

**Data Validation Checklist  
Semivolatile Organic Analyses**

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA<sup>1</sup>  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Karen Marie Trujillo  
 Concurrence<sup>2</sup>: Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-89220-2  
 Associated Samples: Refer to **Attachment A** (Sample Summary)  
 Samples Collected: 04/09/2013  
 Date: 04/30/2013  
 Date: 05/06/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.		✓		The samples were received by TestAmerica Savannah, GA on 04/11/2013 at 2.2°C; however, samples were repackaged and shipped to TestAmerica Tampa, FL on 04/11/2013. FEDEX lost track of the cooler, and did not deliver until 04/15/2013. The coolers were out of temperature upon receipt in Tampa; therefore, all samples results are estimated (J, UJ). Refer to <b>Attachment B</b> (Case Narrative).	J, UJ
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?	✓			The "Login Sample Receipt Checklist" states there was water in the cooler, indicating melted ice and the cooler temperature was not acceptable. Sample shipment delayed by FedEx.  Case Narrative also states that FEDEX lost track of the cooler shipped from the TestAmerica Savannah laboratory to the Tampa laboratory.	
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				

<sup>1</sup> All analytical work subcontracted to TestAmerica of Tampa, FL

<sup>2</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 04113-RB-Bowls + Spoons (680-89275-1).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 04113-RB-Bowls + Spoons (680-89275-1) was collected during the week of 4/08/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89275-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			FM0252B-CSD (680-89220-26) is a field duplicate of FM0252B-CS (680-89220-25).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to <b>Attachment C</b> (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer</li> </ul>	✓			<ul style="list-style-type: none"> <li>Instrument ID: BSMC5973</li> <li>Initial Calibration: 04/11/2013</li> <li>ICV: 04/11/13 @ 14:25</li> <li>CCV: 04/18/13 @ 12:01</li> <li>CCV: 04/19/13 @ 11:24</li> </ul>	

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
narrative. <ul style="list-style-type: none"> <li>An initial calibration is to be associated with each sample analysis.</li> <li>A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>					
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>ICAL (Criteria: <math>\leq 15</math> mean %RSD with individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> </li> <li>ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>If %D <math>&gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>If RF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>	✓				
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 136542: 680-89220-21 (FM0147A-CS), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>If the native sample concentration <math>&gt; 4x</math> spiking level, then an evaluation of interference is not possible.</li> <li>If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> </ul>	✓				

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>• MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>• MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>• MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>					
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>• If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result</li> </ul>	✓				
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> <li>• If %R for 1 Acid or BN surrogates &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>• If 2 or more Acid or BN %R &gt;UCL, then J-flag positive results</li> <li>• If 2 or more Acid or BN %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>• If 2 or more Acid or BN , with 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <ul style="list-style-type: none"> <li>• If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>• If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>• If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>• The chromatographic profile for that sample must be</li> </ul>	✓				

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to <b>Attachment B</b> (Case Narrative)	
<p><b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (<b>Attachment D</b>). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

**DV Flag Definitions:**

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
SDG: 68089220-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89220-21	FM0147A-CS	Solid	04/09/13 09:30	04/11/13 10:45
680-89220-22	FM0147B-CS	Solid	04/09/13 09:40	04/11/13 10:45
680-89220-23	FM0249A-CS	Solid	04/09/13 09:10	04/11/13 10:45
680-89220-24	FM0252A-CS	Solid	04/09/13 08:40	04/11/13 10:45
680-89220-25	FM0252B-CS	Solid	04/09/13 08:50	04/11/13 10:45
680-89220-26	FM0252B-CSD	Solid	04/09/13 08:50	04/11/13 10:45
680-89220-27	FM0351A-CS	Solid	04/09/13 12:35	04/11/13 10:45
680-89220-28	FM0351B-CS	Solid	04/09/13 12:45	04/11/13 10:45
680-89220-29	FM0351C-CS	Solid	04/09/13 12:55	04/11/13 10:45
680-89220-30	CV0675A-CS-SP	Solid	04/09/13 12:42	04/11/13 10:45
680-89220-31	CV0675B-CS-SP	Solid	04/09/13 12:52	04/11/13 10:45
680-89220-32	CV0928A-CS-SP	Solid	04/09/13 13:15	04/11/13 10:45
680-89220-33	CV0928B-CS-SP	Solid	04/09/13 13:25	04/11/13 10:45
680-89220-34	CV1337A-CS-SP	Solid	04/09/13 14:16	04/11/13 10:45
680-89220-35	CV1337B-CS-SP	Solid	04/09/13 14:25	04/11/13 10:45
680-89220-36	CV1338A-CS-SP	Solid	04/09/13 14:43	04/11/13 10:45
680-89220-37	CV1338B-CS-SP	Solid	04/09/13 14:52	04/11/13 10:45
680-89220-38	HP0140A-CS-SP	Solid	04/09/13 10:11	04/11/13 10:45
680-89220-39	HP0140B-CS-SP	Solid	04/09/13 10:22	04/11/13 10:45
680-89220-40	HP0142A-CS-SP	Solid	04/09/13 09:37	04/11/13 10:45

**ATTACHMENT B**  
**CASE NARRATIVE**



# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
SDG: 68089220-2

**Job ID: 680-89220-2**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89220-2**

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 04/11/2013 in Savannah; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt in Savannah was 2.2 C. Savannah shipped the samples for 8270 PAH analysis to Tampa on 04/11/2013. FEDEX lost track of the cooler, and did not deliver until 04/15/2013. The coolers were out of temp at receipt in Tampa.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0147A-CS (680-89220-21), FM0147B-CS (680-89220-22), FM0249A-CS (680-89220-23), FM0252A-CS (680-89220-24), FM0252B-CS (680-89220-25), FM0252B-CSD (680-89220-26), FM0351A-CS (680-89220-27), FM0351B-CS (680-89220-28), FM0351C-CS (680-89220-29), CV0675A-CS-SP (680-89220-30), CV0675B-CS-SP (680-89220-31), CV0928A-CS-SP (680-89220-32), CV0928B-CS-SP (680-89220-33), CV1337A-CS-SP (680-89220-34), CV1337B-CS-SP (680-89220-35), CV1338A-CS-SP (680-89220-36), CV1338B-CS-SP (680-89220-37), HP0140A-CS-SP (680-89220-38), HP0140B-CS-SP (680-89220-39) and HP0142A-CS-SP (680-89220-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013 and 04/19/2013.

Sample FM0351B-CS (680-89220-28)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

**ATTACHMENT C**  
**FIELD DUPLICATE EVALUATION**

Evaluation of Field Duplicate Results

Analyte	FM0252B-CS 680-89220-25	RL	FM0252B-CSD 680-89220-26	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	34	J 130	120	J 150	µg/kg	700	NA	86	280	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	74	53	61	60	µg/kg	282.5	NA	13	113	None, absolute difference ≤ 2x Avg RL
Anthracene	110	11	230	13	µg/kg	60	71	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)anthracene	580	11	1100	12	µg/kg	57.5	62	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	480	14	960	16	µg/kg	75	67	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	850	16	1800	18	µg/kg	85	72	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	400	26	850	30	µg/kg	140	72	NA	NA	J/UJ-flag, RPD > 50%
Benzo(k)fluoranthene	350	11	640	12	µg/kg	57.5	59	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	570	12	1300	14	µg/kg	65	78	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	150	26	300	30	µg/kg	140	67	NA	NA	J/UJ-flag, RPD > 50%
Fluoranthene	840	26	1900	30	µg/kg	140	77	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	25	J 26	110	30	µg/kg	140	NA	85	56	J/UJ-flag, absolute difference > 2x Avg RL
Indeno(1,2,3-cd)pyrene	360	26	690	30	µg/kg	140	63	NA	NA	J/UJ-flag, RPD > 50%
1-Methylnaphthalene	210	53	140	60	µg/kg	282.5	NA	70	113	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	250	53	170	60	µg/kg	282.5	NA	80	113	None, absolute difference ≤ 2x Avg RL
Naphthalene	160	53	150	60	µg/kg	282.5	NA	10	113	None, absolute difference ≤ 2x Avg RL
Phenanthrene	560	11	940	12	µg/kg	57.5	51	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	730	26	1700	30	µg/kg	140	80	NA	NA	J/UJ-flag, RPD > 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2



**Client Sample ID: FM0147A-CS**

**Lab Sample ID: 680-89220-21**

Date Collected: 04/09/13 09:30

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Acenaphthylene	67	U	59	7.3	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Anthracene	50	U	12	6.1	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Benzo[a]anthracene	260	U	12	5.7	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Benzo[a]pyrene	250	U	15	7.6	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Benzo[b]fluoranthene	420	U	18	8.9	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Benzo[g,h,i]perylene	190	U	29	6.4	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Benzo[k]fluoranthene	150	U	12	5.3	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Chrysene	260	U	13	6.6	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Dibenz(a,h)anthracene	98	U	29	6.0	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Fluoranthene	330	U	29	5.9	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Fluorene	8.5	U	29	6.0	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Indeno[1,2,3-cd]pyrene	210	U	29	10	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
1-Methylnaphthalene	51	U	59	6.4	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
2-Methylnaphthalene	72	U	59	10	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Naphthalene	110	U	59	6.4	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Phenanthrene	110	U	12	5.7	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
Pyrene	320	U	29	5.4	ug/Kg	☒	04/17/13 13:21	04/18/13 17:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	80		30 - 130				04/17/13 13:21	04/18/13 17:12	1

**Client Sample ID: FM0147B-CS**

**Lab Sample ID: 680-89220-22**

Date Collected: 04/09/13 09:40

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 76.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	32	U	130	26	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Acenaphthylene	40	U	53	6.6	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Anthracene	51	U	11	5.5	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Benzo[a]anthracene	240	U	11	5.1	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Benzo[a]pyrene	210	U	14	6.8	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Benzo[b]fluoranthene	370	U	16	8.0	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Benzo[g,h,i]perylene	190	U	26	5.8	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Benzo[k]fluoranthene	170	U	11	4.7	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Chrysene	320	U	12	5.9	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Dibenz(a,h)anthracene	110	U	26	5.4	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Fluoranthene	370	U	26	5.3	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Fluorene	32	U	26	5.4	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Indeno[1,2,3-cd]pyrene	150	U	26	9.3	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
1-Methylnaphthalene	190	U	53	5.8	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
2-Methylnaphthalene	210	U	53	9.3	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Naphthalene	150	U	53	5.8	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Phenanthrene	420	U	11	5.1	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
Pyrene	370	U	26	4.9	ug/Kg	☒	04/17/13 13:21	04/18/13 18:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	76		30 - 130				04/17/13 13:21	04/18/13 18:07	1

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Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0249A-CS**

**Lab Sample ID: 680-89220-23**

Date Collected: 04/09/13 09:10

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 78.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	63	J	130	26	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Acenaphthylene	250	J	52	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Anthracene	360	J	11	5.4	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Benzo[a]anthracene	1300	J	10	5.0	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Benzo[a]pyrene	1300	J	13	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Benzo[b]fluoranthene	2500	J	16	7.9	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Benzo[g,h,i]perylene	1200	J	26	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Benzo[k]fluoranthene	1300	J	10	4.6	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Chrysene	1500	J	12	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Dibenz(a,h)anthracene	390	J	26	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Fluoranthene	2700	J	26	5.2	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Fluorene	66	J	26	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Indeno[1,2,3-cd]pyrene	940	J	26	9.1	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
1-Methylnaphthalene	130	J	52	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
2-Methylnaphthalene	180	J	52	9.1	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Naphthalene	220	J	52	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Phenanthrene	1500	J	10	5.0	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
Pyrene	2300	J	26	4.8	ug/Kg	*	04/17/13 13:21	04/18/13 18:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	74		30 - 130				04/17/13 13:21	04/18/13 18:25	1

**Client Sample ID: FM0252A-CS**

**Lab Sample ID: 680-89220-24**

Date Collected: 04/09/13 08:40

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Acenaphthylene	51	J	57	7.1	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Anthracene	49	J	12	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Benzo[a]anthracene	270	J	11	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Benzo[a]pyrene	320	J	15	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Benzo[b]fluoranthene	520	J	17	8.6	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Benzo[g,h,i]perylene	270	J	28	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Benzo[k]fluoranthene	280	J	11	5.1	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Chrysene	350	J	13	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Dibenz(a,h)anthracene	140	J	28	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Fluoranthene	520	J	28	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Fluorene	27	J	28	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Indeno[1,2,3-cd]pyrene	250	J	28	10	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
1-Methylnaphthalene	45	J	57	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
2-Methylnaphthalene	110	J	57	10	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Naphthalene	150	J	57	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Phenanthrene	250	J	11	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
Pyrene	520	J	28	5.2	ug/Kg	*	04/17/13 13:21	04/18/13 18:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	48		30 - 130				04/17/13 13:21	04/18/13 18:44	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0252B-CS**

**Lab Sample ID: 680-89220-25**

Date Collected: 04/09/13 08:50

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 75.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34		130	26	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Acenaphthylene	74		53	6.6	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Anthracene	110		11	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Benzo[a]anthracene	580		11	5.1	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Benzo[a]pyrene	480		14	6.9	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Benzo[b]fluoranthene	850		16	8.0	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Benzo[g,h,i]perylene	400		26	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Benzo[k]fluoranthene	350		11	4.7	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Chrysene	570		12	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Dibenz(a,h)anthracene	150		26	5.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Fluoranthene	840		26	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Fluorene	25		26	5.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Indeno[1,2,3-cd]pyrene	360		26	9.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
1-Methylnaphthalene	210		53	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
2-Methylnaphthalene	250		53	9.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Naphthalene	160		53	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Phenanthrene	560		11	5.1	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
Pyrene	730		26	4.9	ug/Kg	*	04/17/13 13:21	04/18/13 19:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	84		30 - 130				04/17/13 13:21	04/18/13 19:02	1

**Client Sample ID: FM0252B-CSD**

**Lab Sample ID: 680-89220-26**

Date Collected: 04/09/13 08:50

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 66.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120		150	30	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Acenaphthylene	61		60	7.6	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Anthracene	230		13	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Benzo[a]anthracene	1100		12	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Benzo[a]pyrene	960		16	7.9	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Benzo[b]fluoranthene	1800		18	9.2	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Benzo[g,h,i]perylene	850		30	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Benzo[k]fluoranthene	640		12	5.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Chrysene	1300		14	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Dibenz(a,h)anthracene	300		30	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Fluoranthene	1900		30	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Fluorene	110		30	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Indeno[1,2,3-cd]pyrene	690		30	11	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
1-Methylnaphthalene	140		60	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
2-Methylnaphthalene	170		60	11	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Naphthalene	150		60	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Phenanthrene	940		12	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
Pyrene	1700		30	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 19:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	87		30 - 130				04/17/13 13:21	04/18/13 19:20	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0351A-CS**

**Lab Sample ID: 680-89220-27**

Date Collected: 04/09/13 12:35

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 65.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	150	30	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Acenaphthylene	20	J	59	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Anthracene	26	J	12	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Benzo[a]anthracene	190	J	12	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Benzo[a]pyrene	180	J	15	7.7	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Benzo[b]fluoranthene	290	J	18	9.1	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Benzo[g,h,i]perylene	130	J	30	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Benzo[k]fluoranthene	120	J	12	5.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Chrysene	210	J	13	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Dibenz(a,h)anthracene	94	J	30	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Fluoranthene	380	J	30	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Fluorene	13	J	30	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Indeno[1,2,3-cd]pyrene	170	J	30	11	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
1-Methylnaphthalene	13	J	59	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
2-Methylnaphthalene	48	J	59	11	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Naphthalene	42	J	59	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Phenanthrene	150	J	12	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
Pyrene	300	J	30	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 19:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	70		30 - 130				04/17/13 13:21	04/18/13 19:39	1

**Client Sample ID: FM0351B-CS**

**Lab Sample ID: 680-89220-28**

Date Collected: 04/09/13 12:45

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100	J	150	29	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
Acenaphthylene	640	J	58	7.3	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
Anthracene	3700	J	12	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
Dibenz(a,h)anthracene	4400	J	29	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
Fluorene	1300	J	29	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
1-Methylnaphthalene	390	J	58	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
2-Methylnaphthalene	370	J	58	10	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
Naphthalene	500	J	58	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 19:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	86		30 - 130				04/17/13 13:21	04/18/13 19:57	1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	19000	J	230	110	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Benzo[a]pyrene	18000	J	300	150	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Benzo[b]fluoranthene	27000	J	350	180	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Benzo[g,h,i]perylene	11000	J	580	130	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Benzo[k]fluoranthene	11000	J	230	100	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Chrysene	17000	J	260	130	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Fluoranthene	43000	J	580	120	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Indeno[1,2,3-cd]pyrene	10000	J	580	210	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0351B-CS**

**Lab Sample ID: 680-89220-28**

Date Collected: 04/09/13 12:45

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	20000	U	230	110	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20
Pyrene	32000	U	580	110	ug/Kg	*	04/17/13 13:21	04/19/13 21:50	20

**Client Sample ID: FM0351C-CS**

**Lab Sample ID: 680-89220-29**

Date Collected: 04/09/13 12:55

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 72.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Acenaphthylene	22	U	54	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Anthracene	81	U	11	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Benzo[a]anthracene	200	U	11	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Benzo[a]pyrene	220	U	14	7.1	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Benzo[b]fluoranthene	460	U	17	8.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Benzo[g,h,i]perylene	200	U	27	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Benzo[k]fluoranthene	120	U	11	4.9	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Chrysene	330	U	12	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Dibenz(a,h)anthracene	85	U	27	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Fluoranthene	480	U	27	5.4	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Fluorene	35	U	27	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Indeno[1,2,3-cd]pyrene	210	U	27	9.7	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
1-Methylnaphthalene	70	U	54	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
2-Methylnaphthalene	77	U	54	9.7	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Naphthalene	81	U	54	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Phenanthrene	260	U	11	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1
Pyrene	430	U	27	5.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		30 - 130	04/17/13 13:21	04/18/13 20:15	1

**Client Sample ID: CV0675A-CS-SP**

**Lab Sample ID: 680-89220-30**

Date Collected: 04/09/13 12:42

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 64.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Acenaphthylene	44	U	61	7.7	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Anthracene	86	U	13	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Benzo[a]anthracene	200	U	12	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Benzo[a]pyrene	280	U	16	8.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Benzo[b]fluoranthene	520	U	19	9.4	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Benzo[g,h,i]perylene	200	U	31	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Benzo[k]fluoranthene	170	U	12	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Chrysene	380	U	14	6.9	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Dibenz(a,h)anthracene	130	U	31	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Fluoranthene	260	U	31	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Fluorene	12	U	31	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Indeno[1,2,3-cd]pyrene	240	U	31	11	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1

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Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: CV0675A-CS-SP**

**Lab Sample ID: 680-89220-30**

Date Collected: 04/09/13 12:42

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 64.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	120	J	61	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
2-Methylnaphthalene	170	J	61	11	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Naphthalene	180	J	61	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Phenanthrene	230	J	12	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
Pyrene	250	J	31	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 20:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	81		30 - 130				04/17/13 13:21	04/18/13 20:34	1

**Client Sample ID: CV0675B-CS-SP**

**Lab Sample ID: 680-89220-31**

Date Collected: 04/09/13 12:52

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Acenaphthylene	48	J	57	7.1	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Anthracene	42	J	12	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Benzo[a]anthracene	170	J	11	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Benzo[a]pyrene	160	J	15	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Benzo[b]fluoranthene	290	J	17	8.7	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Benzo[g,h,i]perylene	120	J	29	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Benzo[k]fluoranthene	170	J	11	5.1	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Chrysene	260	J	13	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Dibenz(a,h)anthracene	29	U	29	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Fluoranthene	490	J	29	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Fluorene	14	J	29	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Indeno[1,2,3-cd]pyrene	180	J	29	10	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
1-Methylnaphthalene	50	J	57	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
2-Methylnaphthalene	69	J	57	10	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Naphthalene	80	J	57	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Phenanthrene	380	J	11	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
Pyrene	370	J	29	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 20:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 20:52	1

**Client Sample ID: CV0928A-CS-SP**

**Lab Sample ID: 680-89220-32**

Date Collected: 04/09/13 13:15

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 63.5

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	*	04/17/13 13:21	04/18/13 21:10	1
Acenaphthylene	34	J	62	7.8	ug/Kg	*	04/17/13 13:21	04/18/13 21:10	1
Anthracene	20	J	13	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 21:10	1
Benzo[a]anthracene	110	J	12	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 21:10	1
Benzo[a]pyrene	86	J	16	8.1	ug/Kg	*	04/17/13 13:21	04/18/13 21:10	1
Benzo[b]fluoranthene	180	J	19	9.5	ug/Kg	*	04/17/13 13:21	04/18/13 21:10	1
Benzo[g,h,i]perylene	73	J	31	6.9	ug/Kg	*	04/17/13 13:21	04/18/13 21:10	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: CV0928A-CS-SP**

**Lab Sample ID: 680-89220-32**

Date Collected: 04/09/13 13:15

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 63.5

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	23	J	12	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Chrysene	86	J	14	7.0	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Dibenz(a,h)anthracene	31	U J	31	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Fluoranthene	100	J	31	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Fluorene	31	U J	31	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Indeno[1,2,3-cd]pyrene	150	J	31	11	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
1-Methylnaphthalene	34	J	62	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
2-Methylnaphthalene	67	J	62	11	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Naphthalene	28	J	62	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Phenanthrene	68	J	12	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Pyrene	120	J	31	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	82		30 - 130				04/17/13 13:21	04/18/13 21:10	1

**Client Sample ID: CV0928B-CS-SP**

**Lab Sample ID: 680-89220-33**

Date Collected: 04/09/13 13:25

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 58.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U J	170	33	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Acenaphthylene	32	J	67	8.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Anthracene	42	J	14	7.0	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[a]anthracene	89	J	13	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[a]pyrene	130	J	17	8.7	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[b]fluoranthene	220	J	20	10	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[g,h,i]perylene	100	J	33	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[k]fluoranthene	97	J	13	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Chrysene	180	J	15	7.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Dibenz(a,h)anthracene	100	J	33	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Fluoranthene	170	J	33	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Fluorene	11	J	33	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Indeno[1,2,3-cd]pyrene	160	J	33	12	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
1-Methylnaphthalene	41	J	67	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
2-Methylnaphthalene	110	J	67	12	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Naphthalene	55	J	67	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Phenanthrene	110	J	13	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Pyrene	190	J	33	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	80		30 - 130				04/17/13 13:21	04/18/13 21:29	1

**Client Sample ID: CV1337A-CS-SP**

**Lab Sample ID: 680-89220-34**

Date Collected: 04/09/13 14:16

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 60.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U J	170	34	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: CV1337A-CS-SP**

**Lab Sample ID: 680-89220-34**

Date Collected: 04/09/13 14:16

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 60.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	170	J	67	8.4	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Anthracene	66	J	14	7.1	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Benzo[a]anthracene	620	J	13	6.6	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Benzo[a]pyrene	610	J	18	8.8	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Benzo[b]fluoranthene	1000	J	21	10	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Benzo[g,h,i]perylene	440	J	34	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Benzo[k]fluoranthene	370	J	13	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Chrysene	630	J	15	7.6	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Dibenz(a,h)anthracene	180	J	34	6.9	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Fluoranthene	850	J	34	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Fluorene	21	J	34	6.9	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Indeno[1,2,3-cd]pyrene	510	J	34	12	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
1-Methylnaphthalene	32	J	67	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
2-Methylnaphthalene	87	J	67	12	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Naphthalene	58	J	67	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Phenanthrene	200	J	13	6.6	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
Pyrene	890	J	34	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 21:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 21:47	1

**Client Sample ID: CV1337B-CS-SP**

**Lab Sample ID: 680-89220-35**

Date Collected: 04/09/13 14:25

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 58.8

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Acenaphthylene	210	J	66	8.2	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Anthracene	89	J	14	6.9	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Benzo[a]anthracene	670	J	13	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Benzo[a]pyrene	600	J	17	8.6	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Benzo[b]fluoranthene	1100	J	20	10	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Benzo[g,h,i]perylene	590	J	33	7.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Benzo[k]fluoranthene	430	J	13	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Chrysene	690	J	15	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Dibenz(a,h)anthracene	200	J	33	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Fluoranthene	1300	J	33	6.6	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Fluorene	59	J	33	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Indeno[1,2,3-cd]pyrene	470	J	33	12	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
1-Methylnaphthalene	34	J	66	7.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
2-Methylnaphthalene	93	J	66	12	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Naphthalene	150	J	66	7.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Phenanthrene	480	J	13	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
Pyrene	1200	J	33	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 22:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 22:05	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: CV1338A-CS-SP**

**Lab Sample ID: 680-89220-36**

Date Collected: 04/09/13 14:43

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 65.2

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Acenaphthylene	22	J	61	7.7	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Anthracene	27	J	13	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Benzo[a]anthracene	140	J	12	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Benzo[a]pyrene	140	J	16	8.0	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Benzo[b]fluoranthene	250	J	19	9.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Benzo[g,h,i]perylene	120	J	31	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Benzo[k]fluoranthene	80	J	12	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Chrysene	150	J	14	6.9	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Dibenz(a,h)anthracene	31	U	31	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Fluoranthene	210	J	31	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Fluorene	27	J	31	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Indeno[1,2,3-cd]pyrene	170	J	31	11	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
1-Methylnaphthalene	86	J	61	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
2-Methylnaphthalene	100	J	61	11	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Naphthalene	70	J	61	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Phenanthrene	180	J	12	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1
Pyrene	240	J	31	5.7	ug/Kg	*	04/17/13 13:21	04/18/13 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		30 - 130	04/17/13 13:21	04/18/13 22:24	1

**Client Sample ID: CV1338B-CS-SP**

**Lab Sample ID: 680-89220-37**

Date Collected: 04/09/13 14:52

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Acenaphthylene	15	J	58	7.2	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Anthracene	21	J	12	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Benzo[a]anthracene	98	J	12	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Benzo[a]pyrene	68	J	15	7.5	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Benzo[b]fluoranthene	80	J	18	8.8	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Benzo[g,h,i]perylene	66	J	29	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Benzo[k]fluoranthene	66	J	12	5.2	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Chrysene	69	J	13	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Dibenz(a,h)anthracene	29	U	29	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Fluoranthene	90	J	29	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Fluorene	11	J	29	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Indeno[1,2,3-cd]pyrene	100	J	29	10	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
1-Methylnaphthalene	60	J	58	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
2-Methylnaphthalene	81	J	58	10	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Naphthalene	66	J	58	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Phenanthrene	99	J	12	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1
Pyrene	110	J	29	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		30 - 130	04/17/13 13:21	04/18/13 22:42	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: HP0140A-CS-SP**

**Lab Sample ID: 680-89220-38**

Date Collected: 04/09/13 10:11

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Acenaphthylene	29		59	7.4	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Anthracene	20		12	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Benzo[a]anthracene	57		12	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Benzo[a]pyrene	67		15	7.7	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Benzo[b]fluoranthene	110		18	9.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Benzo[g,h,i]perylene	84		30	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Benzo[k]fluoranthene	76		12	5.3	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Chrysene	140		13	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Dibenz(a,h)anthracene	30	U	30	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Fluoranthene	100		30	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Fluorene	42		30	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Indeno[1,2,3-cd]pyrene	110		30	11	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
1-Methylnaphthalene	150		59	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
2-Methylnaphthalene	130		59	11	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Naphthalene	94		59	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Phenanthrene	200		12	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
Pyrene	110		30	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 23:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 23:00	1

**Client Sample ID: HP0140B-CS-SP**

**Lab Sample ID: 680-89220-39**

Date Collected: 04/09/13 10:22

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 61.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Acenaphthylene	46		65	8.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Anthracene	26		14	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Benzo[a]anthracene	80		13	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Benzo[a]pyrene	110		17	8.4	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Benzo[b]fluoranthene	190		20	9.9	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Benzo[g,h,i]perylene	94		32	7.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Benzo[k]fluoranthene	67		13	5.8	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Chrysene	140		15	7.3	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Dibenz(a,h)anthracene	32	U	32	6.6	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Fluoranthene	97		32	6.5	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Fluorene	14		32	6.6	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Indeno[1,2,3-cd]pyrene	140		32	11	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
1-Methylnaphthalene	66		65	7.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
2-Methylnaphthalene	110		65	11	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Naphthalene	77		65	7.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Phenanthrene	88		13	6.3	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
Pyrene	140		32	6.0	ug/Kg	*	04/17/13 13:21	04/18/13 23:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	80		30 - 130				04/17/13 13:21	04/18/13 23:19	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: HP0142A-CS-SP**

**Lab Sample ID: 680-89220-40**

Date Collected: 04/09/13 09:37

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 66.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Acenaphthylene	43	U	61	7.6	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Anthracene	81	U	13	6.4	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Benzo[a]anthracene	160	U	12	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Benzo[a]pyrene	210	U	16	7.9	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Benzo[b]fluoranthene	380	U	19	9.3	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Benzo[g,h,i]perylene	150	U	30	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Benzo[k]fluoranthene	210	U	12	5.5	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Chrysene	210	U	14	6.8	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Dibenz(a,h)anthracene	110	U	30	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Fluoranthene	200	U	30	6.1	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Fluorene	15	U	30	6.2	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Indeno[1,2,3-cd]pyrene	200	U	30	11	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
1-Methylnaphthalene	580	U	61	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
2-Methylnaphthalene	930	U	61	11	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Naphthalene	1000	U	61	6.7	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Phenanthrene	420	U	12	5.9	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
Pyrene	250	U	30	5.6	ug/Kg	*	04/17/13 13:21	04/18/13 23:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	79		30 - 130				04/17/13 13:21	04/18/13 23:37	1



## ANALYTICAL REPORT

Job Number: 680-89220-2

SDG Number: 68089220-2

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  
4/23/2013 9:01 AM

---

Designee for  
Lisa Harvey  
Project Manager II  
lisa.harvey@testamericainc.com  
04/23/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89220-2**

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 04/11/2013 in Savannah; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt in Savannah was 2.2 C. Savannah shipped the samples for 8270 PAH analysis to Tampa on 04/11/2013. FEDEX lost track of the cooler, and did not deliver until 04/15/2013. The coolers were out of temp at receipt in Tampa.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0147A-CS (680-89220-21), FM0147B-CS (680-89220-22), FM0249A-CS (680-89220-23), FM0252A-CS (680-89220-24), FM0252B-CS (680-89220-25), FM0252B-CSD (680-89220-26), FM0351A-CS (680-89220-27), FM0351B-CS (680-89220-28), FM0351C-CS (680-89220-29), CV0675A-CS-SP (680-89220-30), CV0675B-CS-SP (680-89220-31), CV0928A-CS-SP (680-89220-32), CV0928B-CS-SP (680-89220-33), CV1337A-CS-SP (680-89220-34), CV1337B-CS-SP (680-89220-35), CV1338A-CS-SP (680-89220-36), CV1338B-CS-SP (680-89220-37), HP0140A-CS-SP (680-89220-38), HP0140B-CS-SP (680-89220-39) and HP0142A-CS-SP (680-89220-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013 and 04/19/2013.

Sample FM0351B-CS (680-89220-28)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2

Sdg Number: 68089220-2

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-89220-21	FM0147A-CS	Solid	04/09/2013 0930	04/11/2013 1045
680-89220-21MS	FM0147A-CS	Solid	04/09/2013 0930	04/11/2013 1045
680-89220-21MSD	FM0147A-CS	Solid	04/09/2013 0930	04/11/2013 1045
680-89220-22	FM0147B-CS	Solid	04/09/2013 0940	04/11/2013 1045
680-89220-23	FM0249A-CS	Solid	04/09/2013 0910	04/11/2013 1045
680-89220-24	FM0252A-CS	Solid	04/09/2013 0840	04/11/2013 1045
680-89220-25	FM0252B-CS	Solid	04/09/2013 0850	04/11/2013 1045
680-89220-26	FM0252B-CSD	Solid	04/09/2013 0850	04/11/2013 1045
680-89220-27	FM0351A-CS	Solid	04/09/2013 1235	04/11/2013 1045
680-89220-28	FM0351B-CS	Solid	04/09/2013 1245	04/11/2013 1045
680-89220-29	FM0351C-CS	Solid	04/09/2013 1255	04/11/2013 1045
680-89220-30	CV0675A-CS-SP	Solid	04/09/2013 1242	04/11/2013 1045
680-89220-31	CV0675B-CS-SP	Solid	04/09/2013 1252	04/11/2013 1045
680-89220-32	CV0928A-CS-SP	Solid	04/09/2013 1315	04/11/2013 1045
680-89220-33	CV0928B-CS-SP	Solid	04/09/2013 1325	04/11/2013 1045
680-89220-34	CV1337A-CS-SP	Solid	04/09/2013 1416	04/11/2013 1045
680-89220-35	CV1337B-CS-SP	Solid	04/09/2013 1425	04/11/2013 1045
680-89220-36	CV1338A-CS-SP	Solid	04/09/2013 1443	04/11/2013 1045
680-89220-37	CV1338B-CS-SP	Solid	04/09/2013 1452	04/11/2013 1045
680-89220-38	HP0140A-CS-SP	Solid	04/09/2013 1011	04/11/2013 1045
680-89220-39	HP0140B-CS-SP	Solid	04/09/2013 1022	04/11/2013 1045
680-89220-40	HP0142A-CS-SP	Solid	04/09/2013 0937	04/11/2013 1045

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2  
Sdg Number: 68089220-2

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Solid</b>			
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: 680-89220-2

Sdg Number: 68089220-2

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2

Sdg Number: 68089220-2

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2

Sdg Number: 68089220-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-136542</b>					
LCS 660-136542/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136542/1-A	Method Blank	T	Solid	3546	
680-89220-21	FM0147A-CS	T	Solid	3546	
680-89220-21MS	Matrix Spike	T	Solid	3546	
680-89220-21MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89220-22	FM0147B-CS	T	Solid	3546	
680-89220-23	FM0249A-CS	T	Solid	3546	
680-89220-24	FM0252A-CS	T	Solid	3546	
680-89220-25	FM0252B-CS	T	Solid	3546	
680-89220-26	FM0252B-CSD	T	Solid	3546	
680-89220-27	FM0351A-CS	T	Solid	3546	
680-89220-28	FM0351B-CS	T	Solid	3546	
680-89220-28DL	FM0351B-CS	T	Solid	3546	
680-89220-29	FM0351C-CS	T	Solid	3546	
680-89220-30	CV0675A-CS-SP	T	Solid	3546	
680-89220-31	CV0675B-CS-SP	T	Solid	3546	
680-89220-32	CV0928A-CS-SP	T	Solid	3546	
680-89220-33	CV0928B-CS-SP	T	Solid	3546	
680-89220-34	CV1337A-CS-SP	T	Solid	3546	
680-89220-35	CV1337B-CS-SP	T	Solid	3546	
680-89220-36	CV1338A-CS-SP	T	Solid	3546	
680-89220-37	CV1338B-CS-SP	T	Solid	3546	
680-89220-38	HP0140A-CS-SP	T	Solid	3546	
680-89220-39	HP0140B-CS-SP	T	Solid	3546	
680-89220-40	HP0142A-CS-SP	T	Solid	3546	



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2

Sdg Number: 68089220-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:660-136605</b>					
LCS 660-136542/2-A	Lab Control Sample	T	Solid	8270C LL	660-136542
MB 660-136542/1-A	Method Blank	T	Solid	8270C LL	660-136542
680-89220-21	FM0147A-CS	T	Solid	8270C LL	660-136542
680-89220-21MS	Matrix Spike	T	Solid	8270C LL	660-136542
680-89220-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136542
680-89220-22	FM0147B-CS	T	Solid	8270C LL	660-136542
680-89220-23	FM0249A-CS	T	Solid	8270C LL	660-136542
680-89220-24	FM0252A-CS	T	Solid	8270C LL	660-136542
680-89220-25	FM0252B-CS	T	Solid	8270C LL	660-136542
680-89220-26	FM0252B-CSD	T	Solid	8270C LL	660-136542
680-89220-27	FM0351A-CS	T	Solid	8270C LL	660-136542
680-89220-28	FM0351B-CS	T	Solid	8270C LL	660-136542
680-89220-29	FM0351C-CS	T	Solid	8270C LL	660-136542
680-89220-30	CV0675A-CS-SP	T	Solid	8270C LL	660-136542
680-89220-31	CV0675B-CS-SP	T	Solid	8270C LL	660-136542
680-89220-32	CV0928A-CS-SP	T	Solid	8270C LL	660-136542
680-89220-33	CV0928B-CS-SP	T	Solid	8270C LL	660-136542
680-89220-34	CV1337A-CS-SP	T	Solid	8270C LL	660-136542
680-89220-35	CV1337B-CS-SP	T	Solid	8270C LL	660-136542
680-89220-36	CV1338A-CS-SP	T	Solid	8270C LL	660-136542
680-89220-37	CV1338B-CS-SP	T	Solid	8270C LL	660-136542
680-89220-38	HP0140A-CS-SP	T	Solid	8270C LL	660-136542
680-89220-39	HP0140B-CS-SP	T	Solid	8270C LL	660-136542
680-89220-40	HP0142A-CS-SP	T	Solid	8270C LL	660-136542
<b>Analysis Batch:660-136655</b>					
680-89220-28DL	FM0351B-CS	T	Solid	8270C LL	660-136542

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2

Sdg Number: 68089220-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-136459</b>					
680-89220-A-9 MS	Matrix Spike	T	Solid	Moisture	
680-89220-A-9 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89220-21	FM0147A-CS	T	Solid	Moisture	
680-89220-22	FM0147B-CS	T	Solid	Moisture	
680-89220-23	FM0249A-CS	T	Solid	Moisture	
680-89220-24	FM0252A-CS	T	Solid	Moisture	
680-89220-25	FM0252B-CS	T	Solid	Moisture	
680-89220-26	FM0252B-CSD	T	Solid	Moisture	
680-89220-27	FM0351A-CS	T	Solid	Moisture	
680-89220-28	FM0351B-CS	T	Solid	Moisture	
680-89220-29	FM0351C-CS	T	Solid	Moisture	
680-89220-30	CV0675A-CS-SP	T	Solid	Moisture	
680-89220-31	CV0675B-CS-SP	T	Solid	Moisture	
680-89220-32	CV0928A-CS-SP	T	Solid	Moisture	
680-89220-33	CV0928B-CS-SP	T	Solid	Moisture	
680-89220-34	CV1337A-CS-SP	T	Solid	Moisture	
680-89220-35	CV1337B-CS-SP	T	Solid	Moisture	
680-89220-36	CV1338A-CS-SP	T	Solid	Moisture	
680-89220-37	CV1338B-CS-SP	T	Solid	Moisture	
680-89220-38	HP0140A-CS-SP	T	Solid	Moisture	
680-89220-39	HP0140B-CS-SP	T	Solid	Moisture	
680-89220-40	HP0142A-CS-SP	T	Solid	Moisture	

**Report Basis**

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: ICIS 660-136370/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/11/13 11:56 Lab File ID: 1CD11003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 12:40

Lab Sample ID: IC 660-136370/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/11/13 12:35 Lab File ID: 1CD11004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/11/13 12:53 Lab File ID: 1CD11005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:34
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/11/13 13:11 Lab File ID: 1CD11006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:35

Lab Sample ID: IC 660-136370/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/11/13 13:30 Lab File ID: 1CD11007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2

SDG No.: 68089220-2

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: IC 660-136370/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/11/13 13:48 Lab File ID: 1CD11008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

Lab Sample ID: IC 660-136370/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/11/13 14:06 Lab File ID: 1CD11009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:37

Lab Sample ID: ICV 660-136370/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/11/13 14:25 Lab File ID: 1CD11010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:46

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973 Analysis Batch Number: 136605Lab Sample ID: CCVIS 660-136605/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/18/13 12:01 Lab File ID: 1CD18003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/18/13 12:15

Lab Sample ID: LCS 660-136542/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/18/13 16:54 Lab File ID: 1CD18019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/19/13 10:02

Lab Sample ID: 680-89220-21 Client Sample ID: FM0147A-CSDate Analyzed: 04/18/13 17:12 Lab File ID: 1CD18020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 10:55
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 10:55
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/19/13 10:55

Lab Sample ID: 680-89220-21 MS Client Sample ID: FM0147A-CS MSDate Analyzed: 04/18/13 17:30 Lab File ID: 1CD18021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/19/13 10:55

Lab Sample ID: 680-89220-21 MSD Client Sample ID: FM0147A-CS MSDDate Analyzed: 04/18/13 17:49 Lab File ID: 1CD18022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/19/13 10:56

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973 Analysis Batch Number: 136605Lab Sample ID: 680-89220-22 Client Sample ID: FM0147B-CSDate Analyzed: 04/18/13 18:07 Lab File ID: 1CD18023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/19/13 11:17
Dibenz(a,h)anthracene	9.90	Baseline Event	cantins	04/19/13 11:16
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/19/13 11:16

Lab Sample ID: 680-89220-23 Client Sample ID: FM0249A-CSDate Analyzed: 04/18/13 18:25 Lab File ID: 1CD18024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.46	Split Peak	cantins	04/19/13 11:18
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 11:19
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 11:19

Lab Sample ID: 680-89220-24 Client Sample ID: FM0252A-CSDate Analyzed: 04/18/13 18:44 Lab File ID: 1CD18025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 11:20
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 11:20
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 11:20

Lab Sample ID: 680-89220-25 Client Sample ID: FM0252B-CSDate Analyzed: 04/18/13 19:02 Lab File ID: 1CD18026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 11:23
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 11:23
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 11:23

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973 Analysis Batch Number: 136605Lab Sample ID: 680-89220-26 Client Sample ID: FM0252B-CSDDate Analyzed: 04/18/13 19:20 Lab File ID: 1CD18027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 11:24
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/19/13 11:24
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 11:24

Lab Sample ID: 680-89220-27 Client Sample ID: FM0351A-CSDate Analyzed: 04/18/13 19:39 Lab File ID: 1CD18028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/19/13 11:26
Dibenz(a,h)anthracene	9.91	Baseline Event	cantins	04/19/13 11:25
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/19/13 11:26

Lab Sample ID: 680-89220-29 Client Sample ID: FM0351C-CSDate Analyzed: 04/18/13 20:15 Lab File ID: 1CD18030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 17:33
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 17:33
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 17:34
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/19/13 17:34

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973 Analysis Batch Number: 136605Lab Sample ID: 680-89220-30 Client Sample ID: CV0675A-CS-SPDate Analyzed: 04/18/13 20:34 Lab File ID: 1CD18031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 17:35
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 17:35
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 17:37
Dibenz(a,h)anthracene	9.91	Baseline Event	cantins	04/19/13 17:35

Lab Sample ID: 680-89220-31 Client Sample ID: CV0675B-CS-SPDate Analyzed: 04/18/13 20:52 Lab File ID: 1CD18032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 17:38
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 17:38
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/19/13 17:39

Lab Sample ID: 680-89220-32 Client Sample ID: CV0928A-CS-SPDate Analyzed: 04/18/13 21:10 Lab File ID: 1CD18033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 17:40
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/19/13 17:41

Lab Sample ID: 680-89220-33 Client Sample ID: CV0928B-CS-SPDate Analyzed: 04/18/13 21:29 Lab File ID: 1CD18034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 17:43



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973 Analysis Batch Number: 136605Lab Sample ID: 680-89220-34 Client Sample ID: CV1337A-CS-SPDate Analyzed: 04/18/13 21:47 Lab File ID: 1CD18035.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 17:44
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/19/13 17:44
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 17:44

Lab Sample ID: 680-89220-35 Client Sample ID: CV1337B-CS-SPDate Analyzed: 04/18/13 22:05 Lab File ID: 1CD18036.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 17:45
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 17:45
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/19/13 17:46

Lab Sample ID: 680-89220-38 Client Sample ID: HP0140A-CS-SPDate Analyzed: 04/18/13 23:00 Lab File ID: 1CD18039.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Baseline Event	cantins	04/19/13 17:49

Lab Sample ID: 680-89220-39 Client Sample ID: HP0140B-CS-SPDate Analyzed: 04/18/13 23:19 Lab File ID: 1CD18040.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Baseline Event	cantins	04/19/13 17:51
Benzo[g,h,i]perylene	10.24	Baseline Event	cantins	04/19/13 17:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2

SDG No.: 68089220-2

Instrument ID: BSMC5973 Analysis Batch Number: 136605

Lab Sample ID: 680-89220-40 Client Sample ID: HP0142A-CS-SP

Date Analyzed: 04/18/13 23:37 Lab File ID: 1CD18041.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/19/13 17:52
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/19/13 17:52
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/19/13 17:53
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/19/13 17:52

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973 Analysis Batch Number: 136655Lab Sample ID: CCVIS 660-136655/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/19/13 11:24 Lab File ID: 1CD19003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/19/13 11:44

Lab Sample ID: 680-89220-28 DL Client Sample ID: FM0351B-CS DLDate Analyzed: 04/19/13 21:50 Lab File ID: 1CD19036.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/22/13 10:23
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/22/13 10:23
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/22/13 10:24

# 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.: 680-89220-2

SDG No.: 68089220-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0147A-CS	680-89220-21	80
FM0147B-CS	680-89220-22	76
FM0249A-CS	680-89220-23	74
FM0252A-CS	680-89220-24	48
FM0252B-CS	680-89220-25	84
FM0252B-CSD	680-89220-26	87
FM0351A-CS	680-89220-27	70
FM0351B-CS	680-89220-28	86
FM0351C-CS	680-89220-29	89
CV0675A-CS-SP	680-89220-30	81
CV0675B-CS-SP	680-89220-31	75
CV0928A-CS-SP	680-89220-32	82
CV0928B-CS-SP	680-89220-33	80
CV1337A-CS-SP	680-89220-34	75
CV1337B-CS-SP	680-89220-35	75
CV1338A-CS-SP	680-89220-36	71
CV1338B-CS-SP	680-89220-37	68
HP0140A-CS-SP	680-89220-38	75
HP0140B-CS-SP	680-89220-39	80
HP0142A-CS-SP	680-89220-40	79
	MB 660-136542/1-A	79
	LCS 660-136542/2-A	80
FM0147A-CS MS	680-89220-21 MS	73
FM0147A-CS MSD	680-89220-21 MSD	84

OTPH = o-Terphenyl

QC LIMITS  
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.: 680-89220-2  
 SDG No.: 68089220-2  
 Matrix: Solid Level: Low Lab File ID: 1CD18019.D  
 Lab ID: LCS 660-136542/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	663	495	75	39-130	
Acenaphthylene	663	505	76	38-130	
Anthracene	663	596	90	37-130	
Benzo[a]anthracene	663	560	84	40-130	
Benzo[a]pyrene	663	506	76	49-130	
Benzo[b]fluoranthene	663	617	93	37-130	
Benzo[g,h,i]perylene	663	530	80	32-130	
Benzo[k]fluoranthene	663	540	81	32-130	
Chrysene	663	588	89	41-130	
Dibenz(a,h)anthracene	663	548	83	27-130	
Fluoranthene	663	559	84	40-130	
Fluorene	663	598	90	40-130	
Indeno[1,2,3-cd]pyrene	663	541	82	30-130	
1-Methylnaphthalene	663	602	91	31-130	
2-Methylnaphthalene	663	588	89	33-130	
Naphthalene	663	565	85	36-130	
Phenanthrene	663	552	83	42-130	
Pyrene	663	536	81	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Matrix: Solid Level: Low Lab File ID: 1CD18021.D  
 Lab ID: 680-89220-21 MS Client ID: FM0147A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	967	150 U	732	76	39-130	
Acenaphthylene	967	67	859	82	38-130	
Anthracene	967	50	850	83	37-130	
Benzo[a]anthracene	967	260	944	71	40-130	
Benzo[a]pyrene	967	250	843	61	49-130	
Benzo[b]fluoranthene	967	420	1050	65	37-130	
Benzo[g,h,i]perylene	967	190	863	70	32-130	
Benzo[k]fluoranthene	967	150	795	67	32-130	
Chrysene	967	260	859	62	41-130	
Dibenz(a,h)anthracene	967	98	802	73	27-130	
Fluoranthene	967	330	1000	70	40-130	
Fluorene	967	8.5 J	742	76	40-130	
Indeno[1,2,3-cd]pyrene	967	210	829	64	30-130	
1-Methylnaphthalene	967	51 J	752	73	31-130	
2-Methylnaphthalene	967	72	848	80	33-130	
Naphthalene	967	110	825	74	36-130	
Phenanthrene	967	110	878	80	42-130	
Pyrene	967	320	944	65	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Matrix: Solid Level: Low Lab File ID: 1CD18022.D  
 Lab ID: 680-89220-21 MSD Client ID: FM0147A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	986	912	93	22	40	39-130	
Acenaphthylene	986	893	84	4	40	38-130	
Anthracene	986	961	92	12	40	37-130	
Benzo[a]anthracene	986	1100	85	15	40	40-130	
Benzo[a]pyrene	986	936	70	10	40	49-130	
Benzo[b]fluoranthene	986	1210	79	13	40	37-130	
Benzo[g,h,i]perylene	986	982	80	13	40	32-130	
Benzo[k]fluoranthene	986	984	85	21	40	32-130	
Chrysene	986	1000	75	15	40	41-130	
Dibenz(a,h)anthracene	986	947	86	17	40	27-130	
Fluoranthene	986	1120	80	11	40	40-130	
Fluorene	986	992	100	29	40	40-130	
Indeno[1,2,3-cd]pyrene	986	866	67	4	40	30-130	
1-Methylnaphthalene	986	893	85	17	40	31-130	
2-Methylnaphthalene	986	934	87	10	40	33-130	
Naphthalene	986	879	78	6	40	36-130	
Phenanthrene	986	901	81	2	40	42-130	
Pyrene	986	1060	76	12	40	44-130	

# Column to be used to flag recovery and RPD values



FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab File ID: 1CD18018.D Lab Sample ID: MB 660-136542/1-A  
 Matrix: Solid Date Extracted: 04/17/2013 13:21  
 Instrument ID: BSMC5973 Date Analyzed: 04/18/2013 16:36  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136542/2-A	1CD18019.D	04/18/2013 16:54
FM0147A-CS	680-89220-21	1CD18020.D	04/18/2013 17:12
FM0147A-CS MS	680-89220-21 MS	1CD18021.D	04/18/2013 17:30
FM0147A-CS MSD	680-89220-21 MSD	1CD18022.D	04/18/2013 17:49
FM0147B-CS	680-89220-22	1CD18023.D	04/18/2013 18:07
FM0249A-CS	680-89220-23	1CD18024.D	04/18/2013 18:25
FM0252A-CS	680-89220-24	1CD18025.D	04/18/2013 18:44
FM0252B-CS	680-89220-25	1CD18026.D	04/18/2013 19:02
FM0252B-CSD	680-89220-26	1CD18027.D	04/18/2013 19:20
FM0351A-CS	680-89220-27	1CD18028.D	04/18/2013 19:39
FM0351B-CS	680-89220-28	1CD18029.D	04/18/2013 19:57
FM0351C-CS	680-89220-29	1CD18030.D	04/18/2013 20:15
CV0675A-CS-SP	680-89220-30	1CD18031.D	04/18/2013 20:34
CV0675B-CS-SP	680-89220-31	1CD18032.D	04/18/2013 20:52
CV0928A-CS-SP	680-89220-32	1CD18033.D	04/18/2013 21:10
CV0928B-CS-SP	680-89220-33	1CD18034.D	04/18/2013 21:29
CV1337A-CS-SP	680-89220-34	1CD18035.D	04/18/2013 21:47
CV1337B-CS-SP	680-89220-35	1CD18036.D	04/18/2013 22:05
CV1338A-CS-SP	680-89220-36	1CD18037.D	04/18/2013 22:24
CV1338B-CS-SP	680-89220-37	1CD18038.D	04/18/2013 22:42
HP0140A-CS-SP	680-89220-38	1CD18039.D	04/18/2013 23:00
HP0140B-CS-SP	680-89220-39	1CD18040.D	04/18/2013 23:19
HP0142A-CS-SP	680-89220-40	1CD18041.D	04/18/2013 23:37
FM0351B-CS DL	680-89220-28 DL	1CD19036.D	04/19/2013 21:50

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab File ID: 1CD11002.D DFTPP Injection Date: 04/11/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:38  
 Analysis Batch No.: 136370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	48.8
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	45.9
197	Less than 2.0 % of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.8
275	10.0 - 60.0 % of mass 198	20.8
365	Greater than 1.0 % of mass 198	5.1
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	76.7
443	15.0 - 24.0 % of mass 442	16.1 (20.9)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
	ICIS 660-136370/3	1CD11003.D	04/11/2013	11:56
	IC 660-136370/4	1CD11004.D	04/11/2013	12:35
	IC 660-136370/5	1CD11005.D	04/11/2013	12:53
	IC 660-136370/6	1CD11006.D	04/11/2013	13:11
	IC 660-136370/7	1CD11007.D	04/11/2013	13:30
	IC 660-136370/8	1CD11008.D	04/11/2013	13:48
	IC 660-136370/9	1CD11009.D	04/11/2013	14:06
	ICV 660-136370/10	1CD11010.D	04/11/2013	14:25

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab File ID: 1CD18002.D DFTPP Injection Date: 04/18/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:44  
 Analysis Batch No.: 136605

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	46.3
68	Less than 2.0 % of mass 69	0.9 (1.6)1
69	Mass 69 relative abundance	55.9
70	Less than 2.0 % of mass 69	0.5 (0.9)1
127	10.0 - 80.0 % of mass 198	53.2
197	Less than 2.0 % of mass 198	1.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	23.0
365	Greater than 1.0 % of mass 198	5.4
441	Present but less than mass 443	10.7
442	Greater than 50.0 % of mass 198	79.1
443	15.0 - 24.0 % of mass 442	13.8 (17.4)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 660-136605/3	1CD18003.D	04/18/2013	12:01
	MB 660-136542/1-A	1CD18018.D	04/18/2013	16:36
	LCS 660-136542/2-A	1CD18019.D	04/18/2013	16:54
FM0147A-CS	680-89220-21	1CD18020.D	04/18/2013	17:12
FM0147A-CS MS	680-89220-21 MS	1CD18021.D	04/18/2013	17:30
FM0147A-CS MSD	680-89220-21 MSD	1CD18022.D	04/18/2013	17:49
FM0147B-CS	680-89220-22	1CD18023.D	04/18/2013	18:07
FM0249A-CS	680-89220-23	1CD18024.D	04/18/2013	18:25
FM0252A-CS	680-89220-24	1CD18025.D	04/18/2013	18:44
FM0252B-CS	680-89220-25	1CD18026.D	04/18/2013	19:02
FM0252B-CSD	680-89220-26	1CD18027.D	04/18/2013	19:20
FM0351A-CS	680-89220-27	1CD18028.D	04/18/2013	19:39
FM0351B-CS	680-89220-28	1CD18029.D	04/18/2013	19:57
FM0351C-CS	680-89220-29	1CD18030.D	04/18/2013	20:15
CV0675A-CS-SP	680-89220-30	1CD18031.D	04/18/2013	20:34
CV0675B-CS-SP	680-89220-31	1CD18032.D	04/18/2013	20:52
CV0928A-CS-SP	680-89220-32	1CD18033.D	04/18/2013	21:10
CV0928B-CS-SP	680-89220-33	1CD18034.D	04/18/2013	21:29
CV1337A-CS-SP	680-89220-34	1CD18035.D	04/18/2013	21:47
CV1337B-CS-SP	680-89220-35	1CD18036.D	04/18/2013	22:05
CV1338A-CS-SP	680-89220-36	1CD18037.D	04/18/2013	22:24
CV1338B-CS-SP	680-89220-37	1CD18038.D	04/18/2013	22:42
HP0140A-CS-SP	680-89220-38	1CD18039.D	04/18/2013	23:00

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab File ID: 1CD18002.D DFTPP Injection Date: 04/18/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:44  
 Analysis Batch No.: 136605

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	46.3
68	Less than 2.0 % of mass 69	0.9 (1.6)1
69	Mass 69 relative abundance	55.9
70	Less than 2.0 % of mass 69	0.5 (0.9)1
127	10.0 - 80.0 % of mass 198	53.2
197	Less than 2.0 % of mass 198	1.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	23.0
365	Greater than 1.0 % of mass 198	5.4
441	Present but less than mass 443	10.7
442	Greater than 50.0 % of mass 198	79.1
443	15.0 - 24.0 % of mass 442	13.8 (17.4)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
HP0140B-CS-SP	680-89220-39	1CD18040.D	04/18/2013	23:19
HP0142A-CS-SP	680-89220-40	1CD18041.D	04/18/2013	23:37

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab File ID: 1CD19002.D DFTPP Injection Date: 04/19/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:08  
 Analysis Batch No.: 136655

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	44.8
68	Less than 2.0 % of mass 69	0.9 (1.9)1
69	Mass 69 relative abundance	46.0
70	Less than 2.0 % of mass 69	0.5 (1.0)1
127	10.0 - 80.0 % of mass 198	47.6
197	Less than 2.0 % of mass 198	1.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.5
275	10.0 - 60.0 % of mass 198	22.6
365	Greater than 1.0 % of mass 198	6.6
441	Present but less than mass 443	12.1
442	Greater than 50.0 % of mass 198	73.9
443	15.0 - 24.0 % of mass 442	13.9 (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 660-136655/3	1CD19003.D	04/19/2013	11:24
FM0351B-CS DL	680-89220-28 DL	1CD19036.D	04/19/2013	21:50

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	245713	3.68	179699	4.76	320372	5.70
UPPER LIMIT	491426	4.18	359398	5.26	640744	6.20
LOWER LIMIT	122857	3.18	89850	4.26	160186	5.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136370/10	273342	3.67	204687	4.76	380421	5.70

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	410945	7.65	438804	8.80		
UPPER LIMIT	821890	8.15	877608	9.30		
LOWER LIMIT	205473	7.15	219402	8.30		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136370/10	501991	7.64	491170	8.80		

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Sample No.: CCVIS 660-136605/3 Date Analyzed: 04/18/2013 12:01  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD18003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	223132	3.66	151077	4.75	296248	5.69	
UPPER LIMIT	446264	4.16	302154	5.25	592496	6.19	
LOWER LIMIT	111566	3.16	75539	4.25	148124	5.19	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136542/1-A		234683	3.66	159396	4.75	306226	5.69
LCS 660-136542/2-A		208471	3.66	164077	4.75	297835	5.69
680-89220-21	FM0147A-CS	225481	3.66	152930	4.75	290511	5.69
680-89220-21 MS	FM0147A-CS MS	247750	3.66	166232	4.75	305144	5.69
680-89220-21 MSD	FM0147A-CS MSD	230007	3.66	161573	4.75	304349	5.69
680-89220-22	FM0147B-CS	259484	3.66	171512	4.75	332618	5.69
680-89220-23	FM0249A-CS	275655	3.66	185646	4.75	337845	5.69
680-89220-24	FM0252A-CS	267982	3.66	187524	4.75	340840	5.69
680-89220-25	FM0252B-CS	276254	3.66	187793	4.75	321103	5.69
680-89220-26	FM0252B-CSD	262799	3.66	174373	4.75	324257	5.69
680-89220-27	FM0351A-CS	263442	3.66	178455	4.75	331155	5.69
680-89220-28	FM0351B-CS	261973	3.66	195546	4.75	320259	5.69
680-89220-29	FM0351C-CS	290944	3.66	198134	4.75	363958	5.69
680-89220-30	CV0675A-CS-SP	268368	3.66	190443	4.75	326309	5.69
680-89220-31	CV0675B-CS-SP	229571	3.66	169206	4.75	306584	5.69
680-89220-32	CV0928A-CS-SP	260817	3.66	182219	4.75	323787	5.69
680-89220-33	CV0928B-CS-SP	263899	3.66	184303	4.75	342878	5.69
680-89220-34	CV1337A-CS-SP	254246	3.66	176320	4.75	316675	5.69
680-89220-35	CV1337B-CS-SP	248130	3.66	173824	4.75	317127	5.69
680-89220-36	CV1338A-CS-SP	250540	3.66	169930	4.75	315338	5.69
680-89220-37	CV1338B-CS-SP	257082	3.66	179923	4.75	313040	5.69
680-89220-38	HP0140A-CS-SP	246551	3.66	186467	4.75	318905	5.69
680-89220-39	HP0140B-CS-SP	263110	3.66	186358	4.75	320320	5.69
680-89220-40	HP0142A-CS-SP	258498	3.66	173637	4.75	317057	5.69

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Sample No.: CCVIS 660-136605/3 Date Analyzed: 04/18/2013 12:01  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD18003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	379503	7.63	385868	8.78		
UPPER LIMIT	759006	8.13	771736	9.28		
LOWER LIMIT	189752	7.13	192934	8.28		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136542/1-A		379839	7.62	399862	8.78	
LCS 660-136542/2-A		361054	7.62	351740	8.78	
680-89220-21	FM0147A-CS	334963	7.63	332183	8.78	
680-89220-21 MS	FM0147A-CS MS	358753	7.62	346193	8.78	
680-89220-21 MSD	FM0147A-CS MSD	357523	7.63	334365	8.78	
680-89220-22	FM0147B-CS	364227	7.63	349934	8.78	
680-89220-23	FM0249A-CS	382990	7.63	357414	8.79	
680-89220-24	FM0252A-CS	357842	7.63	319041	8.78	
680-89220-25	FM0252B-CS	354315	7.63	323913	8.79	
680-89220-26	FM0252B-CSD	361134	7.63	342206	8.78	
680-89220-27	FM0351A-CS	349461	7.63	341369	8.78	
680-89220-28	FM0351B-CS	576871	7.64	357884	8.80	
680-89220-29	FM0351C-CS	401490	7.63	364399	8.78	
680-89220-30	CV0675A-CS-SP	348142	7.63	336602	8.79	
680-89220-31	CV0675B-CS-SP	348480	7.63	327184	8.78	
680-89220-32	CV0928A-CS-SP	342503	7.63	323335	8.79	
680-89220-33	CV0928B-CS-SP	348268	7.63	336321	8.79	
680-89220-34	CV1337A-CS-SP	331631	7.63	315173	8.79	
680-89220-35	CV1337B-CS-SP	343703	7.63	314791	8.79	
680-89220-36	CV1338A-CS-SP	341495	7.63	327428	8.78	
680-89220-37	CV1338B-CS-SP	323638	7.63	321518	8.78	
680-89220-38	HP0140A-CS-SP	328764	7.63	329414	8.79	
680-89220-39	HP0140B-CS-SP	323436	7.63	317205	8.79	
680-89220-40	HP0142A-CS-SP	321026	7.63	309956	8.79	

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Sample No.: CCVIS 660-136655/3 Date Analyzed: 04/19/2013 11:24  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD19003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	187771	3.66	127904	4.74	242114	5.69		
UPPER LIMIT	375542	4.16	255808	5.24	484228	6.19		
LOWER LIMIT	93886	3.16	63952	4.24	121057	5.19		
LAB SAMPLE ID	CLIENT SAMPLE ID							
680-89220-28 DL	FM0351B-CS DL		242665	3.66	164805	4.75	271091	5.69

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

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Sample No.: CCVIS 660-136655/3 Date Analyzed: 04/19/2013 11:24  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD19003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	311596	7.62	321703	8.77		
UPPER LIMIT	623192	8.12	643406	9.27		
LOWER LIMIT	155798	7.12	160852	8.27		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-89220-28 DL	FM0351B-CS DL		310398	7.62	289393	8.78

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.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0147A-CS Lab Sample ID: 680-89220-21  
 Matrix: Solid Lab File ID: 1CD18020.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 09:30  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.23(g) Date Analyzed: 04/18/2013 17:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 32.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	67		59	7.3
120-12-7	Anthracene	50		12	6.1
56-55-3	Benzo[a]anthracene	260		12	5.7
50-32-8	Benzo[a]pyrene	250		15	7.6
205-99-2	Benzo[b]fluoranthene	420		18	8.9
191-24-2	Benzo[g,h,i]perylene	190		29	6.4
207-08-9	Benzo[k]fluoranthene	150		12	5.3
218-01-9	Chrysene	260		13	6.6
53-70-3	Dibenz(a,h)anthracene	98		29	6.0
206-44-0	Fluoranthene	330		29	5.9
86-73-7	Fluorene	8.5	J	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	210		29	10
90-12-0	1-Methylnaphthalene	51	J	59	6.4
91-57-6	2-Methylnaphthalene	72		59	10
91-20-3	Naphthalene	110		59	6.4
85-01-8	Phenanthrene	110		12	5.7
129-00-0	Pyrene	320		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18020.D  
 Lab Smp Id: 680-89220-A-21-A Client Smp ID: FM0147A-CS  
 Inj Date : 18-APR-2013 17:12  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-21-a  
 Misc Info : 680-89220-A-21-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 20  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	32.700	% 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		3.657	3.663	(1.000)	225481	40.0000		
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	152930	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	290511	40.0000		
\$ 14 o-Terphenyl	230		5.939	5.945	(1.043)	35368	8.04154	784.5613	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	334963	40.0000		
* 23 Perylene-d12	264		8.780	8.780	(1.000)	332183	40.0000		
2 Naphthalene	128		3.674	3.674	(1.005)	6604	1.08349	105.7094(Q)	
3 2-Methylnaphthalene	142		4.098	4.098	(1.121)	1905	0.74004	72.2012(Q)	
4 1-Methylnaphthalene	142		4.163	4.163	(1.138)	2036	0.52295	51.0205	
5 Acenaphthylene	152		4.657	4.663	(0.981)	4461	0.68840	67.1630	
9 Fluorene	166		5.092	5.086	(1.073)	431	0.08673	8.4612(Q)	
11 Phenanthrene	178		5.704	5.704	(1.002)	9245	1.09054	106.3968	
12 Anthracene	178		5.739	5.739	(1.008)	4363	0.51732	50.4716	
13 Carbazole	167		5.845	5.851	(1.027)	2476	0.31522	30.7538(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.539	6.539	(1.149)	31533	3.34595	326.4425
16 Pyrene	202	6.704	6.704	(0.879)	30802	3.23233	315.3577
17 Benzo(a)anthracene	228	7.615	7.615	(0.998)	25315	2.67259	260.7471
19 Chrysene	228	7.645	7.645	(1.002)	24844	2.65137	258.6766
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	36382	4.33630	423.0653(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.964)	14118	1.48707	145.0837(QM)
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	22158	2.55491	249.2661
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.898	(1.126)	12955	2.14297	209.0760(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.909	(1.128)	4704	1.00003	97.5666
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.165)	15752	1.93776	189.0548

QC Flag Legend

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

Data File: 1CD18020.D

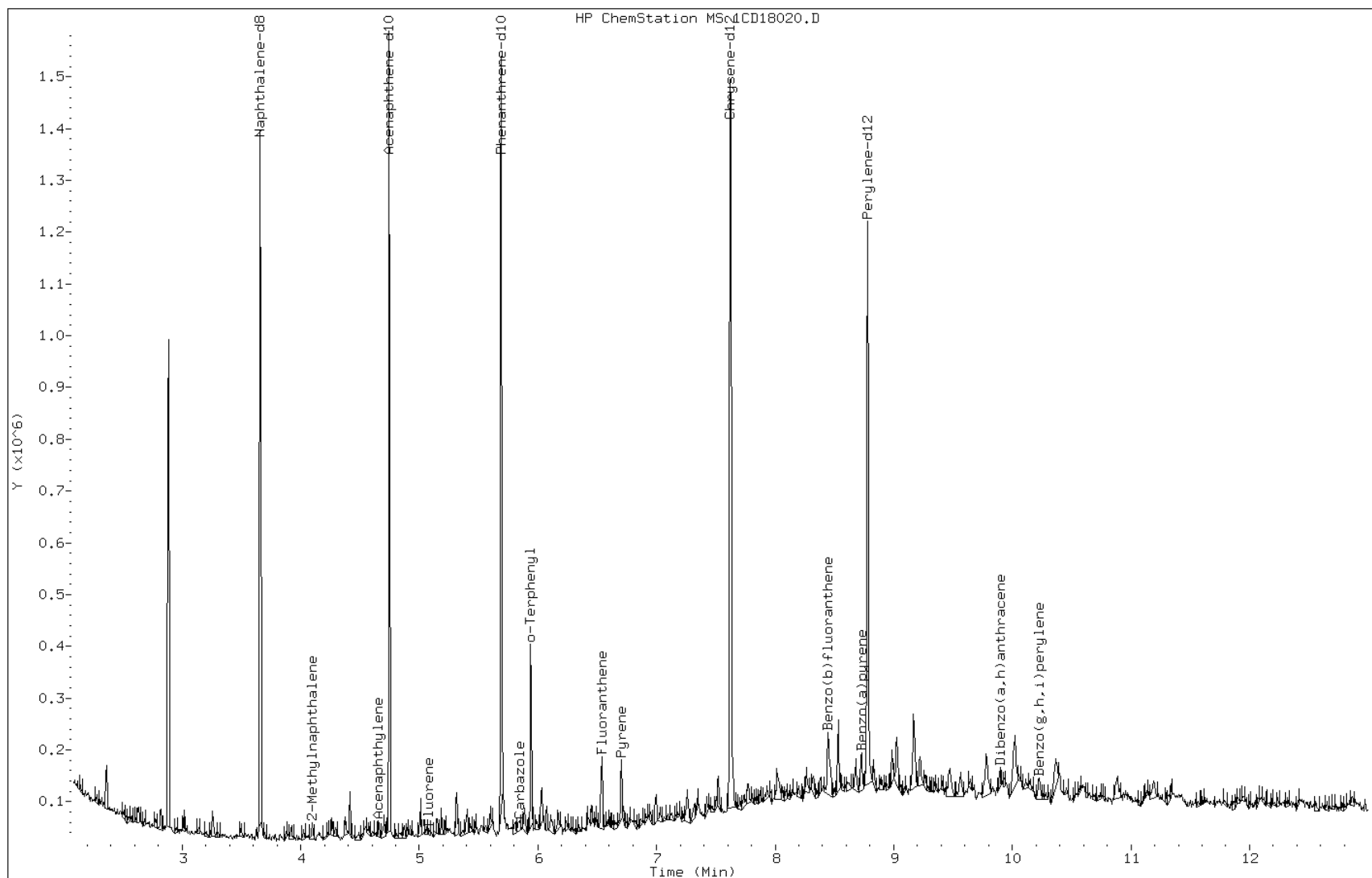
Date: 18-APR-2013 17:12

Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

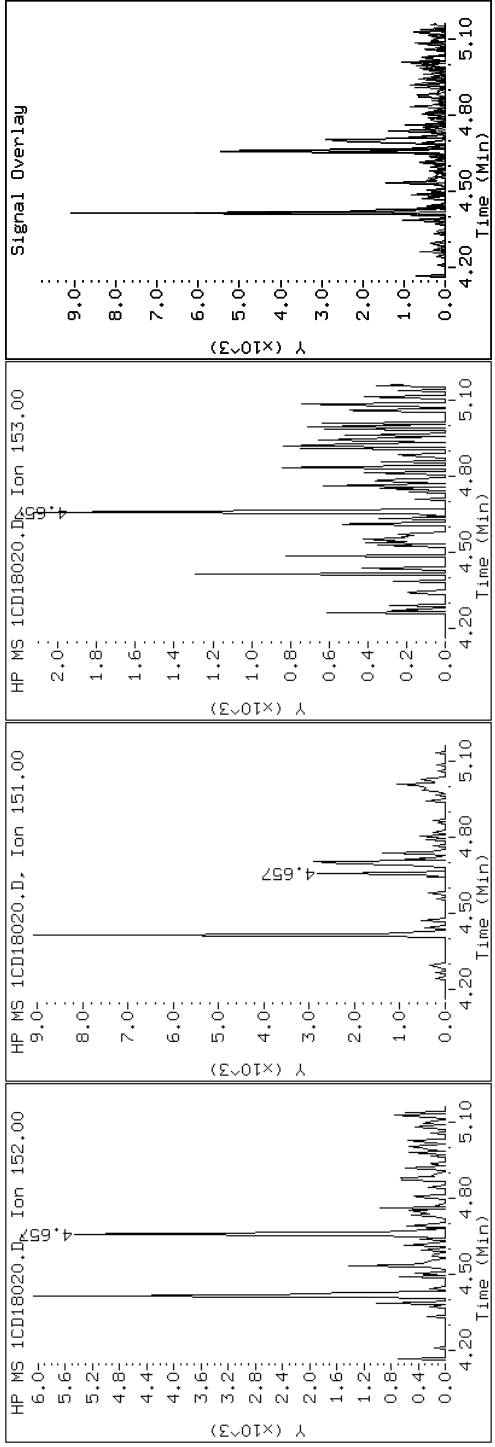
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

5 Acenaphthylene





Data File: 1CD18020.D

Date: 18-APR-2013 17:12

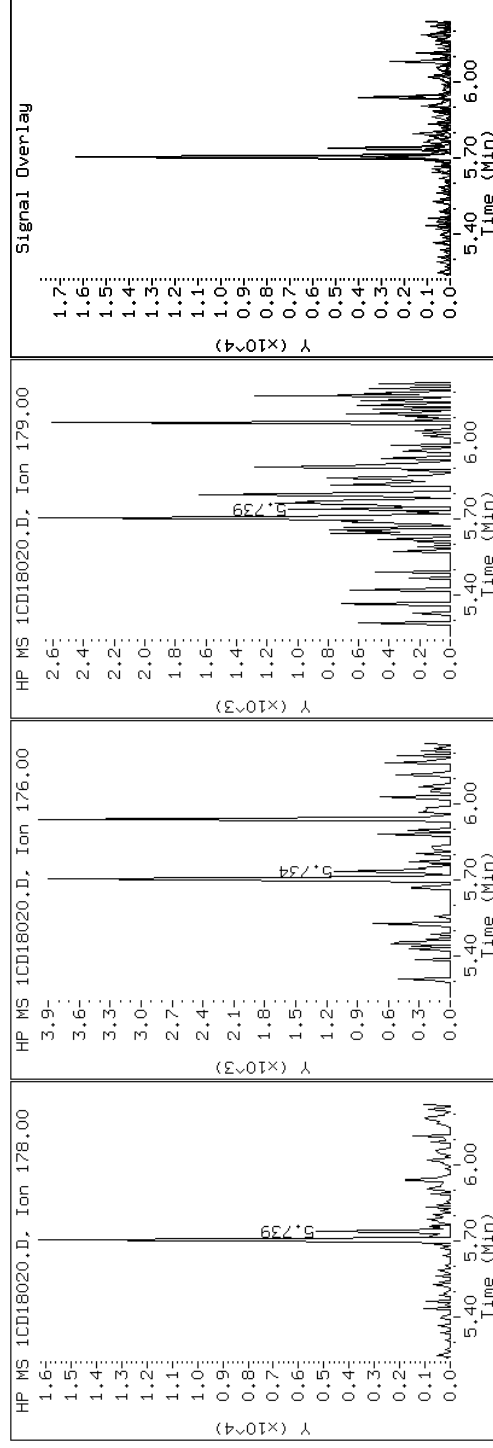
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

12 Anthracene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

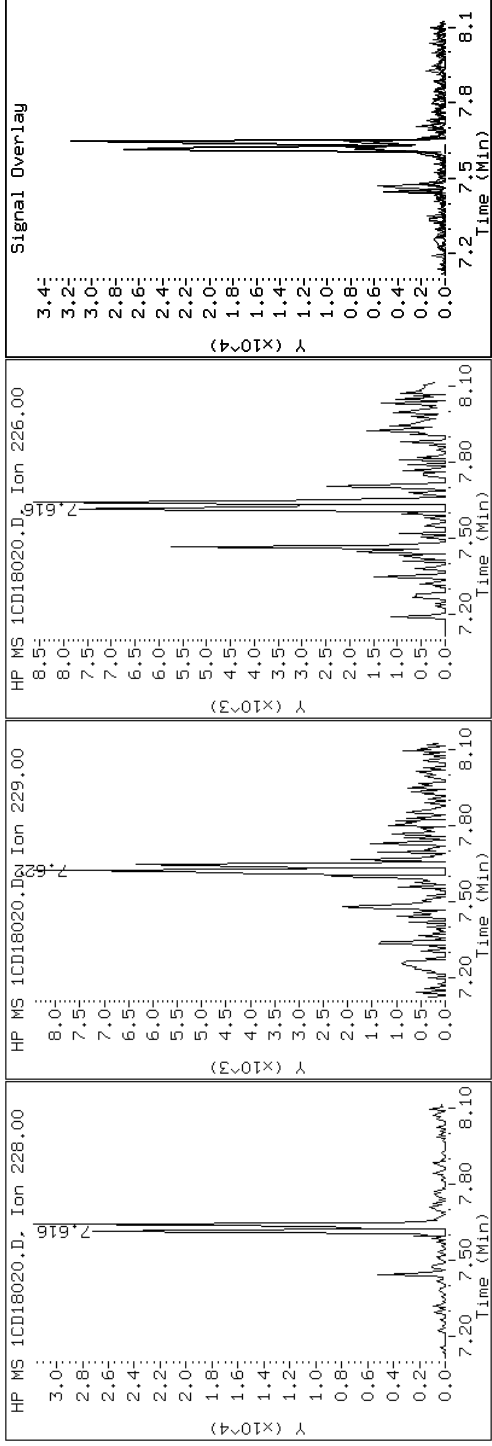
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

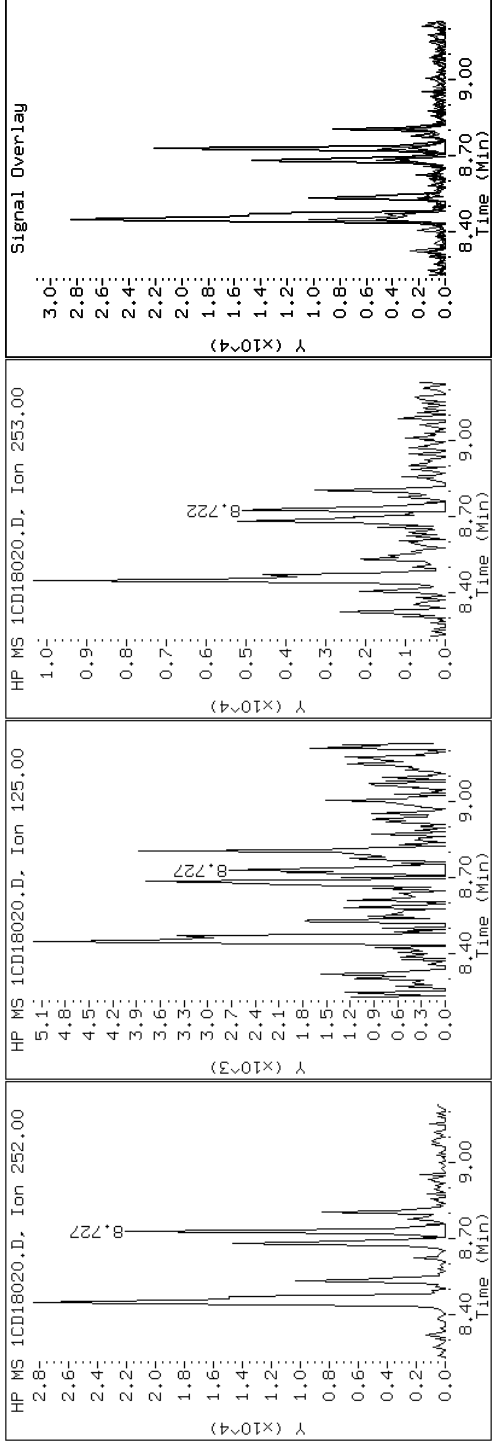
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

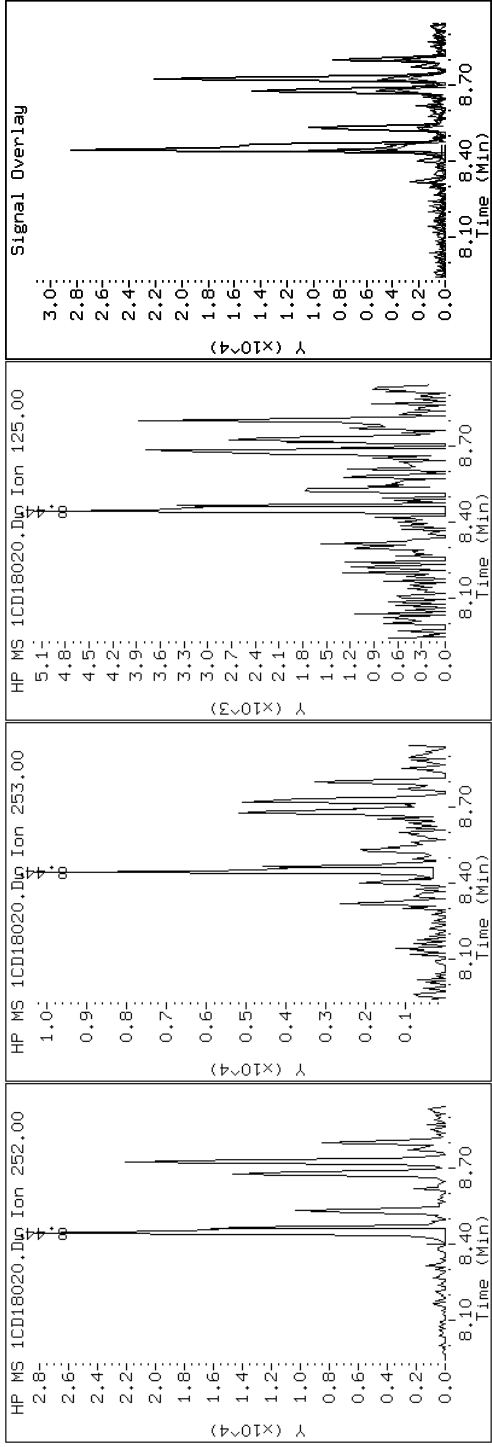
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

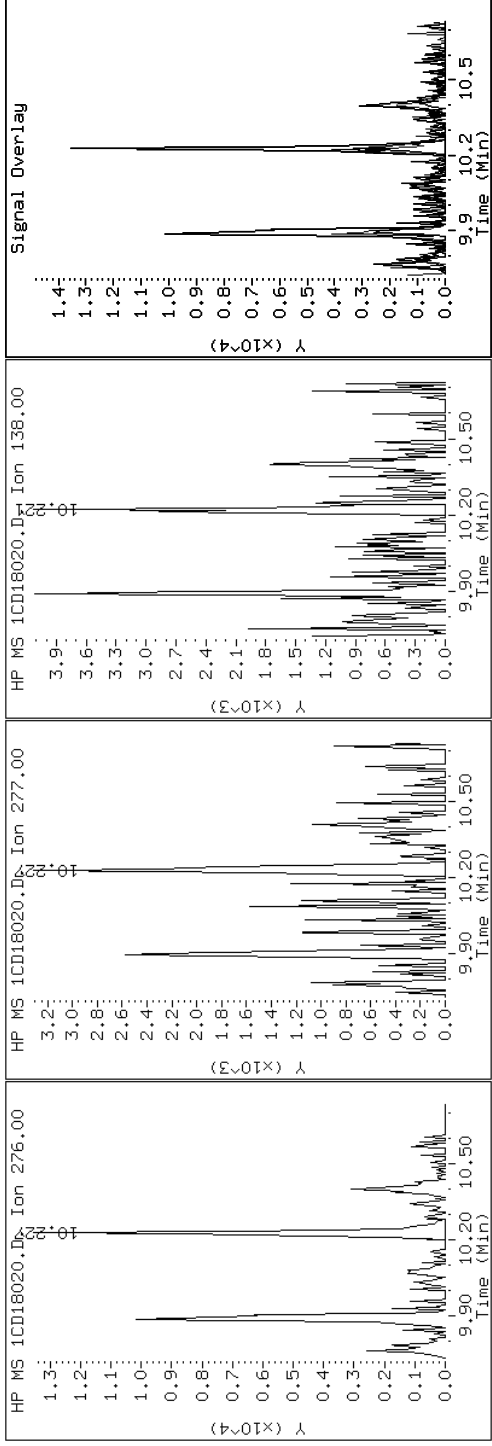
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

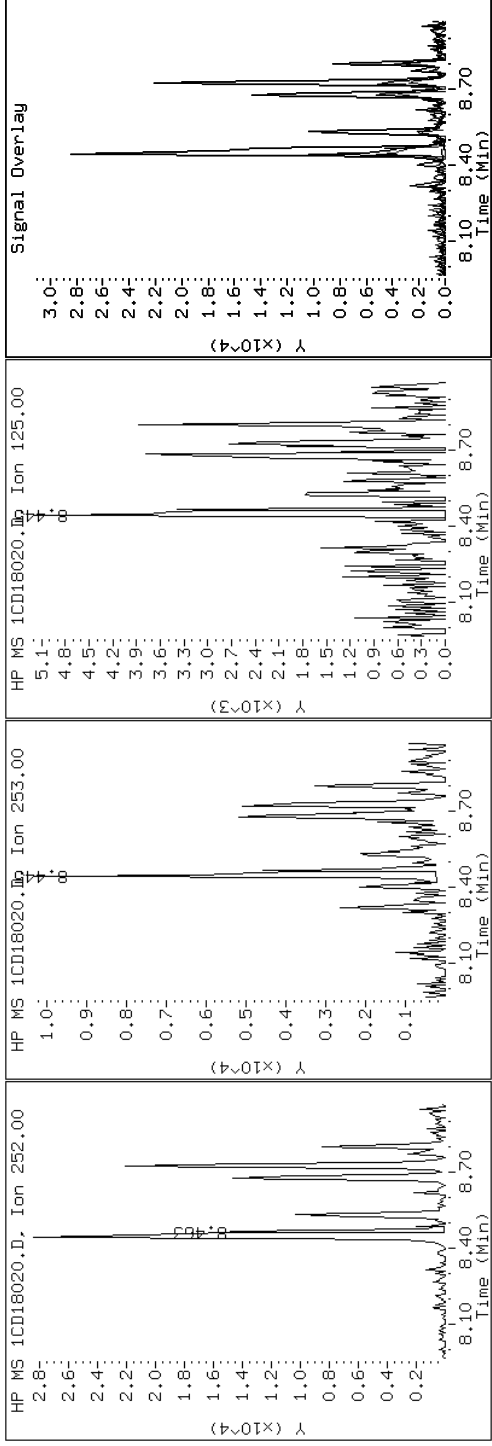
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

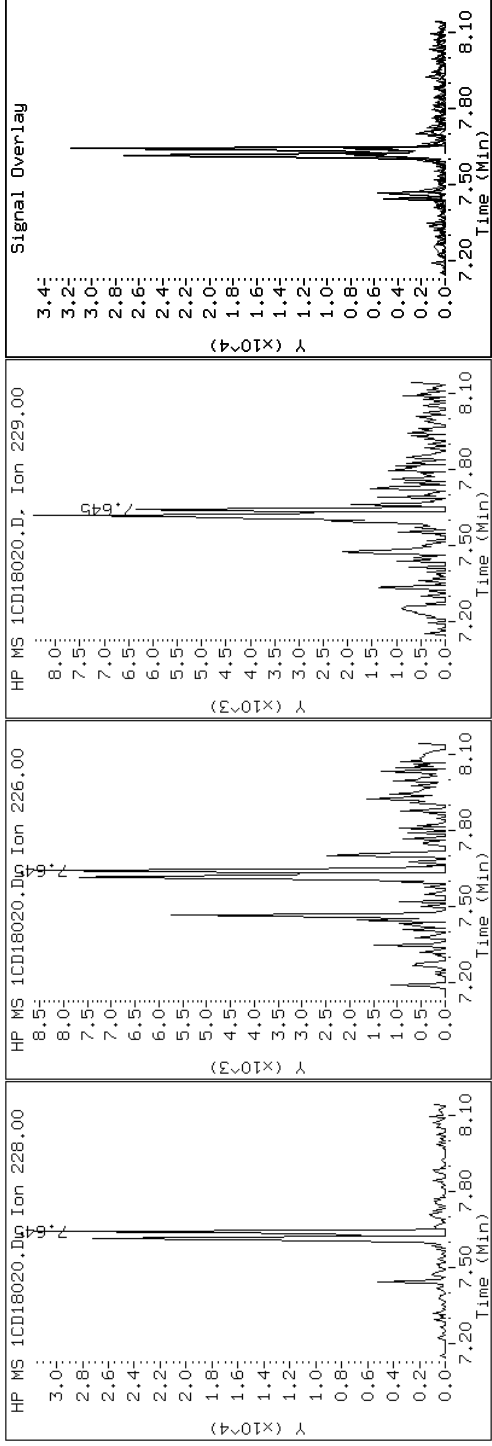
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

19 Chrysene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

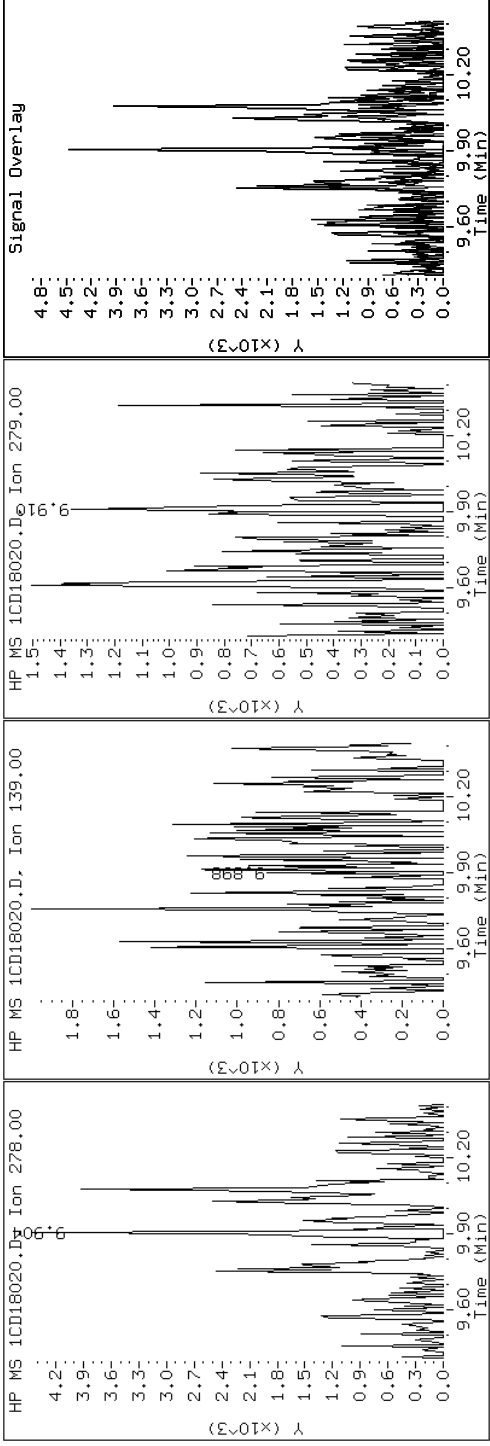
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

25 Dibenzo(a,h)anthracene





Data File: 1CD18020.D

Date: 18-APR-2013 17:12

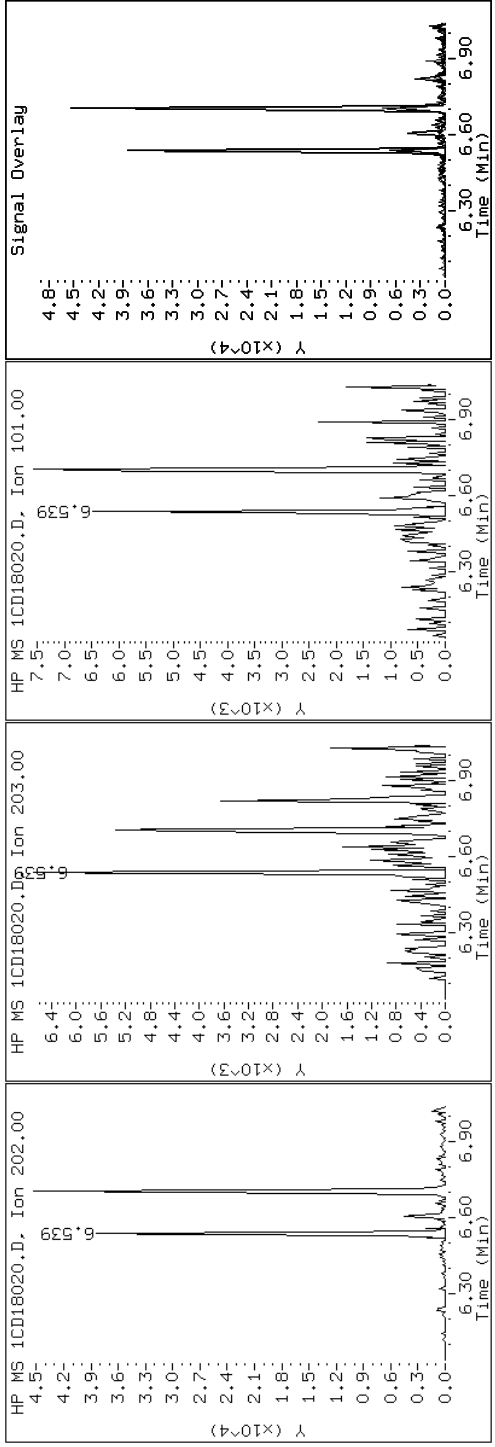
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

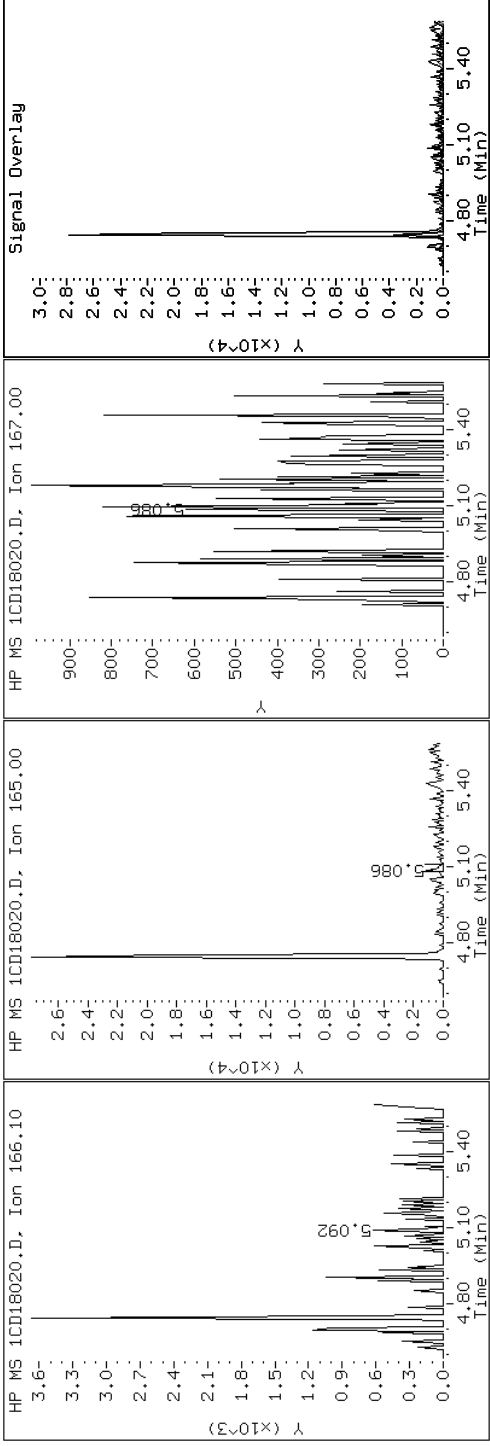
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

9 Fluorene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

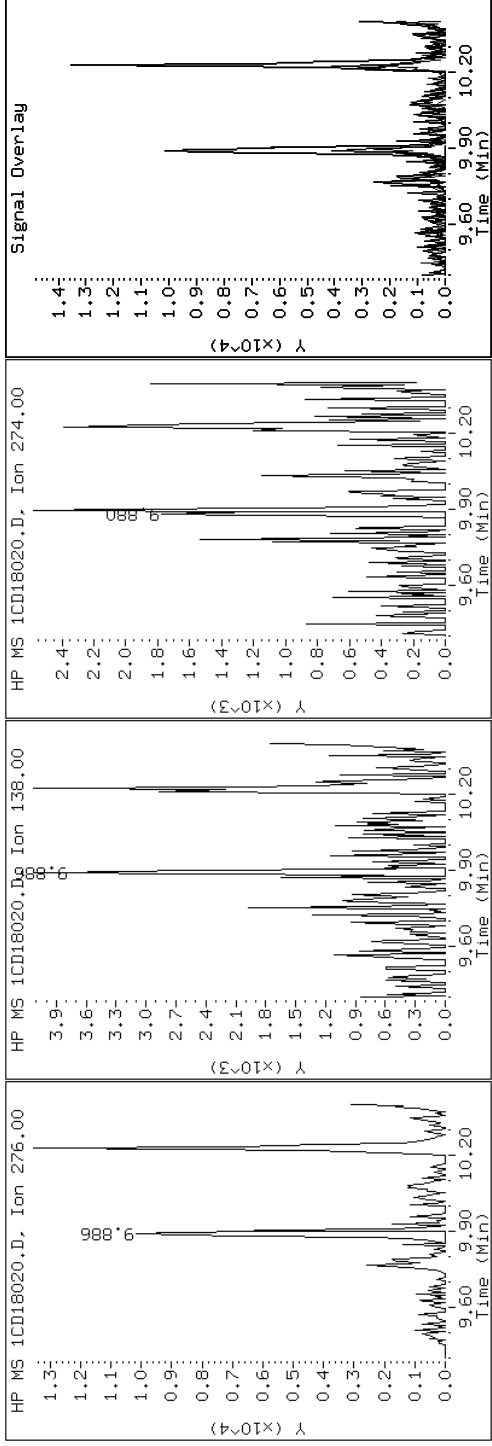
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

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



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

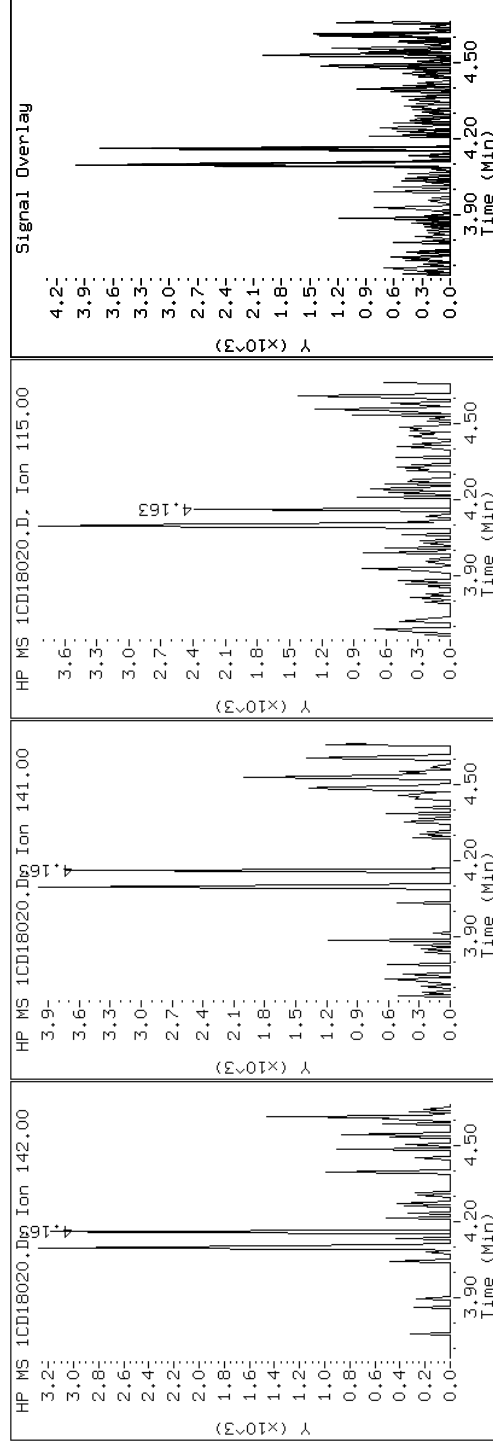
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

### 4 1-Methylnaphthalene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

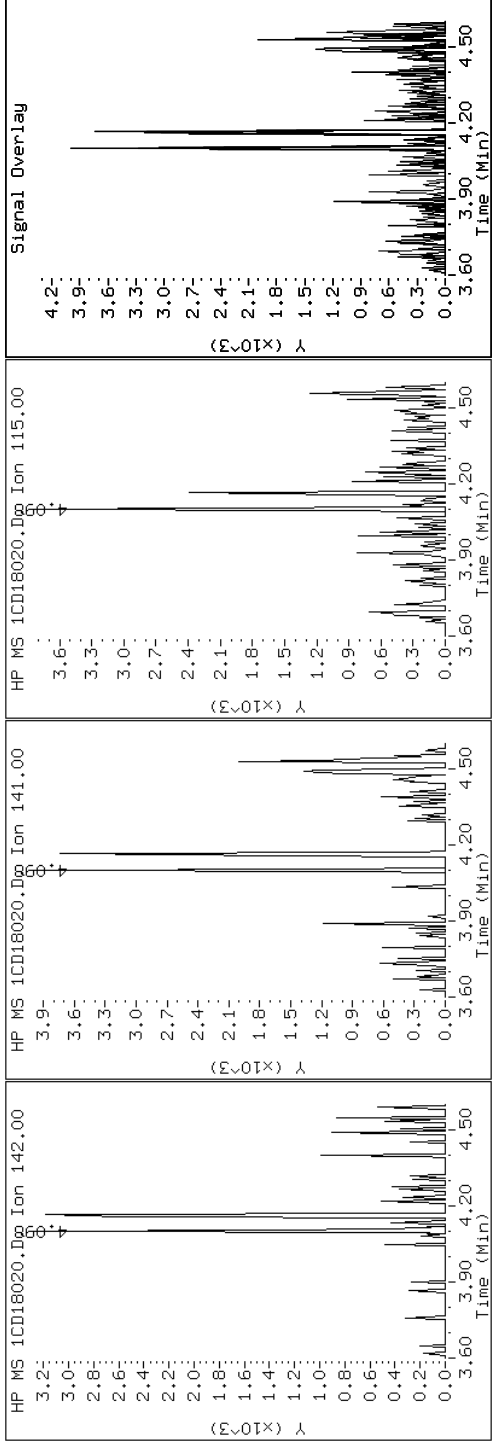
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

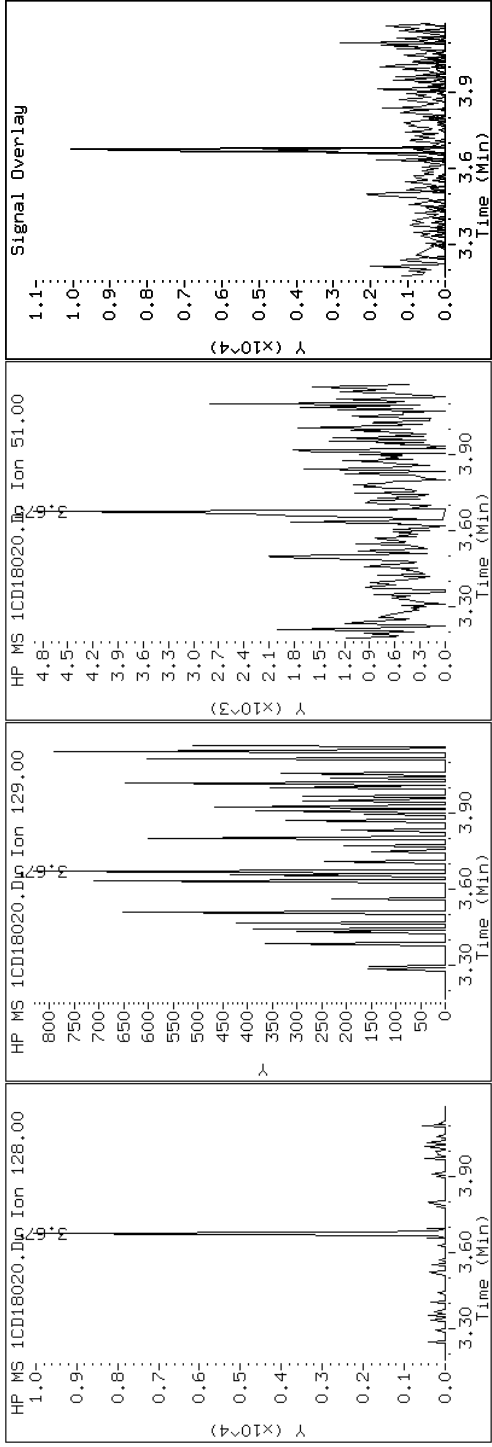
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

### 2 Naphthalene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

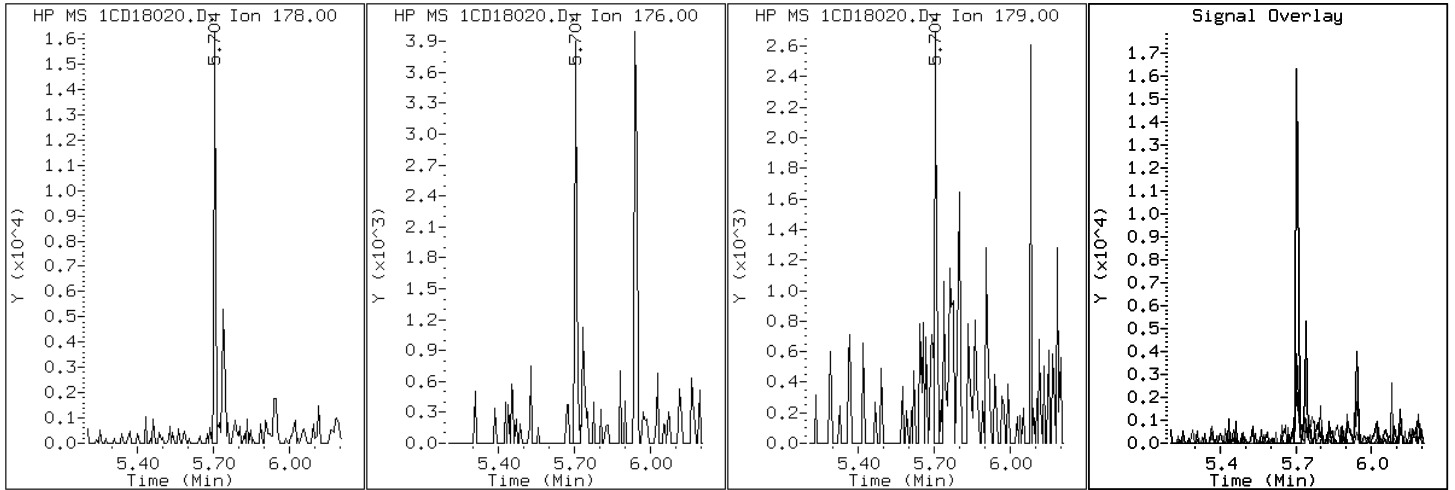
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18020.D

Date: 18-APR-2013 17:12

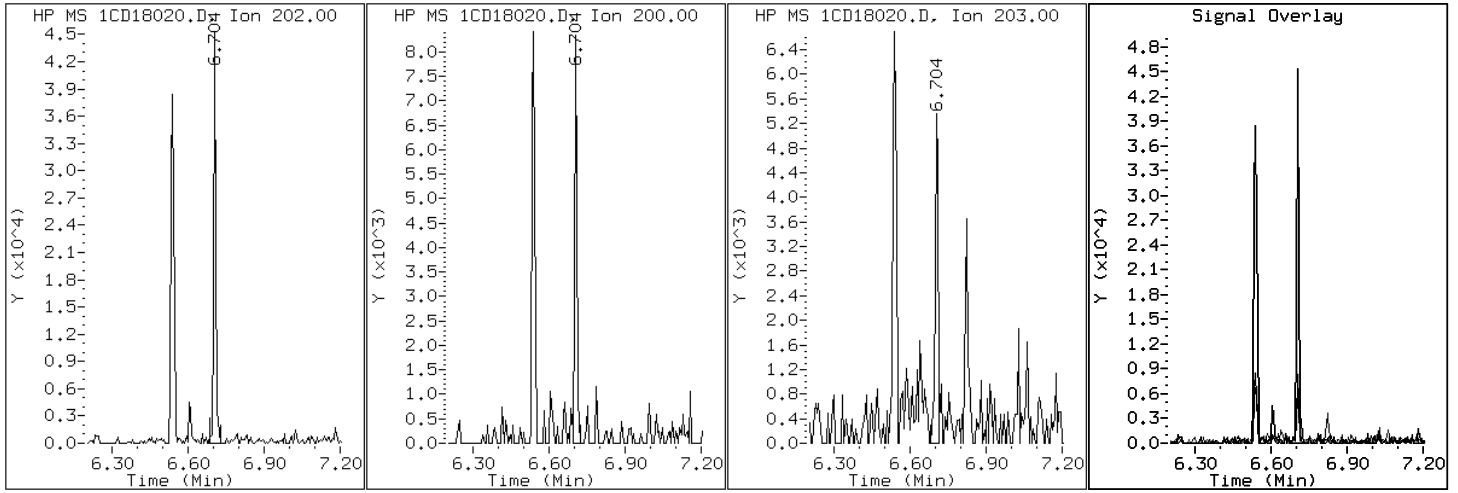
Client ID: FM0147A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-a

Operator: SCC

16 Pyrene



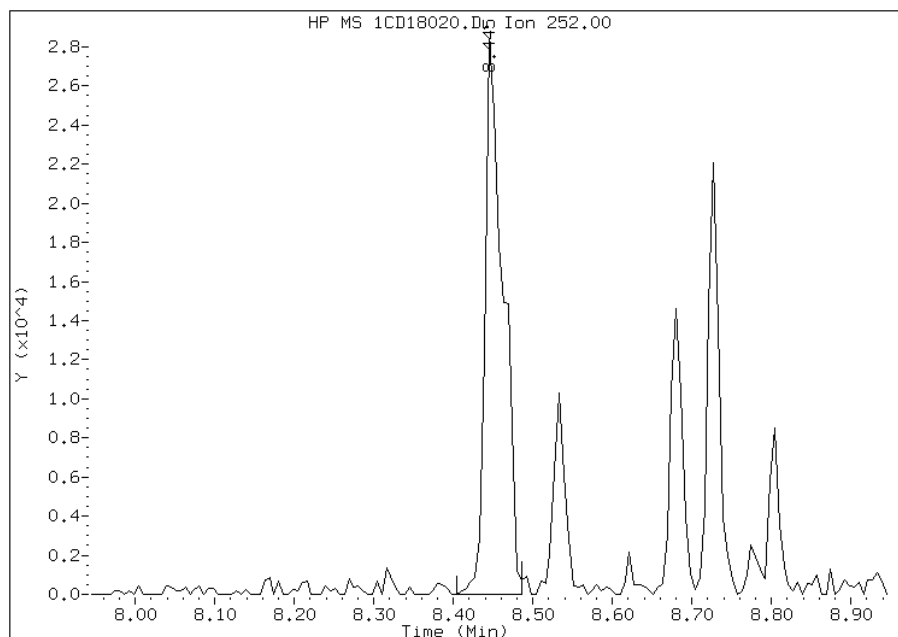


# Manual Integration Report

Data File: 1CD18020.D  
Inj. Date and Time: 18-APR-2013 17:12  
Instrument ID: BSMC5973.i  
Client ID: FM0147A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

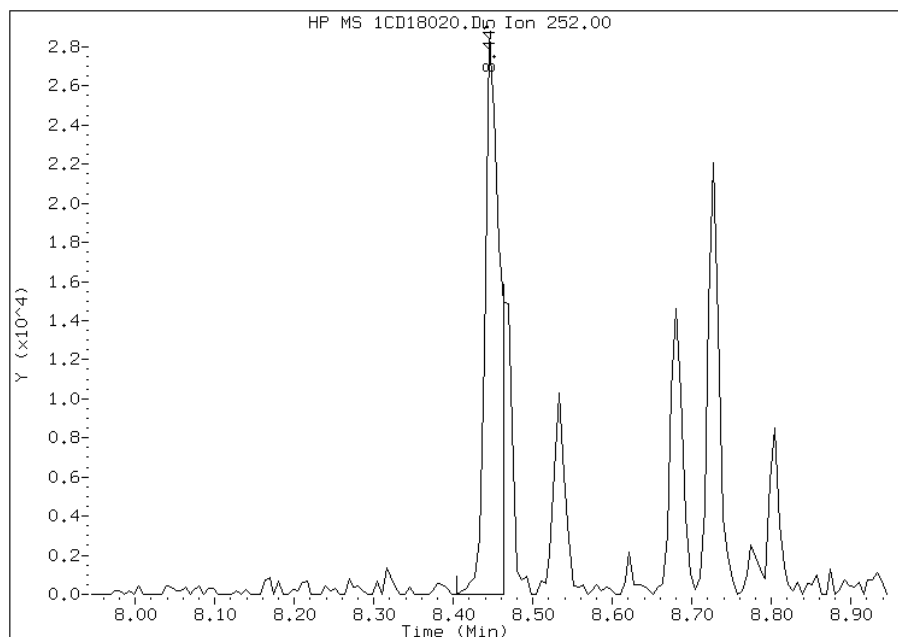
## Processing Integration Results

RT: 8.45  
Response: 45332  
Amount: 5  
Conc: 527



## Manual Integration Results

RT: 8.45  
Response: 36382  
Amount: 4  
Conc: 423



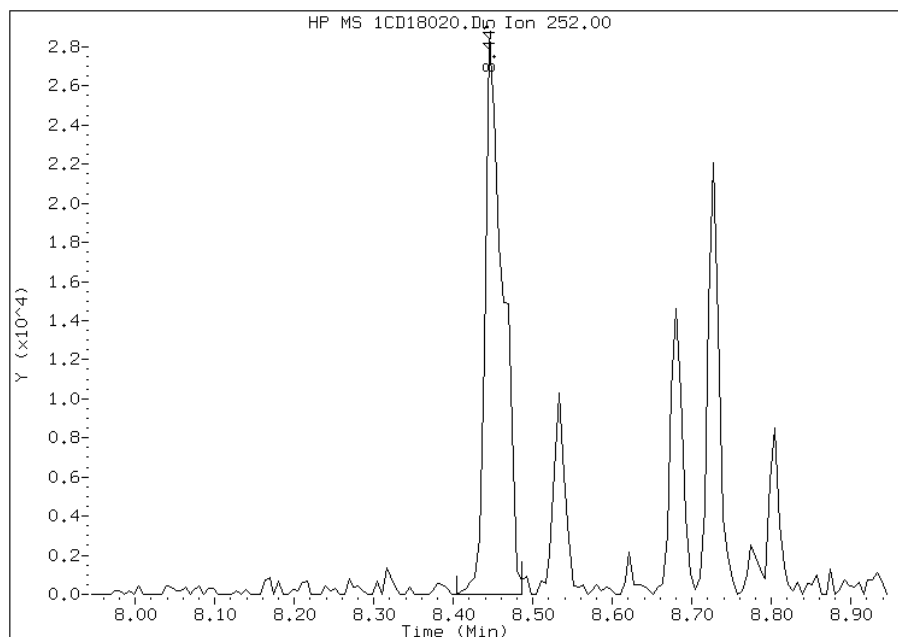
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 10:55  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18020.D  
Inj. Date and Time: 18-APR-2013 17:12  
Instrument ID: BSMC5973.i  
Client ID: FM0147A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

