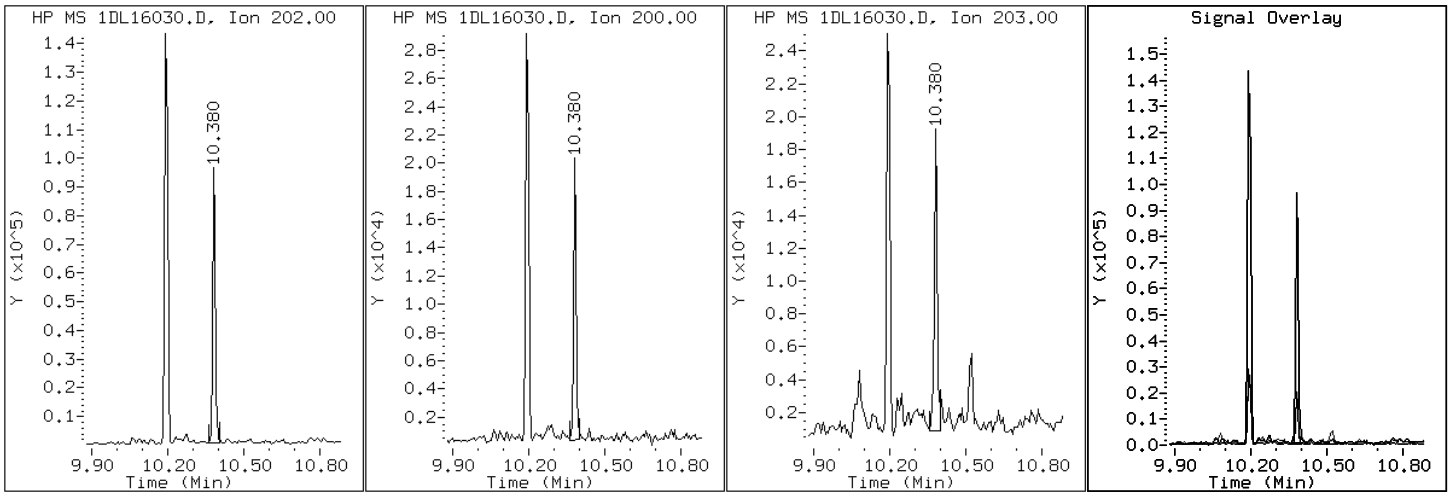
Data File: 1DL16030.D

Date: 16-DEC-2012 20:51

Client ID: FM0165M-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-30-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL16030.D
Inj. Date and Time: 16-DEC-2012 20:51
Instrument ID: BSMSD.i
Client ID: FM0165M-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/18/2012

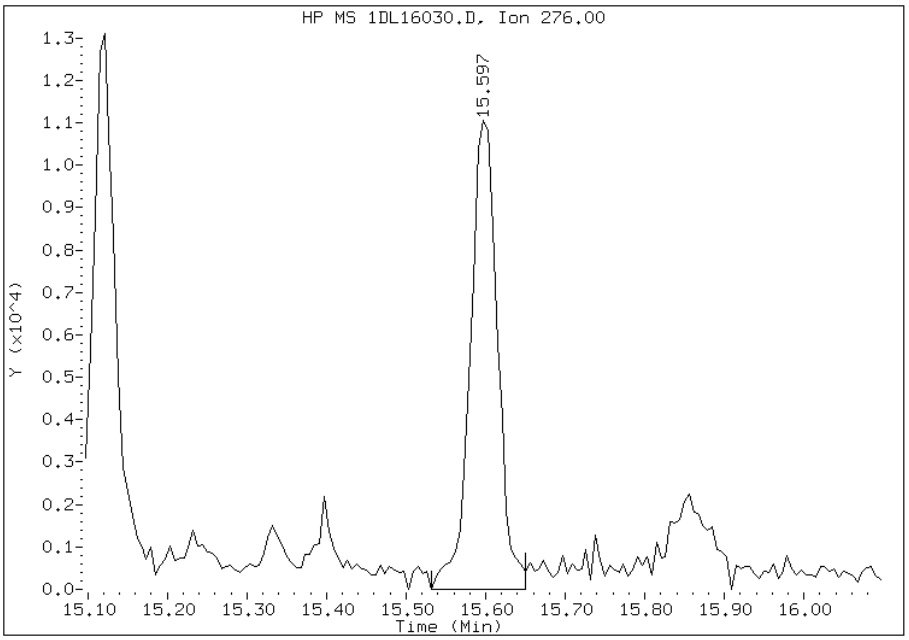
Processing Integration Results

RT: 15.60

Response: 26271

Amount: 0

Conc: 25



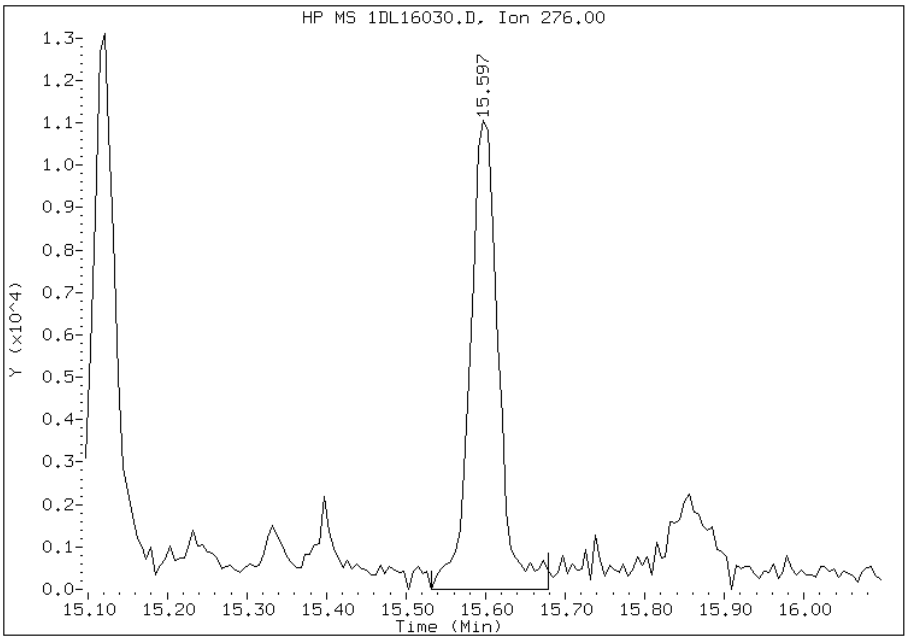

Manual Integration Results

RT: 15.60

Response: 27194

Amount: 0

Conc: 26




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16030.D
Inj. Date and Time: 16-DEC-2012 20:51
Instrument ID: BSMSD.i
Client ID: FM0165M-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/18/2012

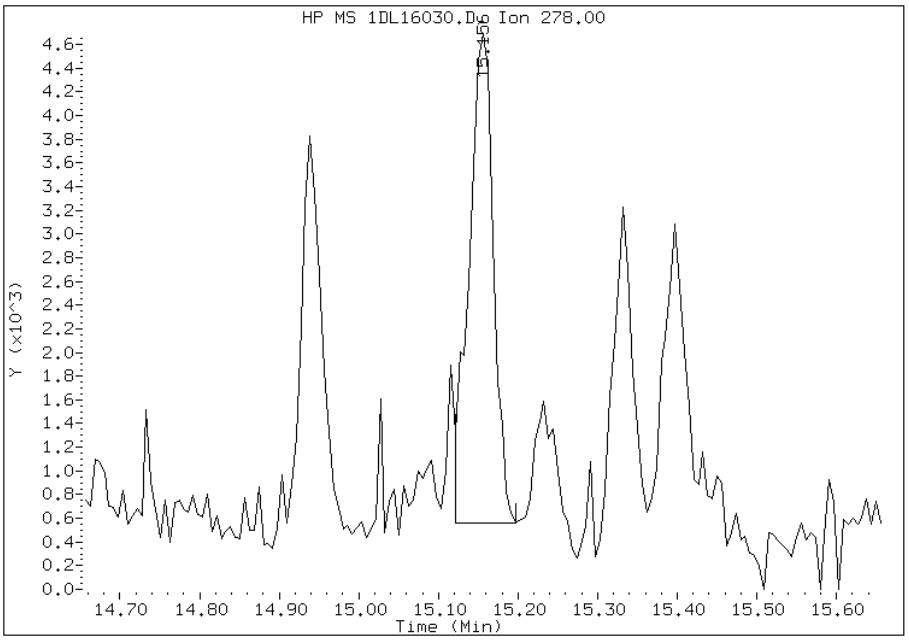
Processing Integration Results

RT: 15.16

Response: 8902

Amount: 0

Conc: 9



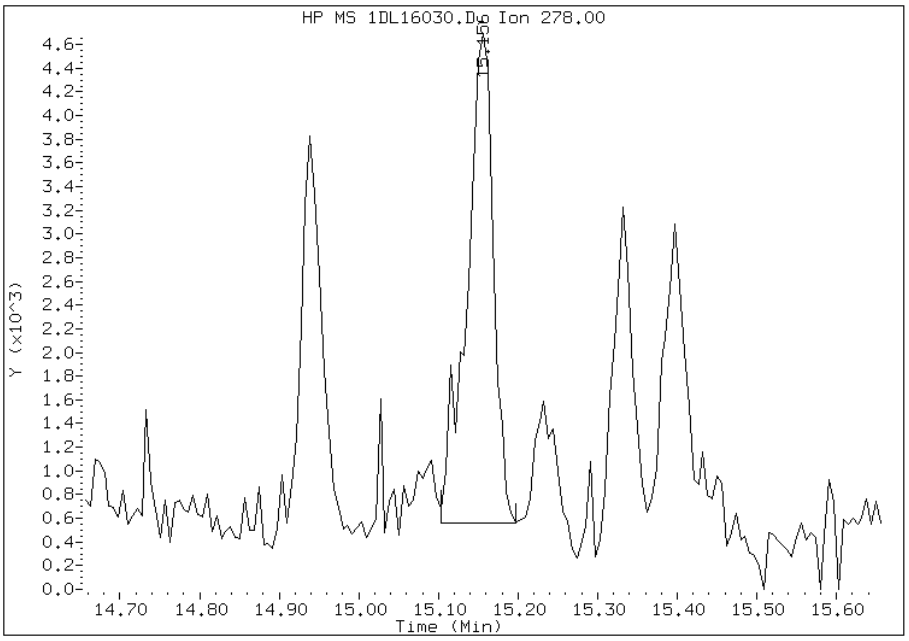

Manual Integration Results

RT: 15.16

Response: 9560

Amount: 0

Conc: 9




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL16030.D
Inj. Date and Time: 16-DEC-2012 20:51
Instrument ID: BSMSD.i
Client ID: FM0165M-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

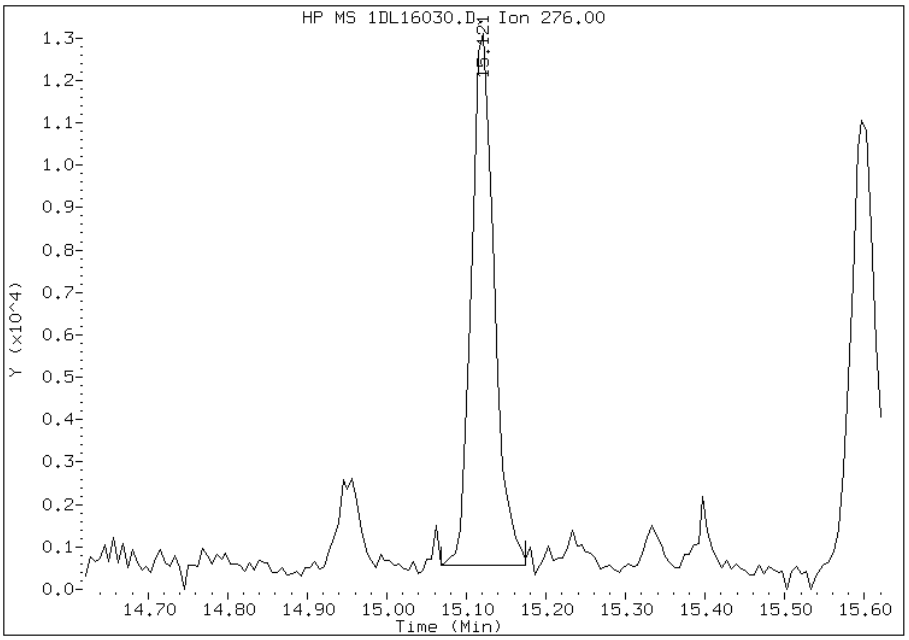
Processing Integration Results

RT: 15.12

Response: 24890

Amount: 0

Conc: 24



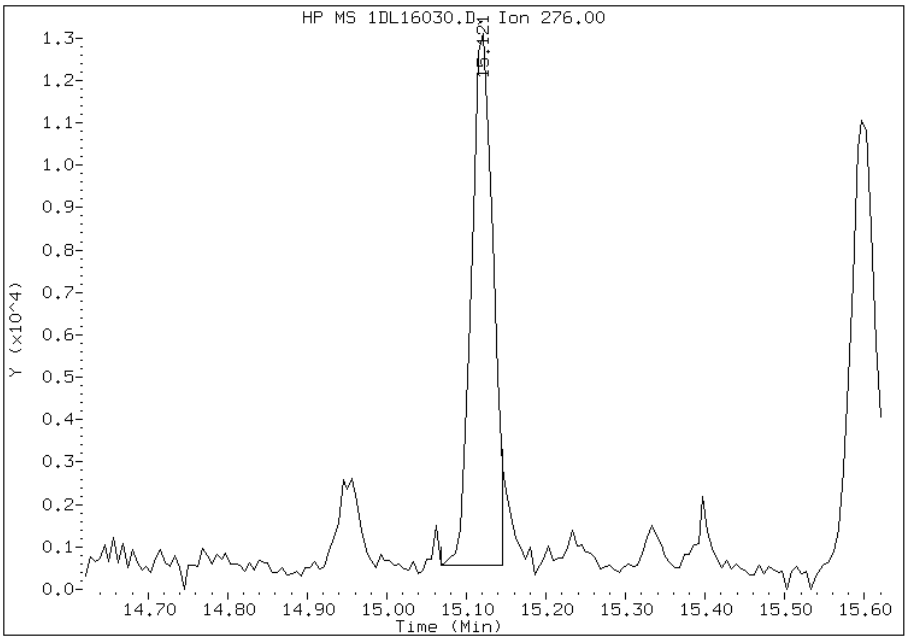

Manual Integration Results

RT: 15.12

Response: 23457

Amount: 0

Conc: 23




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 16:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165N-CS | Lab Sample ID: 680-85534-31

Matrix: Solid | Lab File ID: 1DL19005.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 10:56

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.01(g) | Date Analyzed: 12/19/2012 11:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132707 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 140 | U | 140 | 28 |
| 208-96-8 | Acenaphthylene | 12 | J | 56 | 7.1 |
| 120-12-7 | Anthracene | 23 | | 12 | 5.9 |
| 56-55-3 | Benzo[a]anthracene | 94 | | 11 | 5.5 |
| 50-32-8 | Benzo[a]pyrene | 81 | | 15 | 7.3 |
| 205-99-2 | Benzo[b]fluoranthene | 150 | | 17 | 8.6 |
| 191-24-2 | Benzo[g,h,i]perylene | 81 | | 28 | 6.2 |
| 207-08-9 | Benzo[k]fluoranthene | 46 | | 11 | 5.1 |
| 218-01-9 | Chrysene | 160 | | 13 | 6.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 27 | J | 28 | 5.8 |
| 206-44-0 | Fluoranthene | 160 | | 28 | 5.6 |
| 86-73-7 | Fluorene | 28 | U | 28 | 5.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 65 | | 28 | 10 |
| 90-12-0 | 1-Methylnaphthalene | 110 | | 56 | 6.2 |
| 91-57-6 | 2-Methylnaphthalene | 140 | | 56 | 10 |
| 91-20-3 | Naphthalene | 210 | | 56 | 6.2 |
| 85-01-8 | Phenanthrene | 200 | | 11 | 5.5 |
| 129-00-0 | Pyrene | 110 | | 28 | 5.2 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 50 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121912.b\1DL19005.D
Lab Smp Id: 680-85534-A-31-A  Client Smp ID: FM0165N-CS
Inj Date  : 19-DEC-2012 11:51
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : 680-85534-A-31-A
Misc Info : 680-85534-A-31-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121912.b\dFASTPAHi.m
Meth Date : 19-Dec-2012 11:08 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.010 | Weight Extracted |
| M | 29.181 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.266 | 6.261 | (1.000) | 3798485 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.935 | 7.930 | (1.000) | 2254623 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.192 | 9.193 | (1.000) | 3703805 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.498 | 9.499 | (1.033) | 290917 | 4.97984 | 470 |
| * 17 Chrysene-d12 | 240 | 11.560 | 11.555 | (1.000) | 3589969 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.481 | 13.470 | (1.000) | 3749804 | 40.0000 | |
| 2 Naphthalene | 128 | 6.284 | 6.285 | (1.003) | 218748 | 2.21785 | 210 |
| 3 2-Methylnaphthalene | 142 | 6.983 | 6.984 | (1.114) | 98040 | 1.53954 | 140 |
| 4 1-Methylnaphthalene | 142 | 7.071 | 7.072 | (1.128) | 71803 | 1.18933 | 110 |
| 5 Acenaphthylene | 152 | 7.800 | 7.801 | (0.983) | 12132 | 0.12318 | 12 |
| 10 Phenanthrene | 178 | 9.210 | 9.211 | (1.002) | 224247 | 2.11599 | 200 |
| 11 Anthracene | 178 | 9.245 | 9.252 | (1.006) | 26432 | 0.24878 | 23 |
| 12 Carbazole | 167 | 9.380 | 9.381 | (1.020) | 23892 | 0.25401 | 24(Q) |
| 14 Fluoranthene | 202 | 10.191 | 10.192 | (1.109) | 187332 | 1.74902 | 160 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 15 Pyrene | 202 | 10.379 | 10.380 | (0.898) | 131904 | 1.15204 | 110 |
| 16 Benzo(a)anthracene | 228 | 11.543 | 11.537 | (0.998) | 97042 | 1.00161 | 94 |
| 18 Chrysene | 228 | 11.584 | 11.584 | (1.002) | 170844 | 1.67980 | 160 |
| 19 Benzo(b)fluoranthene | 252 | 12.900 | 12.900 | (0.957) | 150509 | 1.63532 | 150 |
| 20 Benzo(k)fluoranthene | 252 | 12.935 | 12.942 | (0.959) | 50123 | 0.49153 | 46 |
| 21 Benzo(a)pyrene | 252 | 13.364 | 13.370 | (0.991) | 78766 | 0.85772 | 81 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.127 | 15.121 | (1.122) | 63013 | 0.69571 | 65(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.156 | 15.162 | (1.124) | 25478 | 0.28657 | 27 |
| 25 Benzo(g,h,i)perylene | 276 | 15.614 | 15.603 | (1.158) | 79990 | 0.85785 | 81 |

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DL19005.D

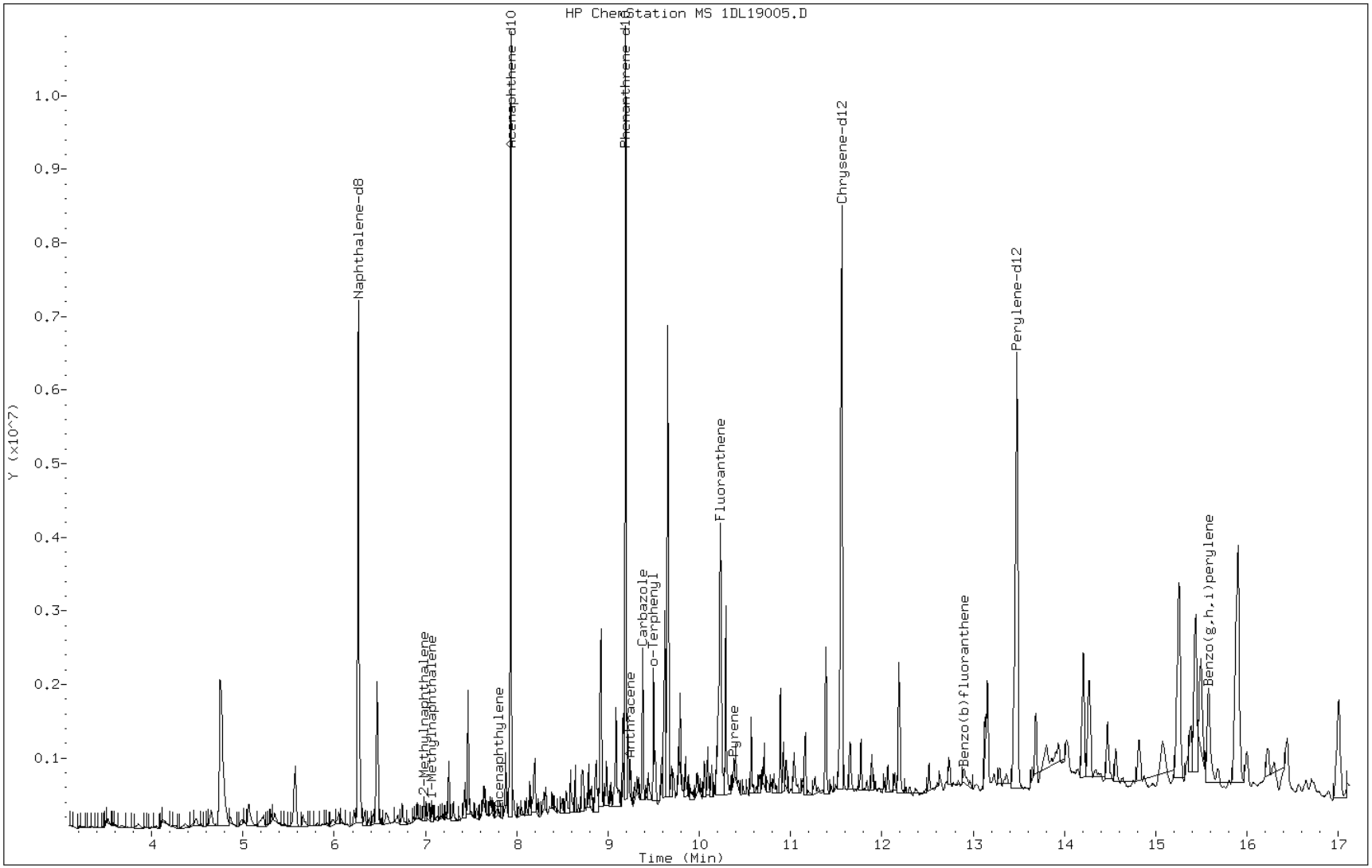
Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS

Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A

Operator: SCC



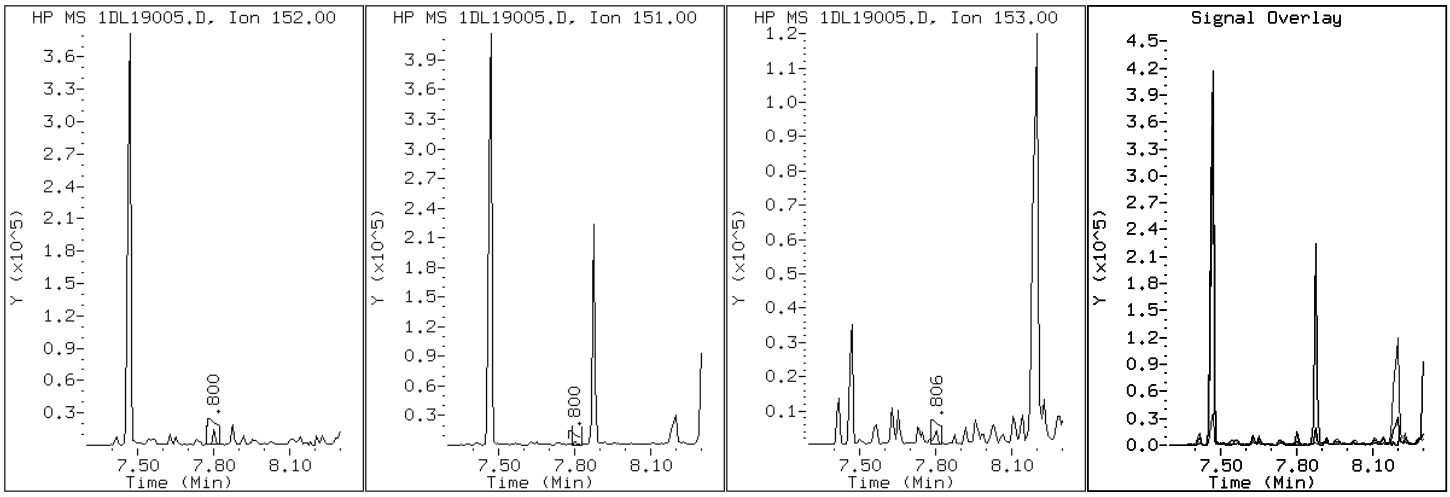
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

5 Acenaphthylene



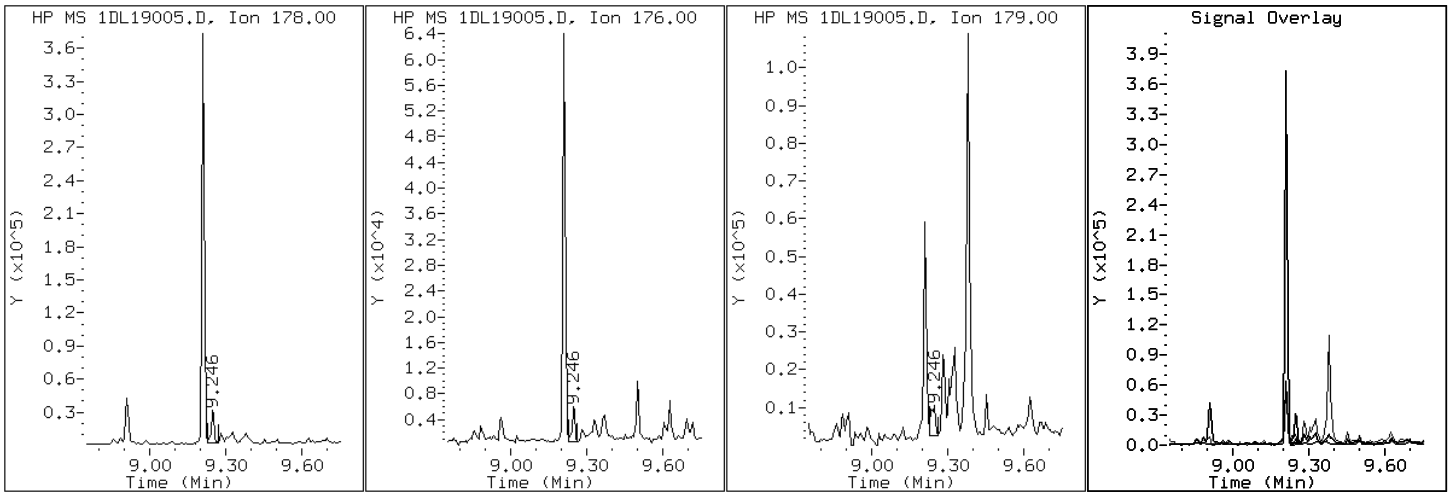
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

11 Anthracene



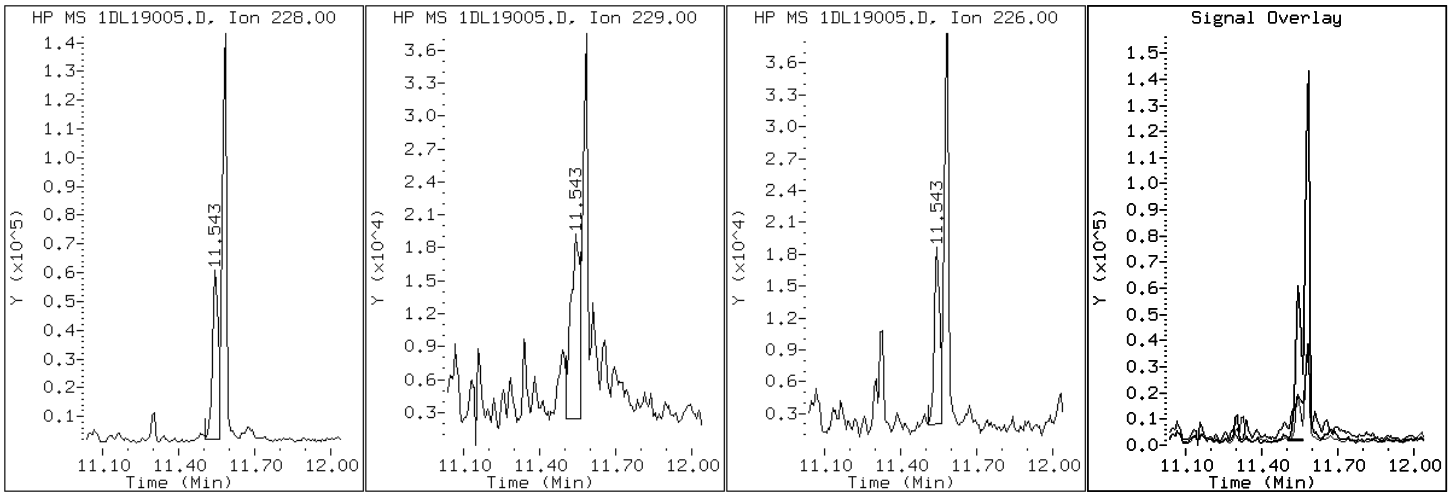
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

16 Benzo(a)anthracene



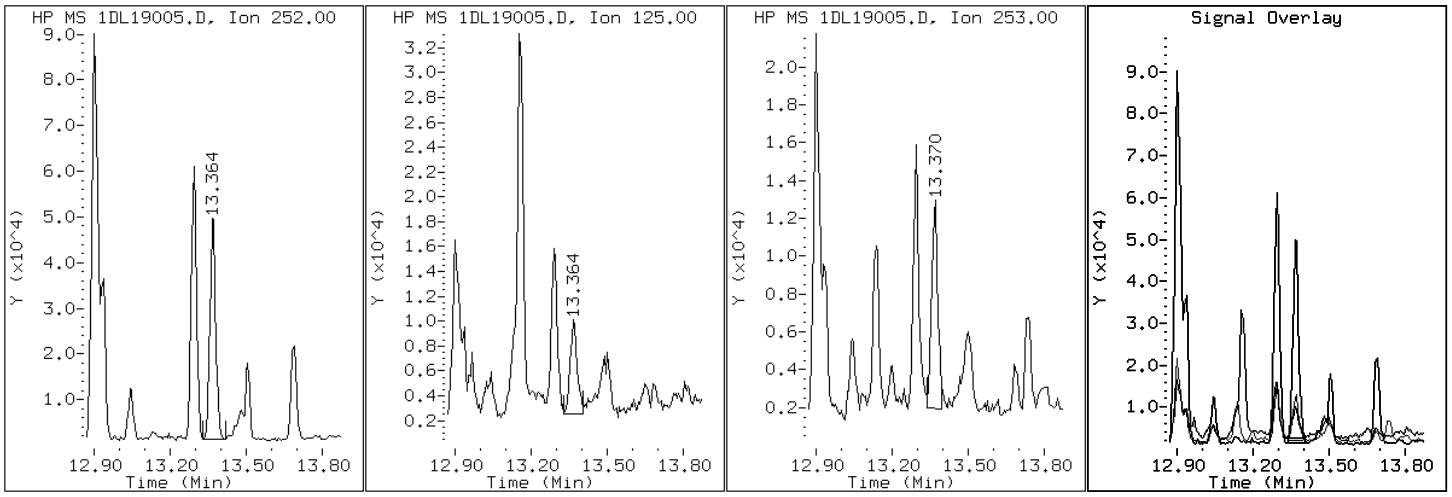
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

21 Benzo(a)pyrene



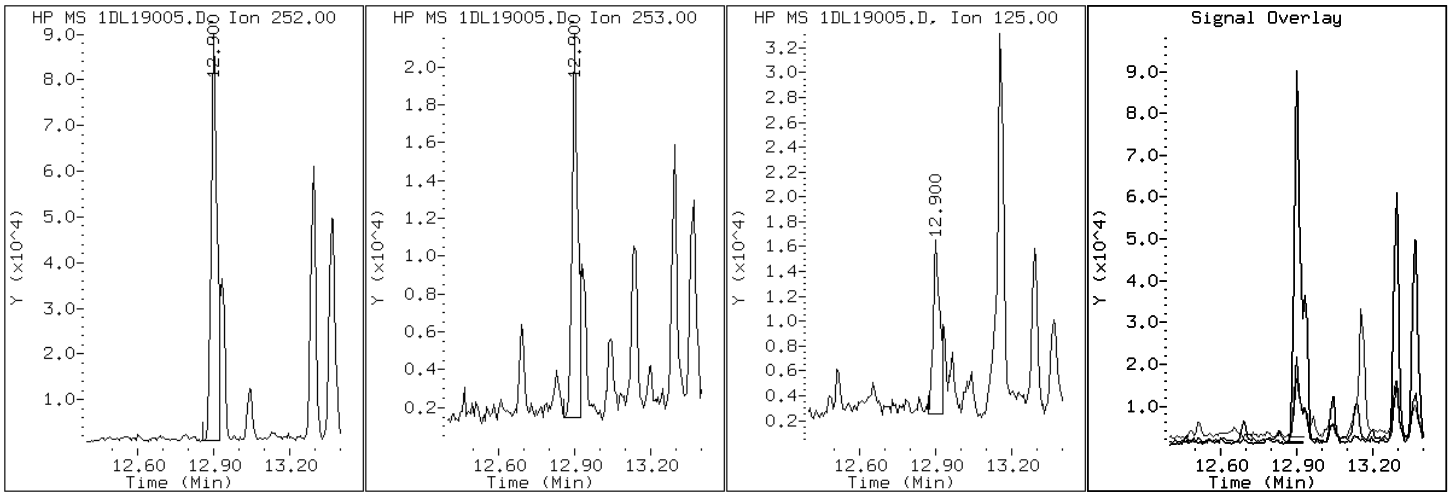
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

19 Benzo(b)fluoranthene



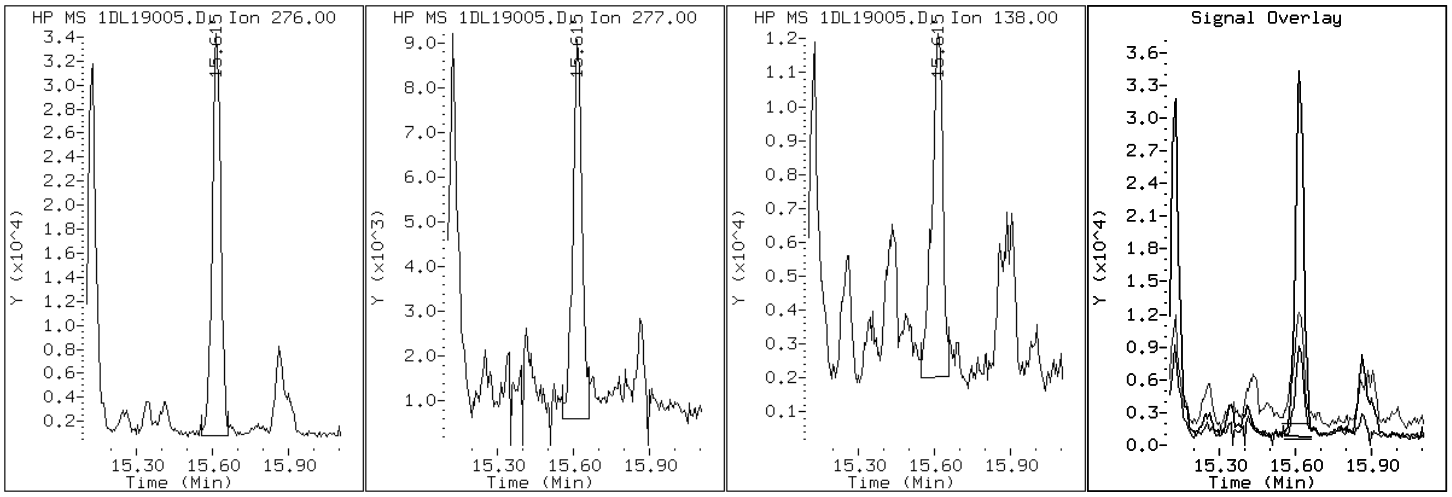
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

25 Benzo(g,h,i)perylene



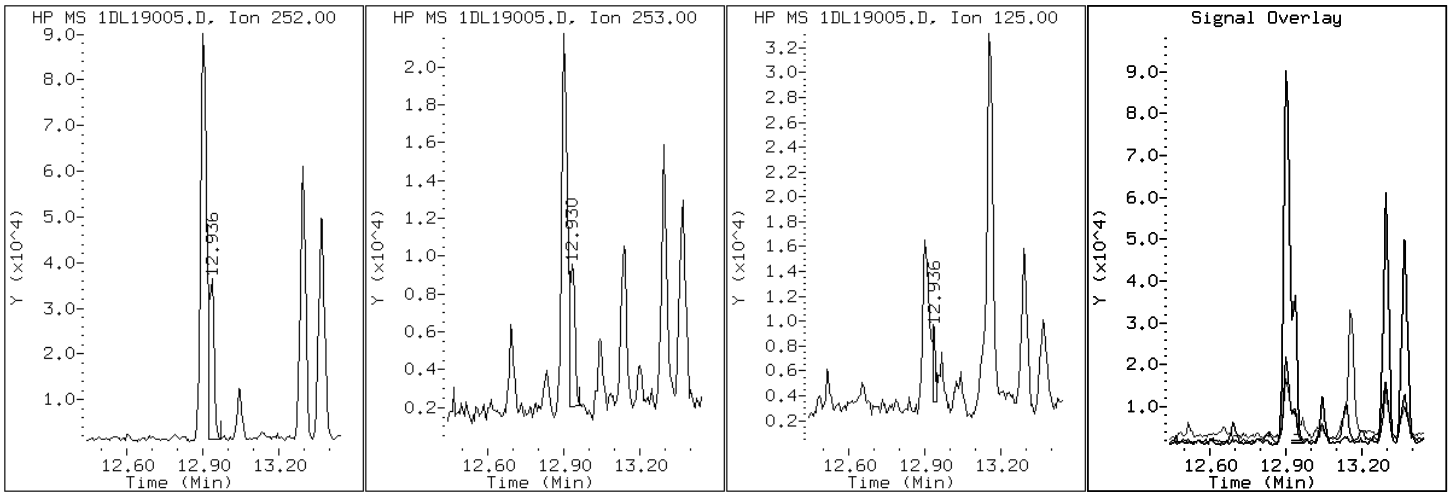
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

20 Benzo(k)fluoranthene



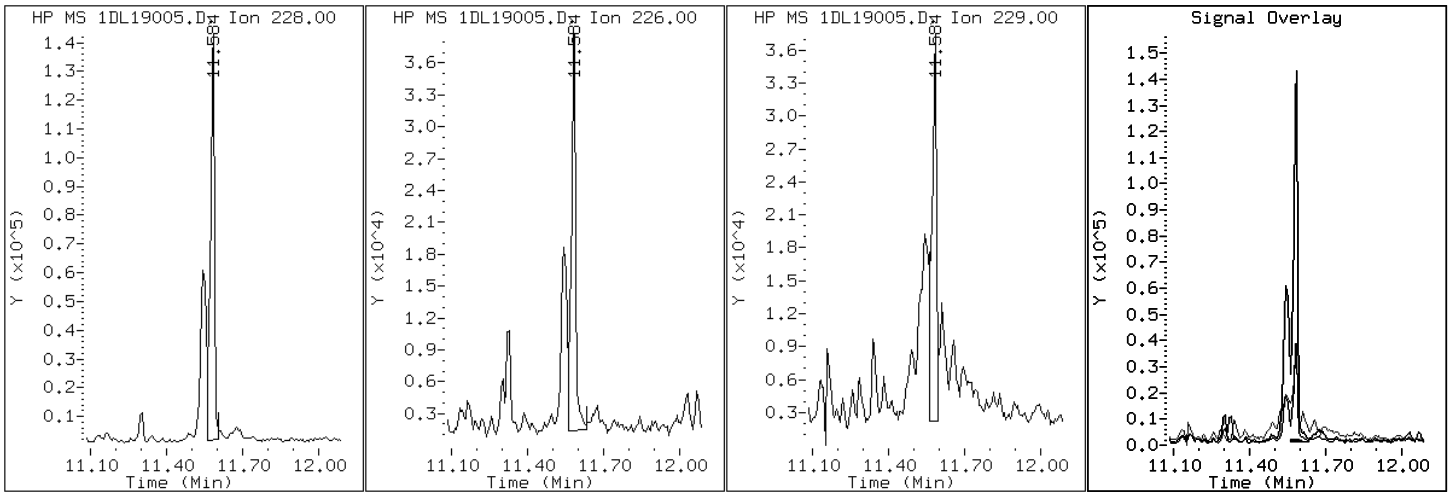
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

18 Chrysene



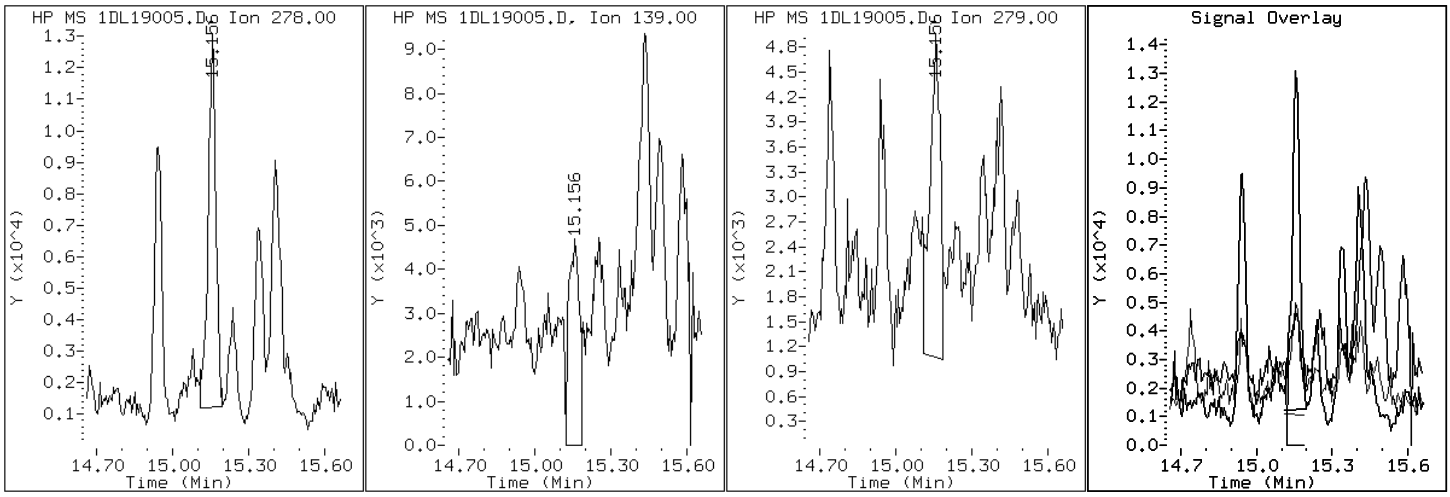
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

24 Dibenzo(a,h)anthracene



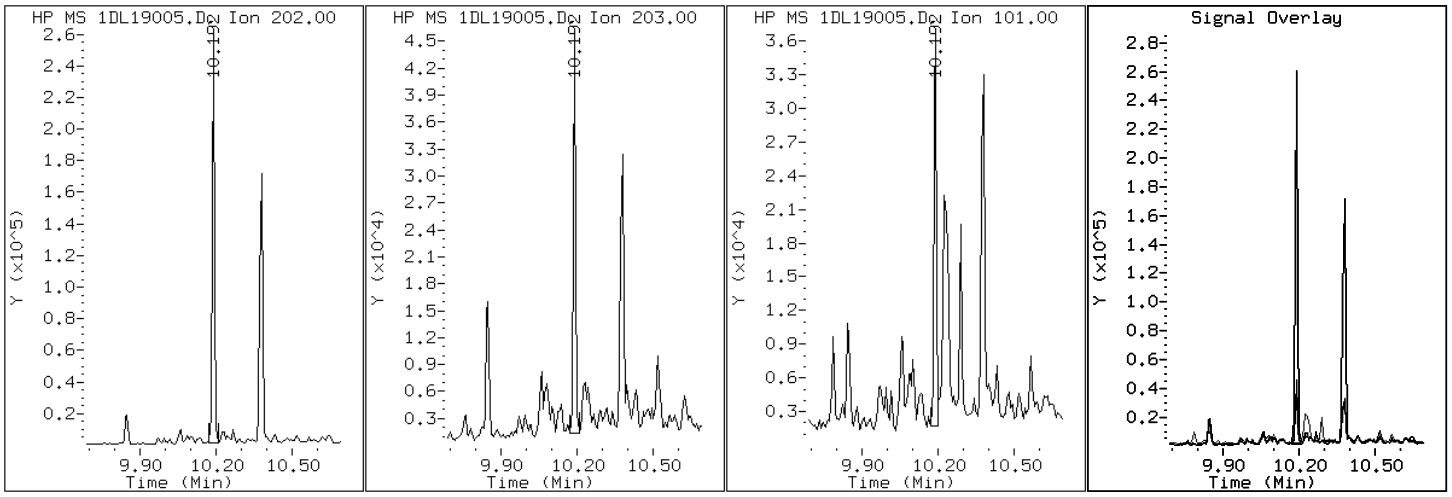
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

14 Fluoranthene



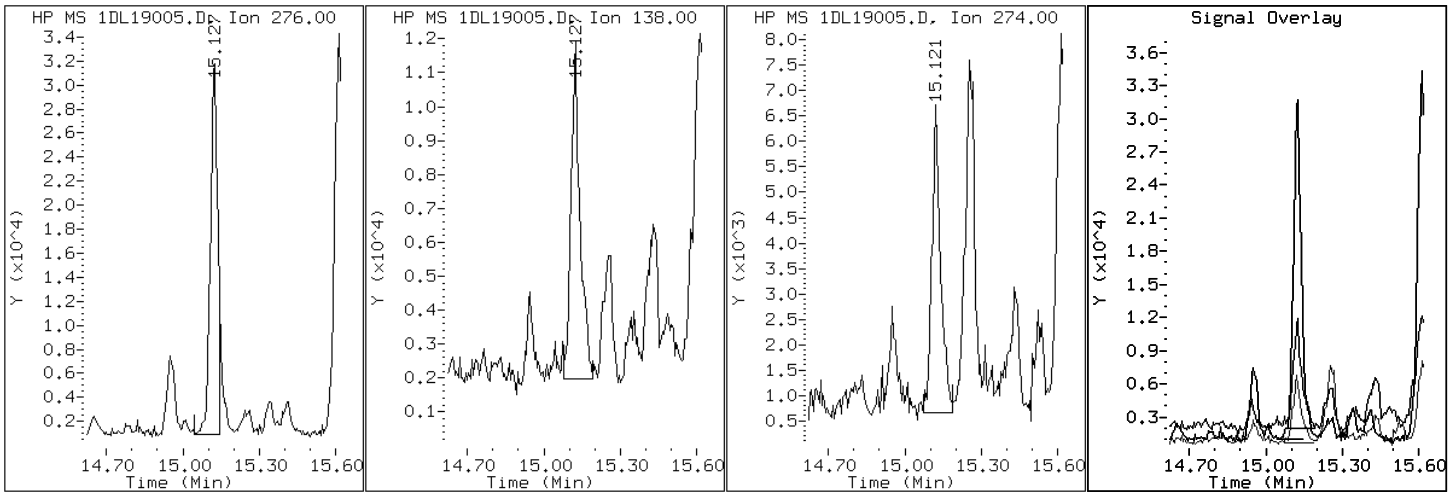
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



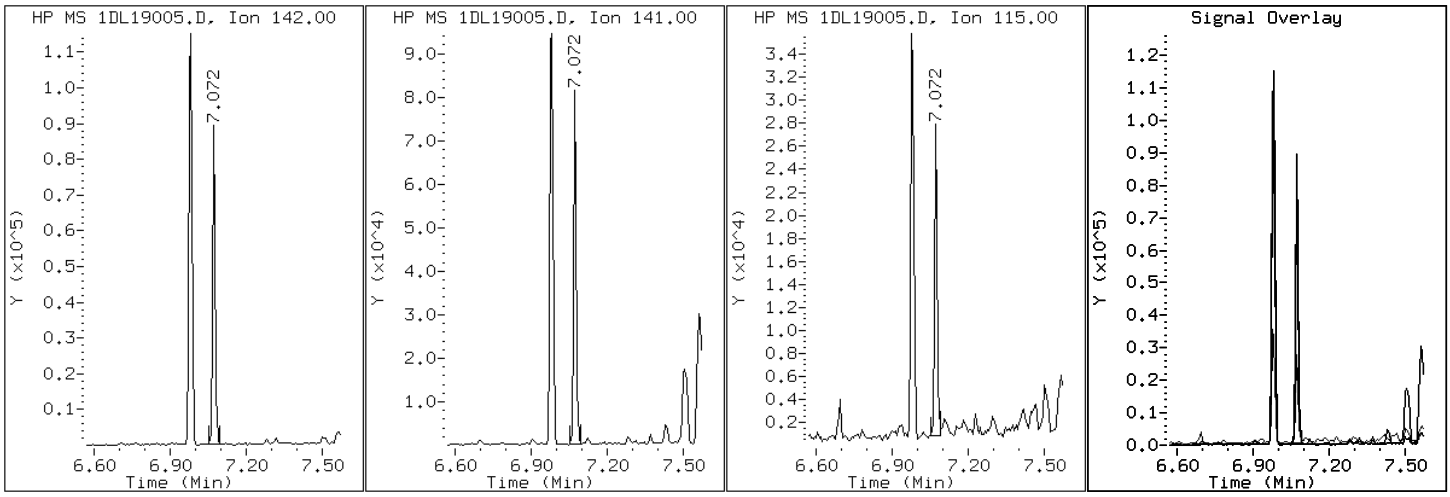
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

4 1-Methylnaphthalene



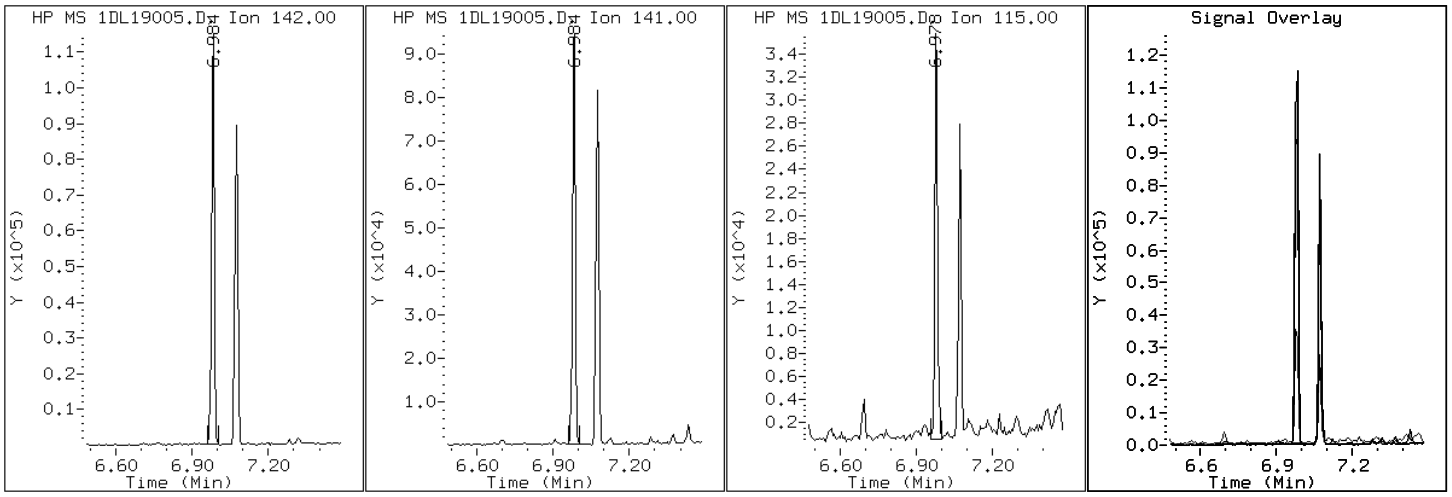
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

3 2-Methylnaphthalene



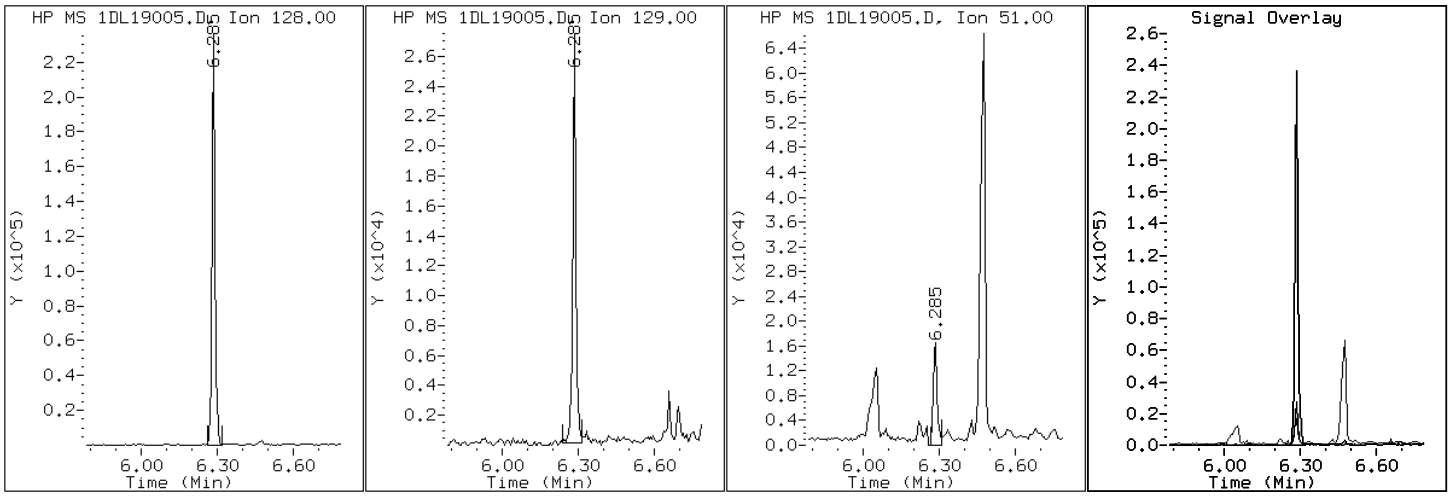
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

2 Naphthalene



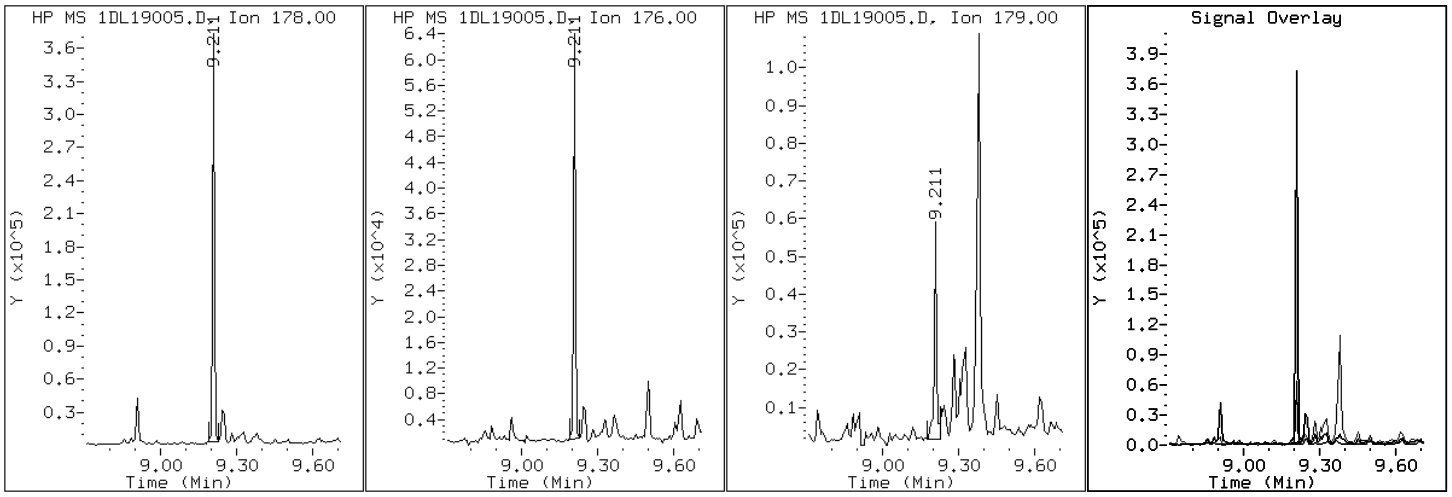
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

10 Phenanthrene



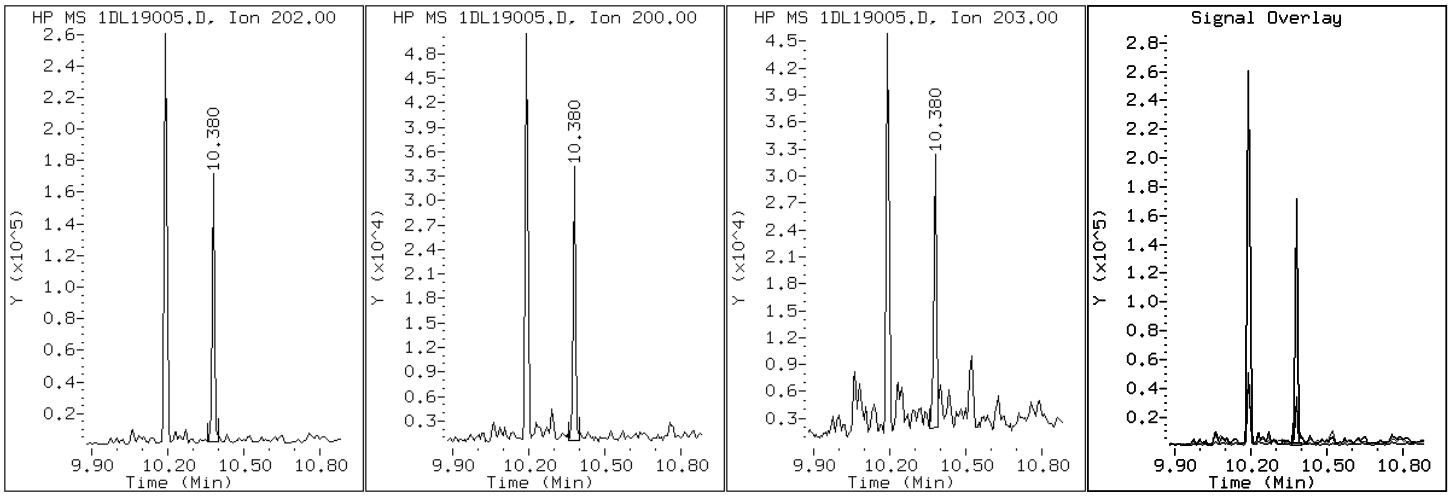
Data File: 1DL19005.D

Date: 19-DEC-2012 11:51

Client ID: FM0165N-CS Instrument: BSMSD.i

Sample Info: 680-85534-A-31-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DL19005.D
Inj. Date and Time: 19-DEC-2012 11:51
Instrument ID: BSMSD.i
Client ID: FM0165N-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/19/2012

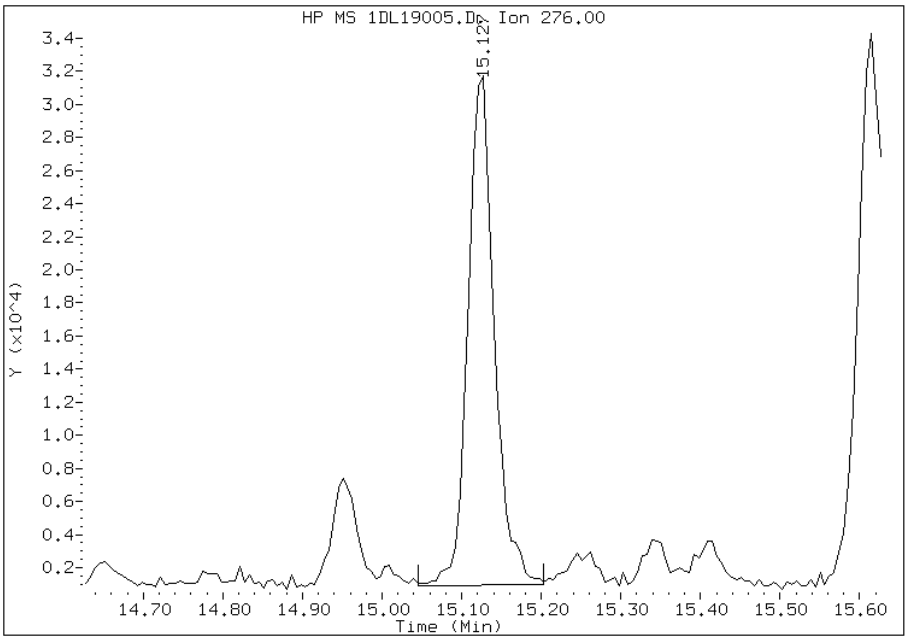
Processing Integration Results

RT: 15.13

Response: 70510

Amount: 1

Conc: 73



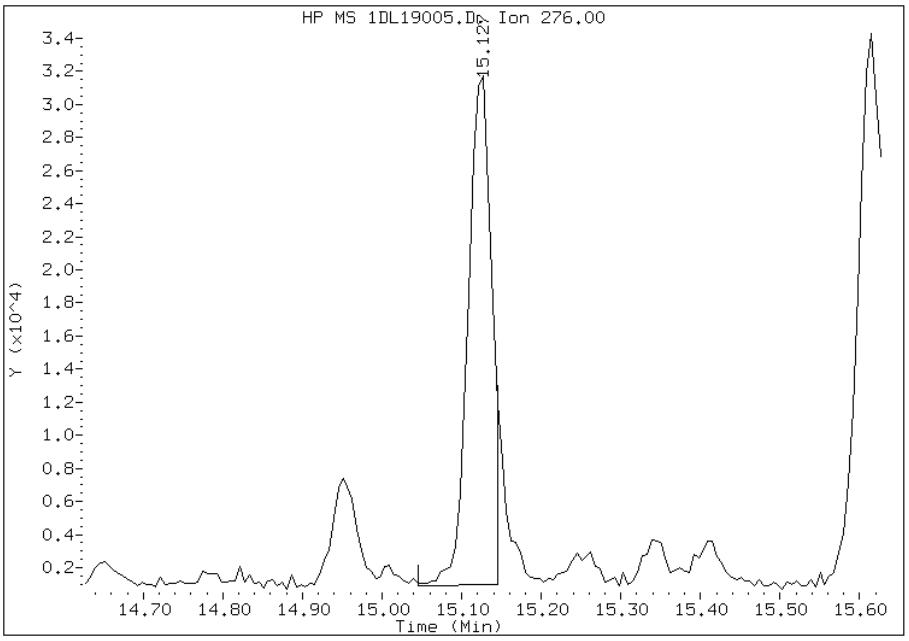

Manual Integration Results

RT: 15.13

Response: 63013

Amount: 1

Conc: 65




Manually Integrated By: cantins
Modification Date: 19-Dec-2012 12:23
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131833

SDG No.: 68085534-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/26/2012 13:48 Calibration End Date: 11/26/2012 15:20 Calibration ID: 2567

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 660-131833/3 | 1AK26003.D |
| Level 2 | IC 660-131833/4 | 1AK26004.D |
| Level 3 | IC 660-131833/5 | 1AK26005.D |
| Level 4 | IC 660-131833/6 | 1AK26006.D |
| Level 5 | ICIS 660-131833/7 | 1AK26007.D |
| Level 6 | IC 660-131833/8 | 1AK26008.D |
| Level 7 | IC 660-131833/9 | 1AK26009.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Naphthalene | 0.9858<br>0.9773 | 0.9146<br>1.0181 | 0.9470 | 0.9582 | 0.9411 | Ave | | 0.9631 | | | 0.0000 | 3.5 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.5830<br>0.5560 | 0.5575<br>0.5488 | 0.5368 | 0.5275 | 0.5264 | Ave | | 0.5480 | | | 0.0000 | 3.6 | | 15.0 | | | |
| 1-Methylnaphthalene | 0.5399<br>0.5926 | 0.5467<br>0.5861 | 0.5843 | 0.5796 | 0.5802 | Ave | | 0.5728 | | | 0.0000 | 3.6 | | 15.0 | | | |
| Acenaphthylene | 1.5327<br>1.8068 | 1.5663<br>1.8444 | 1.6504 | 1.6582 | 1.7308 | Ave | | 1.6842 | | | 0.0000 | 6.9 | | 15.0 | | | |
| Acenaphthene | 1.0935<br>0.9608 | 0.8574<br>0.9866 | 0.8941 | 0.8984 | 0.9376 | Ave | | 0.9469 | | | 0.0000 | 8.2 | | 15.0 | | | |
| Fluorene | 1.3908<br>1.1725 | 1.0457<br>1.1936 | 1.0374 | 1.0795 | 1.1181 | Ave | | 1.1482 | | | 0.0000 | 10.7 | | 15.0 | | | |
| Phenanthrene | 1.1941<br>0.9965 | 1.0294<br>1.0213 | 0.9931 | 0.9982 | 0.9599 | Ave | | 1.0275 | | | 0.0000 | 7.5 | | 15.0 | | | |
| Anthracene | 1.1293<br>1.0094 | 0.9509<br>1.0216 | 1.0078 | 0.9713 | 0.9791 | Ave | | 1.0099 | | | 0.0000 | 5.8 | | 15.0 | | | |
| Carbazole | 1.0048<br>0.8570 | 0.8301<br>0.8809 | 0.8587 | 0.8708 | 0.8283 | Ave | | 0.8758 | | | 0.0000 | 6.9 | | 15.0 | | | |
| Fluoranthene | 1.1640<br>1.0980 | 0.9574<br>1.1289 | 1.0646 | 1.0824 | 1.0690 | Ave | | 1.0806 | | | 0.0000 | 6.0 | | 15.0 | | | |
| Pyrene | 1.1171<br>1.2125 | 1.0760<br>1.2385 | 1.2129 | 1.2012 | 1.1920 | Ave | | 1.1786 | | | 0.0000 | 5.0 | | 15.0 | | | |
| Benzo[a]anthracene | 1.8065<br>1.0831 | 1.0974<br>1.0700 | 1.0798 | 1.0621 | 1.0446 | LinF | | 1.0704 | | | 0.0000 | | | | 0.9998 | | 0.9900 |
| Chrysene | 1.2263<br>1.0065 | 1.1026<br>0.9963 | 0.9891 | 0.9728 | 0.9839 | Ave | | 1.0396 | | | 0.0000 | 8.9 | | 15.0 | | | |
| Benzo[b]fluoranthene | 1.0120<br>1.2046 | 0.8500<br>1.1313 | 1.0654 | 1.0389 | 1.1149 | Ave | | 1.0596 | | | 0.0000 | 10.6 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131833

SDG No.: 68085534-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/26/2012 13:48 Calibration End Date: 11/26/2012 15:20 Calibration ID: 2567

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Benzo[k]fluoranthene | 1.1810<br>1.1566 | 1.1085<br>1.1726 | 1.0985 | 1.1598 | 1.1656 | Ave | | 1.1490 | | | 0.0000 | 2.8 | | 15.0 | | | |
| Benzo[a]pyrene | 1.0162<br>1.0701 | 0.9238<br>1.0665 | 0.9727 | 1.0087 | 1.0258 | Ave | | 1.0120 | | | 0.0000 | 5.1 | | 15.0 | | | |
| Indeno[1,2,3-cd]pyrene | 0.7546<br>1.0564 | 0.7664<br>1.0927 | 0.9002 | 0.9761 | 0.9655 | Ave | | 0.9303 | | | 0.0000 | 14.2 | | 15.0 | | | |
| Dibenz(a,h)anthracene | 0.6232<br>0.9220 | 0.7459<br>0.9629 | 0.8840 | 0.8636 | 0.8465 | Ave | | 0.8354 | | | 0.0000 | 13.8 | | 15.0 | | | |
| Benzo[g,h,i]perylene | 0.9279<br>0.9438 | 0.8363<br>1.0026 | 0.9446 | 0.9436 | 0.9113 | Ave | | 0.9300 | | | 0.0000 | 5.4 | | 15.0 | | | |
| o-Terphenyl | 0.7091<br>0.5507 | 0.5777<br>0.5941 | 0.6079 | 0.5614 | 0.5508 | Ave | | 0.5931 | | | 0.0000 | 9.4 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131833

SDG No.: 68085534-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/26/2012 13:48 Calibration End Date: 11/26/2012 15:20 Calibration ID: 2567

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 660-131833/3 | 1AK26003.D |
| Level 2 | IC 660-131833/4 | 1AK26004.D |
| Level 3 | IC 660-131833/5 | 1AK26005.D |
| Level 4 | IC 660-131833/6 | 1AK26006.D |
| Level 5 | ICIS 660-131833/7 | 1AK26007.D |
| Level 6 | IC 660-131833/8 | 1AK26008.D |
| Level 7 | IC 660-131833/9 | 1AK26009.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Naphthalene | NPT | Ave | 4117<br>640397 | 20945<br>1115863 | 102718 | 207277 | 408858 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| 2-Methylnaphthalene | NPT | Ave | 2435<br>364351 | 12768<br>601538 | 58226 | 114111 | 228668 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| 1-Methylnaphthalene | NPT | Ave | 2255<br>388327 | 12521<br>642452 | 63377 | 125372 | 252046 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Acenaphthylene | ANT | Ave | 3856<br>659152 | 22084<br>1096161 | 105700 | 210891 | 418422 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Acenaphthene | ANT | Ave | 2751<br>350528 | 12089<br>586356 | 57263 | 114260 | 226674 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Fluorene | ANT | Ave | 3499<br>427737 | 14744<br>709391 | 66443 | 137290 | 270303 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Phenanthrene | PHN | Ave | 4604<br>589151 | 22116<br>938445 | 91744 | 189359 | 372734 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Anthracene | PHN | Ave | 4354<br>596817 | 20430<br>938735 | 93104 | 184249 | 380192 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Carbazole | PHN | Ave | 3874<br>506682 | 17834<br>809424 | 79324 | 165192 | 321620 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Fluoranthene | PHN | Ave | 4488<br>649184 | 20569<br>1037328 | 98343 | 205330 | 415106 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Pyrene | CRY | Ave | 4194<br>669312 | 22320<br>1083900 | 109127 | 218856 | 440826 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[a]anthracene | CRY | LinF | 6782<br>597908 | 22764<br>936357 | 97156 | 193510 | 386316 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Chrysene | CRY | Ave | 4604<br>555590 | 22871<br>871883 | 88998 | 177247 | 363848 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[b]fluoranthene | PRY | Ave | 3826<br>609369 | 17410<br>965364 | 94083 | 182583 | 373412 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[k]fluoranthene | PRY | Ave | 4465<br>585103 | 22704<br>1000638 | 97008 | 203838 | 390377 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131833

SDG No.: 68085534-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/26/2012 13:48 Calibration End Date: 11/26/2012 15:20 Calibration ID: 2567

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Benzo[a]pyrene | PRY | Ave | 3842<br>541303 | 18921<br>910090 | 85899 | 177282 | 343556 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Indeno[1,2,3-cd]pyrene | PRY | Ave | 2853<br>534416 | 15698<br>932472 | 79490 | 171545 | 323358 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Dibenz(a,h)anthracene | PRY | Ave | 2356<br>466402 | 15278<br>821682 | 78063 | 151784 | 283508 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[g,h,i]perylene | PRY | Ave | 3508<br>477452 | 17129<br>855522 | 83414 | 165830 | 305232 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| o-Terphenyl | PHN | Ave | 2734<br>325611 | 12412<br>545894 | 56153 | 106497 | 213882 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26003.D
Lab Smp Id: IC-1473020
Inj Date : 26-NOV-2012 13:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1473020
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:56 BSMA5973.i Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.772 | 2.773 | (1.000) | 835278 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.814 | 3.814 | (1.000) | 503158 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.808 | 4.813 | (1.000) | 771126 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.101 | 5.107 | (1.061) | 2734 | 0.20000 | 0.2391 |
| * 18 Chrysene-d12 | 240 | 6.880 | 6.886 | (1.000) | 750849 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.992 | 7.992 | (1.000) | 756136 | 40.0000 | |
| 2 Naphthalene | 128 | 2.783 | 2.783 | (1.004) | 4117 | 0.20000 | 0.2046 |
| 3 2-Methylnaphthalene | 141 | 3.189 | 3.189 | (1.150) | 2435 | 0.20000 | 0.2129 |
| 4 1-Methylnaphthalene | 142 | 3.242 | 3.248 | (1.170) | 2255 | 0.20000 | 0.1840 |
| 5 Acenaphthylene | 152 | 3.723 | 3.723 | (0.976) | 3856 | 0.20000 | 0.1820 |
| 7 Acenaphthene | 154 | 3.830 | 3.836 | (1.004) | 2751 | 0.20000 | 0.2246 |
| 9 Fluorene | 166 | 4.161 | 4.161 | (1.091) | 3499 | 0.20000 | 0.2422 |
| 11 Phenanthrene | 178 | 4.824 | 4.829 | (1.003) | 4604 | 0.20000 | 0.2324 |
| 12 Anthracene | 178 | 4.856 | 4.861 | (1.010) | 4354 | 0.20000 | 0.2236 |
| 13 Carbazole | 167 | 4.989 | 4.995 | (1.038) | 3874 | 0.20000 | 0.2294 |
| 15 Fluoranthene | 202 | 5.716 | 5.721 | (1.189) | 4488 | 0.20000 | 0.2154 |
| 16 Pyrene | 202 | 5.892 | 5.892 | (0.856) | 4194 | 0.20000 | 0.1895 |
| 17 Benzo(a)anthracene | 228 | 6.870 | 6.870 | (0.998) | 6782 | 0.20000 | 0.3067 |
| 19 Chrysene | 228 | 6.896 | 6.902 | (1.002) | 4604 | 0.20000 | 0.2359 |
| 20 Benzo(b)fluoranthene | 252 | 7.698 | 7.703 | (0.963) | 3826 | 0.20000 | 0.1910 |
| 21 Benzo(k)fluoranthene | 252 | 7.724 | 7.725 | (0.967) | 4465 | 0.20000 | 0.2023 |
| 22 Benzo(a)pyrene | 252 | 7.938 | 7.938 | (0.993) | 3842 | 0.20000 | 0.2008 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.926 | 8.932 | (1.117) | 2853 | 0.20000 | 0.1583 |
| 25 Dibenzo(a,h)anthracene | 278 | 8.953 | 8.959 | (1.120) | 2356 | 0.20000 | 0.1491(M) |
| 26 Benzo(g,h,i)perylene | 276 | 9.204 | 9.215 | (1.152) | 3508 | 0.20000 | 0.1995(M) |

QC Flag Legend

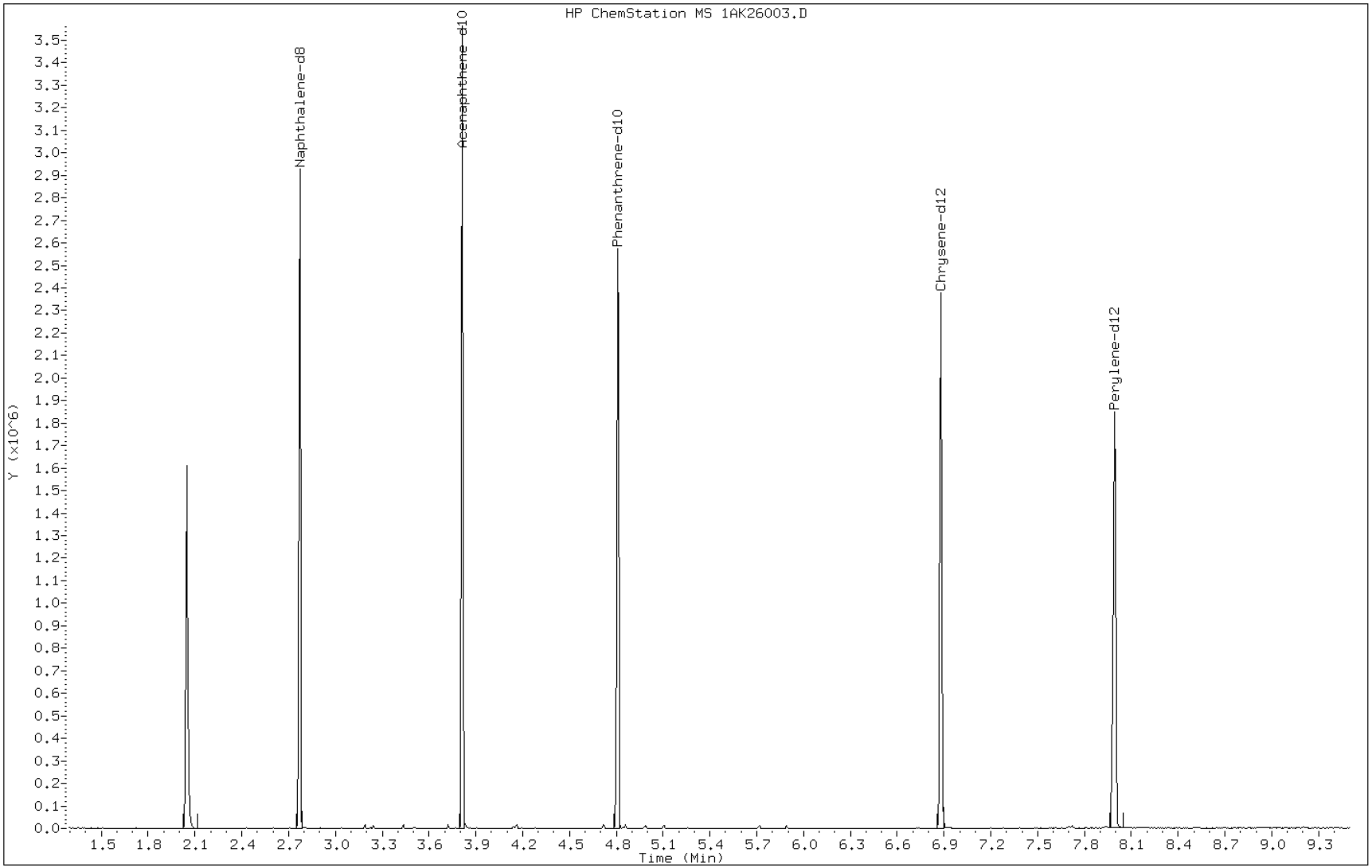
M - Compound response manually integrated.

Data File: 1AK26003.D

Date: 26-NOV-2012 13:48

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1473020 Operator: SCC



Manual Integration Report

Data File: 1AK26003.D
Inj. Date and Time: 26-NOV-2012 13:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/27/2012

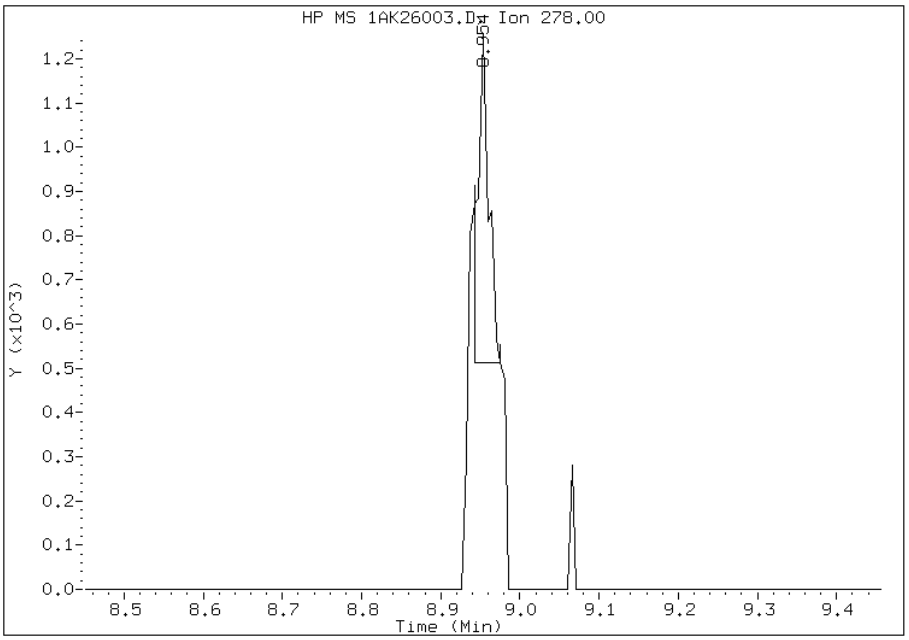
Processing Integration Results

RT: 8.95

Response: 703

Amount: 0

Conc: 0



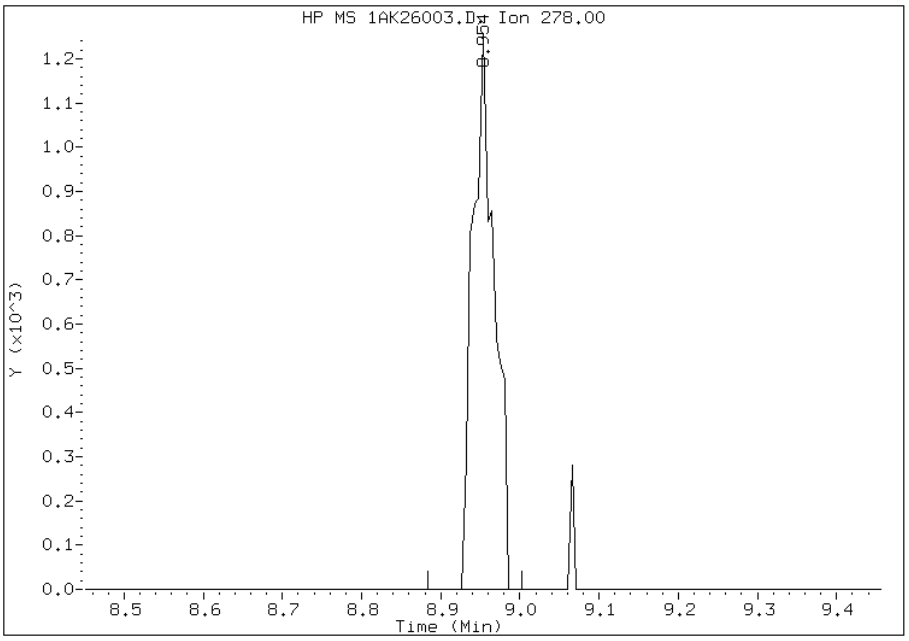

Manual Integration Results

RT: 8.95

Response: 2356

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AK26003.D
Inj. Date and Time: 26-NOV-2012 13:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/27/2012

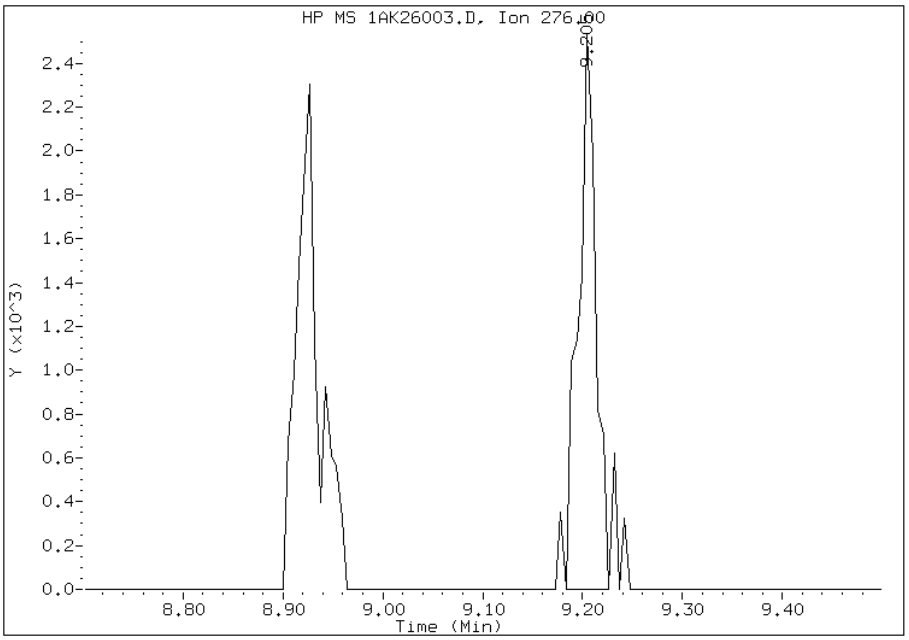
Processing Integration Results

RT: 9.20

Response: 3091

Amount: 0

Conc: 0



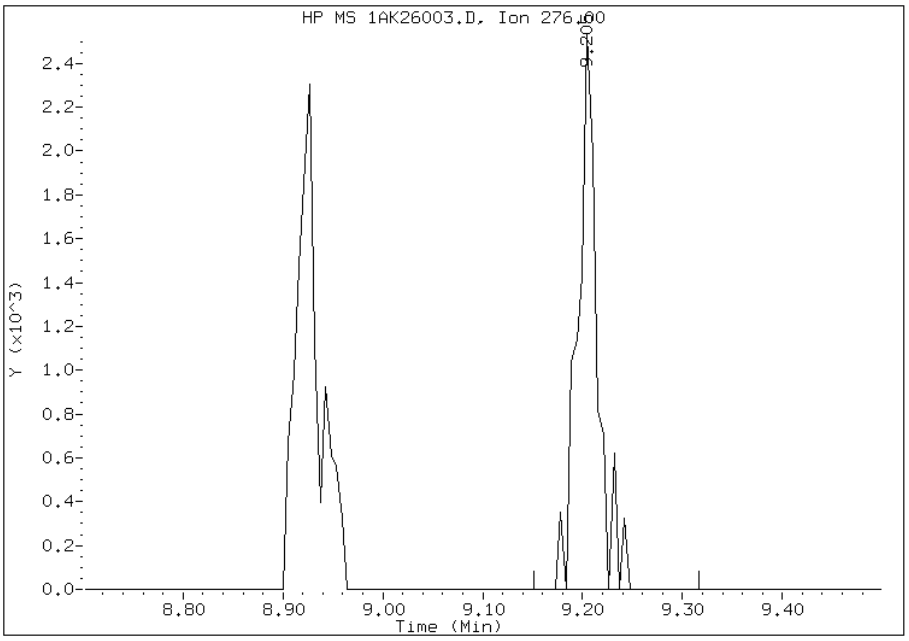

Manual Integration Results

RT: 9.20

Response: 3508

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:52
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26004.D
Lab Smp Id: IC-1473021
Inj Date : 26-NOV-2012 14:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1473021
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:56 BSMA5973.i Quant Type: ISTD
Cal Date : 26-NOV-2012 13:48 Cal File: 1AK26003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.770 | 2.773 | (1.000) | 916044 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.812 | 3.814 | (1.000) | 563969 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.811 | 4.813 | (1.000) | 859412 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.105 | 5.107 | (1.061) | 12412 | 1.00000 | 0.9740 |
| * 18 Chrysene-d12 | 240 | 6.884 | 6.886 | (1.000) | 829721 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.995 | 7.992 | (1.000) | 819285 | 40.0000 | |
| 2 Naphthalene | 128 | 2.781 | 2.783 | (1.004) | 20945 | 1.00000 | 0.9495 |
| 3 2-Methylnaphthalene | 141 | 3.187 | 3.189 | (1.150) | 12768 | 1.00000 | 1.0179 |
| 4 1-Methylnaphthalene | 142 | 3.246 | 3.248 | (1.172) | 12521 | 1.00000 | 0.9316 |
| 5 Acenaphthylene | 152 | 3.721 | 3.723 | (0.976) | 22084 | 1.00000 | 0.9299 |
| 7 Acenaphthene | 154 | 3.833 | 3.836 | (1.006) | 12089 | 1.00000 | 0.8809 |
| 9 Fluorene | 166 | 4.159 | 4.161 | (1.091) | 14744 | 1.00000 | 0.9107 |
| 11 Phenanthrene | 178 | 4.822 | 4.829 | (1.002) | 22116 | 1.00000 | 1.0018 |
| 12 Anthracene | 178 | 4.859 | 4.861 | (1.010) | 20430 | 1.00000 | 0.9415 |
| 13 Carbazole | 167 | 4.993 | 4.995 | (1.038) | 17834 | 1.00000 | 0.9477 |
| 15 Fluoranthene | 202 | 5.714 | 5.721 | (1.188) | 20569 | 1.00000 | 0.8859 |
| 16 Pyrene | 202 | 5.890 | 5.892 | (0.856) | 22320 | 1.00000 | 0.9129 |
| 17 Benzo(a)anthracene | 228 | 6.868 | 6.870 | (0.998) | 22764 | 1.00000 | 0.9318 |
| 19 Chrysene | 228 | 6.900 | 6.902 | (1.002) | 22871 | 1.00000 | 1.0605 |
| 20 Benzo(b)fluoranthene | 252 | 7.701 | 7.703 | (0.963) | 17410 | 1.00000 | 0.8022 |
| 21 Benzo(k)fluoranthene | 252 | 7.717 | 7.725 | (0.965) | 22704 | 1.00000 | 0.9494 |
| 22 Benzo(a)pyrene | 252 | 7.936 | 7.938 | (0.993) | 18921 | 1.00000 | 0.9128 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.919 | 8.932 | (1.116) | 15698 | 1.00000 | 0.8029(H) |
| 25 Dibenzo(a,h)anthracene | 278 | 8.951 | 8.959 | (1.120) | 15278 | 1.00000 | 0.8928(M) |
| 26 Benzo(g,h,i)perylene | 276 | 9.202 | 9.215 | (1.151) | 17129 | 1.00000 | 0.8992 |

QC Flag Legend

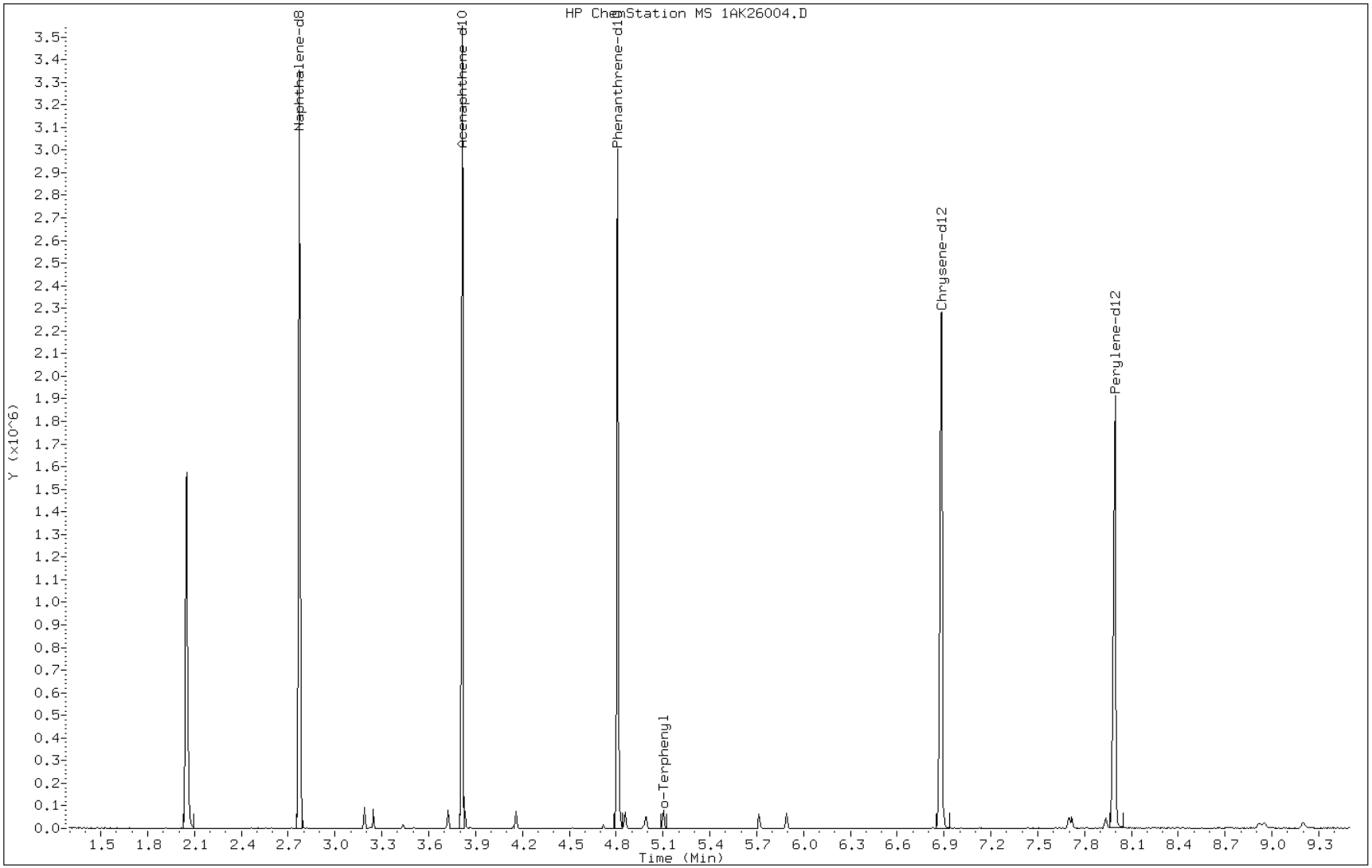
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AK26004.D

Date: 26-NOV-2012 14:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1473021 Operator: SCC



Manual Integration Report

Data File: 1AK26004.D
Inj. Date and Time: 26-NOV-2012 14:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/27/2012

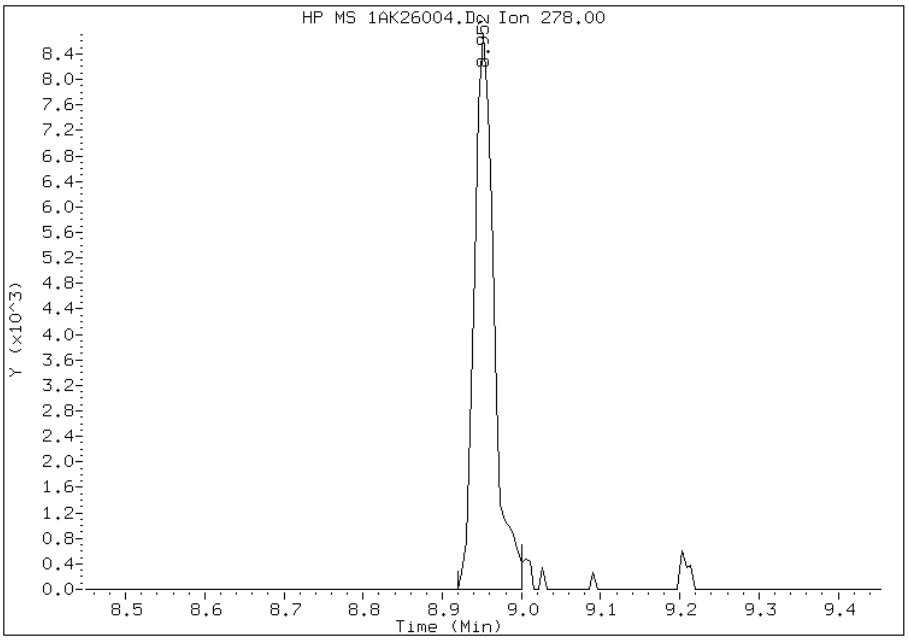
Processing Integration Results

RT: 8.95

Response: 14988

Amount: 1

Conc: 1



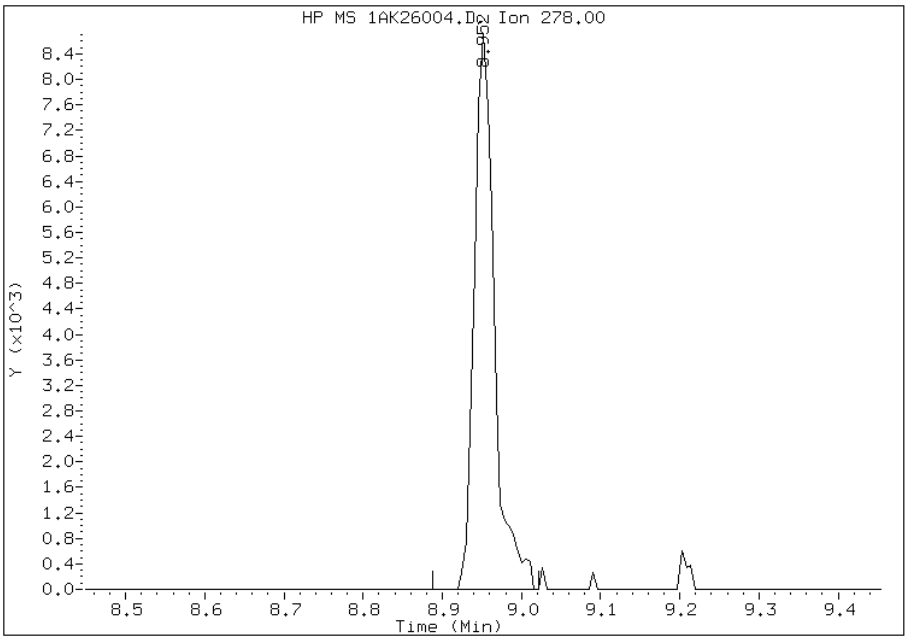

Manual Integration Results

RT: 8.95

Response: 15278

Amount: 1

Conc: 1




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:52
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26005.D
Lab Smp Id: IC-1473022
Inj Date : 26-NOV-2012 14:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1473022
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:56 BSMA5973.i Quant Type: ISTD
Cal Date : 26-NOV-2012 14:04 Cal File: 1AK26004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.774 | 2.773 | (1.000) | 867745 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.815 | 3.814 | (1.000) | 512360 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.809 | 4.813 | (1.000) | 739032 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.103 | 5.107 | (1.061) | 56153 | 5.00000 | 5.1244 |
| * 18 Chrysene-d12 | 240 | 6.882 | 6.886 | (1.000) | 719800 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.993 | 7.992 | (1.000) | 706452 | 40.0000 | |
| 2 Naphthalene | 128 | 2.784 | 2.783 | (1.004) | 102718 | 5.00000 | 4.9161 |
| 3 2-Methylnaphthalene | 141 | 3.185 | 3.189 | (1.148) | 58226 | 5.00000 | 4.9005 |
| 4 1-Methylnaphthalene | 142 | 3.244 | 3.248 | (1.169) | 63377 | 5.00000 | 4.9782 |
| 5 Acenaphthylene | 152 | 3.725 | 3.723 | (0.976) | 105700 | 5.00000 | 4.8995 |
| 7 Acenaphthene | 154 | 3.831 | 3.836 | (1.004) | 57263 | 5.00000 | 4.5930 |
| 9 Fluorene | 166 | 4.163 | 4.161 | (1.091) | 66443 | 5.00000 | 4.5175 |
| 11 Phenanthrene | 178 | 4.825 | 4.829 | (1.003) | 91744 | 5.00000 | 4.8327 |
| 12 Anthracene | 178 | 4.857 | 4.861 | (1.010) | 93104 | 5.00000 | 4.9897 |
| 13 Carbazole | 167 | 4.991 | 4.995 | (1.038) | 79324 | 5.00000 | 4.9023 |
| 15 Fluoranthene | 202 | 5.717 | 5.721 | (1.189) | 98343 | 5.00000 | 4.9257 |
| 16 Pyrene | 202 | 5.888 | 5.892 | (0.856) | 109127 | 5.00000 | 5.1452 |
| 17 Benzo(a)anthracene | 228 | 6.871 | 6.870 | (0.998) | 97156 | 5.00000 | 4.5846 |
| 19 Chrysene | 228 | 6.898 | 6.902 | (1.002) | 88998 | 5.00000 | 4.7571 |
| 20 Benzo(b)fluoranthene | 252 | 7.699 | 7.703 | (0.963) | 94083 | 5.00000 | 5.0275 |
| 21 Benzo(k)fluoranthene | 252 | 7.720 | 7.725 | (0.966) | 97008 | 5.00000 | 4.7046 |
| 22 Benzo(a)pyrene | 252 | 7.934 | 7.938 | (0.993) | 85899 | 5.00000 | 4.8061 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.917 | 8.932 | (1.116) | 79490 | 5.00000 | 4.6731(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 8.949 | 8.959 | (1.120) | 78063 | 5.00000 | 5.2906(M) |
| 26 Benzo(g,h,i)perylene | 276 | 9.200 | 9.215 | (1.151) | 83414 | 5.00000 | 5.0784(M) |

QC Flag Legend

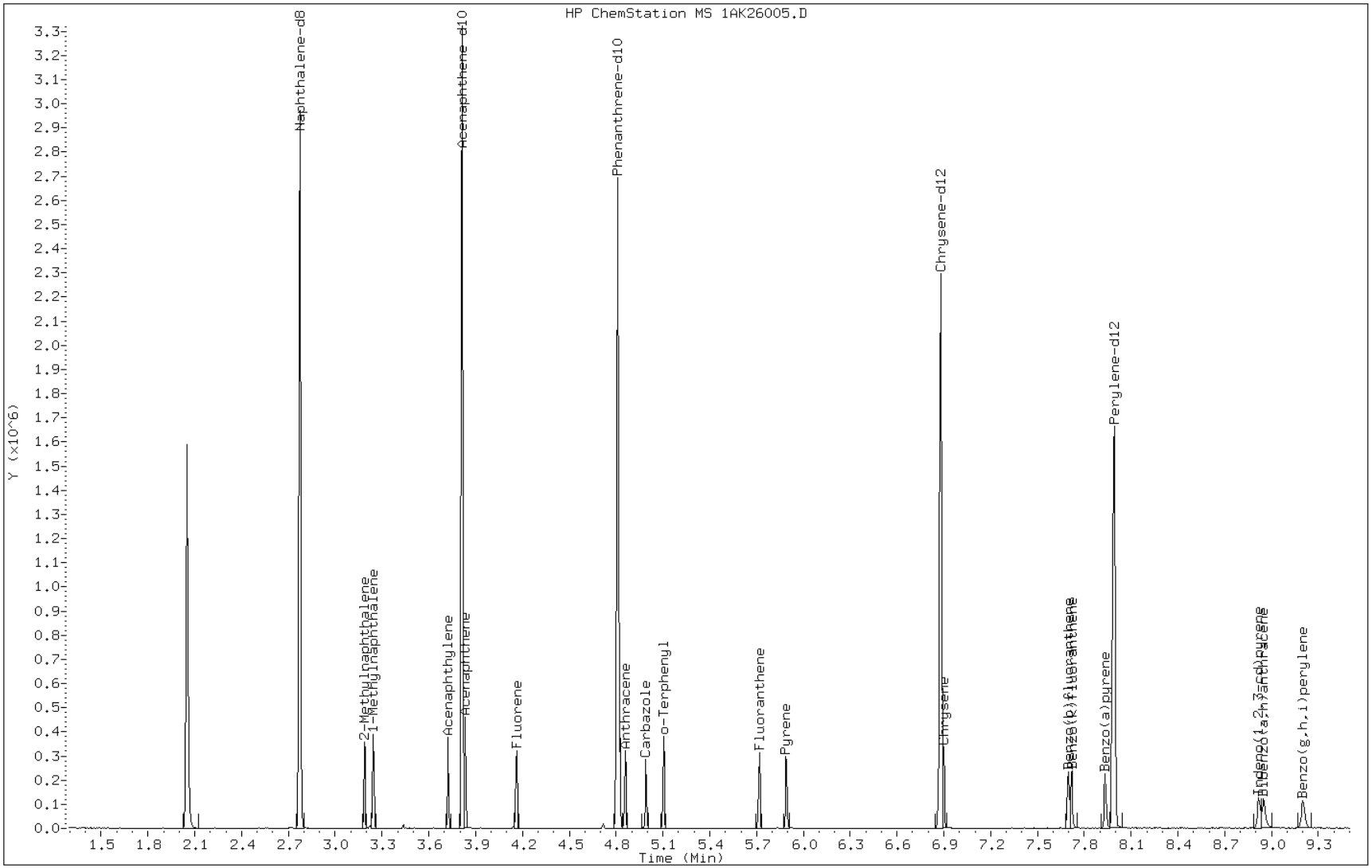
M - Compound response manually integrated.