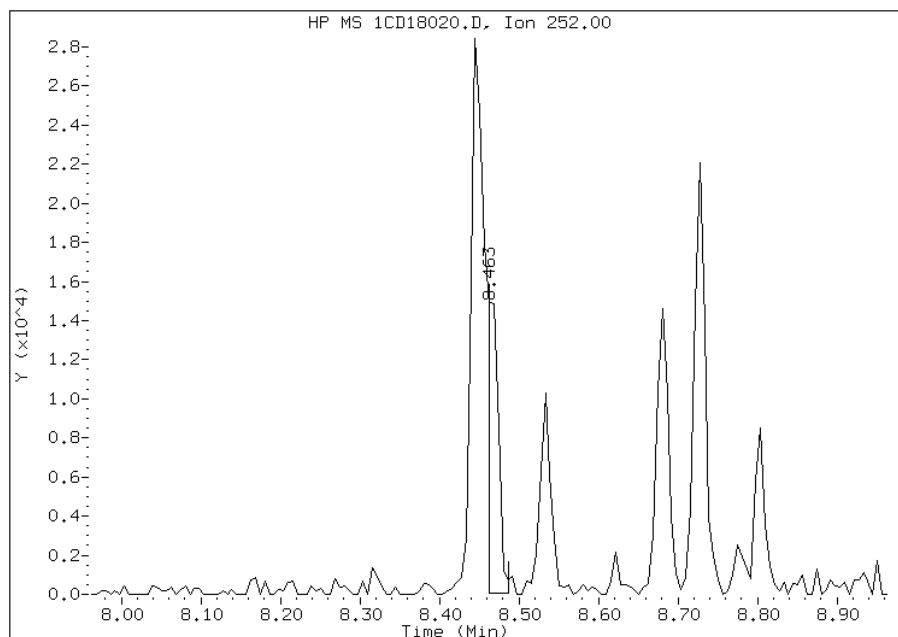
## Processing Integration Results

RT: 8.45  
Response: 45332  
Amount: 5  
Conc: 466



## Manual Integration Results

RT: 8.46  
Response: 14118  
Amount: 1  
Conc: 145



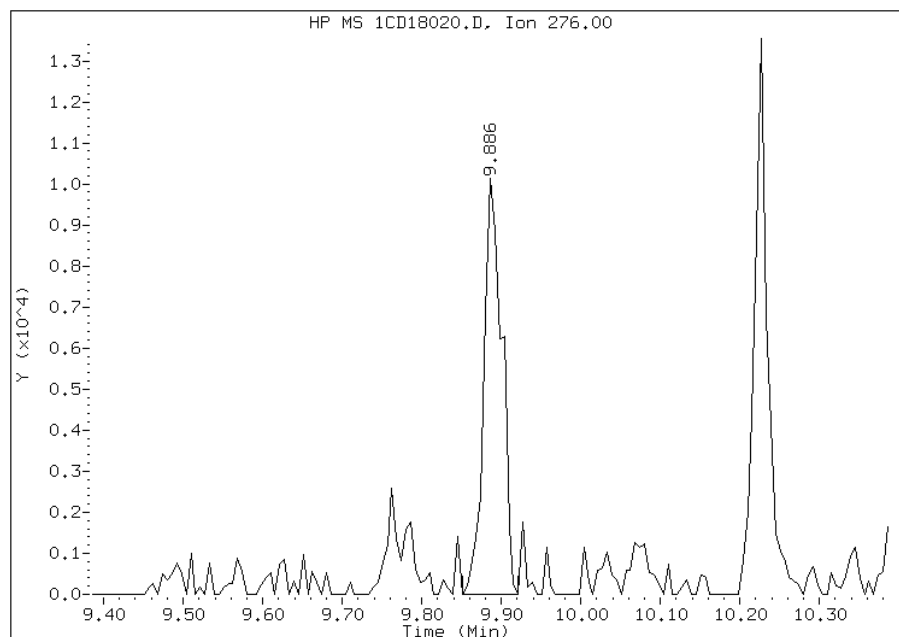
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 10:55  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18020.D  
Inj. Date and Time: 18-APR-2013 17:12  
Instrument ID: BSMC5973.i  
Client ID: FM0147A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

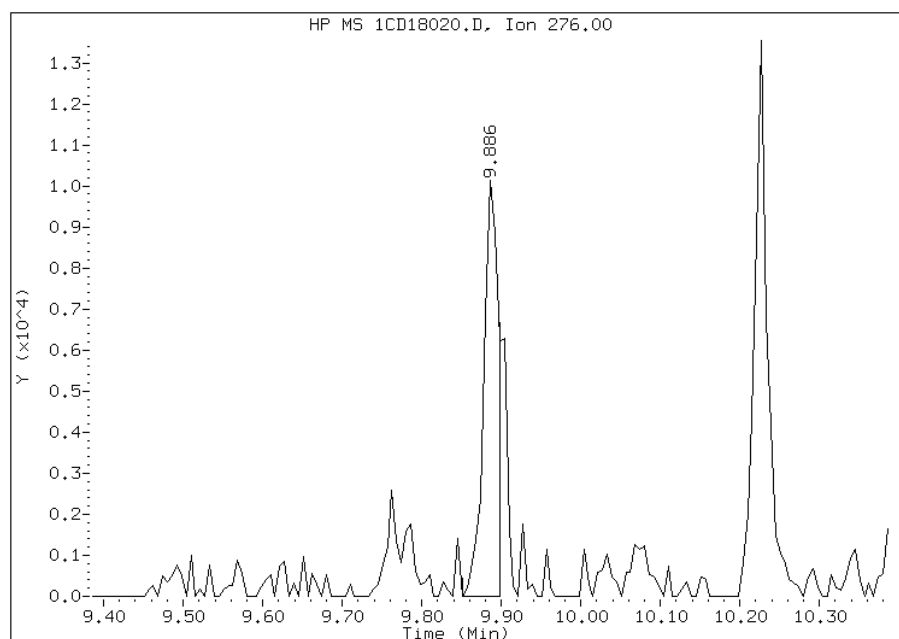
## Processing Integration Results

RT: 9.89  
Response: 15849  
Amount: 2  
Conc: 242



## Manual Integration Results

RT: 9.89  
Response: 12955  
Amount: 2  
Conc: 209



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 10:55  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0147B-CS Lab Sample ID: 680-89220-22  
 Matrix: Solid Lab File ID: 1CD18023.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 09:40  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.03(g) Date Analyzed: 04/18/2013 18:07  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 24.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	32	J	130	26
208-96-8	Acenaphthylene	40	J	53	6.6
120-12-7	Anthracene	51		11	5.5
56-55-3	Benzo[a]anthracene	240		11	5.1
50-32-8	Benzo[a]pyrene	210		14	6.8
205-99-2	Benzo[b]fluoranthene	370		16	8.0
191-24-2	Benzo[g,h,i]perylene	190		26	5.8
207-08-9	Benzo[k]fluoranthene	170		11	4.7
218-01-9	Chrysene	320		12	5.9
53-70-3	Dibenz(a,h)anthracene	110		26	5.4
206-44-0	Fluoranthene	370		26	5.3
86-73-7	Fluorene	32		26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	150		26	9.3
90-12-0	1-Methylnaphthalene	190		53	5.8
91-57-6	2-Methylnaphthalene	210		53	9.3
91-20-3	Naphthalene	150		53	5.8
85-01-8	Phenanthrene	420		11	5.1
129-00-0	Pyrene	370		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18023.D  
 Lab Smp Id: 680-89220-A-22-A Client Smp ID: FM0147B-CS  
 Inj Date : 18-APR-2013 18:07  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-22-a  
 Misc Info : 680-89220-A-22-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 23  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	24.018	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	259484	40.0000	
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	171512	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	332618	40.0000	
\$ 14 o-Terphenyl	230		5.939	5.945	(1.043)	38257	7.63535	668.5935
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	364227	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	349934	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	12203	1.73974	152.3414
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	10198	2.44662	214.2394
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	9688	2.16229	189.3418
5 Acenaphthylene	152		4.663	4.663	(0.983)	3306	0.45490	39.8331
7 Acenaphthene	154		4.768	4.769	(1.005)	1607	0.36691	32.1290
9 Fluorene	166		5.086	5.086	(1.072)	2031	0.36440	31.9087(Q)
11 Phenanthrene	178		5.704	5.704	(1.002)	46618	4.78124	418.6714
12 Anthracene	178		5.739	5.739	(1.008)	5599	0.57983	50.7731

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851	(1.028)	5764	0.64092	56.1222
15 Fluoranthene	202	6.539	6.539	(1.149)	46087	4.27119	374.0089
16 Pyrene	202	6.704	6.704	(0.879)	44332	4.27838	374.6381
17 Benzo(a)anthracene	228	7.615	7.615	(0.998)	28470	2.76418	242.0466
19 Chrysene	228	7.645	7.645	(1.002)	37062	3.63749	318.5184
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	36946	4.18015	366.0368
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.964)	19221	1.92187	168.2898
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	22012	2.40933	210.9739
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.898	(1.127)	9686	1.70655	149.4346(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.909	(1.128)	6974	1.22531	107.2945(M)
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.165)	18431	2.15231	188.4679(M)

QC Flag Legend

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

Data File: 1CD18023.D

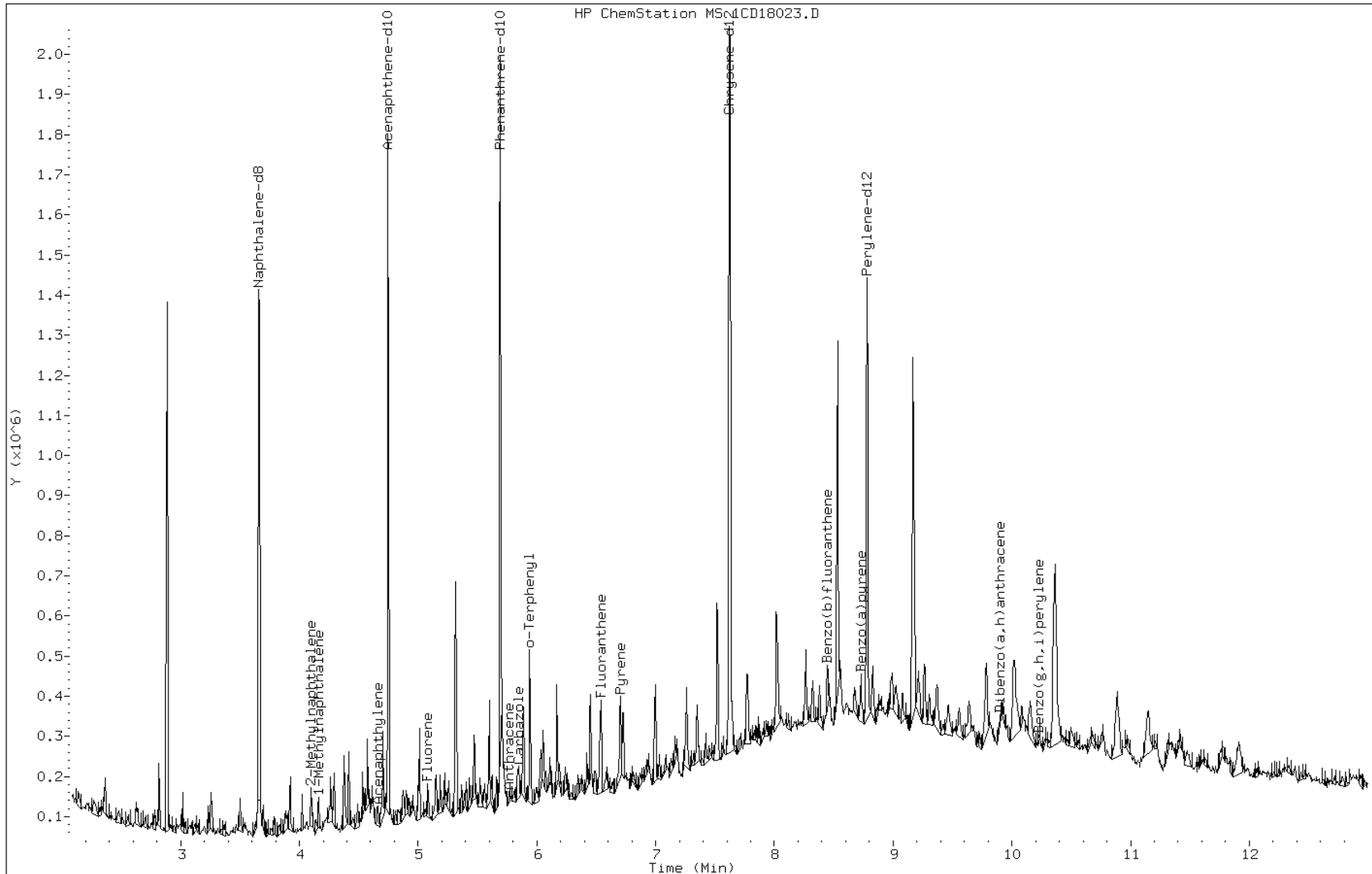
Date: 18-APR-2013 18:07

Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

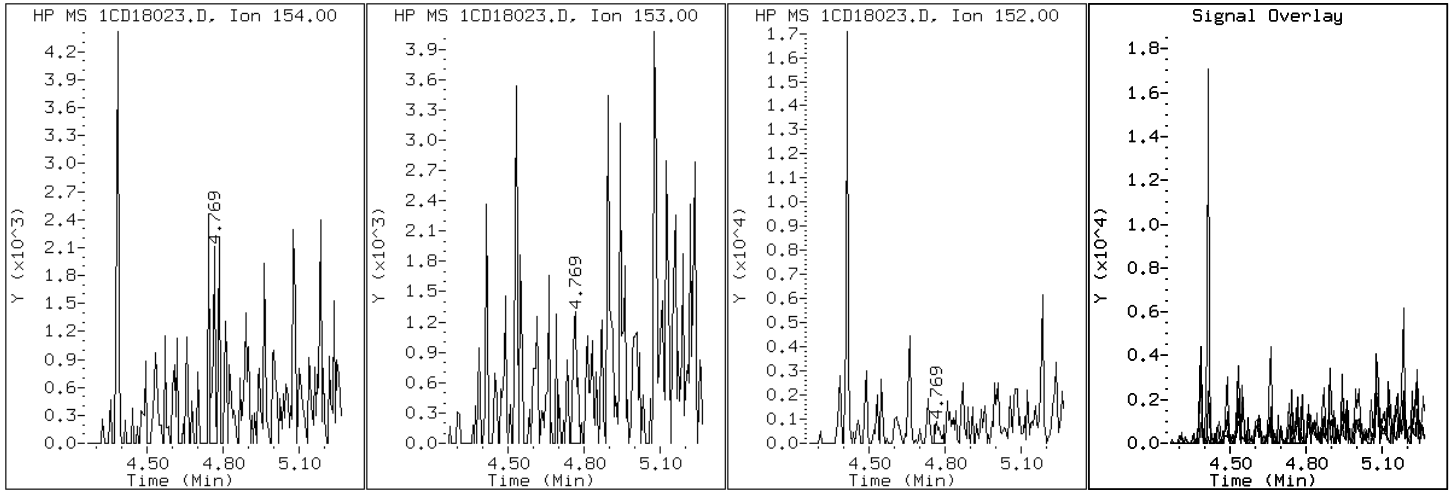
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

7 Acenaphthene





Data File: 1CD18023.D

Date: 18-APR-2013 18:07

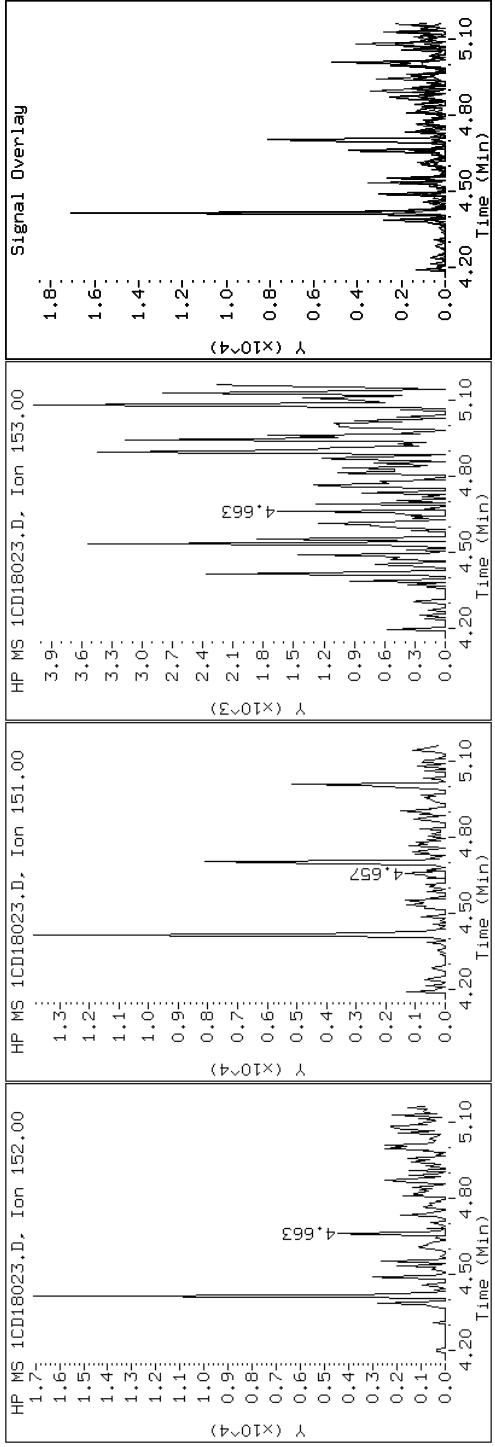
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

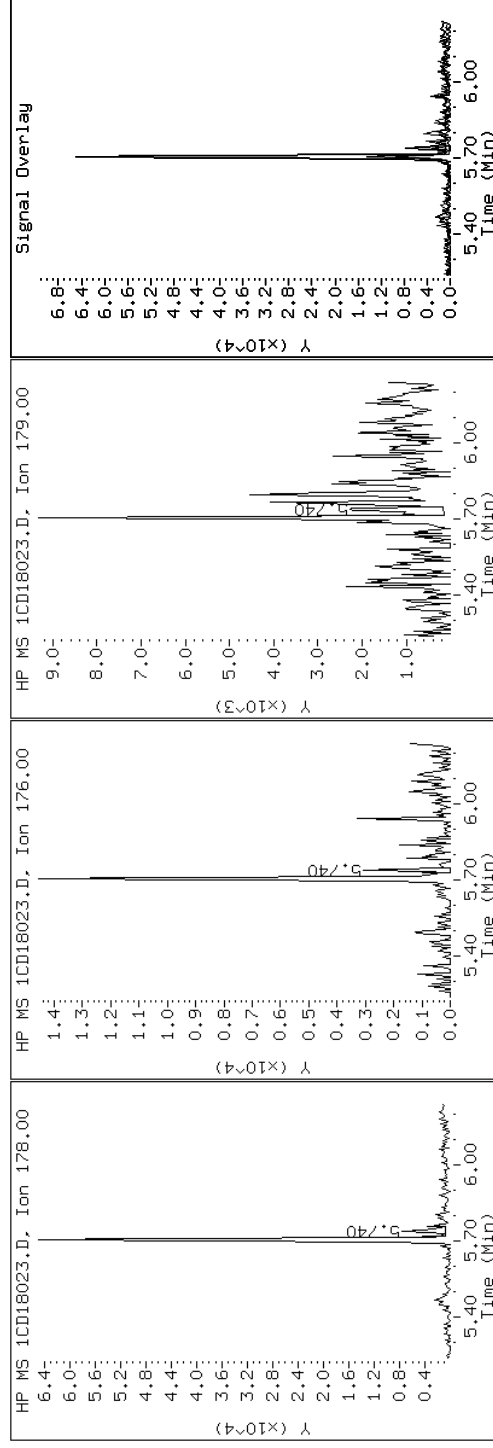
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

12 Anthracene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

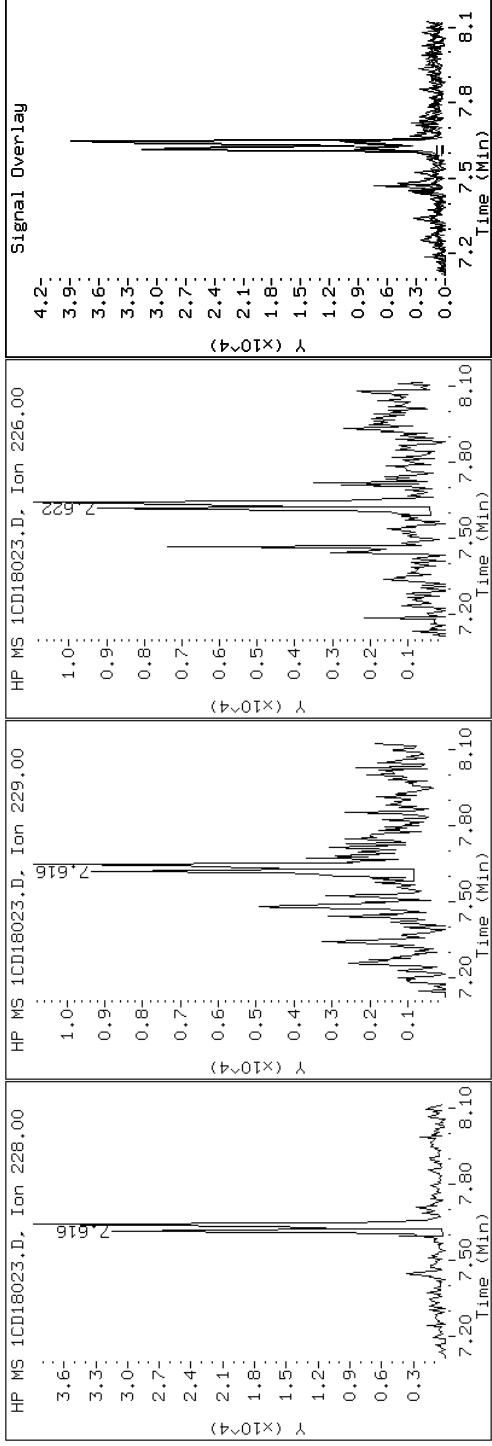
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

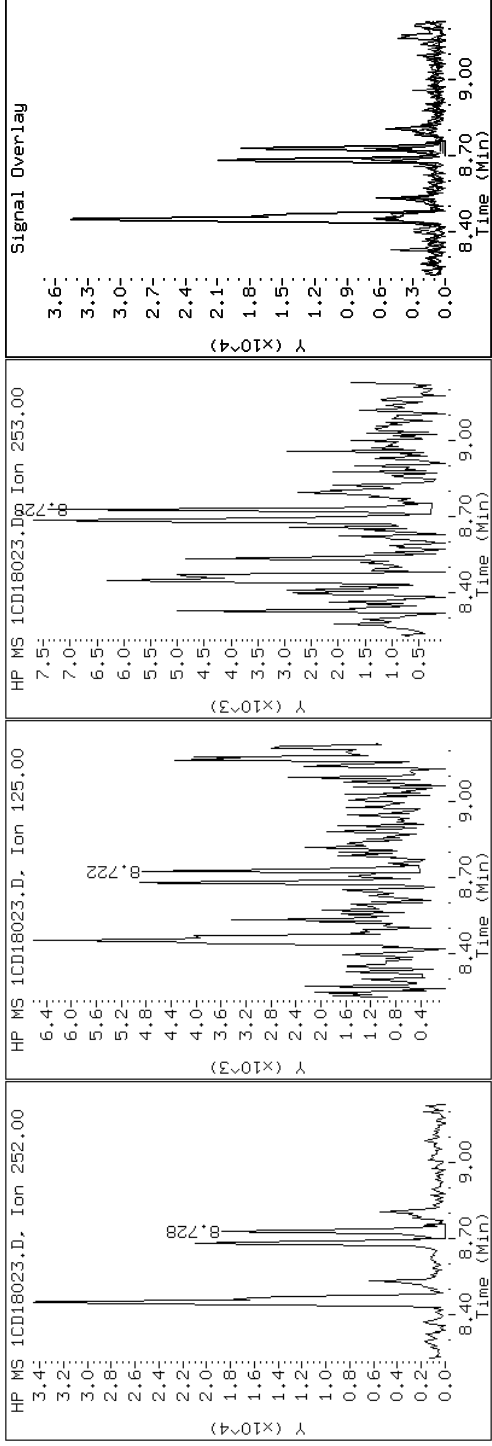
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

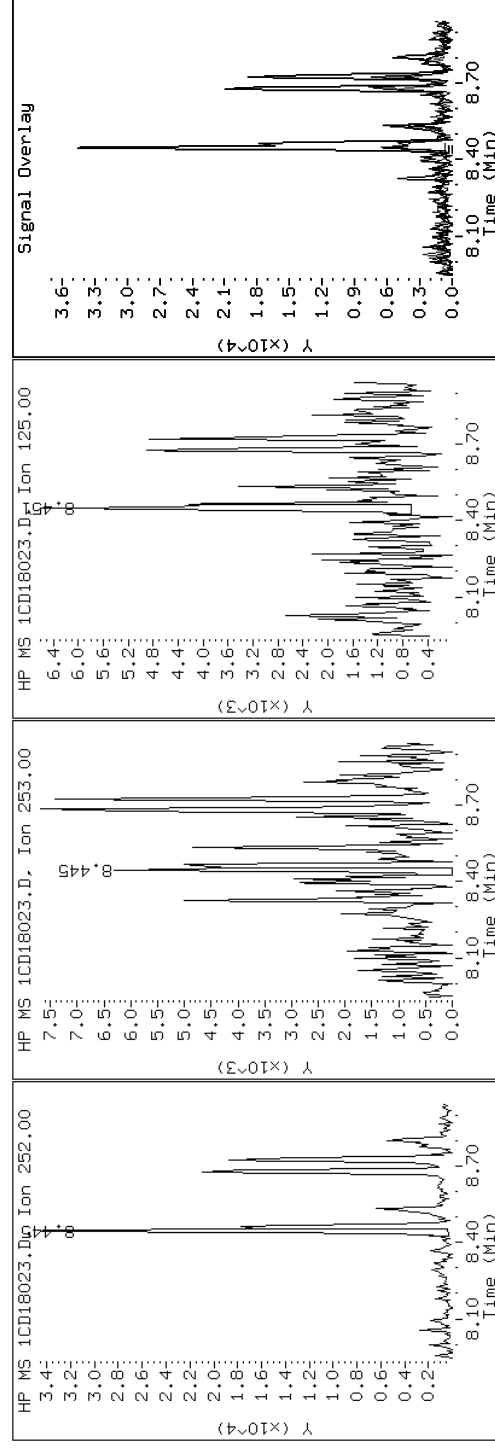
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

### 20 Benzo(b)fluoranthene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

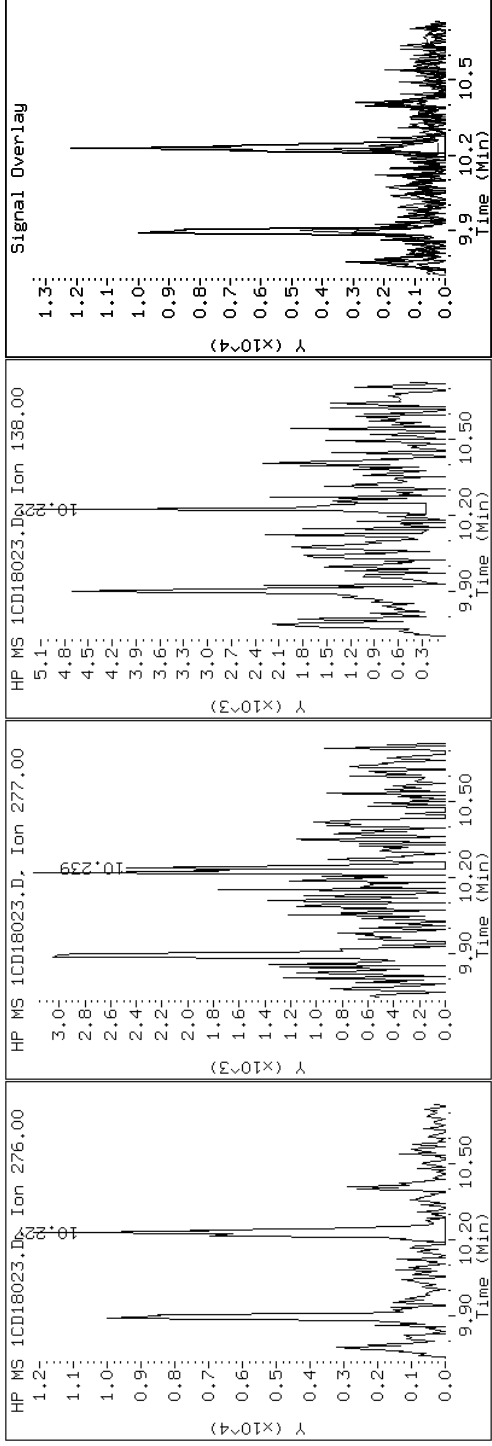
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

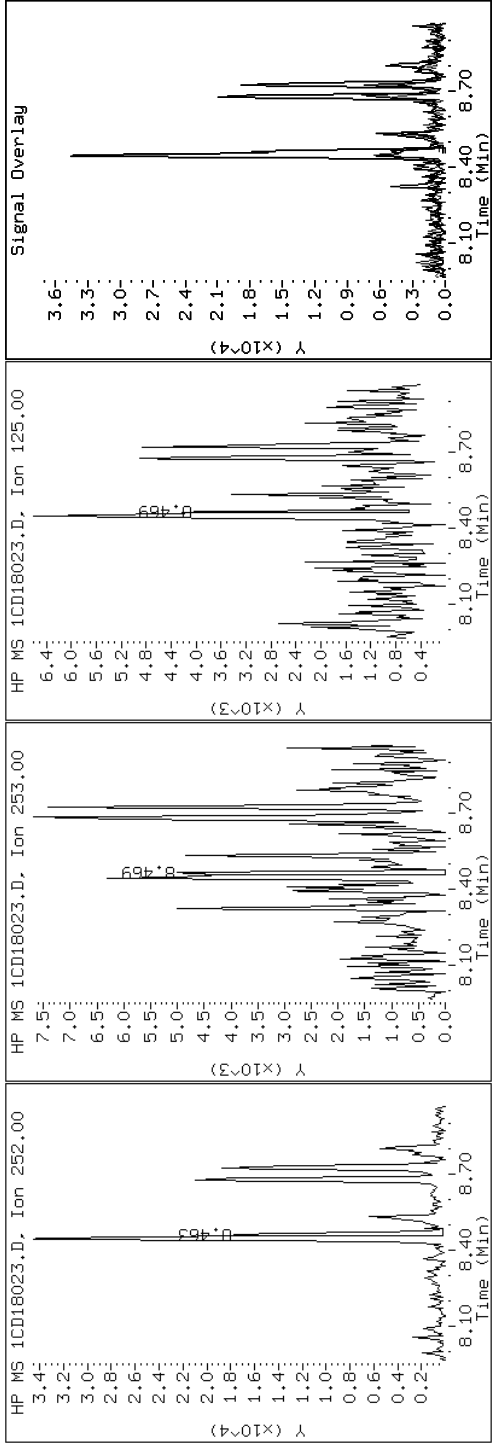
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

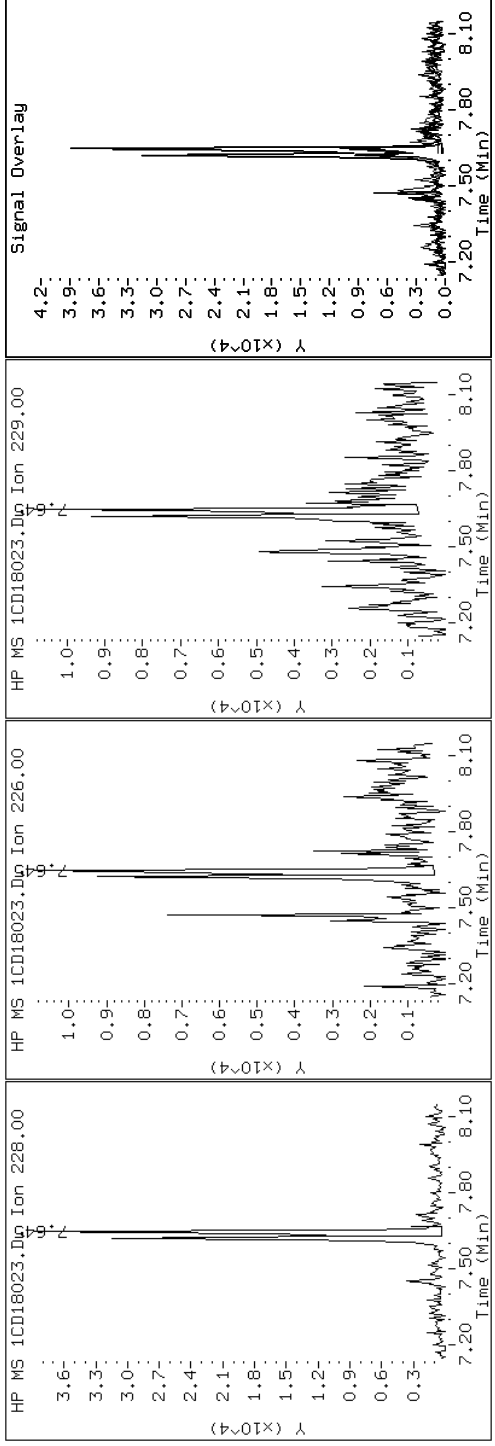
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

19 Chrysene





Data File: 1CD18023.D

Date: 18-APR-2013 18:07

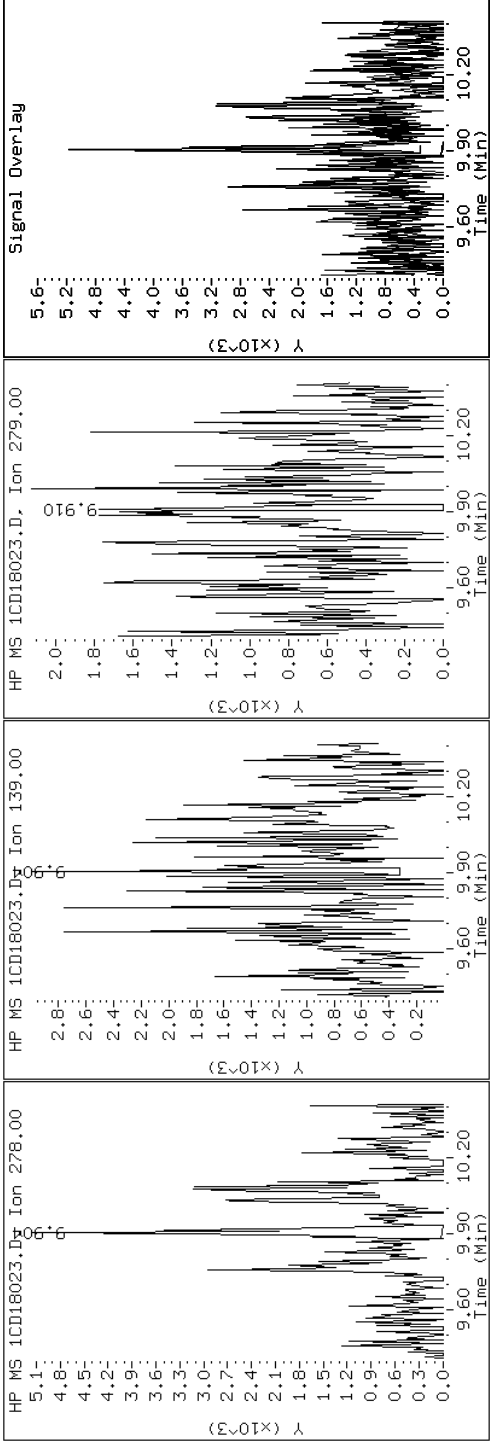
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

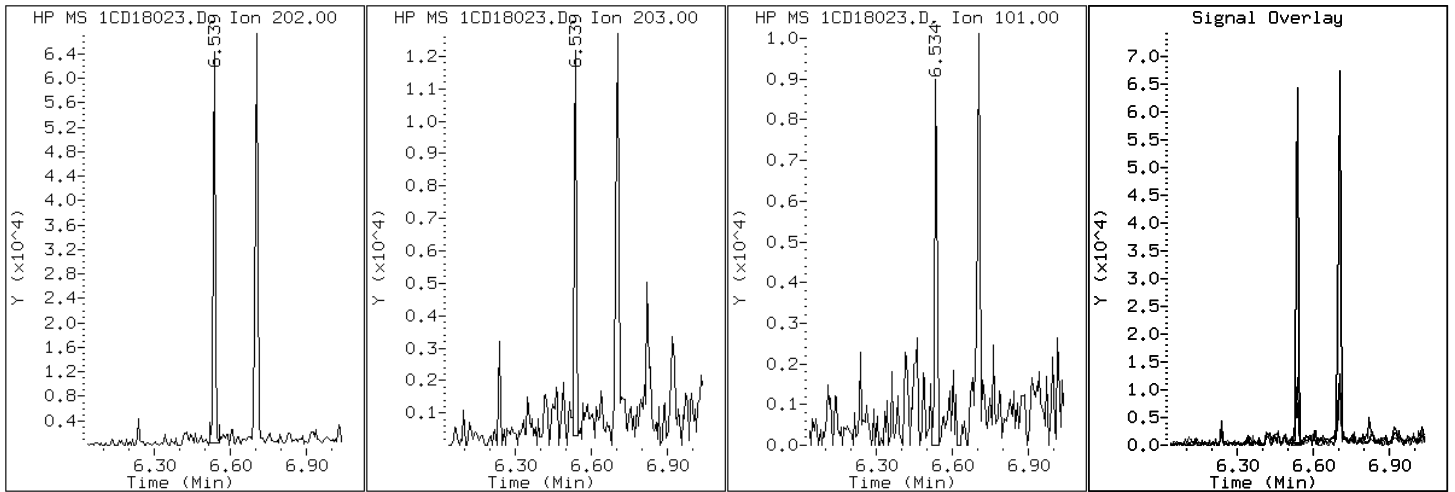
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

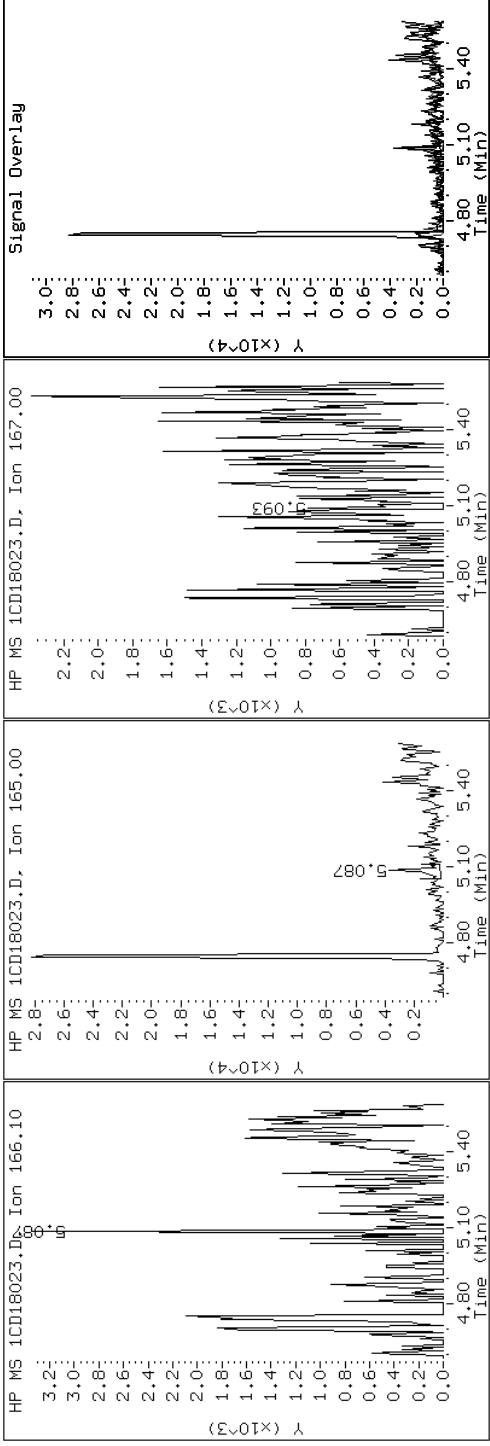
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

9 Fluorene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

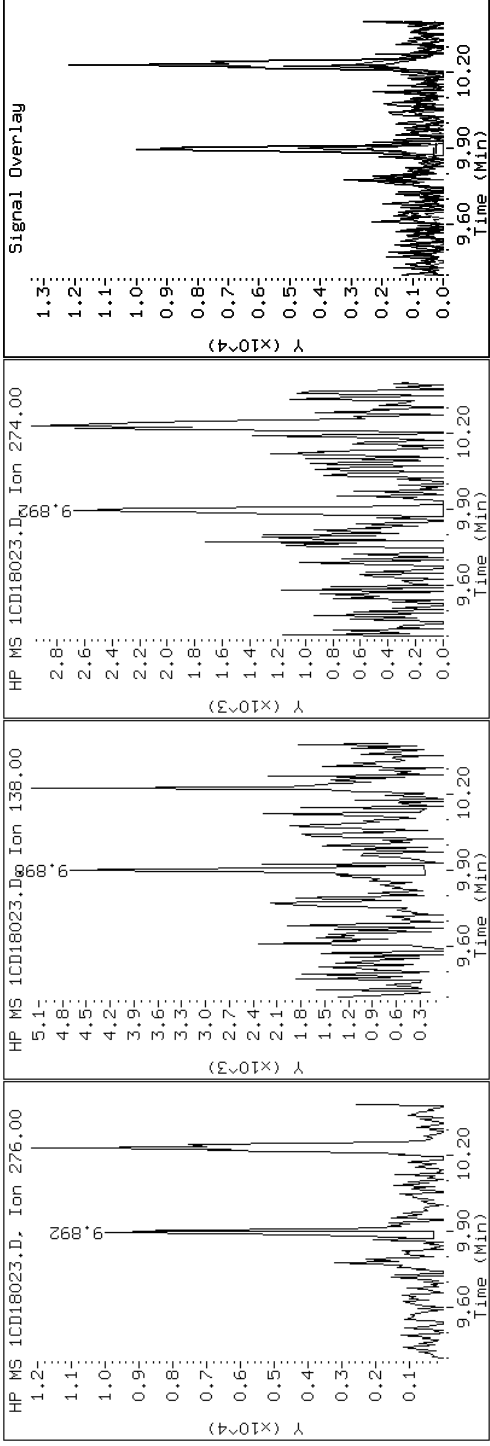
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

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



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

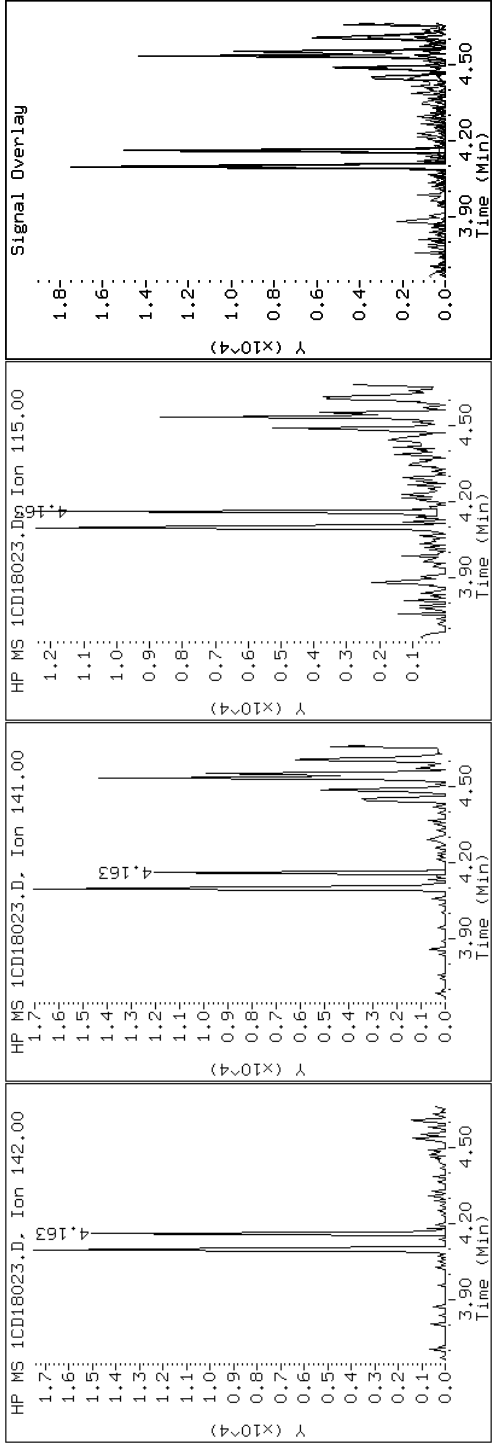
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

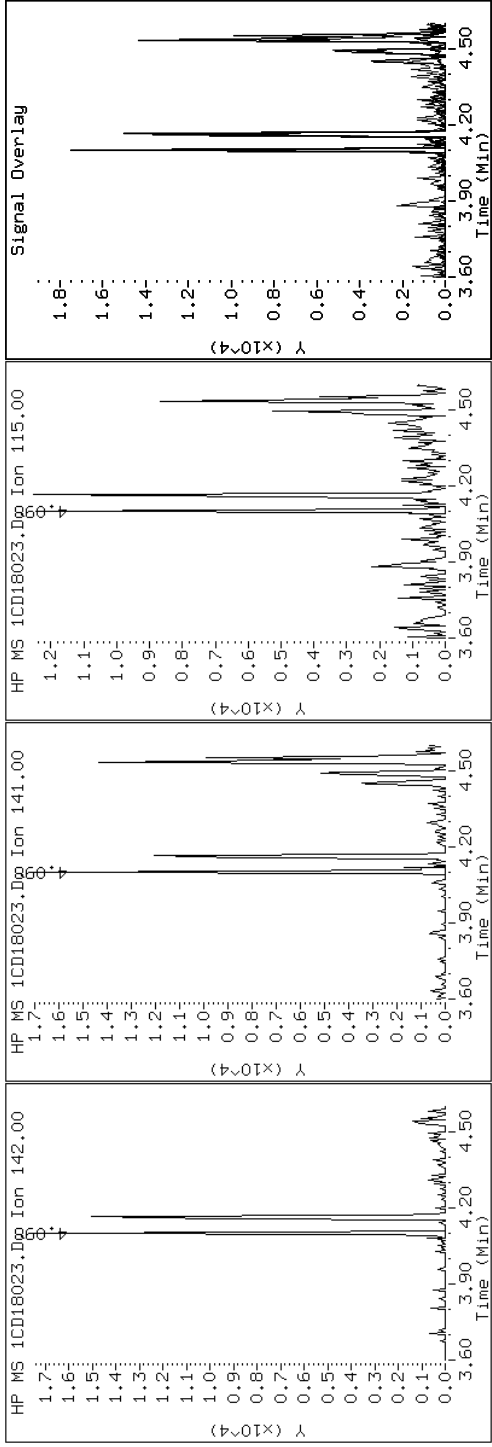
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

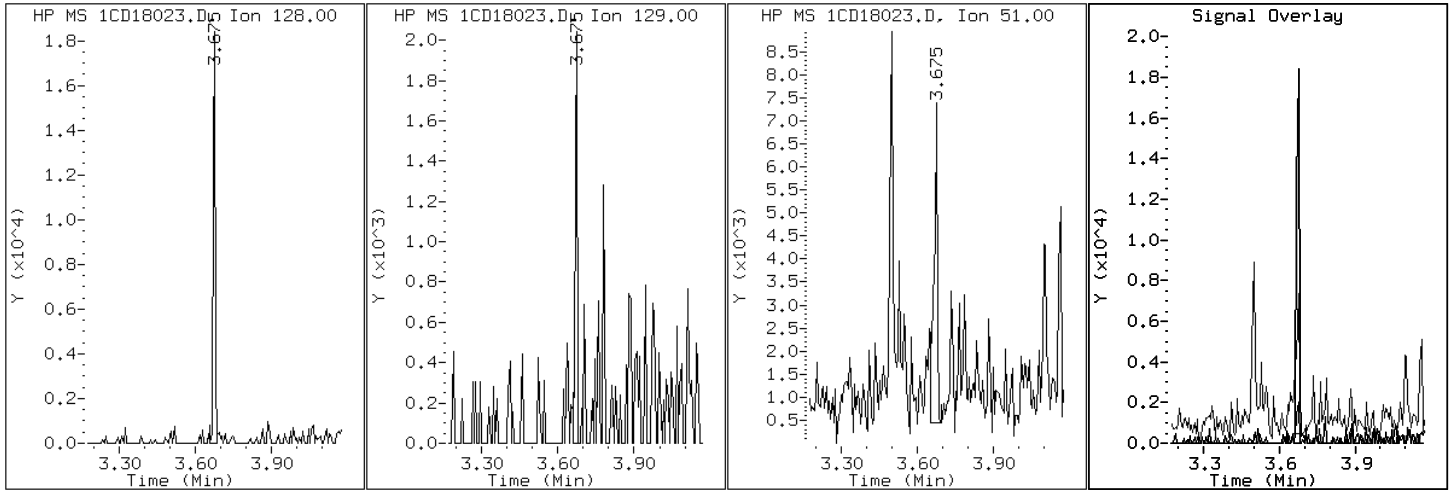
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

2 Naphthalene



Data File: 1CD18023.D

Date: 18-APR-2013 18:07

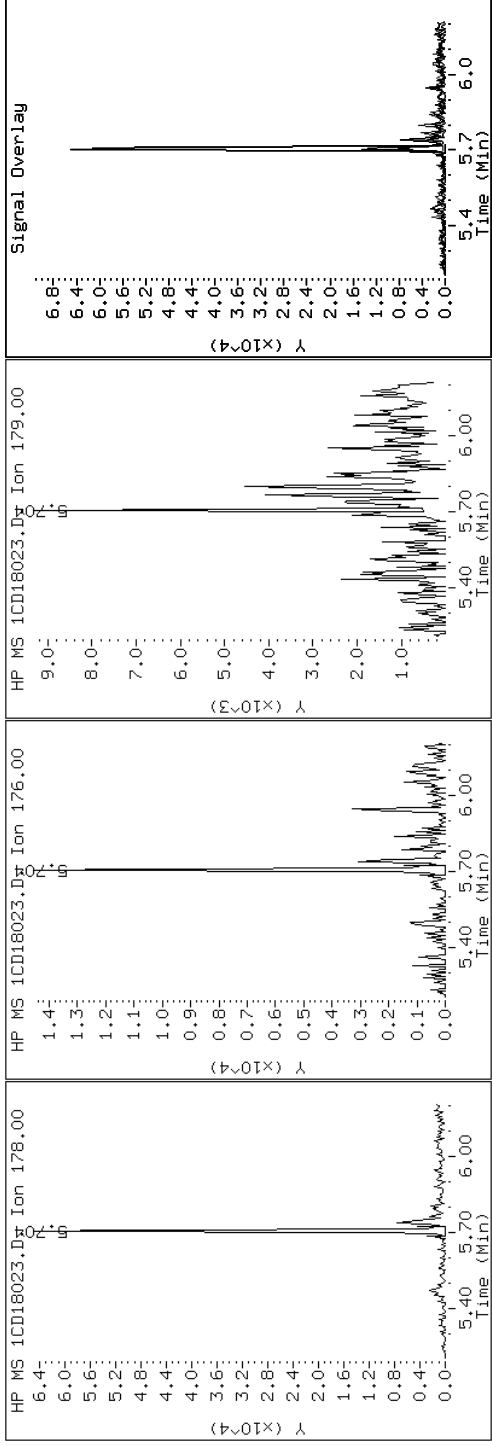
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

11 Phenanthrene





Data File: 1CD18023.D

Date: 18-APR-2013 18:07

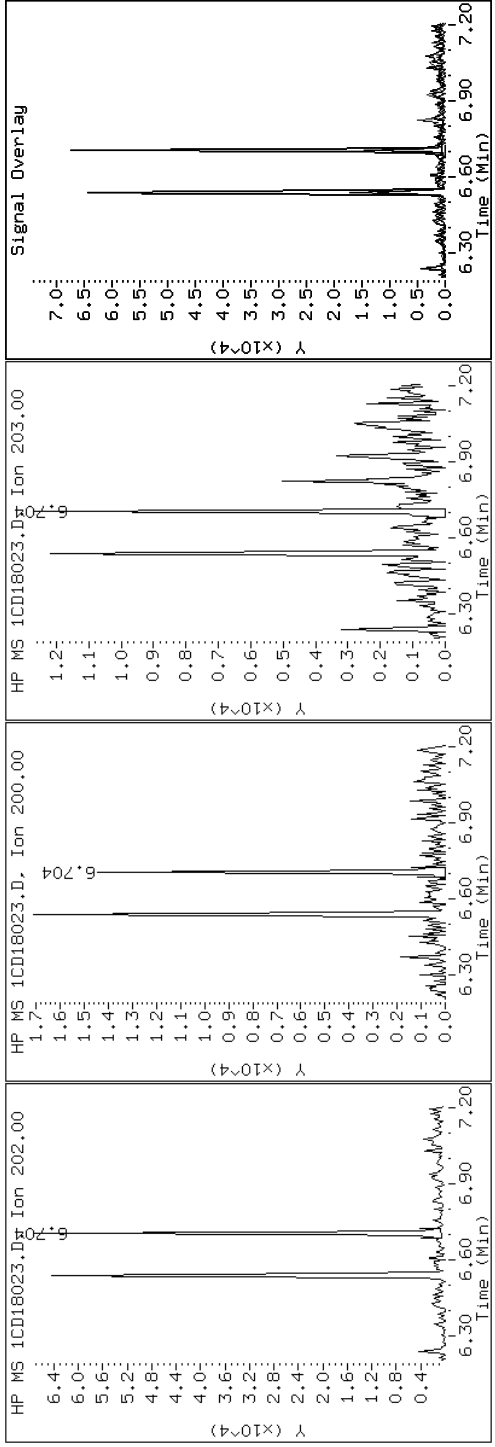
Client ID: FM0147B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-22-a

Operator: SCC

16 Pyrene

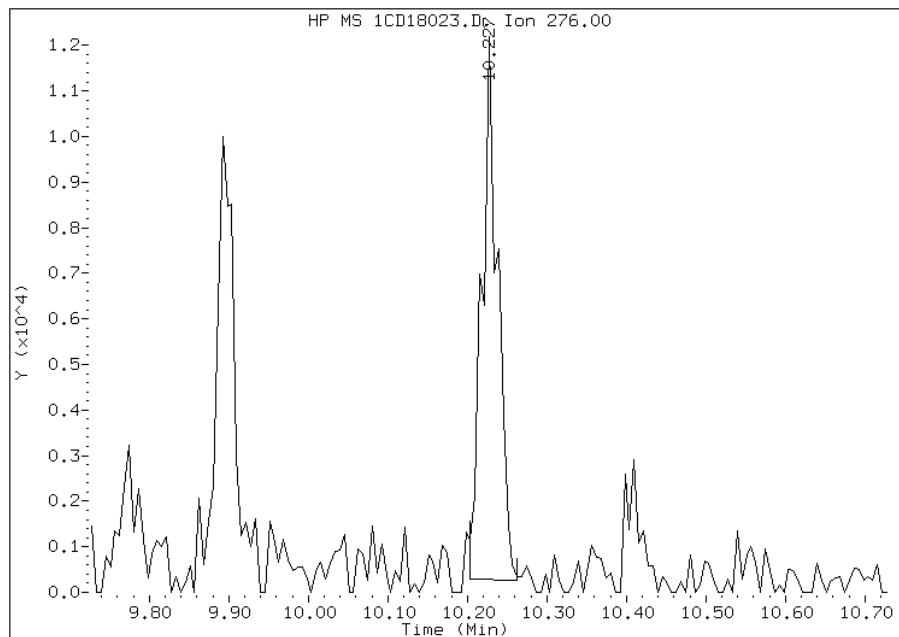


# Manual Integration Report

Data File: 1CD18023.D  
Inj. Date and Time: 18-APR-2013 18:07  
Instrument ID: BSMC5973.i  
Client ID: FM0147B-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/19/2013

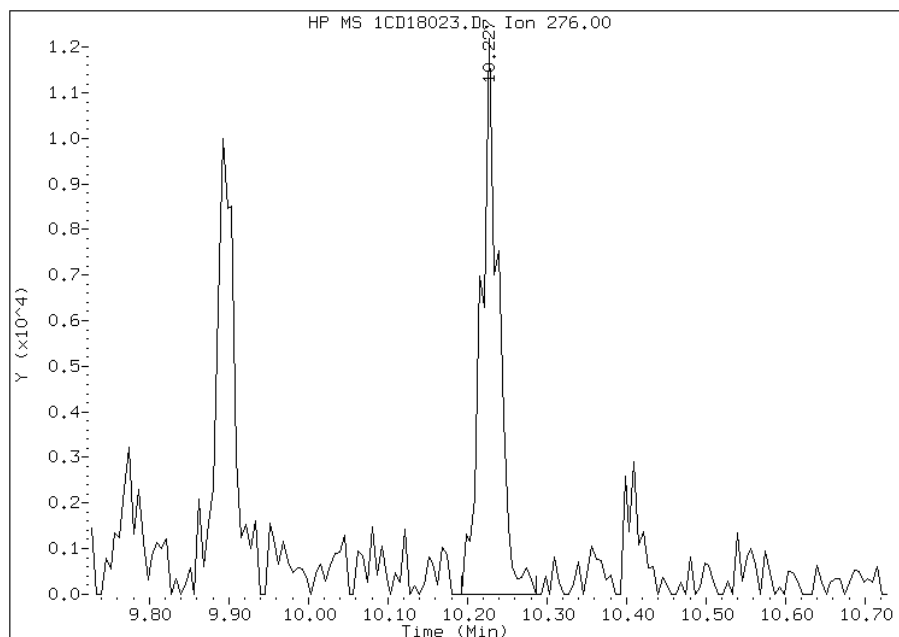
## Processing Integration Results

RT: 10.23  
Response: 16436  
Amount: 2  
Conc: 168



## Manual Integration Results

RT: 10.23  
Response: 18431  
Amount: 2  
Conc: 188



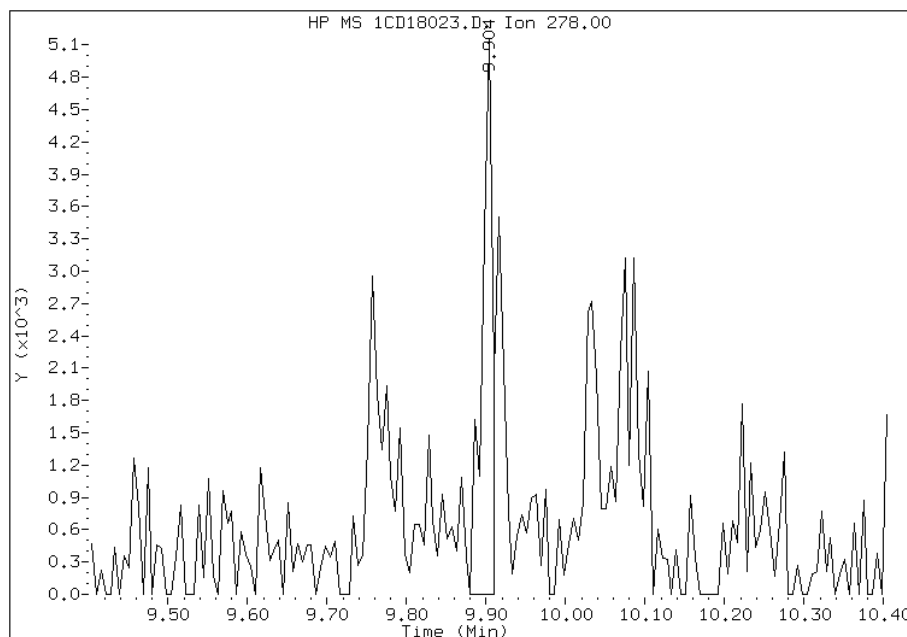
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:16  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18023.D  
Inj. Date and Time: 18-APR-2013 18:07  
Instrument ID: BSMC5973.i  
Client ID: FM0147B-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/19/2013

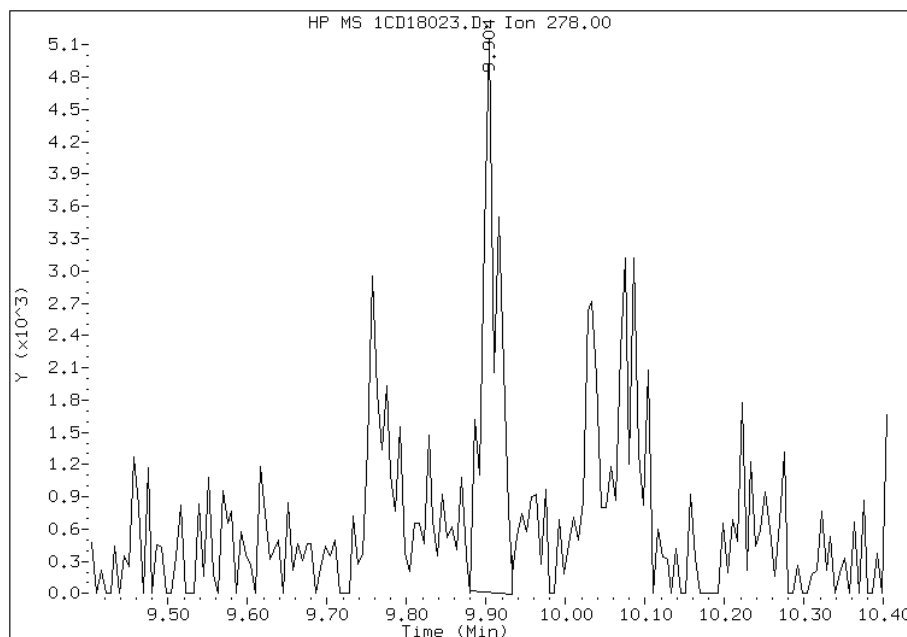
## Processing Integration Results

RT: 9.90  
Response: 4690  
Amount: 1  
Conc: 85



## Manual Integration Results

RT: 9.90  
Response: 6974  
Amount: 1  
Conc: 107



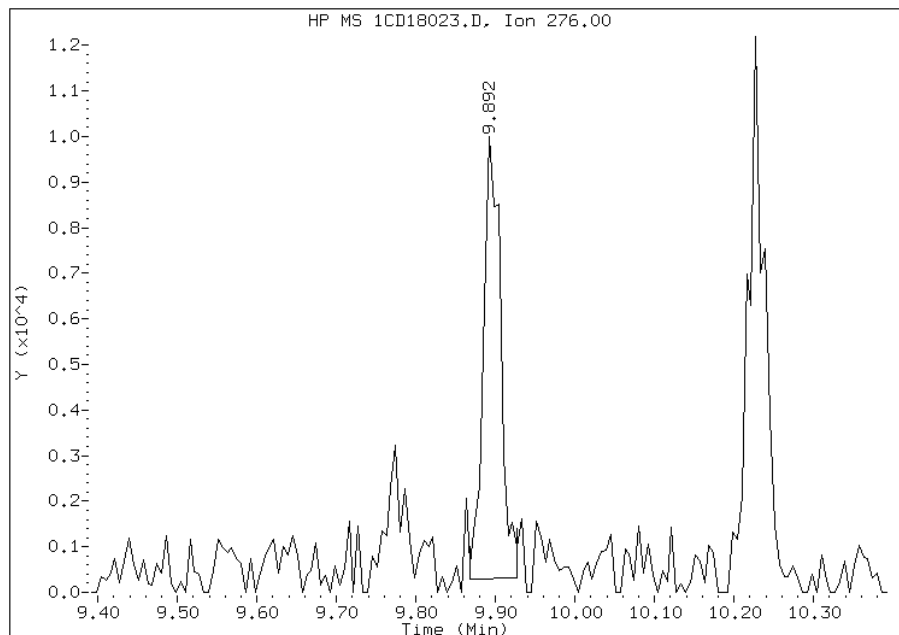
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:16  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18023.D  
Inj. Date and Time: 18-APR-2013 18:07  
Instrument ID: BSMC5973.i  
Client ID: FM0147B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

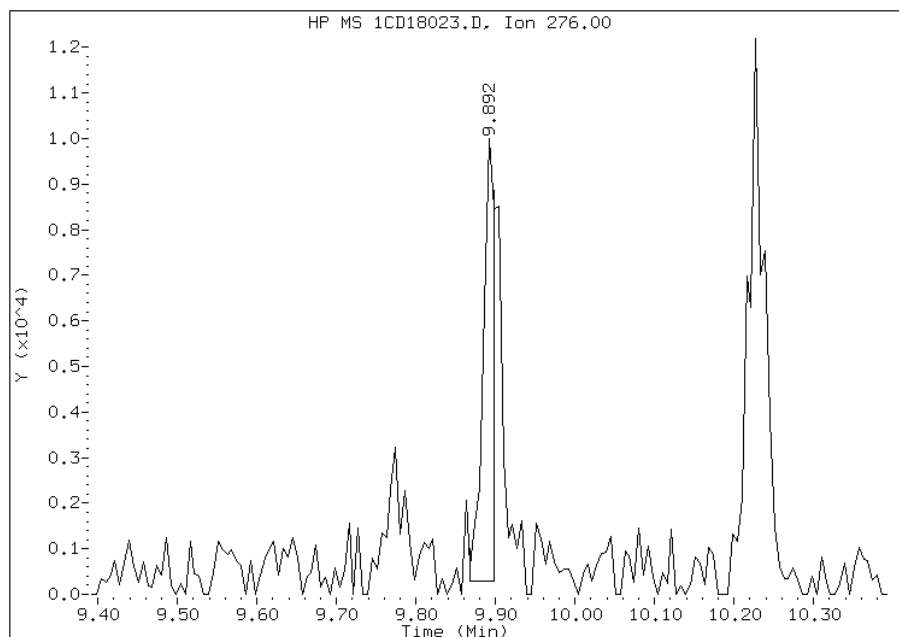
## Processing Integration Results

RT: 9.89  
Response: 14540  
Amount: 2  
Conc: 196



## Manual Integration Results

RT: 9.89  
Response: 9686  
Amount: 2  
Conc: 149



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:17  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0249A-CS Lab Sample ID: 680-89220-23  
 Matrix: Solid Lab File ID: 1CD18024.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 09:10  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 14.92(g) Date Analyzed: 04/18/2013 18:25  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	63	J	130	26
208-96-8	Acenaphthylene	250		52	6.4
120-12-7	Anthracene	360		11	5.4
56-55-3	Benzo[a]anthracene	1300		10	5.0
50-32-8	Benzo[a]pyrene	1300		13	6.7
205-99-2	Benzo[b]fluoranthene	2500		16	7.9
191-24-2	Benzo[g,h,i]perylene	1200		26	5.7
207-08-9	Benzo[k]fluoranthene	1300		10	4.6
218-01-9	Chrysene	1500		12	5.8
53-70-3	Dibenz(a,h)anthracene	390		26	5.3
206-44-0	Fluoranthene	2700		26	5.2
86-73-7	Fluorene	66		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	940		26	9.1
90-12-0	1-Methylnaphthalene	130		52	5.7
91-57-6	2-Methylnaphthalene	180		52	9.1
91-20-3	Naphthalene	220		52	5.7
85-01-8	Phenanthrene	1500		10	5.0
129-00-0	Pyrene	2300		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18024.D  
 Lab Smp Id: 680-89220-A-23-A Client Smp ID: FM0249A-CS  
 Inj Date : 18-APR-2013 18:25  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-23-a  
 Misc Info : 680-89220-A-23-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 24  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	21.921	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	275655	40.0000	
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	185646	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	337845	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	37506	7.39365	634.6792
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	382990	40.0000	
* 23 Perylene-d12	264		8.786	8.780	(1.000)	357414	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	18938	2.54154	218.1685
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	9296	2.13809	183.5360
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	7388	1.55221	133.2435
5 Acenaphthylene	152		4.662	4.663	(0.983)	23128	2.94006	252.3777
7 Acenaphthene	154		4.768	4.769	(1.005)	3484	0.73491	63.0857
9 Fluorene	166		5.086	5.086	(1.072)	4638	0.76879	65.9935
11 Phenanthrene	178		5.704	5.704	(1.002)	173182	17.5433	1505.9336
12 Anthracene	178		5.739	5.739	(1.008)	41297	4.21054	361.4371

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851	(1.028)	30932	3.38621	290.6762
15 Fluoranthene	202	6.539	6.539	(1.149)	343125	31.3077	2687.4863
16 Pyrene	202	6.709	6.704	(0.880)	288532	26.4814	2273.1881
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	165407	15.2727	1311.0289
19 Chrysene	228	7.645	7.645	(1.002)	189484	17.6860	1518.1863
20 Benzo(b)fluoranthene	252	8.456	8.445	(0.963)	263981	29.2423	2510.1908(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	154687	15.1432	1299.9076(M)
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	137687	14.7552	1266.5981
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.898	(1.127)	95429	10.9330	938.5040(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.128)	37009	4.49071	385.4871
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	126905	14.5094	1245.5008

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD18024.D

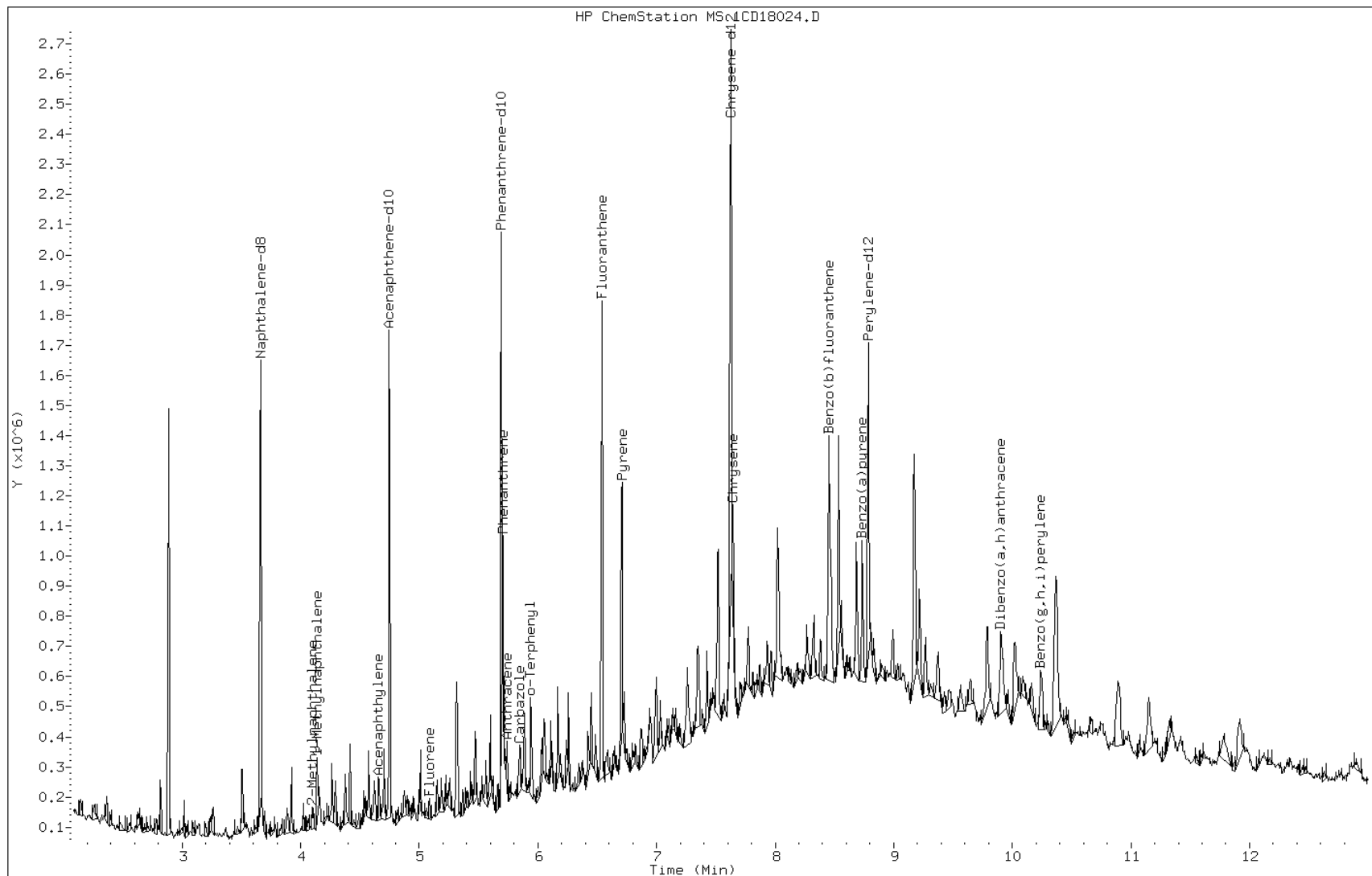
Date: 18-APR-2013 18:25

Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC





Data File: 1CD18024.D

Date: 18-APR-2013 18:25

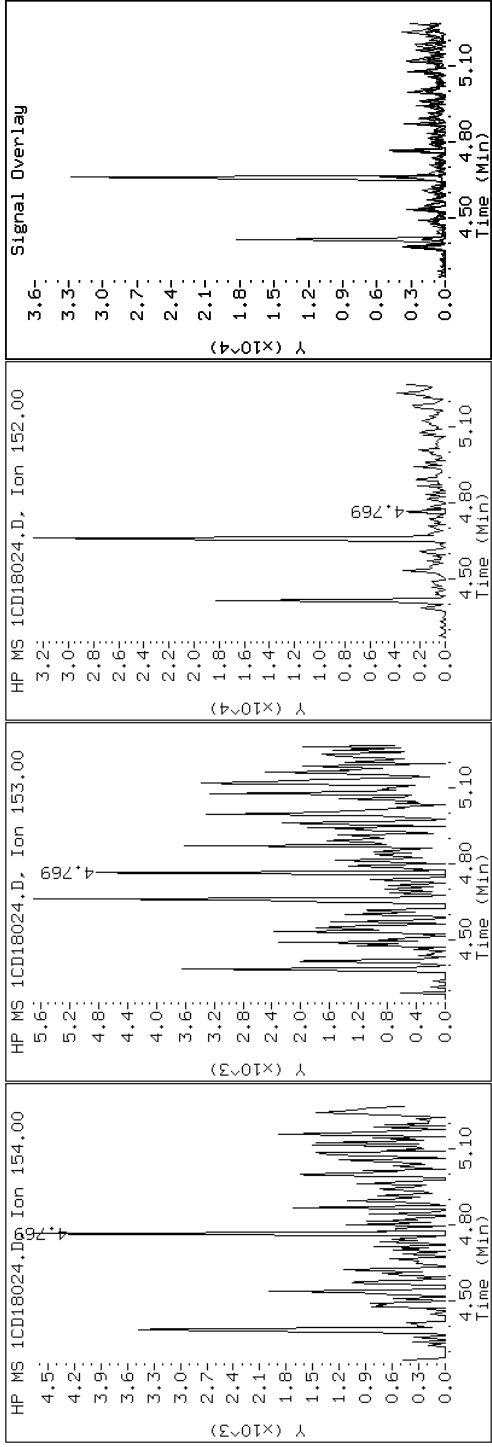
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

7 Acenaphthene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

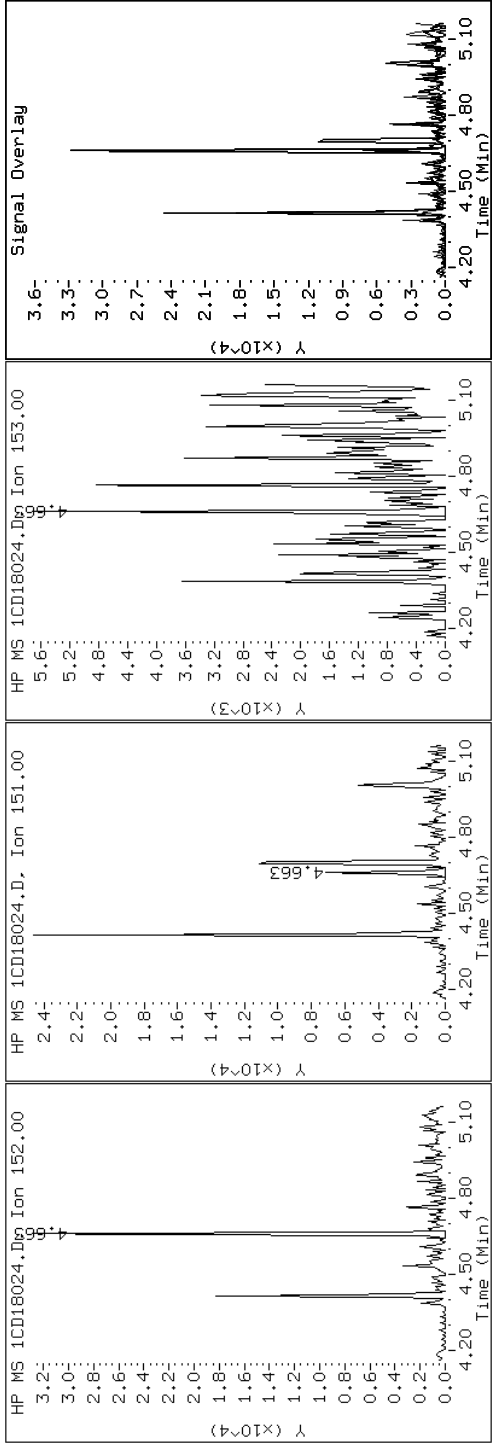
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

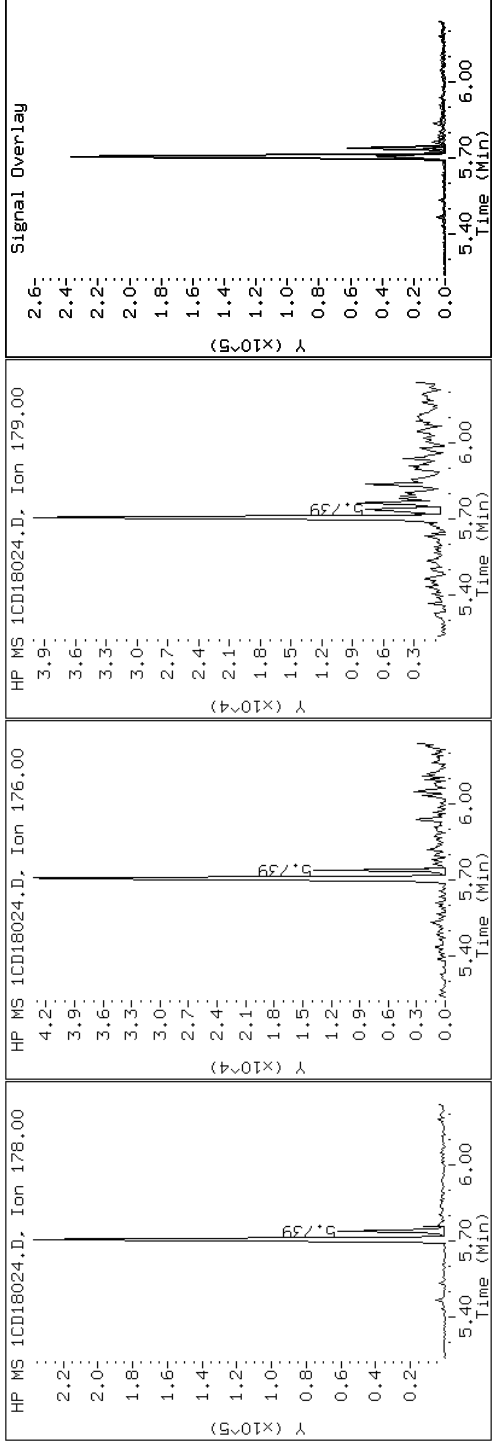
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

12 Anthracene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

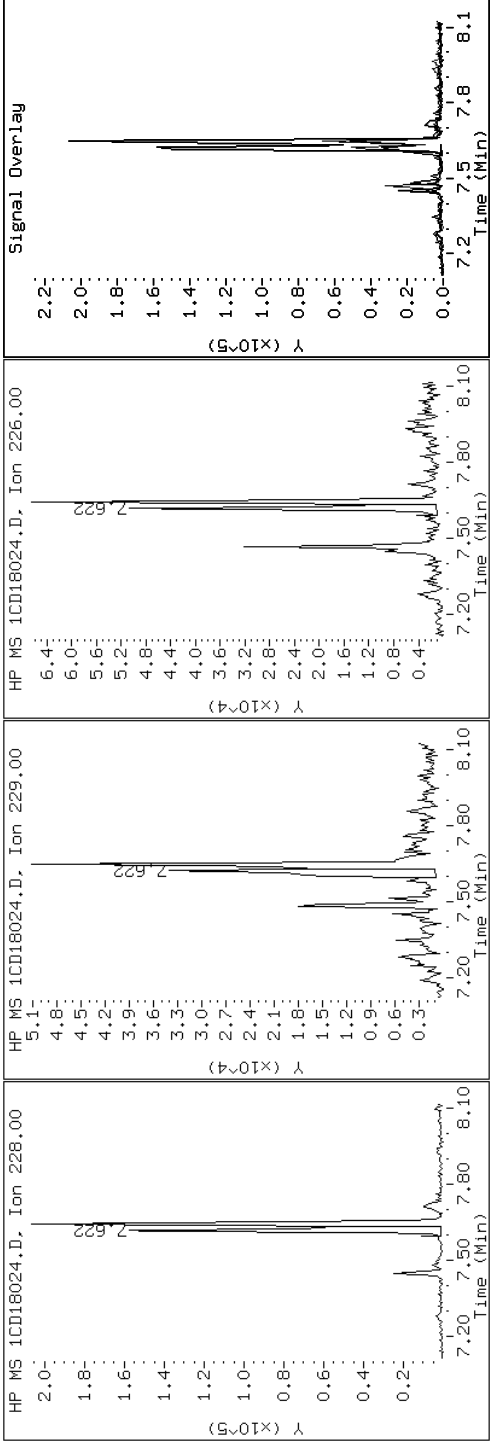
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

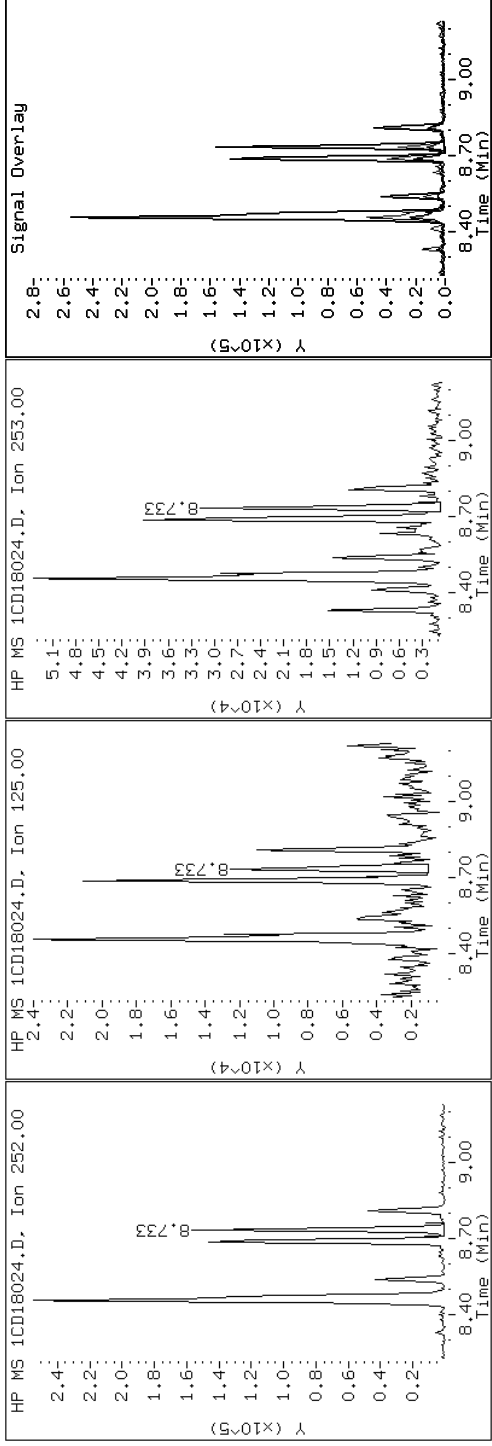
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

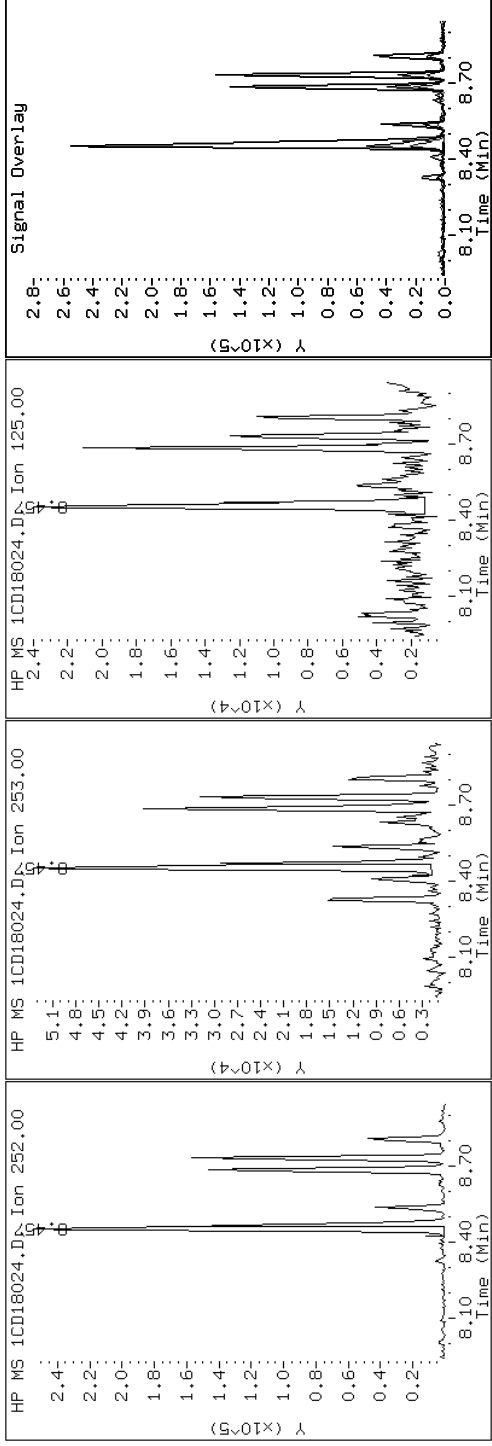
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

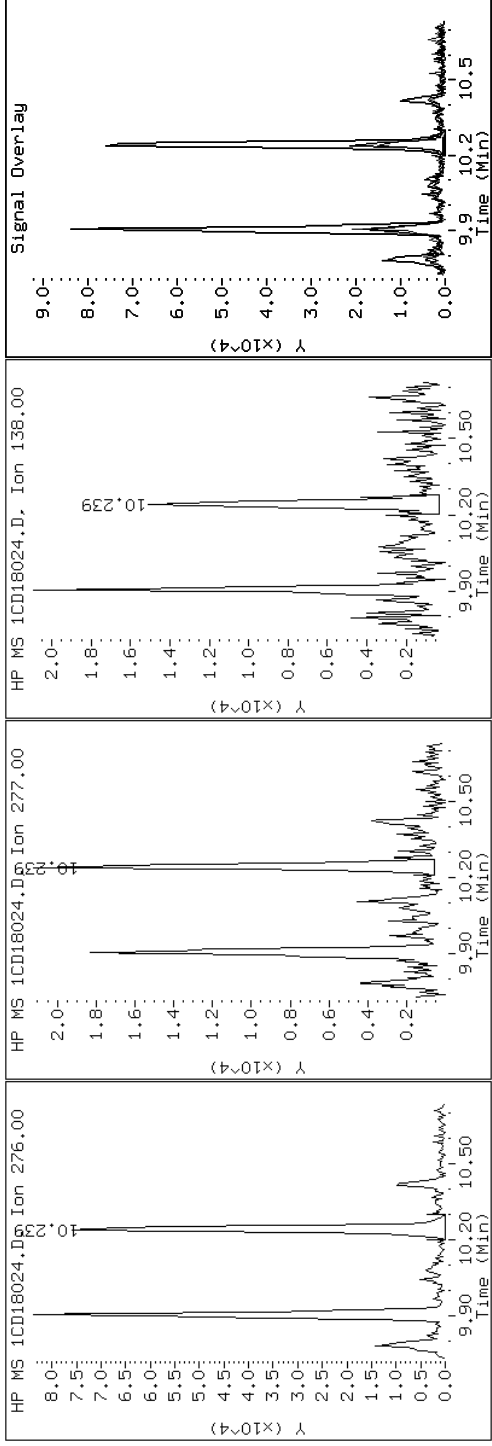
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

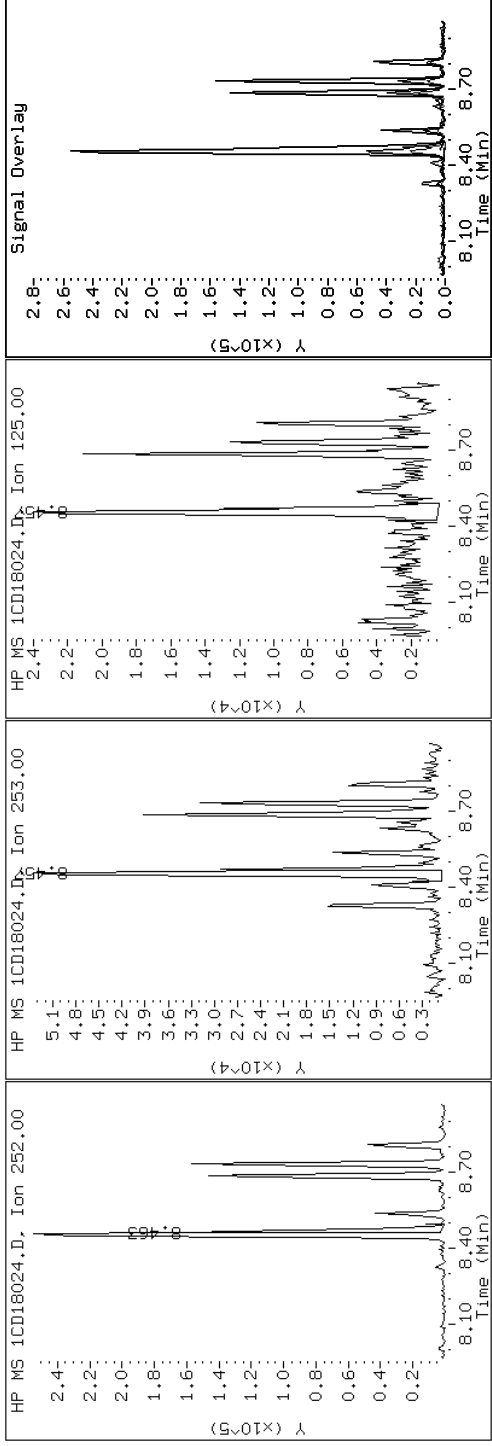
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CD18024.D

Date: 18-APR-2013 18:25

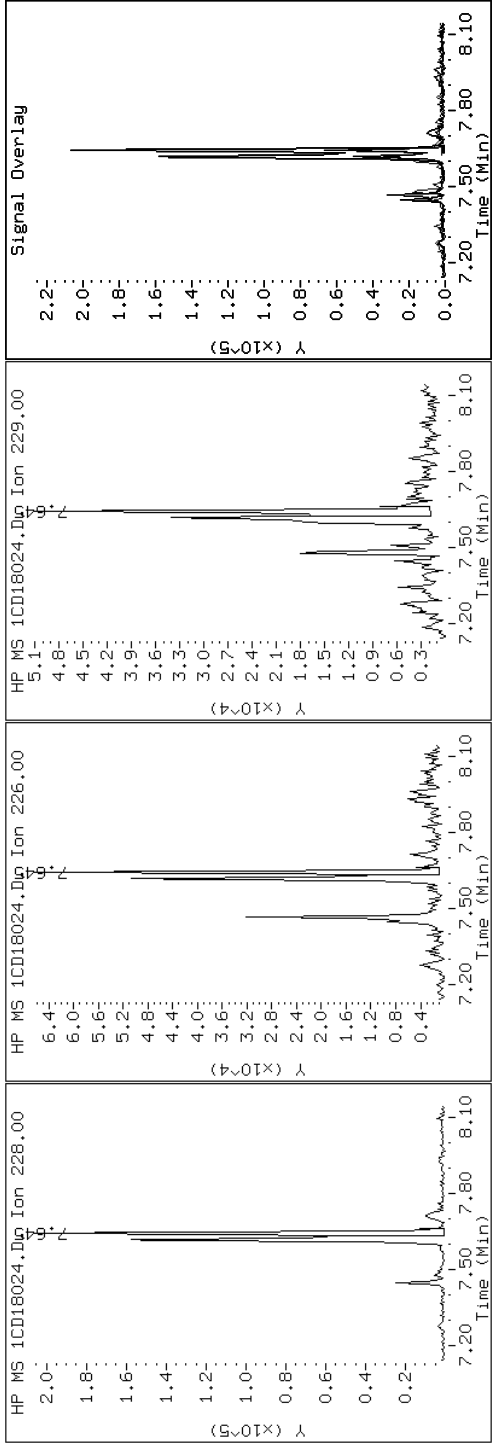
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

19 Chrysene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

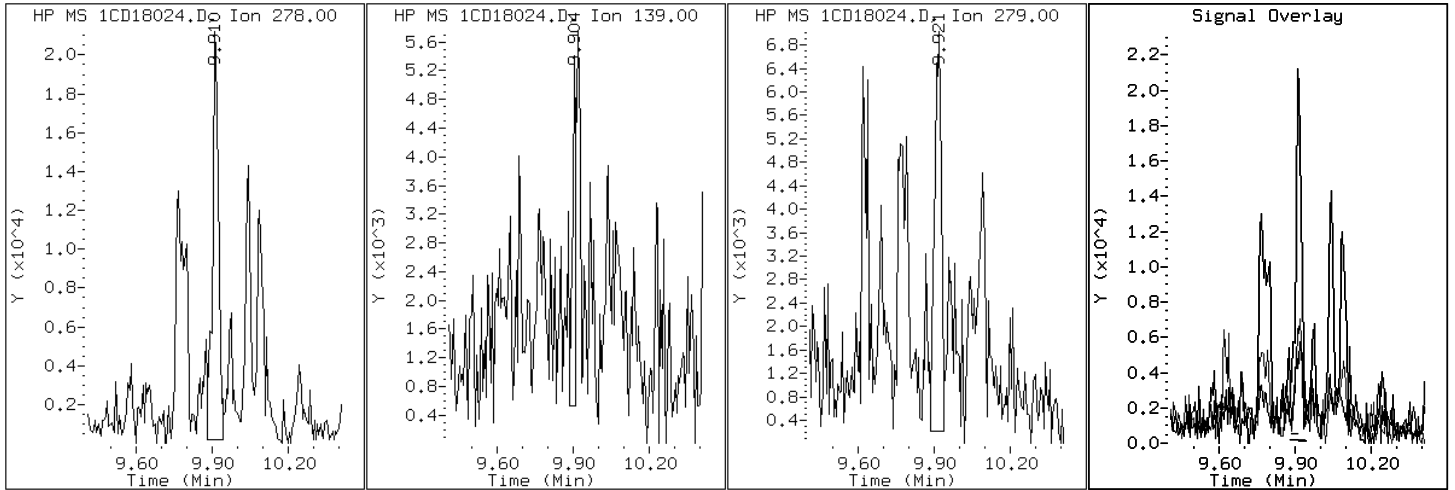
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

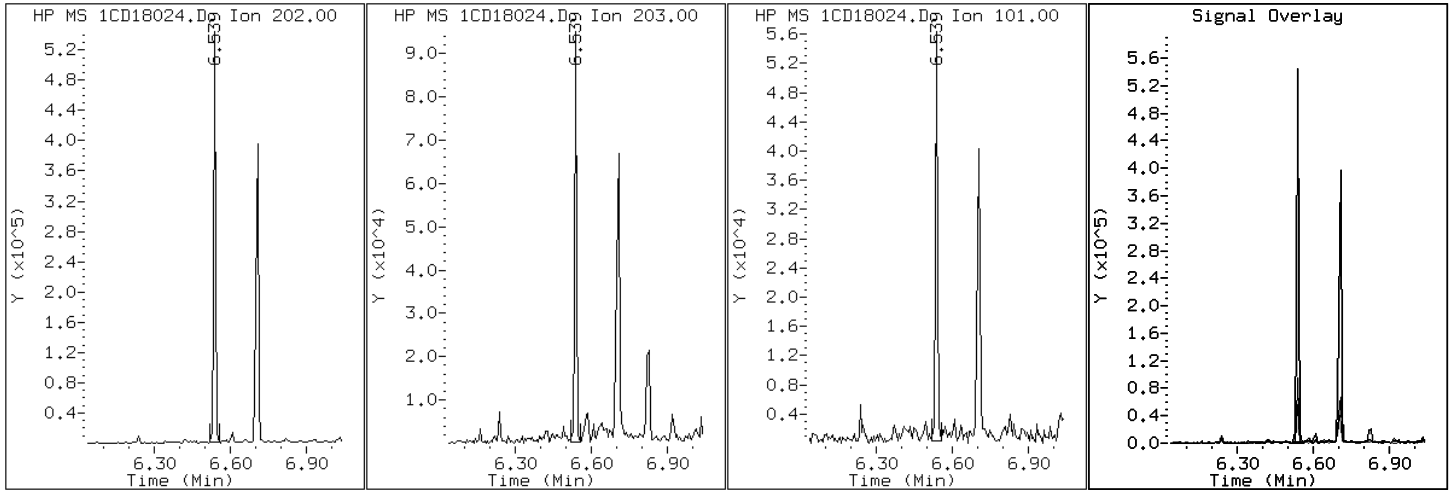
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

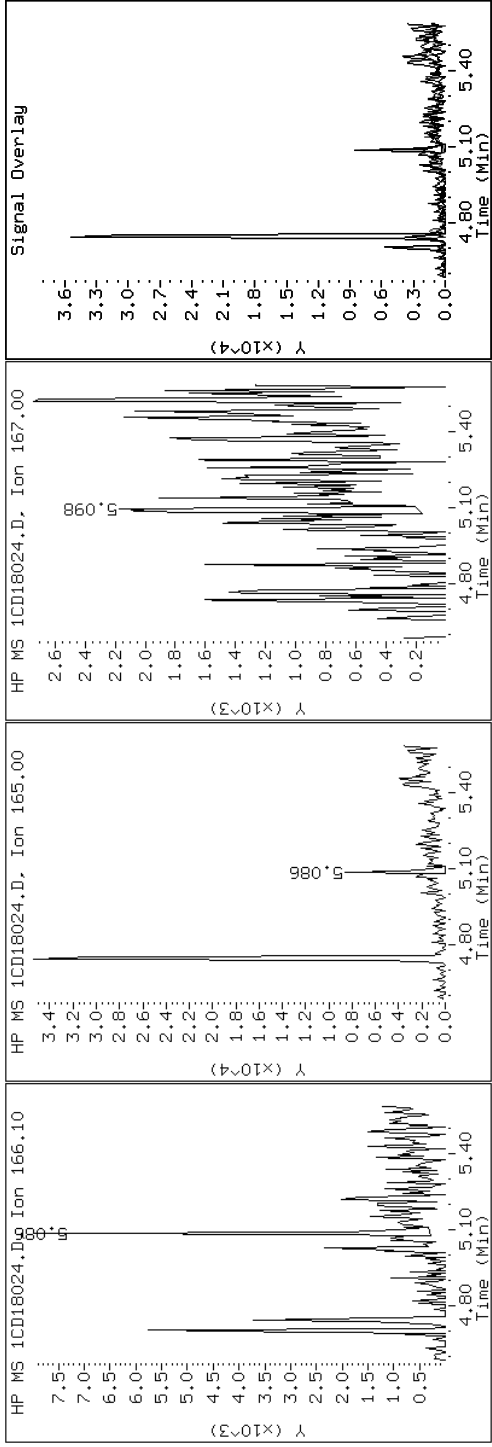
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

9 Fluorene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

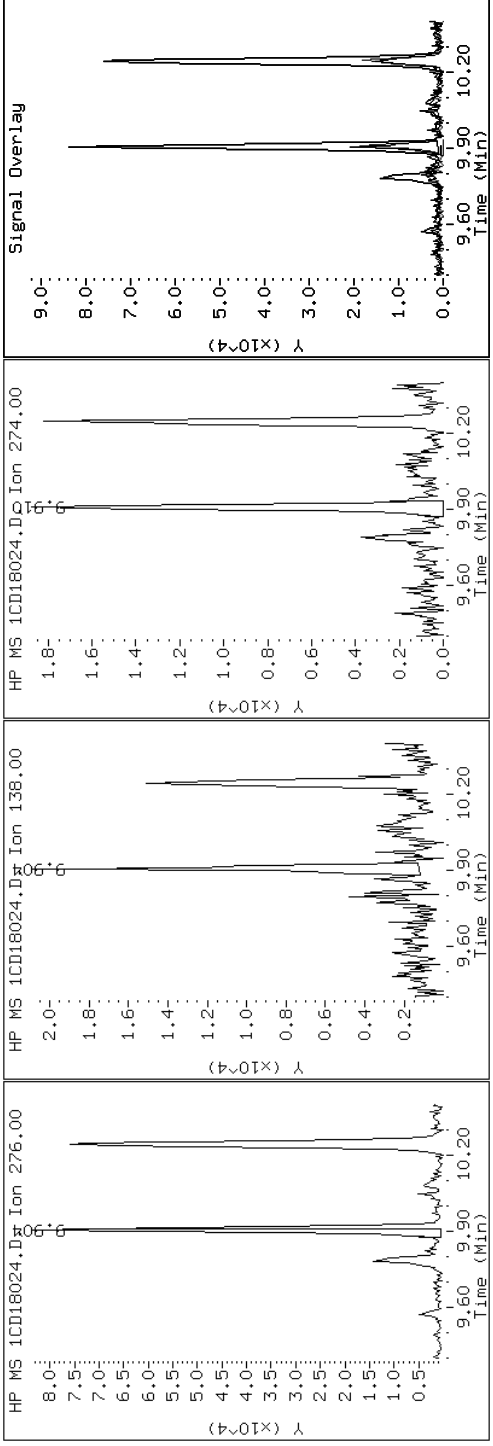
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

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



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

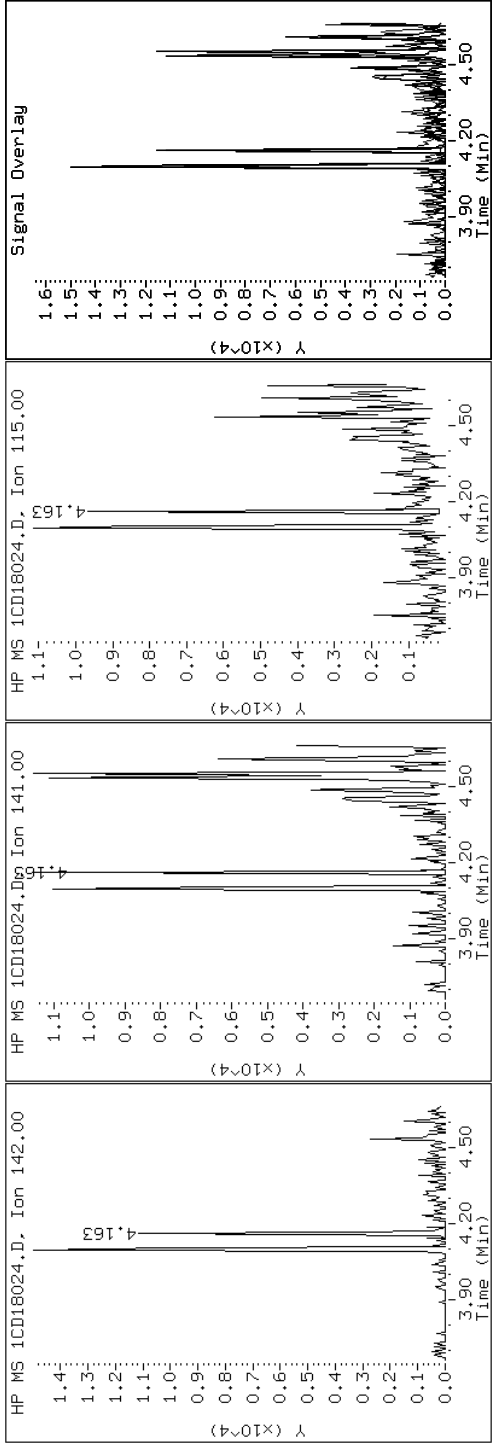
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

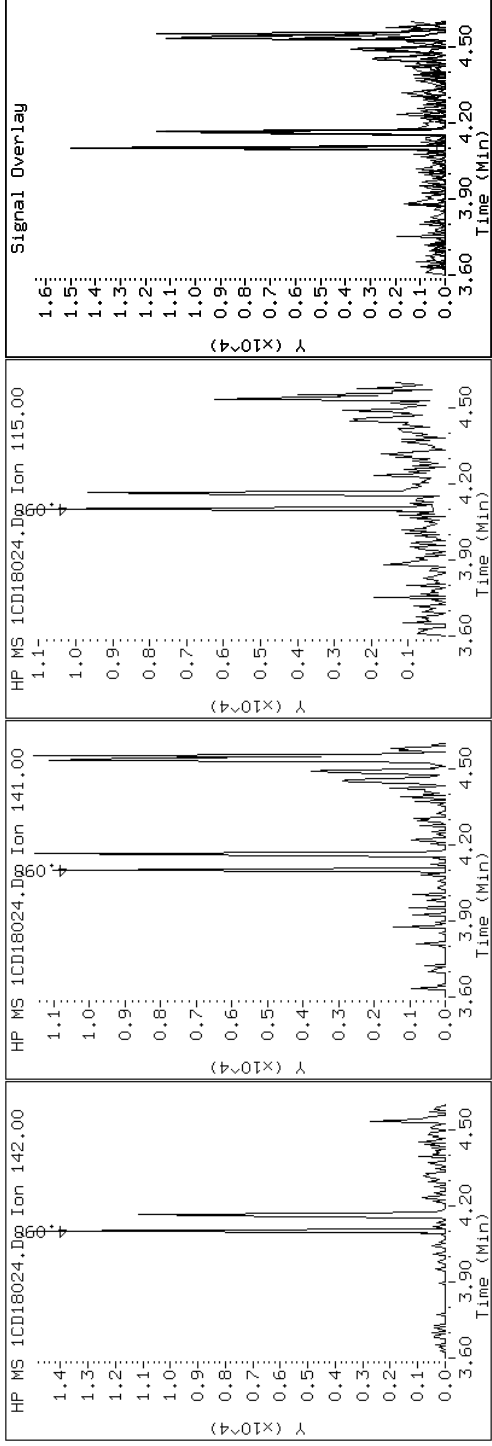
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

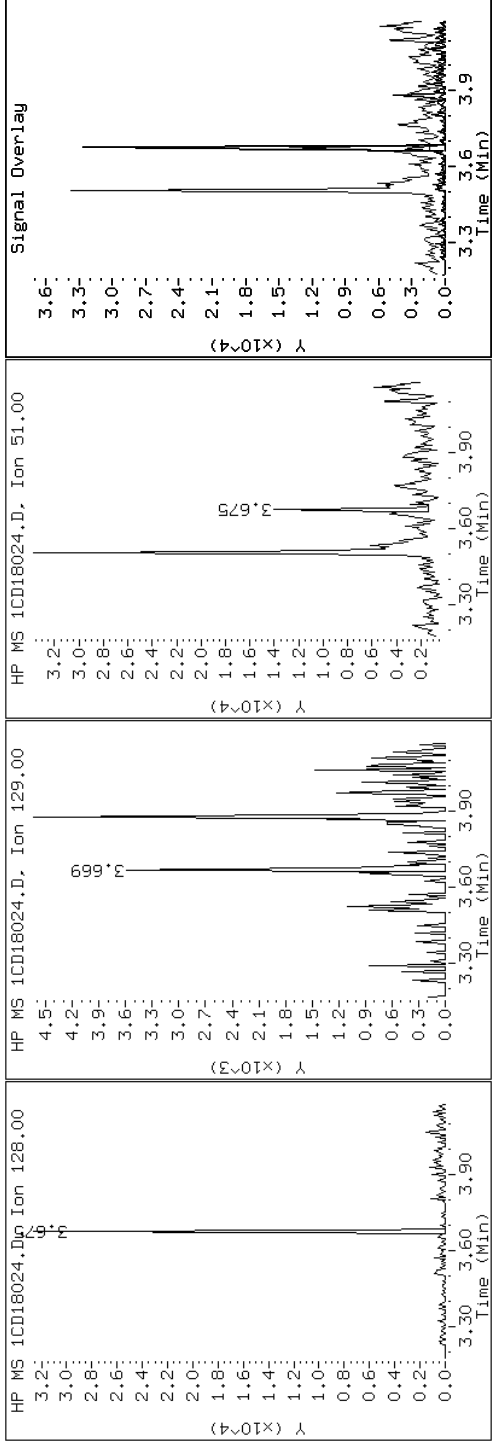
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

2 Naphthalene





Data File: 1CD18024.D

Date: 18-APR-2013 18:25

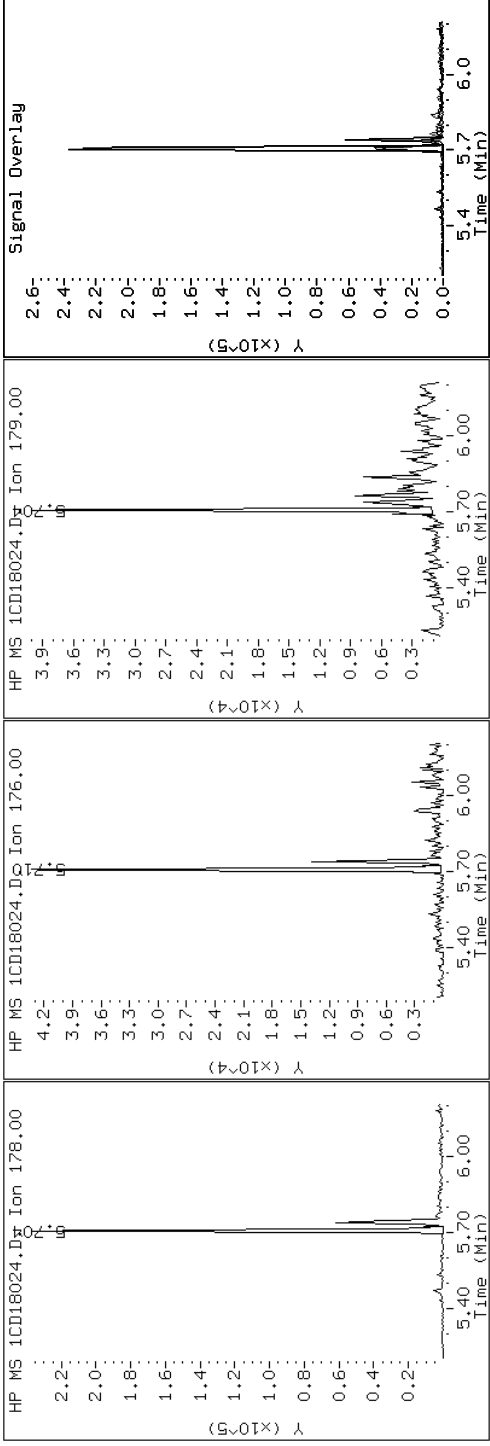
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18024.D

Date: 18-APR-2013 18:25

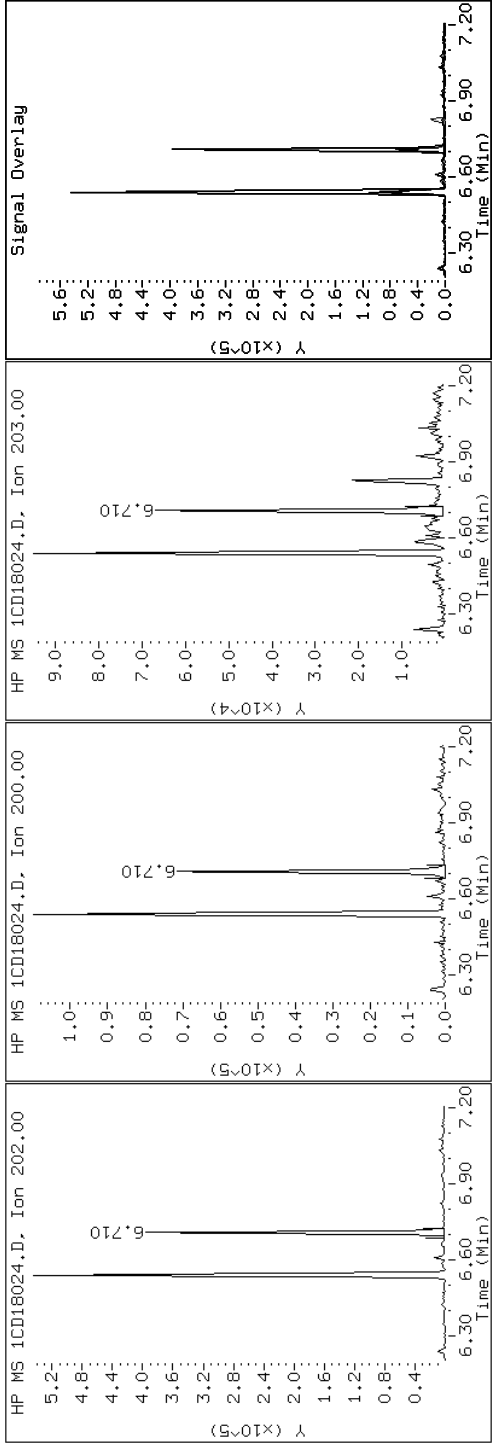
Client ID: FM0249A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-23-a

Operator: SCC

16 Pyrene

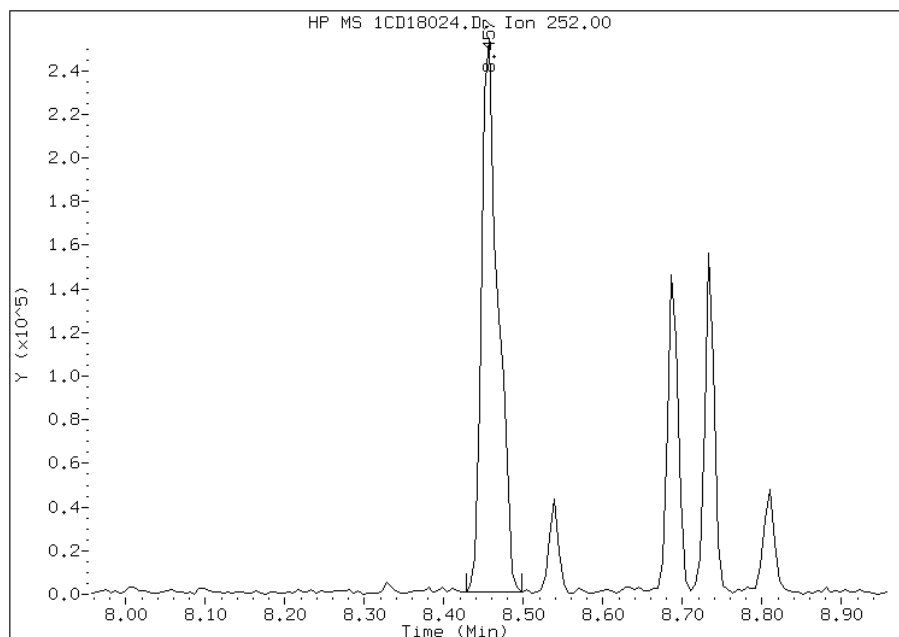


Manual Integration Report

Data File: 1CD18024.D  
Inj. Date and Time: 18-APR-2013 18:25  
Instrument ID: BSMC5973.i  
Client ID: FM0249A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

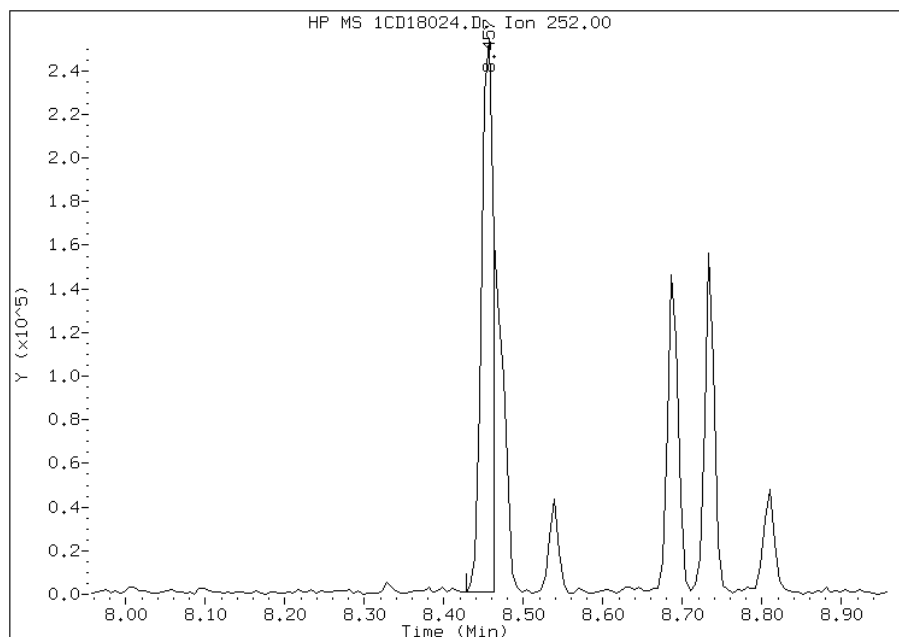
Processing Integration Results

RT: 8.46  
Response: 363965  
Amount: 40  
Conc: 3461



Manual Integration Results

RT: 8.46  
Response: 263981  
Amount: 29  
Conc: 2510



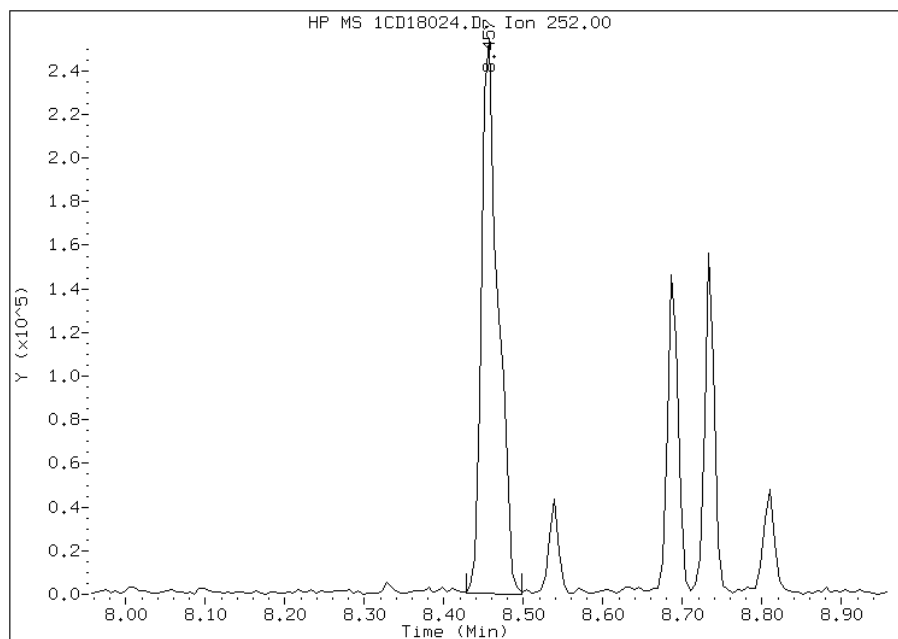
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:18  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18024.D  
Inj. Date and Time: 18-APR-2013 18:25  
Instrument ID: BSMC5973.i  
Client ID: FM0249A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

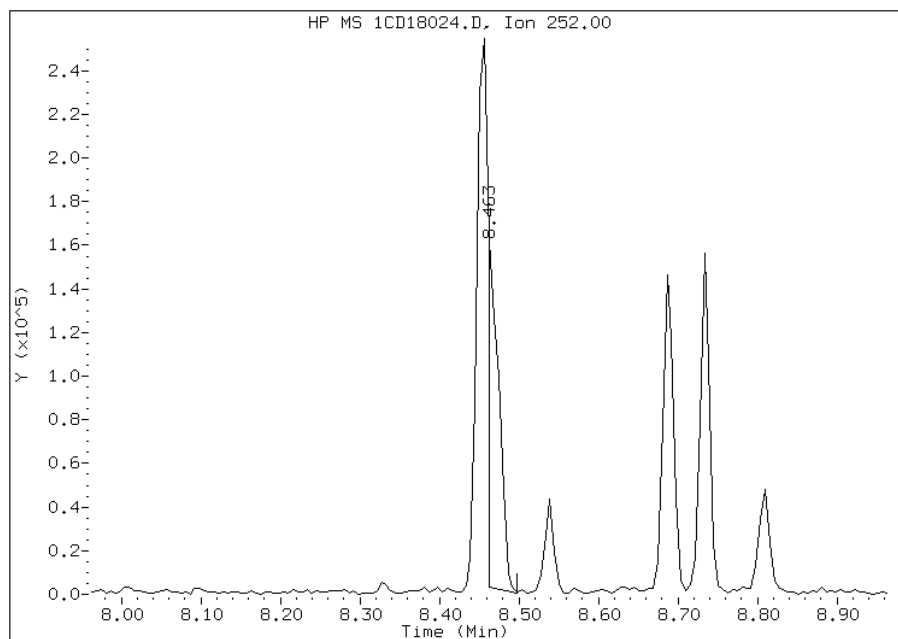
## Processing Integration Results

RT: 8.46  
Response: 367007  
Amount: 36  
Conc: 3084



## Manual Integration Results

RT: 8.46  
Response: 154687  
Amount: 15  
Conc: 1300



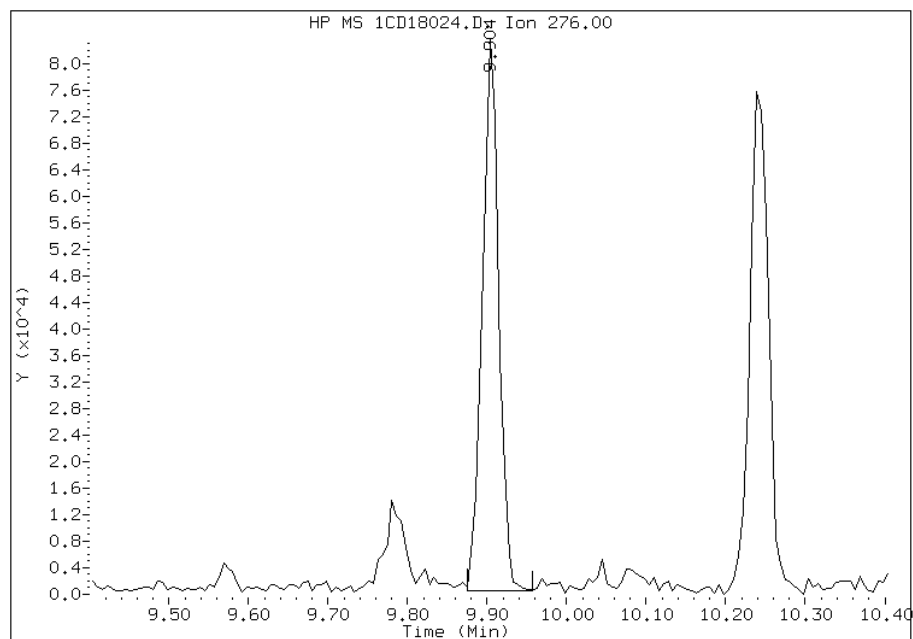
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:19  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18024.D  
Inj. Date and Time: 18-APR-2013 18:25  
Instrument ID: BSMC5973.i  
Client ID: FM0249A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

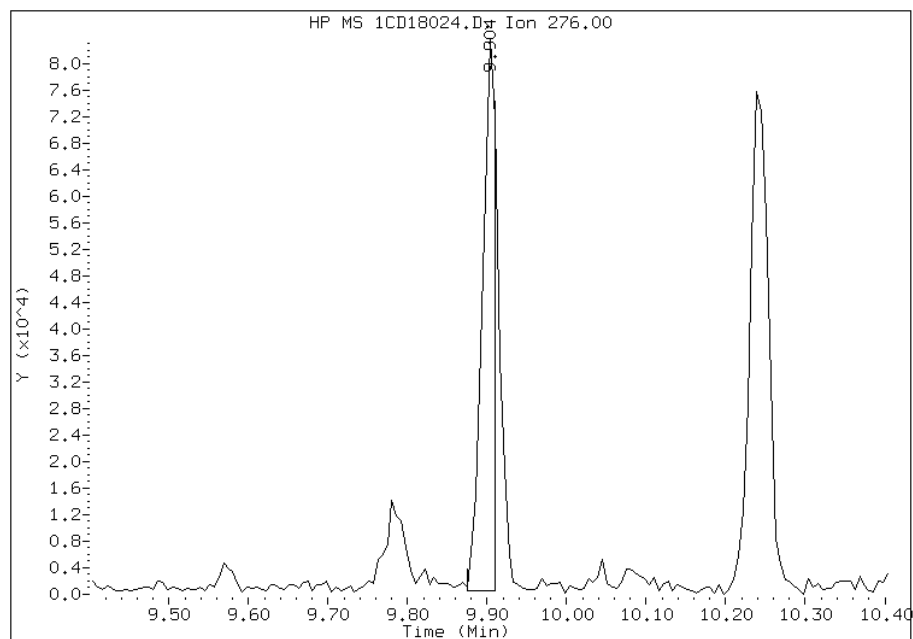
## Processing Integration Results

RT: 9.90  
Response: 117117  
Amount: 13  
Conc: 1139



## Manual Integration Results

RT: 9.90  
Response: 95429  
Amount: 11  
Conc: 939



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:19  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0252A-CS Lab Sample ID: 680-89220-24  
 Matrix: Solid Lab File ID: 1CD18025.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 08:40  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.37(g) Date Analyzed: 04/18/2013 18:44  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 31.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	51	J	57	7.1
120-12-7	Anthracene	49		12	5.9
56-55-3	Benzo[a]anthracene	270		11	5.5
50-32-8	Benzo[a]pyrene	320		15	7.4
205-99-2	Benzo[b]fluoranthene	520		17	8.6
191-24-2	Benzo[g,h,i]perylene	270		28	6.2
207-08-9	Benzo[k]fluoranthene	280		11	5.1
218-01-9	Chrysene	350		13	6.4
53-70-3	Dibenz(a,h)anthracene	140		28	5.8
206-44-0	Fluoranthene	520		28	5.7
86-73-7	Fluorene	27	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	250		28	10
90-12-0	1-Methylnaphthalene	45	J	57	6.2
91-57-6	2-Methylnaphthalene	110		57	10
91-20-3	Naphthalene	150		57	6.2
85-01-8	Phenanthrene	250		11	5.5
129-00-0	Pyrene	520		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18025.D  
 Lab Smp Id: 680-89220-A-24-A Client Smp ID: FM0252A-CS  
 Inj Date : 18-APR-2013 18:44  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-24-a  
 Misc Info : 680-89220-A-24-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 25  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	30.980	% 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		3.663	3.663	(1.000)	267982	40.0000		
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	187524	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	340840	40.0000		
\$ 14 o-Terphenyl	230		5.939	5.945	(1.043)	23090	4.78060	450.6411	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	357842	40.0000		
* 23 Perylene-d12	264		8.780	8.780	(1.000)	319041	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	11446	1.58007	148.9446	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	4296	1.15945	109.2951	
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	2215	0.47869	45.1238	
5 Acenaphthylene	152		4.663	4.663	(0.983)	4298	0.54090	59.9871	
9 Fluorene	166		5.086	5.086	(1.072)	1770	0.29045	27.3794	
11 Phenanthrene	178		5.704	5.704	(1.002)	26294	2.63341	248.2369	
12 Anthracene	178		5.739	5.739	(1.008)	5147	0.52016	49.0329	
13 Carbazole	167		5.851	5.851	(1.028)	5009	0.54353	51.2356	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
15 Fluoranthene	202	6.539	6.539	(1.149)	61524	5.56430	524.5155	
16 Pyrene	202	6.704	6.704	(0.879)	55972	5.49811	518.2762	
17 Benzo(a)anthracene	228	7.615	7.615	(0.998)	29143	2.88001	271.4824	
19 Chrysene	228	7.645	7.645	(1.002)	37349	3.73106	351.7066	
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	44853	5.56616	524.6909(M)	
21 Benzo(k)fluoranthene	252	8.456	8.468	(0.963)	26609	2.91821	275.0839(MH)	
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	28393	3.40869	321.3181	
24 Indeno(1,2,3-cd)pyrene	276	9.897	9.898	(1.127)	17036	2.69806	254.3309(M)	
25 Dibenzo(a,h)anthracene	278	9.903	9.909	(1.128)	8749	1.51793	143.0873	
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	22125	2.83386	267.1324	

QC Flag Legend

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



Data File: 1CD18025.D

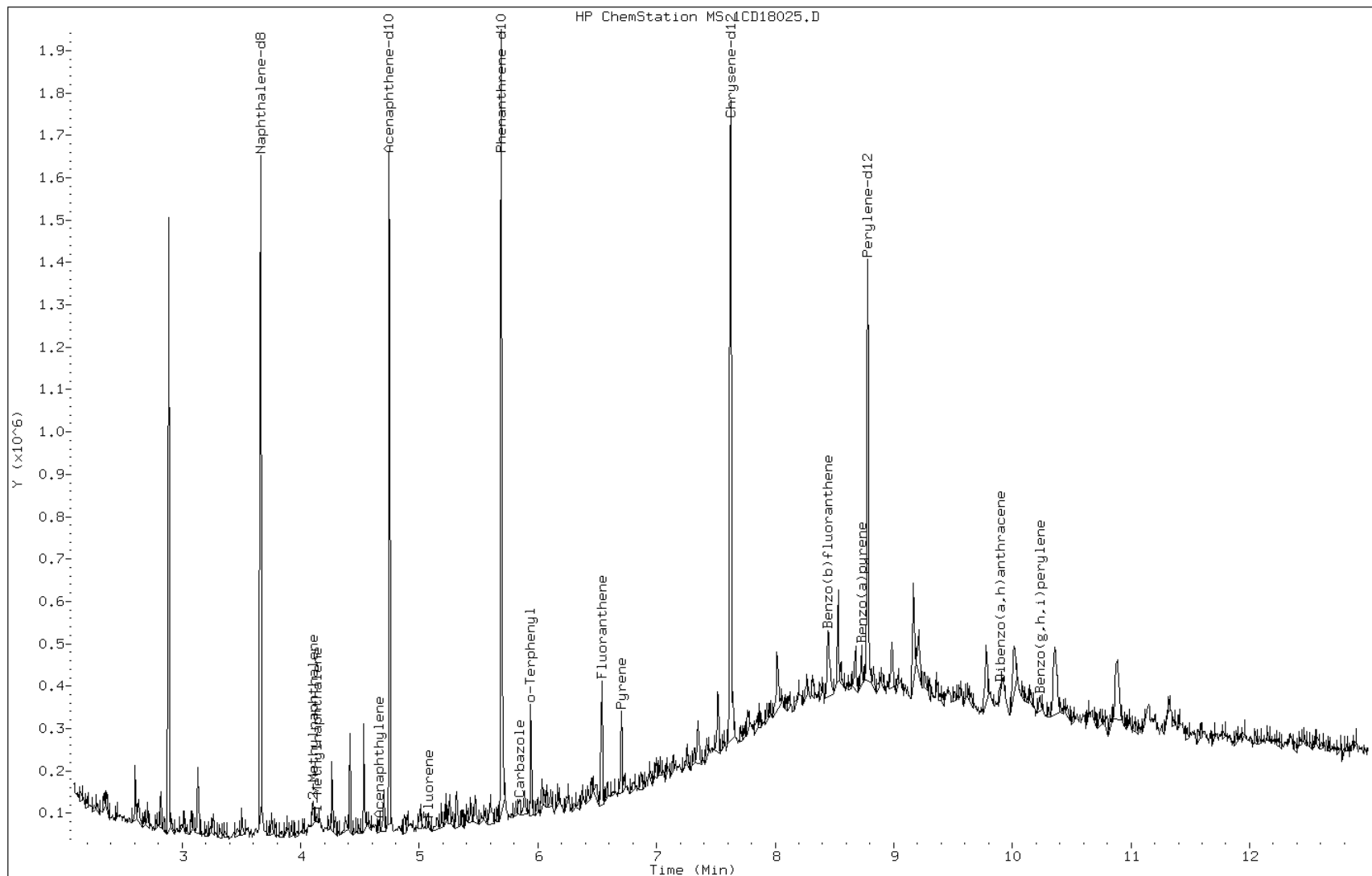
Date: 18-APR-2013 18:44

Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

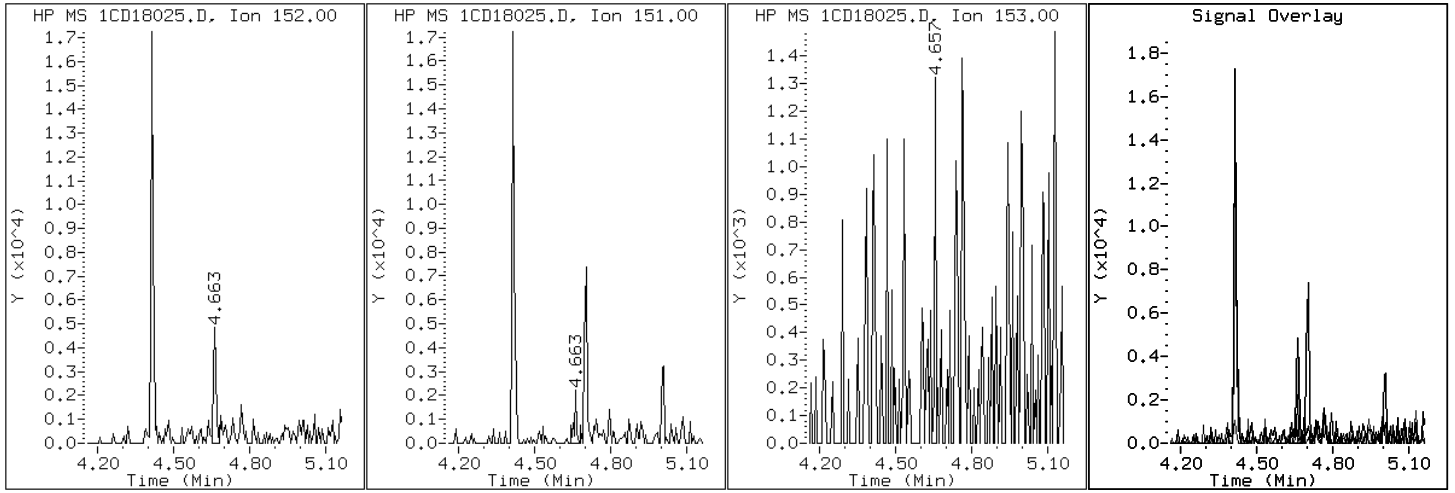
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

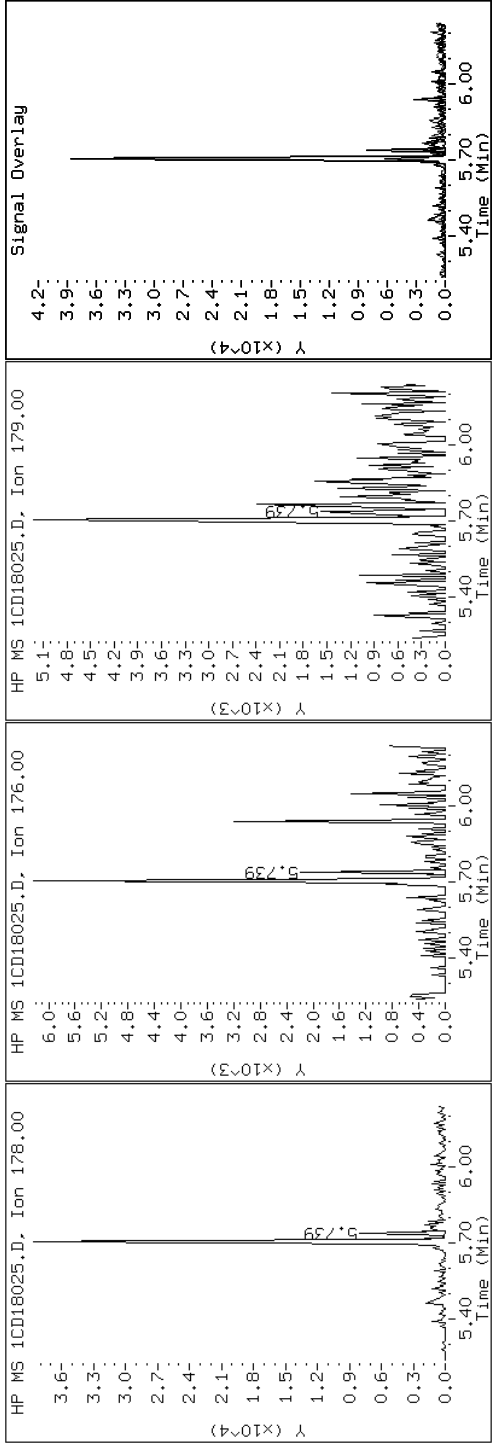
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

12 Anthracene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

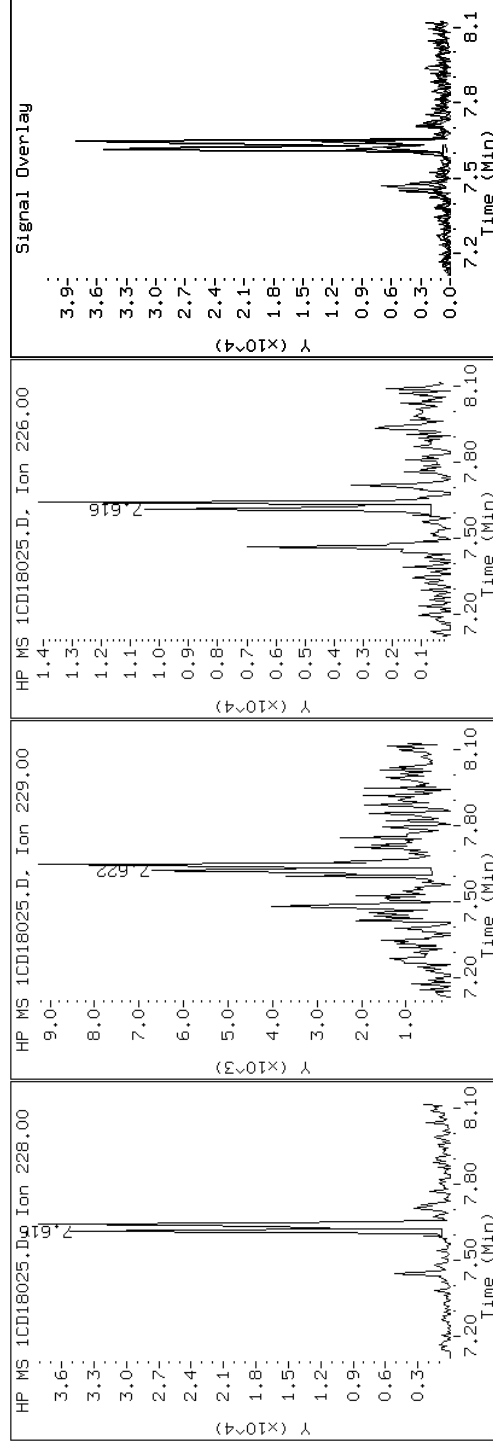
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

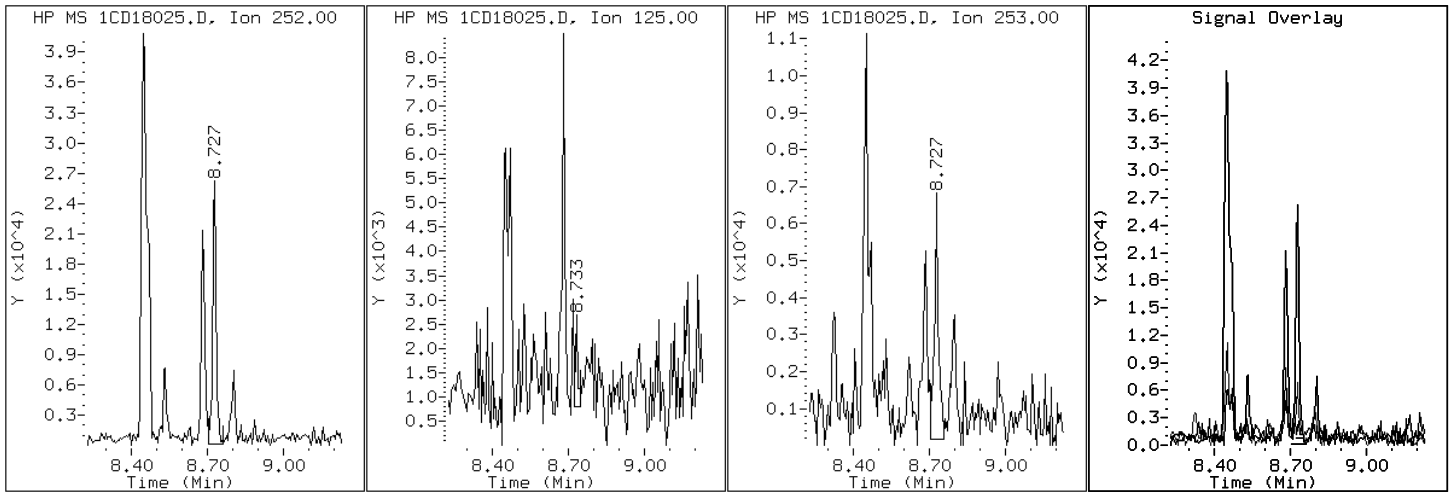
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

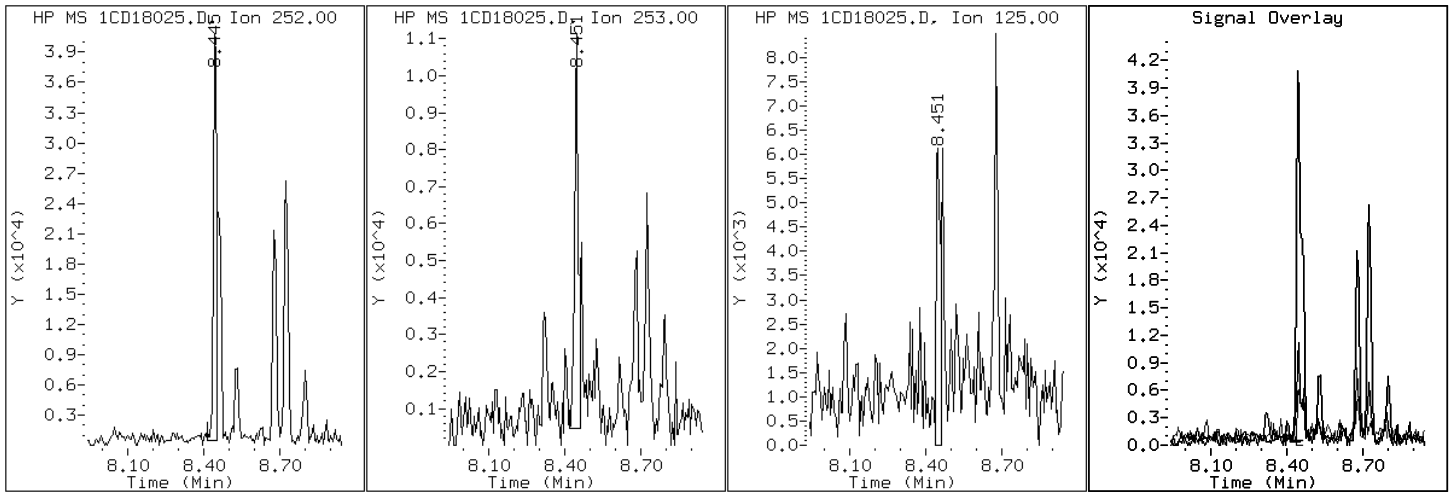
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

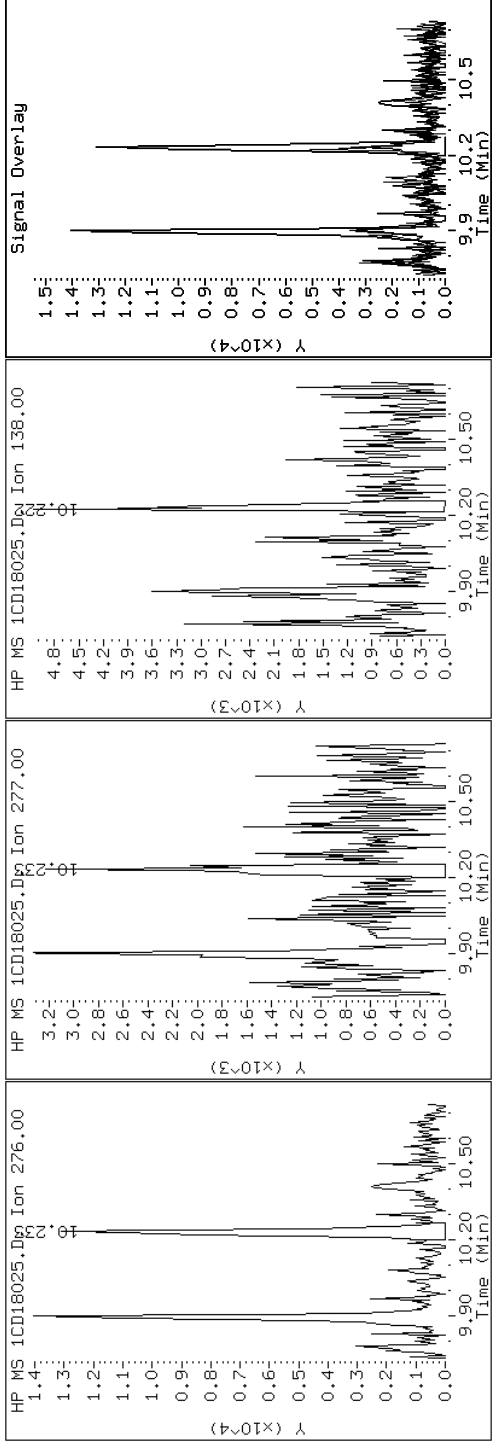
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

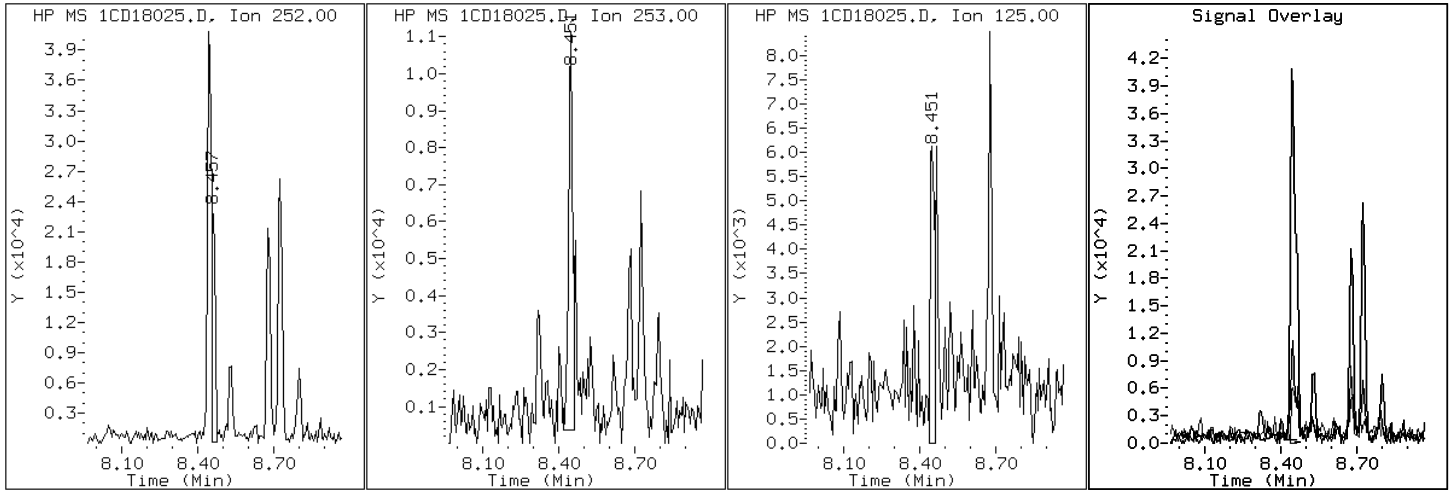
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CD18025.D

Date: 18-APR-2013 18:44

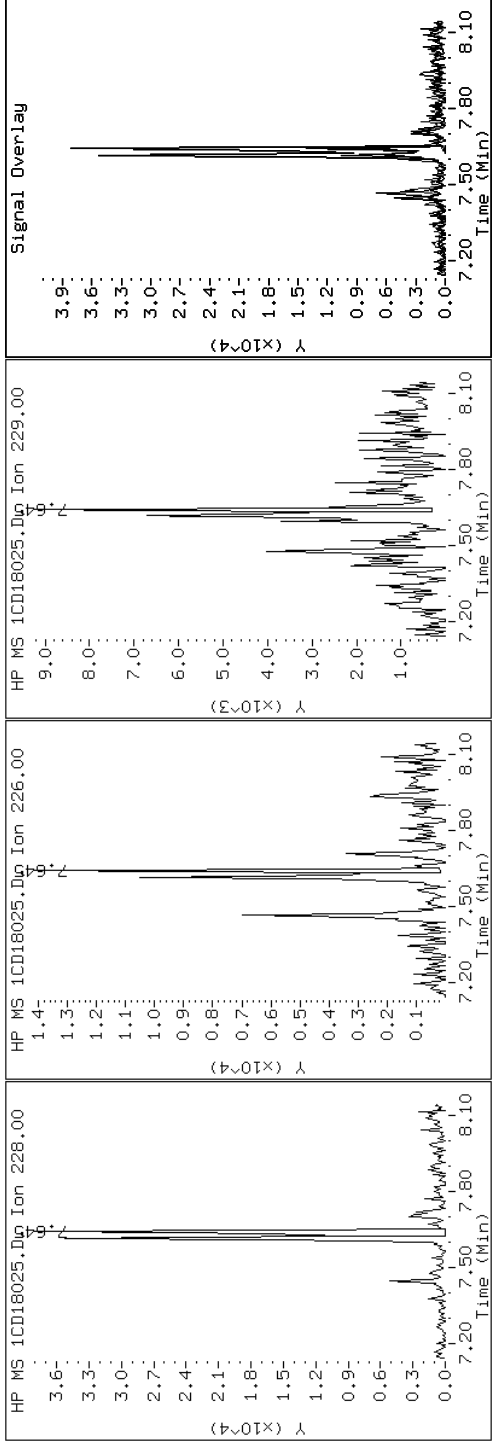
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

19 Chrysene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

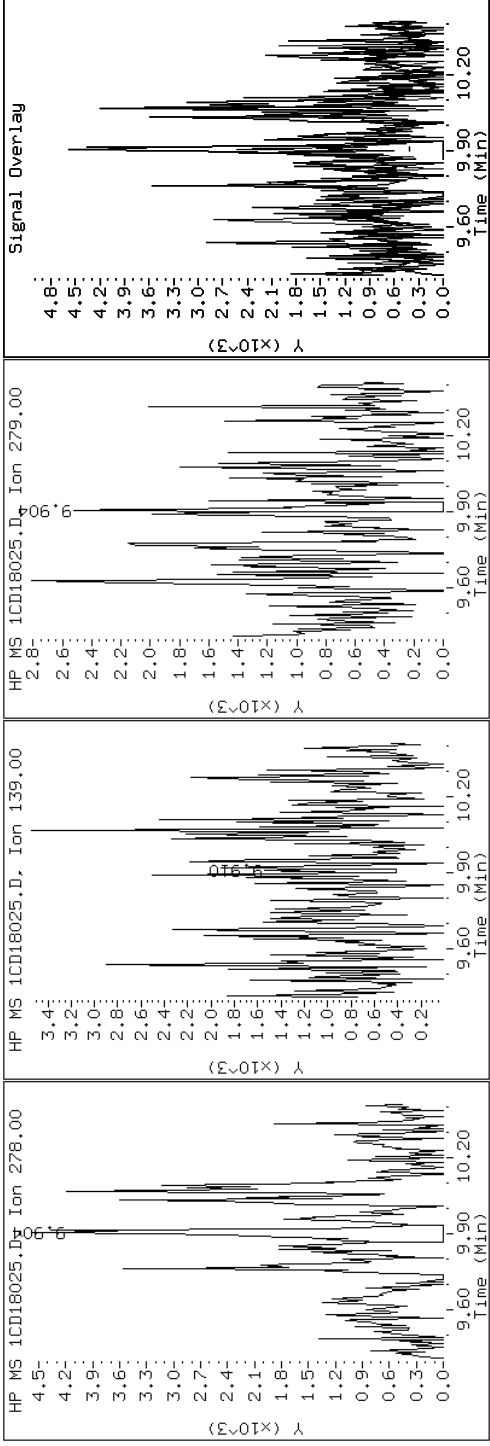
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

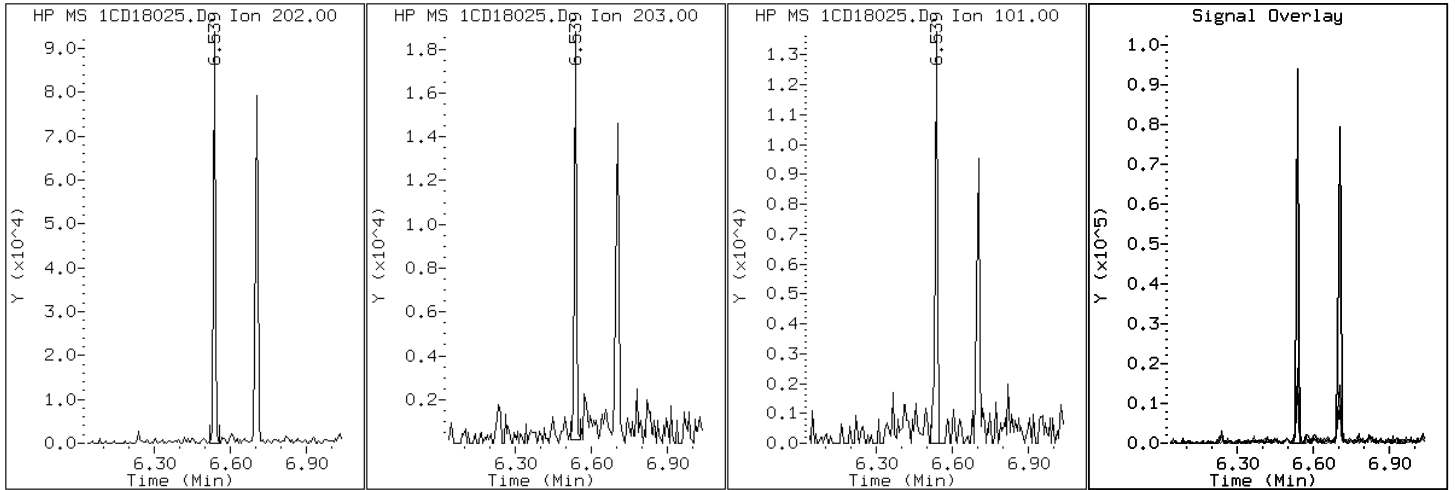
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

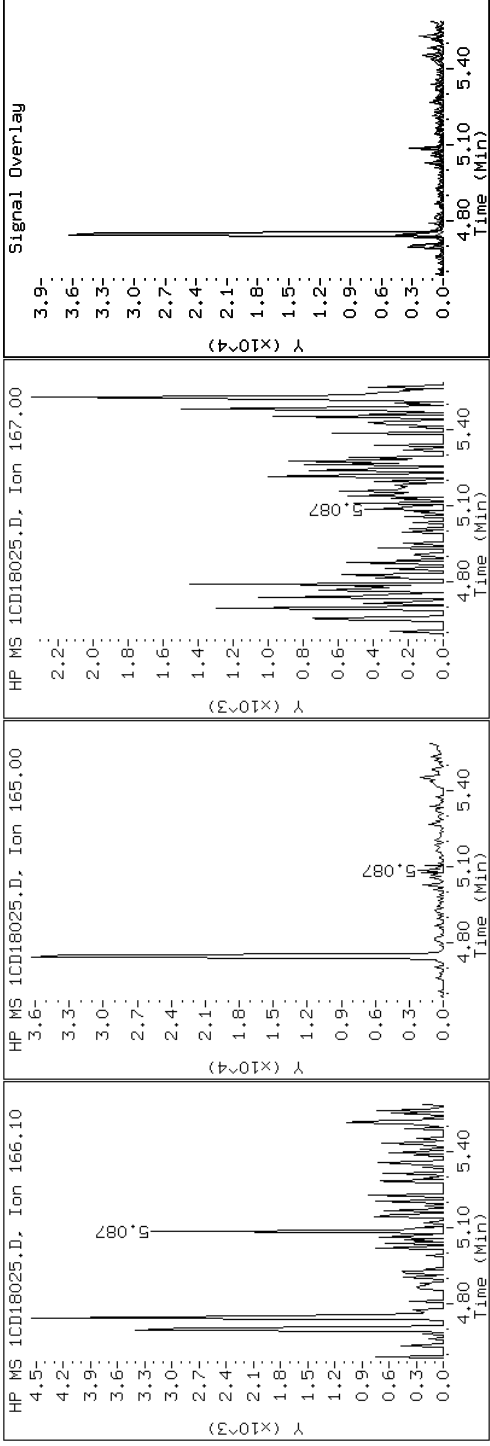
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

9 Fluorene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

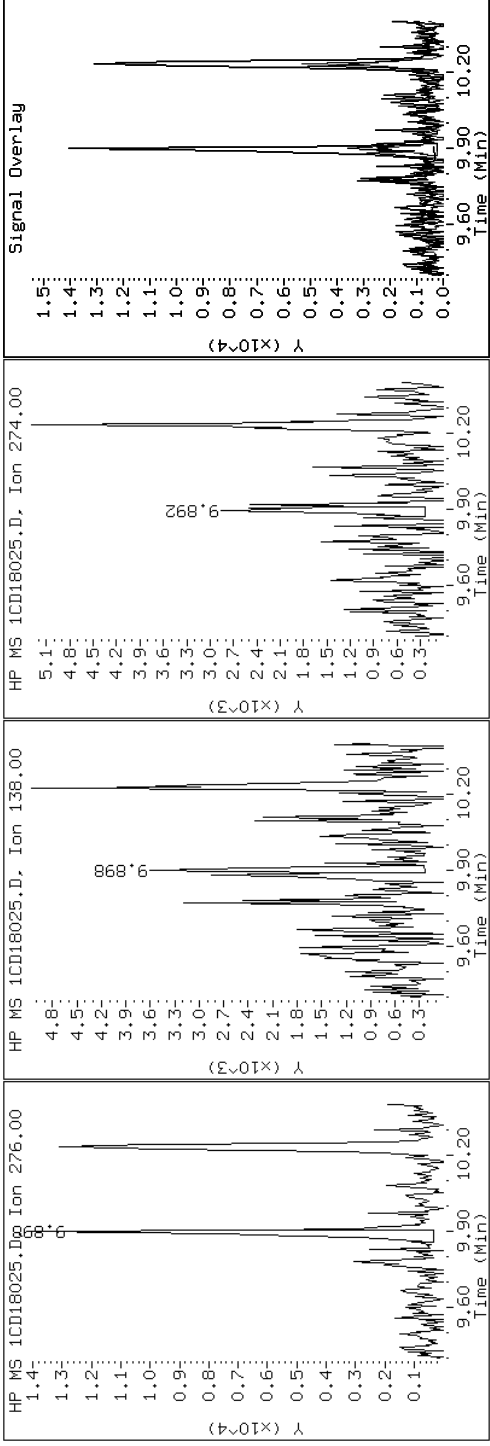
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

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



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

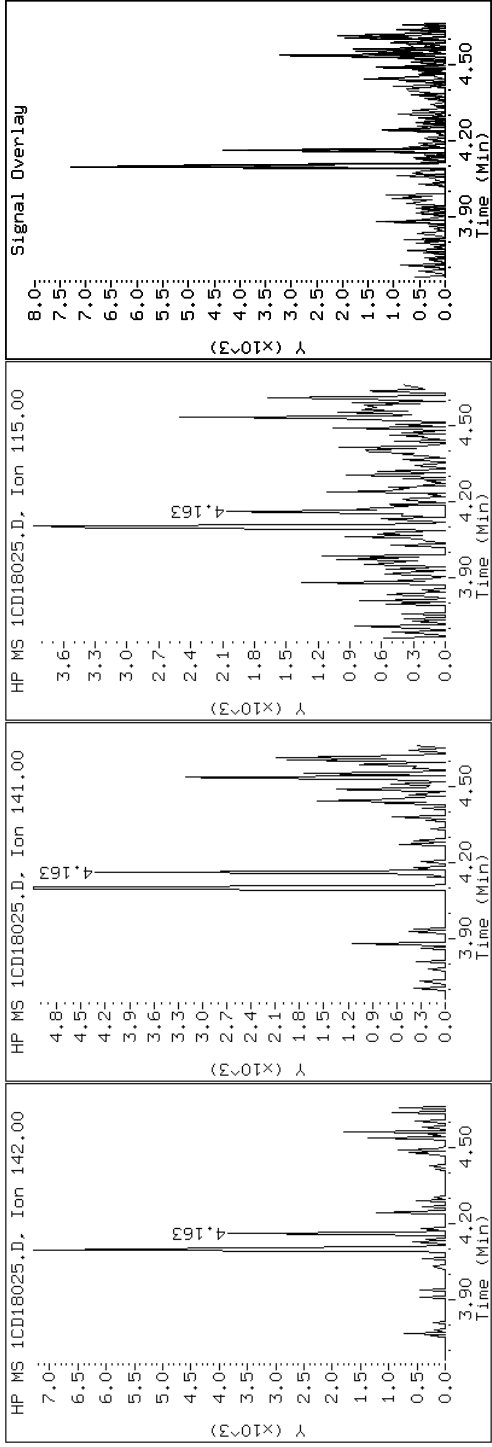
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

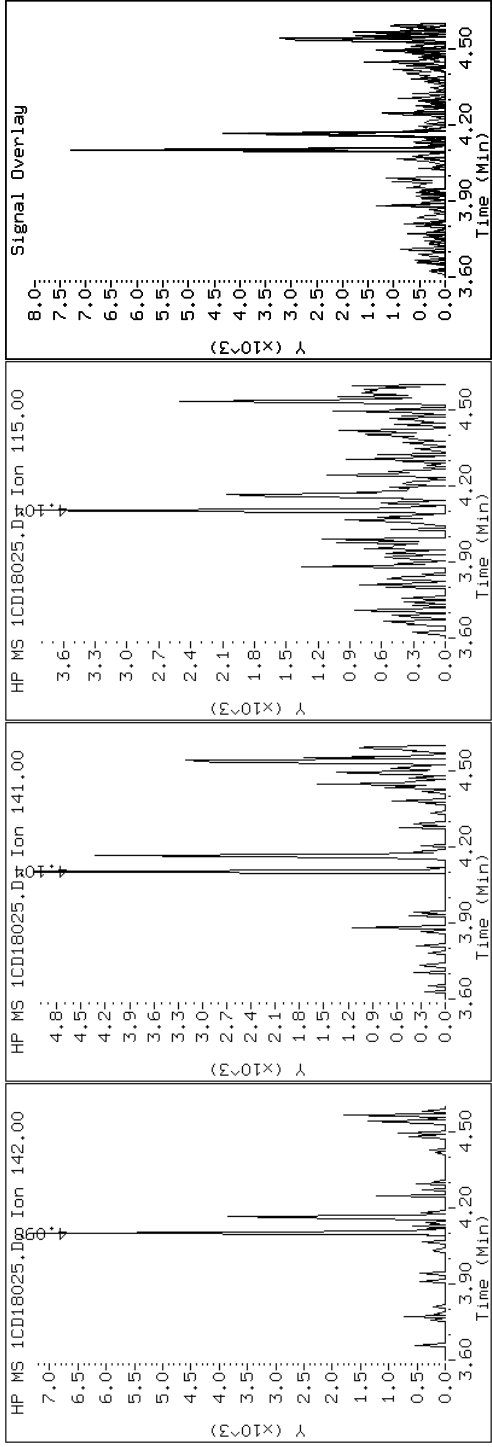
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

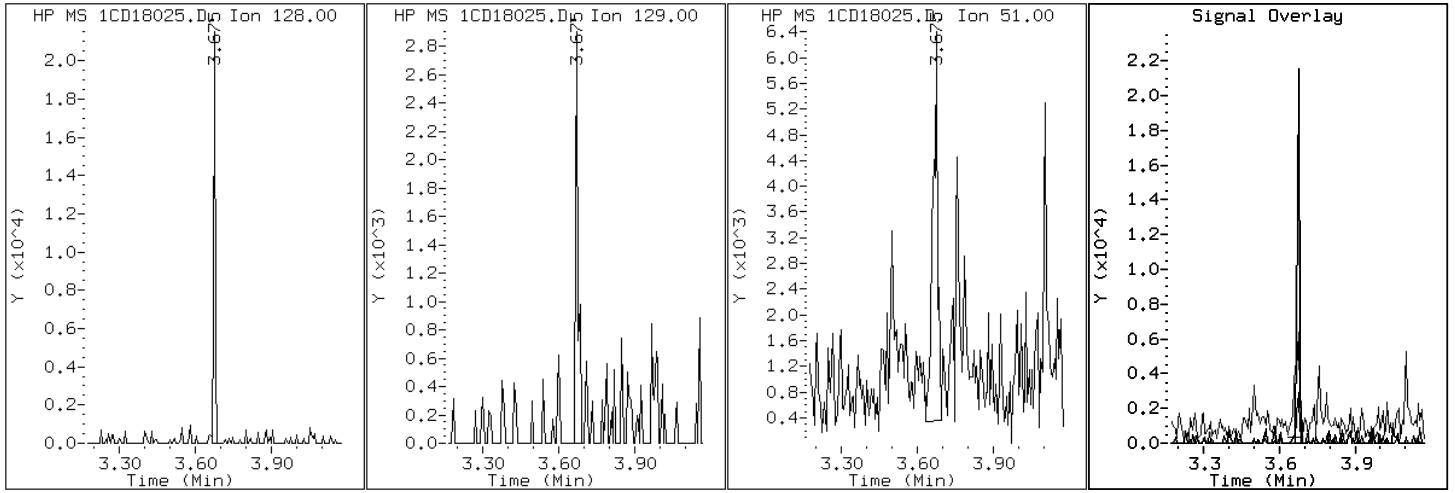
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

2 Naphthalene





Data File: 1CD18025.D

Date: 18-APR-2013 18:44

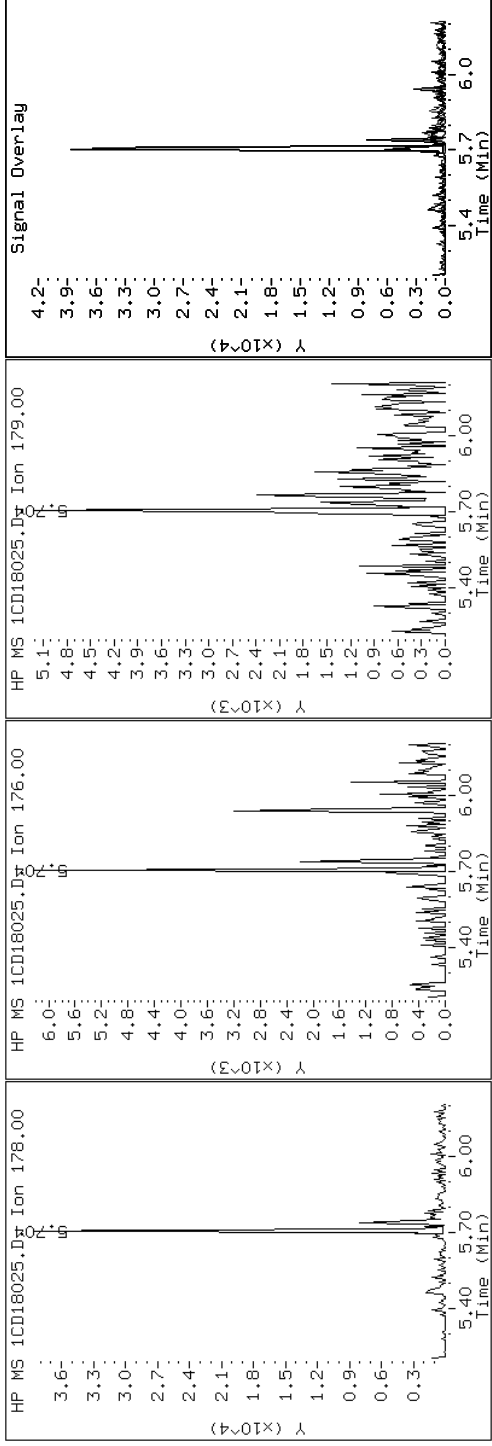
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18025.D

Date: 18-APR-2013 18:44

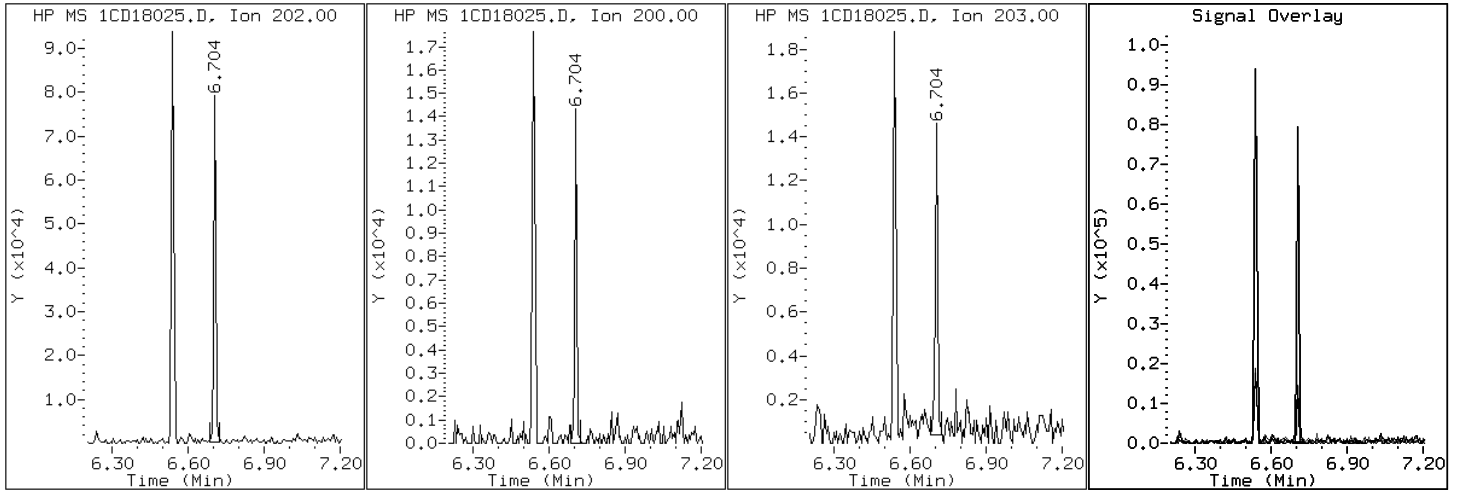
Client ID: FM0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-24-a

Operator: SCC

16 Pyrene

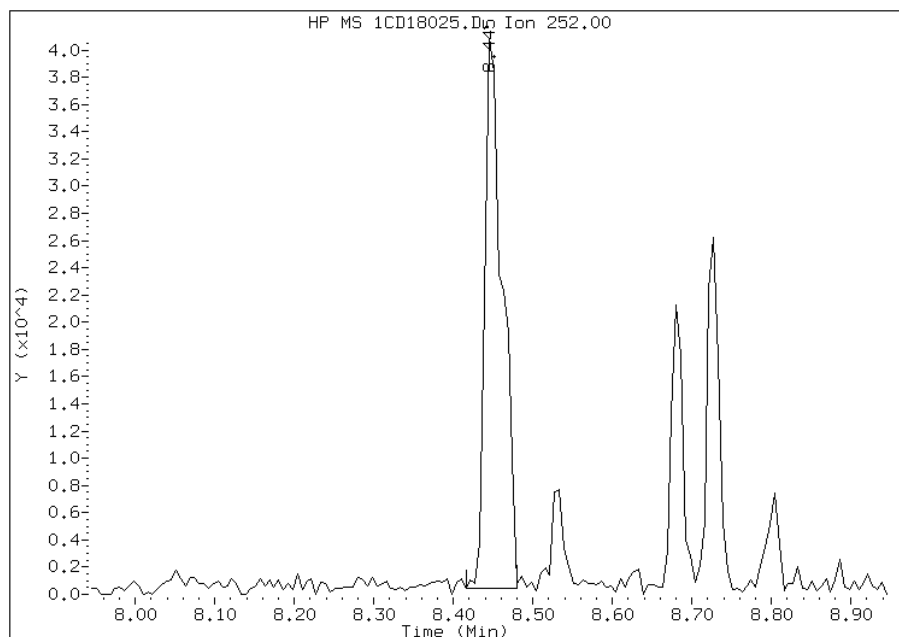


# Manual Integration Report

Data File: 1CD18025.D  
Inj. Date and Time: 18-APR-2013 18:44  
Instrument ID: BSMC5973.i  
Client ID: FM0252A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

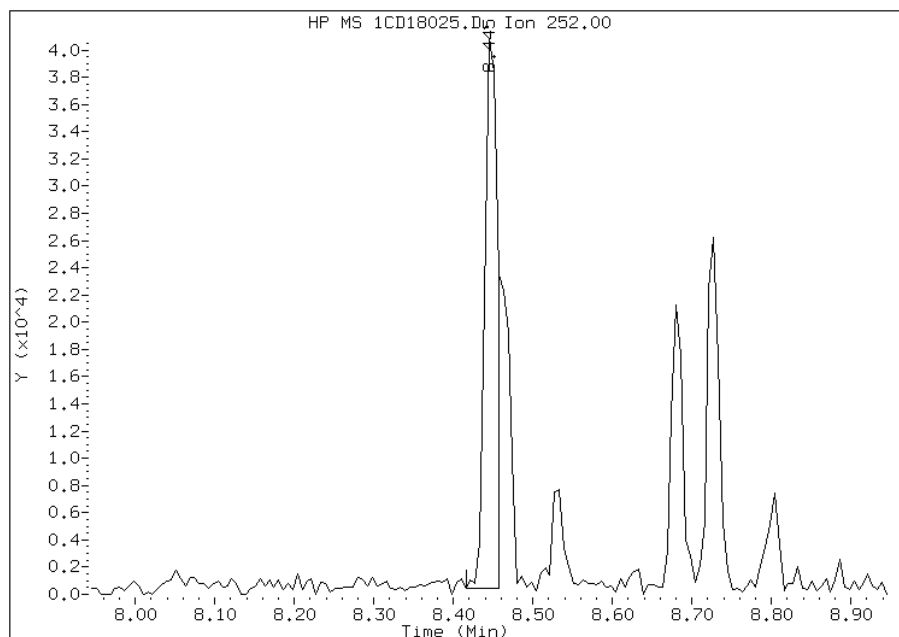
## Processing Integration Results

RT: 8.45  
Response: 62738  
Amount: 8  
Conc: 734



## Manual Integration Results

RT: 8.45  
Response: 44853  
Amount: 6  
Conc: 525



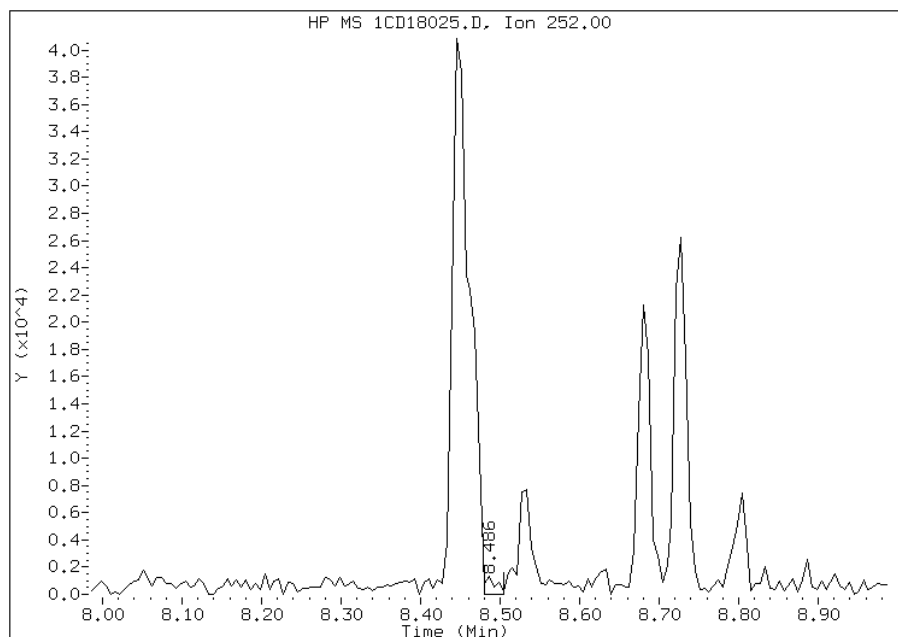
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:20  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18025.D  
Inj. Date and Time: 18-APR-2013 18:44  
Instrument ID: BSMC5973.i  
Client ID: FM0252A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

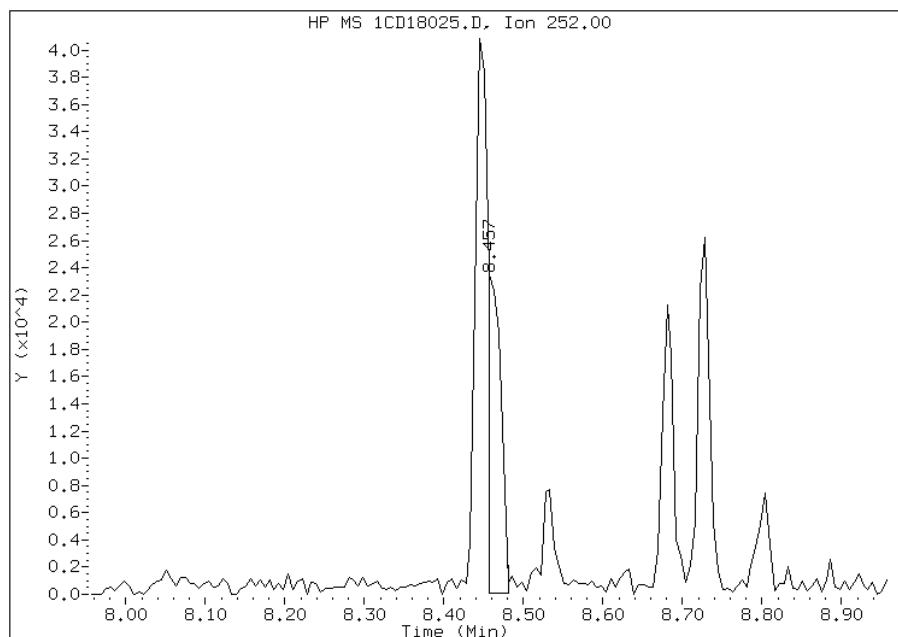
## Processing Integration Results

RT: 8.49  
Response: 1338  
Amount: 0  
Conc: 14



## Manual Integration Results

RT: 8.46  
Response: 26609  
Amount: 3  
Conc: 275



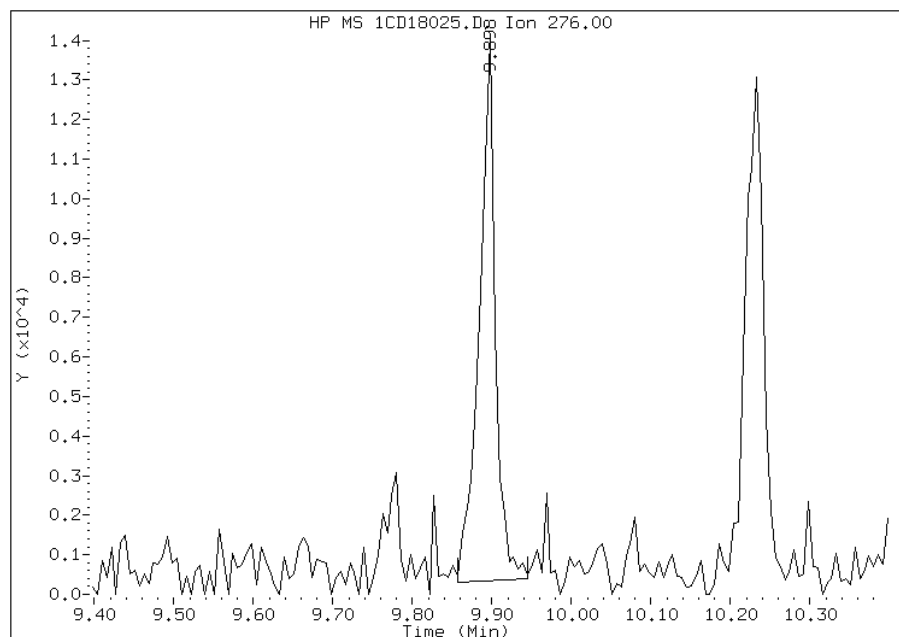
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:20  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18025.D  
Inj. Date and Time: 18-APR-2013 18:44  
Instrument ID: BSMC5973.i  
Client ID: FM0252A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

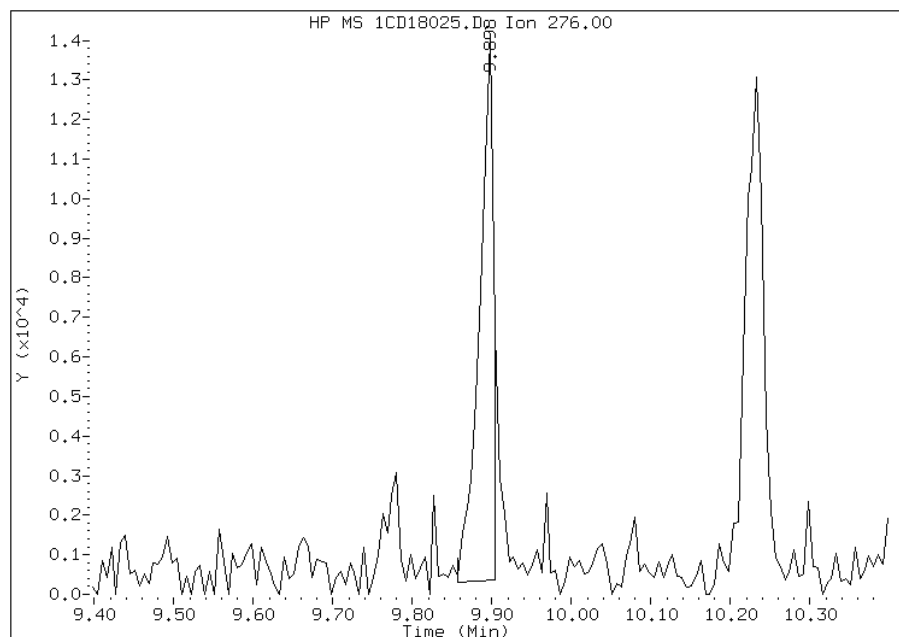
## Processing Integration Results

RT: 9.90  
Response: 19167  
Amount: 3  
Conc: 279



## Manual Integration Results

RT: 9.90  
Response: 17036  
Amount: 3  
Conc: 254



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:20  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0252B-CS Lab Sample ID: 680-89220-25  
 Matrix: Solid Lab File ID: 1CD18026.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 08:50  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.15(g) Date Analyzed: 04/18/2013 19:02  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 24.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	34	J	130	26
208-96-8	Acenaphthylene	74		53	6.6
120-12-7	Anthracene	110		11	5.5
56-55-3	Benzo[a]anthracene	580		11	5.1
50-32-8	Benzo[a]pyrene	480		14	6.9
205-99-2	Benzo[b]fluoranthene	850		16	8.0
191-24-2	Benzo[g,h,i]perylene	400		26	5.8
207-08-9	Benzo[k]fluoranthene	350		11	4.7
218-01-9	Chrysene	570		12	5.9
53-70-3	Dibenz(a,h)anthracene	150		26	5.4
206-44-0	Fluoranthene	840		26	5.3
86-73-7	Fluorene	25	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	360		26	9.4
90-12-0	1-Methylnaphthalene	210		53	5.8
91-57-6	2-Methylnaphthalene	250		53	9.4
91-20-3	Naphthalene	160		53	5.8
85-01-8	Phenanthrene	560		11	5.1
129-00-0	Pyrene	730		26	4.9

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18026.D  
 Lab Smp Id: 680-89220-A-25-A Client Smp ID: FM0252B-CS  
 Inj Date : 18-APR-2013 19:02  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-25-a  
 Misc Info : 680-89220-A-25-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	24.887	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	276254	40.0000	
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	187793	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	321103	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	41170	8.43226	740.9956
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	354315	40.0000	
* 23 Perylene-d12	264		8.786	8.780	(1.000)	323913	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	13676	1.83138	160.9351
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	12630	2.80161	246.1950
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	11624	2.43690	214.1453
5 Acenaphthylene	152		4.663	4.663	(0.983)	6697	0.84160	73.9564
7 Acenaphthene	154		4.769	4.769	(1.005)	1832	0.38202	33.5707
9 Fluorene	166		5.086	5.086	(1.072)	1752	0.28709	25.2282(Q)
11 Phenanthrene	178		5.710	5.704	(1.003)	59923	6.36704	559.5120
12 Anthracene	178		5.739	5.739	(1.008)	11918	1.27849	112.3485

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851	(1.028)	8214	0.94609	83.1391
15 Fluoranthene	202	6.539	6.539	(1.149)	99281	9.53099	837.5478
16 Pyrene	202	6.704	6.704	(0.879)	83173	8.25138	725.1003
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	66302	6.61741	581.5129
19 Chrysene	228	7.645	7.645	(1.002)	63985	6.45555	567.2899
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	79456	9.71200	853.4545(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	36649	3.95885	347.8888(MH)
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	46087	5.44970	478.8990
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.898	(1.127)	29004	4.09156	359.5511(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.128)	10652	1.73126	152.1364
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	36310	4.58078	402.5420

QC Flag Legend

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



Data File: 1CD18026.D

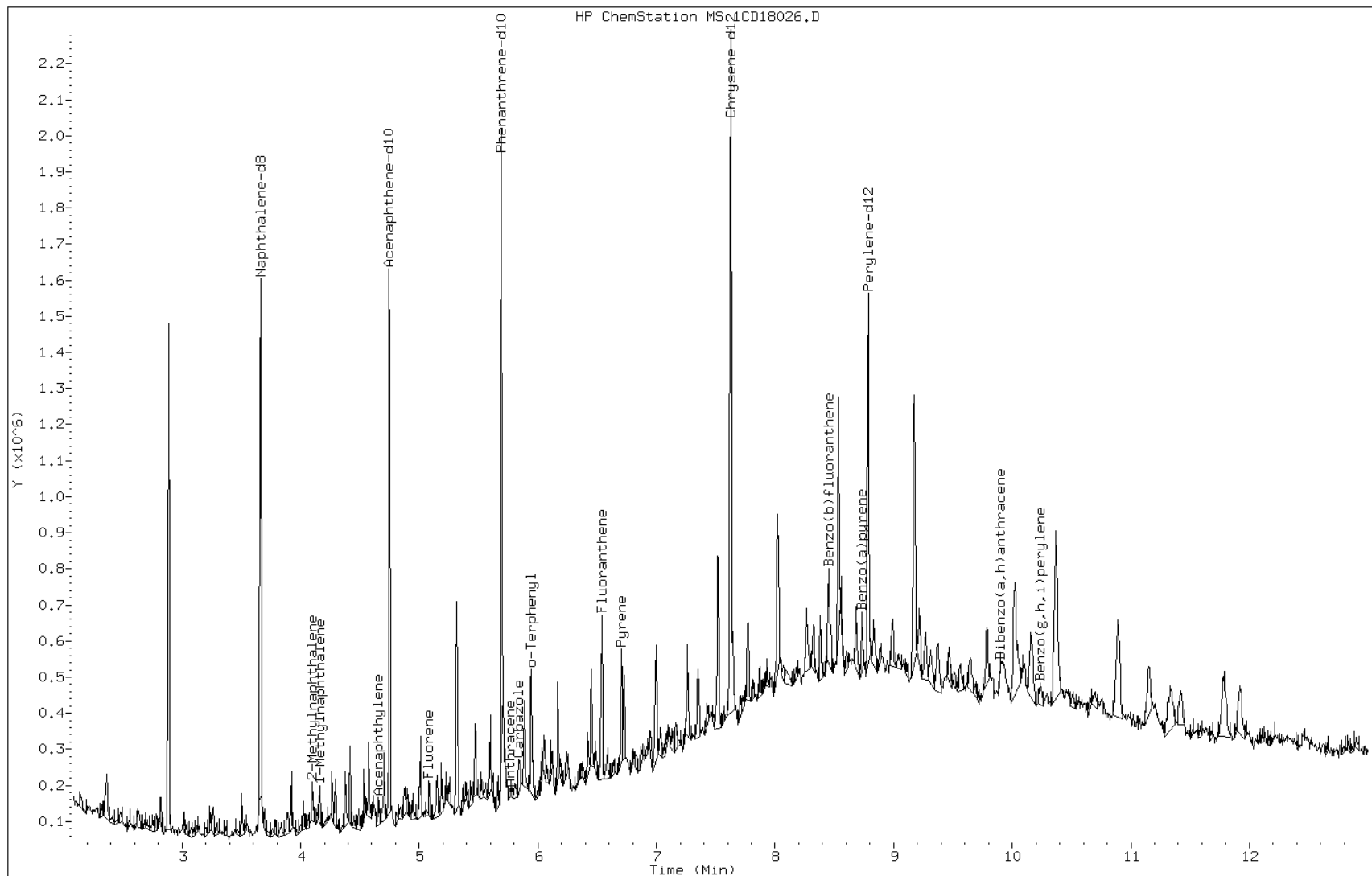
Date: 18-APR-2013 19:02

Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

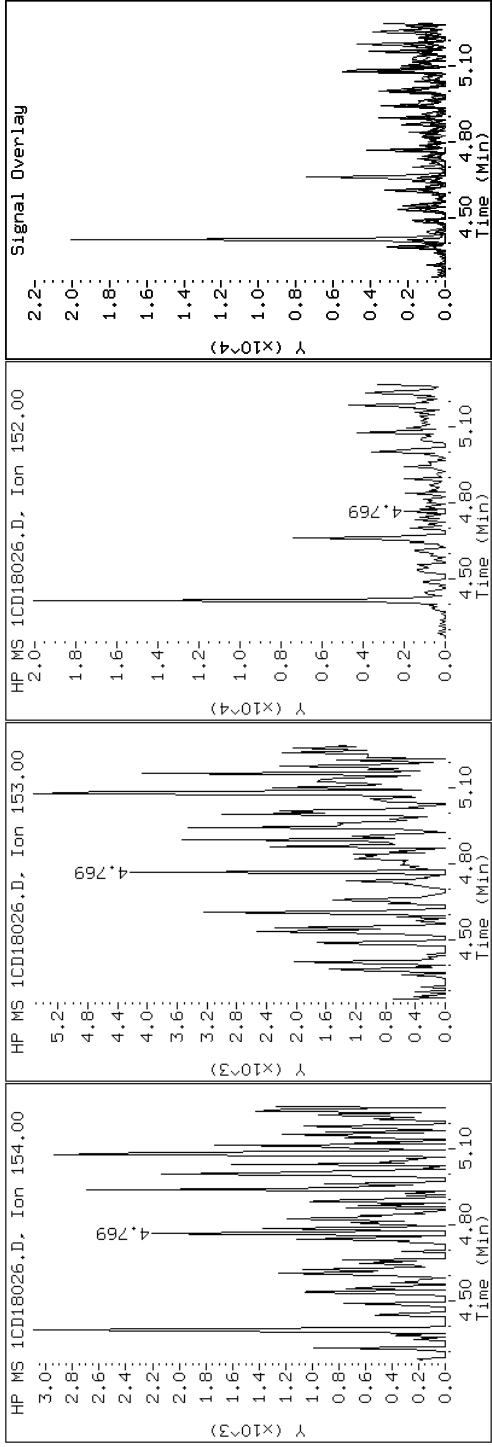
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

7 Acenaphthene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

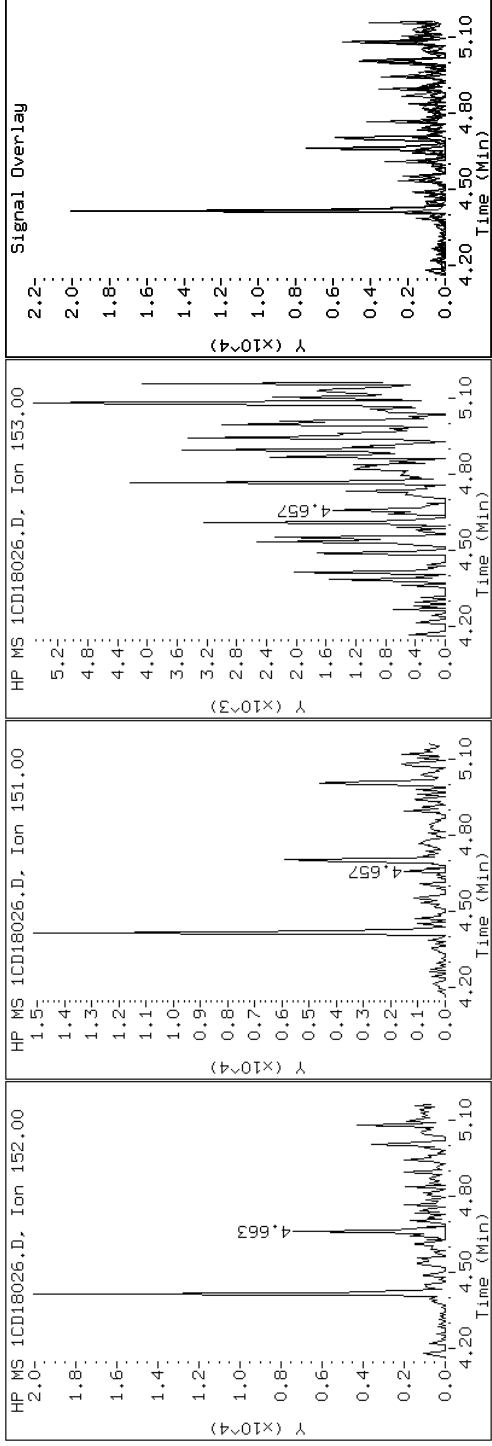
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

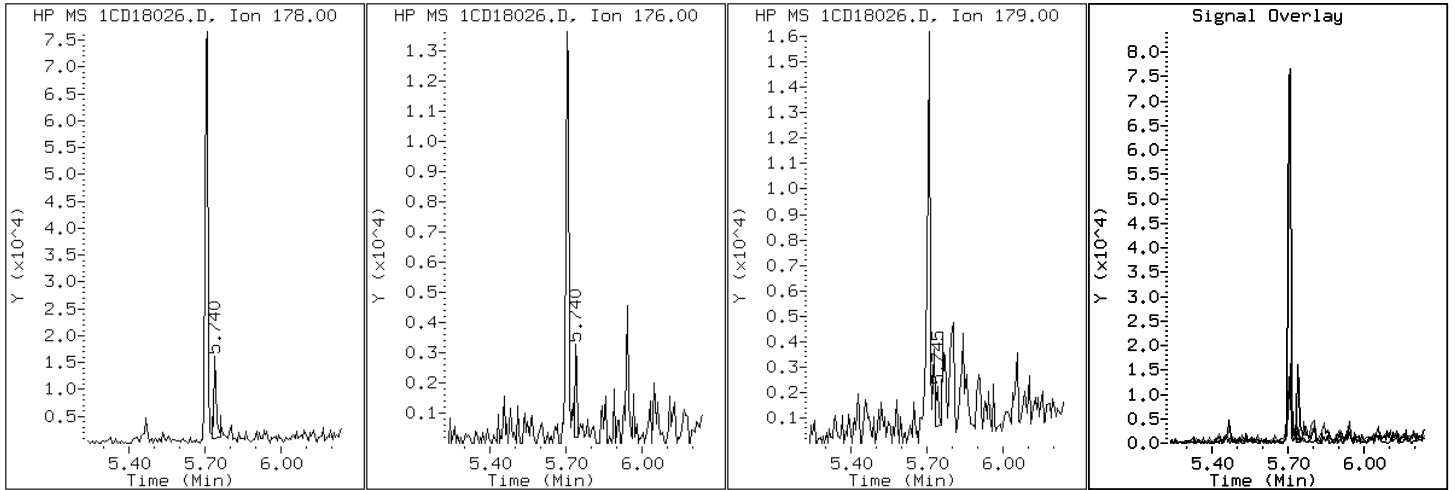
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

12 Anthracene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

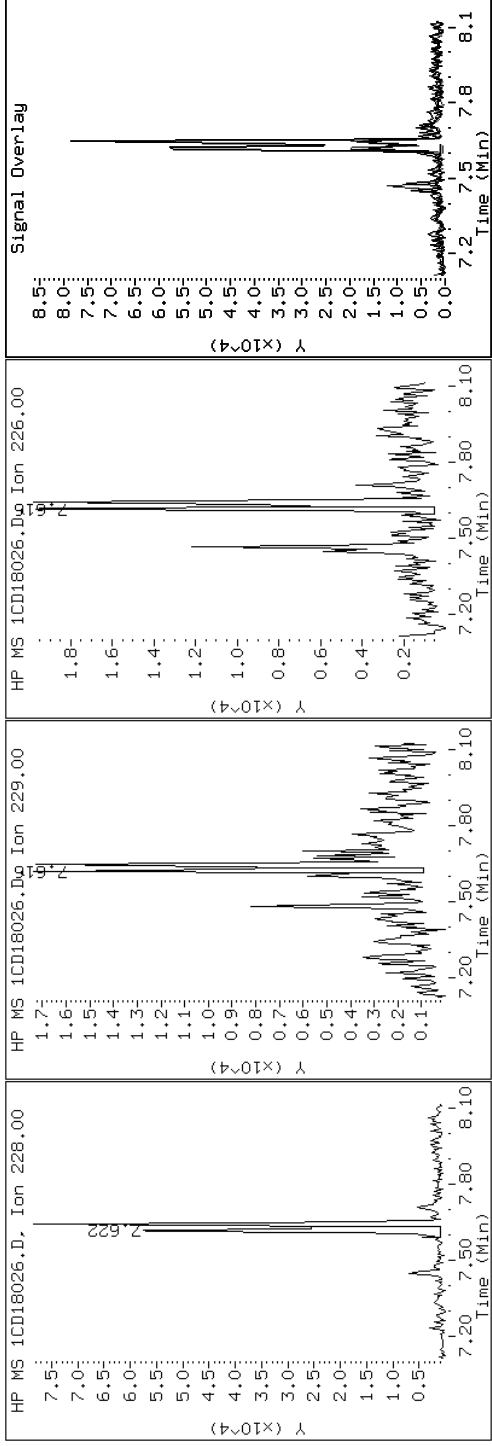
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

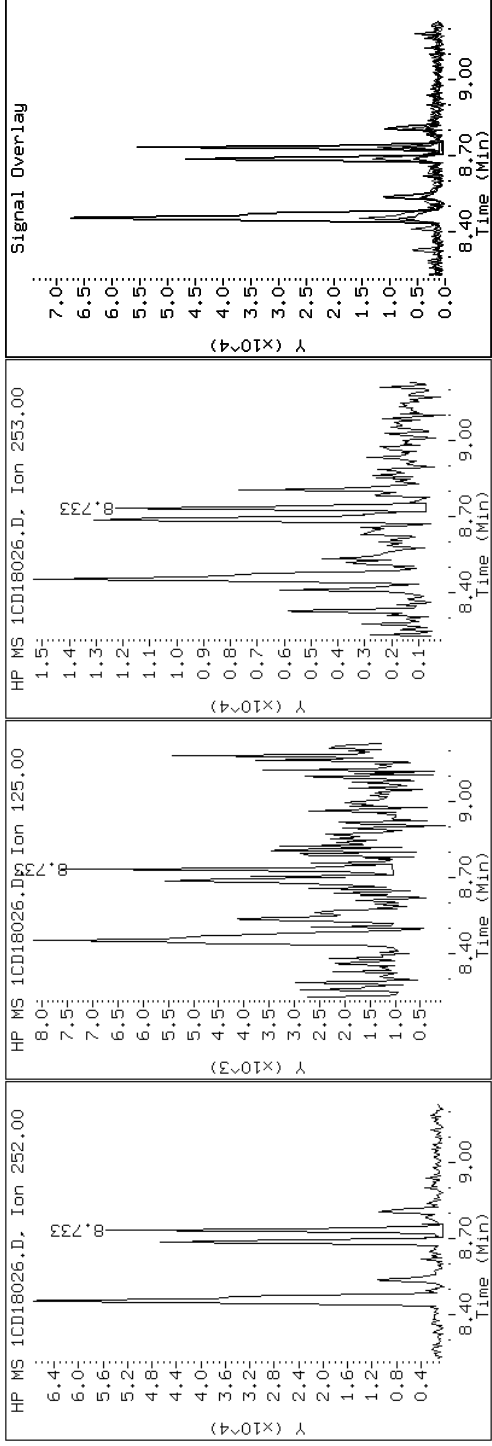
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

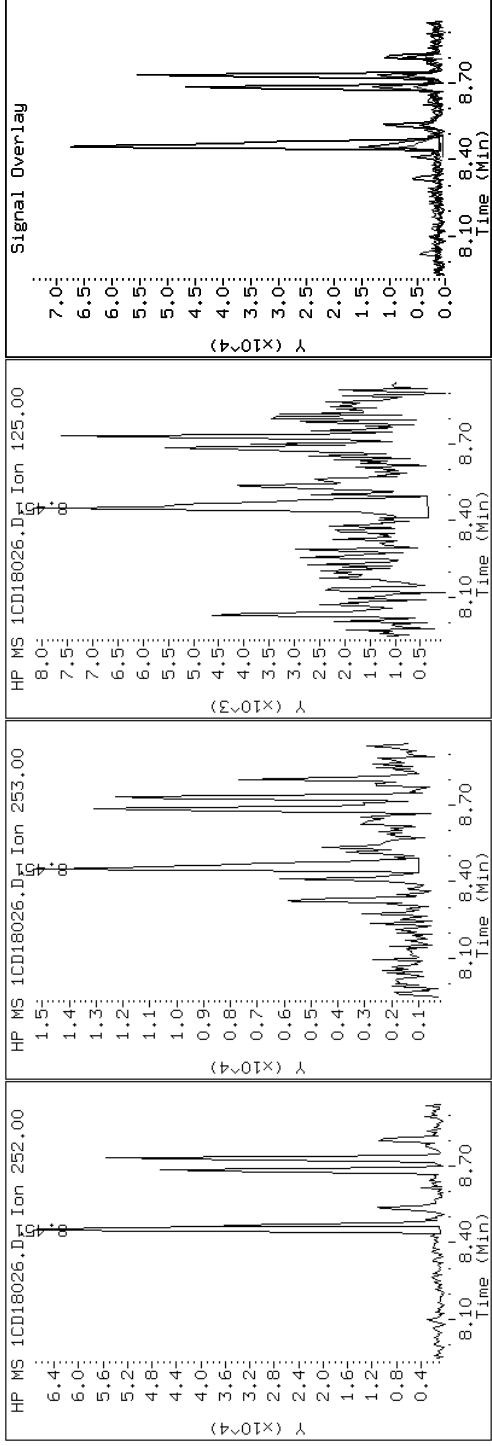
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

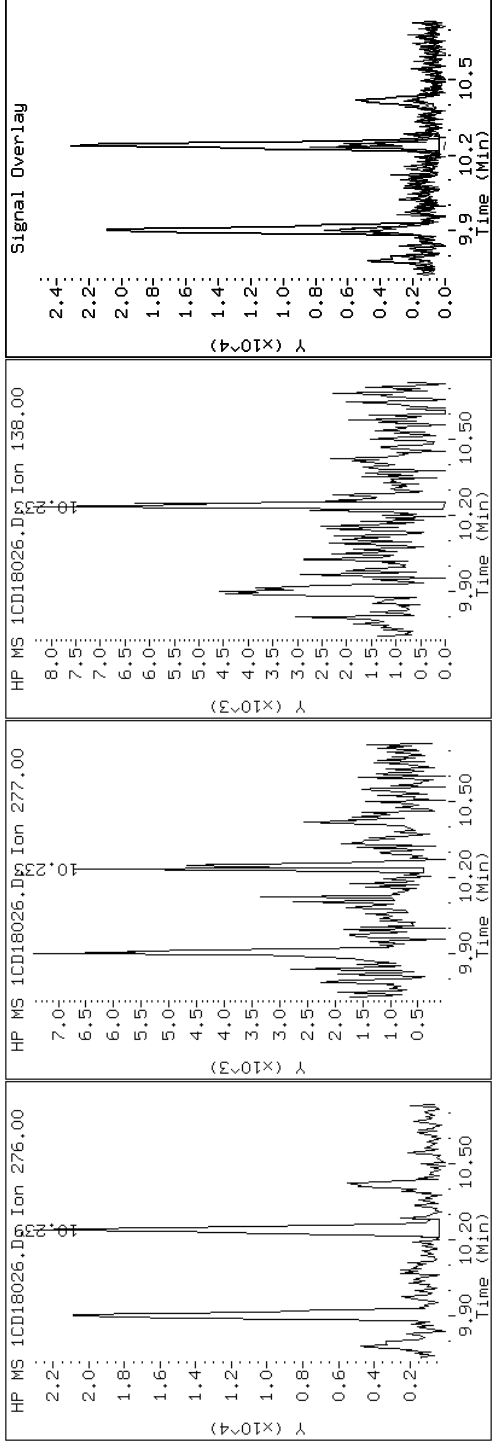
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1CD18026.D

Date: 18-APR-2013 19:02

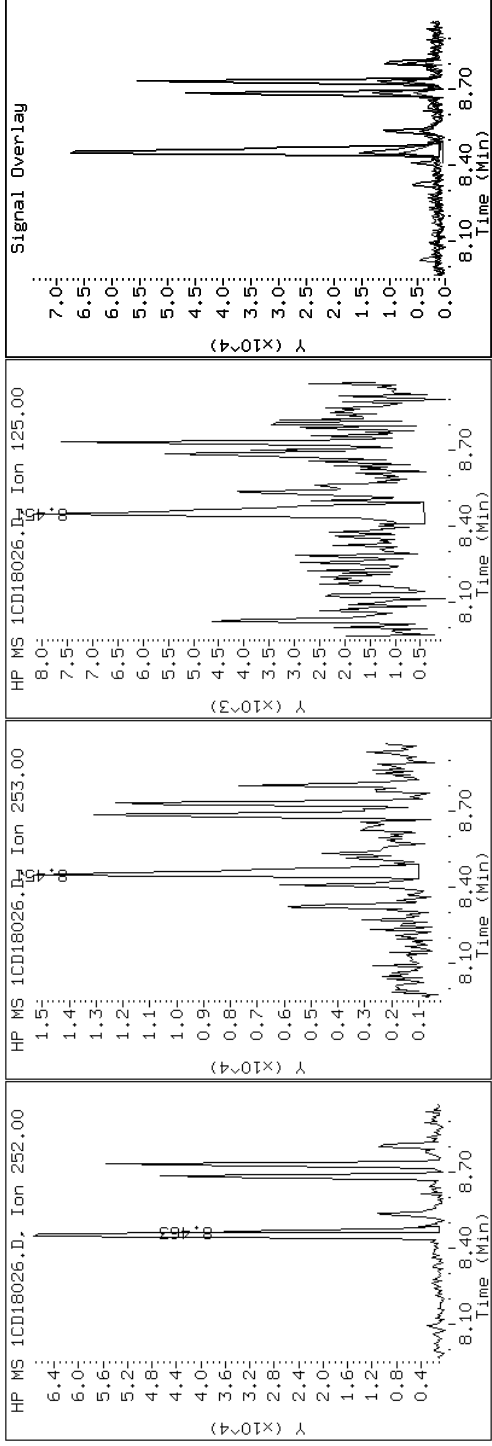
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

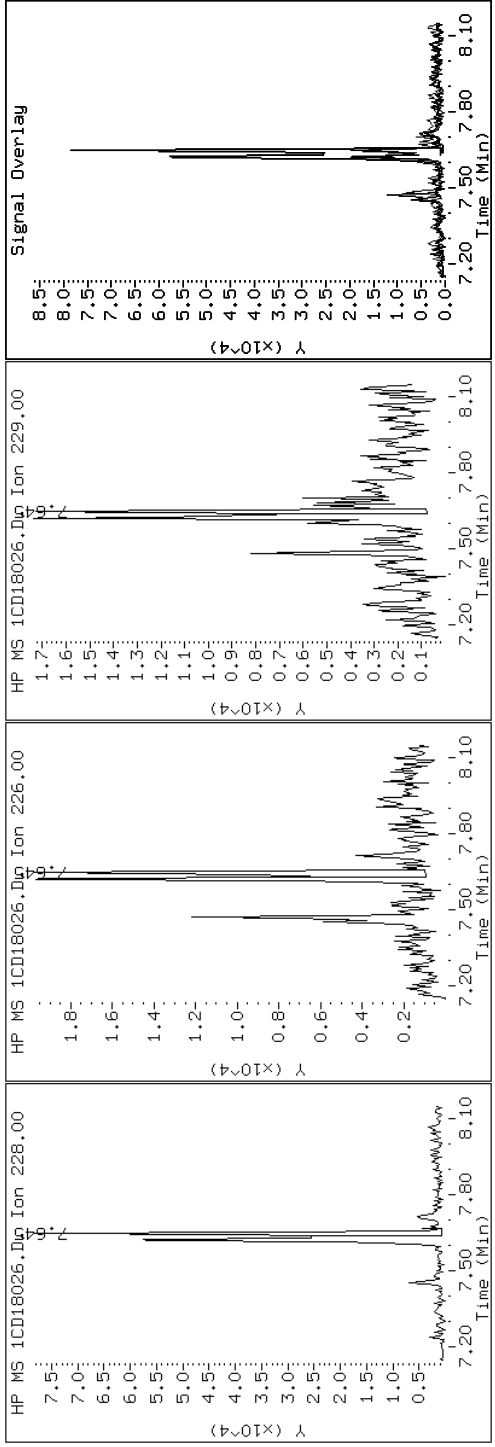
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

19 Chrysene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

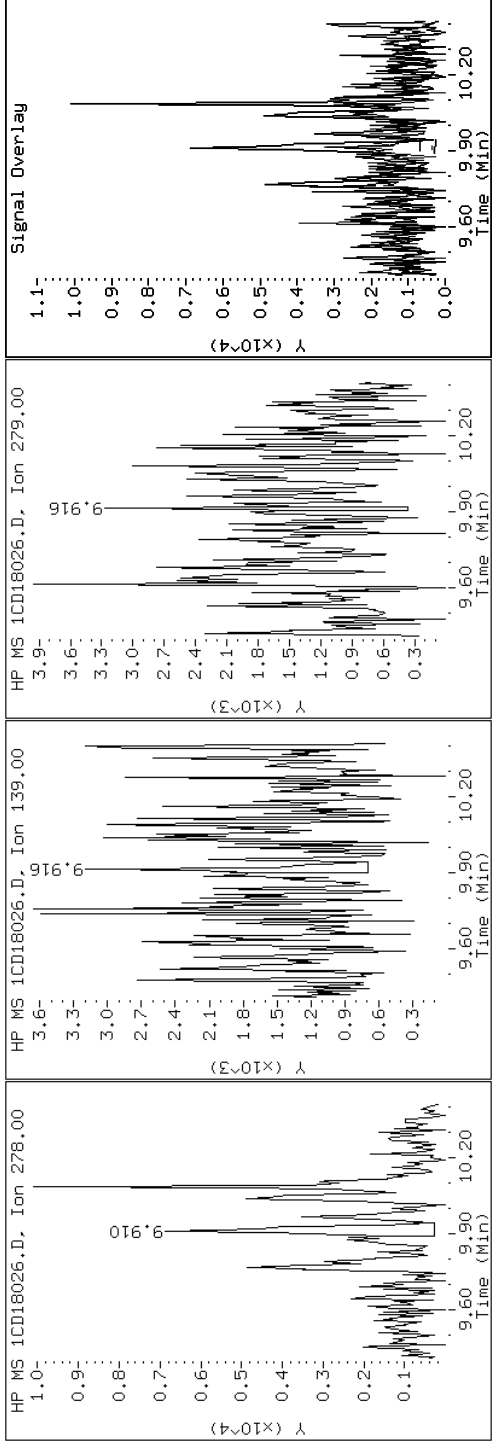
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

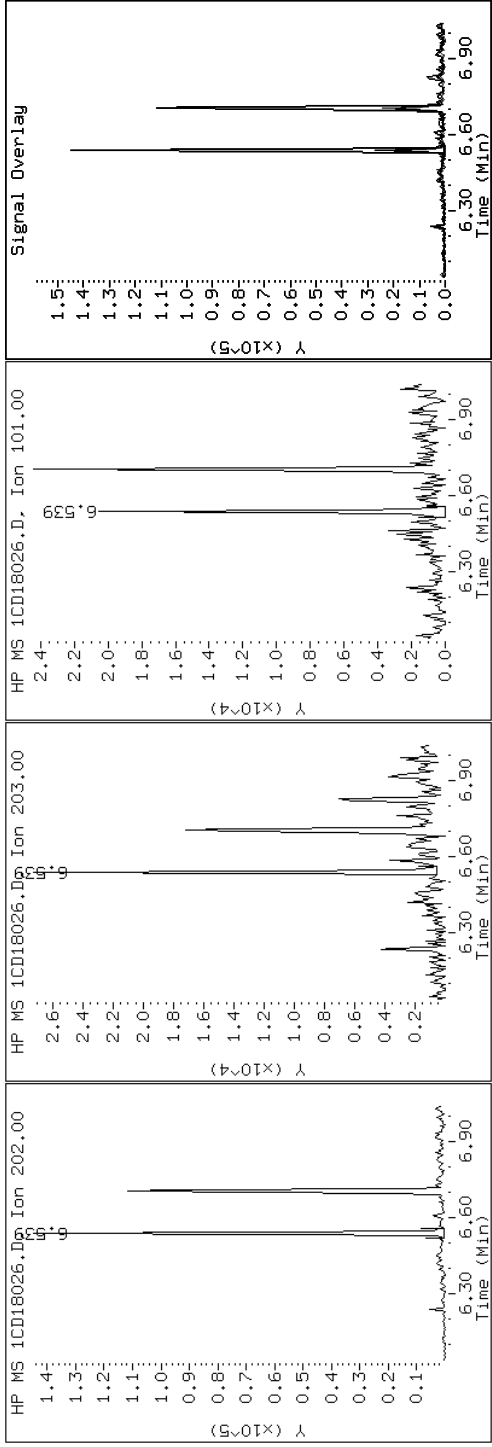
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

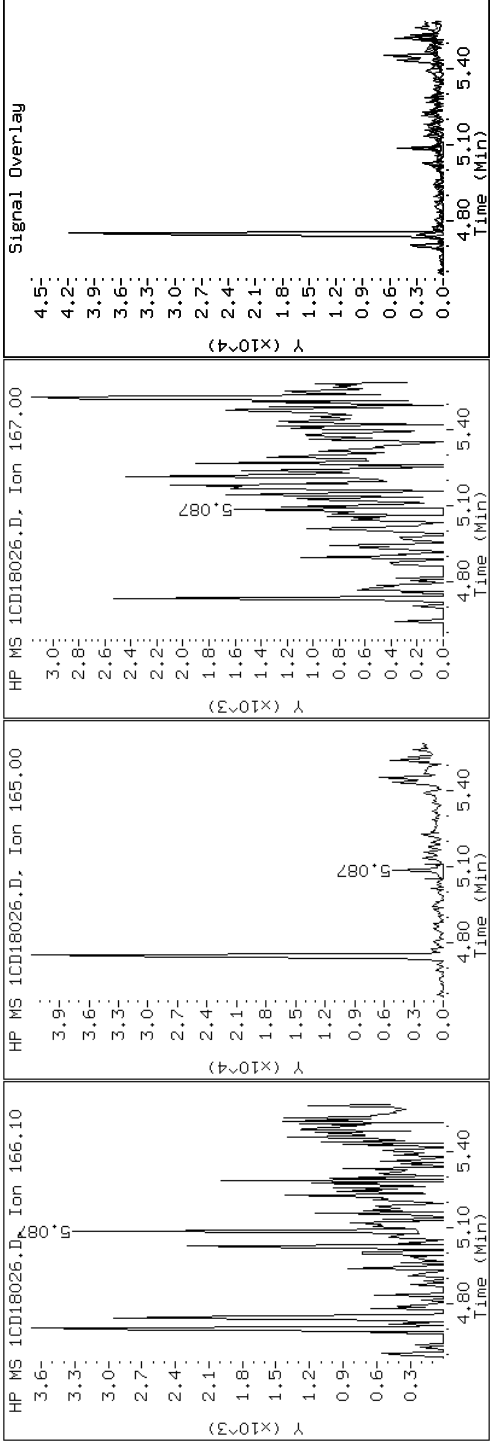
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

9 Fluorene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

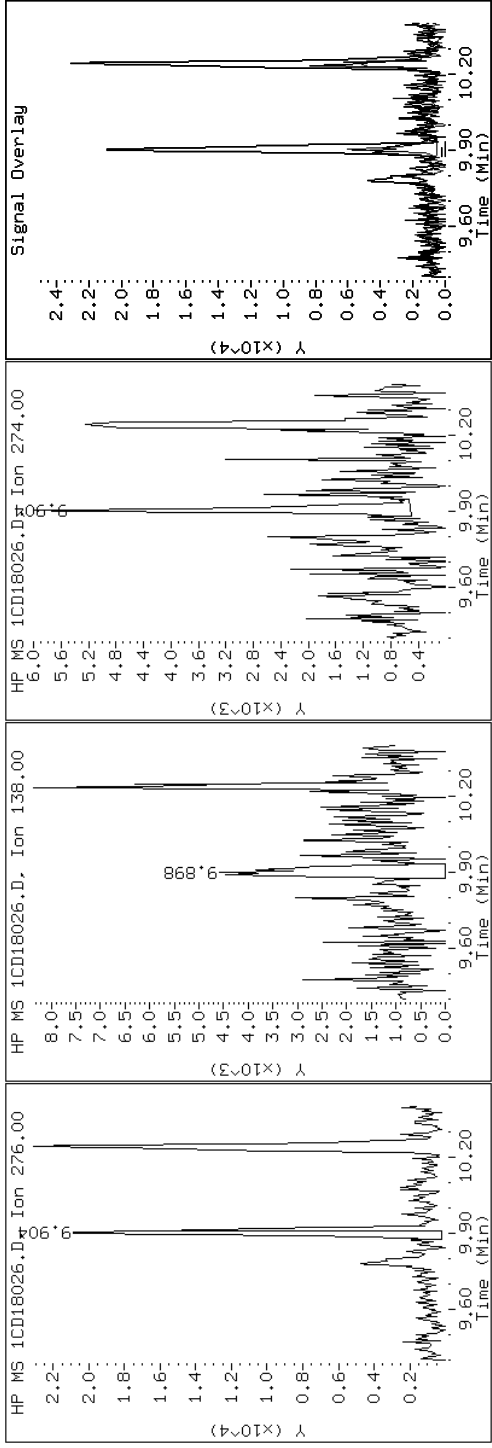
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

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



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

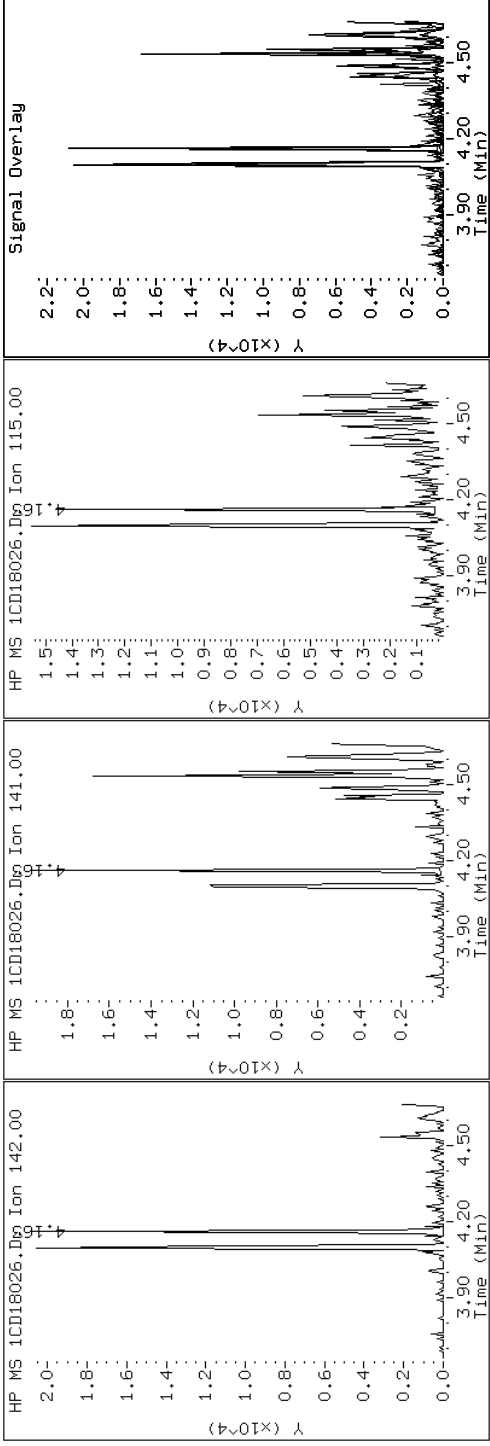
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

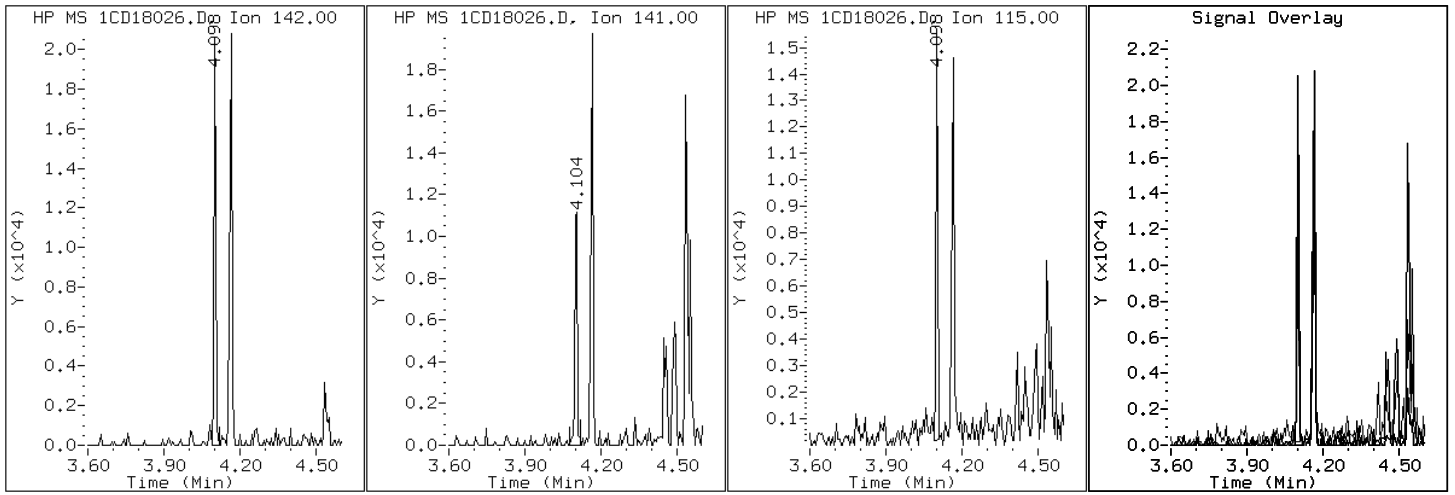
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1CD18026.D