Data File: 1AK26005.D

Date: 26-NOV-2012 14:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1473022 Operator: SCC



Manual Integration Report

Data File: 1AK26005.D
Inj. Date and Time: 26-NOV-2012 14:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/27/2012

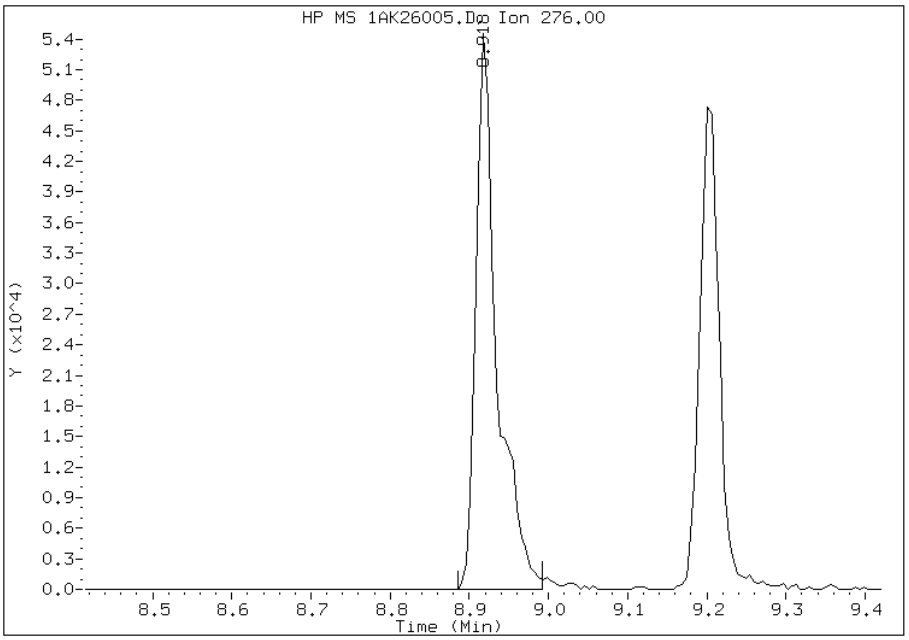
Processing Integration Results

RT: 8.92

Response: 100163

Amount: 7

Conc: 7



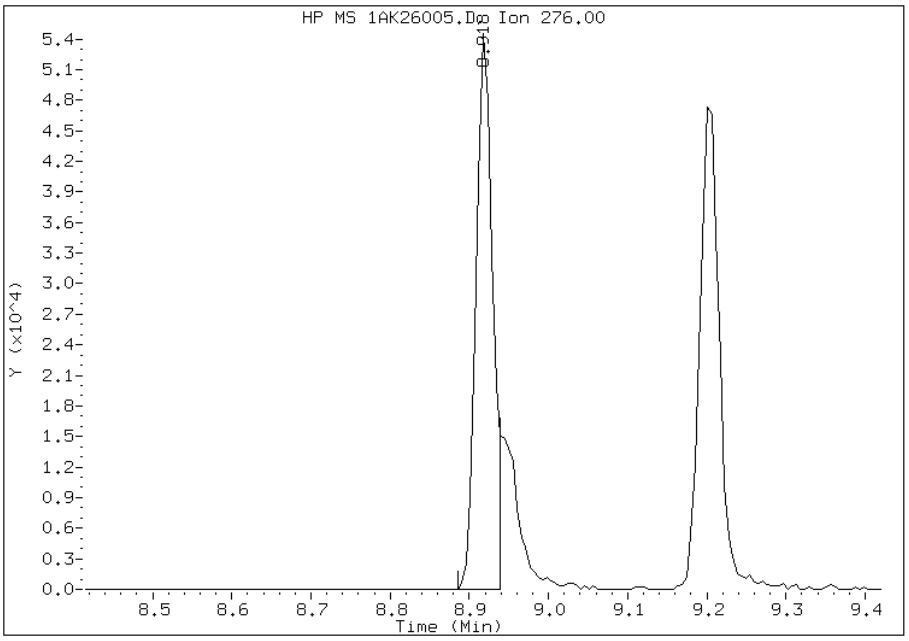

Manual Integration Results

RT: 8.92

Response: 79490

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AK26005.D
Inj. Date and Time: 26-NOV-2012 14:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/27/2012

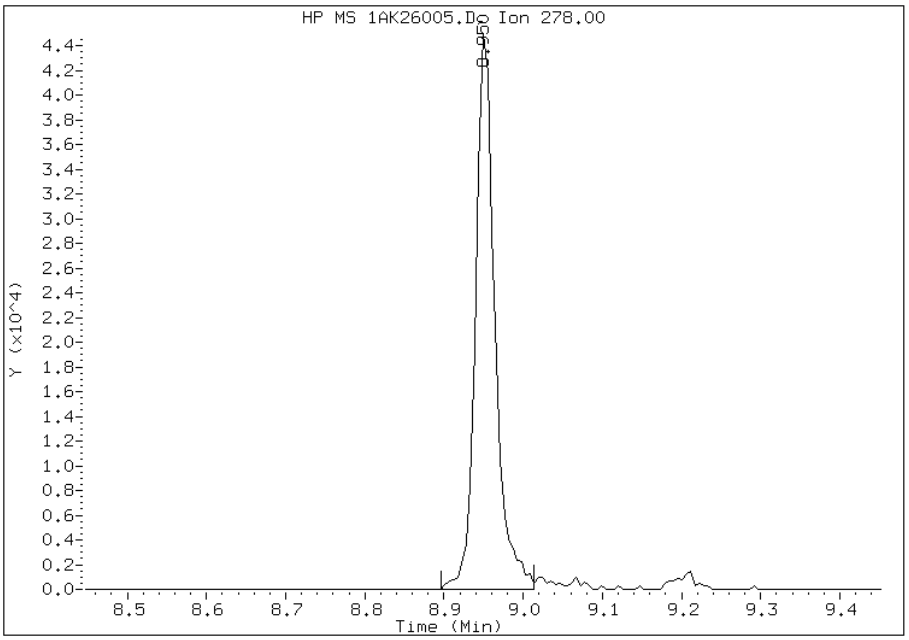
Processing Integration Results

RT: 8.95

Response: 75754

Amount: 5

Conc: 5



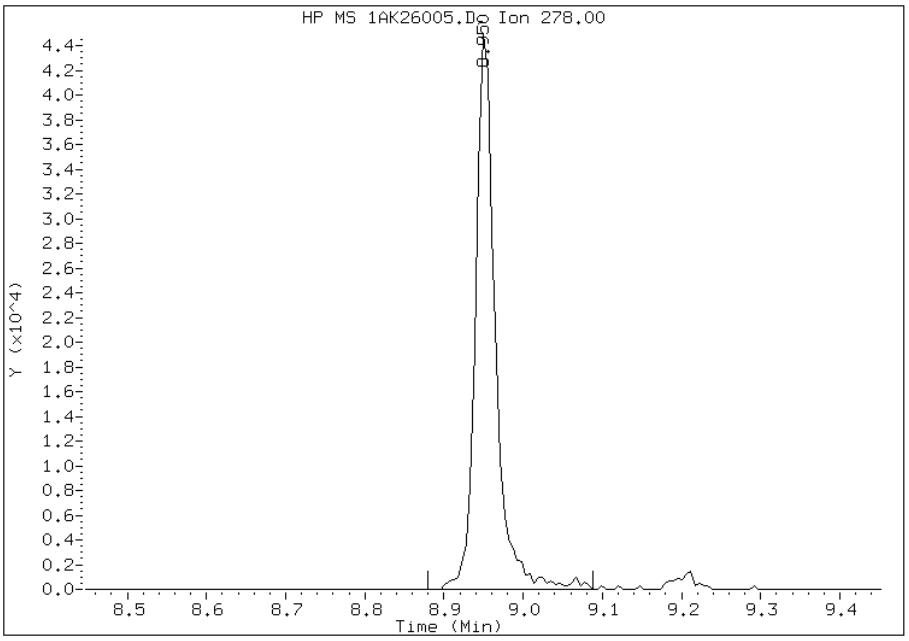

Manual Integration Results

RT: 8.95

Response: 78063

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AK26005.D
Inj. Date and Time: 26-NOV-2012 14:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/27/2012

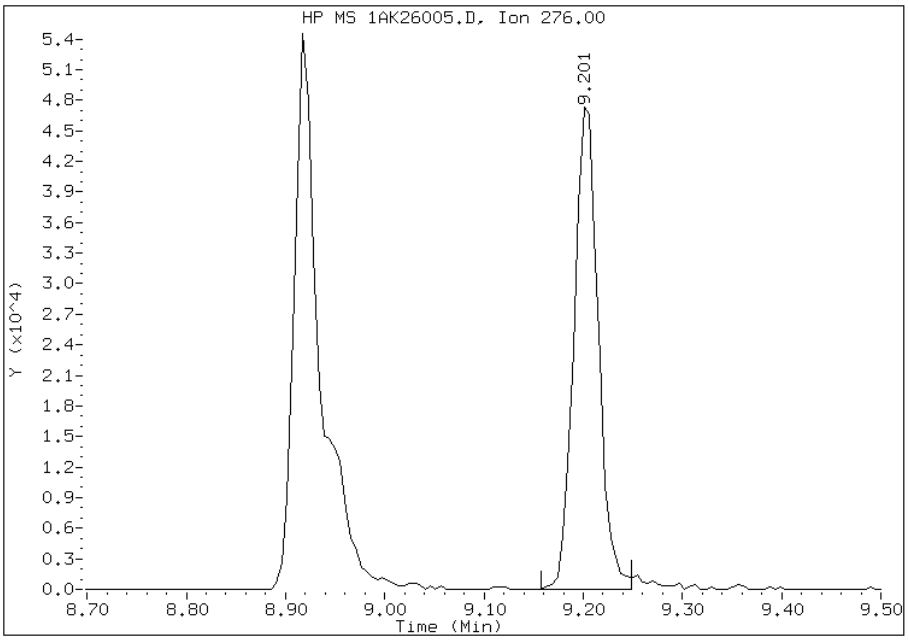
Processing Integration Results

RT: 9.20

Response: 81576

Amount: 5

Conc: 5



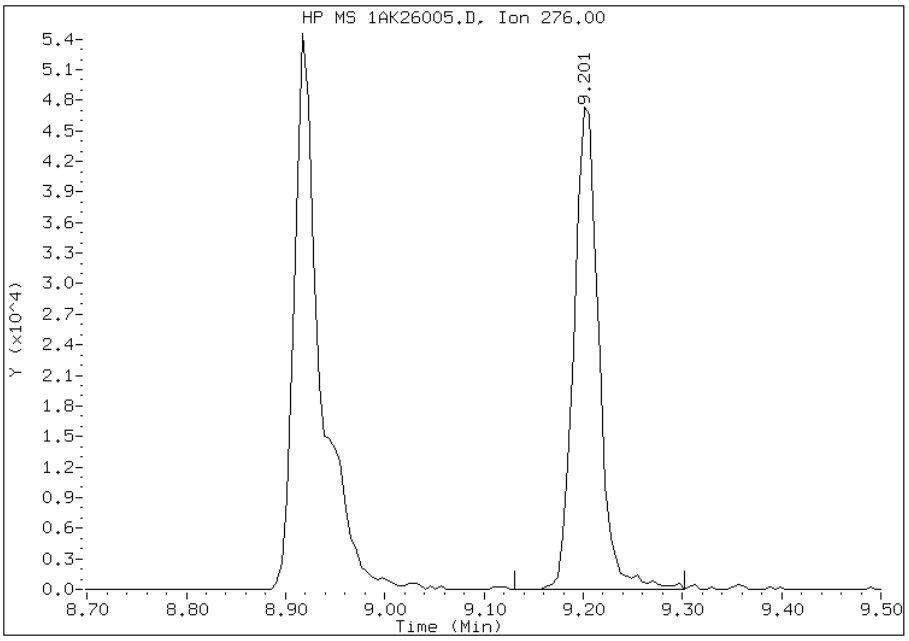

Manual Integration Results

RT: 9.20

Response: 83414

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:53
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26006.D
Lab Smp Id: IC-1473023
Inj Date : 26-NOV-2012 14:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1473023
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:56 BSMA5973.i Quant Type: ISTD
Cal Date : 26-NOV-2012 14:19 Cal File: 1AK26005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.770 | 2.773 | (1.000) | 865239 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.817 | 3.814 | (1.000) | 508713 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.811 | 4.813 | (1.000) | 758765 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.105 | 5.107 | (1.061) | 106497 | 10.0000 | 9.4659 |
| * 18 Chrysene-d12 | 240 | 6.884 | 6.886 | (1.000) | 728779 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.995 | 7.992 | (1.000) | 702995 | 40.0000 | |
| 2 Naphthalene | 128 | 2.781 | 2.783 | (1.004) | 207277 | 10.0000 | 9.9490 |
| 3 2-Methylnaphthalene | 141 | 3.187 | 3.189 | (1.150) | 114111 | 10.0000 | 9.6319 |
| 4 1-Methylnaphthalene | 142 | 3.246 | 3.248 | (1.172) | 125372 | 10.0000 | 9.8764 |
| 5 Acenaphthylene | 152 | 3.726 | 3.723 | (0.976) | 210891 | 10.0000 | 9.8455 |
| 7 Acenaphthene | 154 | 3.833 | 3.836 | (1.004) | 114260 | 10.0000 | 9.2304 |
| 9 Fluorene | 166 | 4.159 | 4.161 | (1.090) | 137290 | 10.0000 | 9.4013 |
| 11 Phenanthrene | 178 | 4.827 | 4.829 | (1.003) | 189359 | 10.0000 | 9.7153 |
| 12 Anthracene | 178 | 4.859 | 4.861 | (1.010) | 184249 | 10.0000 | 9.6177 |
| 13 Carbazole | 167 | 4.992 | 4.995 | (1.038) | 165192 | 10.0000 | 9.9436 |
| 15 Fluoranthene | 202 | 5.719 | 5.721 | (1.189) | 205330 | 10.0000 | 10.0169 |
| 16 Pyrene | 202 | 5.890 | 5.892 | (0.856) | 218856 | 10.0000 | 10.1918 |
| 17 Benzo(a)anthracene | 228 | 6.873 | 6.870 | (0.998) | 193510 | 10.0000 | 9.0188 |
| 19 Chrysene | 228 | 6.900 | 6.902 | (1.002) | 177247 | 10.0000 | 9.3574 |
| 20 Benzo(b)fluoranthene | 252 | 7.701 | 7.703 | (0.963) | 182583 | 10.0000 | 9.8046 |
| 21 Benzo(k)fluoranthene | 252 | 7.722 | 7.725 | (0.966) | 203838 | 10.0000 | 9.9343 |
| 22 Benzo(a)pyrene | 252 | 7.941 | 7.938 | (0.993) | 177282 | 10.0000 | 9.9679 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.930 | 8.932 | (1.117) | 171545 | 10.0000 | 10.0054(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 8.956 | 8.959 | (1.120) | 151784 | 10.0000 | 10.3375(M) |
| 26 Benzo(g,h,i)perylene | 276 | 9.213 | 9.215 | (1.152) | 165830 | 10.0000 | 10.1457(M) |

QC Flag Legend

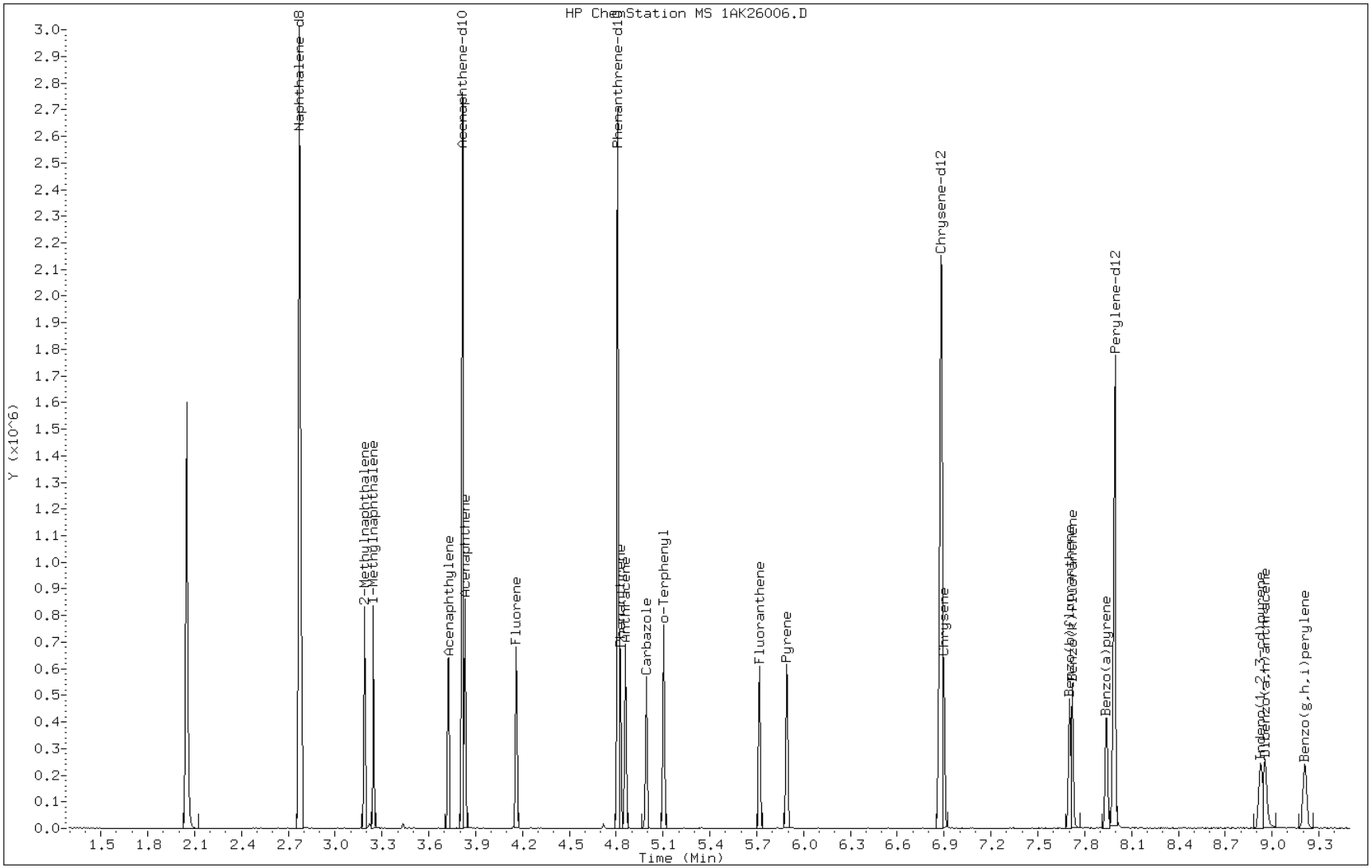
M - Compound response manually integrated.

Data File: 1AK26006.D

Date: 26-NOV-2012 14:34

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1473023 Operator: SCC



Manual Integration Report

Data File: 1AK26006.D
Inj. Date and Time: 26-NOV-2012 14:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/27/2012

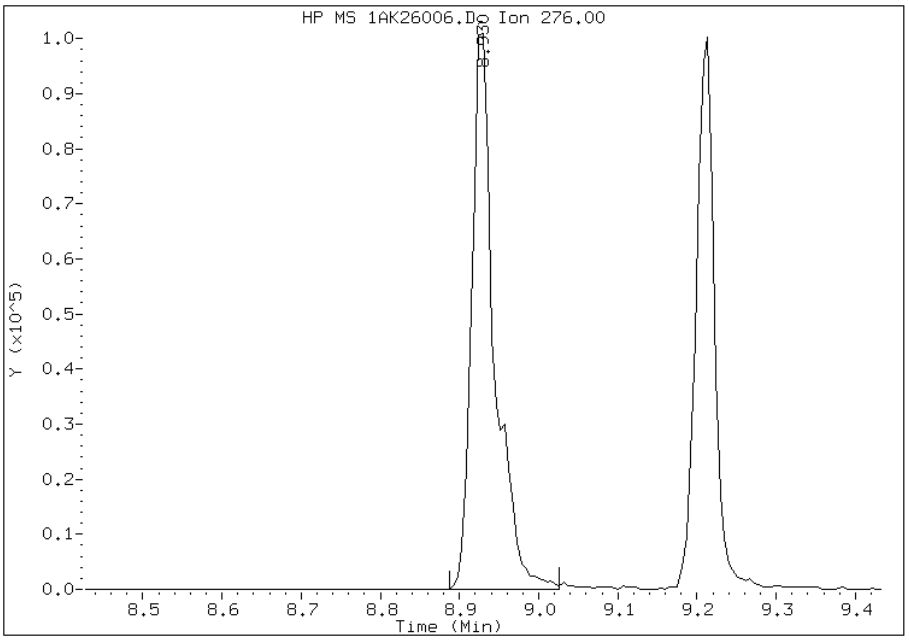
Processing Integration Results

RT: 8.93

Response: 202732

Amount: 13

Conc: 13



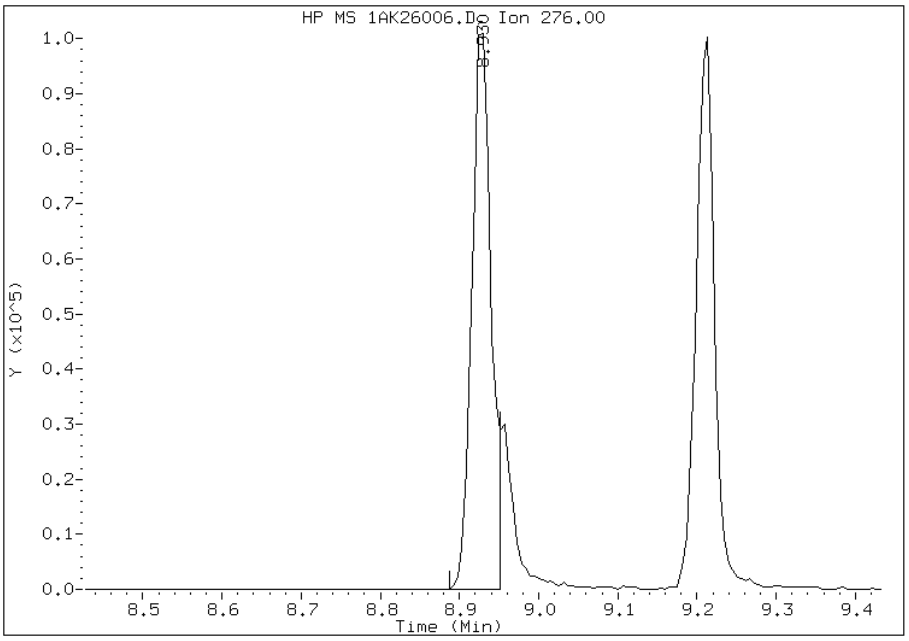

Manual Integration Results

RT: 8.93

Response: 171545

Amount: 10

Conc: 10




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AK26006.D
Inj. Date and Time: 26-NOV-2012 14:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/27/2012

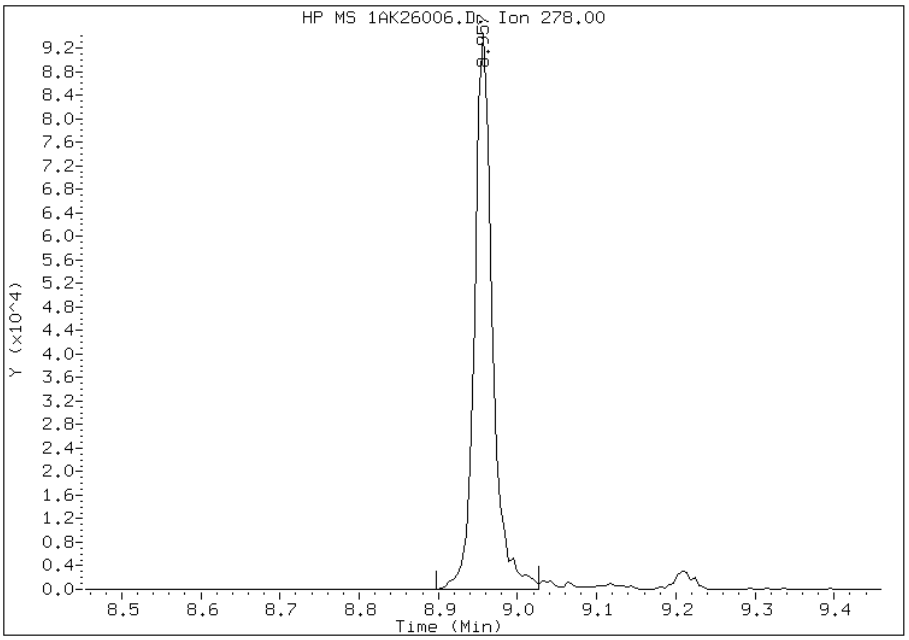
Processing Integration Results

RT: 8.96

Response: 146752

Amount: 10

Conc: 10



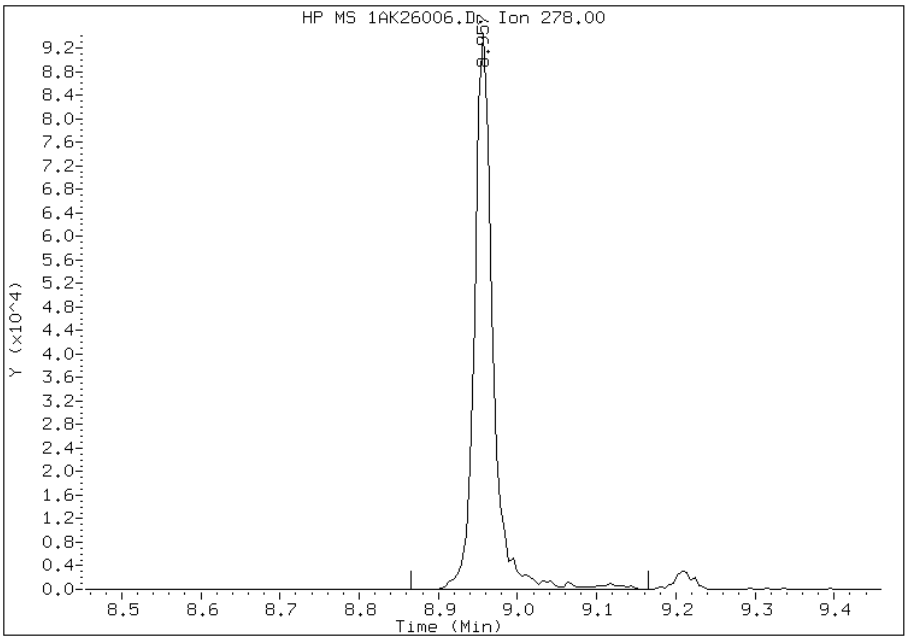

Manual Integration Results

RT: 8.96

Response: 151784

Amount: 10

Conc: 10




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AK26006.D
Inj. Date and Time: 26-NOV-2012 14:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/27/2012

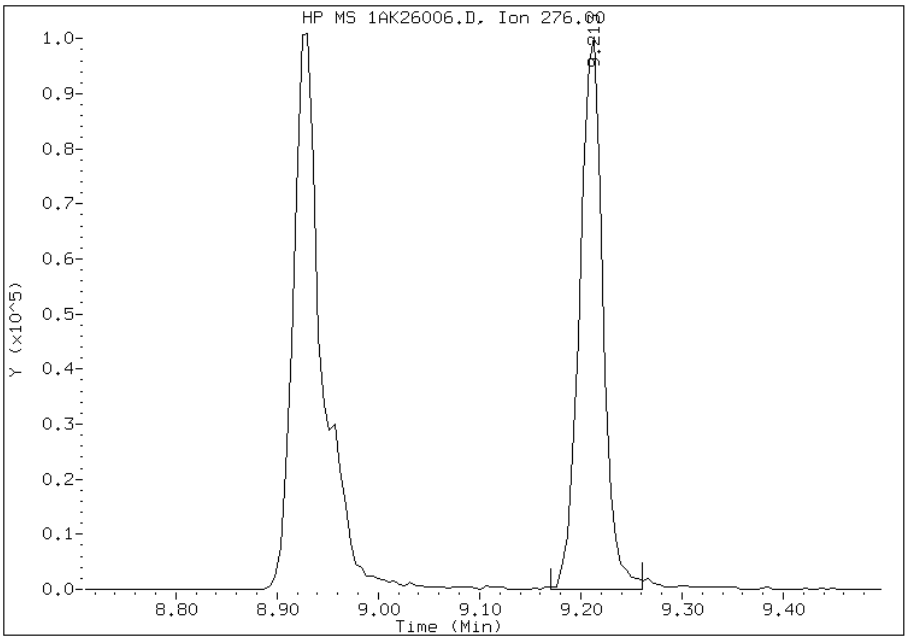
Processing Integration Results

RT: 9.21

Response: 162344

Amount: 10

Conc: 10



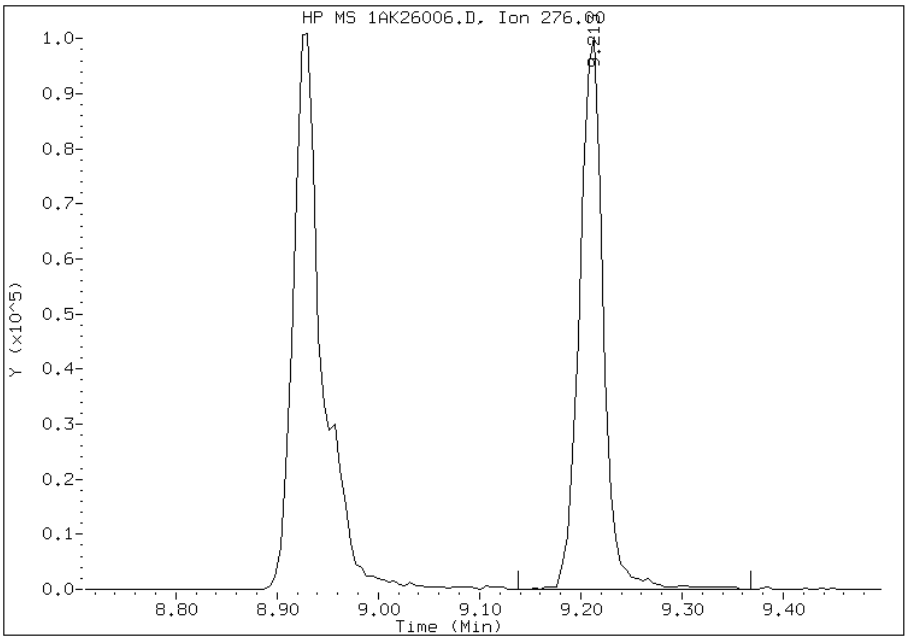

Manual Integration Results

RT: 9.21

Response: 165830

Amount: 10

Conc: 10




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:54
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26007.D
Lab Smp Id: ICIS-1473024
Inj Date : 26-NOV-2012 14:50
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:56 BSMA5973.i Quant Type: ISTD
Cal Date : 26-NOV-2012 14:34 Cal File: 1AK26006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

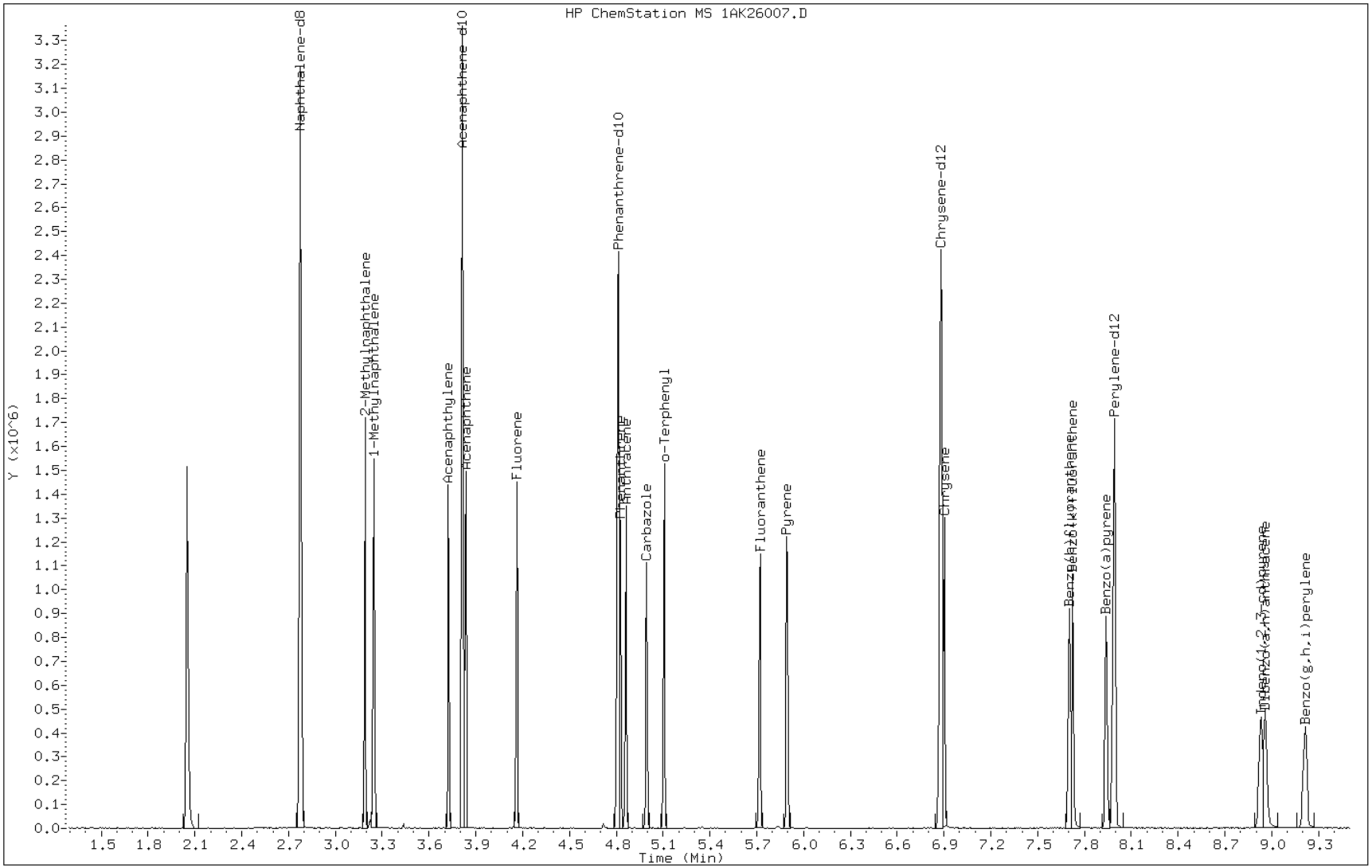
| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.773 | 2.773 | (1.000) | 868877 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.814 | 3.814 | (1.000) | 483504 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.813 | 4.813 | (1.000) | 776605 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.107 | 5.107 | (1.061) | 213882 | 20.0000 | 18.5741 |
| * 18 Chrysene-d12 | 240 | 6.886 | 6.886 | (1.000) | 739631 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.992 | 7.992 | (1.000) | 669850 | 40.0000 | |
| 2 Naphthalene | 128 | 2.783 | 2.783 | (1.004) | 408858 | 20.0000 | 19.5425 |
| 3 2-Methylnaphthalene | 141 | 3.189 | 3.189 | (1.150) | 228668 | 20.0000 | 19.2206 |
| 4 1-Methylnaphthalene | 142 | 3.248 | 3.248 | (1.171) | 252046 | 20.0000 | 19.7722 |
| 5 Acenaphthylene | 152 | 3.723 | 3.723 | (0.976) | 418422 | 20.0000 | 20.5527 |
| 7 Acenaphthene | 154 | 3.836 | 3.836 | (1.006) | 226674 | 20.0000 | 19.2666 |
| 9 Fluorene | 166 | 4.161 | 4.161 | (1.091) | 270303 | 20.0000 | 19.4749 |
| 11 Phenanthrene | 178 | 4.829 | 4.829 | (1.003) | 372734 | 20.0000 | 18.6844 |
| 12 Anthracene | 178 | 4.861 | 4.861 | (1.010) | 380192 | 20.0000 | 19.3899 |
| 13 Carbazole | 167 | 4.995 | 4.995 | (1.038) | 321620 | 20.0000 | 18.9151 |
| 15 Fluoranthene | 202 | 5.721 | 5.721 | (1.189) | 415106 | 20.0000 | 19.7856 |
| 16 Pyrene | 202 | 5.892 | 5.892 | (0.856) | 440826 | 20.0000 | 20.2274 |
| 17 Benzo(a)anthracene | 228 | 6.870 | 6.870 | (0.998) | 386316 | 20.0000 | 17.7407 |
| 19 Chrysene | 228 | 6.902 | 6.902 | (1.002) | 363848 | 20.0000 | 18.9269 |
| 20 Benzo(b)fluoranthene | 252 | 7.703 | 7.703 | (0.964) | 373412 | 20.0000 | 21.0442 |
| 21 Benzo(k)fluoranthene | 252 | 7.725 | 7.725 | (0.967) | 390377 | 20.0000 | 19.9670 |
| 22 Benzo(a)pyrene | 252 | 7.938 | 7.938 | (0.993) | 343556 | 20.0000 | 20.2727 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.932 | 8.932 | (1.118) | 323358 | 20.0000 | 19.3294 |
| 25 Dibenzo(a,h)anthracene | 278 | 8.959 | 8.959 | (1.121) | 283508 | 20.0000 | 20.2642 |
| 26 Benzo(g,h,i)perylene | 276 | 9.215 | 9.215 | (1.153) | 305232 | 20.0000 | 19.5986 |

Data File: 1AK26007.D

Date: 26-NOV-2012 14:50

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1473024 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26008.D
Lab Smp Id: IC-1473025
Inj Date : 26-NOV-2012 15:05
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1473025
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:56 BSMA5973.i Quant Type: ISTD
Cal Date : 26-NOV-2012 14:50 Cal File: 1AK26007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.772 | 2.773 | (1.000) | 873737 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.814 | 3.814 | (1.000) | 486420 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.813 | 4.813 | (1.000) | 788333 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.107 | 5.107 | (1.061) | 325611 | 30.0000 | 27.8563 |
| * 18 Chrysene-d12 | 240 | 6.886 | 6.886 | (1.000) | 736036 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.997 | 7.992 | (1.000) | 674484 | 40.0000 | |
| 2 Naphthalene | 128 | 2.783 | 2.783 | (1.004) | 640397 | 30.0000 | 30.4393 |
| 3 2-Methylnaphthalene | 141 | 3.189 | 3.189 | (1.150) | 364351 | 30.0000 | 30.4551 |
| 4 1-Methylnaphthalene | 142 | 3.248 | 3.248 | (1.171) | 388327 | 30.0000 | 30.2936 |
| 5 Acenaphthylene | 152 | 3.723 | 3.723 | (0.976) | 659152 | 30.0000 | 32.1832 |
| 7 Acenaphthene | 154 | 3.835 | 3.836 | (1.006) | 350528 | 30.0000 | 29.6152 |
| 9 Fluorene | 166 | 4.161 | 4.161 | (1.091) | 427737 | 30.0000 | 30.6331 |
| 11 Phenanthrene | 178 | 4.829 | 4.829 | (1.003) | 589151 | 30.0000 | 29.0936 |
| 12 Anthracene | 178 | 4.861 | 4.861 | (1.010) | 596817 | 30.0000 | 29.9851 |
| 13 Carbazole | 167 | 4.995 | 4.995 | (1.038) | 506682 | 30.0000 | 29.3556 |
| 15 Fluoranthene | 202 | 5.721 | 5.721 | (1.189) | 649184 | 30.0000 | 30.4824 |
| 16 Pyrene | 202 | 5.897 | 5.892 | (0.856) | 669312 | 30.0000 | 30.8616 |
| 17 Benzo(a)anthracene | 228 | 6.875 | 6.870 | (0.998) | 597908 | 30.0000 | 27.5918 |
| 19 Chrysene | 228 | 6.907 | 6.902 | (1.003) | 555590 | 30.0000 | 29.0422 |
| 20 Benzo(b)fluoranthene | 252 | 7.708 | 7.703 | (0.964) | 609369 | 30.0000 | 34.1061 |
| 21 Benzo(k)fluoranthene | 252 | 7.730 | 7.725 | (0.967) | 585103 | 30.0000 | 29.7212 |
| 22 Benzo(a)pyrene | 252 | 7.949 | 7.938 | (0.994) | 541303 | 30.0000 | 31.7220 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.937 | 8.932 | (1.118) | 534416 | 30.0000 | 30.7388 |
| 25 Dibenzo(a,h)anthracene | 278 | 8.969 | 8.959 | (1.122) | 466402 | 30.0000 | 33.1078(M) |
| 26 Benzo(g,h,i)perylene | 276 | 9.231 | 9.215 | (1.154) | 477452 | 30.0000 | 30.4460(M) |

QC Flag Legend

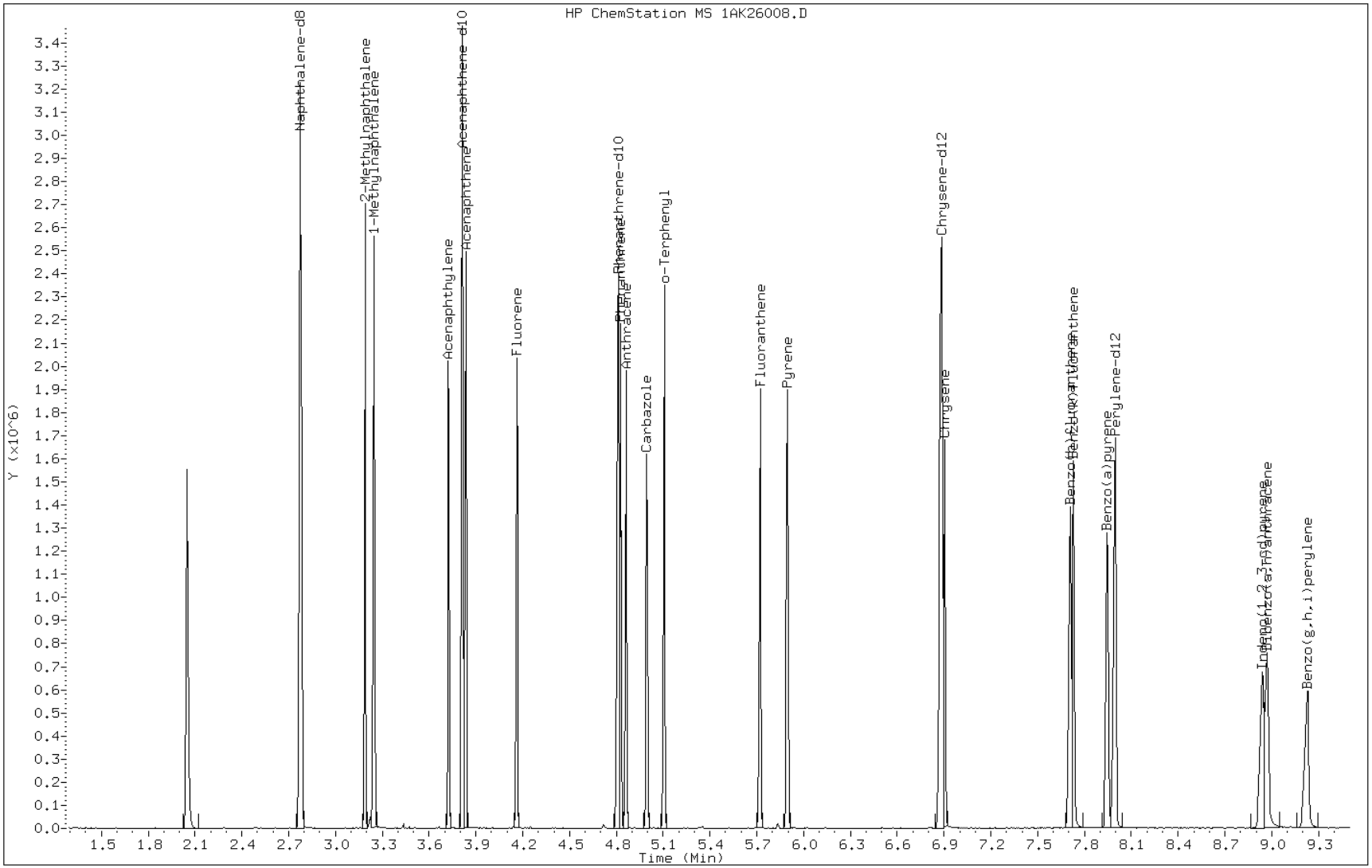
M - Compound response manually integrated.

Data File: 1AK26008.D

Date: 26-NOV-2012 15:05

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1473025 Operator: SCC



Manual Integration Report

Data File: 1AK26008.D
Inj. Date and Time: 26-NOV-2012 15:05
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/27/2012

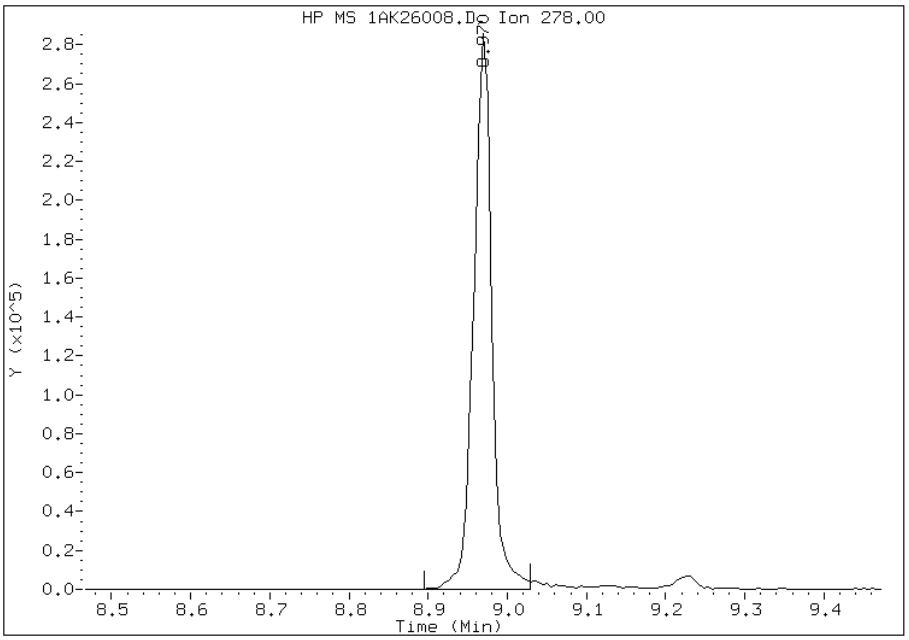
Processing Integration Results

RT: 8.97

Response: 451736

Amount: 36

Conc: 36



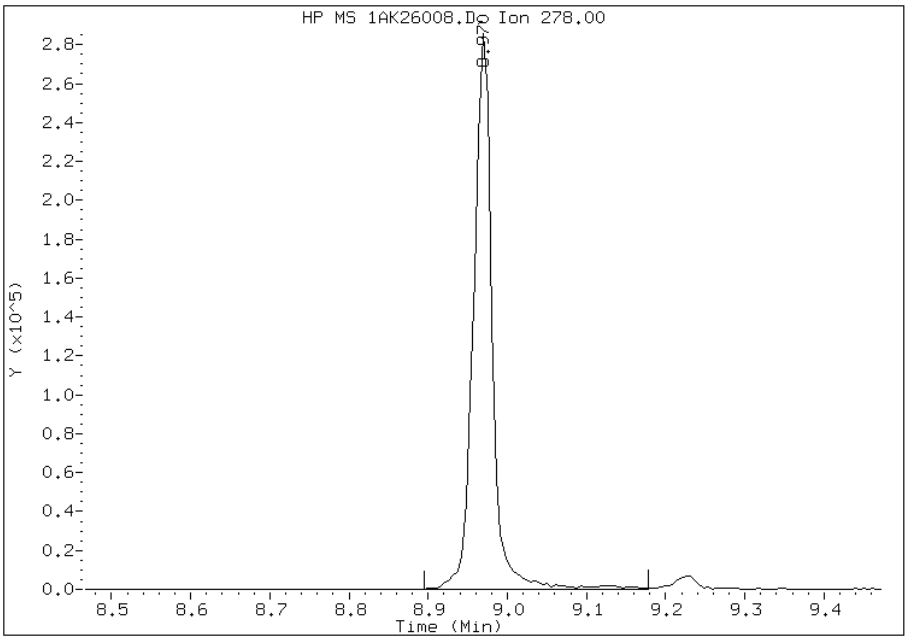

Manual Integration Results

RT: 8.97

Response: 466402

Amount: 33

Conc: 33




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AK26008.D
Inj. Date and Time: 26-NOV-2012 15:05
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/27/2012

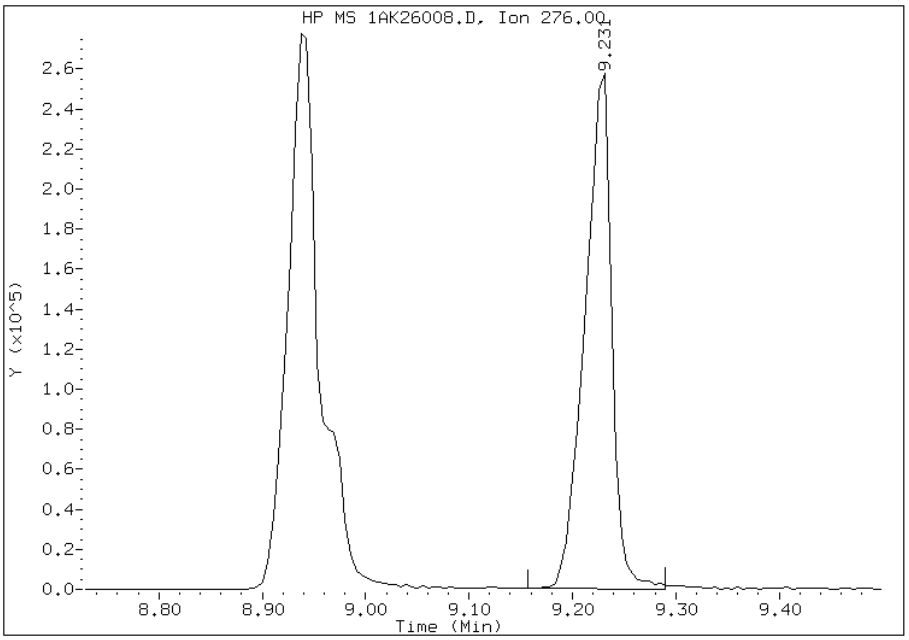
Processing Integration Results

RT: 9.23

Response: 470989

Amount: 30

Conc: 30



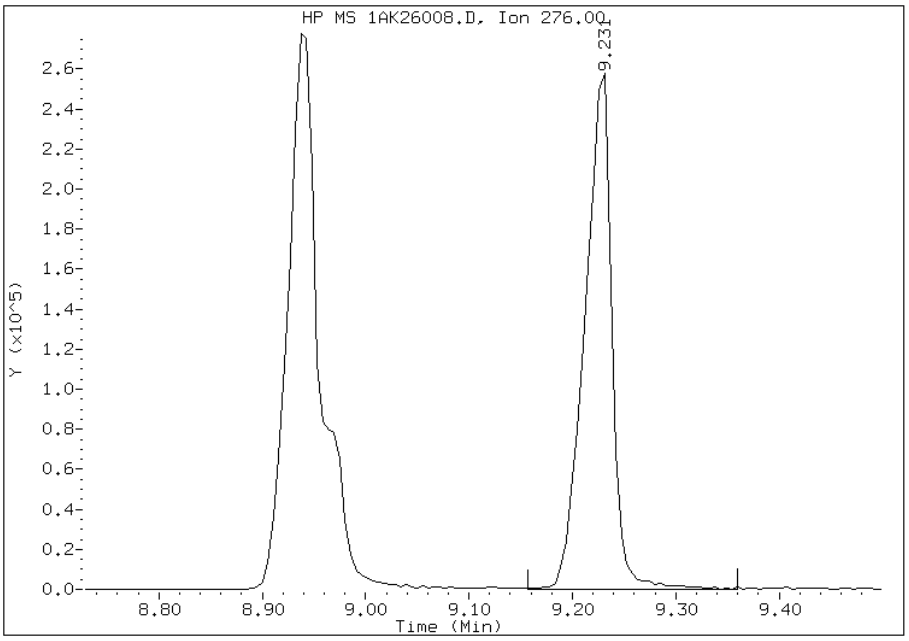

Manual Integration Results

RT: 9.23

Response: 477452

Amount: 30

Conc: 30




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:55
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26009.D
Lab Smp Id: IC-1473026
Inj Date : 26-NOV-2012 15:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1473026
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:56 BSMA5973.i Quant Type: ISTD
Cal Date : 26-NOV-2012 15:05 Cal File: 1AK26008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.773 | 2.773 | (1.000) | 876852 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.815 | 3.814 | (1.000) | 475451 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.808 | 4.813 | (1.000) | 735122 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.107 | 5.107 | (1.062) | 545894 | 50.0000 | 50.0822(A) |
| * 18 Chrysene-d12 | 240 | 6.886 | 6.886 | (1.000) | 700109 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.997 | 7.992 | (1.000) | 682669 | 40.0000 | |
| 2 Naphthalene | 128 | 2.784 | 2.783 | (1.004) | 1115863 | 50.0000 | 52.8508(A) |
| 3 2-Methylnaphthalene | 141 | 3.190 | 3.189 | (1.150) | 601538 | 50.0000 | 50.1023(A) |
| 4 1-Methylnaphthalene | 142 | 3.248 | 3.248 | (1.171) | 642452 | 50.0000 | 49.9400 |
| 5 Acenaphthylene | 152 | 3.729 | 3.723 | (0.978) | 1096161 | 50.0000 | 54.7550(A) |
| 7 Acenaphthene | 154 | 3.836 | 3.836 | (1.006) | 586356 | 50.0000 | 50.6826(A) |
| 9 Fluorene | 166 | 4.167 | 4.161 | (1.092) | 709391 | 50.0000 | 51.9763(A) |
| 11 Phenanthrene | 178 | 4.830 | 4.829 | (1.004) | 938445 | 50.0000 | 49.6970 |
| 12 Anthracene | 178 | 4.867 | 4.861 | (1.012) | 938735 | 50.0000 | 50.5776(A) |
| 13 Carbazole | 167 | 5.001 | 4.995 | (1.040) | 809424 | 50.0000 | 50.2901(A) |
| 15 Fluoranthene | 202 | 5.727 | 5.721 | (1.191) | 1037328 | 50.0000 | 52.2334(A) |
| 16 Pyrene | 202 | 5.903 | 5.892 | (0.857) | 1083900 | 50.0000 | 52.5428(A) |
| 17 Benzo(a)anthracene | 228 | 6.876 | 6.870 | (0.998) | 936357 | 50.0000 | 45.4277 |
| 19 Chrysene | 228 | 6.908 | 6.902 | (1.003) | 871883 | 50.0000 | 47.9145 |
| 20 Benzo(b)fluoranthene | 252 | 7.709 | 7.703 | (0.964) | 965364 | 50.0000 | 53.3831(A) |
| 21 Benzo(k)fluoranthene | 252 | 7.736 | 7.725 | (0.967) | 1000638 | 50.0000 | 50.2196(A) |
| 22 Benzo(a)pyrene | 252 | 7.949 | 7.938 | (0.994) | 910090 | 50.0000 | 52.6945(A) |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.948 | 8.932 | (1.119) | 932472 | 50.0000 | 49.8372(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 8.980 | 8.959 | (1.123) | 821682 | 50.0000 | 57.6283(AM) |
| 26 Benzo(g,h,i)perylene | 276 | 9.242 | 9.215 | (1.156) | 855522 | 50.0000 | 53.9005(AM) |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AK26009.D

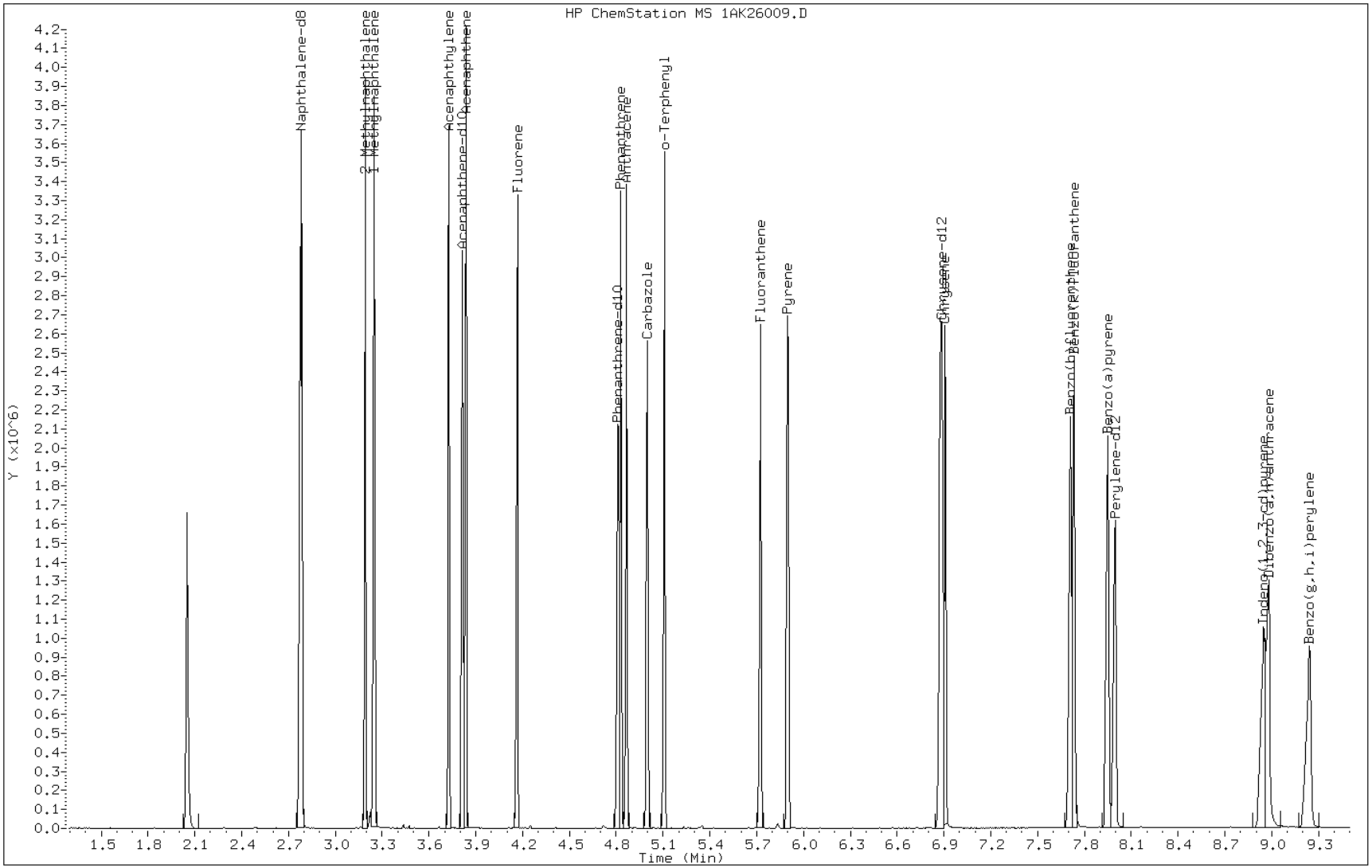
Date: 26-NOV-2012 15:20

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1473026

Operator: SCC



Manual Integration Report

Data File: 1AK26009.D
Inj. Date and Time: 26-NOV-2012 15:20
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/27/2012

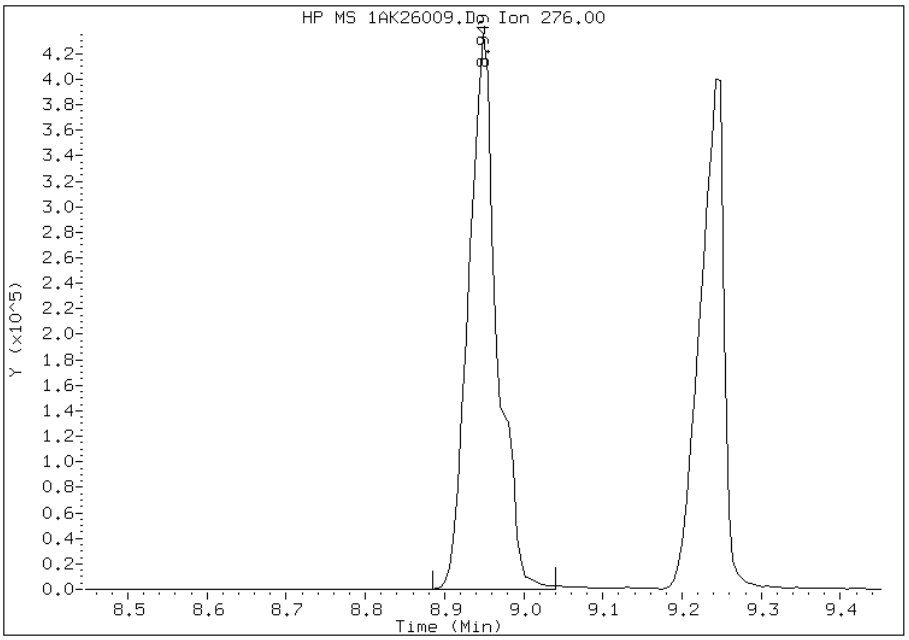
Processing Integration Results

RT: 8.95

Response: 1081818

Amount: 50

Conc: 50



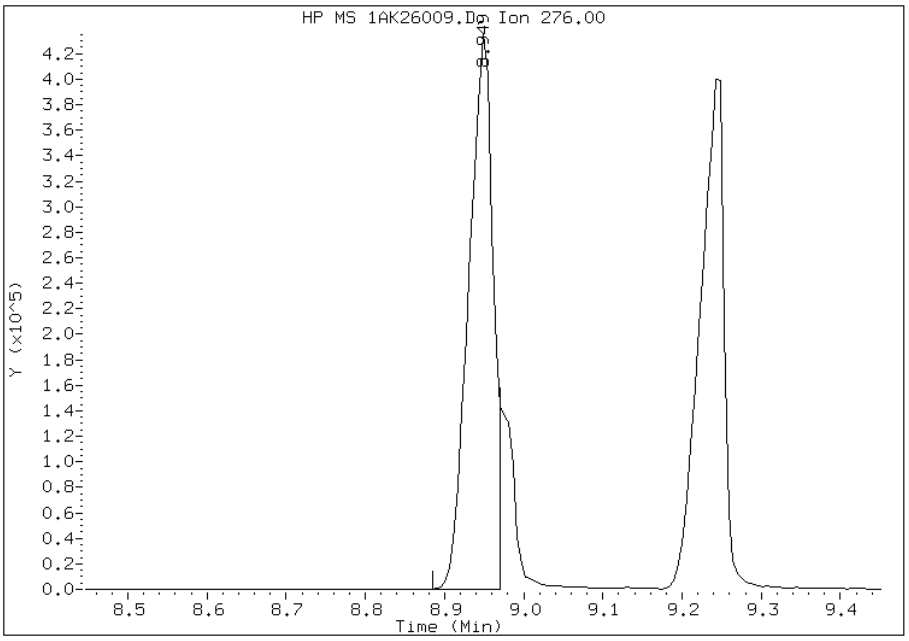

Manual Integration Results

RT: 8.95

Response: 932472

Amount: 50

Conc: 50




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AK26009.D
Inj. Date and Time: 26-NOV-2012 15:20
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/27/2012

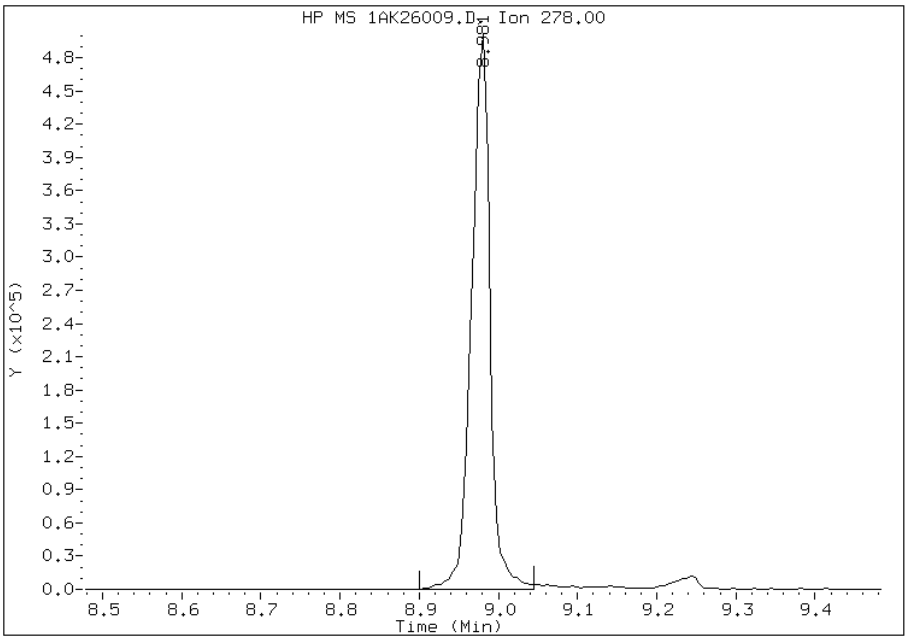
Processing Integration Results

RT: 8.98

Response: 802976

Amount: 57

Conc: 57



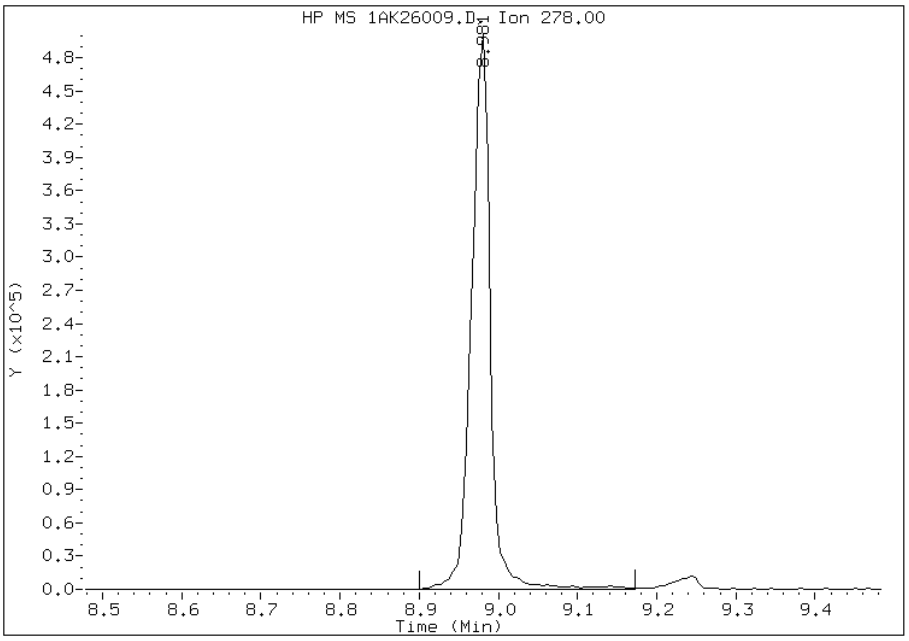

Manual Integration Results

RT: 8.98

Response: 821682

Amount: 58

Conc: 58




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AK26009.D
Inj. Date and Time: 26-NOV-2012 15:20
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/27/2012

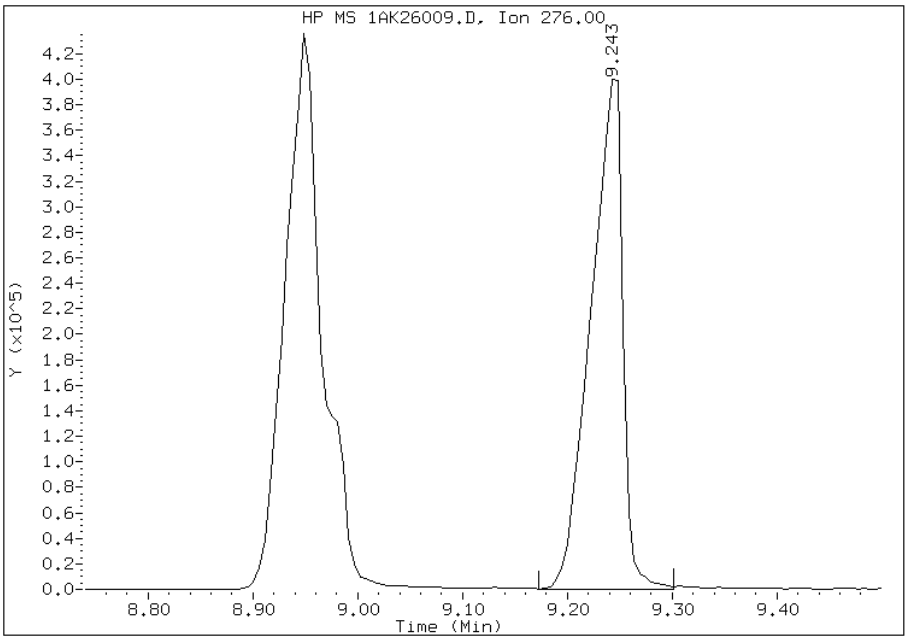
Processing Integration Results

RT: 9.24

Response: 848715

Amount: 54

Conc: 54



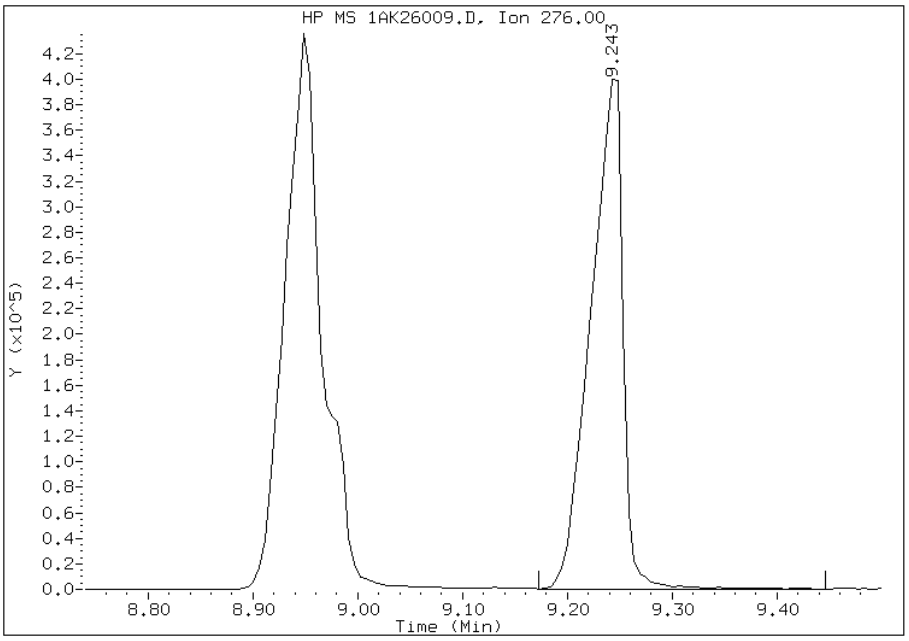

Manual Integration Results

RT: 9.24

Response: 855522

Amount: 54

Conc: 54




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 09:56
Manual Integration Reason: Baseline Event

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131957

SDG No.: 68085534-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2012 11:16 Calibration End Date: 11/29/2012 13:06 Calibration ID: 2585

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 660-131957/3 | 1CK29003.D |
| Level 2 | IC 660-131957/4 | 1CK29004.D |
| Level 3 | IC 660-131957/5 | 1CK29005.D |
| Level 4 | IC 660-131957/6 | 1CK29006.D |
| Level 5 | ICIS 660-131957/7 | 1CK29007.D |
| Level 6 | IC 660-131957/8 | 1CK29008.D |
| Level 7 | IC 660-131957/9 | 1CK29009.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Naphthalene | 1.2451<br>1.0500 | 1.0973<br>1.0563 | 1.0698 | 1.0457 | 1.0355 | Ave | | 1.0857 | | | 0.0000 | 6.7 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.6633<br>0.6562 | 0.6349<br>0.6722 | 0.6719 | 0.6545 | 0.6548 | Ave | | 0.6582 | | | 0.0000 | 1.9 | | 15.0 | | | |
| 1-Methylnaphthalene | 0.6857<br>0.6259 | 0.6270<br>0.6208 | 0.6539 | 0.6373 | 0.6311 | Ave | | 0.6402 | | | 0.0000 | 3.6 | | 15.0 | | | |
| Acenaphthylene | 1.5095<br>1.6299 | 1.4665<br>1.6168 | 1.6016 | 1.6547 | 1.5653 | Ave | | 1.5778 | | | 0.0000 | 4.3 | | 15.0 | | | |
| Acenaphthene | 1.1263<br>0.9761 | 0.8977<br>0.9337 | 1.0155 | 0.9748 | 0.9295 | Ave | | 0.9791 | | | 0.0000 | 7.7 | | 15.0 | | | |
| Fluorene | 1.4764<br>1.2406 | 1.2156<br>1.2053 | 1.2477 | 1.2748 | 1.2005 | Ave | | 1.2659 | | | 0.0000 | 7.6 | | 15.0 | | | |
| Phenanthrene | 1.5125<br>1.0819 | 1.0902<br>1.1004 | 1.1714 | 1.1183 | 1.0825 | Ave | | 1.1653 | | | 0.0000 | 13.4 | | 15.0 | | | |
| Anthracene | 1.0450<br>1.0792 | 1.0587<br>1.0940 | 1.0880 | 1.0786 | 1.0983 | Ave | | 1.0774 | | | 0.0000 | 1.8 | | 15.0 | | | |
| Carbazole | 1.1941<br>0.9364 | 0.8874<br>0.9737 | 0.9131 | 0.9662 | 0.9389 | Ave | | 0.9728 | | | 0.0000 | 10.5 | | 15.0 | | | |
| Fluoranthene | 1.3026<br>1.1755 | 1.0445<br>1.2007 | 1.1593 | 1.1672 | 1.1596 | Ave | | 1.1728 | | | 0.0000 | 6.5 | | 15.0 | | | |
| Pyrene | 1.0051<br>1.1319 | 1.0194<br>1.1216 | 1.1643 | 1.1410 | 1.1094 | Ave | | 1.0990 | | | 0.0000 | 5.6 | | 15.0 | | | |
| Benzo[a]anthracene | 1.3704<br>1.0370 | 0.9839<br>1.0622 | 1.0045 | 1.0060 | 0.9971 | Ave | | 1.0659 | | | 0.0000 | 12.8 | | 15.0 | | | |
| Chrysene | 1.3132<br>1.0853 | 1.1569<br>1.0991 | 1.1343 | 1.1516 | 1.0757 | Ave | | 1.1451 | | | 0.0000 | 7.0 | | 15.0 | | | |
| Benzo[b]fluoranthene | 1.1428<br>0.9897 | 0.8840<br>1.0513 | 0.9292 | 1.0360 | 0.9352 | Ave | | 0.9955 | | | 0.0000 | 8.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131957

SDG No.: 68085534-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2012 11:16 Calibration End Date: 11/29/2012 13:06 Calibration ID: 2585

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Benzo[k]fluoranthene | 0.8113<br>1.1729 | 1.0317<br>1.1072 | 1.0995 | 1.0680 | 1.1482 | Ave | | 1.0627 | | | 0.0000 | 11.3 | | 15.0 | | | |
| Benzo[a]pyrene | 0.7826<br>1.0341 | 0.8351<br>1.0311 | 0.9237 | 0.9839 | 0.9806 | Ave | | 0.9387 | | | 0.0000 | 10.4 | | 15.0 | | | |
| Indeno[1,2,3-cd]pyrene | 0.8403<br>1.0519 | 0.7769<br>0.9920 | 0.8452 | 0.8868 | 0.9536 | Ave | | 0.9067 | | | 0.0000 | 10.7 | | 15.0 | | | |
| Dibenz(a,h)anthracene | 0.8707<br>0.9260 | 0.8439<br>0.9147 | 0.8982 | 0.9252 | 0.9039 | Ave | | 0.8975 | | | 0.0000 | 3.4 | | 15.0 | | | |
| Benzo[g,h,i]perylene | 0.8668<br>1.0311 | 0.9411<br>1.0025 | 1.0322 | 1.0264 | 1.0035 | Ave | | 0.9862 | | | 0.0000 | 6.2 | | 15.0 | | | |
| o-Terphenyl | 0.5394<br>0.5740 | 0.5529<br>0.5615 | 0.6051 | 0.5686 | 0.5751 | Ave | | 0.5681 | | | 0.0000 | 3.6 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131957

SDG No.: 68085534-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2012 11:16 Calibration End Date: 11/29/2012 13:06 Calibration ID: 2585

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 660-131957/3 | 1CK29003.D |
| Level 2 | IC 660-131957/4 | 1CK29004.D |
| Level 3 | IC 660-131957/5 | 1CK29005.D |
| Level 4 | IC 660-131957/6 | 1CK29006.D |
| Level 5 | ICIS 660-131957/7 | 1CK29007.D |
| Level 6 | IC 660-131957/8 | 1CK29008.D |
| Level 7 | IC 660-131957/9 | 1CK29009.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Naphthalene | NPT | Ave | 13978<br>2069013 | 69240<br>3593890 | 324866 | 680961 | 1357812 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| 2-Methylnaphthalene | NPT | Ave | 7447<br>1293067 | 40061<br>2287049 | 204034 | 426172 | 858582 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| 1-Methylnaphthalene | NPT | Ave | 7698<br>1233327 | 39564<br>2112179 | 198564 | 414976 | 827525 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Acenaphthylene | ANT | Ave | 11723<br>2207827 | 63222<br>3868733 | 330727 | 724377 | 1433121 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Acenaphthene | ANT | Ave | 8747<br>1322271 | 38699<br>2234252 | 209692 | 426719 | 850977 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Fluorene | ANT | Ave | 11466<br>1680519 | 52404<br>2884246 | 257635 | 558078 | 1099143 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Phenanthrene | PHN | Ave | 20855<br>2708941 | 86476<br>4720565 | 427074 | 899379 | 1757192 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Anthracene | PHN | Ave | 14409<br>2702092 | 83975<br>4692964 | 396685 | 867454 | 1782845 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Carbazole | PHN | Ave | 16464<br>2344664 | 70391<br>4176836 | 332927 | 777040 | 1524176 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Fluoranthene | PHN | Ave | 17961<br>2943394 | 82856<br>5150634 | 422690 | 938703 | 1882387 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Pyrene | CRY | Ave | 15833<br>3190089 | 90605<br>5545478 | 484688 | 1059849 | 2063058 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[a]anthracene | CRY | Ave | 21588<br>2922495 | 87450<br>5252107 | 418151 | 934395 | 1854304 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Chrysene | CRY | Ave | 20686<br>3058758 | 102821<br>5434182 | 472184 | 1069648 | 2000326 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[b]fluoranthene | PRY | Ave | 18769<br>2877181 | 82550<br>5537431 | 403378 | 981736 | 1838234 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[k]fluoranthene | PRY | Ave | 13324<br>3409970 | 96351<br>5831461 | 477323 | 1012039 | 2257039 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 131957

SDG No.: 68085534-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2012 11:16 Calibration End Date: 11/29/2012 13:06 Calibration ID: 2585

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Benzo[a]pyrene | PRY | Ave | 12852<br>3006349 | 77984<br>5430880 | 400993 | 932373 | 1927628 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Indeno[1,2,3-cd]pyrene | PRY | Ave | 13800<br>3057983 | 72548<br>5225135 | 366917 | 840278 | 1874545 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Dibenz(a,h)anthracene | PRY | Ave | 14299<br>2691969 | 78806<br>4817581 | 389928 | 876687 | 1776880 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[g,h,i]perylene | PRY | Ave | 14235<br>2997545 | 87883<br>5280071 | 448094 | 972643 | 1972638 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| o-Terphenyl | PHN | Ave | 7437<br>1437103 | 43855<br>2408846 | 220613 | 457252 | 933596 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29003.D
Lab Smp Id: IC-1473020
Inj Date : 29-NOV-2012 11:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1473020
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:46 BSMC5973.i Quant Type: ISTD
Cal Date : 29-NOV-2012 12:29 Cal File: 1CK29007.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 30.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.922 | 3.922 | (1.000) | 2245315 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.010 | 5.010 | (1.000) | 1553216 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.974 | 5.974 | (1.000) | 2757626 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.227 | 6.227 | (1.042) | 7437 | 0.20000 | 0.1898(a) |
| * 18 Chrysene-d12 | 240 | 7.933 | 7.933 | (1.000) | 3150514 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.204 | 9.204 | (1.000) | 3284638 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.933 | (1.003) | 13978 | 0.20000 | 0.2293(a) |
| 3 2-Methylnaphthalene | 142 | 4.357 | 4.357 | (1.111) | 7447 | 0.20000 | 0.2015(a) |
| 4 1-Methylnaphthalene | 142 | 4.422 | 4.422 | (1.127) | 7698 | 0.20000 | 0.2142(a) |
| 5 Acenaphthylene | 152 | 4.921 | 4.921 | (0.982) | 11723 | 0.20000 | 0.1913(a) |
| 7 Acenaphthene | 154 | 5.033 | 5.033 | (1.005) | 8747 | 0.20000 | 0.2300(a) |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 11466 | 0.20000 | 0.2332(a) |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.002) | 20855 | 0.20000 | 0.2595(a) |
| 12 Anthracene | 178 | 6.021 | 6.021 | (1.008) | 14409 | 0.20000 | 0.1939(a) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.127 | 6.127 | (1.026) | 16464 | 0.20000 | 0.2454(a) |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.144) | 17961 | 0.20000 | 0.2221(a) |
| 16 Pyrene | 202 | 7.004 | 7.004 | (0.883) | 15833 | 0.20000 | 0.1829(a) |
| 17 Benzo(a)anthracene | 228 | 7.927 | 7.927 | (0.999) | 21588 | 0.20000 | 0.2614(a) |
| 19 Chrysene | 228 | 7.951 | 7.951 | (1.002) | 20686 | 0.20000 | 0.2293(a) |
| 20 Benzo(b)fluoranthene | 252 | 8.821 | 8.821 | (0.958) | 18769 | 0.20000 | 0.2296(a) |
| 21 Benzo(k)fluoranthene | 252 | 8.845 | 8.845 | (0.961) | 13324 | 0.20000 | 0.1526(a) |
| 22 Benzo(a)pyrene | 252 | 9.145 | 9.145 | (0.994) | 12852 | 0.20000 | 0.1667(a) |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.498 | 10.498 | (1.141) | 13800 | 0.20000 | 0.1681(aM) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.515 | 10.515 | (1.143) | 14299 | 0.20000 | 0.1940(aM) |
| 26 Benzo(g,h,i)perylene | 276 | 10.898 | 10.898 | (1.184) | 14235 | 0.20000 | 0.1757(aM) |

QC Flag Legend

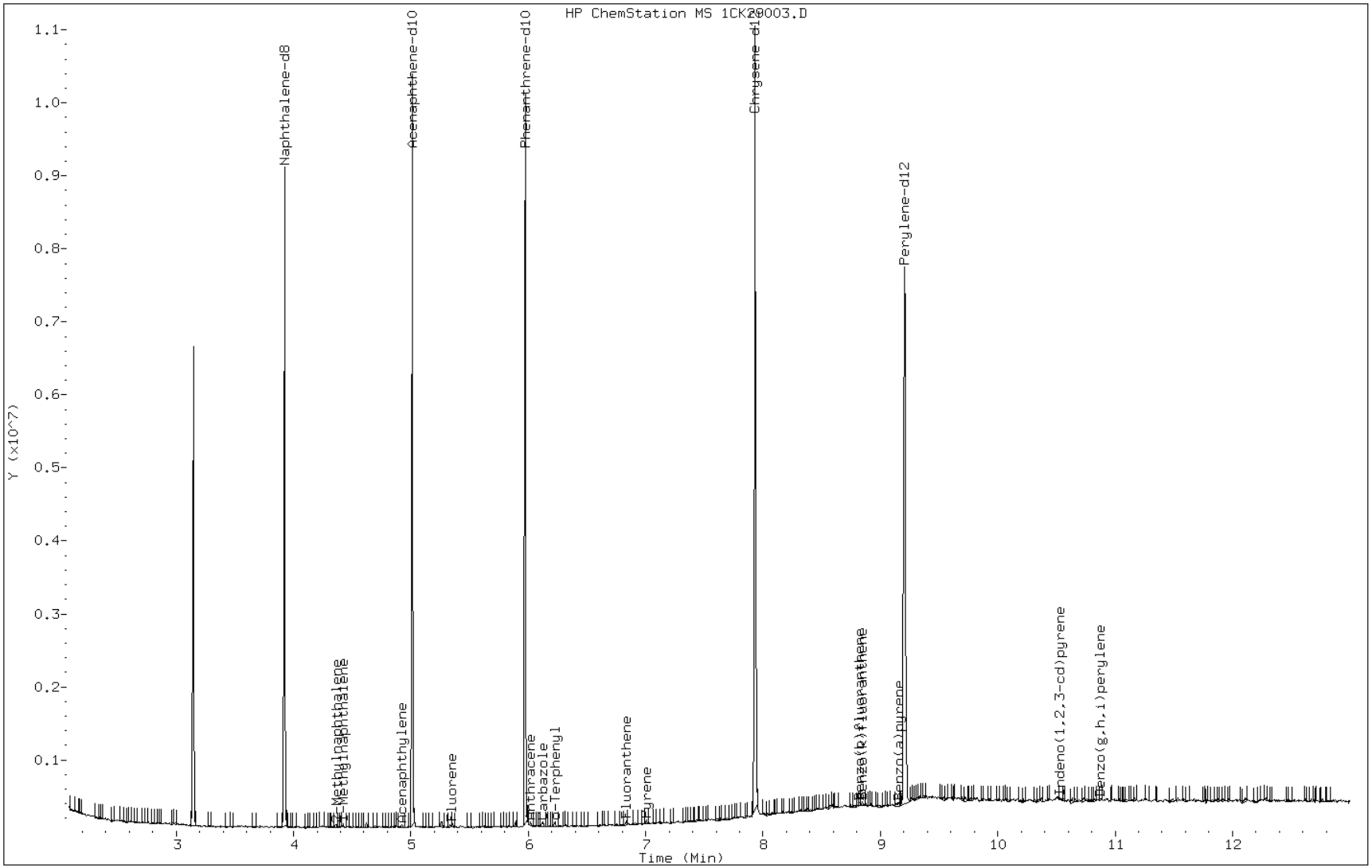
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1CK29003.D

Date: 29-NOV-2012 11:16

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1473020 Operator: SCC



Manual Integration Report

Data File: 1CK29003.D
Inj. Date and Time: 29-NOV-2012 11:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

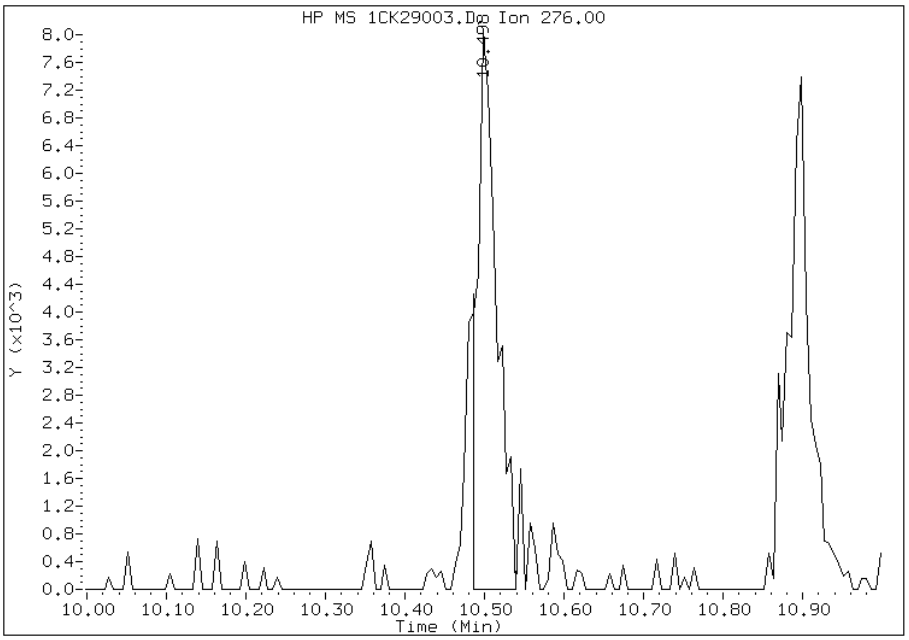
Processing Integration Results

RT: 10.50

Response: 13970

Amount: 0

Conc: 0



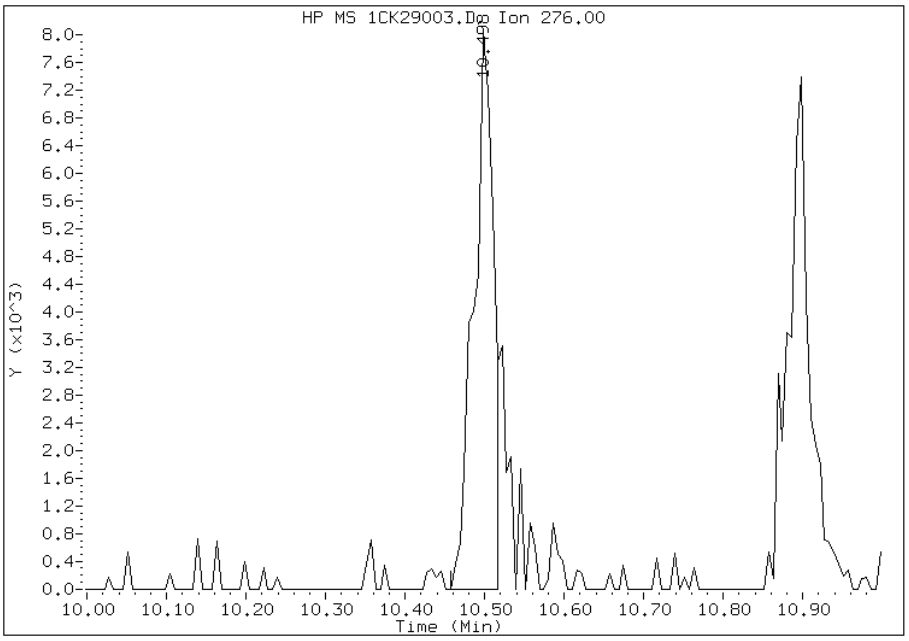

Manual Integration Results

RT: 10.50

Response: 13800

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29003.D
Inj. Date and Time: 29-NOV-2012 11:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/29/2012