Date: 18-APR-2013 19:02

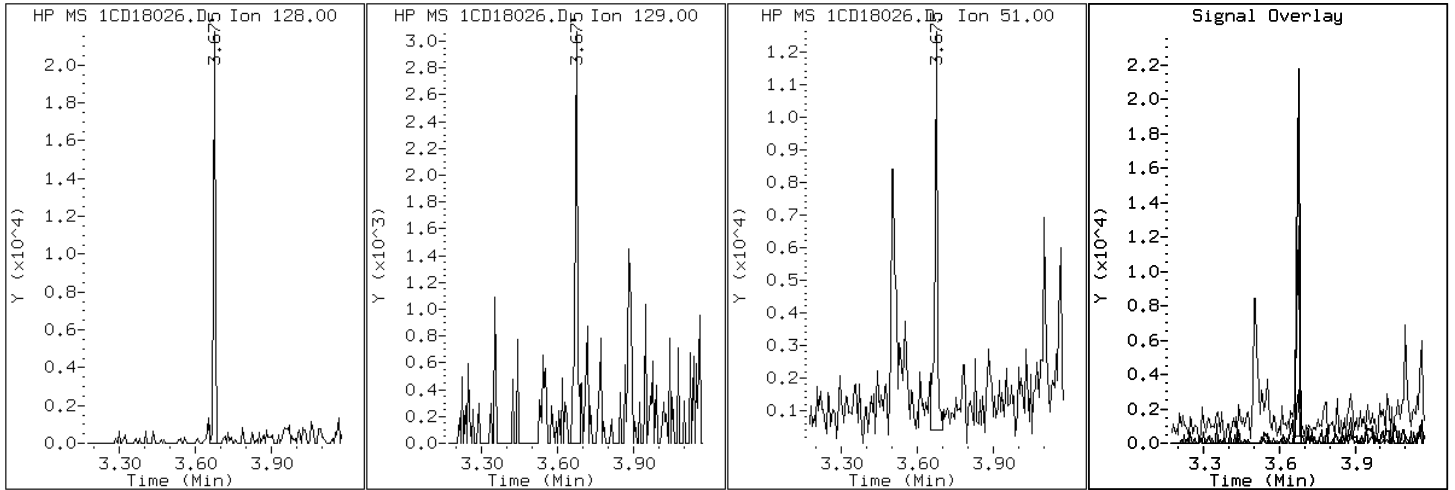
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

2 Naphthalene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

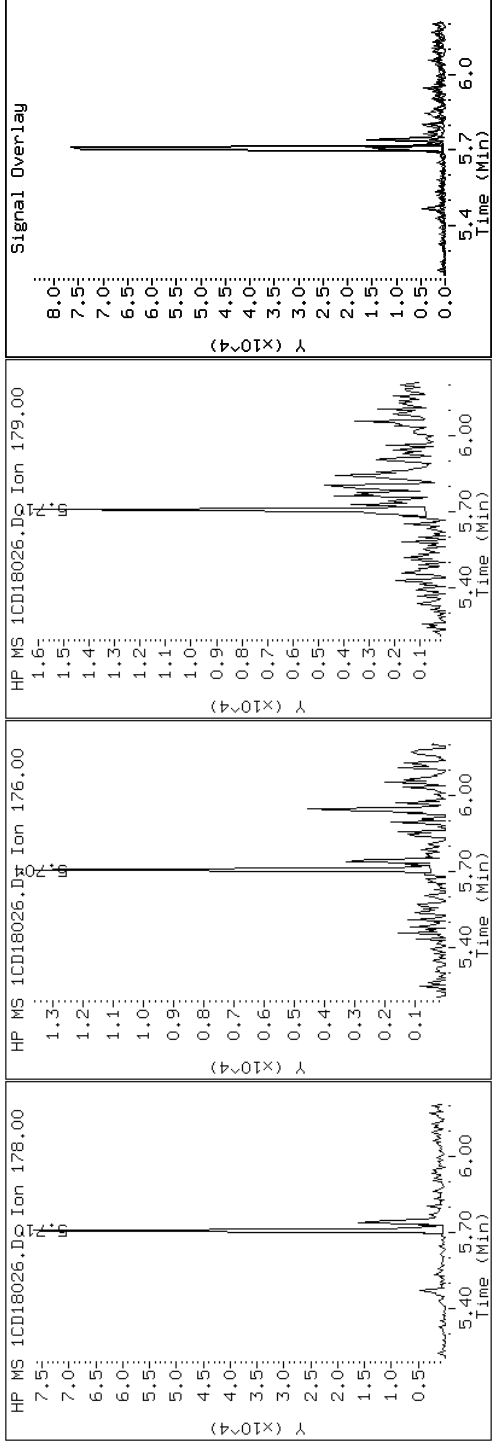
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18026.D

Date: 18-APR-2013 19:02

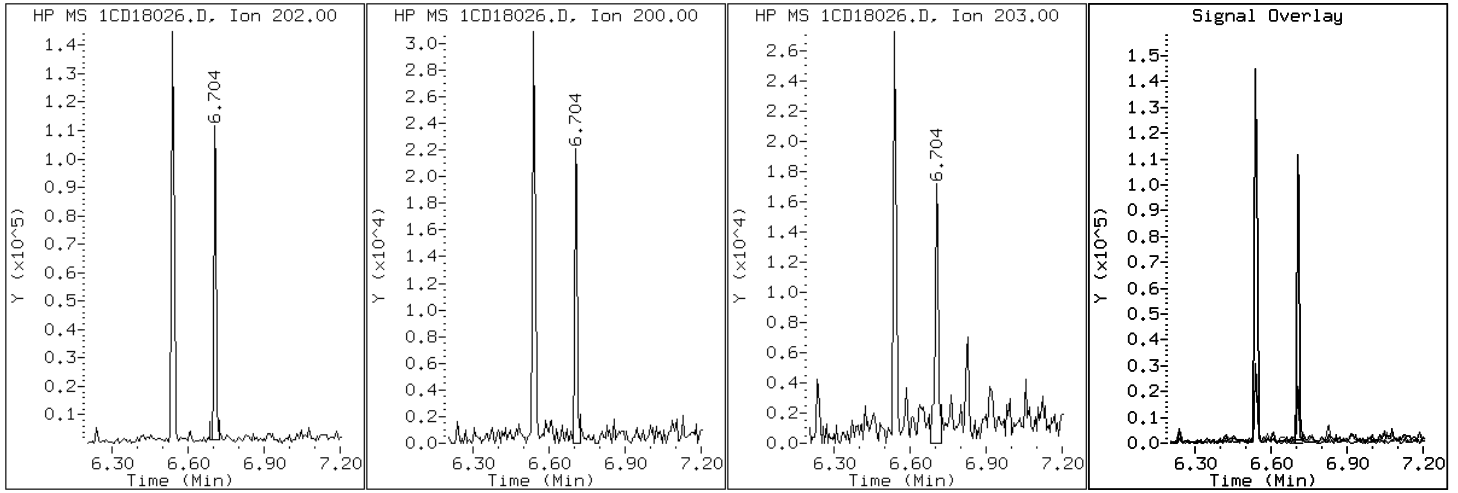
Client ID: FM0252B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-25-a

Operator: SCC

16 Pyrene

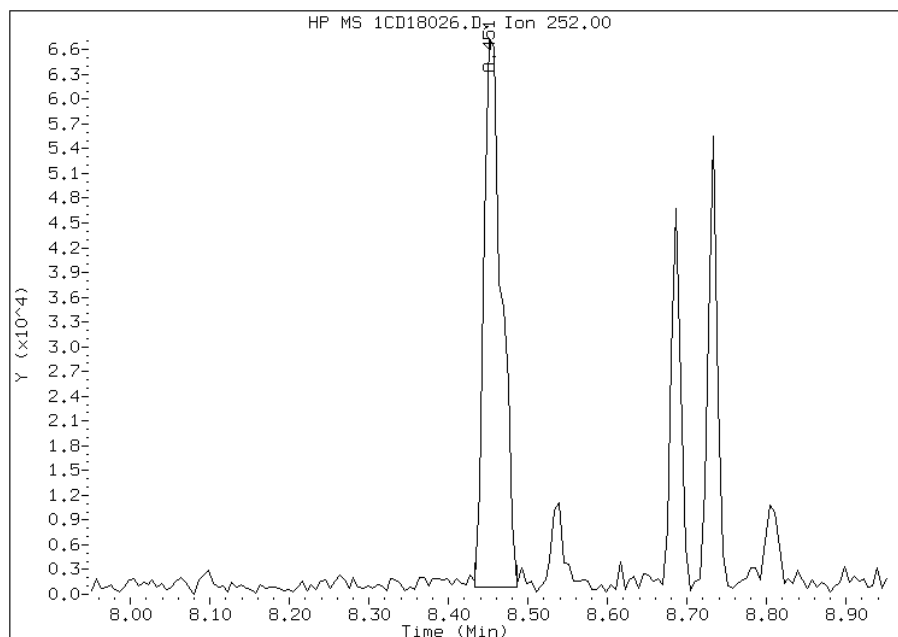


# Manual Integration Report

Data File: 1CD18026.D  
Inj. Date and Time: 18-APR-2013 19:02  
Instrument ID: BSMC5973.i  
Client ID: FM0252B-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

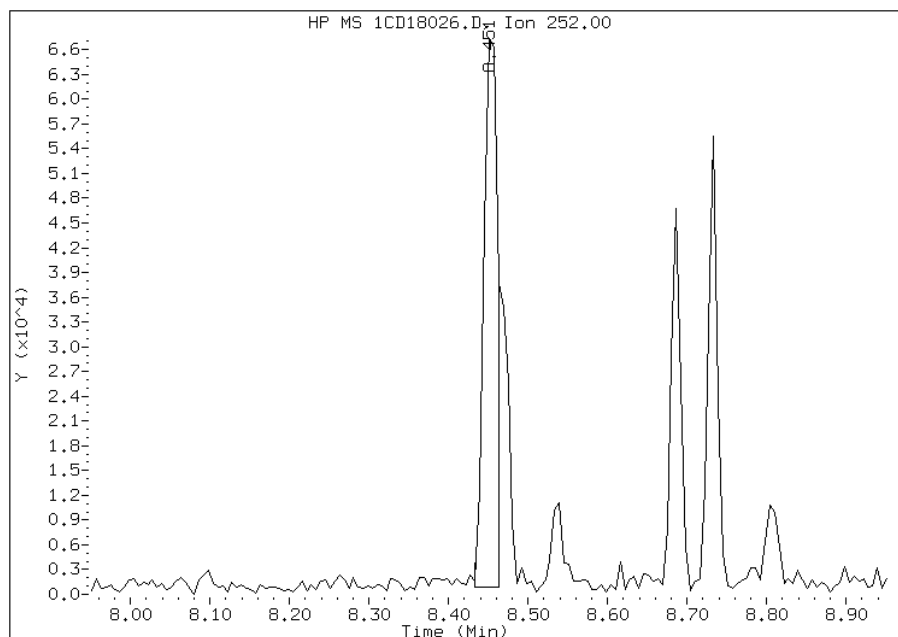
## Processing Integration Results

RT: 8.45  
Response: 103121  
Amount: 13  
Conc: 1108



## Manual Integration Results

RT: 8.45  
Response: 79456  
Amount: 10  
Conc: 853



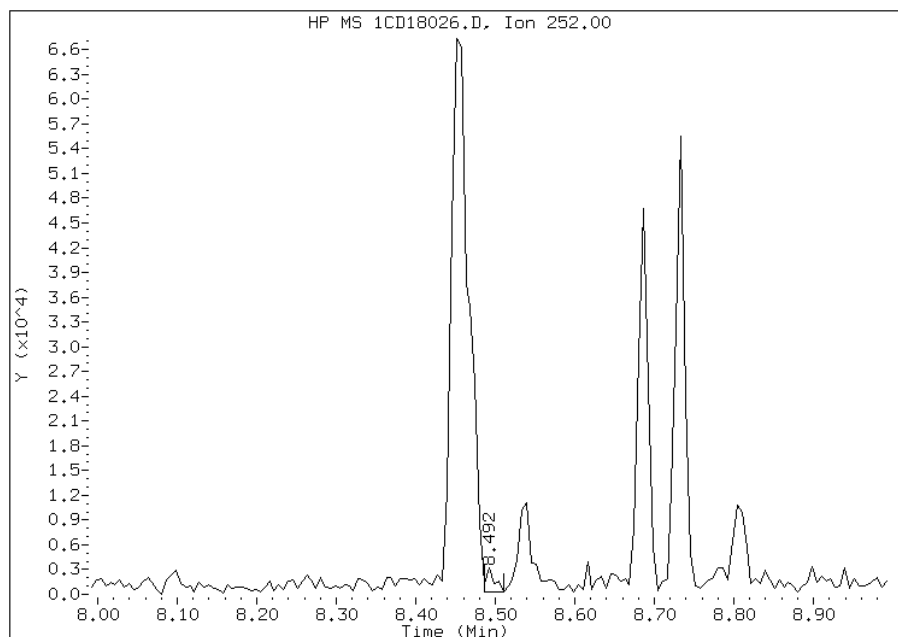
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:23  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18026.D  
Inj. Date and Time: 18-APR-2013 19:02  
Instrument ID: BSMC5973.i  
Client ID: FM0252B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

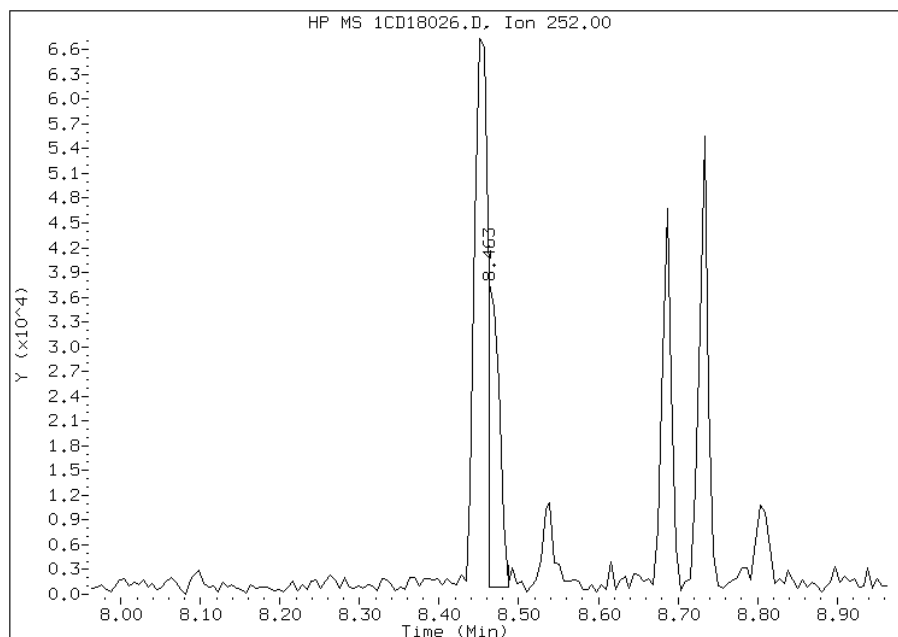
## Processing Integration Results

RT: 8.49  
Response: 2233  
Amount: 0  
Conc: 21



## Manual Integration Results

RT: 8.46  
Response: 36649  
Amount: 4  
Conc: 348



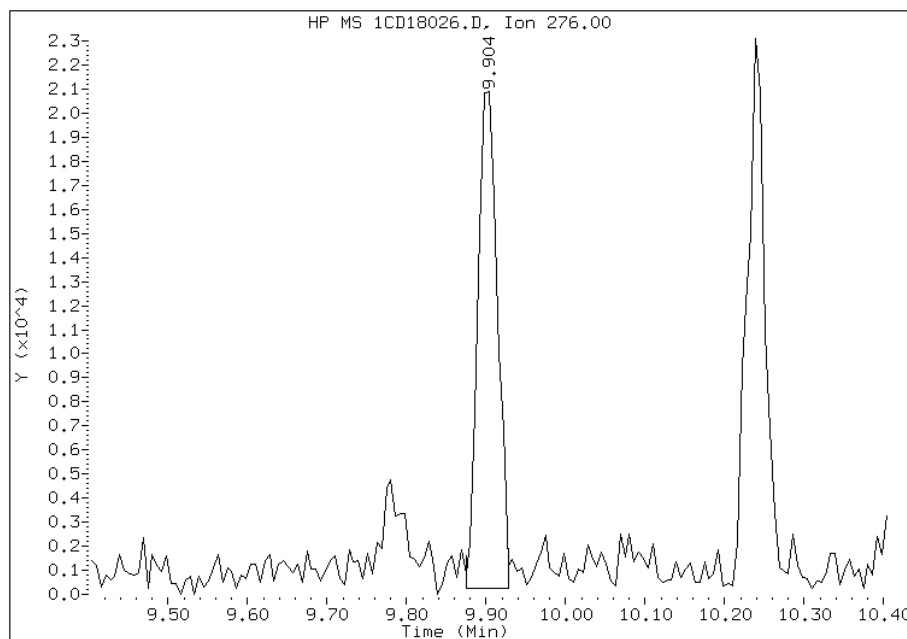
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:23  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18026.D  
Inj. Date and Time: 18-APR-2013 19:02  
Instrument ID: BSMC5973.i  
Client ID: FM0252B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

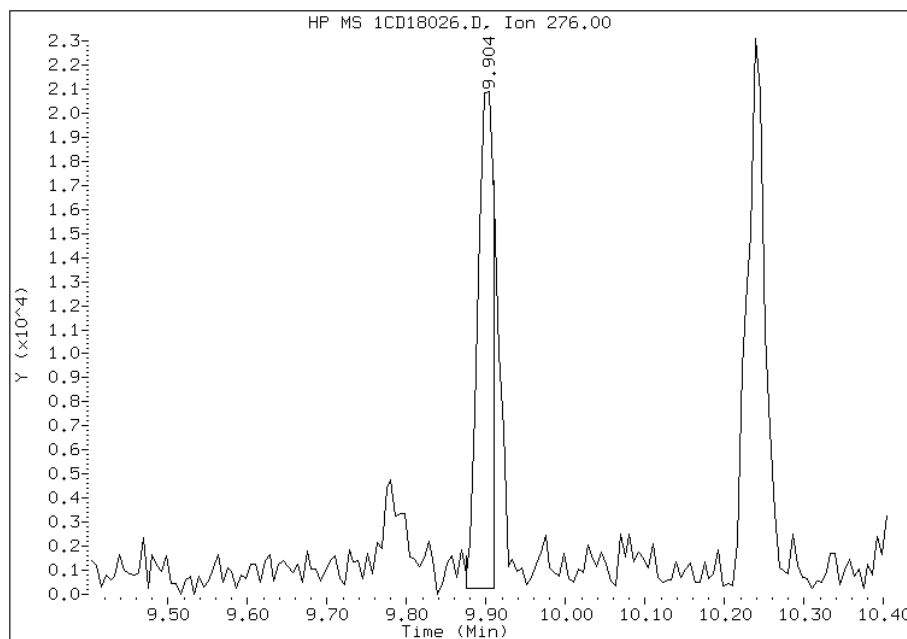
## Processing Integration Results

RT: 9.90  
Response: 35148  
Amount: 5  
Conc: 424



## Manual Integration Results

RT: 9.90  
Response: 29004  
Amount: 4  
Conc: 360



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:23  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0252B-CSD Lab Sample ID: 680-89220-26  
 Matrix: Solid Lab File ID: 1CD18027.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 08:50  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 14.82(g) Date Analyzed: 04/18/2013 19:20  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	J	150	30
208-96-8	Acenaphthylene	61		60	7.6
120-12-7	Anthracene	230		13	6.4
56-55-3	Benzo[a]anthracene	1100		12	5.9
50-32-8	Benzo[a]pyrene	960		16	7.9
205-99-2	Benzo[b]fluoranthene	1800		18	9.2
191-24-2	Benzo[g,h,i]perylene	850		30	6.7
207-08-9	Benzo[k]fluoranthene	640		12	5.4
218-01-9	Chrysene	1300		14	6.8
53-70-3	Dibenz(a,h)anthracene	300		30	6.2
206-44-0	Fluoranthene	1900		30	6.0
86-73-7	Fluorene	110		30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	690		30	11
90-12-0	1-Methylnaphthalene	140		60	6.7
91-57-6	2-Methylnaphthalene	170		60	11
91-20-3	Naphthalene	150		60	6.7
85-01-8	Phenanthrene	940		12	5.9
129-00-0	Pyrene	1700		30	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18027.D  
 Lab Smp Id: 680-89220-A-26-A Client Smp ID: FM0252B-CSD  
 Inj Date : 18-APR-2013 19:20  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-26-a  
 Misc Info : 680-89220-A-26-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 27  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.820	Weight Extracted
M	33.065	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	262799	40.0000	
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	174373	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	324257	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	42803	8.66107	873.1062
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	361134	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	342206	40.0000	
2 Naphthalene	128		3.675	3.674	(1.003)	10902	1.53466	154.7058
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	6789	1.70167	171.5420
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	6250	1.37736	138.8486
5 Acenaphthylene	152		4.663	4.663	(0.983)	4466	0.60443	60.9310
7 Acenaphthene	154		4.769	4.769	(1.005)	5489	1.23270	124.2662
9 Fluorene	166		5.086	5.086	(1.072)	6323	1.11585	112.4864
11 Phenanthrene	178		5.710	5.704	(1.003)	88964	9.36679	944.2485
12 Anthracene	178		5.739	5.739	(1.008)	21474	2.28118	229.9618



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851	(1.028)	14072	1.60506	161.8026
15 Fluoranthene	202	6.539	6.539	(1.149)	202176	19.2201	1937.5456
16 Pyrene	202	6.704	6.704	(0.879)	169376	16.4861	1661.9296
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	114595	11.2214	1131.2105
19 Chrysene	228	7.645	7.645	(1.002)	127885	12.6589	1276.1199
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	152396	17.6318	1777.4274(M)
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	61673	6.30583	635.6792(QM)
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	84823	9.49398	957.0702
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.898	(1.127)	55306	6.87022	692.5740(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.129)	21818	2.93685	296.0580
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	70430	8.41031	847.8270

QC Flag Legend

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

Data File: 1CD18027.D

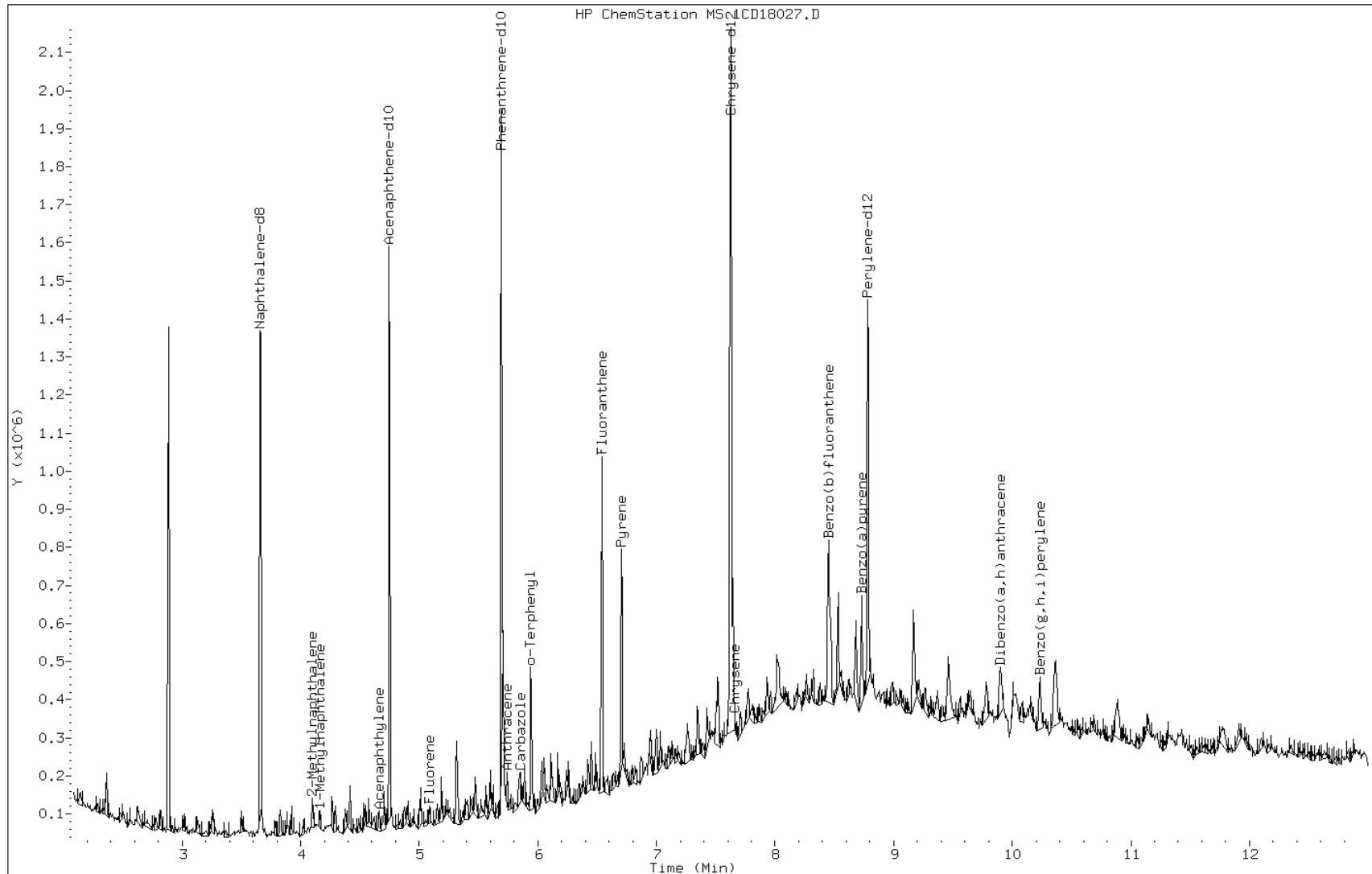
Date: 18-APR-2013 19:20

Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

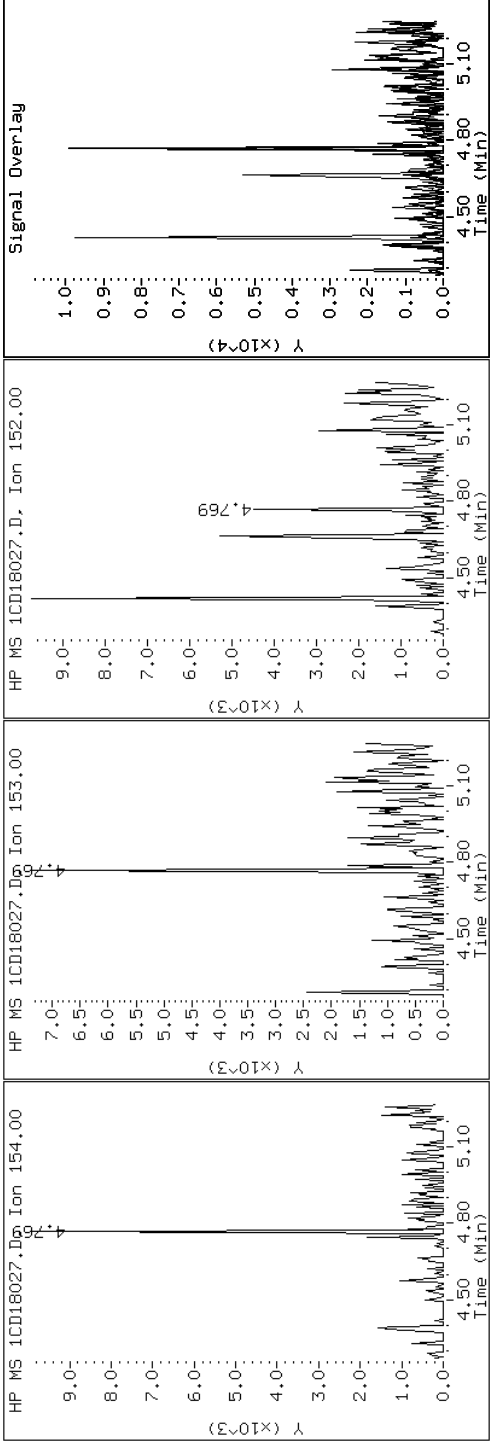
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

7 Acenaphthene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

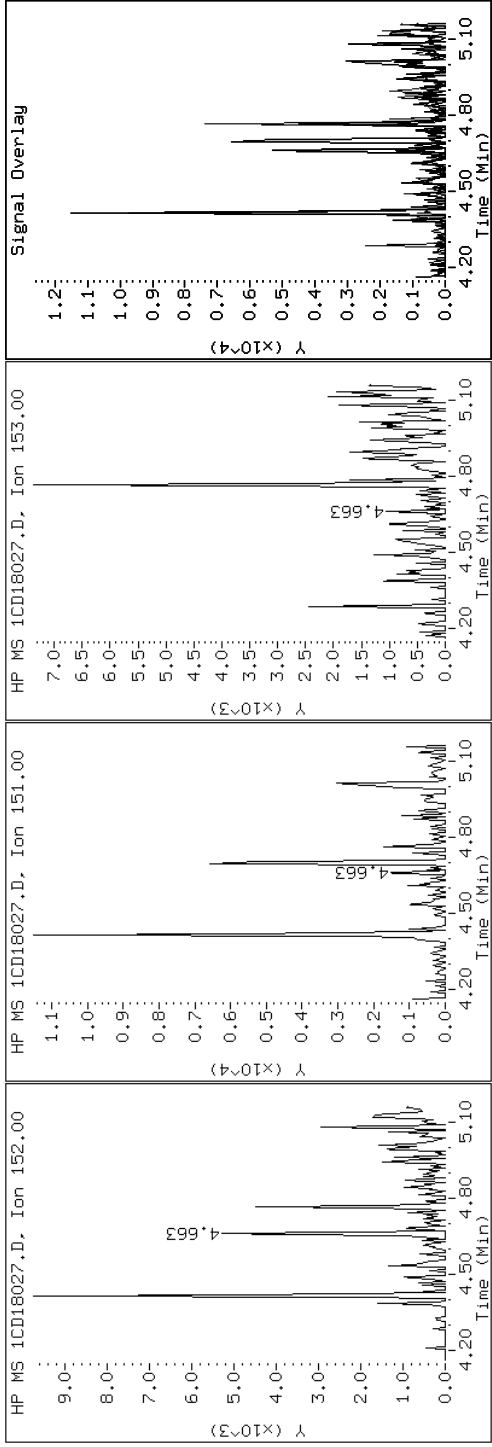
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

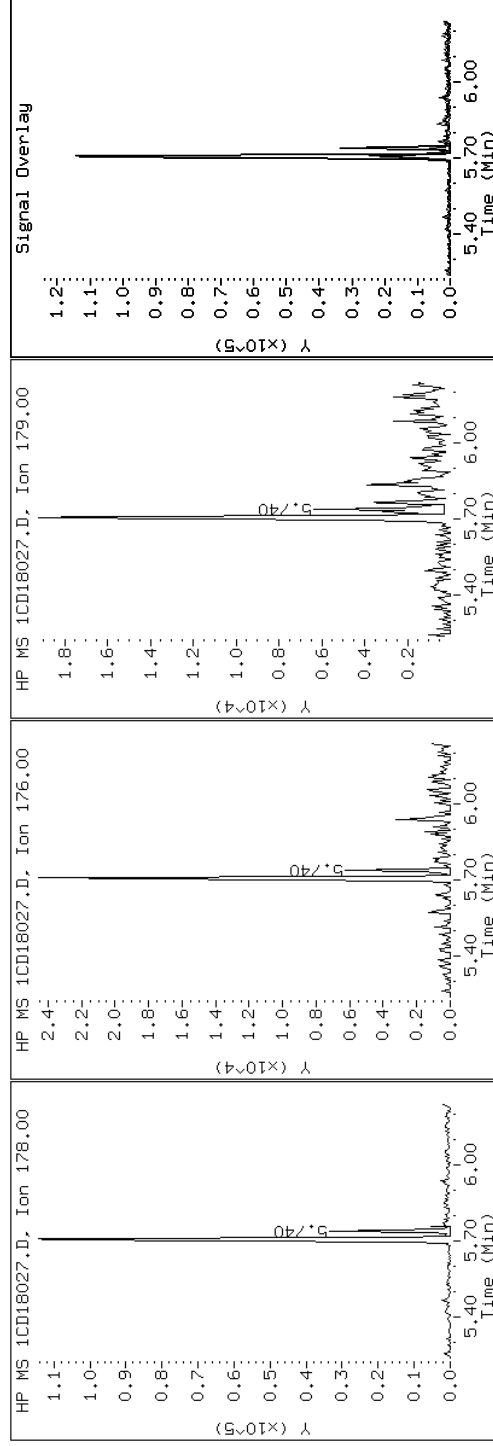
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

12 Anthracene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

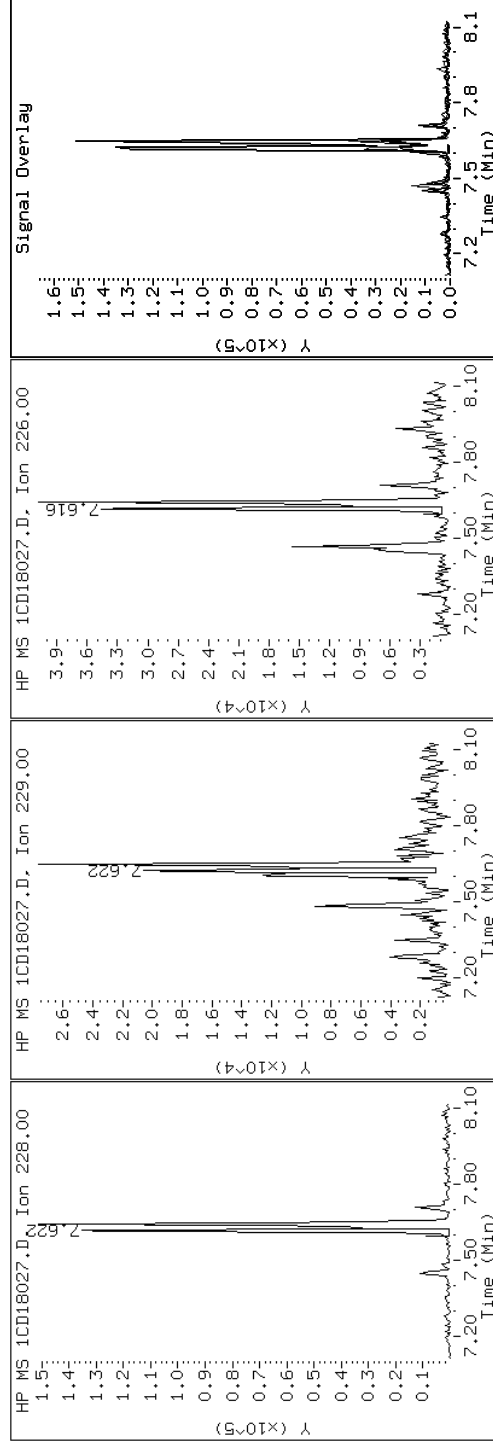
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

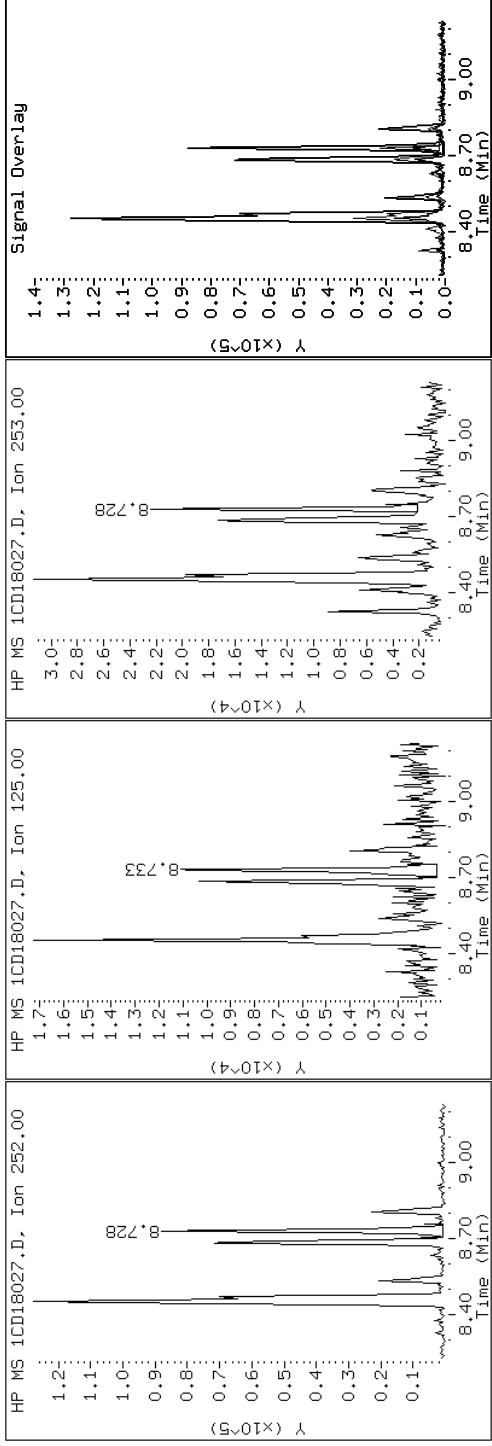
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

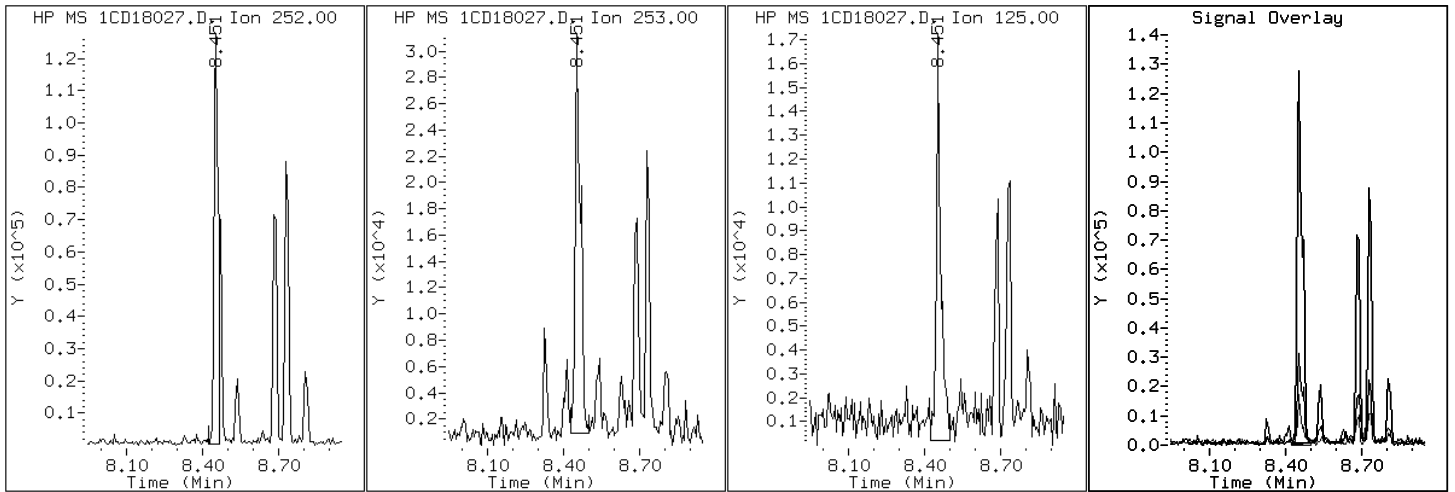
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

20 Benzo(b)fluoranthene





Data File: 1CD18027.D

Date: 18-APR-2013 19:20

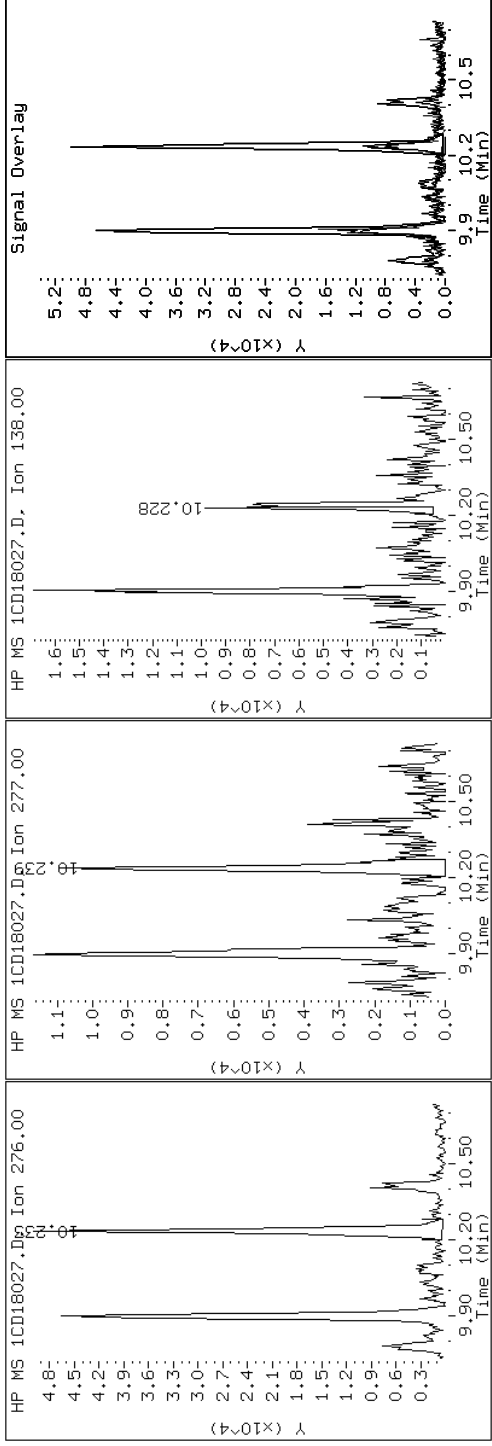
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

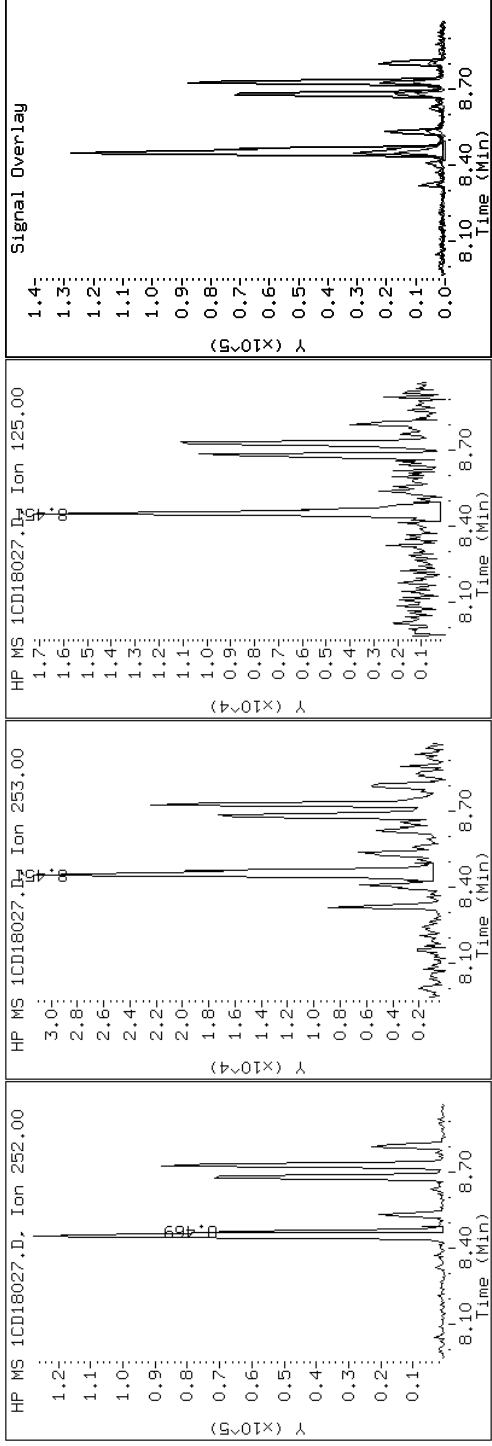
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

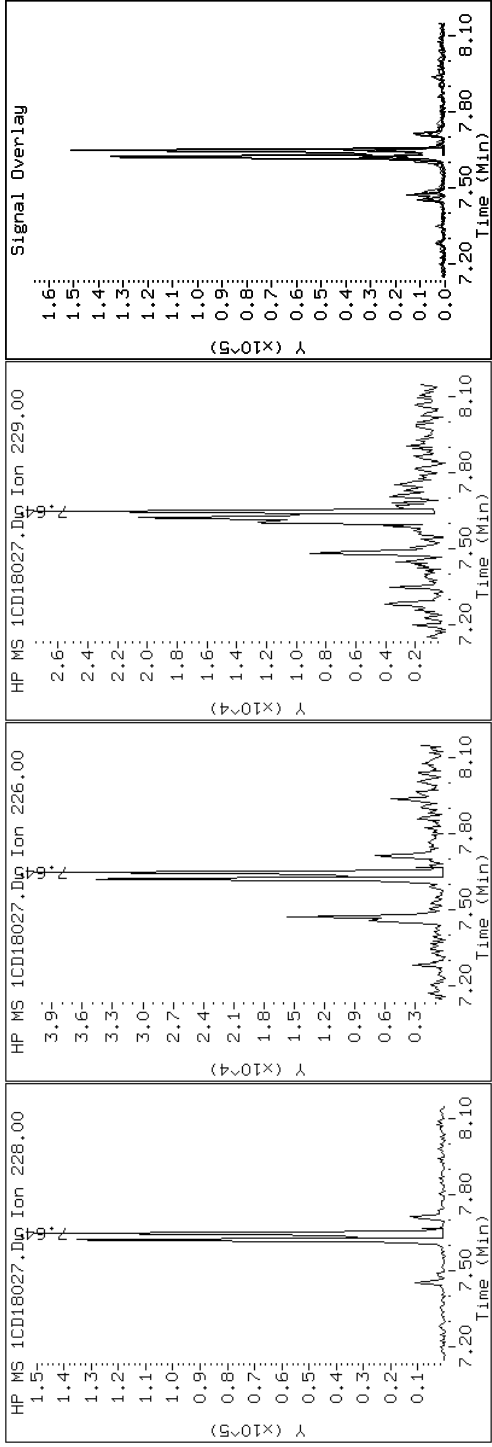
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

19 Chrysene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

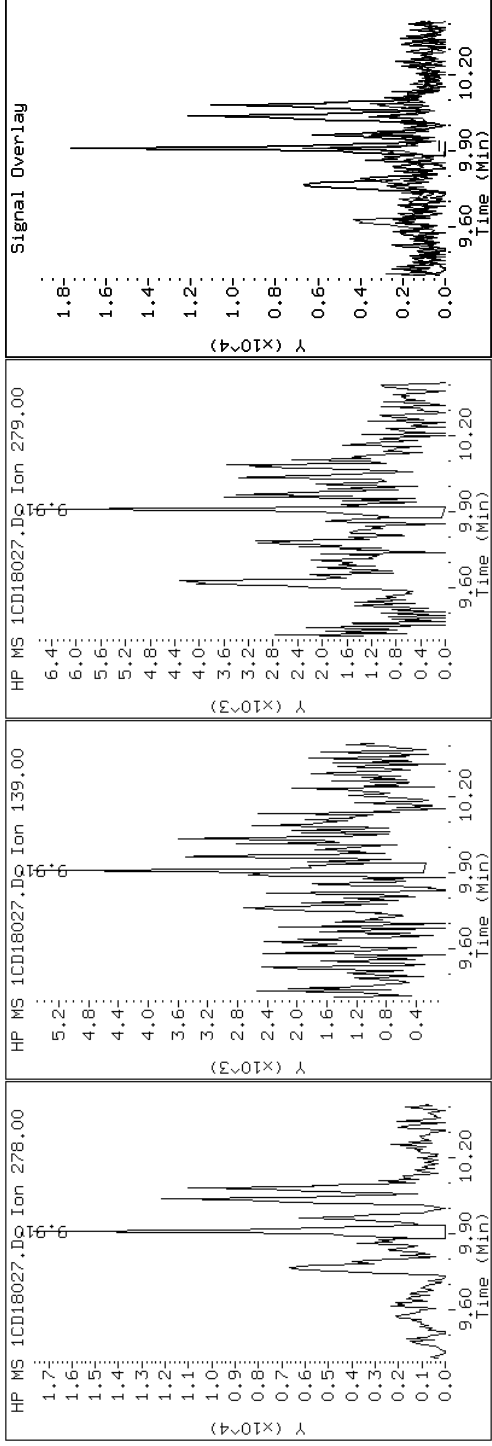
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

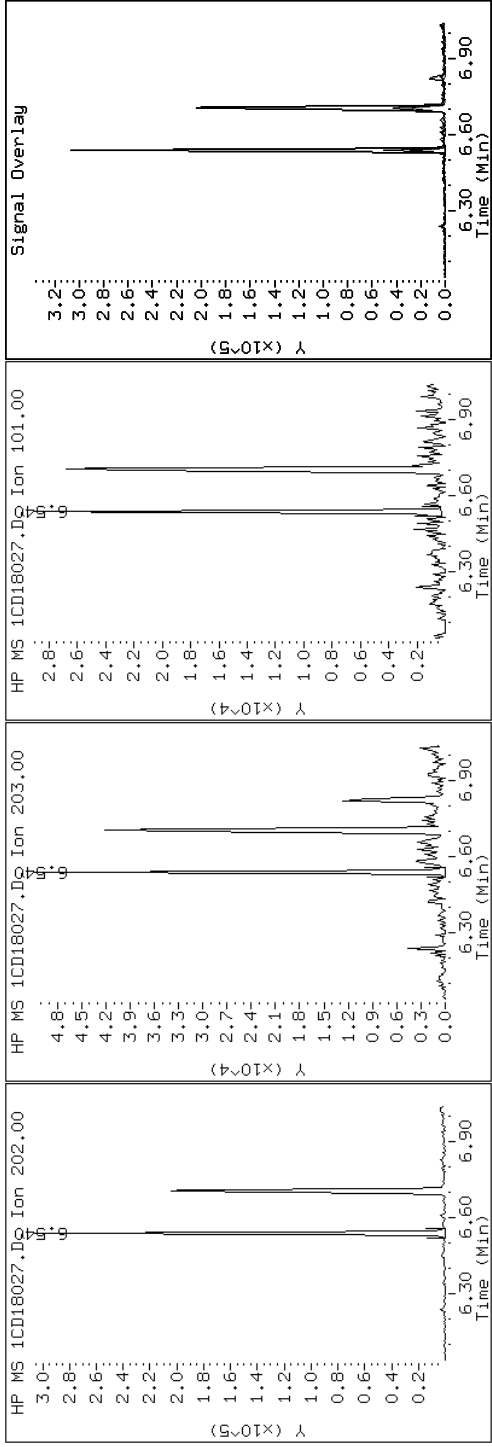
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

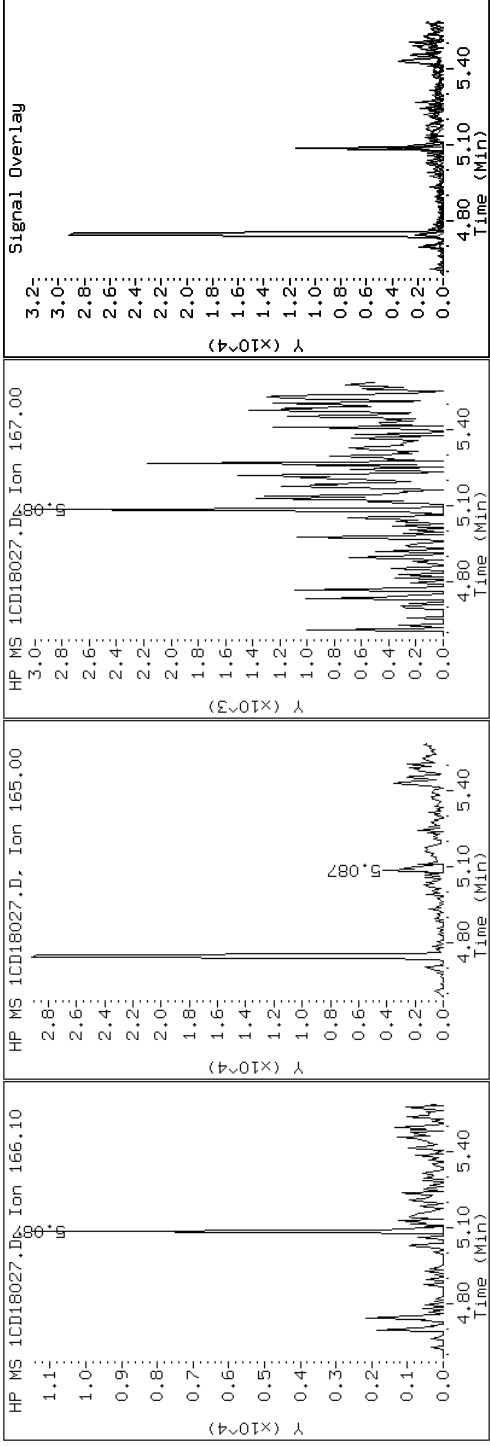
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

9 Fluorene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

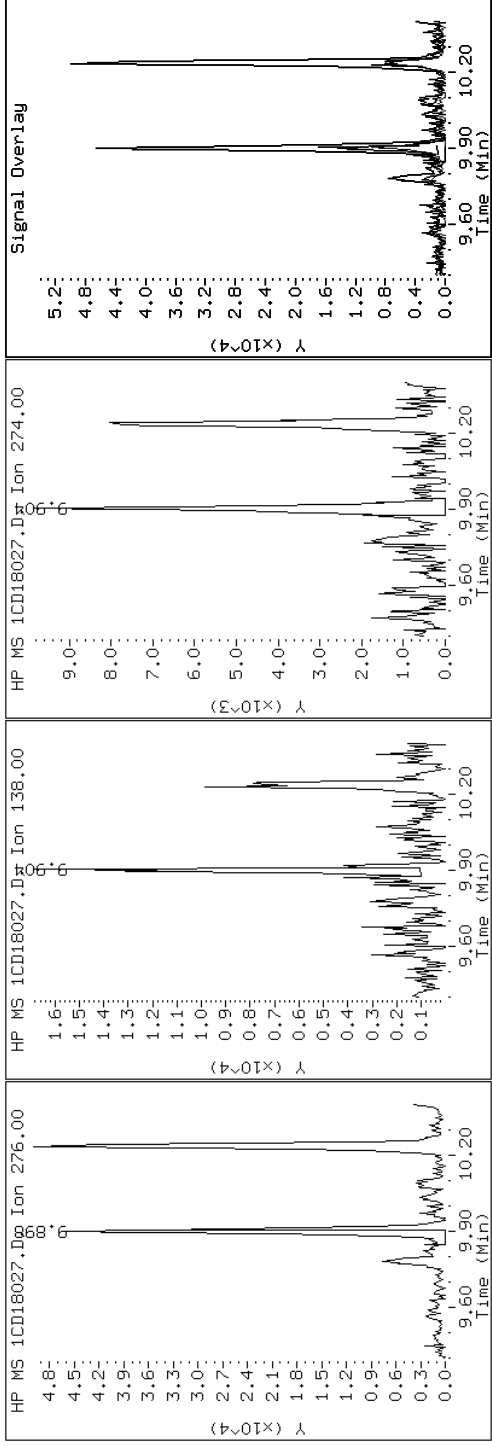
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

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



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

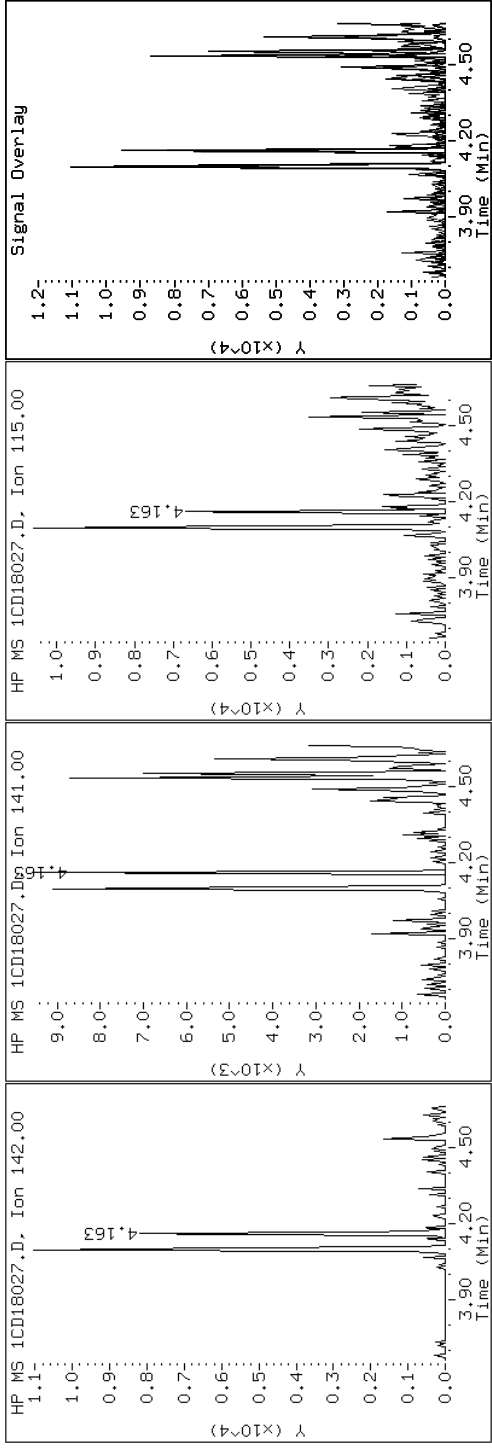
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD18027.D

Date: 18-APR-2013 19:20

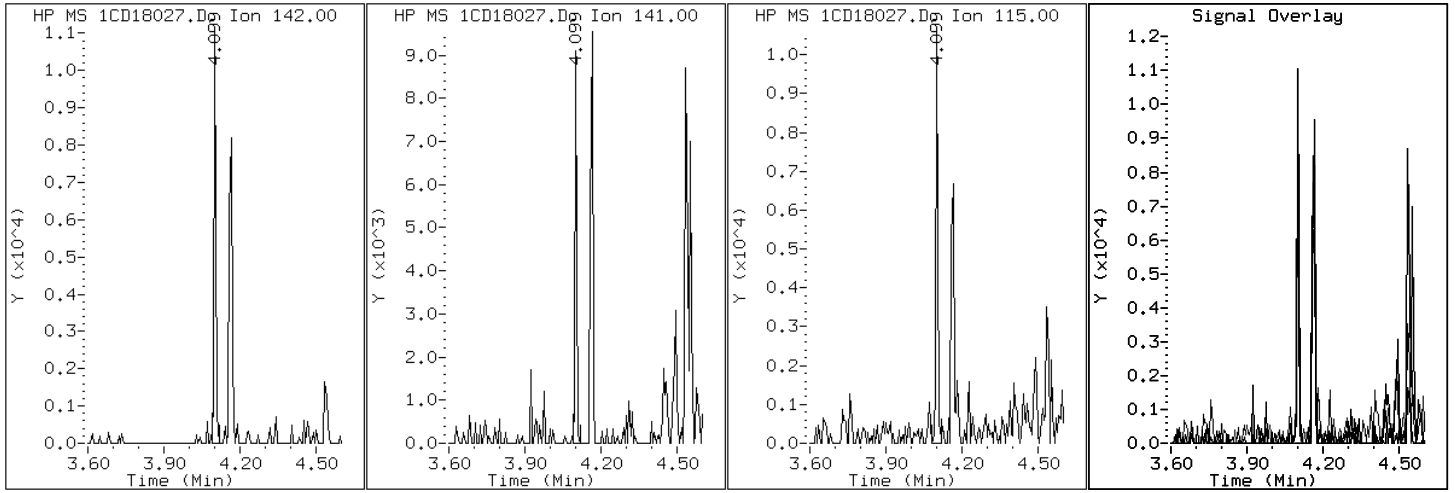
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

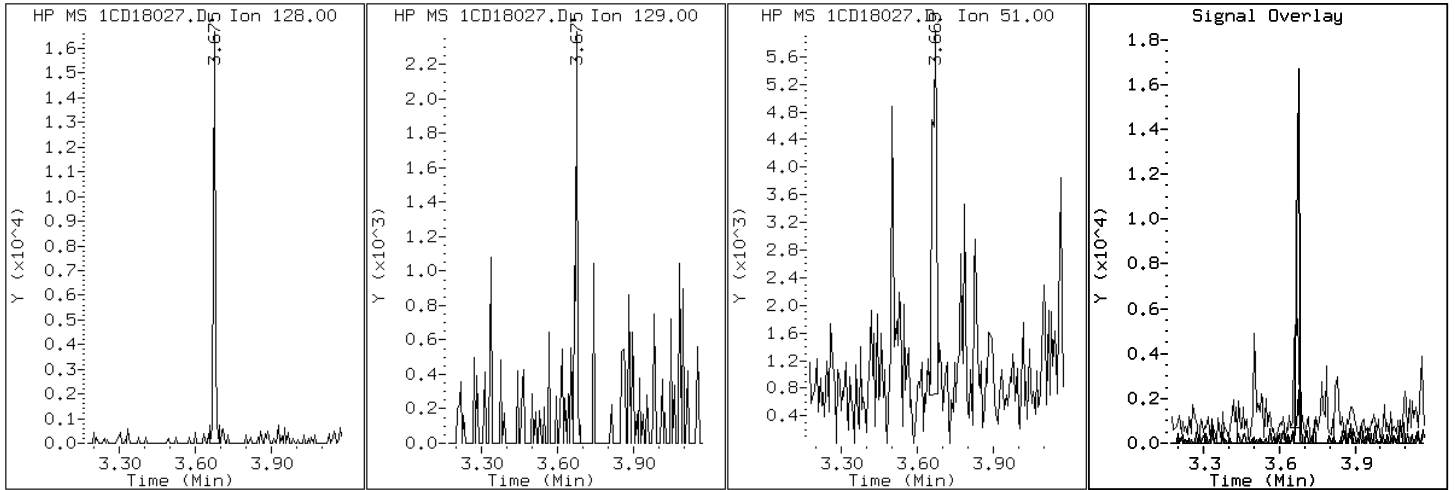
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

2 Naphthalene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

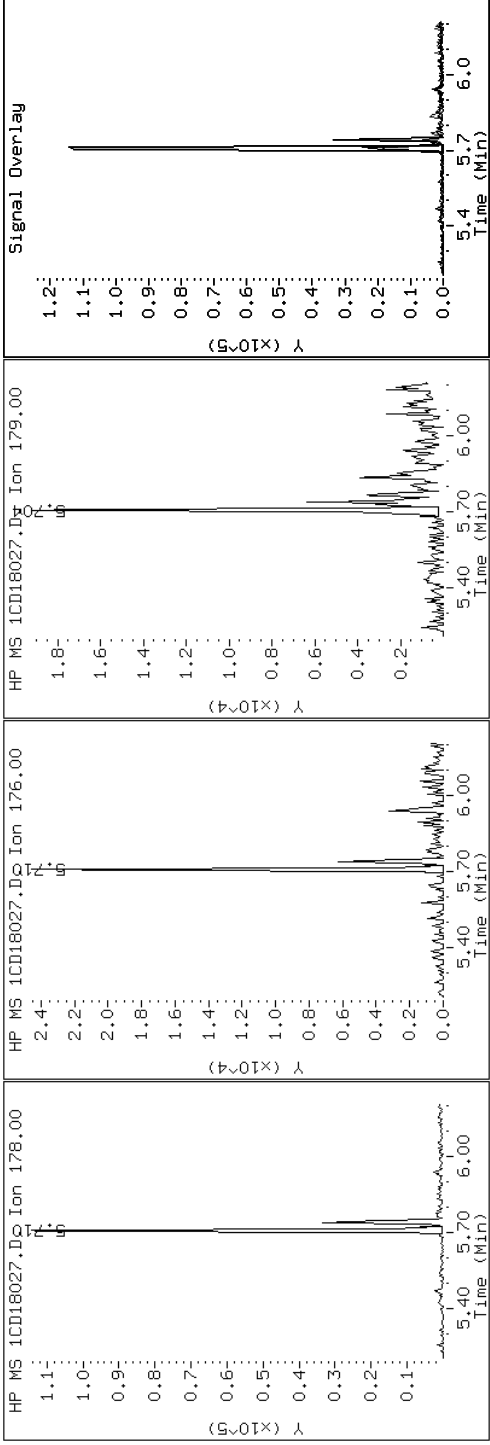
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18027.D

Date: 18-APR-2013 19:20

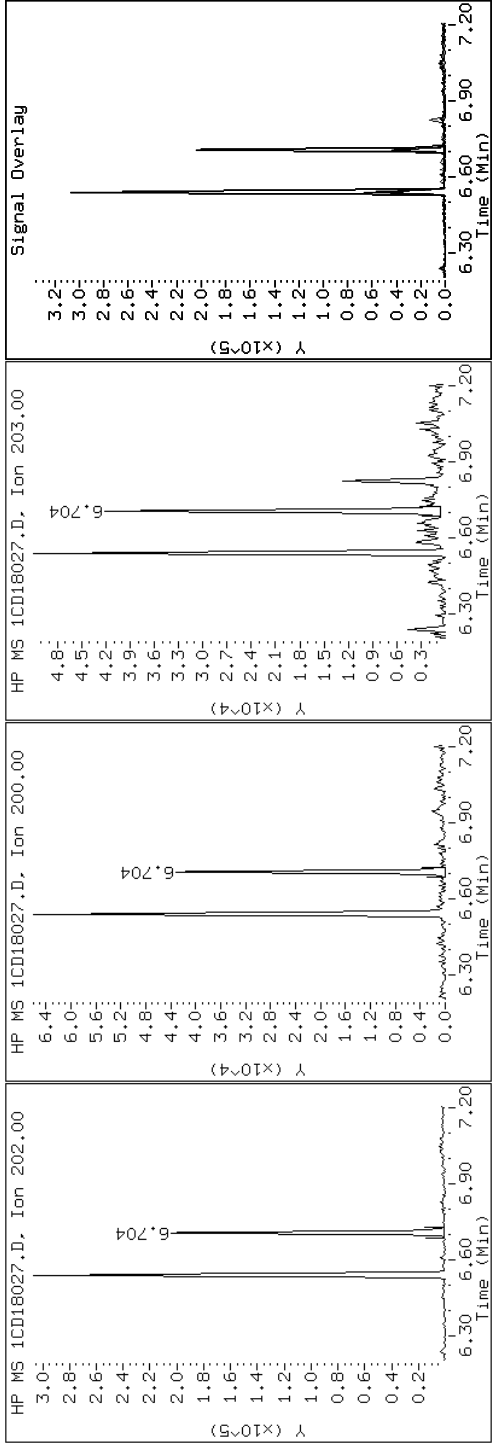
Client ID: FM0252B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89220-a-26-a

Operator: SCC

16 Pyrene

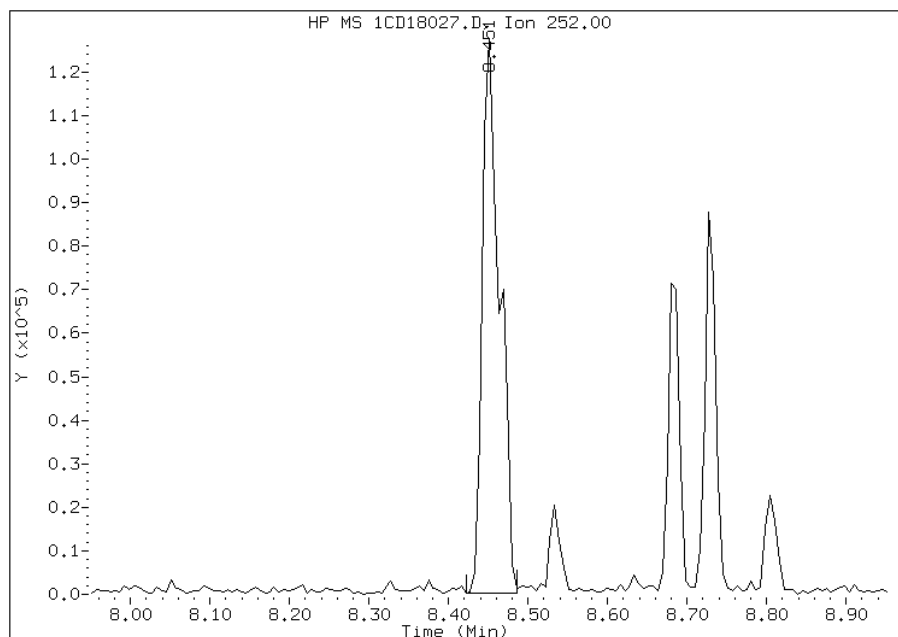


# Manual Integration Report

Data File: 1CD18027.D  
Inj. Date and Time: 18-APR-2013 19:20  
Instrument ID: BSMC5973.i  
Client ID: FM0252B-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

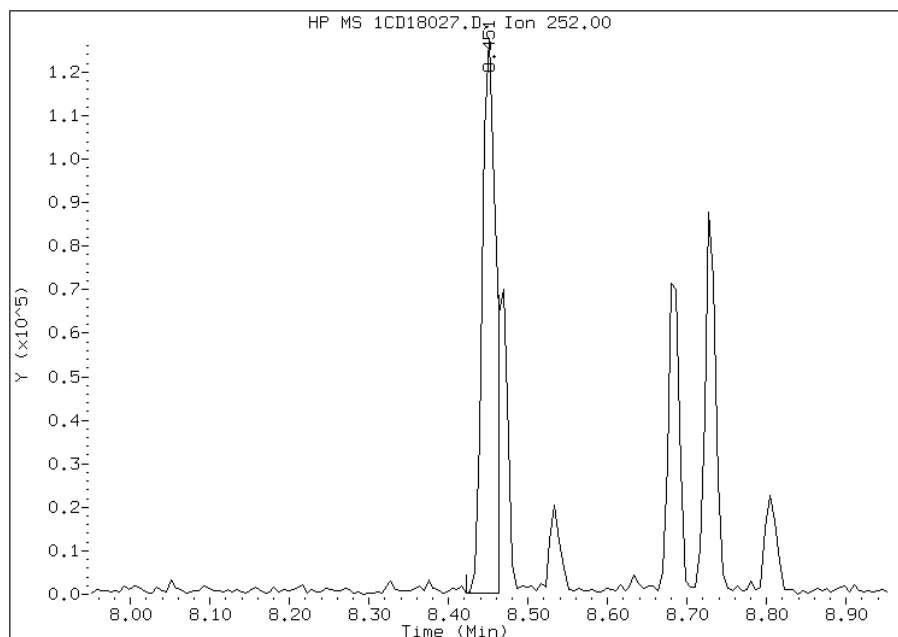
## Processing Integration Results

RT: 8.45  
Response: 192325  
Amount: 22  
Conc: 2243



## Manual Integration Results

RT: 8.45  
Response: 152396  
Amount: 18  
Conc: 1777



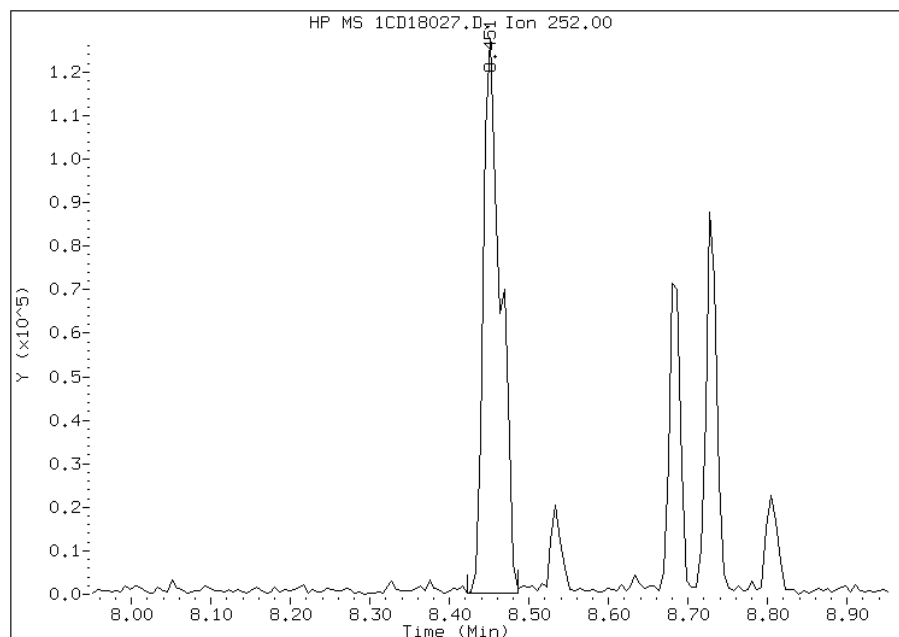
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:24  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18027.D  
Inj. Date and Time: 18-APR-2013 19:20  
Instrument ID: BSMC5973.i  
Client ID: FM0252B-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

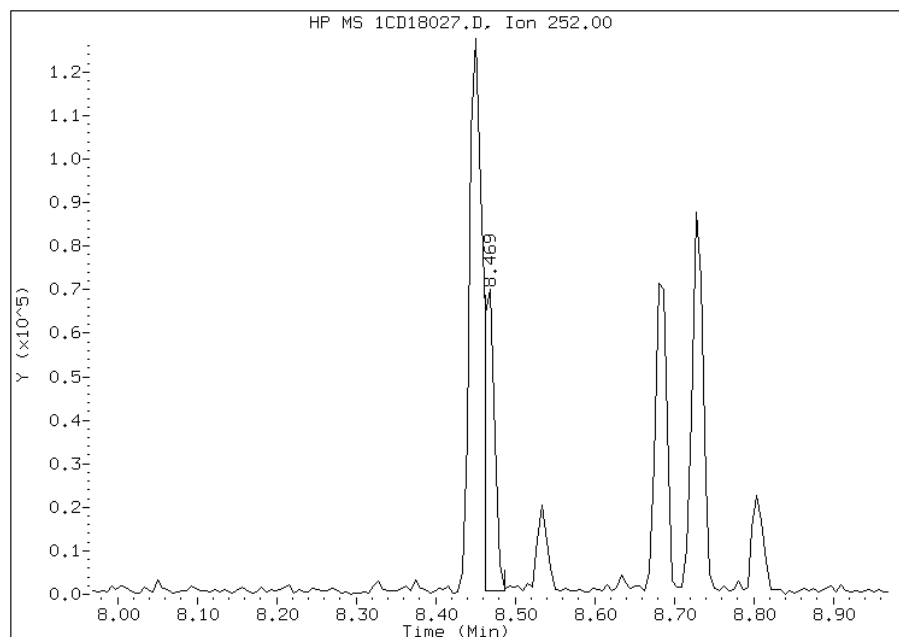
## Processing Integration Results

RT: 8.45  
Response: 192325  
Amount: 20  
Conc: 1982



## Manual Integration Results

RT: 8.47  
Response: 61673  
Amount: 6  
Conc: 636



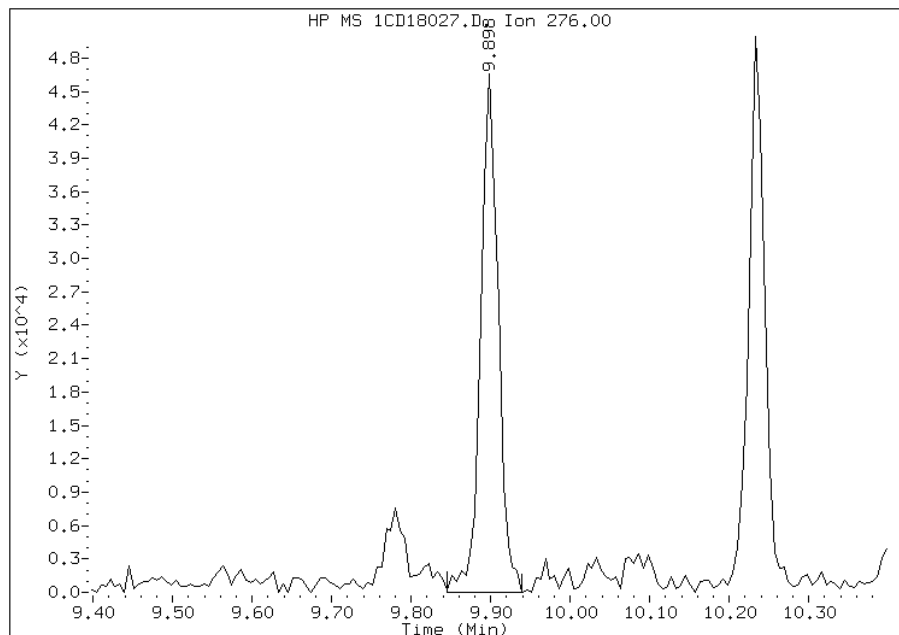
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:24  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18027.D  
Inj. Date and Time: 18-APR-2013 19:20  
Instrument ID: BSMC5973.i  
Client ID: FM0252B-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

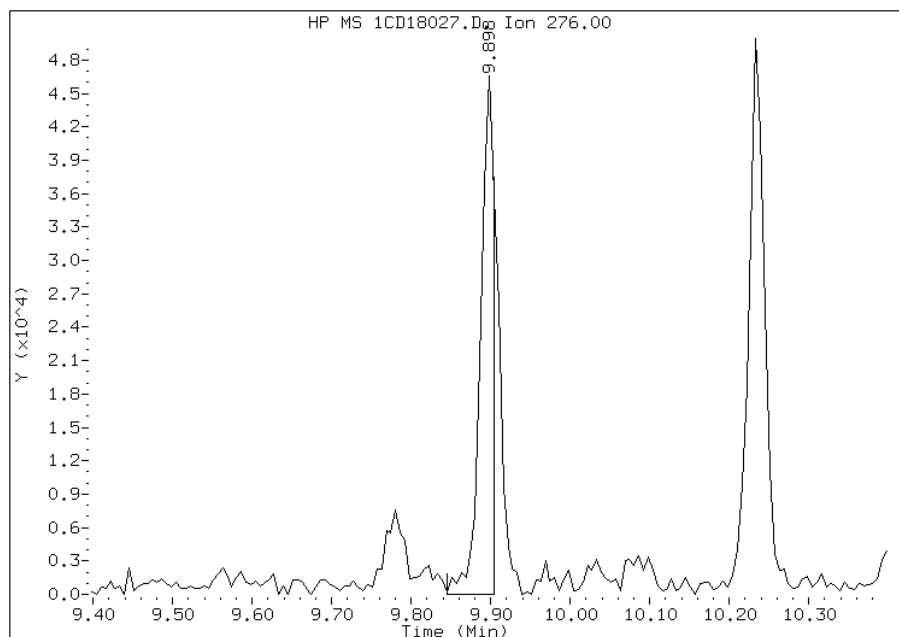
## Processing Integration Results

RT: 9.90  
Response: 70941  
Amount: 9  
Conc: 870



## Manual Integration Results

RT: 9.90  
Response: 55306  
Amount: 7  
Conc: 693



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:24  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0351A-CS Lab Sample ID: 680-89220-27  
 Matrix: Solid Lab File ID: 1CD18028.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 12:35  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.37(g) Date Analyzed: 04/18/2013 19:39  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 34.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	52	J	150	30
208-96-8	Acenaphthylene	20	J	59	7.4
120-12-7	Anthracene	26		12	6.2
56-55-3	Benzo[a]anthracene	190		12	5.8
50-32-8	Benzo[a]pyrene	180		15	7.7
205-99-2	Benzo[b]fluoranthene	290		18	9.1
191-24-2	Benzo[g,h,i]perylene	130		30	6.5
207-08-9	Benzo[k]fluoranthene	120		12	5.4
218-01-9	Chrysene	210		13	6.7
53-70-3	Dibenz(a,h)anthracene	94		30	6.1
206-44-0	Fluoranthene	380		30	5.9
86-73-7	Fluorene	13	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	170		30	11
90-12-0	1-Methylnaphthalene	13	J	59	6.5
91-57-6	2-Methylnaphthalene	48	J	59	11
91-20-3	Naphthalene	42	J	59	6.5
85-01-8	Phenanthrene	150		12	5.8
129-00-0	Pyrene	300		30	5.5

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



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18028.D  
 Lab Smp Id: 680-89220-A-27-A Client Smp ID: FM0351A-CS  
 Inj Date : 18-APR-2013 19:39  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-27-a  
 Misc Info : 680-89220-A-27-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	34.341	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	263442	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	178455	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	331155	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	34459	6.97345	691.0051
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	349461	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	341369	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	3025	0.42479	42.0923
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	1014	0.48562	48.1207(Q)
4 1-Methylnaphthalene	142		4.162	4.163	(1.136)	603	0.13256	13.1357(Q)
5 Acenaphthylene	152		4.662	4.663	(0.981)	1519	0.20088	19.9051(Q)
7 Acenaphthene	154		4.751	4.769	(1.000)	2398	0.52622	52.1431(Q)
9 Fluorene	166		5.092	5.086	(1.072)	772	0.13312	13.1911(Q)
11 Phenanthrene	178		5.709	5.704	(1.003)	14937	1.54254	152.8515
12 Anthracene	178		5.745	5.739	(1.009)	2548	0.26504	26.2626

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851 (1.028)		2080	0.23230	23.0191
15 Fluoranthene	202	6.539	6.539 (1.149)		41136	3.82919	379.4377
16 Pyrene	202	6.709	6.704 (0.880)		30361	3.05387	302.6109
17 Benzo(a)anthracene	228	7.621	7.615 (0.999)		18828	1.90527	188.7946
19 Chrysene	228	7.645	7.645 (1.002)		21187	2.16728	214.7578
20 Benzo(b)fluoranthene	252	8.450	8.445 (0.962)		25110	2.91228	288.5803
21 Benzo(k)fluoranthene	252	8.468	8.468 (0.964)		12117	1.24196	123.0664
22 Benzo(a)pyrene	252	8.733	8.727 (0.995)		15856	1.77907	176.2890
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.898 (1.126)		9511	1.71356	169.7979(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909 (1.129)		4388	0.94900	94.0373(M)
26 Benzo(g,h,i)perylene	276	10.233	10.233 (1.165)		10759	1.28792	127.6212(M)

QC Flag Legend

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

Data File: 1CD18028.D

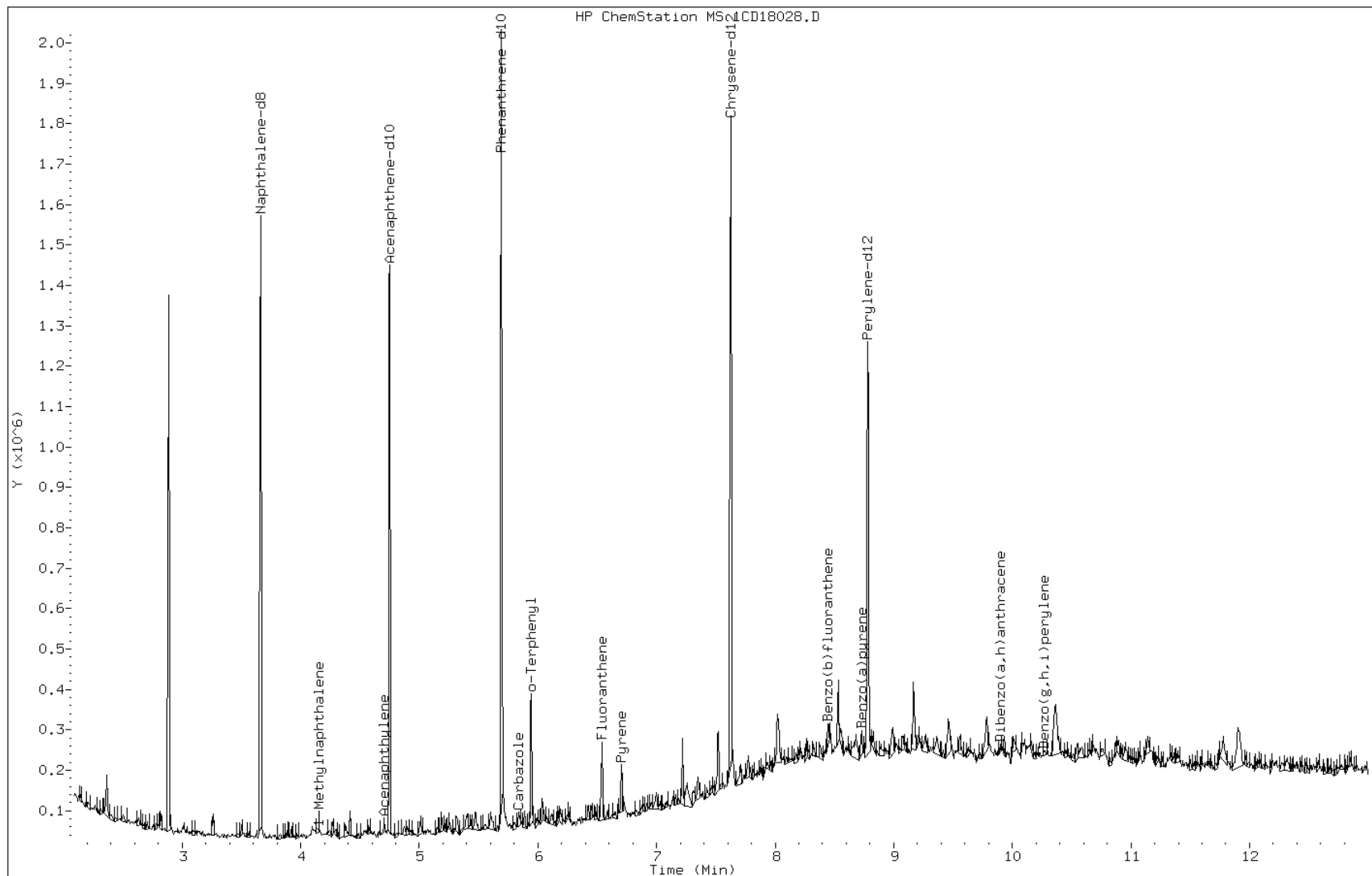
Date: 18-APR-2013 19:39

Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

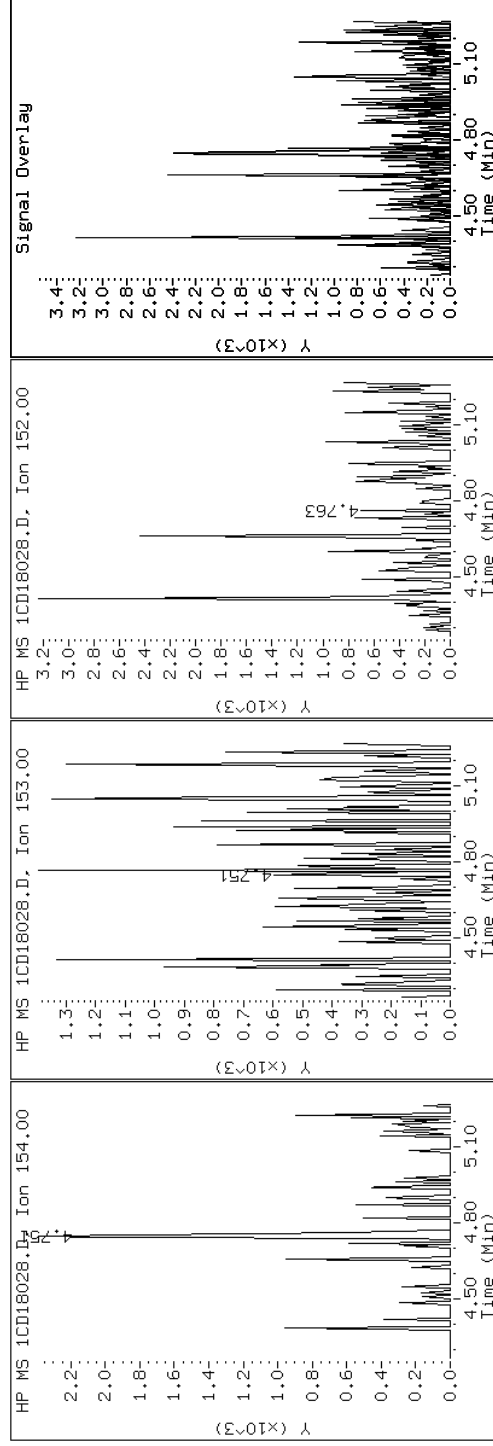
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

### 7 Acenaphthene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

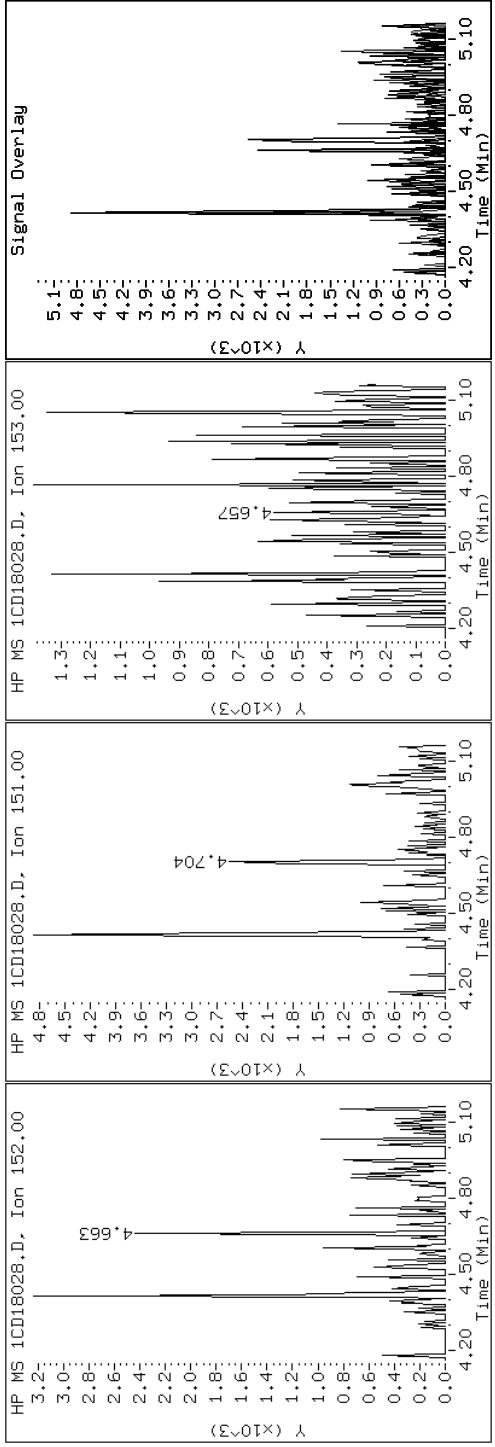
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

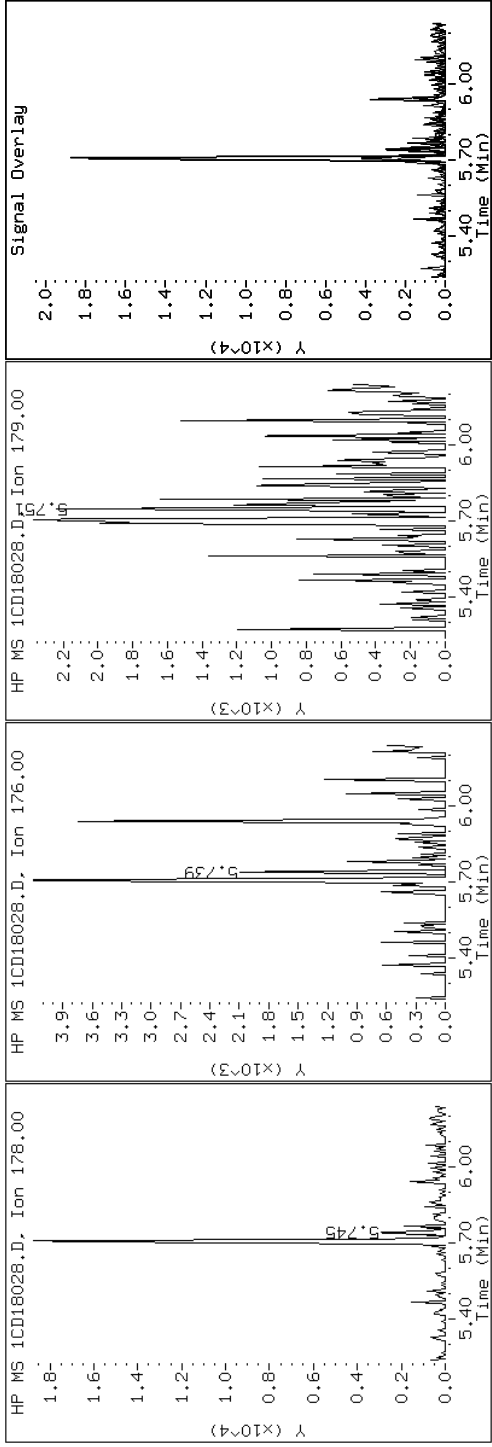
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

12 Anthracene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

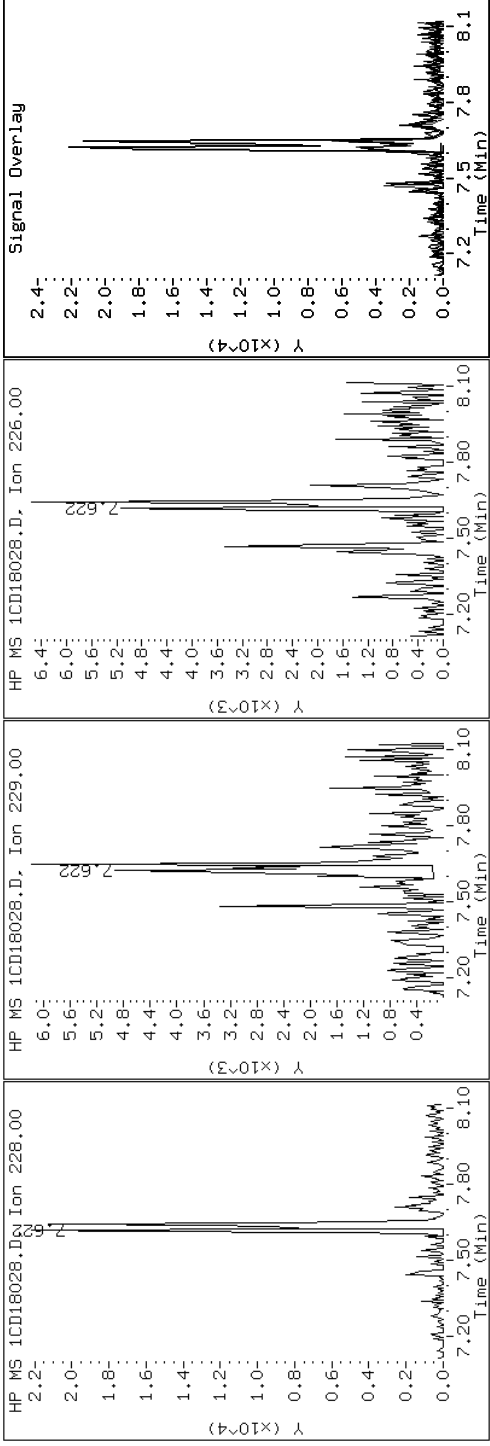
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

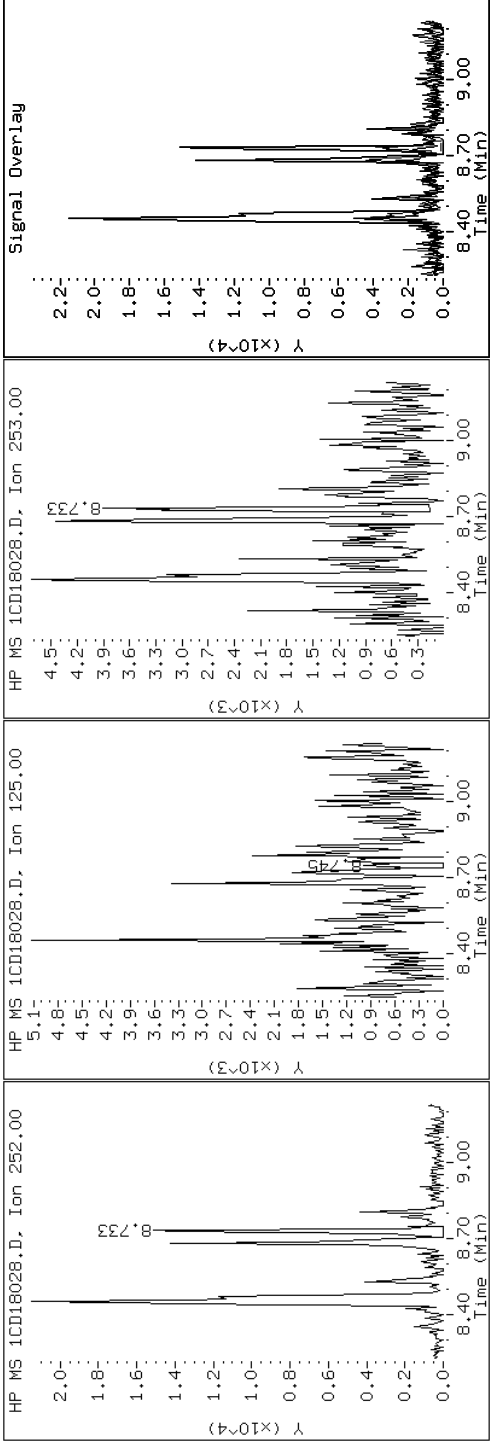
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD18028.D

Date: 18-APR-2013 19:39

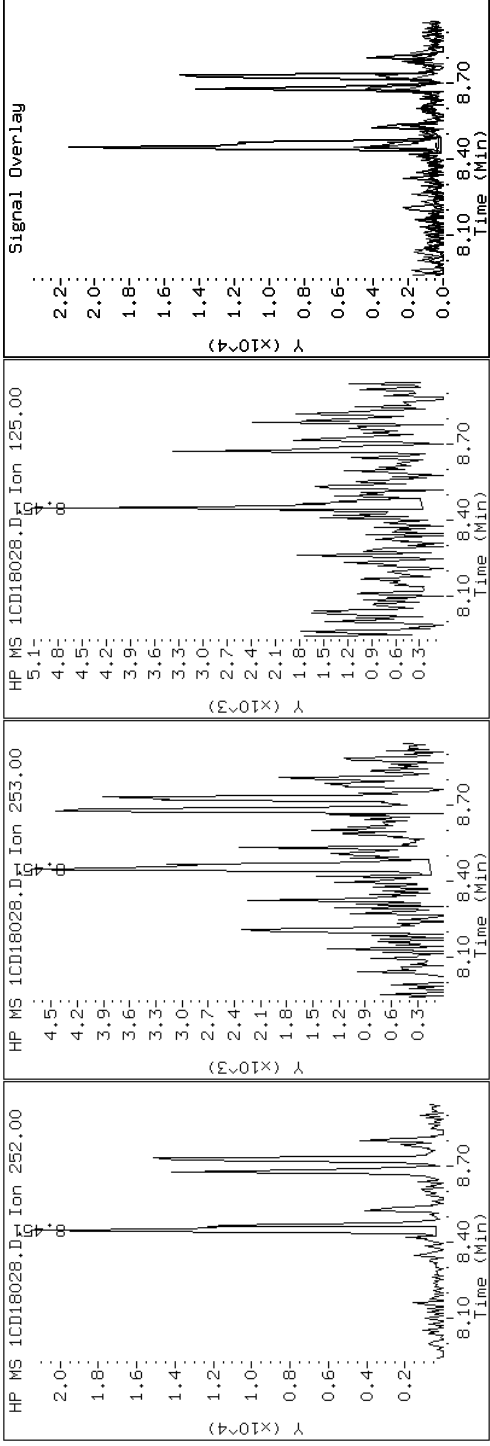
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

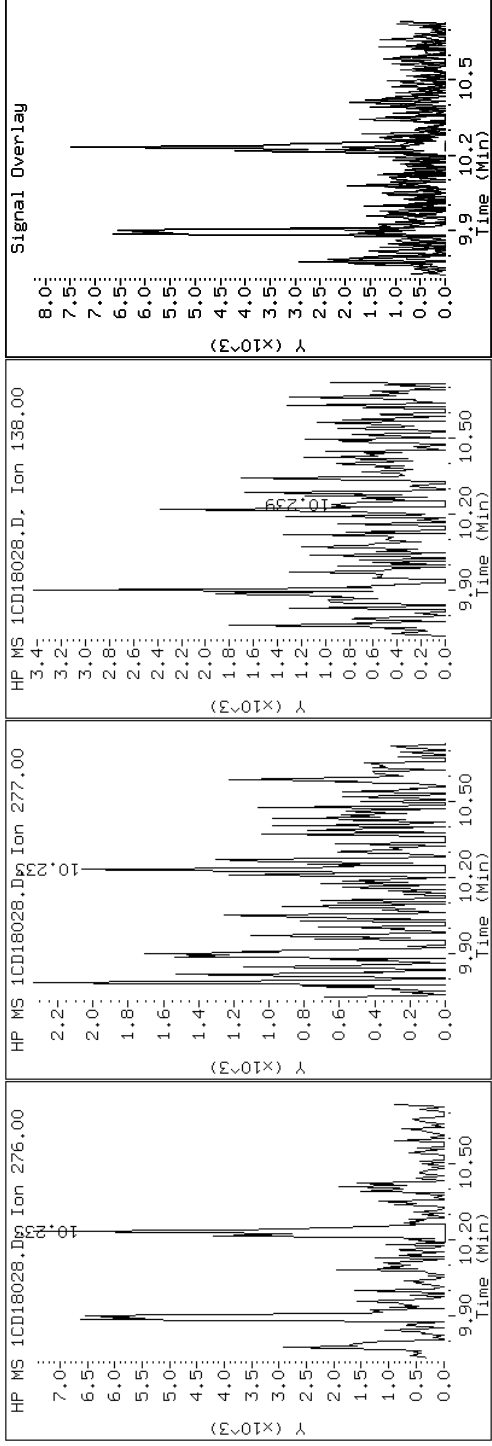
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

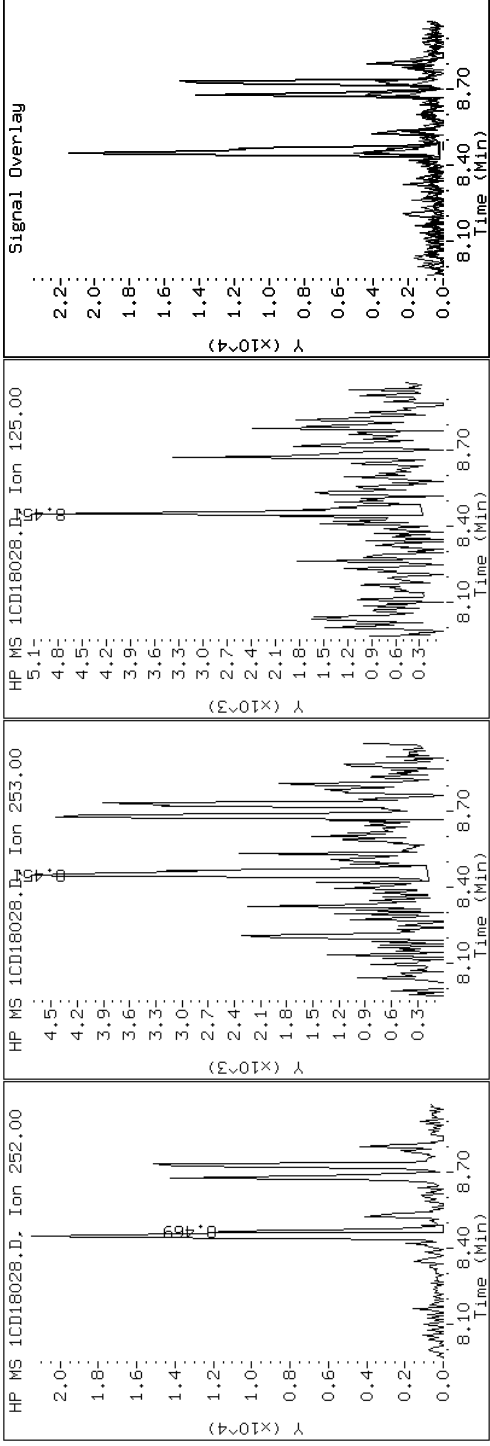
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

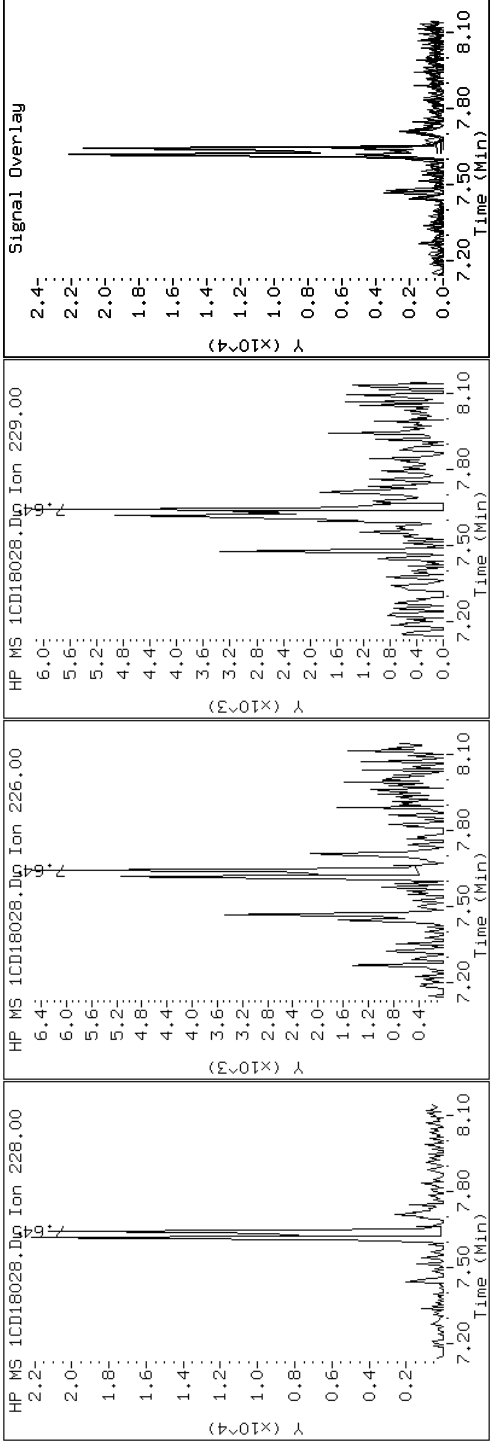
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

19 Chrysene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

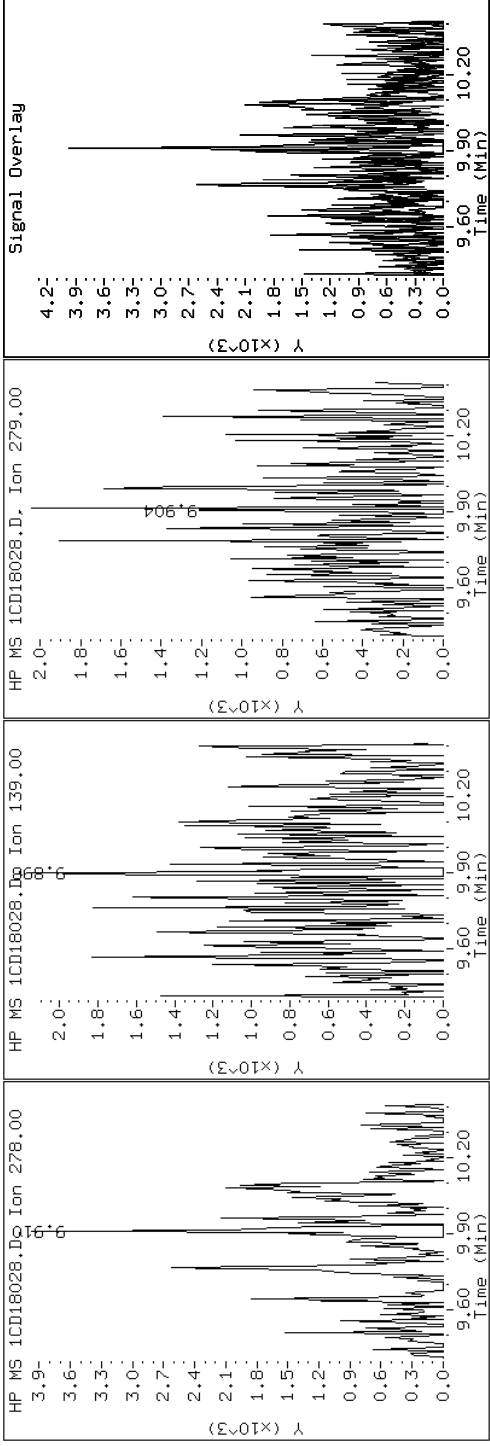
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

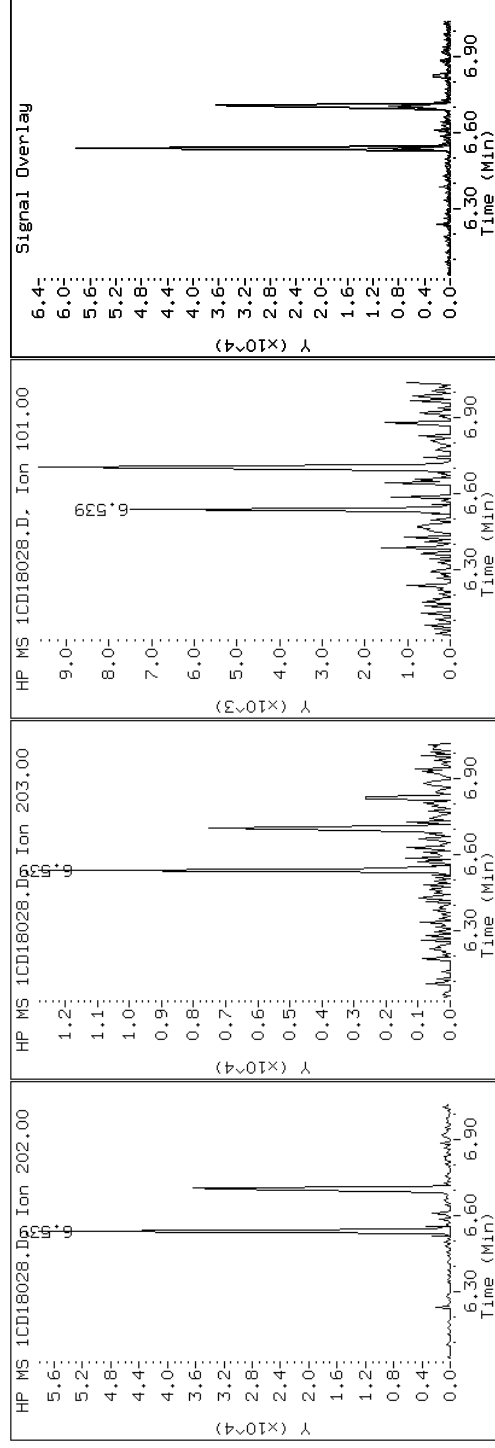
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

### 15 Fluoranthene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

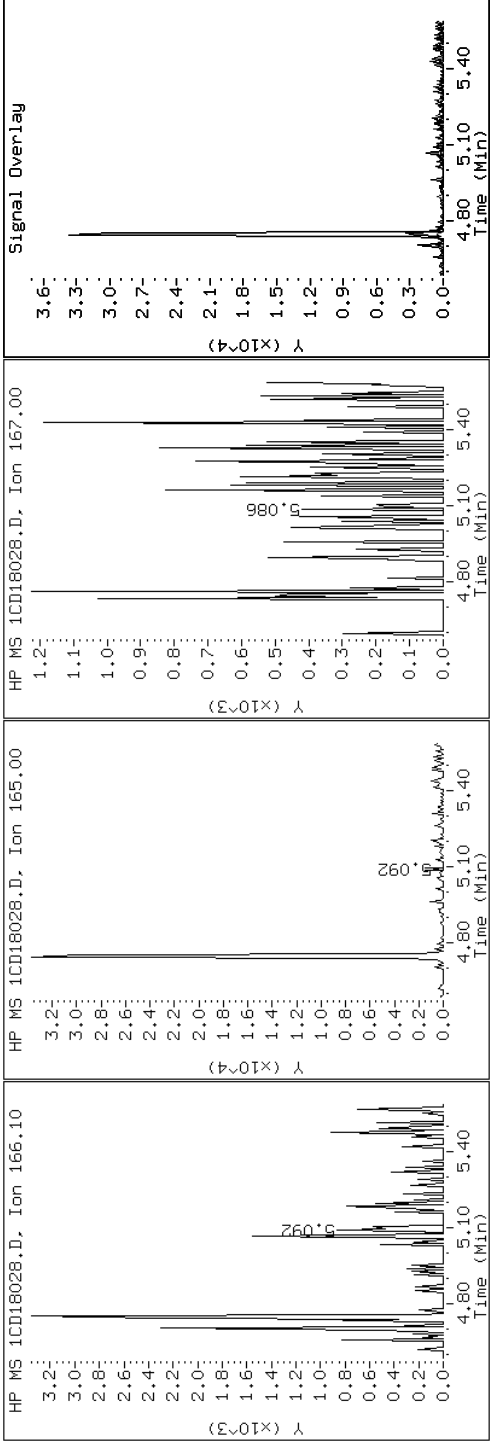
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

9 Fluorene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

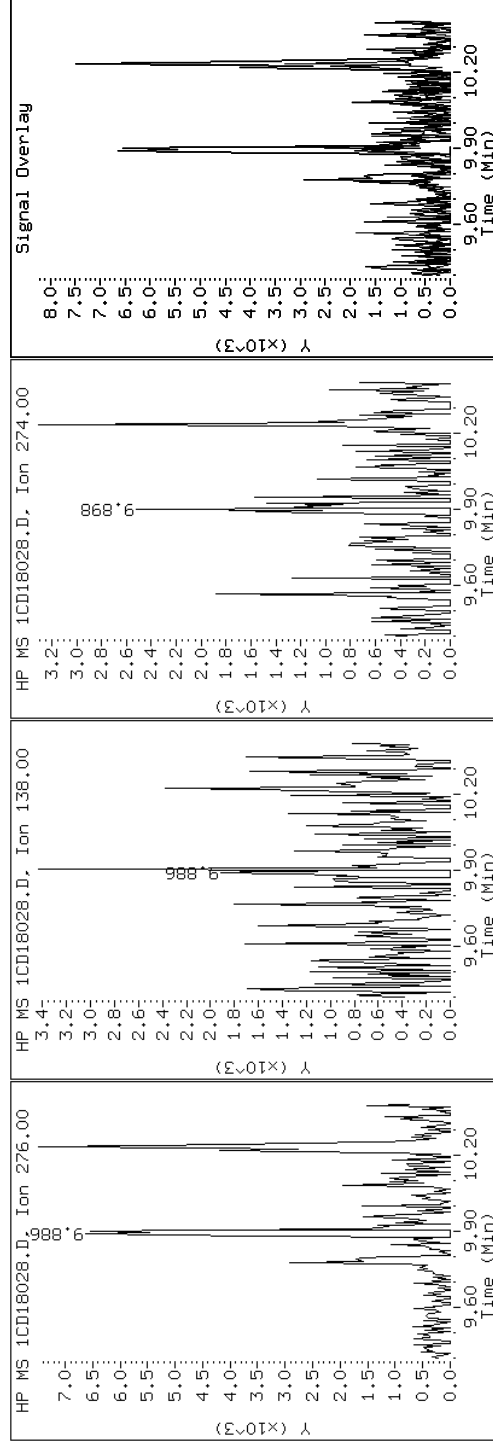
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

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





Data File: 1CD18028.D

Date: 18-APR-2013 19:39

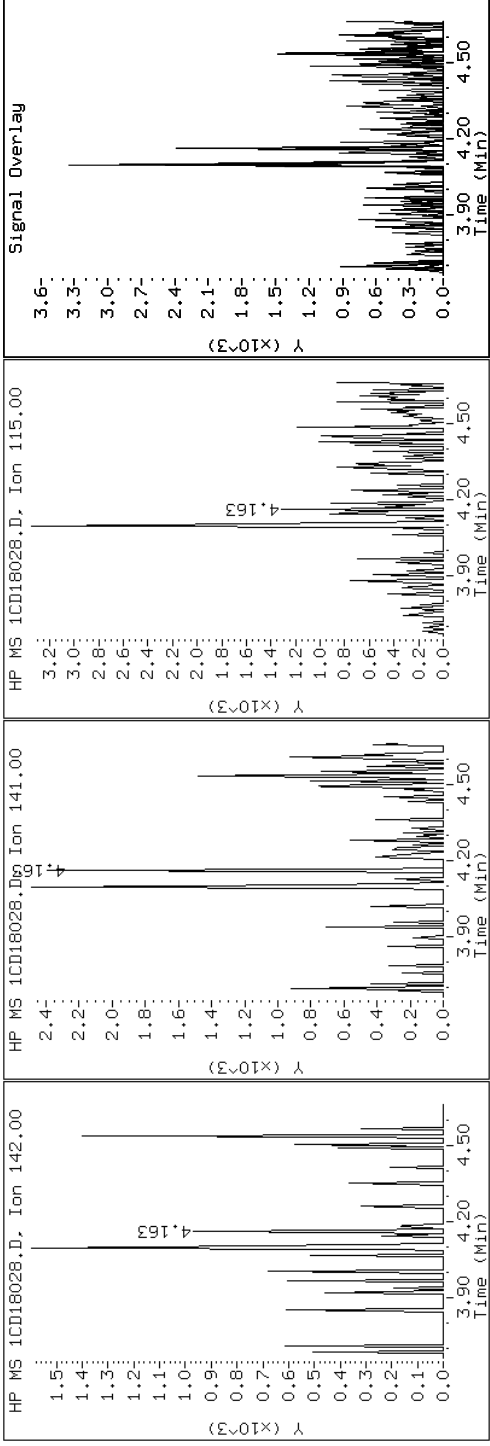
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

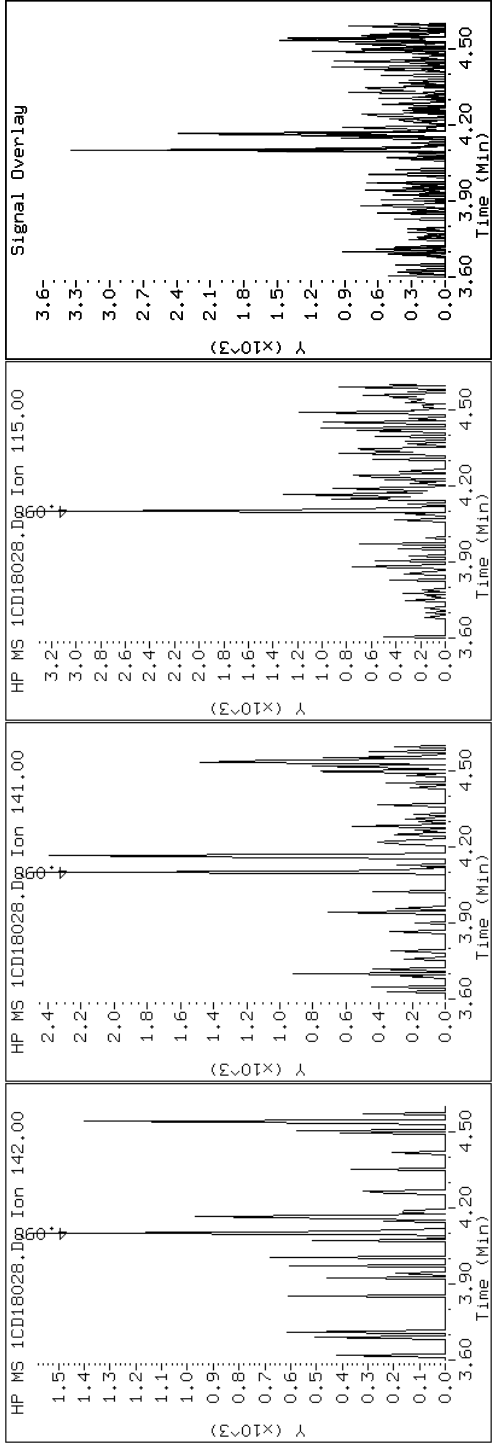
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

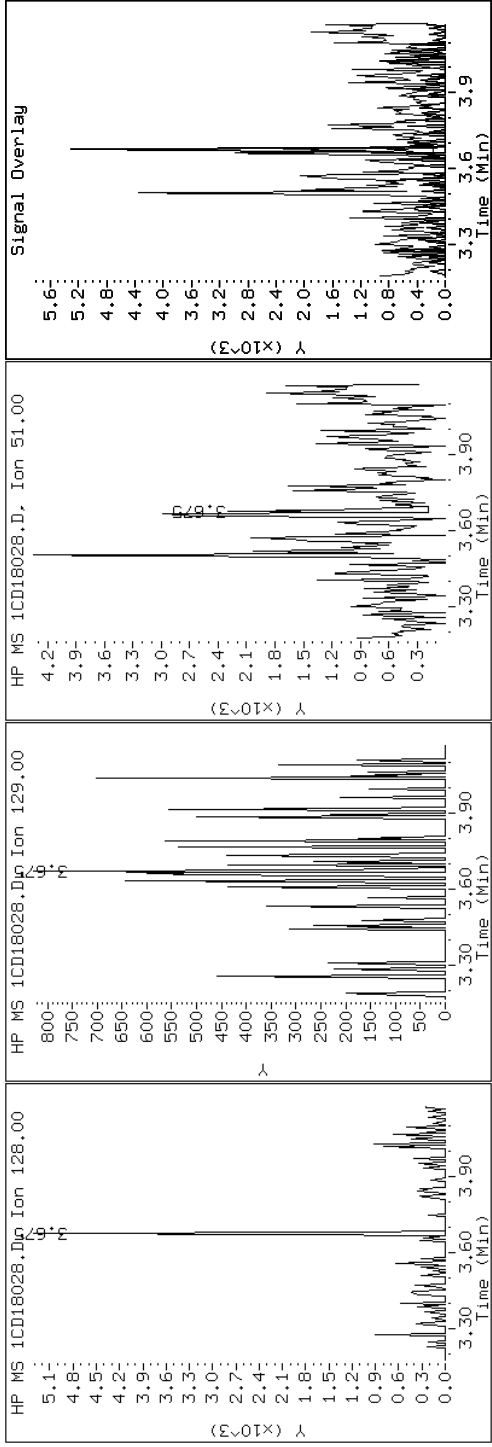
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

2 Naphthalene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

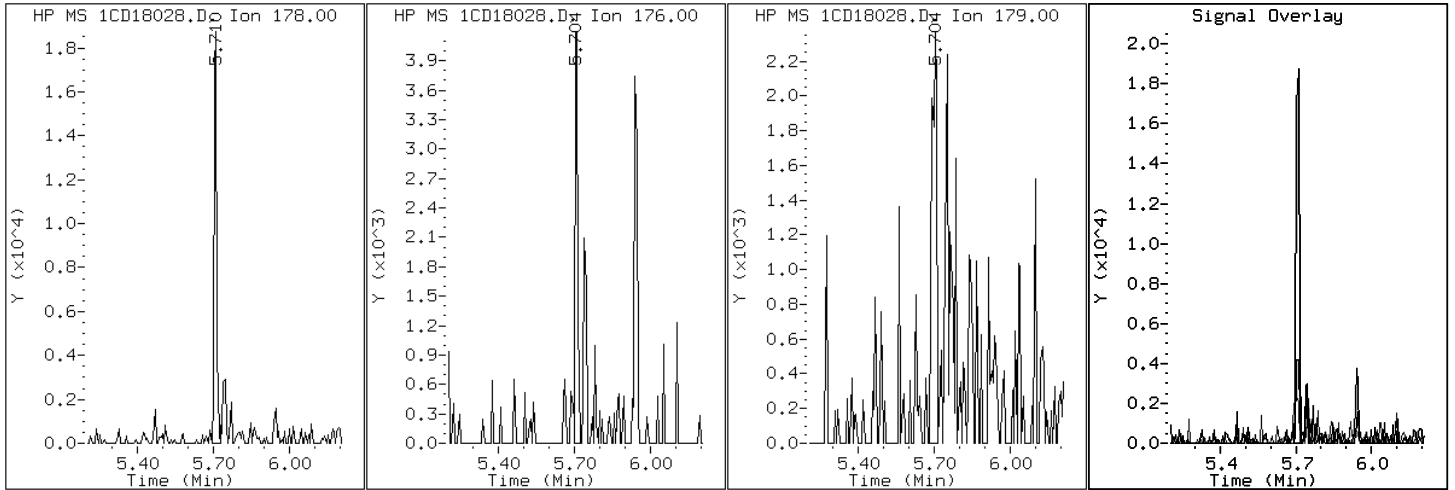
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18028.D

Date: 18-APR-2013 19:39

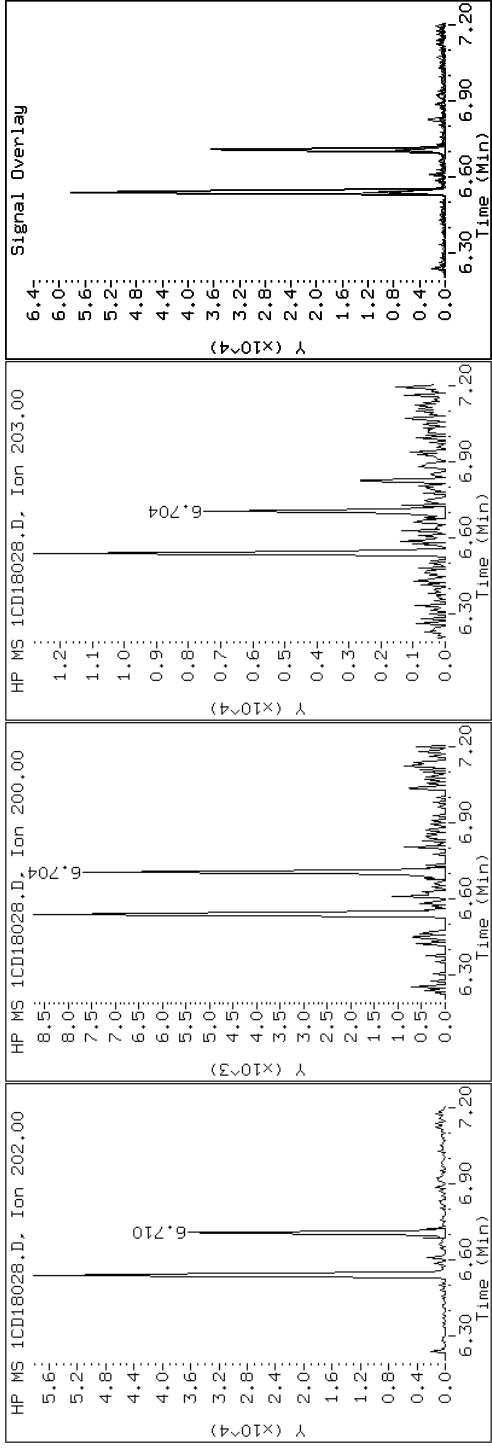
Client ID: FM0351A-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-27-a

Operator: SCC

16 Pyrene

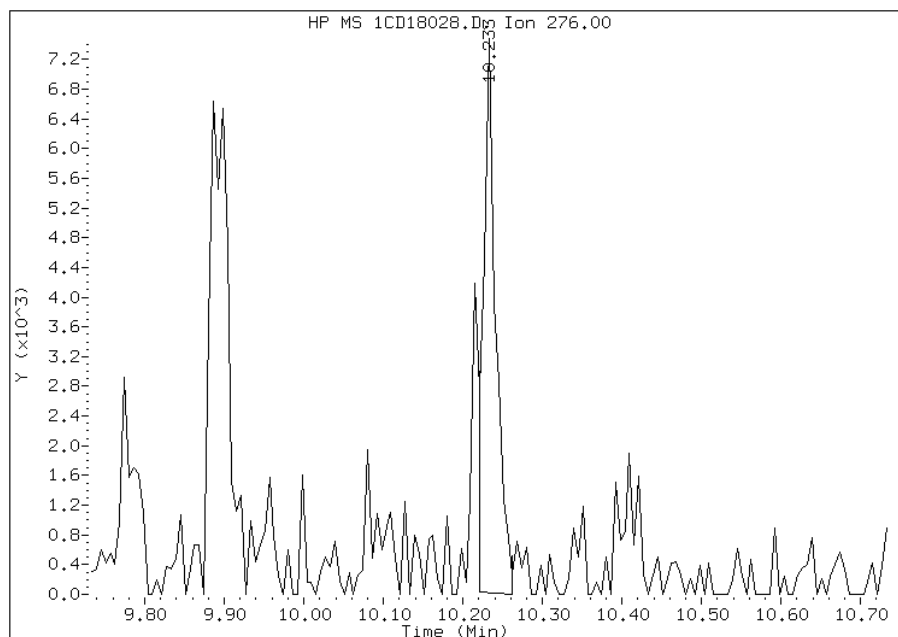


# Manual Integration Report

Data File: 1CD18028.D  
Inj. Date and Time: 18-APR-2013 19:39  
Instrument ID: BSMC5973.i  
Client ID: FM0351A-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/19/2013

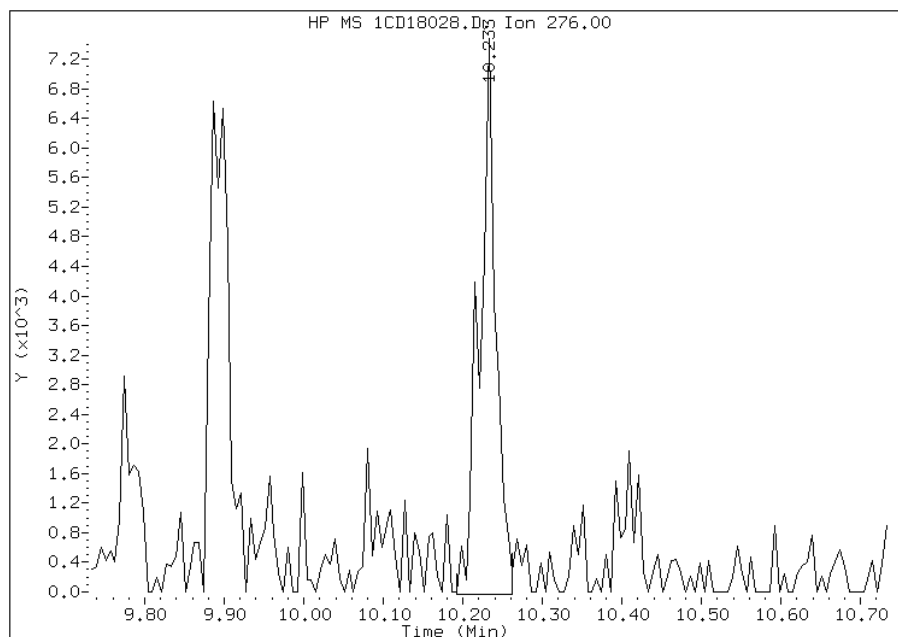
## Processing Integration Results

RT: 10.23  
Response: 8345  
Amount: 1  
Conc: 99



## Manual Integration Results

RT: 10.23  
Response: 10759  
Amount: 1  
Conc: 128



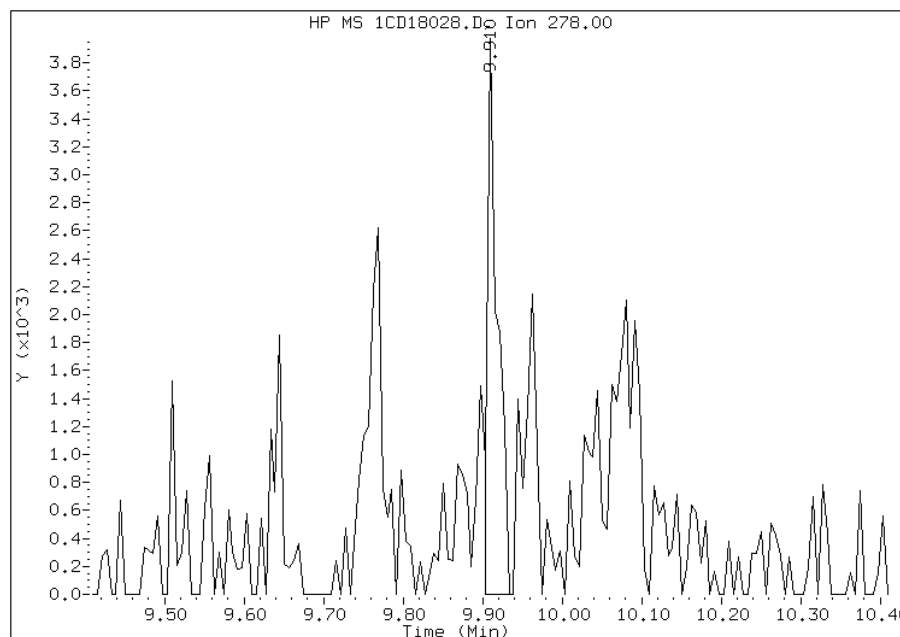
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:26  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18028.D  
Inj. Date and Time: 18-APR-2013 19:39  
Instrument ID: BSMC5973.i  
Client ID: FM0351A-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/19/2013

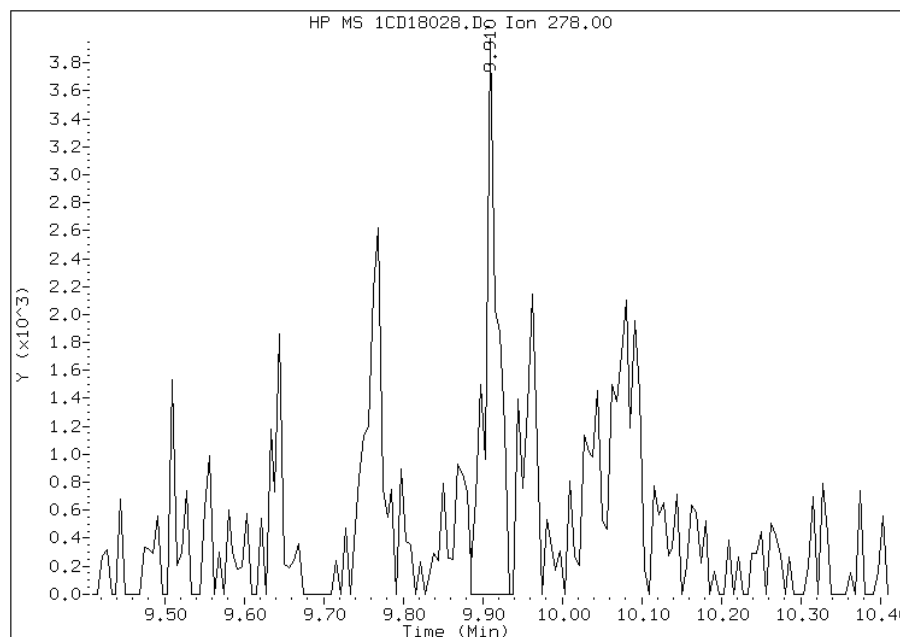
## Processing Integration Results

RT: 9.91  
Response: 3541  
Amount: 1  
Conc: 84



## Manual Integration Results

RT: 9.91  
Response: 4388  
Amount: 1  
Conc: 94



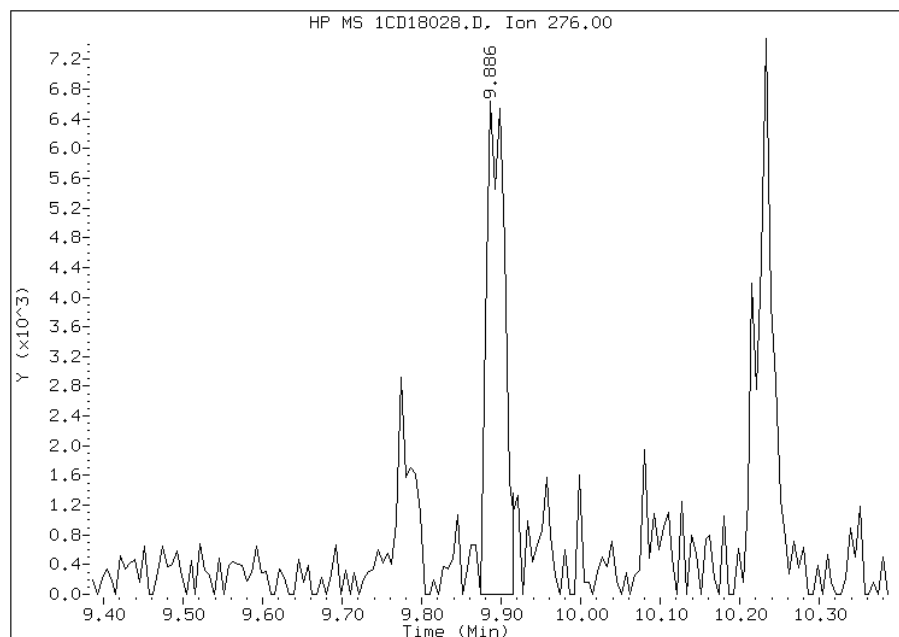
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:25  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18028.D  
Inj. Date and Time: 18-APR-2013 19:39  
Instrument ID: BSMC5973.i  
Client ID: FM0351A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

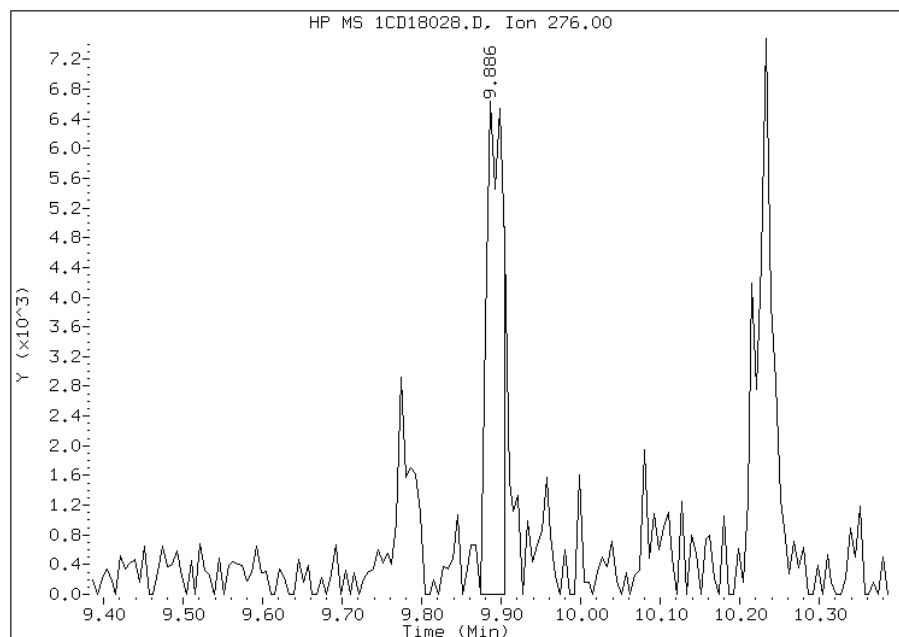
## Processing Integration Results

RT: 9.89  
Response: 10442  
Amount: 2  
Conc: 180



## Manual Integration Results

RT: 9.89  
Response: 9511  
Amount: 2  
Conc: 170



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:26  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0351B-CS Lab Sample ID: 680-89220-28  
 Matrix: Solid Lab File ID: 1CD18029.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 12:45  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 14.86(g) Date Analyzed: 04/18/2013 19:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 30.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1100		150	29
208-96-8	Acenaphthylene	640		58	7.3
120-12-7	Anthracene	3700		12	6.1
53-70-3	Dibenz (a,h) anthracene	4400		29	6.0
86-73-7	Fluorene	1300		29	6.0
90-12-0	1-Methyl naphthalene	390		58	6.4
91-57-6	2-Methyl naphthalene	370		58	10
91-20-3	Naphthalene	500		58	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18029.D  
 Lab Smp Id: 680-89220-A-28-A Client Smp ID: FM0351B-CS  
 Inj Date : 18-APR-2013 19:57  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-28-a  
 Misc Info : 680-89220-A-28-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 29  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.860	Weight Extracted
M	30.445	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	261973	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	195546	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	320259	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	42158	8.63896	835.8228
* 18 Chrysene-d12	240		7.639	7.627	(1.000)	576871	40.0000	
* 23 Perylene-d12	264		8.798	8.780	(1.000)	357884	40.0000	(H)
2 Naphthalene	128		3.674	3.674	(1.003)	36949	5.21765	504.8096
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	16717	3.80242	367.8850
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	18389	4.06529	393.3182
5 Acenaphthylene	152		4.663	4.663	(0.981)	55199	6.66171	644.5228
7 Acenaphthene	154		4.769	4.769	(1.004)	54905	10.9953	1063.7980
9 Fluorene	166		5.086	5.086	(1.071)	85794	13.5011	1306.2357
11 Phenanthrene	178		5.716	5.704	(1.004)	3089386	365.962	35406.9822(A)
12 Anthracene	178		5.745	5.739	(1.009)	353642	38.0364	3680.0335

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851 (1.028)		238695	27.5655	2666.9718
15 Fluoranthene	202	6.551	6.539 (1.151)		7823490	753.036	72856.4614(A)
16 Pyrene	202	6.721	6.704 (0.880)		6224283	379.266	36694.1588(A)
17 Benzo(a)anthracene	228	7.627	7.615 (0.998)		3030227	185.758	17972.1391(A)
19 Chrysene	228	7.662	7.645 (1.003)		3404588	210.975	20411.8942(A)
20 Benzo(b)fluoranthene	252	8.474	8.445 (0.963)		4602994	509.224	49267.5810(AMH)
21 Benzo(k)fluoranthene	252	8.486	8.468 (0.965)		1259272	123.115	11911.4597(AQM)
22 Benzo(a)pyrene	252	8.757	8.727 (0.995)		2190581	234.444	22682.5561(AH)
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.898 (1.130)		1232598	133.421	12908.5574(AMH)
25 Dibenzo(a,h)anthracene	278	9.945	9.909 (1.130)		409255	45.1044	4363.8657
26 Benzo(g,h,i)perylene	276	10.280	10.233 (1.168)		1120849	127.981	12382.2389(AH)

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.
- H - Operator selected an alternate compound hit.

Data File: 1CD18029.D

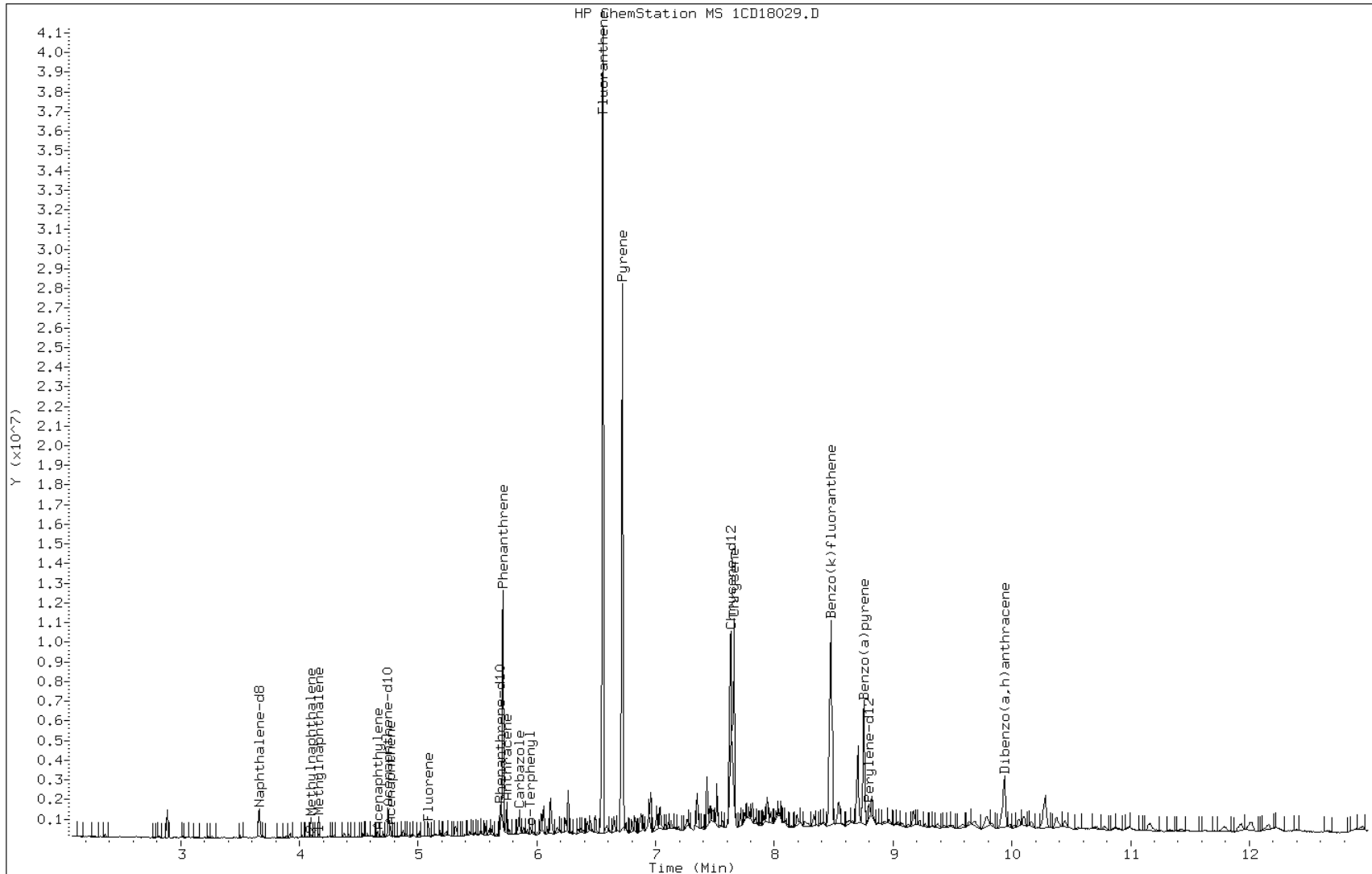
Date: 18-APR-2013 19:57

Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC



Data File: 1CD18029.D

Date: 18-APR-2013 19:57

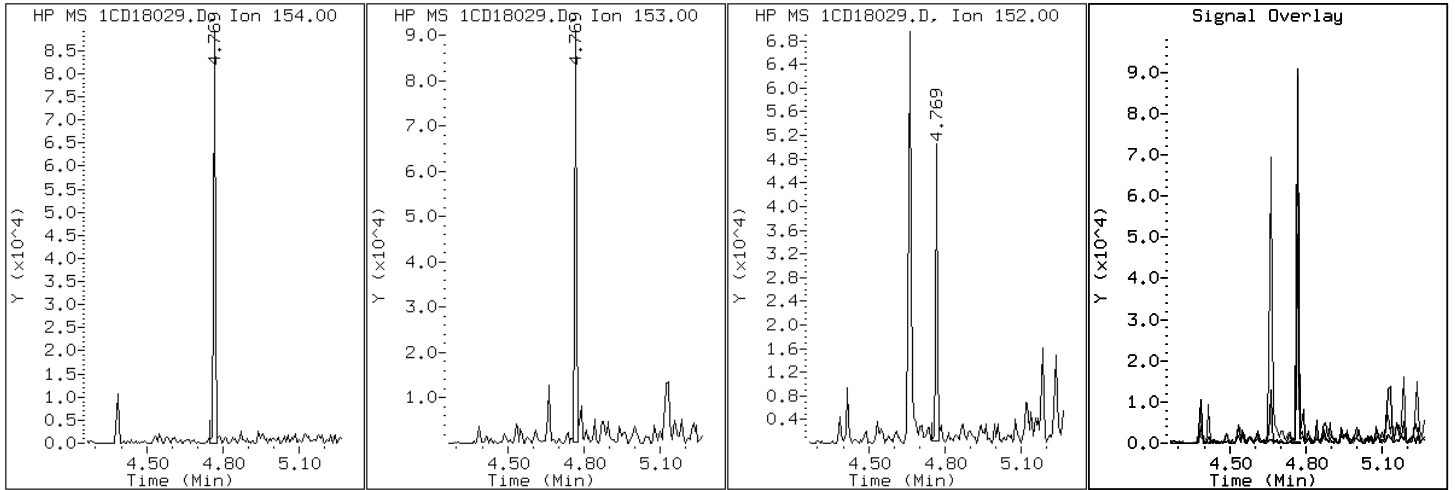
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

7 Acenaphthene



Data File: 1CD18029.D

Date: 18-APR-2013 19:57

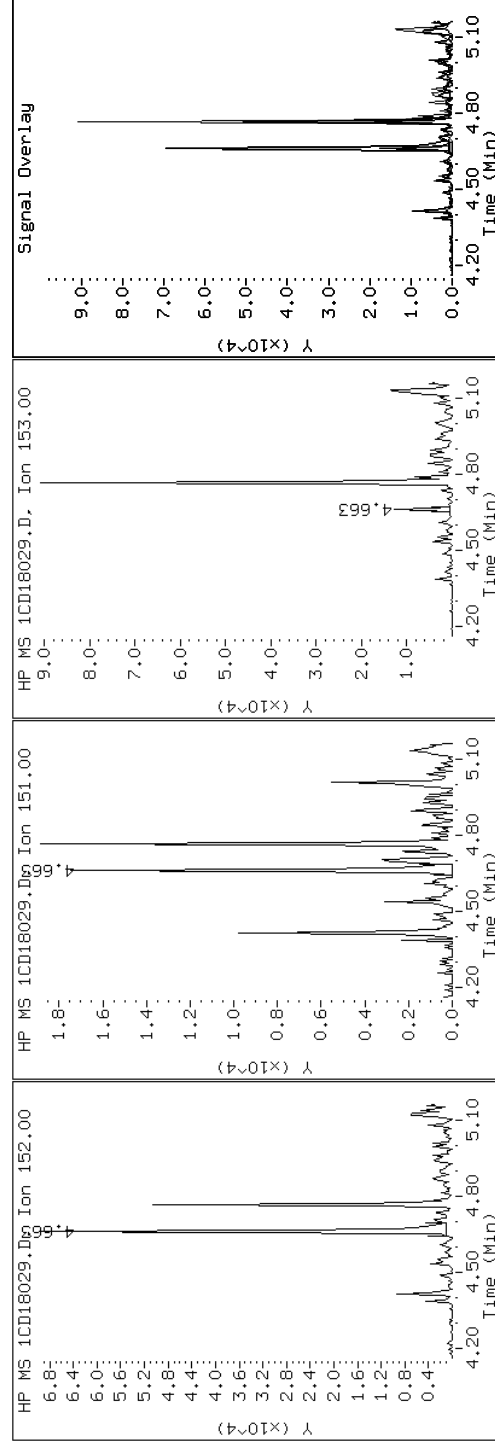
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD18029.D

Date: 18-APR-2013 19:57

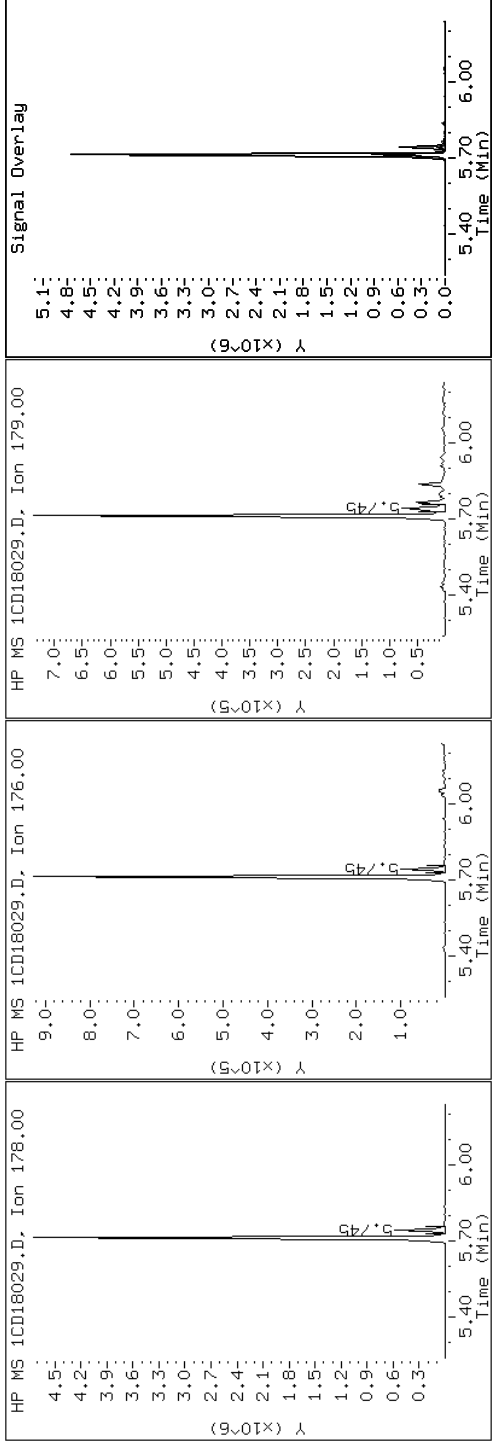
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

12 Anthracene



Data File: 1CD18029.D

Date: 18-APR-2013 19:57

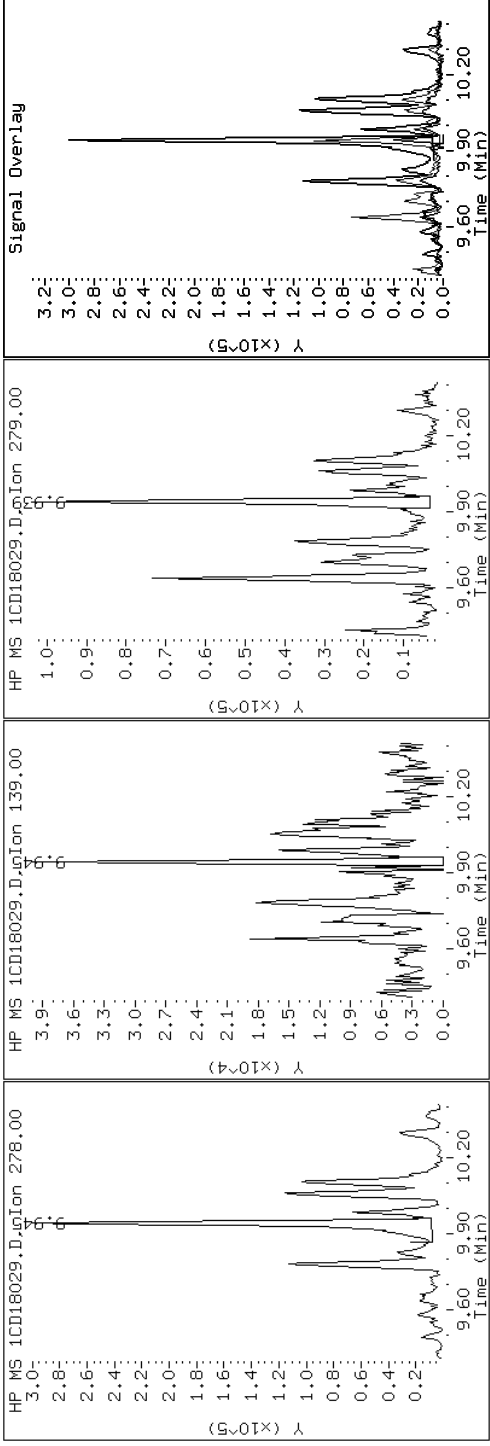
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

25 Dibenzo(a,h)anthracene





Data File: 1CD18029.D

Date: 18-APR-2013 19:57

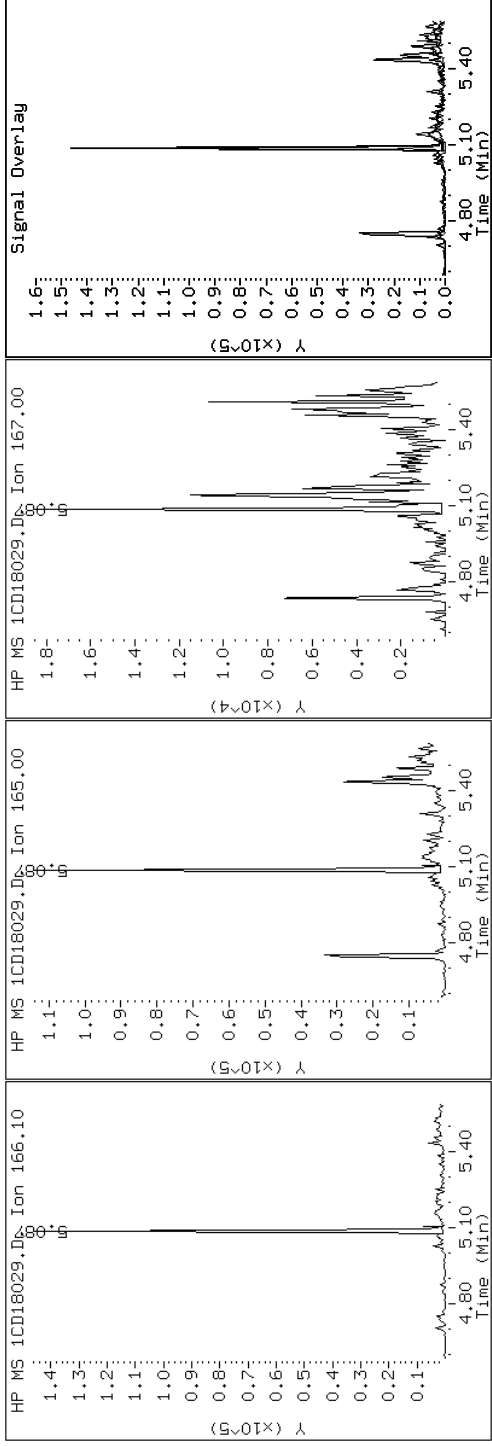
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

9 Fluorene



Data File: 1CD18029.D

Date: 18-APR-2013 19:57

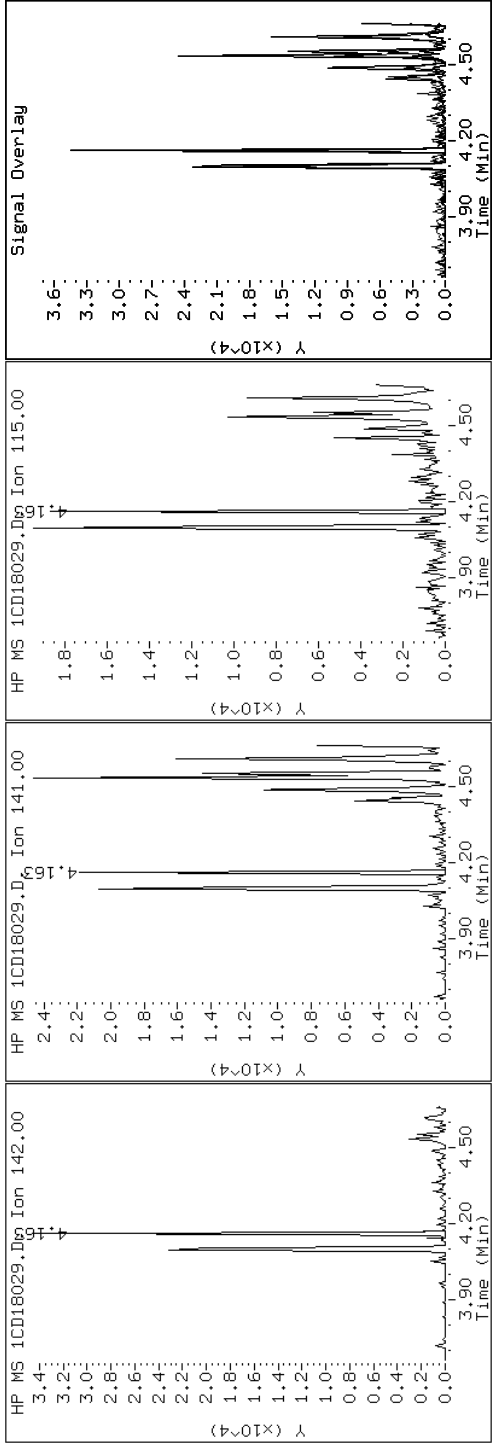
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18029.D

Date: 18-APR-2013 19:57

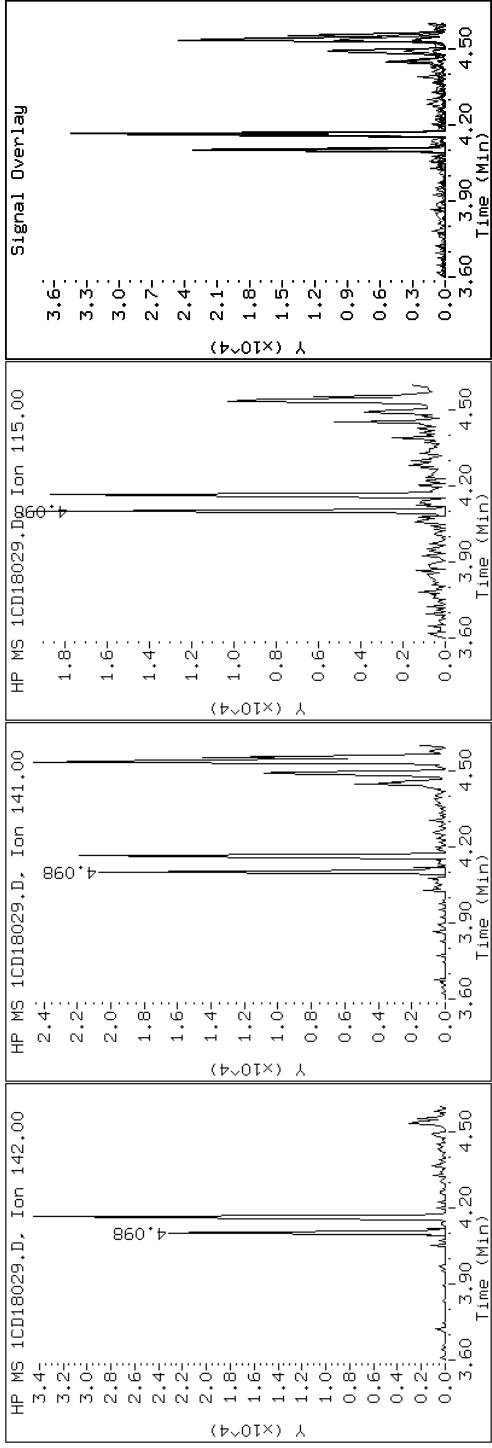
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18029.D

Date: 18-APR-2013 19:57

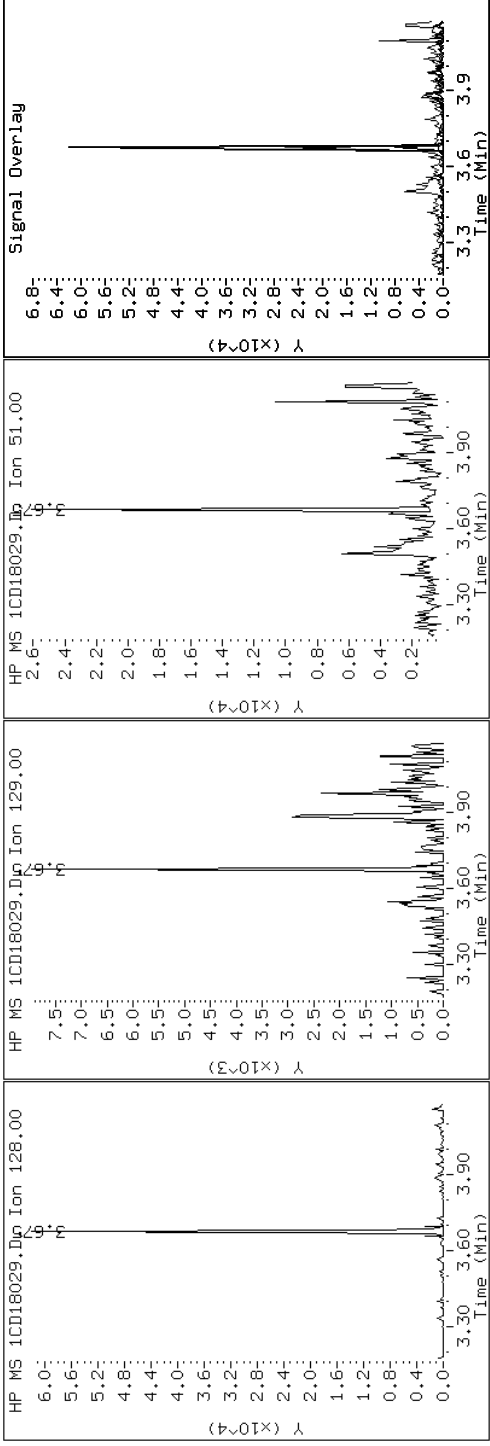
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-28-a

Operator: SCC

2 Naphthalene



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0351B-CS DL Lab Sample ID: 680-89220-28 DL  
 Matrix: Solid Lab File ID: 1CD19036.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 12:45  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 14.86(g) Date Analyzed: 04/19/2013 21:50  
 Con. Extract Vol.: 1(mL) Dilution Factor: 20  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 30.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136655 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo[a]anthracene	19000		230	110
50-32-8	Benzo[a]pyrene	18000		300	150
205-99-2	Benzo[b]fluoranthene	27000		350	180
191-24-2	Benzo[g,h,i]perylene	11000		580	130
207-08-9	Benzo[k]fluoranthene	11000		230	100
218-01-9	Chrysene	17000		260	130
206-44-0	Fluoranthene	43000		580	120
193-39-5	Indeno[1,2,3-cd]pyrene	10000		580	210
85-01-8	Phenanthrene	20000		230	110
129-00-0	Pyrene	32000		580	110

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19036.D  
 Lab Smp Id: 680-89220-A-28-A Client Smp ID: FM0351B-CS  
 Inj Date : 19-APR-2013 21:50  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-A-28-A  
 Misc Info : 680-89220-A-28-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m  
 Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 36  
 Dil Factor: 20.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.860	Weight Extracted
M	30.445	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.657	3.657	(1.000)	242665	40.0000	
* 6 Acenaphthene-d10	164		4.745	4.739	(1.000)	164805	40.0000	
* 10 Phenanthrene-d10	188		5.686	5.686	(1.000)	271091	40.0000	
\$ 14 o-Terphenyl	230		5.939	5.933	(1.044)	1844	1.10042	2129.3281(QR)
* 18 Chrysene-d12	240		7.621	7.615	(1.000)	310398	40.0000	
* 23 Perylene-d12	264		8.780	8.768	(1.000)	289393	40.0000	
2 Naphthalene	128		3.668	3.669	(1.003)	2172	0.33112	640.7139(Q)
3 2-Methylnaphthalene	142		4.098	4.092	(1.121)	959	0.49131	950.6972(Q)
4 1-Methylnaphthalene	142		4.157	4.157	(1.137)	1261	0.30095	582.3451(Q)
5 Acenaphthylene	152		4.657	4.657	(0.981)	3537	0.50649	980.0555
7 Acenaphthene	154		4.763	4.763	(1.004)	2774	0.65914	1275.4466
9 Fluorene	166		5.086	5.080	(1.072)	3930	0.73381	1419.9261
11 Phenanthrene	178		5.704	5.698	(1.003)	80793	10.1769	19692.4589
12 Anthracene	178		5.739	5.733	(1.009)	19335	2.45678	4753.8816

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.845	(1.029)	13118	1.78968	3463.0517
15 Fluoranthene	202	6.539	6.533	(1.150)	195633	22.2456	43045.3155
16 Pyrene	202	6.704	6.698	(0.880)	145930	16.5257	31977.3136
17 Benzo(a)anthracene	228	7.615	7.610	(0.999)	86565	9.86221	19083.4429
19 Chrysene	228	7.639	7.639	(1.002)	78354	9.02375	17461.0238
20 Benzo(b)fluoranthene	252	8.445	8.439	(0.962)	102838	14.0694	27224.4246(M)
21 Benzo(k)fluoranthene	252	8.462	8.457	(0.964)	47259	5.71389	11056.4123(QMH)
22 Benzo(a)pyrene	252	8.727	8.715	(0.994)	68868	9.11490	17637.3935
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.880	(1.127)	34261	5.20369	10069.1757(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.892	(1.128)	11495	1.99820	3866.5399
26 Benzo(g,h,i)perylene	276	10.227	10.209	(1.165)	40246	5.68298	10996.6157

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1CD19036.D

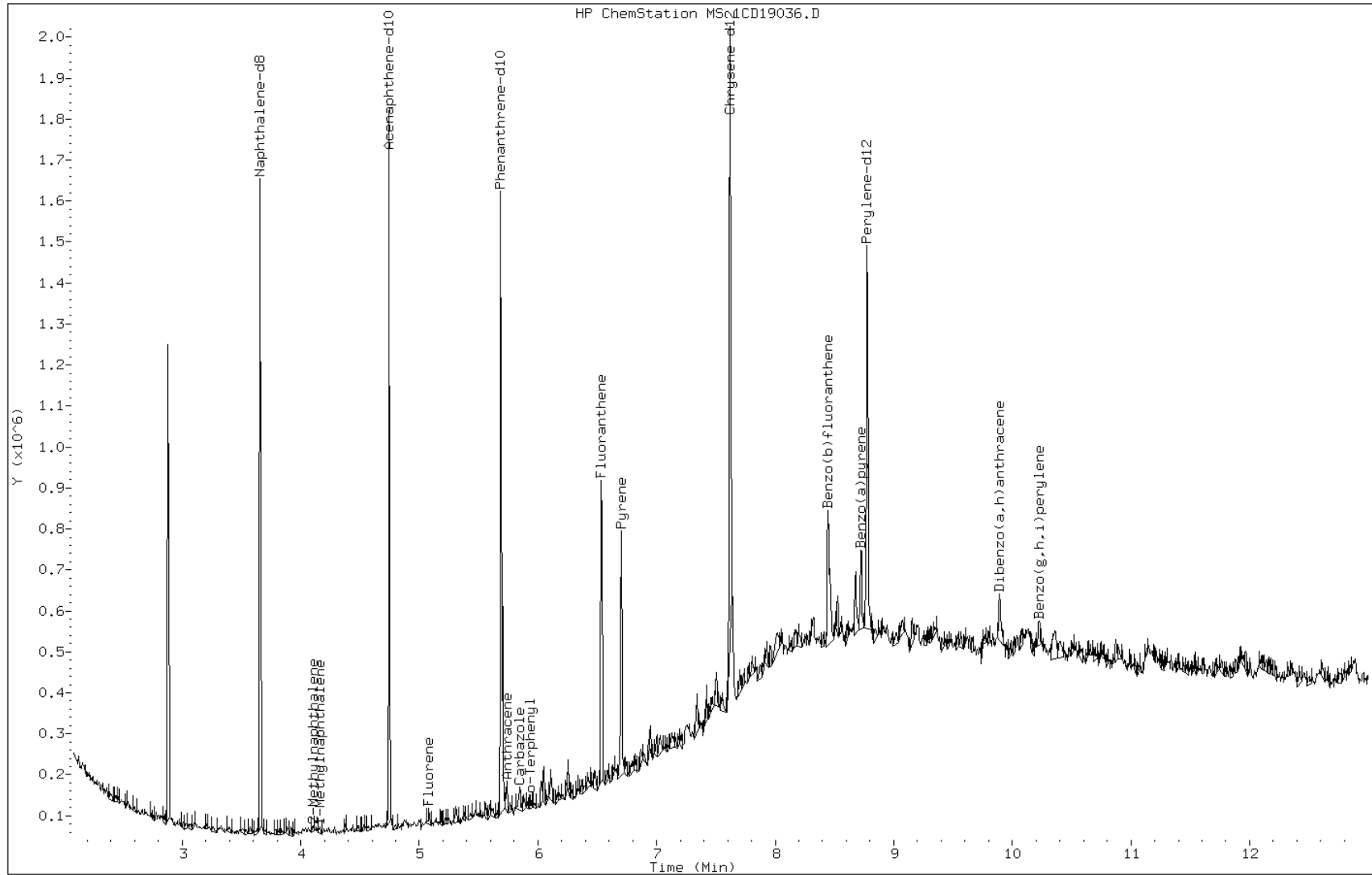
Date: 19-APR-2013 21:50

Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC





Data File: 1CD19036.D

Date: 19-APR-2013 21:50

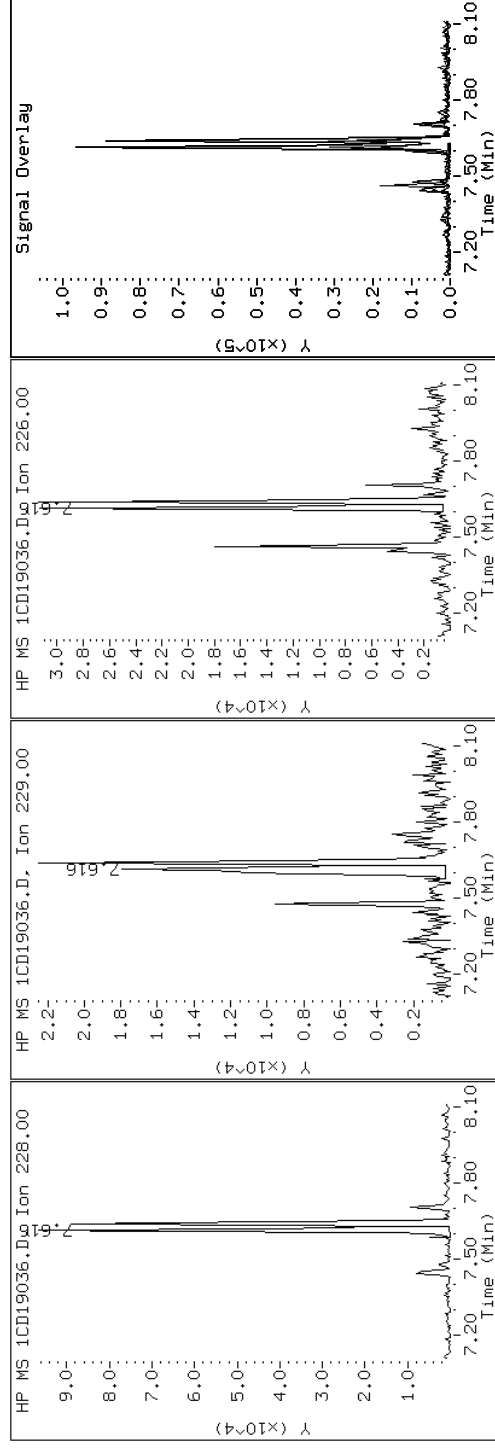
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

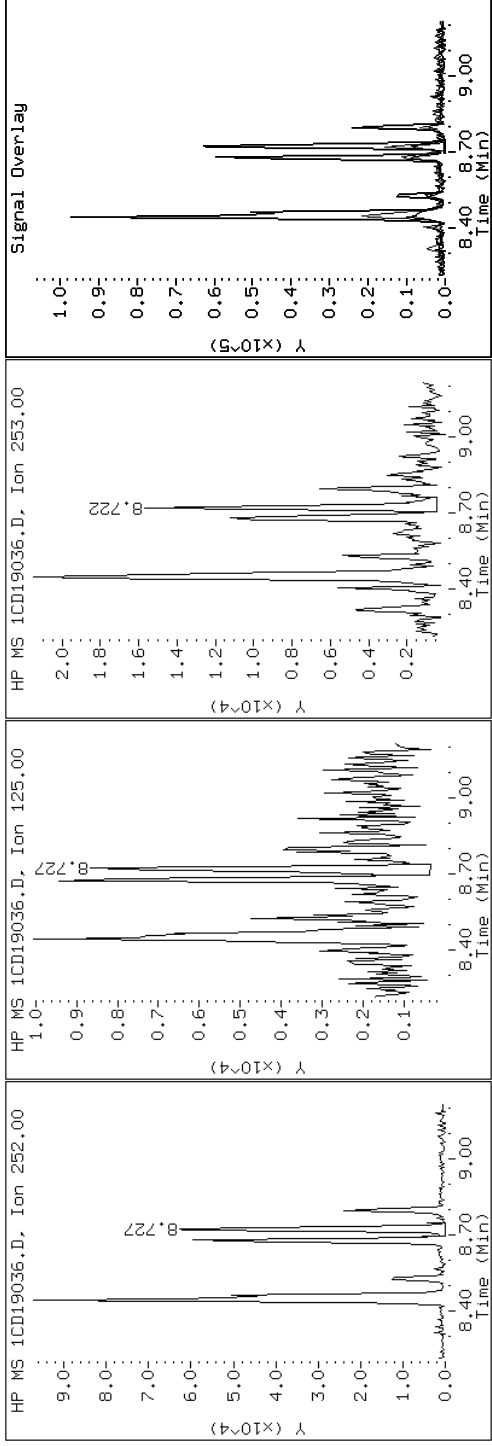
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

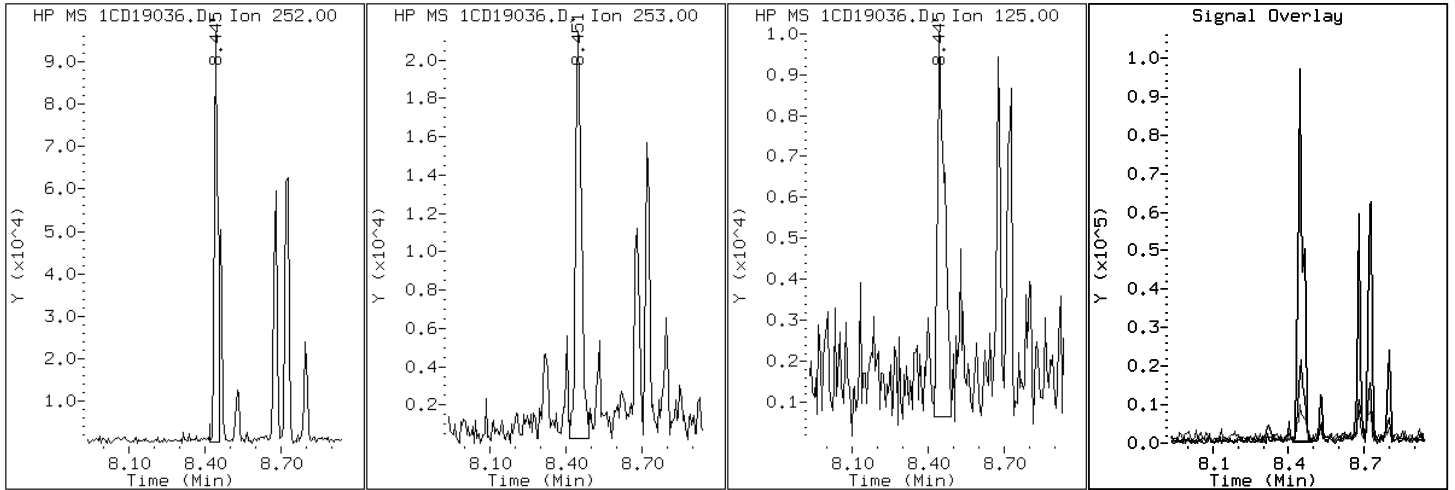
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

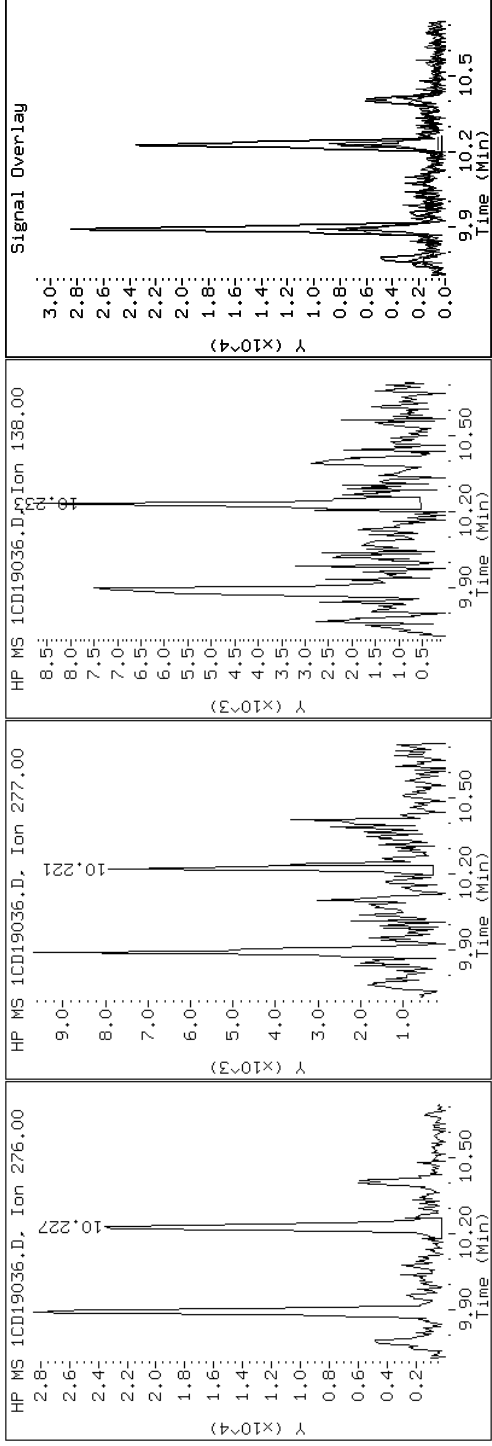
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

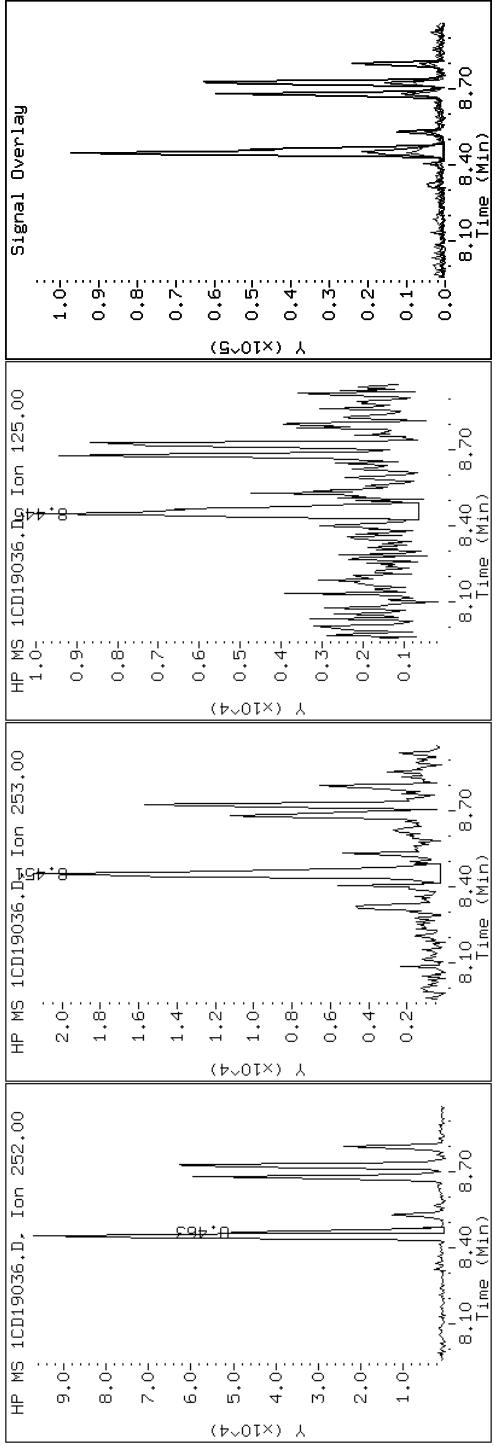
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

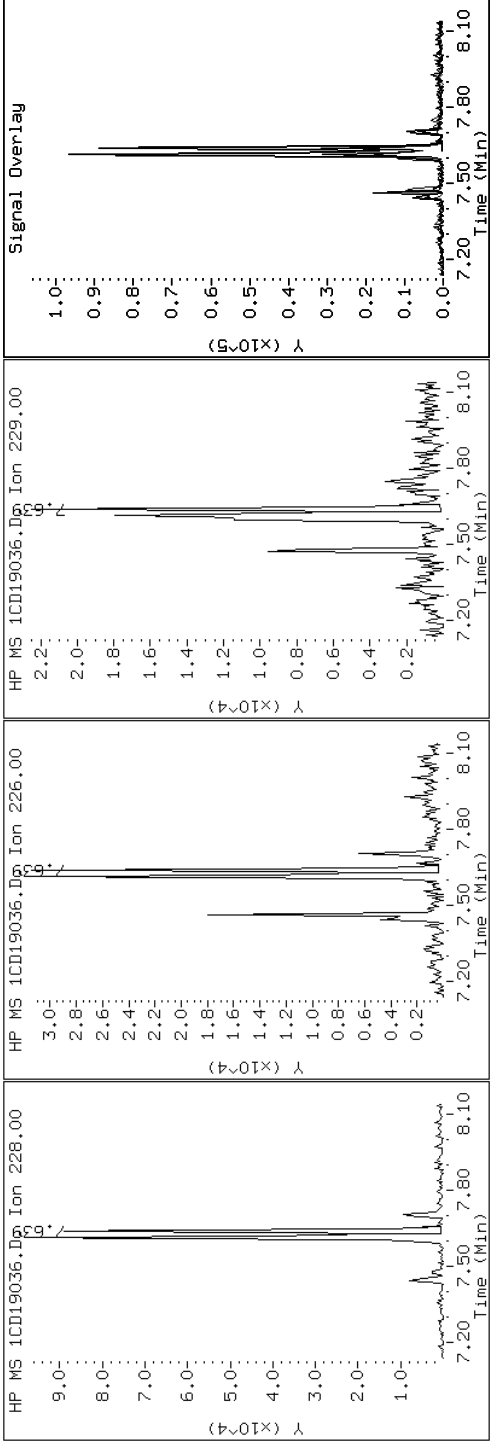
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

19 Chrysene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

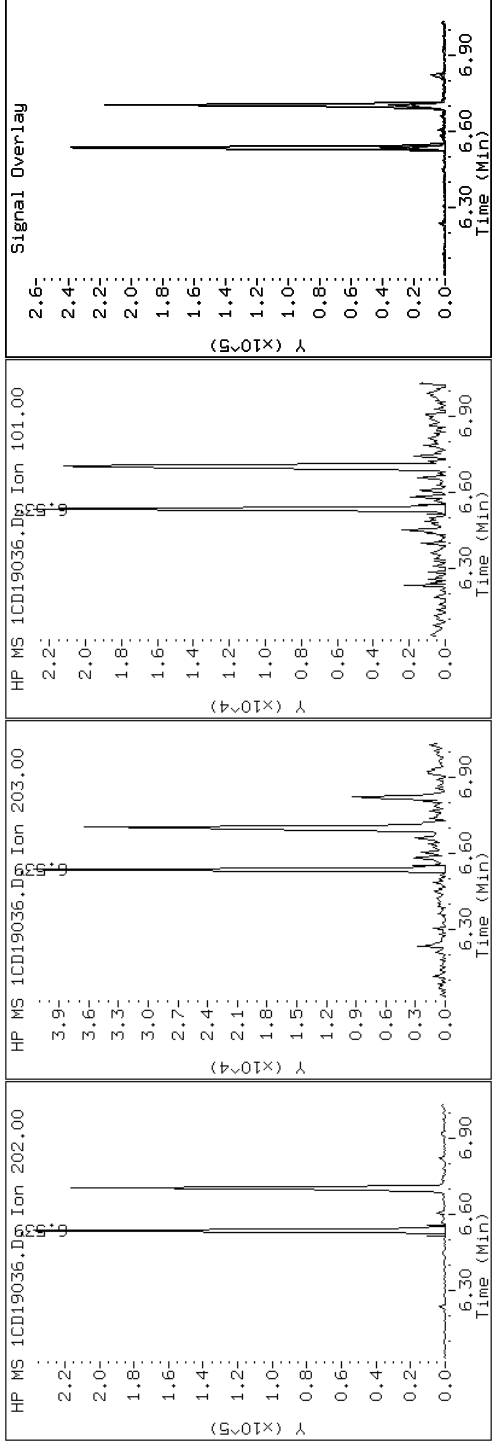
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

15 Fluoranthene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

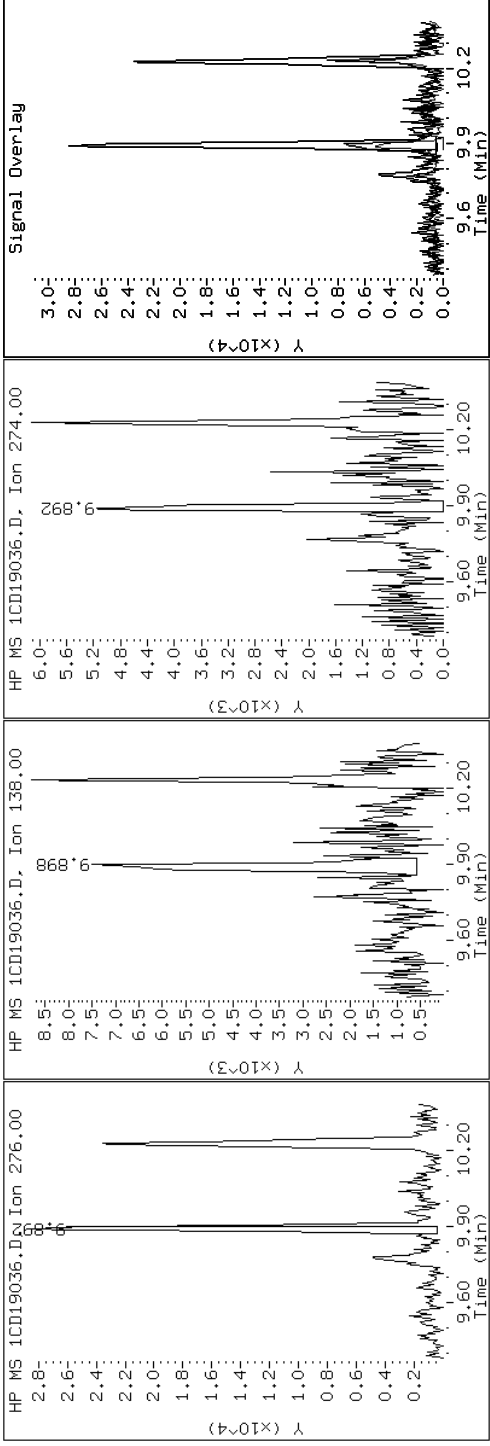
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

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





Data File: 1CD19036.D

Date: 19-APR-2013 21:50

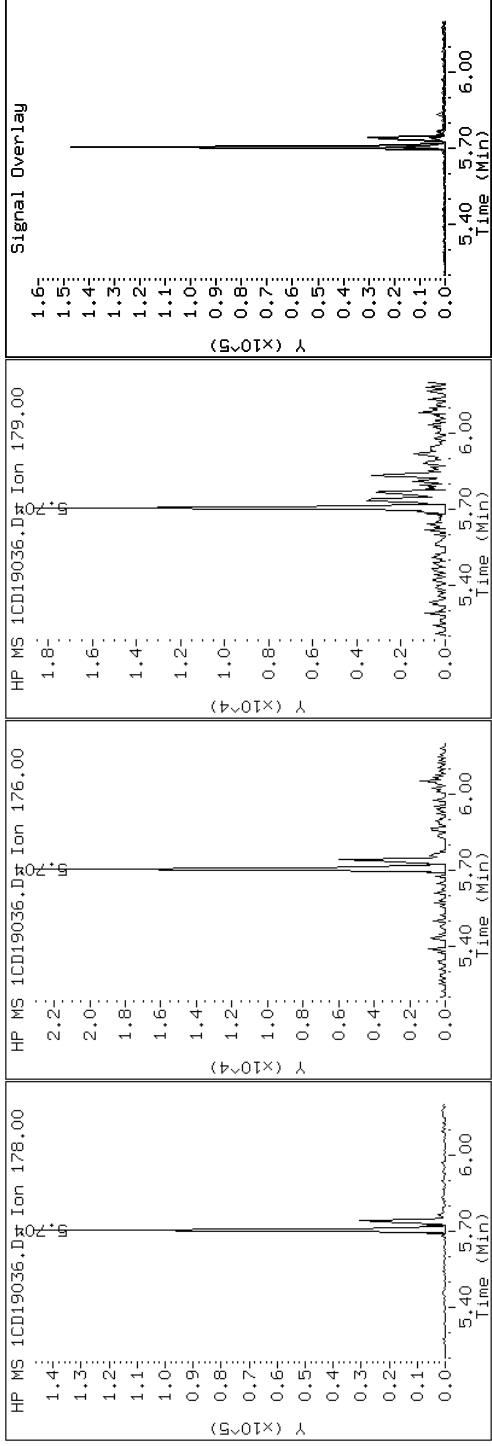
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

11 Phenanthrene



Data File: 1CD19036.D

Date: 19-APR-2013 21:50

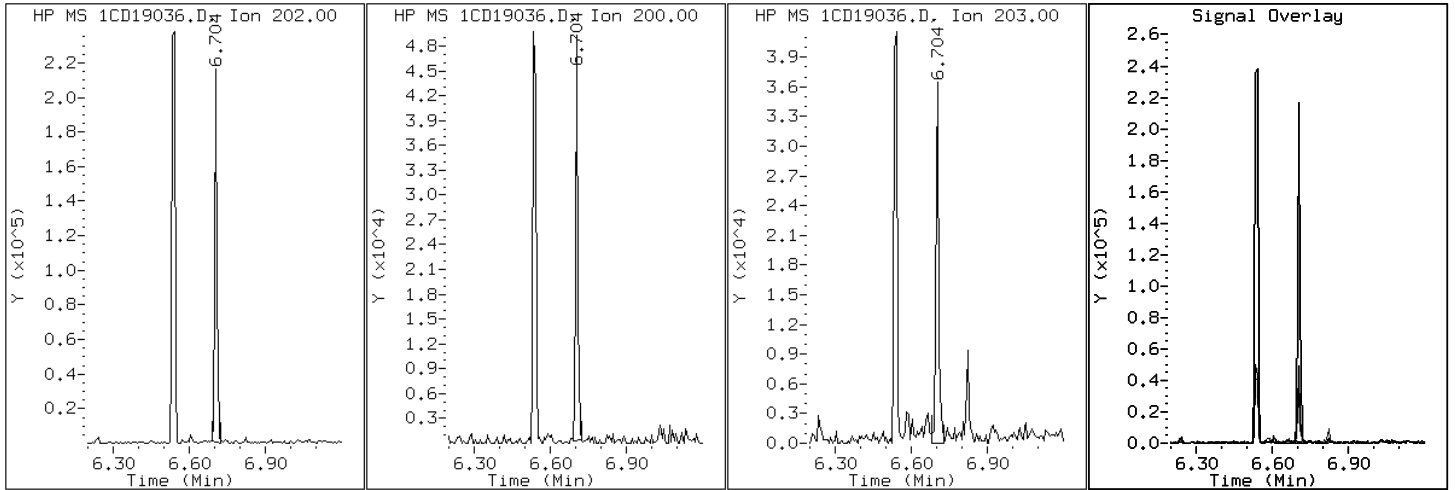
Client ID: FM0351B-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-A-28-A

Operator: SCC

16 Pyrene

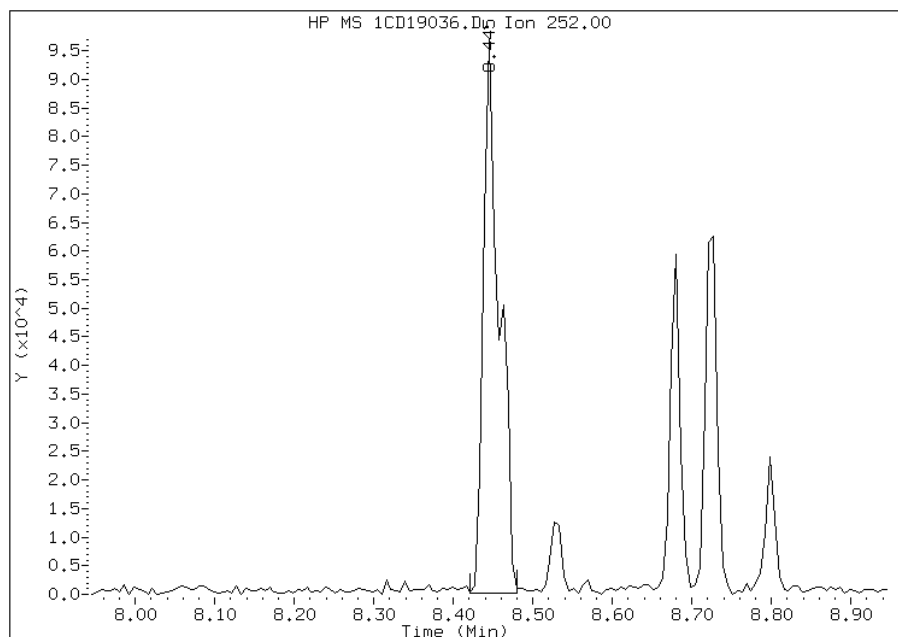


# Manual Integration Report

Data File: 1CD19036.D  
Inj. Date and Time: 19-APR-2013 21:50  
Instrument ID: BSMC5973.i  
Client ID: FM0351B-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/22/2013

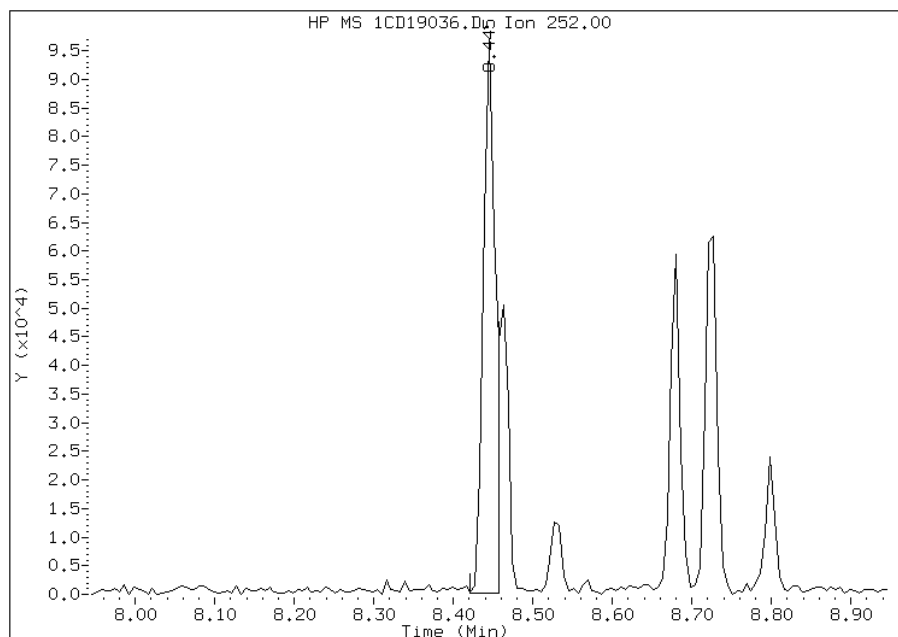
## Processing Integration Results

RT: 8.45  
Response: 134564  
Amount: 18  
Conc: 35623



## Manual Integration Results

RT: 8.45  
Response: 102838  
Amount: 14  
Conc: 27224



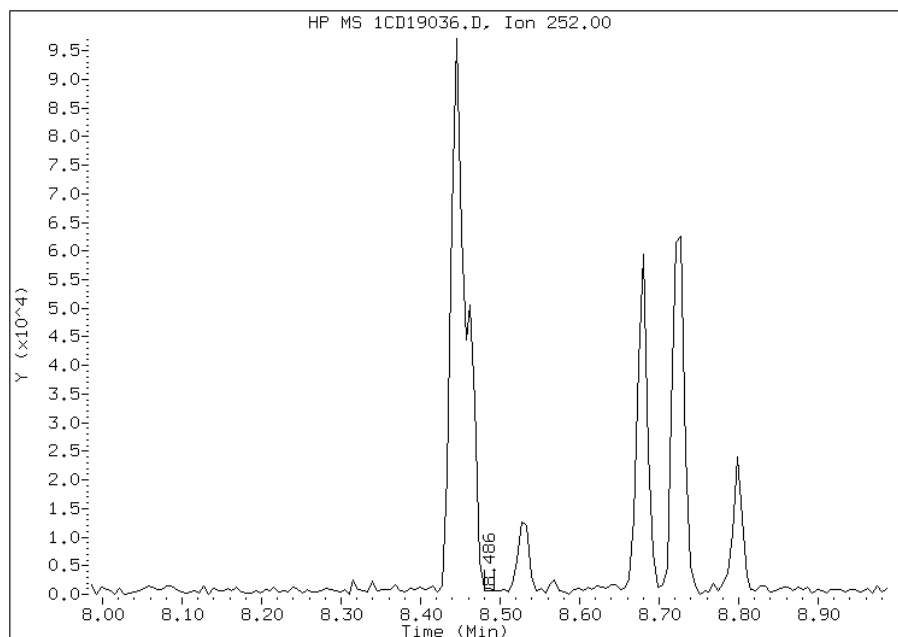
Manually Integrated By: cantins  
Modification Date: 22-Apr-2013 10:23  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD19036.D  
Inj. Date and Time: 19-APR-2013 21:50  
Instrument ID: BSMC5973.i  
Client ID: FM0351B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/22/2013

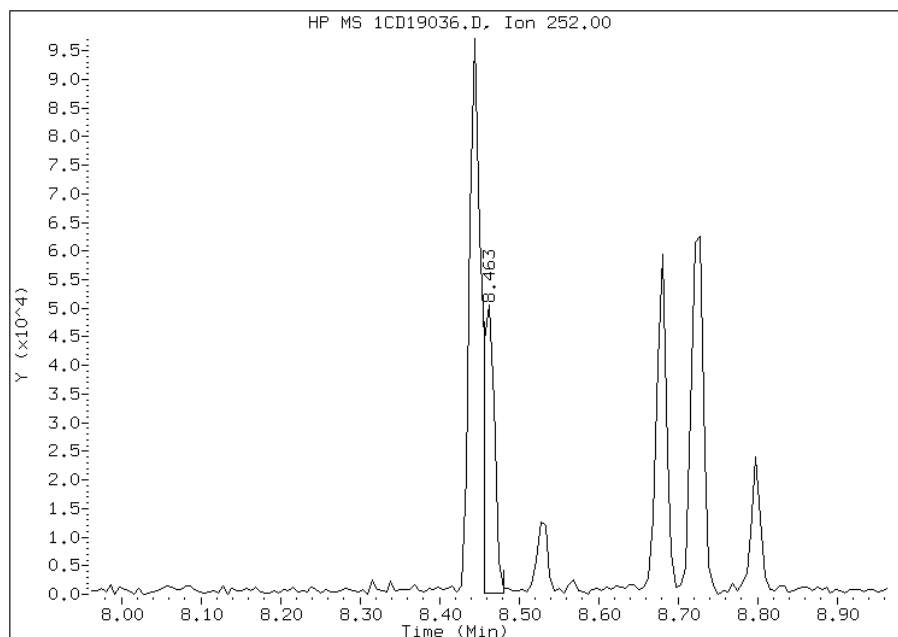
## Processing Integration Results

RT: 8.49  
Response: 319  
Amount: 0  
Conc: 75



## Manual Integration Results

RT: 8.46  
Response: 47259  
Amount: 6  
Conc: 11056



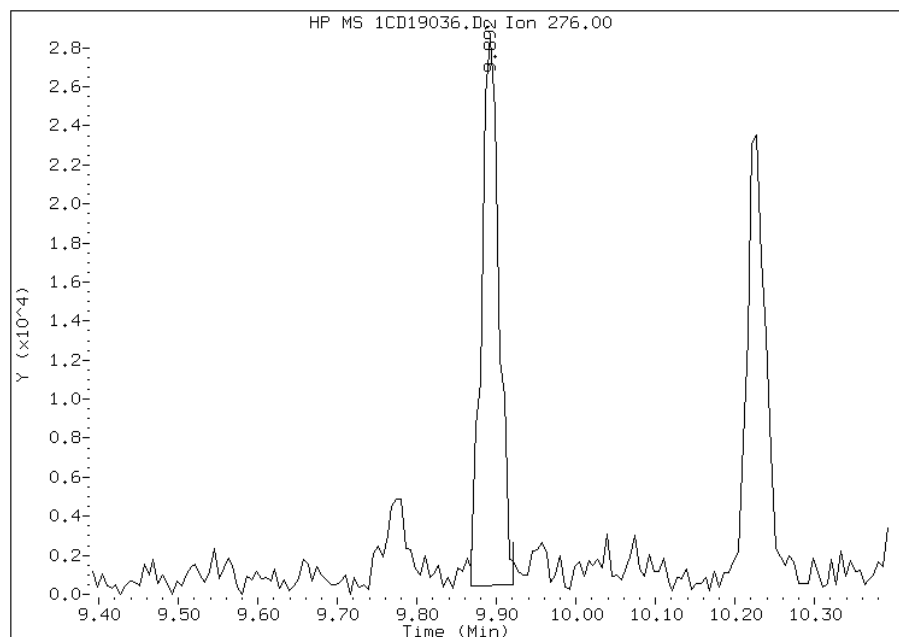
Manually Integrated By: cantins  
Modification Date: 22-Apr-2013 10:23  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD19036.D  
Inj. Date and Time: 19-APR-2013 21:50  
Instrument ID: BSMC5973.i  
Client ID: FM0351B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/22/2013

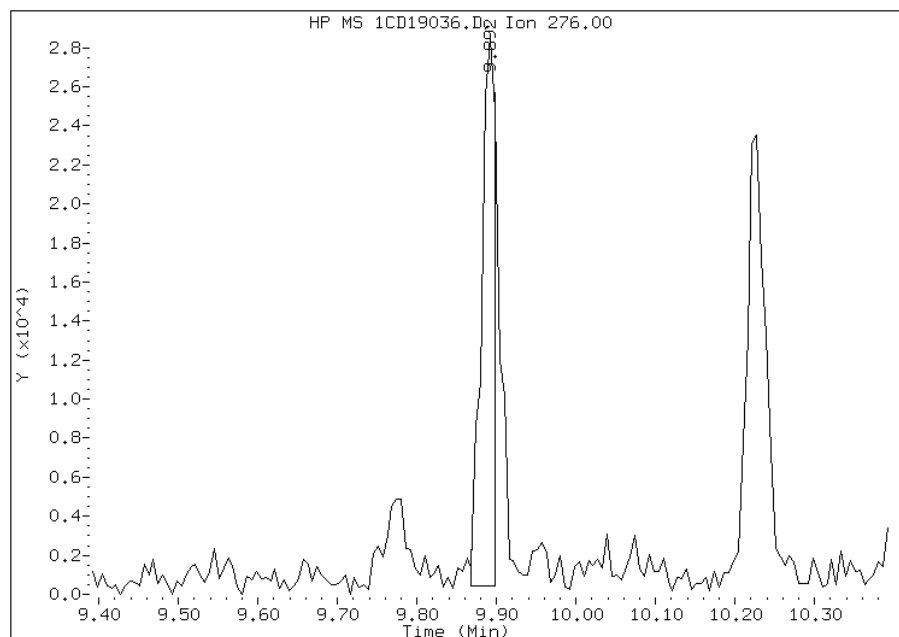
## Processing Integration Results

RT: 9.89  
Response: 42692  
Amount: 6  
Conc: 12243



## Manual Integration Results

RT: 9.89  
Response: 34261  
Amount: 5  
Conc: 10069



Manually Integrated By: cantins  
Modification Date: 22-Apr-2013 10:24  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0351C-CS Lab Sample ID: 680-89220-29  
 Matrix: Solid Lab File ID: 1CD18030.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 12:55  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.32 (g) Date Analyzed: 04/18/2013 20:15  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 28.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	22	J	54	6.8
120-12-7	Anthracene	81		11	5.7
56-55-3	Benzo[a]anthracene	200		11	5.3
50-32-8	Benzo[a]pyrene	220		14	7.1
205-99-2	Benzo[b]fluoranthene	460		17	8.3
191-24-2	Benzo[g,h,i]perylene	200		27	6.0
207-08-9	Benzo[k]fluoranthene	120		11	4.9
218-01-9	Chrysene	330		12	6.1
53-70-3	Dibenz(a,h)anthracene	85		27	5.6
206-44-0	Fluoranthene	480		27	5.4
86-73-7	Fluorene	35		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	210		27	9.7
90-12-0	1-Methylnaphthalene	70		54	6.0
91-57-6	2-Methylnaphthalene	77		54	9.7
91-20-3	Naphthalene	81		54	6.0
85-01-8	Phenanthrene	260		11	5.3
129-00-0	Pyrene	430		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18030.D  
 Lab Smp Id: 680-89220-A-29-A Client Smp ID: FM0351C-CS  
 Inj Date : 18-APR-2013 20:15  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-29-a  
 Misc Info : 680-89220-A-29-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 30  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	28.035	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	290944	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	198134	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	363958	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	49335	8.87533	805.0195
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	401490	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	364399	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	7035	0.89451	81.1344
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	3038	0.85030	77.1246
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	3904	0.77712	70.4875
5 Acenaphthylene	152		4.663	4.663	(0.981)	2005	0.23881	21.6611(Q)
9 Fluorene	166		5.086	5.086	(1.071)	2511	0.38999	35.3728
11 Phenanthrene	178		5.710	5.704	(1.003)	30746	2.88317	261.5124
12 Anthracene	178		5.739	5.739	(1.008)	9402	0.88983	80.7100
13 Carbazole	167		5.851	5.851	(1.028)	6235	0.63359	57.4686

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.539	6.539	(1.149)	62299	5.27650	478.5947
16 Pyrene	202	6.704	6.704	(0.879)	54428	4.76520	432.2183
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	24859	2.18957	198.6010
19 Chrysene	228	7.645	7.645	(1.002)	40350	3.59264	325.8633
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	46288	5.02923	456.1667(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.964)	13995	1.34379	121.8856(QM)
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	23116	2.42973	220.3838
24 Indeno(1,2,3-cd)pyrene	276	9.897	9.898	(1.127)	15917	2.32342	210.7414(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.909	(1.128)	4623	0.94246	85.4840
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.165)	20037	2.24697	203.8070(M)

QC Flag Legend

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



Data File: 1CD18030.D

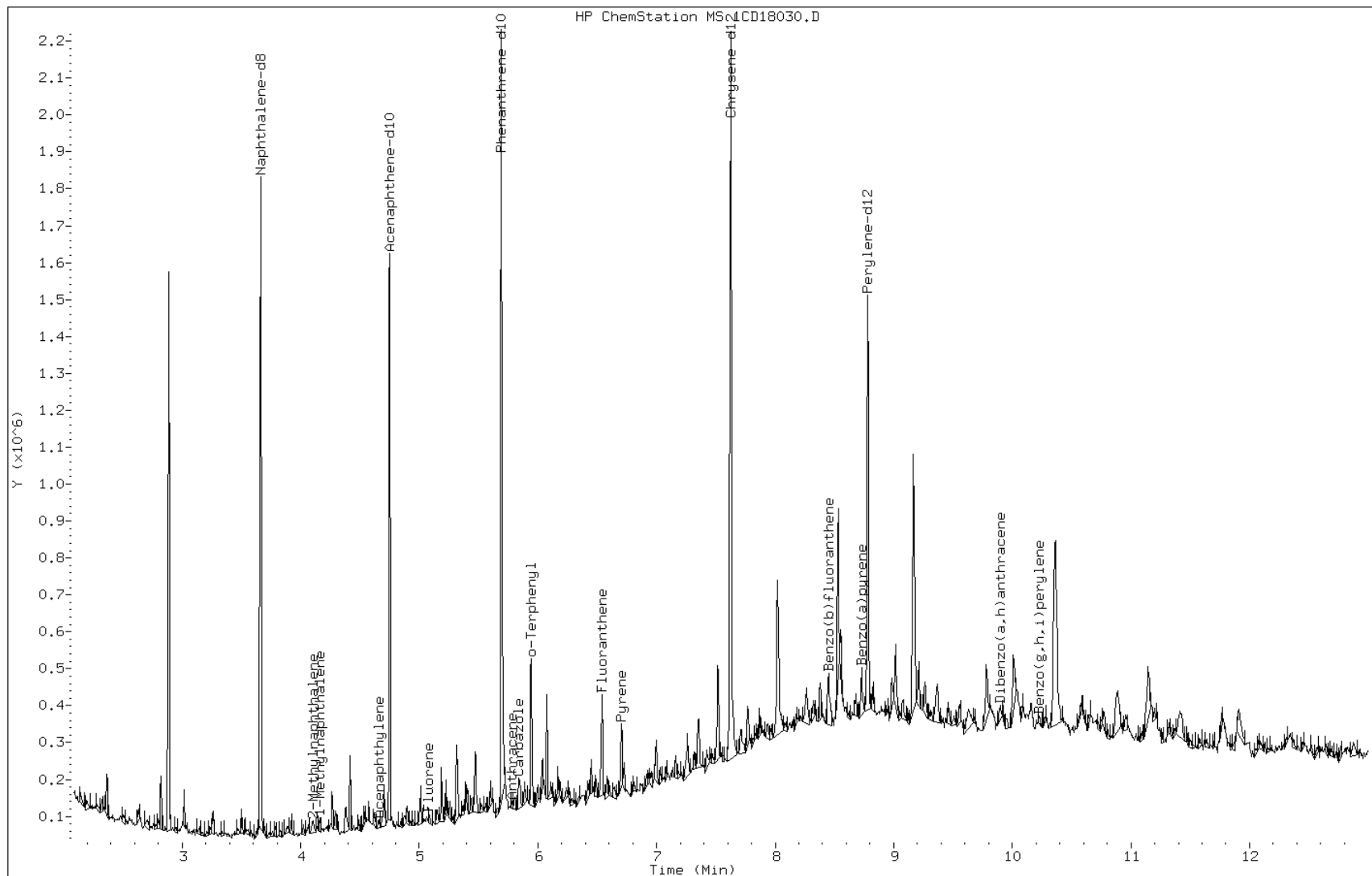
Date: 18-APR-2013 20:15

Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

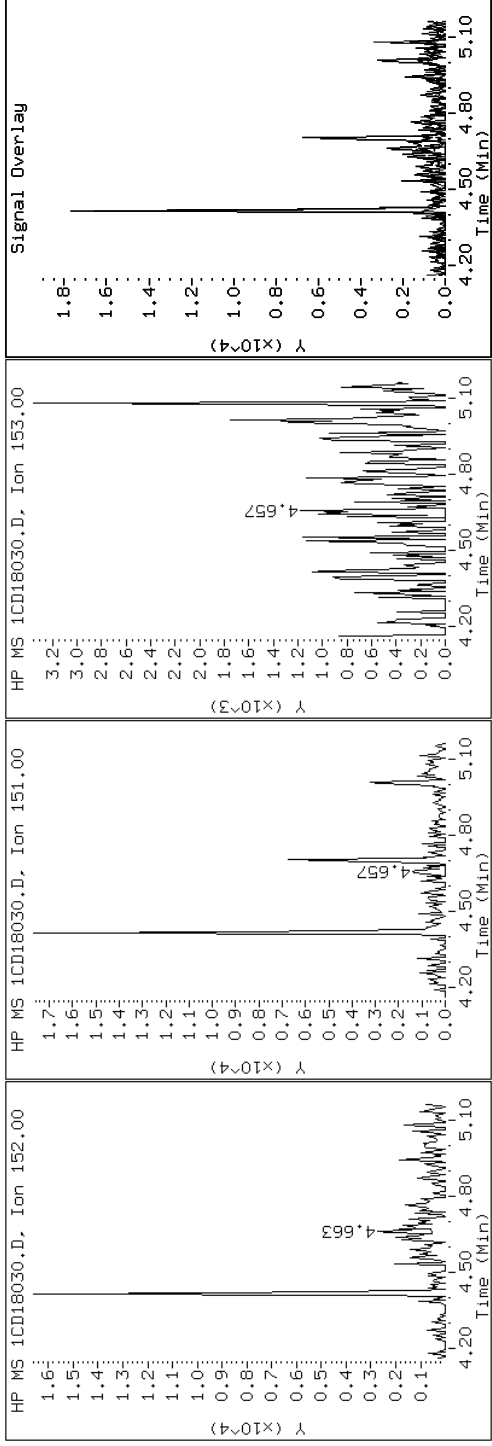
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

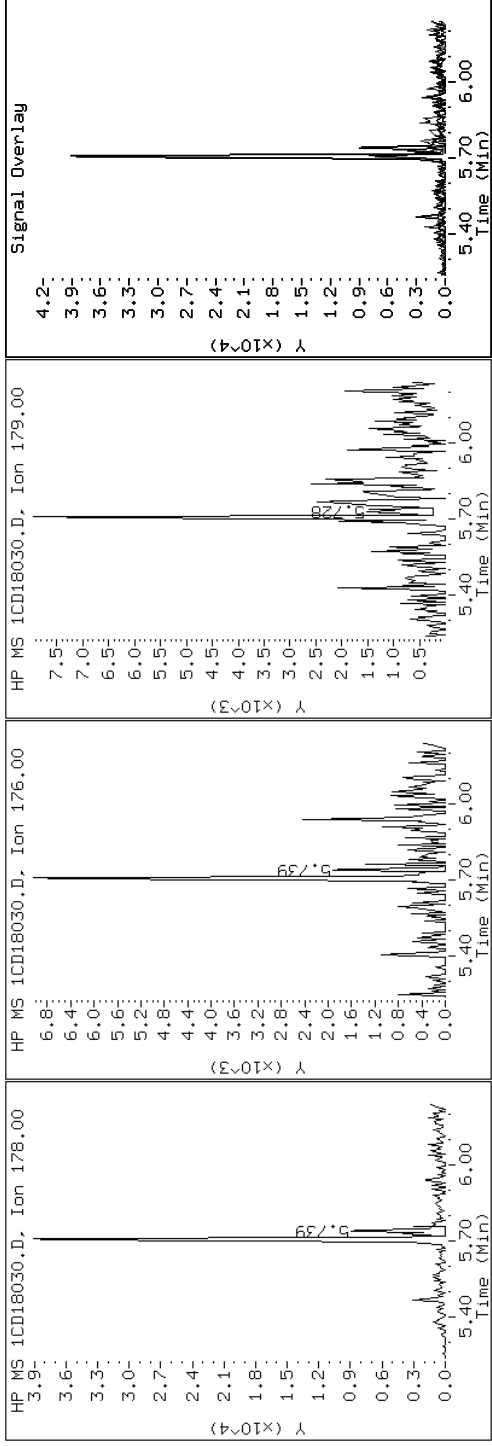
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

12 Anthracene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

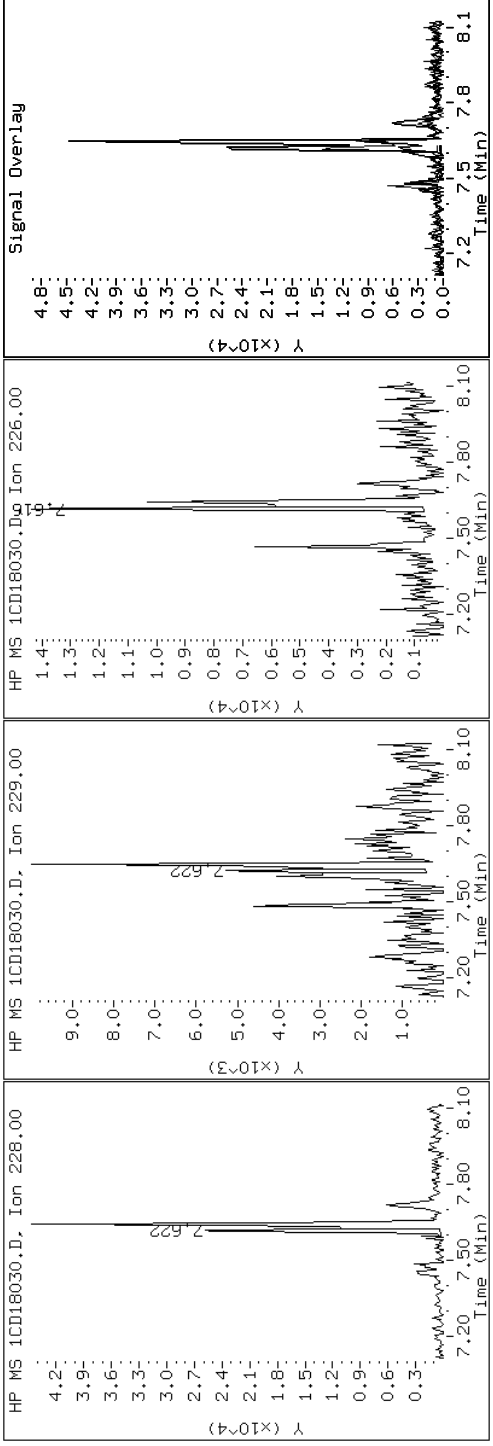
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

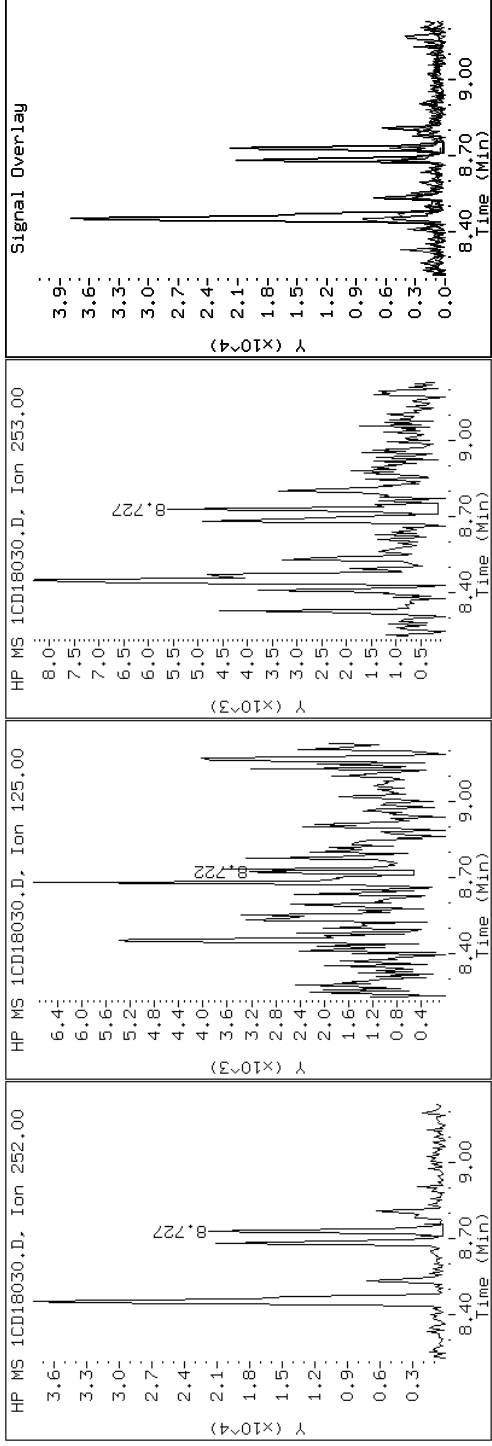
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

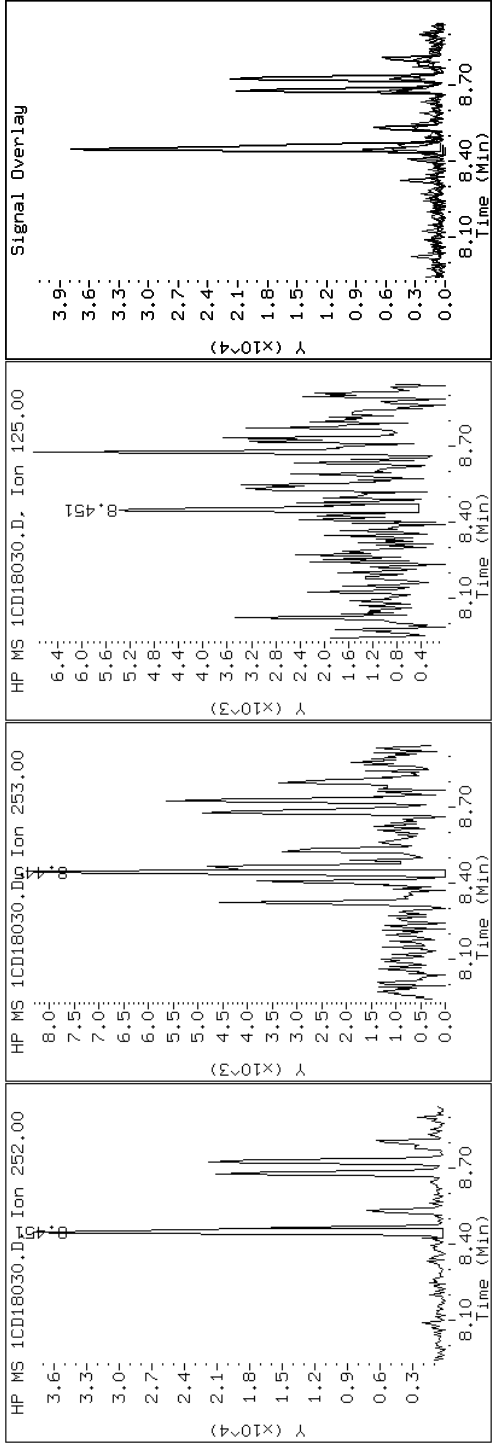
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