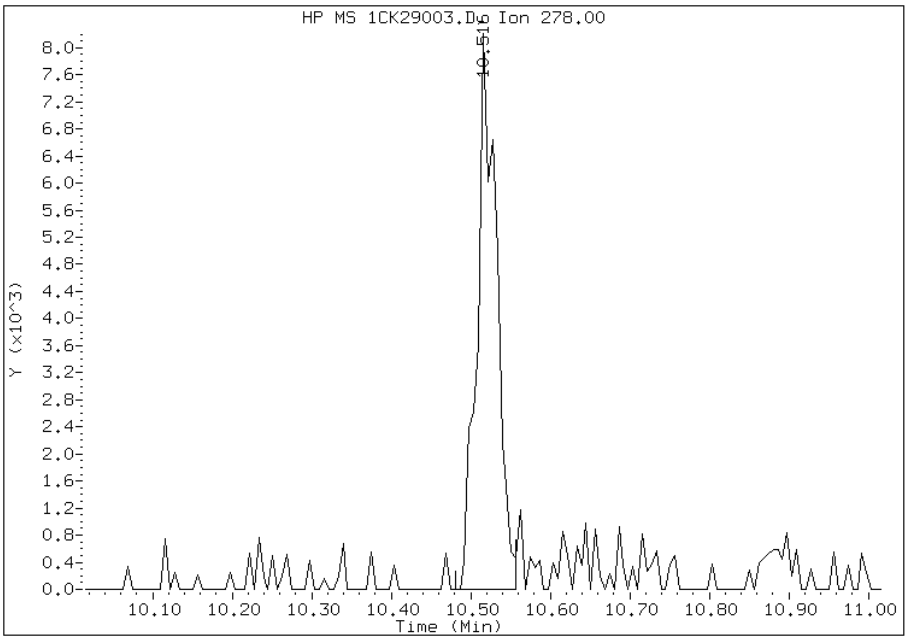
Processing Integration Results

RT: 10.52

Response: 13969

Amount: 0

Conc: 0



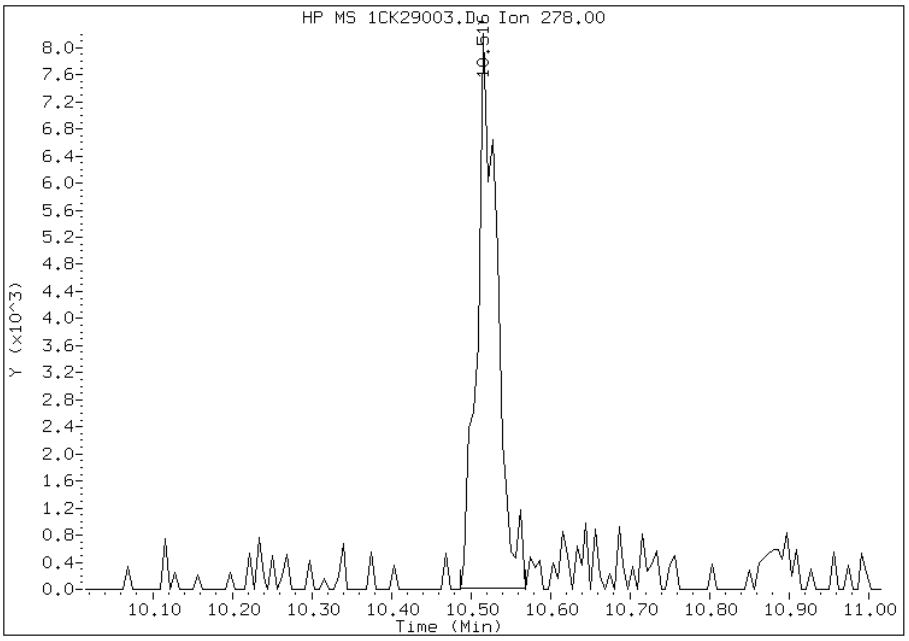

Manual Integration Results

RT: 10.52

Response: 14299

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29003.D
Inj. Date and Time: 29-NOV-2012 11:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/29/2012

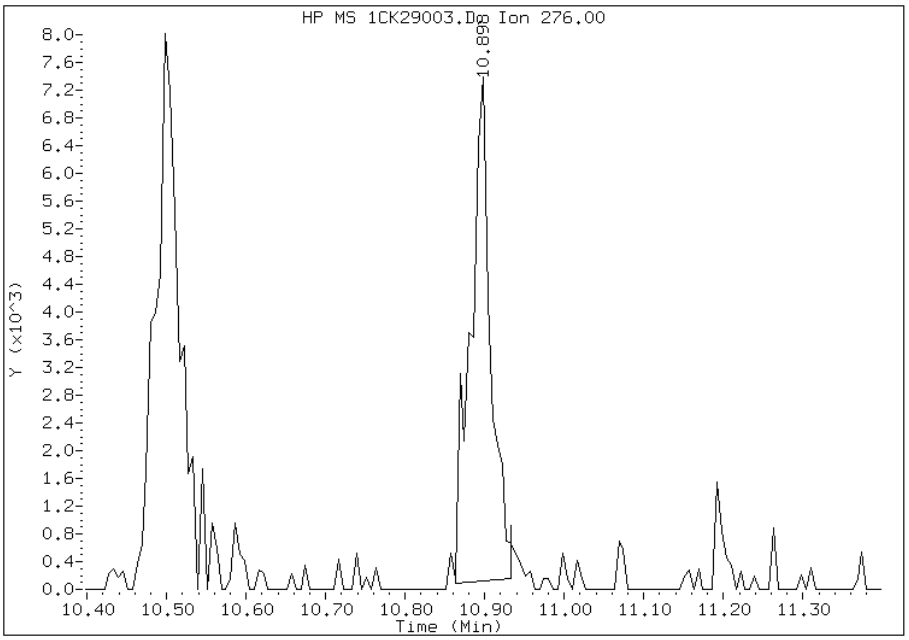
Processing Integration Results

RT: 10.90

Response: 12989

Amount: 0

Conc: 0



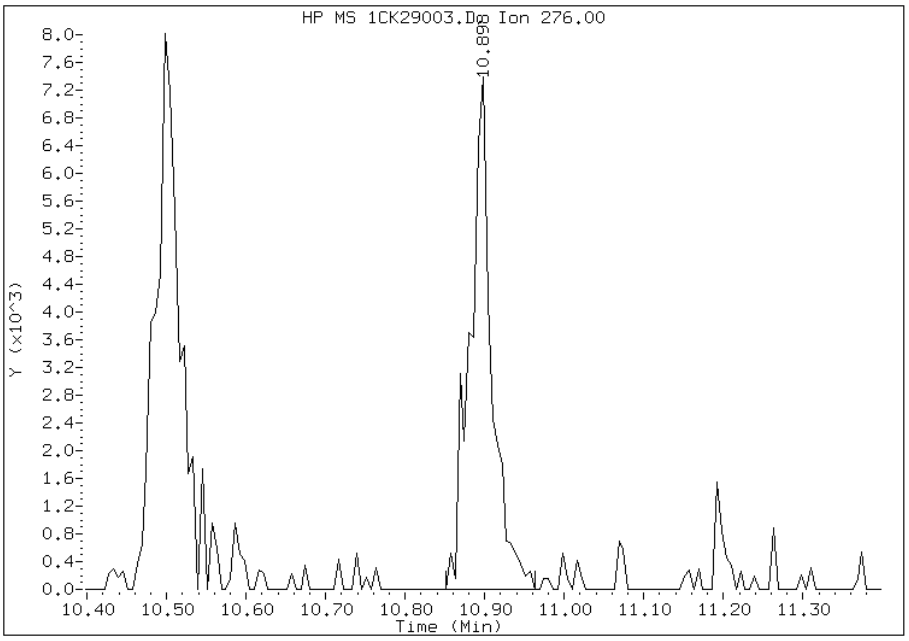

Manual Integration Results

RT: 10.90

Response: 14235

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29004.D
Lab Smp Id: IC-1473021
Inj Date : 29-NOV-2012 11:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1473021
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:46 BSMC5973.i Quant Type: ISTD
Cal Date : 29-NOV-2012 11:16 Cal File: 1CK29003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 30.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.921 | 3.921 | (1.000) | 2524113 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.010 | 5.010 | (1.000) | 1724403 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.974 | 5.974 | (1.000) | 3172900 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.227 | 6.227 | (1.042) | 43855 | 1.00000 | 0.9732(a) |
| * 18 Chrysene-d12 | 240 | 7.927 | 7.927 | (1.000) | 3555081 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.203 | 9.203 | (1.000) | 3735492 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.933 | (1.003) | 69240 | 1.00000 | 1.0106(a) |
| 3 2-Methylnaphthalene | 142 | 4.357 | 4.357 | (1.111) | 40061 | 1.00000 | 0.9644(a) |
| 4 1-Methylnaphthalene | 142 | 4.421 | 4.421 | (1.127) | 39564 | 1.00000 | 0.9793(a) |
| 5 Acenaphthylene | 152 | 4.921 | 4.921 | (0.982) | 63222 | 1.00000 | 0.9294(a) |
| 7 Acenaphthene | 154 | 5.027 | 5.027 | (1.004) | 38699 | 1.00000 | 0.9168(a) |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 52404 | 1.00000 | 0.9602(a) |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.002) | 86476 | 1.00000 | 0.9355(a) |
| 12 Anthracene | 178 | 6.021 | 6.021 | (1.008) | 83975 | 1.00000 | 0.9826(a) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.127 | 6.127 | (1.026) | 70391 | 1.00000 | 0.9121(a) |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.144) | 82856 | 1.00000 | 0.8906(a) |
| 16 Pyrene | 202 | 7.004 | 7.004 | (0.884) | 90605 | 1.00000 | 0.9276(a) |
| 17 Benzo(a)anthracene | 228 | 7.921 | 7.921 | (0.999) | 87450 | 1.00000 | 0.9384(a) |
| 19 Chrysene | 228 | 7.945 | 7.945 | (1.002) | 102821 | 1.00000 | 1.0102(a) |
| 20 Benzo(b)fluoranthene | 252 | 8.815 | 8.815 | (0.958) | 82550 | 1.00000 | 0.8879(a) |
| 21 Benzo(k)fluoranthene | 252 | 8.845 | 8.845 | (0.961) | 96351 | 1.00000 | 0.9708(a) |
| 22 Benzo(a)pyrene | 252 | 9.139 | 9.139 | (0.993) | 77984 | 1.00000 | 0.8895(a) |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.492 | 10.492 | (1.140) | 72548 | 1.00000 | 0.7772(aM) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.509 | 10.509 | (1.142) | 78806 | 1.00000 | 0.9402(aM) |
| 26 Benzo(g,h,i)perylene | 276 | 10.880 | 10.880 | (1.182) | 87883 | 1.00000 | 0.9542(aM) |

QC Flag Legend

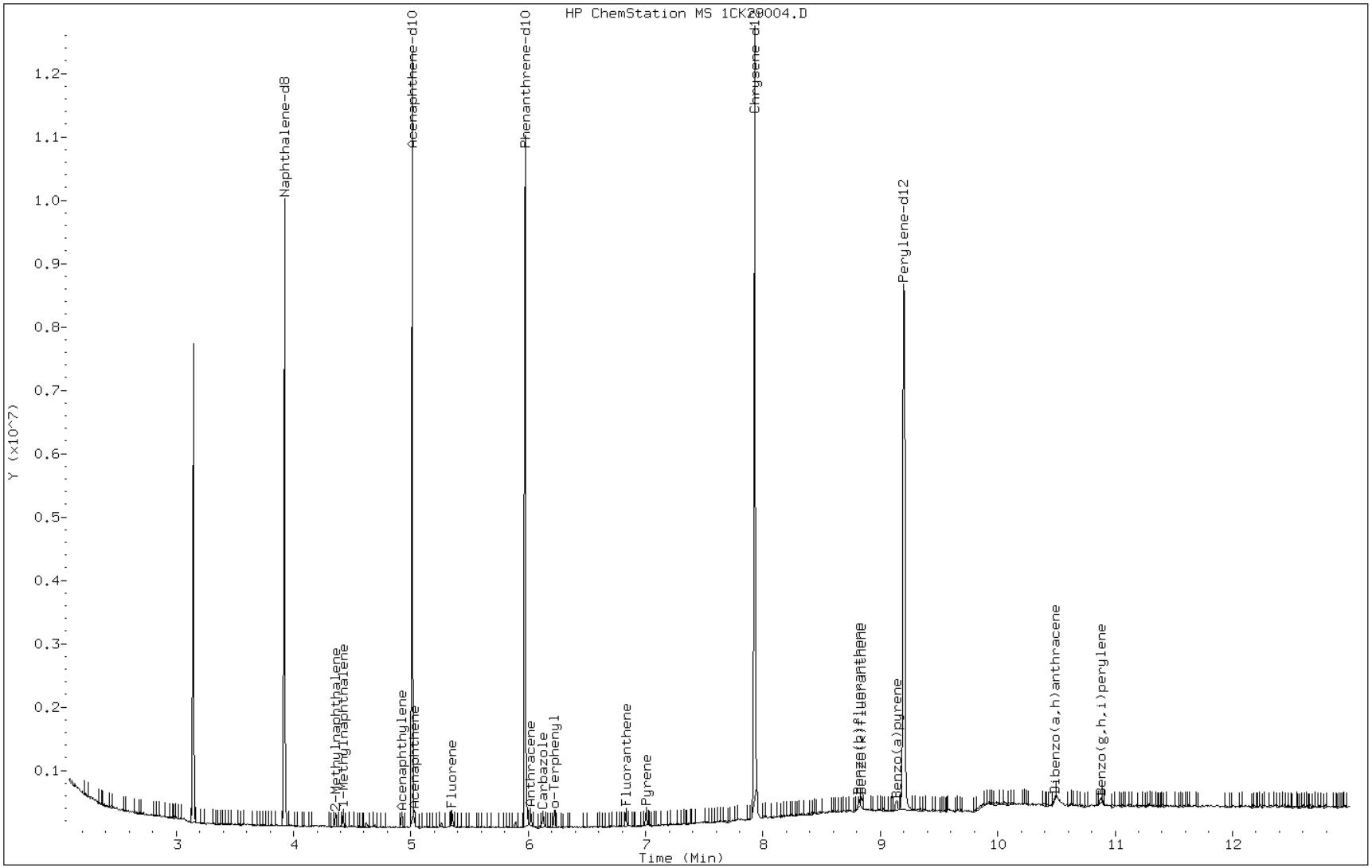
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1CK29004.D

Date: 29-NOV-2012 11:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1473021 Operator: SCC



Manual Integration Report

Data File: 1CK29004.D
Inj. Date and Time: 29-NOV-2012 11:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

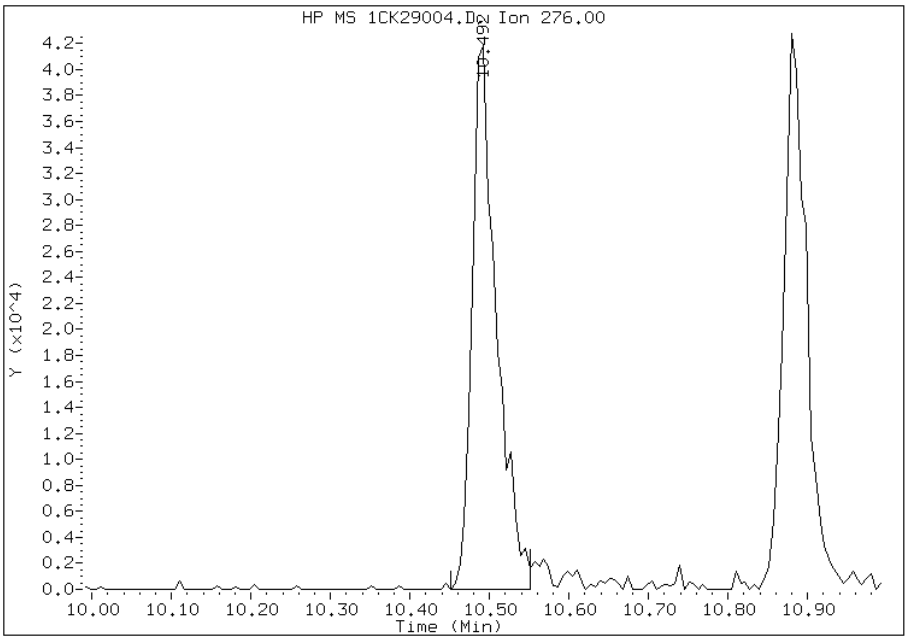
Processing Integration Results

RT: 10.49

Response: 89482

Amount: 1

Conc: 1



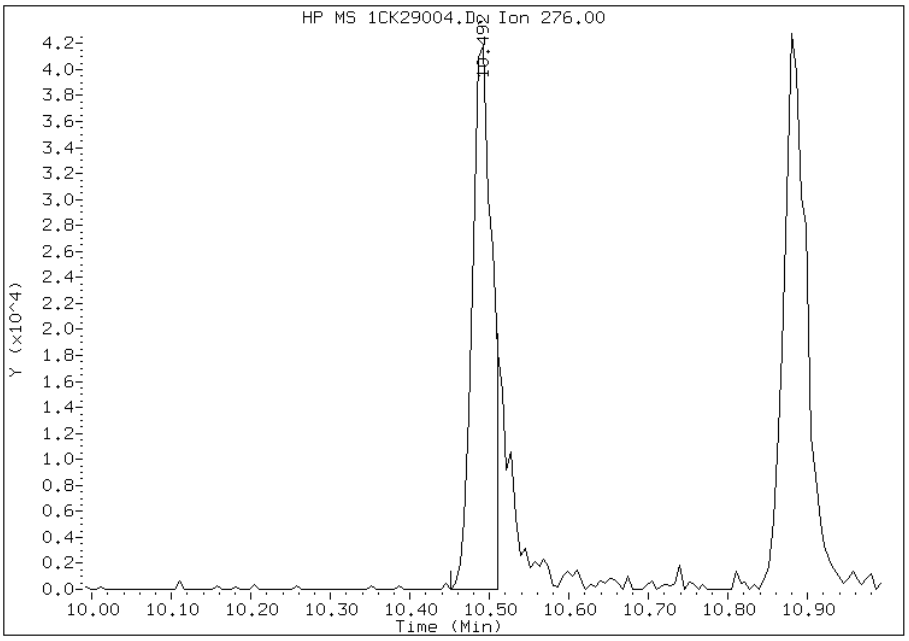

Manual Integration Results

RT: 10.49

Response: 72548

Amount: 1

Conc: 1




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CK29004.D
Inj. Date and Time: 29-NOV-2012 11:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/29/2012

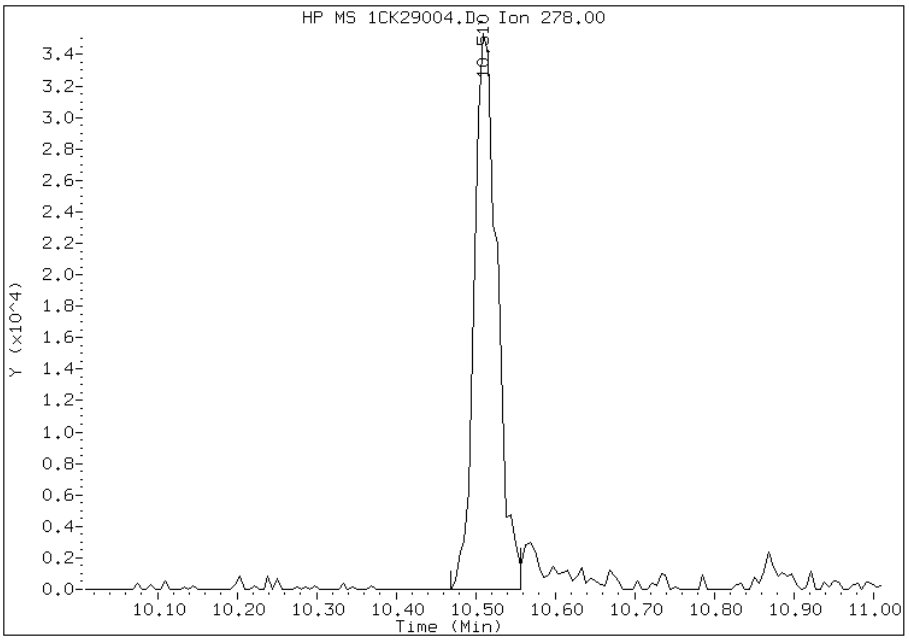
Processing Integration Results

RT: 10.51

Response: 70811

Amount: 1

Conc: 1



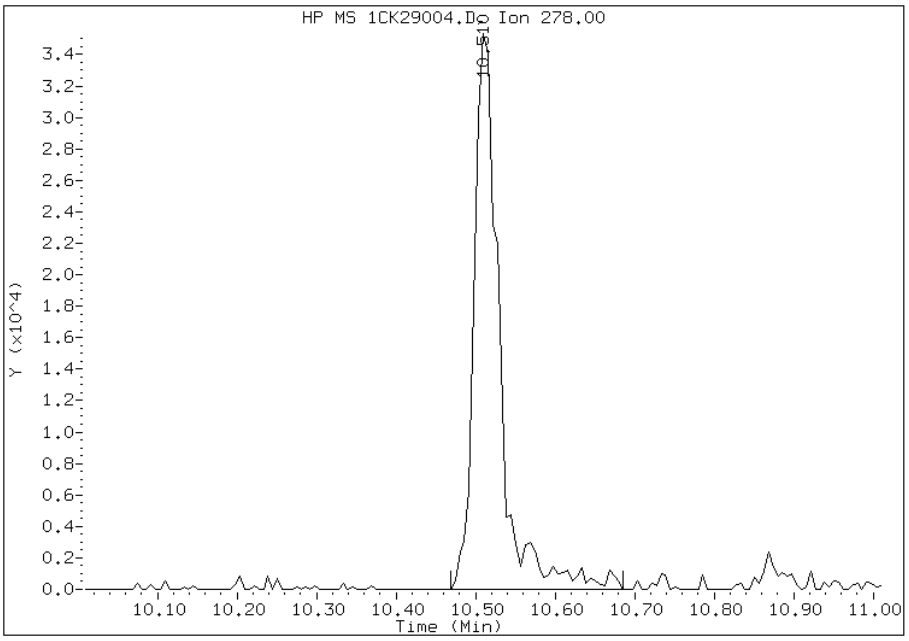

Manual Integration Results

RT: 10.51

Response: 78806

Amount: 1

Conc: 1




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29004.D
Inj. Date and Time: 29-NOV-2012 11:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/29/2012

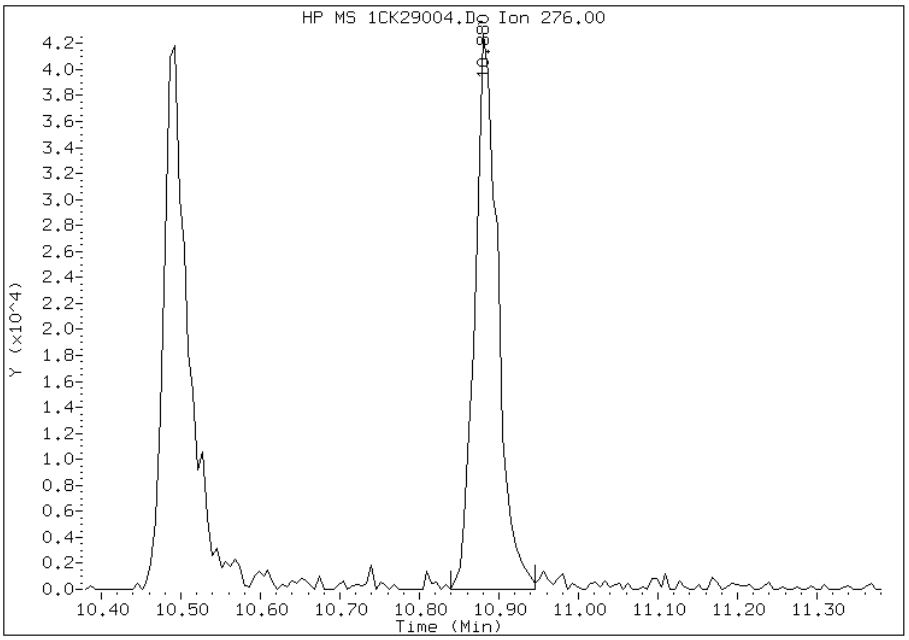
Processing Integration Results

RT: 10.88

Response: 86020

Amount: 1

Conc: 1



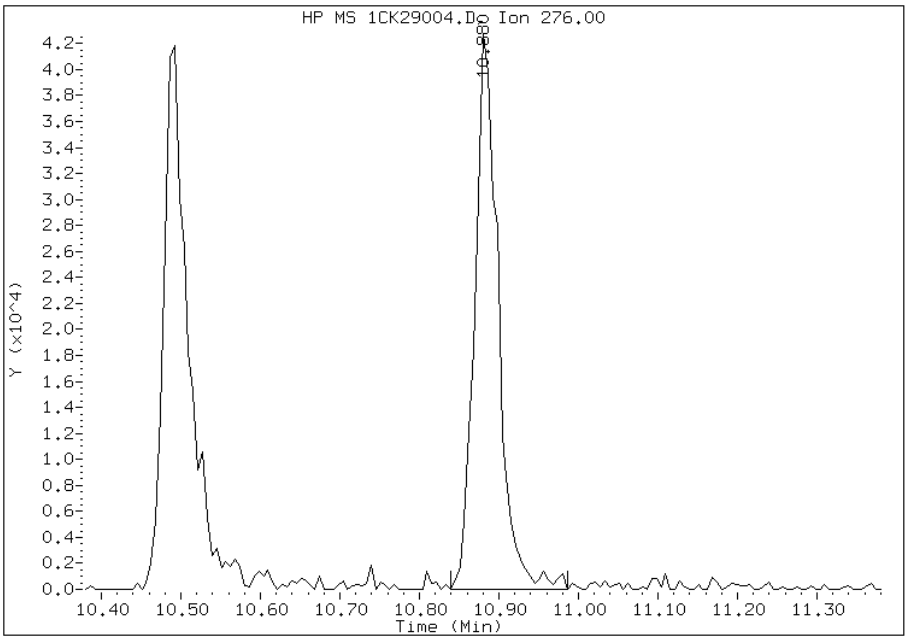

Manual Integration Results

RT: 10.88

Response: 87883

Amount: 1

Conc: 1




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29005.D
Lab Smp Id: IC-1473022
Inj Date : 29-NOV-2012 11:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1473022
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:46 BSMC5973.i Quant Type: ISTD
Cal Date : 29-NOV-2012 11:34 Cal File: 1CK29004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 30.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.921 | 3.921 | (1.000) | 2429253 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.010 | 5.010 | (1.000) | 1651935 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.974 | 5.974 | (1.000) | 2916785 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.227 | 6.227 | (1.042) | 220613 | 5.00000 | 5.3257 |
| * 18 Chrysene-d12 | 240 | 7.927 | 7.927 | (1.000) | 3330274 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.198 | 9.198 | (1.000) | 3472865 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.933 | (1.003) | 324866 | 5.00000 | 4.9271 |
| 3 2-Methylnaphthalene | 142 | 4.357 | 4.357 | (1.111) | 204034 | 5.00000 | 5.1038(a) |
| 4 1-Methylnaphthalene | 142 | 4.421 | 4.421 | (1.127) | 198564 | 5.00000 | 5.1068 |
| 5 Acenaphthylene | 152 | 4.921 | 4.921 | (0.982) | 330727 | 5.00000 | 5.0756 |
| 7 Acenaphthene | 154 | 5.027 | 5.027 | (1.004) | 209692 | 5.00000 | 5.1859 |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 257635 | 5.00000 | 4.9281 |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.002) | 427074 | 5.00000 | 5.0259 |
| 12 Anthracene | 178 | 6.021 | 6.021 | (1.008) | 396685 | 5.00000 | 5.0492 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.127 | 6.127 | (1.026) | 332927 | 5.00000 | 4.6931(a) |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.144) | 422690 | 5.00000 | 4.9425 |
| 16 Pyrene | 202 | 7.004 | 7.004 | (0.884) | 484688 | 5.00000 | 5.2973 |
| 17 Benzo(a)anthracene | 228 | 7.921 | 7.921 | (0.999) | 418151 | 5.00000 | 4.7902 |
| 19 Chrysene | 228 | 7.951 | 7.951 | (1.003) | 472184 | 5.00000 | 4.9525 |
| 20 Benzo(b)fluoranthene | 252 | 8.815 | 8.815 | (0.958) | 403378 | 5.00000 | 4.6672 |
| 21 Benzo(k)fluoranthene | 252 | 8.839 | 8.839 | (0.961) | 477323 | 5.00000 | 5.1733 |
| 22 Benzo(a)pyrene | 252 | 9.139 | 9.139 | (0.994) | 400993 | 5.00000 | 4.9200 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.492 | 10.492 | (1.141) | 366917 | 5.00000 | 4.2280(aM) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.509 | 10.509 | (1.143) | 389928 | 5.00000 | 5.0040(M) |
| 26 Benzo(g,h,i)perylene | 276 | 10.880 | 10.880 | (1.183) | 448094 | 5.00000 | 5.2331(M) |

QC Flag Legend

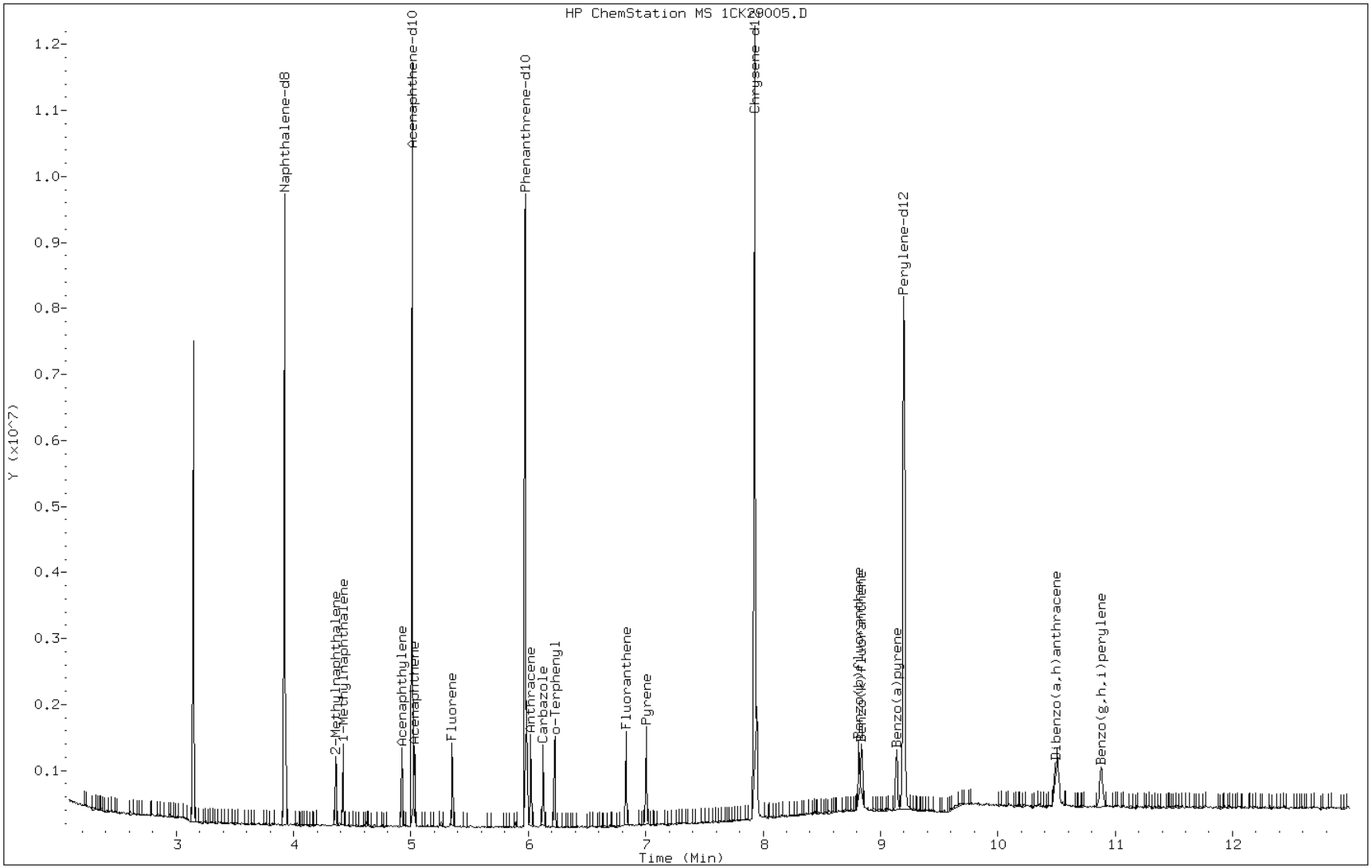
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1CK29005.D

Date: 29-NOV-2012 11:53

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1473022 Operator: SCC



Manual Integration Report

Data File: 1CK29005.D
Inj. Date and Time: 29-NOV-2012 11:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

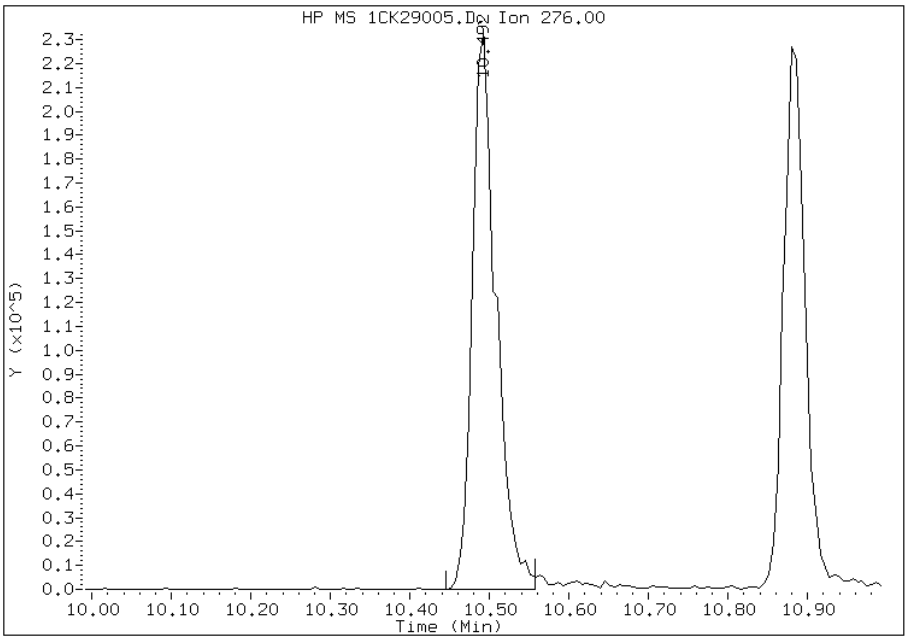
Processing Integration Results

RT: 10.49

Response: 483128

Amount: 5

Conc: 5



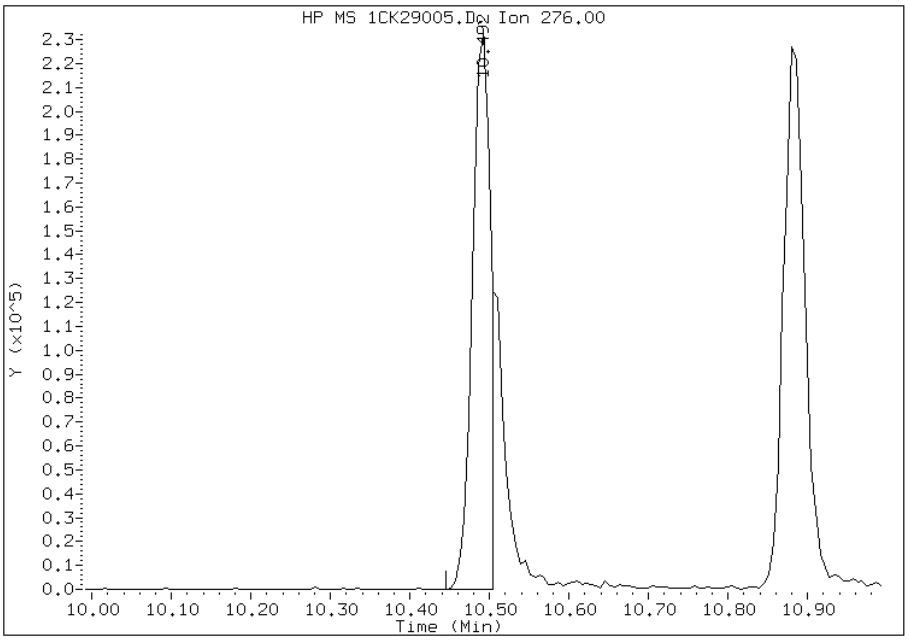

Manual Integration Results

RT: 10.49

Response: 366917

Amount: 4

Conc: 4




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CK29005.D
Inj. Date and Time: 29-NOV-2012 11:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/29/2012

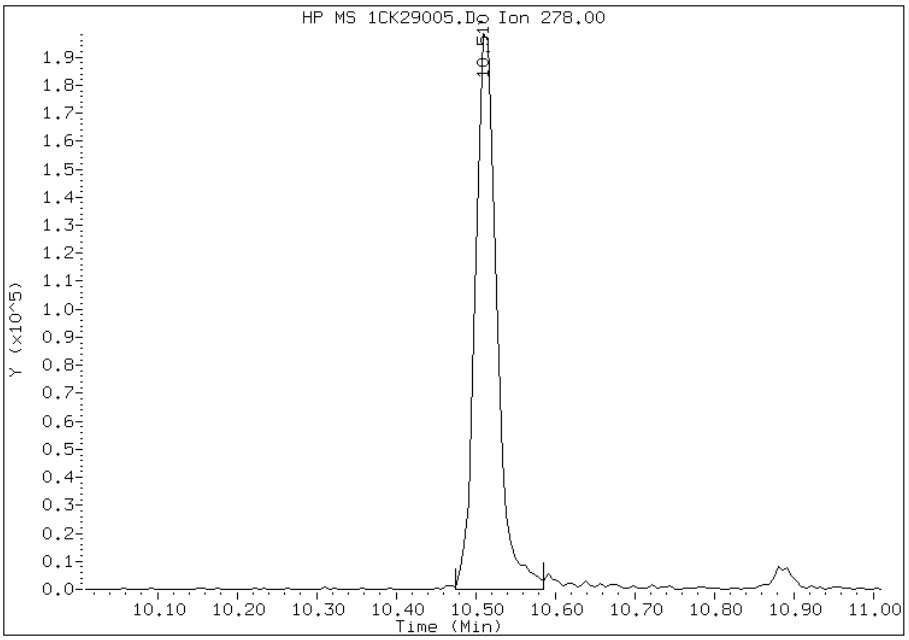
Processing Integration Results

RT: 10.51

Response: 374537

Amount: 5

Conc: 5



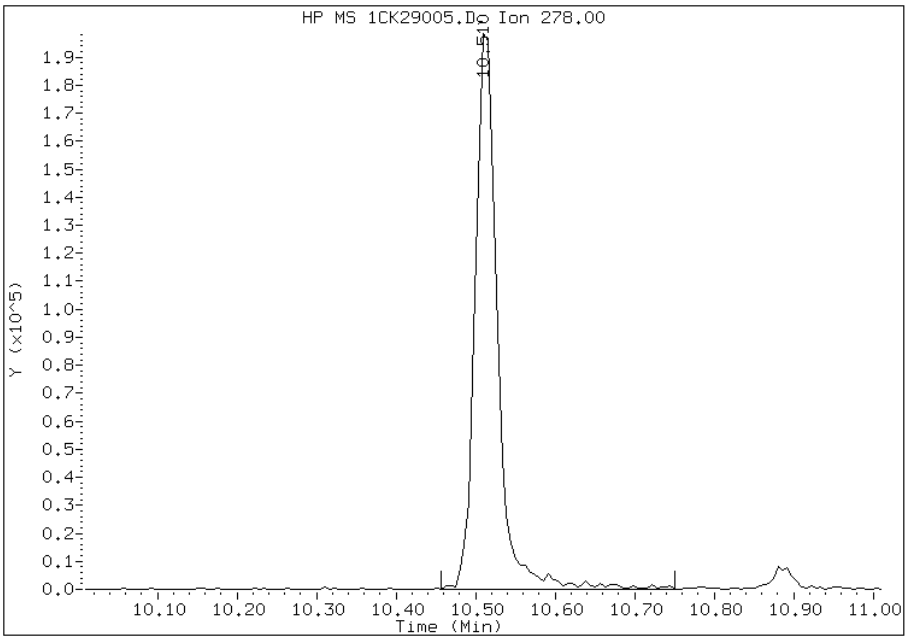

Manual Integration Results

RT: 10.51

Response: 389928

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29005.D
Inj. Date and Time: 29-NOV-2012 11:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/29/2012

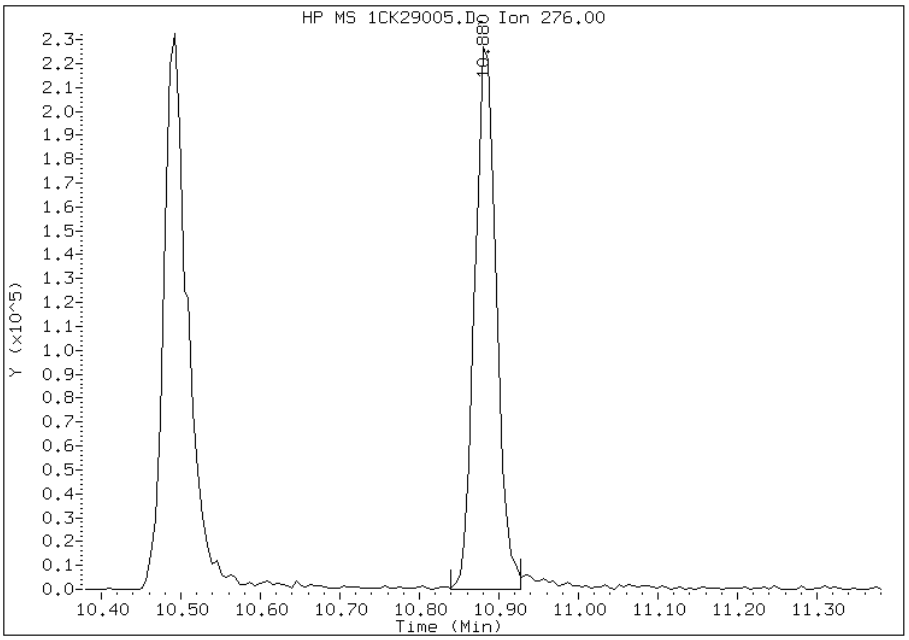
Processing Integration Results

RT: 10.88

Response: 425982

Amount: 5

Conc: 5



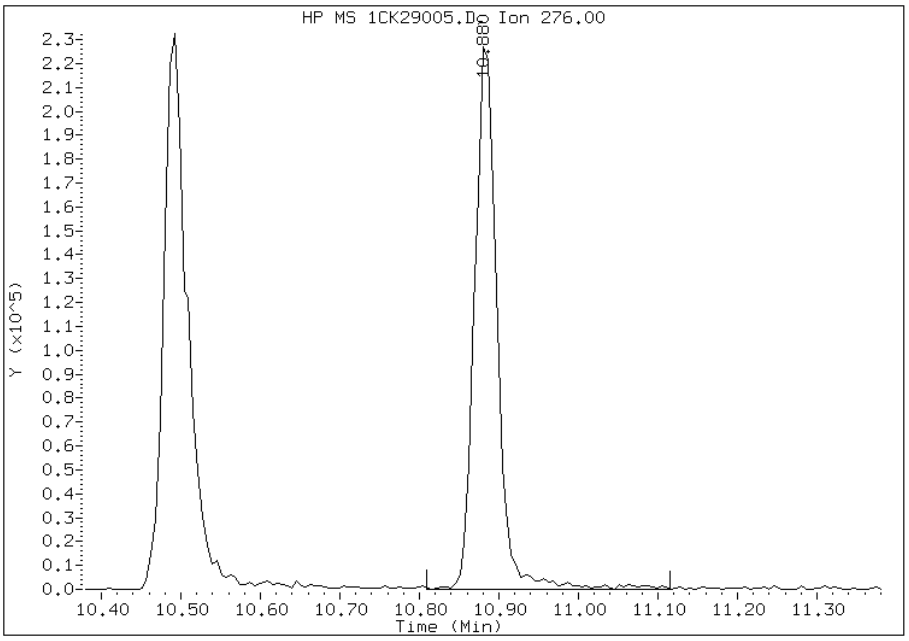

Manual Integration Results

RT: 10.88

Response: 448094

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29006.D
Lab Smp Id: IC-1473023
Inj Date : 29-NOV-2012 12:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1473023
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:46 BSMC5973.i Quant Type: ISTD
Cal Date : 29-NOV-2012 11:53 Cal File: 1CK29005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 30.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.921 | 3.921 | (1.000) | 2604703 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.009 | 5.009 | (1.000) | 1751046 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.974 | 5.974 | (1.000) | 3216824 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.227 | 6.227 | (1.042) | 457252 | 10.0000 | 10.0088 |
| * 18 Chrysene-d12 | 240 | 7.927 | 7.927 | (1.000) | 3715374 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.203 | 9.203 | (1.000) | 3790337 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.933 | (1.003) | 680961 | 10.0000 | 9.6322 |
| 3 2-Methylnaphthalene | 142 | 4.362 | 4.362 | (1.112) | 426172 | 10.0000 | 9.9425 |
| 4 1-Methylnaphthalene | 142 | 4.421 | 4.421 | (1.127) | 414976 | 10.0000 | 9.9538 |
| 5 Acenaphthylene | 152 | 4.921 | 4.921 | (0.982) | 724377 | 10.0000 | 10.4877 |
| 7 Acenaphthene | 154 | 5.027 | 5.027 | (1.004) | 426719 | 10.0000 | 9.9560 |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 558078 | 10.0000 | 10.0709 |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.002) | 899379 | 10.0000 | 9.5969 |
| 12 Anthracene | 178 | 6.021 | 6.021 | (1.008) | 867454 | 10.0000 | 10.0116 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.127 | 6.127 | (1.026) | 777040 | 10.0000 | 9.9319(a) |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.144) | 938703 | 10.0000 | 9.9526 |
| 16 Pyrene | 202 | 7.003 | 7.003 | (0.884) | 1059849 | 10.0000 | 10.3827 |
| 17 Benzo(a)anthracene | 228 | 7.921 | 7.921 | (0.999) | 934395 | 10.0000 | 9.5948 |
| 19 Chrysene | 228 | 7.950 | 7.950 | (1.003) | 1069648 | 10.0000 | 10.0563 |
| 20 Benzo(b)fluoranthene | 252 | 8.821 | 8.821 | (0.958) | 981736 | 10.0000 | 10.4077 |
| 21 Benzo(k)fluoranthene | 252 | 8.845 | 8.845 | (0.961) | 1012039 | 10.0000 | 10.0500 |
| 22 Benzo(a)pyrene | 252 | 9.139 | 9.139 | (0.993) | 932373 | 10.0000 | 10.4816 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.491 | 10.491 | (1.140) | 840278 | 10.0000 | 8.8717(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.515 | 10.515 | (1.143) | 876687 | 10.0000 | 10.3084(M) |
| 26 Benzo(g,h,i)perylene | 276 | 10.886 | 10.886 | (1.183) | 972643 | 10.0000 | 10.4078(M) |

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1CK29006.D

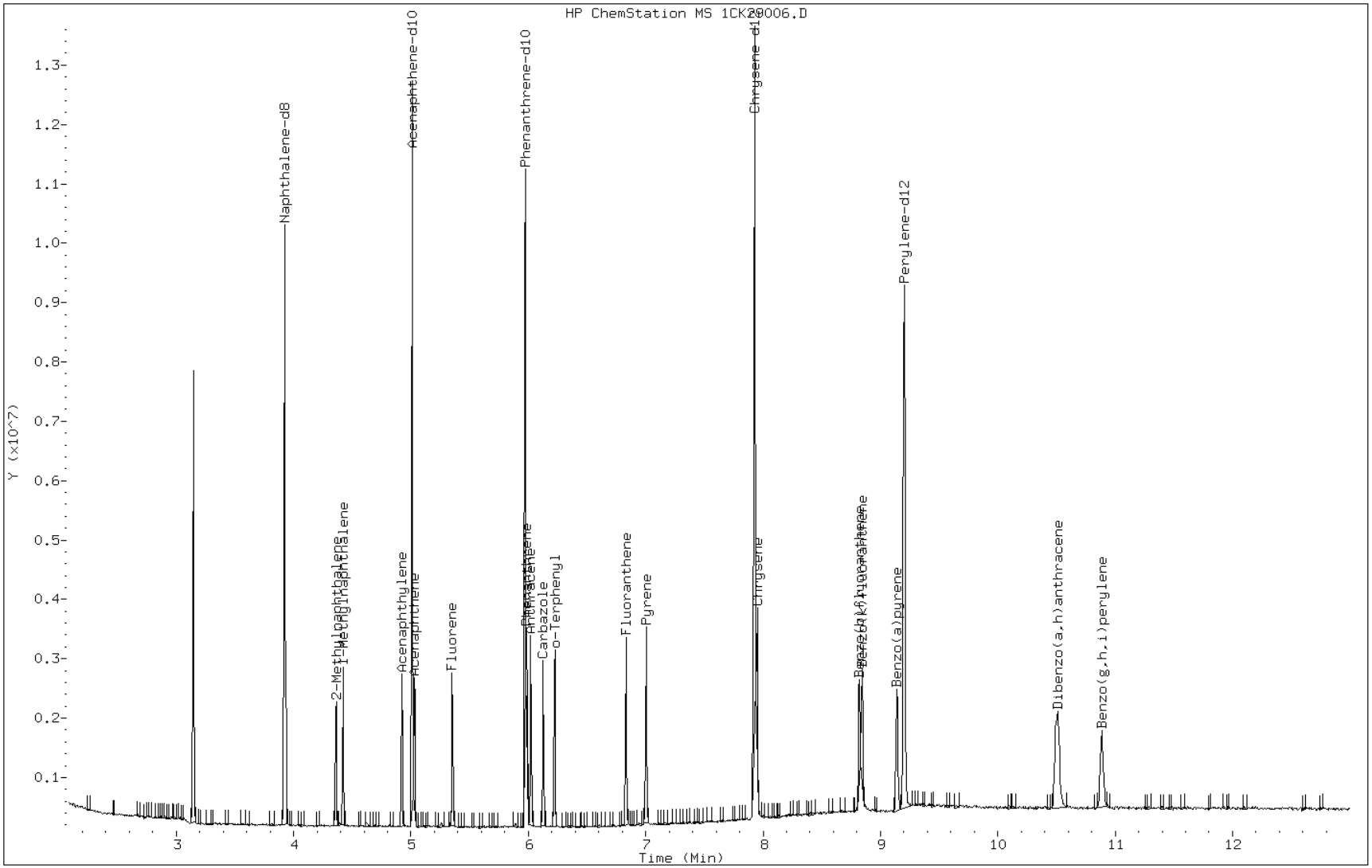
Date: 29-NOV-2012 12:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1473023

Operator: SCC



Manual Integration Report

Data File: 1CK29006.D
Inj. Date and Time: 29-NOV-2012 12:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

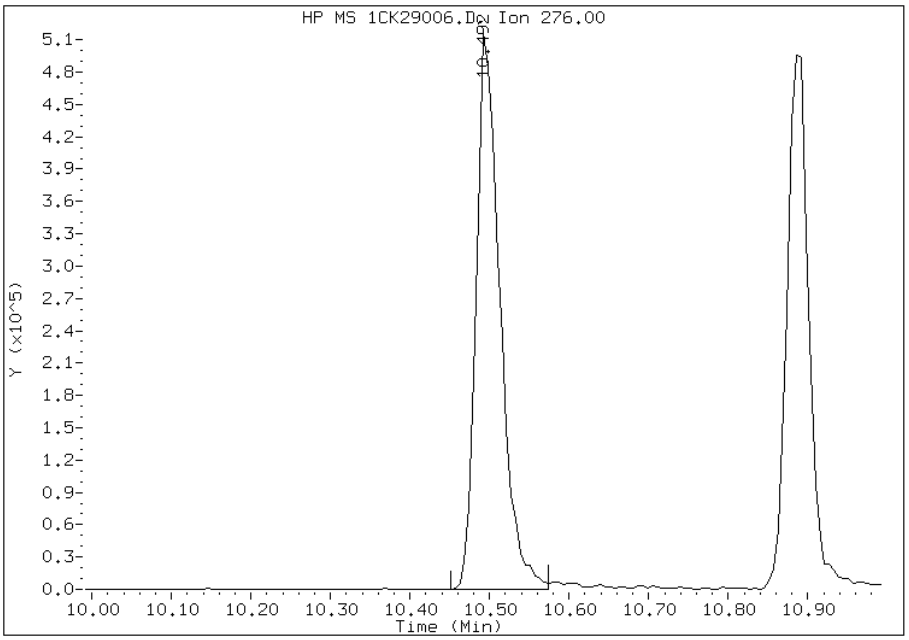
Processing Integration Results

RT: 10.49

Response: 1069358

Amount: 10

Conc: 10



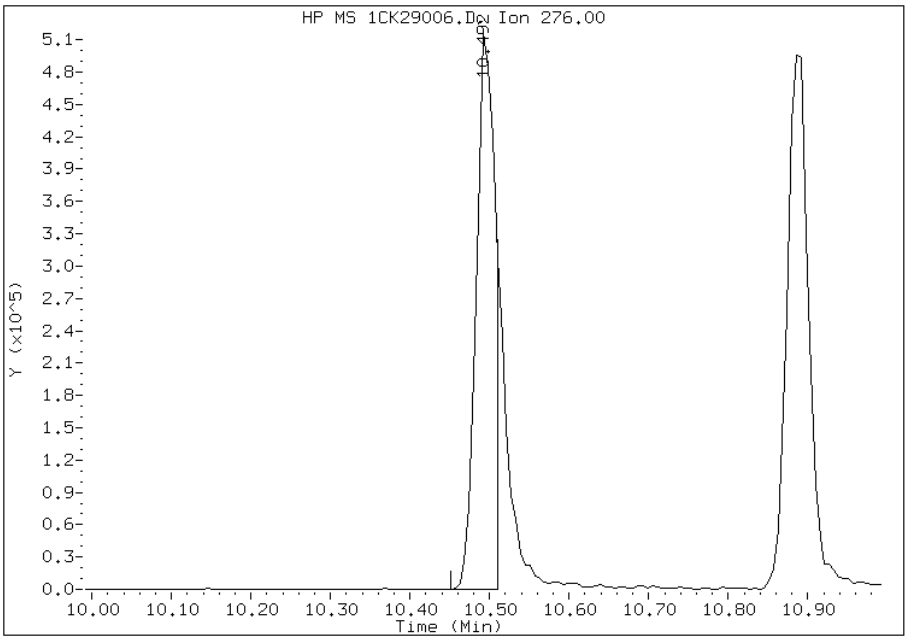

Manual Integration Results

RT: 10.49

Response: 840278

Amount: 9

Conc: 9




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CK29006.D
Inj. Date and Time: 29-NOV-2012 12:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/29/2012

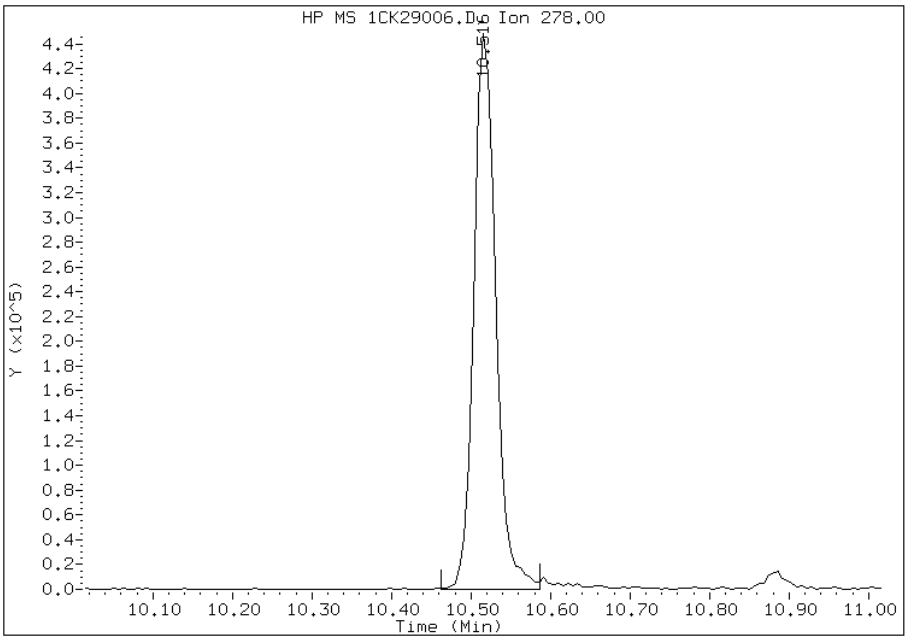
Processing Integration Results

RT: 10.52

Response: 851177

Amount: 10

Conc: 10



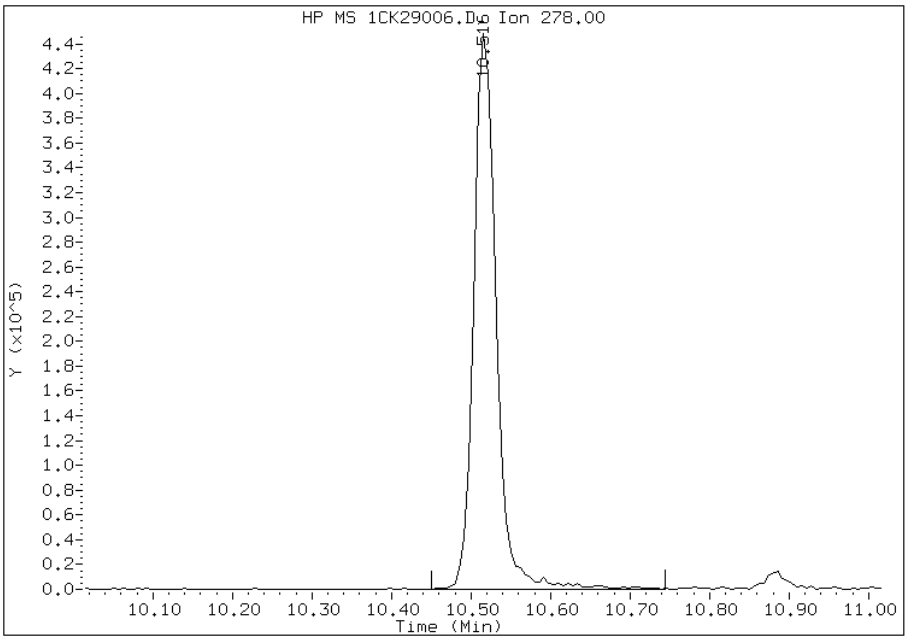

Manual Integration Results

RT: 10.52

Response: 876687

Amount: 10

Conc: 10




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29006.D
Inj. Date and Time: 29-NOV-2012 12:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/29/2012

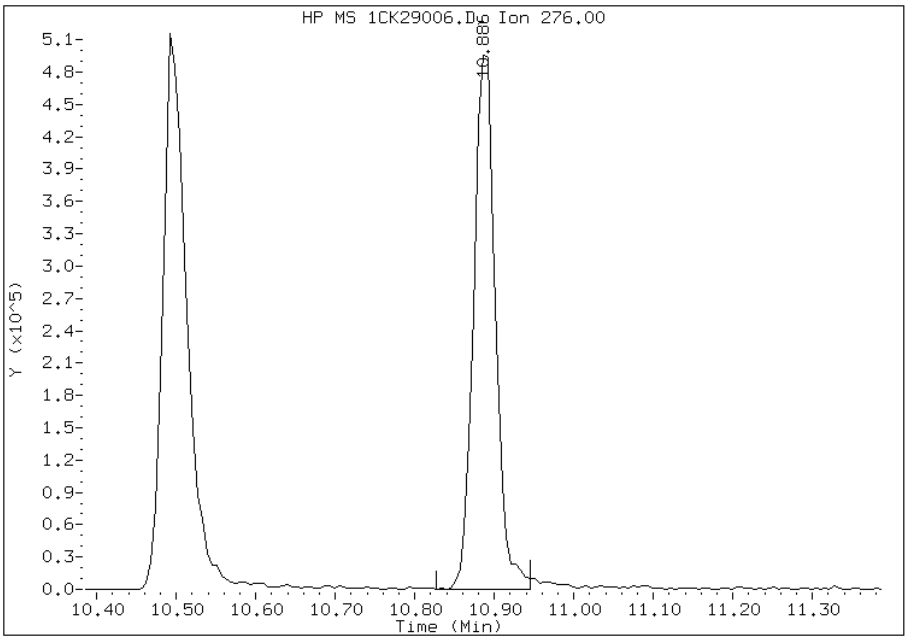
Processing Integration Results

RT: 10.89

Response: 940753

Amount: 10

Conc: 10



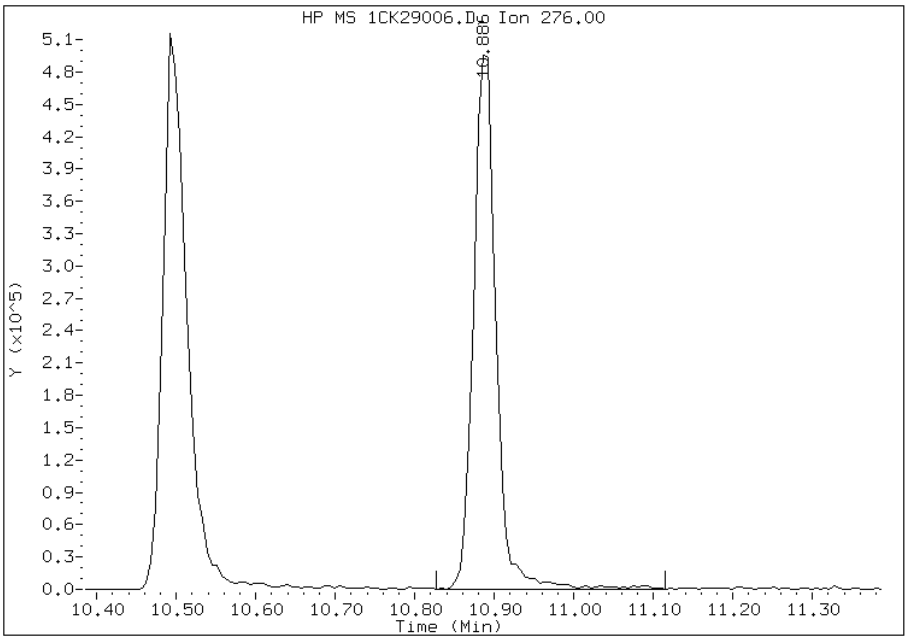

Manual Integration Results

RT: 10.89

Response: 972643

Amount: 10

Conc: 10




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:41
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29007.D
Lab Smp Id: IC-1473024
Inj Date : 29-NOV-2012 12:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:46 BSMC5973.i Quant Type: ISTD
Cal Date : 29-NOV-2012 12:11 Cal File: 1CK29006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 30.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.921 | 3.921 | (1.000) | 2622521 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.010 | 5.010 | (1.000) | 1831110 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.974 | 5.974 | (1.000) | 3246599 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.227 | 6.227 | (1.042) | 933596 | 20.0000 | 20.2481 |
| * 18 Chrysene-d12 | 240 | 7.927 | 7.927 | (1.000) | 3719237 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.198 | 9.198 | (1.000) | 3931415 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.933 | (1.003) | 1357812 | 20.0000 | 19.0758 |
| 3 2-Methylnaphthalene | 142 | 4.363 | 4.363 | (1.112) | 858582 | 20.0000 | 19.8945 |
| 4 1-Methylnaphthalene | 142 | 4.421 | 4.421 | (1.127) | 827525 | 20.0000 | 19.7145 |
| 5 Acenaphthylene | 152 | 4.921 | 4.921 | (0.982) | 1433121 | 20.0000 | 19.8420 |
| 7 Acenaphthene | 154 | 5.027 | 5.027 | (1.004) | 850977 | 20.0000 | 18.9864 |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 1099143 | 20.0000 | 18.9677 |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.002) | 1757192 | 20.0000 | 18.5783 |
| 12 Anthracene | 178 | 6.021 | 6.021 | (1.008) | 1782845 | 20.0000 | 20.3877 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.127 | 6.127 | (1.026) | 1524176 | 20.0000 | 19.3030(a) |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.144) | 1882387 | 20.0000 | 19.7750 |
| 16 Pyrene | 202 | 7.004 | 7.004 | (0.884) | 2063058 | 20.0000 | 20.1897 |
| 17 Benzo(a)anthracene | 228 | 7.921 | 7.921 | (0.999) | 1854304 | 20.0000 | 19.0210 |
| 19 Chrysene | 228 | 7.951 | 7.951 | (1.003) | 2000326 | 20.0000 | 18.7865 |
| 20 Benzo(b)fluoranthene | 252 | 8.815 | 8.815 | (0.958) | 1838234 | 20.0000 | 18.7884 |
| 21 Benzo(k)fluoranthene | 252 | 8.845 | 8.845 | (0.962) | 2257039 | 20.0000 | 21.6092 |
| 22 Benzo(a)pyrene | 252 | 9.139 | 9.139 | (0.994) | 1927628 | 20.0000 | 20.8926 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.492 | 10.492 | (1.141) | 1874545 | 20.0000 | 19.0813(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.515 | 10.515 | (1.143) | 1776880 | 20.0000 | 20.1435(M) |
| 26 Benzo(g,h,i)perylene | 276 | 10.886 | 10.886 | (1.184) | 1972638 | 20.0000 | 20.3509(M) |

QC Flag Legend

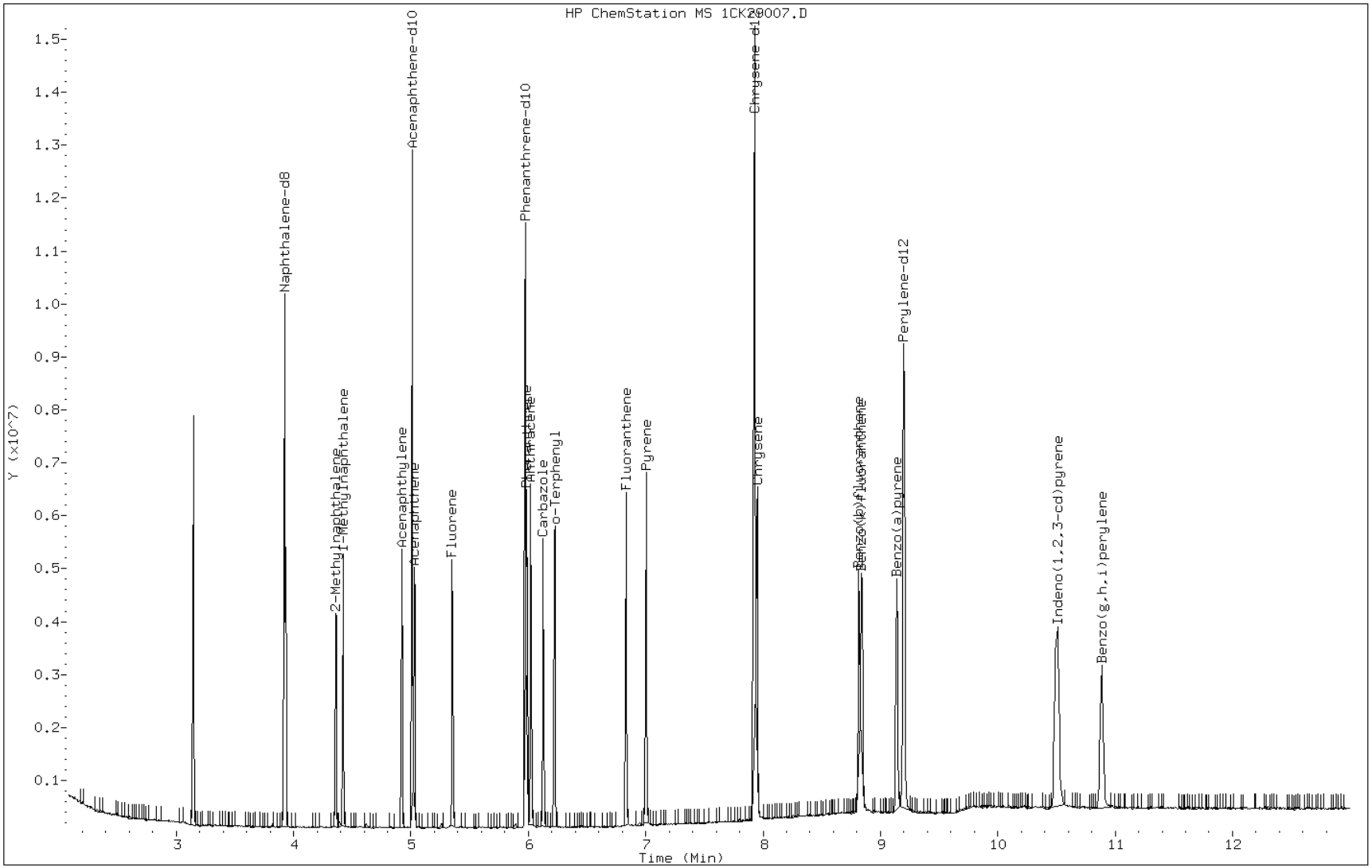
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1CK29007.D

Date: 29-NOV-2012 12:29

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1473024 Operator: SCC



Manual Integration Report

Data File: 1CK29007.D
Inj. Date and Time: 29-NOV-2012 12:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

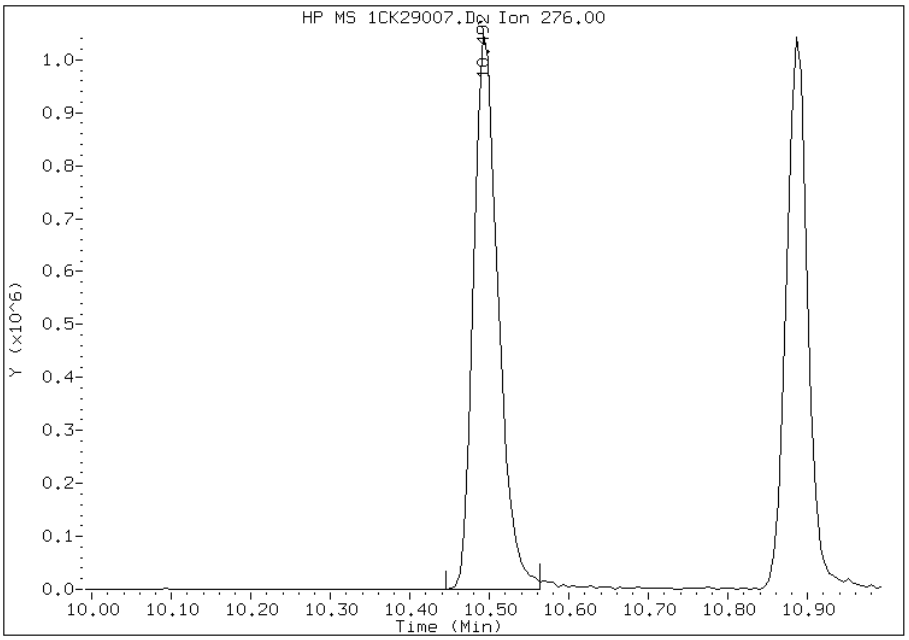
Processing Integration Results

RT: 10.49

Response: 2250348

Amount: 24

Conc: 24



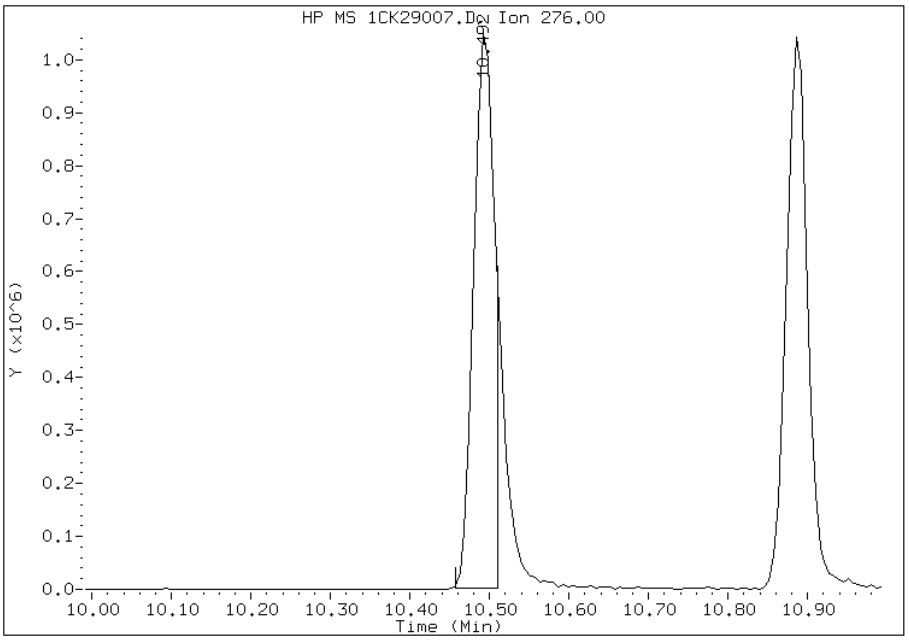

Manual Integration Results

RT: 10.49

Response: 1874545

Amount: 19

Conc: 19




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CK29007.D
Inj. Date and Time: 29-NOV-2012 12:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/29/2012

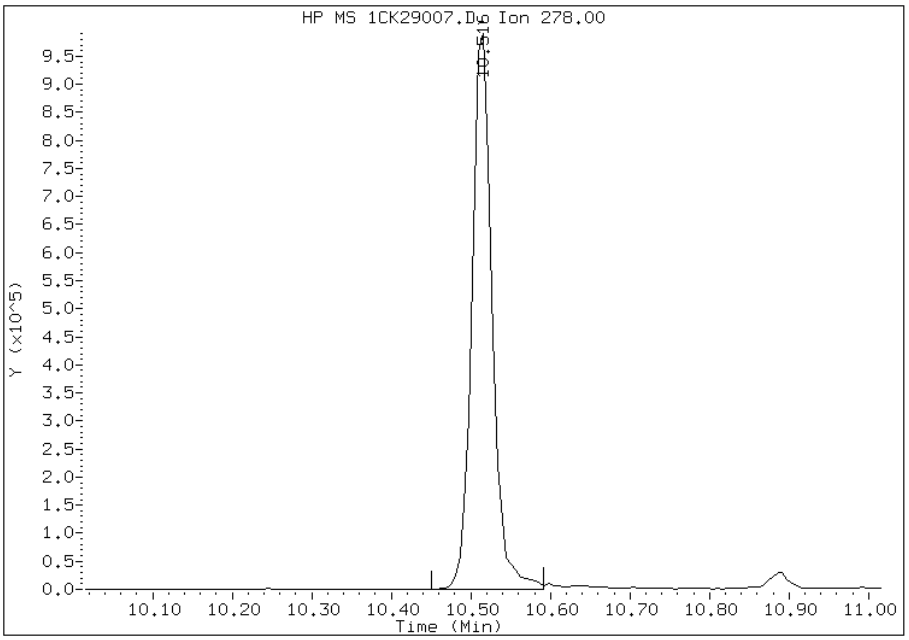
Processing Integration Results

RT: 10.52

Response: 1736622

Amount: 20

Conc: 20



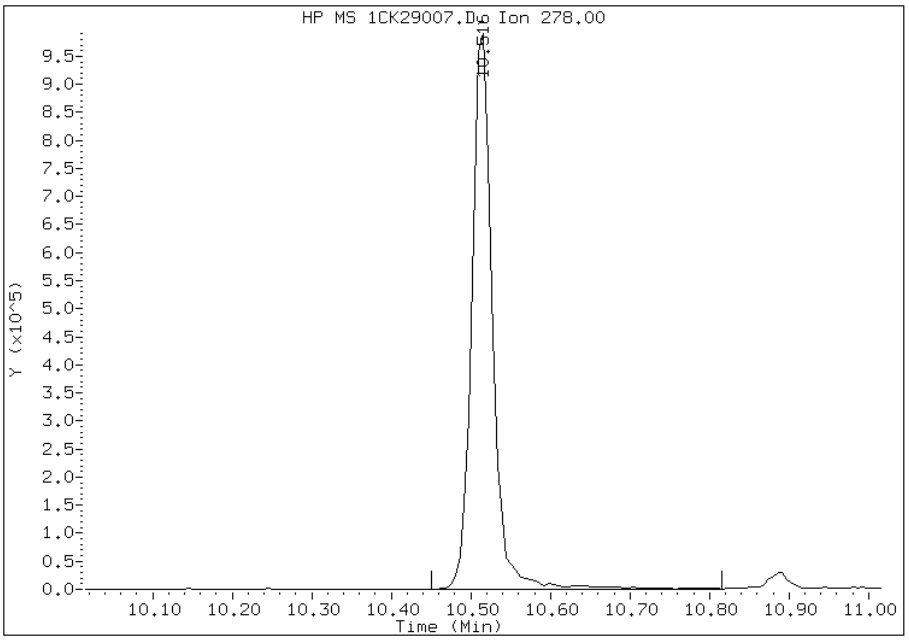

Manual Integration Results

RT: 10.52

Response: 1776880

Amount: 20

Conc: 20




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29007.D
Inj. Date and Time: 29-NOV-2012 12:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/29/2012

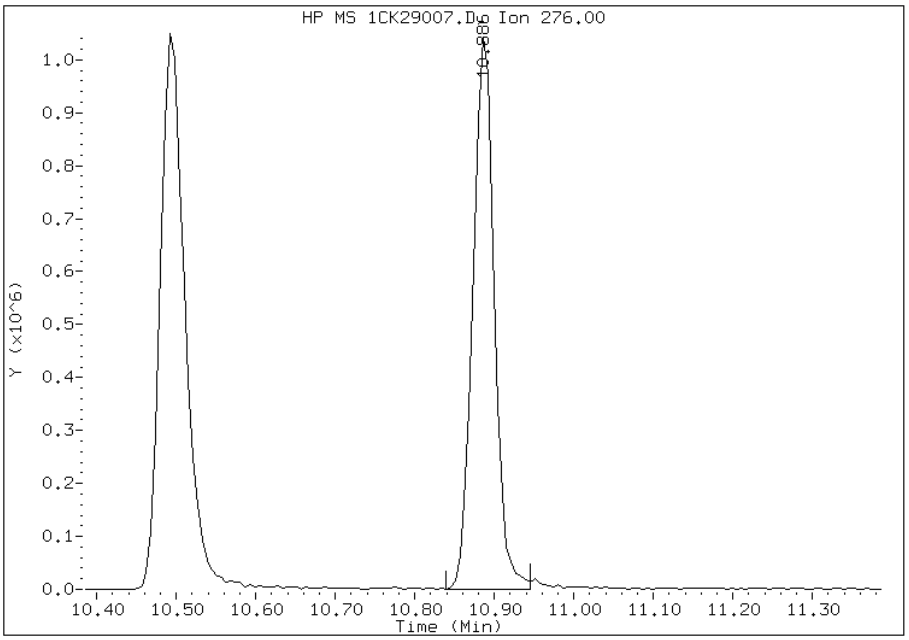
Processing Integration Results

RT: 10.89

Response: 1931723

Amount: 20

Conc: 20



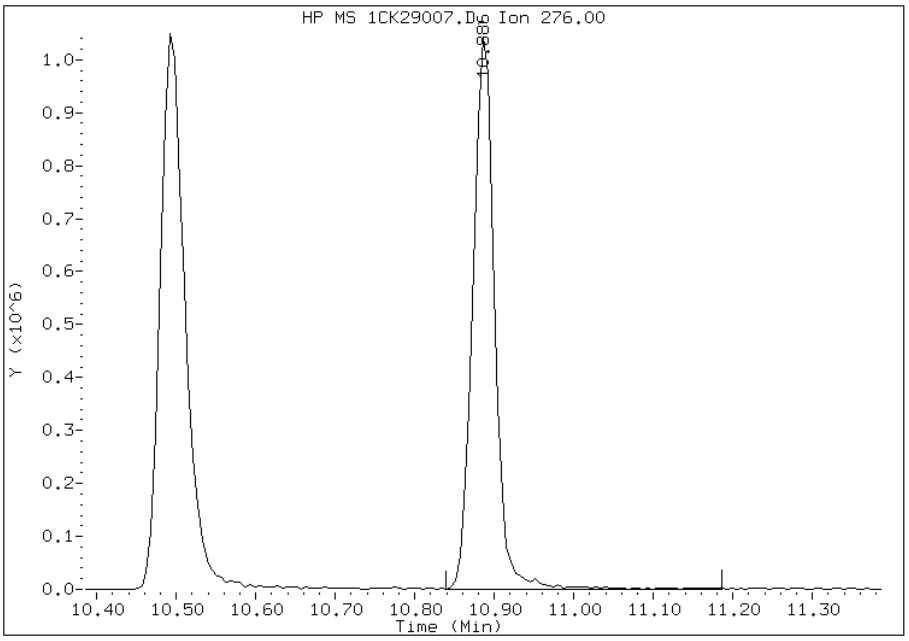

Manual Integration Results

RT: 10.89

Response: 1972638

Amount: 20

Conc: 20




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:45
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29008.D
Lab Smp Id: IC-1473025
Inj Date : 29-NOV-2012 12:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1473025
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:46 BSMC5973.i Quant Type: ISTD
Cal Date : 29-NOV-2012 12:29 Cal File: 1CK29007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 30.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.921 | 3.921 | (1.000) | 2627418 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.010 | 5.010 | (1.000) | 1806105 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.974 | 5.974 | (1.000) | 3338470 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.227 | 6.227 | (1.042) | 1437103 | 30.0000 | 30.3107 |
| * 18 Chrysene-d12 | 240 | 7.927 | 7.927 | (1.000) | 3757720 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.197 | 9.197 | (1.000) | 3876306 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.933 | (1.003) | 2069013 | 30.0000 | 29.0133 |
| 3 2-Methylnaphthalene | 142 | 4.357 | 4.357 | (1.111) | 1293067 | 30.0000 | 29.9063 |
| 4 1-Methylnaphthalene | 142 | 4.421 | 4.421 | (1.127) | 1233327 | 30.0000 | 29.3274 |
| 5 Acenaphthylene | 152 | 4.921 | 4.921 | (0.982) | 2207827 | 30.0000 | 30.9912 |
| 7 Acenaphthene | 154 | 5.027 | 5.027 | (1.004) | 1322271 | 30.0000 | 29.9101 |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 1680519 | 30.0000 | 29.4019 |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.002) | 2708941 | 30.0000 | 27.8527 |
| 12 Anthracene | 178 | 6.021 | 6.021 | (1.008) | 2702092 | 30.0000 | 30.0495 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.127 | 6.127 | (1.026) | 2344664 | 30.0000 | 28.8771 |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.144) | 2943394 | 30.0000 | 30.0703 |
| 16 Pyrene | 202 | 7.004 | 7.004 | (0.884) | 3190089 | 30.0000 | 30.8994 |
| 17 Benzo(a)anthracene | 228 | 7.921 | 7.921 | (0.999) | 2922495 | 30.0000 | 29.6713 |
| 19 Chrysene | 228 | 7.951 | 7.951 | (1.003) | 3058758 | 30.0000 | 28.4328 |
| 20 Benzo(b)fluoranthene | 252 | 8.815 | 8.815 | (0.958) | 2877181 | 30.0000 | 29.8254 |
| 21 Benzo(k)fluoranthene | 252 | 8.845 | 8.845 | (0.962) | 3409970 | 30.0000 | 33.1117 |
| 22 Benzo(a)pyrene | 252 | 9.139 | 9.139 | (0.994) | 3006349 | 30.0000 | 33.0476 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.492 | 10.492 | (1.141) | 3057983 | 30.0000 | 31.5703(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.515 | 10.515 | (1.143) | 2691969 | 30.0000 | 30.9512(M) |
| 26 Benzo(g,h,i)perylene | 276 | 10.891 | 10.891 | (1.184) | 2997545 | 30.0000 | 31.3641(M) |

QC Flag Legend

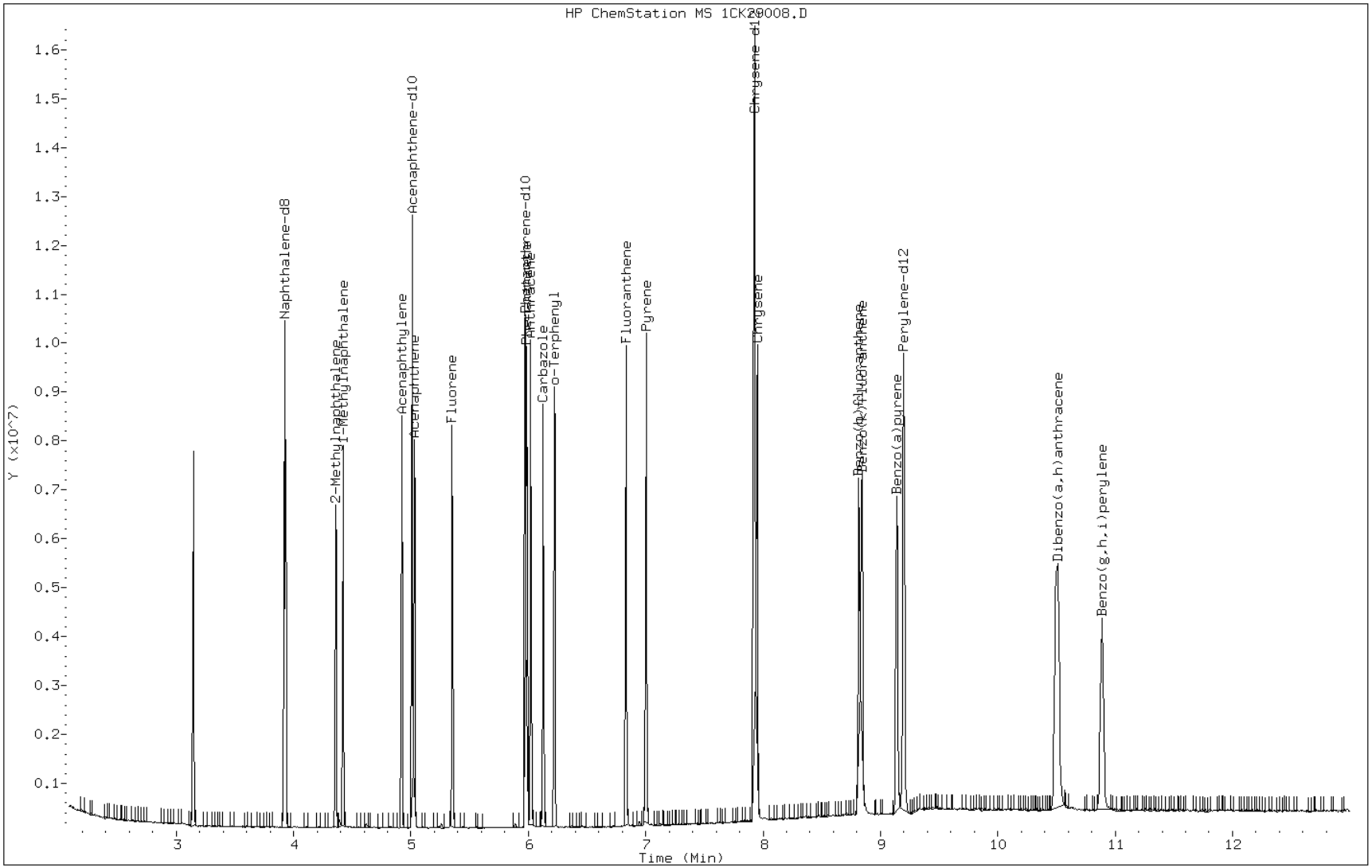
M - Compound response manually integrated.

Data File: 1CK29008.D

Date: 29-NOV-2012 12:48

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1473025 Operator: SCC



Manual Integration Report

Data File: 1CK29008.D
Inj. Date and Time: 29-NOV-2012 12:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

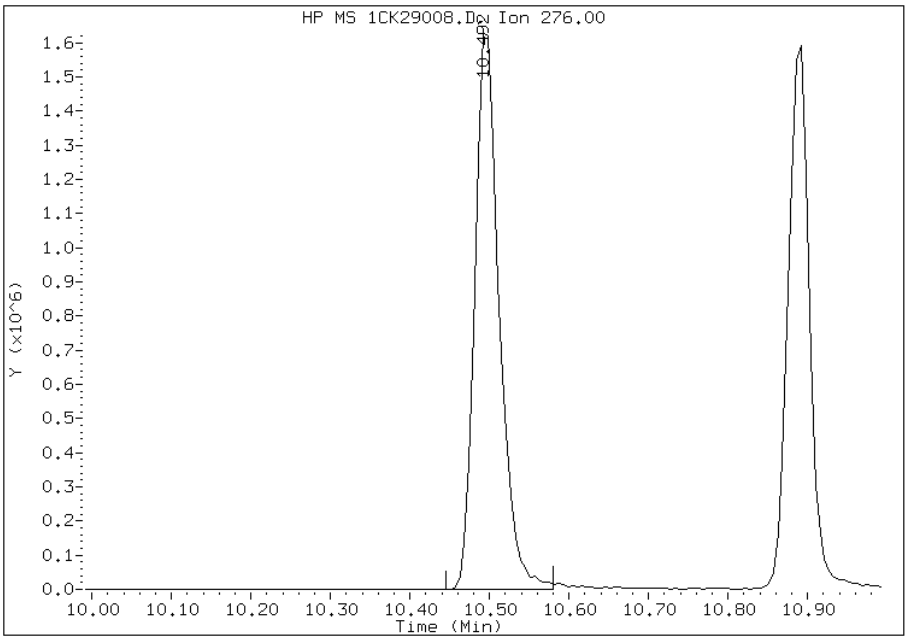
Processing Integration Results

RT: 10.49

Response: 3478017

Amount: 31

Conc: 31



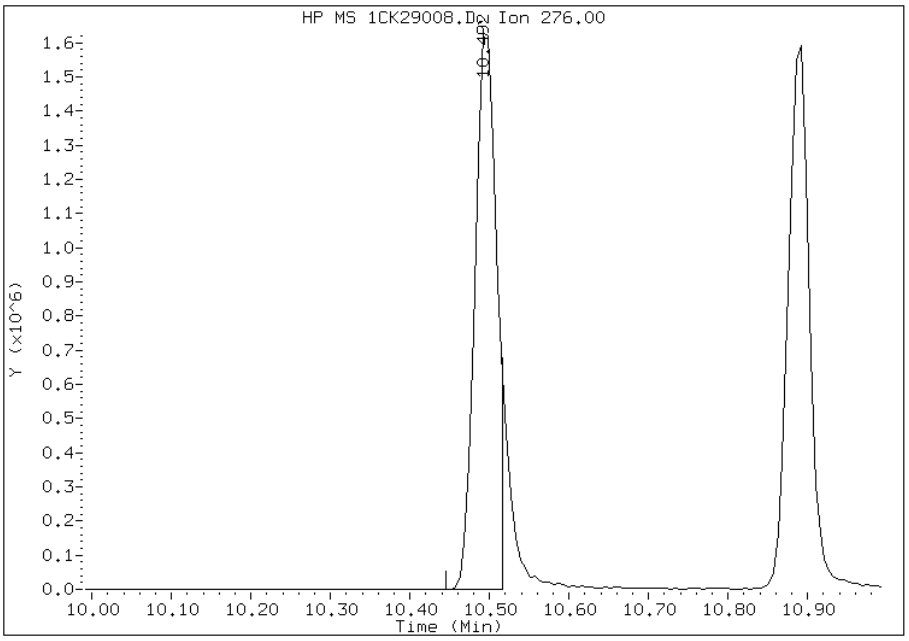

Manual Integration Results

RT: 10.49

Response: 3057983

Amount: 32

Conc: 32




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CK29008.D
Inj. Date and Time: 29-NOV-2012 12:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/29/2012

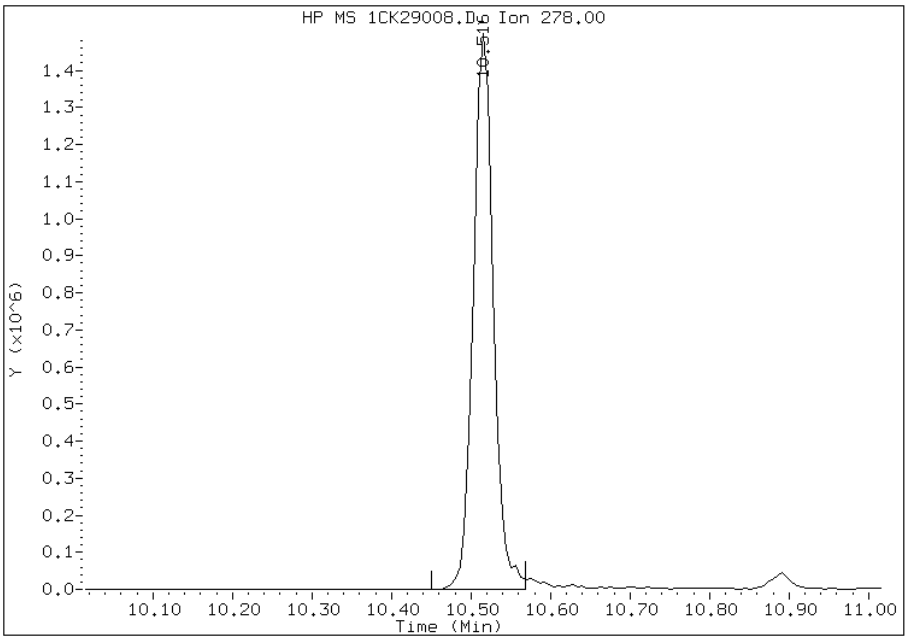
Processing Integration Results

RT: 10.52

Response: 2611945

Amount: 31

Conc: 31



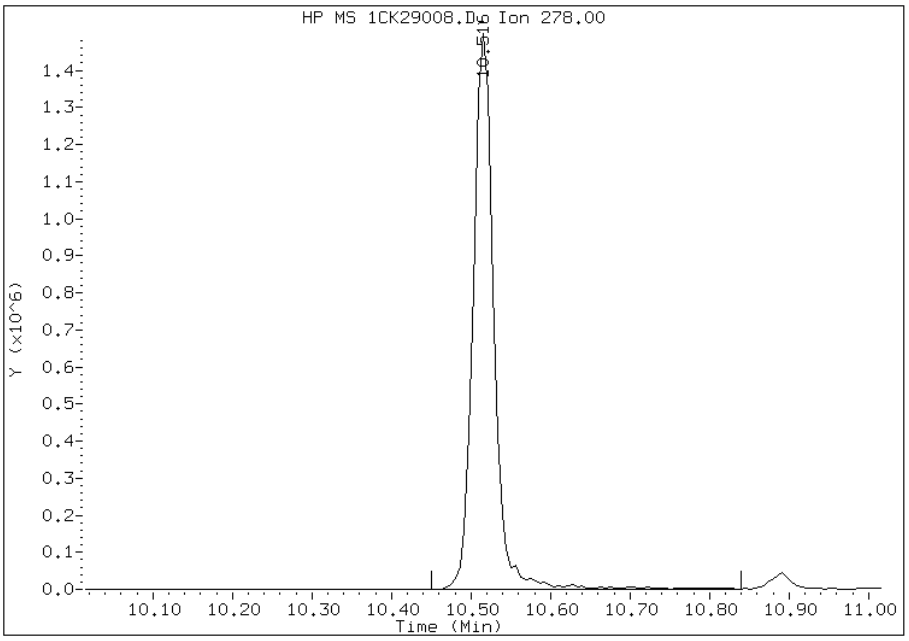

Manual Integration Results

RT: 10.52

Response: 2691969

Amount: 31

Conc: 31




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29008.D
Inj. Date and Time: 29-NOV-2012 12:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/29/2012

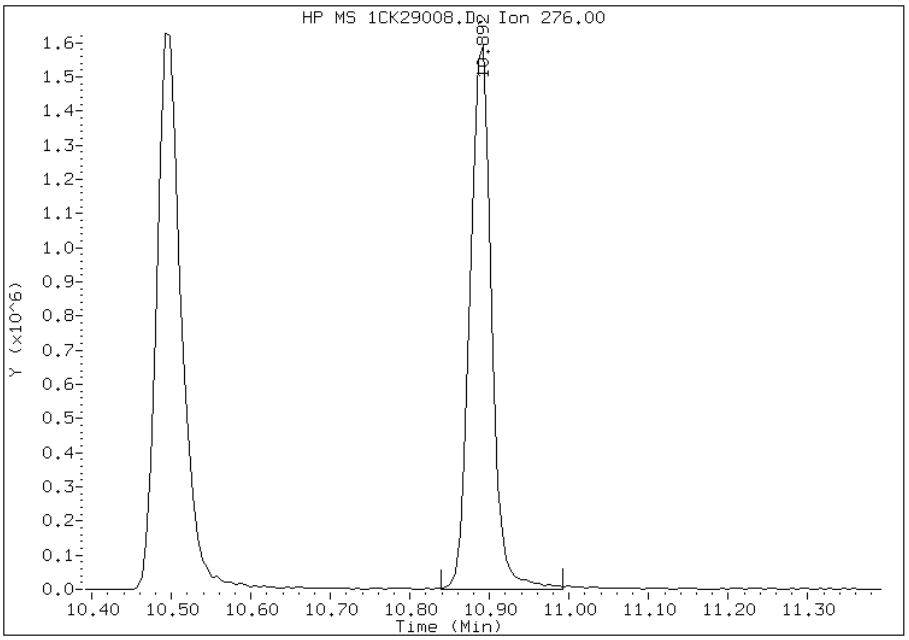
Processing Integration Results

RT: 10.89

Response: 2963926

Amount: 31

Conc: 31



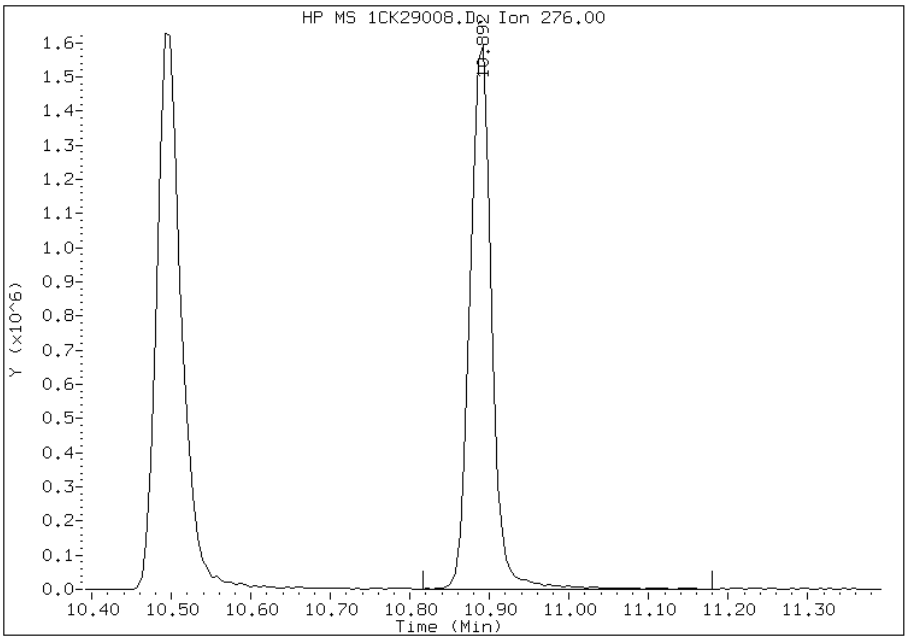

Manual Integration Results

RT: 10.89

Response: 2997545

Amount: 31

Conc: 31




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:43
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29009.D
Lab Smp Id: IC-1473026
Inj Date : 29-NOV-2012 13:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1473026
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:46 BSMC5973.i Quant Type: ISTD
Cal Date : 29-NOV-2012 12:48 Cal File: 1CK29008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 30.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.921 | 3.921 | (1.000) | 2721945 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.010 | 5.010 | (1.000) | 1914325 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.974 | 5.974 | (1.000) | 3431854 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.227 | 6.227 | (1.042) | 2408846 | 50.0000 | 49.4237 |
| * 18 Chrysene-d12 | 240 | 7.933 | 7.933 | (1.000) | 3955473 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.197 | 9.197 | (1.000) | 4213640 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.933 | (1.003) | 3593890 | 50.0000 | 48.6462 |
| 3 2-Methylnaphthalene | 142 | 4.363 | 4.363 | (1.112) | 2287049 | 50.0000 | 51.0584(A) |
| 4 1-Methylnaphthalene | 142 | 4.421 | 4.421 | (1.127) | 2112179 | 50.0000 | 48.4814 |
| 5 Acenaphthylene | 152 | 4.921 | 4.921 | (0.982) | 3868733 | 50.0000 | 51.2354(A) |
| 7 Acenaphthene | 154 | 5.027 | 5.027 | (1.004) | 2234252 | 50.0000 | 47.6823 |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 2884246 | 50.0000 | 47.6093 |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.002) | 4720565 | 50.0000 | 47.2151 |
| 12 Anthracene | 178 | 6.021 | 6.021 | (1.008) | 4692964 | 50.0000 | 50.7695(A) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 6.127 | 6.127 | (1.026) | 4176836 | 50.0000 | 50.0425(A) |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.144) | 5150634 | 50.0000 | 51.1881(A) |
| 16 Pyrene | 202 | 7.004 | 7.004 | (0.883) | 5545478 | 50.0000 | 51.0285(A) |
| 17 Benzo(a)anthracene | 228 | 7.921 | 7.921 | (0.999) | 5252107 | 50.0000 | 50.6574(A) |
| 19 Chrysene | 228 | 7.951 | 7.951 | (1.002) | 5434182 | 50.0000 | 47.9883 |
| 20 Benzo(b)fluoranthene | 252 | 8.821 | 8.821 | (0.959) | 5537431 | 50.0000 | 52.8066(A) |
| 21 Benzo(k)fluoranthene | 252 | 8.845 | 8.845 | (0.962) | 5831461 | 50.0000 | 52.0918(A) |
| 22 Benzo(a)pyrene | 252 | 9.145 | 9.145 | (0.994) | 5430880 | 50.0000 | 54.9202(A) |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.503 | 10.503 | (1.142) | 5225135 | 50.0000 | 49.6252(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.521 | 10.521 | (1.144) | 4817581 | 50.0000 | 50.9562(A) |
| 26 Benzo(g,h,i)perylene | 276 | 10.897 | 10.897 | (1.185) | 5280071 | 50.0000 | 50.8239(A) |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CK29009.D

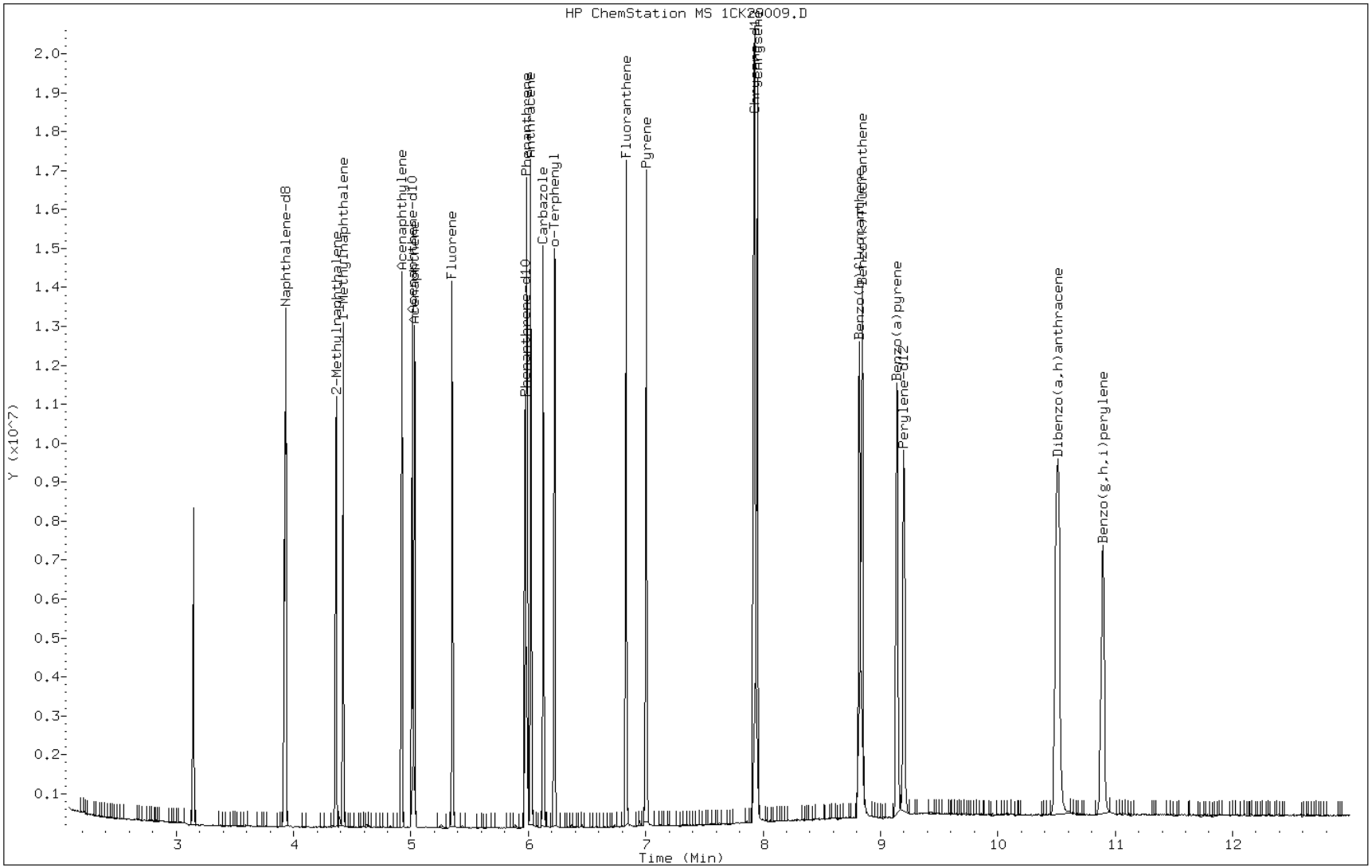
Date: 29-NOV-2012 13:06

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1473026

Operator: SCC



Manual Integration Report

Data File: 1CK29009.D
Inj. Date and Time: 29-NOV-2012 13:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

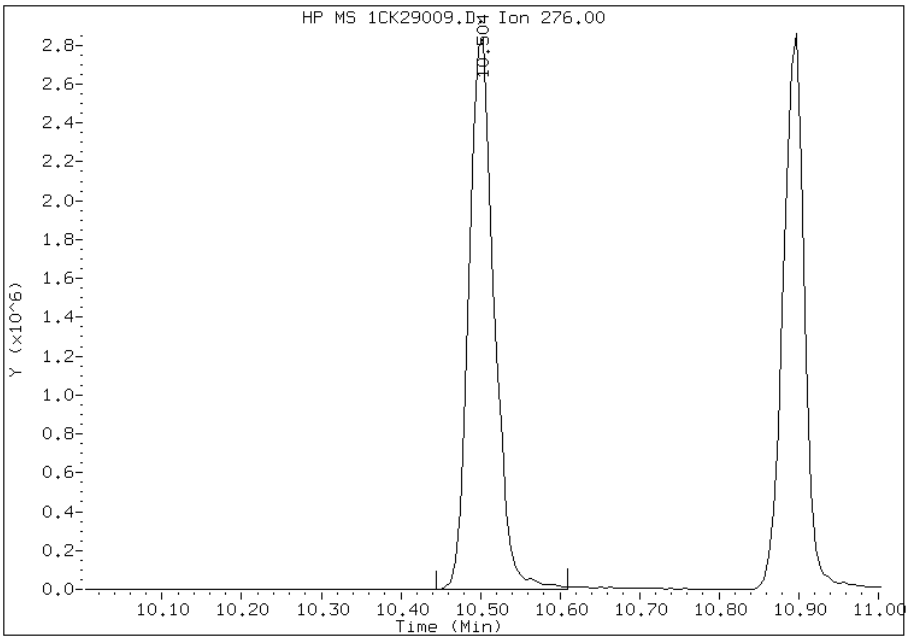
Processing Integration Results

RT: 10.50

Response: 6266888

Amount: 51

Conc: 51



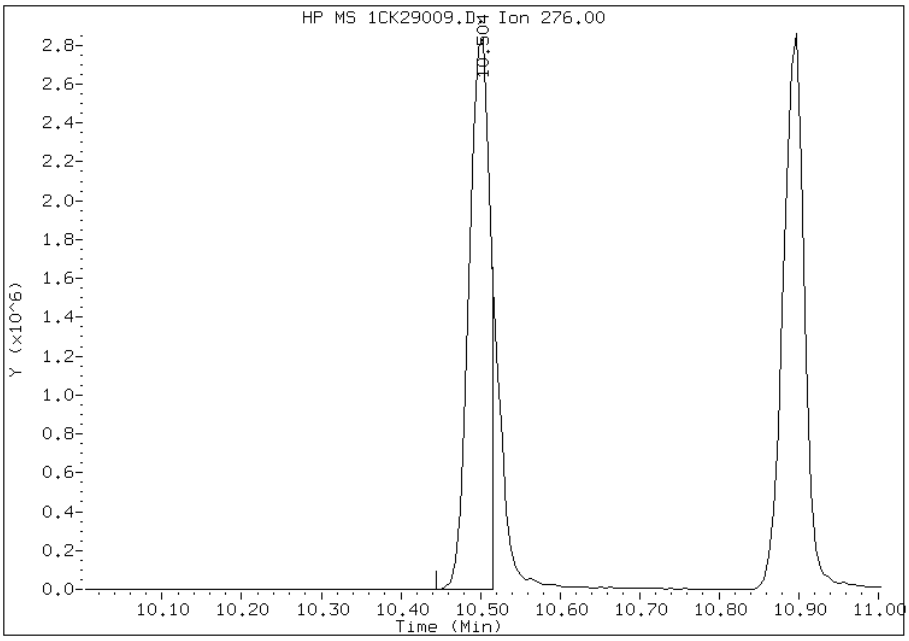

Manual Integration Results

RT: 10.50

Response: 5225135

Amount: 50

Conc: 50




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:44
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 132234

SDG No.: 68085534-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2012 11:59 Calibration End Date: 12/06/2012 14:14 Calibration ID: 2610

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 660-132234/3 | 1DL06003.D |
| Level 2 | IC 660-132234/4 | 1DL06004.D |
| Level 3 | IC 660-132234/5 | 1DL06005.D |
| Level 4 | IC 660-132234/6 | 1DL06006.D |
| Level 5 | ICIS 660-132234/7 | 1DL06007.D |
| Level 6 | IC 660-132234/8 | 1DL06008.D |
| Level 7 | IC 660-132234/9 | 1DL06009.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Naphthalene | 1.1004<br>1.0141 | 1.0357<br>1.0049 | 1.0647 | 1.0361 | 1.0147 | Ave | | 1.0386 | | | 0.0000 | 3.2 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.7124<br>0.6585 | 0.6657<br>0.6510 | 0.6787 | 0.6682 | 0.6597 | Ave | | 0.6706 | | | 0.0000 | 3.0 | | 15.0 | | | |
| 1-Methylnaphthalene | 0.7090<br>0.6216 | 0.6196<br>0.6150 | 0.6448 | 0.6282 | 0.6121 | Ave | | 0.6358 | | | 0.0000 | 5.4 | | 15.0 | | | |
| Acenaphthylene | 1.8023<br>1.7551 | 1.6629<br>1.7165 | 1.7738 | 1.7596 | 1.7608 | Ave | | 1.7473 | | | 0.0000 | 2.6 | | 15.0 | | | |
| Acenaphthene | 1.2008<br>1.0216 | 1.0398<br>1.0080 | 1.0804 | 1.0383 | 1.0203 | Ave | | 1.0585 | | | 0.0000 | 6.3 | | 15.0 | | | |
| Fluorene | 1.3567<br>1.2321 | 1.2319<br>1.1940 | 1.2578 | 1.2335 | 1.2271 | Ave | | 1.2476 | | | 0.0000 | 4.1 | | 15.0 | | | |
| Phenanthrene | 1.3918<br>1.0871 | 1.1224<br>1.0709 | 1.1440 | 1.1120 | 1.0835 | Ave | | 1.1445 | | | 0.0000 | 9.8 | | 15.0 | | | |
| Anthracene | 1.3085<br>1.1135 | 1.1281<br>1.0908 | 1.1509 | 1.1379 | 1.1024 | Ave | | 1.1474 | | | 0.0000 | 6.4 | | 15.0 | | | |
| Carbazole | 1.2046<br>0.9640 | 0.9921<br>0.9615 | 1.0336 | 0.9818 | 0.9732 | Ave | | 1.0158 | | | 0.0000 | 8.5 | | 15.0 | | | |
| Fluoranthene | 1.2547<br>1.1319 | 1.1209<br>1.1171 | 1.1717 | 1.1672 | 1.1335 | Ave | | 1.1567 | | | 0.0000 | 4.2 | | 15.0 | | | |
| Pyrene | 1.4720<br>1.2436 | 1.1982<br>1.2143 | 1.2884 | 1.2768 | 1.2368 | Ave | | 1.2757 | | | 0.0000 | 7.2 | | 15.0 | | | |
| Benzo[a]anthracene | 1.7164<br>1.0945 | 1.0980<br>1.0749 | 1.0906 | 1.0867 | 1.0715 | LinF | | 1.0795 | | | 0.0000 | | | | 0.9999 | | 0.9900 |
| Chrysene | 1.3292<br>1.0774 | 1.1307<br>1.0618 | 1.1507 | 1.1190 | 1.0636 | Ave | | 1.1332 | | | 0.0000 | 8.2 | | 15.0 | | | |
| Benzo[b]fluoranthene | 0.9299<br>1.0169 | 0.9222<br>1.0293 | 0.9821 | 1.0016 | 0.9905 | Ave | | 0.9818 | | | 0.0000 | 4.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 132234

SDG No.: 68085534-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2012 11:59 Calibration End Date: 12/06/2012 14:14 Calibration ID: 2610

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Benzo[k]fluoranthene | 1.1591<br>1.0746 | 1.0035<br>1.0569 | 1.1278 | 1.1022 | 1.0904 | Ave | | 1.0878 | | | 0.0000 | 4.6 | | 15.0 | | | |
| Benzo[a]pyrene | 0.9070<br>1.0274 | 0.8742<br>1.0279 | 0.9950 | 1.0162 | 1.0095 | Ave | | 0.9796 | | | 0.0000 | 6.4 | | 15.0 | | | |
| Indeno[1,2,3-cd]pyrene | 0.7670<br>1.0430 | 0.8207<br>1.1090 | 0.9762 | 0.9990 | 1.0483 | Ave | | 0.9662 | | | 0.0000 | 13.0 | | 15.0 | | | |
| Dibenz(a,h)anthracene | 0.9056<br>0.9878 | 0.8408<br>0.9861 | 0.9770 | 0.9682 | 0.9732 | Ave | | 0.9484 | | | 0.0000 | 5.8 | | 15.0 | | | |
| Benzo[g,h,i]perylene | 0.9493<br>1.0262 | 0.9324<br>1.0193 | 1.0150 | 1.0153 | 1.0050 | Ave | | 0.9947 | | | 0.0000 | 3.8 | | 15.0 | | | |
| o-Terphenyl | 0.7083<br>0.6121 | 0.6225<br>0.6015 | 0.6367 | 0.6245 | 0.6107 | Ave | | 0.6309 | | | 0.0000 | 5.7 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 132234

SDG No.: 68085534-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2012 11:59 Calibration End Date: 12/06/2012 14:14 Calibration ID: 2610

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 660-132234/3 | 1DL06003.D |
| Level 2 | IC 660-132234/4 | 1DL06004.D |
| Level 3 | IC 660-132234/5 | 1DL06005.D |
| Level 4 | IC 660-132234/6 | 1DL06006.D |
| Level 5 | ICIS 660-132234/7 | 1DL06007.D |
| Level 6 | IC 660-132234/8 | 1DL06008.D |
| Level 7 | IC 660-132234/9 | 1DL06009.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Naphthalene | NPT | Ave | 15039<br>2276882 | 75906<br>3697992 | 377017 | 752160 | 1586209 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| 2-Methylnaphthalene | NPT | Ave | 9736<br>1478495 | 48792<br>2395715 | 240328 | 485132 | 1031265 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| 1-Methylnaphthalene | NPT | Ave | 9690<br>1395714 | 45412<br>2263101 | 228335 | 456072 | 956835 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Acenaphthylene | ANT | Ave | 14192<br>2282503 | 70351<br>3651418 | 363874 | 748229 | 1595770 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Acenaphthene | ANT | Ave | 9455<br>1328662 | 43988<br>2144315 | 221640 | 441524 | 924680 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Fluorene | ANT | Ave | 10683<br>1602354 | 52117<br>2539875 | 258036 | 524494 | 1112137 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Phenanthrene | PHN | Ave | 18137<br>2290239 | 78454<br>3692092 | 381500 | 754400 | 1602589 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Anthracene | PHN | Ave | 17051<br>2345836 | 78852<br>3760867 | 383783 | 771974 | 1630563 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Carbazole | PHN | Ave | 15698<br>2030858 | 69350<br>3314993 | 344669 | 666061 | 1439368 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Fluoranthene | PHN | Ave | 16350<br>2384610 | 78349<br>3851674 | 390746 | 791852 | 1676553 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Pyrene | CRY | Ave | 18471<br>2553452 | 81311<br>4033541 | 419635 | 849878 | 1773291 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[a]anthracene | CRY | LinF | 21537<br>2247348 | 74516<br>3570422 | 355206 | 723343 | 1536263 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Chrysene | CRY | Ave | 16679<br>2212349 | 76732<br>3527102 | 374782 | 744853 | 1524916 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[b]fluoranthene | PRY | Ave | 12180<br>2170386 | 65040<br>3548010 | 330615 | 686137 | 1468082 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[k]fluoranthene | PRY | Ave | 15182<br>2293481 | 70775<br>3643272 | 379665 | 755121 | 1616064 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-85534-2 Analy Batch No.: 132234

SDG No.: 68085534-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2012 11:59 Calibration End Date: 12/06/2012 14:14 Calibration ID: 2610

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Benzo[a]pyrene | PRY | Ave | 11880<br>2192711 | 61657<br>3543421 | 334951 | 696146 | 1496245 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Indeno[1,2,3-cd]pyrene | PRY | Ave | 10047<br>2226123 | 57882<br>3822919 | 328639 | 684369 | 1553663 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Dibenz(a,h)anthracene | PRY | Ave | 11862<br>2108354 | 59298<br>3399096 | 328907 | 663272 | 1442459 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| Benzo[g,h,i]perylene | PRY | Ave | 12435<br>2190213 | 65758<br>3513793 | 341709 | 695552 | 1489568 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |
| o-Terphenyl | PHN | Ave | 9230<br>1289462 | 43516<br>2073883 | 212337 | 423676 | 903234 | 0.200<br>30.0 | 1.00<br>50.0 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06003.D
Lab Smp Id: IC-1473020
Inj Date : 06-DEC-2012 11:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1473020
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:33 BSMSD.i Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14 Cal File: 1DL06009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.267 | 6.267 | (1.000) | 2733367 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.935 | 7.935 | (1.000) | 1574841 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.193 | 9.193 | (1.000) | 2606240 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.504 | 9.504 | (1.034) | 9230 | 0.20000 | 0.22 |
| * 17 Chrysene-d12 | 240 | 11.554 | 11.554 | (1.000) | 2509625 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.458 | 13.458 | (1.000) | 2619705 | 40.0000 | |
| 2 Naphthalene | 128 | 6.284 | 6.284 | (1.003) | 15039 | 0.20000 | 0.21 |
| 3 2-Methylnaphthalene | 142 | 6.983 | 6.983 | (1.114) | 9736 | 0.20000 | 0.21 |
| 4 1-Methylnaphthalene | 142 | 7.077 | 7.077 | (1.129) | 9690 | 0.20000 | 0.22 |
| 5 Acenaphthylene | 152 | 7.806 | 7.806 | (0.984) | 14192 | 0.20000 | 0.21 |
| 7 Acenaphthene | 154 | 7.959 | 7.959 | (1.003) | 9455 | 0.20000 | 0.23 |
| 8 Fluorene | 166 | 8.399 | 8.399 | (1.058) | 10683 | 0.20000 | 0.22 |
| 10 Phenanthrene | 178 | 9.210 | 9.210 | (1.002) | 18137 | 0.20000 | 0.24 |
| 11 Anthracene | 178 | 9.245 | 9.245 | (1.006) | 17051 | 0.20000 | 0.23 |
| 12 Carbazole | 167 | 9.375 | 9.375 | (1.020) | 15698 | 0.20000 | 0.24 |
| 14 Fluoranthene | 202 | 10.191 | 10.191 | (1.109) | 16350 | 0.20000 | 0.22 |
| 15 Pyrene | 202 | 10.374 | 10.374 | (0.898) | 18471 | 0.20000 | 0.23 |
| 16 Benzo(a)anthracene | 228 | 11.537 | 11.537 | (0.998) | 21537 | 0.20000 | 0.29 |
| 18 Chrysene | 228 | 11.578 | 11.578 | (1.002) | 16679 | 0.20000 | 0.23(M) |
| 19 Benzo(b)fluoranthene | 252 | 12.882 | 12.882 | (0.957) | 12180 | 0.20000 | 0.19 |
| 20 Benzo(k)fluoranthene | 252 | 12.923 | 12.923 | (0.960) | 15182 | 0.20000 | 0.21 |
| 21 Benzo(a)pyrene | 252 | 13.346 | 13.346 | (0.992) | 11880 | 0.20000 | 0.18 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.092 | 15.092 | (1.121) | 10047 | 0.20000 | 0.16 |
| 24 Dibenzo(a,h)anthracene | 278 | 15.127 | 15.127 | (1.124) | 11862 | 0.20000 | 0.19(M) |
| 25 Benzo(g,h,i)perylene | 276 | 15.550 | 15.550 | (1.155) | 12435 | 0.20000 | 0.19(M) |

QC Flag Legend

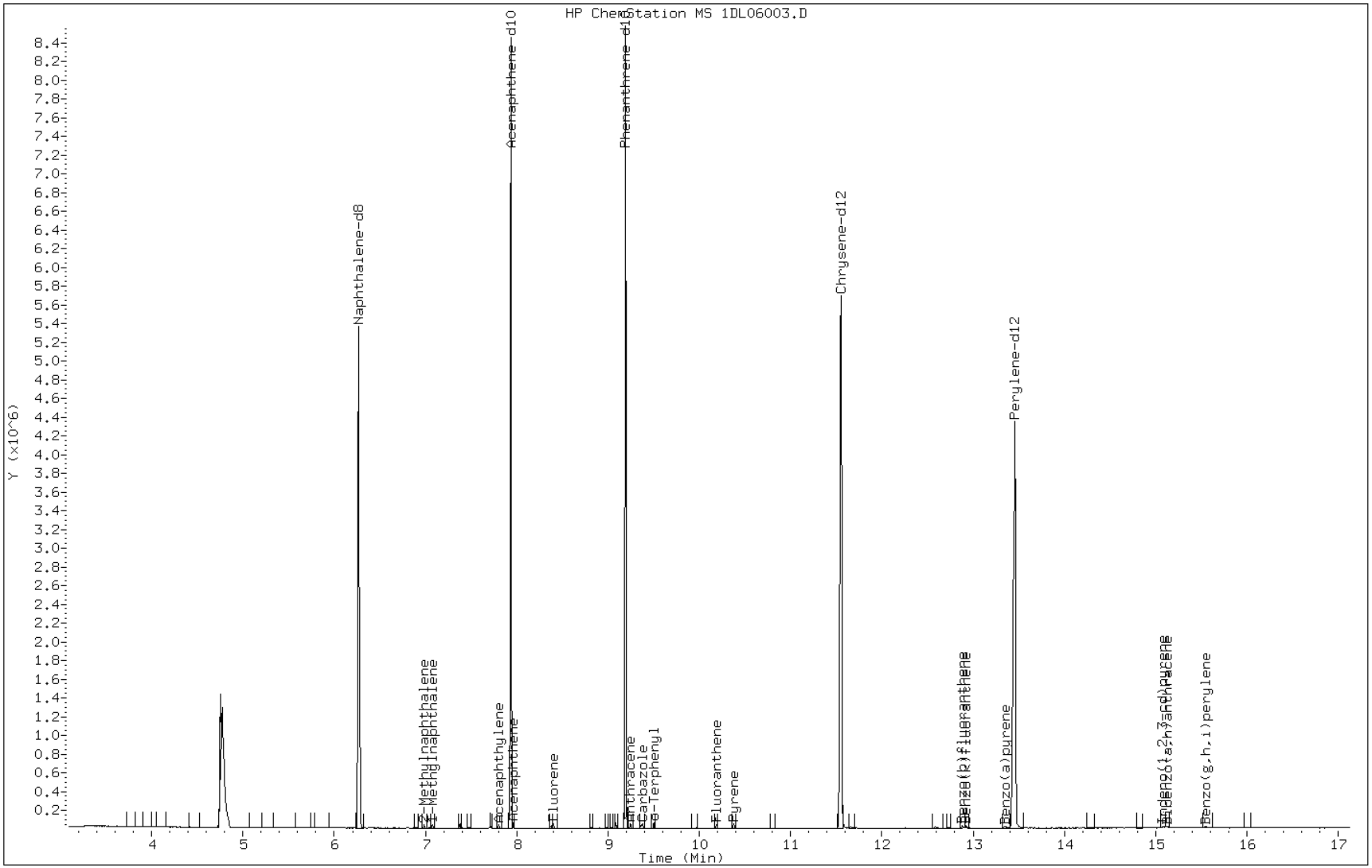
M - Compound response manually integrated.

Data File: 1DL06003.D

Date: 06-DEC-2012 11:59

Client ID: Instrument: BSMSD.i

Sample Info: IC-1473020 Operator: SCC



Manual Integration Report

Data File: 1DL06003.D
Inj. Date and Time: 06-DEC-2012 11:59
Instrument ID: BSMSD.i
Client ID:
Compound: 18 Chrysene
CAS #: 218-01-9
Report Date: 12/07/2012

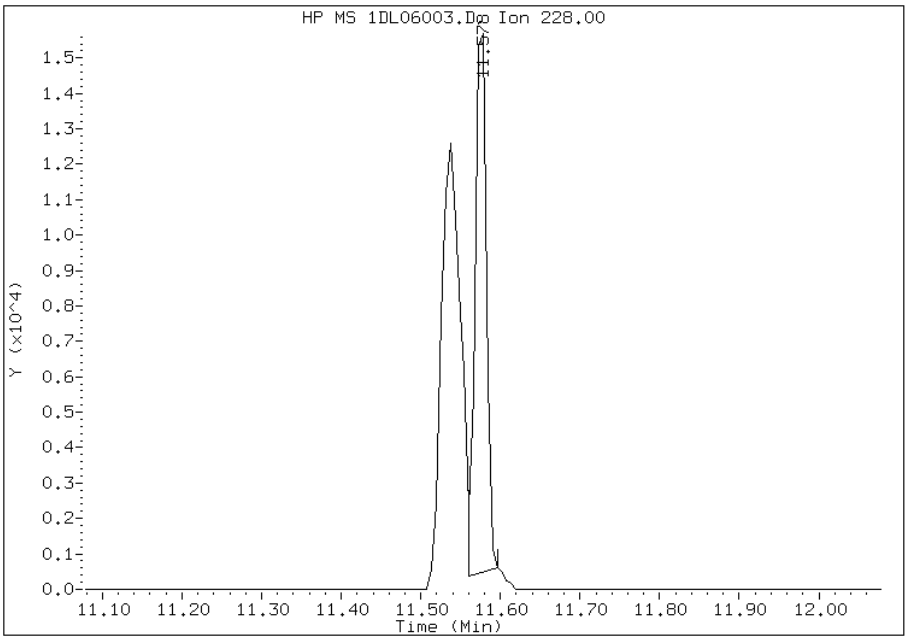
Processing Integration Results

RT: 11.58

Response: 15169

Amount: 0

Conc: 0



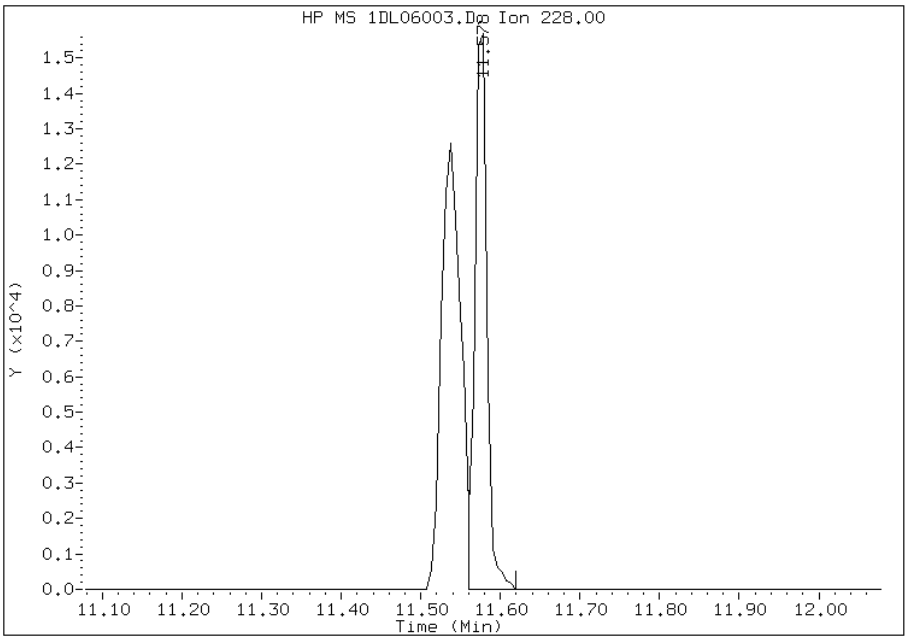

Manual Integration Results

RT: 11.58

Response: 16679

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL06003.D
Inj. Date and Time: 06-DEC-2012 11:59
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/07/2012

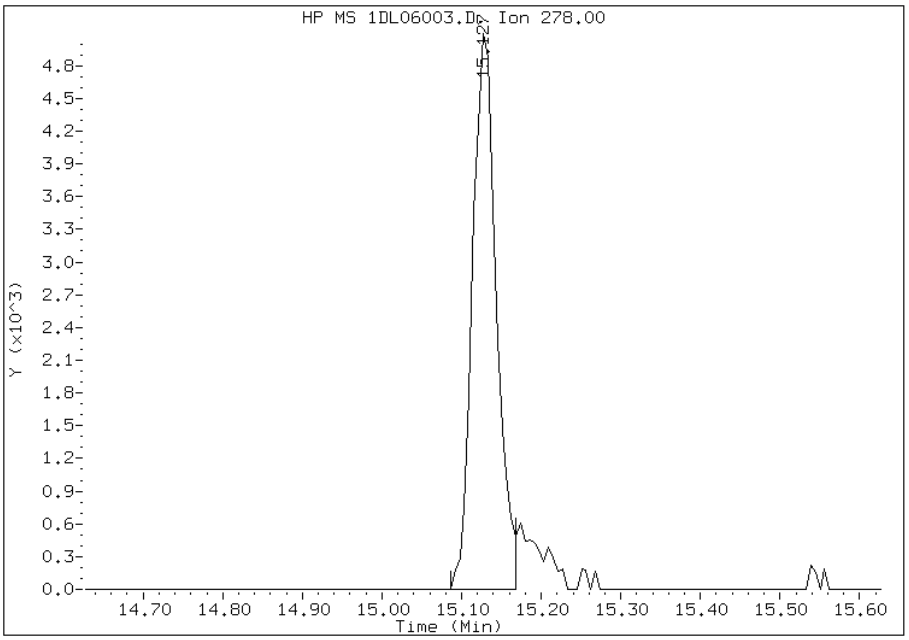
Processing Integration Results

RT: 15.13

Response: 10618

Amount: 0

Conc: 0



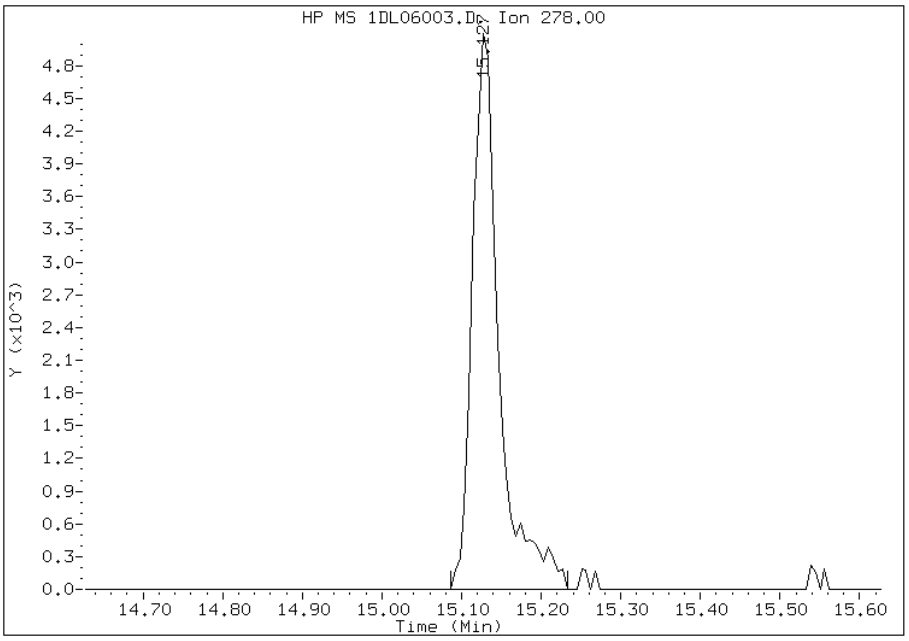

Manual Integration Results

RT: 15.13

Response: 11862

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL06003.D
Inj. Date and Time: 06-DEC-2012 11:59
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/07/2012

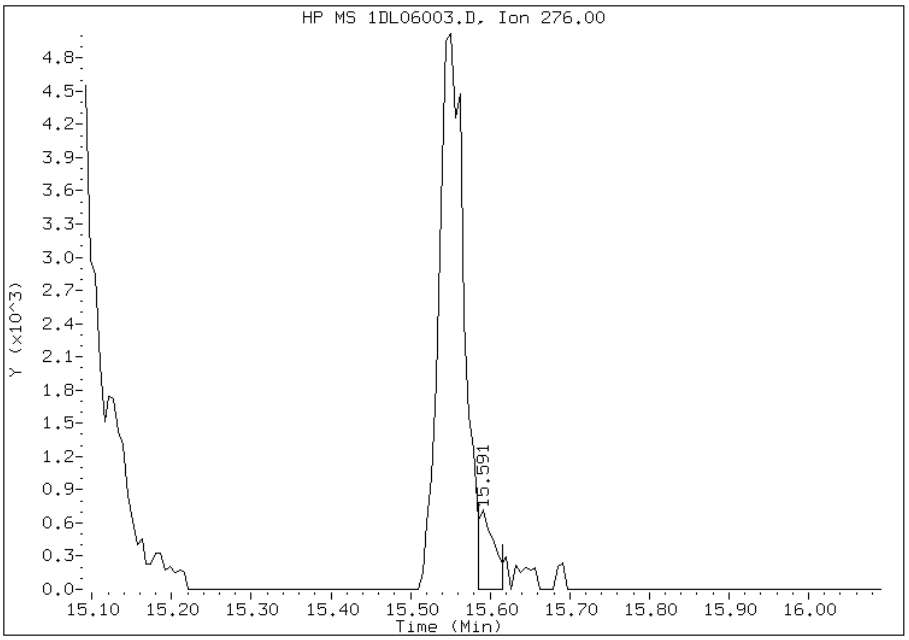
Processing Integration Results

RT: 15.59

Response: 1024

Amount: 0

Conc: 0



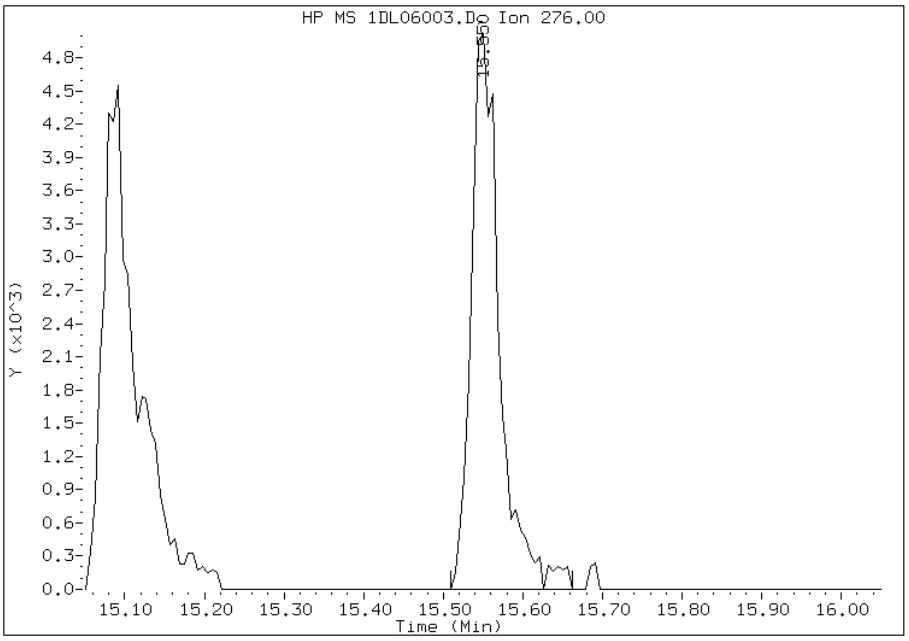

Manual Integration Results

RT: 15.55

Response: 12435

Amount: 0

Conc: 0




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:30
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06004.D
Lab Smp Id: IC-1473021
Inj Date : 06-DEC-2012 12:21
Operator : SCC  Inst ID: BSMSD.i
Smp Info : IC-1473021
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:33 BSMSD.i  Quant Type: ISTD
Cal Date : 06-DEC-2012 11:59  Cal File: 1DL06003.D
Als bottle: 4  Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.265 | 6.265 | (1.000) | 2931638 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.928 | 7.928 | (1.000) | 1692225 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.185 | 9.185 | (1.000) | 2795986 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.497 | 9.497 | (1.034) | 43516 | 1.00000 | 0.99 |
| * 17 Chrysene-d12 | 240 | 11.547 | 11.547 | (1.000) | 2714546 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.451 | 13.451 | (1.000) | 2821093 | 40.0000 | |
| 2 Naphthalene | 128 | 6.283 | 6.283 | (1.003) | 75906 | 1.00000 | 1.00 |
| 3 2-Methylnaphthalene | 142 | 6.982 | 6.982 | (1.114) | 48792 | 1.00000 | 0.99 |
| 4 1-Methylnaphthalene | 142 | 7.070 | 7.070 | (1.128) | 45412 | 1.00000 | 0.97 |
| 5 Acenaphthylene | 152 | 7.799 | 7.799 | (0.984) | 70351 | 1.00000 | 0.95 |
| 7 Acenaphthene | 154 | 7.951 | 7.951 | (1.003) | 43988 | 1.00000 | 0.98 |
| 8 Fluorene | 166 | 8.392 | 8.392 | (1.059) | 52117 | 1.00000 | 0.99 |
| 10 Phenanthrene | 178 | 9.203 | 9.203 | (1.002) | 78454 | 1.00000 | 0.98 |
| 11 Anthracene | 178 | 9.244 | 9.244 | (1.006) | 78852 | 1.00000 | 0.98 |
| 12 Carbazole | 167 | 9.373 | 9.373 | (1.020) | 69350 | 1.00000 | 0.98 |
| 14 Fluoranthene | 202 | 10.184 | 10.184 | (1.109) | 78349 | 1.00000 | 0.97 |
| 15 Pyrene | 202 | 10.372 | 10.372 | (0.898) | 81311 | 1.00000 | 0.94 |
| 16 Benzo(a)anthracene | 228 | 11.530 | 11.530 | (0.998) | 74516 | 1.00000 | 0.93 |
| 18 Chrysene | 228 | 11.571 | 11.571 | (1.002) | 76732 | 1.00000 | 1.00 |
| 19 Benzo(b)fluoranthene | 252 | 12.875 | 12.875 | (0.957) | 65040 | 1.00000 | 0.94 |
| 20 Benzo(k)fluoranthene | 252 | 12.916 | 12.916 | (0.960) | 70775 | 1.00000 | 0.92 |
| 21 Benzo(a)pyrene | 252 | 13.345 | 13.345 | (0.992) | 61657 | 1.00000 | 0.89 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.072 | 15.072 | (1.121) | 57882 | 1.00000 | 0.85(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.120 | 15.120 | (1.124) | 59298 | 1.00000 | 0.89(M) |
| 25 Benzo(g,h,i)perylene | 276 | 15.543 | 15.543 | (1.155) | 65758 | 1.00000 | 0.94(M) |

QC Flag Legend

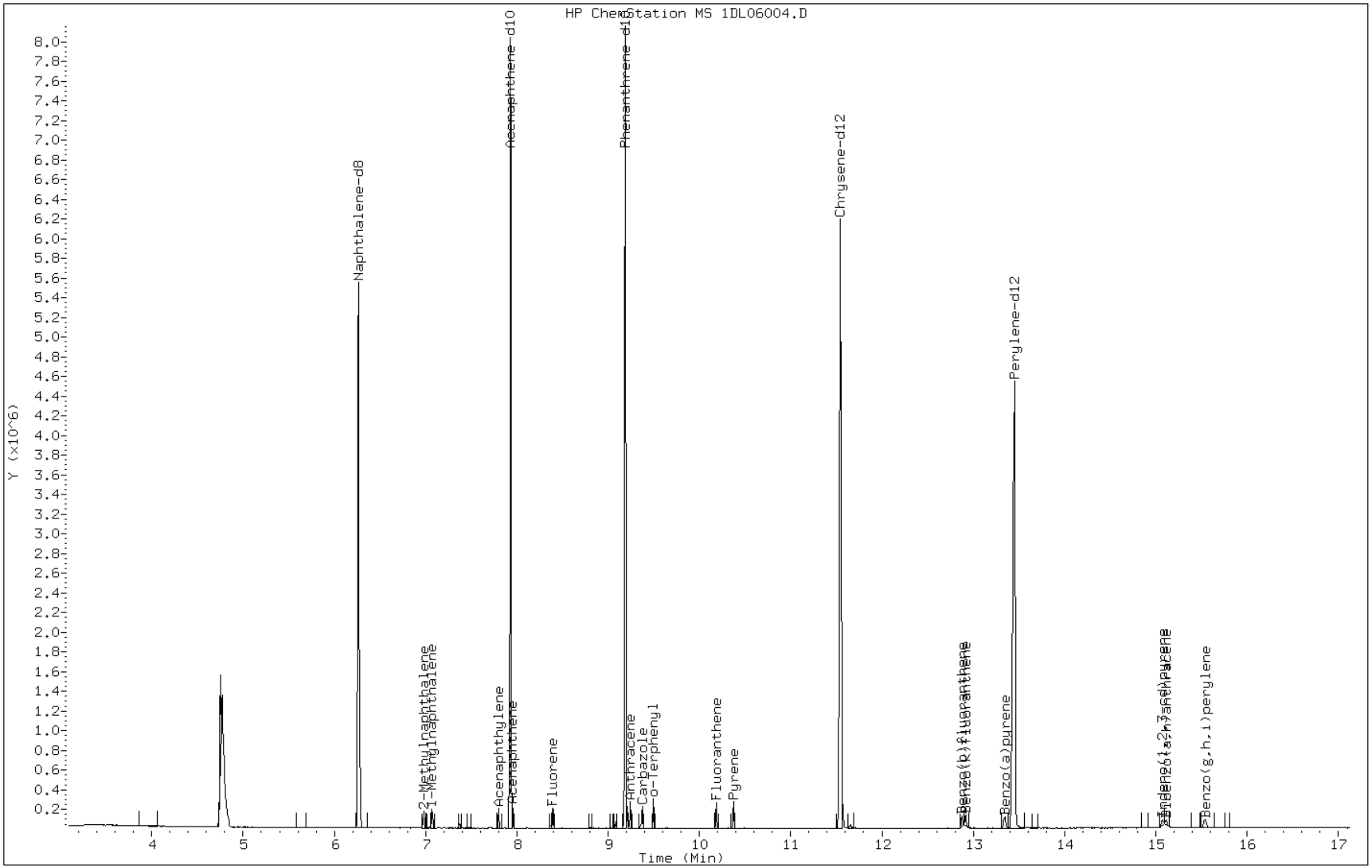
M - Compound response manually integrated.

Data File: 1DL06004.D

Date: 06-DEC-2012 12:21

Client ID: Instrument: BSMSD.i

Sample Info: IC-1473021 Operator: SCC



Manual Integration Report

Data File: 1DL06004.D
Inj. Date and Time: 06-DEC-2012 12:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/07/2012

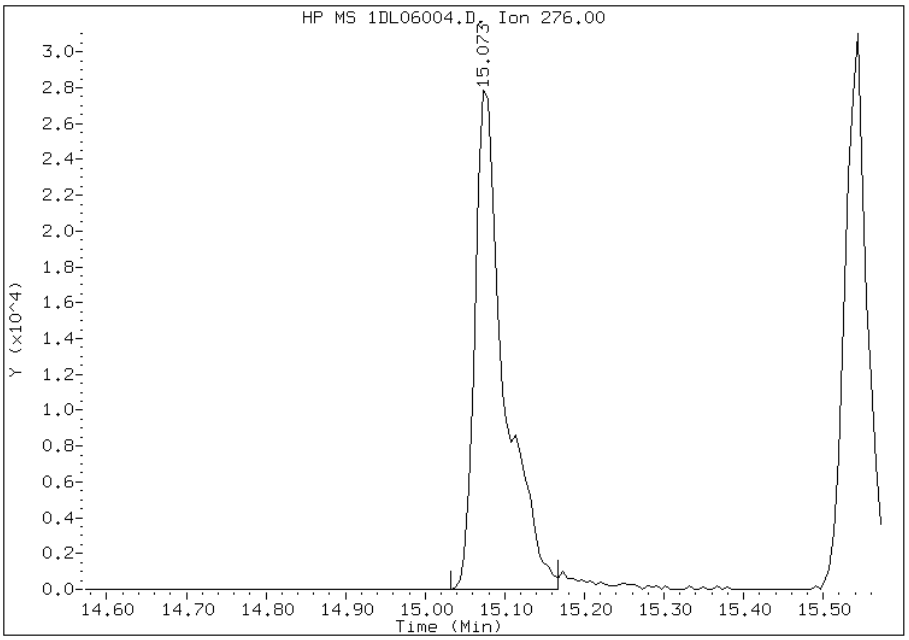
Processing Integration Results

RT: 15.07

Response: 70849

Amount: 1

Conc: 1



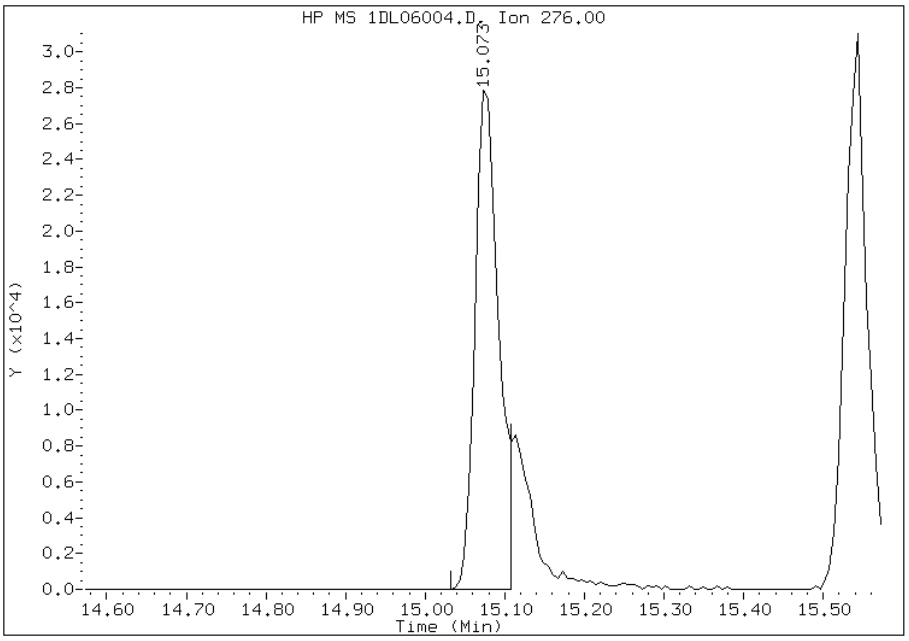

Manual Integration Results

RT: 15.07

Response: 57882

Amount: 1

Conc: 1




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DL06004.D
Inj. Date and Time: 06-DEC-2012 12:21
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/07/2012

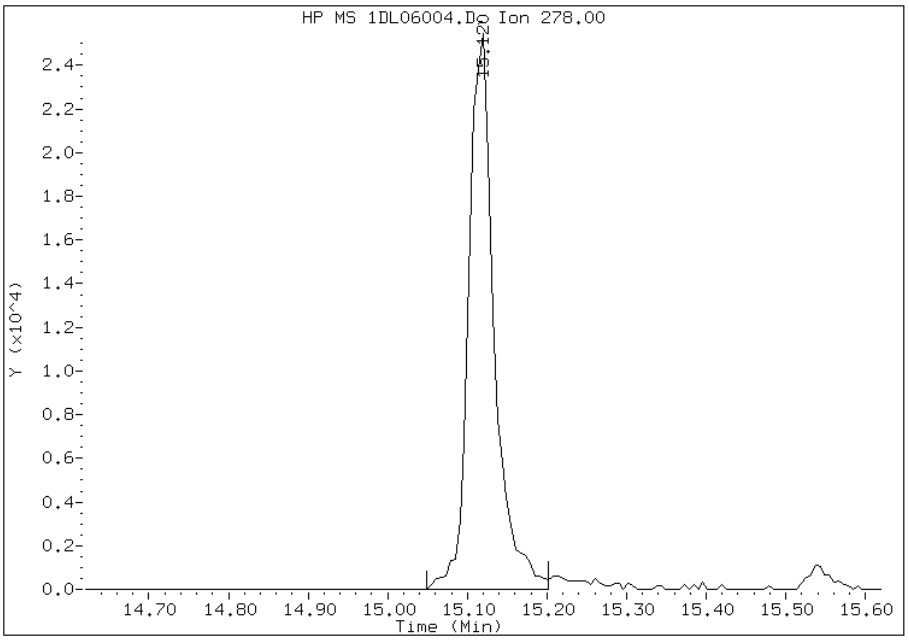
Processing Integration Results

RT: 15.12

Response: 57005

Amount: 1

Conc: 1



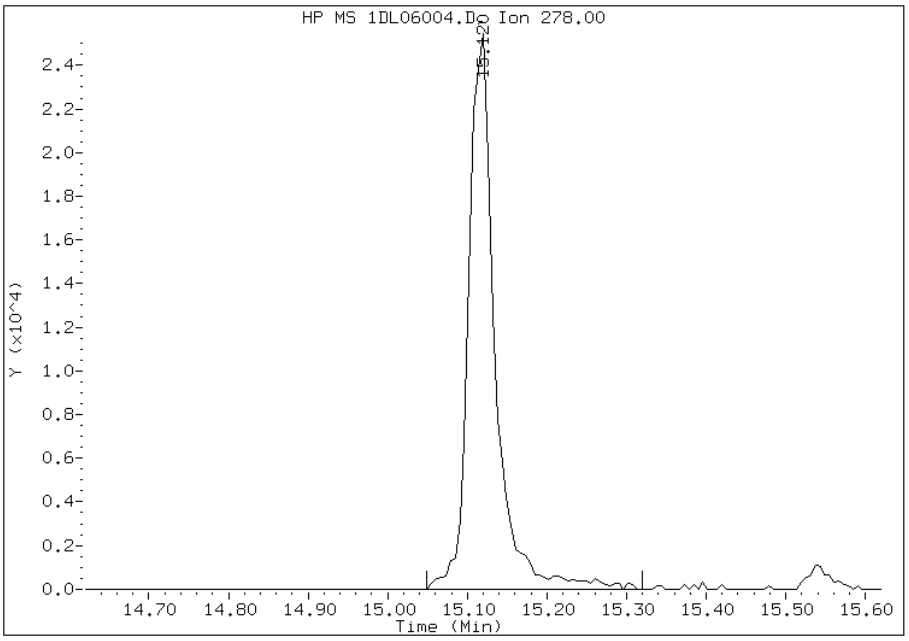

Manual Integration Results

RT: 15.12

Response: 59298

Amount: 1

Conc: 1




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL06004.D
Inj. Date and Time: 06-DEC-2012 12:21
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/07/2012

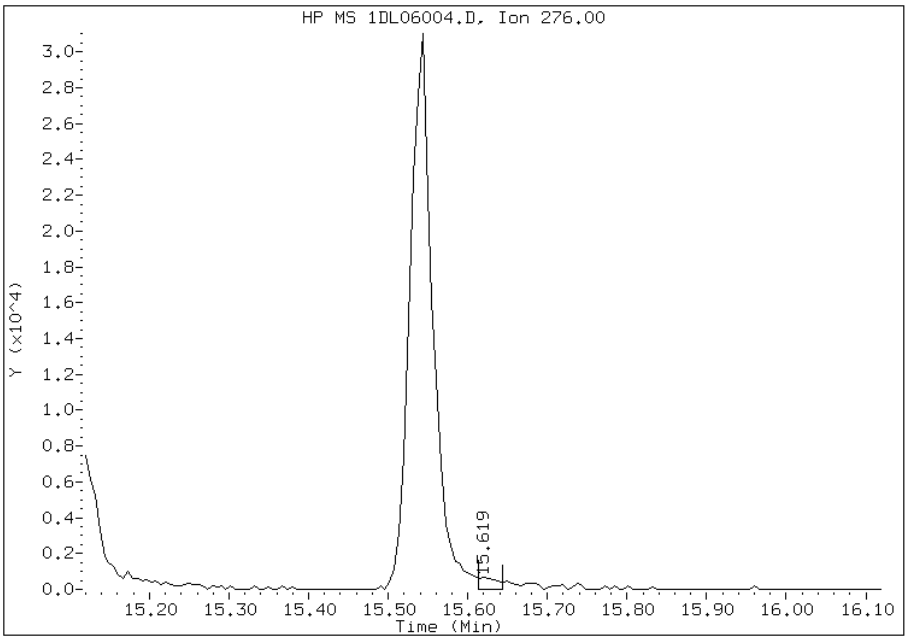
Processing Integration Results

RT: 15.62

Response: 1137

Amount: 0

Conc: 0



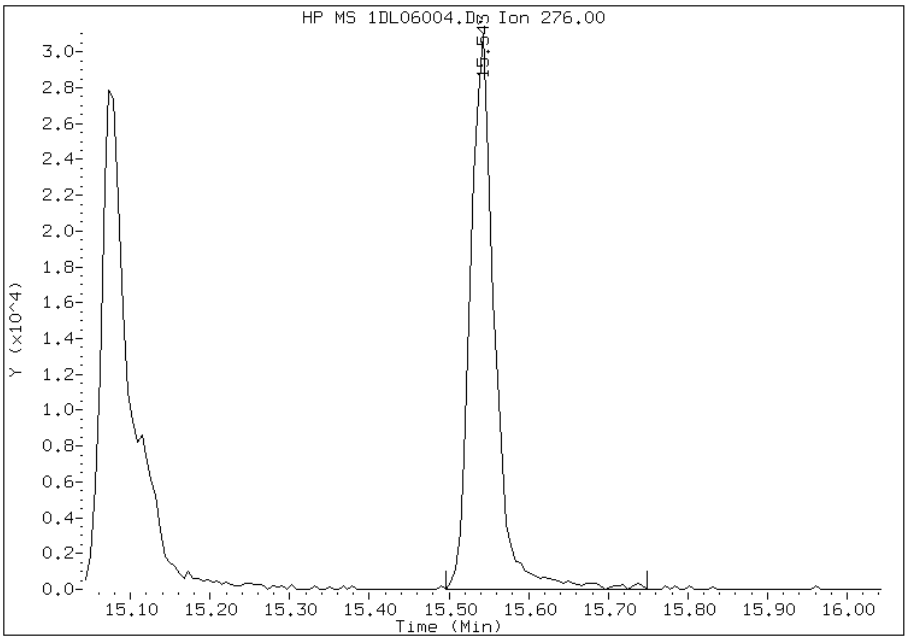

Manual Integration Results

RT: 15.54

Response: 65758

Amount: 1

Conc: 1




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:30
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06005.D
Lab Smp Id: IC-1473022
Inj Date : 06-DEC-2012 12:44
Operator : SCC  Inst ID: BSMSD.i
Smp Info : IC-1473022
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:33 BSMSD.i  Quant Type: ISTD
Cal Date : 06-DEC-2012 12:21  Cal File: 1DL06004.D
Als bottle: 5  Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.263 | 6.263 | (1.000) | 2832896 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.932 | 7.932 | (1.000) | 1641125 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.189 | 9.189 | (1.000) | 2667817 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.501 | 9.501 | (1.034) | 212337 | 5.00000 | 5.0 |
| * 17 Chrysene-d12 | 240 | 11.545 | 11.545 | (1.000) | 2605573 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.455 | 13.455 | (1.000) | 2693184 | 40.0000 | |
| 2 Naphthalene | 128 | 6.287 | 6.287 | (1.004) | 377017 | 5.00000 | 5.1 |
| 3 2-Methylnaphthalene | 142 | 6.980 | 6.980 | (1.114) | 240328 | 5.00000 | 5.1 |
| 4 1-Methylnaphthalene | 142 | 7.074 | 7.074 | (1.129) | 228335 | 5.00000 | 5.1 |
| 5 Acenaphthylene | 152 | 7.803 | 7.803 | (0.984) | 363874 | 5.00000 | 5.1 |
| 7 Acenaphthene | 154 | 7.955 | 7.955 | (1.003) | 221640 | 5.00000 | 5.1 |
| 8 Fluorene | 166 | 8.396 | 8.396 | (1.059) | 258036 | 5.00000 | 5.0 |
| 10 Phenanthrene | 178 | 9.207 | 9.207 | (1.002) | 381500 | 5.00000 | 5.0 |
| 11 Anthracene | 178 | 9.242 | 9.242 | (1.006) | 383783 | 5.00000 | 5.0 |
| 12 Carbazole | 167 | 9.371 | 9.371 | (1.020) | 344669 | 5.00000 | 5.1 |
| 14 Fluoranthene | 202 | 10.188 | 10.188 | (1.109) | 390746 | 5.00000 | 5.1 |
| 15 Pyrene | 202 | 10.376 | 10.376 | (0.899) | 419635 | 5.00000 | 5.0 |
| 16 Benzo(a)anthracene | 228 | 11.528 | 11.528 | (0.998) | 355206 | 5.00000 | 4.6 |
| 18 Chrysene | 228 | 11.569 | 11.569 | (1.002) | 374782 | 5.00000 | 5.1 |
| 19 Benzo(b)fluoranthene | 252 | 12.879 | 12.879 | (0.957) | 330615 | 5.00000 | 5.0 |
| 20 Benzo(k)fluoranthene | 252 | 12.920 | 12.920 | (0.960) | 379665 | 5.00000 | 5.2 |
| 21 Benzo(a)pyrene | 252 | 13.343 | 13.343 | (0.992) | 334951 | 5.00000 | 5.1 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.082 | 15.082 | (1.121) | 328639 | 5.00000 | 5.0(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.123 | 15.123 | (1.124) | 328907 | 5.00000 | 5.2(M) |
| 25 Benzo(g,h,i)perylene | 276 | 15.552 | 15.552 | (1.156) | 341709 | 5.00000 | 5.1(MH) |

QC Flag Legend

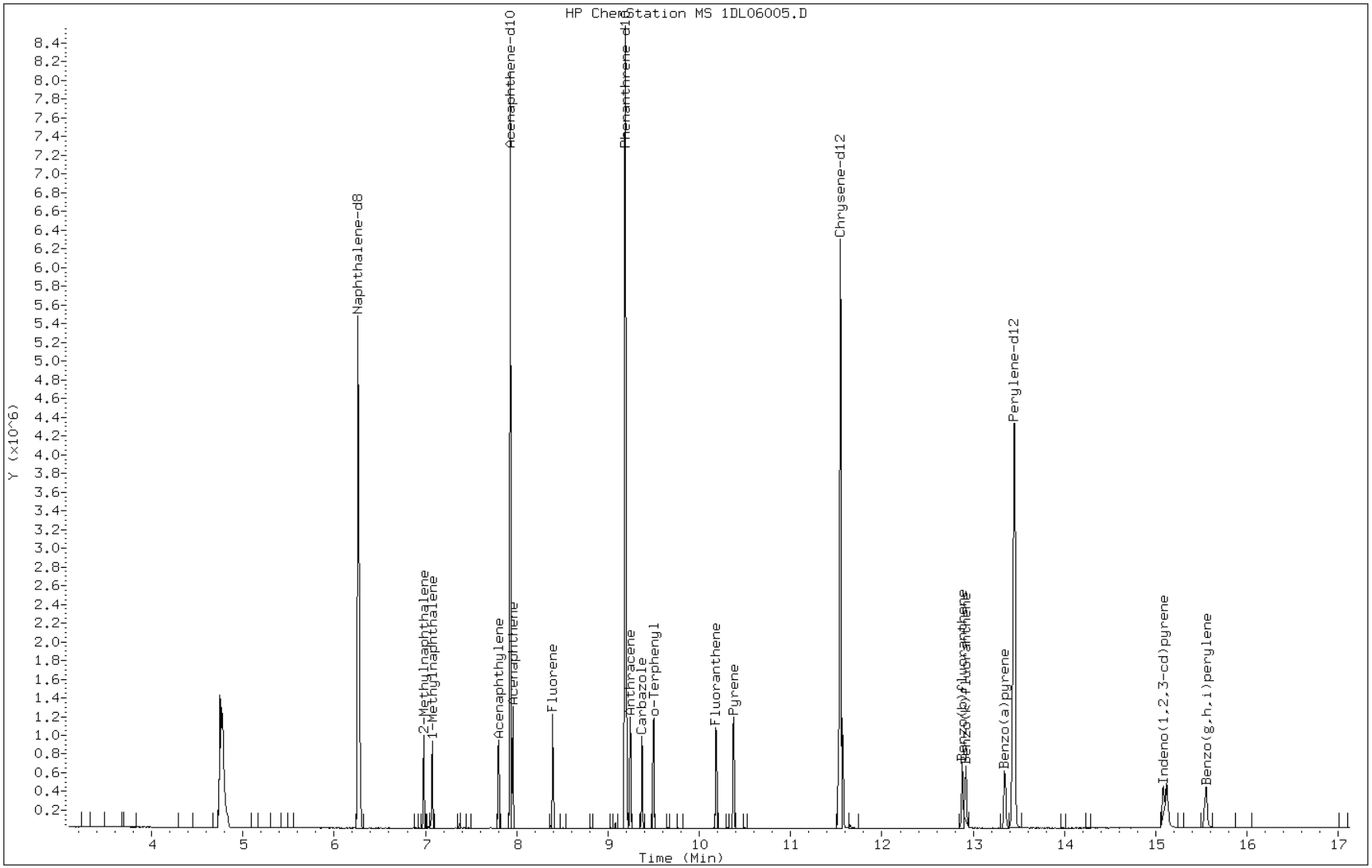
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL06005.D

Date: 06-DEC-2012 12:44

Client ID: Instrument: BSMSD.i

Sample Info: IC-1473022 Operator: SCC



Manual Integration Report

Data File: 1DL06005.D
Inj. Date and Time: 06-DEC-2012 12:44
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/07/2012

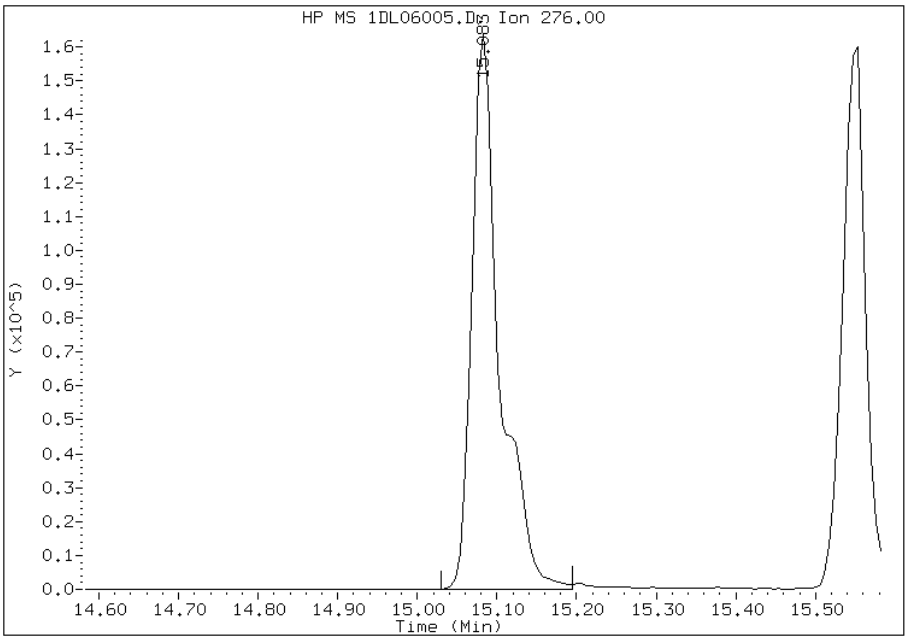
Processing Integration Results

RT: 15.08

Response: 393934

Amount: 6

Conc: 6



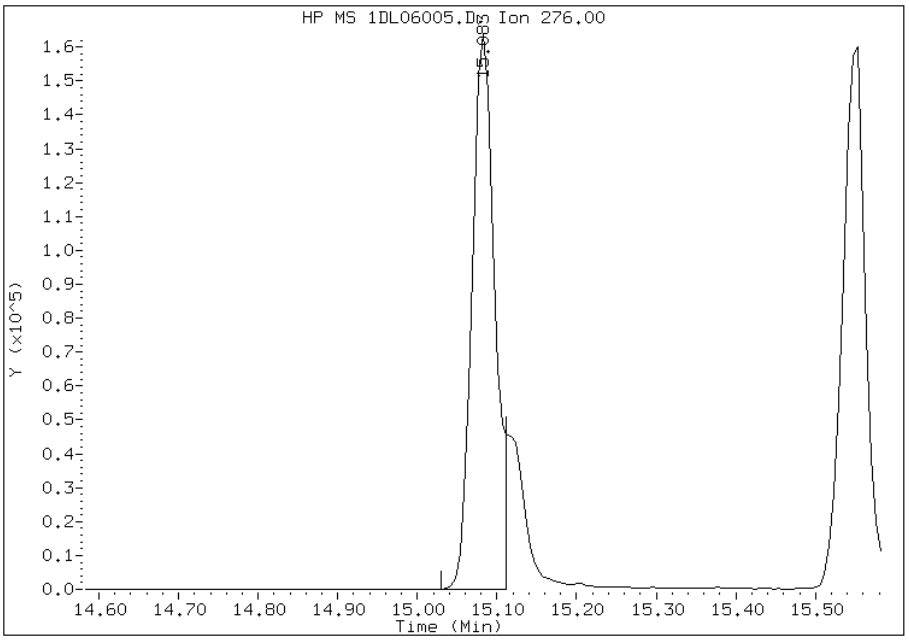

Manual Integration Results

RT: 15.08

Response: 328639

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DL06005.D
Inj. Date and Time: 06-DEC-2012 12:44
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/07/2012

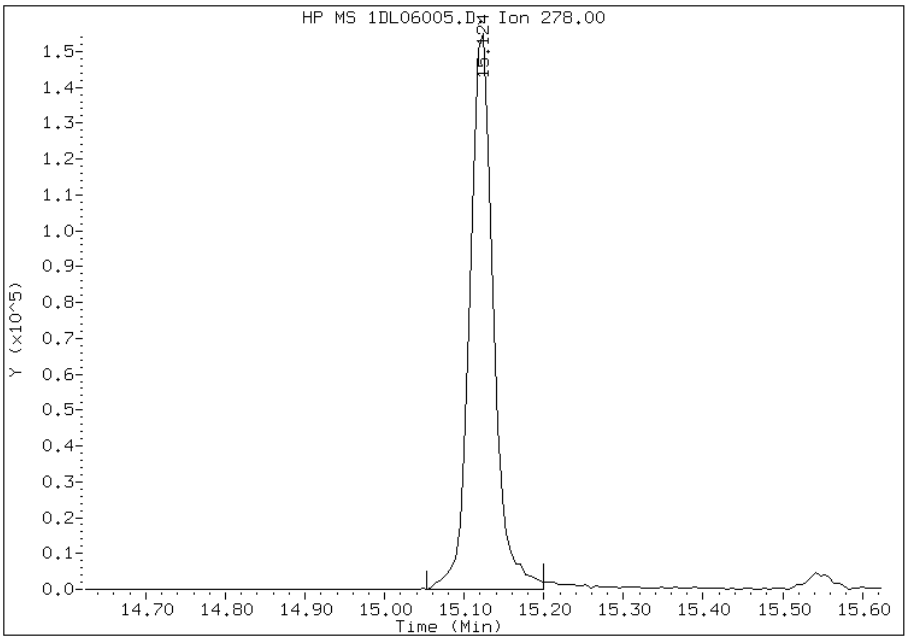
Processing Integration Results

RT: 15.12

Response: 319314

Amount: 5

Conc: 5



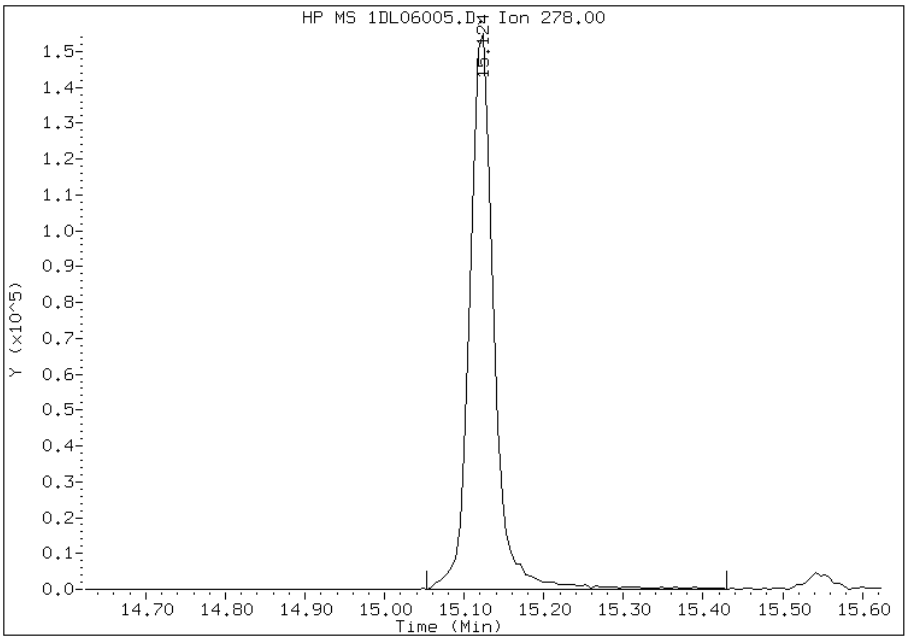

Manual Integration Results

RT: 15.12

Response: 328907

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DL06005.D
Inj. Date and Time: 06-DEC-2012 12:44
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 12/07/2012

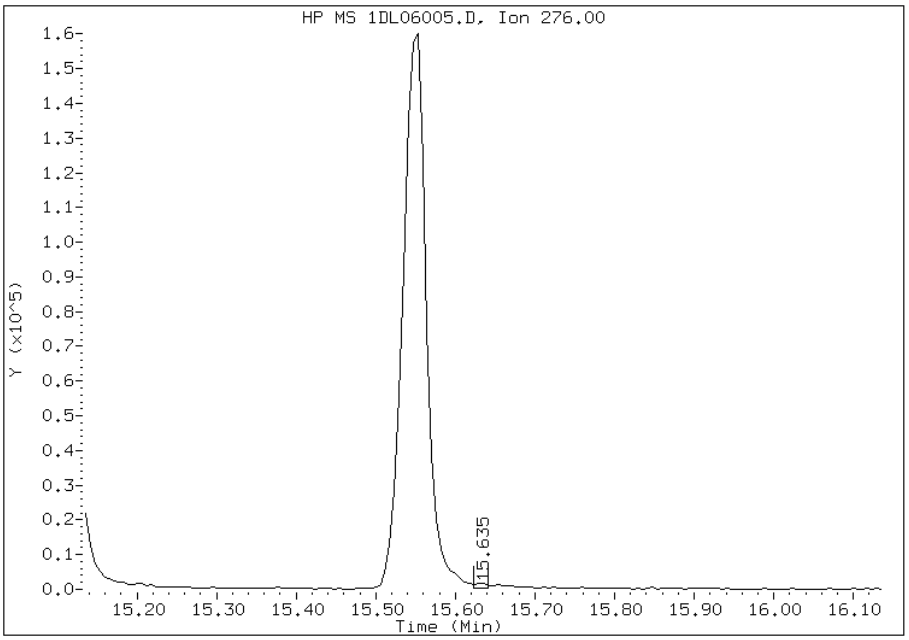
Processing Integration Results

RT: 15.64

Response: 1484

Amount: 0

Conc: 0



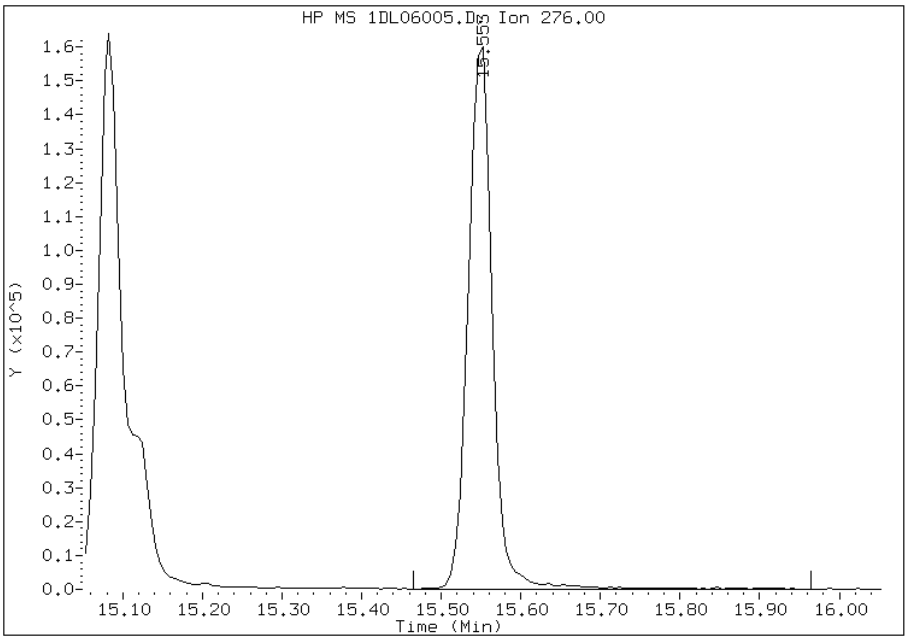

Manual Integration Results

RT: 15.55

Response: 341709

Amount: 5

Conc: 5




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:31
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06006.D
Lab Smp Id: IC-1473023
Inj Date : 06-DEC-2012 13:07
Operator : SCC  Inst ID: BSMSD.i
Smp Info : IC-1473023
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:33 BSMSD.i  Quant Type: ISTD
Cal Date : 06-DEC-2012 12:44  Cal File: 1DL06005.D
Als bottle: 6  Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.262 | 6.262 | (1.000) | 2903934 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.930 | 7.930 | (1.000) | 1700887 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.188 | 9.188 | (1.000) | 2713646 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.499 | 9.499 | (1.034) | 423676 | 10.0000 | 9.9 |
| * 17 Chrysene-d12 | 240 | 11.550 | 11.550 | (1.000) | 2662462 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.453 | 13.453 | (1.000) | 2740297 | 40.0000 | |
| 2 Naphthalene | 128 | 6.285 | 6.285 | (1.004) | 752160 | 10.0000 | 10 |
| 3 2-Methylnaphthalene | 142 | 6.979 | 6.979 | (1.114) | 485132 | 10.0000 | 10 |
| 4 1-Methylnaphthalene | 142 | 7.073 | 7.073 | (1.129) | 456072 | 10.0000 | 9.9 |
| 5 Acenaphthylene | 152 | 7.801 | 7.801 | (0.984) | 748229 | 10.0000 | 10 |
| 7 Acenaphthene | 154 | 7.954 | 7.954 | (1.003) | 441524 | 10.0000 | 9.8 |
| 8 Fluorene | 166 | 8.394 | 8.394 | (1.059) | 524494 | 10.0000 | 9.9 |
| 10 Phenanthrene | 178 | 9.205 | 9.205 | (1.002) | 754400 | 10.0000 | 9.7 |
| 11 Anthracene | 178 | 9.246 | 9.246 | (1.006) | 771974 | 10.0000 | 9.9 |
| 12 Carbazole | 167 | 9.376 | 9.376 | (1.020) | 666061 | 10.0000 | 9.7 |
| 14 Fluoranthene | 202 | 10.187 | 10.187 | (1.109) | 791852 | 10.0000 | 10 |
| 15 Pyrene | 202 | 10.375 | 10.375 | (0.898) | 849878 | 10.0000 | 10 |
| 16 Benzo(a)anthracene | 228 | 11.526 | 11.526 | (0.998) | 723343 | 10.0000 | 9.2 |
| 18 Chrysene | 228 | 11.573 | 11.573 | (1.002) | 744853 | 10.0000 | 9.9 |
| 19 Benzo(b)fluoranthene | 252 | 12.883 | 12.883 | (0.958) | 686137 | 10.0000 | 10 |
| 20 Benzo(k)fluoranthene | 252 | 12.924 | 12.924 | (0.961) | 755121 | 10.0000 | 10 |
| 21 Benzo(a)pyrene | 252 | 13.348 | 13.348 | (0.992) | 696146 | 10.0000 | 10 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.093 | 15.093 | (1.122) | 684369 | 10.0000 | 10 |
| 24 Dibenzo(a,h)anthracene | 278 | 15.128 | 15.128 | (1.124) | 663272 | 10.0000 | 10 |
| 25 Benzo(g,h,i)perylene | 276 | 15.557 | 15.557 | (1.156) | 695552 | 10.0000 | 10(H) |

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DL06006.D

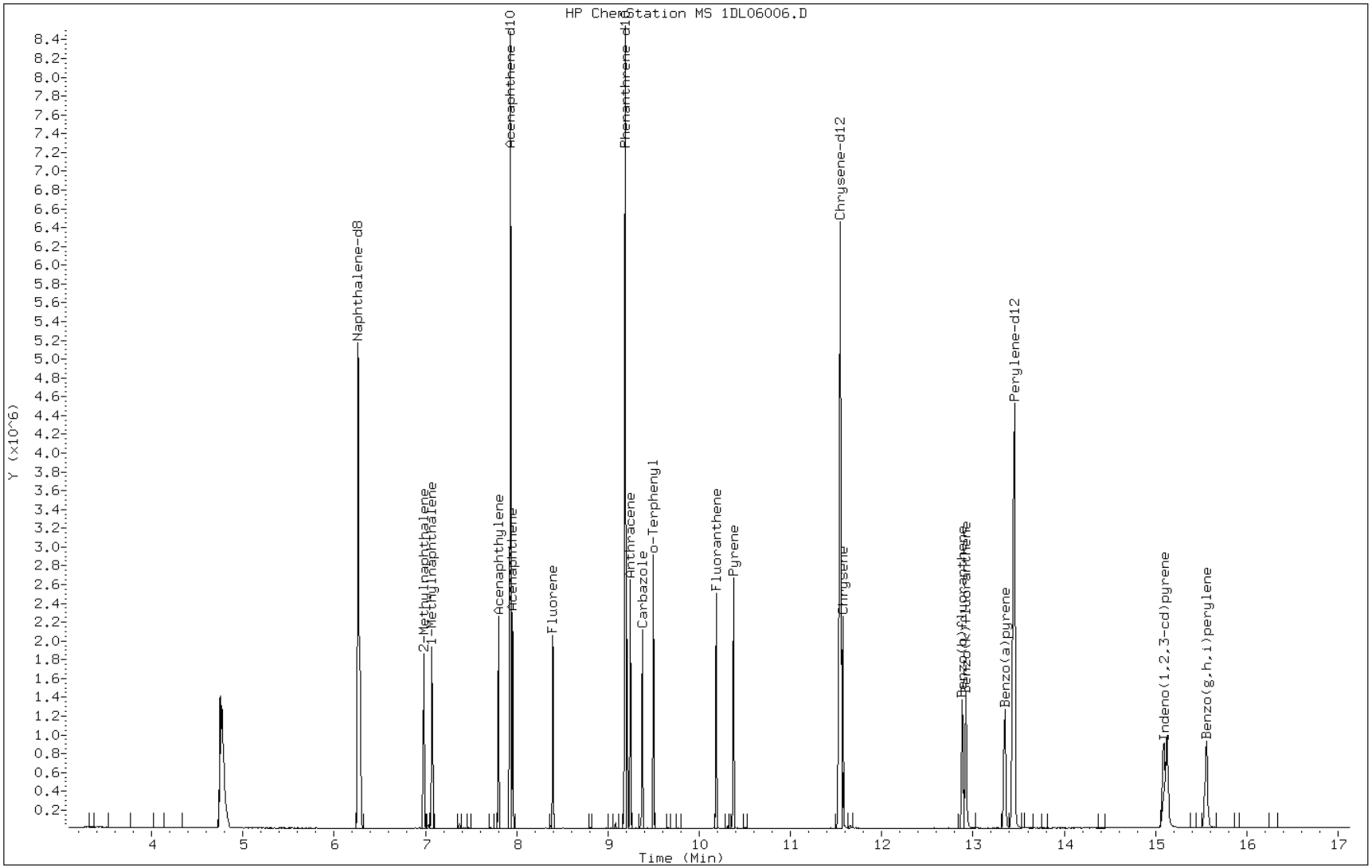
Date: 06-DEC-2012 13:07

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1473023

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06007.D
Lab Smp Id: IC-1473024
Inj Date : 06-DEC-2012 13:29
Operator : SCC  Inst ID: BSMSD.i
Smp Info : IC-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:33 BSMSD.i  Quant Type: ISTD
Cal Date : 06-DEC-2012 13:07  Cal File: 1DL06006.D
Als bottle: 7  Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.263 | 6.263 | (1.000) | 3126609 | 40.0000 | (H) |
| * 6 Acenaphthene-d10 | 164 | 7.932 | 7.932 | (1.000) | 1812557 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.189 | 9.189 | (1.000) | 2958101 | 40.0000 | (H) |
| $ 13 o-Terphenyl | 230 | 9.501 | 9.501 | (1.034) | 903234 | 20.0000 | 19 |
| * 17 Chrysene-d12 | 240 | 11.551 | 11.551 | (1.000) | 2867483 | 40.0000 | (H) |
| * 22 Perylene-d12 | 264 | 13.461 | 13.461 | (1.000) | 2964285 | 40.0000 | (H) |
| 2 Naphthalene | 128 | 6.287 | 6.287 | (1.004) | 1586209 | 20.0000 | 20(H) |
| 3 2-Methylnaphthalene | 142 | 6.980 | 6.980 | (1.114) | 1031265 | 20.0000 | 20(H) |
| 4 1-Methylnaphthalene | 142 | 7.074 | 7.074 | (1.129) | 956835 | 20.0000 | 19 |
| 5 Acenaphthylene | 152 | 7.803 | 7.803 | (0.984) | 1595770 | 20.0000 | 20 |
| 7 Acenaphthene | 154 | 7.956 | 7.956 | (1.003) | 924680 | 20.0000 | 19 |
| 8 Fluorene | 166 | 8.402 | 8.402 | (1.059) | 1112137 | 20.0000 | 20 |
| 10 Phenanthrene | 178 | 9.207 | 9.207 | (1.002) | 1602589 | 20.0000 | 19(H) |
| 11 Anthracene | 178 | 9.248 | 9.248 | (1.006) | 1630563 | 20.0000 | 19(H) |
| 12 Carbazole | 167 | 9.377 | 9.377 | (1.020) | 1439368 | 20.0000 | 19(H) |
| 14 Fluoranthene | 202 | 10.188 | 10.188 | (1.109) | 1676553 | 20.0000 | 20(H) |
| 15 Pyrene | 202 | 10.376 | 10.376 | (0.898) | 1773291 | 20.0000 | 19(H) |
| 16 Benzo(a)anthracene | 228 | 11.534 | 11.534 | (0.998) | 1536263 | 20.0000 | 18(H) |
| 18 Chrysene | 228 | 11.581 | 11.581 | (1.003) | 1524916 | 20.0000 | 19(H) |
| 19 Benzo(b)fluoranthene | 252 | 12.891 | 12.891 | (0.958) | 1468082 | 20.0000 | 20(H) |
| 20 Benzo(k)fluoranthene | 252 | 12.932 | 12.932 | (0.961) | 1616064 | 20.0000 | 20(H) |
| 21 Benzo(a)pyrene | 252 | 13.361 | 13.361 | (0.993) | 1496245 | 20.0000 | 21(H) |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.106 | 15.106 | (1.122) | 1553663 | 20.0000 | 22(H) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.147 | 15.147 | (1.125) | 1442459 | 20.0000 | 20(H) |
| 25 Benzo(g,h,i)perylene | 276 | 15.582 | 15.582 | (1.158) | 1489568 | 20.0000 | 20(H) |

QC Flag Legend

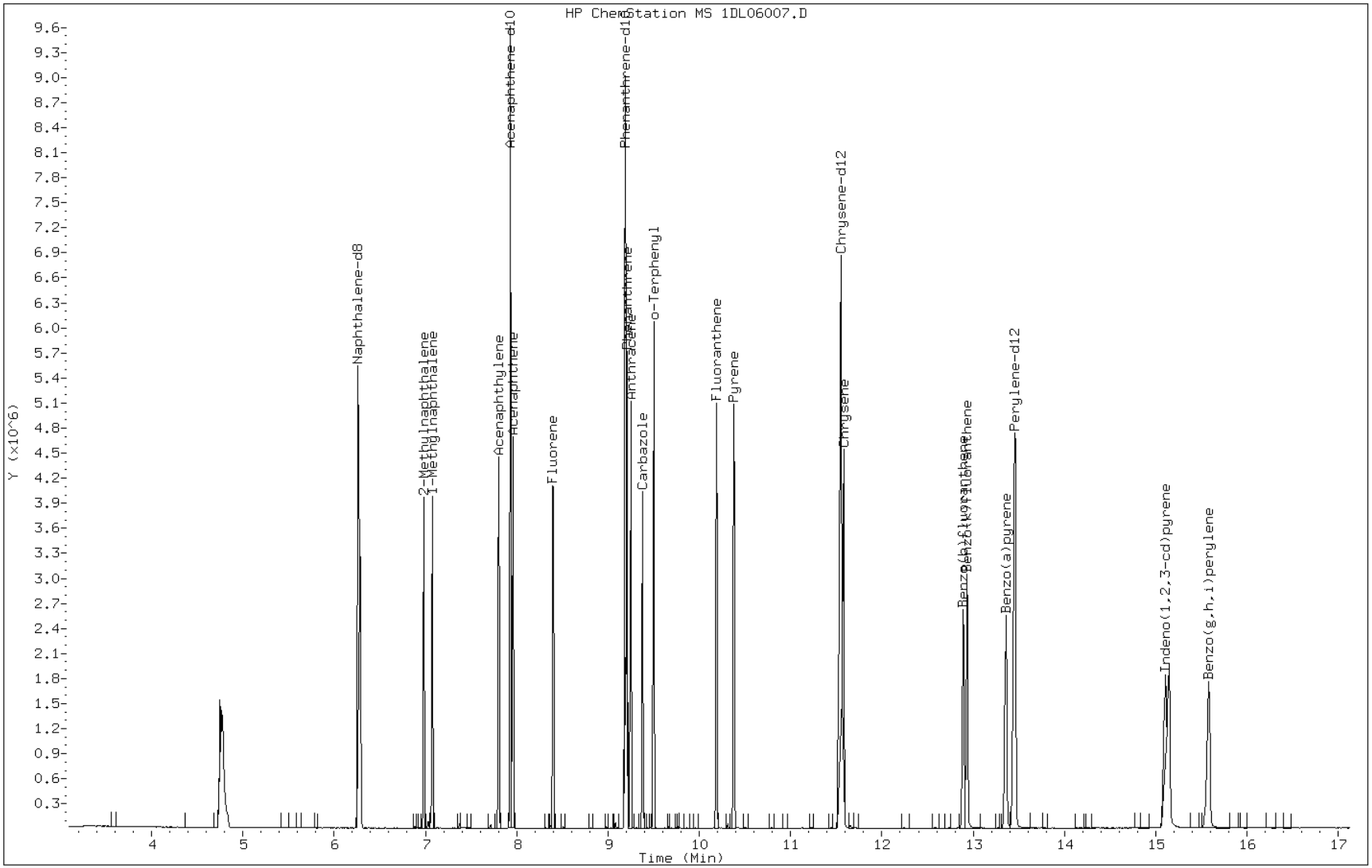
H - Operator selected an alternate compound hit.