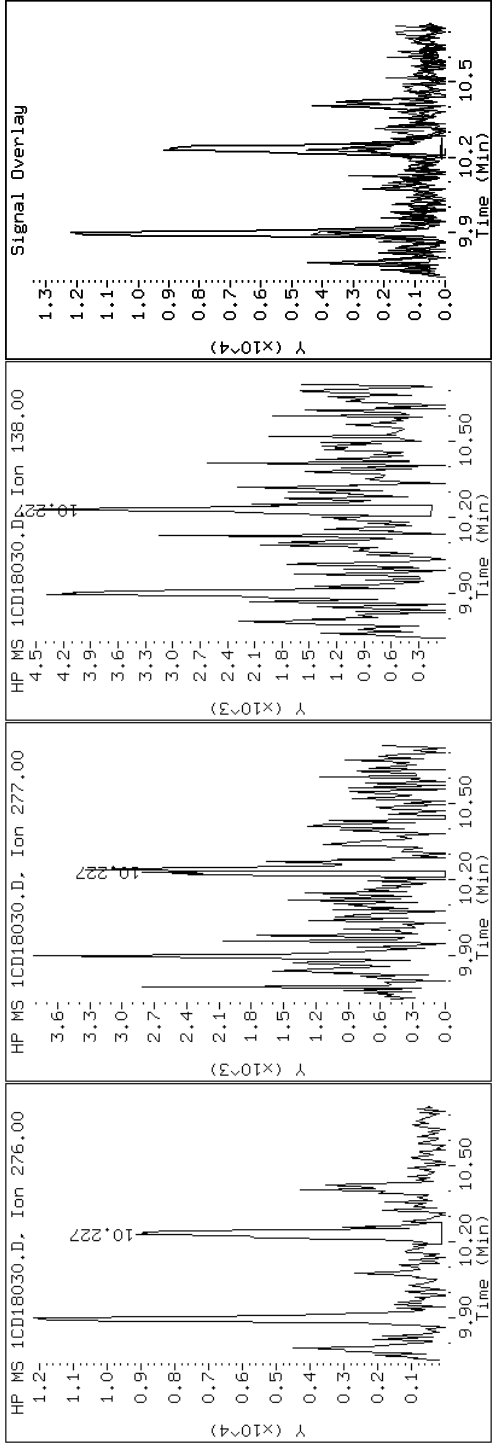
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

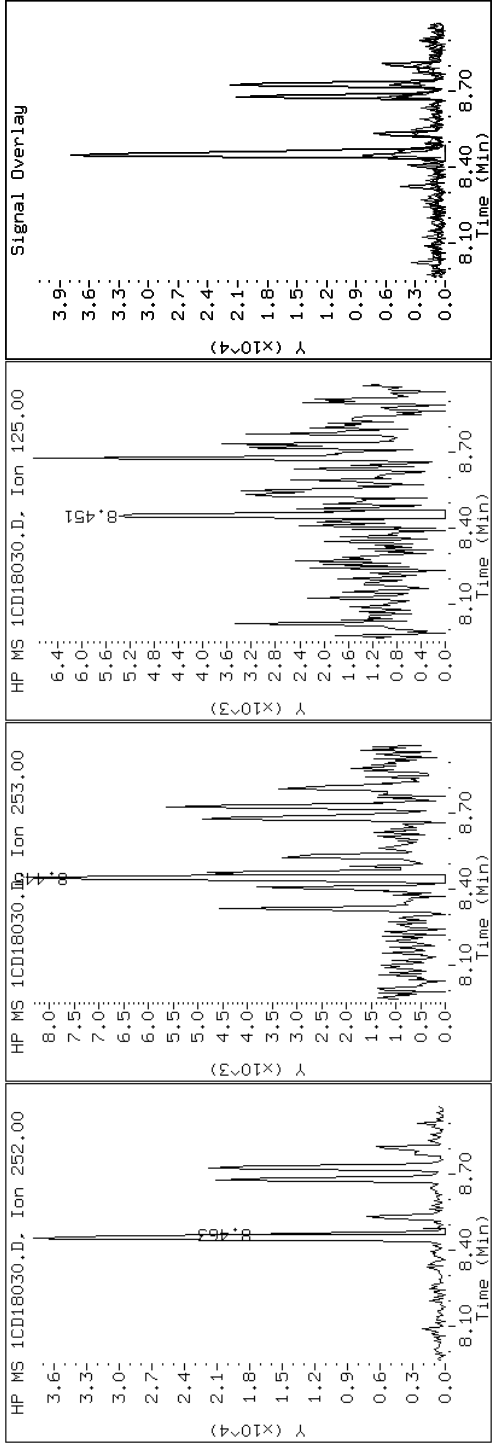
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CD18030.D

Date: 18-APR-2013 20:15

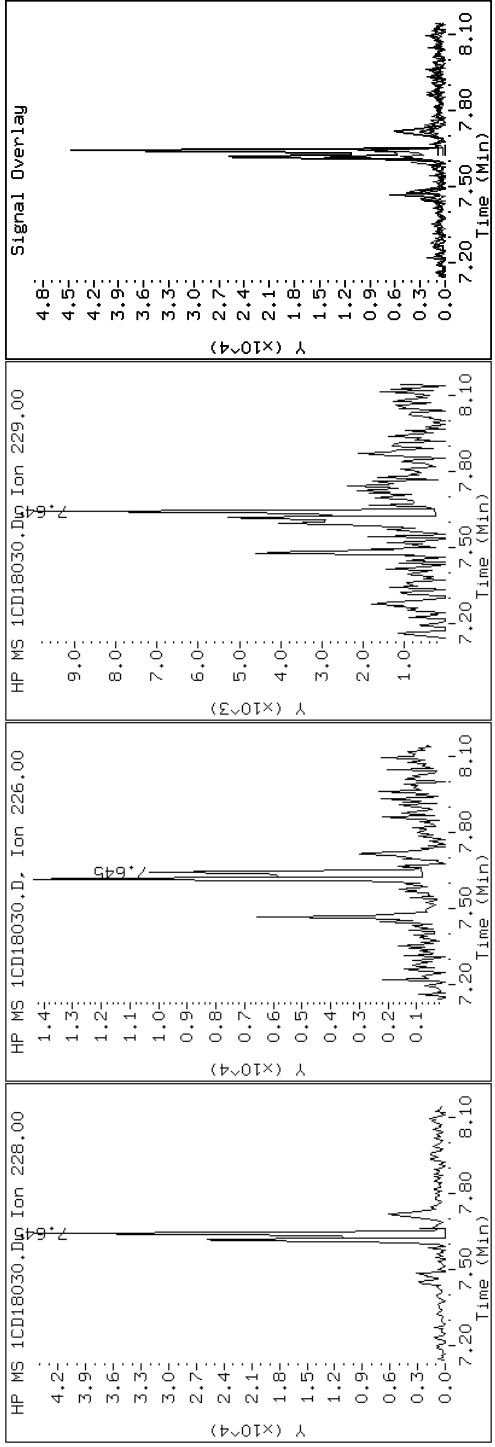
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

19 Chrysene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

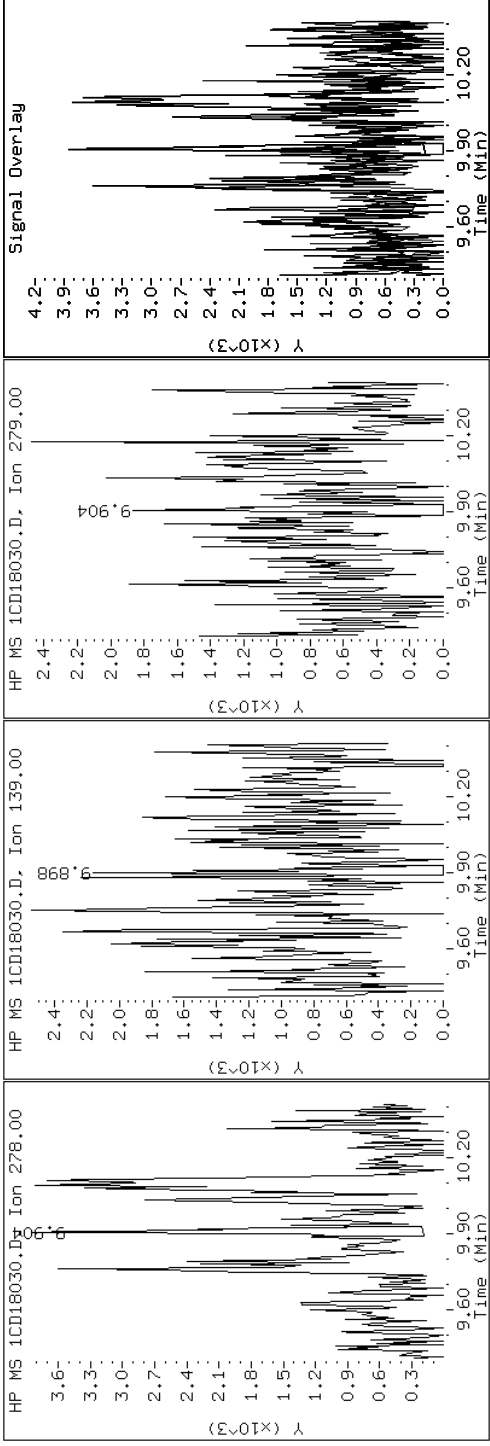
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

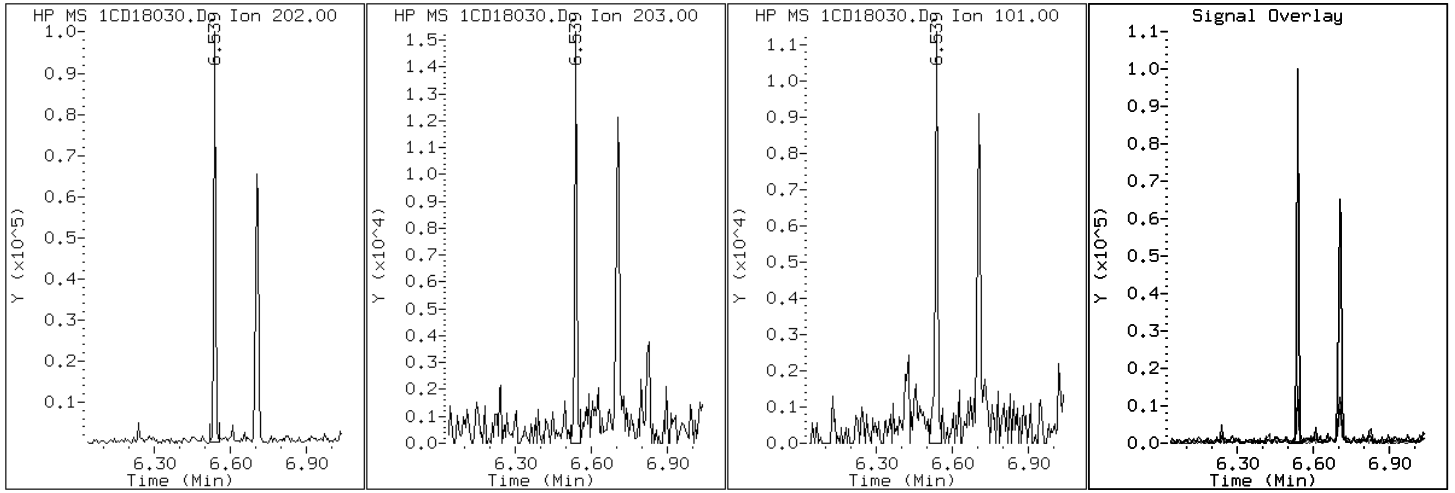
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

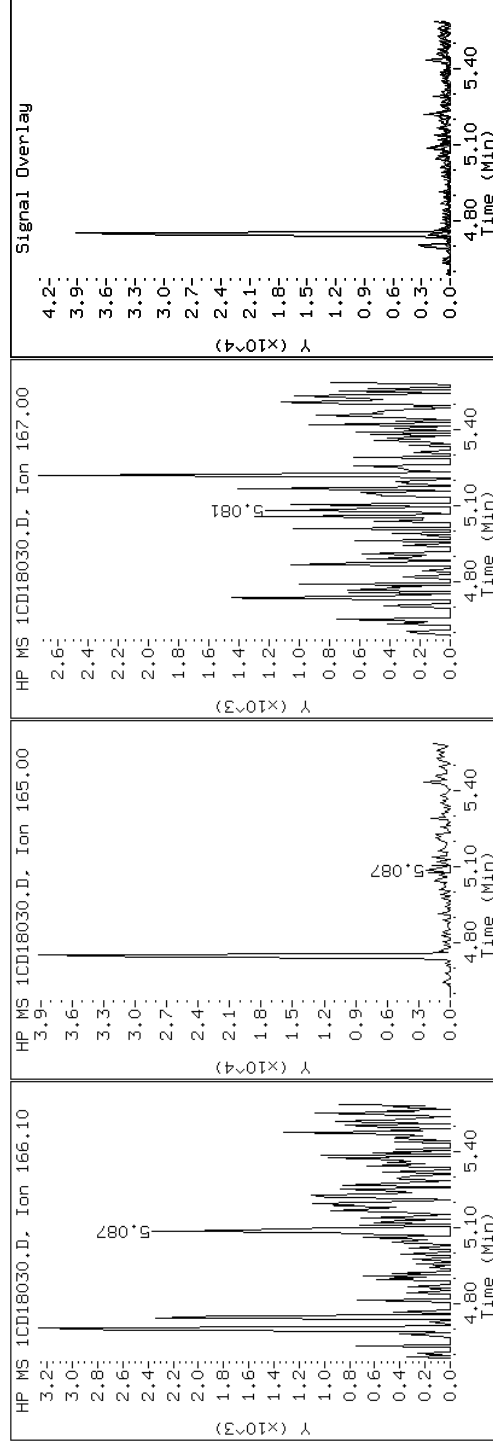
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

9 Fluorene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

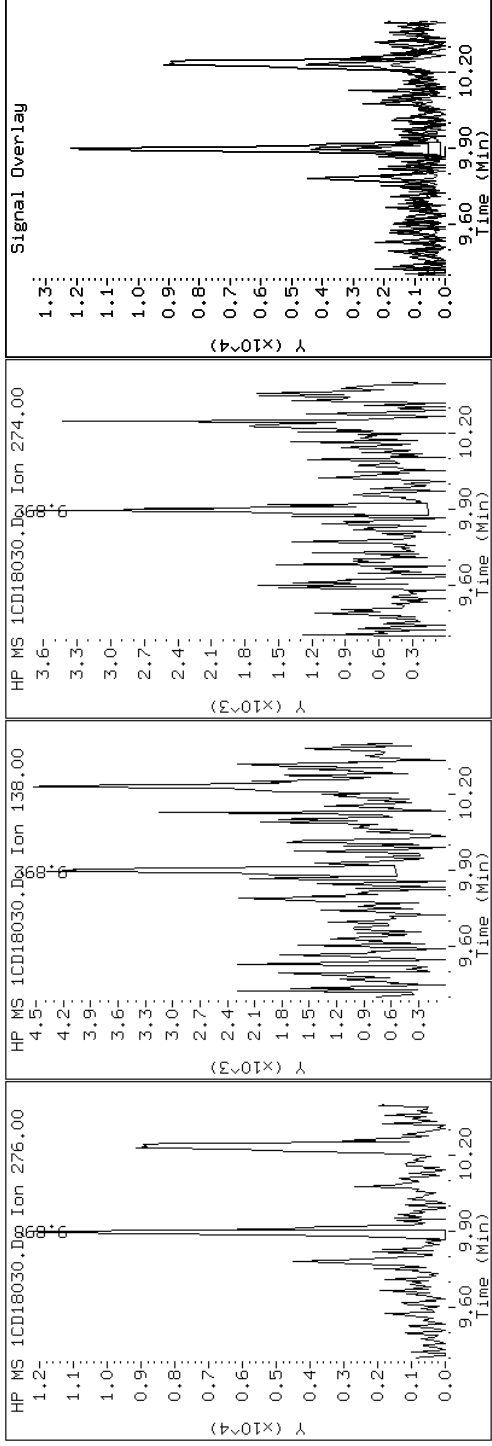
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

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



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

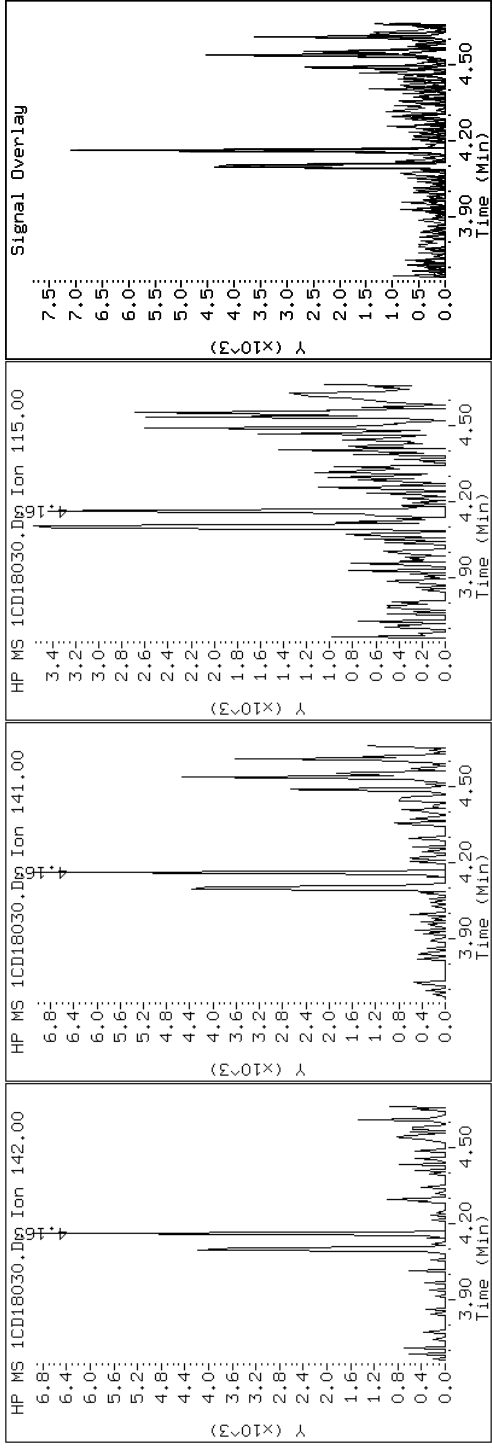
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

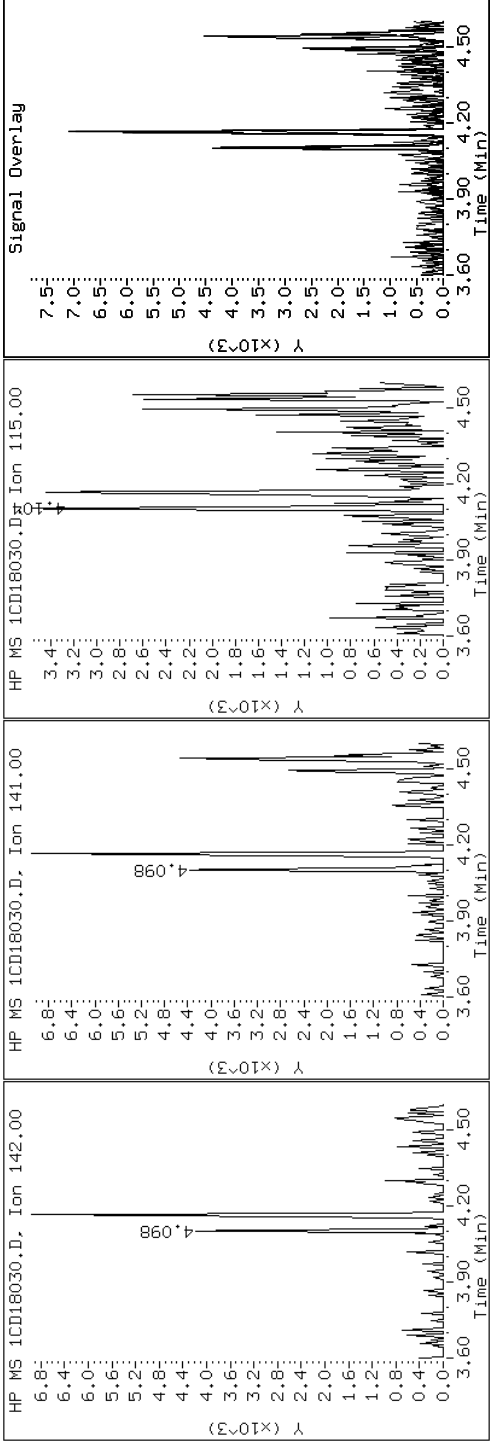
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

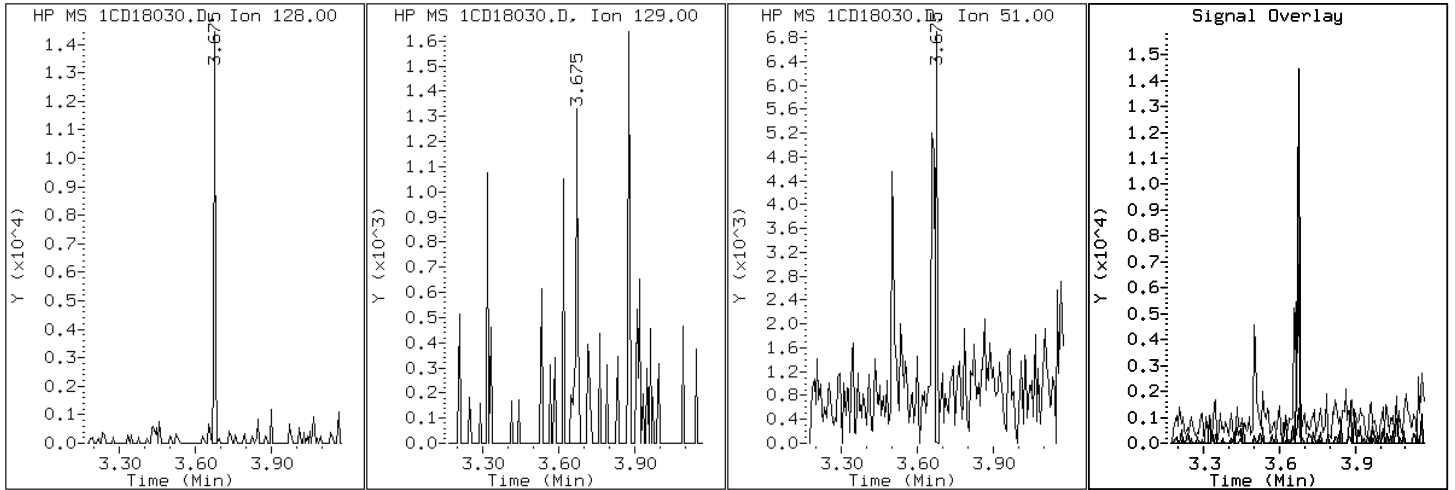
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

2 Naphthalene





Data File: 1CD18030.D

Date: 18-APR-2013 20:15

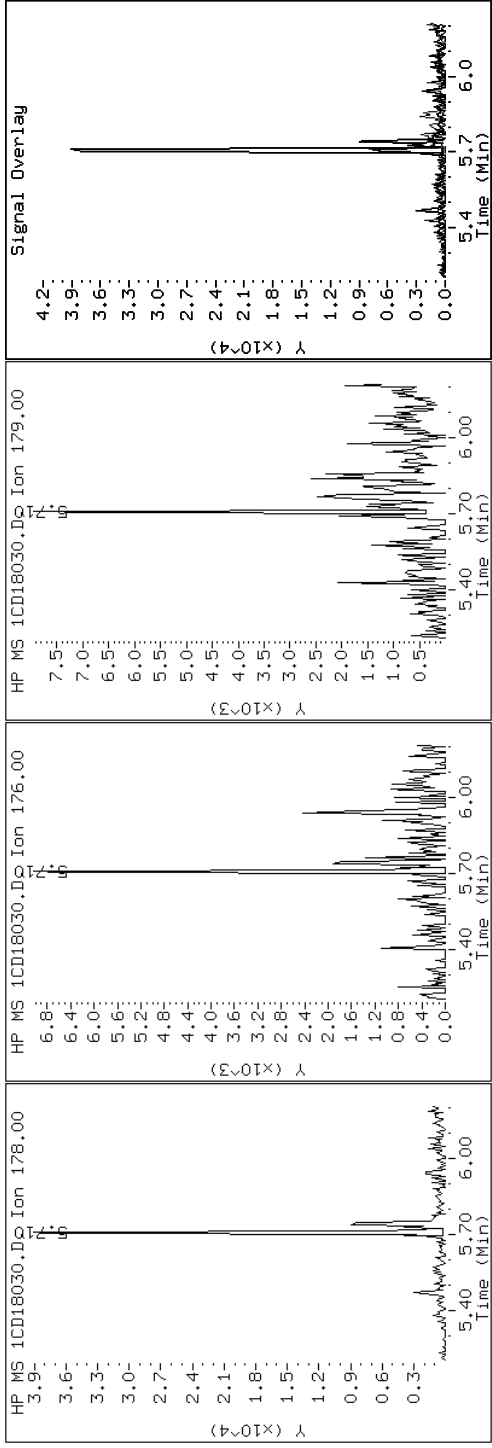
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18030.D

Date: 18-APR-2013 20:15

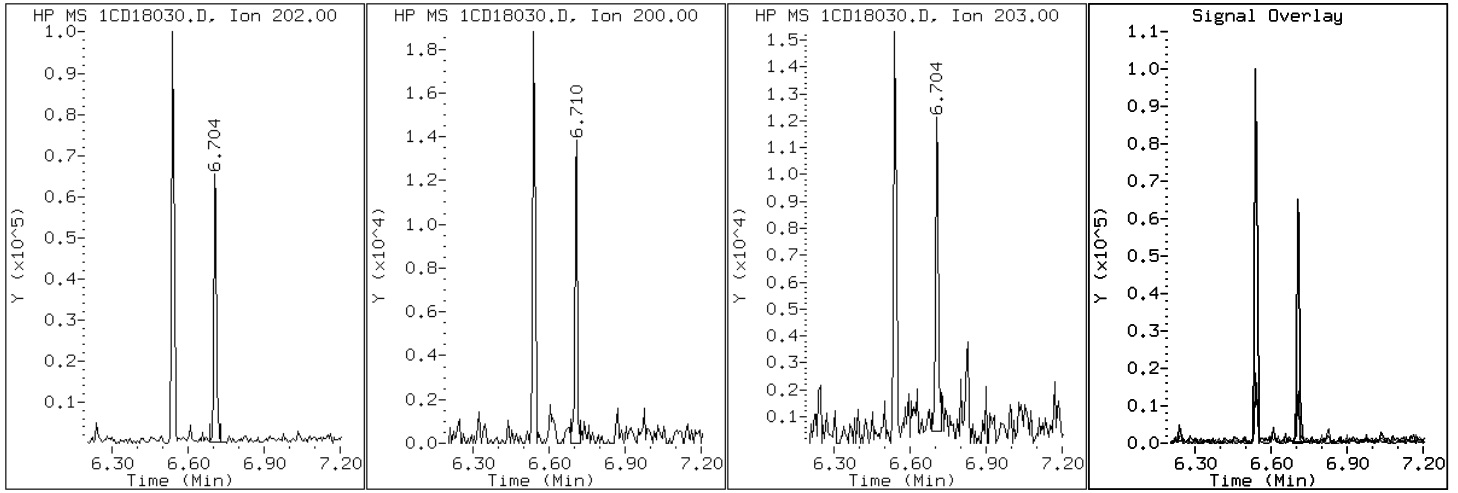
Client ID: FM0351C-CS

Instrument: BSMC5973.i

Sample Info: 680-89220-a-29-a

Operator: SCC

16 Pyrene

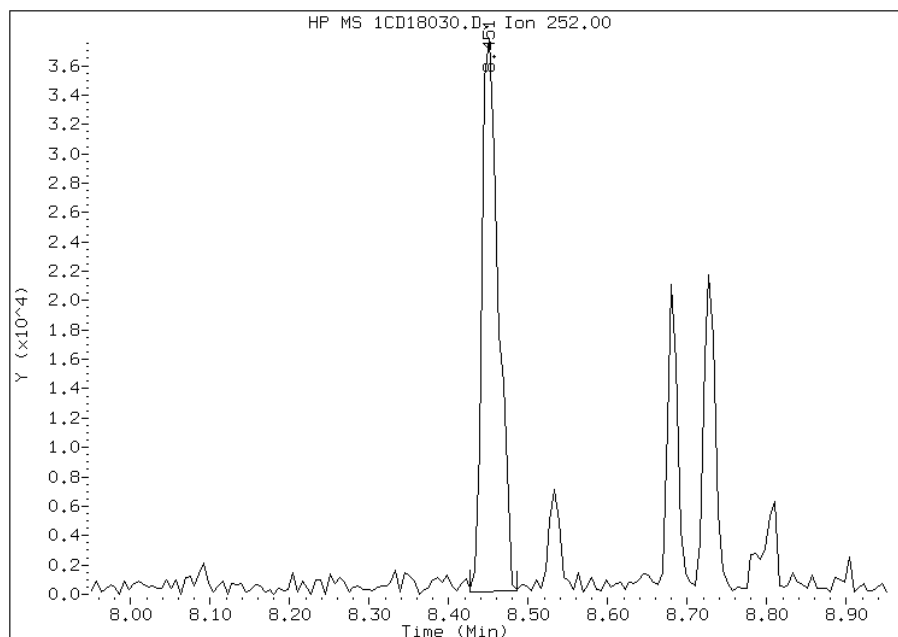


# Manual Integration Report

Data File: 1CD18030.D  
Inj. Date and Time: 18-APR-2013 20:15  
Instrument ID: BSMC5973.i  
Client ID: FM0351C-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

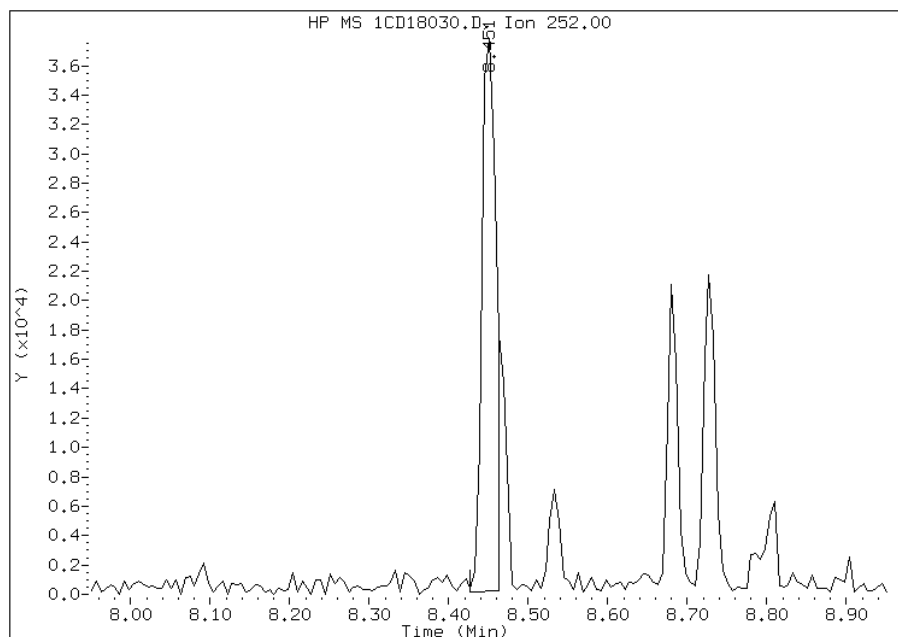
## Processing Integration Results

RT: 8.45  
Response: 53708  
Amount: 6  
Conc: 529



## Manual Integration Results

RT: 8.45  
Response: 46288  
Amount: 5  
Conc: 456



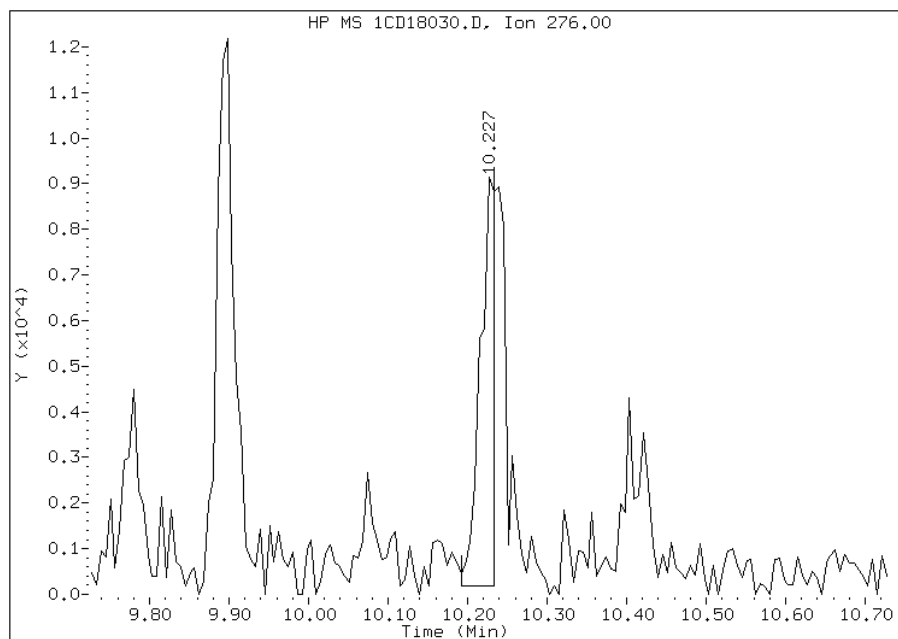
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:33  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18030.D  
Inj. Date and Time: 18-APR-2013 20:15  
Instrument ID: BSMC5973.i  
Client ID: FM0351C-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/19/2013

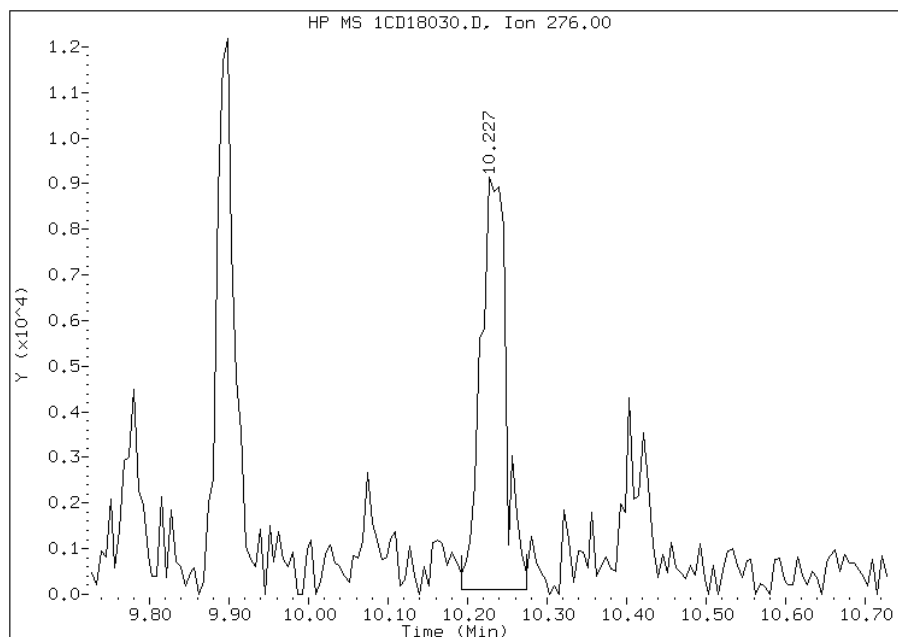
## Processing Integration Results

RT: 10.23  
Response: 11532  
Amount: 1  
Conc: 117



## Manual Integration Results

RT: 10.23  
Response: 20037  
Amount: 2  
Conc: 204



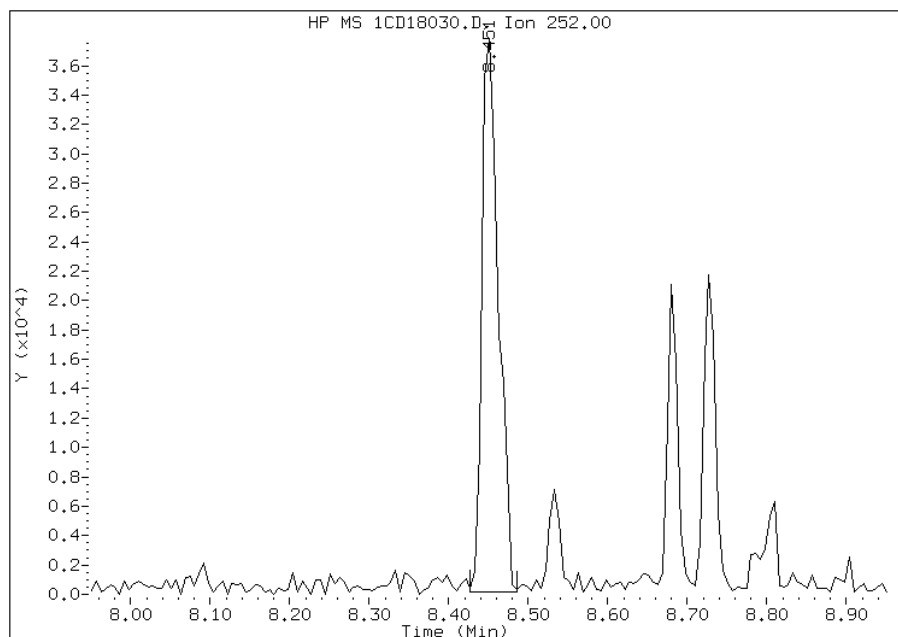
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:34  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18030.D  
Inj. Date and Time: 18-APR-2013 20:15  
Instrument ID: BSMC5973.i  
Client ID: FM0351C-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

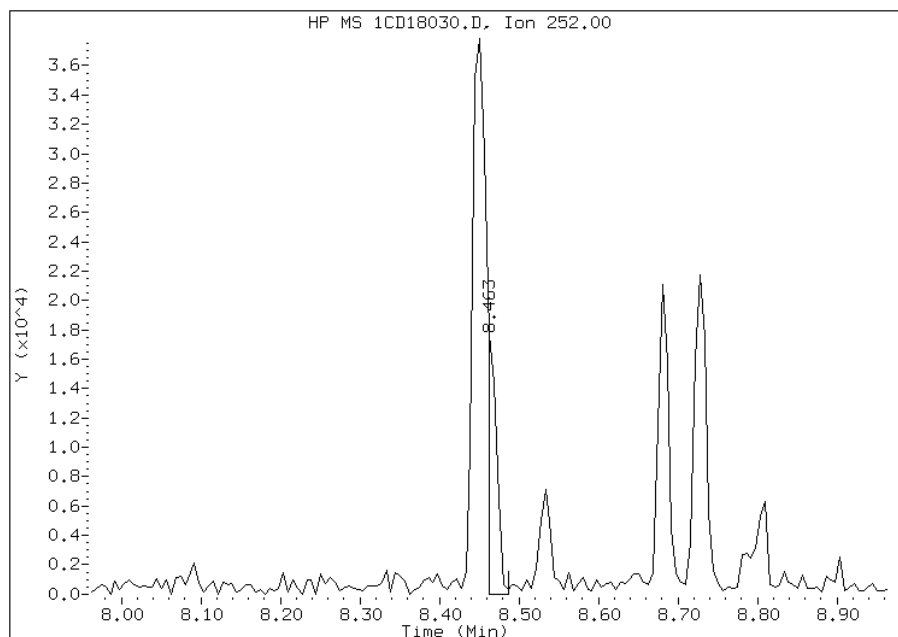
## Processing Integration Results

RT: 8.45  
Response: 53795  
Amount: 5  
Conc: 469



## Manual Integration Results

RT: 8.46  
Response: 13995  
Amount: 1  
Conc: 122



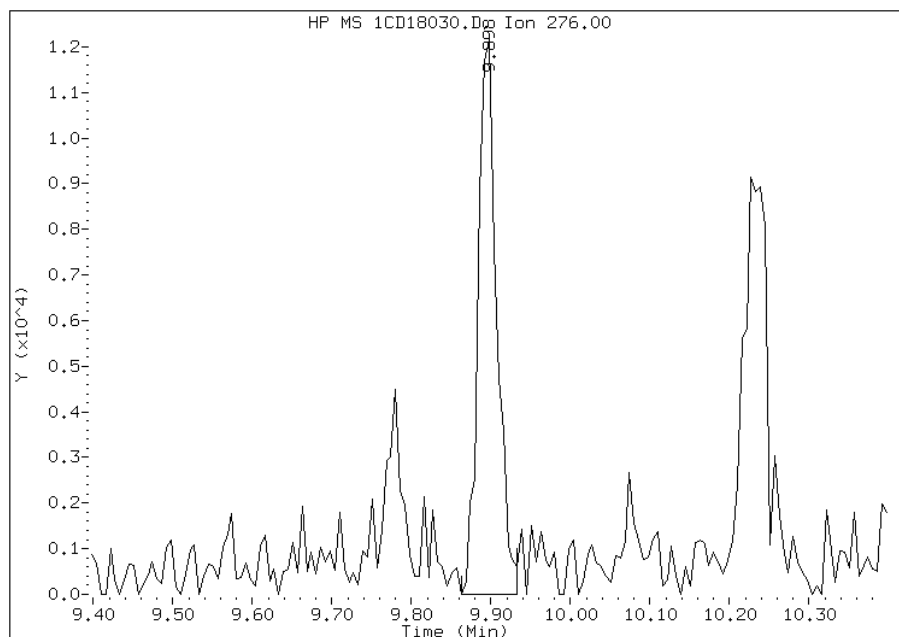
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:33  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18030.D  
Inj. Date and Time: 18-APR-2013 20:15  
Instrument ID: BSMC5973.i  
Client ID: FM0351C-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

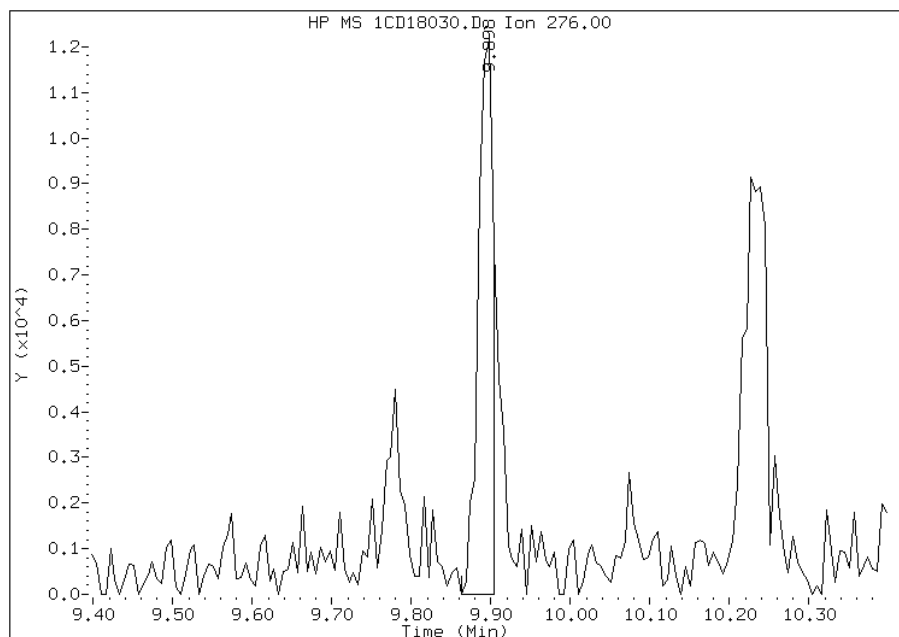
## Processing Integration Results

RT: 9.90  
Response: 19699  
Amount: 3  
Conc: 247



## Manual Integration Results

RT: 9.90  
Response: 15917  
Amount: 2  
Conc: 211



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:34  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV0675A-CS-SP Lab Sample ID: 680-89220-30  
 Matrix: Solid Lab File ID: 1CD18031.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 12:42  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.04(g) Date Analyzed: 04/18/2013 20:34  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 35.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	44	J	61	7.7
120-12-7	Anthracene	86		13	6.5
56-55-3	Benzo[a]anthracene	200		12	6.0
50-32-8	Benzo[a]pyrene	280		16	8.0
205-99-2	Benzo[b]fluoranthene	520		19	9.4
191-24-2	Benzo[g,h,i]perylene	200		31	6.8
207-08-9	Benzo[k]fluoranthene	170		12	5.5
218-01-9	Chrysene	380		14	6.9
53-70-3	Dibenz(a,h)anthracene	130		31	6.3
206-44-0	Fluoranthene	260		31	6.1
86-73-7	Fluorene	12	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	240		31	11
90-12-0	1-Methylnaphthalene	120		61	6.8
91-57-6	2-Methylnaphthalene	170		61	11
91-20-3	Naphthalene	180		61	6.8
85-01-8	Phenanthrene	230		12	6.0
129-00-0	Pyrene	250		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18031.D  
 Lab Smp Id: 680-89220-A-30-A Client Smp ID: CV0675A-CS-SP  
 Inj Date : 18-APR-2013 20:34  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-30-a  
 Misc Info : 680-89220-A-30-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	35.068	% 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		3.663	3.663	(1.000)	268368	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	190443	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	326309	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	40007	8.09351	828.7608	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	348142	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	336602	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	12425	1.71275	175.3828	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	6896	1.69407	173.4698	
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	5563	1.20052	122.9308	
5 Acenaphthylene	152		4.663	4.663	(0.981)	3456	0.42826	43.8535	
9 Fluorene	166		5.086	5.086	(1.071)	723	0.11682	11.9626(Q)	
11 Phenanthrene	178		5.710	5.704	(1.003)	21524	2.25256	230.6585	
12 Anthracene	178		5.745	5.739	(1.009)	7967	0.84101	86.1182	
13 Carbazole	167		5.851	5.851	(1.028)	7026	0.79635	81.5446	



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.539	6.539	(1.149)	26570	2.51003	257.0226
16 Pyrene	202	6.704	6.704	(0.879)	24660	2.48983	254.9546
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	18982	1.92813	197.4371
19 Chrysene	228	7.645	7.645	(1.002)	35766	3.67247	376.0549
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	43432	5.10862	523.1138(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	15961	1.65912	169.8912(QM)
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	23703	2.69717	276.1859
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.898	(1.127)	14458	2.29538	235.0429(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.128)	7172	1.27910	130.9779(M)
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	15809	1.91924	196.5268

QC Flag Legend

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

Data File: 1CD18031.D

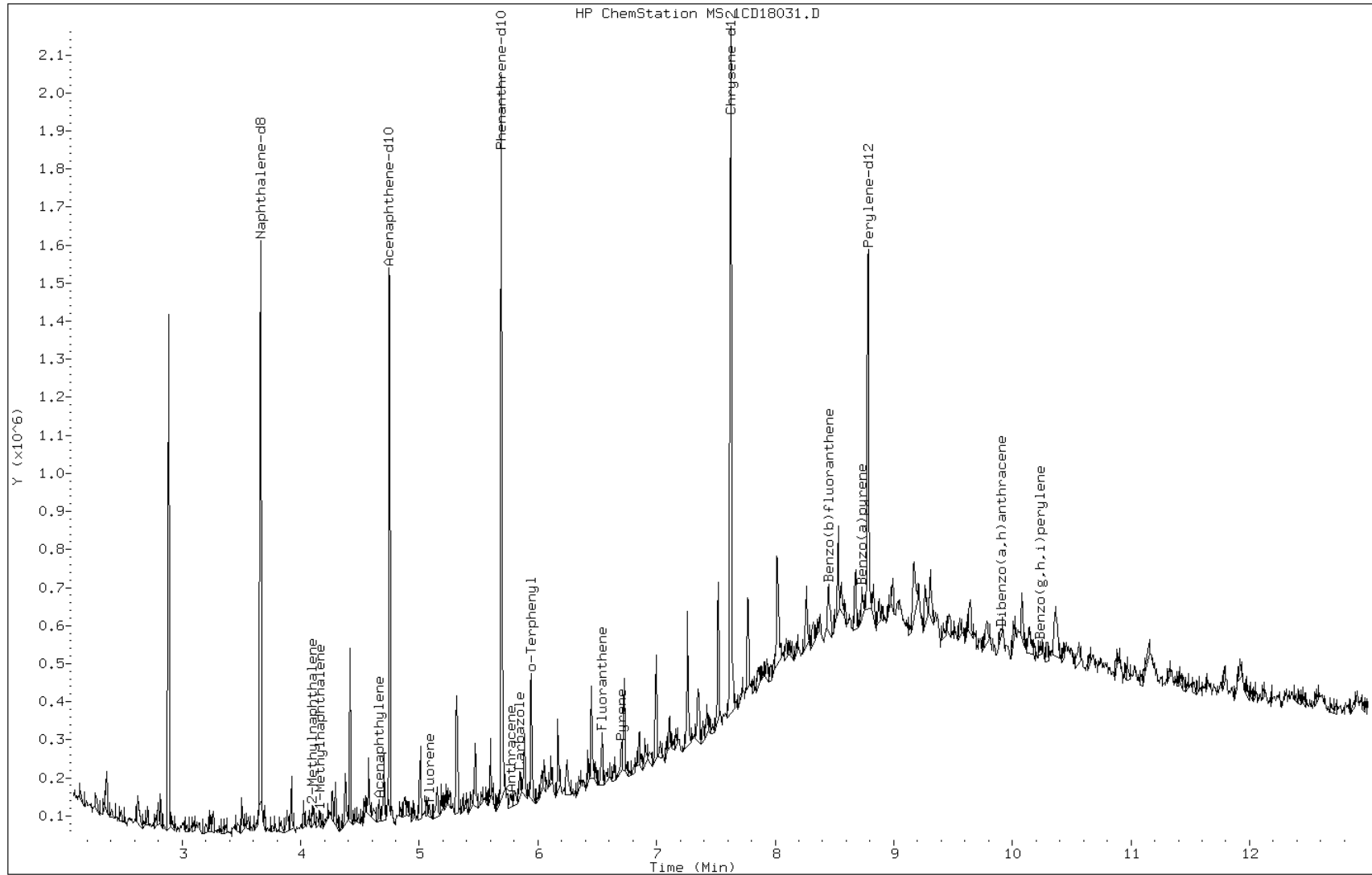
Date: 18-APR-2013 20:34

Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

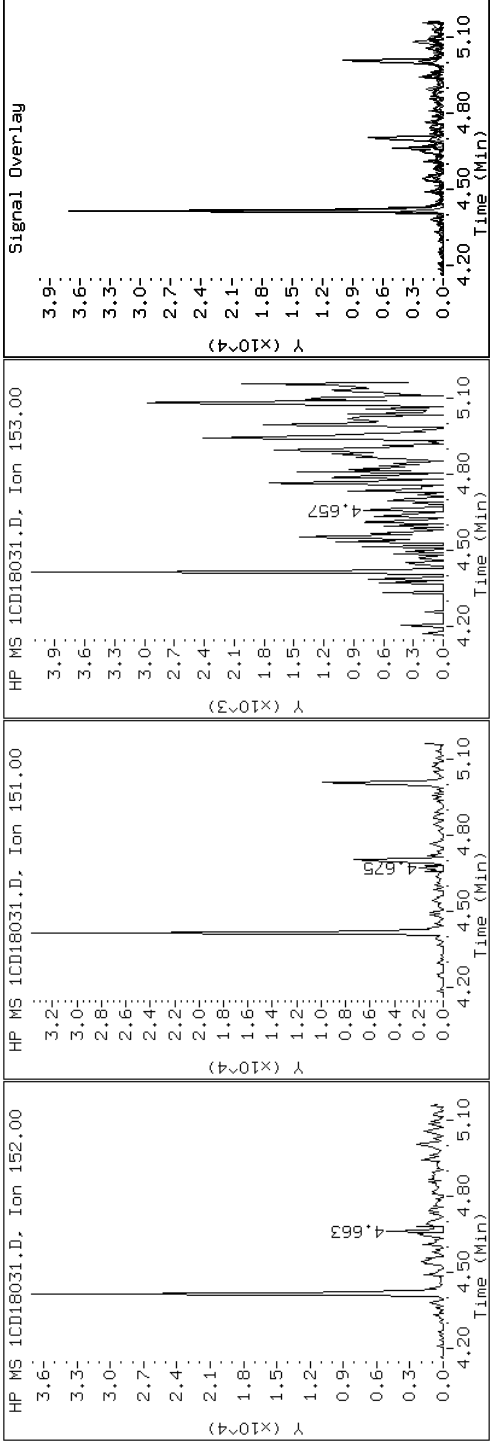
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

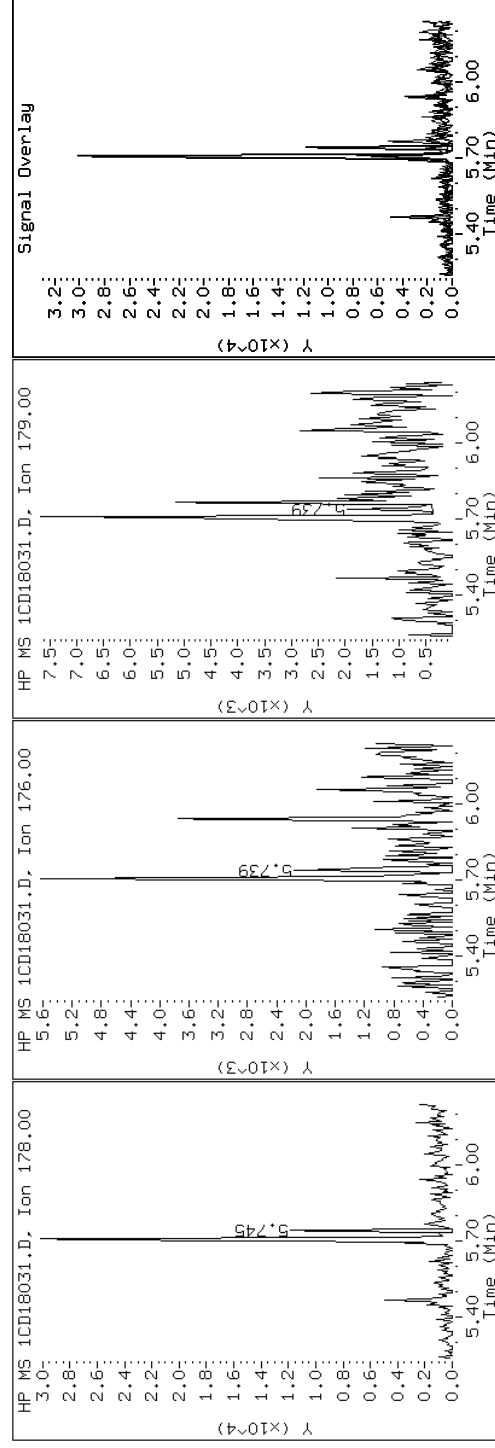
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

### 12 Anthracene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

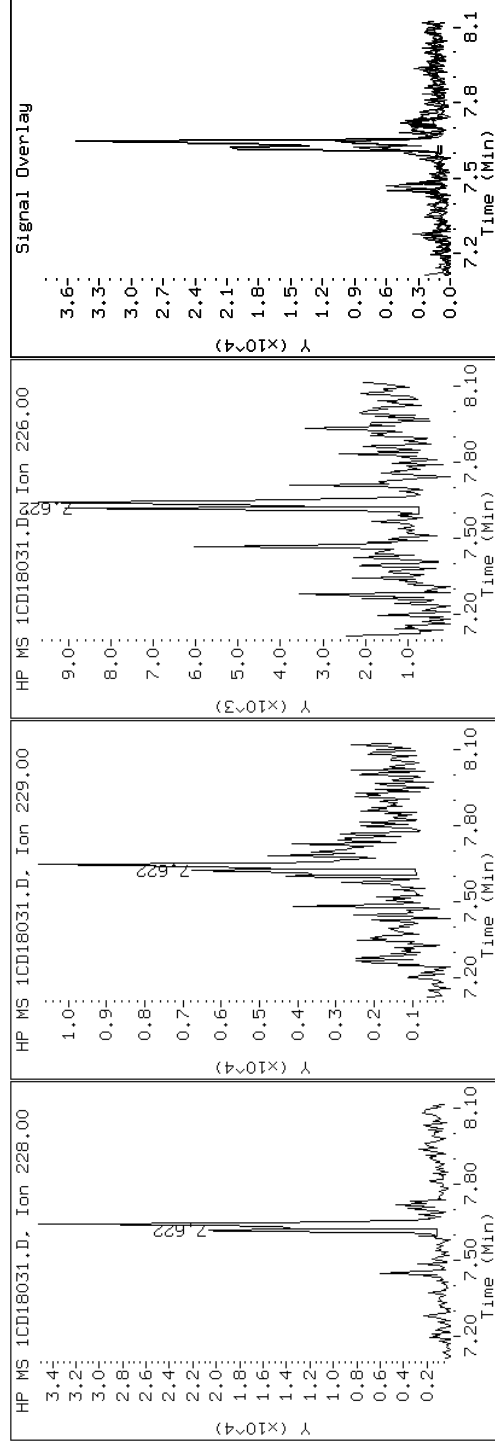
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

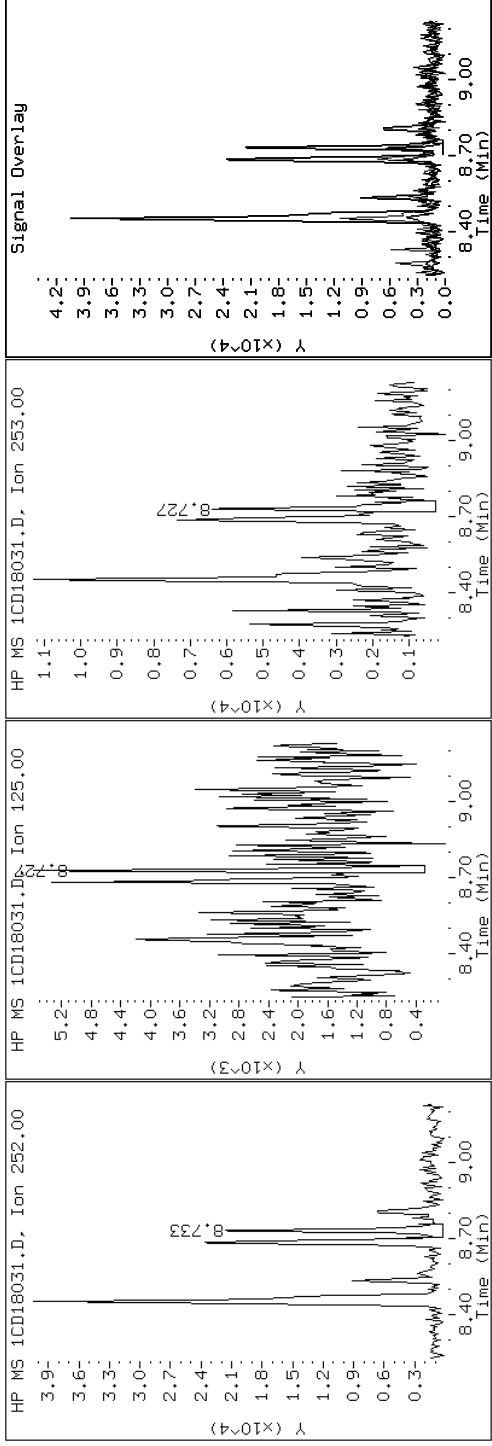
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

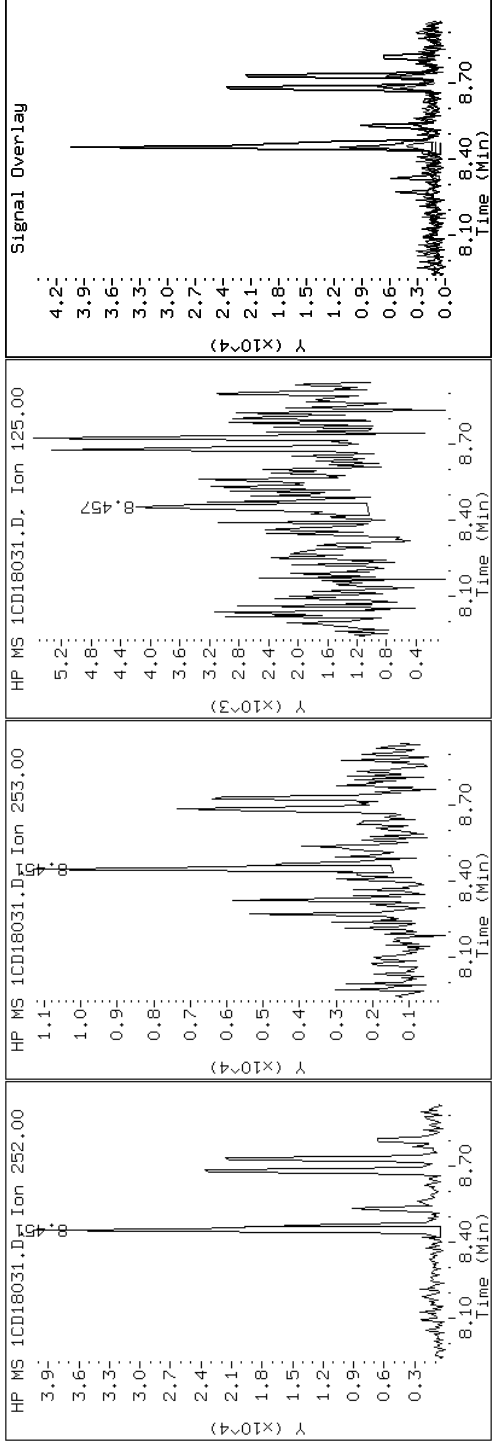
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

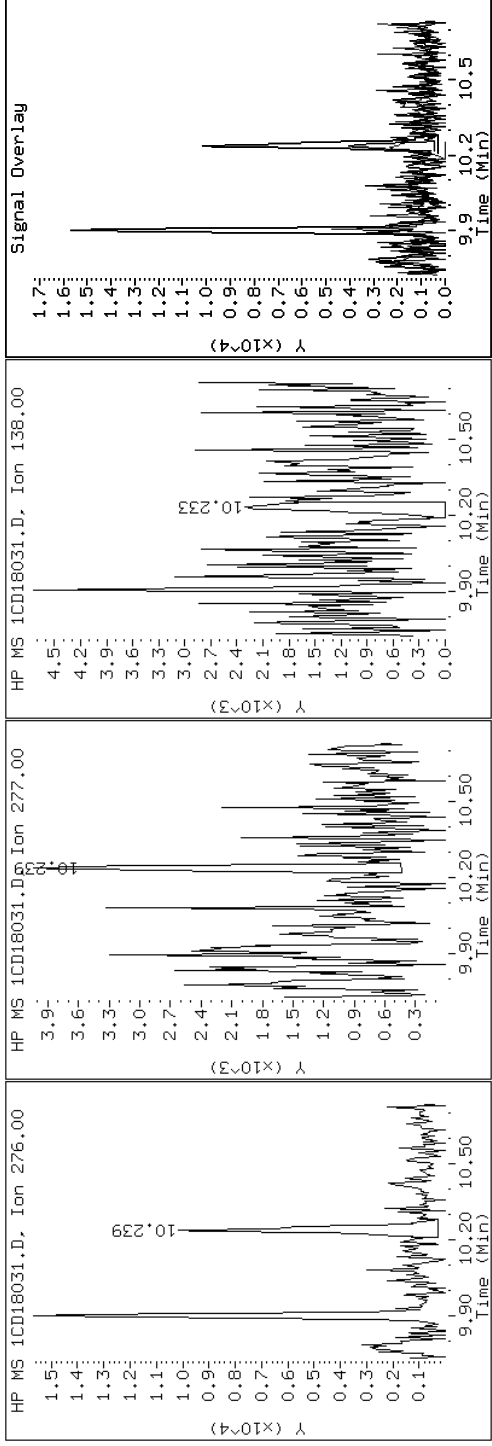
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1CD18031.D

Date: 18-APR-2013 20:34

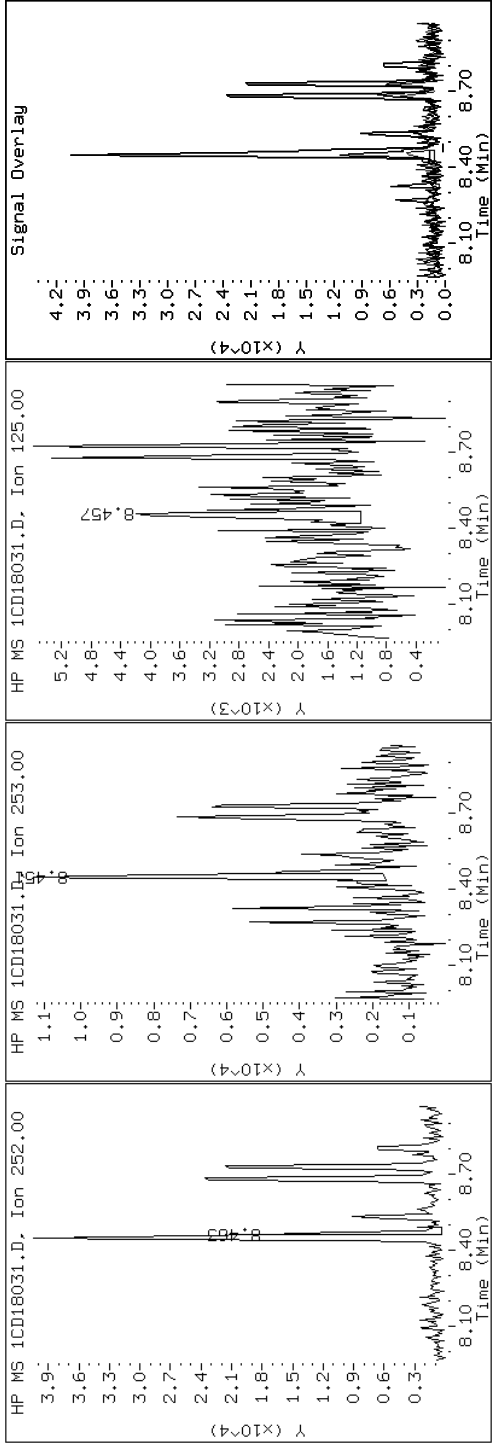
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

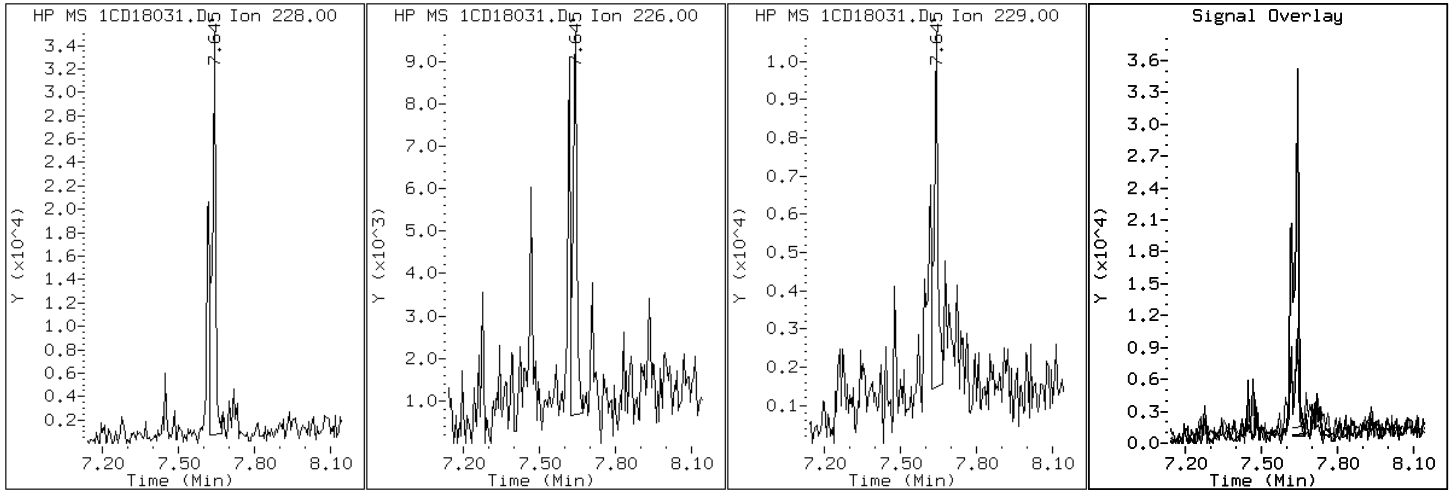
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

19 Chrysene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

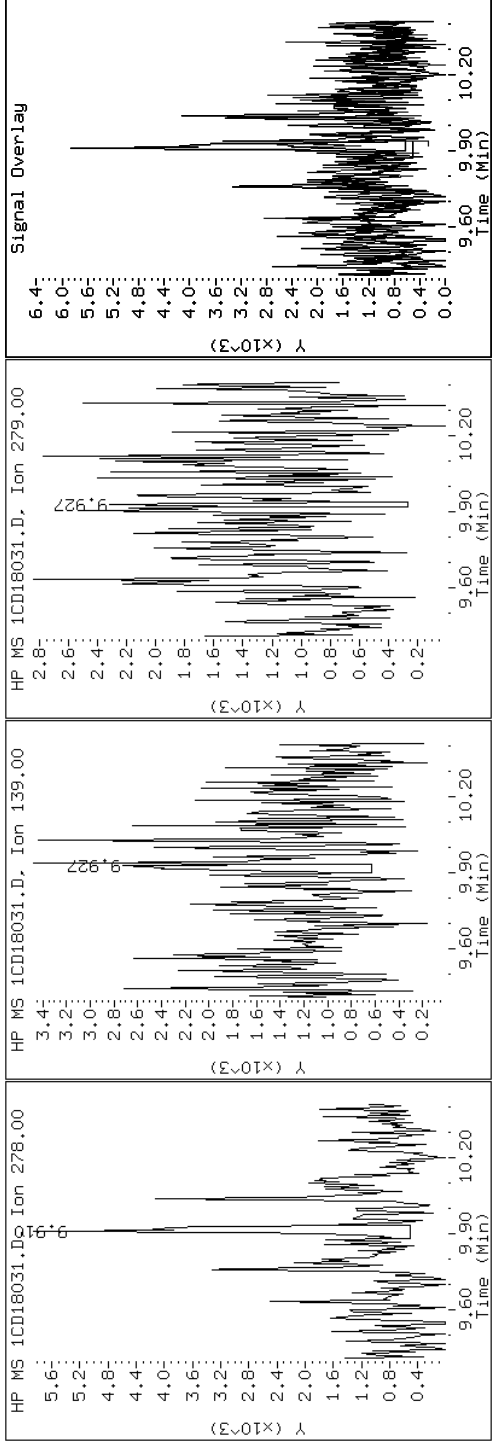
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

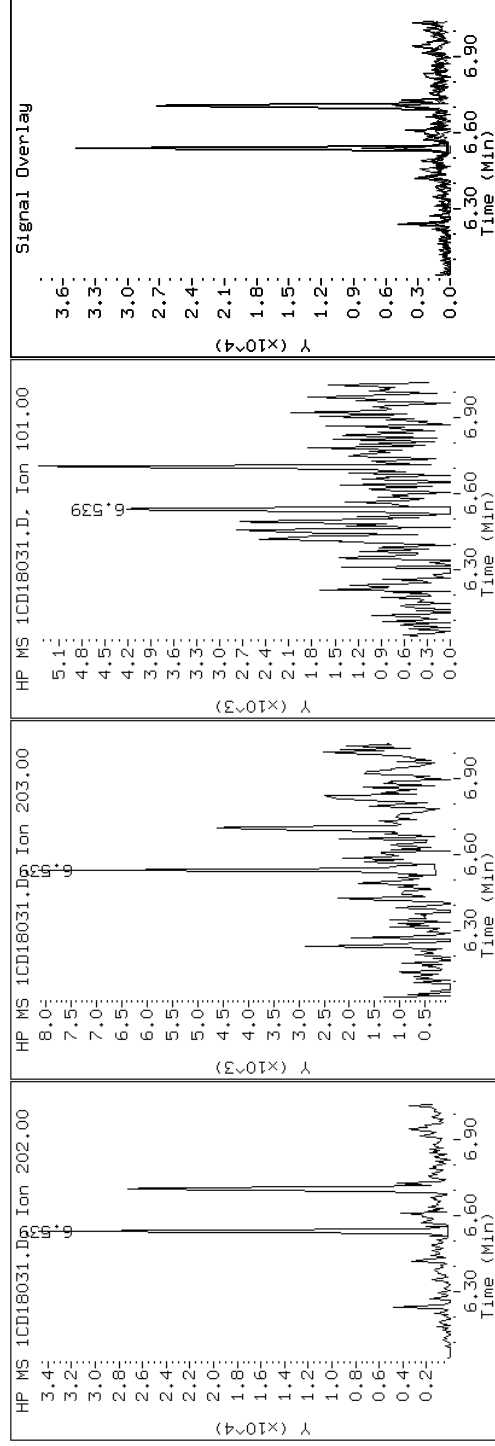
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

### 15 Fluoranthene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

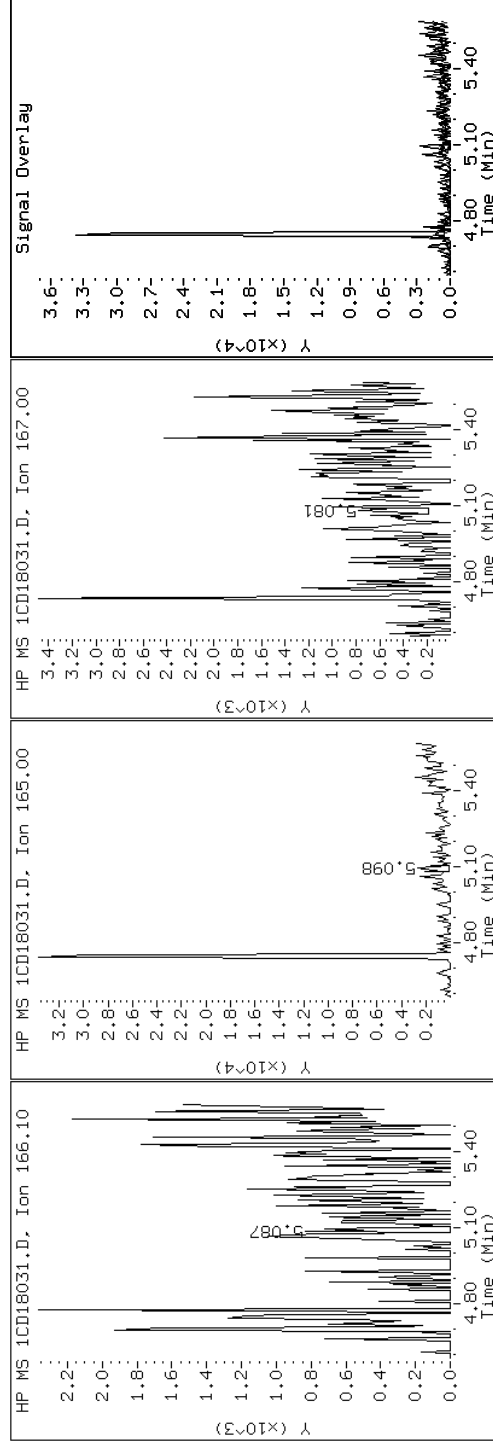
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

9 Fluorene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

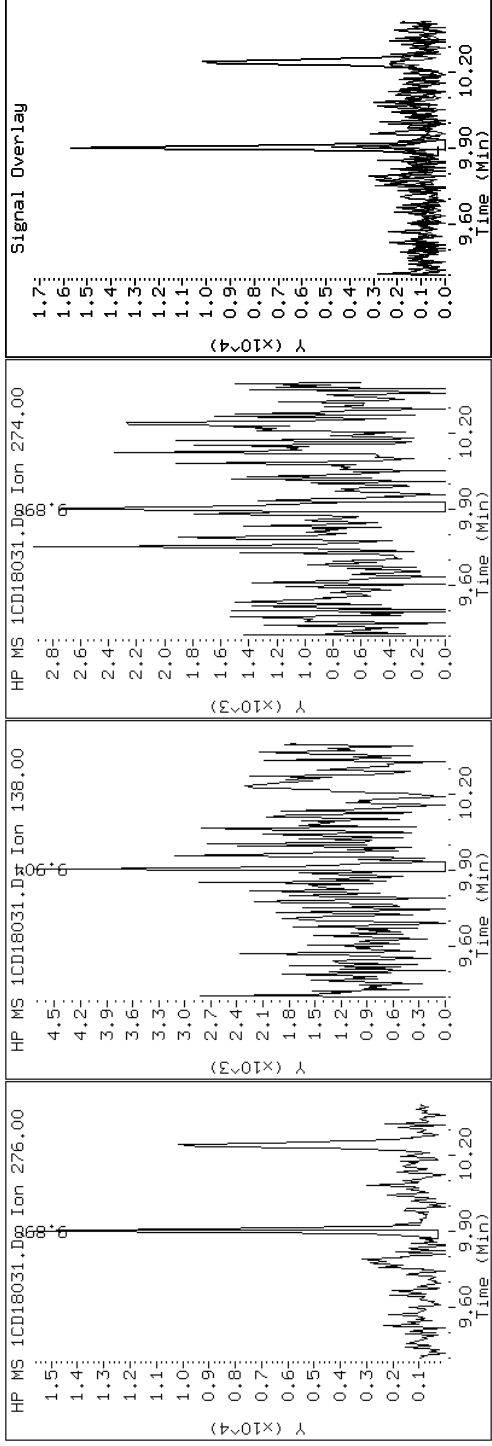
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

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



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

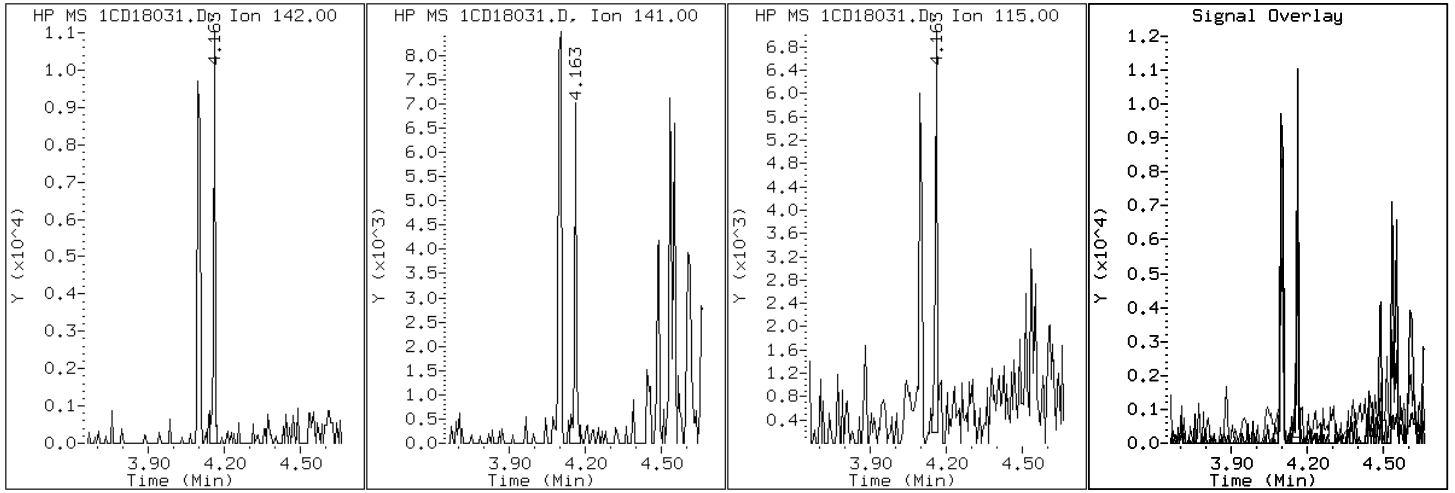
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

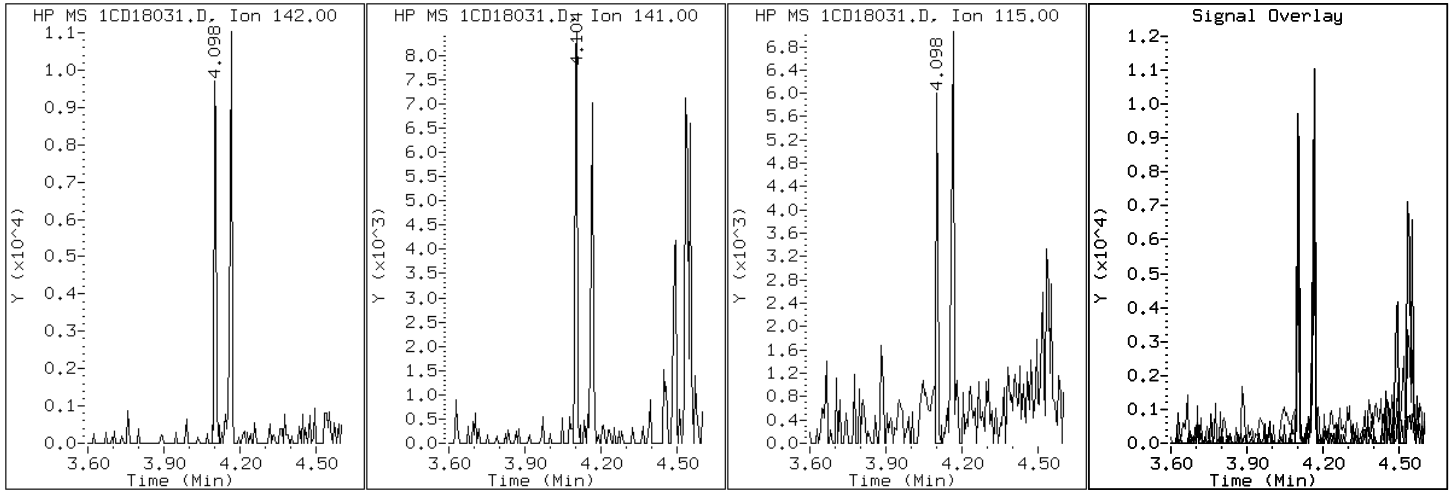
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1CD18031.D

Date: 18-APR-2013 20:34

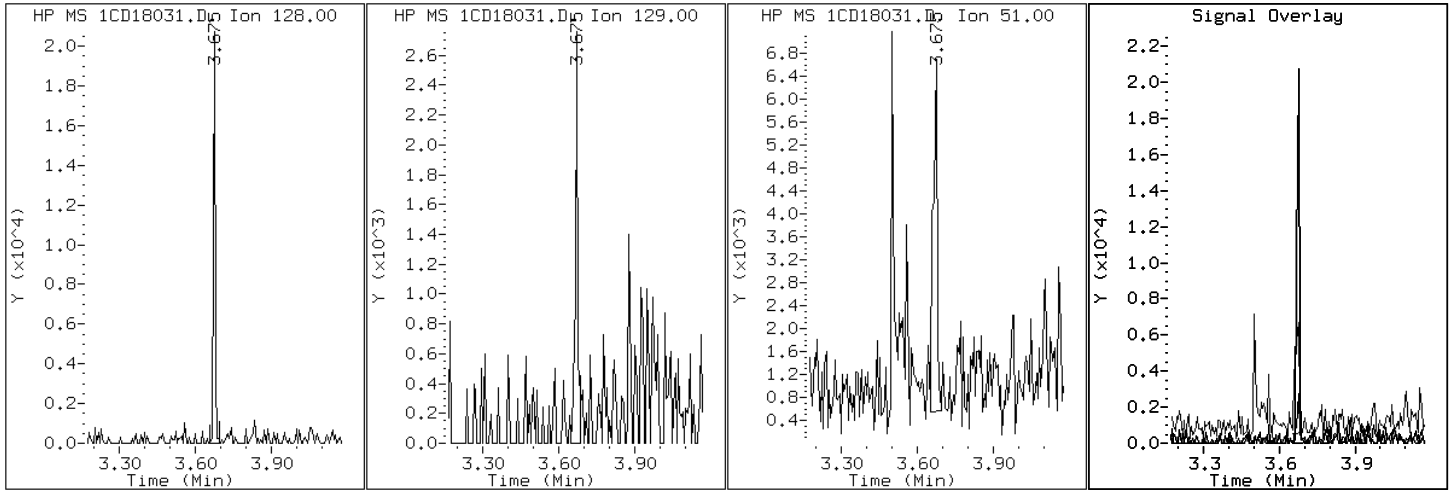
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

2 Naphthalene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

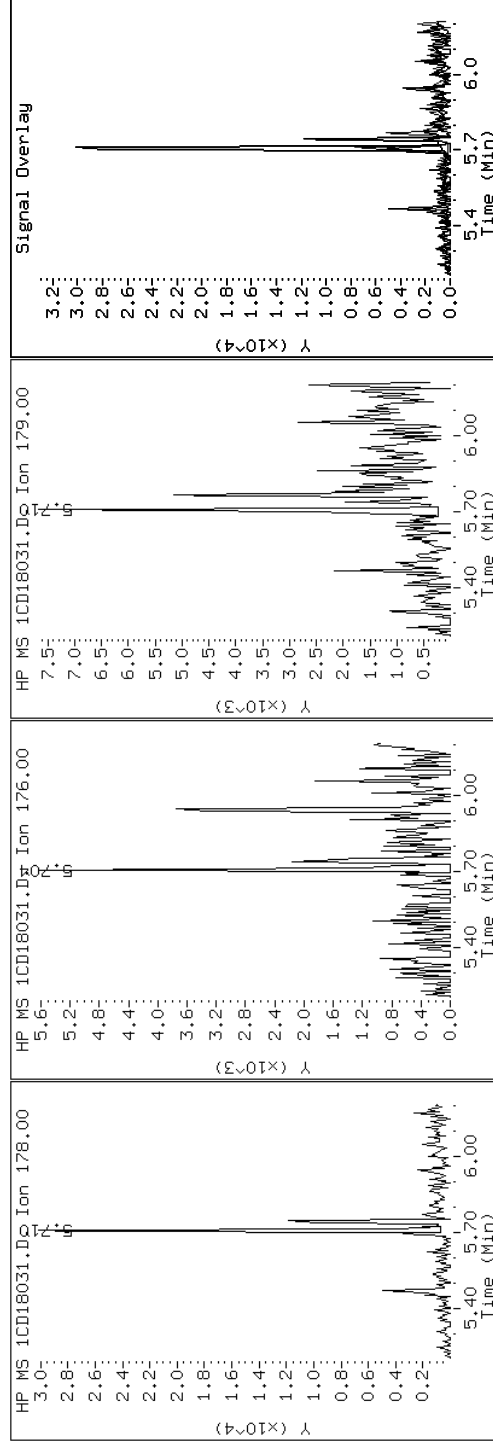
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

### 11 Phenanthrene



Data File: 1CD18031.D

Date: 18-APR-2013 20:34

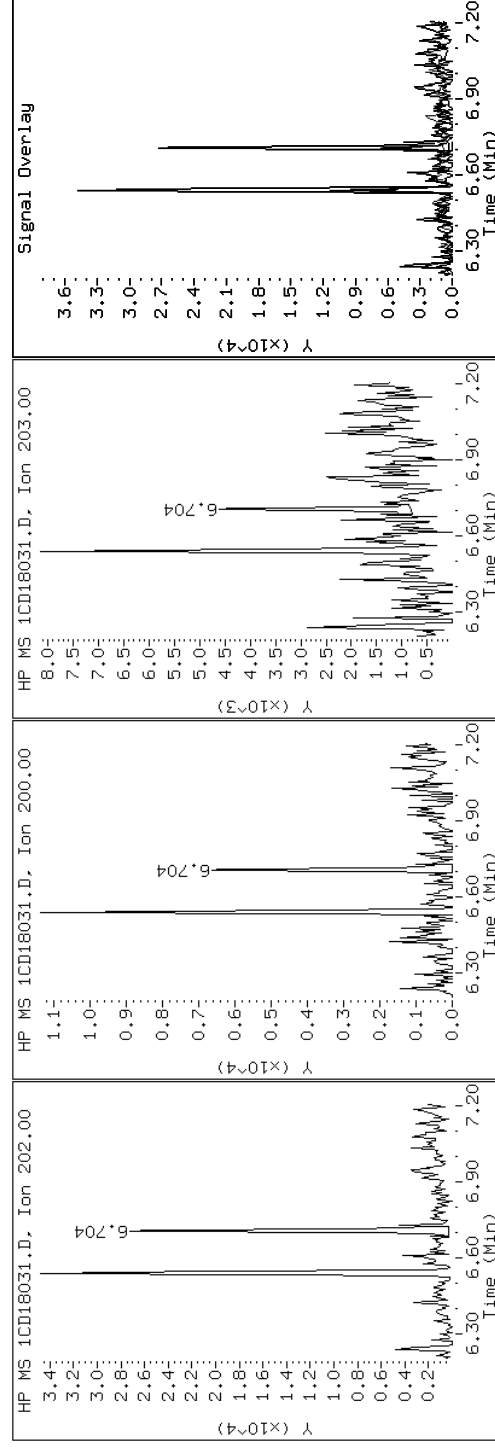
Client ID: CV0675A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-30-a

Operator: SCC

16 Pyrene

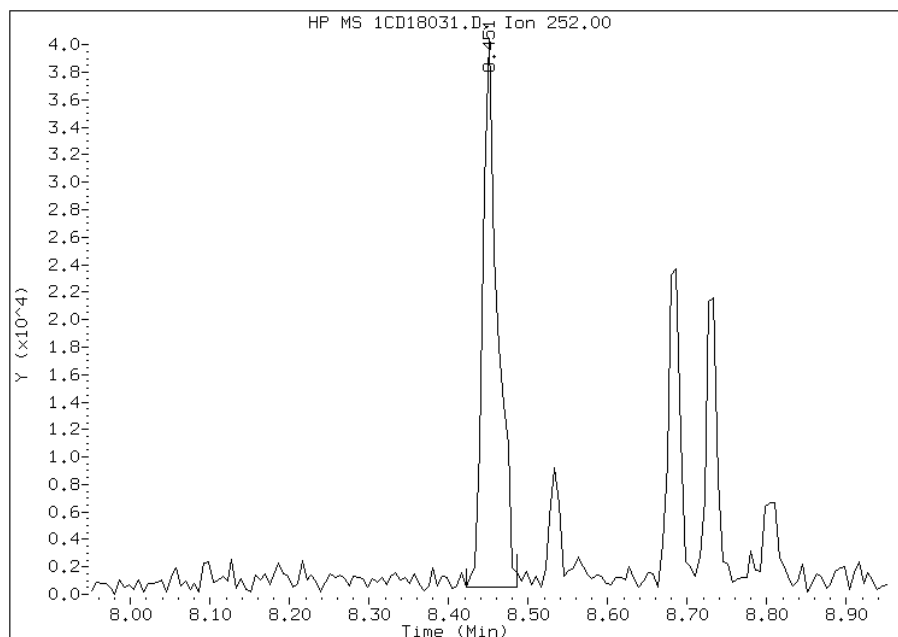


# Manual Integration Report

Data File: 1CD18031.D  
Inj. Date and Time: 18-APR-2013 20:34  
Instrument ID: BSMC5973.i  
Client ID: CV0675A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

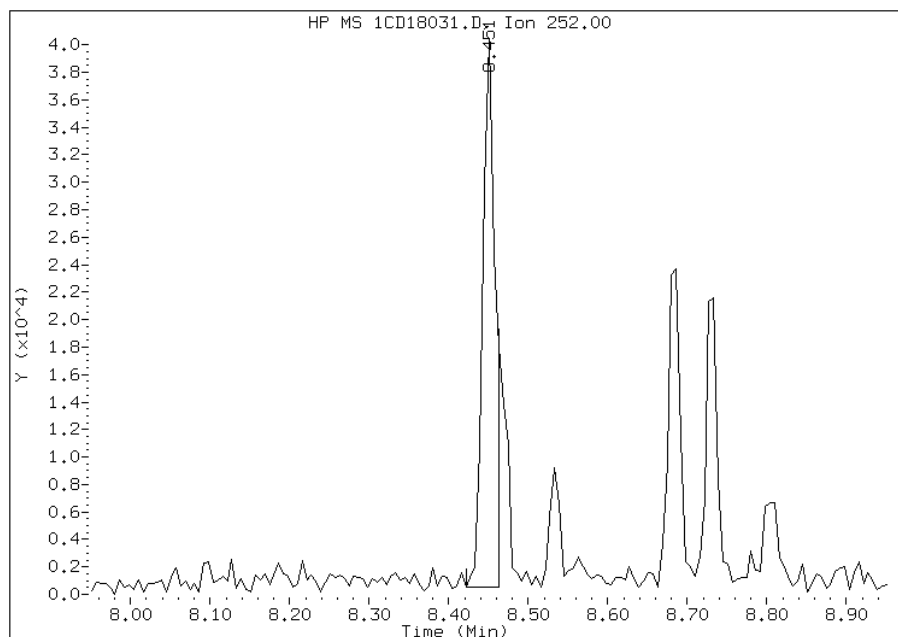
## Processing Integration Results

RT: 8.45  
Response: 52616  
Amount: 6  
Conc: 634



## Manual Integration Results

RT: 8.45  
Response: 43432  
Amount: 5  
Conc: 523



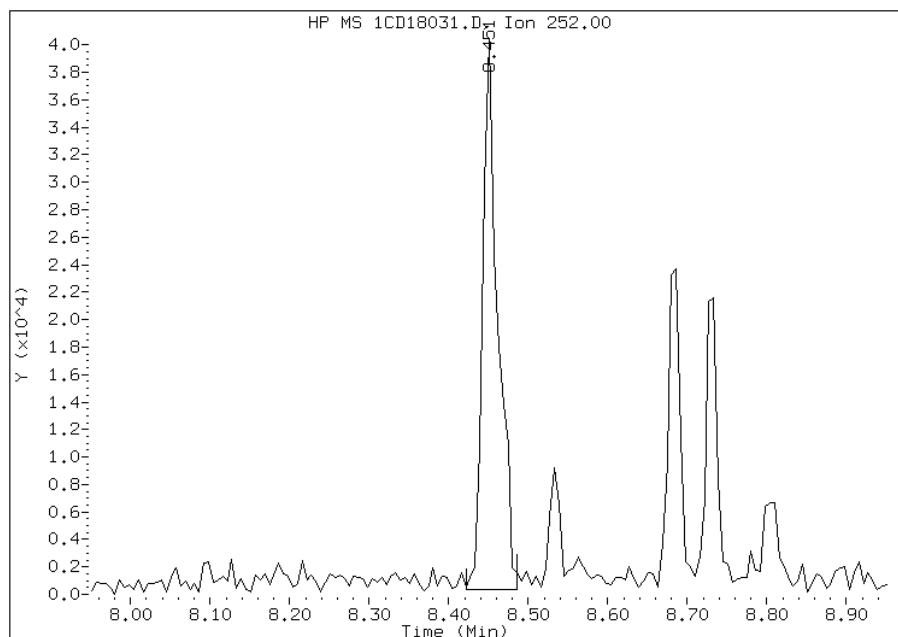
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:35  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18031.D  
Inj. Date and Time: 18-APR-2013 20:34  
Instrument ID: BSMC5973.i  
Client ID: CV0675A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

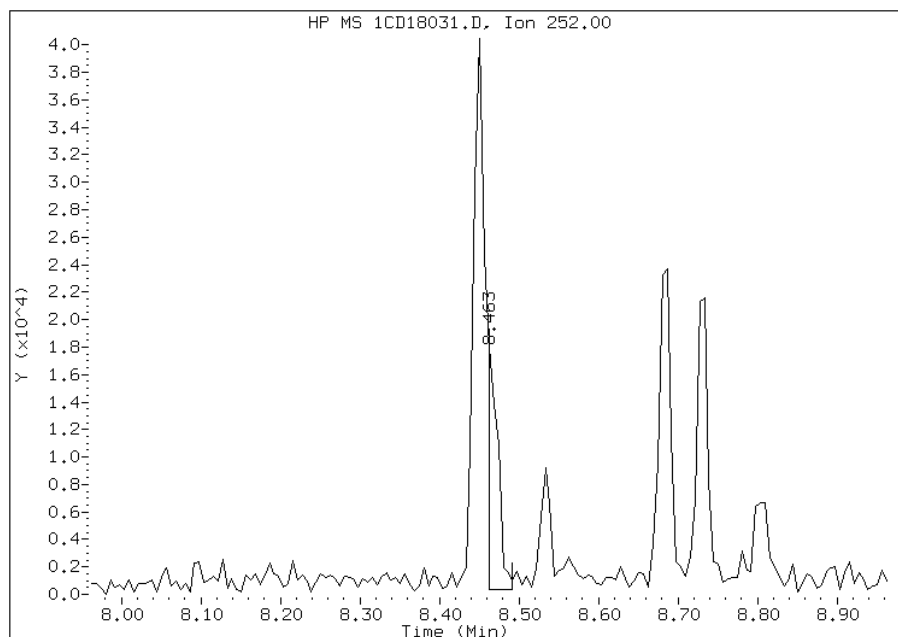
## Processing Integration Results

RT: 8.45  
Response: 53361  
Amount: 6  
Conc: 568



## Manual Integration Results

RT: 8.46  
Response: 15961  
Amount: 2  
Conc: 170



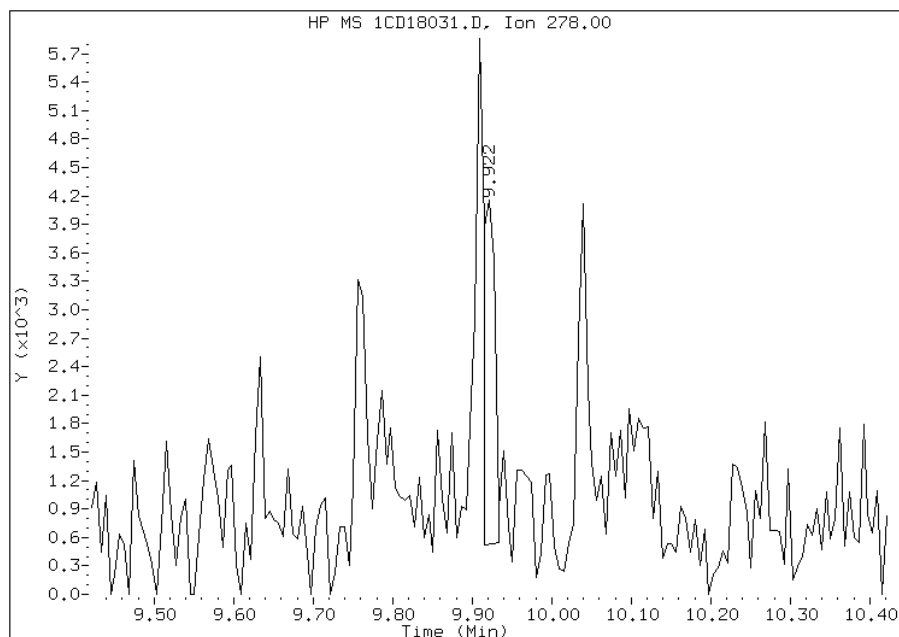
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18031.D  
Inj. Date and Time: 18-APR-2013 20:34  
Instrument ID: BSMC5973.i  
Client ID: CV0675A-CS-SP  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/19/2013

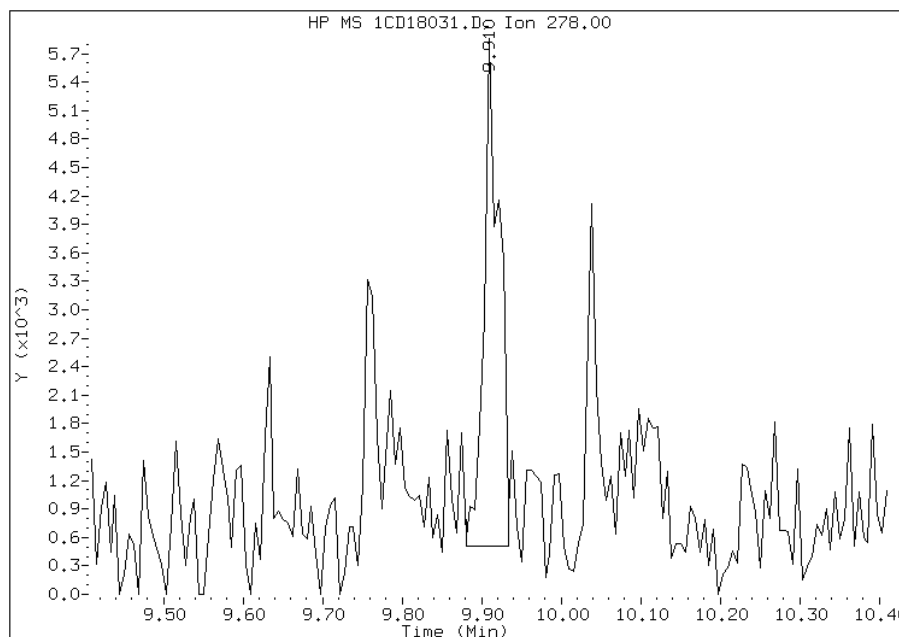
## Processing Integration Results

RT: 9.92  
Response: 3644  
Amount: 1  
Conc: 89



## Manual Integration Results

RT: 9.91  
Response: 7172  
Amount: 1  
Conc: 131



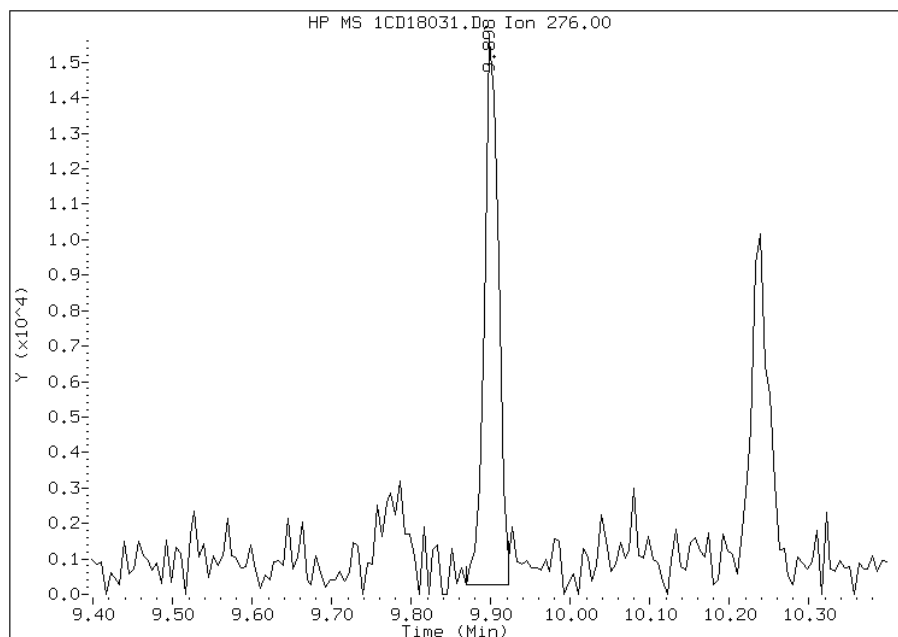
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18031.D  
Inj. Date and Time: 18-APR-2013 20:34  
Instrument ID: BSMC5973.i  
Client ID: CV0675A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

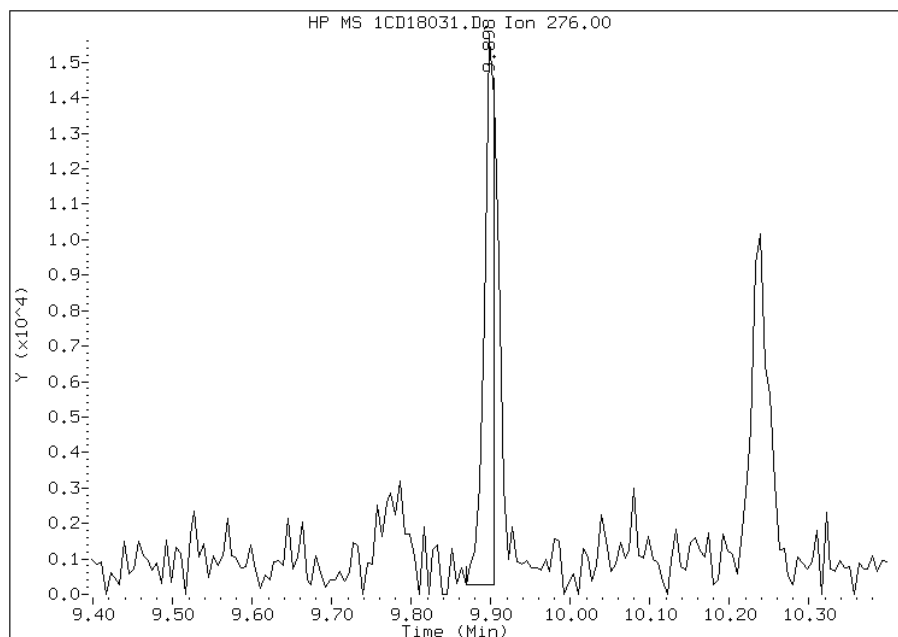
## Processing Integration Results

RT: 9.90  
Response: 18887  
Amount: 3  
Conc: 287



## Manual Integration Results

RT: 9.90  
Response: 14458  
Amount: 2  
Conc: 235



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:37  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV0675B-CS-SP Lab Sample ID: 680-89220-31  
 Matrix: Solid Lab File ID: 1CD18032.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 12:52  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.24(g) Date Analyzed: 04/18/2013 20:52  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 31.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	48	J	57	7.1
120-12-7	Anthracene	42		12	6.0
56-55-3	Benzo[a]anthracene	170		11	5.6
50-32-8	Benzo[a]pyrene	160		15	7.4
205-99-2	Benzo[b]fluoranthene	290		17	8.7
191-24-2	Benzo[g,h,i]perylene	120		29	6.3
207-08-9	Benzo[k]fluoranthene	170		11	5.1
218-01-9	Chrysene	260		13	6.4
53-70-3	Dibenz(a,h)anthracene	29	U	29	5.9
206-44-0	Fluoranthene	490		29	5.7
86-73-7	Fluorene	14	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	180		29	10
90-12-0	1-Methylnaphthalene	50	J	57	6.3
91-57-6	2-Methylnaphthalene	69		57	10
91-20-3	Naphthalene	80		57	6.3
85-01-8	Phenanthrene	380		11	5.6
129-00-0	Pyrene	370		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18032.D  
 Lab Smp Id: 680-89220-A-31-A Client Smp ID: CV0675B-CS-SP  
 Inj Date : 18-APR-2013 20:52  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-31-a  
 Misc Info : 680-89220-A-31-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 32  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	31.020	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	229571	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	169206	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	306584	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	34610	7.50681	714.0752
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	348480	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	327184	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	5225	0.84197	80.0916(Q)
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	1897	0.72979	69.4203
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	2074	0.52322	49.7703
5 Acenaphthylene	152		4.663	4.663	(0.981)	3603	0.50252	47.8014
9 Fluorene	166		5.092	5.086	(1.072)	834	0.15167	14.4278(Q)
11 Phenanthrene	178		5.710	5.704	(1.003)	35865	3.99099	379.6378
12 Anthracene	178		5.745	5.739	(1.009)	3907	0.43897	41.7560
13 Carbazole	167		5.851	5.851	(1.028)	5988	0.72236	68.7139

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.539	6.539	(1.149)	51681	5.19634	494.2953
16 Pyrene	202	6.710	6.704	(0.880)	38132	3.84632	365.8762
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	17990	1.82559	173.6572
19 Chrysene	228	7.645	7.645	(1.002)	26811	2.75030	261.6187
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	25396	3.07315	292.3294(M)
21 Benzo(k)fluoranthene	252	8.456	8.468	(0.963)	16347	1.74816	166.2914(M)
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	14594	1.70846	162.5150
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.898	(1.128)	10758	1.90707	181.4071
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.165)	10263	1.28181	121.9306(M)

QC Flag Legend

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

Data File: 1CD18032.D

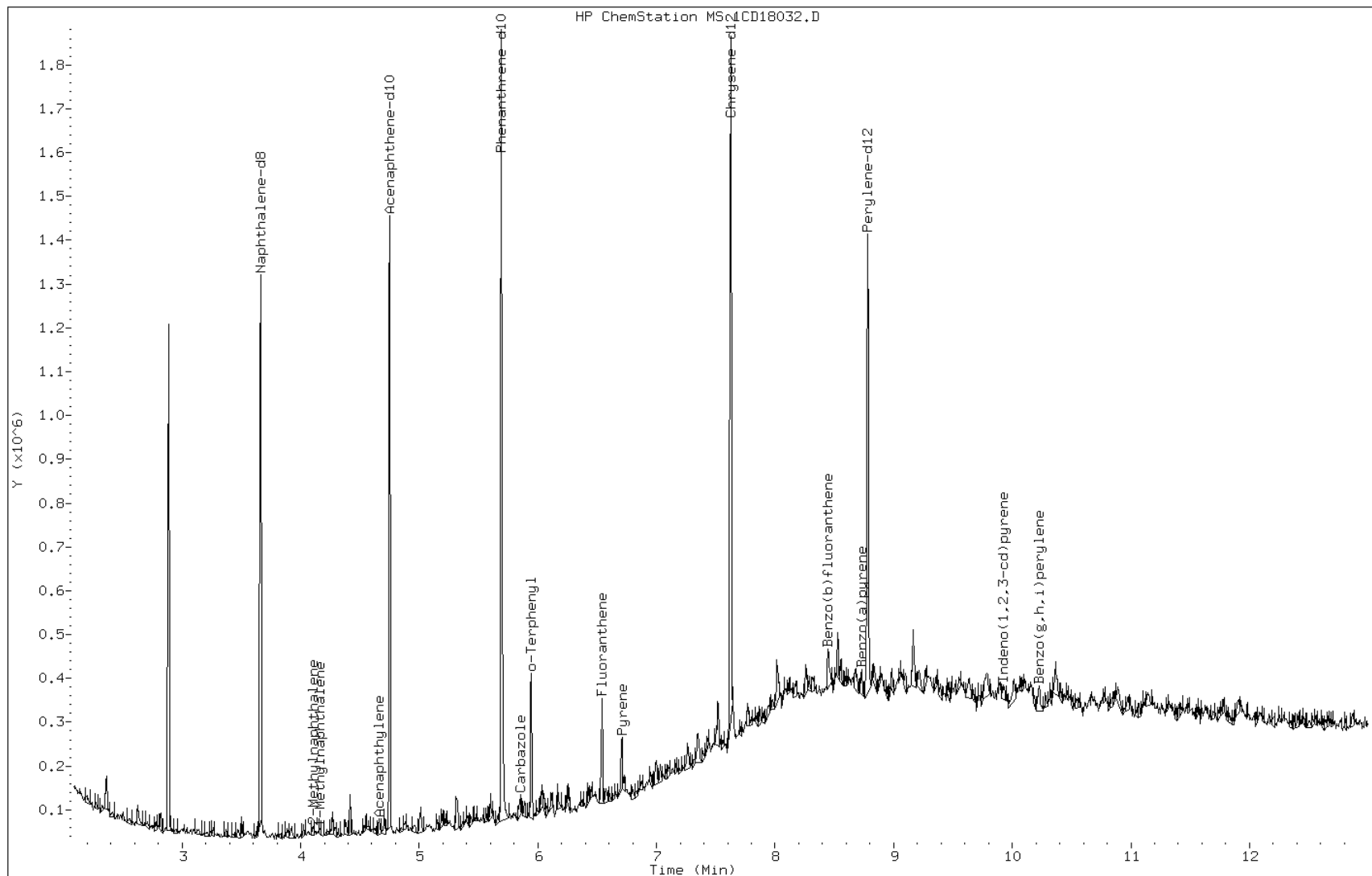
Date: 18-APR-2013 20:52

Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

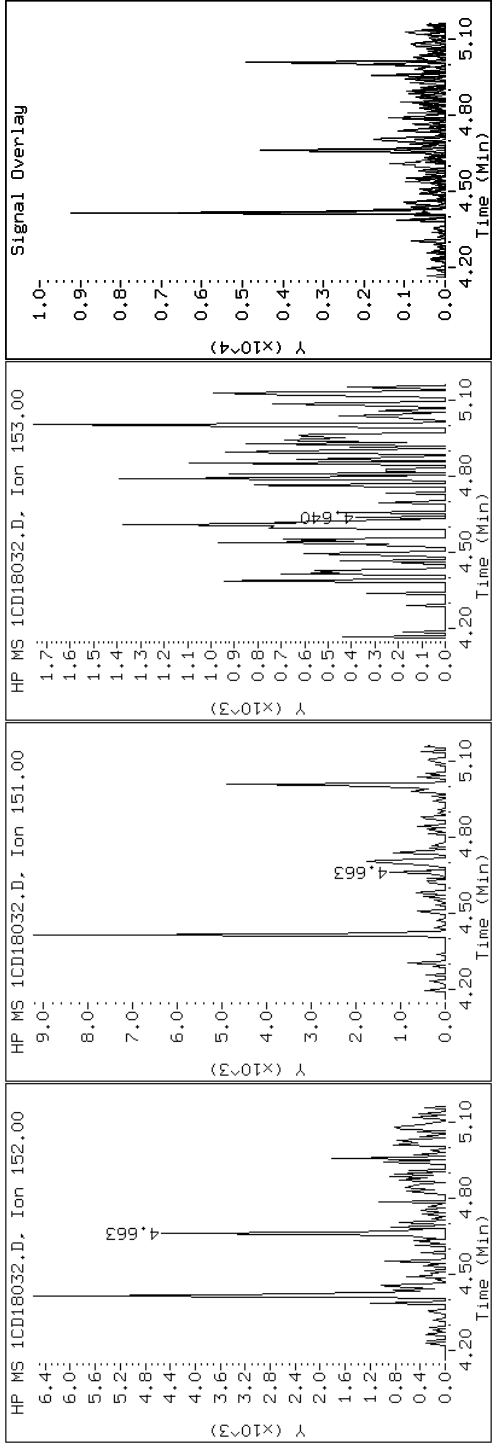
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

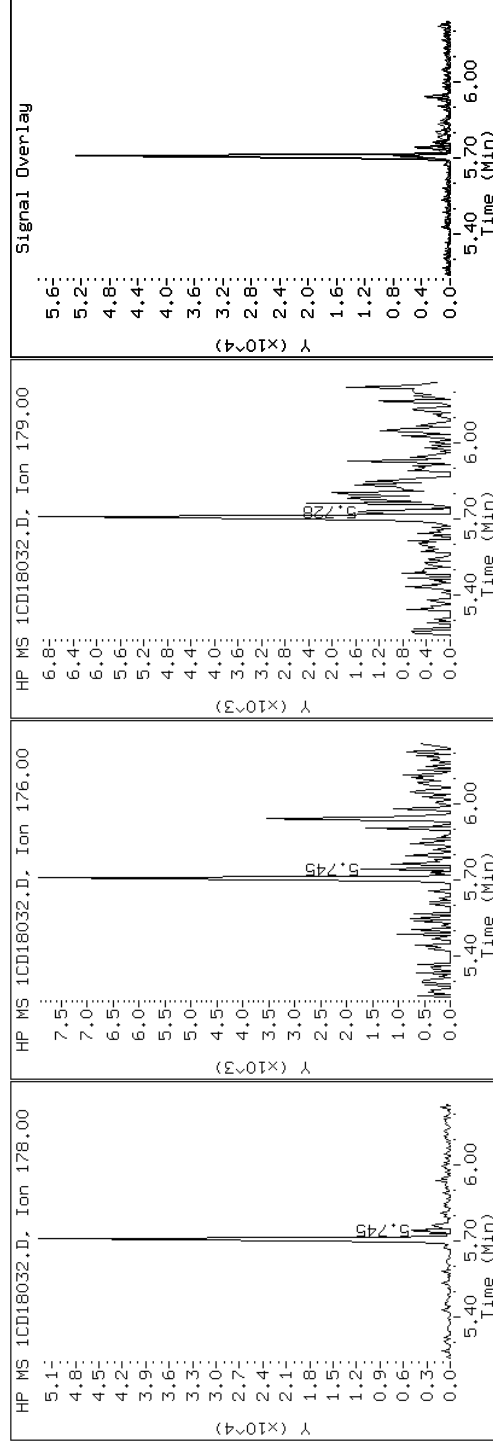
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

12 Anthracene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

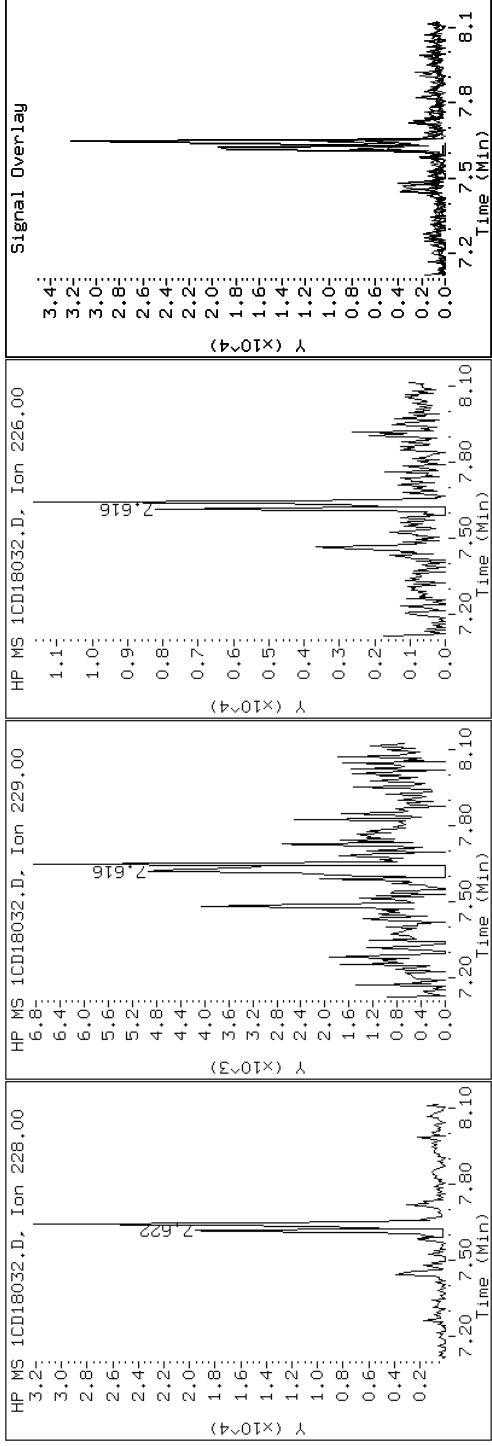
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

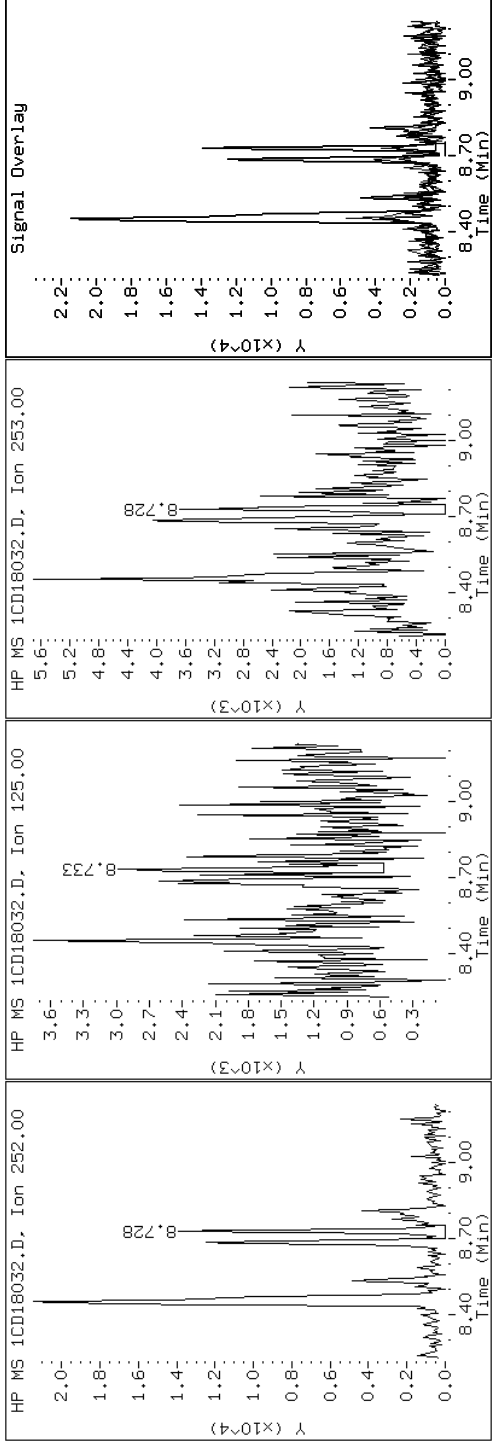
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

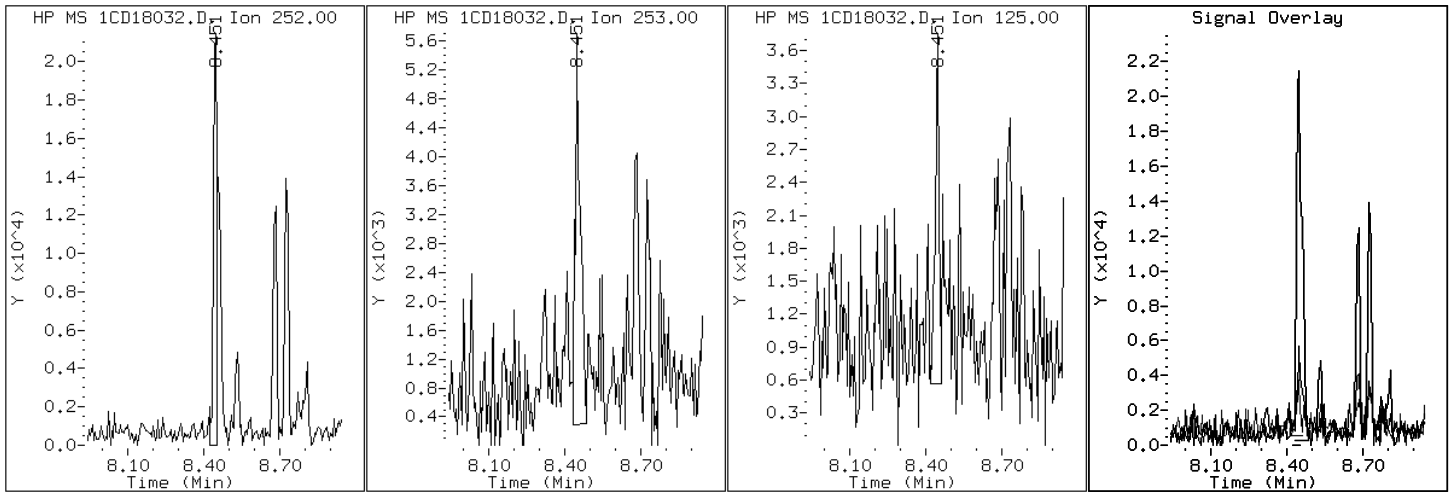
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

20 Benzo(b)fluoranthene





Data File: 1CD18032.D

Date: 18-APR-2013 20:52

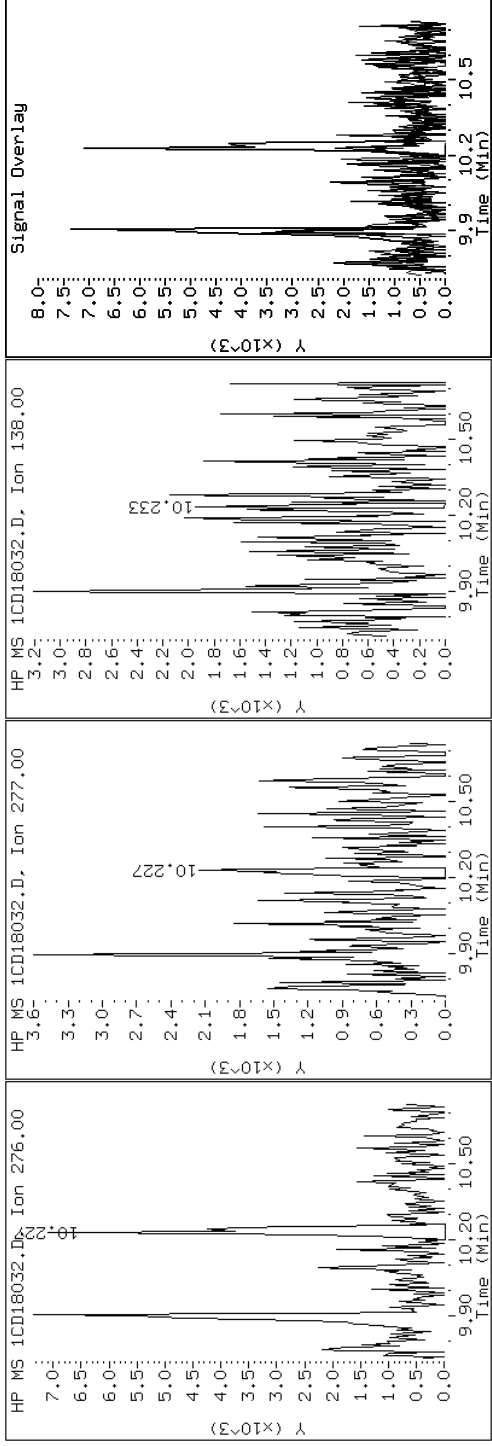
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

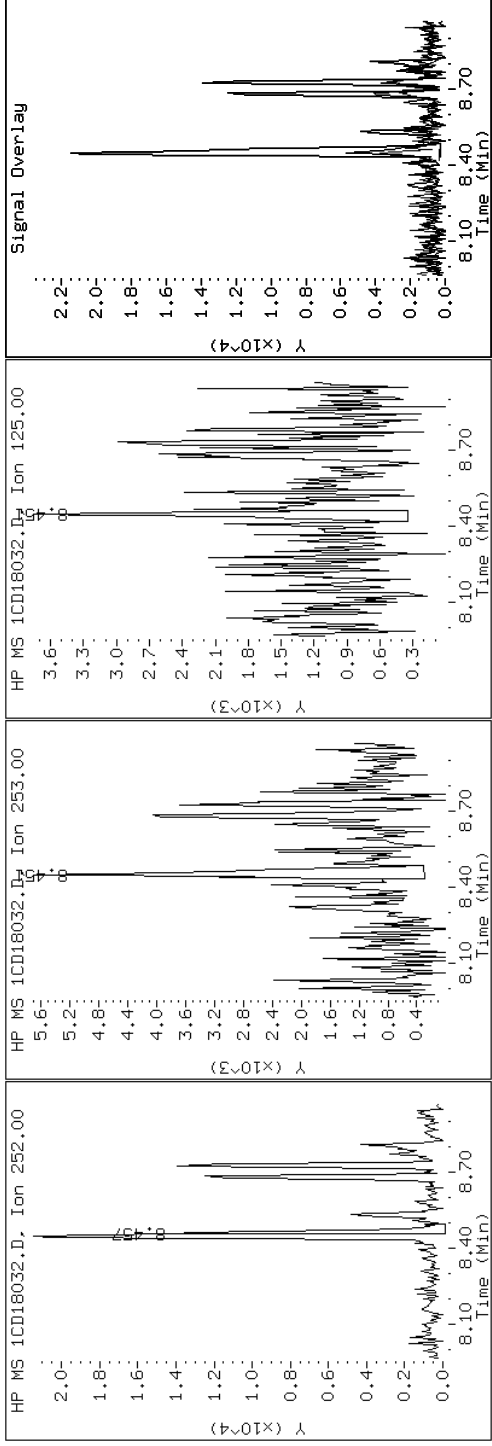
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

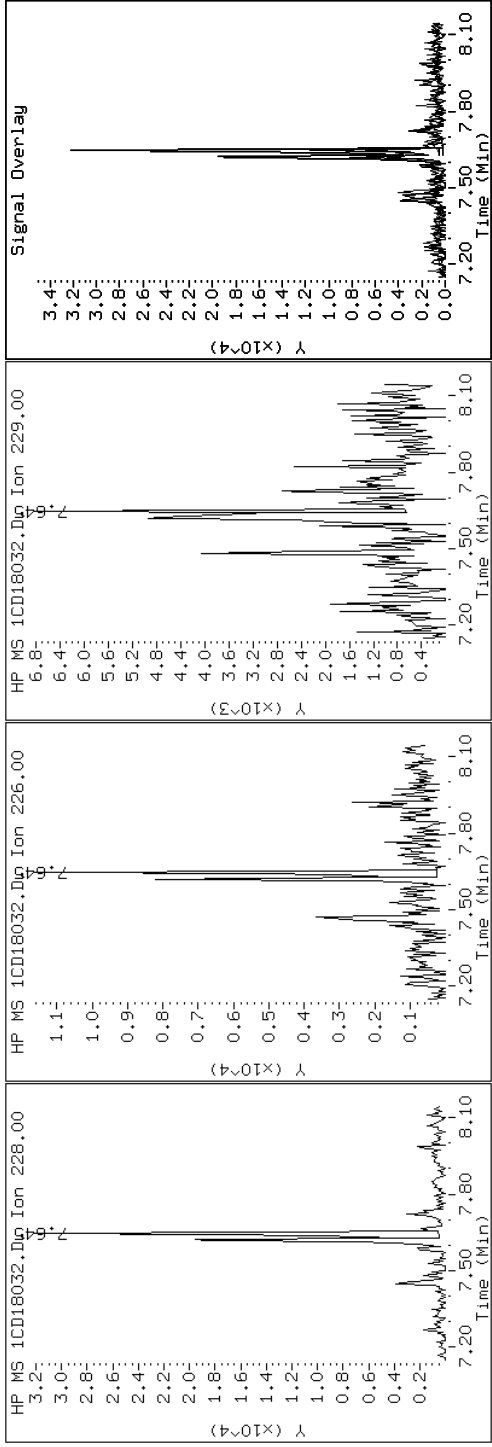
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

19 Chrysene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

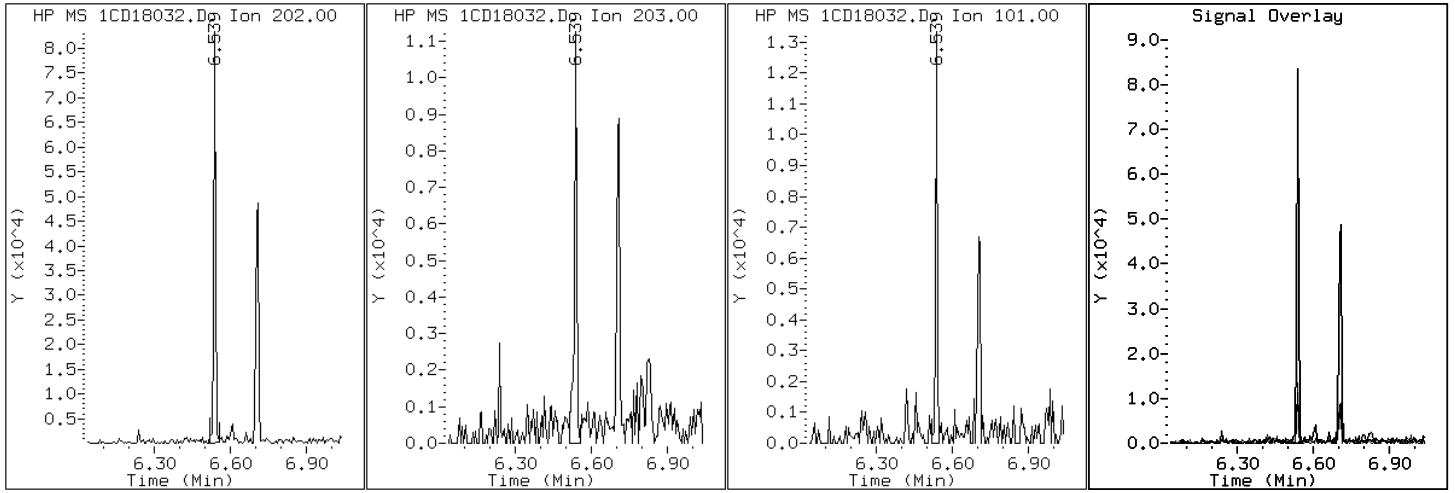
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

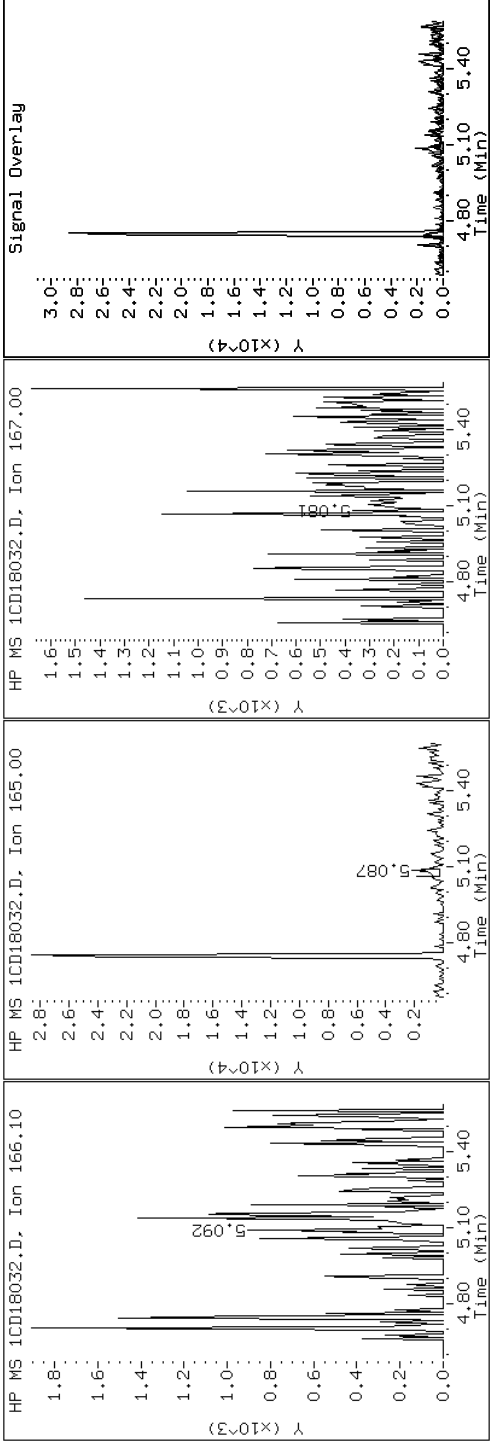
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

9 Fluorene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

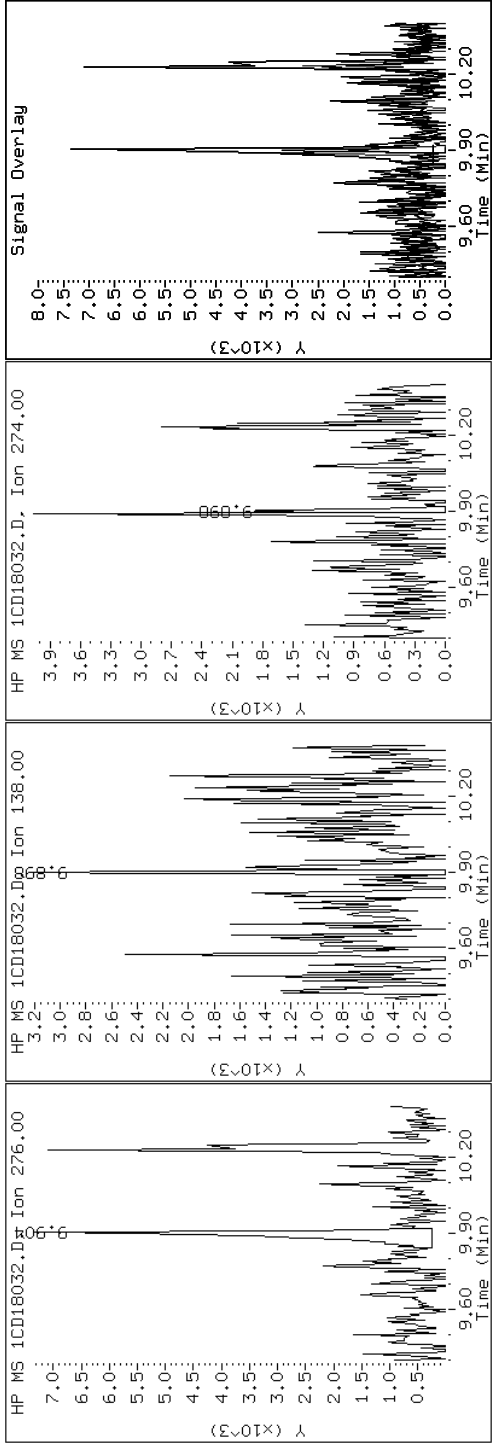
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

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



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

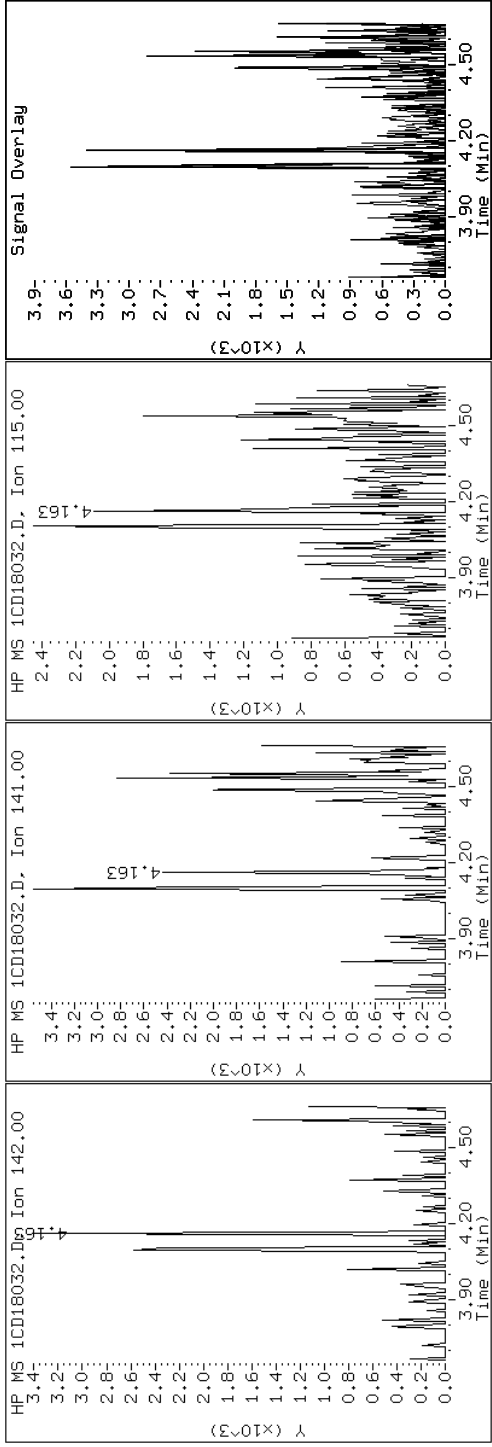
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

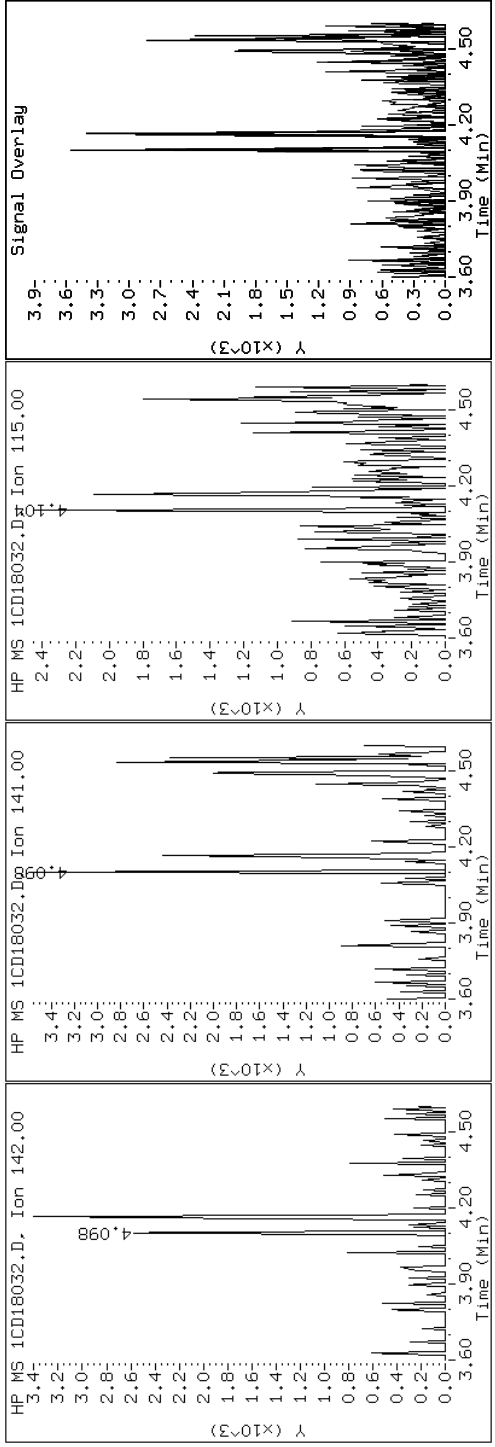
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1CD18032.D

Date: 18-APR-2013 20:52

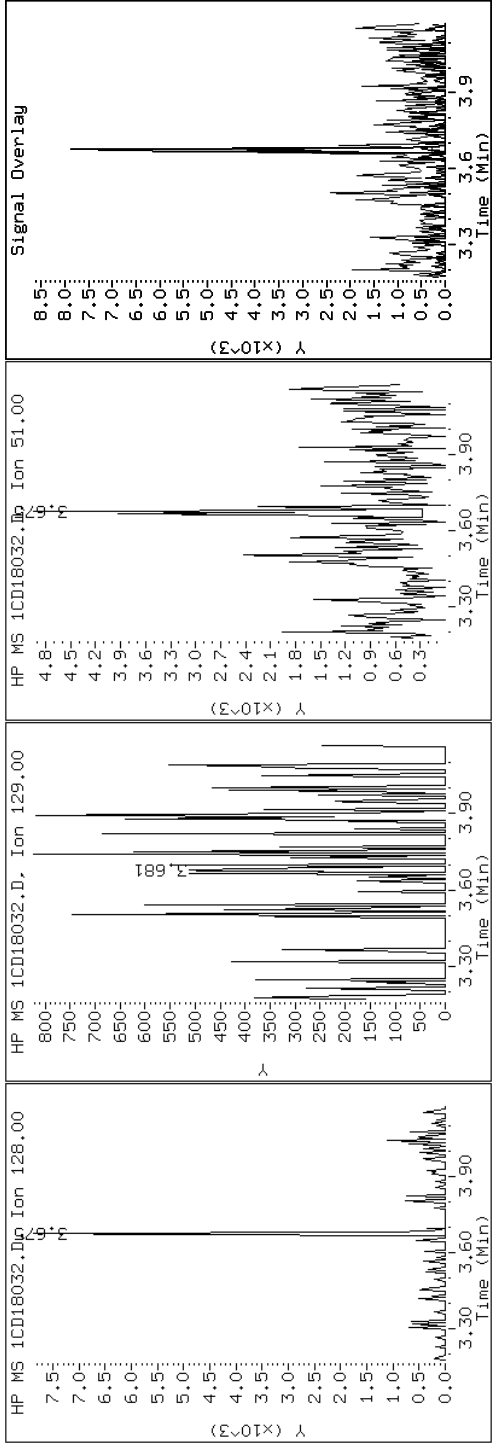
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

2 Naphthalene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

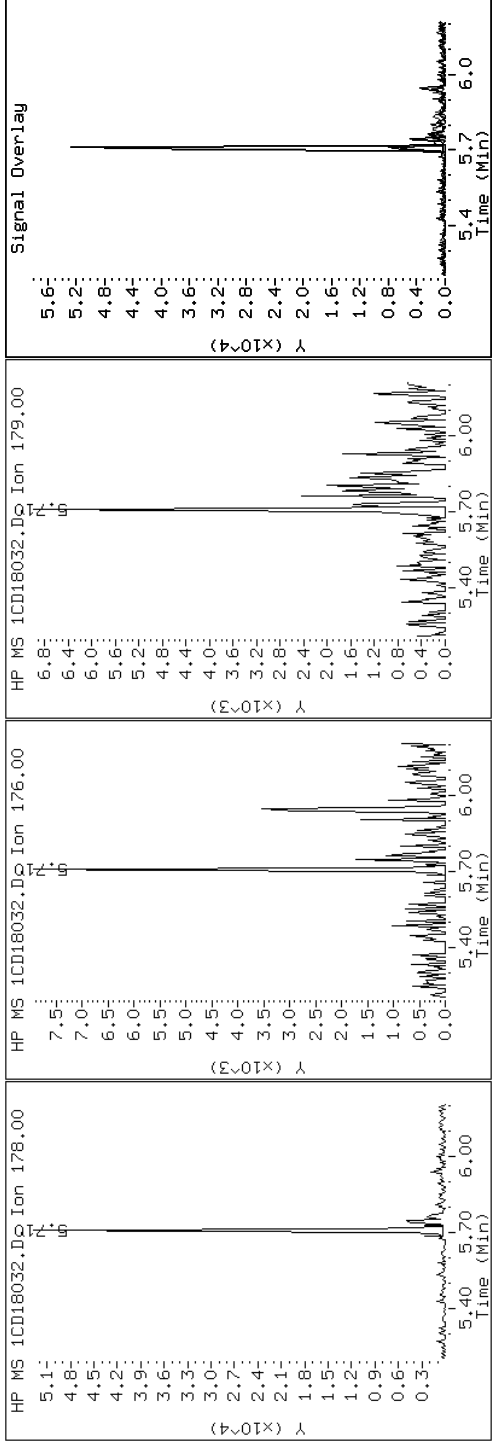
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18032.D

Date: 18-APR-2013 20:52

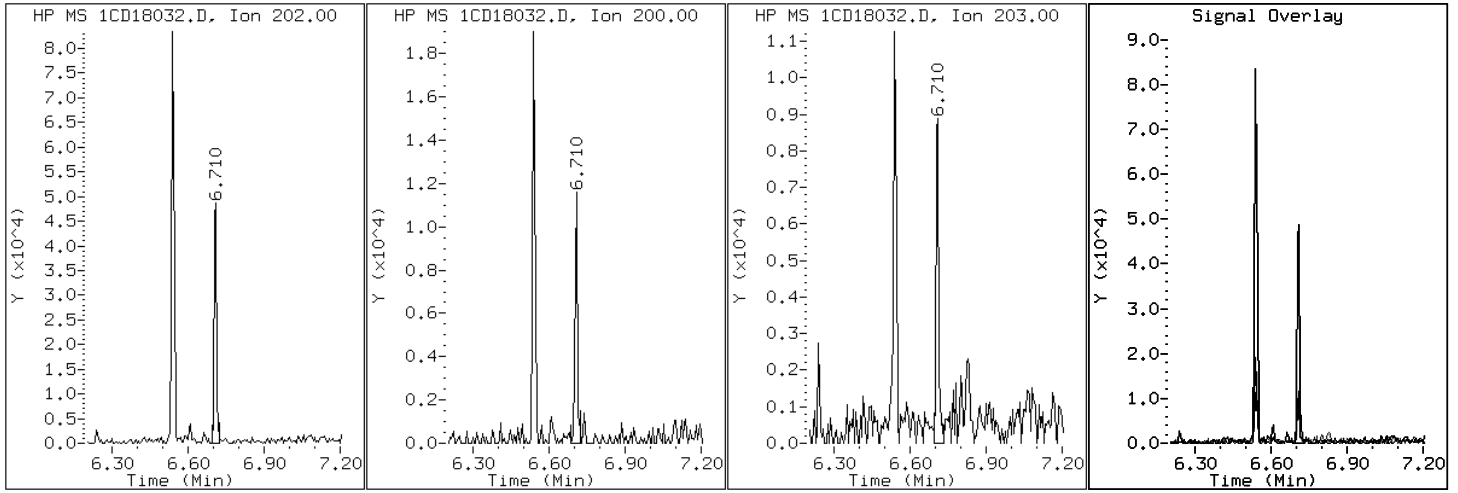
Client ID: CV0675B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-31-a

Operator: SCC

16 Pyrene

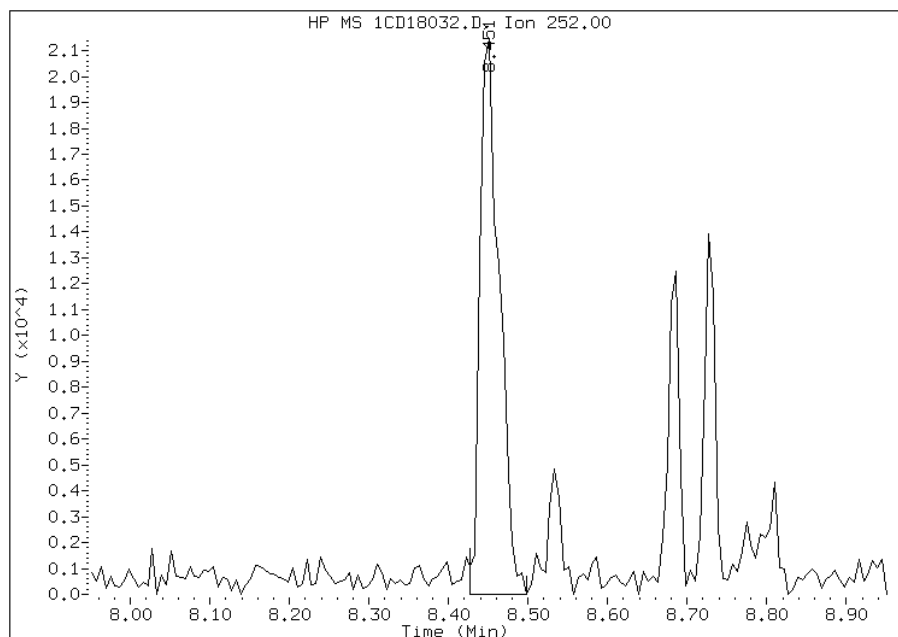


# Manual Integration Report

Data File: 1CD18032.D  
Inj. Date and Time: 18-APR-2013 20:52  
Instrument ID: BSMC5973.i  
Client ID: CV0675B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

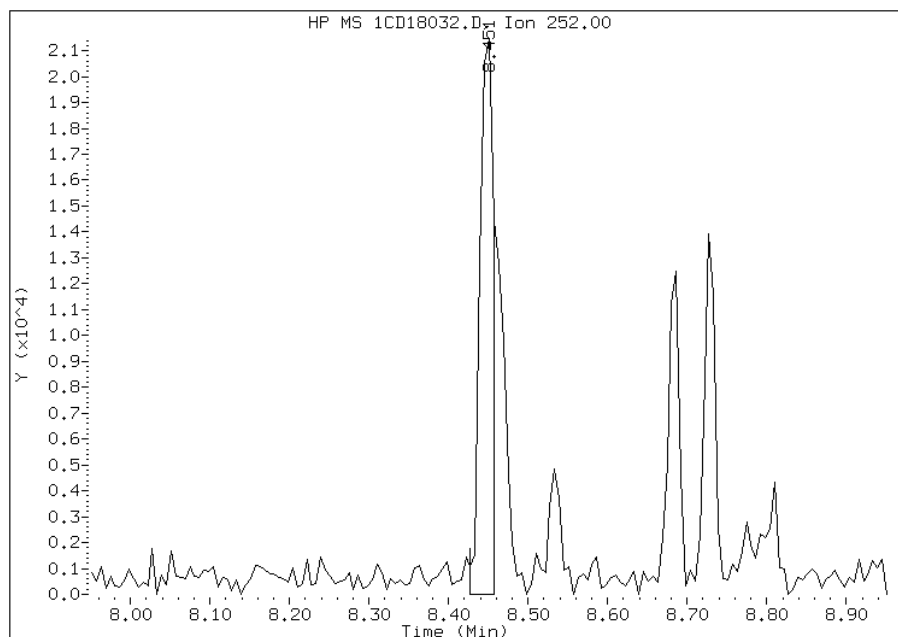
## Processing Integration Results

RT: 8.45  
Response: 36262  
Amount: 4  
Conc: 417



## Manual Integration Results

RT: 8.45  
Response: 25396  
Amount: 3  
Conc: 292



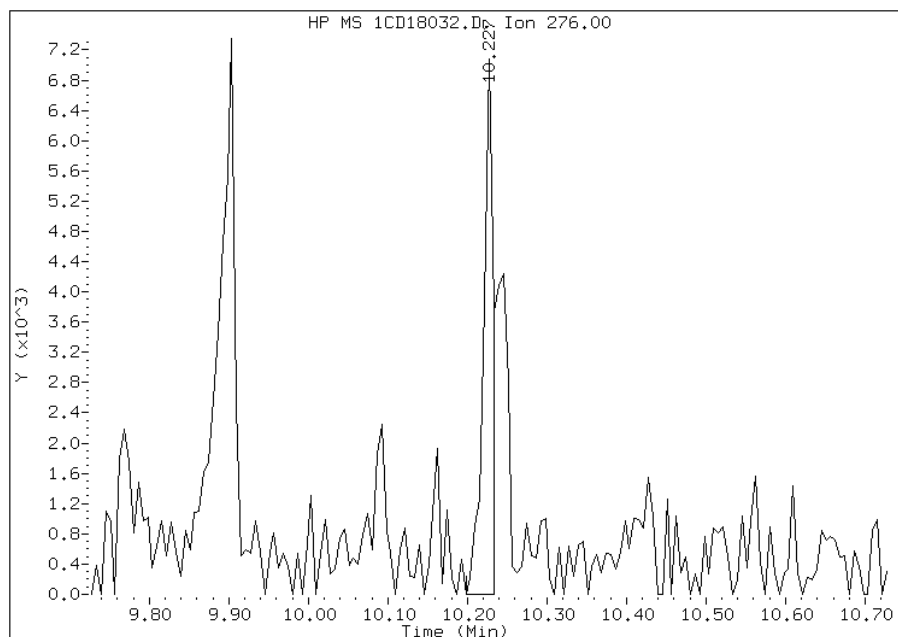
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:38  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18032.D  
Inj. Date and Time: 18-APR-2013 20:52  
Instrument ID: BSMC5973.i  
Client ID: CV0675B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/19/2013

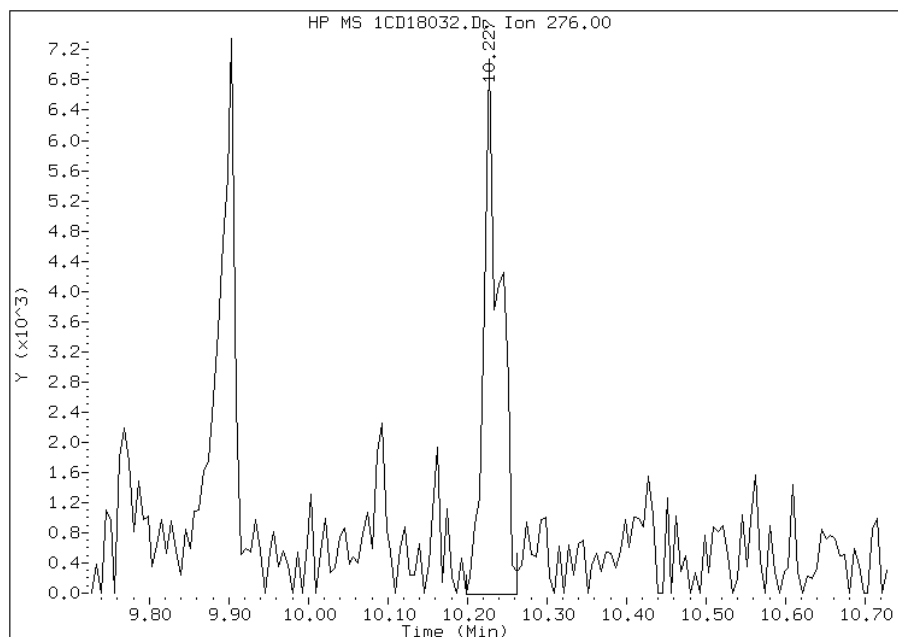
## Processing Integration Results

RT: 10.23  
Response: 6025  
Amount: 1  
Conc: 72



## Manual Integration Results

RT: 10.23  
Response: 10263  
Amount: 1  
Conc: 122



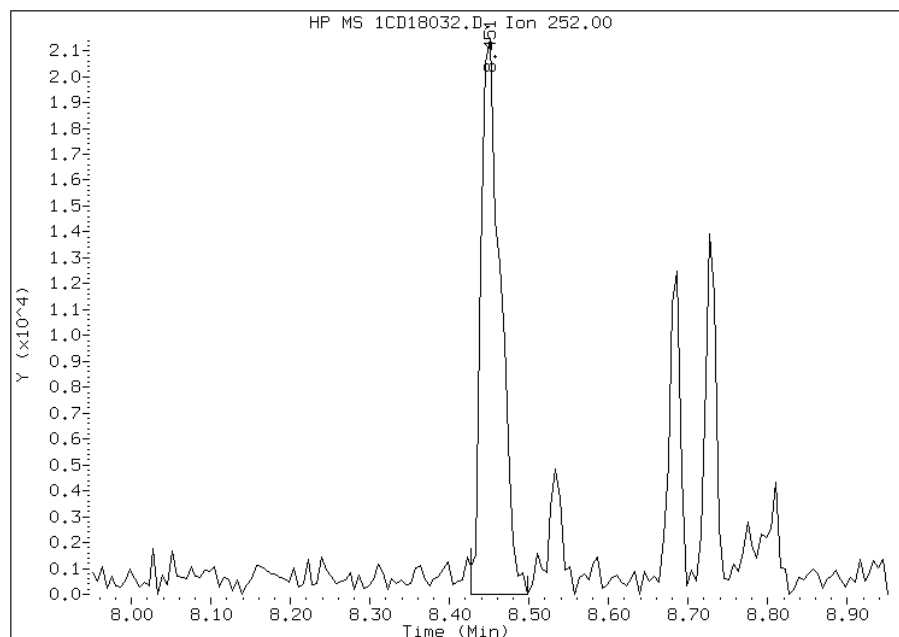
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:39  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18032.D  
Inj. Date and Time: 18-APR-2013 20:52  
Instrument ID: BSMC5973.i  
Client ID: CV0675B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

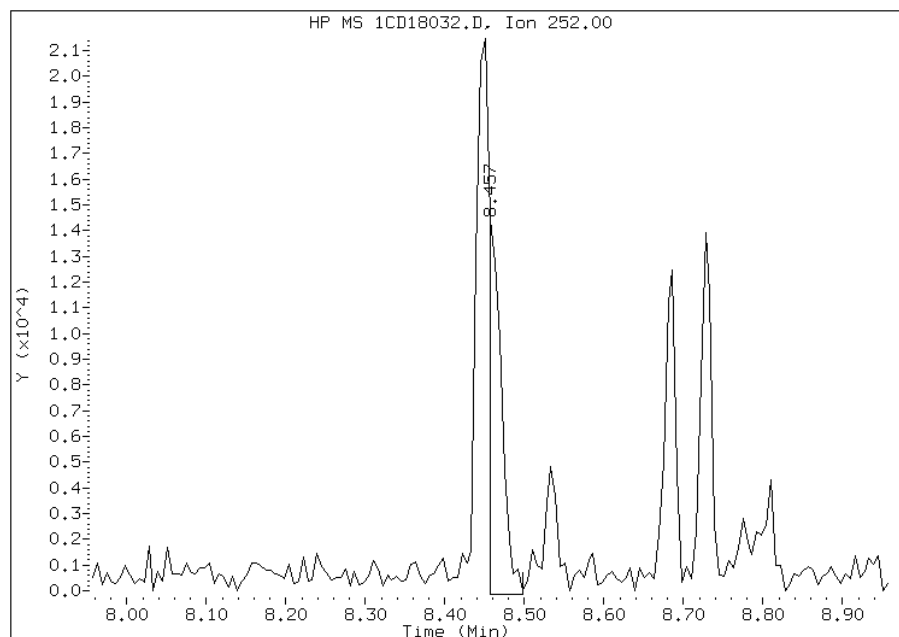
## Processing Integration Results

RT: 8.45  
Response: 36262  
Amount: 4  
Conc: 369



## Manual Integration Results

RT: 8.46  
Response: 16347  
Amount: 2  
Conc: 166



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:38  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV0928A-CS-SP Lab Sample ID: 680-89220-32  
 Matrix: Solid Lab File ID: 1CD18033.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 13:15  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.14(g) Date Analyzed: 04/18/2013 21:10  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 36.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	34	J	62	7.8
120-12-7	Anthracene	20		13	6.5
56-55-3	Benzo[a]anthracene	110		12	6.1
50-32-8	Benzo[a]pyrene	86		16	8.1
205-99-2	Benzo[b]fluoranthene	180		19	9.5
191-24-2	Benzo[g,h,i]perylene	73		31	6.9
207-08-9	Benzo[k]fluoranthene	23		12	5.6
218-01-9	Chrysene	86		14	7.0
53-70-3	Dibenz(a,h)anthracene	31	U	31	6.4
206-44-0	Fluoranthene	100		31	6.2
86-73-7	Fluorene	31	U	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	150		31	11
90-12-0	1-Methylnaphthalene	34	J	62	6.9
91-57-6	2-Methylnaphthalene	67		62	11
91-20-3	Naphthalene	28	J	62	6.9
85-01-8	Phenanthrene	68		12	6.1
129-00-0	Pyrene	120		31	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18033.D  
 Lab Smp Id: 680-89220-A-32-A Client Smp ID: CV0928A-CS-SP  
 Inj Date : 18-APR-2013 21:10  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-32-a  
 Misc Info : 680-89220-A-32-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 33  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	36.463	% 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	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	3.663	3.663	(1.000)	260817	40.0000	
* 6 Acenaphthene-d10	164	4.751	4.745	(1.000)	182219	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	323787	40.0000	
\$ 14 o-Terphenyl	230	5.945	5.945	(1.044)	40050	8.15919	848.1914
* 18 Chrysene-d12	240	7.627	7.627	(1.000)	342503	40.0000	
* 23 Perylene-d12	264	8.786	8.780	(1.000)	323335	40.0000	
2 Naphthalene	128	3.675	3.674	(1.003)	1869	0.26510	27.5580(Q)
3 2-Methylnaphthalene	142	4.098	4.098	(1.119)	1735	0.64068	66.6015
4 1-Methylnaphthalene	142	4.163	4.163	(1.136)	1453	0.32264	33.5402
5 Acenaphthylene	152	4.663	4.663	(0.981)	2556	0.33103	34.4125
11 Phenanthrene	178	5.710	5.704	(1.003)	6190	0.65830	68.4338
12 Anthracene	178	5.739	5.739	(1.008)	1811	0.19266	20.0282
13 Carbazole	167	5.851	5.851	(1.028)	1623	0.18539	19.2721
15 Fluoranthene	202	6.539	6.539	(1.149)	10332	0.98365	102.2557



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.710	6.704	(0.880)	11611	1.19162	123.8755
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	9848	1.01680	105.7014
19 Chrysene	228	7.645	7.645	(1.002)	7911	0.82568	85.8338
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.961)	13980	1.71185	177.9555(M)
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.965)	2011	0.21762	22.6225(QMH)
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	6975	0.82625	85.8935
24 Indeno(1,2,3-cd)pyrene	276	9.904	9.898	(1.127)	6584	1.42446	148.0806
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.164)	5587	0.70610	73.4030

QC Flag Legend

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

Data File: 1CD18033.D

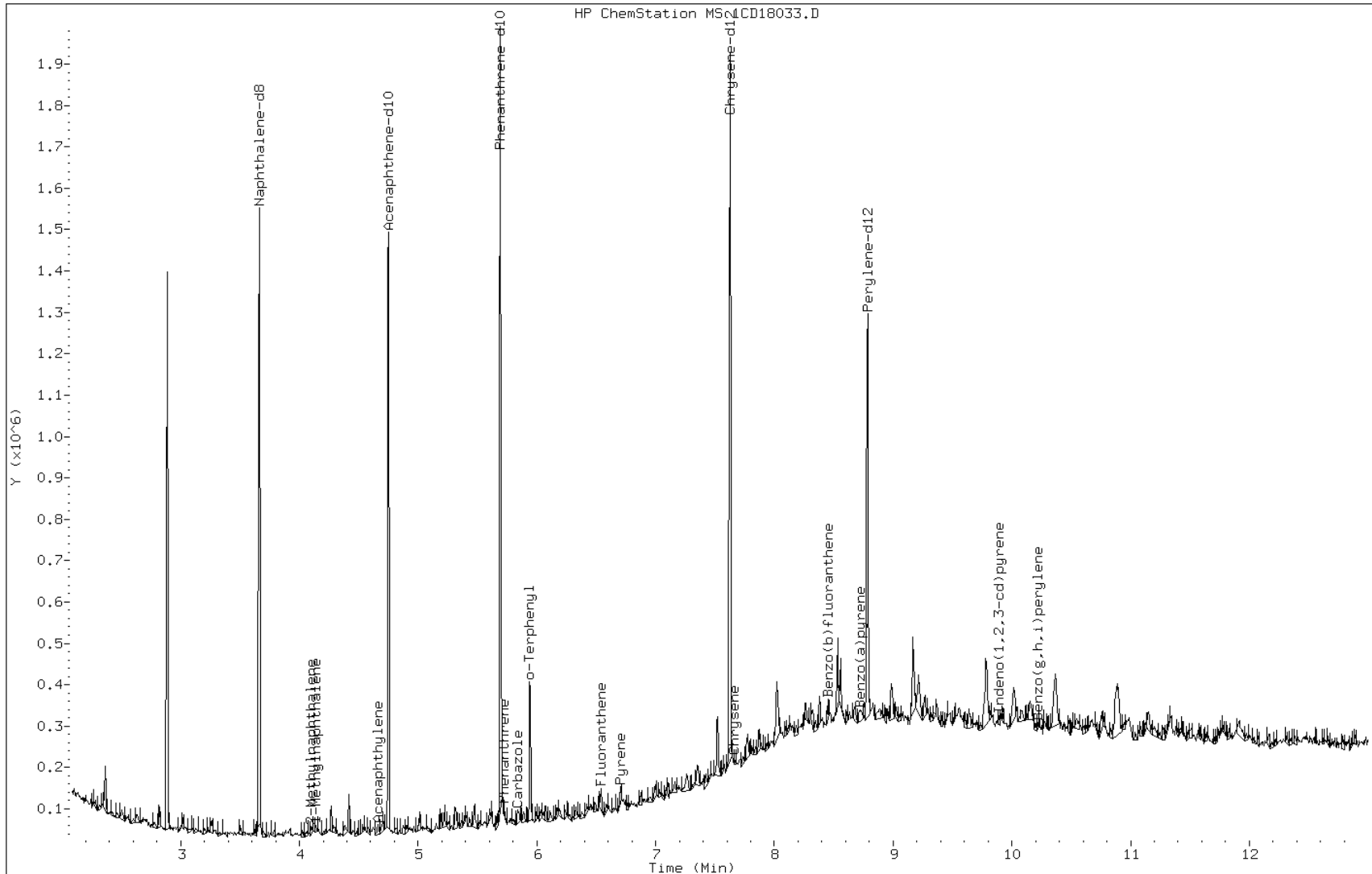
Date: 18-APR-2013 21:10

Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

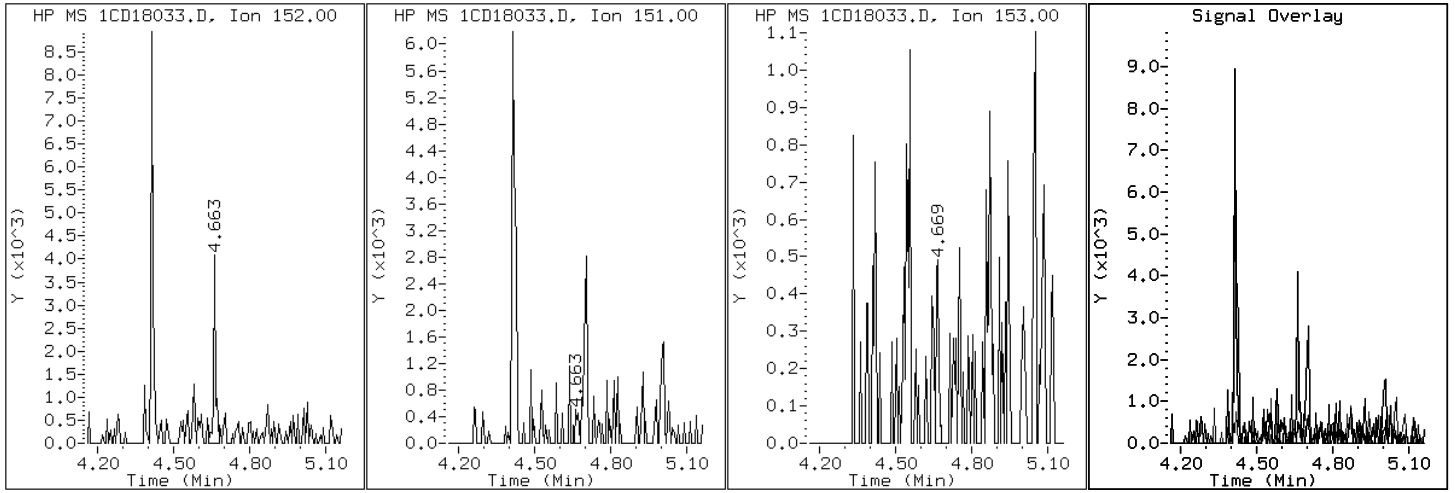
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

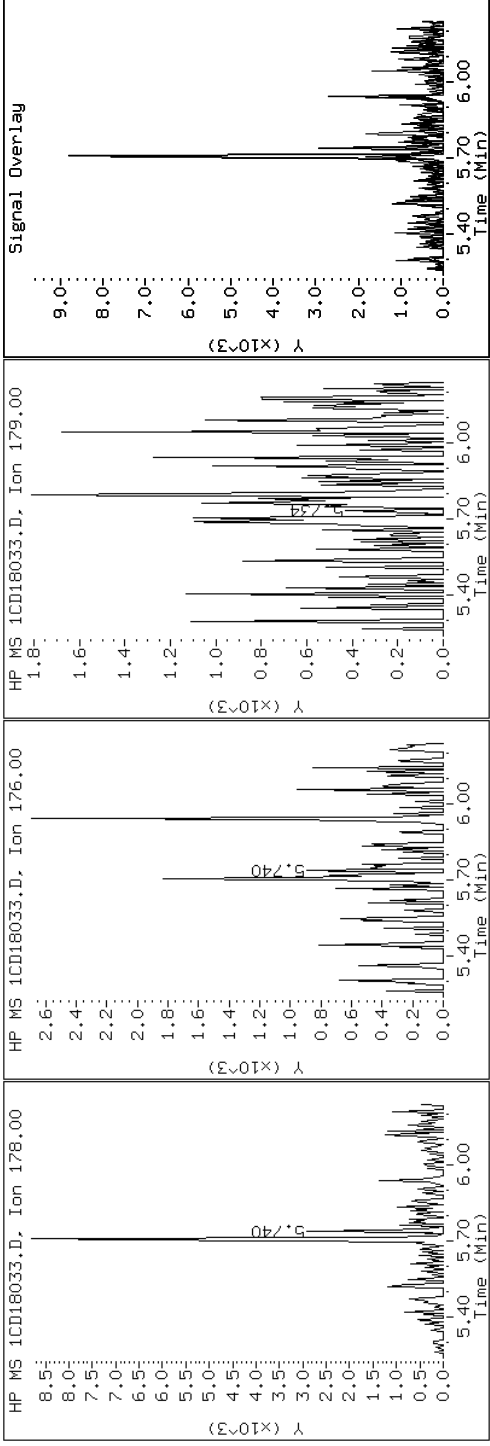
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

12 Anthracene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

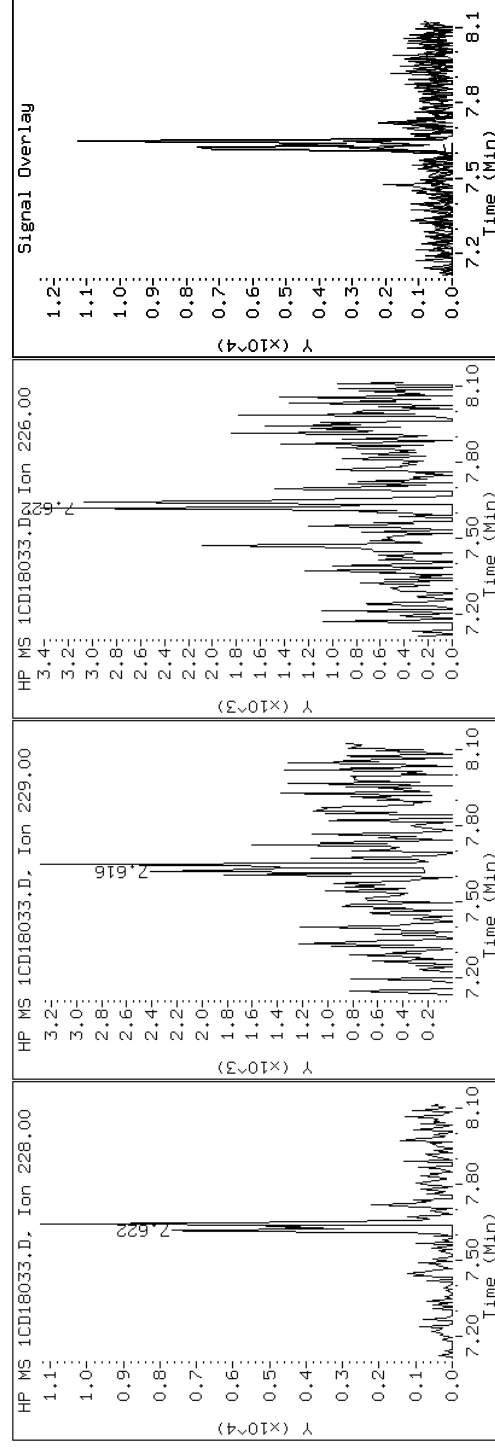
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

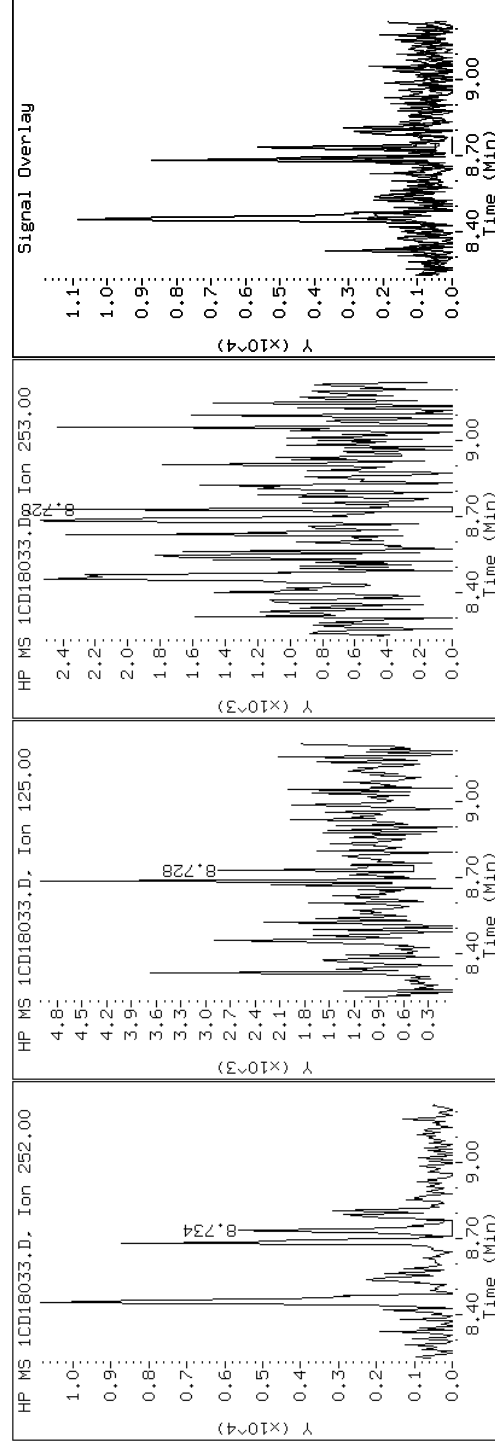
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

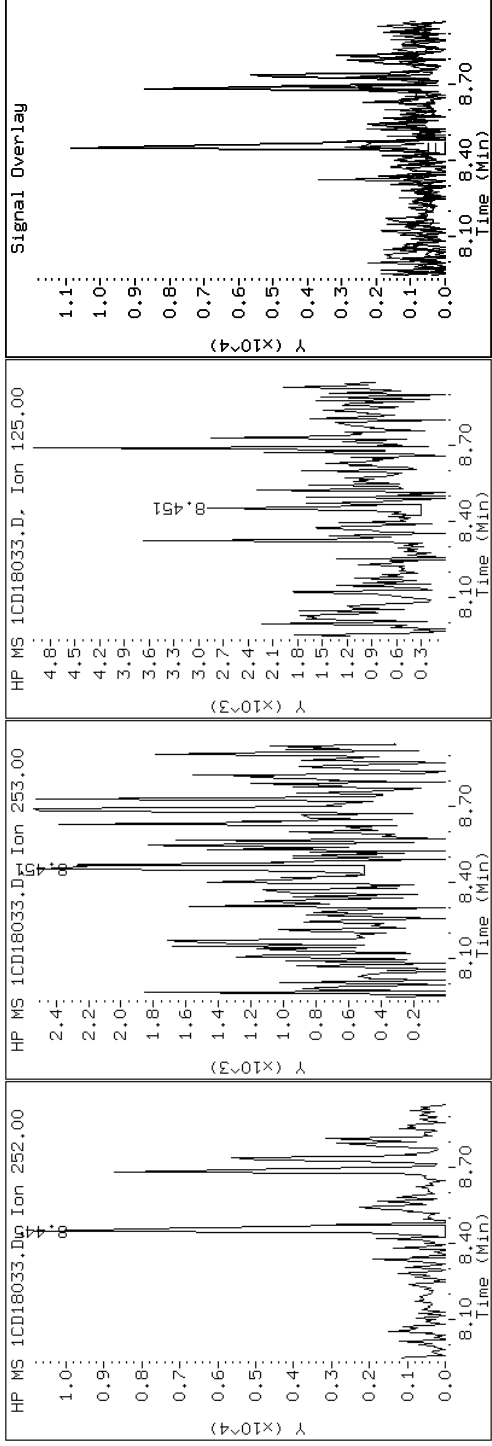
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

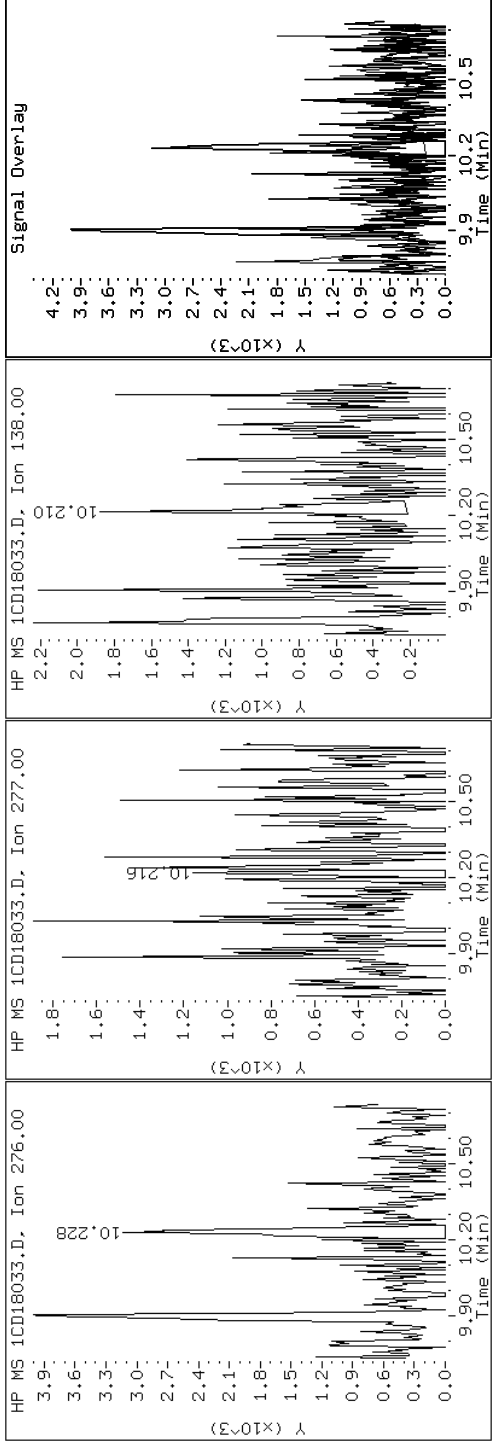
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1CD18033.D

Date: 18-APR-2013 21:10

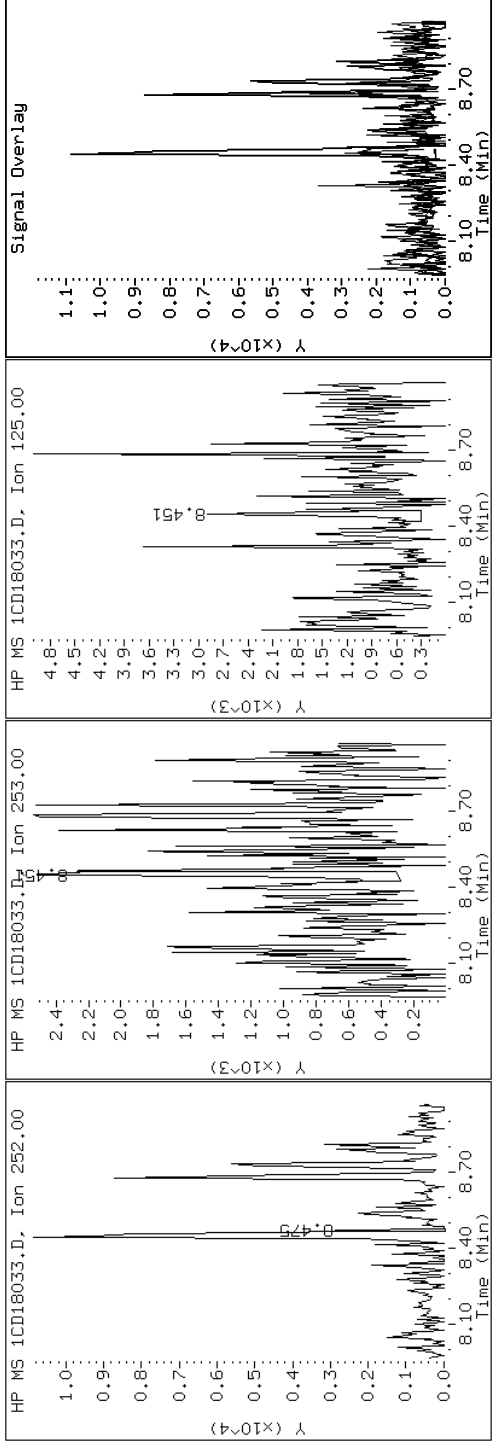
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

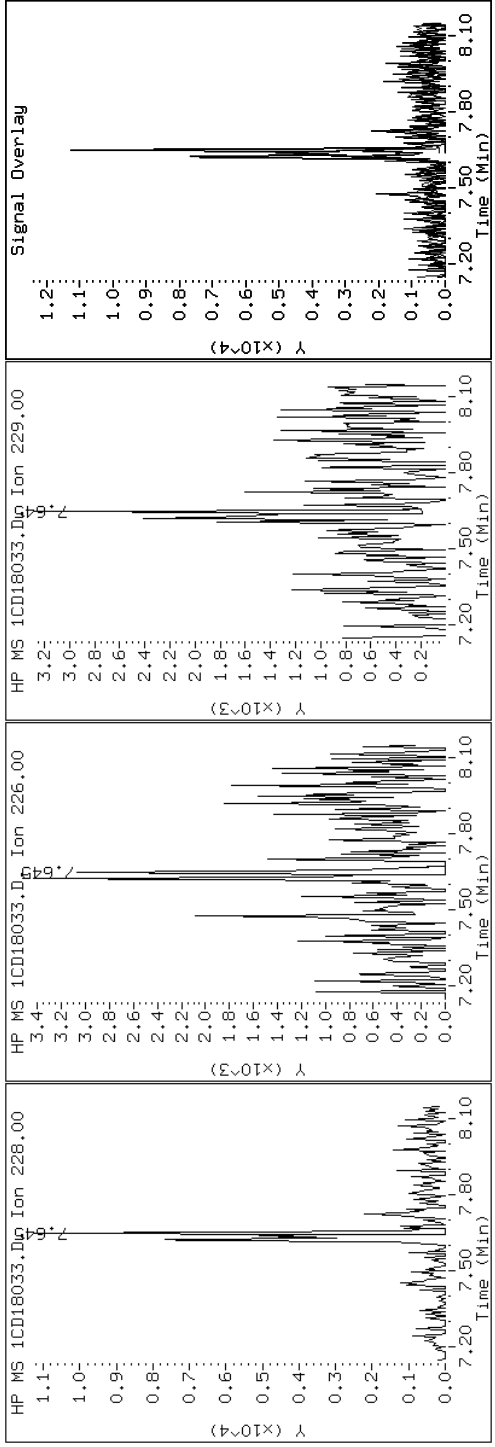
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

19 Chrysene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

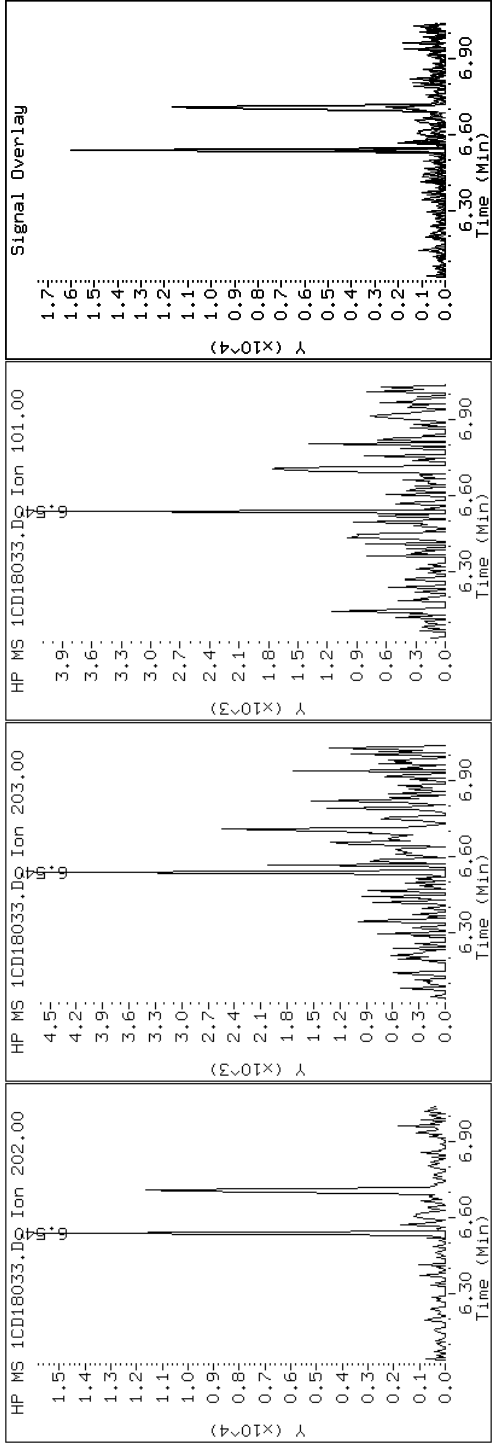
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

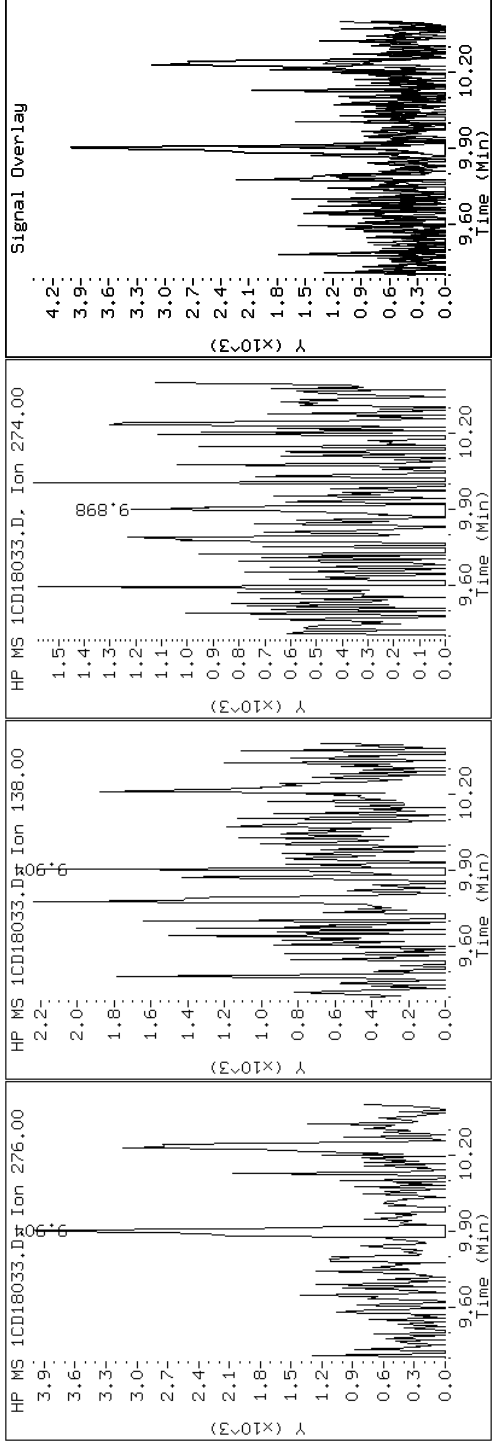
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

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



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

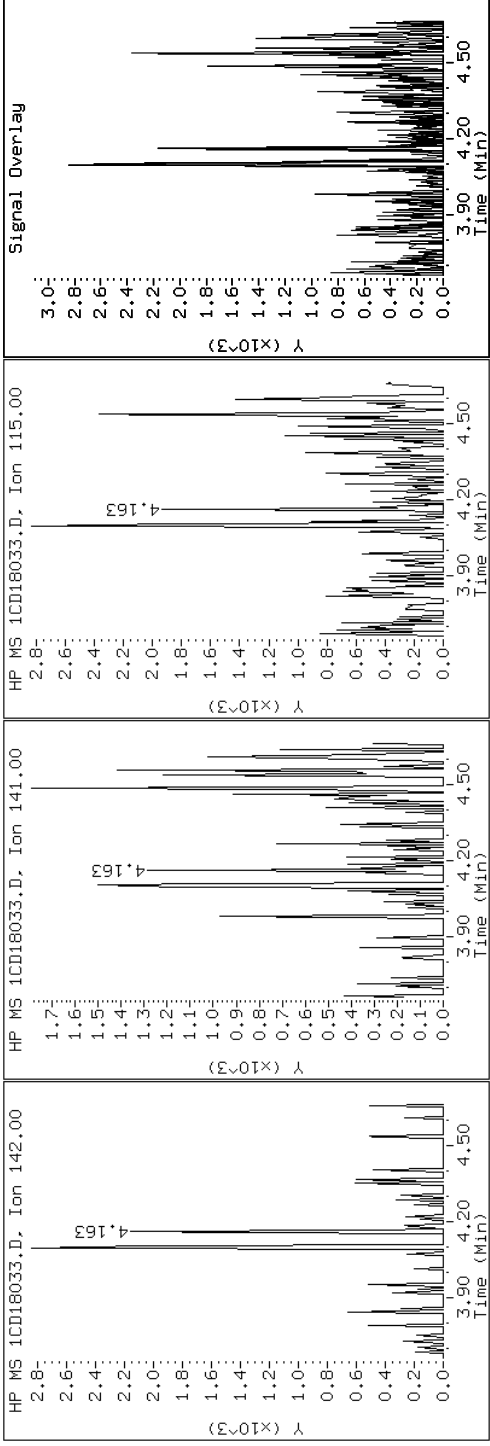
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

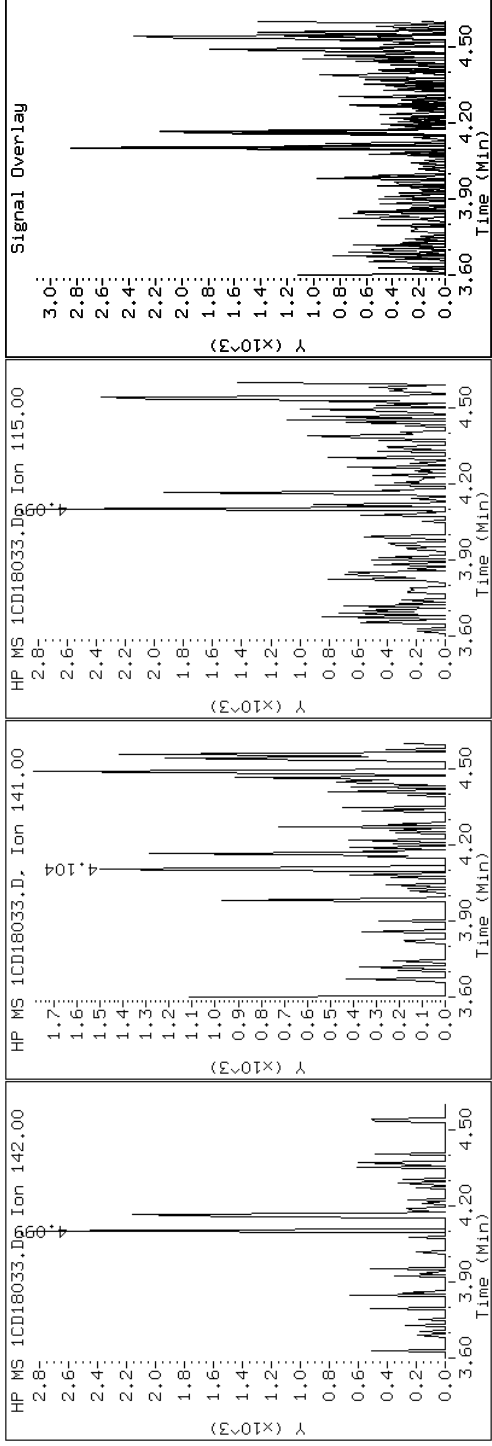
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

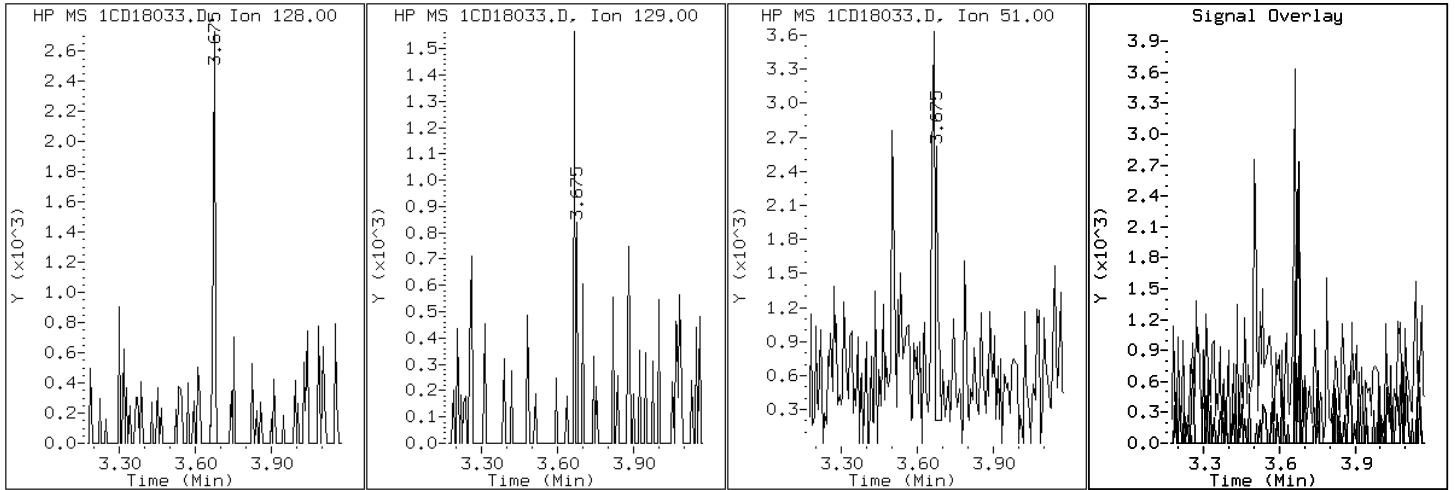
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

2 Naphthalene



Data File: 1CD18033.D

Date: 18-APR-2013 21:10

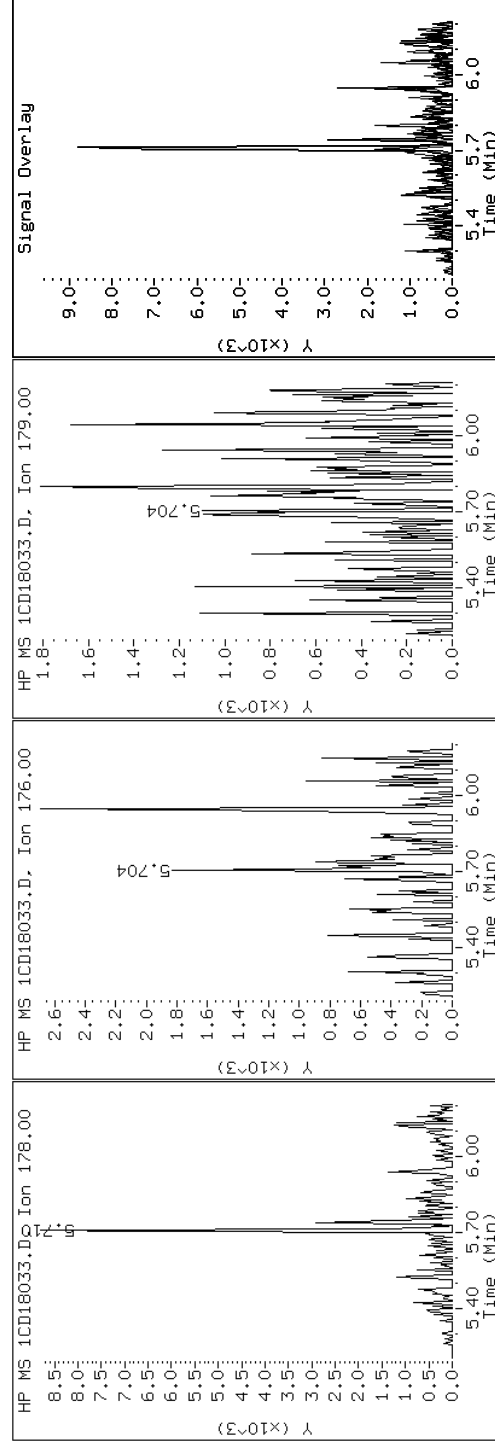
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

### 11 Phenanthrene





Data File: 1CD18033.D

Date: 18-APR-2013 21:10

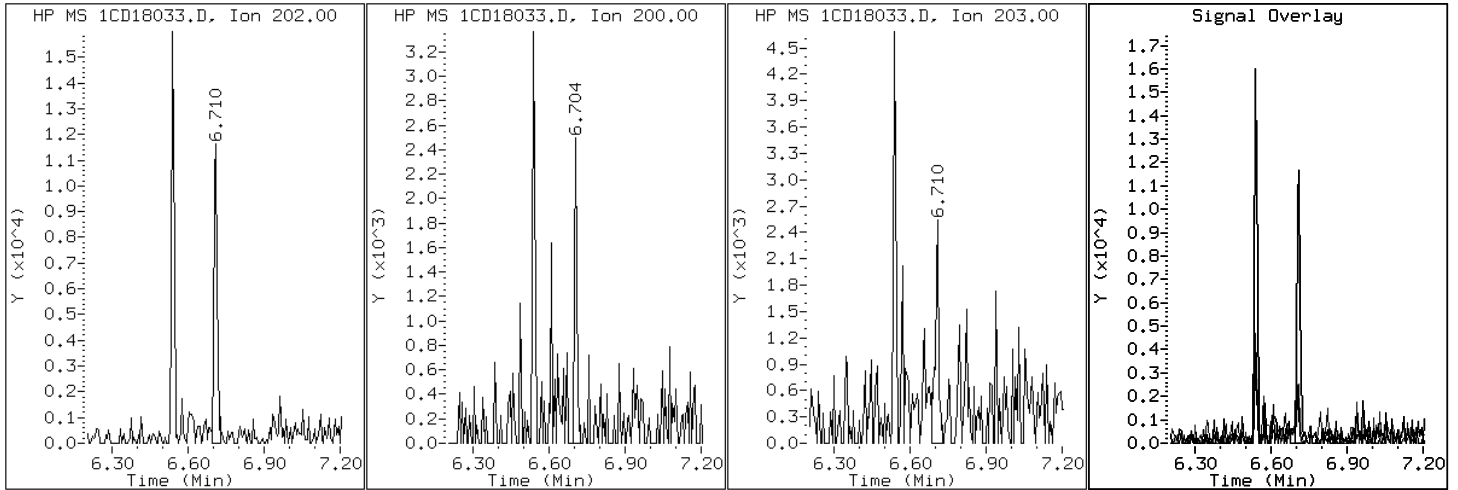
Client ID: CV0928A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-32-a

Operator: SCC

16 Pyrene

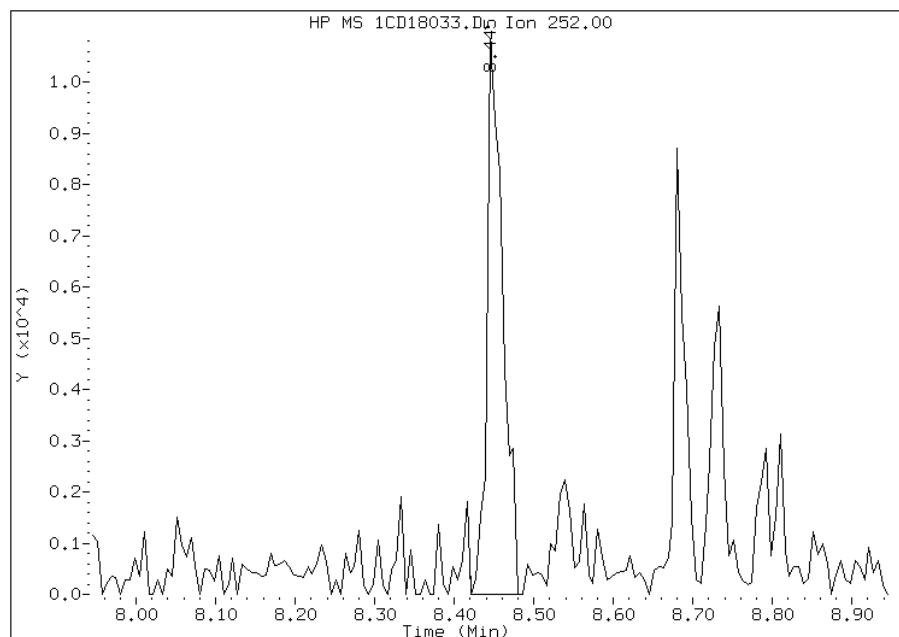


# Manual Integration Report

Data File: 1CD18033.D  
Inj. Date and Time: 18-APR-2013 21:10  
Instrument ID: BSMC5973.i  
Client ID: CV0928A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

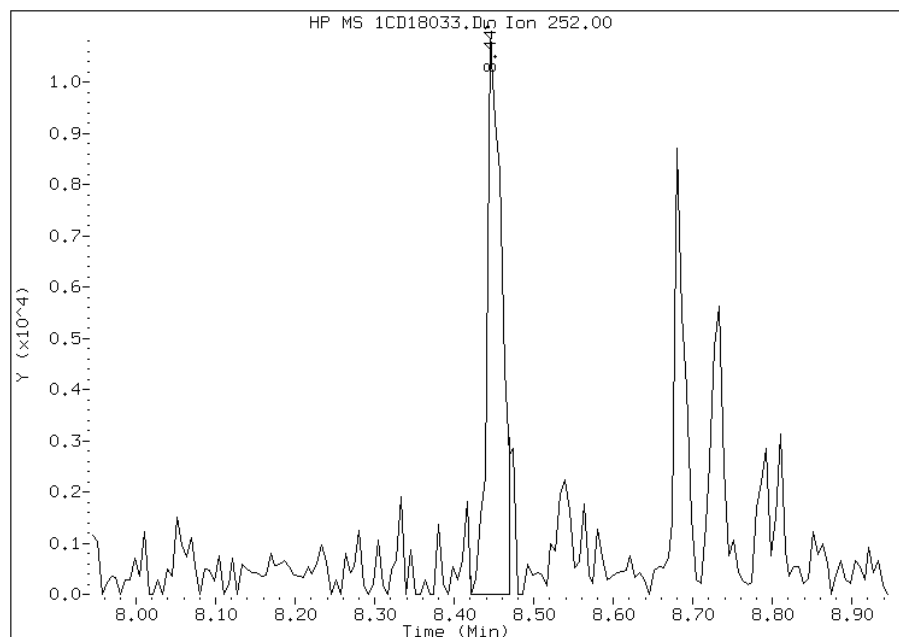
## Processing Integration Results

RT: 8.45  
Response: 14988  
Amount: 2  
Conc: 191



## Manual Integration Results

RT: 8.45  
Response: 13980  
Amount: 2  
Conc: 178



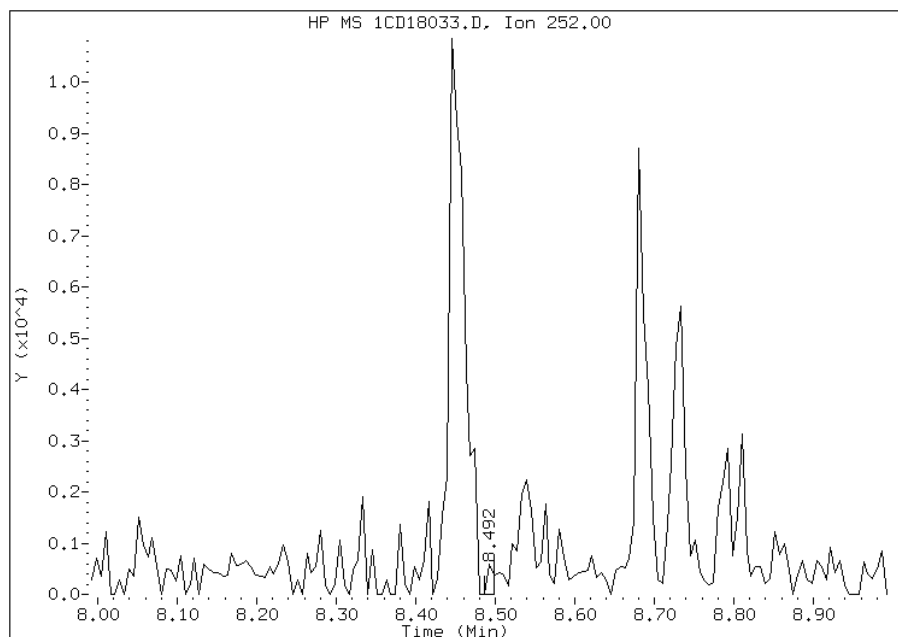
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:40  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18033.D  
Inj. Date and Time: 18-APR-2013 21:10  
Instrument ID: BSMC5973.i  
Client ID: CV0928A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

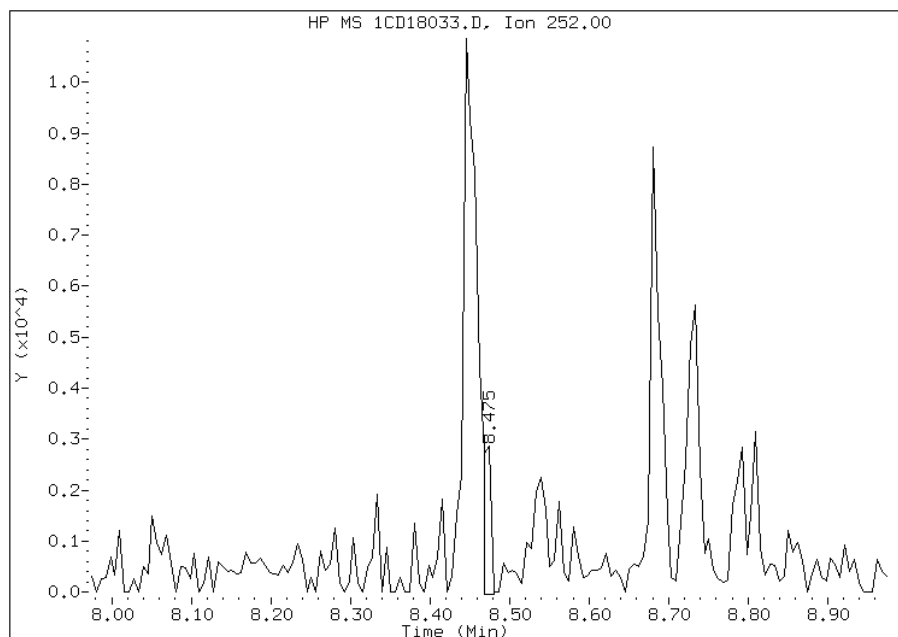
## Processing Integration Results

RT: 8.49  
Response: 339  
Amount: 0  
Conc: 4



## Manual Integration Results

RT: 8.47  
Response: 2011  
Amount: 0  
Conc: 23



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:41  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV0928B-CS-SP Lab Sample ID: 680-89220-33  
 Matrix: Solid Lab File ID: 1CD18034.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 13:25  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.39(g) Date Analyzed: 04/18/2013 21:29  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 41.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	33
208-96-8	Acenaphthylene	32	J	67	8.3
120-12-7	Anthracene	42		14	7.0
56-55-3	Benzo[a]anthracene	89		13	6.5
50-32-8	Benzo[a]pyrene	130		17	8.7
205-99-2	Benzo[b]fluoranthene	220		20	10
191-24-2	Benzo[g,h,i]perylene	100		33	7.3
207-08-9	Benzo[k]fluoranthene	97		13	6.0
218-01-9	Chrysene	180		15	7.5
53-70-3	Dibenz(a,h)anthracene	100		33	6.8
206-44-0	Fluoranthene	170		33	6.7
86-73-7	Fluorene	11	J	33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	160		33	12
90-12-0	1-Methylnaphthalene	41	J	67	7.3
91-57-6	2-Methylnaphthalene	110		67	12
91-20-3	Naphthalene	55	J	67	7.3
85-01-8	Phenanthrene	110		13	6.5
129-00-0	Pyrene	190		33	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18034.D  
 Lab Smp Id: 680-89220-A-33-A Client Smp ID: CV0928B-CS-SP  
 Inj Date : 18-APR-2013 21:29  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-33-a  
 Misc Info : 680-89220-A-33-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	41.416	% 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		3.663	3.663	(1.000)	263899	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	184303	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	342878	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	41443	7.98864	886.0482	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	348268	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	336321	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	3556	0.49849	55.2888(Q)	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	3453	0.99648	110.5227(Q)	
4 1-Methylnaphthalene	142		4.162	4.163	(1.136)	1688	0.37045	41.0874	
5 Acenaphthylene	152		4.662	4.663	(0.981)	2281	0.29208	32.3952	
9 Fluorene	166		5.086	5.086	(1.071)	574	0.09584	10.6298(Q)	
11 Phenanthrene	178		5.709	5.704	(1.003)	9476	0.94810	105.1571	
12 Anthracene	178		5.739	5.739	(1.008)	3769	0.37864	41.9959	
13 Carbazole	167		5.851	5.851	(1.028)	1793	0.19340	21.4510(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.539	6.539	(1.149)	16801	1.51047	167.5314
16 Pyrene	202	6.703	6.704	(0.879)	17369	1.75305	194.4373
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	7920	0.80420	89.1963
19 Chrysene	228	7.645	7.645	(1.002)	15620	1.60329	177.8267
20 Benzo(b)fluoranthene	252	8.450	8.445	(0.962)	16604	1.95465	216.7973
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	8441	0.87816	97.4001
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	9971	1.13555	125.9481
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.898	(1.127)	6648	1.40149	155.4441(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.128)	4089	0.92182	102.2420
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.164)	7390	0.89791	99.5902

QC Flag Legend

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

Data File: 1CD18034.D

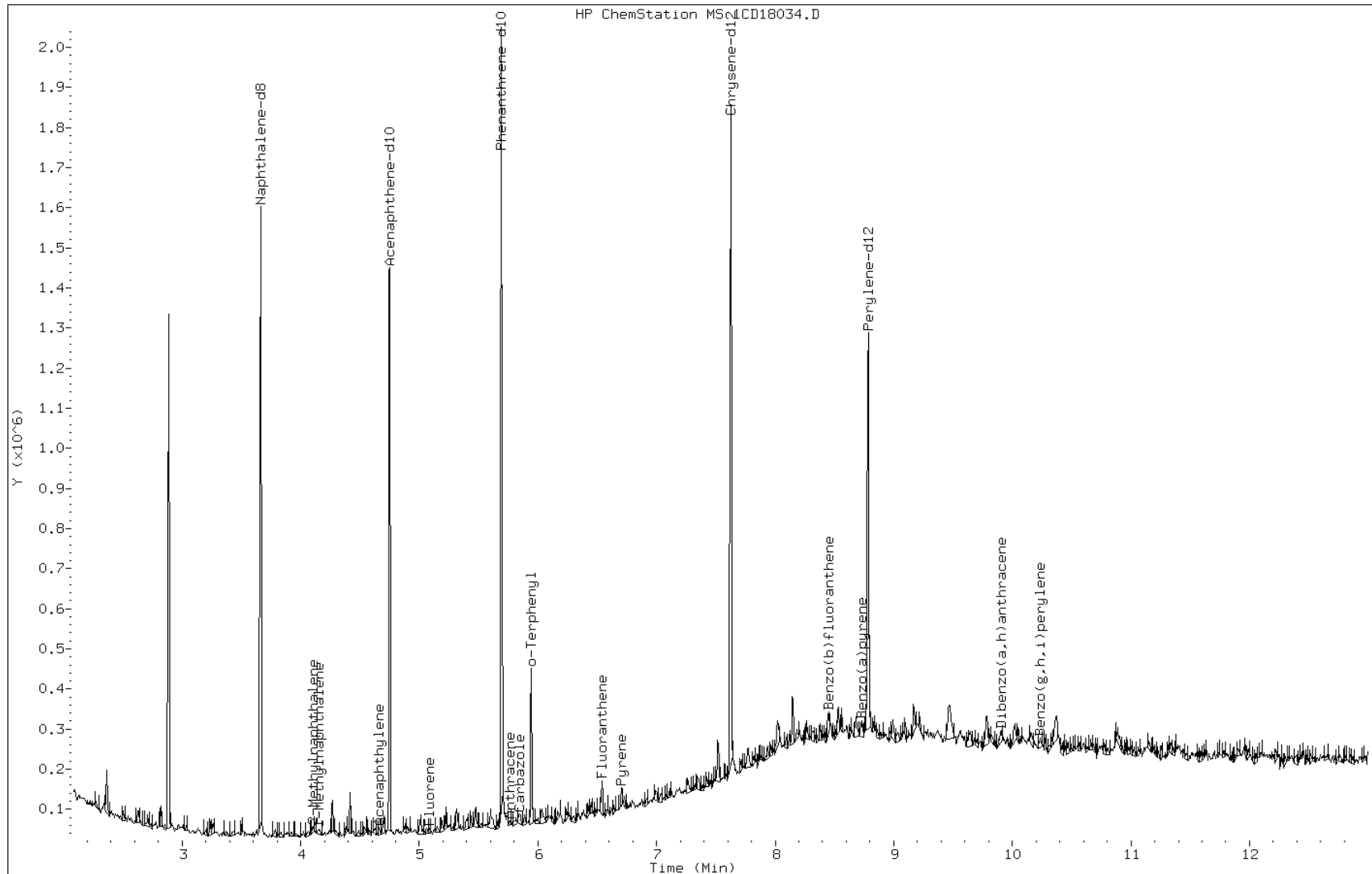
Date: 18-APR-2013 21:29

Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

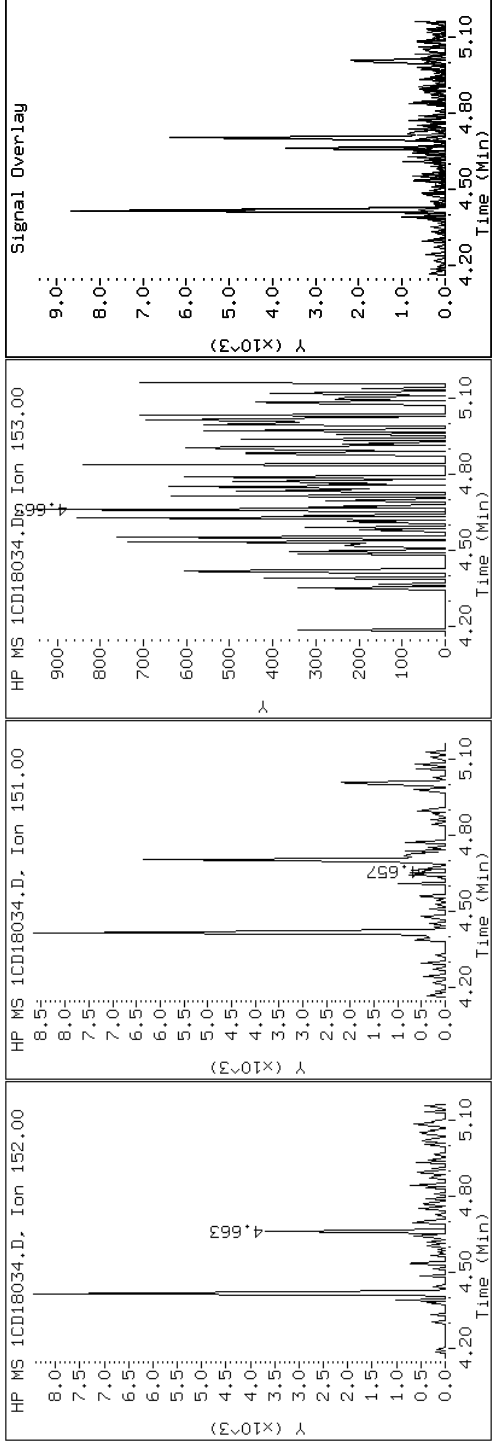
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

5 Acenaphthylene





Data File: 1CD18034.D

Date: 18-APR-2013 21:29

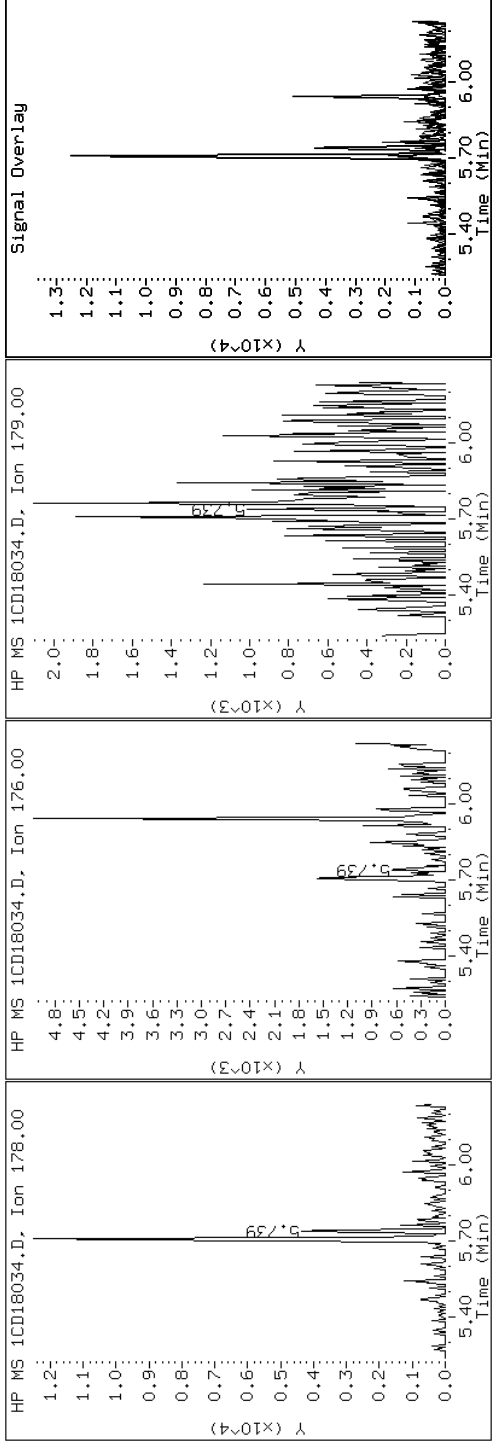
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

12 Anthracene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

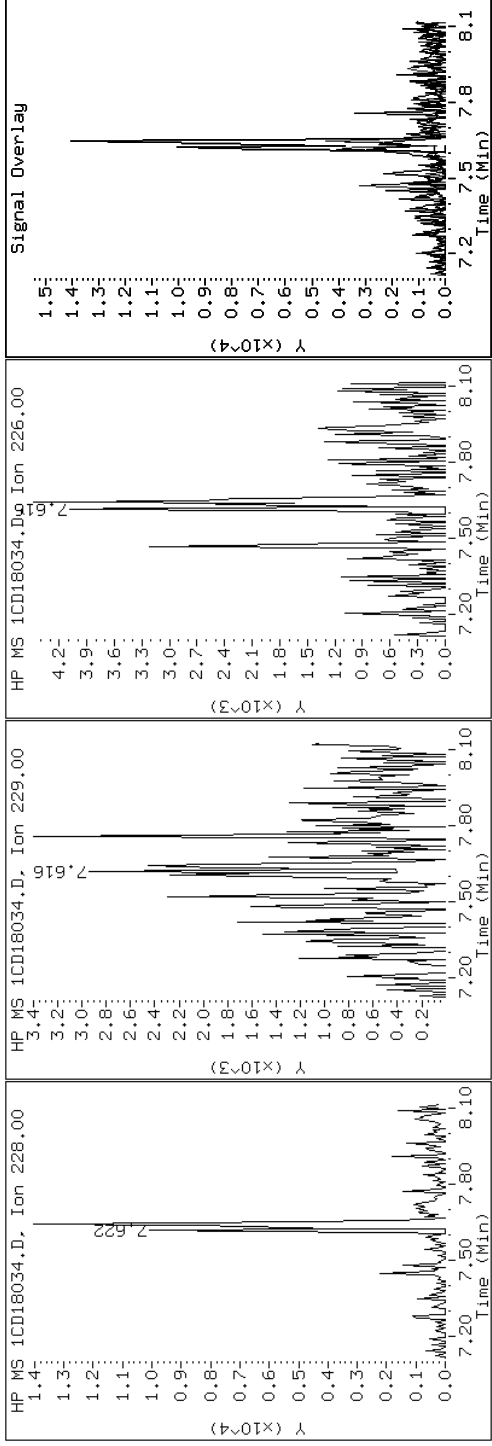
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

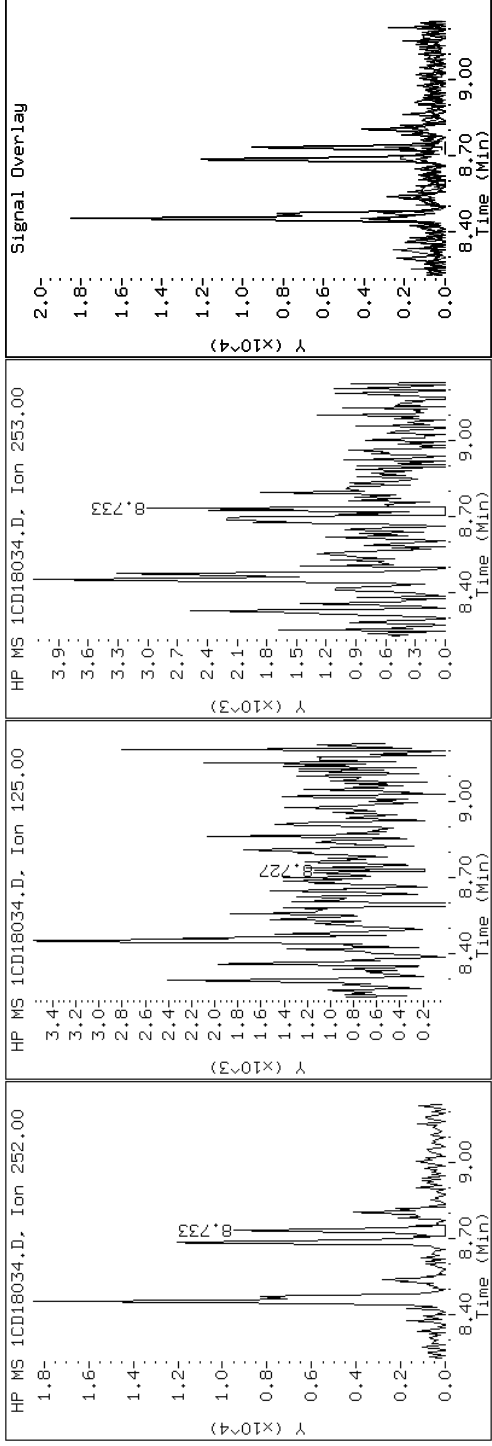
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

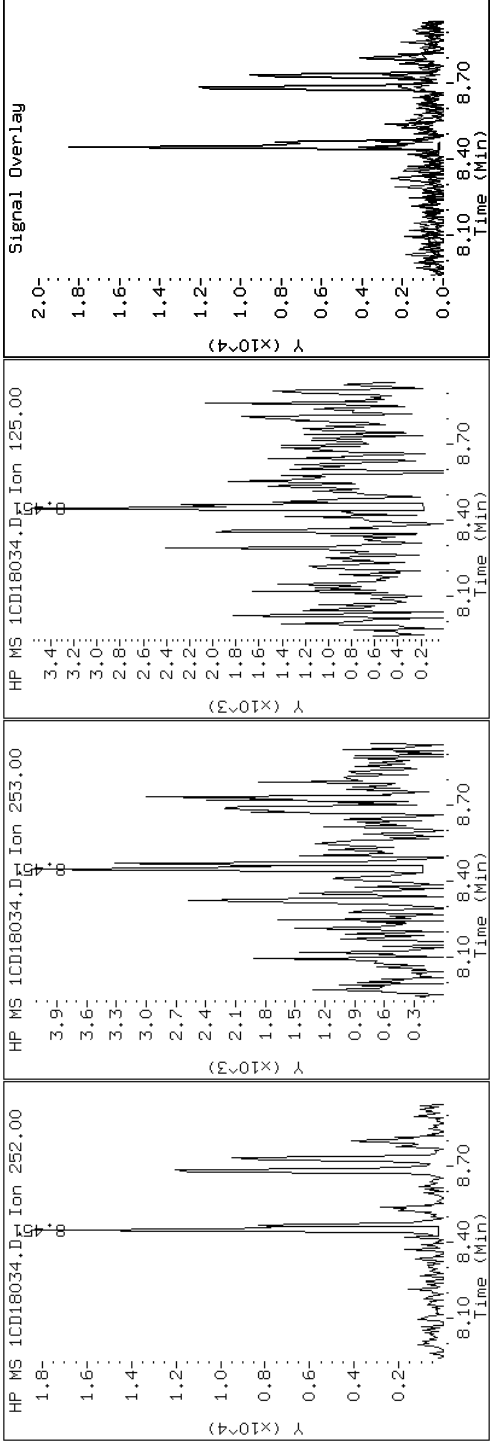
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