Data File: 1DL06007.D

Date: 06-DEC-2012 13:29

Client ID: Instrument: BSMSD.i

Sample Info: IC-1473024 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06008.D
Lab Smp Id: IC-1473025
Inj Date : 06-DEC-2012 13:52
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1473025
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:33 BSMSD.i Quant Type: ISTD
Cal Date : 06-DEC-2012 13:29 Cal File: 1DL06007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.262 | 6.262 | (1.000) | 2993699 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.931 | 7.931 | (1.000) | 1734031 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.188 | 9.188 | (1.000) | 2809012 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.506 | 9.506 | (1.035) | 1289462 | 30.0000 | 29 |
| * 17 Chrysene-d12 | 240 | 11.556 | 11.556 | (1.000) | 2737775 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.460 | 13.460 | (1.000) | 2845725 | 40.0000 | |
| 2 Naphthalene | 128 | 6.286 | 6.286 | (1.004) | 2276882 | 30.0000 | 29 |
| 3 2-Methylnaphthalene | 142 | 6.985 | 6.985 | (1.115) | 1478495 | 30.0000 | 29 |
| 4 1-Methylnaphthalene | 142 | 7.079 | 7.079 | (1.130) | 1395714 | 30.0000 | 29 |
| 5 Acenaphthylene | 152 | 7.802 | 7.802 | (0.984) | 2282503 | 30.0000 | 30 |
| 7 Acenaphthene | 154 | 7.960 | 7.960 | (1.004) | 1328662 | 30.0000 | 29 |
| 8 Fluorene | 166 | 8.401 | 8.401 | (1.059) | 1602354 | 30.0000 | 30 |
| 10 Phenanthrene | 178 | 9.212 | 9.212 | (1.003) | 2290239 | 30.0000 | 28 |
| 11 Anthracene | 178 | 9.253 | 9.253 | (1.007) | 2345836 | 30.0000 | 29 |
| 12 Carbazole | 167 | 9.382 | 9.382 | (1.021) | 2030858 | 30.0000 | 28 |
| 14 Fluoranthene | 202 | 10.193 | 10.193 | (1.109) | 2384610 | 30.0000 | 29 |
| 15 Pyrene | 202 | 10.381 | 10.381 | (0.898) | 2553452 | 30.0000 | 29 |
| 16 Benzo(a)anthracene | 228 | 11.533 | 11.533 | (0.998) | 2247348 | 30.0000 | 28 |
| 18 Chrysene | 228 | 11.580 | 11.580 | (1.002) | 2212349 | 30.0000 | 28 |
| 19 Benzo(b)fluoranthene | 252 | 12.896 | 12.896 | (0.958) | 2170386 | 30.0000 | 31 |
| 20 Benzo(k)fluoranthene | 252 | 12.943 | 12.943 | (0.962) | 2293481 | 30.0000 | 30 |
| 21 Benzo(a)pyrene | 252 | 13.366 | 13.366 | (0.993) | 2192711 | 30.0000 | 31 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.117 | 15.117 | (1.123) | 2226123 | 30.0000 | 32 |
| 24 Dibenzo(a,h)anthracene | 278 | 15.158 | 15.158 | (1.126) | 2108354 | 30.0000 | 31 |
| 25 Benzo(g,h,i)perylene | 276 | 15.593 | 15.593 | (1.158) | 2190213 | 30.0000 | 31(H) |

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DL06008.D

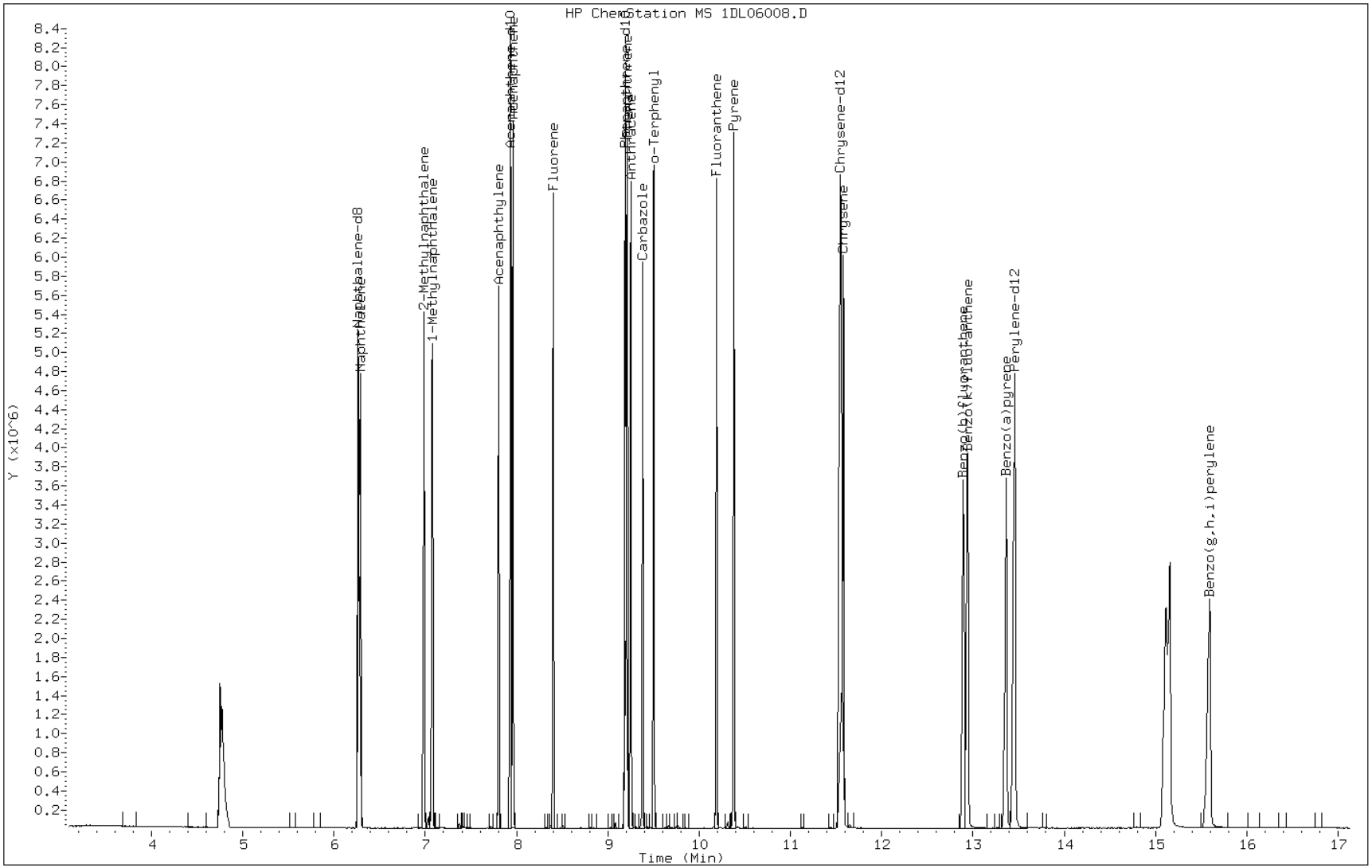
Date: 06-DEC-2012 13:52

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1473025

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06009.D
Lab Smp Id: IC-1473026
Inj Date : 06-DEC-2012 14:14
Operator : SCC  Inst ID: BSMSD.i
Smp Info : IC-1473026
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:33 BSMSD.i  Quant Type: ISTD
Cal Date : 06-DEC-2012 13:52  Cal File: 1DL06008.D
Als bottle: 9  Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.266 | 6.266 | (1.000) | 2944059 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.934 | 7.934 | (1.000) | 1701816 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.192 | 9.192 | (1.000) | 2758243 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.503 | 9.503 | (1.034) | 2073883 | 50.0000 | 48 |
| * 17 Chrysene-d12 | 240 | 11.559 | 11.559 | (1.000) | 2657352 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.463 | 13.463 | (1.000) | 2757679 | 40.0000 | |
| 2 Naphthalene | 128 | 6.289 | 6.289 | (1.004) | 3697992 | 50.0000 | 48 |
| 3 2-Methylnaphthalene | 142 | 6.988 | 6.988 | (1.115) | 2395715 | 50.0000 | 48 |
| 4 1-Methylnaphthalene | 142 | 7.076 | 7.076 | (1.129) | 2263101 | 50.0000 | 48 |
| 5 Acenaphthylene | 152 | 7.805 | 7.805 | (0.984) | 3651418 | 50.0000 | 49 |
| 7 Acenaphthene | 154 | 7.964 | 7.964 | (1.004) | 2144315 | 50.0000 | 48 |
| 8 Fluorene | 166 | 8.404 | 8.404 | (1.059) | 2539875 | 50.0000 | 48 |
| 10 Phenanthrene | 178 | 9.215 | 9.215 | (1.003) | 3692092 | 50.0000 | 47 |
| 11 Anthracene | 178 | 9.256 | 9.256 | (1.007) | 3760867 | 50.0000 | 48 |
| 12 Carbazole | 167 | 9.386 | 9.386 | (1.021) | 3314993 | 50.0000 | 47 |
| 14 Fluoranthene | 202 | 10.196 | 10.196 | (1.109) | 3851674 | 50.0000 | 48 |
| 15 Pyrene | 202 | 10.384 | 10.384 | (0.898) | 4033541 | 50.0000 | 48 |
| 16 Benzo(a)anthracene | 228 | 11.542 | 11.542 | (0.998) | 3570422 | 50.0000 | 46 |
| 18 Chrysene | 228 | 11.589 | 11.589 | (1.003) | 3527102 | 50.0000 | 47 |
| 19 Benzo(b)fluoranthene | 252 | 12.905 | 12.905 | (0.959) | 3548010 | 50.0000 | 52(A) |
| 20 Benzo(k)fluoranthene | 252 | 12.952 | 12.952 | (0.962) | 3643272 | 50.0000 | 48 |
| 21 Benzo(a)pyrene | 252 | 13.375 | 13.375 | (0.993) | 3543421 | 50.0000 | 52(A) |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.132 | 15.132 | (1.124) | 3822919 | 50.0000 | 57(A) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.179 | 15.179 | (1.127) | 3399096 | 50.0000 | 52(A) |
| 25 Benzo(g,h,i)perylene | 276 | 15.619 | 15.619 | (1.160) | 3513793 | 50.0000 | 51(AH) |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: 1DL06009.D

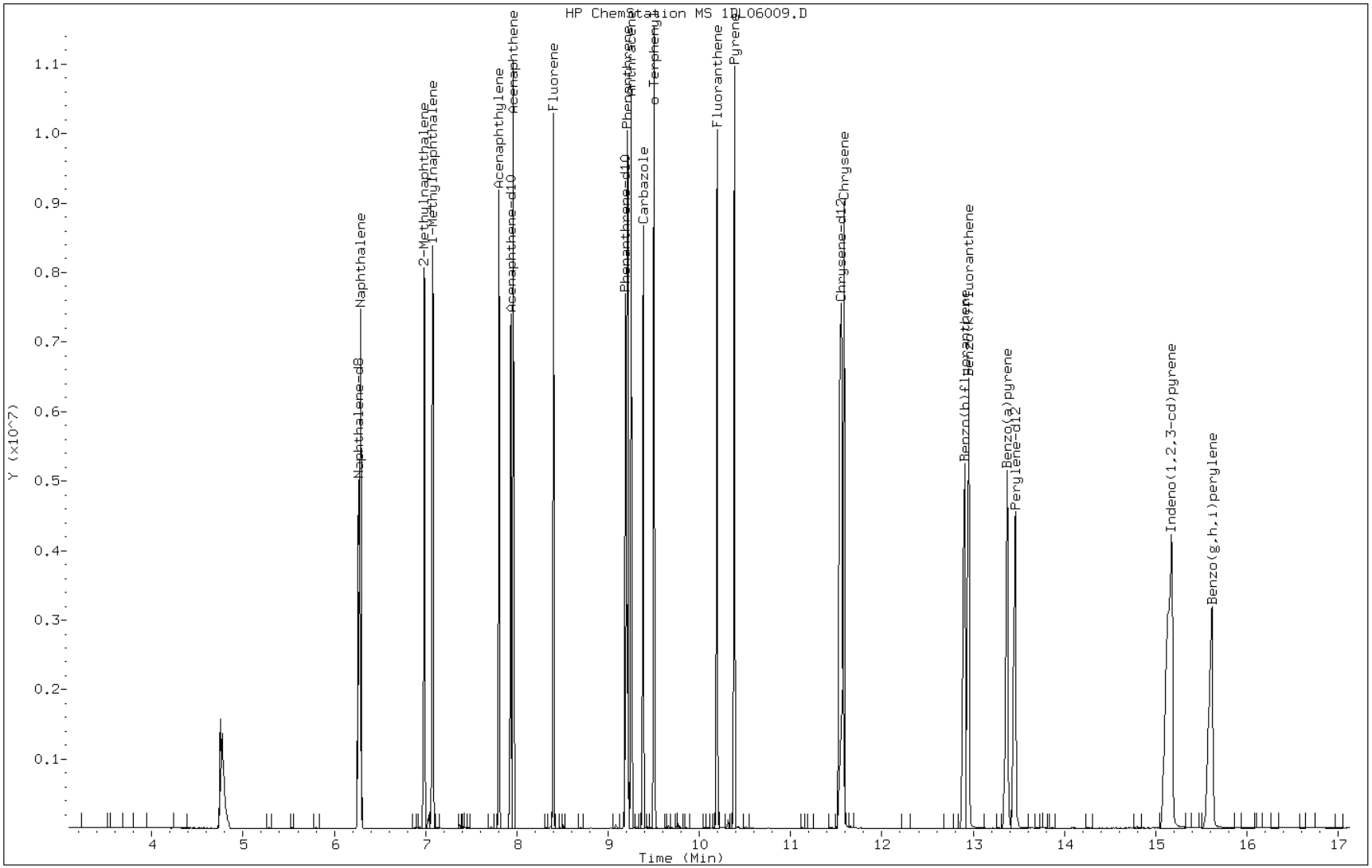
Date: 06-DEC-2012 14:14

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1473026

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: ICV 660-131833/10 Calibration Date: 11/26/2012 15:35

Instrument ID: BSMA5973 Calib Start Date: 11/26/2012 13:48

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 11/26/2012 15:20

Lab File ID: 1AK26010.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 0.9631 | 0.9444 | 0.0000 | 19600 | 20000 | -1.9 | 35.0 |
| 2-Methylnaphthalene | Ave | 0.5480 | 0.5568 | 0.0000 | 20300 | 20000 | 1.6 | 35.0 |
| 1-Methylnaphthalene | Ave | 0.5728 | 0.6102 | 0.0000 | 21300 | 20000 | 6.5 | 35.0 |
| Acenaphthylene | Ave | 1.684 | 1.613 | 0.0000 | 19200 | 20000 | -4.2 | 35.0 |
| Acenaphthene | Ave | 0.9469 | 0.8962 | 0.0000 | 18900 | 20000 | -5.4 | 35.0 |
| Fluorene | Ave | 1.148 | 1.134 | 0.0000 | 19700 | 20000 | -1.3 | 35.0 |
| Phenanthrene | Ave | 1.027 | 0.9427 | 0.0000 | 18400 | 20000 | -8.2 | 35.0 |
| Anthracene | Ave | 1.010 | 0.9441 | 0.0000 | 18700 | 20000 | -6.5 | 35.0 |
| Carbazole | Ave | 0.8758 | 0.8071 | 0.0000 | 18400 | 20000 | -7.8 | 35.0 |
| Fluoranthene | Ave | 1.081 | 1.079 | 0.0000 | 20000 | 20000 | -0.1 | 35.0 |
| Pyrene | Ave | 1.179 | 1.150 | 0.0000 | 19500 | 20000 | -2.4 | 35.0 |
| Benzo[a]anthracene | LinF | 1.178 | 1.054 | 0.0000 | 19700 | 20000 | -1.5 | 35.0 |
| Chrysene | Ave | 1.040 | 0.9169 | 0.0000 | 17600 | 20000 | -11.8 | 35.0 |
| Benzo[b]fluoranthene | Ave | 1.060 | 1.095 | 0.0000 | 20700 | 20000 | 3.3 | 35.0 |
| Benzo[k]fluoranthene | Ave | 1.149 | 1.006 | 0.0000 | 17500 | 20000 | -12.5 | 35.0 |
| Benzo[a]pyrene | Ave | 1.012 | 0.8991 | 0.0000 | 17800 | 20000 | -11.2 | 35.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9303 | 0.9760 | 0.0000 | 21000 | 20000 | 4.9 | 35.0 |
| Dibenz(a,h)anthracene | Ave | 0.8354 | 0.9790 | 0.0000 | 23400 | 20000 | 17.2 | 35.0 |
| Benzo[g,h,i]perylene | Ave | 0.9300 | 0.9559 | 0.0000 | 20600 | 20000 | 2.8 | 35.0 |
| o-Terphenyl | Ave | 0.5931 | 0.5064 | 0.0000 | 17100 | 20000 | -14.6 | 35.0 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26010.D
Lab Smp Id: ICV-1448440
Inj Date : 26-NOV-2012 15:35
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-bFASTPAHi-m.m
Meth Date : 27-Nov-2012 09:59 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Vo | 1000.000 | Sample Volume |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | mL to L conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1= if no con |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.776 | 2.773 | (1.000) | 760524 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.817 | 3.815 | (1.000) | 463040 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.811 | 4.814 | (1.000) | 729168 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.105 | 5.108 | (1.061) | 184606 | 17.0747 | 17.0747 |
| * 18 Chrysene-d12 | 240 | 6.884 | 6.886 | (1.000) | 672174 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.995 | 7.992 | (1.000) | 627465 | 40.0000 | |
| 2 Naphthalene | 128 | 2.786 | 2.784 | (1.004) | 359131 | 19.6113 | 19.6113 |
| 3 2-Methylnaphthalene | 141 | 3.187 | 3.190 | (1.148) | 211726 | 20.3204 | 20.3203 |
| 4 1-Methylnaphthalene | 142 | 3.246 | 3.248 | (1.169) | 232038 | 21.3068 | 21.3067 |
| 5 Acenaphthylene | 152 | 3.726 | 3.724 | (0.976) | 373412 | 19.1525 | 19.1524 |
| 7 Acenaphthene | 154 | 3.833 | 3.836 | (1.004) | 207478 | 18.9276 | 18.9275 |
| 9 Fluorene | 166 | 4.164 | 4.162 | (1.091) | 262469 | 19.7463 | 19.7462 |
| 11 Phenanthrene | 178 | 4.827 | 4.830 | (1.003) | 343709 | 18.3504 | 18.3503 |
| 12 Anthracene | 178 | 4.864 | 4.862 | (1.011) | 344200 | 18.6964 | 18.6964 |
| 13 Carbazole | 167 | 4.993 | 4.995 | (1.038) | 294269 | 18.4324 | 18.4324 |
| 15 Fluoranthene | 202 | 5.719 | 5.722 | (1.189) | 393431 | 19.9725 | 19.9725 |
| 16 Pyrene | 202 | 5.895 | 5.893 | (0.856) | 386476 | 19.5133 | 19.5133 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 17 Benzo(a)anthracene | 228 | 6.873 | 6.870 | (0.998) | 354298 | 19.6975 | 19.6975 |
| 19 Chrysene | 228 | 6.905 | 6.902 | (1.003) | 308166 | 17.6392 | 17.6391 |
| 20 Benzo(b)fluoranthene | 252 | 7.706 | 7.704 | (0.964) | 343494 | 20.6659 | 20.6658 |
| 21 Benzo(k)fluoranthene | 252 | 7.728 | 7.725 | (0.967) | 315562 | 17.5087 | 17.5086 |
| 22 Benzo(a)pyrene | 252 | 7.941 | 7.939 | (0.993) | 282061 | 17.7683 | 17.7682 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.930 | 8.932 | (1.117) | 306205 | 20.9831 | 20.9831 |
| 25 Dibenzo(a,h)anthracene | 278 | 8.962 | 8.959 | (1.121) | 307127 | 23.4353 | 23.4353(M) |
| 26 Benzo(g,h,i)perylene | 276 | 9.218 | 9.216 | (1.153) | 299886 | 20.5560 | 20.5560 |

QC Flag Legend

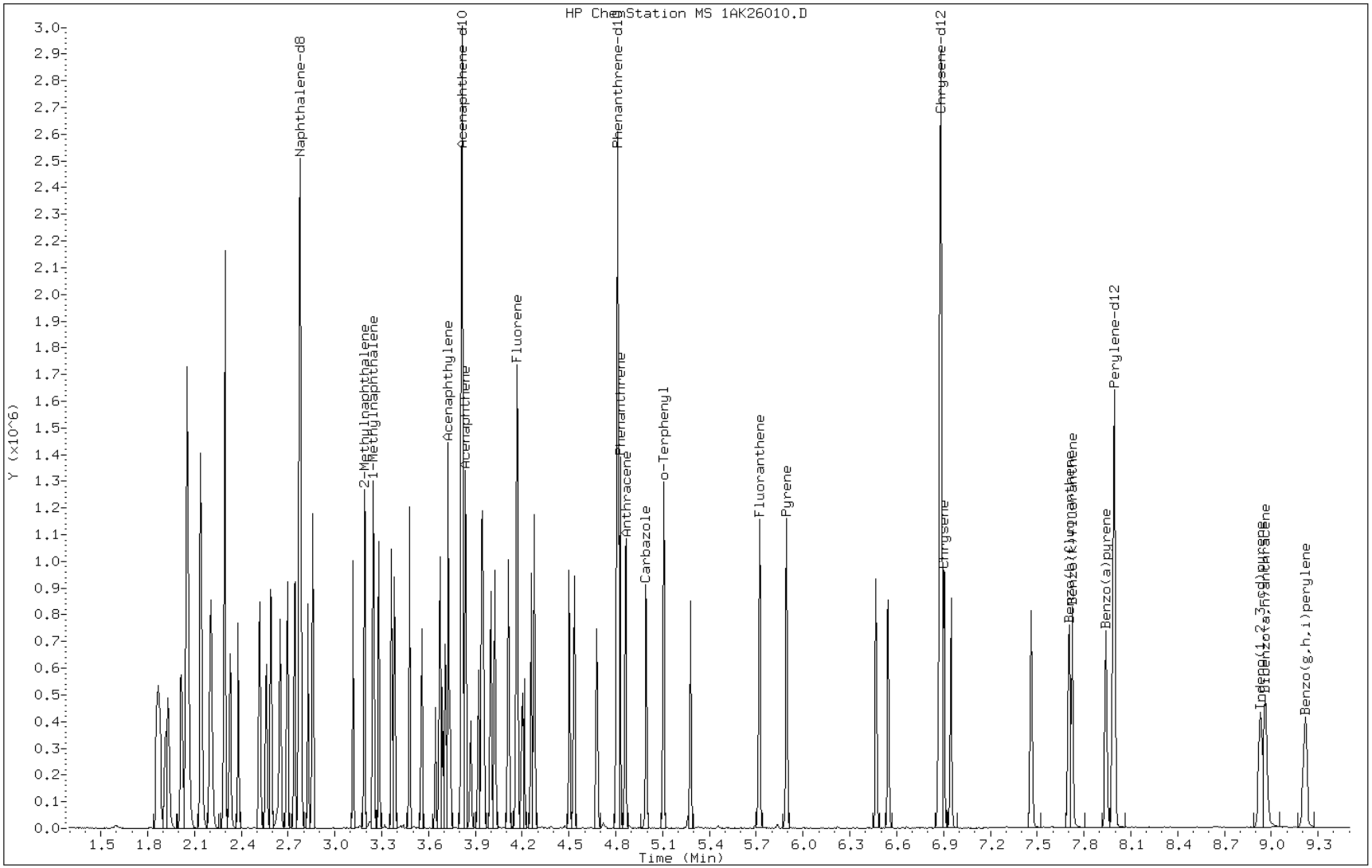
M - Compound response manually integrated.

Data File: 1AK26010.D

Date: 26-NOV-2012 15:35

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AK26010.D
Inj. Date and Time: 26-NOV-2012 15:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/27/2012

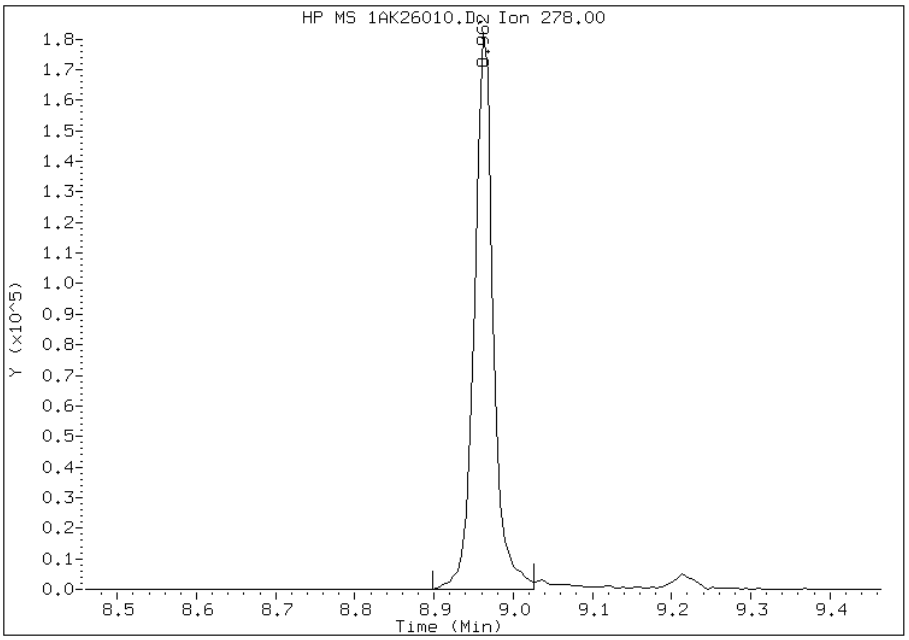
Processing Integration Results

RT: 8.96

Response: 298629

Amount: 23

Conc: 23



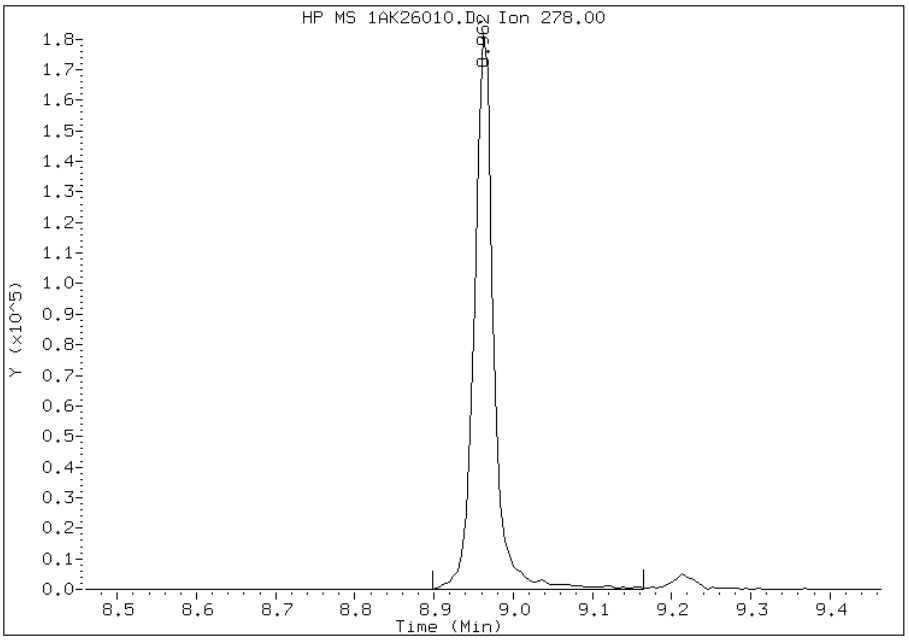

Manual Integration Results

RT: 8.96

Response: 307127

Amount: 23

Conc: 23




Manually Integrated By: cantins
Modification Date: 27-Nov-2012 10:02
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: CCVIS 660-132552/3 Calibration Date: 12/13/2012 11:21

Instrument ID: BSMA5973 Calib Start Date: 11/26/2012 13:48

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 11/26/2012 15:20

Lab File ID: 1AL13003.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 0.9631 | 0.9780 | 0.0000 | 20300 | 20000 | 1.5 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.5480 | 0.5436 | 0.0000 | 19800 | 20000 | -0.8 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.5728 | 0.5733 | 0.0000 | 20000 | 20000 | 0.0 | 20.0 |
| Acenaphthylene | Ave | 1.684 | 1.689 | 0.0000 | 20100 | 20000 | 0.3 | 20.0 |
| Acenaphthene | Ave | 0.9469 | 0.9171 | 0.0000 | 19400 | 20000 | -3.2 | 20.0 |
| Fluorene | Ave | 1.148 | 1.132 | 0.0000 | 19700 | 20000 | -1.4 | 20.0 |
| Phenanthrene | Ave | 1.027 | 0.9635 | 0.0000 | 18800 | 20000 | -6.2 | 20.0 |
| Anthracene | Ave | 1.010 | 0.9863 | 0.0000 | 19500 | 20000 | -2.3 | 20.0 |
| Carbazole | Ave | 0.8758 | 0.8625 | 0.0000 | 19700 | 20000 | -1.5 | 20.0 |
| Fluoranthene | Ave | 1.081 | 1.084 | 0.0000 | 20100 | 20000 | 0.3 | 20.0 |
| Pyrene | Ave | 1.179 | 1.177 | 0.0000 | 20000 | 20000 | -0.1 | 20.0 |
| Benzo[a]anthracene | LinF | 1.178 | 1.029 | 0.0000 | 19200 | 20000 | -3.9 | 20.0 |
| Chrysene | Ave | 1.040 | 1.001 | 0.0000 | 19300 | 20000 | -3.7 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.060 | 1.074 | 0.0000 | 20300 | 20000 | 1.4 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.149 | 1.075 | 0.0000 | 18700 | 20000 | -6.4 | 20.0 |
| Benzo[a]pyrene | Ave | 1.012 | 0.9903 | 0.0000 | 19600 | 20000 | -2.1 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9303 | 0.9704 | 0.0000 | 20900 | 20000 | 4.3 | 20.0 |
| Dibenz(a,h)anthracene | Ave | 0.8354 | 0.8950 | 0.0000 | 21400 | 20000 | 7.1 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 0.9300 | 0.9465 | 0.0000 | 20400 | 20000 | 1.8 | 20.0 |
| o-Terphenyl | Ave | 0.5931 | 0.6008 | 0.0000 | 20300 | 20000 | 1.3 | 20.0 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\1AL13003.D
Lab Smp Id: CCVIS-1473024
Inj Date : 13-DEC-2012 11:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\a-bFASTPAHi-m.m
Meth Date : 13-Dec-2012 11:33 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.752 | 2.752 | (1.000) | 906200 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.794 | 3.794 | (1.000) | 529335 | 40.0000 | (H) |
| * 10 Phenanthrene-d10 | 188 | 4.798 | 4.798 | (1.000) | 820034 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.081 | 5.081 | (1.059) | 246336 | 20.0000 | 20.2596 |
| * 18 Chrysene-d12 | 240 | 6.882 | 6.882 | (1.000) | 785863 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.998 | 7.998 | (1.000) | 762326 | 40.0000 | |
| 2 Naphthalene | 128 | 2.763 | 2.763 | (1.004) | 443127 | 20.0000 | 20.3082 |
| 3 2-Methylnaphthalene | 141 | 3.169 | 3.169 | (1.151) | 246316 | 20.0000 | 19.8398 |
| 4 1-Methylnaphthalene | 142 | 3.228 | 3.228 | (1.173) | 259753 | 20.0000 | 20.0173 |
| 5 Acenaphthylene | 152 | 3.708 | 3.708 | (0.977) | 447126 | 20.0000 | 20.0610(H) |
| 7 Acenaphthene | 154 | 3.815 | 3.815 | (1.006) | 242718 | 20.0000 | 19.3692(H) |
| 9 Fluorene | 166 | 4.141 | 4.141 | (1.092) | 299608 | 20.0000 | 19.7173(H) |
| 11 Phenanthrene | 178 | 4.814 | 4.814 | (1.003) | 395063 | 20.0000 | 18.7549 |
| 12 Anthracene | 178 | 4.846 | 4.846 | (1.010) | 404381 | 20.0000 | 19.5314 |
| 13 Carbazole | 167 | 4.990 | 4.990 | (1.040) | 353631 | 20.0000 | 19.6962 |
| 15 Fluoranthene | 202 | 5.712 | 5.712 | (1.190) | 444269 | 20.0000 | 20.0542 |
| 16 Pyrene | 202 | 5.888 | 5.888 | (0.856) | 462538 | 20.0000 | 19.9751 |
| 17 Benzo(a)anthracene | 228 | 6.866 | 6.866 | (0.998) | 404150 | 20.0000 | 19.2185 |
| 19 Chrysene | 228 | 6.898 | 6.898 | (1.002) | 393250 | 20.0000 | 19.2529 |
| 20 Benzo(b)fluoranthene | 252 | 7.704 | 7.704 | (0.963) | 409427 | 20.0000 | 20.2749 |
| 21 Benzo(k)fluoranthene | 252 | 7.726 | 7.726 | (0.966) | 409804 | 20.0000 | 18.7151 |
| 22 Benzo(a)pyrene | 252 | 7.945 | 7.945 | (0.993) | 377471 | 20.0000 | 19.5719 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.960 | 8.960 | (1.120) | 369869 | 20.0000 | 20.8619(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 8.981 | 8.981 | (1.123) | 341143 | 20.0000 | 21.4258 |
| 26 Benzo(g,h,i)perylene | 276 | 9.253 | 9.253 | (1.157) | 360767 | 20.0000 | 20.3544 |

QC Flag Legend

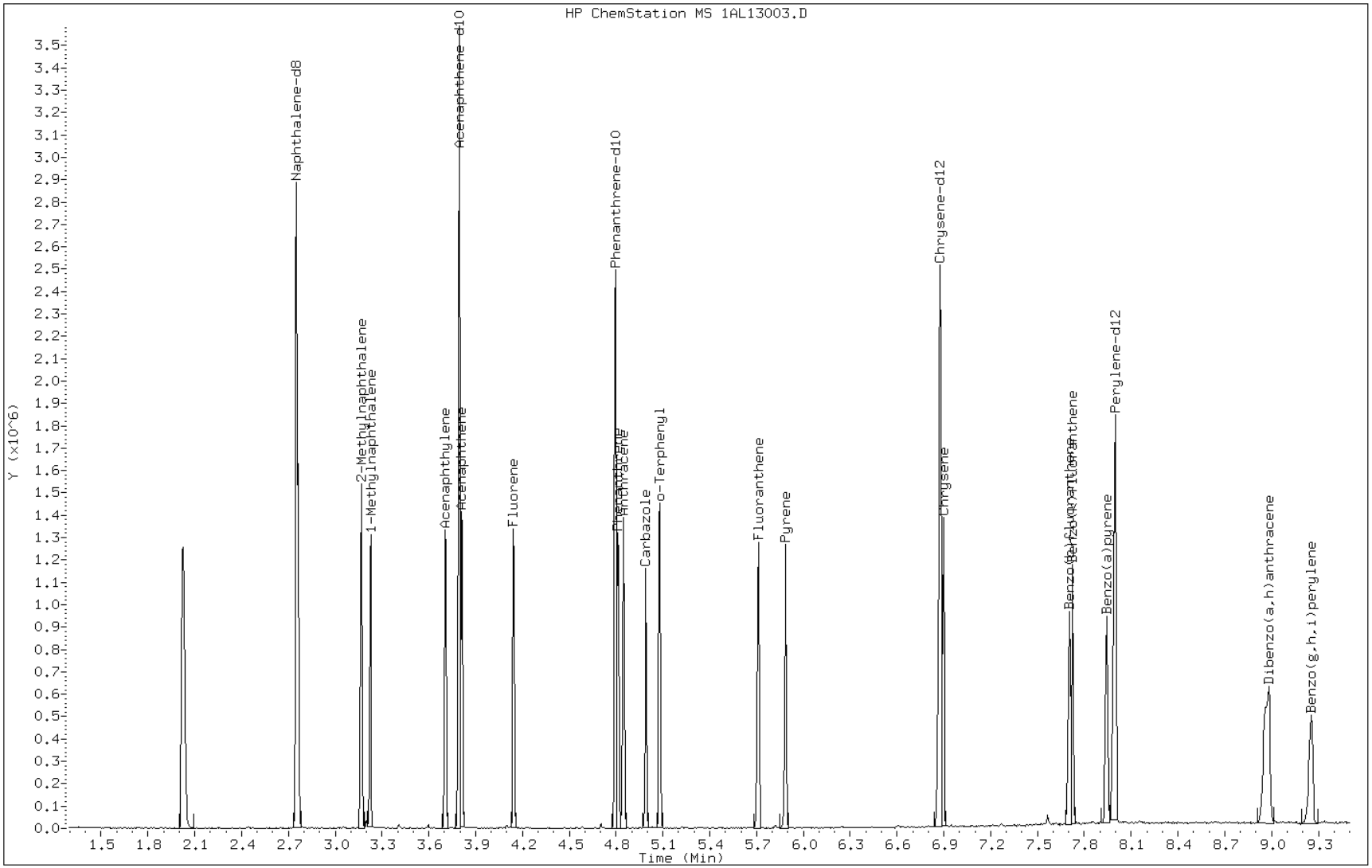
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AL13003.D

Date: 13-DEC-2012 11:21

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1473024 Operator: SCC



Manual Integration Report

Data File: 1AL13003.D
Inj. Date and Time: 13-DEC-2012 11:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/16/2012

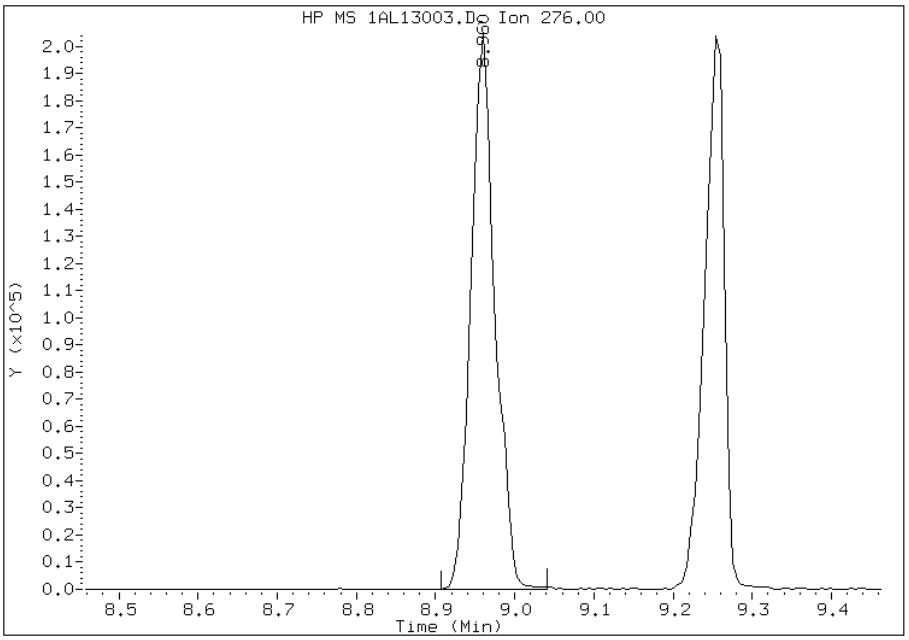
Processing Integration Results

RT: 8.96

Response: 428739

Amount: 24

Conc: 24



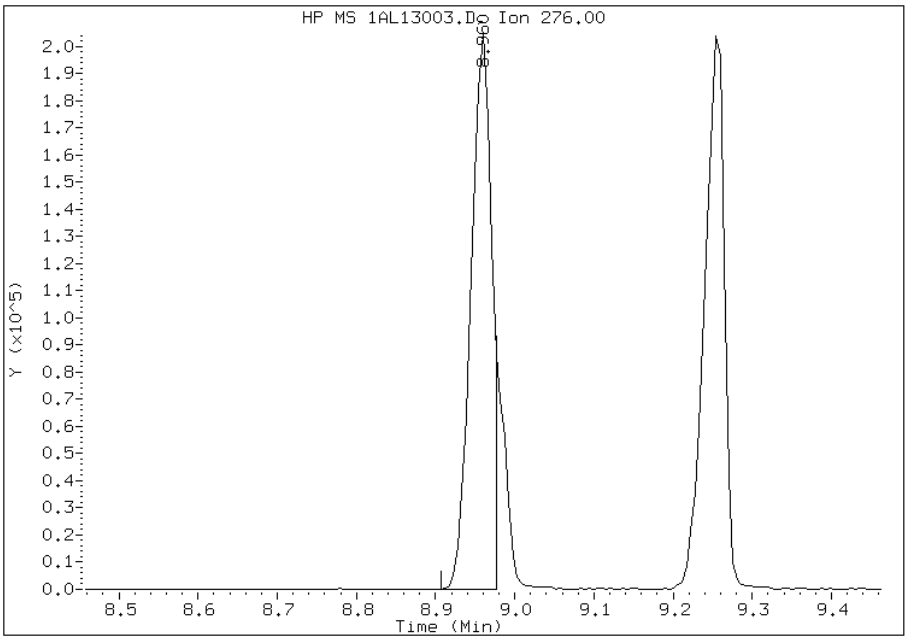

Manual Integration Results

RT: 8.96

Response: 369869

Amount: 21

Conc: 21




Manually Integrated By: cantins
Modification Date: 13-Dec-2012 11:34
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: CCVIS 660-132527/3 Calibration Date: 12/14/2012 12:13

Instrument ID: BSMA5973 Calib Start Date: 11/26/2012 13:48

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 11/26/2012 15:20

Lab File ID: 1AL14003.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 0.9631 | 0.9452 | 0.0000 | 19600 | 20000 | -1.9 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.5480 | 0.5201 | 0.0000 | 19000 | 20000 | -5.1 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.5728 | 0.5702 | 0.0000 | 19900 | 20000 | -0.5 | 20.0 |
| Acenaphthylene | Ave | 1.684 | 1.588 | 0.0000 | 18900 | 20000 | -5.7 | 20.0 |
| Acenaphthene | Ave | 0.9469 | 0.9099 | 0.0000 | 19200 | 20000 | -3.9 | 20.0 |
| Fluorene | Ave | 1.148 | 1.085 | 0.0000 | 18900 | 20000 | -5.5 | 20.0 |
| Phenanthrene | Ave | 1.027 | 0.9474 | 0.0000 | 18400 | 20000 | -7.8 | 20.0 |
| Anthracene | Ave | 1.010 | 0.9713 | 0.0000 | 19200 | 20000 | -3.8 | 20.0 |
| Carbazole | Ave | 0.8758 | 0.8463 | 0.0000 | 19300 | 20000 | -3.4 | 20.0 |
| Fluoranthene | Ave | 1.081 | 1.061 | 0.0000 | 19600 | 20000 | -1.8 | 20.0 |
| Pyrene | Ave | 1.179 | 1.138 | 0.0000 | 19300 | 20000 | -3.5 | 20.0 |
| Benzo[a]anthracene | LinF | 1.178 | 1.005 | 0.0000 | 18800 | 20000 | -6.1 | 20.0 |
| Chrysene | Ave | 1.040 | 0.9890 | 0.0000 | 19000 | 20000 | -4.9 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.060 | 1.015 | 0.0000 | 19200 | 20000 | -4.2 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.149 | 1.091 | 0.0000 | 19000 | 20000 | -5.1 | 20.0 |
| Benzo[a]pyrene | Ave | 1.012 | 0.9552 | 0.0000 | 18900 | 20000 | -5.6 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9303 | 0.8750 | 0.0000 | 18800 | 20000 | -5.9 | 20.0 |
| Dibenz(a,h)anthracene | Ave | 0.8354 | 0.8737 | 0.0000 | 20900 | 20000 | 4.6 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 0.9300 | 0.9007 | 0.0000 | 19400 | 20000 | -3.1 | 20.0 |
| o-Terphenyl | Ave | 0.5931 | 0.5841 | 0.0000 | 19700 | 20000 | -1.5 | 20.0 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14003.D
Lab Smp Id: CCVIS-1473024
Inj Date : 14-DEC-2012 12:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\a-bFASTPAHi-m.m
Meth Date : 14-Dec-2012 12:27 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.757 | 2.757 | (1.000) | 917256 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.799 | 3.799 | (1.000) | 536826 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.809 | 4.809 | (1.000) | 830006 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.086 | 5.086 | (1.058) | 242394 | 20.0000 | 19.6959 |
| * 18 Chrysene-d12 | 240 | 6.897 | 6.897 | (1.000) | 829329 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.025 | 8.025 | (1.000) | 822472 | 40.0000 | |
| 2 Naphthalene | 128 | 2.768 | 2.768 | (1.004) | 433503 | 20.0000 | 19.6276 |
| 3 2-Methylnaphthalene | 141 | 3.174 | 3.174 | (1.151) | 238535 | 20.0000 | 18.9815 |
| 4 1-Methylnaphthalene | 142 | 3.233 | 3.233 | (1.172) | 261502 | 20.0000 | 19.9092 |
| 5 Acenaphthylene | 152 | 3.714 | 3.714 | (0.978) | 426214 | 20.0000 | 18.8559 |
| 7 Acenaphthene | 154 | 3.820 | 3.820 | (1.006) | 244223 | 20.0000 | 19.2173 |
| 9 Fluorene | 166 | 4.152 | 4.152 | (1.093) | 291200 | 20.0000 | 18.8966 |
| 11 Phenanthrene | 178 | 4.825 | 4.825 | (1.003) | 393174 | 20.0000 | 18.4410 |
| 12 Anthracene | 178 | 4.857 | 4.857 | (1.010) | 403105 | 20.0000 | 19.2358 |
| 13 Carbazole | 167 | 5.006 | 5.006 | (1.041) | 351208 | 20.0000 | 19.3263 |
| 15 Fluoranthene | 202 | 5.727 | 5.727 | (1.191) | 440416 | 20.0000 | 19.6414 |
| 16 Pyrene | 202 | 5.904 | 5.904 | (0.856) | 471700 | 20.0000 | 19.3031 |
| 17 Benzo(a)anthracene | 228 | 6.887 | 6.887 | (0.998) | 416754 | 20.0000 | 18.7792 |
| 19 Chrysene | 228 | 6.919 | 6.919 | (1.003) | 410082 | 20.0000 | 19.0247 |
| 20 Benzo(b)fluoranthene | 252 | 7.725 | 7.725 | (0.963) | 417567 | 20.0000 | 19.1658 |
| 21 Benzo(k)fluoranthene | 252 | 7.747 | 7.747 | (0.965) | 448477 | 20.0000 | 18.9835 |
| 22 Benzo(a)pyrene | 252 | 7.971 | 7.971 | (0.993) | 392811 | 20.0000 | 18.8779 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 9.002 | 9.002 | (1.122) | 359820 | 20.0000 | 18.8110(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 9.024 | 9.024 | (1.124) | 359279 | 20.0000 | 20.9147 |
| 26 Benzo(g,h,i)perylene | 276 | 9.301 | 9.301 | (1.159) | 370418 | 20.0000 | 19.3706 |

QC Flag Legend

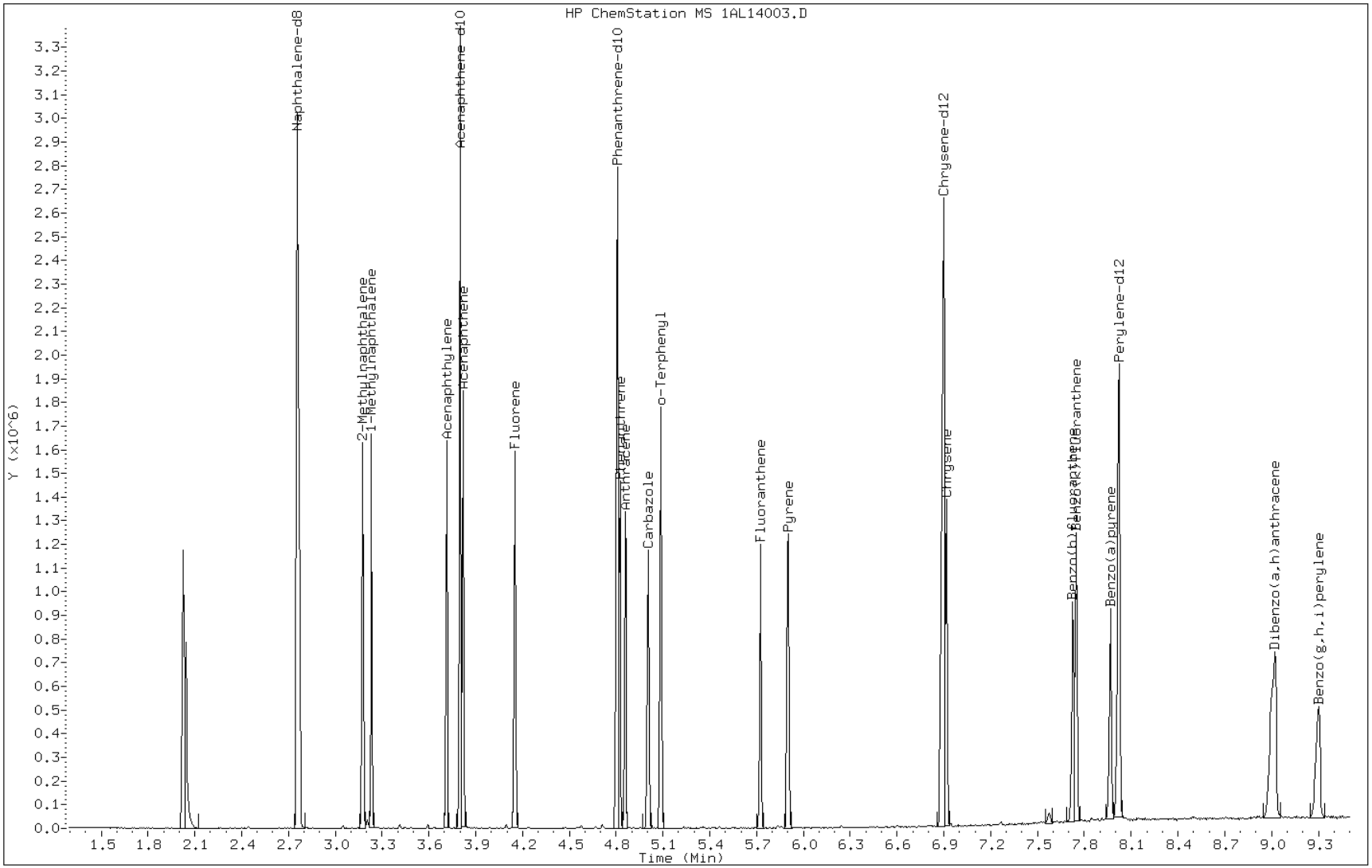
M - Compound response manually integrated.

Data File: 1AL14003.D

Date: 14-DEC-2012 12:13

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1473024 Operator: SCC



Manual Integration Report

Data File: 1AL14003.D
Inj. Date and Time: 14-DEC-2012 12:13
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/14/2012

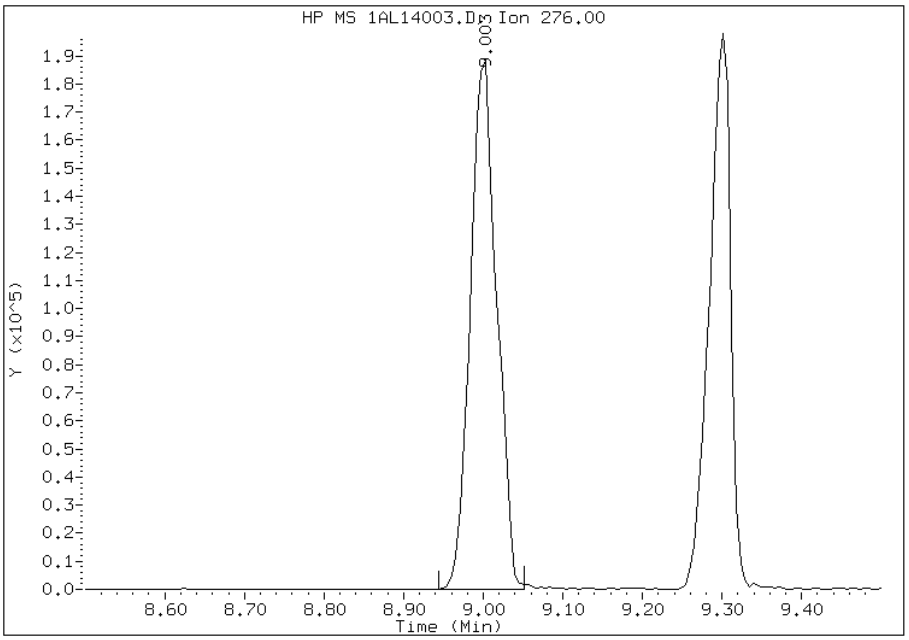
Processing Integration Results

RT: 9.00

Response: 440612

Amount: 23

Conc: 23



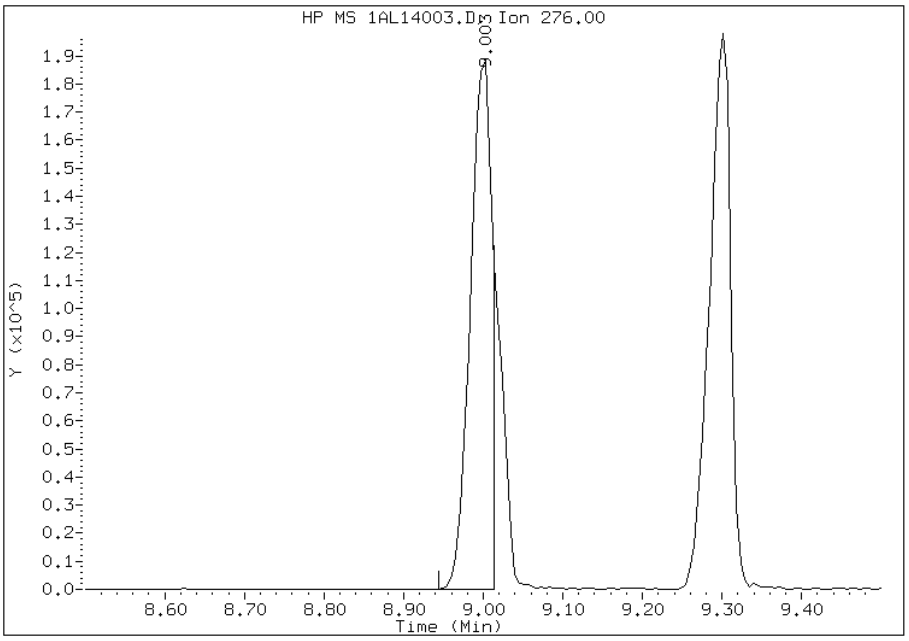

Manual Integration Results

RT: 9.00

Response: 359820

Amount: 19

Conc: 19




Manually Integrated By: cantins
Modification Date: 14-Dec-2012 12:27
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: ICV 660-131957/10 Calibration Date: 11/29/2012 13:25

Instrument ID: BSMC5973 Calib Start Date: 11/29/2012 11:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 11/29/2012 13:06

Lab File ID: 1CK29010.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.086 | 1.019 | 0.0000 | 18800 | 20000 | -6.1 | 35.0 |
| 2-Methylnaphthalene | Ave | 0.6582 | 0.6424 | 0.0000 | 19500 | 20000 | -2.4 | 35.0 |
| 1-Methylnaphthalene | Ave | 0.6402 | 0.6087 | 0.0000 | 19000 | 20000 | -4.9 | 35.0 |
| Acenaphthylene | Ave | 1.578 | 1.597 | 0.0000 | 20200 | 20000 | 1.2 | 35.0 |
| Acenaphthene | Ave | 0.9791 | 0.9865 | 0.0000 | 20200 | 20000 | 0.8 | 35.0 |
| Fluorene | Ave | 1.266 | 1.193 | 0.0000 | 18800 | 20000 | -5.8 | 35.0 |
| Phenanthrene | Ave | 1.165 | 1.056 | 0.0000 | 18100 | 20000 | -9.4 | 35.0 |
| Anthracene | Ave | 1.077 | 1.010 | 0.0000 | 18700 | 20000 | -6.3 | 35.0 |
| Carbazole | Ave | 0.9728 | 0.9313 | 0.0000 | 19100 | 20000 | -4.3 | 35.0 |
| Fluoranthene | Ave | 1.173 | 1.155 | 0.0000 | 19700 | 20000 | -1.5 | 35.0 |
| Pyrene | Ave | 1.099 | 1.088 | 0.0000 | 19800 | 20000 | -1.0 | 35.0 |
| Benzo[a]anthracene | Ave | 1.066 | 1.050 | 0.0000 | 19700 | 20000 | -1.5 | 35.0 |
| Chrysene | Ave | 1.145 | 1.038 | 0.0000 | 18100 | 20000 | -9.3 | 35.0 |
| Benzo[b]fluoranthene | Ave | 0.995 | 0.9176 | 0.0000 | 18400 | 20000 | -7.8 | 35.0 |
| Benzo[k]fluoranthene | Ave | 1.063 | 1.134 | 0.0000 | 21400 | 20000 | 6.8 | 35.0 |
| Benzo[a]pyrene | Ave | 0.9387 | 0.8530 | 0.0000 | 18200 | 20000 | -9.1 | 35.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9067 | 0.9458 | 0.0000 | 20900 | 20000 | 4.3 | 35.0 |
| Dibenz(a,h)anthracene | Ave | 0.8975 | 0.9778 | 0.0000 | 21800 | 20000 | 8.9 | 35.0 |
| Benzo[g,h,i]perylene | Ave | 0.9862 | 1.003 | 0.0000 | 20300 | 20000 | 1.7 | 35.0 |
| o-Terphenyl | Ave | 0.5681 | 0.5106 | 0.0000 | 18000 | 20000 | -10.1 | 35.0 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29010.D
Lab Smp Id: ICV-1448440
Inj Date : 29-NOV-2012 13:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 29-Nov-2012 15:48 cantins Quant Type: ISTD
Cal Date : 29-NOV-2012 13:06 Cal File: 1CK29009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Vo | 1000.000 | Sample Volume |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | mL to L conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1= if no con |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.921 | 3.922 | (1.000) | 2559683 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 5.010 | 5.010 | (1.000) | 1821949 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.968 | 5.975 | (1.000) | 3290747 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.221 | 6.228 | (1.042) | 840054 | 17.9750 | 17.9749 |
| * 18 Chrysene-d12 | 240 | 7.927 | 7.933 | (1.000) | 3654392 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.198 | 9.198 | (1.000) | 3944755 | 40.0000 | |
| 2 Naphthalene | 128 | 3.933 | 3.934 | (1.003) | 1304708 | 18.7798 | 18.7798 |
| 3 2-Methylnaphthalene | 142 | 4.357 | 4.363 | (1.111) | 822121 | 19.5174 | 19.5173 |
| 4 1-Methylnaphthalene | 142 | 4.421 | 4.422 | (1.127) | 779094 | 19.0164 | 19.0163 |
| 5 Acenaphthylene | 152 | 4.921 | 4.922 | (0.982) | 1454798 | 20.2434 | 20.2434 |
| 7 Acenaphthene | 154 | 5.027 | 5.028 | (1.004) | 898704 | 20.1522 | 20.1521 |
| 9 Fluorene | 166 | 5.351 | 5.351 | (1.068) | 1086777 | 18.8486 | 18.8486 |
| 11 Phenanthrene | 178 | 5.986 | 5.986 | (1.003) | 1736713 | 18.1155 | 18.1154 |
| 12 Anthracene | 178 | 6.021 | 6.022 | (1.009) | 1661524 | 18.7455 | 18.7454 |
| 13 Carbazole | 167 | 6.127 | 6.128 | (1.027) | 1532315 | 19.1458 | 19.1458 |
| 15 Fluoranthene | 202 | 6.833 | 6.833 | (1.145) | 1900111 | 19.6934 | 19.6934 |
| 16 Pyrene | 202 | 7.004 | 7.004 | (0.884) | 1987948 | 19.7999 | 19.7998 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 17 Benzo(a)anthracene | 228 | 7.921 | 7.922 | (0.999) | 1918343 | 19.6997 | 19.6997 |
| 19 Chrysene | 228 | 7.951 | 7.951 | (1.003) | 1896834 | 18.1307 | 18.1306 |
| 20 Benzo(b)fluoranthene | 252 | 8.815 | 8.822 | (0.958) | 1809933 | 18.4366 | 18.4365 |
| 21 Benzo(k)fluoranthene | 252 | 8.845 | 8.845 | (0.962) | 2237627 | 21.3510 | 21.3509 |
| 22 Benzo(a)pyrene | 252 | 9.139 | 9.145 | (0.994) | 1682514 | 18.1743 | 18.1743 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.492 | 10.504 | (1.141) | 1865446 | 20.8631 | 20.8630(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.515 | 10.521 | (1.143) | 1928582 | 21.7894 | 21.7893(M) |
| 26 Benzo(g,h,i)perylene | 276 | 10.886 | 10.898 | (1.184) | 1978606 | 20.3435 | 20.3434(M) |

QC Flag Legend

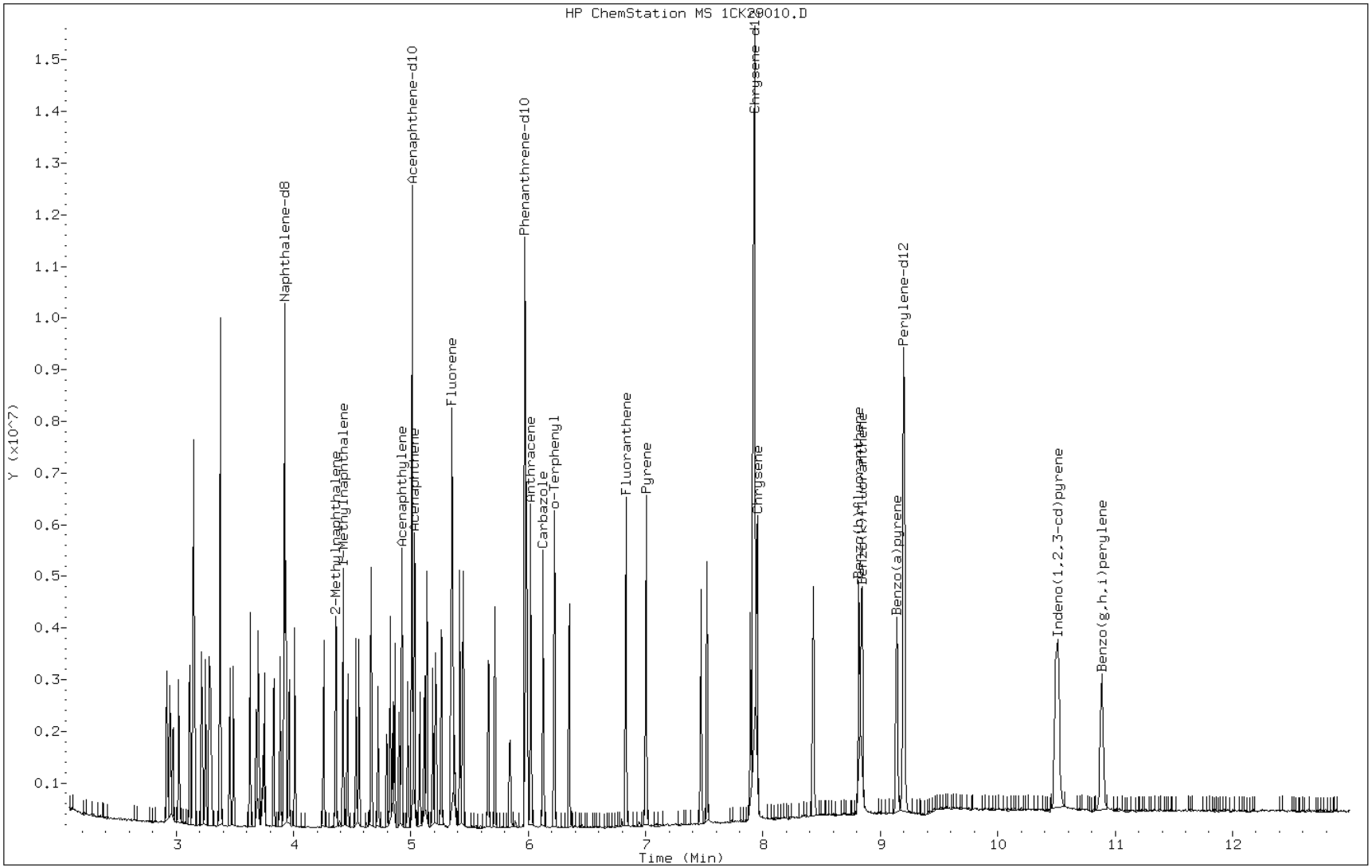
M - Compound response manually integrated.

Data File: 1CK29010.D

Date: 29-NOV-2012 13:25

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CK29010.D
Inj. Date and Time: 29-NOV-2012 13:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 11/29/2012

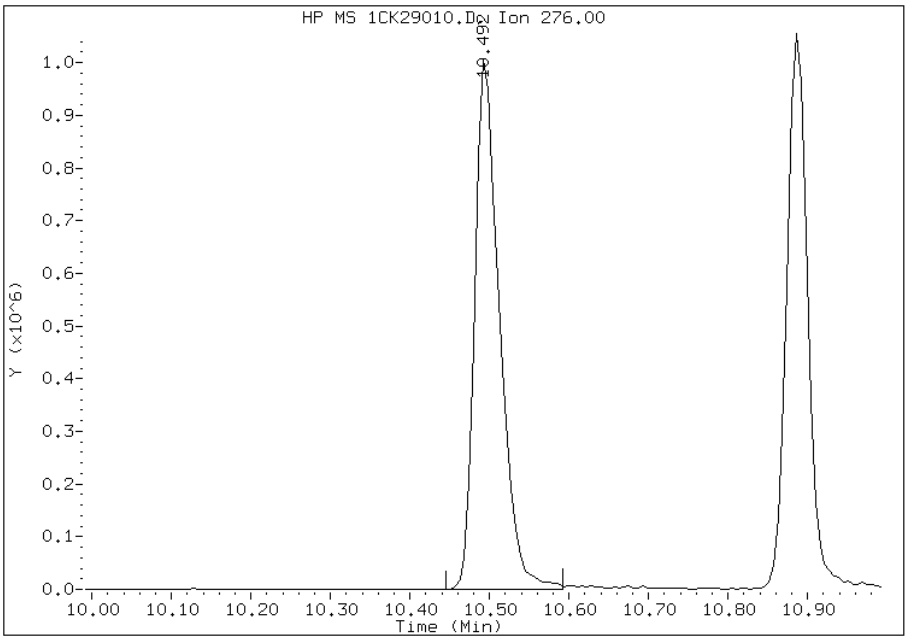
Processing Integration Results

RT: 10.49

Response: 2163351

Amount: 24

Conc: 806



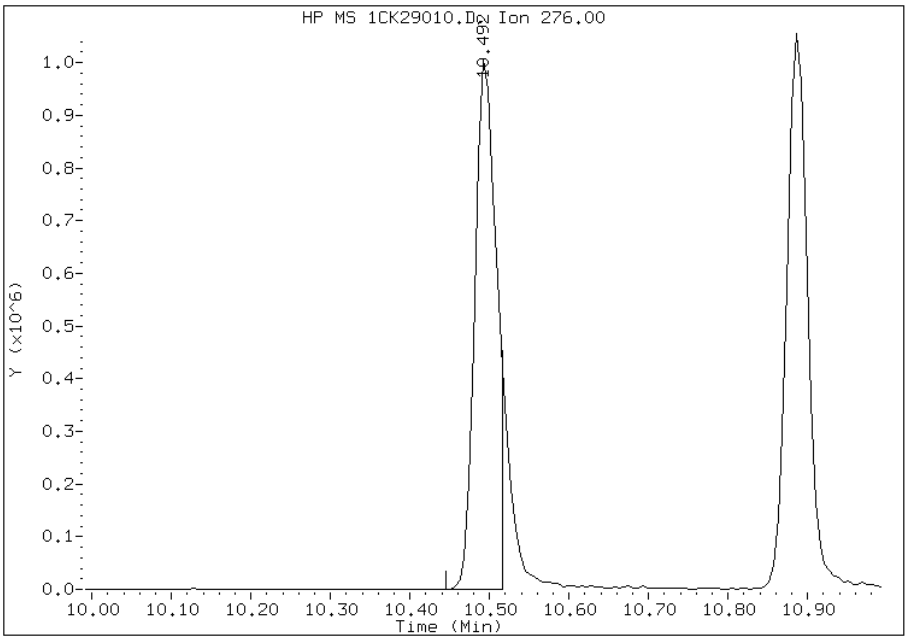

Manual Integration Results

RT: 10.49

Response: 1865446

Amount: 21

Conc: 21




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CK29010.D
Inj. Date and Time: 29-NOV-2012 13:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 11/29/2012

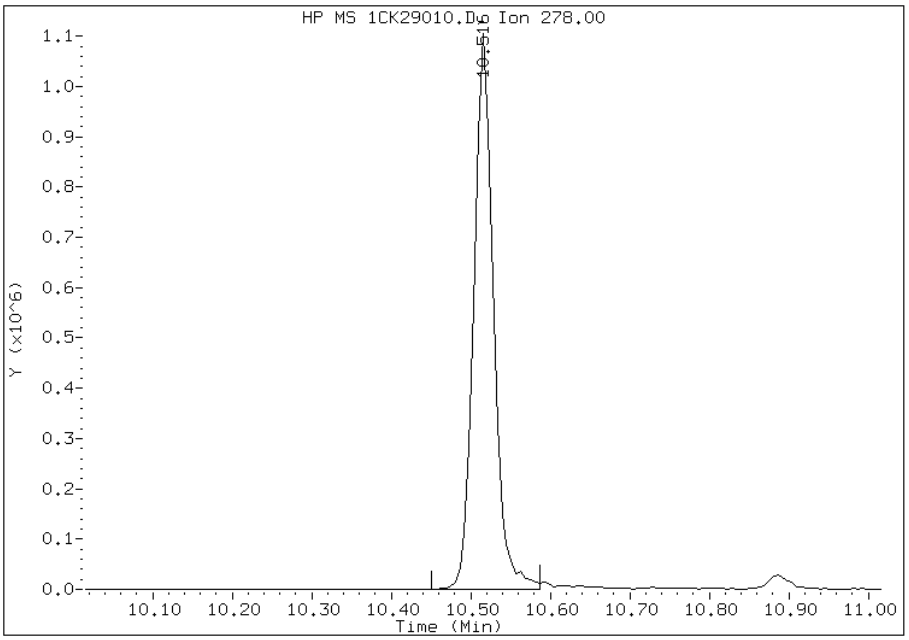
Processing Integration Results

RT: 10.52

Response: 1879071

Amount: 21

Conc: 708



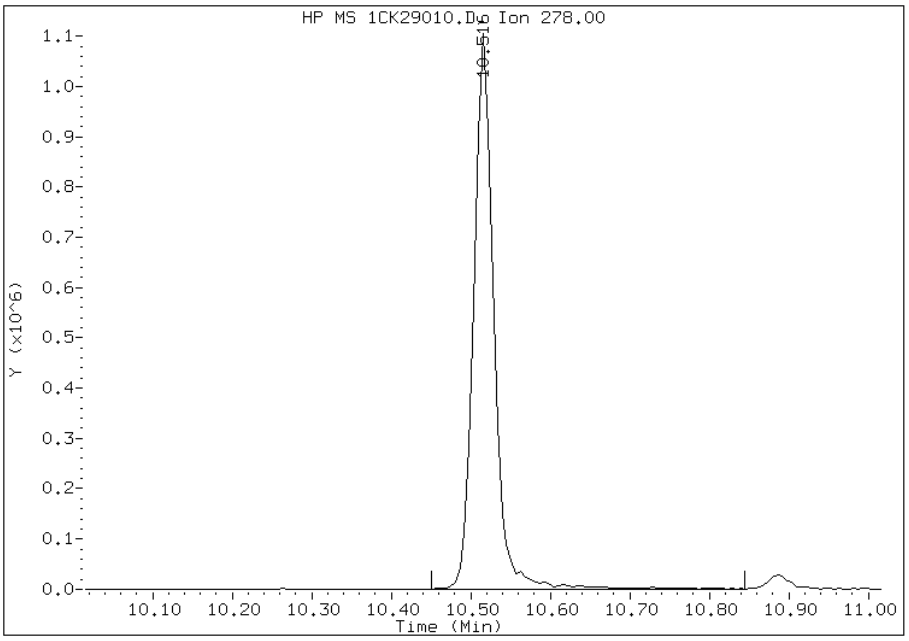

Manual Integration Results

RT: 10.52

Response: 1928582

Amount: 22

Conc: 22




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CK29010.D
Inj. Date and Time: 29-NOV-2012 13:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 11/29/2012

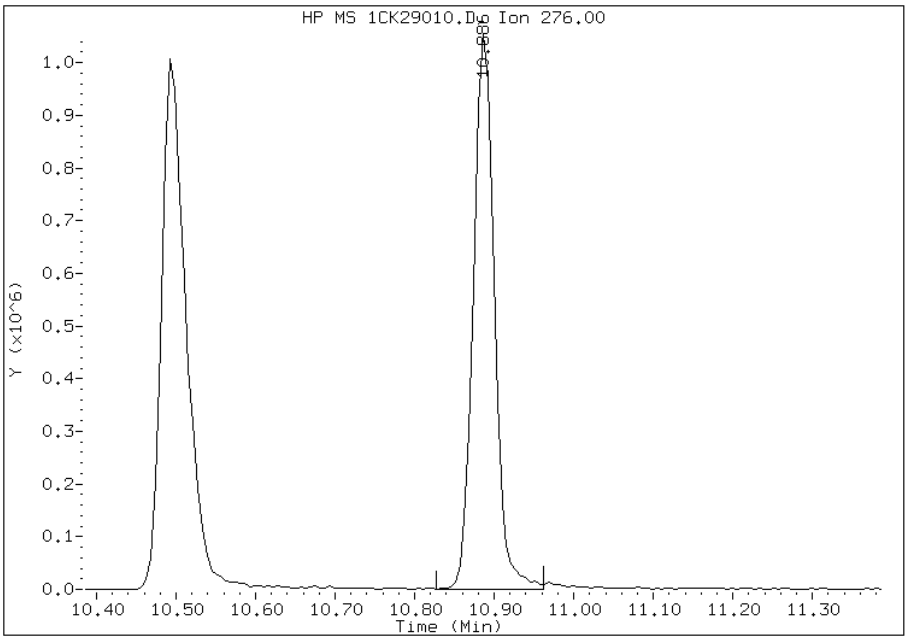
Processing Integration Results

RT: 10.89

Response: 1929528

Amount: 20

Conc: 661



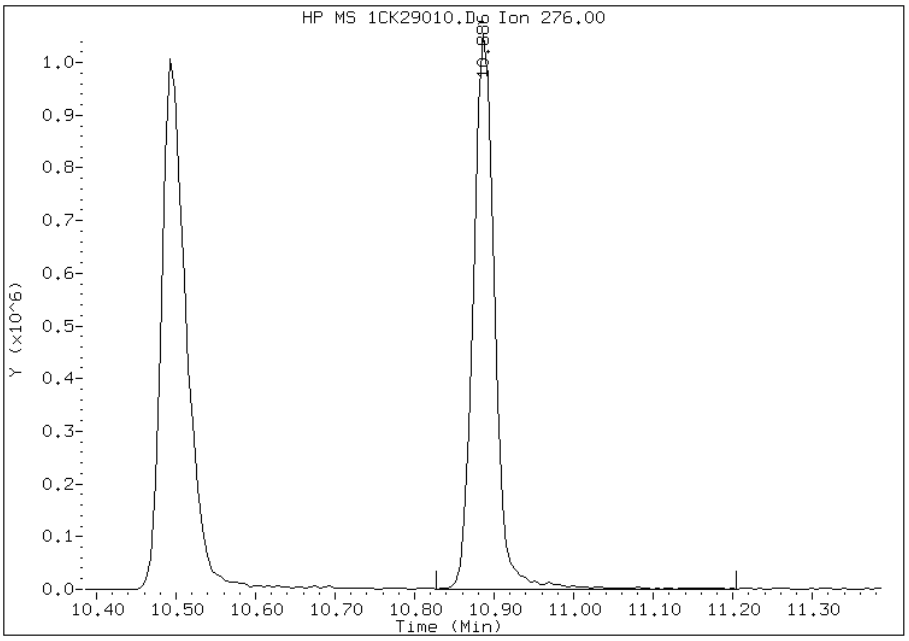

Manual Integration Results

RT: 10.89

Response: 1978606

Amount: 20

Conc: 20




Manually Integrated By: cantins
Modification Date: 29-Nov-2012 15:51
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: CCVIS 660-132652/3 Calibration Date: 12/18/2012 11:34

Instrument ID: BSMC5973 Calib Start Date: 11/29/2012 11:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 11/29/2012 13:06

Lab File ID: 1CL18003.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.086 | 1.038 | 0.0000 | 19100 | 20000 | -4.4 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6582 | 0.6962 | 0.0000 | 21200 | 20000 | 5.8 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6402 | 0.6475 | 0.0000 | 20200 | 20000 | 1.1 | 20.0 |
| Acenaphthylene | Ave | 1.578 | 1.623 | 0.0000 | 20600 | 20000 | 2.9 | 20.0 |
| Acenaphthene | Ave | 0.9791 | 0.9533 | 0.0000 | 19500 | 20000 | -2.6 | 20.0 |
| Fluorene | Ave | 1.266 | 1.271 | 0.0000 | 20100 | 20000 | 0.4 | 20.0 |
| Phenanthrene | Ave | 1.165 | 1.078 | 0.0000 | 18500 | 20000 | -7.5 | 20.0 |
| Anthracene | Ave | 1.077 | 1.104 | 0.0000 | 20500 | 20000 | 2.4 | 20.0 |
| Carbazole | Ave | 0.9728 | 0.996 | 0.0000 | 20500 | 20000 | 2.4 | 20.0 |
| Fluoranthene | Ave | 1.173 | 1.220 | 0.0000 | 20800 | 20000 | 4.0 | 20.0 |
| Pyrene | Ave | 1.099 | 1.235 | 0.0000 | 22500 | 20000 | 12.4 | 20.0 |
| Benzo[a]anthracene | Ave | 1.066 | 1.083 | 0.0000 | 20300 | 20000 | 1.6 | 20.0 |
| Chrysene | Ave | 1.145 | 1.131 | 0.0000 | 19800 | 20000 | -1.2 | 20.0 |
| Benzo[b]fluoranthene | Ave | 0.995 | 1.061 | 0.0000 | 21300 | 20000 | 6.5 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.063 | 1.085 | 0.0000 | 20400 | 20000 | 2.1 | 20.0 |
| Benzo[a]pyrene | Ave | 0.9387 | 0.9929 | 0.0000 | 21200 | 20000 | 5.8 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9067 | 0.8726 | 0.0000 | 19200 | 20000 | -3.8 | 20.0 |
| Dibenz(a,h)anthracene | Ave | 0.8975 | 0.7973 | 0.0000 | 17800 | 20000 | -11.2 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 0.9862 | 0.8554 | 0.0000 | 17300 | 20000 | -13.3 | 20.0 |
| o-Terphenyl | Ave | 0.5681 | 0.6069 | 0.0000 | 21400 | 20000 | 6.8 | 20.0 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\1CL18003.D
Lab Smp Id: CCVIS-1473024
Inj Date : 18-DEC-2012 11:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\a-bFASTPAHi-m.m
Meth Date : 18-Dec-2012 11:48 cantins Quant Type: ISTD
Cal Date : 29-NOV-2012 13:06 Cal File: 1CK29009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT (ug/ml) | AMOUNTS ON-COL (ug/ml) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.904 | 3.904 | (1.000) | 4051366 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 4.992 | 4.992 | (1.000) | 3114610 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 5.957 | 5.957 | (1.000) | 6040843 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 6.204 | 6.204 | (1.041) | 1833126 | 20.0000 | 21.3673 |
| * 18 Chrysene-d12 | 240 | 7.915 | 7.915 | (1.000) | 6466247 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 9.186 | 9.186 | (1.000) | 6376139 | 40.0000 | |
| 2 Naphthalene | 128 | 3.916 | 3.916 | (1.003) | 2102900 | 20.0000 | 19.1241 |
| 3 2-Methylnaphthalene | 142 | 4.339 | 4.339 | (1.111) | 1410185 | 20.0000 | 21.1517 |
| 4 1-Methylnaphthalene | 142 | 4.404 | 4.404 | (1.128) | 1311570 | 20.0000 | 20.2262 |
| 5 Acenaphthylene | 152 | 4.904 | 4.904 | (0.982) | 2528119 | 20.0000 | 20.5783 |
| 7 Acenaphthene | 154 | 5.010 | 5.010 | (1.004) | 1484537 | 20.0000 | 19.4727 |
| 9 Fluorene | 166 | 5.333 | 5.333 | (1.068) | 1979761 | 20.0000 | 20.0855 |
| 11 Phenanthrene | 178 | 5.968 | 5.968 | (1.002) | 3255230 | 20.0000 | 18.4969 |
| 12 Anthracene | 178 | 6.004 | 6.004 | (1.008) | 3333046 | 20.0000 | 20.4846 |
| 13 Carbazole | 167 | 6.115 | 6.115 | (1.027) | 3009306 | 20.0000 | 20.4827 |
| 15 Fluoranthene | 202 | 6.815 | 6.815 | (1.144) | 3685305 | 20.0000 | 20.8071 |
| 16 Pyrene | 202 | 6.986 | 6.986 | (0.883) | 3992043 | 20.0000 | 22.4706 |
| 17 Benzo(a)anthracene | 228 | 7.904 | 7.904 | (0.999) | 3501081 | 20.0000 | 20.3188 |
| 19 Chrysene | 228 | 7.933 | 7.933 | (1.002) | 3657651 | 20.0000 | 19.7583 |
| 20 Benzo(b)fluoranthene | 252 | 8.803 | 8.803 | (0.958) | 3381199 | 20.0000 | 21.3084 |
| 21 Benzo(k)fluoranthene | 252 | 8.827 | 8.827 | (0.961) | 3458225 | 20.0000 | 20.4148 |
| 22 Benzo(a)pyrene | 252 | 9.121 | 9.121 | (0.993) | 3165513 | 20.0000 | 21.1546 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 10.468 | 10.468 | (1.140) | 2781950 | 20.0000 | 19.2489(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 10.492 | 10.492 | (1.142) | 2541800 | 20.0000 | 17.7668 |
| 26 Benzo(g,h,i)perylene | 276 | 10.862 | 10.862 | (1.182) | 2727010 | 20.0000 | 17.3466 |

QC Flag Legend

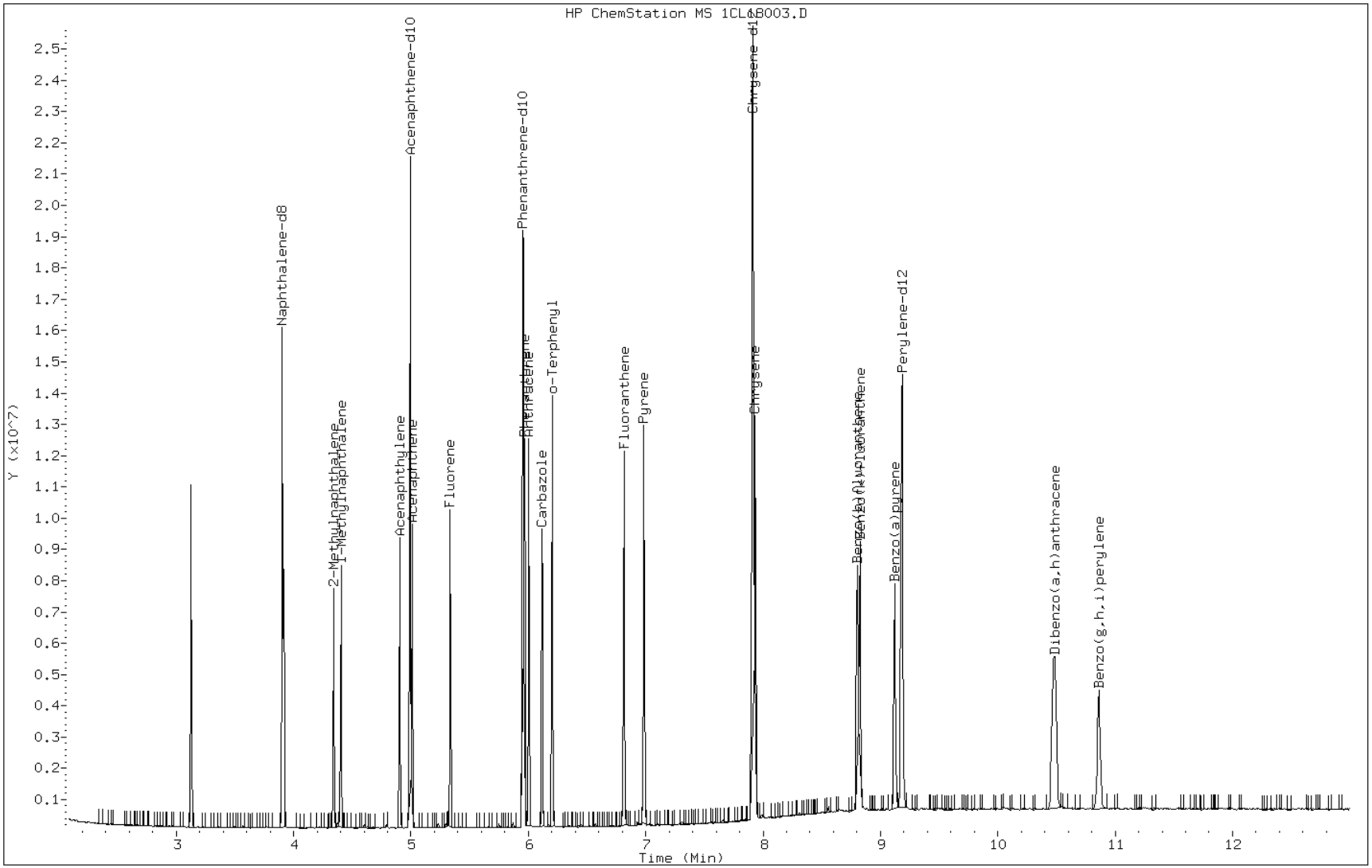
M - Compound response manually integrated.

Data File: 1CL18003.D

Date: 18-DEC-2012 11:34

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1473024 Operator: SCC



Manual Integration Report

Data File: 1CL18003.D
Inj. Date and Time: 18-DEC-2012 11:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/18/2012

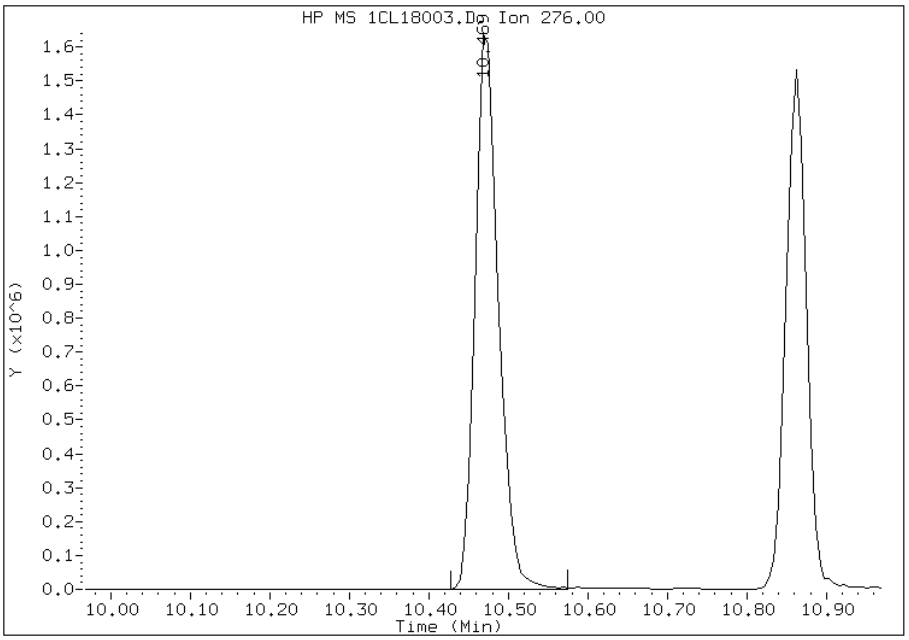
Processing Integration Results

RT: 10.47

Response: 3325530

Amount: 23

Conc: 23



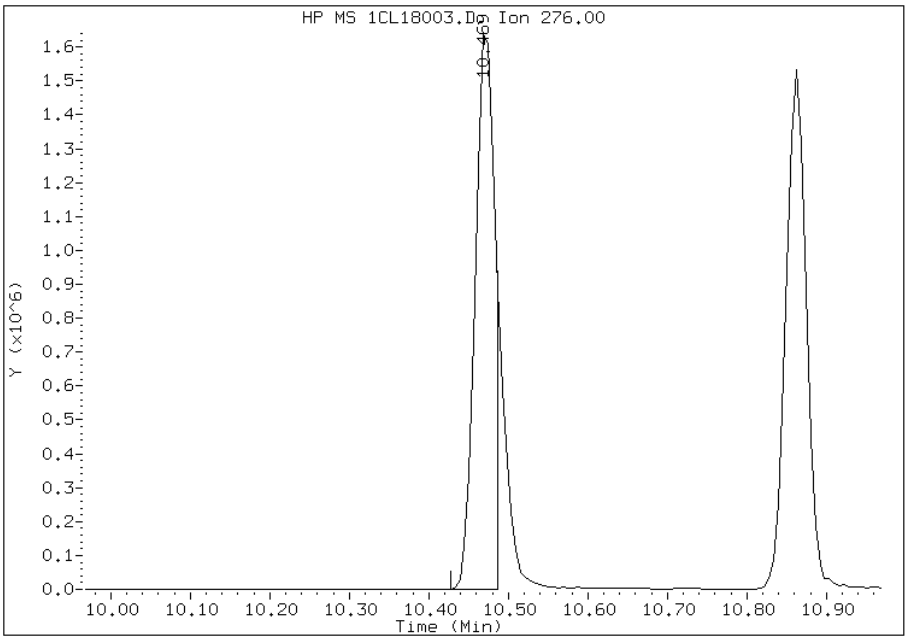

Manual Integration Results

RT: 10.47

Response: 2781950

Amount: 19

Conc: 19




Manually Integrated By: cantins
Modification Date: 18-Dec-2012 11:49
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: ICV 660-132234/10 Calibration Date: 12/06/2012 14:37

Instrument ID: BSMD5973 Calib Start Date: 12/06/2012 11:59

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 12/06/2012 14:14

Lab File ID: 1DL06010.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.039 | 1.008 | 0.0000 | 19400 | 20000 | -3.0 | 35.0 |
| 2-Methylnaphthalene | Ave | 0.6706 | 0.6605 | 0.0000 | 19700 | 20000 | -1.5 | 35.0 |
| 1-Methylnaphthalene | Ave | 0.6358 | 0.6250 | 0.0000 | 19700 | 20000 | -1.7 | 35.0 |
| Acenaphthylene | Ave | 1.747 | 1.678 | 0.0000 | 19200 | 20000 | -4.0 | 35.0 |
| Acenaphthene | Ave | 1.058 | 1.007 | 0.0000 | 19000 | 20000 | -4.8 | 35.0 |
| Fluorene | Ave | 1.248 | 1.217 | 0.0000 | 19500 | 20000 | -2.5 | 35.0 |
| Phenanthrene | Ave | 1.145 | 1.025 | 0.0000 | 17900 | 20000 | -10.5 | 35.0 |
| Anthracene | Ave | 1.147 | 1.065 | 0.0000 | 18600 | 20000 | -7.2 | 35.0 |
| Carbazole | Ave | 1.016 | 0.8418 | 0.0000 | 16600 | 20000 | -17.1 | 35.0 |
| Fluoranthene | Ave | 1.157 | 1.125 | 0.0000 | 19500 | 20000 | -2.7 | 35.0 |
| Pyrene | Ave | 1.276 | 1.170 | 0.0000 | 18300 | 20000 | -8.3 | 35.0 |
| Benzo[a]anthracene | LinF | 1.176 | 1.102 | 0.0000 | 20400 | 20000 | 2.1 | 35.0 |
| Chrysene | Ave | 1.133 | 1.026 | 0.0000 | 18100 | 20000 | -9.4 | 35.0 |
| Benzo[b]fluoranthene | Ave | 0.9818 | 0.997 | 0.0000 | 20300 | 20000 | 1.5 | 35.0 |
| Benzo[k]fluoranthene | Ave | 1.088 | 1.053 | 0.0000 | 19400 | 20000 | -3.2 | 35.0 |
| Benzo[a]pyrene | Ave | 0.9796 | 0.8929 | 0.0000 | 18200 | 20000 | -8.8 | 35.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9662 | 0.9622 | 0.0000 | 19900 | 20000 | -0.4 | 35.0 |
| Dibenz(a,h)anthracene | Ave | 0.9484 | 1.043 | 0.0000 | 22000 | 20000 | 10.0 | 35.0 |
| Benzo[g,h,i]perylene | Ave | 0.9947 | 0.998 | 0.0000 | 20100 | 20000 | 0.3 | 35.0 |
| o-Terphenyl | Ave | 0.6309 | 0.5568 | 0.0000 | 17700 | 20000 | -11.7 | 35.0 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06010.D
Lab Smp Id: ICV-1448440
Inj Date  : 06-DEC-2012 14:37
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : ICV-1448440
Misc Info :
Comment  :
Method  : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\dFASTPAHi.m
Meth Date : 07-Dec-2012 10:53 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 10  QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C  * D * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Vo | 1000.000 | Sample Volume |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | mL to L conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1= if no con |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.265 | 6.266 | (1.000) | 2862447 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.934 | 7.935 | (1.000) | 1711045 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.191 | 9.192 | (1.000) | 2836626 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.502 | 9.504 | (1.034) | 789705 | 17.6505 | 18 |
| * 17 Chrysene-d12 | 240 | 11.553 | 11.560 | (1.000) | 2720860 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.457 | 13.464 | (1.000) | 2822120 | 40.0000 | |
| 2 Naphthalene | 128 | 6.288 | 6.290 | (1.004) | 1442065 | 19.4020 | 19 |
| 3 2-Methylnaphthalene | 142 | 6.982 | 6.989 | (1.114) | 945303 | 19.6984 | 20 |
| 4 1-Methylnaphthalene | 142 | 7.076 | 7.077 | (1.129) | 894456 | 19.6603 | 20 |
| 5 Acenaphthylene | 152 | 7.804 | 7.806 | (0.984) | 1435561 | 19.2069 | 19 |
| 7 Acenaphthene | 154 | 7.963 | 7.964 | (1.004) | 861933 | 19.0369 | 19 |
| 8 Fluorene | 166 | 8.404 | 8.404 | (1.059) | 1040865 | 19.5039 | 20 |
| 10 Phenanthrene | 178 | 9.209 | 9.216 | (1.002) | 1453621 | 17.9095 | 18 |
| 11 Anthracene | 178 | 9.250 | 9.257 | (1.006) | 1511052 | 18.5699 | 18 |
| 12 Carbazole | 167 | 9.397 | 9.386 | (1.022) | 1193944 | 16.5739 | 16(M) |
| 14 Fluoranthene | 202 | 10.190 | 10.197 | (1.109) | 1595712 | 19.4528 | 19 |
| 15 Pyrene | 202 | 10.378 | 10.385 | (0.898) | 1591950 | 18.3453 | 18 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL ( ug/l) |
|---|---|---|---|---|---|---|---|
| 16 Benzo(a)anthracene | 228 | 11.535 | 11.542 | (0.998) | 1499228 | 20.4170 | 20 |
| 18 Chrysene | 228 | 11.582 | 11.589 | (1.003) | 1396243 | 18.1135 | 18 |
| 19 Benzo(b)fluoranthene | 252 | 12.892 | 12.905 | (0.958) | 1406737 | 20.3089 | 20 |
| 20 Benzo(k)fluoranthene | 252 | 12.934 | 12.952 | (0.961) | 1486370 | 19.3674 | 19 |
| 21 Benzo(a)pyrene | 252 | 13.357 | 13.375 | (0.993) | 1259941 | 18.2301 | 18 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.102 | 15.132 | (1.122) | 1357757 | 19.9182 | 20(H) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.143 | 15.179 | (1.125) | 1472083 | 22.0004 | 22 |
| 25 Benzo(g,h,i)perylene | 276 | 15.583 | 15.620 | (1.158) | 1407566 | 20.0576 | 20 |

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DL06010.D

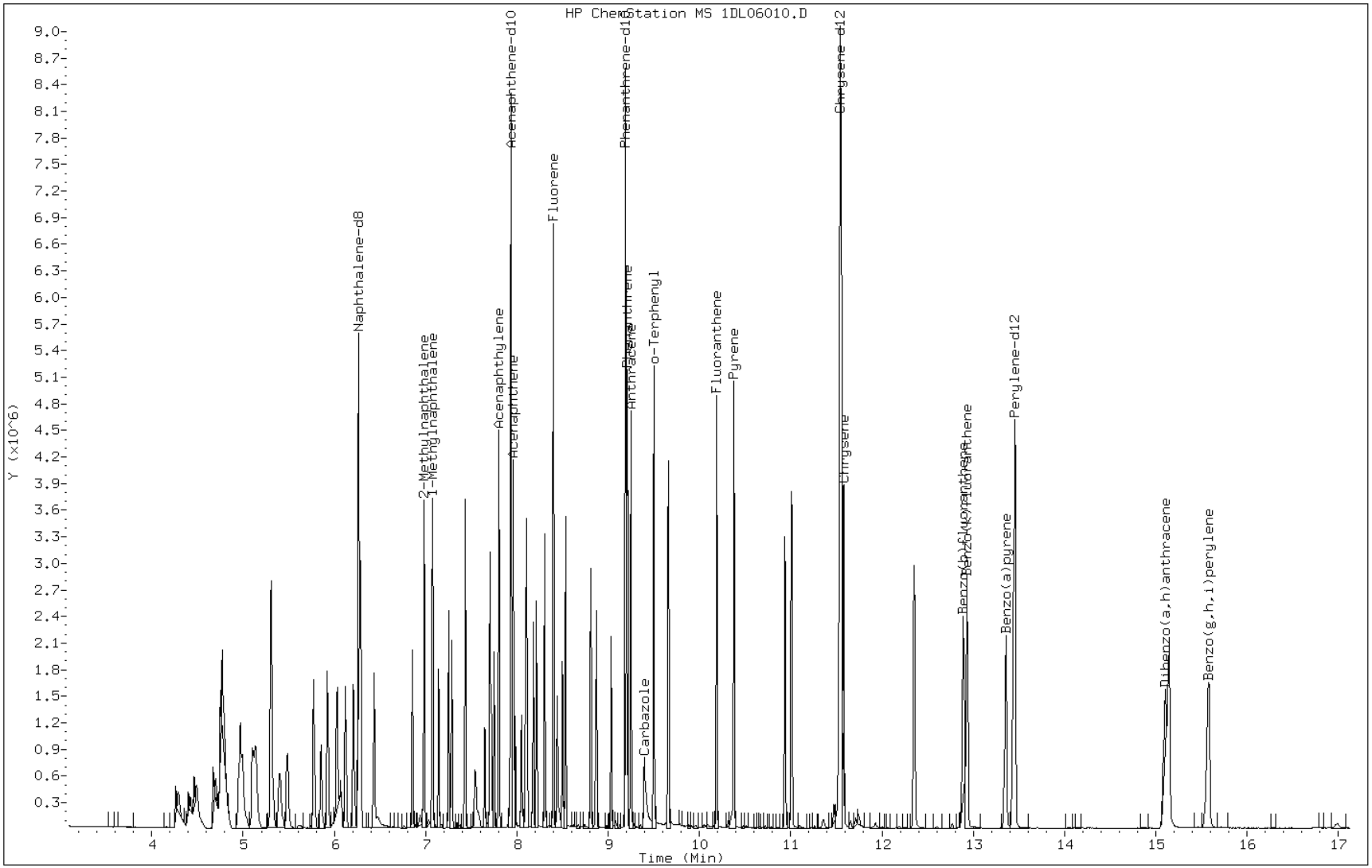
Date: 06-DEC-2012 14:37

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1DL06010.D
Inj. Date and Time: 06-DEC-2012 14:37
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 12/07/2012

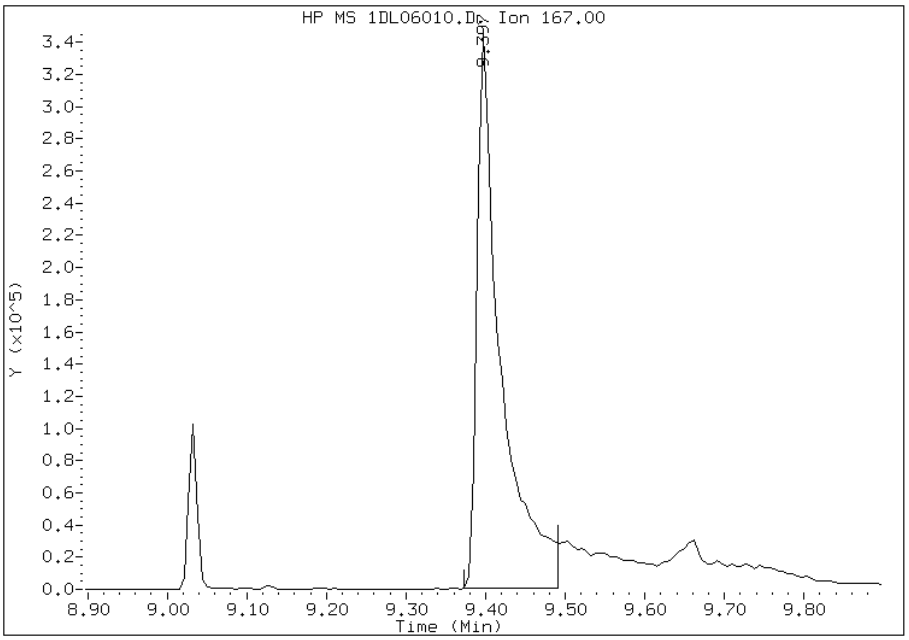
Processing Integration Results

RT: 9.40

Response: 717364

Amount: 10

Conc: 10



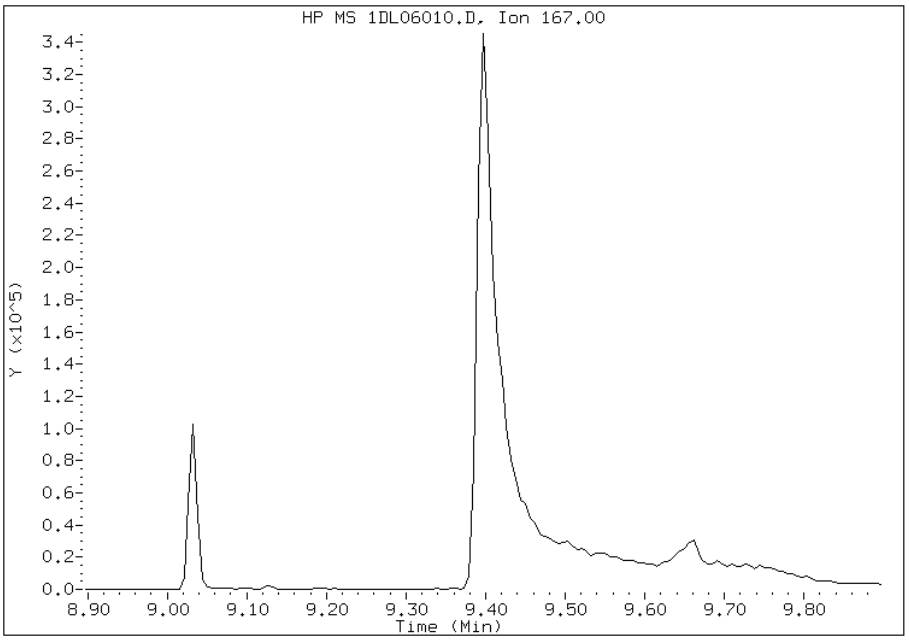

Manual Integration Results

RT: 9.40

Response: 1193944

Amount: 17

Conc: 17




Manually Integrated By: cantins
Modification Date: 07-Dec-2012 10:55
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: CCVIS 660-132553/3 Calibration Date: 12/16/2012 09:42