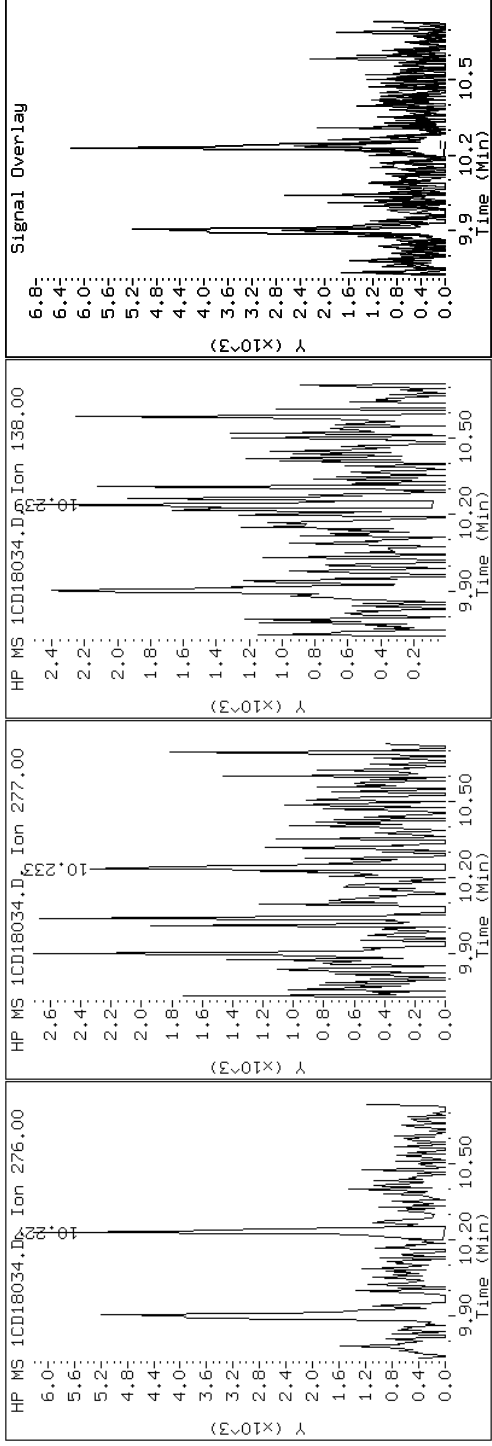
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

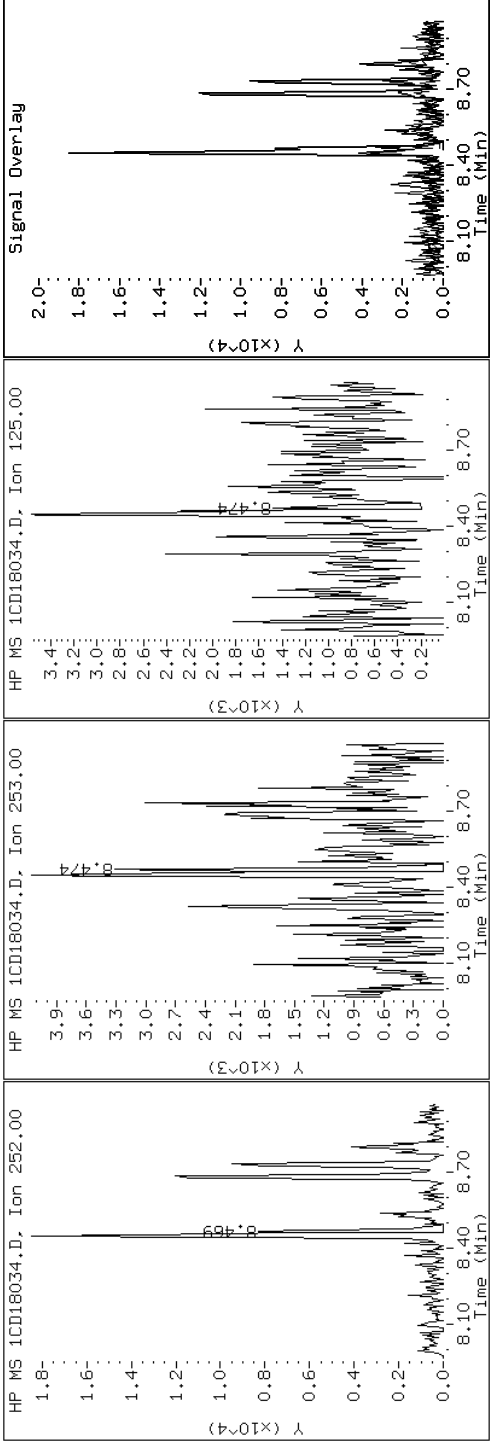
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

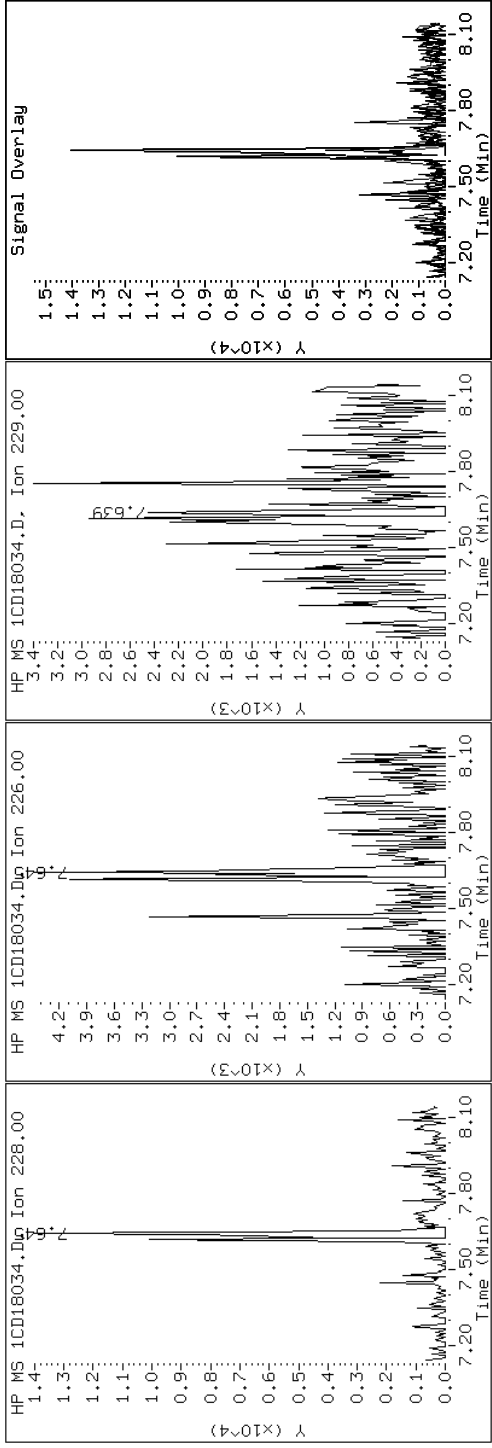
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

19 Chrysene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

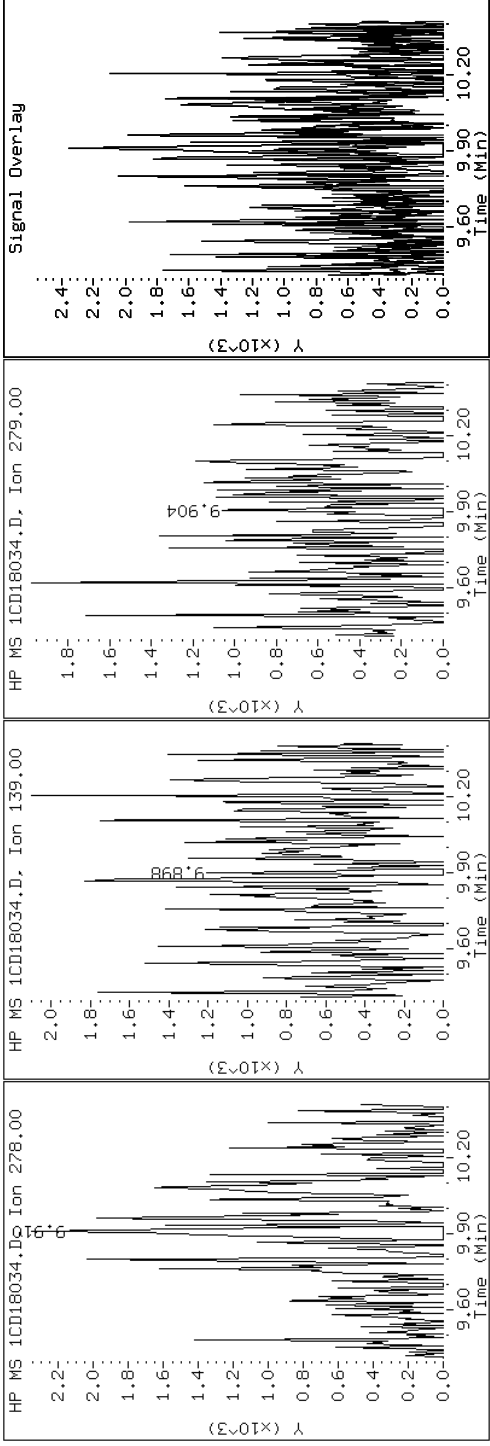
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

25 Dibenzo(a,h)anthracene





Data File: 1CD18034.D

Date: 18-APR-2013 21:29

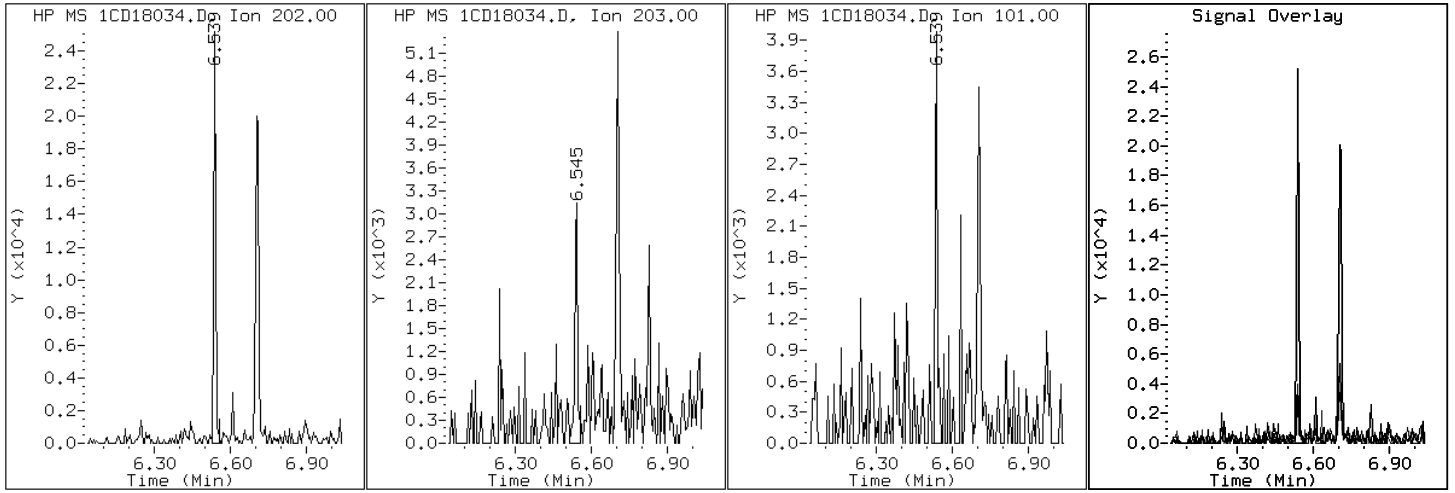
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

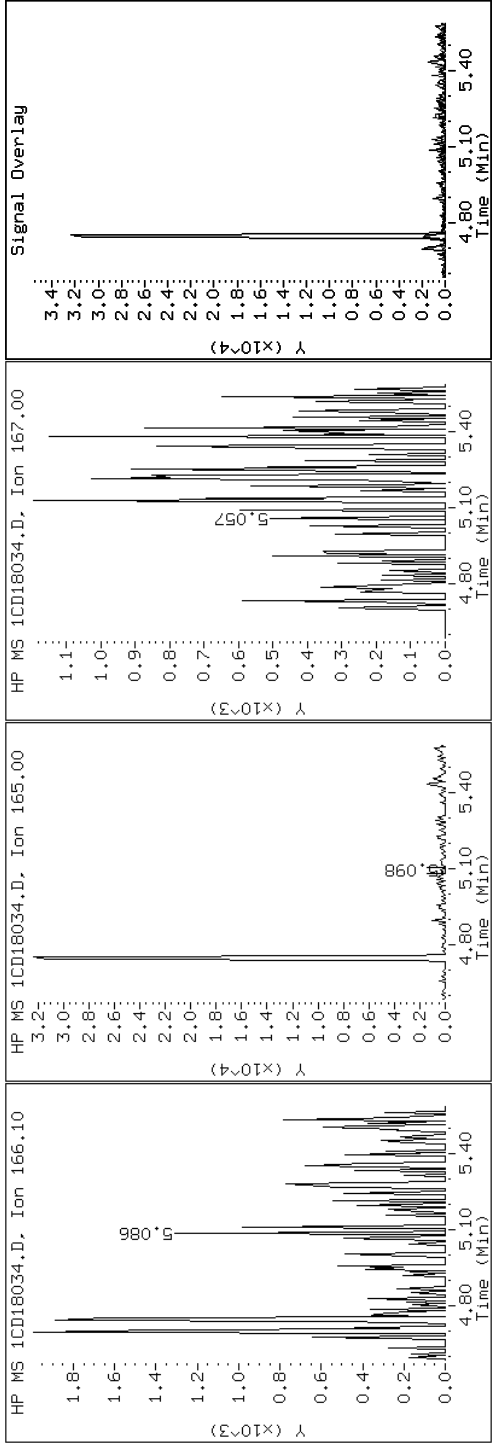
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

9 Fluorene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

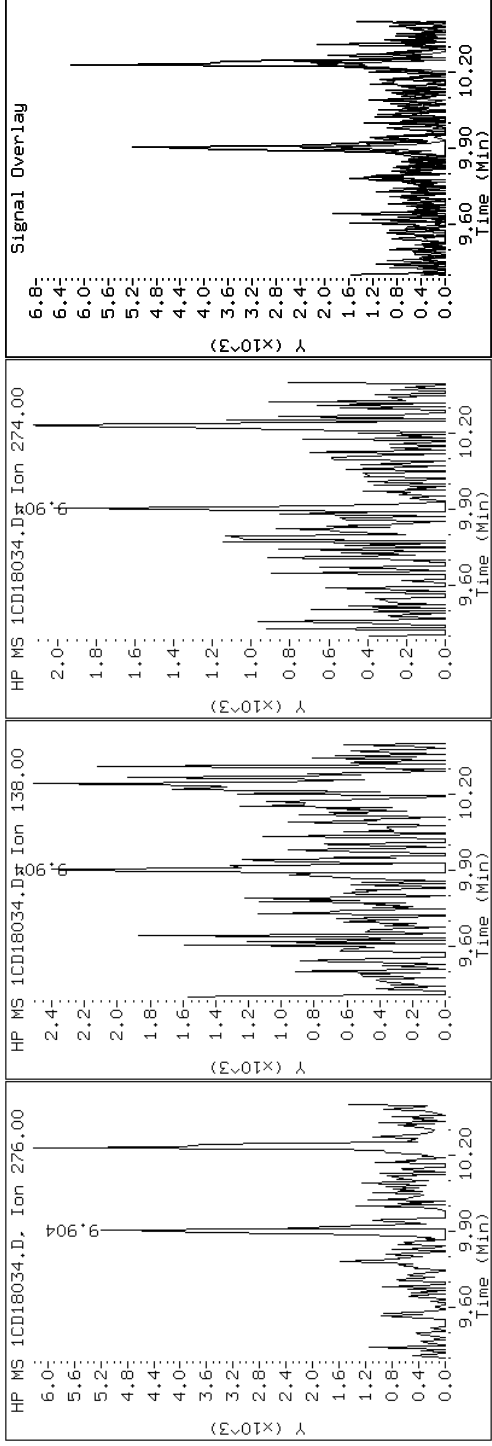
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

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



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

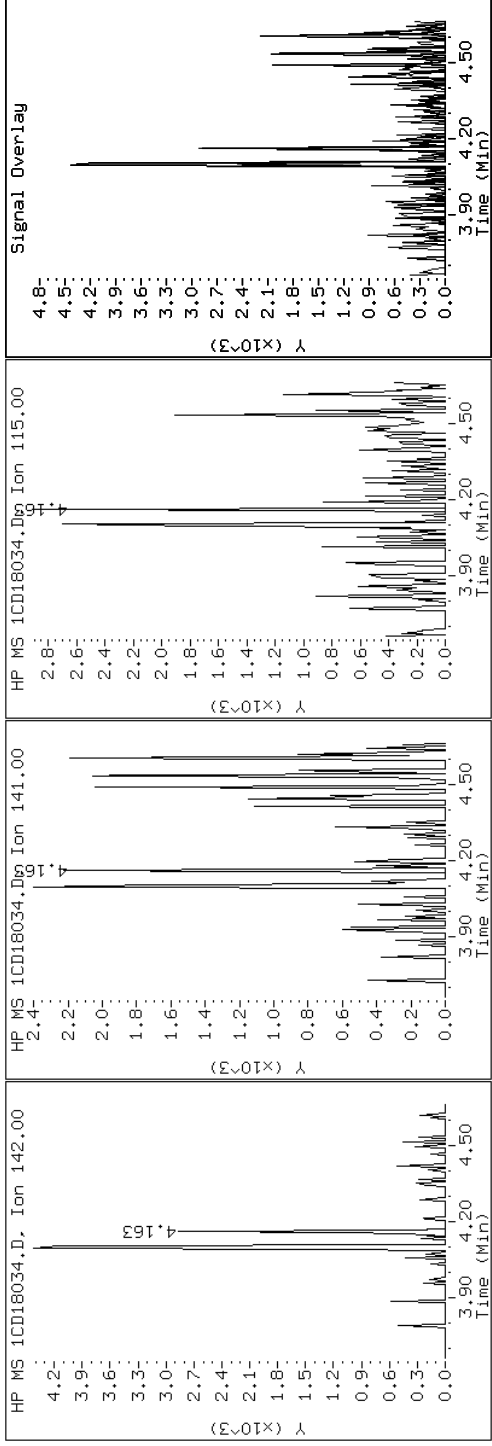
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

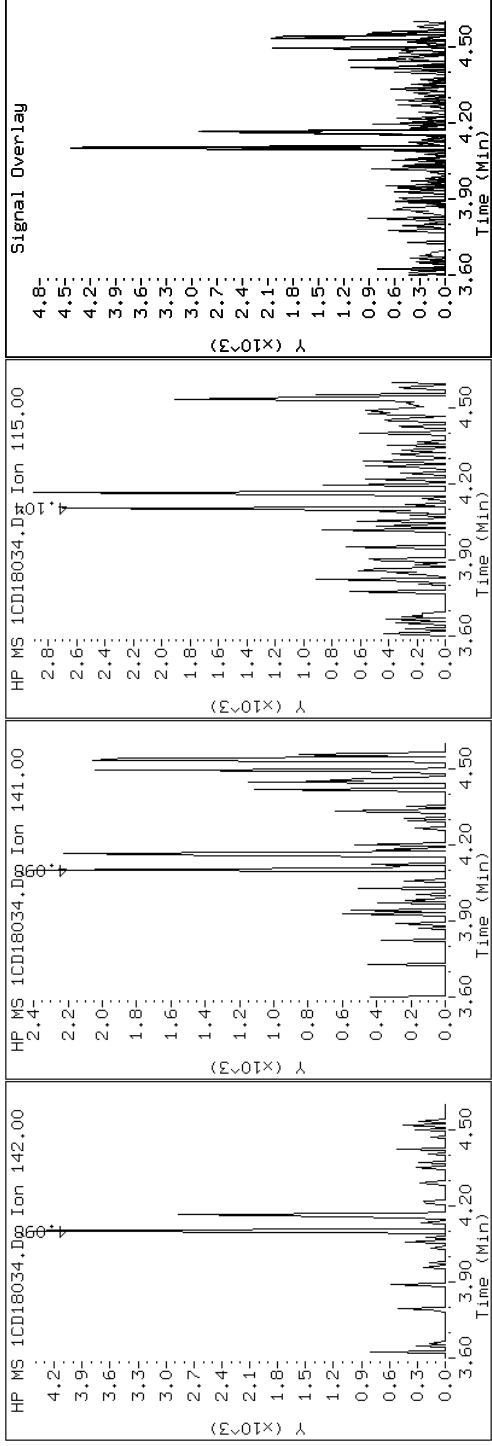
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

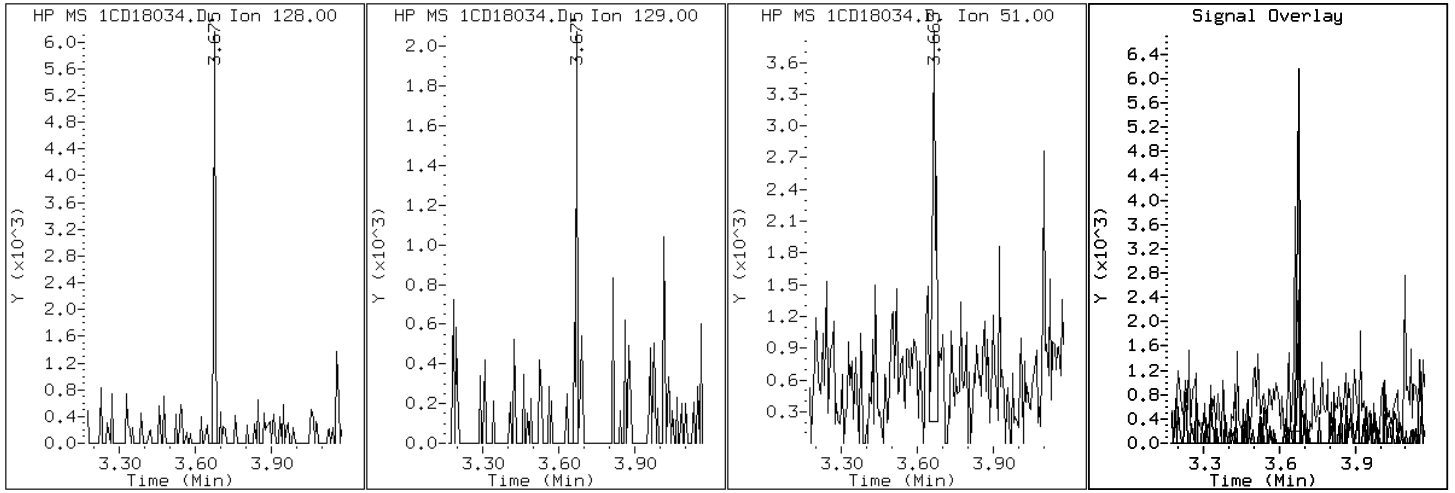
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

2 Naphthalene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

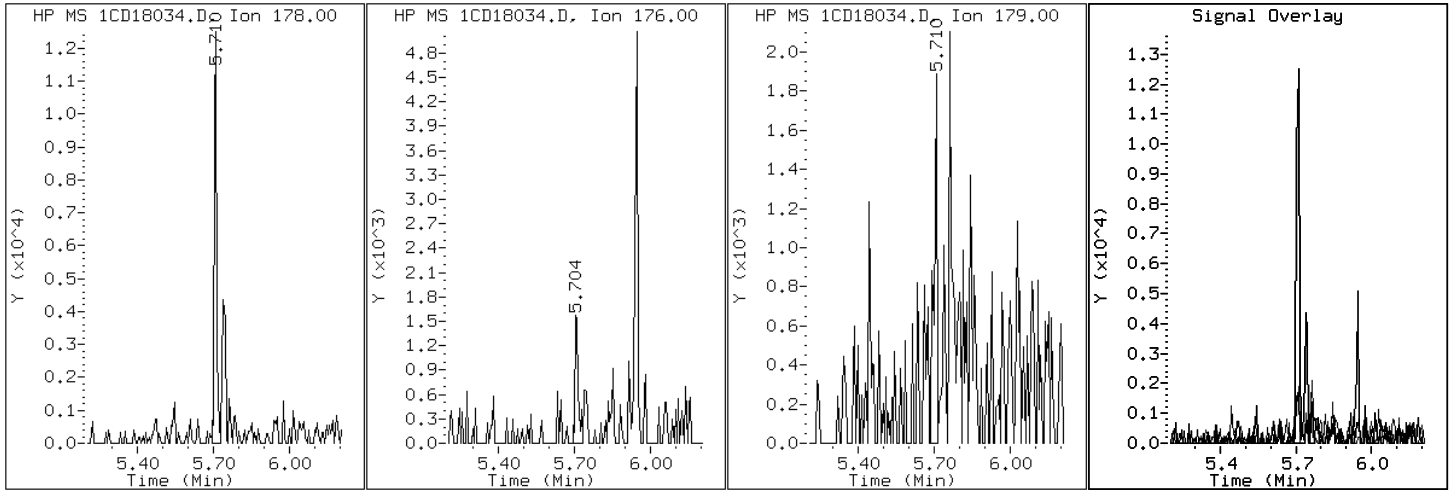
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18034.D

Date: 18-APR-2013 21:29

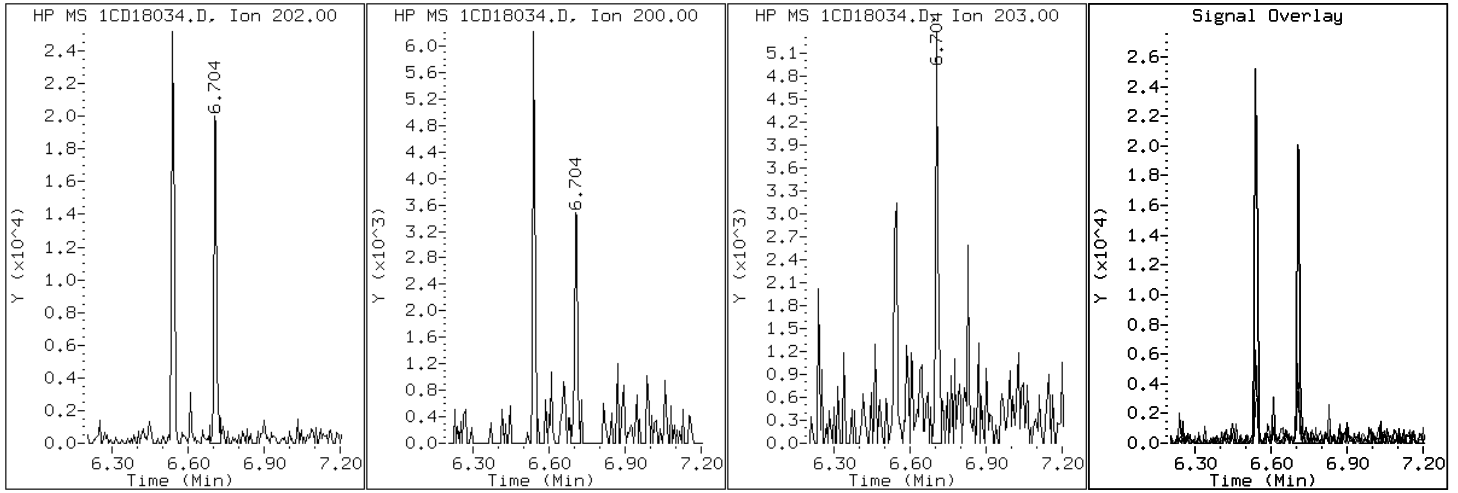
Client ID: CV0928B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-33-a

Operator: SCC

16 Pyrene



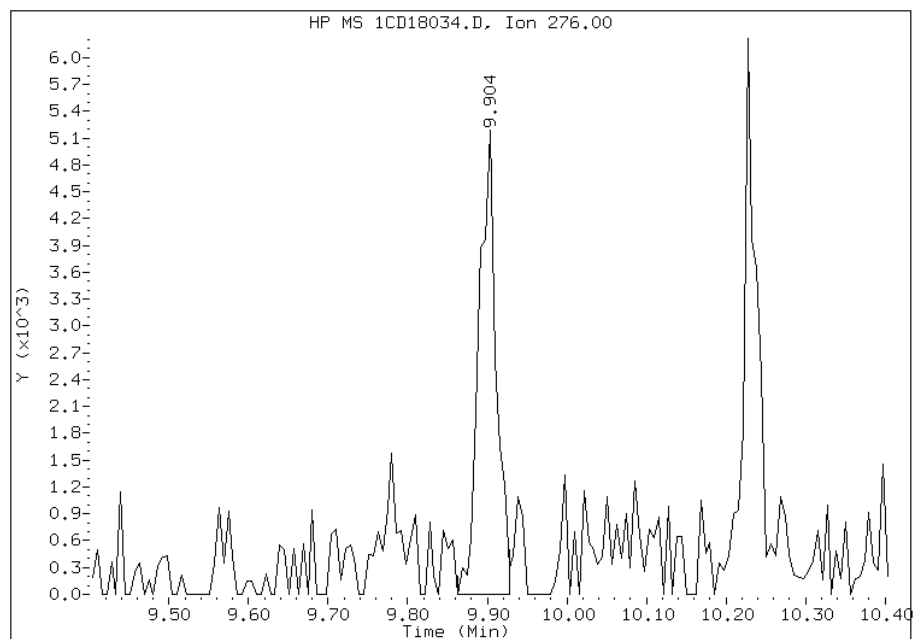


# Manual Integration Report

Data File: 1CD18034.D  
Inj. Date and Time: 18-APR-2013 21:29  
Instrument ID: BSMC5973.i  
Client ID: CV0928B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

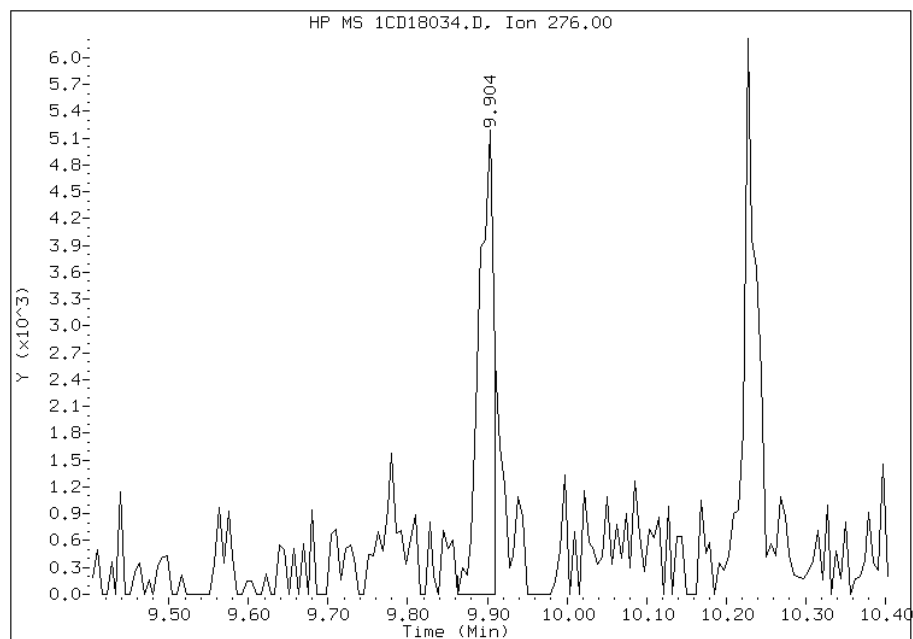
## Processing Integration Results

RT: 9.90  
Response: 7770  
Amount: 2  
Conc: 170



## Manual Integration Results

RT: 9.90  
Response: 6648  
Amount: 1  
Conc: 155



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:43  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV1337A-CS-SP Lab Sample ID: 680-89220-34  
 Matrix: Solid Lab File ID: 1CD18035.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 14:16  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 14.80(g) Date Analyzed: 04/18/2013 21:47  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 39.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	170		67	8.4
120-12-7	Anthracene	66		14	7.1
56-55-3	Benzo[a]anthracene	620		13	6.6
50-32-8	Benzo[a]pyrene	610		18	8.8
205-99-2	Benzo[b]fluoranthene	1000		21	10
191-24-2	Benzo[g,h,i]perylene	440		34	7.4
207-08-9	Benzo[k]fluoranthene	370		13	6.1
218-01-9	Chrysene	630		15	7.6
53-70-3	Dibenz(a,h)anthracene	180		34	6.9
206-44-0	Fluoranthene	850		34	6.7
86-73-7	Fluorene	21	J	34	6.9
193-39-5	Indeno[1,2,3-cd]pyrene	510		34	12
90-12-0	1-Methylnaphthalene	32	J	67	7.4
91-57-6	2-Methylnaphthalene	87		67	12
91-20-3	Naphthalene	58	J	67	7.4
85-01-8	Phenanthrene	200		13	6.6
129-00-0	Pyrene	890		34	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18035.D  
 Lab Smp Id: 680-89220-A-34-A Client Smp ID: CV1337A-CS-SP  
 Inj Date : 18-APR-2013 21:47  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-34-a  
 Misc Info : 680-89220-A-34-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 35  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.800	Weight Extracted
M	39.906	% 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		3.663	3.663	(1.000)	254246	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	176320	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	316675	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	35901	7.53576	847.2955	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	331631	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	315173	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	3569	0.51930	58.3887(Q)	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	2308	0.77485	87.1212	
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	1241	0.28269	31.7845(Q)	
5 Acenaphthylene	152		4.663	4.663	(0.981)	11462	1.53413	172.4924	
9 Fluorene	166		5.092	5.086	(1.072)	1059	0.18482	20.7808(Q)	
11 Phenanthrene	178		5.710	5.704	(1.003)	16294	1.75860	197.7309	
12 Anthracene	178		5.739	5.739	(1.008)	5418	0.58933	66.2628	
13 Carbazole	167		5.851	5.851	(1.028)	1765	0.20614	23.1772(Q)	

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
-----	----		----	-----	-----	-----	-----	-----	
15 Fluoranthene	202		6.539	6.539	(1.149)	77634	7.55709	849.6936	
16 Pyrene	202		6.704	6.704	(0.879)	74470	7.89332	887.4989	
17 Benzo(a)anthracene	228		7.621	7.615	(0.999)	51489	5.49048	617.3308	
19 Chrysene	228		7.645	7.645	(1.002)	51619	5.56416	625.6151	
20 Benzo(b)fluoranthene	252		8.451	8.445	(0.962)	70816	8.89596	1000.2321(M)	
21 Benzo(k)fluoranthene	252		8.468	8.468	(0.964)	29469	3.27153	367.8404(QM)	
22 Benzo(a)pyrene	252		8.727	8.727	(0.993)	44277	5.38086	605.0056	
24 Indeno(1,2,3-cd)pyrene	276		9.904	9.898	(1.127)	32031	4.55757	512.4374(M)	
25 Dibenzo(a,h)anthracene	278		9.904	9.909	(1.127)	9319	1.60170	180.0902	
26 Benzo(g,h,i)perylene	276		10.233	10.233	(1.165)	30343	3.93415	442.3430	

QC Flag Legend

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

Data File: 1CD18035.D

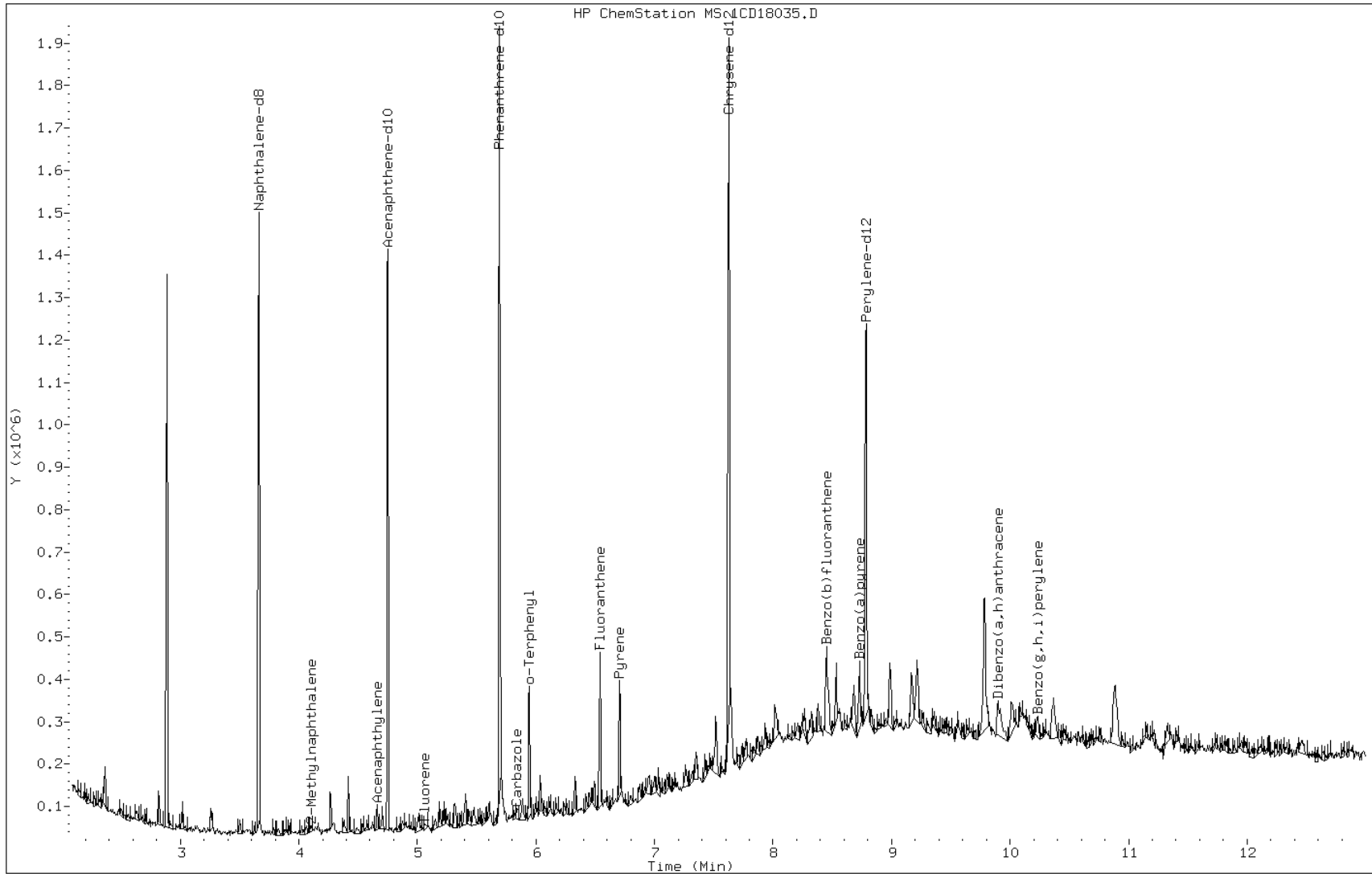
Date: 18-APR-2013 21:47

Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

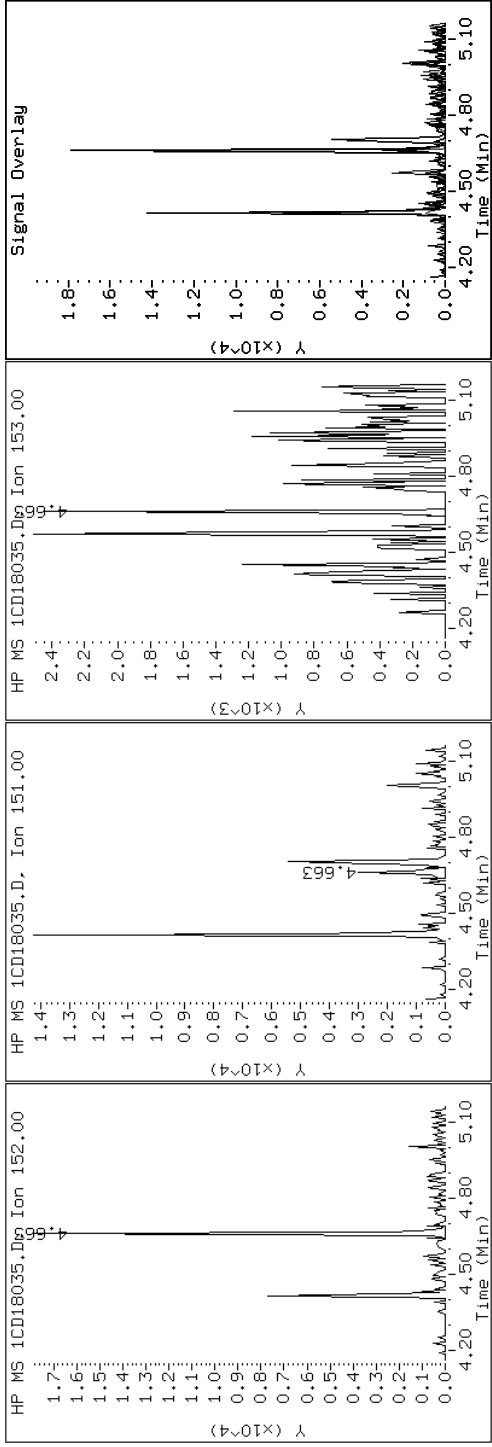
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

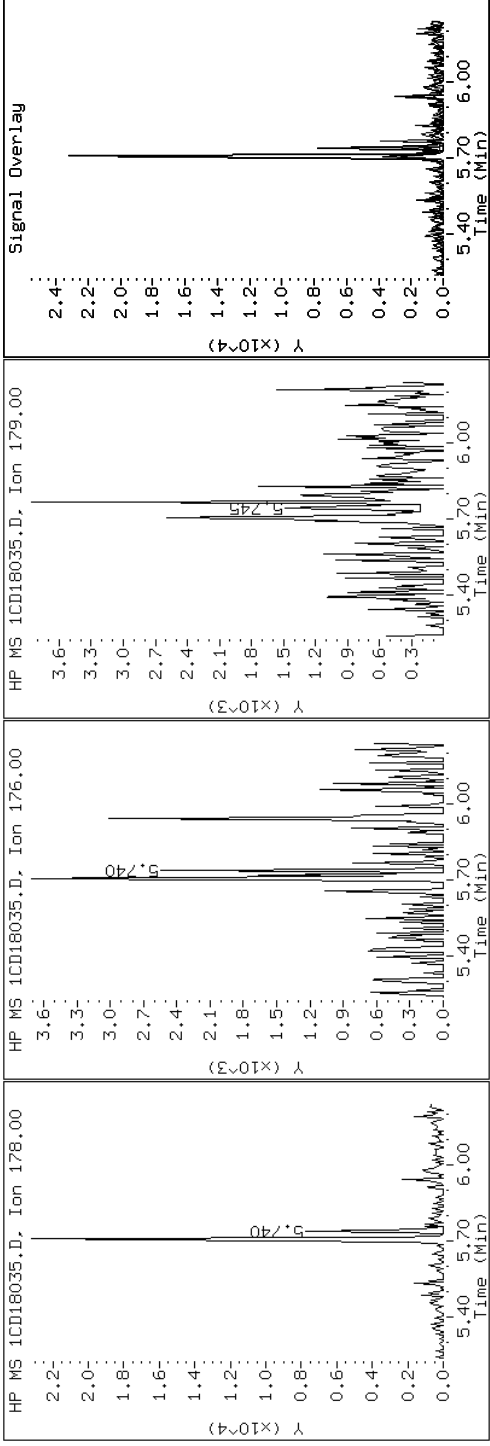
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

12 Anthracene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

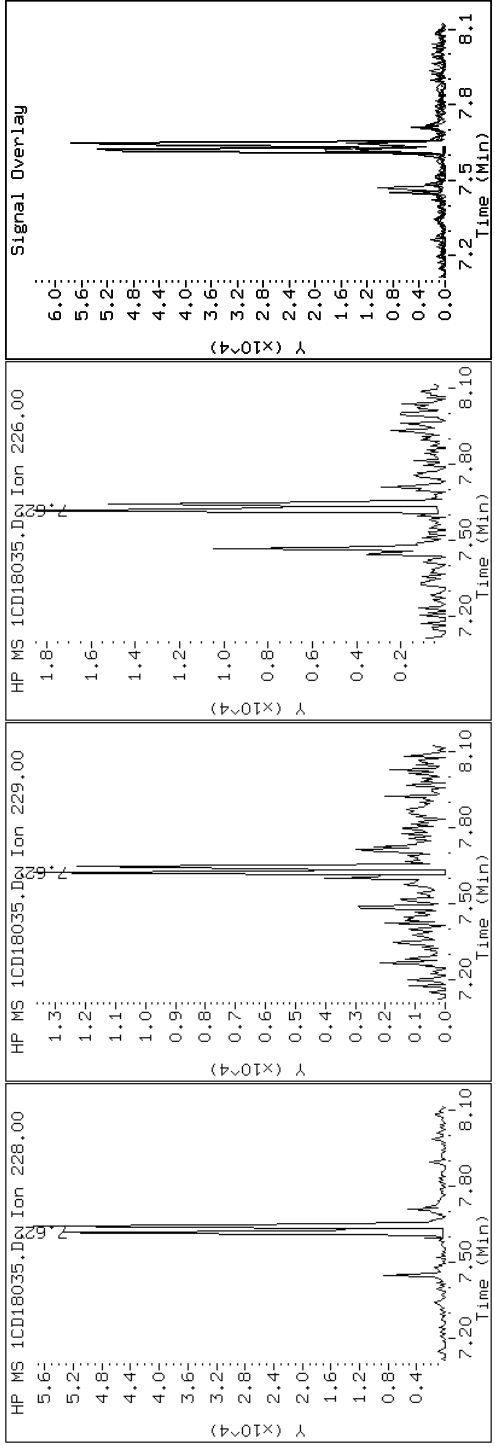
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD18035.D

Date: 18-APR-2013 21:47

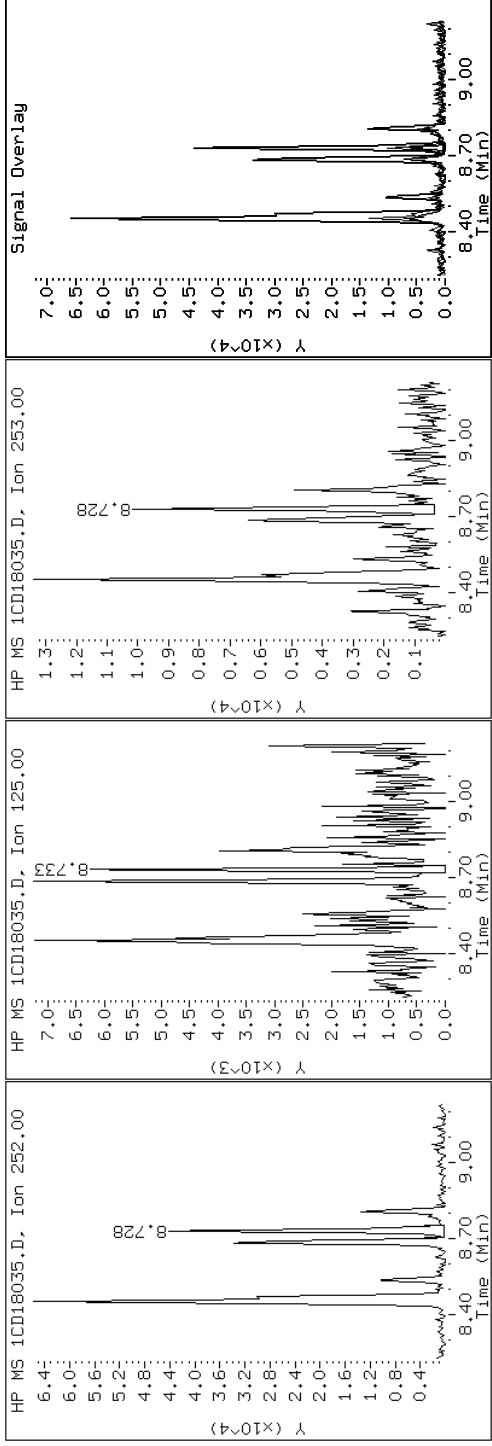
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

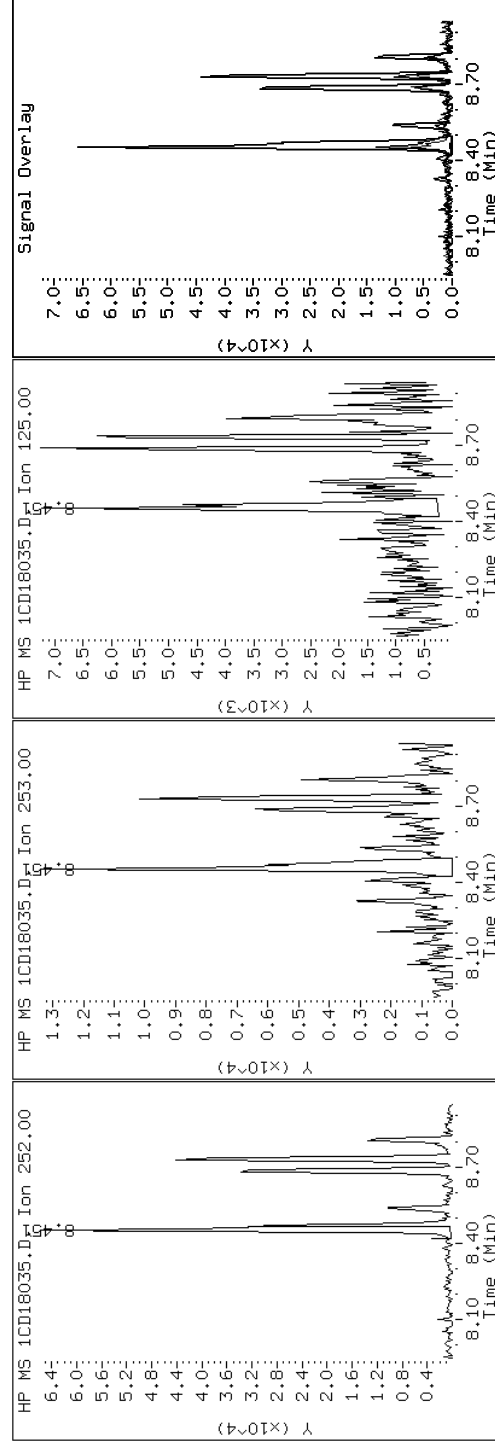
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

### 20 Benzo(b)fluoranthene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

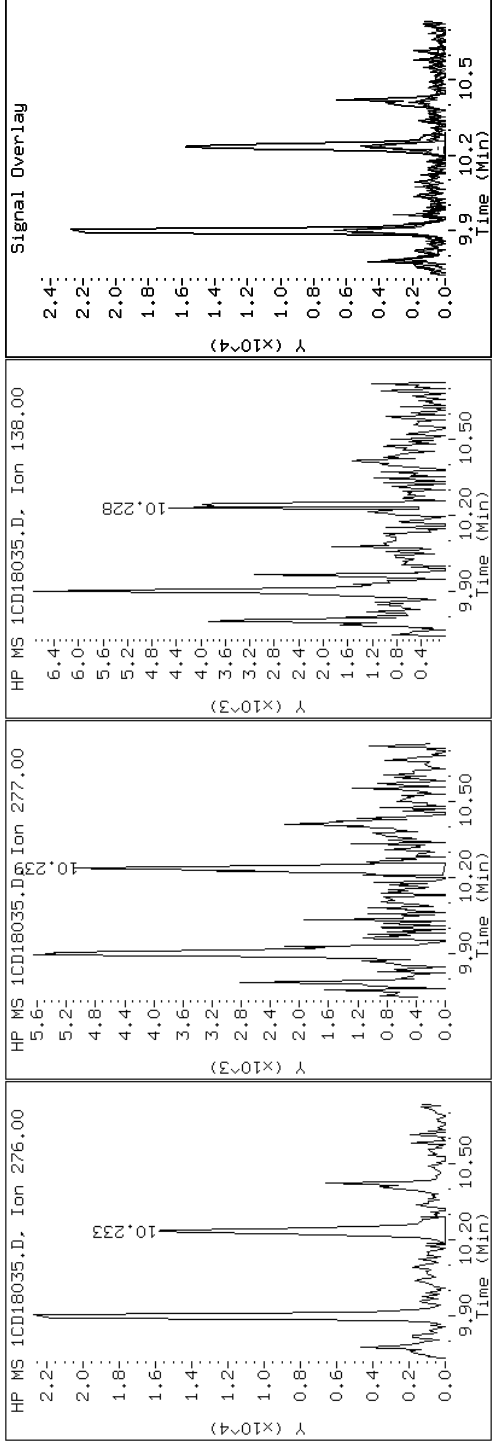
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

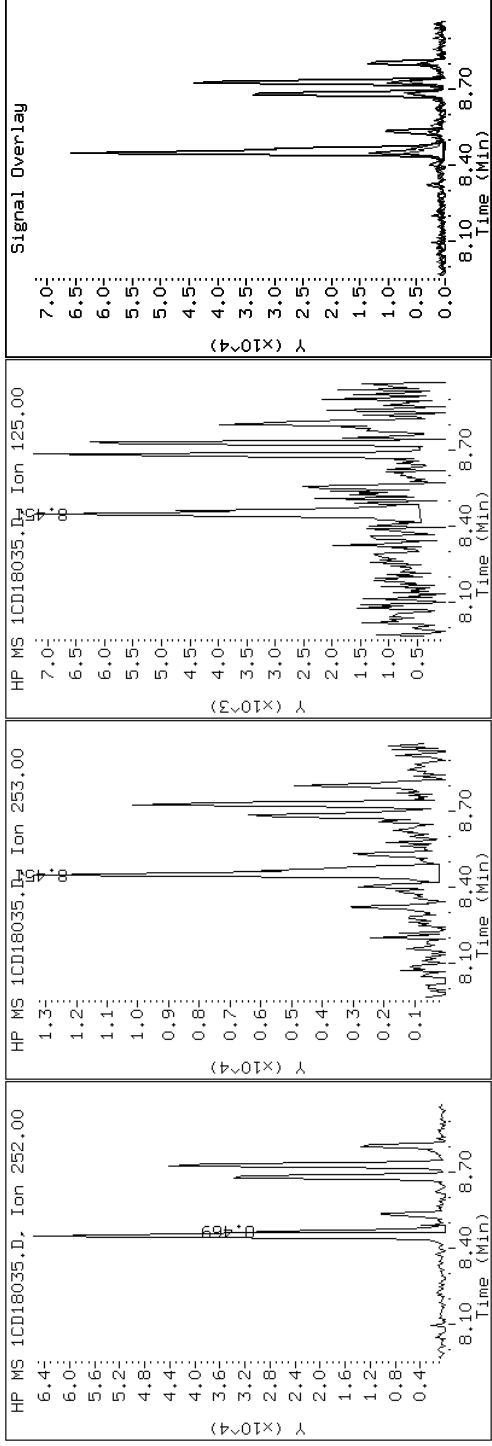
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

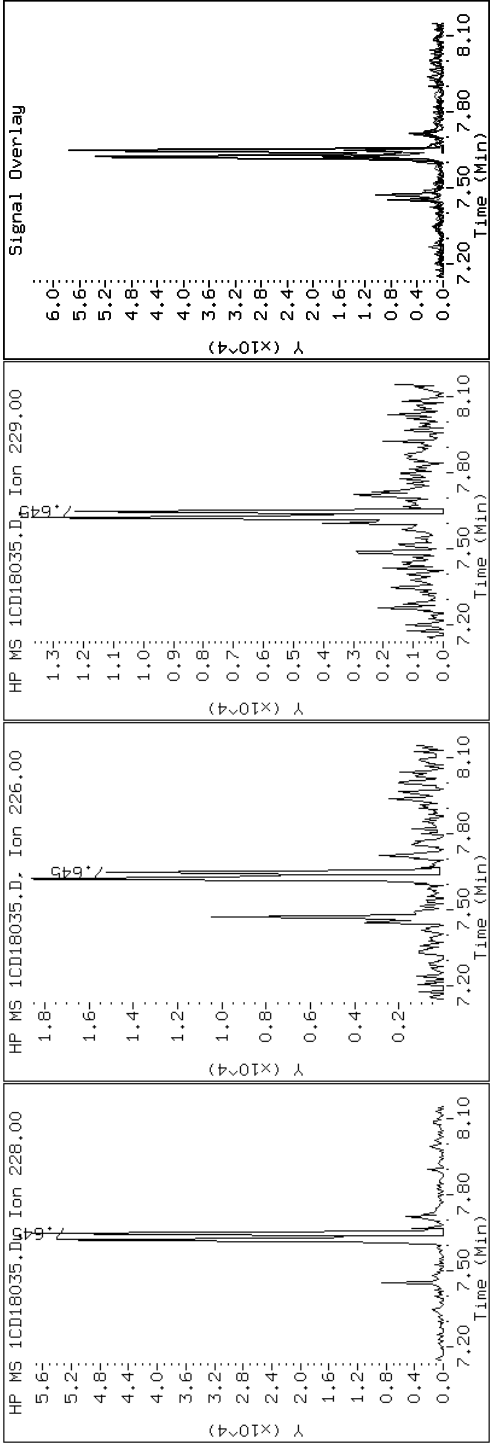
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

19 Chrysene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

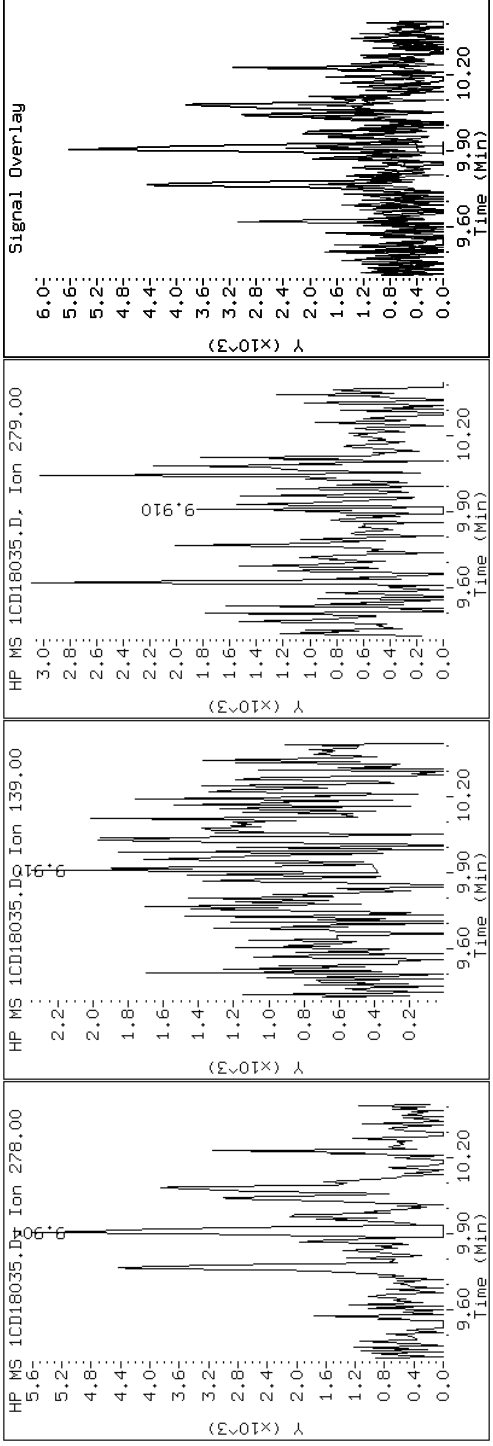
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

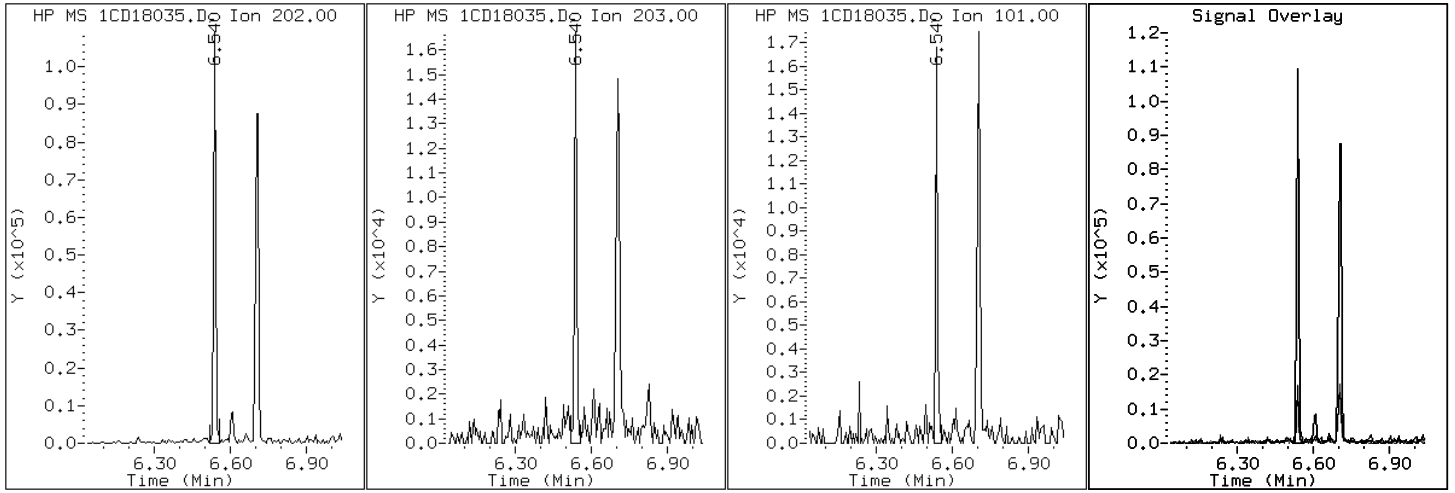
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

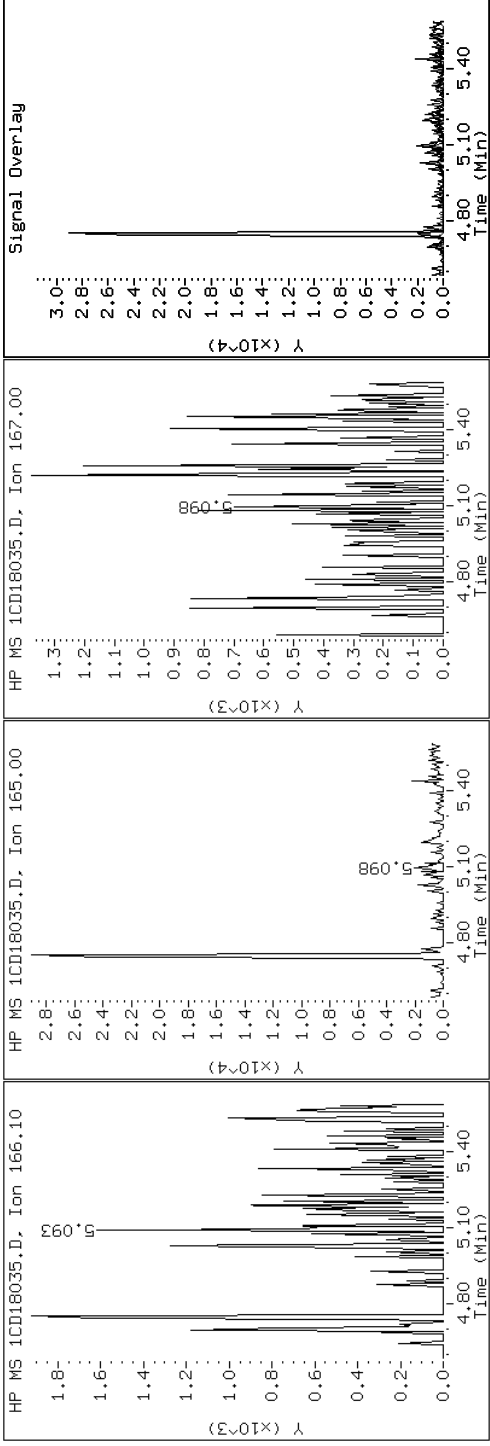
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

9 Fluorene





Data File: 1CD18035.D

Date: 18-APR-2013 21:47

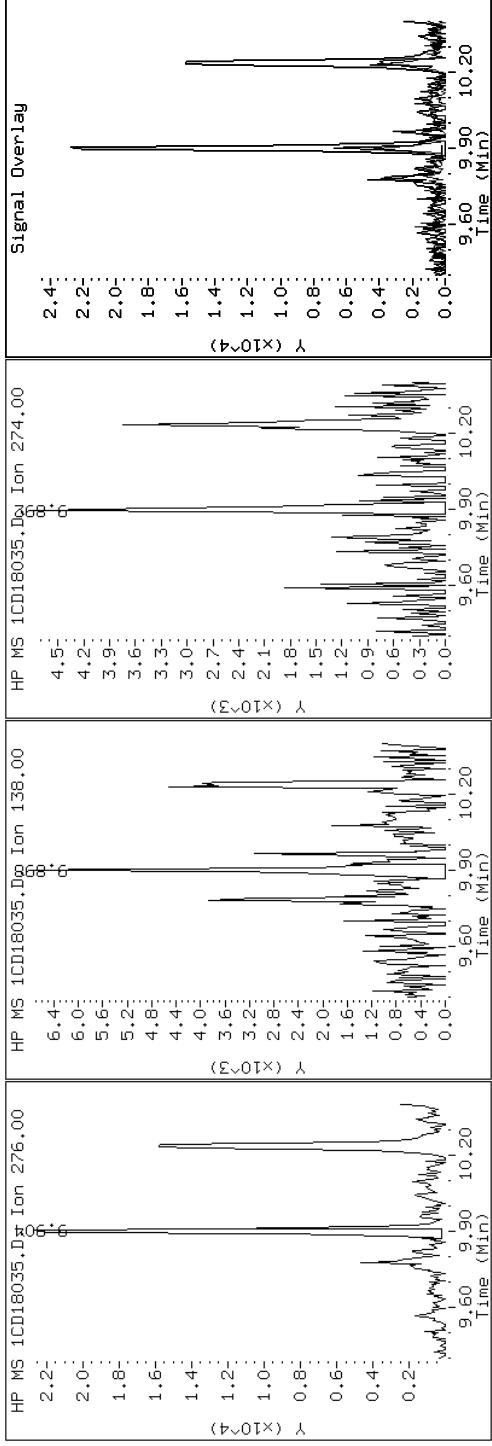
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

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



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

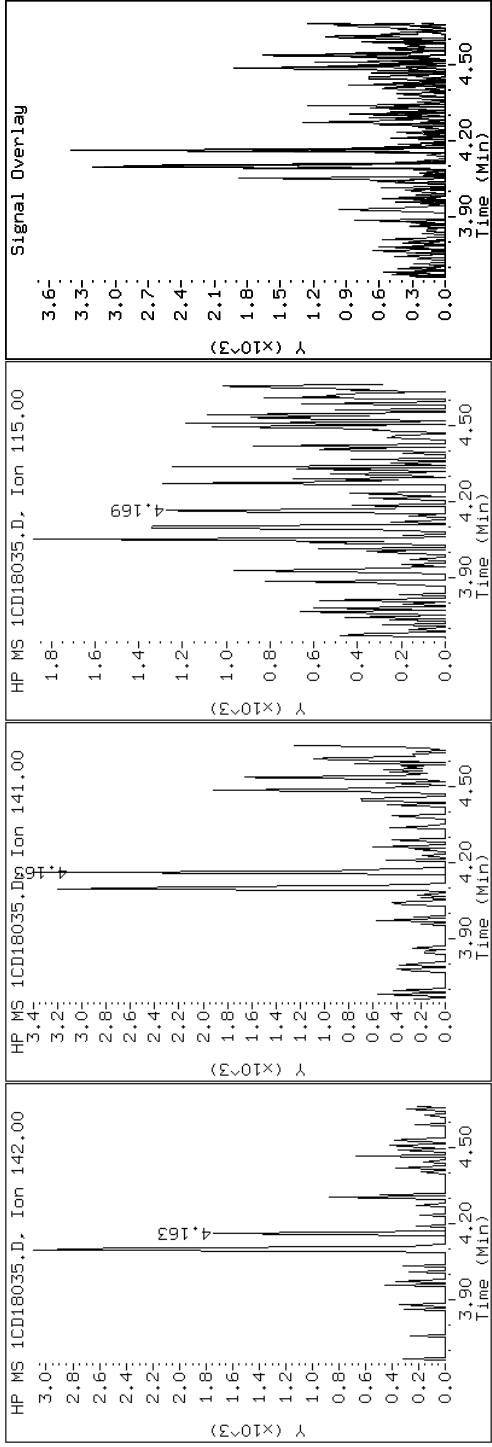
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

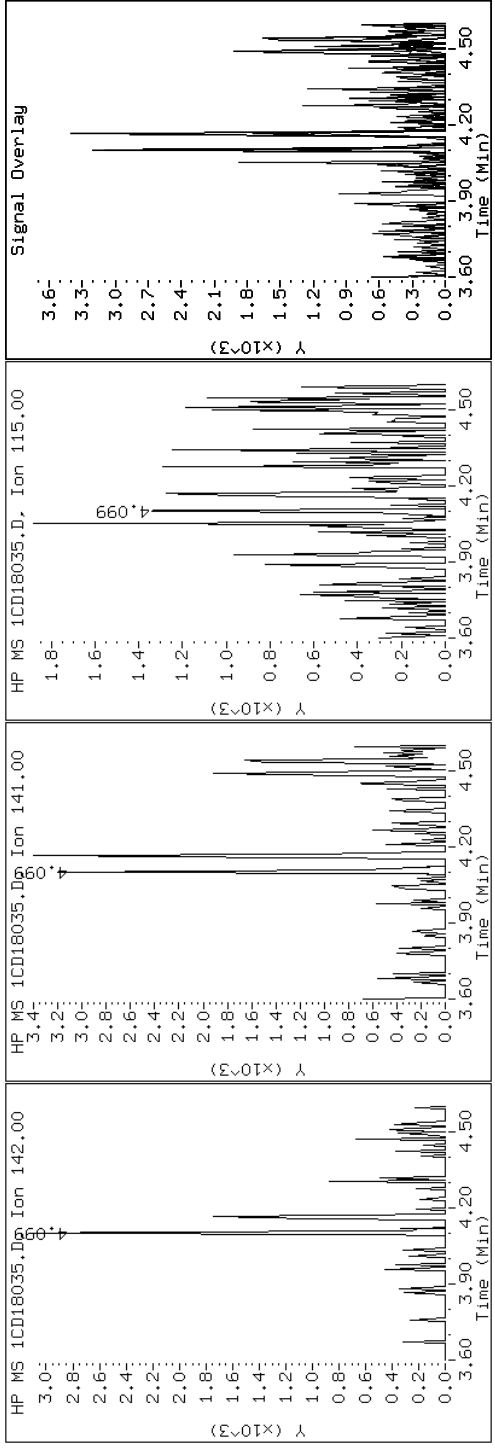
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

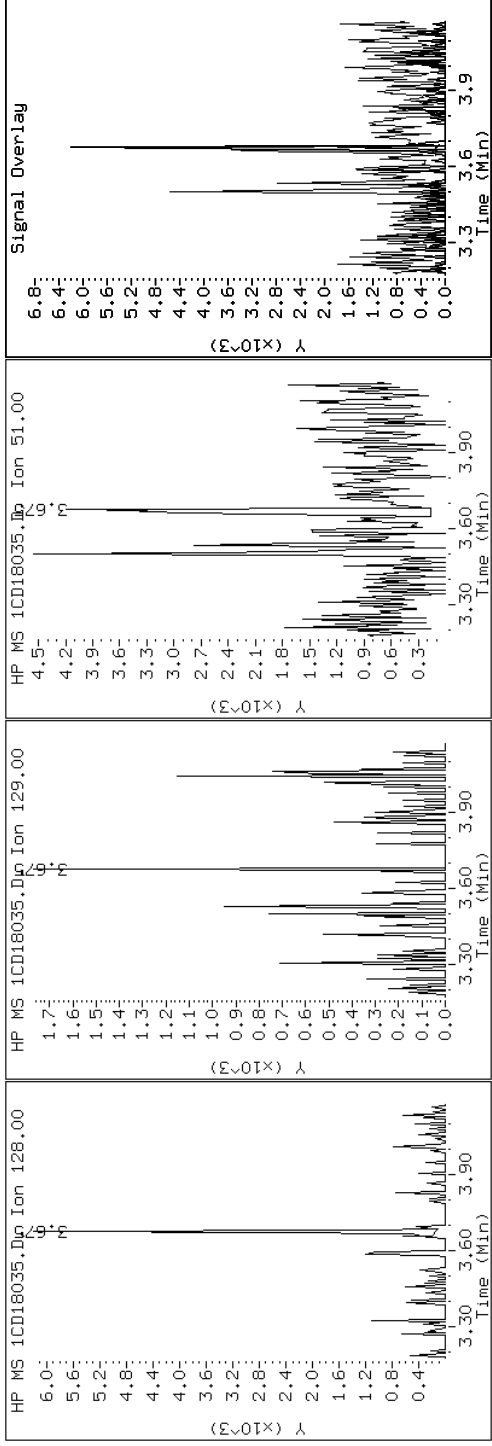
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

2 Naphthalene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

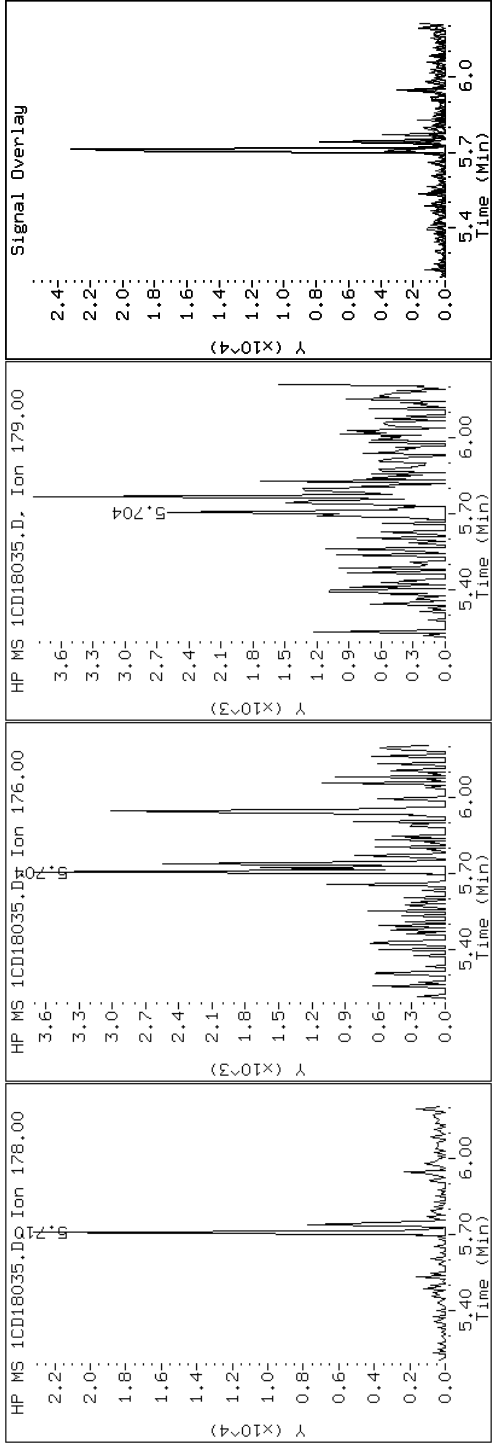
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18035.D

Date: 18-APR-2013 21:47

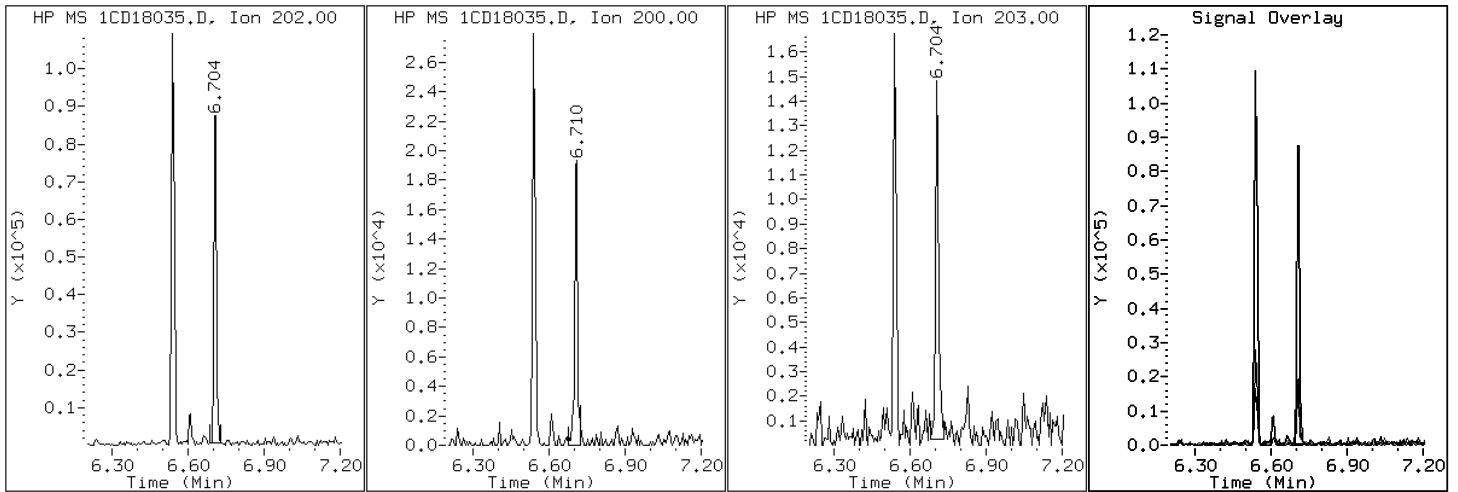
Client ID: CV1337A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-34-a

Operator: SCC

16 Pyrene

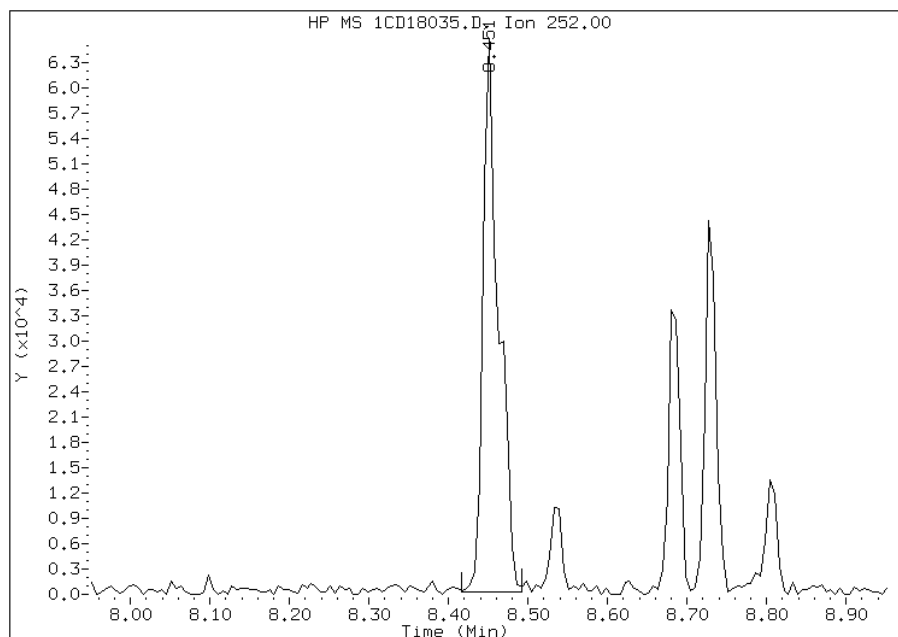


# Manual Integration Report

Data File: 1CD18035.D  
Inj. Date and Time: 18-APR-2013 21:47  
Instrument ID: BSMC5973.i  
Client ID: CV1337A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

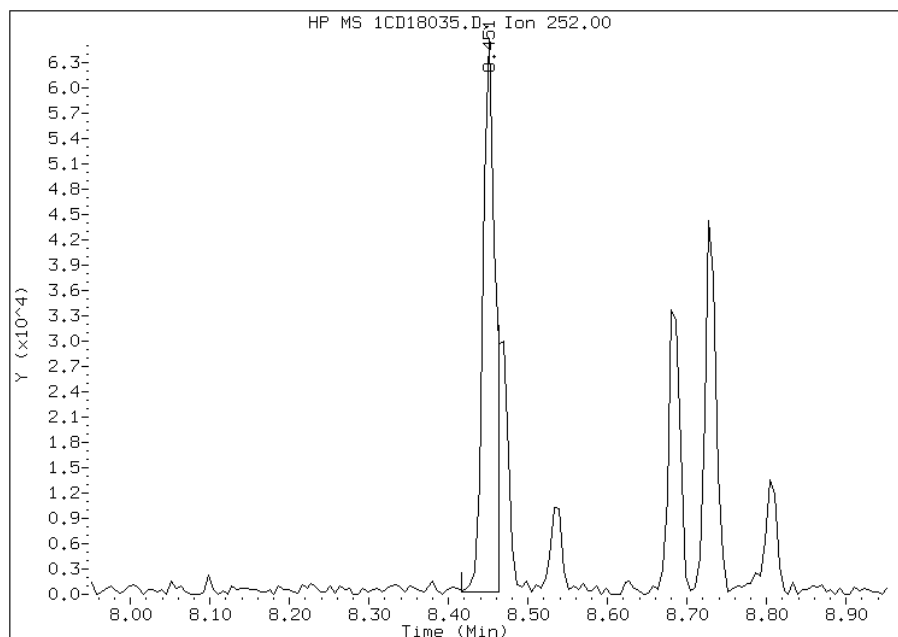
## Processing Integration Results

RT: 8.45  
Response: 89387  
Amount: 11  
Conc: 1263



## Manual Integration Results

RT: 8.45  
Response: 70816  
Amount: 9  
Conc: 1000



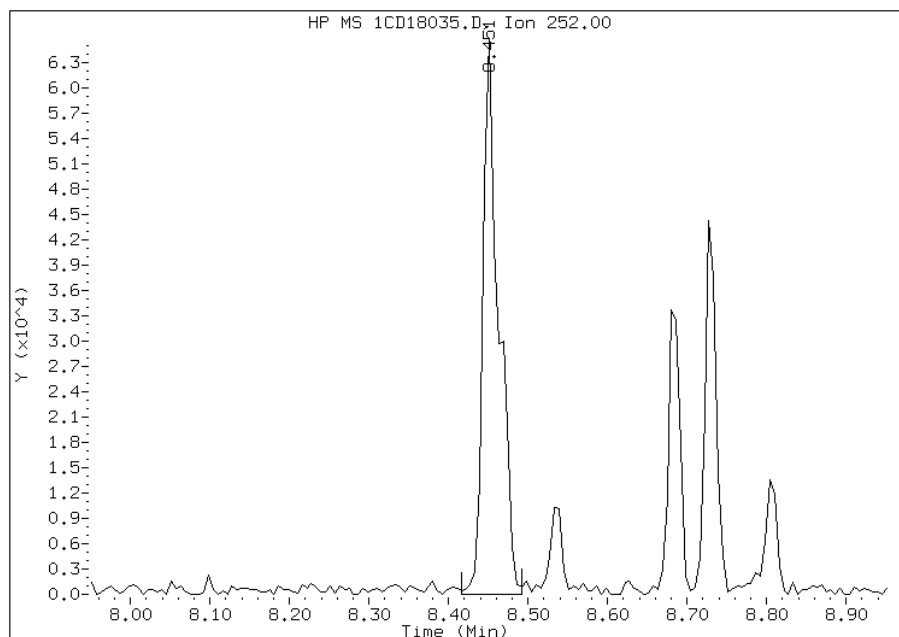
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:44  
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD18035.D  
Inj. Date and Time: 18-APR-2013 21:47  
Instrument ID: BSMC5973.i  
Client ID: CV1337A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

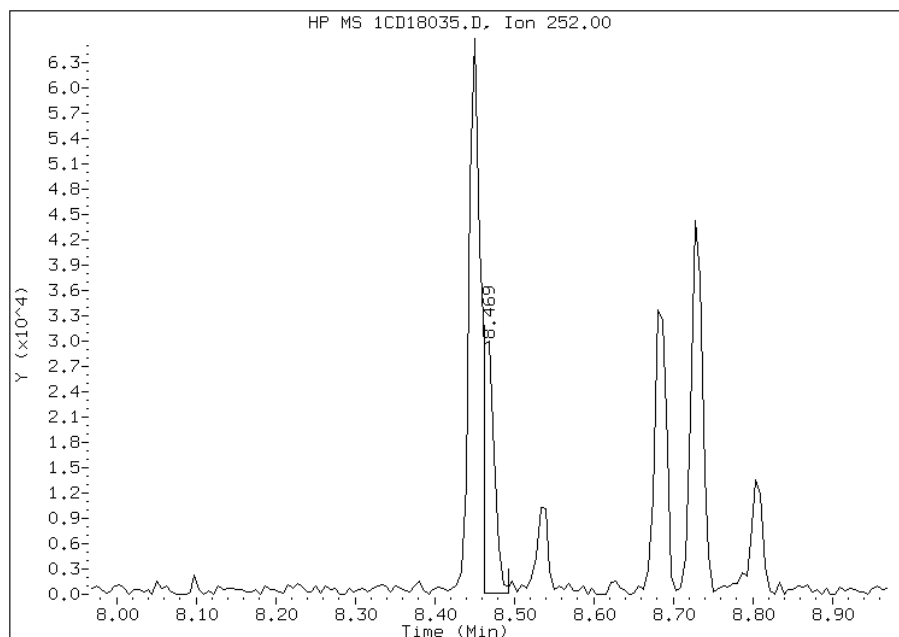
Processing Integration Results

RT: 8.45  
Response: 90976  
Amount: 10  
Conc: 1136



Manual Integration Results

RT: 8.47  
Response: 29469  
Amount: 3  
Conc: 368



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:44  
Manual Integration Reason: Baseline Event

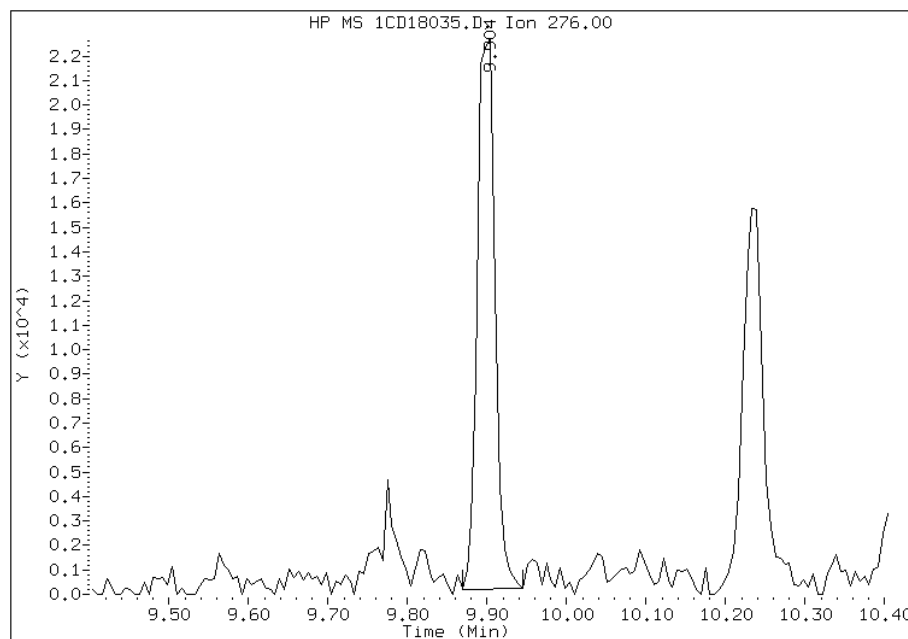


# Manual Integration Report

Data File: 1CD18035.D  
Inj. Date and Time: 18-APR-2013 21:47  
Instrument ID: BSMC5973.i  
Client ID: CV1337A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

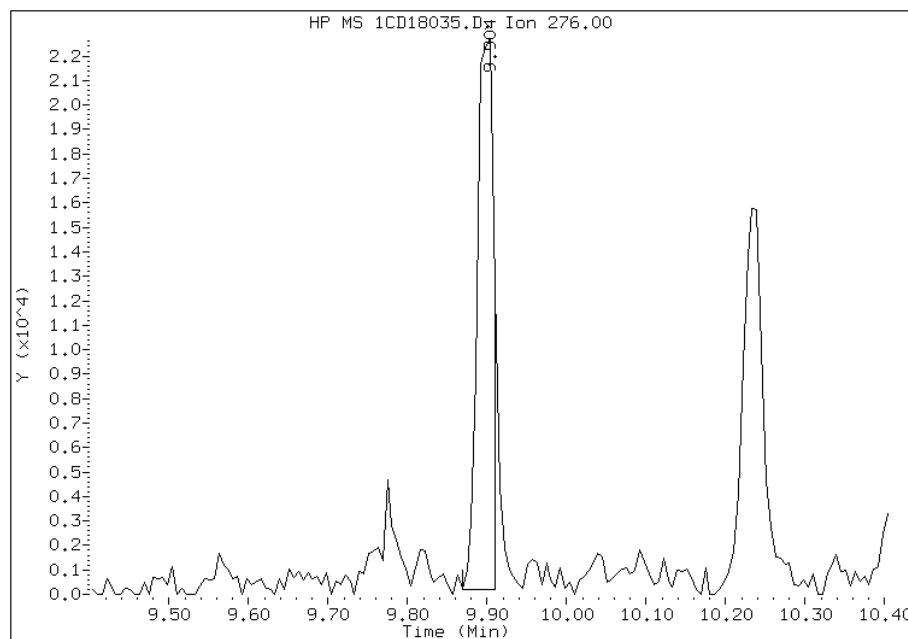
## Processing Integration Results

RT: 9.90  
Response: 34594  
Amount: 5  
Conc: 548



## Manual Integration Results

RT: 9.90  
Response: 32031  
Amount: 5  
Conc: 512



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:44  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV1337B-CS-SP Lab Sample ID: 680-89220-35  
 Matrix: Solid Lab File ID: 1CD18036.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 14:25  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.48(g) Date Analyzed: 04/18/2013 22:05  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 41.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	210		66	8.2
120-12-7	Anthracene	89		14	6.9
56-55-3	Benzo[a]anthracene	670		13	6.4
50-32-8	Benzo[a]pyrene	600		17	8.6
205-99-2	Benzo[b]fluoranthene	1100		20	10
191-24-2	Benzo[g,h,i]perylene	590		33	7.3
207-08-9	Benzo[k]fluoranthene	430		13	5.9
218-01-9	Chrysene	690		15	7.4
53-70-3	Dibenz(a,h)anthracene	200		33	6.8
206-44-0	Fluoranthene	1300		33	6.6
86-73-7	Fluorene	59		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	470		33	12
90-12-0	1-Methylnaphthalene	34	J	66	7.3
91-57-6	2-Methylnaphthalene	93		66	12
91-20-3	Naphthalene	150		66	7.3
85-01-8	Phenanthrene	480		13	6.4
129-00-0	Pyrene	1200		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C041813.b\1CD18036.D  
 Lab Smp Id: 680-89220-A-35-A Client Smp ID: CV1337B-CS-SP  
 Inj Date : 18-APR-2013 22:05  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-35-a  
 Misc Info : 680-89220-A-35-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 36  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.480	Weight Extracted
M	41.242	% 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		3.663	3.663	(1.000)	248130	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	173824	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	317127	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	35780	7.50296	824.8830	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	343703	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	314791	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	8929	1.33123	146.3565	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	2575	0.84675	93.0920	
4 1-Methylnaphthalene	142		4.162	4.163	(1.136)	1328	0.30996	34.0775(Q)	
5 Acenaphthylene	152		4.662	4.663	(0.981)	14009	1.90196	209.1031	
9 Fluorene	166		5.086	5.086	(1.071)	3057	0.54119	59.4985	
11 Phenanthrene	178		5.709	5.704	(1.003)	40728	4.38126	481.6804	
12 Anthracene	178		5.739	5.739	(1.008)	7426	0.80660	88.6784	
13 Carbazole	167		5.851	5.851	(1.028)	8252	0.96239	105.8058	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.539	6.539	(1.149)	122916	11.9479	1313.5640
16 Pyrene	202	6.709	6.704	(0.880)	103495	10.5845	1163.6691
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	58816	6.05150	665.3078
19 Chrysene	228	7.645	7.645	(1.002)	60364	6.27826	690.2386
20 Benzo(b)fluoranthene	252	8.450	8.445	(0.962)	80688	10.1484	1115.7243(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	35211	3.91373	430.2797(M)
22 Benzo(a)pyrene	252	8.727	8.727	(0.993)	44647	5.43241	597.2444
24 Indeno(1,2,3-cd)pyrene	276	9.897	9.898	(1.127)	29547	4.25810	468.1398(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.128)	11409	1.86238	204.7522
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	41211	5.34974	588.1557

QC Flag Legend

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

Data File: 1CD18036.D

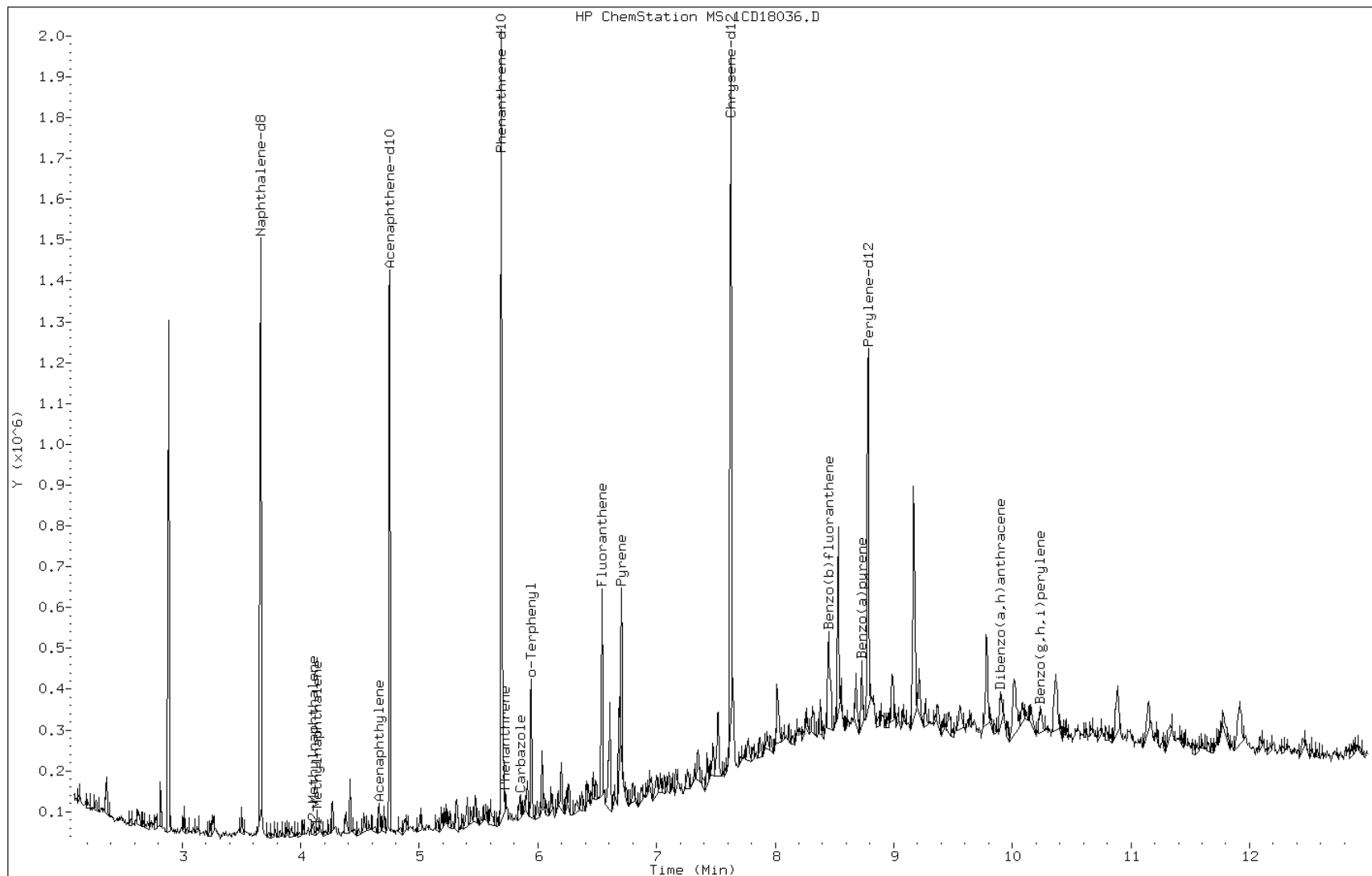
Date: 18-APR-2013 22:05

Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

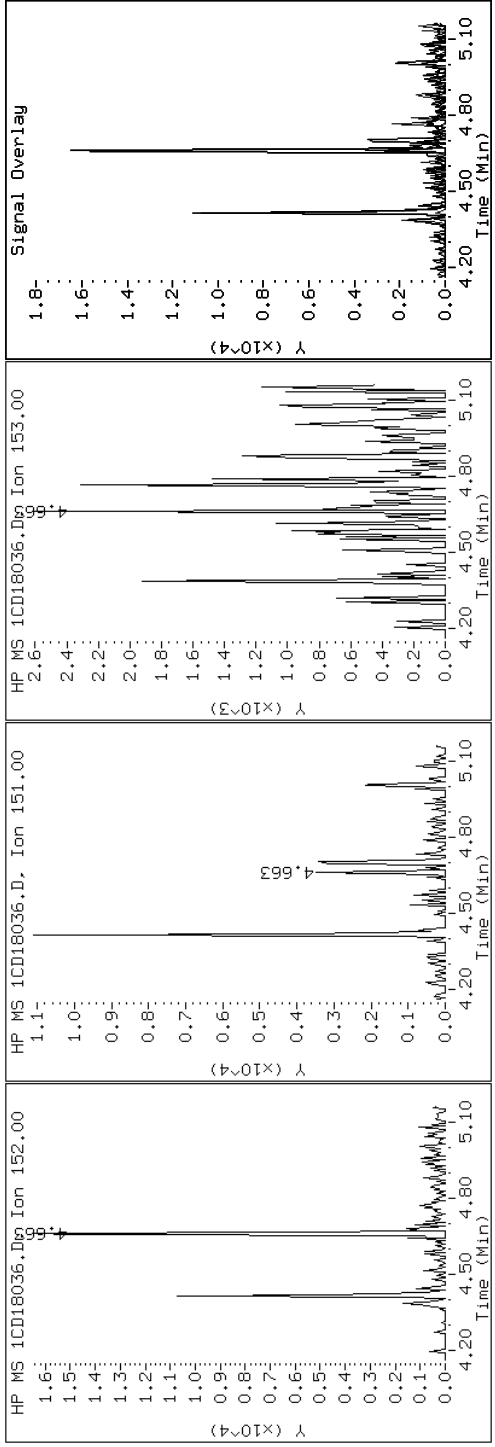
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

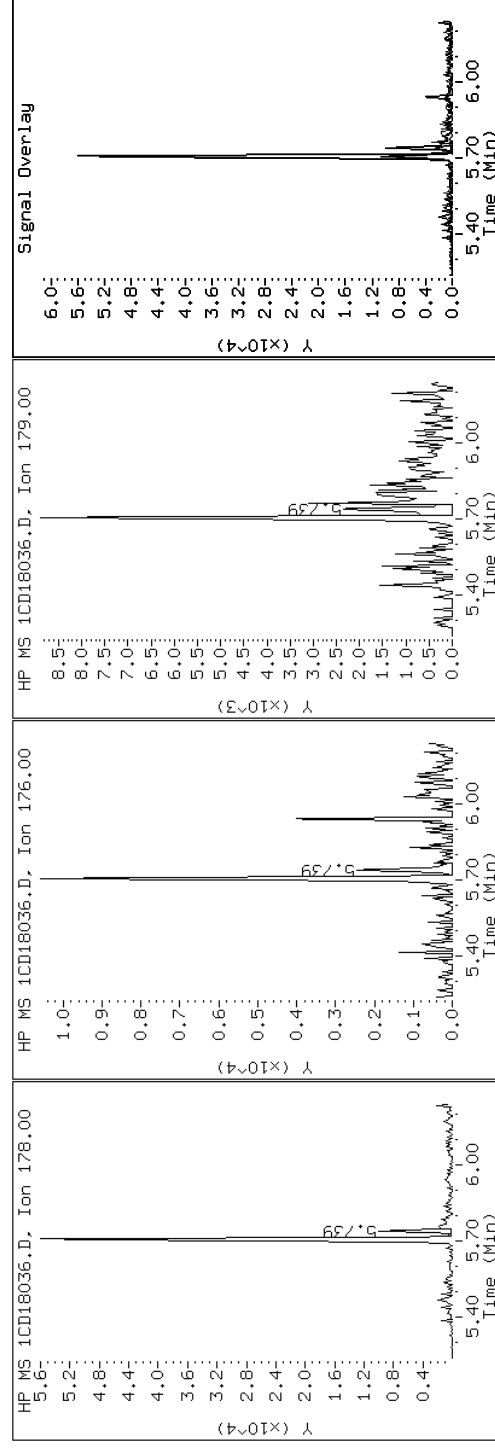
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

### 12 Anthracene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

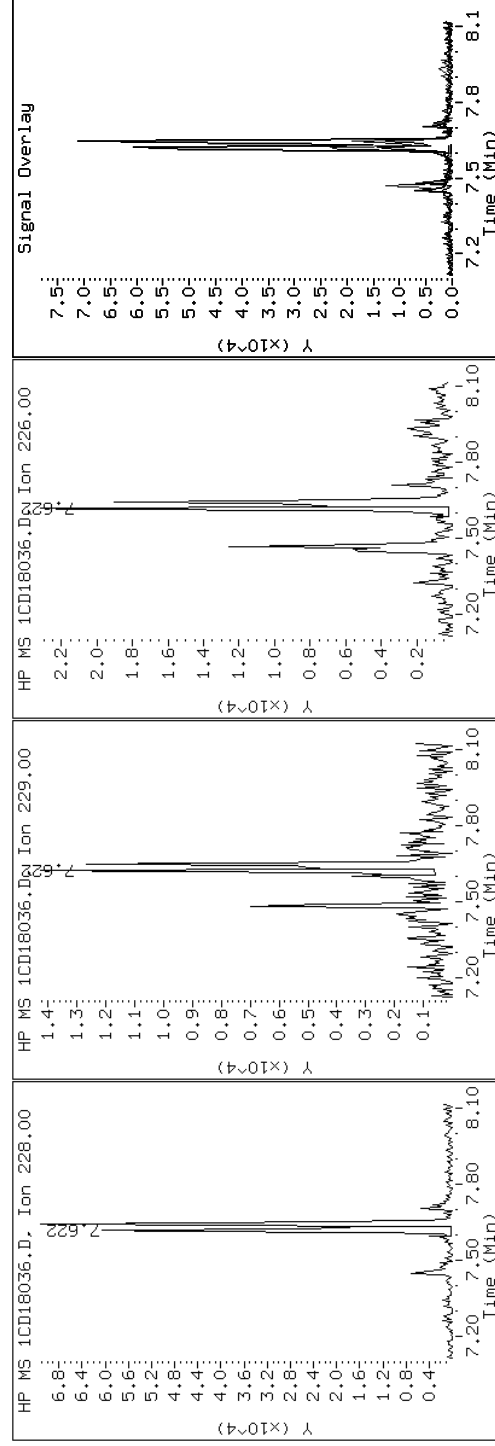
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD18036.D

Date: 18-APR-2013 22:05

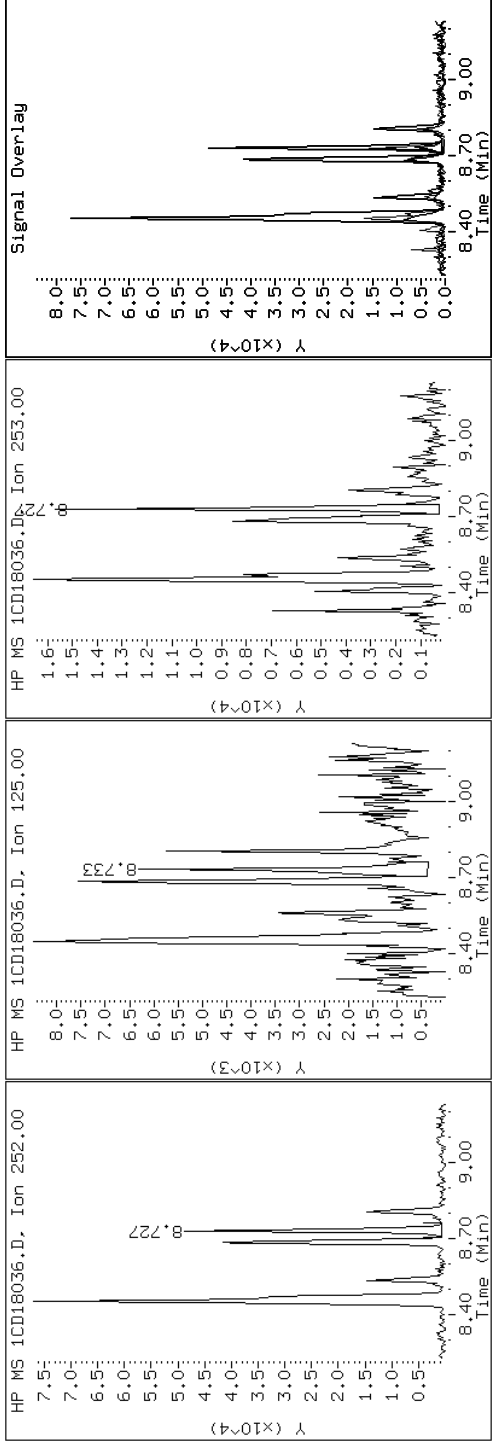
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

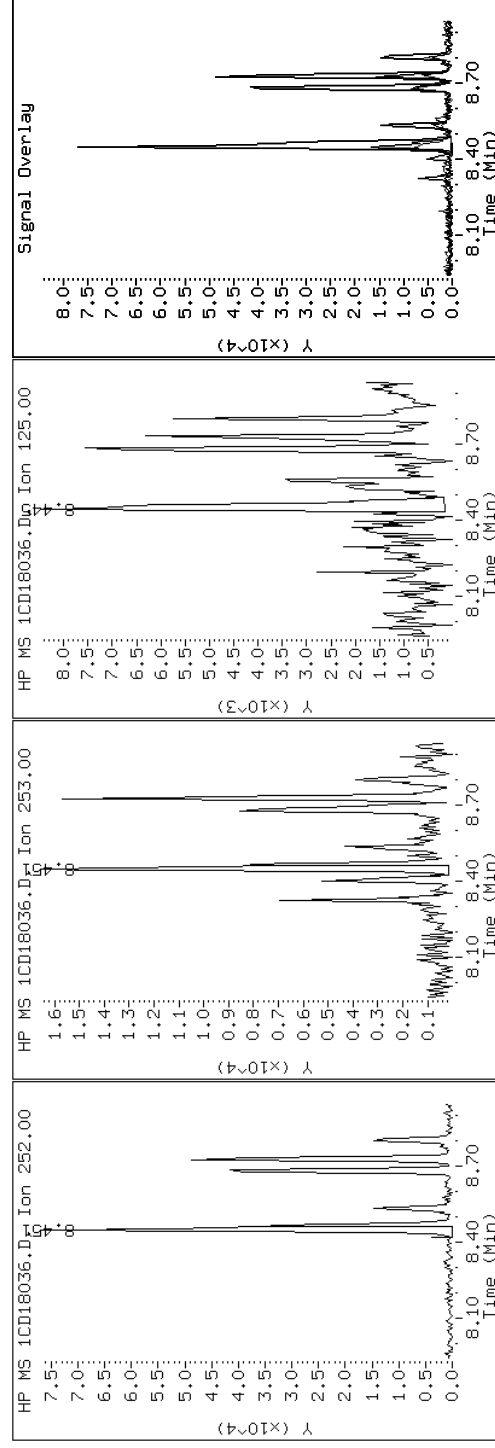
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

### 20 Benzo(b)fluoranthene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

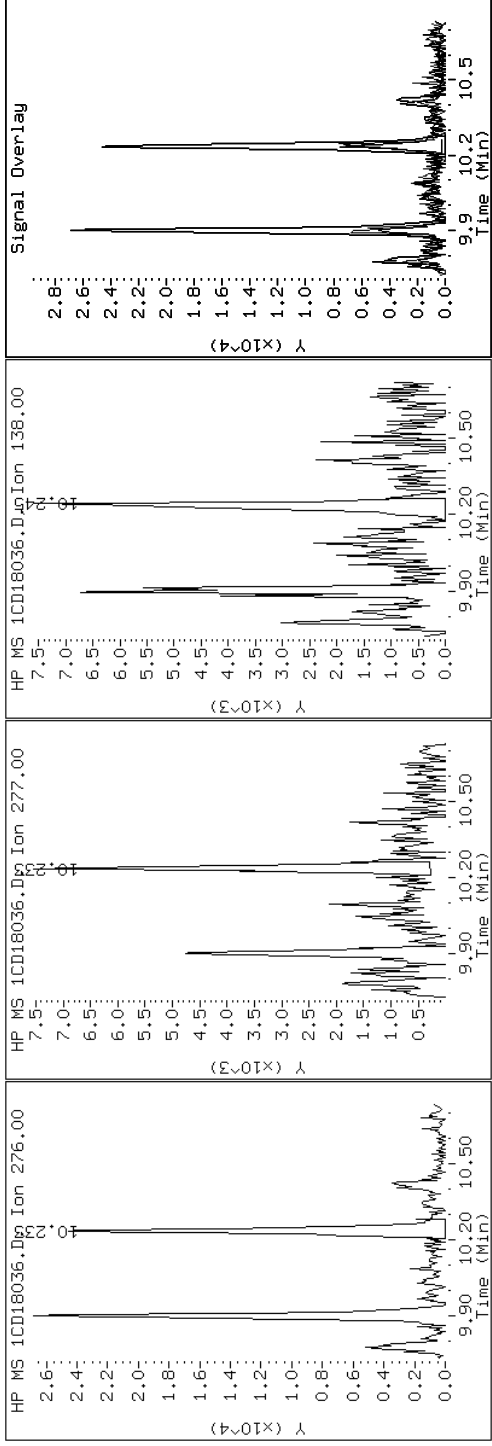
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

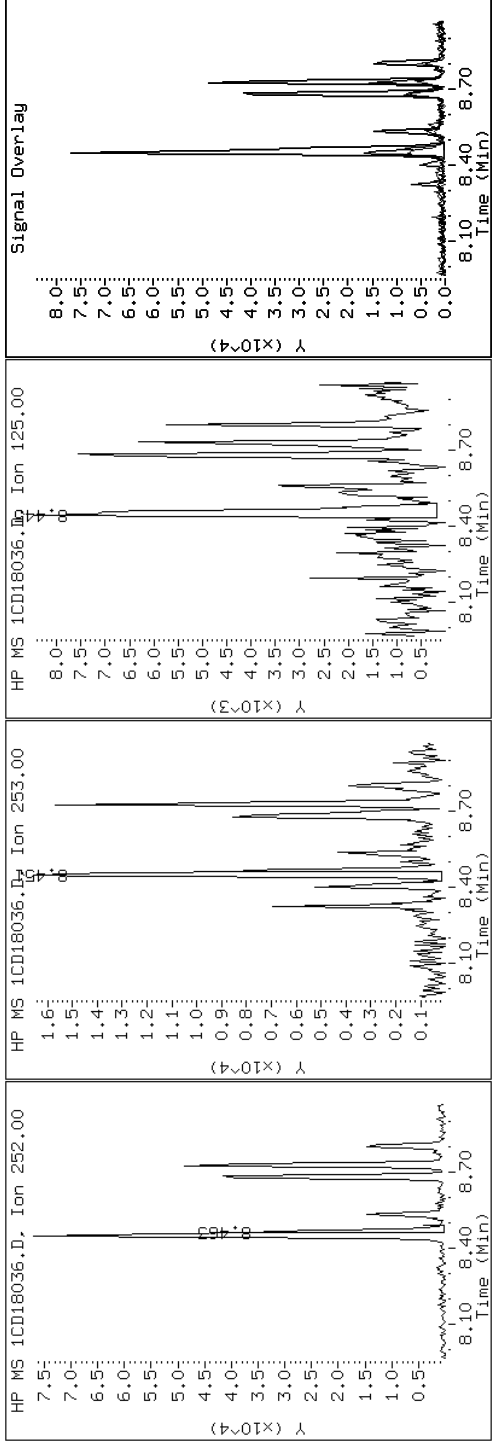
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