Instrument ID: BSMD5973 Calib Start Date: 12/06/2012 11:59

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 12/06/2012 14:14

Lab File ID: 1DL16003.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.039 | 1.003 | 0.0000 | 19300 | 20000 | -3.4 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6706 | 0.6602 | 0.0000 | 19700 | 20000 | -1.5 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6358 | 0.6230 | 0.0000 | 19600 | 20000 | -2.0 | 20.0 |
| Acenaphthylene | Ave | 1.747 | 1.726 | 0.0000 | 19800 | 20000 | -1.2 | 20.0 |
| Acenaphthene | Ave | 1.058 | 1.017 | 0.0000 | 19200 | 20000 | -3.9 | 20.0 |
| Fluorene | Ave | 1.248 | 1.220 | 0.0000 | 19600 | 20000 | -2.2 | 20.0 |
| Phenanthrene | Ave | 1.145 | 1.069 | 0.0000 | 18700 | 20000 | -6.6 | 20.0 |
| Anthracene | Ave | 1.147 | 1.096 | 0.0000 | 19100 | 20000 | -4.5 | 20.0 |
| Carbazole | Ave | 1.016 | 0.9553 | 0.0000 | 18800 | 20000 | -6.0 | 20.0 |
| Fluoranthene | Ave | 1.157 | 1.128 | 0.0000 | 19500 | 20000 | -2.4 | 20.0 |
| Pyrene | Ave | 1.276 | 1.243 | 0.0000 | 19500 | 20000 | -2.6 | 20.0 |
| Benzo[a]anthracene | LinF | 1.176 | 1.088 | 0.0000 | 20200 | 20000 | 0.8 | 20.0 |
| Chrysene | Ave | 1.133 | 1.075 | 0.0000 | 19000 | 20000 | -5.2 | 20.0 |
| Benzo[b]fluoranthene | Ave | 0.9818 | 1.006 | 0.0000 | 20500 | 20000 | 2.4 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.088 | 1.077 | 0.0000 | 19800 | 20000 | -1.0 | 20.0 |
| Benzo[a]pyrene | Ave | 0.9796 | 1.018 | 0.0000 | 20800 | 20000 | 3.9 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9662 | 1.022 | 0.0000 | 21200 | 20000 | 5.8 | 20.0 |
| Dibenz(a,h)anthracene | Ave | 0.9484 | 0.9674 | 0.0000 | 20400 | 20000 | 2.0 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 0.9947 | 0.998 | 0.0000 | 20100 | 20000 | 0.4 | 20.0 |
| o-Terphenyl | Ave | 0.6309 | 0.6189 | 0.0000 | 19600 | 20000 | -1.9 | 20.0 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16003.D
Lab Smp Id: CCVIS-1473024
Inj Date : 16-DEC-2012 09:42
Operator : SCC  Inst ID: BSMSD.i
Smp Info : CCVIS-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 10:04 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 3  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.265 | 6.265 | (1.000) | 3809616 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.934 | 7.934 | (1.000) | 2247283 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.191 | 9.191 | (1.000) | 3709449 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.503 | 9.503 | (1.034) | 1147804 | 20.0000 | 20 |
| * 17 Chrysene-d12 | 240 | 11.553 | 11.553 | (1.000) | 3603113 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.463 | 13.463 | (1.000) | 3723937 | 40.0000 | |
| 2 Naphthalene | 128 | 6.283 | 6.283 | (1.003) | 1911368 | 20.0000 | 19 |
| 3 2-Methylnaphthalene | 142 | 6.982 | 6.982 | (1.114) | 1257588 | 20.0000 | 20 |
| 4 1-Methylnaphthalene | 142 | 7.076 | 7.076 | (1.129) | 1186773 | 20.0000 | 20 |
| 5 Acenaphthylene | 152 | 7.805 | 7.805 | (0.984) | 1939825 | 20.0000 | 20 |
| 7 Acenaphthene | 154 | 7.958 | 7.958 | (1.003) | 1143179 | 20.0000 | 19 |
| 8 Fluorene | 166 | 8.398 | 8.398 | (1.058) | 1370312 | 20.0000 | 20 |
| 10 Phenanthrene | 178 | 9.209 | 9.209 | (1.002) | 1982071 | 20.0000 | 19 |
| 11 Anthracene | 178 | 9.250 | 9.250 | (1.006) | 2033201 | 20.0000 | 19 |
| 12 Carbazole | 167 | 9.379 | 9.379 | (1.020) | 1771741 | 20.0000 | 19 |
| 14 Fluoranthene | 202 | 10.190 | 10.190 | (1.109) | 2092862 | 20.0000 | 20 |
| 15 Pyrene | 202 | 10.378 | 10.378 | (0.898) | 2239627 | 20.0000 | 19 |
| 16 Benzo(a)anthracene | 228 | 11.530 | 11.530 | (0.998) | 1959886 | 20.0000 | 20 |
| 18 Chrysene | 228 | 11.583 | 11.583 | (1.003) | 1936177 | 20.0000 | 19 |
| 19 Benzo(b)fluoranthene | 252 | 12.893 | 12.893 | (0.958) | 1872657 | 20.0000 | 20 |
| 20 Benzo(k)fluoranthene | 252 | 12.940 | 12.940 | (0.961) | 2005056 | 20.0000 | 20 |
| 21 Benzo(a)pyrene | 252 | 13.363 | 13.363 | (0.993) | 1894592 | 20.0000 | 21 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.114 | 15.114 | (1.123) | 1902481 | 20.0000 | 21 |
| 24 Dibenzo(a,h)anthracene | 278 | 15.149 | 15.149 | (1.125) | 1801212 | 20.0000 | 20 |
| 25 Benzo(g,h,i)perylene | 276 | 15.590 | 15.590 | (1.158) | 1858938 | 20.0000 | 20 |

Data File: 1DL16003.D

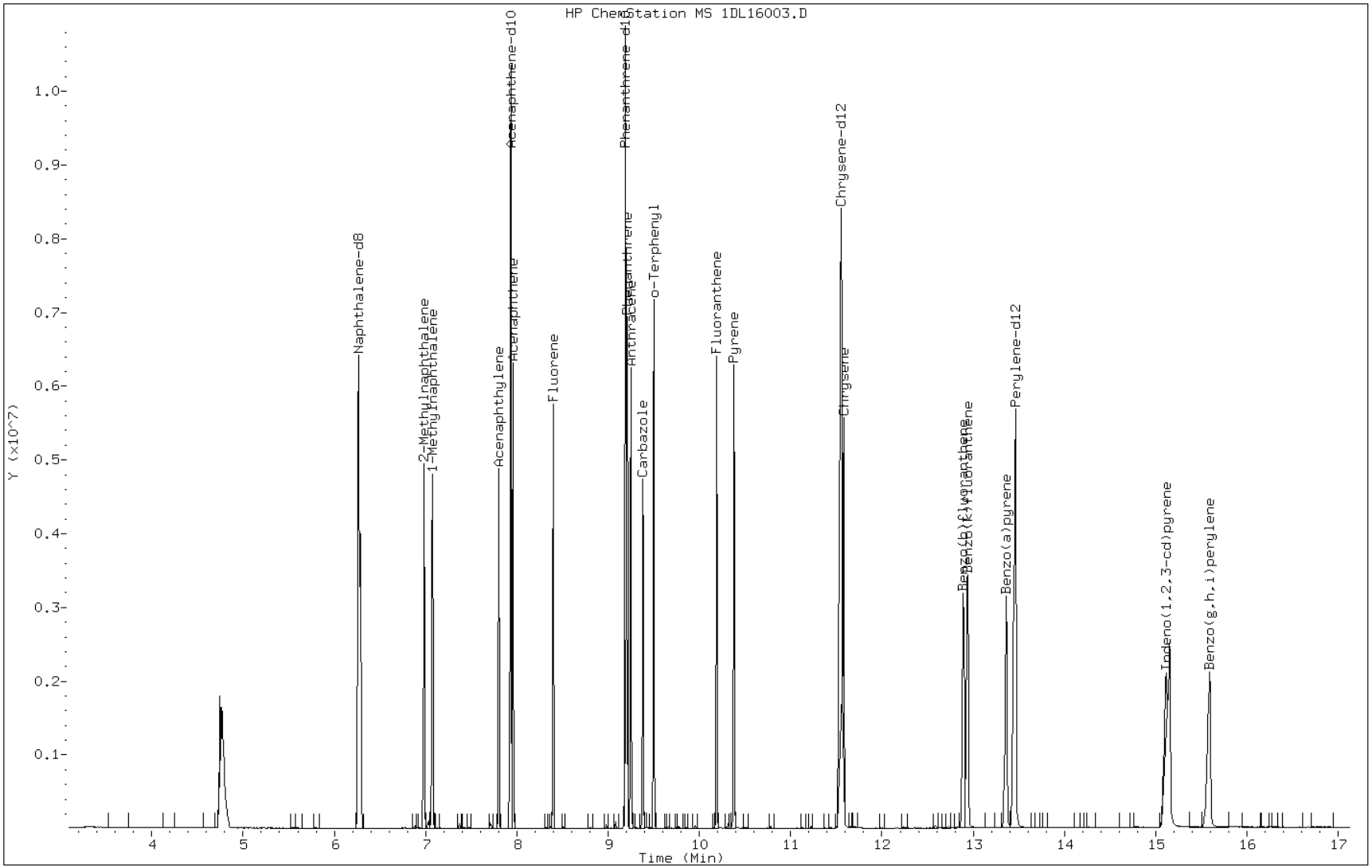
Date: 16-DEC-2012 09:42

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1473024

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Lab Sample ID: CCVIS 660-132707/2 Calibration Date: 12/19/2012 10:48

Instrument ID: BSMD5973 Calib Start Date: 12/06/2012 11:59

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 12/06/2012 14:14

Lab File ID: 1DL19003.D Conc. Units: ug/Kg

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.039 | 1.009 | 0.0000 | 19400 | 20000 | -2.9 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6706 | 0.6568 | 0.0000 | 19600 | 20000 | -2.1 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6358 | 0.6257 | 0.0000 | 19700 | 20000 | -1.6 | 20.0 |
| Acenaphthylene | Ave | 1.747 | 1.724 | 0.0000 | 19700 | 20000 | -1.3 | 20.0 |
| Acenaphthene | Ave | 1.058 | 1.024 | 0.0000 | 19300 | 20000 | -3.3 | 20.0 |
| Fluorene | Ave | 1.248 | 1.219 | 0.0000 | 19500 | 20000 | -2.3 | 20.0 |
| Phenanthrene | Ave | 1.145 | 1.082 | 0.0000 | 18900 | 20000 | -5.5 | 20.0 |
| Anthracene | Ave | 1.147 | 1.108 | 0.0000 | 19300 | 20000 | -3.5 | 20.0 |
| Carbazole | Ave | 1.016 | 0.9887 | 0.0000 | 19500 | 20000 | -2.7 | 20.0 |
| Fluoranthene | Ave | 1.157 | 1.135 | 0.0000 | 19600 | 20000 | -1.9 | 20.0 |
| Pyrene | Ave | 1.276 | 1.232 | 0.0000 | 19300 | 20000 | -3.5 | 20.0 |
| Benzo[a]anthracene | LinF | 1.176 | 1.073 | 0.0000 | 19900 | 20000 | -0.6 | 20.0 |
| Chrysene | Ave | 1.133 | 1.079 | 0.0000 | 19000 | 20000 | -4.8 | 20.0 |
| Benzo[b]fluoranthene | Ave | 0.9818 | 1.014 | 0.0000 | 20700 | 20000 | 3.3 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.088 | 1.033 | 0.0000 | 19000 | 20000 | -5.0 | 20.0 |
| Benzo[a]pyrene | Ave | 0.9796 | 1.019 | 0.0000 | 20800 | 20000 | 4.0 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.9662 | 1.062 | 0.0000 | 22000 | 20000 | 9.9 | 20.0 |
| Dibenz(a,h)anthracene | Ave | 0.9484 | 0.9706 | 0.0000 | 20500 | 20000 | 2.3 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 0.9947 | 1.001 | 0.0000 | 20100 | 20000 | 0.6 | 20.0 |
| o-Terphenyl | Ave | 0.6309 | 0.6140 | 0.0000 | 19500 | 20000 | -2.7 | 20.0 |

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Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121912.b\1DL19003.D
Lab Smp Id: CCVIS-1473024
Inj Date : 19-DEC-2012 10:48
Operator : SCC  Inst ID: BSMSD.i
Smp Info : CCVIS-1473024
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121912.b\dFASTPAHi.m
Meth Date : 19-Dec-2012 11:08 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 3  Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS CAL-AMT ( ug/l) | AMOUNTS ON-COL ( ug/l) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.261 | 6.261 | (1.000) | 3450659 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.930 | 7.930 | (1.000) | 2041752 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.193 | 9.193 | (1.000) | 3352549 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.499 | 9.499 | (1.033) | 1029243 | 20.0000 | 19 |
| * 17 Chrysene-d12 | 240 | 11.555 | 11.555 | (1.000) | 3335935 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.470 | 13.470 | (1.000) | 3510601 | 40.0000 | |
| 2 Naphthalene | 128 | 6.285 | 6.285 | (1.004) | 1740705 | 20.0000 | 19 |
| 3 2-Methylnaphthalene | 142 | 6.984 | 6.984 | (1.115) | 1133152 | 20.0000 | 20 |
| 4 1-Methylnaphthalene | 142 | 7.072 | 7.072 | (1.129) | 1079460 | 20.0000 | 20 |
| 5 Acenaphthylene | 152 | 7.801 | 7.801 | (0.984) | 1759956 | 20.0000 | 20 |
| 7 Acenaphthene | 154 | 7.959 | 7.959 | (1.004) | 1044941 | 20.0000 | 19 |
| 8 Fluorene | 166 | 8.400 | 8.400 | (1.059) | 1244874 | 20.0000 | 20 |
| 10 Phenanthrene | 178 | 9.211 | 9.211 | (1.002) | 1813334 | 20.0000 | 19 |
| 11 Anthracene | 178 | 9.252 | 9.252 | (1.006) | 1856943 | 20.0000 | 19 |
| 12 Carbazole | 167 | 9.381 | 9.381 | (1.020) | 1657245 | 20.0000 | 19 |
| 14 Fluoranthene | 202 | 10.192 | 10.192 | (1.109) | 1902765 | 20.0000 | 20 |
| 15 Pyrene | 202 | 10.380 | 10.380 | (0.898) | 2054419 | 20.0000 | 19 |
| 16 Benzo(a)anthracene | 228 | 11.537 | 11.537 | (0.998) | 1790157 | 20.0000 | 20 |
| 18 Chrysene | 228 | 11.584 | 11.584 | (1.003) | 1800111 | 20.0000 | 19 |
| 19 Benzo(b)fluoranthene | 252 | 12.900 | 12.900 | (0.958) | 1779465 | 20.0000 | 21 |
| 20 Benzo(k)fluoranthene | 252 | 12.942 | 12.942 | (0.961) | 1814054 | 20.0000 | 19 |
| 21 Benzo(a)pyrene | 252 | 13.370 | 13.370 | (0.993) | 1787900 | 20.0000 | 21 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.121 | 15.121 | (1.123) | 1864302 | 20.0000 | 22(H) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.162 | 15.162 | (1.126) | 1703626 | 20.0000 | 20 |
| 25 Benzo(g,h,i)perylene | 276 | 15.603 | 15.603 | (1.158) | 1756386 | 20.0000 | 20 |

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DL19003.D

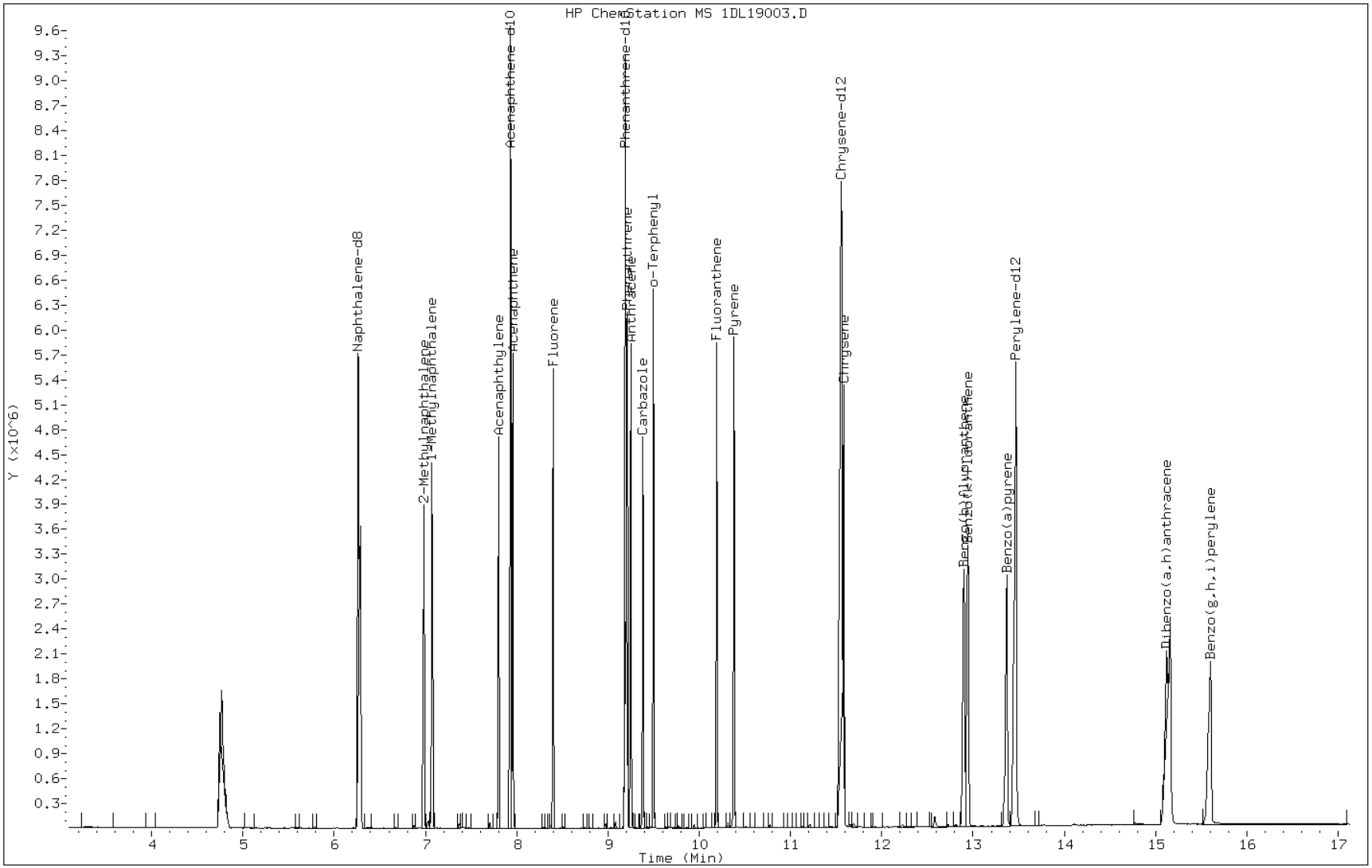
Date: 19-DEC-2012 10:48

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1473024

Operator: SCC



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Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26002.D
Lab Smp Id: DFTPP  Client Smp ID: DFTPP
Inj Date : 26-NOV-2012 13:33
Operator : SCC  Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\a-dftpp442.m
Meth Date : 27-Sep-2012 17:02 cantins  Quant Type: ESTD
Cal Date :  Cal File:
Als bottle: 2  QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version: 4.14  Sample Matrix: None
Processing Host: TAM1000

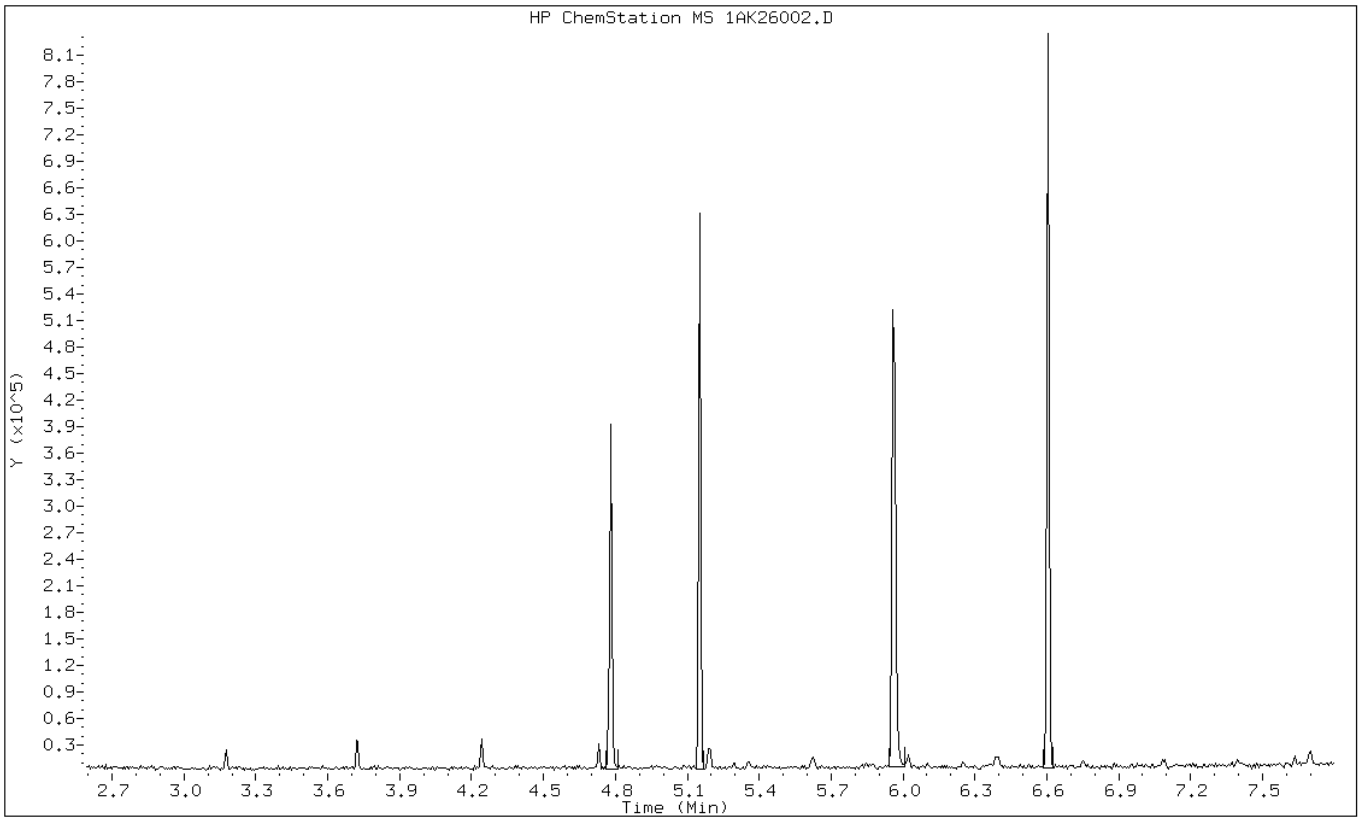
| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 0.000 | 4.353 | -4.353 | 442 | 54500 | | | 50.00- 0.00 | 100.00 |
| 0.000 | 4.353 | -4.353 | 51 | 12289 | | | 10.00- 80.00 | 22.55 |
| 0.000 | 4.353 | -4.353 | 68 | 254 | | | 0.00- 2.00 | 1.40 |
| 0.000 | 4.353 | -4.353 | 69 | 18094 | | | 0.00- 0.00 | 33.20 |
| 0.000 | 4.353 | -4.353 | 70 | 327 | | | 0.00- 2.00 | 1.81 |
| 0.000 | 4.353 | -4.353 | 127 | 18300 | | | 10.00- 80.00 | 33.58 |
| 0.000 | 4.353 | -4.353 | 197 | 709 | | | 0.00- 2.00 | 1.71 |
| 0.000 | 4.353 | -4.353 | 198 | 41416 | | | 50.00- 0.00 | 75.99 |
| 0.000 | 4.353 | -4.353 | 199 | 3007 | | | 5.00- 9.00 | 7.26 |
| 0.000 | 4.353 | -4.353 | 275 | 13244 | | | 10.00- 60.00 | 24.30 |
| 0.000 | 4.353 | -4.353 | 365 | 2037 | | | 1.00- 0.00 | 3.74 |
| 0.000 | 4.353 | -4.353 | 441 | 6689 | | | 0.01- 99.99 | 68.20 |
| 0.000 | 4.353 | -4.353 | 443 | 9808 | | | 15.00- 24.00 | 18.00 |

Data File: 1AK26002.D

Date: 26-NOV-2012 13:33

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



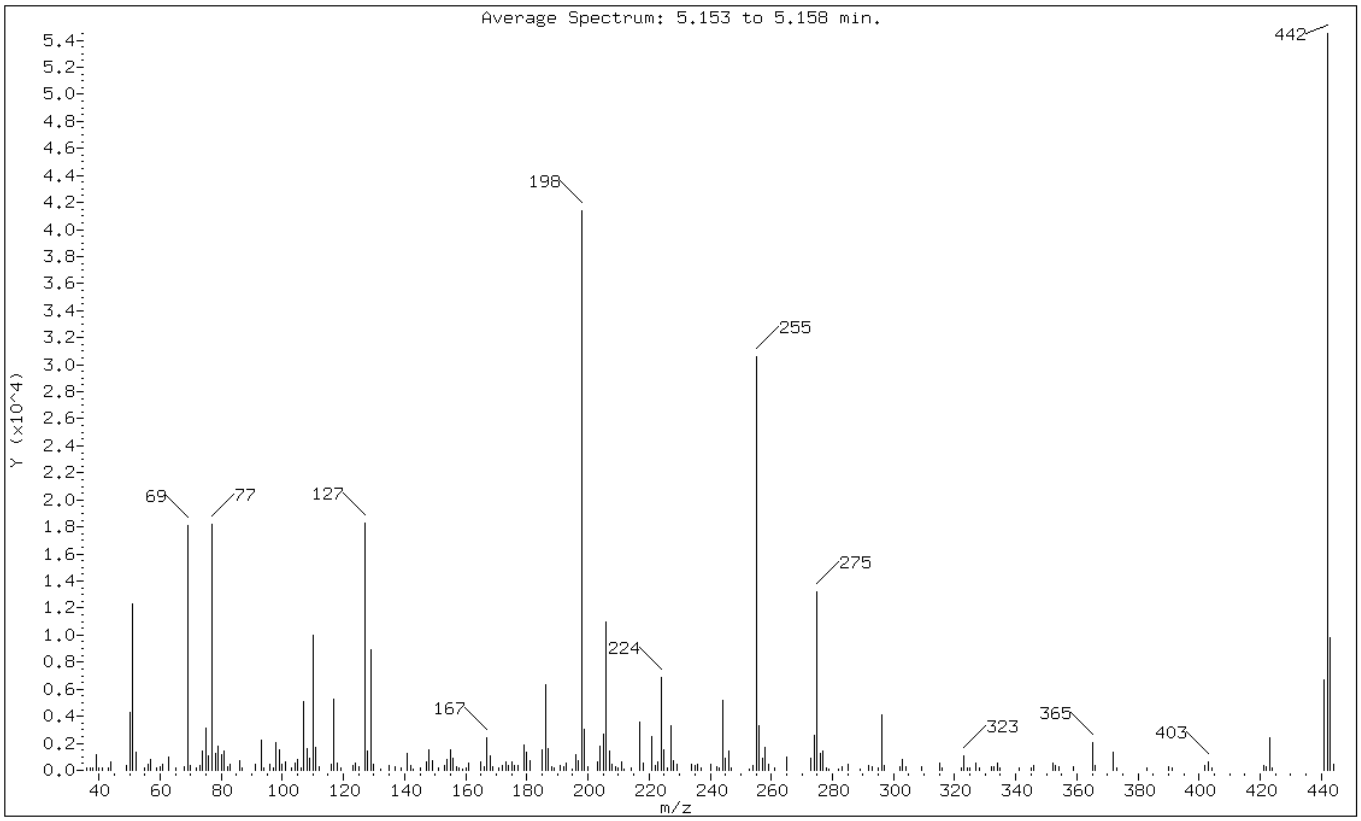
Data File: 1AK26002.D

Date: 26-NOV-2012 13:33

Client ID: DFTPP  Instrument: BSMA5973.i

Sample Info: DFTPP-1465456  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 442 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 442 | 22.55 |
| 68 | Less than 2.00% of mass 69 | 0.47 ( 1.40) |
| 69 | Mass 69 relative abundance | 33.20 |
| 70 | Less than 2.00% of mass 69 | 0.60 ( 1.81) |
| 127 | 10.00 - 80.00% of mass 442 | 33.58 |
| 197 | Less than 2.00% of mass 198 | 1.30 ( 1.71) |
| 198 | Greater than 50.00% of mass 442 | 75.99 |
| 199 | 5.00 - 9.00% of mass 198 | 5.52 ( 7.26) |
| 275 | 10.00 - 60.00% of mass 442 | 24.30 |
| 365 | Greater than 1.00% of mass 442 | 3.74 |
| 441 | Present, but less than mass 443 | 12.27 |
| 443 | 15.00 - 24.00% of mass 442 | 18.00 |

Data File: 1AK26002.D

Date: 26-NOV-2012 13:33

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612_IC.b\1AK26002.D
Spectrum: Average Spectrum: 5.153 to 5.158 min.
Location of Maximum: 442.00
Number of points: 216

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 135 | 112.00 | 301 | 193.00 | 544 | 279.00 | 128 |
| 37.00 | 135 | 116.00 | 431 | 195.00 | 133 | 282.00 | 125 |
| 38.00 | 220 | 117.00 | 5233 | 196.00 | 1141 | 283.00 | 231 |
| 39.00 | 1174 | 118.00 | 518 | 197.00 | 709 | 285.00 | 452 |
| 40.00 | 194 | 119.00 | 141 | 198.00 | 41416 | 289.00 | 133 |
| 41.00 | 135 | 123.00 | 347 | 199.00 | 3007 | 292.00 | 315 |
| 43.00 | 144 | 124.00 | 562 | 200.00 | 286 | 293.00 | 285 |
| 44.00 | 610 | 125.00 | 278 | 203.00 | 585 | 295.00 | 219 |
| 49.00 | 378 | 127.00 | 18296 | 204.00 | 1799 | 296.00 | 4104 |
| 50.00 | 4303 | 128.00 | 1452 | 205.00 | 2674 | 297.00 | 354 |
| 51.00 | 12289 | 129.00 | 8940 | 206.00 | 10978 | 302.00 | 229 |
| 52.00 | 1321 | 130.00 | 421 | 207.00 | 1447 | 303.00 | 829 |
| 55.00 | 186 | 132.00 | 133 | 208.00 | 457 | 304.00 | 223 |
| 56.00 | 474 | 135.00 | 347 | 209.00 | 226 | 309.00 | 232 |
| 57.00 | 766 | 137.00 | 253 | 210.00 | 180 | 315.00 | 498 |
| 59.00 | 161 | 139.00 | 156 | 211.00 | 622 | 316.00 | 144 |
| 60.00 | 254 | 141.00 | 1274 | 212.00 | 129 | 322.00 | 144 |
| 61.00 | 424 | 142.00 | 367 | 214.00 | 166 | 323.00 | 1080 |
| 63.00 | 962 | 143.00 | 133 | 217.00 | 3529 | 324.00 | 156 |
| 65.00 | 149 | 145.00 | 162 | 218.00 | 530 | 325.00 | 151 |
| 68.00 | 254 | 147.00 | 604 | 221.00 | 2468 | 327.00 | 496 |
| 69.00 | 18088 | 148.00 | 1559 | 222.00 | 354 | 328.00 | 172 |
| 70.00 | 327 | 149.00 | 747 | 223.00 | 634 | 332.00 | 224 |
| 72.00 | 191 | 151.00 | 163 | 224.00 | 6899 | 333.00 | 242 |
| 73.00 | 338 | 153.00 | 336 | 225.00 | 1530 | 334.00 | 572 |
| 74.00 | 1466 | 154.00 | 765 | 226.00 | 211 | 335.00 | 145 |
| 75.00 | 3085 | 155.00 | 1498 | 227.00 | 3342 | 341.00 | 204 |
| 76.00 | 1065 | 156.00 | 858 | 228.00 | 719 | 345.00 | 183 |
| 77.00 | 18232 | 157.00 | 284 | 229.00 | 480 | 346.00 | 352 |
| 78.00 | 1263 | 158.00 | 209 | 234.00 | 407 | 352.00 | 567 |
| 79.00 | 1773 | 159.00 | 131 | 235.00 | 377 | 353.00 | 316 |
| 80.00 | 1115 | 160.00 | 201 | 236.00 | 427 | 354.00 | 248 |
| 81.00 | 1422 | 161.00 | 492 | 237.00 | 145 | 359.00 | 290 |
| 82.00 | 237 | 165.00 | 646 | 240.00 | 426 | 365.00 | 2037 |
| 83.00 | 473 | 166.00 | 276 | 242.00 | 289 | 366.00 | 353 |
| 86.00 | 683 | 167.00 | 2393 | 243.00 | 135 | 372.00 | 1315 |
| 87.00 | 182 | 168.00 | 1073 | 244.00 | 5143 | 373.00 | 142 |
| 91.00 | 457 | 169.00 | 238 | 245.00 | 933 | 383.00 | 213 |
| 93.00 | 2226 | 171.00 | 179 | 246.00 | 1463 | 390.00 | 293 |
| 94.00 | 137 | 172.00 | 347 | 247.00 | 166 | 391.00 | 139 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 96.00 | 451 | 173.00 | 580 | 253.00 | 133 | 402.00 | 317 |
| 97.00 | 208 | 174.00 | 379 | 254.00 | 334 | 403.00 | 597 |
| 98.00 | 2027 | 175.00 | 660 | 255.00 | 30608 | 404.00 | 198 |
| 99.00 | 1518 | 176.00 | 379 | 256.00 | 3261 | 421.00 | 337 |
| 100.00 | 453 | 177.00 | 362 | 257.00 | 848 | 422.00 | 267 |
| 101.00 | 636 | 179.00 | 1890 | 258.00 | 1717 | 423.00 | 2404 |
| 103.00 | 139 | 180.00 | 1377 | 259.00 | 405 | 424.00 | 210 |
| 104.00 | 566 | 181.00 | 677 | 261.00 | 162 | 441.00 | 6689 |
| 105.00 | 769 | 185.00 | 1553 | 265.00 | 944 | 442.00 | 54496 |
| 106.00 | 178 | 186.00 | 6310 | 273.00 | 923 | 443.00 | 9808 |
| 107.00 | 5065 | 187.00 | 1590 | 274.00 | 2565 | 444.00 | 427 |
| 108.00 | 1609 | 188.00 | 264 | 275.00 | 13244 | | |
| 109.00 | 879 | 189.00 | 157 | 276.00 | 1255 | | |
| 110.00 | 10015 | 191.00 | 341 | 277.00 | 1469 | | |
| 111.00 | 1721 | 192.00 | 246 | 278.00 | 159 | | |

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Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\1AL13002.D
Lab Smp Id: DFTPP  Client Smp ID: DFTPP
Inj Date : 13-DEC-2012 11:07
Operator : SCC  Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\a-dftpp198.m
Meth Date : 28-Nov-2012 12:16 cantins  Quant Type: ESTD
Cal Date :  Cal File:
Als bottle: 2  QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version: 4.14  Sample Matrix: None
Processing Host: TAM1000

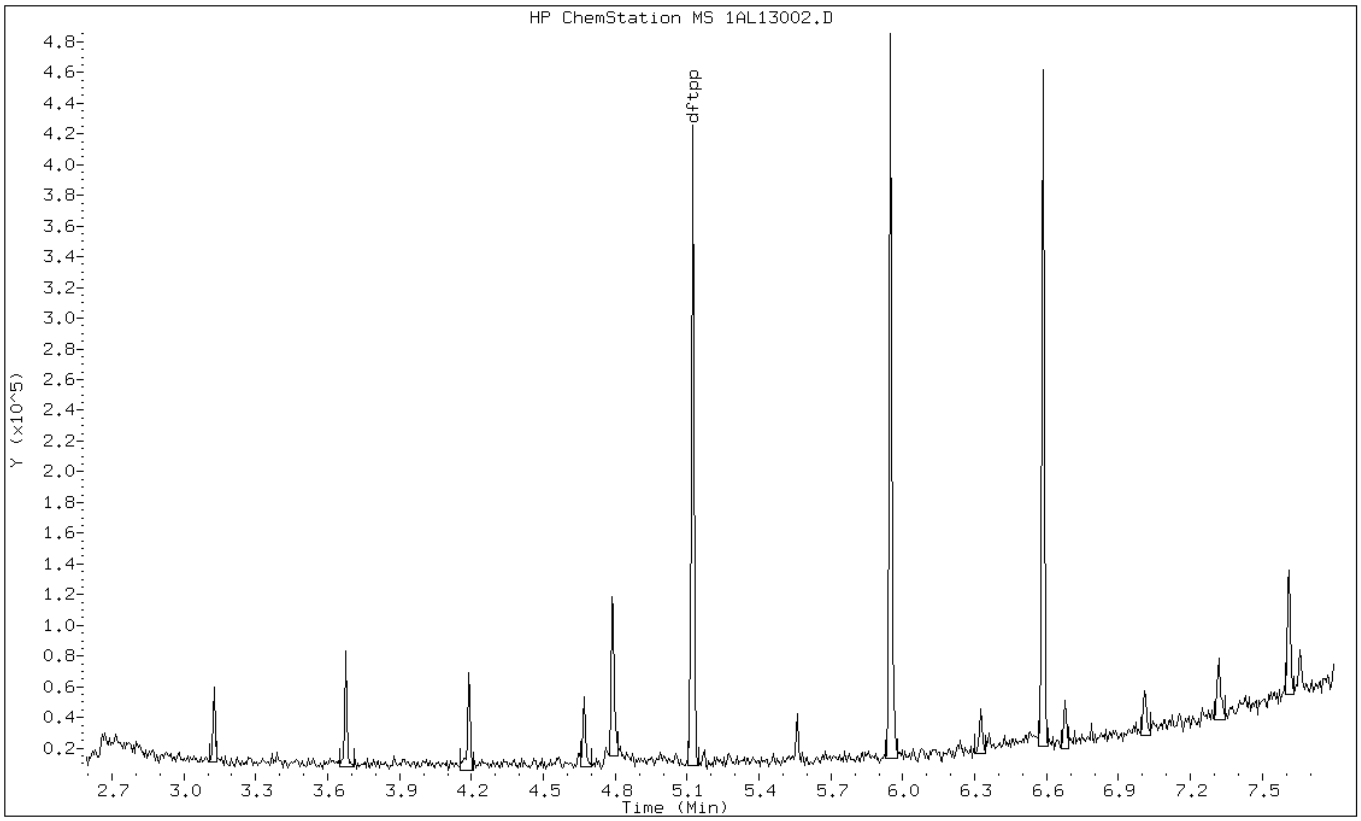
| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 5.121 | 5.150 | -0.029 | 198 | 25712 | | | 50.00- 0.00 | 66.32 |
| 5.121 | 5.150 | -0.029 | 51 | 5260 | | | 10.00- 80.00 | 20.46 |
| 5.121 | 5.150 | -0.029 | 68 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.121 | 5.150 | -0.029 | 69 | 8080 | | | 0.00- 0.00 | 31.43 |
| 5.121 | 5.150 | -0.029 | 70 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.121 | 5.150 | -0.029 | 127 | 8138 | | | 10.00- 80.00 | 31.65 |
| 5.121 | 5.150 | -0.029 | 197 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.121 | 5.150 | -0.029 | 442 | 38768 | | | 50.00- 0.00 | 150.78 |
| 5.121 | 5.150 | -0.029 | 199 | 1526 | | | 5.00- 9.00 | 5.93 |
| 5.121 | 5.150 | -0.029 | 275 | 8055 | | | 10.00- 60.00 | 31.33 |
| 5.121 | 5.150 | -0.029 | 365 | 1105 | | | 1.00- 0.00 | 4.30 |
| 5.121 | 5.150 | -0.029 | 441 | 6636 | | | 0.01- 99.99 | 76.43 |
| 5.121 | 5.150 | -0.029 | 443 | 8682 | | | 15.00- 24.00 | 22.39 |

Data File: 1AL13002.D

Date: 13-DEC-2012 11:07

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



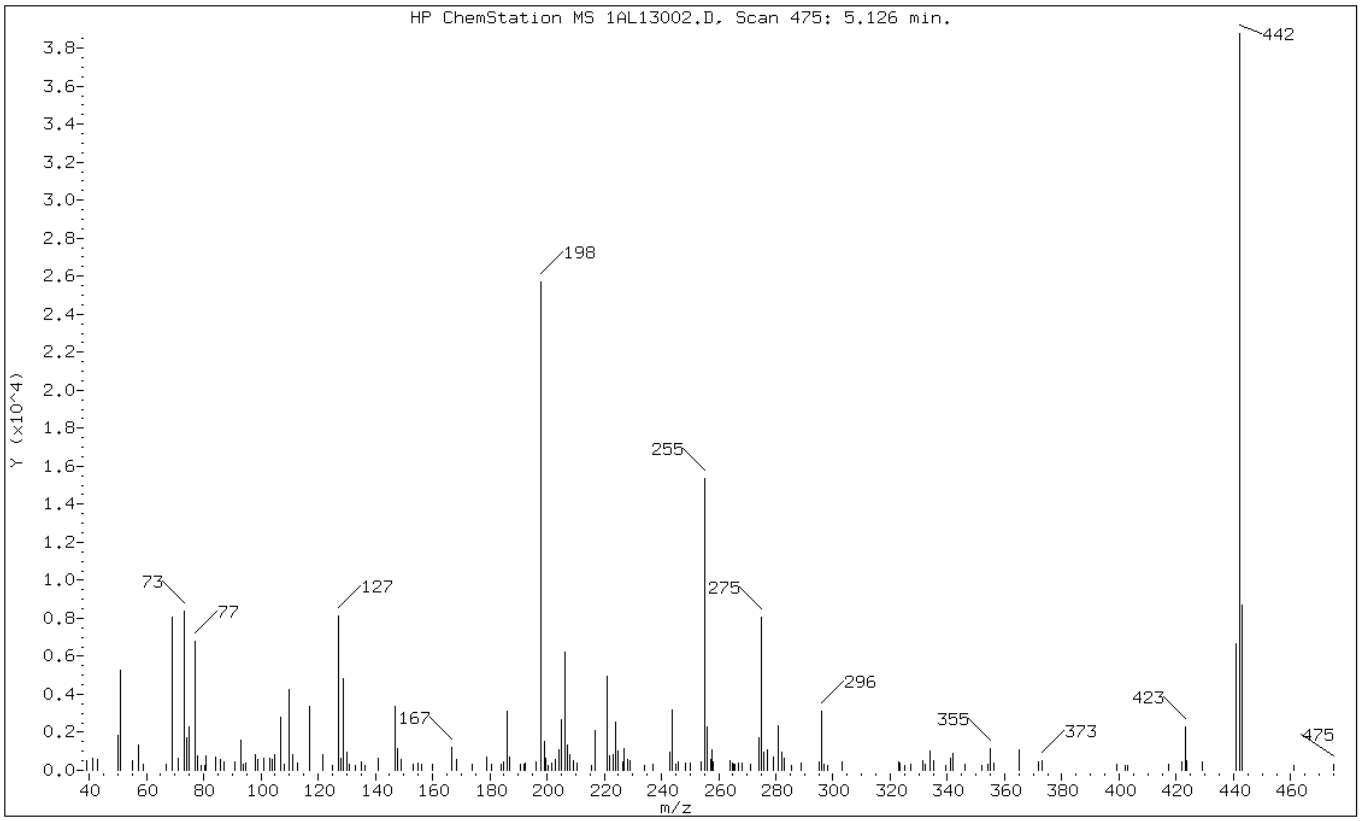
Data File: 1AL13002.D

Date: 13-DEC-2012 11:07

Client ID: DFTPP  Instrument: BSMA5973.i

Sample Info: DFTPP-1465456  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 20.46 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Mass 69 relative abundance | 31.43 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 198 | 31.65 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 442 | Greater than 50.00% of mass 198 | 150.78 |
| 199 | 5.00 - 9.00% of mass 198 | 5.93 |
| 275 | 10.00 - 60.00% of mass 198 | 31.33 |
| 365 | Greater than 1.00% of mass 198 | 4.30 |
| 441 | Present, but less than mass 443 | 25.81 |
| 443 | 15.00 - 24.00% of mass 442 | 33.77 ( 22.39) |

Data File: 1AL13002.D

Date: 13-DEC-2012 11:07

Client ID: DFTPP  Instrument: BSMA5973.i

Sample Info: DFTPP-1465456  Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\1AL13002.D
Spectrum: HP ChemStation MS 1AL13002.D, Scan 475: 5.126 min.
Location of Maximum: 442.00
Number of points: 161

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 39.10 | 503 | 128.00 | 607 | 215.70 | 265 | 288.70 | 360 |
| 41.10 | 628 | 129.00 | 4829 | 217.00 | 2092 | 295.00 | 471 |
| 42.90 | 567 | 130.00 | 925 | 221.10 | 4971 | 296.00 | 3114 |
| 49.90 | 1861 | 130.90 | 322 | 222.00 | 792 | 297.00 | 308 |
| 51.00 | 5260 | 132.90 | 254 | 223.00 | 849 | 298.10 | 259 |
| 55.10 | 514 | 135.10 | 473 | 223.90 | 2550 | 303.10 | 444 |
| 57.10 | 1314 | 136.30 | 255 | 225.00 | 996 | 322.80 | 451 |
| 59.10 | 303 | 141.10 | 620 | 226.40 | 445 | 323.20 | 406 |
| 67.10 | 337 | 147.10 | 3372 | 227.00 | 1158 | 325.00 | 252 |
| 69.00 | 8080 | 147.90 | 1139 | 228.20 | 589 | 327.20 | 300 |
| 71.10 | 644 | 149.00 | 543 | 228.90 | 539 | 331.40 | 497 |
| 73.10 | 8391 | 153.10 | 331 | 233.90 | 267 | 332.10 | 316 |
| 74.20 | 1731 | 155.10 | 393 | 237.10 | 333 | 333.80 | 1034 |
| 75.10 | 2308 | 156.20 | 289 | 243.00 | 948 | 335.00 | 501 |
| 77.00 | 6791 | 159.90 | 315 | 243.90 | 3166 | 339.20 | 275 |
| 77.90 | 790 | 166.90 | 1191 | 245.00 | 316 | 341.10 | 630 |
| 78.90 | 256 | 168.20 | 574 | 246.00 | 428 | 342.00 | 877 |
| 80.20 | 276 | 173.80 | 300 | 248.50 | 361 | 346.10 | 336 |
| 81.00 | 757 | 179.10 | 699 | 249.90 | 360 | 352.00 | 254 |
| 84.20 | 675 | 180.80 | 306 | 254.00 | 446 | 354.00 | 297 |
| 85.90 | 552 | 184.10 | 337 | 255.00 | 15361 | 355.00 | 1152 |
| 87.00 | 461 | 185.00 | 423 | 256.00 | 2300 | 356.10 | 385 |
| 91.10 | 448 | 186.10 | 3088 | 257.10 | 554 | 365.10 | 1105 |
| 92.90 | 1610 | 187.00 | 670 | 257.70 | 1087 | 371.90 | 427 |
| 93.70 | 293 | 190.80 | 342 | 258.20 | 446 | 373.10 | 482 |
| 94.80 | 367 | 192.00 | 307 | 264.20 | 525 | 399.00 | 339 |
| 98.00 | 847 | 192.50 | 411 | 264.90 | 396 | 402.20 | 266 |
| 99.00 | 597 | 196.20 | 442 | 265.20 | 338 | 403.00 | 273 |
| 101.10 | 621 | 198.00 | 25712 | 265.70 | 296 | 417.20 | 294 |
| 103.10 | 642 | 199.00 | 1526 | 266.80 | 389 | 422.10 | 433 |
| 104.10 | 557 | 199.70 | 624 | 268.20 | 375 | 423.00 | 2265 |
| 105.00 | 806 | 200.20 | 280 | 271.30 | 340 | 423.80 | 488 |
| 107.10 | 2785 | 201.50 | 380 | 274.20 | 1734 | 429.30 | 473 |
| 108.00 | 325 | 203.10 | 583 | 275.10 | 8055 | 441.00 | 6636 |
| 110.00 | 4220 | 204.00 | 1077 | 276.00 | 924 | 442.00 | 38768 |
| 111.10 | 818 | 205.00 | 2669 | 276.90 | 1063 | 443.00 | 8682 |
| 112.90 | 403 | 206.10 | 6233 | 279.00 | 672 | 461.10 | 273 |
| 117.10 | 3337 | 207.00 | 1323 | 281.00 | 2346 | 475.00 | 341 |
| 121.80 | 805 | 208.00 | 794 | 282.10 | 962 | | |
| 124.90 | 277 | 209.20 | 501 | 283.00 | 652 | | |

| | | | |
|---|---|---|---|
| 127.10 | 8138 | 210.70 | 386 |
| 285.60 | 279 | | |

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14002.D
Lab Smp Id: DFTPP  Client Smp ID: DFTPP
Inj Date : 14-DEC-2012 11:58
Operator : SCC  Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\a-dftpp198.m
Meth Date : 28-Nov-2012 12:16 cantins  Quant Type: ESTD
Cal Date :  Cal File:
Als bottle: 2  QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version: 4.14  Sample Matrix: None
Processing Host: TAM1000

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 5.127 | 5.150 | -0.023 | 198 | 22760 | | | 50.00- 0.00 | 65.46 |
| 5.127 | 5.150 | -0.023 | 51 | 5614 | | | 10.00- 80.00 | 24.67 |
| 5.127 | 5.150 | -0.023 | 68 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.127 | 5.150 | -0.023 | 69 | 9528 | | | 0.00- 0.00 | 41.86 |
| 5.127 | 5.150 | -0.023 | 70 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 5.127 | 5.150 | -0.023 | 127 | 5716 | | | 10.00- 80.00 | 25.11 |
| 5.127 | 5.150 | -0.023 | 197 | 259 | | | 0.00- 2.00 | 1.14 |
| 5.127 | 5.150 | -0.023 | 442 | 34768 | | | 50.00- 0.00 | 152.76 |
| 5.127 | 5.150 | -0.023 | 199 | 1278 | | | 5.00- 9.00 | 5.62 |
| 5.127 | 5.150 | -0.023 | 275 | 7269 | | | 10.00- 60.00 | 31.94 |
| 5.127 | 5.150 | -0.023 | 365 | 1129 | | | 1.00- 0.00 | 4.96 |
| 5.127 | 5.150 | -0.023 | 441 | 7848 | | | 0.01- 99.99 | 98.22 |
| 5.127 | 5.150 | -0.023 | 443 | 7990 | | | 15.00- 24.00 | 22.98 |

Data File: 1AL14002.D

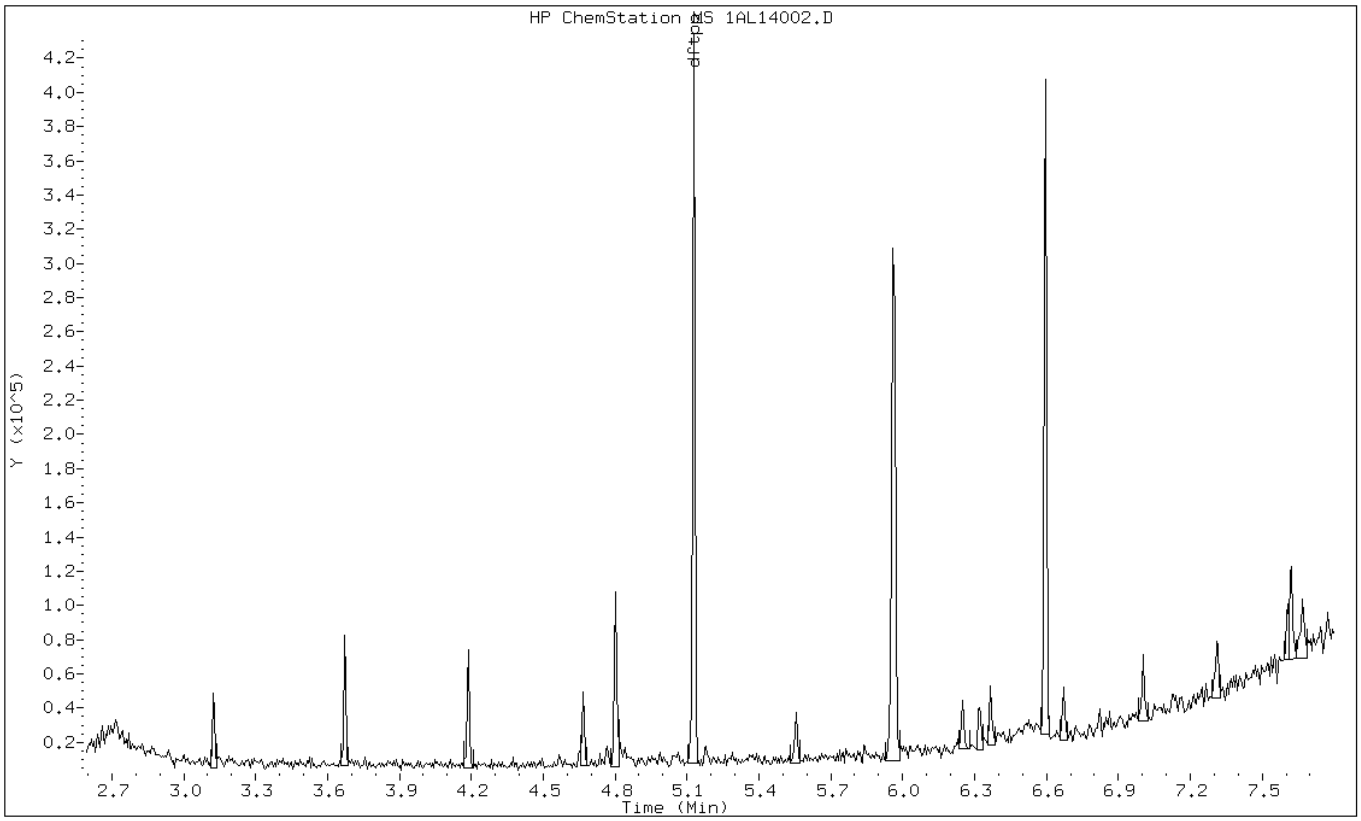
Date: 14-DEC-2012 11:58

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



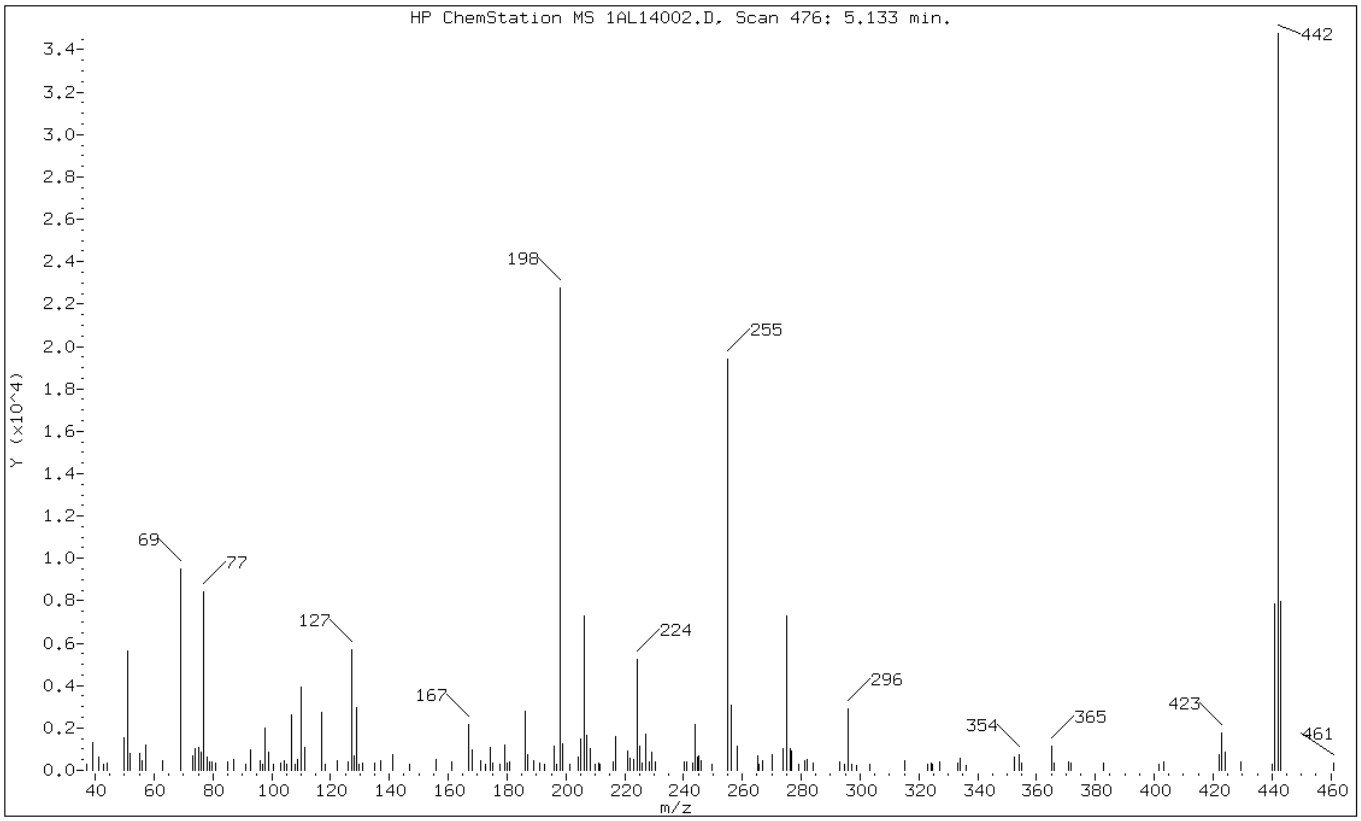
Data File: 1AL14002.D

Date: 14-DEC-2012 11:58

Client ID: DFTPP  Instrument: BSMA5973.i

Sample Info: DFTPP-1465456  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 24.67 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Mass 69 relative abundance | 41.86 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 198 | 25.11 |
| 197 | Less than 2.00% of mass 198 | 1.14 |
| 442 | Greater than 50.00% of mass 198 | 152.76 |
| 199 | 5.00 - 9.00% of mass 198 | 5.62 |
| 275 | 10.00 - 60.00% of mass 198 | 31.94 |
| 365 | Greater than 1.00% of mass 198 | 4.96 |
| 441 | Present, but less than mass 443 | 34.48 |
| 443 | 15.00 - 24.00% of mass 442 | 35.11 ( 22.98) |

Data File: 1AL14002.D

Date: 14-DEC-2012 11:58

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14002.D
Spectrum: HP ChemStation MS 1AL14002.D, Scan 476: 5.133 min.
Location of Maximum: 442.00
Number of points: 151

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.10 | 304 | 111.20 | 1087 | 205.10 | 1506 | 279.00 | 269 |
| 39.10 | 1306 | 117.00 | 2740 | 206.10 | 7268 | 281.10 | 470 |
| 41.20 | 632 | 118.00 | 301 | 207.20 | 1630 | 282.20 | 490 |
| 43.00 | 293 | 122.20 | 465 | 208.10 | 1012 | 284.20 | 348 |
| 44.10 | 334 | 125.90 | 397 | 210.00 | 299 | 293.00 | 404 |
| 50.00 | 1520 | 127.00 | 5716 | 211.10 | 322 | 294.90 | 274 |
| 51.10 | 5614 | 128.20 | 690 | 211.70 | 287 | 296.10 | 2926 |
| 52.00 | 791 | 129.00 | 2961 | 215.90 | 392 | 297.00 | 301 |
| 55.00 | 781 | 129.80 | 288 | 217.10 | 1591 | 298.90 | 254 |
| 56.00 | 428 | 131.00 | 354 | 221.00 | 897 | 303.30 | 305 |
| 57.10 | 1199 | 134.90 | 337 | 221.90 | 589 | 315.20 | 474 |
| 63.10 | 431 | 137.10 | 442 | 223.10 | 532 | 323.10 | 292 |
| 69.00 | 9528 | 141.10 | 764 | 224.10 | 5227 | 324.10 | 320 |
| 73.10 | 689 | 147.00 | 258 | 225.10 | 1112 | 324.60 | 286 |
| 74.00 | 1018 | 156.00 | 510 | 226.00 | 336 | 327.00 | 388 |
| 75.00 | 1055 | 161.10 | 377 | 227.00 | 1679 | 333.30 | 317 |
| 76.10 | 882 | 167.00 | 2189 | 228.30 | 412 | 333.90 | 553 |
| 77.00 | 8410 | 168.10 | 967 | 229.20 | 827 | 336.00 | 253 |
| 78.20 | 650 | 171.00 | 434 | 230.60 | 426 | 352.30 | 626 |
| 78.90 | 411 | 172.80 | 268 | 240.20 | 417 | 354.20 | 758 |
| 79.80 | 383 | 174.10 | 1102 | 241.00 | 391 | 354.90 | 346 |
| 81.00 | 363 | 175.00 | 333 | 243.20 | 334 | 365.00 | 1129 |
| 85.10 | 420 | 177.60 | 301 | 244.10 | 2154 | 365.90 | 346 |
| 87.20 | 493 | 179.10 | 1172 | 244.80 | 634 | 370.90 | 418 |
| 91.00 | 274 | 179.90 | 313 | 245.10 | 689 | 371.90 | 341 |
| 92.90 | 957 | 180.20 | 361 | 246.10 | 440 | 382.90 | 324 |
| 96.10 | 429 | 180.90 | 383 | 249.60 | 258 | 401.70 | 311 |
| 97.00 | 296 | 186.10 | 2796 | 255.00 | 19392 | 403.10 | 372 |
| 97.90 | 1973 | 187.00 | 747 | 256.10 | 3093 | 421.90 | 738 |
| 99.00 | 850 | 189.00 | 477 | 258.10 | 1143 | 423.10 | 1757 |
| 100.70 | 305 | 191.00 | 327 | 265.10 | 685 | 424.10 | 860 |
| 103.10 | 316 | 192.80 | 265 | 265.70 | 285 | 429.30 | 403 |
| 104.20 | 427 | 196.00 | 1133 | 267.00 | 446 | 440.10 | 262 |
| 105.00 | 268 | 196.80 | 259 | 270.30 | 714 | 441.10 | 7848 |
| 106.90 | 2645 | 198.00 | 22760 | 273.90 | 1015 | 442.00 | 34768 |
| 108.10 | 260 | 198.90 | 1278 | 275.00 | 7269 | 443.00 | 7990 |
| 108.90 | 490 | 201.20 | 308 | 276.10 | 998 | 461.00 | 349 |
| 110.10 | 3906 | 204.00 | 645 | 276.80 | 888 | | |

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-NOV-2012 10:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1462727
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\c-dftpp198.m
Meth Date : 29-Nov-2012 11:16 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 7.522 | 7.522 | 0.000 | 198 | 119912 | | | 50.00- 0.00 | 100.00 |
| 7.522 | 7.522 | 0.000 | 51 | 33176 | | | 10.00- 80.00 | 27.67 |
| 7.522 | 7.522 | 0.000 | 68 | 336 | | | 0.00- 2.00 | 0.74 |
| 7.522 | 7.522 | 0.000 | 69 | 45472 | | | 0.00- 0.00 | 37.92 |
| 7.522 | 7.522 | 0.000 | 70 | 292 | | | 0.00- 2.00 | 0.64 |
| 7.522 | 7.522 | 0.000 | 127 | 52768 | | | 10.00- 80.00 | 44.01 |
| 7.522 | 7.522 | 0.000 | 197 | 1490 | | | 0.00- 2.00 | 1.24 |
| 7.522 | 7.522 | 0.000 | 442 | 97416 | | | 50.00- 0.00 | 81.24 |
| 7.522 | 7.522 | 0.000 | 199 | 8194 | | | 5.00- 9.00 | 6.83 |
| 7.522 | 7.522 | 0.000 | 275 | 27816 | | | 10.00- 60.00 | 23.20 |
| 7.522 | 7.522 | 0.000 | 365 | 4293 | | | 1.00- 0.00 | 3.58 |
| 7.522 | 7.522 | 0.000 | 441 | 14000 | | | 0.01- 99.99 | 69.53 |
| 7.522 | 7.522 | 0.000 | 443 | 20136 | | | 15.00- 24.00 | 20.67 |

Data File: 1CK29002.D

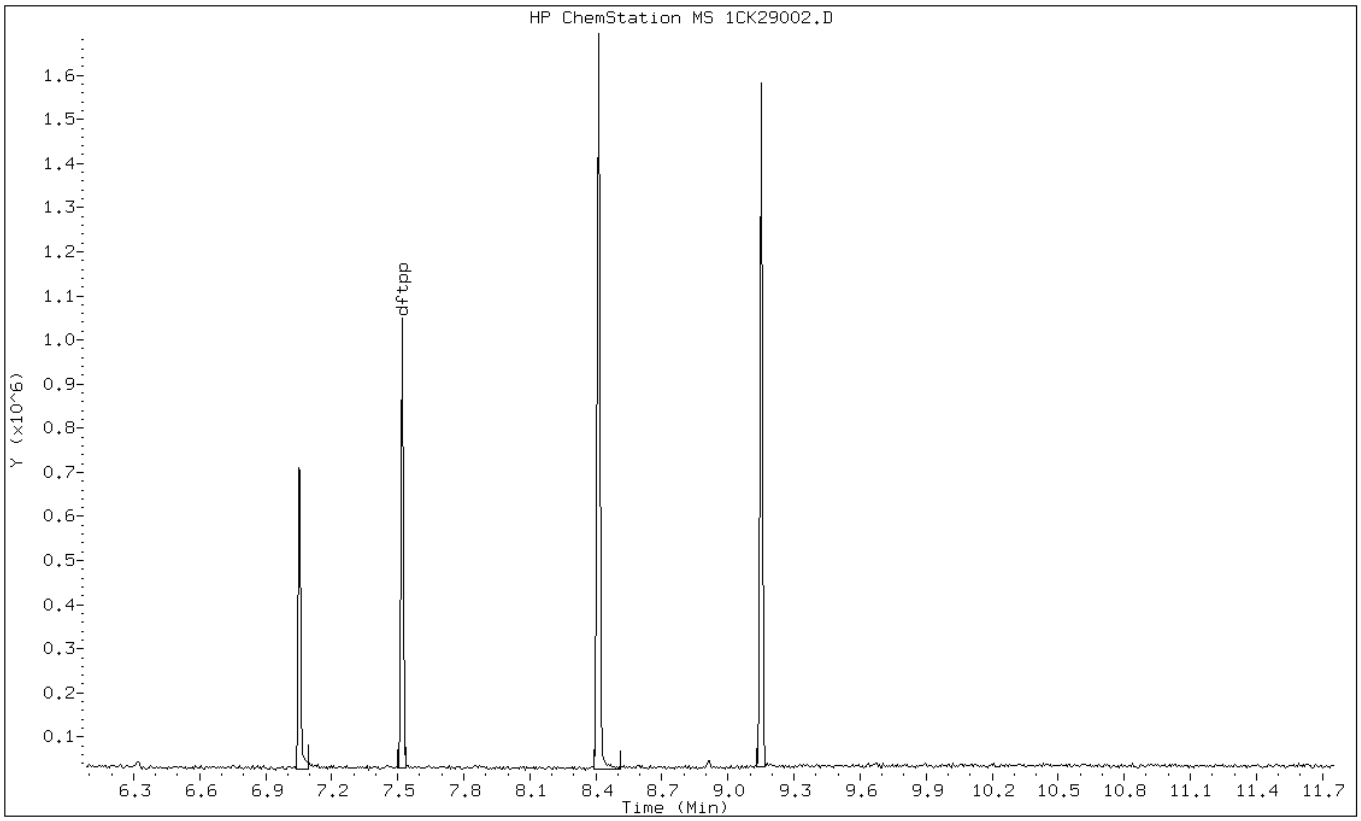
Date: 29-NOV-2012 10:59

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1462727

Operator: SCC



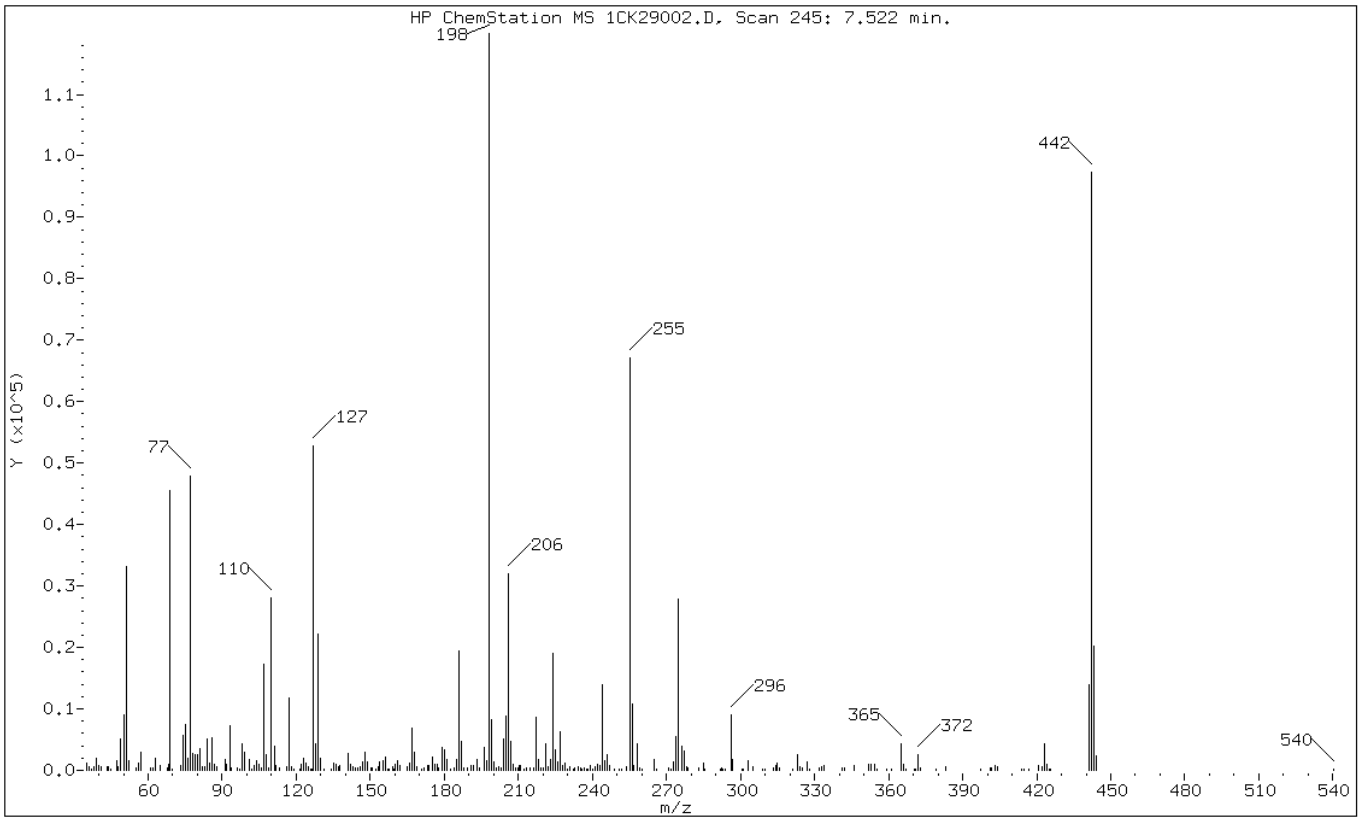
Data File: 1CK29002.D

Date: 29-NOV-2012 10:59

Client ID: DFTPP  Instrument: BSMC5973.i

Sample Info: DFTPP-1462727  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 27.67 |
| 68 | Less than 2.00% of mass 69 | 0.28 ( 0.74) |
| 69 | Mass 69 relative abundance | 37.92 |
| 70 | Less than 2.00% of mass 69 | 0.24 ( 0.64) |
| 127 | 10.00 - 80.00% of mass 198 | 44.01 |
| 197 | Less than 2.00% of mass 198 | 1.24 |
| 442 | Greater than 50.00% of mass 198 | 81.24 |
| 199 | 5.00 - 9.00% of mass 198 | 6.83 |
| 275 | 10.00 - 60.00% of mass 198 | 23.20 |
| 365 | Greater than 1.00% of mass 198 | 3.58 |
| 441 | Present, but less than mass 443 | 11.68 |
| 443 | 15.00 - 24.00% of mass 442 | 16.79 ( 20.67) |

Data File: 1CK29002.D

Date: 29-NOV-2012 10:59

Client ID: DFTPP  Instrument: BSMC5973.i

Sample Info: DFTPP-1462727  Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912_pahIC.b\1CK29002.D
Spectrum: HP ChemStation MS 1CK29002.D, Scan 245: 7.522 min.
Location of Maximum: 198.00
Number of points: 276

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 35.10 | 1107 | 123.10 | 1998 | 201.20 | 468 | 278.60 | 360 |
| 35.90 | 664 | 124.00 | 1147 | 201.90 | 630 | 282.90 | 308 |
| 37.10 | 258 | 125.00 | 669 | 202.80 | 389 | 284.90 | 1265 |
| 38.10 | 638 | 125.80 | 170 | 204.10 | 5180 | 285.70 | 237 |
| 39.10 | 2042 | 126.20 | 220 | 205.10 | 8767 | 291.70 | 163 |
| 40.00 | 872 | 127.10 | 52768 | 206.10 | 31976 | 292.10 | 320 |
| 41.20 | 658 | 128.00 | 4327 | 207.00 | 4772 | 293.00 | 239 |
| 43.30 | 593 | 129.00 | 22184 | 208.00 | 902 | 293.80 | 191 |
| 44.00 | 575 | 130.00 | 1988 | 209.10 | 302 | 296.00 | 9021 |
| 45.10 | 163 | 131.10 | 181 | 209.90 | 398 | 296.90 | 1853 |
| 47.10 | 1557 | 134.30 | 160 | 210.40 | 776 | 300.80 | 180 |
| 48.00 | 558 | 135.10 | 1134 | 211.00 | 711 | 301.10 | 168 |
| 49.00 | 5171 | 135.90 | 992 | 212.20 | 184 | 302.90 | 1633 |
| 50.10 | 8951 | 137.10 | 501 | 213.20 | 387 | 305.20 | 539 |
| 51.10 | 33176 | 137.80 | 852 | 214.90 | 354 | 309.00 | 218 |
| 52.10 | 1578 | 141.00 | 2837 | 216.10 | 381 | 310.10 | 256 |
| 55.00 | 307 | 142.10 | 1014 | 217.00 | 8728 | 313.10 | 312 |
| 56.00 | 1224 | 143.00 | 648 | 218.00 | 1750 | 314.10 | 712 |
| 57.00 | 2951 | 144.00 | 353 | 219.10 | 344 | 315.00 | 1227 |
| 61.10 | 314 | 144.90 | 341 | 220.10 | 360 | 315.90 | 413 |
| 62.10 | 430 | 146.00 | 672 | 221.10 | 4257 | 321.00 | 165 |
| 63.10 | 2041 | 147.00 | 1454 | 222.10 | 642 | 323.00 | 2620 |
| 65.00 | 872 | 148.00 | 3012 | 223.00 | 1708 | 323.90 | 604 |
| 67.70 | 336 | 148.90 | 1310 | 224.10 | 19040 | 325.00 | 403 |
| 68.10 | 1020 | 150.10 | 324 | 225.00 | 3397 | 326.90 | 1281 |
| 69.00 | 45472 | 150.90 | 380 | 226.00 | 1318 | 327.80 | 265 |
| 69.90 | 292 | 152.20 | 237 | 227.00 | 6298 | 331.90 | 299 |
| 73.20 | 709 | 153.10 | 632 | 227.70 | 382 | 332.90 | 537 |
| 74.10 | 5669 | 153.90 | 1374 | 228.10 | 763 | 333.80 | 777 |
| 75.00 | 7382 | 155.10 | 1659 | 229.10 | 1214 | 341.10 | 420 |
| 76.10 | 2060 | 156.10 | 2115 | 230.00 | 211 | 342.30 | 313 |
| 77.10 | 47808 | 157.00 | 276 | 231.00 | 543 | 345.80 | 830 |
| 78.10 | 2778 | 157.80 | 220 | 232.20 | 222 | 352.10 | 975 |
| 79.00 | 2560 | 158.90 | 682 | 233.00 | 368 | 353.00 | 1027 |
| 80.00 | 2581 | 159.40 | 270 | 234.10 | 515 | 354.10 | 886 |
| 81.00 | 3525 | 160.10 | 1024 | 235.00 | 383 | 355.10 | 184 |
| 82.10 | 631 | 161.10 | 1558 | 235.70 | 155 | 359.10 | 185 |
| 83.00 | 612 | 161.90 | 745 | 236.70 | 320 | 361.00 | 201 |
| 84.00 | 5150 | 164.90 | 514 | 237.70 | 227 | 365.00 | 4293 |
| 85.10 | 1128 | 166.00 | 1267 | 238.20 | 221 | 366.10 | 984 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 86.00 | 5237 | 167.00 | 6964 | 239.00 | 714 | 366.80 | 165 |
| 86.90 | 914 | 168.00 | 3007 | 240.10 | 231 | 370.40 | 187 |
| 87.90 | 561 | 168.90 | 548 | 241.00 | 553 | 370.90 | 160 |
| 91.10 | 1693 | 170.80 | 245 | 242.10 | 1052 | 372.00 | 2630 |
| 91.90 | 1064 | 171.90 | 354 | 243.00 | 838 | 373.10 | 420 |
| 93.10 | 7326 | 173.00 | 843 | 244.10 | 13950 | 379.00 | 288 |
| 93.90 | 472 | 173.90 | 851 | 245.00 | 1572 | 383.20 | 547 |
| 96.20 | 428 | 175.20 | 2131 | 245.90 | 2550 | 397.10 | 176 |
| 97.30 | 257 | 176.00 | 921 | 247.00 | 692 | 401.20 | 318 |
| 98.00 | 4249 | 177.10 | 1058 | 249.00 | 201 | 401.80 | 316 |
| 99.00 | 2976 | 177.70 | 437 | 251.00 | 169 | 403.00 | 762 |
| 101.10 | 1780 | 179.00 | 3715 | 252.00 | 195 | 403.90 | 592 |
| 102.20 | 281 | 180.00 | 3326 | 253.90 | 615 | 414.00 | 200 |
| 103.10 | 732 | 181.10 | 1683 | 255.00 | 67184 | 414.70 | 249 |
| 104.10 | 1643 | 182.30 | 229 | 256.00 | 10800 | 416.90 | 150 |
| 105.00 | 982 | 184.20 | 393 | 256.70 | 761 | 420.90 | 753 |
| 106.00 | 383 | 185.00 | 1825 | 258.00 | 4369 | 422.10 | 513 |
| 107.00 | 17216 | 186.10 | 19448 | 259.00 | 478 | 423.00 | 4406 |
| 108.00 | 2533 | 187.00 | 4666 | 260.00 | 155 | 424.00 | 1039 |
| 109.00 | 314 | 188.00 | 367 | 265.10 | 1722 | 424.90 | 170 |
| 110.00 | 28024 | 189.20 | 461 | 265.90 | 268 | 425.80 | 168 |
| 111.10 | 3995 | 190.90 | 776 | 266.20 | 269 | 441.00 | 14000 |
| 111.90 | 803 | 191.90 | 880 | 270.80 | 333 | 442.00 | 97416 |
| 113.00 | 347 | 193.10 | 1698 | 272.00 | 242 | 443.00 | 20136 |
| 116.20 | 556 | 194.00 | 306 | 273.00 | 1425 | 443.90 | 2260 |
| 117.10 | 11777 | 196.20 | 3696 | 274.00 | 5444 | 540.30 | 283 |
| 118.00 | 611 | 197.10 | 1490 | 275.00 | 27816 | | |
| 119.10 | 238 | 198.00 | 119912 | 276.00 | 3898 | | |
| 121.40 | 234 | 199.00 | 8194 | 277.00 | 3080 | | |
| 121.90 | 925 | 199.90 | 1404 | 278.10 | 586 | | |

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\1CL18002.D
Lab Smp Id: DFTPP  Client Smp ID: DFTPP
Inj Date : 18-DEC-2012 11:17
Operator : SCC  Inst ID: BSMC5973.i
Smp Info : DFTPP-1462727
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\c-dftpp442.m
Meth Date : 29-Nov-2012 11:16 cantins  Quant Type: ESTD
Cal Date :  Cal File:
Als bottle: 2  QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version: 4.14  Sample Matrix: None
Processing Host: TAM1000

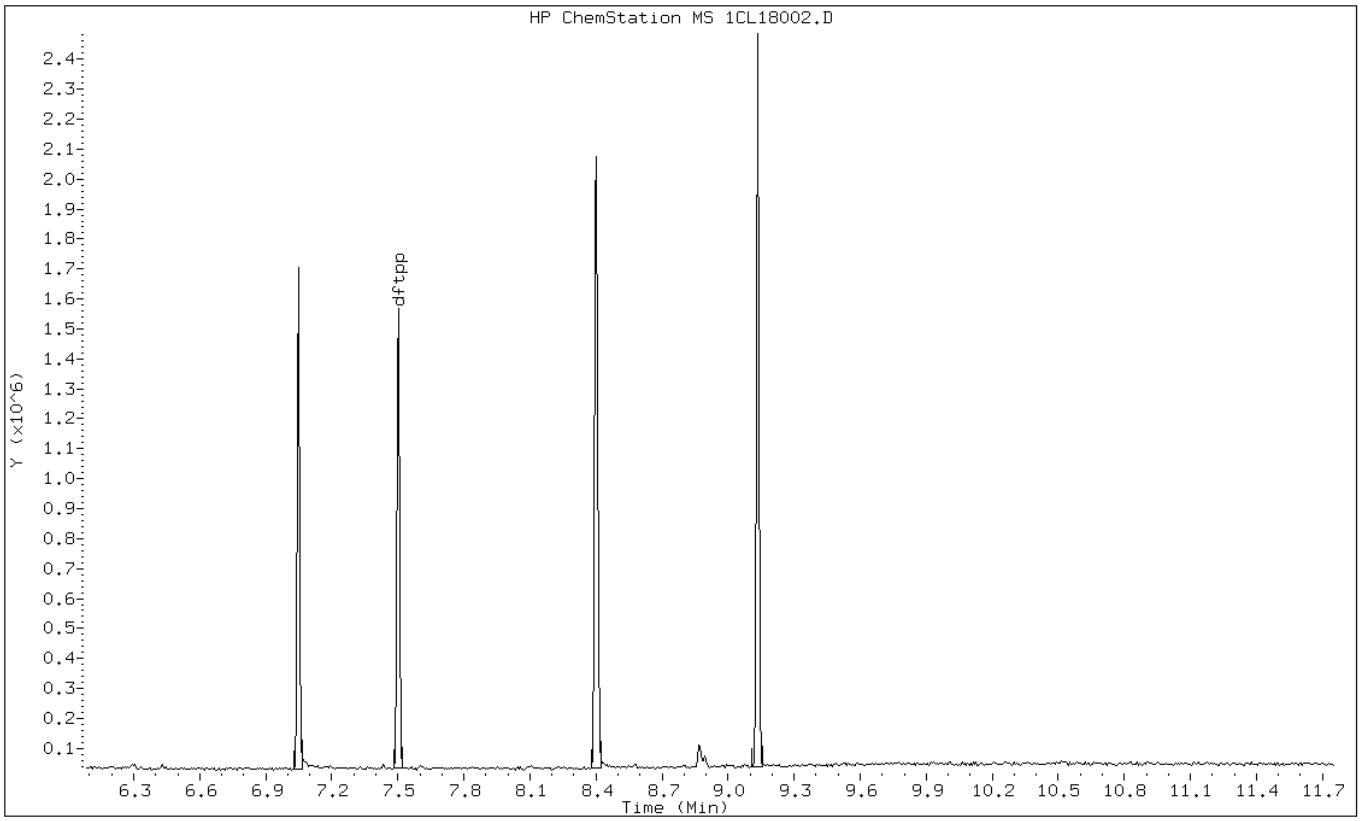
| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 7.504 | 7.522 | -0.018 | 442 | 191872 | | | 50.00- 0.00 | 100.00 |
| 7.504 | 7.522 | -0.018 | 51 | 53000 | | | 10.00- 80.00 | 27.62 |
| 7.504 | 7.522 | -0.018 | 68 | 1189 | | | 0.00- 2.00 | 1.80 |
| 7.504 | 7.522 | -0.018 | 69 | 66056 | | | 0.00- 0.00 | 34.43 |
| 7.504 | 7.522 | -0.018 | 70 | 594 | | | 0.00- 2.00 | 0.90 |
| 7.504 | 7.522 | -0.018 | 127 | 71080 | | | 10.00- 80.00 | 37.05 |
| 7.504 | 7.522 | -0.018 | 197 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 7.504 | 7.522 | -0.018 | 198 | 175744 | | | 50.00- 0.00 | 91.59 |
| 7.504 | 7.522 | -0.018 | 199 | 12479 | | | 5.00- 9.00 | 7.10 |
| 7.504 | 7.522 | -0.018 | 275 | 39656 | | | 10.00- 60.00 | 20.67 |
| 7.504 | 7.522 | -0.018 | 365 | 5198 | | | 1.00- 0.00 | 2.71 |
| 7.504 | 7.522 | -0.018 | 441 | 28280 | | | 0.01- 99.99 | 74.26 |
| 7.504 | 7.522 | -0.018 | 443 | 38080 | | | 15.00- 24.00 | 19.85 |

Data File: 1CL18002.D

Date: 18-DEC-2012 11:17

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1462727 | Operator: SCC



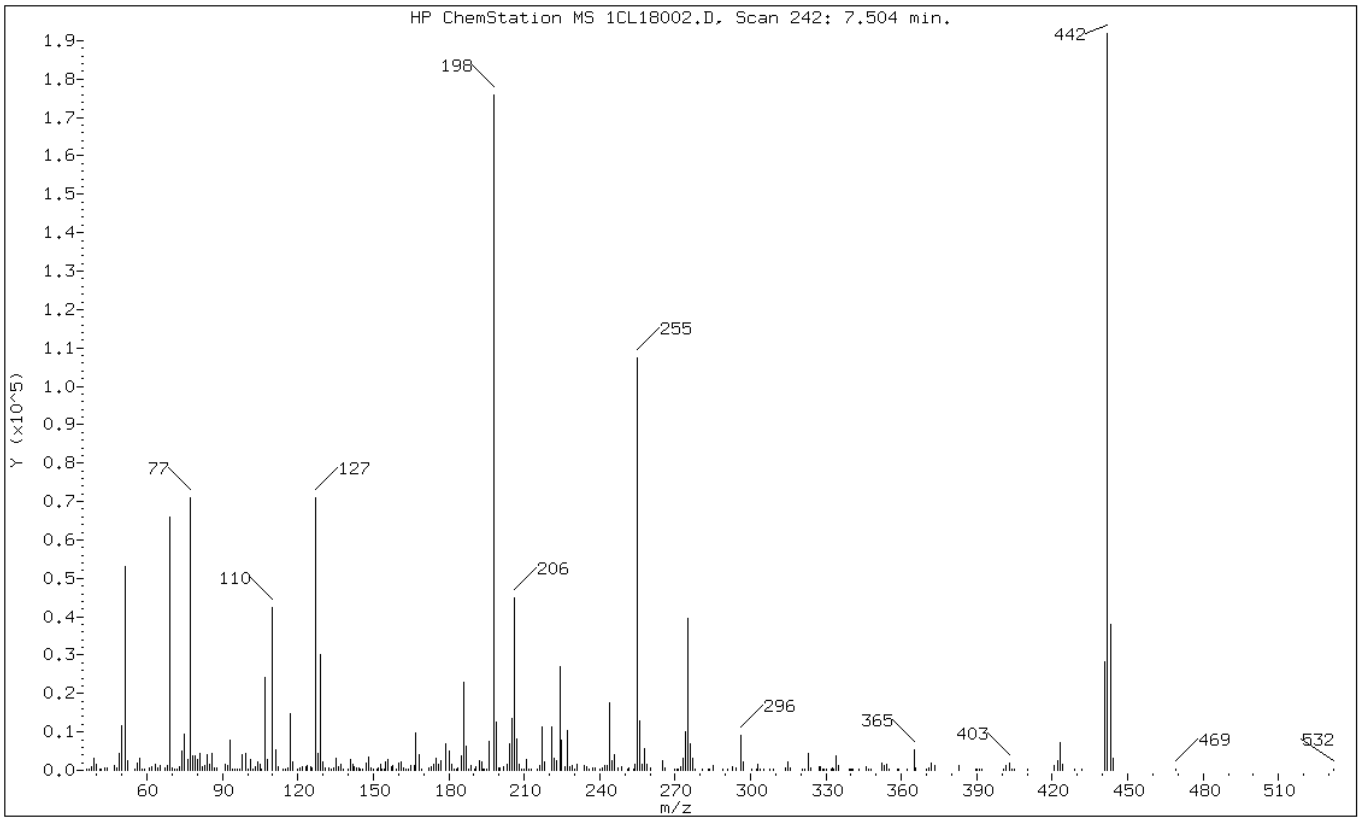
Data File: 1CL18002.D

Date: 18-DEC-2012 11:17

Client ID: DFTPP  Instrument: BSMC5973.i

Sample Info: DFTPP-1462727  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 442 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 442 | 27.62 |
| 68 | Less than 2.00% of mass 69 | 0.62 ( 1.80) |
| 69 | Mass 69 relative abundance | 34.43 |
| 70 | Less than 2.00% of mass 69 | 0.31 ( 0.90) |
| 127 | 10.00 - 80.00% of mass 442 | 37.05 |
| 197 | Less than 2.00% of mass 198 | 0.00 ( 0.00) |
| 198 | Greater than 50.00% of mass 442 | 91.59 |
| 199 | 5.00 - 9.00% of mass 198 | 6.50 ( 7.10) |
| 275 | 10.00 - 60.00% of mass 442 | 20.67 |
| 365 | Greater than 1.00% of mass 442 | 2.71 |
| 441 | Present, but less than mass 443 | 14.74 |
| 443 | 15.00 - 24.00% of mass 442 | 19.85 |

Data File: 1CL18002.D

Date: 18-DEC-2012 11:17

Client ID: DFTPP  Instrument: BSMC5973.i

Sample Info: DFTPP-1462727  Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C121812.b\1CL18002.D
Spectrum: HP ChemStation MS 1CL18002.D, Scan 242: 7.504 min.
Location of Maximum: 442.00
Number of points: 294

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 353 | 121.00 | 554 | 196.10 | 7431 | 292.90 | 876 |
| 37.00 | 382 | 121.90 | 947 | 198.00 | 175744 | 294.10 | 489 |
| 38.00 | 1001 | 123.00 | 916 | 199.00 | 12479 | 296.00 | 9035 |
| 39.10 | 3253 | 123.80 | 1171 | 199.80 | 715 | 296.90 | 2326 |
| 40.00 | 1489 | 125.00 | 833 | 200.20 | 761 | 300.40 | 379 |
| 41.10 | 346 | 125.80 | 540 | 201.60 | 1085 | 302.20 | 285 |
| 41.90 | 372 | 127.10 | 71080 | 203.10 | 1488 | 303.00 | 1474 |
| 43.30 | 500 | 128.10 | 4509 | 204.10 | 6983 | 304.00 | 223 |
| 44.10 | 751 | 129.00 | 30208 | 205.00 | 13647 | 305.20 | 319 |
| 47.00 | 1302 | 130.00 | 2129 | 206.10 | 44960 | 307.80 | 303 |
| 48.00 | 743 | 130.90 | 670 | 207.10 | 8265 | 309.00 | 321 |
| 49.10 | 4367 | 132.10 | 554 | 208.10 | 1424 | 313.90 | 739 |
| 50.10 | 11480 | 133.20 | 241 | 209.10 | 394 | 315.00 | 2273 |
| 51.10 | 53000 | 134.10 | 648 | 210.00 | 266 | 316.00 | 762 |
| 52.10 | 2666 | 135.10 | 3101 | 211.10 | 2792 | 320.70 | 408 |
| 55.10 | 259 | 136.10 | 1061 | 212.00 | 330 | 321.70 | 207 |
| 56.00 | 1925 | 137.10 | 1717 | 213.00 | 217 | 323.10 | 4399 |
| 57.00 | 3076 | 137.90 | 223 | 215.10 | 462 | 324.10 | 753 |
| 58.00 | 165 | 139.90 | 396 | 216.00 | 1259 | 327.10 | 959 |
| 58.90 | 274 | 141.10 | 2940 | 217.00 | 11165 | 327.80 | 847 |
| 61.10 | 644 | 141.90 | 1493 | 218.10 | 2202 | 328.80 | 185 |
| 62.00 | 820 | 142.60 | 956 | 221.00 | 11348 | 329.20 | 248 |
| 63.10 | 1628 | 143.20 | 563 | 221.70 | 3285 | 330.20 | 165 |
| 64.30 | 532 | 144.10 | 473 | 222.90 | 2644 | 331.90 | 296 |
| 65.10 | 1143 | 145.00 | 235 | 224.10 | 26968 | 332.70 | 512 |
| 67.20 | 480 | 145.90 | 260 | 225.00 | 7854 | 333.20 | 337 |
| 68.20 | 1189 | 147.10 | 1816 | 226.00 | 800 | 334.00 | 3916 |
| 69.00 | 66056 | 148.00 | 3498 | 227.10 | 10343 | 335.00 | 1271 |
| 70.00 | 594 | 149.20 | 587 | 228.00 | 1065 | 339.10 | 206 |
| 71.00 | 237 | 150.20 | 162 | 229.00 | 1394 | 340.00 | 230 |
| 71.90 | 266 | 151.40 | 464 | 230.00 | 400 | 340.20 | 242 |
| 73.00 | 1088 | 152.00 | 586 | 231.10 | 1479 | 340.90 | 257 |
| 74.00 | 4877 | 152.90 | 1479 | 233.90 | 1330 | 343.30 | 372 |
| 75.00 | 9279 | 153.50 | 291 | 235.00 | 956 | 346.00 | 885 |
| 76.10 | 2835 | 154.40 | 192 | 236.00 | 398 | 347.00 | 347 |
| 77.10 | 71072 | 155.00 | 2139 | 237.20 | 656 | 347.70 | 181 |
| 78.10 | 3630 | 156.00 | 2811 | 238.20 | 475 | 352.00 | 2033 |
| 79.20 | 3640 | 157.00 | 808 | 240.00 | 463 | 353.10 | 1310 |
| 79.90 | 2674 | 157.70 | 1114 | 241.10 | 645 | 354.10 | 1680 |
| 81.00 | 4390 | 158.90 | 410 | 242.10 | 1350 | 355.00 | 386 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82.00 | 1013 | 160.10 | 1831 | 242.90 | 1231 | 358.60 | 201 |
| 83.00 | 1370 | 161.10 | 2287 | 244.10 | 17552 | 359.10 | 340 |
| 84.00 | 4051 | 162.10 | 474 | 245.00 | 2606 | 362.50 | 217 |
| 85.00 | 1553 | 163.10 | 310 | 246.00 | 3968 | 365.00 | 5198 |
| 86.00 | 4368 | 164.00 | 223 | 247.10 | 712 | 365.80 | 628 |
| 87.00 | 711 | 165.00 | 1166 | 248.90 | 846 | 369.80 | 278 |
| 87.80 | 639 | 166.10 | 1325 | 250.90 | 387 | 370.90 | 539 |
| 91.10 | 1478 | 167.00 | 9882 | 251.70 | 513 | 372.10 | 1909 |
| 92.20 | 1263 | 168.10 | 4044 | 253.40 | 340 | 373.10 | 1111 |
| 93.00 | 7714 | 169.10 | 431 | 254.10 | 1414 | 383.00 | 1383 |
| 93.90 | 369 | 172.00 | 616 | 255.00 | 107504 | 389.80 | 163 |
| 95.00 | 312 | 173.00 | 946 | 256.10 | 12889 | 390.30 | 181 |
| 96.00 | 394 | 174.20 | 1513 | 257.10 | 1430 | 391.20 | 336 |
| 96.80 | 161 | 175.00 | 3254 | 258.00 | 5650 | 392.10 | 363 |
| 98.00 | 4226 | 176.10 | 1592 | 259.00 | 1687 | 400.70 | 271 |
| 99.10 | 4366 | 177.10 | 2407 | 260.10 | 575 | 401.80 | 1200 |
| 100.00 | 225 | 179.00 | 6894 | 265.00 | 2445 | 403.10 | 1916 |
| 101.00 | 2832 | 180.10 | 5019 | 265.90 | 557 | 404.10 | 163 |
| 102.00 | 331 | 181.00 | 1602 | 269.80 | 292 | 405.10 | 244 |
| 102.90 | 797 | 182.10 | 263 | 270.70 | 188 | 410.00 | 177 |
| 104.00 | 2290 | 182.90 | 175 | 271.10 | 389 | 420.90 | 1309 |
| 105.00 | 1617 | 183.80 | 712 | 272.00 | 885 | 422.00 | 2444 |
| 105.70 | 387 | 185.00 | 3618 | 273.00 | 3250 | 423.00 | 7270 |
| 107.10 | 24264 | 186.10 | 22784 | 274.10 | 10173 | 424.00 | 1620 |
| 108.00 | 2714 | 187.00 | 6281 | 275.10 | 39656 | 429.10 | 182 |
| 110.00 | 42368 | 187.90 | 459 | 276.00 | 7036 | 431.60 | 163 |
| 111.00 | 5366 | 189.00 | 1306 | 277.00 | 2996 | 441.10 | 28280 |
| 112.00 | 1053 | 190.10 | 258 | 278.00 | 283 | 442.00 | 191872 |
| 114.30 | 230 | 190.90 | 915 | 281.00 | 335 | 443.10 | 38080 |
| 114.90 | 391 | 192.00 | 2668 | 283.00 | 235 | 444.10 | 3276 |
| 115.90 | 741 | 193.00 | 2063 | 283.80 | 294 | 469.20 | 196 |
| 117.00 | 14902 | 193.70 | 357 | 285.00 | 1162 | 531.90 | 297 |
| 118.10 | 2140 | 194.20 | 443 | 288.90 | 310 | | |
| 120.00 | 344 | 195.00 | 337 | 290.90 | 349 | | |

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\1DL06002.D
Lab Smp Id: DFTPP  Client Smp ID: DFTPP
Inj Date : 06-DEC-2012 11:28
Operator : SCC  Inst ID: BSMSD.i
Smp Info : DFTPP-1462727
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D120612.b\d-dftpp198.m
Meth Date : 05-Dec-2012 11:04 cantins  Quant Type: ESTD
Cal Date :  Cal File:
Als bottle: 2  QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version: 4.14  Sample Matrix: None
Processing Host: TAM1000

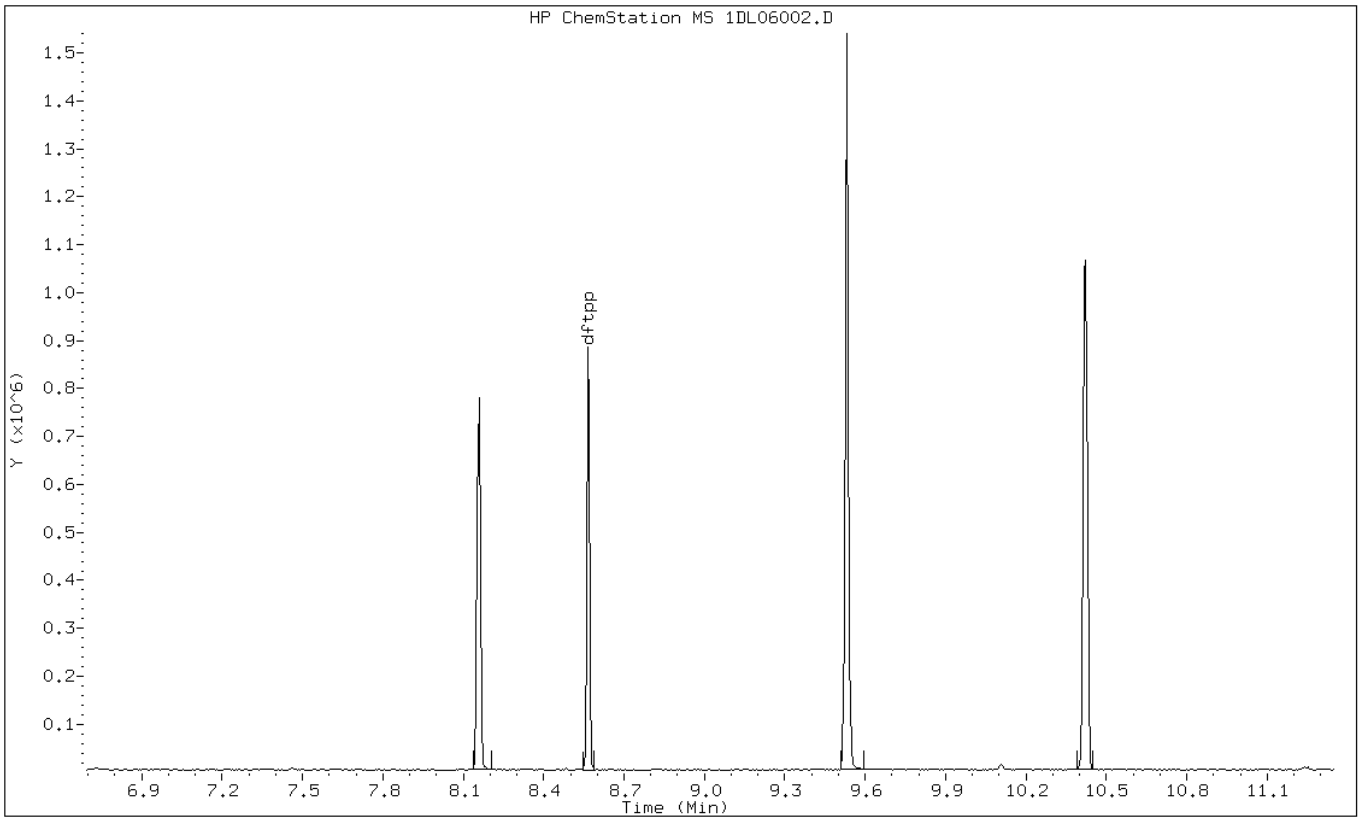
| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 8.564 | 8.574 | -0.010 | 198 | 100608 | | | 50.00- 0.00 | 100.00 |
| 8.564 | 8.574 | -0.010 | 51 | 43320 | | | 10.00- 80.00 | 43.06 |
| 8.564 | 8.574 | -0.010 | 68 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.564 | 8.574 | -0.010 | 69 | 46536 | | | 0.00- 0.00 | 46.25 |
| 8.564 | 8.574 | -0.010 | 70 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.564 | 8.574 | -0.010 | 127 | 53992 | | | 10.00- 80.00 | 53.67 |
| 8.564 | 8.574 | -0.010 | 197 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.564 | 8.574 | -0.010 | 442 | 63880 | | | 50.00- 0.00 | 63.49 |
| 8.564 | 8.574 | -0.010 | 199 | 7621 | | | 5.00- 9.00 | 7.57 |
| 8.564 | 8.574 | -0.010 | 275 | 26848 | | | 10.00- 60.00 | 26.69 |
| 8.564 | 8.574 | -0.010 | 365 | 2865 | | | 1.00- 0.00 | 2.85 |
| 8.564 | 8.574 | -0.010 | 441 | 9298 | | | 0.01- 99.99 | 73.93 |
| 8.564 | 8.574 | -0.010 | 443 | 12577 | | | 15.00- 24.00 | 19.69 |

Data File: 1DL06002.D

Date: 06-DEC-2012 11:28

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1462727 | Operator: SCC



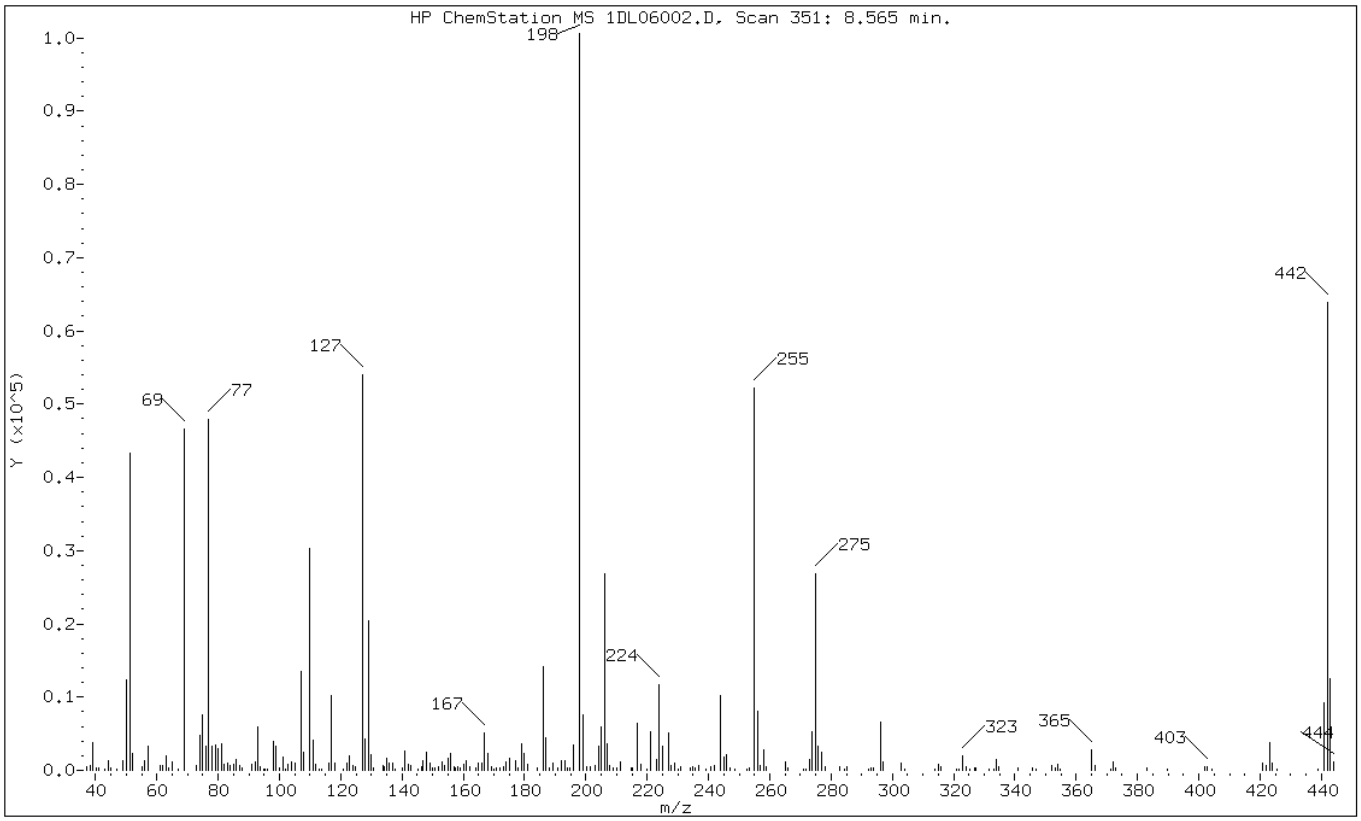
Data File: 1DL06002.D

Date: 06-DEC-2012 11:28

Client ID: DFTPP  Instrument: BSMSD.i

Sample Info: DFTPP-1462727  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 198 | 43.06 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Mass 69 relative abundance | 46.25 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 198 | 53.67 |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 442 | Greater than 50.00% of mass 198 | 63.49 |
| 199 | 5.00 - 9.00% of mass 198 | 7.57 |
| 275 | 10.00 - 60.00% of mass 198 | 26.69 |
| 365 | Greater than 1.00% of mass 198 | 2.85 |
| 441 | Present, but less than mass 443 | 9.24 |
| 443 | 15.00 - 24.00% of mass 442 | 12.50 ( 19.69) |

Data File: 1DL06002.D

Date: 06-DEC-2012 11:28

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1462727 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D120612_pahIC.b\1DL06002.D
Spectrum: HP ChemStation MS 1DL06002.D, Scan 351: 8.565 min.
Location of Maximum: 197.90
Number of points: 238

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.10 | 471 | 113.80 | 154 | 184.20 | 286 | 271.90 | 181 |
| 38.10 | 722 | 116.00 | 1011 | 186.00 | 14228 | 272.90 | 1552 |
| 39.10 | 3793 | 117.00 | 10137 | 187.00 | 4490 | 273.90 | 5327 |
| 40.10 | 351 | 118.00 | 1035 | 187.90 | 338 | 275.00 | 26848 |
| 40.90 | 249 | 120.90 | 156 | 189.10 | 1066 | 275.90 | 3334 |
| 43.00 | 171 | 122.00 | 950 | 190.70 | 309 | 277.00 | 2434 |
| 44.10 | 1391 | 123.00 | 1943 | 192.00 | 1310 | 278.00 | 440 |
| 45.10 | 320 | 123.90 | 730 | 193.00 | 1285 | 282.80 | 416 |
| 46.90 | 180 | 124.90 | 557 | 193.80 | 297 | 284.30 | 214 |
| 49.00 | 1394 | 127.00 | 53992 | 194.70 | 268 | 285.10 | 449 |
| 50.10 | 12392 | 128.10 | 4330 | 196.00 | 3395 | 292.10 | 184 |
| 51.10 | 43320 | 129.00 | 20432 | 197.90 | 100608 | 293.00 | 357 |
| 52.10 | 2357 | 130.00 | 2110 | 198.90 | 7621 | 293.90 | 253 |
| 55.00 | 495 | 130.80 | 365 | 200.10 | 446 | 296.00 | 6540 |
| 56.00 | 1251 | 133.90 | 578 | 201.60 | 542 | 296.90 | 1128 |
| 57.00 | 3314 | 134.20 | 503 | 203.10 | 581 | 302.90 | 907 |
| 61.00 | 661 | 135.00 | 1617 | 204.00 | 3318 | 303.90 | 164 |
| 62.00 | 607 | 135.90 | 941 | 205.00 | 5973 | 313.90 | 175 |
| 63.00 | 1902 | 137.00 | 1041 | 206.00 | 26808 | 315.00 | 809 |
| 64.00 | 401 | 137.80 | 222 | 207.00 | 3600 | 315.90 | 447 |
| 64.90 | 1081 | 140.00 | 270 | 207.90 | 736 | 320.90 | 213 |
| 67.00 | 202 | 141.00 | 2689 | 208.90 | 339 | 321.80 | 161 |
| 69.00 | 46536 | 142.10 | 752 | 209.90 | 392 | 323.00 | 1972 |
| 73.00 | 676 | 142.90 | 637 | 211.10 | 1189 | 324.00 | 457 |
| 74.00 | 4852 | 145.30 | 226 | 214.80 | 279 | 325.10 | 173 |
| 75.00 | 7549 | 146.20 | 492 | 215.10 | 296 | 326.80 | 333 |
| 76.10 | 3270 | 146.90 | 1306 | 216.90 | 6436 | 327.20 | 289 |
| 77.00 | 47920 | 147.90 | 2483 | 217.90 | 780 | 331.70 | 175 |
| 78.00 | 3344 | 149.00 | 955 | 219.90 | 235 | 333.00 | 166 |
| 79.00 | 3474 | 150.00 | 325 | 221.00 | 5315 | 334.10 | 1562 |
| 80.00 | 3034 | 150.80 | 262 | 223.20 | 1501 | 334.90 | 515 |
| 81.00 | 3543 | 151.80 | 511 | 224.00 | 11742 | 341.00 | 366 |
| 81.90 | 759 | 152.90 | 1136 | 225.00 | 3239 | 345.90 | 332 |
| 83.00 | 937 | 153.90 | 729 | 226.90 | 5130 | 346.90 | 201 |
| 84.00 | 694 | 155.00 | 1641 | 227.90 | 670 | 352.00 | 619 |
| 85.00 | 757 | 155.90 | 2323 | 229.10 | 907 | 353.10 | 363 |
| 85.90 | 1537 | 156.90 | 473 | 230.00 | 171 | 354.00 | 747 |
| 87.10 | 628 | 157.50 | 357 | 230.80 | 448 | 354.90 | 181 |
| 87.90 | 290 | 158.10 | 446 | 233.90 | 367 | 364.90 | 2865 |
| 91.00 | 752 | 159.10 | 255 | 234.80 | 418 | 366.00 | 596 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 92.00 | 1120 | 160.10 | 791 | 235.80 | 320 | 371.10 | 157 |
| 93.00 | 5998 | 161.00 | 1270 | 237.00 | 638 | 371.90 | 1090 |
| 93.90 | 472 | 162.10 | 560 | 239.00 | 160 | 373.00 | 364 |
| 94.80 | 206 | 164.10 | 292 | 240.90 | 418 | 382.90 | 327 |
| 95.30 | 166 | 164.90 | 998 | 241.90 | 667 | 389.90 | 169 |
| 96.20 | 201 | 166.00 | 936 | 244.00 | 10143 | 401.90 | 444 |
| 98.00 | 3929 | 167.00 | 5087 | 245.00 | 1755 | 402.80 | 465 |
| 99.00 | 3297 | 167.90 | 2306 | 246.00 | 2183 | 404.20 | 236 |
| 100.10 | 390 | 169.00 | 440 | 246.90 | 376 | 421.00 | 951 |
| 101.00 | 1760 | 169.90 | 220 | 248.80 | 242 | 422.10 | 650 |
| 101.90 | 162 | 170.90 | 266 | 252.70 | 242 | 423.00 | 3839 |
| 102.90 | 760 | 171.80 | 374 | 253.20 | 250 | 423.90 | 967 |
| 104.00 | 1164 | 173.00 | 554 | 255.00 | 52192 | 425.40 | 163 |
| 105.00 | 1064 | 173.90 | 1121 | 256.00 | 8141 | 439.00 | 166 |
| 107.00 | 13426 | 175.00 | 1634 | 257.00 | 581 | 441.00 | 9298 |
| 108.00 | 2438 | 176.90 | 1238 | 258.00 | 2723 | 442.00 | 63880 |
| 110.00 | 30328 | 177.80 | 378 | 258.90 | 516 | 442.90 | 12577 |
| 111.00 | 4146 | 178.90 | 3635 | 265.10 | 1081 | 444.00 | 1136 |
| 111.90 | 796 | 180.00 | 2258 | 265.90 | 293 | | |
| 113.10 | 192 | 181.00 | 788 | 271.20 | 160 | | |

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16002.D
Lab Smp Id: DFTPP  Client Smp ID: DFTPP
Inj Date : 16-DEC-2012 09:07
Operator : SCC  Inst ID: BSMSD.i
Smp Info : DFTPP-1462727
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\d-dftpp442.m
Meth Date : 05-Dec-2012 11:04 cantins  Quant Type: ESTD
Cal Date :  Cal File:
Als bottle: 2  QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version: 4.14  Sample Matrix: None
Processing Host: TAM1000

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 8.563 | 8.574 | -0.011 | 442 | 107624 | | | 50.00- 0.00 | 100.00 |
| 8.563 | 8.574 | -0.011 | 51 | 34576 | | | 10.00- 80.00 | 32.13 |
| 8.563 | 8.574 | -0.011 | 68 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.563 | 8.574 | -0.011 | 69 | 36672 | | | 0.00- 0.00 | 34.07 |
| 8.563 | 8.574 | -0.011 | 70 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.563 | 8.574 | -0.011 | 127 | 44880 | | | 10.00- 80.00 | 41.70 |
| 8.563 | 8.574 | -0.011 | 197 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.563 | 8.574 | -0.011 | 198 | 107352 | | | 50.00- 0.00 | 99.75 |
| 8.563 | 8.574 | -0.011 | 199 | 7276 | | | 5.00- 9.00 | 6.78 |
| 8.563 | 8.574 | -0.011 | 275 | 33888 | | | 10.00- 60.00 | 31.49 |
| 8.563 | 8.574 | -0.011 | 365 | 4077 | | | 1.00- 0.00 | 3.79 |
| 8.563 | 8.574 | -0.011 | 441 | 16392 | | | 0.01- 99.99 | 76.94 |
| 8.563 | 8.574 | -0.011 | 443 | 21304 | | | 15.00- 24.00 | 19.79 |

Data File: 1DL16002.D

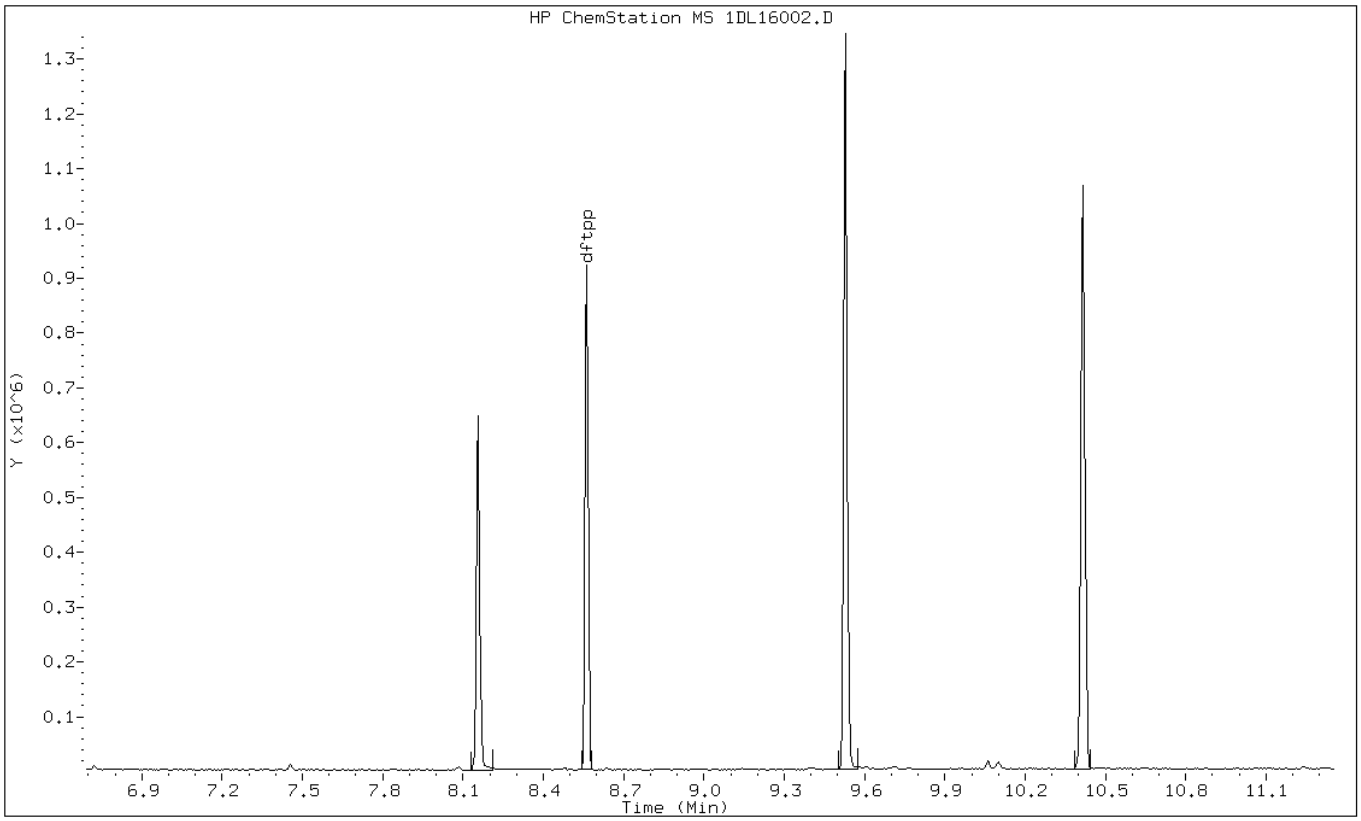
Date: 16-DEC-2012 09:07

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1462727

Operator: SCC



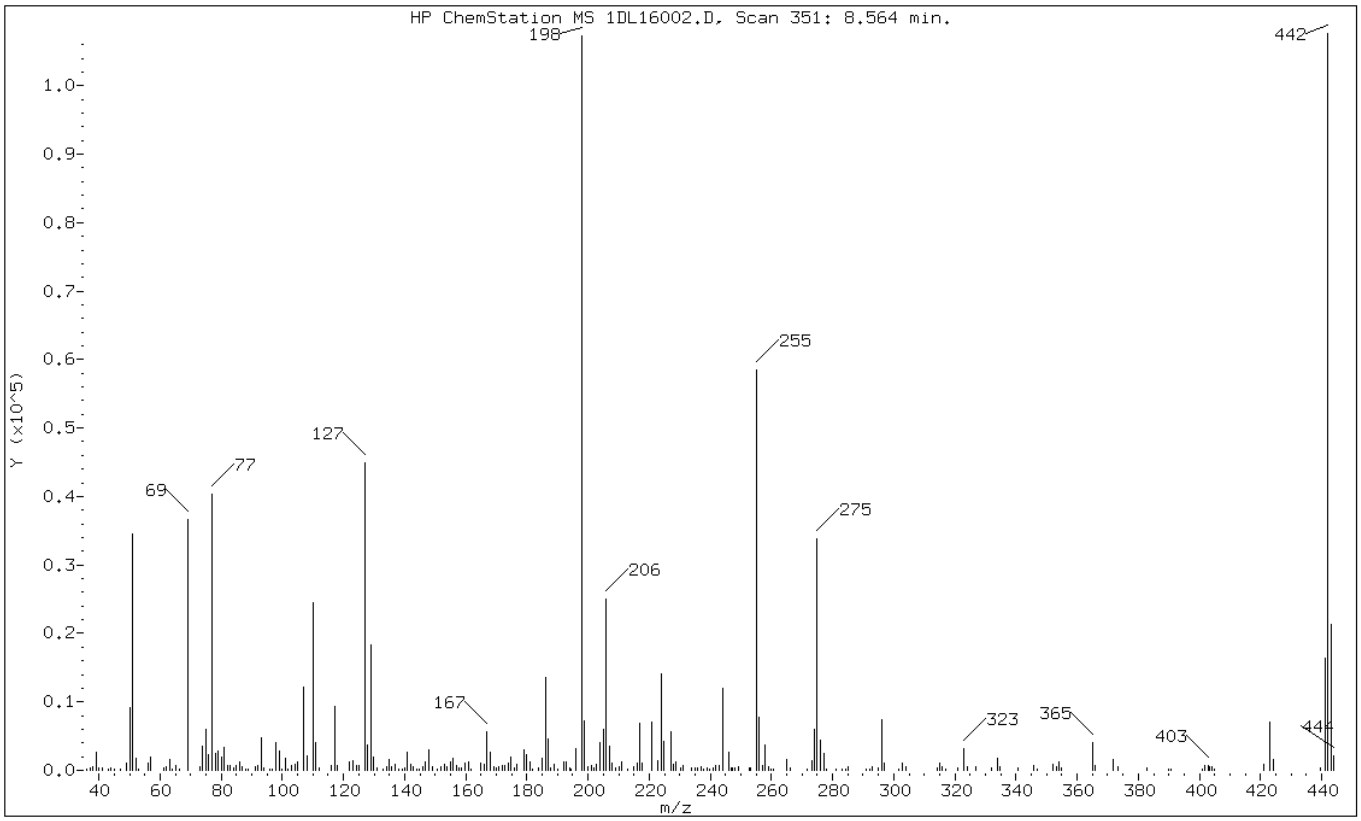
Data File: 1DL16002.D

Date: 16-DEC-2012 09:07

Client ID: DFTPP  Instrument: BSMSD.i

Sample Info: DFTPP-1462727  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 442 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 442 | 32.13 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Mass 69 relative abundance | 34.07 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 442 | 41.70 |
| 197 | Less than 2.00% of mass 198 | 0.00 ( 0.00) |
| 198 | Greater than 50.00% of mass 442 | 99.75 |
| 199 | 5.00 - 9.00% of mass 198 | 6.76 ( 6.78) |
| 275 | 10.00 - 60.00% of mass 442 | 31.49 |
| 365 | Greater than 1.00% of mass 442 | 3.79 |
| 441 | Present, but less than mass 443 | 15.23 |
| 443 | 15.00 - 24.00% of mass 442 | 19.79 |

Data File: 1DL16002.D

Date: 16-DEC-2012 09:07

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1462727 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16002.D
Spectrum: HP ChemStation MS 1DL16002.D, Scan 351: 8.564 min.
Location of Maximum: 442.00
Number of points: 246

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 197 | 117.00 | 9328 | 187.90 | 339 | 266.00 | 413 |
| 37.10 | 343 | 117.90 | 792 | 188.90 | 903 | 271.70 | 256 |
| 38.00 | 539 | 121.90 | 1186 | 190.10 | 157 | 273.10 | 1477 |
| 39.00 | 2665 | 123.00 | 1477 | 191.90 | 1247 | 274.10 | 5994 |
| 40.10 | 280 | 124.10 | 617 | 193.00 | 1230 | 275.00 | 33888 |
| 41.00 | 302 | 124.90 | 716 | 194.00 | 315 | 276.00 | 4362 |
| 43.10 | 173 | 127.00 | 44880 | 194.50 | 203 | 277.00 | 2443 |
| 44.00 | 439 | 128.00 | 3708 | 196.00 | 3191 | 277.90 | 236 |
| 45.10 | 165 | 129.00 | 18304 | 197.90 | 107352 | 281.10 | 164 |
| 47.10 | 215 | 129.90 | 1904 | 198.90 | 7276 | 283.20 | 205 |
| 49.10 | 1077 | 130.90 | 322 | 200.10 | 457 | 284.10 | 173 |
| 50.00 | 9168 | 132.80 | 184 | 201.30 | 690 | 284.90 | 541 |
| 51.00 | 34576 | 133.10 | 159 | 202.00 | 431 | 290.90 | 191 |
| 52.10 | 1746 | 134.00 | 453 | 202.90 | 839 | 292.00 | 183 |
| 52.90 | 170 | 134.90 | 1544 | 204.00 | 3965 | 293.00 | 587 |
| 56.10 | 1084 | 135.90 | 538 | 204.90 | 5969 | 295.00 | 284 |
| 57.00 | 1904 | 137.00 | 808 | 206.00 | 24984 | 296.00 | 7411 |
| 61.10 | 419 | 138.10 | 180 | 207.00 | 3478 | 296.90 | 1062 |
| 62.00 | 574 | 139.30 | 194 | 208.00 | 985 | 301.80 | 151 |
| 63.10 | 1665 | 139.90 | 375 | 209.10 | 435 | 303.00 | 1143 |
| 63.90 | 229 | 140.90 | 2586 | 210.10 | 521 | 303.80 | 457 |
| 65.20 | 636 | 142.00 | 918 | 211.00 | 1173 | 314.10 | 382 |
| 66.30 | 152 | 142.90 | 459 | 213.00 | 170 | 314.90 | 1064 |
| 69.00 | 36672 | 144.00 | 153 | 215.00 | 469 | 315.90 | 567 |
| 72.90 | 445 | 144.90 | 227 | 216.00 | 980 | 317.10 | 186 |
| 74.00 | 3603 | 146.00 | 470 | 216.90 | 6844 | 320.90 | 404 |
| 75.00 | 6025 | 146.90 | 1217 | 217.80 | 1034 | 323.00 | 3085 |
| 76.00 | 2303 | 147.90 | 2924 | 220.90 | 6989 | 323.90 | 614 |
| 77.00 | 40376 | 149.20 | 544 | 222.90 | 1451 | 326.90 | 530 |
| 78.00 | 2444 | 150.80 | 177 | 224.00 | 14139 | 332.00 | 284 |
| 79.00 | 2838 | 151.90 | 553 | 224.90 | 4209 | 334.00 | 1683 |
| 80.00 | 1915 | 152.90 | 868 | 227.00 | 5698 | 334.80 | 487 |
| 81.00 | 3279 | 153.90 | 533 | 227.90 | 963 | 340.80 | 329 |
| 82.00 | 702 | 155.00 | 1173 | 228.70 | 1163 | 345.90 | 756 |
| 83.00 | 725 | 156.00 | 1724 | 230.10 | 268 | 347.00 | 197 |
| 83.90 | 414 | 157.00 | 626 | 230.90 | 650 | 352.00 | 829 |
| 85.00 | 776 | 157.80 | 359 | 233.90 | 317 | 353.30 | 579 |
| 86.00 | 1169 | 158.60 | 330 | 234.90 | 343 | 354.00 | 1235 |
| 87.00 | 605 | 159.90 | 978 | 236.00 | 288 | 354.90 | 399 |
| 87.90 | 162 | 160.90 | 1152 | 237.00 | 568 | 365.00 | 4077 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 89.00 | 175 | 161.80 | 245 | 237.70 | 154 | 365.90 | 755 |
| 91.10 | 608 | 164.90 | 969 | 239.10 | 270 | 371.90 | 1573 |
| 92.00 | 709 | 165.90 | 830 | 239.90 | 229 | 373.20 | 510 |
| 93.00 | 4709 | 167.00 | 5599 | 241.00 | 376 | 382.90 | 334 |
| 94.00 | 338 | 168.00 | 2726 | 241.90 | 665 | 389.80 | 221 |
| 96.00 | 254 | 169.10 | 491 | 242.90 | 707 | 390.70 | 213 |
| 96.50 | 189 | 170.00 | 313 | 244.00 | 11916 | 401.00 | 154 |
| 96.80 | 199 | 170.90 | 445 | 245.90 | 2604 | 401.80 | 695 |
| 98.00 | 3973 | 172.10 | 632 | 246.80 | 418 | 402.80 | 736 |
| 99.00 | 2784 | 172.90 | 660 | 247.10 | 373 | 403.30 | 560 |
| 100.00 | 189 | 173.90 | 1056 | 247.90 | 363 | 404.10 | 466 |
| 101.00 | 1690 | 174.90 | 1888 | 249.20 | 448 | 404.90 | 155 |
| 101.90 | 260 | 176.00 | 395 | 252.80 | 380 | 420.90 | 921 |
| 103.00 | 674 | 176.80 | 918 | 253.30 | 276 | 423.00 | 6986 |
| 104.20 | 953 | 178.90 | 3014 | 255.00 | 58456 | 424.00 | 1644 |
| 105.00 | 1159 | 179.90 | 2275 | 256.00 | 7818 | 439.70 | 346 |
| 107.00 | 12218 | 181.00 | 1164 | 256.90 | 643 | 441.00 | 16392 |
| 108.00 | 2192 | 181.80 | 194 | 258.00 | 3758 | 442.00 | 107624 |
| 110.00 | 24432 | 183.90 | 325 | 259.00 | 556 | 443.00 | 21304 |
| 110.90 | 3996 | 185.00 | 1736 | 259.80 | 179 | 443.90 | 2063 |
| 111.90 | 280 | 186.00 | 13500 | 260.80 | 192 | | |
| 115.90 | 742 | 187.00 | 4559 | 264.90 | 1601 | | |

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121912.b\1DL19002.D
Lab Smp Id: DFTPP  Client Smp ID: DFTPP
Inj Date : 19-DEC-2012 10:29
Operator : SCC  Inst ID: BSMSD.i
Smp Info : DFTPP-1462727
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121912.b\d-dftpp442.m
Meth Date : 05-Dec-2012 11:04 cantins  Quant Type: ESTD
Cal Date :  Cal File:
Als bottle: 2  QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: all.sub
Target Version: 4.14  Sample Matrix: None
Processing Host: TAM1000

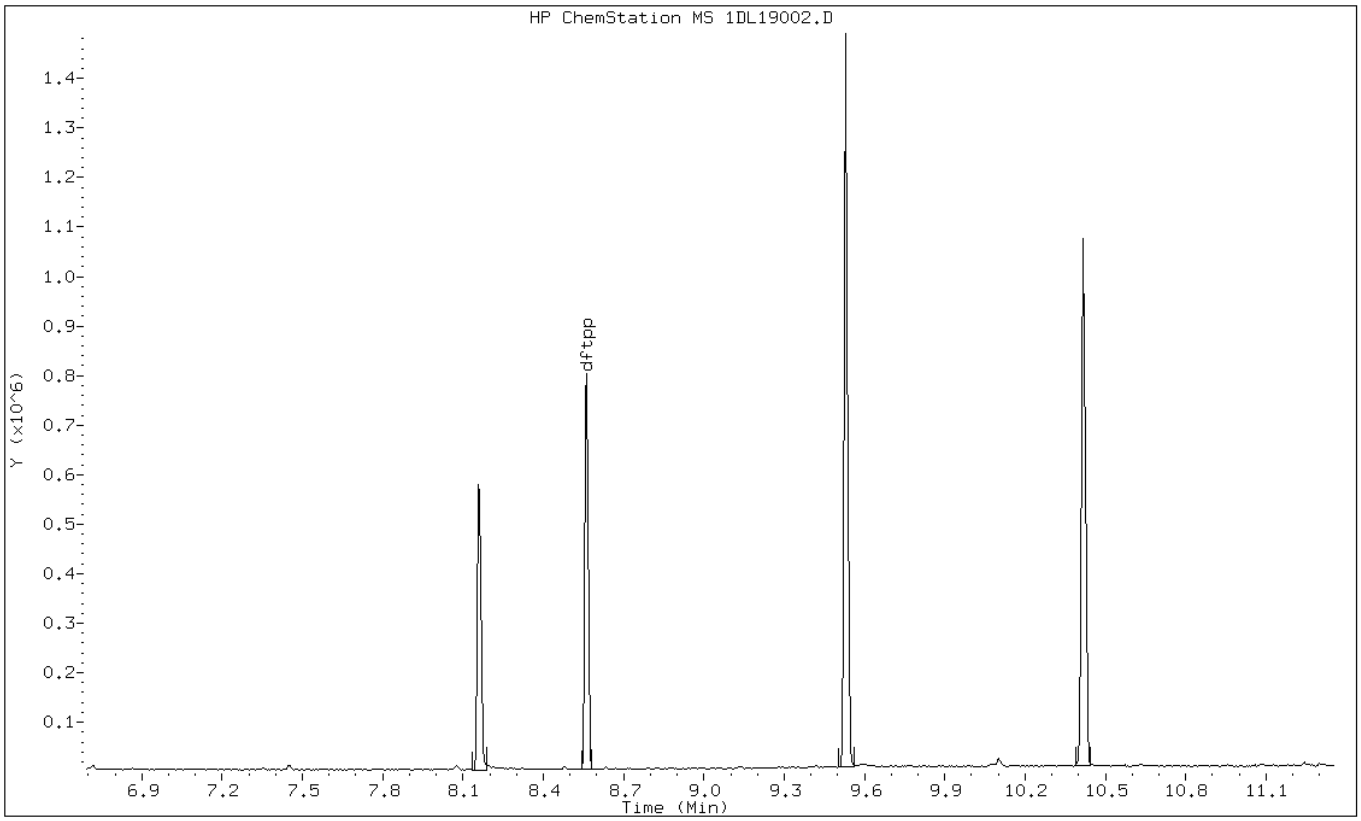
| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 dftpp | | | | | | CAS #: 5074-71-5 | | |
| 8.563 | 8.574 | -0.011 | 442 | 97576 | | | 50.00- 0.00 | 100.00 |
| 8.563 | 8.574 | -0.011 | 51 | 28408 | | | 10.00- 80.00 | 29.11 |
| 8.563 | 8.574 | -0.011 | 68 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.563 | 8.574 | -0.011 | 69 | 30480 | | | 0.00- 0.00 | 31.24 |
| 8.563 | 8.574 | -0.011 | 70 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.563 | 8.574 | -0.011 | 127 | 38888 | | | 10.00- 80.00 | 39.85 |
| 8.563 | 8.574 | -0.011 | 197 | 0 | 0.0 | 0.0 | 0.00- 2.00 | 0.00 |
| 8.563 | 8.574 | -0.011 | 198 | 91336 | | | 50.00- 0.00 | 93.60 |
| 8.563 | 8.574 | -0.011 | 199 | 6036 | | | 5.00- 9.00 | 6.61 |
| 8.563 | 8.574 | -0.011 | 275 | 26320 | | | 10.00- 60.00 | 26.97 |
| 8.563 | 8.574 | -0.011 | 365 | 4125 | | | 1.00- 0.00 | 4.23 |
| 8.563 | 8.574 | -0.011 | 441 | 15167 | | | 0.01- 99.99 | 82.68 |
| 8.563 | 8.574 | -0.011 | 443 | 18344 | | | 15.00- 24.00 | 18.80 |

Data File: 1DL19002.D

Date: 19-DEC-2012 10:29

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1462727 | Operator: SCC



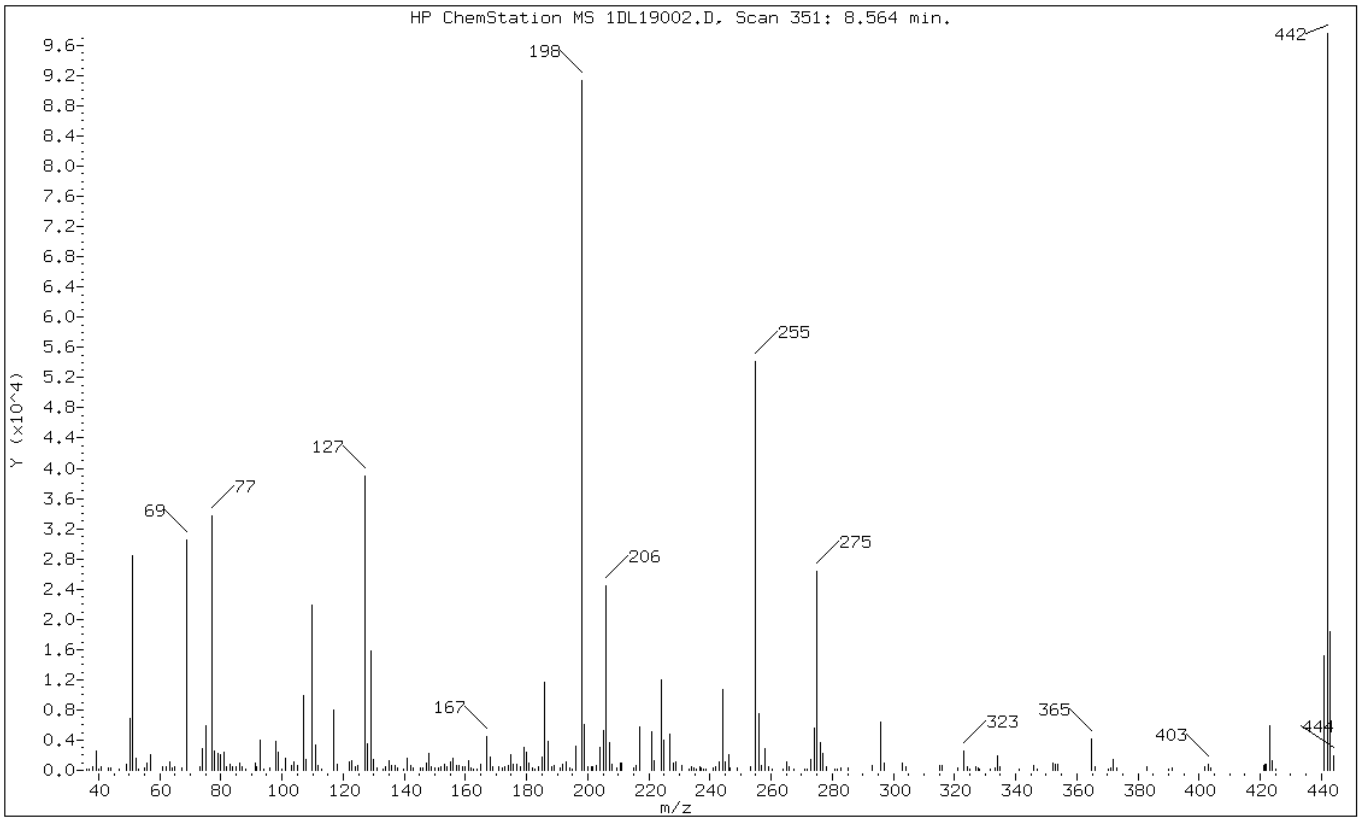
Data File: 1DL19002.D

Date: 19-DEC-2012 10:29

Client ID: DFTPP  Instrument: BSMSD.i

Sample Info: DFTPP-1462727  Operator: SCC

1 dftpp




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 442 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 442 | 29.11 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Mass 69 relative abundance | 31.24 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 442 | 39.85 |
| 197 | Less than 2.00% of mass 198 | 0.00 ( 0.00) |
| 198 | Greater than 50.00% of mass 442 | 93.60 |
| 199 | 5.00 - 9.00% of mass 198 | 6.19 ( 6.61) |
| 275 | 10.00 - 60.00% of mass 442 | 26.97 |
| 365 | Greater than 1.00% of mass 442 | 4.23 |
| 441 | Present, but less than mass 443 | 15.54 |
| 443 | 15.00 - 24.00% of mass 442 | 18.80 |

Data File: 1DL19002.D

Date: 19-DEC-2012 10:29

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1462727 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D121912.b\1DL19002.D
Spectrum: HP ChemStation MS 1DL19002.D, Scan 351: 8.564 min.
Location of Maximum: 442.00
Number of points: 238

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.10 | 185 | 121.90 | 1165 | 188.20 | 460 | 271.00 | 196 |
| 37.00 | 237 | 123.00 | 1318 | 188.90 | 685 | 271.80 | 199 |
| 38.10 | 458 | 124.10 | 414 | 191.00 | 330 | 273.00 | 1466 |
| 39.10 | 2548 | 124.90 | 606 | 191.80 | 834 | 274.00 | 5598 |
| 40.10 | 209 | 127.00 | 38888 | 193.00 | 1135 | 275.00 | 26320 |
| 41.00 | 446 | 127.90 | 3505 | 194.00 | 268 | 276.00 | 3675 |
| 43.00 | 333 | 129.00 | 15878 | 195.10 | 153 | 277.00 | 2175 |
| 43.90 | 356 | 129.90 | 1389 | 196.00 | 3127 | 278.00 | 444 |
| 46.90 | 163 | 131.10 | 266 | 197.90 | 91336 | 280.70 | 216 |
| 49.00 | 769 | 133.00 | 162 | 198.90 | 6036 | 281.70 | 194 |
| 50.10 | 6871 | 133.90 | 481 | 200.00 | 455 | 283.00 | 345 |
| 51.00 | 28408 | 135.00 | 1202 | 201.20 | 548 | 285.10 | 282 |
| 52.10 | 1570 | 136.00 | 561 | 201.80 | 552 | 292.90 | 685 |
| 53.20 | 177 | 137.10 | 694 | 202.90 | 631 | 295.90 | 6377 |
| 55.00 | 334 | 137.80 | 243 | 204.00 | 3083 | 297.00 | 1024 |
| 56.00 | 975 | 139.70 | 195 | 205.00 | 5217 | 303.00 | 939 |
| 57.00 | 2062 | 141.00 | 1557 | 206.00 | 24456 | 304.00 | 403 |
| 60.90 | 405 | 142.20 | 680 | 207.00 | 3657 | 315.00 | 699 |
| 62.00 | 465 | 143.00 | 346 | 207.90 | 862 | 316.00 | 675 |
| 63.10 | 1120 | 145.20 | 271 | 209.70 | 282 | 321.00 | 268 |
| 64.00 | 310 | 146.00 | 353 | 210.80 | 1012 | 323.00 | 2614 |
| 65.00 | 507 | 147.10 | 1005 | 211.20 | 1012 | 324.00 | 485 |
| 67.20 | 280 | 147.90 | 2226 | 214.90 | 390 | 324.90 | 159 |
| 69.00 | 30480 | 148.90 | 484 | 215.80 | 671 | 327.00 | 549 |
| 73.10 | 493 | 150.00 | 248 | 216.90 | 5738 | 327.80 | 287 |
| 74.00 | 2948 | 151.20 | 257 | 221.10 | 5169 | 328.20 | 207 |
| 75.00 | 5872 | 151.90 | 555 | 221.80 | 1237 | 331.80 | 177 |
| 77.10 | 33728 | 153.00 | 796 | 224.00 | 12049 | 333.10 | 278 |
| 78.00 | 2576 | 154.10 | 413 | 225.00 | 4004 | 333.90 | 1843 |
| 79.00 | 2224 | 155.00 | 1100 | 227.00 | 4808 | 335.00 | 500 |
| 80.00 | 1999 | 155.90 | 1623 | 228.00 | 896 | 341.00 | 237 |
| 81.00 | 2445 | 157.20 | 687 | 228.90 | 1150 | 345.90 | 629 |
| 81.90 | 551 | 157.90 | 648 | 230.90 | 587 | 347.20 | 197 |
| 82.90 | 755 | 158.90 | 425 | 233.00 | 227 | 352.00 | 1004 |
| 83.90 | 512 | 159.90 | 506 | 234.00 | 494 | 352.90 | 723 |
| 85.10 | 406 | 161.00 | 1229 | 234.90 | 348 | 353.90 | 817 |
| 86.00 | 945 | 161.80 | 330 | 235.60 | 193 | 364.90 | 4125 |
| 87.10 | 467 | 162.80 | 229 | 236.70 | 433 | 366.00 | 428 |
| 88.00 | 170 | 163.70 | 221 | 237.20 | 344 | 370.30 | 156 |
| 91.10 | 983 | 164.90 | 866 | 238.00 | 158 | 371.10 | 353 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 91.80 | 515 | 167.00 | 4454 | 238.80 | 216 | 371.90 | 1358 |
| 93.00 | 3924 | 168.00 | 1729 | 240.90 | 350 | 373.00 | 381 |
| 94.00 | 177 | 168.90 | 444 | 242.00 | 551 | 383.00 | 417 |
| 96.00 | 280 | 171.00 | 445 | 243.00 | 1169 | 389.90 | 181 |
| 98.00 | 3885 | 172.10 | 263 | 244.00 | 10687 | 391.20 | 257 |
| 98.90 | 2425 | 173.00 | 555 | 245.10 | 1048 | 402.00 | 534 |
| 99.90 | 236 | 174.10 | 677 | 246.00 | 2153 | 403.10 | 732 |
| 101.00 | 1593 | 175.00 | 2005 | 246.70 | 305 | 403.90 | 327 |
| 103.00 | 657 | 175.80 | 720 | 248.80 | 328 | 421.00 | 643 |
| 103.90 | 1122 | 176.90 | 807 | 253.20 | 427 | 421.40 | 752 |
| 105.00 | 616 | 177.80 | 420 | 255.00 | 54080 | 422.00 | 857 |
| 107.00 | 9914 | 179.00 | 2981 | 256.00 | 7456 | 423.00 | 5880 |
| 108.00 | 1432 | 179.90 | 2400 | 256.90 | 611 | 424.00 | 1227 |
| 109.90 | 21880 | 180.90 | 908 | 258.00 | 2800 | 425.00 | 164 |
| 111.00 | 3349 | 182.00 | 347 | 259.10 | 521 | 441.00 | 15167 |
| 111.80 | 646 | 182.90 | 169 | 260.30 | 156 | 442.00 | 97576 |
| 112.80 | 180 | 184.00 | 403 | 263.80 | 189 | 443.00 | 18344 |
| 113.00 | 187 | 185.10 | 1796 | 265.00 | 1157 | 444.00 | 1870 |
| 117.00 | 7910 | 186.00 | 11646 | 266.00 | 402 | | |
| 118.10 | 816 | 187.00 | 3911 | 267.40 | 155 | | |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-85534-2
SDG No.: 68085534-1
Client Sample ID:
Lab Sample ID: MB 660-132425/1-A
Matrix: Solid
Lab File ID: 1AL13005.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 12/12/2012 16:13
Sample wt/vol: 14.96(g)
Date Analyzed: 12/13/2012 11:58
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 132552
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 100 | U | 100 | 20 |
| 208-96-8 | Acenaphthylene | 40 | U | 40 | 5.0 |
| 120-12-7 | Anthracene | 8.4 | U | 8.4 | 4.2 |
| 56-55-3 | Benzo[a]anthracene | 8.0 | U | 8.0 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 10 | U | 10 | 5.2 |
| 205-99-2 | Benzo[b]fluoranthene | 12 | U | 12 | 6.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 20 | U | 20 | 4.4 |
| 207-08-9 | Benzo[k]fluoranthene | 8.0 | U | 8.0 | 3.6 |
| 218-01-9 | Chrysene | 9.0 | U | 9.0 | 4.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 20 | U | 20 | 4.1 |
| 206-44-0 | Fluoranthene | 20 | U | 20 | 4.0 |
| 86-73-7 | Fluorene | 20 | U | 20 | 4.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 20 | U | 20 | 7.1 |
| 90-12-0 | 1-Methylnaphthalene | 40 | U | 40 | 4.4 |
| 91-57-6 | 2-Methylnaphthalene | 40 | U | 40 | 7.1 |
| 91-20-3 | Naphthalene | 40 | U | 40 | 4.4 |
| 85-01-8 | Phenanthrene | 3.96 | J | 8.0 | 3.9 |
| 129-00-0 | Pyrene | 20 | U | 20 | 3.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 59 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\1AL13005.D
Lab Smp Id: mb 660-132425/1-a
Inj Date : 13-DEC-2012 11:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-132425/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\a-bFASTPAHi-m.m
Meth Date : 13-Dec-2012 11:33 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.960 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

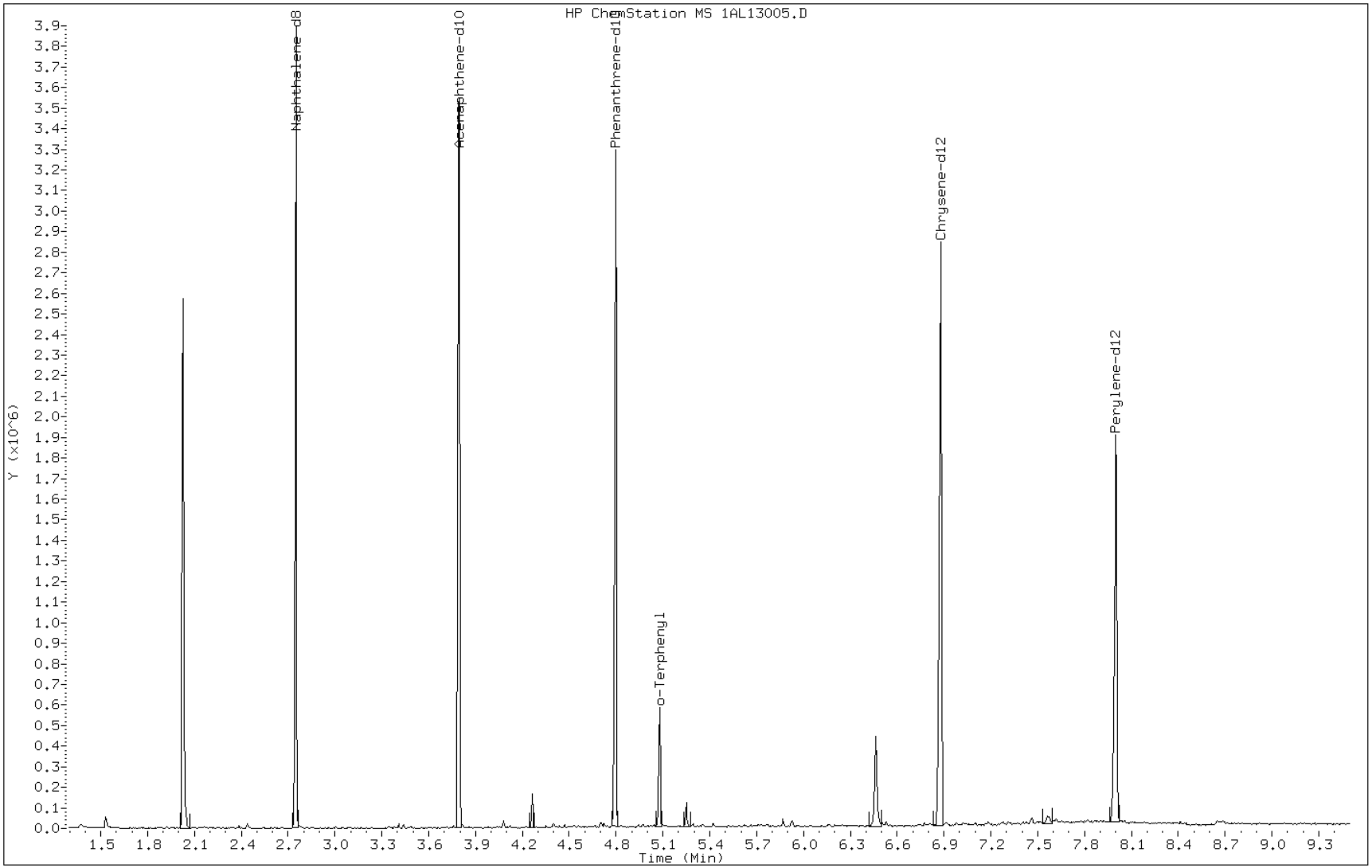
| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.749 | 2.752 | (1.000) | 1035142 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.797 | 3.794 | (1.000) | 672257 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.795 | 4.798 | (1.000) | 994961 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.079 | 5.081 | (1.059) | 87214 | 5.91174 | 395.1699 |
| * 18 Chrysene-d12 | 240 | 6.879 | 6.882 | (1.000) | 913977 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.001 | 7.998 | (1.000) | 876412 | 40.0000 | |
| 11 Phenanthrene | 178 | 4.812 | 4.814 | (1.003) | 1513 | 0.05920 | 3.9571 |

Data File: 1AL13005.D

Date: 13-DEC-2012 11:58

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-132425/1-a Operator: SCC



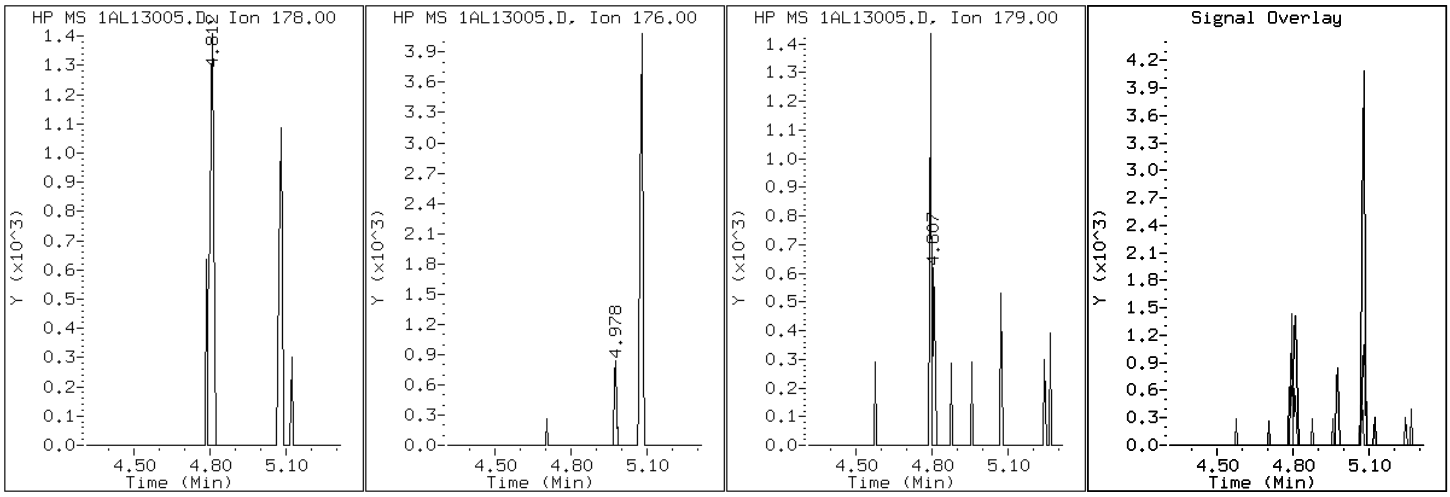
Data File: 1AL13005.D

Date: 13-DEC-2012 11:58

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-132425/1-a Operator: SCC

11 Phenanthrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-85534-2
SDG No.: 68085534-1
Client Sample ID:
Lab Sample ID: MB 660-132458/1-A
Matrix: Solid
Lab File ID: 1DL16006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 12/13/2012 13:19
Sample wt/vol: 15.03(g)
Date Analyzed: 12/16/2012 10:59
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 132553
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 100 | U | 100 | 20 |
| 208-96-8 | Acenaphthylene | 40 | U | 40 | 5.0 |
| 120-12-7 | Anthracene | 8.4 | U | 8.4 | 4.2 |
| 56-55-3 | Benzo[a]anthracene | 8.0 | U | 8.0 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 10 | U | 10 | 5.2 |
| 205-99-2 | Benzo[b]fluoranthene | 12 | U | 12 | 6.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 20 | U | 20 | 4.4 |
| 207-08-9 | Benzo[k]fluoranthene | 8.0 | U | 8.0 | 3.6 |
| 218-01-9 | Chrysene | 9.0 | U | 9.0 | 4.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 20 | U | 20 | 4.1 |
| 206-44-0 | Fluoranthene | 20 | U | 20 | 4.0 |
| 86-73-7 | Fluorene | 20 | U | 20 | 4.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 20 | U | 20 | 7.1 |
| 90-12-0 | 1-Methylnaphthalene | 40 | U | 40 | 4.4 |
| 91-57-6 | 2-Methylnaphthalene | 40 | U | 40 | 7.1 |
| 91-20-3 | Naphthalene | 40 | U | 40 | 4.4 |
| 85-01-8 | Phenanthrene | 8.0 | U | 8.0 | 3.9 |
| 129-00-0 | Pyrene | 20 | U | 20 | 3.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 56 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16006.D
Lab Smp Id: MB 660-132458/1-A
Inj Date  : 16-DEC-2012 10:59
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : MB 660-132458/1-A
Misc Info :
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 6  QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.030 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

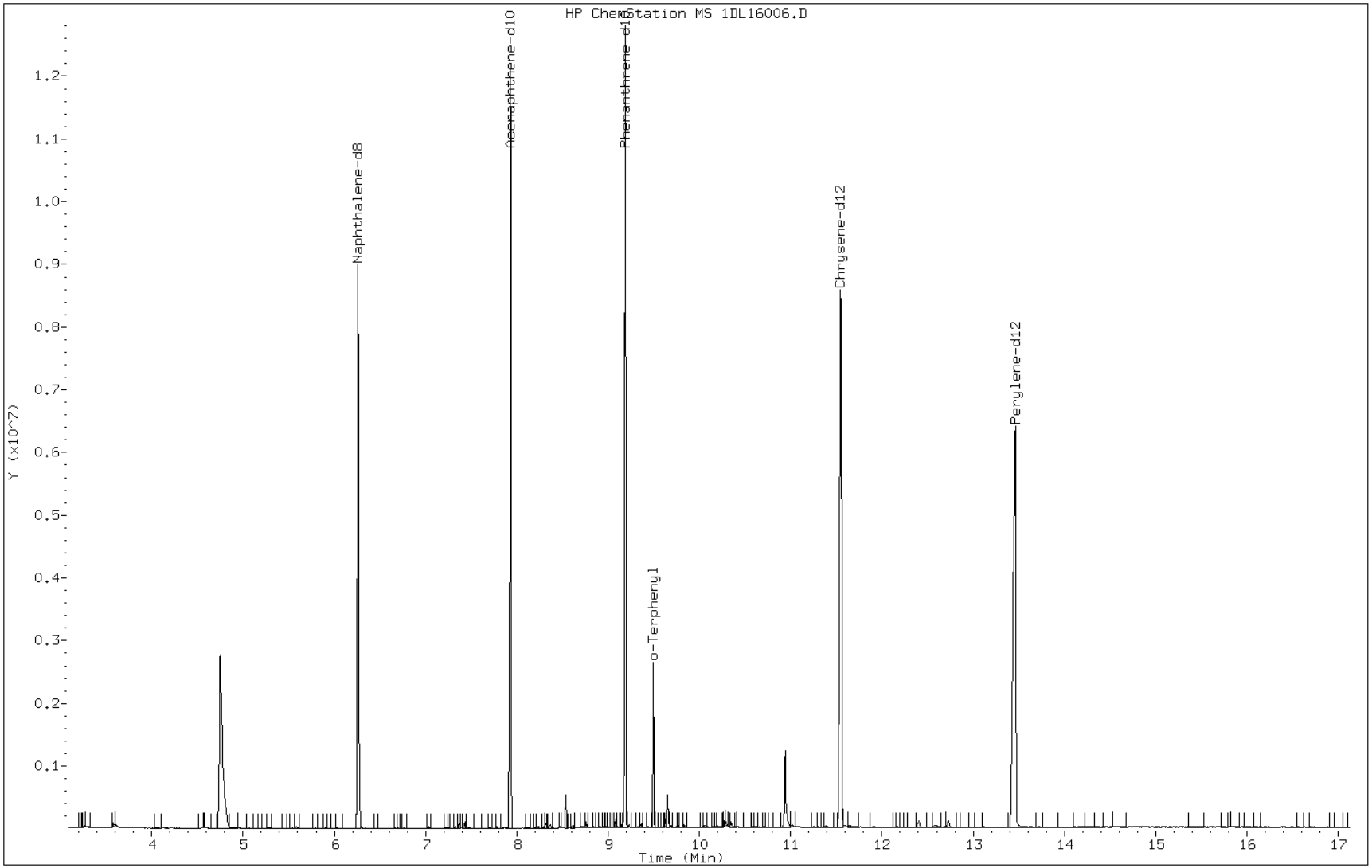
| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.260 | 6.265 | (1.000) | 4664972 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.929 | 7.934 | (1.000) | 2817446 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.192 | 9.191 | (1.000) | 4575818 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.497 | 9.503 | (1.033) | 400818 | 5.55358 | 370 |
| * 17 Chrysene-d12 | 240 | 11.554 | 11.553 | (1.000) | 4498824 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.463 | 13.463 | (1.000) | 4643347 | 40.0000 | |

Data File: 1DL16006.D

Date: 16-DEC-2012 10:59

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-132458/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: | Lab Sample ID: MB 660-132474/1-A

Matrix: Solid | Lab File ID: 1AL14005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 12/13/2012 17:33

Sample wt/vol: 15.02(g) | Date Analyzed: 12/14/2012 12:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132527 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 100 | U | 100 | 20 |
| 208-96-8 | Acenaphthylene | 40 | U | 40 | 5.0 |
| 120-12-7 | Anthracene | 8.4 | U | 8.4 | 4.2 |
| 56-55-3 | Benzo[a]anthracene | 8.0 | U | 8.0 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 10 | U | 10 | 5.2 |
| 205-99-2 | Benzo[b]fluoranthene | 12 | U | 12 | 6.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 20 | U | 20 | 4.4 |
| 207-08-9 | Benzo[k]fluoranthene | 8.0 | U | 8.0 | 3.6 |
| 218-01-9 | Chrysene | 9.0 | U | 9.0 | 4.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 20 | U | 20 | 4.1 |
| 206-44-0 | Fluoranthene | 20 | U | 20 | 4.0 |
| 86-73-7 | Fluorene | 20 | U | 20 | 4.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 20 | U | 20 | 7.1 |
| 90-12-0 | 1-Methylnaphthalene | 40 | U | 40 | 4.4 |
| 91-57-6 | 2-Methylnaphthalene | 40 | U | 40 | 7.1 |
| 91-20-3 | Naphthalene | 40 | U | 40 | 4.4 |
| 85-01-8 | Phenanthrene | 8.0 | U | 8.0 | 3.9 |
| 129-00-0 | Pyrene | 20 | U | 20 | 3.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 69 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14005.D
Lab Smp Id: mb 660-132474/1-a
Inj Date : 14-DEC-2012 12:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-132474/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\a-bFASTPAHi-m.m
Meth Date : 14-Dec-2012 12:27 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.020 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

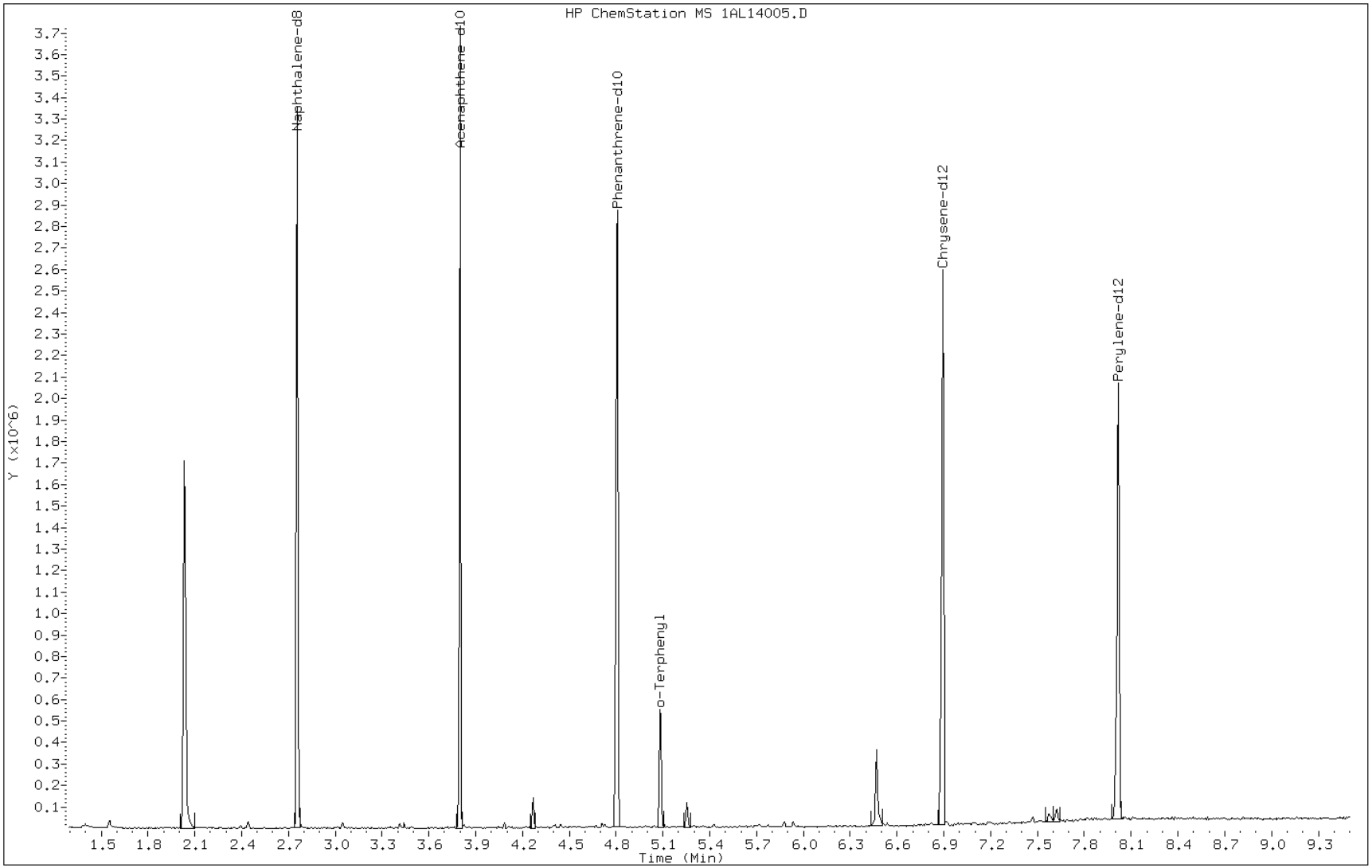
| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.757 | 2.757 | (1.000) | 943321 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.799 | 3.799 | (1.000) | 607698 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.809 | 4.809 | (1.000) | 905366 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.087 | 5.086 | (1.058) | 91963 | 6.85053 | 456.0939 |
| * 18 Chrysene-d12 | 240 | 6.892 | 6.897 | (1.000) | 861630 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.019 | 8.025 | (1.000) | 863640 | 40.0000 | |

Data File: 1AL14005.D

Date: 14-DEC-2012 12:45

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-132474/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-85534-2
SDG No.: 68085534-1
Client Sample ID:
Lab Sample ID: LCS 660-132425/2-A
Matrix: Solid
Lab File ID: 1AL13006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 12/12/2012 16:13
Sample wt/vol: 14.98(g)
Date Analyzed: 12/13/2012 12:13
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 132552
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 499 | | 100 | 20 |
| 208-96-8 | Acenaphthylene | 487 | | 40 | 5.0 |
| 120-12-7 | Anthracene | 543 | | 8.4 | 4.2 |
| 56-55-3 | Benzo[a]anthracene | 583 | | 8.0 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 495 | | 10 | 5.2 |
| 205-99-2 | Benzo[b]fluoranthene | 621 | | 12 | 6.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 359 | | 20 | 4.4 |
| 207-08-9 | Benzo[k]fluoranthene | 496 | | 8.0 | 3.6 |
| 218-01-9 | Chrysene | 578 | | 9.0 | 4.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 430 | | 20 | 4.1 |
| 206-44-0 | Fluoranthene | 562 | | 20 | 4.0 |
| 86-73-7 | Fluorene | 517 | | 20 | 4.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 436 | | 20 | 7.1 |
| 90-12-0 | 1-Methylnaphthalene | 589 | | 40 | 4.4 |
| 91-57-6 | 2-Methylnaphthalene | 529 | | 40 | 7.1 |
| 91-20-3 | Naphthalene | 525 | | 40 | 4.4 |
| 85-01-8 | Phenanthrene | 525 | | 8.0 | 3.9 |
| 129-00-0 | Pyrene | 555 | | 20 | 3.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\1AL13006.D
Lab Smp Id: lcs 660-132425/2-a
Inj Date : 13-DEC-2012 12:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-132425/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121312.b\a-bFASTPAHi-m.m
Meth Date : 13-Dec-2012 11:33 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.980 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.750 | 2.752 | (1.000) | 785479 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.797 | 3.794 | (1.000) | 526424 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.796 | 4.798 | (1.000) | 780531 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.079 | 5.081 | (1.059) | 96501 | 8.33829 | 556.6281 |
| * 18 Chrysene-d12 | 240 | 6.879 | 6.882 | (1.000) | 739945 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 7.996 | 7.998 | (1.000) | 726194 | 40.0000 | |
| 2 Naphthalene | 128 | 2.760 | 2.763 | (1.004) | 148701 | 7.86225 | 524.8496 |
| 3 2-Methylnaphthalene | 141 | 3.166 | 3.169 | (1.152) | 85314 | 7.92787 | 529.2300 |
| 4 1-Methylnaphthalene | 142 | 3.225 | 3.228 | (1.173) | 99202 | 8.81976 | 588.7693 |
| 5 Acenaphthylene | 152 | 3.706 | 3.708 | (0.976) | 161740 | 7.29688 | 487.1080 |
| 7 Acenaphthene | 154 | 3.813 | 3.815 | (1.004) | 93205 | 7.47902 | 499.2670 |
| 9 Fluorene | 166 | 4.144 | 4.141 | (1.091) | 116972 | 7.74056 | 516.7260 |
| 11 Phenanthrene | 178 | 4.812 | 4.814 | (1.003) | 157574 | 7.85915 | 524.6427 |
| 12 Anthracene | 178 | 4.844 | 4.846 | (1.010) | 160368 | 8.13771 | 543.2385 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 4.988 | 4.990 | (1.040) | 141115 | 8.25751 | 551.2354 |
| 15 Fluoranthene | 202 | 5.704 | 5.712 | (1.189) | 177537 | 8.41958 | 562.0547 |
| 16 Pyrene | 202 | 5.880 | 5.888 | (0.855) | 181320 | 8.31642 | 555.1680 |
| 17 Benzo(a)anthracene | 228 | 6.868 | 6.866 | (0.998) | 172850 | 8.72961 | 582.7507 |
| 19 Chrysene | 228 | 6.895 | 6.898 | (1.002) | 166534 | 8.65921 | 578.0513 |
| 20 Benzo(b)fluoranthene | 252 | 7.702 | 7.704 | (0.963) | 178917 | 9.30085 | 620.8844 |
| 21 Benzo(k)fluoranthene | 252 | 7.718 | 7.726 | (0.965) | 155039 | 7.43269 | 496.1740 |
| 22 Benzo(a)pyrene | 252 | 7.937 | 7.945 | (0.993) | 136290 | 7.41828 | 495.2122 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.952 | 8.960 | (1.120) | 110409 | 6.53732 | 436.4031(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 8.973 | 8.981 | (1.122) | 97672 | 6.43962 | 429.8808 |
| 26 Benzo(g,h,i)perylene | 276 | 9.240 | 9.253 | (1.156) | 90682 | 5.37082 | 358.5330 |

QC Flag Legend

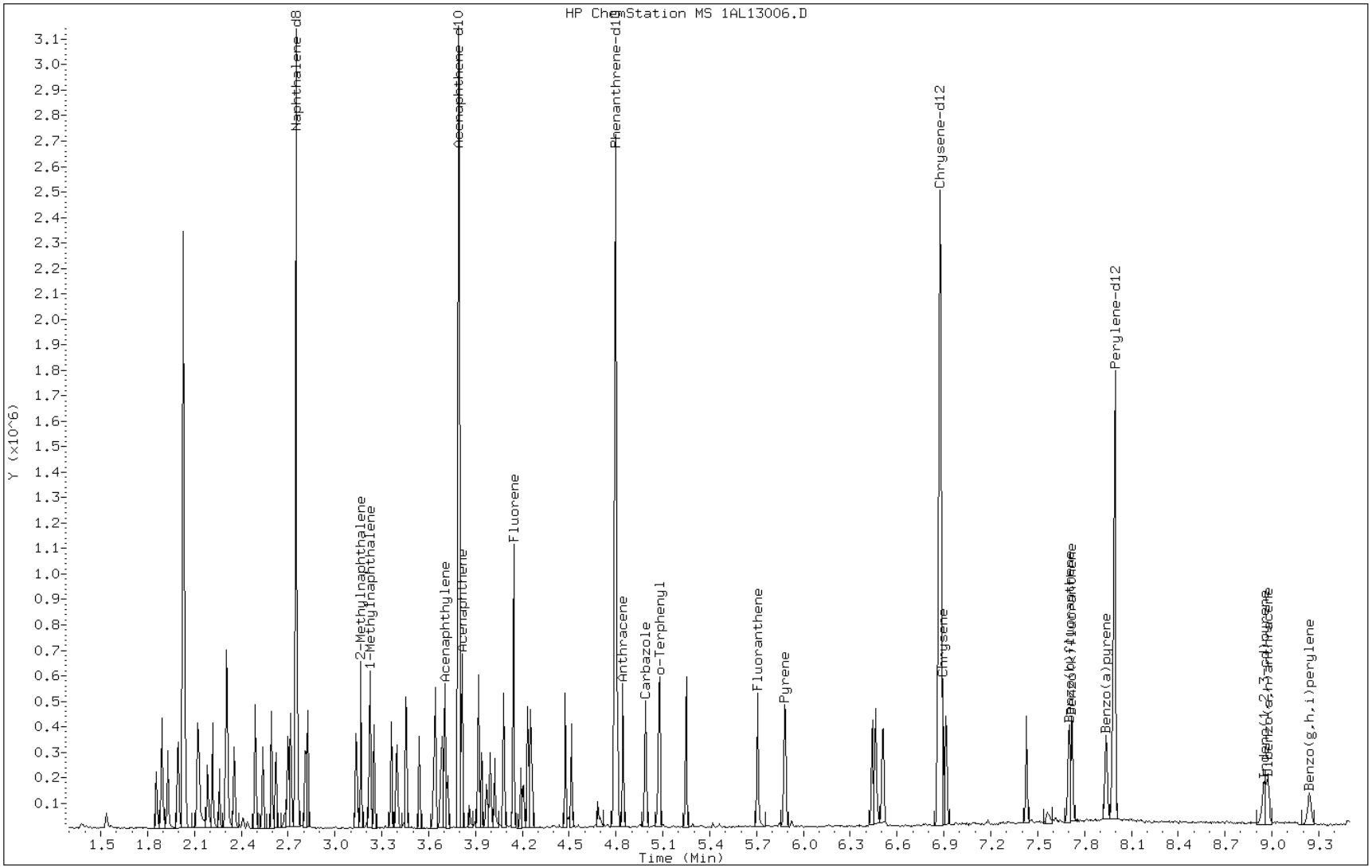
M - Compound response manually integrated.

Data File: 1AL13006.D

Date: 13-DEC-2012 12:13

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-132425/2-a Operator: SCC



Manual Integration Report

Data File: 1AL13006.D
Inj. Date and Time: 13-DEC-2012 12:13
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/17/2012

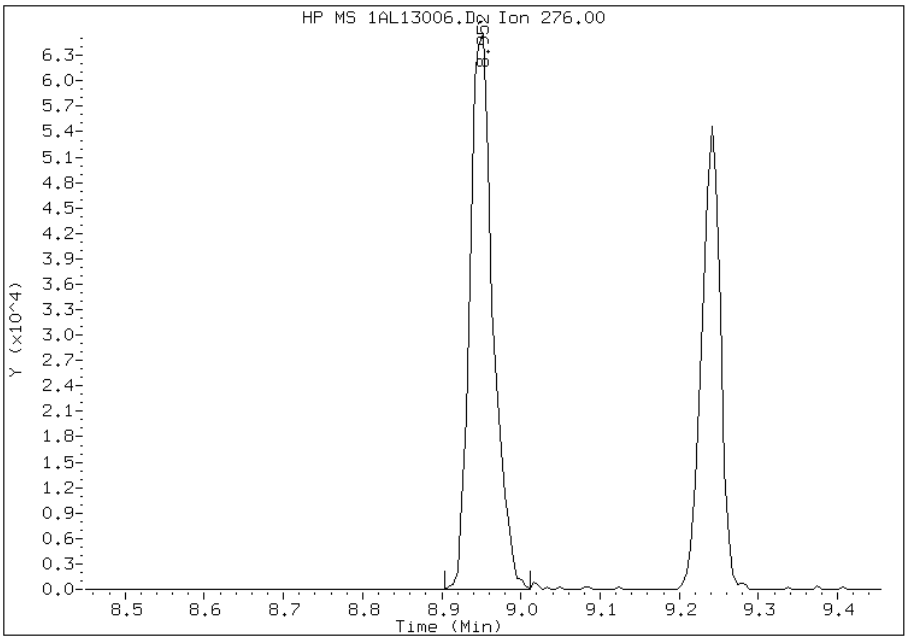
Processing Integration Results

RT: 8.95

Response: 132322

Amount: 8

Conc: 523



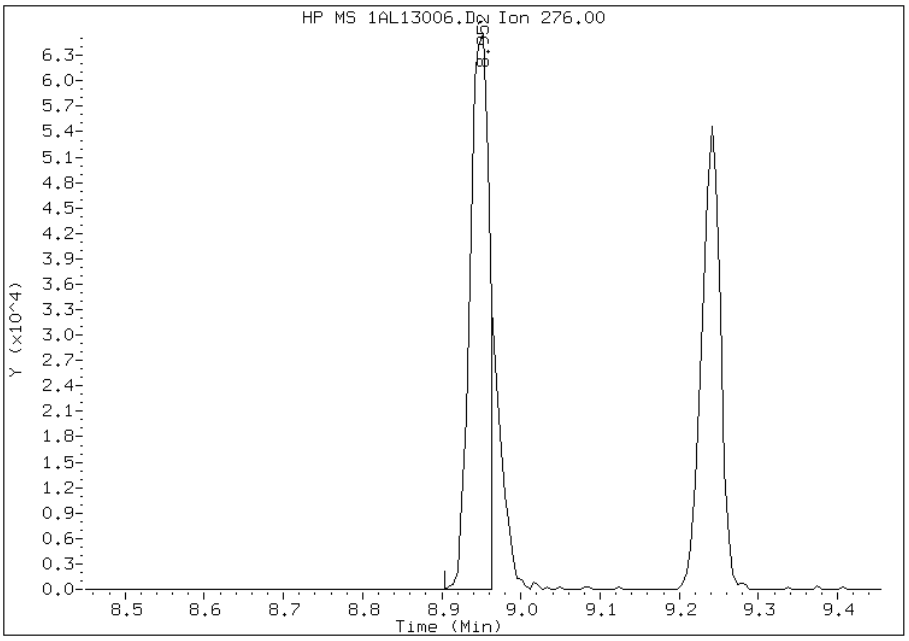

Manual Integration Results

RT: 8.95

Response: 110409

Amount: 7

Conc: 436




Manually Integrated By: cantins
Modification Date: 13-Dec-2012 13:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-85534-2
SDG No.: 68085534-1
Client Sample ID:
Lab Sample ID: LCS 660-132458/2-A
Matrix: Solid
Lab File ID: 1DL16007.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 12/13/2012 13:19
Sample wt/vol: 14.99(g)
Date Analyzed: 12/16/2012 11:22
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 132553
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 329 | | 100 | 20 |
| 208-96-8 | Acenaphthylene | 348 | | 40 | 5.0 |
| 120-12-7 | Anthracene | 352 | | 8.4 | 4.2 |
| 56-55-3 | Benzo[a]anthracene | 396 | | 8.0 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 352 | | 10 | 5.2 |
| 205-99-2 | Benzo[b]fluoranthene | 392 | | 12 | 6.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 381 | | 20 | 4.4 |
| 207-08-9 | Benzo[k]fluoranthene | 374 | | 8.0 | 3.6 |
| 218-01-9 | Chrysene | 375 | | 9.0 | 4.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 325 | | 20 | 4.1 |
| 206-44-0 | Fluoranthene | 374 | | 20 | 4.0 |
| 86-73-7 | Fluorene | 352 | | 20 | 4.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 380 | | 20 | 7.1 |
| 90-12-0 | 1-Methylnaphthalene | 343 | | 40 | 4.4 |
| 91-57-6 | 2-Methylnaphthalene | 338 | | 40 | 7.1 |
| 91-20-3 | Naphthalene | 334 | | 40 | 4.4 |
| 85-01-8 | Phenanthrene | 346 | | 8.0 | 3.9 |
| 129-00-0 | Pyrene | 353 | | 20 | 3.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 51 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16007.D
Lab Smp Id: LCS 660-132458/2-A
Inj Date  : 16-DEC-2012 11:22
Operator  : SCC  Inst ID: BSMSD.i
Smp Info  : LCS 660-132458/2-A
Misc Info :
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date  : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 7  QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version:  4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws  * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.990 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.258 | 6.265 | (1.000) | 4685887 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.932 | 7.934 | (1.000) | 2839807 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.189 | 9.191 | (1.000) | 4552176 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.495 | 9.503 | (1.033) | 362985 | 5.05550 | 340 |
| * 17 Chrysene-d12 | 240 | 11.551 | 11.553 | (1.000) | 4453697 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.461 | 13.463 | (1.000) | 4520602 | 40.0000 | |
| 2 Naphthalene | 128 | 6.281 | 6.283 | (1.004) | 609433 | 5.00879 | 330 |
| 3 2-Methylnaphthalene | 142 | 6.974 | 6.982 | (1.115) | 398526 | 5.07297 | 340 |
| 4 1-Methylnaphthalene | 142 | 7.068 | 7.076 | (1.130) | 382617 | 5.13738 | 340 |
| 5 Acenaphthylene | 152 | 7.797 | 7.805 | (0.983) | 646693 | 5.21321 | 350 |
| 7 Acenaphthene | 154 | 7.956 | 7.958 | (1.003) | 370350 | 4.92842 | 330 |
| 8 Fluorene | 166 | 8.396 | 8.398 | (1.059) | 467882 | 5.28246 | 350 |
| 10 Phenanthrene | 178 | 9.201 | 9.209 | (1.001) | 676414 | 5.19312 | 350 |
| 11 Anthracene | 178 | 9.242 | 9.250 | (1.006) | 689656 | 5.28136 | 350 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 12 Carbazole | 167 | 9.372 | 9.379 | (1.020) | 648173 | 5.60678 | 370(M) |
| 14 Fluoranthene | 202 | 10.182 | 10.190 | (1.108) | 738671 | 5.61129 | 370 |
| 15 Pyrene | 202 | 10.370 | 10.378 | (0.898) | 751009 | 5.28720 | 350 |
| 16 Benzo(a)anthracene | 228 | 11.522 | 11.530 | (0.997) | 714096 | 5.94109 | 400 |
| 18 Chrysene | 228 | 11.569 | 11.583 | (1.002) | 709346 | 5.62192 | 380 |
| 19 Benzo(b)fluoranthene | 252 | 12.879 | 12.893 | (0.957) | 651332 | 5.87024 | 390 |
| 20 Benzo(k)fluoranthene | 252 | 12.914 | 12.940 | (0.959) | 689520 | 5.60880 | 370 |
| 21 Benzo(a)pyrene | 252 | 13.343 | 13.363 | (0.991) | 584839 | 5.28268 | 350 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.082 | 15.114 | (1.120) | 622514 | 5.70108 | 380 |
| 24 Dibenzo(a,h)anthracene | 278 | 15.118 | 15.149 | (1.123) | 522135 | 4.87148 | 320 |
| 25 Benzo(g,h,i)perylene | 276 | 15.547 | 15.590 | (1.155) | 641904 | 5.71031 | 380 |

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DL16007.D

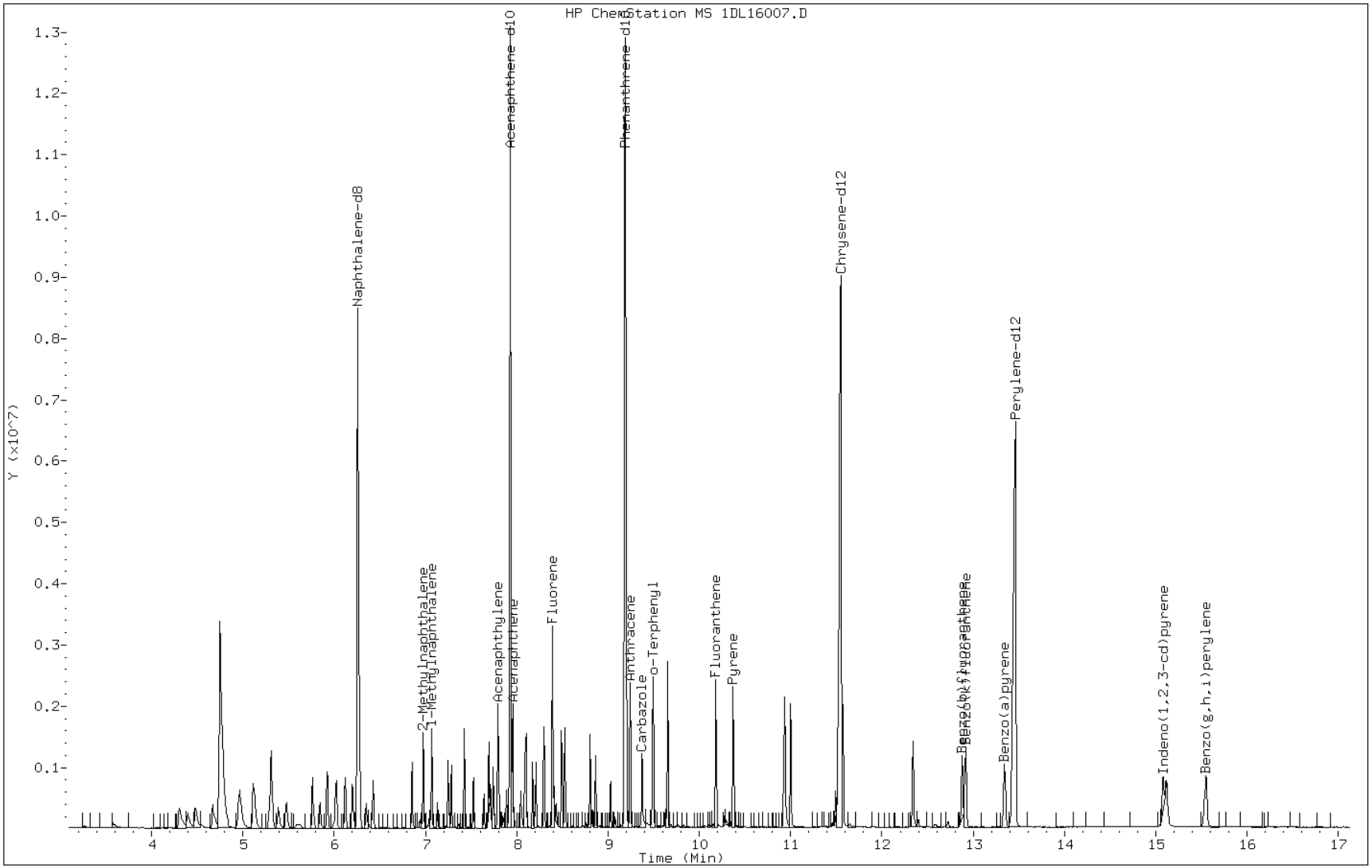
Date: 16-DEC-2012 11:22

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-132458/2-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-85534-2
SDG No.: 68085534-1
Client Sample ID:
Lab Sample ID: LCS 660-132474/2-A
Matrix: Solid
Lab File ID: 1AL14006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 12/13/2012 17:33
Sample wt/vol: 14.97(g)
Date Analyzed: 12/14/2012 13:00
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 132527
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 420 | | 100 | 20 |
| 208-96-8 | Acenaphthylene | 404 | | 40 | 5.0 |
| 120-12-7 | Anthracene | 457 | | 8.4 | 4.2 |
| 56-55-3 | Benzo[a]anthracene | 530 | | 8.0 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 432 | | 10 | 5.2 |
| 205-99-2 | Benzo[b]fluoranthene | 496 | | 12 | 6.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 499 | | 20 | 4.4 |
| 207-08-9 | Benzo[k]fluoranthene | 487 | | 8.0 | 3.6 |
| 218-01-9 | Chrysene | 520 | | 9.0 | 4.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 451 | | 20 | 4.1 |
| 206-44-0 | Fluoranthene | 516 | | 20 | 4.0 |
| 86-73-7 | Fluorene | 458 | | 20 | 4.1 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 471 | | 20 | 7.1 |
| 90-12-0 | 1-Methylnaphthalene | 495 | | 40 | 4.4 |
| 91-57-6 | 2-Methylnaphthalene | 463 | | 40 | 7.1 |
| 91-20-3 | Naphthalene | 454 | | 40 | 4.4 |
| 85-01-8 | Phenanthrene | 436 | | 8.0 | 3.9 |
| 129-00-0 | Pyrene | 458 | | 20 | 3.7 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 72 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14006.D
Lab Smp Id: lcs 660-132474/2-a
Inj Date : 14-DEC-2012 13:00
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-132474/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\a-bFASTPAHi-m.m
Meth Date : 14-Dec-2012 12:27 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.970 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.758 | 2.757 | (1.000) | 922328 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.799 | 3.799 | (1.000) | 618806 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.809 | 4.809 | (1.000) | 943949 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.081 | 5.086 | (1.057) | 101284 | 7.23648 | 483.3991 |
| * 18 Chrysene-d12 | 240 | 6.898 | 6.897 | (1.000) | 962915 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.020 | 8.025 | (1.000) | 945024 | 40.0000 | |
| 2 Naphthalene | 128 | 2.768 | 2.768 | (1.004) | 150836 | 6.79183 | 453.6963 |
| 3 2-Methylnaphthalene | 141 | 3.174 | 3.174 | (1.151) | 87603 | 6.93273 | 463.1080 |
| 4 1-Methylnaphthalene | 142 | 3.233 | 3.233 | (1.172) | 97930 | 7.41484 | 495.3129 |
| 5 Acenaphthylene | 152 | 3.714 | 3.714 | (0.978) | 157710 | 6.05285 | 404.3321 |
| 7 Acenaphthene | 154 | 3.821 | 3.820 | (1.006) | 92015 | 6.28124 | 419.5884 |
| 9 Fluorene | 166 | 4.152 | 4.152 | (1.093) | 121719 | 6.85220 | 457.7285 |
| 11 Phenanthrene | 178 | 4.820 | 4.825 | (1.002) | 158440 | 6.53427 | 436.4913 |
| 12 Anthracene | 178 | 4.857 | 4.857 | (1.010) | 162974 | 6.83824 | 456.7965 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 5.001 | 5.006 | (1.040) | 150890 | 7.30092 | 487.7037 |
| 15 Fluoranthene | 202 | 5.722 | 5.727 | (1.190) | 197119 | 7.72986 | 516.3567 |
| 16 Pyrene | 202 | 5.899 | 5.904 | (0.855) | 194541 | 6.85667 | 458.0273 |
| 17 Benzo(a)anthracene | 228 | 6.887 | 6.887 | (0.998) | 204365 | 7.93128 | 529.8116 |
| 19 Chrysene | 228 | 6.914 | 6.919 | (1.002) | 194861 | 7.78595 | 520.1036 |
| 20 Benzo(b)fluoranthene | 252 | 7.720 | 7.725 | (0.963) | 185826 | 7.42313 | 495.8673 |
| 21 Benzo(k)fluoranthene | 252 | 7.742 | 7.747 | (0.965) | 197829 | 7.28794 | 486.8362 |
| 22 Benzo(a)pyrene | 252 | 7.961 | 7.971 | (0.993) | 154727 | 6.47165 | 432.3080 |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 8.986 | 9.002 | (1.121) | 155047 | 7.05454 | 471.2448(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 9.008 | 9.024 | (1.123) | 133177 | 6.74728 | 450.7202 |
| 26 Benzo(g,h,i)perylene | 276 | 9.280 | 9.301 | (1.157) | 164030 | 7.46540 | 498.6906 |

QC Flag Legend

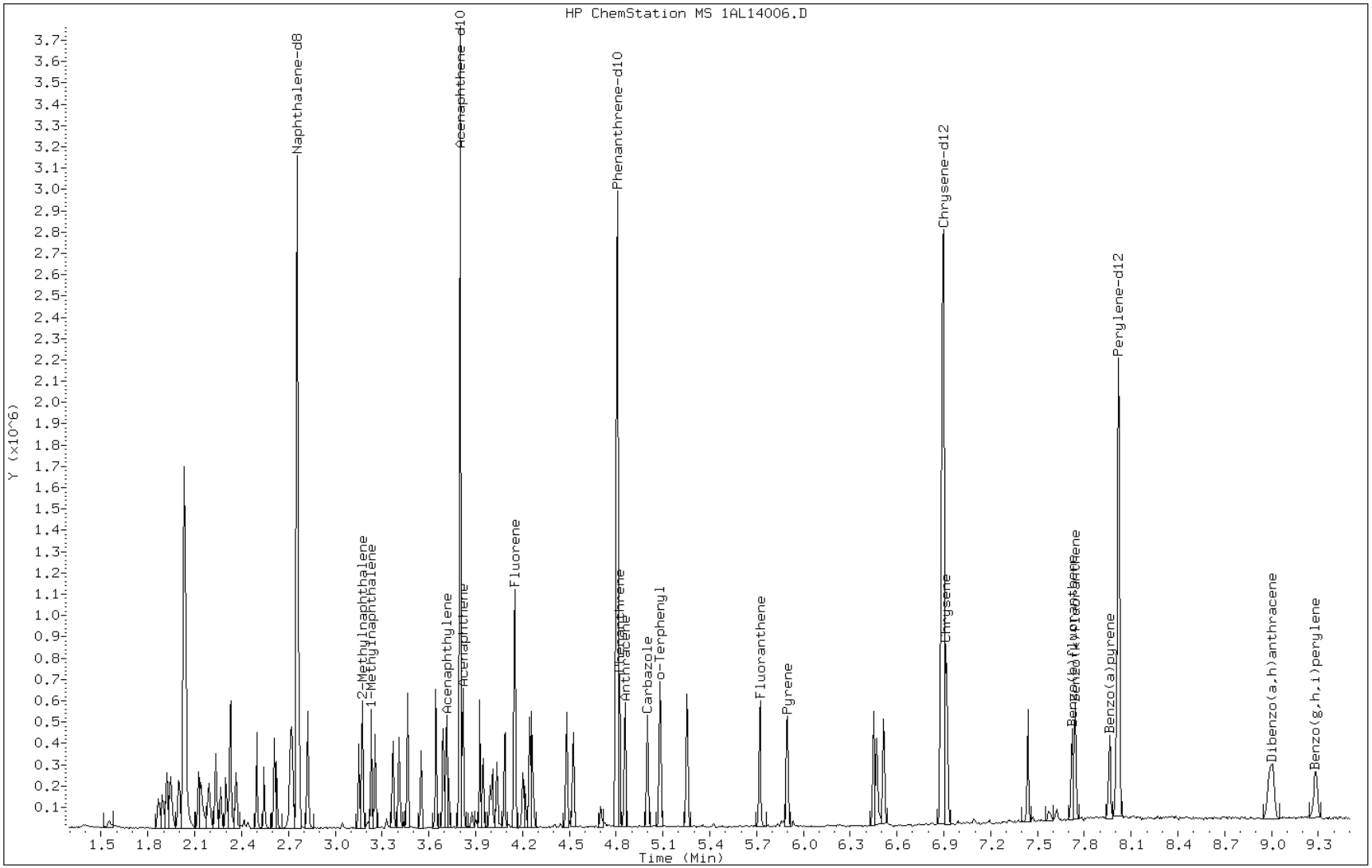
M - Compound response manually integrated.

Data File: 1AL14006.D

Date: 14-DEC-2012 13:00

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-132474/2-a Operator: SCC



Manual Integration Report

Data File: 1AL14006.D
Inj. Date and Time: 14-DEC-2012 13:00
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/14/2012

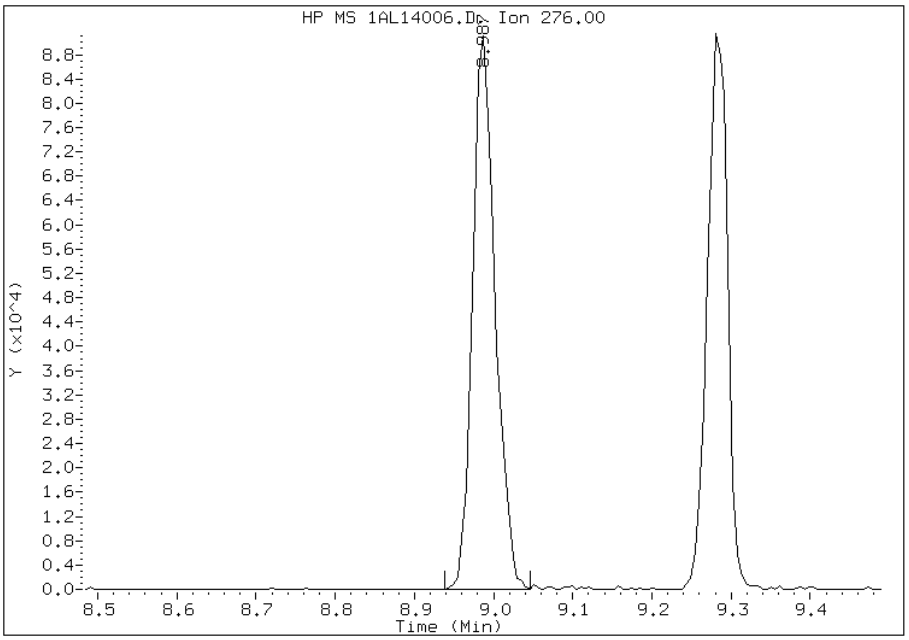
Processing Integration Results

RT: 8.99

Response: 178601

Amount: 8

Conc: 543



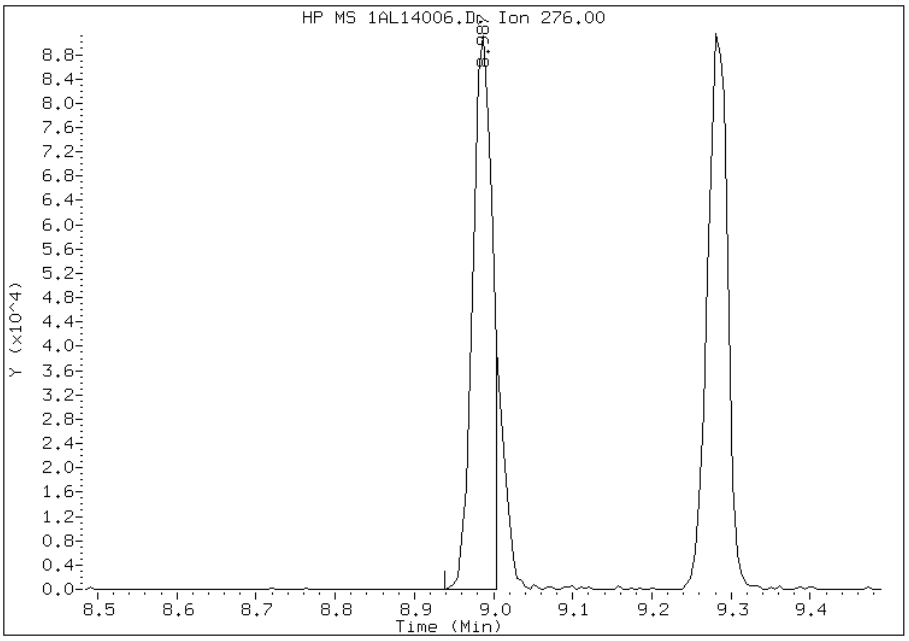

Manual Integration Results

RT: 8.99

Response: 155047

Amount: 7

Conc: 471




Manually Integrated By: cantins
Modification Date: 14-Dec-2012 13:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: HP0012B-CS MS | Lab Sample ID: 680-85534-5 MS

Matrix: Solid | Lab File ID: 1DL16010.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 11:45

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.00(g) | Date Analyzed: 12/16/2012 12:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 547 | | 120 | 24 |
| 208-96-8 | Acenaphthylene | 580 | | 49 | 6.1 |
| 120-12-7 | Anthracene | 598 | | 10 | 5.1 |
| 56-55-3 | Benzo[a]anthracene | 721 | | 9.8 | 4.8 |
| 50-32-8 | Benzo[a]pyrene | 645 | | 13 | 6.3 |
| 205-99-2 | Benzo[b]fluoranthene | 800 | | 15 | 7.4 |
| 191-24-2 | Benzo[g,h,i]perylene | 579 | | 24 | 5.4 |
| 207-08-9 | Benzo[k]fluoranthene | 663 | | 9.8 | 4.4 |
| 218-01-9 | Chrysene | 784 | | 11 | 5.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 511 | | 24 | 5.0 |
| 206-44-0 | Fluoranthene | 773 | | 24 | 4.9 |
| 86-73-7 | Fluorene | 581 | | 24 | 5.0 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 626 | | 24 | 8.7 |
| 90-12-0 | 1-Methylnaphthalene | 676 | | 49 | 5.4 |
| 91-57-6 | 2-Methylnaphthalene | 709 | | 49 | 8.7 |
| 91-20-3 | Naphthalene | 679 | | 49 | 5.4 |
| 85-01-8 | Phenanthrene | 765 | | 9.8 | 4.8 |
| 129-00-0 | Pyrene | 703 | | 24 | 4.5 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 67 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16010.D
Lab Smp Id: 680-85534-A-5-B MS
Inj Date : 16-DEC-2012 12:29
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-5-B MS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 10  QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.263 | 6.265 | (1.000) | 4122215 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.931 | 7.934 | (1.000) | 2444826 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.189 | 9.191 | (1.000) | 3967708 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.500 | 9.503 | (1.034) | 417380 | 6.66939 | 440 |
| * 17 Chrysene-d12 | 240 | 11.556 | 11.553 | (1.000) | 3789192 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.478 | 13.463 | (1.000) | 4065803 | 40.0000 | |
| 2 Naphthalene | 128 | 6.280 | 6.283 | (1.003) | 893643 | 8.34895 | 560 |
| 3 2-Methylnaphthalene | 142 | 6.979 | 6.982 | (1.114) | 602497 | 8.71810 | 580 |
| 4 1-Methylnaphthalene | 142 | 7.073 | 7.076 | (1.129) | 544837 | 8.31582 | 550 |
| 5 Acenaphthylene | 152 | 7.802 | 7.805 | (0.984) | 762688 | 7.14159 | 480 |
| 7 Acenaphthene | 154 | 7.955 | 7.958 | (1.003) | 435321 | 6.72893 | 450 |
| 8 Fluorene | 166 | 8.395 | 8.398 | (1.059) | 544908 | 7.14601 | 480 |
| 10 Phenanthrene | 178 | 9.206 | 9.209 | (1.002) | 1069179 | 9.41771 | 630 |
| 11 Anthracene | 178 | 9.247 | 9.250 | (1.006) | 837436 | 7.35774 | 490 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 12 Carbazole | 167 | 9.377 | 9.379 | (1.020) | 705585 | 7.00247 | 470(M) |
| 14 Fluoranthene | 202 | 10.187 | 10.190 | (1.109) | 1091415 | 9.51219 | 630 |
| 15 Pyrene | 202 | 10.375 | 10.378 | (0.898) | 1044757 | 8.64509 | 580 |
| 16 Benzo(a)anthracene | 228 | 11.539 | 11.530 | (0.998) | 906816 | 8.86752 | 590 |
| 18 Chrysene | 228 | 11.580 | 11.583 | (1.002) | 1036122 | 9.65188 | 640 |
| 19 Benzo(b)fluoranthene | 252 | 12.896 | 12.893 | (0.957) | 982614 | 9.84660 | 660 |
| 20 Benzo(k)fluoranthene | 252 | 12.937 | 12.940 | (0.960) | 901449 | 8.15294 | 540 |
| 21 Benzo(a)pyrene | 252 | 13.366 | 13.363 | (0.992) | 789751 | 7.93155 | 530 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.117 | 15.114 | (1.122) | 756359 | 7.70169 | 510(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.152 | 15.149 | (1.124) | 605807 | 6.28438 | 420 |
| 25 Benzo(g,h,i)perylene | 276 | 15.593 | 15.590 | (1.157) | 720632 | 7.12777 | 480 |

QC Flag Legend

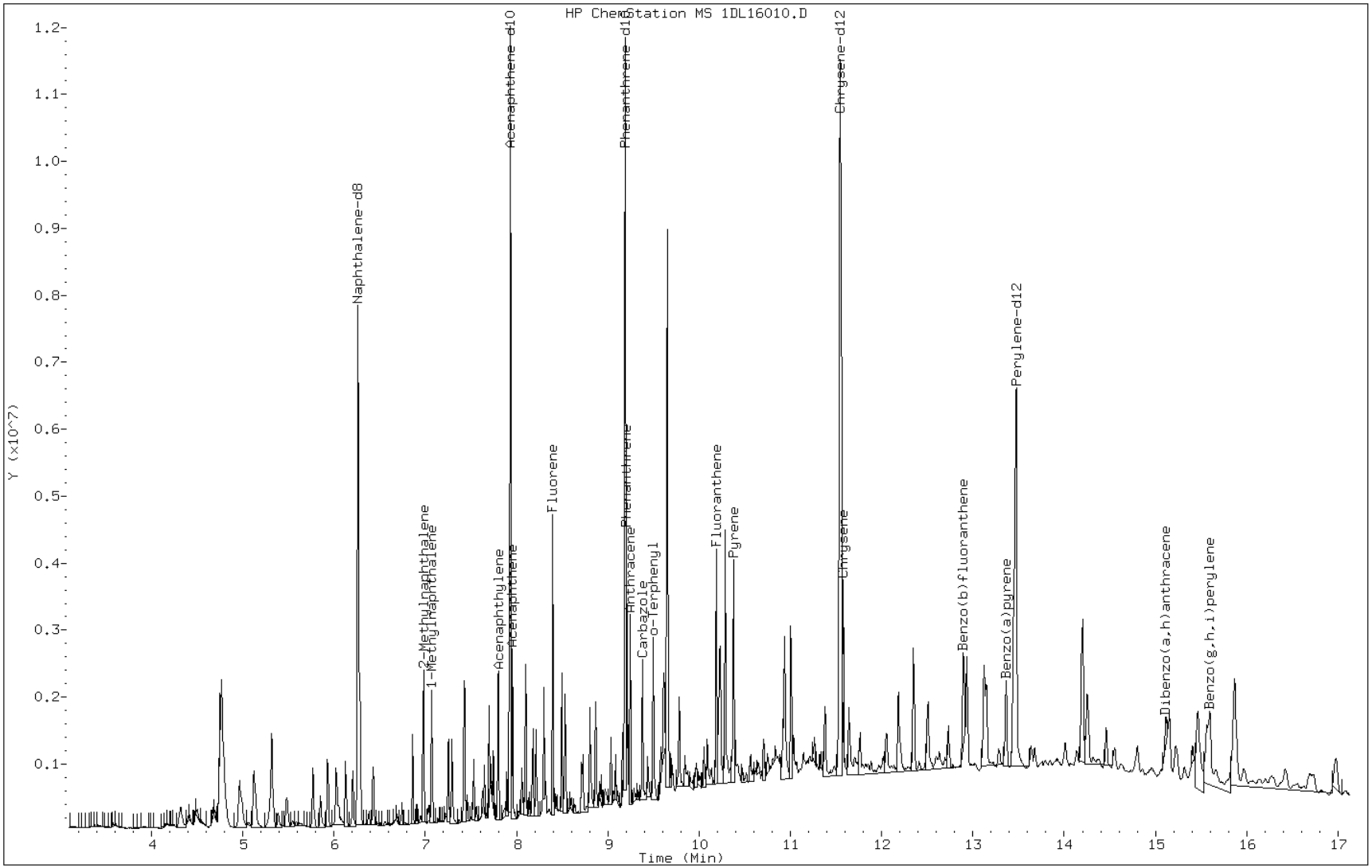
M - Compound response manually integrated.

Data File: 1DL16010.D

Date: 16-DEC-2012 12:29

Client ID: Instrument: BSMSD.i

Sample Info: 680-85534-A-5-B MS Operator: SCC



Manual Integration Report

Data File: 1DL16010.D
Inj. Date and Time: 16-DEC-2012 12:29
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/16/2012

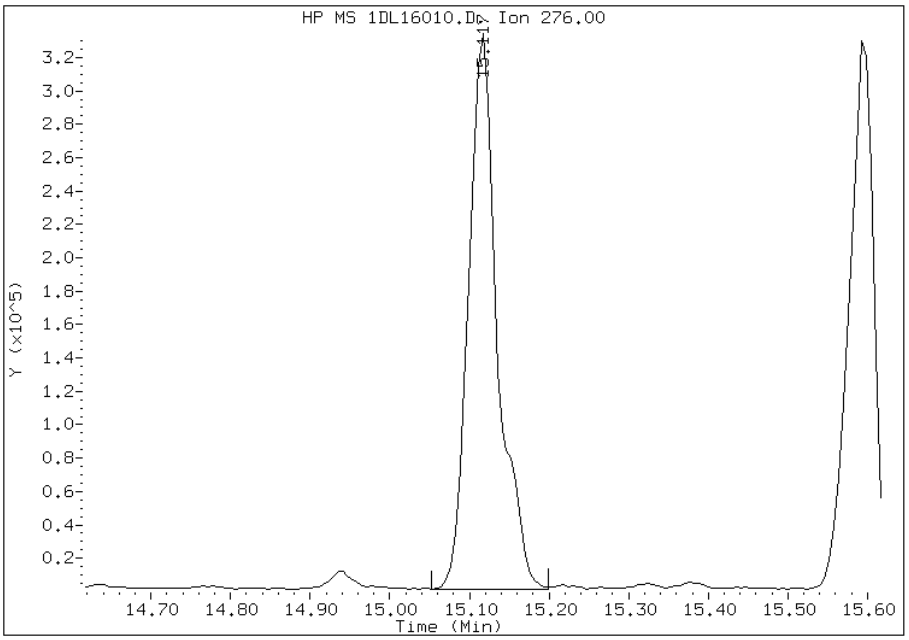
Processing Integration Results

RT: 15.12

Response: 834779

Amount: 9

Conc: 567



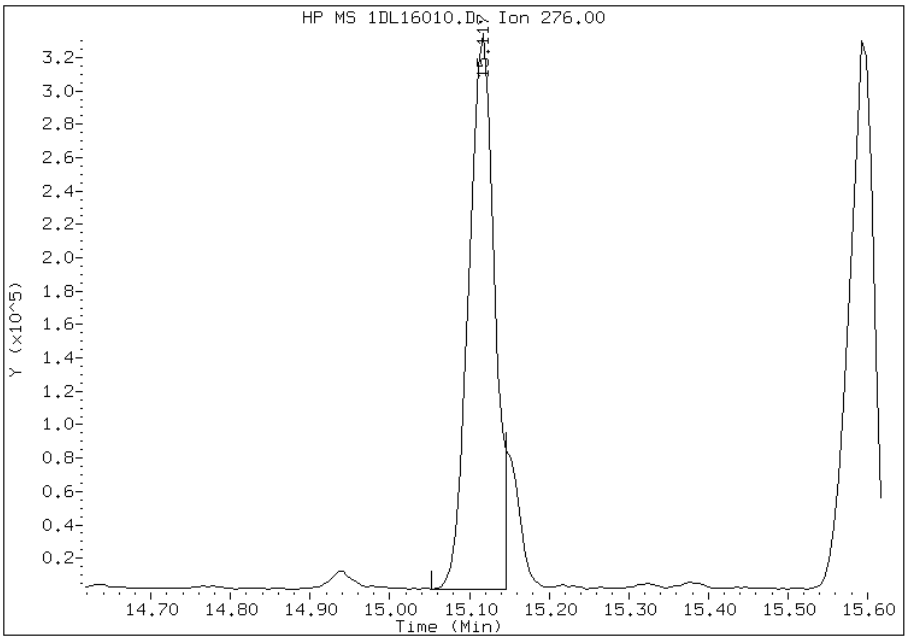

Manual Integration Results

RT: 15.12

Response: 756359

Amount: 8

Conc: 513




Manually Integrated By: cantins
Modification Date: 16-Dec-2012 13:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165A-CS MS | Lab Sample ID: 680-85534-18 MS

Matrix: Solid | Lab File ID: 1AL14011.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 08:58

Extract. Method: 3546 | Date Extracted: 12/13/2012 17:33

Sample wt/vol: 14.96(g) | Date Analyzed: 12/14/2012 14:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132527 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 369 | | 120 | 23 |
| 208-96-8 | Acenaphthylene | 360 | | 47 | 5.8 |
| 120-12-7 | Anthracene | 425 | | 9.8 | 4.9 |
| 56-55-3 | Benzo[a]anthracene | 480 | | 9.3 | 4.6 |
| 50-32-8 | Benzo[a]pyrene | 328 | | 12 | 6.1 |
| 205-99-2 | Benzo[b]fluoranthene | 376 | | 14 | 7.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 458 | | 23 | 5.1 |
| 207-08-9 | Benzo[k]fluoranthene | 368 | | 9.3 | 4.2 |
| 218-01-9 | Chrysene | 441 | | 11 | 5.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 388 | | 23 | 4.8 |
| 206-44-0 | Fluoranthene | 480 | | 23 | 4.7 |
| 86-73-7 | Fluorene | 391 | | 23 | 4.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 386 | | 23 | 8.3 |
| 90-12-0 | 1-Methylnaphthalene | 402 | | 47 | 5.1 |
| 91-57-6 | 2-Methylnaphthalene | 378 | | 47 | 8.3 |
| 91-20-3 | Naphthalene | 392 | | 47 | 5.1 |
| 85-01-8 | Phenanthrene | 393 | | 9.3 | 4.6 |
| 129-00-0 | Pyrene | 393 | | 23 | 4.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14011.D
Lab Smp Id: 680-85534-a-18-b ms
Inj Date : 14-DEC-2012 14:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-85534-a-18-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\a-bFASTPAHi-m.m
Meth Date : 14-Dec-2012 12:27 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.960 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.759 | 2.757 | (1.000) | 783611 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.806 | 3.799 | (1.000) | 493152 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.810 | 4.809 | (1.000) | 757179 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.088 | 5.086 | (1.058) | 63648 | 5.66920 | 378.9570 |
| * 18 Chrysene-d12 | 240 | 6.904 | 6.897 | (1.000) | 859671 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.037 | 8.025 | (1.000) | 461195 | 40.0000 | |
| 2 Naphthalene | 128 | 2.769 | 2.768 | (1.004) | 95043 | 5.03718 | 336.7095 |
| 3 2-Methylnaphthalene | 141 | 3.175 | 3.174 | (1.151) | 52106 | 4.85353 | 324.4338 |
| 4 1-Methylnaphthalene | 142 | 3.234 | 3.233 | (1.172) | 58005 | 5.16935 | 345.5448 |
| 5 Acenaphthylene | 152 | 3.715 | 3.714 | (0.976) | 96026 | 4.62449 | 309.1233 |
| 7 Acenaphthene | 154 | 3.822 | 3.820 | (1.004) | 55378 | 4.74349 | 317.0779 |
| 9 Fluorene | 166 | 4.153 | 4.152 | (1.091) | 71196 | 5.02922 | 336.1779 |
| 11 Phenanthrene | 178 | 4.826 | 4.825 | (1.003) | 98156 | 5.04661 | 337.3399 |
| 12 Anthracene | 178 | 4.858 | 4.857 | (1.010) | 104387 | 5.46038 | 364.9985 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 5.008 | 5.006 | (1.041) | 92642 | 5.58824 | 373.5456 |
| 15 Fluoranthene | 202 | 5.729 | 5.727 | (1.191) | 126277 | 6.17330 | 412.6537 |
| 16 Pyrene | 202 | 5.905 | 5.904 | (0.855) | 127825 | 5.04631 | 337.3198 |
| 17 Benzo(a)anthracene | 228 | 6.894 | 6.887 | (0.998) | 142026 | 6.17391 | 412.6945 |
| 19 Chrysene | 228 | 6.920 | 6.919 | (1.002) | 126612 | 5.66653 | 378.7788 |
| 20 Benzo(b)fluoranthene | 252 | 7.727 | 7.725 | (0.961) | 59015 | 4.83060 | 322.9013 |
| 21 Benzo(k)fluoranthene | 252 | 7.748 | 7.747 | (0.964) | 62659 | 4.72995 | 316.1730 |
| 22 Benzo(a)pyrene | 252 | 7.973 | 7.971 | (0.992) | 49230 | 4.21927 | 282.0366(R) |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 9.004 | 9.002 | (1.120) | 53234 | 4.96309 | 331.7575(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 9.025 | 9.024 | (1.123) | 47996 | 4.98268 | 333.0668 |
| 26 Benzo(g,h,i)perylene | 276 | 9.308 | 9.301 | (1.158) | 63052 | 5.88013 | 393.0567 |

QC Flag Legend

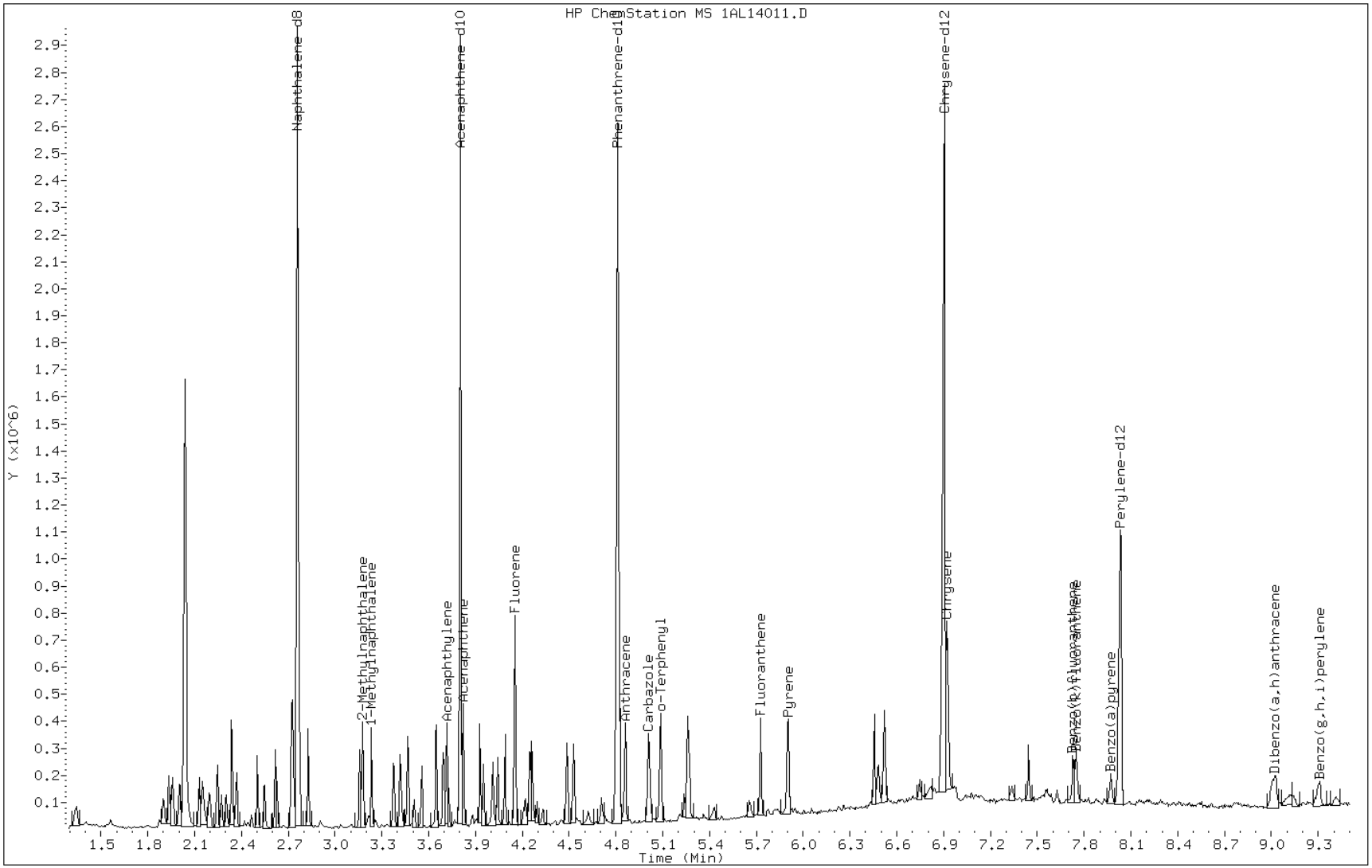
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AL14011.D

Date: 14-DEC-2012 14:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-b ms Operator: SCC



Manual Integration Report

Data File: 1AL14011.D
Inj. Date and Time: 14-DEC-2012 14:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/14/2012

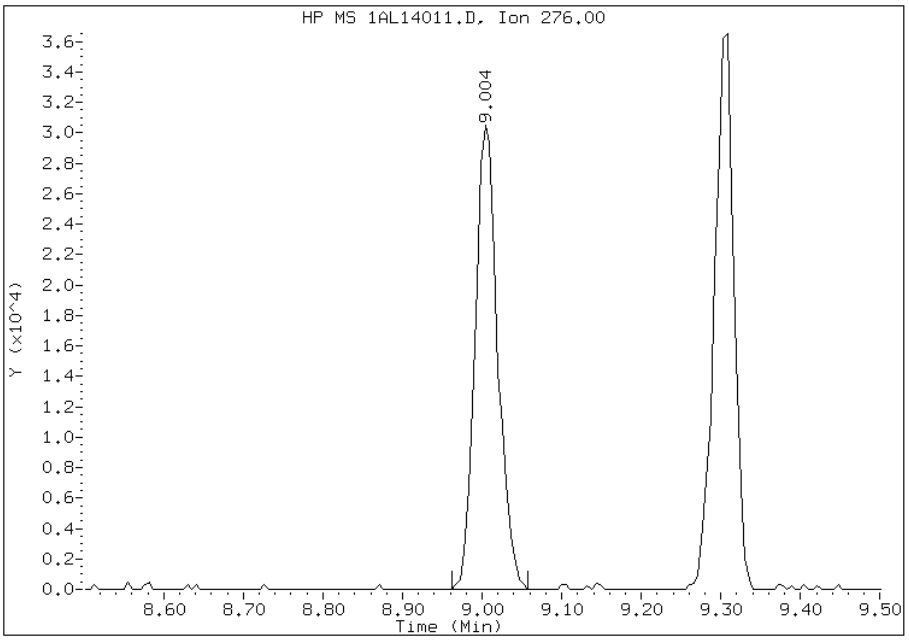
Processing Integration Results

RT: 9.00

Response: 61064

Amount: 6

Conc: 381



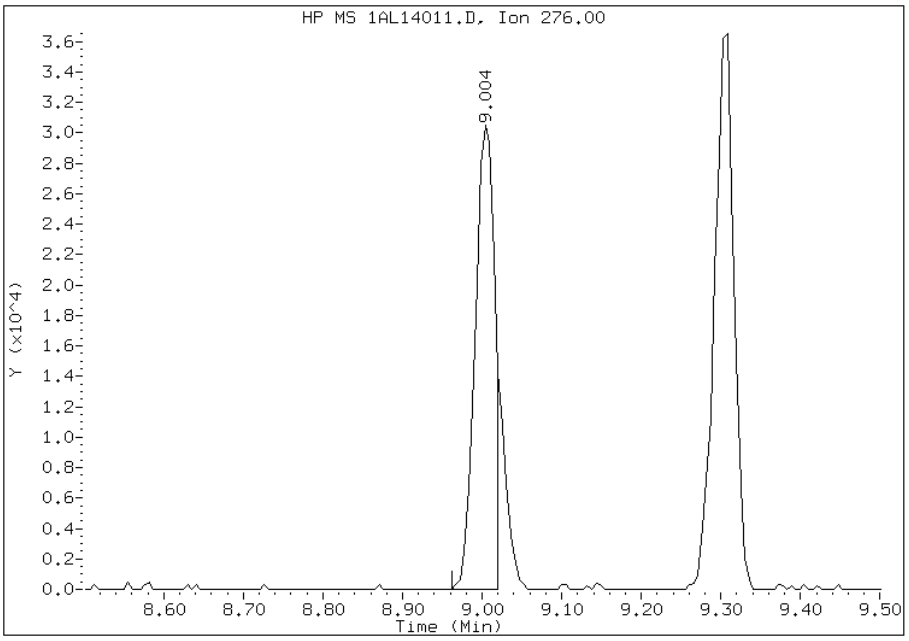

Manual Integration Results

RT: 9.00

Response: 53234

Amount: 5

Conc: 332




Manually Integrated By: cantins
Modification Date: 14-Dec-2012 15:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: HP0012B-CS MSD | Lab Sample ID: 680-85534-5 MSD

Matrix: Solid | Lab File ID: 1DL16011.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 11:45

Extract. Method: 3546 | Date Extracted: 12/13/2012 13:19

Sample wt/vol: 15.00(g) | Date Analyzed: 12/16/2012 12:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132553 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 383 | | 120 | 24 |
| 208-96-8 | Acenaphthylene | 409 | | 49 | 6.1 |
| 120-12-7 | Anthracene | 405 | | 10 | 5.1 |
| 56-55-3 | Benzo[a]anthracene | 474 | | 9.8 | 4.8 |
| 50-32-8 | Benzo[a]pyrene | 433 | | 13 | 6.3 |
| 205-99-2 | Benzo[b]fluoranthene | 563 | | 15 | 7.4 |
| 191-24-2 | Benzo[g,h,i]perylene | 374 | | 24 | 5.4 |
| 207-08-9 | Benzo[k]fluoranthene | 409 | | 9.8 | 4.4 |
| 218-01-9 | Chrysene | 508 | | 11 | 5.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 335 | | 24 | 5.0 |
| 206-44-0 | Fluoranthene | 505 | | 24 | 4.9 |
| 86-73-7 | Fluorene | 404 | | 24 | 5.0 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 405 | | 24 | 8.7 |
| 90-12-0 | 1-Methylnaphthalene | 461 | | 49 | 5.4 |
| 91-57-6 | 2-Methylnaphthalene | 487 | | 49 | 8.7 |
| 91-20-3 | Naphthalene | 475 | | 49 | 5.4 |
| 85-01-8 | Phenanthrene | 489 | | 9.8 | 4.8 |
| 129-00-0 | Pyrene | 461 | | 24 | 4.5 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 47 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\1DL16011.D
Lab Smp Id: 680-85534-A-5-C MSD
Inj Date : 16-DEC-2012 12:52
Operator : SCC  Inst ID: BSMSD.i
Smp Info : 680-85534-A-5-C MSD
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D121612.b\dFASTPAHi.m
Meth Date : 16-Dec-2012 13:50 cantins  Quant Type: ISTD
Cal Date : 06-DEC-2012 14:14  Cal File: 1DL06009.D
Als bottle: 11  QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE  Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 15.000 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 6.262 | 6.265 | (1.000) | 4182485 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 7.931 | 7.934 | (1.000) | 2473096 | 40.0000 | |
| * 9 Phenanthrene-d10 | 188 | 9.188 | 9.191 | (1.000) | 3993127 | 40.0000 | |
| $ 13 o-Terphenyl | 230 | 9.500 | 9.503 | (1.034) | 297576 | 4.72475 | 310 |
| * 17 Chrysene-d12 | 240 | 11.556 | 11.553 | (1.000) | 3752593 | 40.0000 | |
| * 22 Perylene-d12 | 264 | 13.472 | 13.463 | (1.000) | 3991868 | 40.0000 | |
| 2 Naphthalene | 128 | 6.280 | 6.283 | (1.003) | 635057 | 5.84759 | 390 |
| 3 2-Methylnaphthalene | 142 | 6.979 | 6.982 | (1.114) | 419777 | 5.98662 | 400 |
| 4 1-Methylnaphthalene | 142 | 7.073 | 7.076 | (1.129) | 377342 | 5.67636 | 380 |
| 5 Acenaphthylene | 152 | 7.802 | 7.805 | (0.984) | 543714 | 5.03298 | 340 |
| 7 Acenaphthene | 154 | 7.955 | 7.958 | (1.003) | 308651 | 4.71640 | 310 |
| 8 Fluorene | 166 | 8.395 | 8.398 | (1.059) | 383113 | 4.96677 | 330 |
| 10 Phenanthrene | 178 | 9.206 | 9.209 | (1.002) | 687689 | 6.01885 | 400 |
| 11 Anthracene | 178 | 9.247 | 9.250 | (1.006) | 570148 | 4.97745 | 330 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN ( ug/l) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 12 Carbazole | 167 | 9.376 | 9.379 | (1.020) | 493935 | 4.87078 | 320(RM) |
| 14 Fluoranthene | 202 | 10.187 | 10.190 | (1.109) | 717587 | 6.21430 | 410 |
| 15 Pyrene | 202 | 10.375 | 10.378 | (0.898) | 678209 | 5.66674 | 380 |
| 16 Benzo(a)anthracene | 228 | 11.533 | 11.530 | (0.998) | 591108 | 5.83667 | 390 |
| 18 Chrysene | 228 | 11.580 | 11.583 | (1.002) | 664394 | 6.24945 | 420 |
| 19 Benzo(b)fluoranthene | 252 | 12.890 | 12.893 | (0.957) | 678576 | 6.92583 | 460 |
| 20 Benzo(k)fluoranthene | 252 | 12.931 | 12.940 | (0.960) | 546741 | 5.03645 | 340 |
| 21 Benzo(a)pyrene | 252 | 13.360 | 13.363 | (0.992) | 520845 | 5.32779 | 360 |
| 23 Indeno(1,2,3-cd)pyrene | 276 | 15.105 | 15.114 | (1.121) | 480770 | 4.98615 | 330(M) |
| 24 Dibenzo(a,h)anthracene | 278 | 15.140 | 15.149 | (1.124) | 389829 | 4.11882 | 270 |
| 25 Benzo(g,h,i)perylene | 276 | 15.581 | 15.590 | (1.157) | 457044 | 4.60435 | 310 |

QC Flag Legend

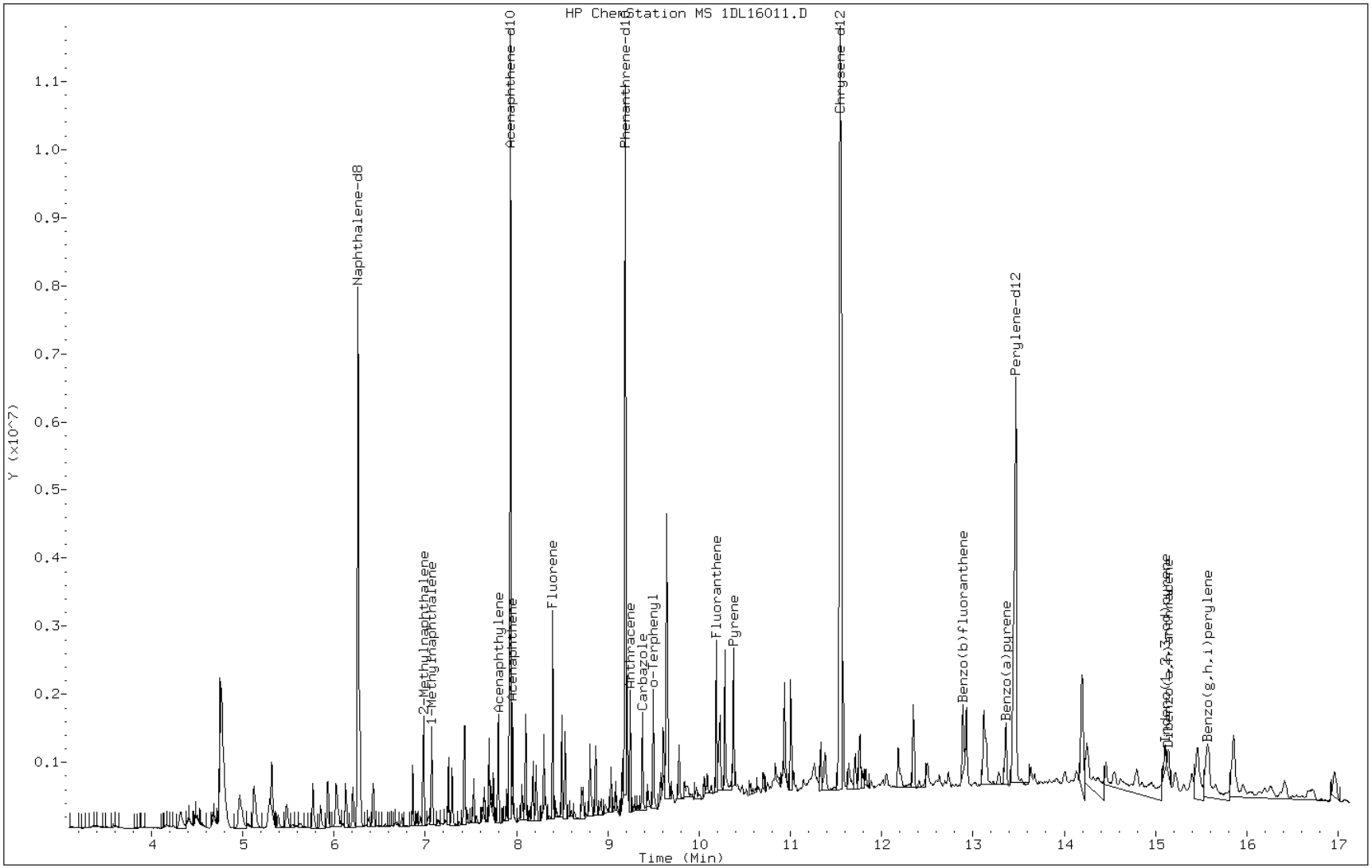
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DL16011.D

Date: 16-DEC-2012 12:52

Client ID: Instrument: BSMSD.i

Sample Info: 680-85534-A-5-C MSD Operator: SCC



Manual Integration Report

Data File: 1DL16011.D
Inj. Date and Time: 16-DEC-2012 12:52
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/16/2012

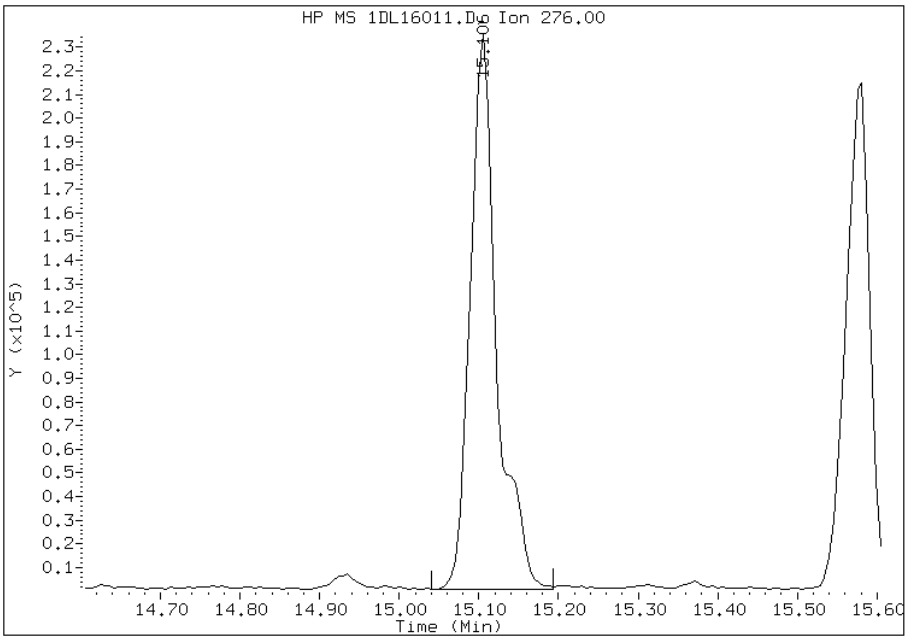
Processing Integration Results

RT: 15.11

Response: 537543

Amount: 6

Conc: 372



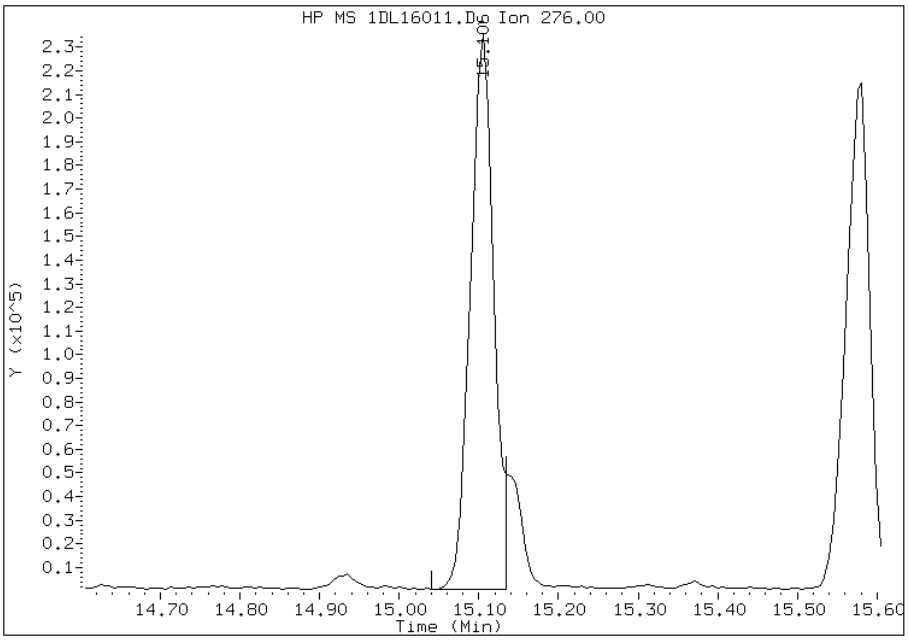

Manual Integration Results

RT: 15.11

Response: 480770

Amount: 5

Conc: 332




Manually Integrated By: cantins
Modification Date: 16-Dec-2012 14:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-85534-2

SDG No.: 68085534-1

Client Sample ID: FM0165A-CS MSD | Lab Sample ID: 680-85534-18 MSD

Matrix: Solid | Lab File ID: 1AL14012.D

Analysis Method: 8270C LL | Date Collected: 12/05/2012 08:58

Extract. Method: 3546 | Date Extracted: 12/13/2012 17:56

Sample wt/vol: 14.96(g) | Date Analyzed: 12/14/2012 14:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 132527 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 368 | | 120 | 23 |
| 208-96-8 | Acenaphthylene | 384 | | 47 | 5.8 |
| 120-12-7 | Anthracene | 424 | | 9.8 | 4.9 |
| 56-55-3 | Benzo[a]anthracene | 499 | | 9.3 | 4.6 |
| 50-32-8 | Benzo[a]pyrene | 365 | | 12 | 6.1 |
| 205-99-2 | Benzo[b]fluoranthene | 490 | | 14 | 7.1 |
| 191-24-2 | Benzo[g,h,i]perylene | 468 | | 23 | 5.1 |
| 207-08-9 | Benzo[k]fluoranthene | 372 | | 9.3 | 4.2 |
| 218-01-9 | Chrysene | 492 | | 11 | 5.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 410 | | 23 | 4.8 |
| 206-44-0 | Fluoranthene | 478 | | 23 | 4.7 |
| 86-73-7 | Fluorene | 436 | | 23 | 4.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 420 | | 23 | 8.3 |
| 90-12-0 | 1-Methylnaphthalene | 413 | | 47 | 5.1 |
| 91-57-6 | 2-Methylnaphthalene | 401 | | 47 | 8.3 |
| 91-20-3 | Naphthalene | 383 | | 47 | 5.1 |
| 85-01-8 | Phenanthrene | 410 | | 9.3 | 4.6 |
| 129-00-0 | Pyrene | 426 | | 23 | 4.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57 | | 30-130 |

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\1AL14012.D
Lab Smp Id: 680-85534-a-18-c ms
Inj Date : 14-DEC-2012 14:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-85534-a-18-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A121412.b\a-bFASTPAHi-m.m
Meth Date : 14-Dec-2012 12:27 cantins Quant Type: ISTD
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah3546.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.000 | Dilution Factor |
| Vi | 1.000 | Injection Volume |
| Vt | 1.000 | Final Volume |
| Ws | 14.960 | Weight Extracted |
| M | 0.00000 | % Moisture |
| A | 1000.000 | uL to mL conversion |
| B | 1000.000 | g to kg conversion |
| C | 0.00100 | ng to ug conversion |
| D | 1.000 | ug to mg conversion(value = 1 if no conv |
| GPC | 1.000 | GPC FACTOR |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.761 | 2.757 | (1.000) | 820676 | 40.0000 | |
| * 6 Acenaphthene-d10 | 164 | 3.803 | 3.799 | (1.000) | 502034 | 40.0000 | |
| * 10 Phenanthrene-d10 | 188 | 4.813 | 4.809 | (1.000) | 807762 | 40.0000 | |
| $ 14 o-Terphenyl | 230 | 5.085 | 5.086 | (1.057) | 68126 | 5.68807 | 380.2184 |
| * 18 Chrysene-d12 | 240 | 6.901 | 6.897 | (1.000) | 870742 | 40.0000 | |
| * 23 Perylene-d12 | 264 | 8.034 | 8.025 | (1.000) | 467631 | 40.0000 | |
| 2 Naphthalene | 128 | 2.772 | 2.768 | (1.004) | 97173 | 4.91747 | 328.7075 |
| 3 2-Methylnaphthalene | 141 | 3.178 | 3.174 | (1.151) | 57914 | 5.15089 | 344.3109 |
| 4 1-Methylnaphthalene | 142 | 3.237 | 3.233 | (1.172) | 62392 | 5.30919 | 354.8924 |
| 5 Acenaphthylene | 152 | 3.718 | 3.714 | (0.978) | 104395 | 4.93858 | 330.1188 |
| 7 Acenaphthene | 154 | 3.819 | 3.820 | (1.004) | 56252 | 4.73310 | 316.3839 |
| 9 Fluorene | 166 | 4.156 | 4.152 | (1.093) | 80740 | 5.60250 | 374.4984 |
| 11 Phenanthrene | 178 | 4.823 | 4.825 | (1.002) | 109400 | 5.27248 | 352.4385 |
| 12 Anthracene | 178 | 4.861 | 4.857 | (1.010) | 111085 | 5.44687 | 364.0954 |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS ON-COLUMN (ug/ml) | FINAL (ug/Kg) |
|---|---|---|---|---|---|---|---|
| 13 Carbazole | 167 | 5.010 | 5.006 | (1.041) | 99099 | 5.60340 | 374.5589 |
| 15 Fluoranthene | 202 | 5.726 | 5.727 | (1.190) | 134148 | 6.14741 | 410.9234 |
| 16 Pyrene | 202 | 5.903 | 5.904 | (0.855) | 140614 | 5.48061 | 366.3510 |
| 17 Benzo(a)anthracene | 228 | 6.896 | 6.887 | (0.999) | 149564 | 6.41892 | 429.0725 |
| 19 Chrysene | 228 | 6.918 | 6.919 | (1.002) | 143179 | 6.32652 | 422.8954 |
| 20 Benzo(b)fluoranthene | 252 | 7.730 | 7.725 | (0.962) | 78043 | 6.30020 | 421.1363 |
| 21 Benzo(k)fluoranthene | 252 | 7.751 | 7.747 | (0.965) | 64249 | 4.78322 | 319.7341 |
| 22 Benzo(a)pyrene | 252 | 7.970 | 7.971 | (0.992) | 55565 | 4.69667 | 313.9484(R) |
| 24 Indeno(1,2,3-cd)pyrene | 276 | 9.001 | 9.002 | (1.120) | 58748 | 5.40179 | 361.0821(M) |
| 25 Dibenzo(a,h)anthracene | 278 | 9.028 | 9.024 | (1.124) | 51404 | 5.26303 | 351.8070 |
| 26 Benzo(g,h,i)perylene | 276 | 9.305 | 9.301 | (1.158) | 65366 | 6.01203 | 401.8736 |

QC Flag Legend

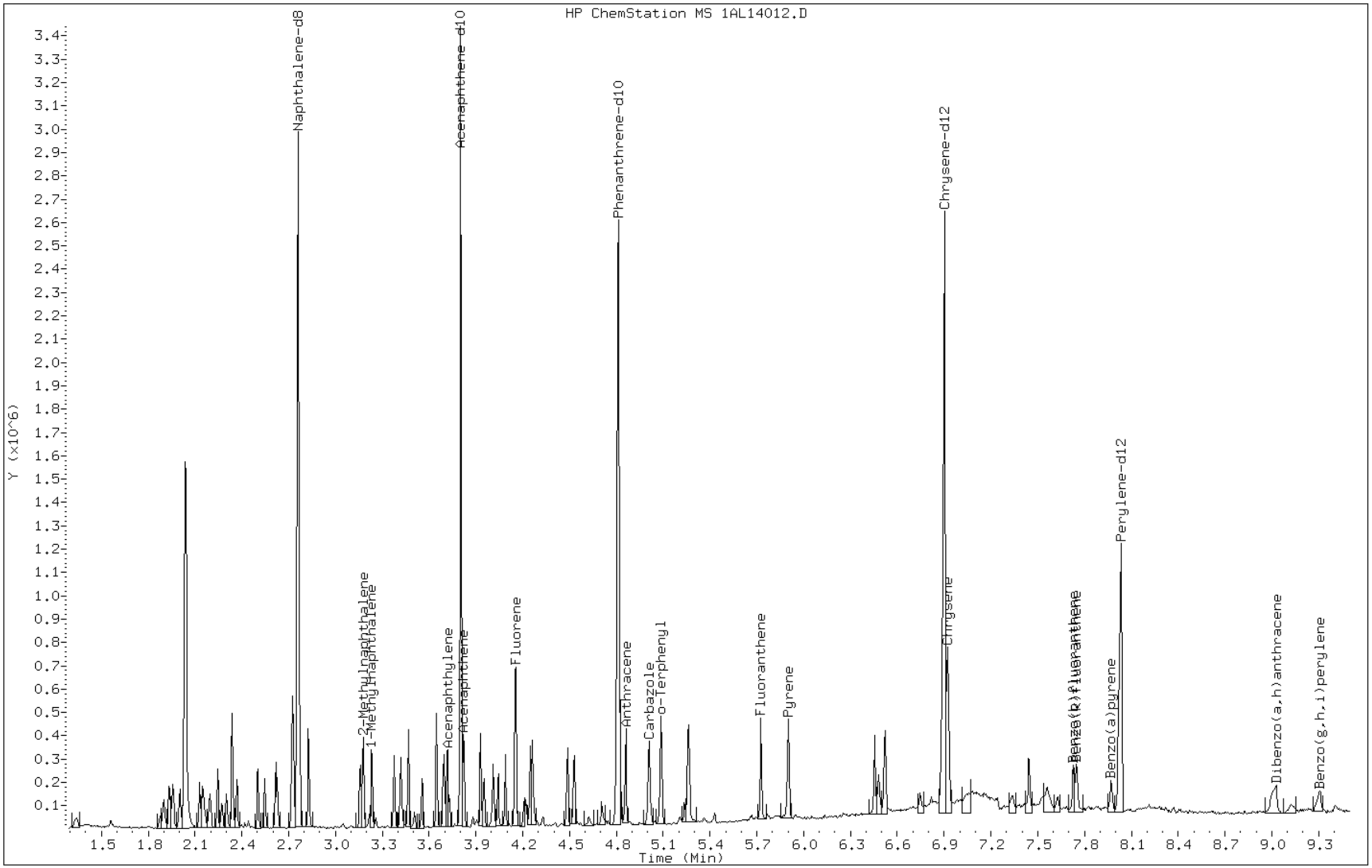
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AL14012.D

Date: 14-DEC-2012 14:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-85534-a-18-c msd Operator: SCC



Manual Integration Report

Data File: 1AL14012.D
Inj. Date and Time: 14-DEC-2012 14:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/14/2012

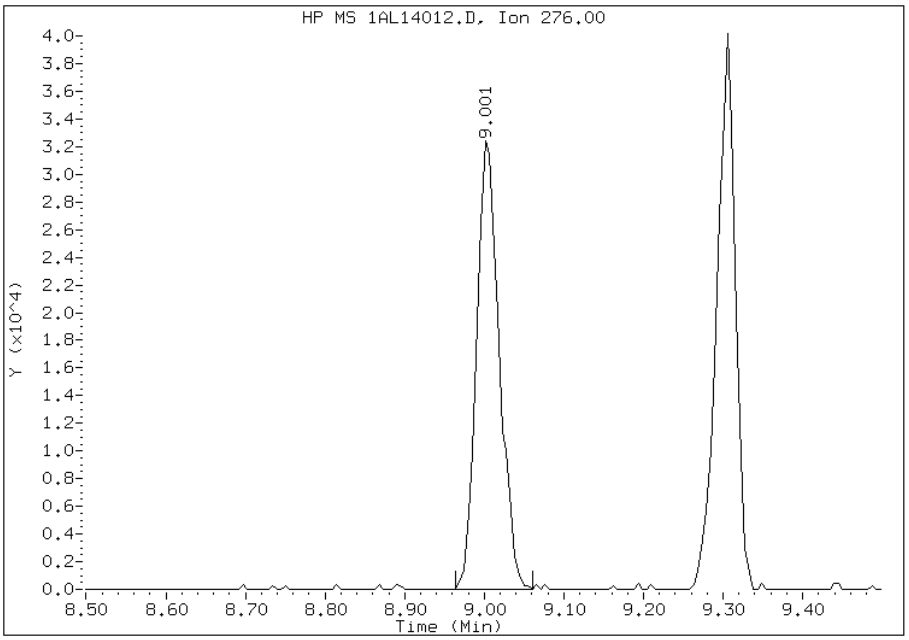
Processing Integration Results

RT: 9.00

Response: 65062

Amount: 6

Conc: 400



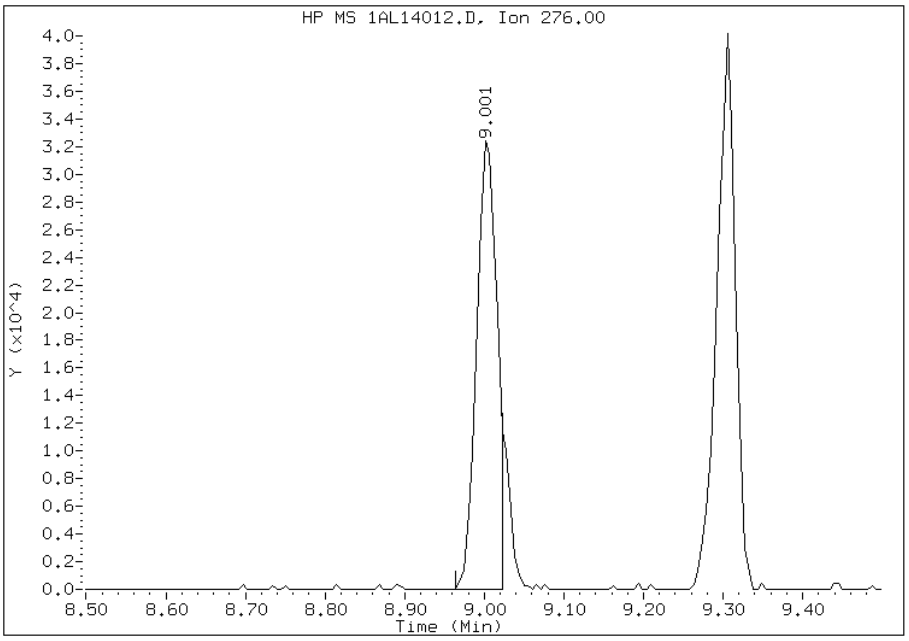

Manual Integration Results

RT: 9.00

Response: 58748

Amount: 5

Conc: 361




Manually Integrated By: cantins
Modification Date: 14-Dec-2012 15:01
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Start Date: 11/26/2012 13:03

Analysis Batch Number: 131833 End Date: 11/26/2012 17:11

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 11/26/2012 13:03 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 11/26/2012 13:18 | 1 | | DB-5MS 250(um) |
| DFTPP 660-131833/2 | | 11/26/2012 13:33 | 1 | 1AK26002.D | DB-5MS 250(um) |
| IC 660-131833/3 | | 11/26/2012 13:48 | 1 | 1AK26003.D | DB-5MS 250(um) |
| IC 660-131833/4 | | 11/26/2012 14:04 | 1 | 1AK26004.D | DB-5MS 250(um) |
| IC 660-131833/5 | | 11/26/2012 14:19 | 1 | 1AK26005.D | DB-5MS 250(um) |
| IC 660-131833/6 | | 11/26/2012 14:34 | 1 | 1AK26006.D | DB-5MS 250(um) |
| ICIS 660-131833/7 | | 11/26/2012 14:50 | 1 | 1AK26007.D | DB-5MS 250(um) |
| IC 660-131833/8 | | 11/26/2012 15:05 | 1 | 1AK26008.D | DB-5MS 250(um) |
| IC 660-131833/9 | | 11/26/2012 15:20 | 1 | 1AK26009.D | DB-5MS 250(um) |
| ICV 660-131833/10 | | 11/26/2012 15:35 | 1 | 1AK26010.D | DB-5MS 250(um) |
| ZZZZZ | | 11/26/2012 17:11 | 1 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Start Date: 12/14/2012 11:28

Analysis Batch Number: 132527 End Date: 12/14/2012 22:52

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/14/2012 11:28 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 11:43 | 1 | | DB-5MS 250(um) |
| DFTPP 660-132527/2 | | 12/14/2012 11:58 | 1 | 1AL14002.D | DB-5MS 250(um) |
| CCVIS 660-132527/3 | | 12/14/2012 12:13 | 1 | 1AL14003.D | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 12:30 | 1 | | DB-5MS 250(um) |
| MB 660-132474/1-A | | 12/14/2012 12:45 | 1 | 1AL14005.D | DB-5MS 250(um) |
| LCS 660-132474/2-A | | 12/14/2012 13:00 | 1 | 1AL14006.D | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 13:15 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 13:31 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 13:46 | 1 | | DB-5MS 250(um) |
| 680-85534-18 | FM0165A-CS | 12/14/2012 14:01 | 1 | 1AL14010.D | DB-5MS 250(um) |
| 680-85534-18 MS | FM0165A-CS MS | 12/14/2012 14:16 | 1 | 1AL14011.D | DB-5MS 250(um) |
| 680-85534-18 MSD | FM0165A-CS MSD | 12/14/2012 14:31 | 1 | 1AL14012.D | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 14:47 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 15:02 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 15:17 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 15:32 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 15:47 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 16:02 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 16:17 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 16:33 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 16:48 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 17:03 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 17:19 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 17:34 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 17:49 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 18:04 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 18:20 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 18:35 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 18:50 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 19:05 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 19:20 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 19:35 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 19:50 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 20:06 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 20:21 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 20:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 20:51 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 21:06 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 21:21 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 21:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 21:51 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 22:06 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 22:21 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/14/2012 22:37 | 4 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Start Date: 12/14/2012 11:28

Analysis Batch Number: 132527 End Date: 12/14/2012 22:52

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/14/2012 22:52 | 4 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Start Date: 12/13/2012 10:36

Analysis Batch Number: 132552 End Date: 12/13/2012 23:52

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/13/2012 10:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 10:52 | 1 | | DB-5MS 250(um) |
| DFTPP 660-132552/2 | | 12/13/2012 11:07 | 1 | 1AL13002.D | DB-5MS 250(um) |
| CCVIS 660-132552/3 | | 12/13/2012 11:21 | 1 | 1AL13003.D | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 11:37 | 1 | | DB-5MS 250(um) |
| MB 660-132425/1-A | | 12/13/2012 11:58 | 1 | 1AL13005.D | DB-5MS 250(um) |
| LCS 660-132425/2-A | | 12/13/2012 12:13 | 1 | 1AL13006.D | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 12:28 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 12:43 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 12:58 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 13:13 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 13:28 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 13:43 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 13:59 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 14:14 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 14:29 | 1 | | DB-5MS 250(um) |
| 680-85534-13 | FM0025A-CS-SP | 12/13/2012 14:45 | 1 | 1AL13016.D | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 15:00 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 15:15 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 15:30 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 15:46 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 16:01 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 16:16 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 16:31 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 16:46 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 17:01 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 17:17 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 17:32 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 17:47 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 18:02 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 18:18 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 18:33 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 18:48 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 19:03 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 19:18 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 19:33 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 19:48 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 20:03 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 20:19 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 20:34 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 20:49 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 21:05 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 21:19 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 21:35 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 21:50 | 1 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMA5973 Start Date: 12/13/2012 10:36

Analysis Batch Number: 132552 End Date: 12/13/2012 23:52

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/13/2012 22:05 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 22:20 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 22:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 22:51 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 23:06 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 23:21 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 23:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/13/2012 23:52 | 1 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMC5973 Start Date: 11/29/2012 10:21

Analysis Batch Number: 131957 End Date: 11/29/2012 17:49

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 11/29/2012 10:21 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 11/29/2012 10:40 | 1 | | DB-5MS 250(um) |
| DFTPP 660-131957/2 | | 11/29/2012 10:59 | 1 | 1CK29002.D | DB-5MS 250(um) |
| IC 660-131957/3 | | 11/29/2012 11:16 | 1 | 1CK29003.D | DB-5MS 250(um) |
| IC 660-131957/4 | | 11/29/2012 11:34 | 1 | 1CK29004.D | DB-5MS 250(um) |
| IC 660-131957/5 | | 11/29/2012 11:53 | 1 | 1CK29005.D | DB-5MS 250(um) |
| IC 660-131957/6 | | 11/29/2012 12:11 | 1 | 1CK29006.D | DB-5MS 250(um) |
| ICIS 660-131957/7 | | 11/29/2012 12:29 | 1 | 1CK29007.D | DB-5MS 250(um) |
| IC 660-131957/8 | | 11/29/2012 12:48 | 1 | 1CK29008.D | DB-5MS 250(um) |
| IC 660-131957/9 | | 11/29/2012 13:06 | 1 | 1CK29009.D | DB-5MS 250(um) |
| ICV 660-131957/10 | | 11/29/2012 13:25 | 1 | 1CK29010.D | DB-5MS 250(um) |
| ZZZZZ | | 11/29/2012 16:31 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 11/29/2012 16:54 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 11/29/2012 17:12 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 11/29/2012 17:31 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 11/29/2012 17:49 | 1 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMC5973 Start Date: 12/18/2012 10:40

Analysis Batch Number: 132652 End Date: 12/18/2012 20:58

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/18/2012 10:40 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 10:58 | 1 | | DB-5MS 250(um) |
| DFTPP 660-132652/2 | | 12/18/2012 11:17 | 1 | 1CL18002.D | DB-5MS 250(um) |
| CCVIS 660-132652/3 | | 12/18/2012 11:34 | 1 | 1CL18003.D | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 11:52 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 12:10 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 12:29 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 12:47 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 13:16 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 13:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 13:55 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 14:13 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 14:32 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 14:50 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 15:08 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 15:27 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 15:45 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 16:04 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 16:22 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 16:40 | 1 | | DB-5MS 250(um) |
| 680-85534-23 DL | FM0165F-CS DL | 12/18/2012 16:59 | 10 | 1CL18020.D | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 17:17 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 17:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 17:54 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 18:12 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 18:31 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 18:49 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 19:08 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 19:26 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 19:44 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 20:03 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 20:21 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/18/2012 20:40 | 1 | | DB-5MS 250(um) |
| 680-85534-23 DL2 | FM0165F-CS DL2 | 12/18/2012 20:58 | 20 | 1CL18033.D | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Start Date: 12/06/2012 10:41

Analysis Batch Number: 132234 End Date: 12/06/2012 19:57

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/06/2012 10:41 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 11:04 | 1 | | DB-5MS 250(um) |
| DFTPP 660-132234/2 | | 12/06/2012 11:28 | 1 | 1DL06002.D | DB-5MS 250(um) |
| IC 660-132234/3 | | 12/06/2012 11:59 | 1 | 1DL06003.D | DB-5MS 250(um) |
| IC 660-132234/4 | | 12/06/2012 12:21 | 1 | 1DL06004.D | DB-5MS 250(um) |
| IC 660-132234/5 | | 12/06/2012 12:44 | 1 | 1DL06005.D | DB-5MS 250(um) |
| IC 660-132234/6 | | 12/06/2012 13:07 | 1 | 1DL06006.D | DB-5MS 250(um) |
| ICIS 660-132234/7 | | 12/06/2012 13:29 | 1 | 1DL06007.D | DB-5MS 250(um) |
| IC 660-132234/8 | | 12/06/2012 13:52 | 1 | 1DL06008.D | DB-5MS 250(um) |
| IC 660-132234/9 | | 12/06/2012 14:14 | 1 | 1DL06009.D | DB-5MS 250(um) |
| ICV 660-132234/10 | | 12/06/2012 14:37 | 1 | 1DL06010.D | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 16:56 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 17:18 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 17:41 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 18:04 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 18:26 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 18:49 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 19:11 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 19:34 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/06/2012 19:57 | 1 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Start Date: 12/16/2012 08:20

Analysis Batch Number: 132553 End Date: 12/16/2012 21:14

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/16/2012 08:20 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 08:43 | 1 | | DB-5MS 250(um) |
| DFTPP 660-132553/2 | | 12/16/2012 09:07 | 1 | 1DL16002.D | DB-5MS 250(um) |
| CCVIS 660-132553/3 | | 12/16/2012 09:42 | 1 | 1DL16003.D | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 10:07 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 10:30 | 1 | | DB-5MS 250(um) |
| MB 660-132458/1-A | | 12/16/2012 10:59 | 1 | 1DL16006.D | DB-5MS 250(um) |
| LCS 660-132458/2-A | | 12/16/2012 11:22 | 1 | 1DL16007.D | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 11:44 | 1 | | DB-5MS 250(um) |
| 680-85534-5 | HP0012B-CS | 12/16/2012 12:07 | 1 | 1DL16009.D | DB-5MS 250(um) |
| 680-85534-5 MS | HP0012B-CS MS | 12/16/2012 12:29 | 1 | 1DL16010.D | DB-5MS 250(um) |
| 680-85534-5 MSD | HP0012B-CS MSD | 12/16/2012 12:52 | 1 | 1DL16011.D | DB-5MS 250(um) |
| 680-85534-14 | FM0025B-CS | 12/16/2012 13:15 | 1 | 1DL16012.D | DB-5MS 250(um) |
| 680-85534-15 | FM0025C-CS-SP | 12/16/2012 13:38 | 1 | 1DL16013.D | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 14:48 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 15:11 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 15:34 | 1 | | DB-5MS 250(um) |
| 680-85534-16 | FM0025D-CS-SP | 12/16/2012 15:56 | 1 | 1DL16017.D | DB-5MS 250(um) |
| 680-85534-17 | FM0025E-CS | 12/16/2012 16:19 | 1 | 1DL16018.D | DB-5MS 250(um) |
| 680-85534-19 | FM0165B-CS | 12/16/2012 16:42 | 1 | 1DL16019.D | DB-5MS 250(um) |
| 680-85534-20 | FM0165C-CS | 12/16/2012 17:05 | 1 | 1DL16020.D | DB-5MS 250(um) |
| 680-85534-21 | FM0165D-CS | 12/16/2012 17:27 | 1 | 1DL16021.D | DB-5MS 250(um) |
| 680-85534-22 | FM0165E-CS | 12/16/2012 17:50 | 1 | 1DL16022.D | DB-5MS 250(um) |
| 680-85534-23 | FM0165F-CS | 12/16/2012 18:13 | 1 | 1DL16023.D | DB-5MS 250(um) |
| 680-85534-24 | FM0165G-CS | 12/16/2012 18:35 | 1 | 1DL16024.D | DB-5MS 250(um) |
| 680-85534-25 | FM0165H-CS | 12/16/2012 18:58 | 1 | 1DL16025.D | DB-5MS 250(um) |
| 680-85534-26 | FM0165I-CS | 12/16/2012 19:21 | 1 | 1DL16026.D | DB-5MS 250(um) |
| 680-85534-27 | FM0165J-CS | 12/16/2012 19:44 | 1 | 1DL16027.D | DB-5MS 250(um) |
| 680-85534-28 | FM0165K-CS | 12/16/2012 20:06 | 1 | 1DL16028.D | DB-5MS 250(um) |
| 680-85534-29 | FM0165L-CS | 12/16/2012 20:29 | 1 | 1DL16029.D | DB-5MS 250(um) |
| 680-85534-30 | FM0165M-CS | 12/16/2012 20:51 | 1 | 1DL16030.D | DB-5MS 250(um) |
| ZZZZZ | | 12/16/2012 21:14 | 1 | | DB-5MS 250(um) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: BSMD5973 Start Date: 12/19/2012 09:40

Analysis Batch Number: 132707 End Date: 12/19/2012 19:01

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/19/2012 09:40 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 10:05 | 1 | | DB-5MS 250(um) |
| DFTPP 660-132707/1 | | 12/19/2012 10:29 | 1 | 1DL19002.D | DB-5MS 250(um) |
| CCVIS 660-132707/2 | | 12/19/2012 10:48 | 1 | 1DL19003.D | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 11:11 | 1 | | DB-5MS 250(um) |
| 680-85534-31 | FM0165N-CS | 12/19/2012 11:51 | 1 | 1DL19005.D | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 12:14 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 12:36 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 12:59 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 13:22 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 13:44 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 14:07 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 14:30 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 14:53 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 15:15 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 15:38 | 4 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 16:00 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 16:23 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 16:46 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 17:08 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 17:31 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 17:54 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 18:16 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 18:39 | 1 | | DB-5MS 250(um) |
| ZZZZZ | | 12/19/2012 19:01 | 4 | | DB-5MS 250(um) |

# GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa  Job No.: 680-85534-2

SDG No.: 68085534-1

Batch Number: 132425  Batch Start Date: 12/12/12 16:13  Batch Analyst: Vasquez, Juana

Batch Method: 3546  Batch End Date: 12/13/12 10:55

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | EX-625LVI SPK 00016 | EXLLSURINT 00168 | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 660-132425/1 | | 3546, 8270C LL | | 14.96 g | 1 mL | | 1 mL | | |
| LCS 660-132425/2 | | 3546, 8270C LL | | 14.98 g | 1 mL | 1 mL | 1 mL | | |
| 680-85534-A-13 | FM0025A-CS-SP | 3546, 8270C LL | T | 15.05 g | 1 mL | | 1 mL | | |

| Batch Notes | |
|---|---|
| Acetone Lot # | EX-ACETON BOT_00048 |
| Balance ID | B001 |
| Person's name who did the concentration | JUANA |
| Exchange Solvent Lot # | EX-MC CYCL_00050 |
| Exchange Solvent Name | DCM |
| Filter Paper Lot Number | 09-795F |
| Final Concentrator Volume | 1 mL |
| MeCL2 Lot # | EX-MC CYCL_00050 |
| MeCl2/Acetone Lot # | DCM/ACETON_00010 |
| Microwave Start Time | 17:30 12.12.12 |
| Microwave Stop Time | 18:00 12.12.12 |
| Na2SO4 Lot Number | EX-NA2S04A_00060 |
| Ottawa Sand Lot # | EX-O SAND_00005 |
| Person's name who did the prep | JUANA |
| SOP Number | TP-EX014 |
| Person who witnessed spiking | SC |
| Surrogate Lot Number | EXLLSURINT00168 |
| Water Bath ID | TURBOVAP2 # 2,3,4,1 |
| Water Bath Temperature | 40 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Batch Number: 132458 Batch Start Date: 12/13/12 13:19 Batch Analyst: Vasquez, Juana

Batch Method: 3546 Batch End Date: 12/13/12 18:15

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | EX-625LVI SPK 00016 | EXLLSURINT 00169 | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 660-132458/1 | | 3546, 8270C LL | | 15.03 g | 1 mL | | 1 mL | | |
| LCS 660-132458/2 | | 3546, 8270C LL | | 14.99 g | 1 mL | 1 mL | 1 mL | | |
| 680-85534-A-5 | HP0012B-CS | 3546, 8270C LL | T | 15.00 g | 1 mL | | 1 mL | | |
| 680-85534-A-5 MS | HP0012B-CS | 3546, 8270C LL | T | 15.00 g | 1 mL | 1 mL | 1 mL | | |
| 680-85534-A-5 MSD | HP0012B-CS | 3546, 8270C LL | T | 15.00 g | 1 mL | 1 mL | 1 mL | | |
| 680-85534-A-14 | FM0025B-CS | 3546, 8270C LL | T | 15.06 g | 1 mL | | 1 mL | | |
| 680-85534-A-15 | FM0025C-CS-SP | 3546, 8270C LL | T | 14.99 g | 1 mL | | 1 mL | | |
| 680-85534-A-16 | FM0025D-CS-SP | 3546, 8270C LL | T | 15.02 g | 1 mL | | 1 mL | | |
| 680-85534-A-17 | FM0025E-CS | 3546, 8270C LL | T | 14.96 g | 1 mL | | 1 mL | | |
| 680-85534-A-19 | FM0165B-CS | 3546, 8270C LL | T | 15.00 g | 1 mL | | 1 mL | | |
| 680-85534-A-20 | FM0165C-CS | 3546, 8270C LL | T | 15.00 g | 1 mL | | 1 mL | | |
| 680-85534-A-21 | FM0165D-CS | 3546, 8270C LL | T | 15.12 g | 1 mL | | 1 mL | | |
| 680-85534-A-22 | FM0165E-CS | 3546, 8270C LL | T | 14.98 g | 1 mL | | 1 mL | | |
| 680-85534-A-23 | FM0165F-CS | 3546, 8270C LL | T | 15.03 g | 1 mL | | 1 mL | | |
| 680-85534-A-24 | FM0165G-CS | 3546, 8270C LL | T | 15.03 g | 1 mL | | 1 mL | | |
| 680-85534-A-25 | FM0165H-CS | 3546, 8270C LL | T | 15.06 g | 1 mL | | 1 mL | | |
| 680-85534-A-26 | FM0165I-CS | 3546, 8270C LL | T | 15.01 g | 1 mL | | 1 mL | | |
| 680-85534-A-27 | FM0165J-CS | 3546, 8270C LL | T | 15.04 g | 1 mL | | 1 mL | | |
| 680-85534-A-28 | FM0165K-CS | 3546, 8270C LL | T | 15.05 g | 1 mL | | 1 mL | | |
| 680-85534-A-29 | FM0165L-CS | 3546, 8270C LL | T | 14.95 g | 1 mL | | 1 mL | | |
| 680-85534-A-30 | FM0165M-CS | 3546, 8270C LL | T | 14.97 g | 1 mL | | 1 mL | | |
| 680-85534-A-31 | FM0165N-CS | 3546, 8270C LL | T | 15.01 g | 1 mL | | 1 mL | | |

# GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa  Job No.: 680-85534-2

SDG No.: 68085534-1

Batch Number: 132458  Batch Start Date: 12/13/12 13:19  Batch Analyst: Vasquez, Juana

Batch Method: 3546  Batch End Date: 12/13/12 18:15

| Batch Notes | |
|---|---|
| Acetone Lot # | EX-ACETON BOT_00048 |
| Balance ID | B001 |
| Person's name who did the concentration | JUANA |
| Exchange Solvent Lot # | EX-MC CYCL-00050 |
| Exchange Solvent Name | DCM |
| Filter Paper Lot Number | 09-795F |
| Final Concentrator Volume | 1 mL |
| MeCL2 Lot # | EX-MC CYCL_00050 |
| MeCl2/Acetone Lot # | DCM/ACETON_00011 |
| Microwave Start Time | 15:15 12.13.15 |
| Microwave Stop Time | 15:50 12.13.12 |
| Na2SO4 Lot Number | EX-NA2SO4A_00060 |
| Ottawa Sand Lot # | EX-O SAND_00005 |
| Person's name who did the prep | JUANA |
| SOP Number | TP-EX014 |
| Person who witnessed spiking | SAUREL |
| Surrogate Lot Number | EX-LLSURINT_00169 |
| Water Bath ID | TURBOVAP2 #1,2,3,4 |
| Water Bath Temperature | 40C |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

# GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa  Job No.: 680-85534-2

SDG No.: 68085534-1

Batch Number: 132474  Batch Start Date: 12/13/12 17:33  Batch Analyst: Vasquez, Juana

Batch Method: 3546  Batch End Date: 12/14/12 10:10

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | EX-625LVI SPK 00016 | EXLLSURINT 00168 | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 660-132474/1 | | 3546, 8270C LL | | 15.02 g | 1 mL | | 1 mL | | |
| LCS 660-132474/2 | | 3546, 8270C LL | | 14.97 g | 1 mL | 1 mL | 1 mL | | |
| 680-85534-A-18 | FM0165A-CS | 3546, 8270C LL | T | 14.96 g | 1 mL | | 1 mL | | |
| 680-85534-A-18 MS | FM0165A-CS | 3546, 8270C LL | T | 14.96 g | 1 mL | 1 mL | 1 mL | | |
| 680-85534-A-18 MSD | FM0165A-CS | 3546, 8270C LL | T | 14.96 g | 1 mL | 1 mL | 1 mL | | |

| Batch Notes | |
|---|---|
| Acetone Lot # | EX-ACETON BOT_00048 |
| Balance ID | B001 |
| Batch Comment | RE-EXTRACT |
| Person's name who did the concentration | JUANA |
| Exchange Solvent Lot # | EX-MC CYCL_00050 |
| Exchange Solvent Name | DCM |
| Filter Paper Lot Number | 09-795F |
| Final Concentrator Volume | 1 mL |
| MeCL2 Lot # | EX-MC CYCL_00050 |
| MeCl2/Acetone Lot # | DCM/ACETON_00011 |
| Microwave Start Time | 19:00 12.13.12 |
| Microwave Stop Time | 19:35 12.13.12 |
| Na2SO4 Lot Number | EX-NA2SO4A_00060 |
| Ottawa Sand Lot # | EX-O SAND-00005 |
| Person's name who did the prep | JUANA |
| SOP Number | TP-EX014 |
| Person who witnessed spiking | SAUREL |
| Surrogate Lot Number | EXLLSURINT_000168 |
| Water Bath ID | TURBOVAP2 # 3,4 |
| Water Bath Temperature | 40C |

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Batch Number: 132474 Batch Start Date: 12/13/12 17:33 Batch Analyst: Vasquez, Juana

Batch Method: 3546 Batch End Date: 12/14/12 10:10

| Basis | Basis Description |
|---|---|
| T | Total/NA |

# GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-85534-2

SDG No.: 68085534-1

Project: 35th Avenue Superfund Site

| Client Sample ID | Lab Sample ID |
|---|---|
| HP0012B-CS | 680-85534-5 |
| FM0025A-CS-SP | 680-85534-13 |
| FM0025B-CS | 680-85534-14 |
| FM0025C-CS-SP | 680-85534-15 |
| FM0025D-CS-SP | 680-85534-16 |
| FM0025E-CS | 680-85534-17 |
| FM0165A-CS | 680-85534-18 |
| FM0165B-CS | 680-85534-19 |
| FM0165C-CS | 680-85534-20 |
| FM0165D-CS | 680-85534-21 |
| FM0165E-CS | 680-85534-22 |
| FM0165F-CS | 680-85534-23 |
| FM0165G-CS | 680-85534-24 |
| FM0165H-CS | 680-85534-25 |
| FM0165I-CS | 680-85534-26 |
| FM0165J-CS | 680-85534-27 |
| FM0165K-CS | 680-85534-28 |
| FM0165L-CS | 680-85534-29 |
| FM0165M-CS | 680-85534-30 |
| FM0165N-CS | 680-85534-31 |

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-85534-2

SDG Number: 68085534-1

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

| Analyte | Wavelength/ Mass | RL (%) | |
|---|---|---|---|
| Percent Moisture | | 0.1 | |

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-85534-2

SDG Number: 68085534-1

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

| Analyte | Wavelength/ Mass | XRL (%) | |
|---|---|---|---|
| Percent Moisture | | 0.1 | |

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-85534-2

SDG Number: 68085534-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

| Analyte | Wavelength/ Mass | RL (%) | |
|---|---|---|---|
| Percent Moisture | | 0.1 | |

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-85534-2

SDG Number: 68085534-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

| Analyte | Wavelength/ Mass | XRL (%) | |
|---|---|---|---|
| Percent Moisture | | 0.1 | |

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: Moisture Method: Moisture

Start Date: 12/11/2012 06:51 End Date: 12/11/2012 11:40

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Moist | | | | | | | | | | | | | | | | | | | |
| LCSD 660-132346/22 | 1 | T | 06:51 | X | | | | | | | | | | | | | | | | | | | |
| LCS 660-132346/1 | 1 | T | 06:54 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:26 | | | | | | | | | | | | | | | | | | | | |
| 680-85534-19 | 1 | T | 07:39 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:42 | | | | | | | | | | | | | | | | | | | | |
| 680-85534-20 | 1 | T | 07:59 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-21 | 1 | T | 08:01 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-22 | 1 | T | 08:17 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-23 | 1 | T | 08:19 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-24 | 1 | T | 08:38 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-25 | 1 | T | 08:48 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-27 | 1 | T | 09:22 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-26 | 1 | T | 09:29 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-28 | 1 | T | 09:43 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-29 | 1 | T | 09:46 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-30 | 1 | T | 10:07 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-31 | 1 | T | 10:10 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/10/2012 18:35 End Date: 12/10/2012 19:00

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Moist | | | | | | | | | | | | | | | | | | | |
| MB 660-132317/1 | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
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| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/10/2012 18:35 End Date: 12/10/2012 19:00

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Moist | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| 680-85534-5 | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-5 MS | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-5 MSD | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| 680-85534-13 | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-14 | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-15 | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-16 | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-17 | 1 | T | 18:35 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-18 | 1 | T | 18:51 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-18 MS | 1 | T | 18:51 | X | | | | | | | | | | | | | | | | | | | |
| 680-85534-18 MSD | 1 | T | 18:51 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:00 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Batch Number: 132317 Batch Start Date: 12/10/12 18:35 Batch Analyst: Floyd, Robert W

Batch Method: Moisture Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | DISH# | DishWeight | SampleMassWet | SampleMassDry | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 660-132317/1 | | Moisture | | mb | 0 g | 10.0365 g | 10.0364 g | | |
| 680-85534-A-5 | HP0012B-CS | Moisture | T | 47 | 0 g | 6.5743 g | 5.3930 g | | |
| 680-85534-A-5 MS | HP0012B-CS | Moisture | T | 47 | 0 g | 5.6743 g | 5.3930 g | | |
| 680-85534-A-5 MSD | HP0012B-CS | Moisture | T | 47 | 0 g | 6.5743 g | 5.3930 g | | |
| 680-85534-A-13 | FM0025A-CS-SP | Moisture | T | 55 | 0 g | 5.5309 g | 4.3575 g | | |
| 680-85534-A-14 | FM0025B-CS | Moisture | T | 56 | 0 g | 8.1196 g | 6.7608 g | | |
| 680-85534-A-15 | FM0025C-CS-SP | Moisture | T | 57 | 0 g | 7.5636 g | 6.0589 g | | |
| 680-85534-A-16 | FM0025D-CS-SP | Moisture | T | 58 | 0 g | 6.4342 g | 4.8209 g | | |
| 680-85534-A-17 | FM0025E-CS | Moisture | T | 59 | 0 g | 5.0440 g | 3.1579 g | | |
| 680-85534-A-18 | FM0165A-CS | Moisture | T | 60 | 0 g | 9.8787 g | 8.4865 g | | |
| 680-85534-A-18 MS | FM0165A-CS | Moisture | T | 60 | 0 g | 9.8787 g | 8.4865 g | | |
| 680-85534-A-18 MSD | FM0165A-CS | Moisture | T | 60 | 0 g | 9.8787 g | 8.4865 g | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-85534-2

SDG No.: 68085534-1

Batch Number: 132346 Batch Start Date: 12/11/12 06:51 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | DishWeight | SampleMassWet | SampleMassDry | | | |
|---|---|---|---|---|---|---|---|---|---|
| LCS 660-132346/1 | | Moisture | | 0 g | 10.013 g | 9.018 g | | | |
| 680-85534-A-20 | FM0165C-CS | Moisture | T | 0 g | 4.079 g | 3.314 g | | | |
| 680-85534-A-22 | FM0165E-CS | Moisture | T | 0 g | 4.099 g | 3.264 g | | | |
| 680-85534-A-25 | FM0165H-CS | Moisture | T | 0 g | 4.311 g | 3.441 g | | | |
| 680-85534-A-26 | FM0165I-CS | Moisture | T | 0 g | 4.178 g | 3.209 g | | | |
| 680-85534-A-29 | FM0165L-CS | Moisture | T | 0 g | 4.203 g | 3.32 g | | | |
| 680-85534-A-31 | FM0165N-CS | Moisture | T | 0 g | 4.174 g | 2.956 g | | | |
| 680-85534-A-30 | FM0165M-CS | Moisture | T | 0 g | 4.967 g | 3.865 g | | | |
| 680-85534-A-28 | FM0165K-CS | Moisture | T | 0 g | 4.028 g | 3.195 g | | | |
| 680-85534-A-27 | FM0165J-CS | Moisture | T | 0 g | 4.298 g | 3.384 g | | | |
| 680-85534-A-24 | FM0165G-CS | Moisture | T | 0 g | 4.682 g | 3.597 g | | | |
| 680-85534-A-23 | FM0165F-CS | Moisture | T | 0 g | 4.283 g | 3.25 g | | | |
| 680-85534-A-21 | FM0165D-CS | Moisture | T | 0 g | 4.503 g | 3.741 g | | | |
| 680-85534-A-19 | FM0165B-CS | Moisture | T | 0 g | 4.398 g | 3.669 g | | | |
| LCSD 660-132346/22 | | Moisture | | 0 g | 10.032 g | 9.012 g | | | |

| Batch Notes | |
|---|---|
| Oven ID | HB43-1, HB43-*2 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

# Shipping and Receiving Documents

Serial Number 60688

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


(✓) TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

( ) Alternate Laboratory Name/Location

Phone:
Fax:


| | | |
|---|---|---|
| PROJECT REFERENCE: 35th Avenue Removal | PROJECT NO. | PROJECT LOCATION (STATE): AL |
| TAL (LAB) PROJECT MANAGER: Lisa Harvey | P.O. NUMBER: DAOS48-13556 | CONTRACT NO. |
| CLIENT (SITE) PM: Russell Henderson | CLIENT PHONE: 6783555550 | CLIENT FAX |
| CLIENT NAME: OTIE | CLIENT E-MAIL: Lharvey@otie.com | |
| CLIENT ADDRESS: 1330 Lonestar Circle, Ste 104 | | |
| COMPANY CONTRACTING THIS WORK (if applicable) | | |

PAGE 1 OF 5

STANDARD REPORT DELIVERY ( )

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | 1,1,2,2-PCA | PCBs | TCLP SVOC | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PRESERVATIVE | | | | | | | | | | |
| | | | | | | | | NUMBER OF CONTAINERS SUBMITTED | | | | | | | | | | |
| 9/5/12 | 1139 | FM0311A-CS-SP | C | | X | | | X | | | | | | | | | | 14 calendar |
| | 1131 | FM0311B-CS-SP | C | | X | | | X | | | | | | | | | | day TAT |
| | 1114 | FM0311C-CS-SP | C | | X | | | X | | | | | | | | | | |
| | 1115 | HP0812A-CS | C | | X | | | X | | | | | | | | | | |
| | 1145 | HP0812B-CS | C | | X | | | X | X | X | | | | | | | | MS/MSD |
| | 0910 | HP0276A-CS | C | | X | | | X | | | | | | | | | | |
| | 0930 | HP0276B-CS | C | | X | | | X | | | | | | | | | | |
| | 1030 | HP0286A-CS | C | | X | | | X | | | | | | | | | | |
| | 1040 | HP0286B-CS | C | | X | | | X | | | | | | | | | | |
| | 1541 | FM0080A-CS-SP | C | | X | | | X | X | | | | | | | | | |
| | 1523 | FM0080B-CS-SP | C | | X | | | X | | | | | | | | | | |
| | 1518 | FM0080C-CS-SP | C | | X | | | X | | | | | | | | | | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 12/6/12 | 18:00 | | | | | | |
| **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** |
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 12/07/12 | 0924 | YES ( ) NO ( ) | | 680 / 55534 | 0.3°C / 0.4°C / 0.6°C |

TAL8240-680 (1008)

Serial Number 60686

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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TestAmerica Savannah
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Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

| | | |
|---|---|---|
| PROJECT REFERENCE: 35th Ave Removal | PROJECT NO. | PROJECT LOCATION (STATE): AL |
| TAL (LAB) PROJECT MANAGER: Lisa Harvey | P.O. NUMBER: 2005148-1356 | CONTRACT NO. |
| CLIENT (SITE) PM: Russell Henderson | CLIENT PHONE: 678-355-5550 | CLIENT FAX |
| CLIENT NAME: ONE | CLIENT E-MAIL: LKrebs@one.com | |
| CLIENT ADDRESS: 1230 Lakeside Circle, Ste 100 | | |
| COMPANY CONTRACTING THIS WORK (if applicable) | | |

PAGE 2 OF 5

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | LLPAH | BCRA 3 MH | [illegible] | PCL SIMS | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PRESERVATIVE | | | | | | | | | | |
| | | | | | | | | NUMBER OF CONTAINERS SUBMITTED | | | | | | | | | | |
| 12/5/12 | 0930 | PH0035A-CS-SP | C | | X | | | X | | | | | | | | | | 14 calendar |
| | 0941 | PH0035B-CS | C | | X | | | X | | | | | | | | | | day TAT |
| | 0942 | PH0035C-CS-SP | C | | X | | | X | | | X | | | | | | | |
| | 0949 | PH0035D-CS-SP | C | | X | | | X | | | | | | | | | | |
| | 0950 | PH0035E-CS | C | | X | | | X | | | | | | | | | | |
| | 0858 | PH0165A-CS | C | | X | | | X | X | | | | | | | | | MS/MSD |
| | 0902 | PH0165B-CS | C | | X | | | X | | | | | | | | | | |
| | 0909 | PH0165C-CS | C | | X | | | X | | | | | | | | | | |
| | 0914 | PH0165D-CS | C | | X | | | X | | | | | | | | | | |
| | 0920 | PH0165E-CS | C | | X | | | X | | | | | | | | | | |
| | 0928 | PH0165F-CS | C | | X | | | X | | | | | | | | | | |
| | 1010 | PH0165G-CS | C | | X | | | X | | | | | | | | | | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 12/6/12 | 18:00 | | | | | | |
| **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** |
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 12/07/12 | 0974 | YES ◯ NO ◯ | | 650 85534 | 0.3°C / 0.4°C / 0.6°C |

TAL8240-680 (1008)

Serial Number 60687

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

| PROJECT REFERENCE | PROJECT NO. | PROJECT LOCATION (STATE) |
|---|---|---|
| 35th Ave Removal | | AL |

| TAL (LAB) PROJECT MANAGER | P.O. NUMBER | CONTRACT NO. |
|---|---|---|
| Lisa Haney | 3005148-13516 | |

| CLIENT (SITE) PM | CLIENT PHONE | CLIENT FAX |
|---|---|---|
| Russell Henderson | 6283555550 | |

| CLIENT NAME | CLIENT E-MAIL |
|---|---|
| OTIE | Lurebs@otie.com |

CLIENT ADDRESS: 3300 Lakeside Circle, Ste 106

COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 3 OF 5

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — INDICATE

REQUIRED ANALYSIS: 1,1,2,2-TCA; ~~[illegible]~~; TCLVOC

PRESERVATIVE

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | 1,1,2,2-TCA | ~~[illegible]~~ | TCLVOC | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/5/12 | 1005 | PM0165H-CS | C | | X | | | X | | | | | | | | | | 14 calendar |
| | 1029 | PM0165I-CS | C | | X | | | X | | | | | | | | | | day TAT |
| | 1034 | PM0165J-CS | C | | X | | | X | | | | | | | | | | |
| | 1039 | PM0165K-CS | C | | X | | | X | | | | | | | | | | |
| | 1048 | PM0165L-CS | C | | X | | | X | | | | | | | | | | |
| | 1054 | PM0165M-CS | C | | X | | | X | | | | | | | | | | |
| | 1056 | PM0165N-CS | C | | X | | | X | | X | | | | | | | | |
| | 1109 | PM0165O-CS | C | | X | | | X | | | | | | | | | | |
| | 1117 | PM0165P-CS | C | | X | | | X | | | | | | | | | | |
| | 1308 | PM0165Q-CS | C | | X | | | X | | | | | | | | | | |
| | 1315 | PM0165R-CS | C | | X | | | X | | | | | | | | | | |
| | 1332 | PM0165S-CS | C | | X | | | X | | | | | | | | | | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 12/6/12 | 18:00 | | | | | | |

| RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 12/07/12 | 0924 | YES ◯ NO ◯ | | 680 85534 | 0.3°C / 0.4°C / 0.6°C |

TAL8240-680 (1008)

Serial Number 60689

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

| PROJECT REFERENCE | PROJECT NO. | PROJECT LOCATION (STATE) |
|---|---|---|
| 35th Ave Removal | | |

| TAL (LAB) PROJECT MANAGER | P.O. NUMBER | CONTRACT NO. |
|---|---|---|
| Lisa Haney | 3005448 1356 | |

| CLIENT (SITE) PM | CLIENT PHONE | CLIENT FAX |
|---|---|---|
| Russell Henderson | 678 355 5550 | |

| CLIENT NAME | CLIENT E-MAIL |
|---|---|
| ONE | |

CLIENT ADDRESS: ~~[illegible]~~ 1150 Hardstone Circle, Ste 106

COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 4 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE: LUGGA, ~~[illegible]~~, ICE/SOC

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/5/12 | 1336 | FM0165T-CS | C | | X | | | X | | | | | | | | | 14 calendar |
| | 1350 | FM0165U-CS | C | | X | | | X | | | | | | | | | day TAT |
| | 1354 | FM0165V-CS | C | | X | | | X | | | | | | | | | |
| | 1354 | FM0165V-CSD | C | | X | | | X | | | | | | | | | |
| | 1415 | FM0165W-CS | C | | X | | | X | | | | | | | | | |
| | 1415 | FM0165W-CSD | C | | X | | | X | | | | | | | | | |
| | 1421 | FM0165X-CS | C | | X | | | X | | | | | | | | | |
| | 1451 | FM0165Z-CS / FM0165Y-CSD | C | | X | | | X | | | | | | | | | 165Y-CS 165Y-CSD |
| | 1456 | FM0165Z-CS Limit 12-7-12 | C | | X | | | X | | | | | | | | | 165Z-CS |
| | 1457 | FM0165AA-CS | C | | X | | | X | | | | | | | | | Apply Limit Results 12-7-12 |
| | 1511 | FM0165BB-CS | C | | X | | | X | | | | | | | | | |
| | 1345 | HP0022A-CS | C | | X | | | X | | X | | | | | | | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 12/6/12 | 18:00 | | | | | | |

| RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 12/07/12 | 0924 | YES ○ NO ○ | | 680 85534 | 0.3°C / 0.4°C / 0.6°C |

TAL8240-680 (1008)



12/20/2012

Serial Number 60692

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


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5102 LaRoche Avenue
Savannah, GA 31404

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Phone: (912) 354-7858
Fax: (912) 352-0165

( ) Alternate Laboratory Name/Location
Phone:
Fax:


| | | |
|---|---|---|
| PROJECT REFERENCE: 55th Ave Removal | PROJECT NO. | PROJECT LOCATION (STATE) |
| TAL (LAB) PROJECT MANAGER: Lisa Harvey | P.O. NUMBER: 2005348 13516 | CONTRACT NO. |
| CLIENT (SITE) PM: Russell Henderson | CLIENT PHONE: 678-555-5550 | CLIENT FAX |
| CLIENT NAME: OHE | CLIENT E-MAIL: L.kebs@ohe.com | |
| CLIENT ADDRESS: 1220 Kennestone Circle, Ste 106 | | |
| COMPANY CONTRACTING THIS WORK (if applicable) | | |

PAGE 5 OF 5

STANDARD REPORT DELIVERY ( )

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | LL PAH | PCBs | Cr6 | TCLP Cu | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PRESERVATIVE | | | | | | | | | | |
| | | | | | | | | NUMBER OF CONTAINERS SUBMITTED | | | | | | | | | | |
| 12/5/12 | 1345 | HP00022A-CSD | C | | X | | | X | | | | | | | | | | 14 calendar |
| | 1410 | HP00022B-CS | C | | X | | | X | | | | | | | | | | day TAT |
| | 1410 | HP00022B-CSD | C | | X | | | X | | | | | | | | | | |
| | 1500 | HP00067A-CS | C | | X | | | X | X | X | | | | | | | | MS/MSD |
| | 1520 | HP00067B-CS | C | | X | | | X | | | | | | | | | | |
| | 1356 | CV0442A-CS-SP | C | | X | | | X | | | X | | | | | | | |
| | 1414 | CV0442B-CS-SP | C | | X | | | X | | | | | | | | | | |
| | 0858 | FM0165A-CS (Sieve) | C | | X | | | ~~X~~ | X | | | | | | | | | metals only |
| | 1541 | FM0080A-CS-SP (Sieve) | C | | X | | | ~~X~~ | X | | | | | | | | | |
| | 1500 | HP00067A-CS (Sieve) | C | | X | | | ~~X~~ | X | | | | | | | | | |
| | 1145 | HP00128-CS | C | | X | | | ~~X~~ | X | | | | | | | | | ← or metals + PAH |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 12/6/12 | 1800 | | | | | | |
| RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME |
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 12/07/12 | 1924 | YES ( ) NO ( ) | | 680 85534 | 0.3°/0.4°/0.6° |

TAL8240-680 (1008)

# Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
SDG Number: 68085534-1

**Login Number: 85534**
**List Number: 1**
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | The last four samples should get metals/moisture only (mistakenly noted for PAH |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | True | One extra sample than listed on COC - -44 through -46 IDs are fixed |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | 8oz jar for -10 was cracked, soil was able to be transferred to new jar |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
SDG Number: 68085534-1

**Login Number: 85534**
**List Number: 1**
**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**
**List Creation: 12/08/12 01:04 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85534-2
SDG Number: 68085534-1

**Login Number: 85534**
**List Number: 2**
**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**
**List Creation: 12/14/12 09:52 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |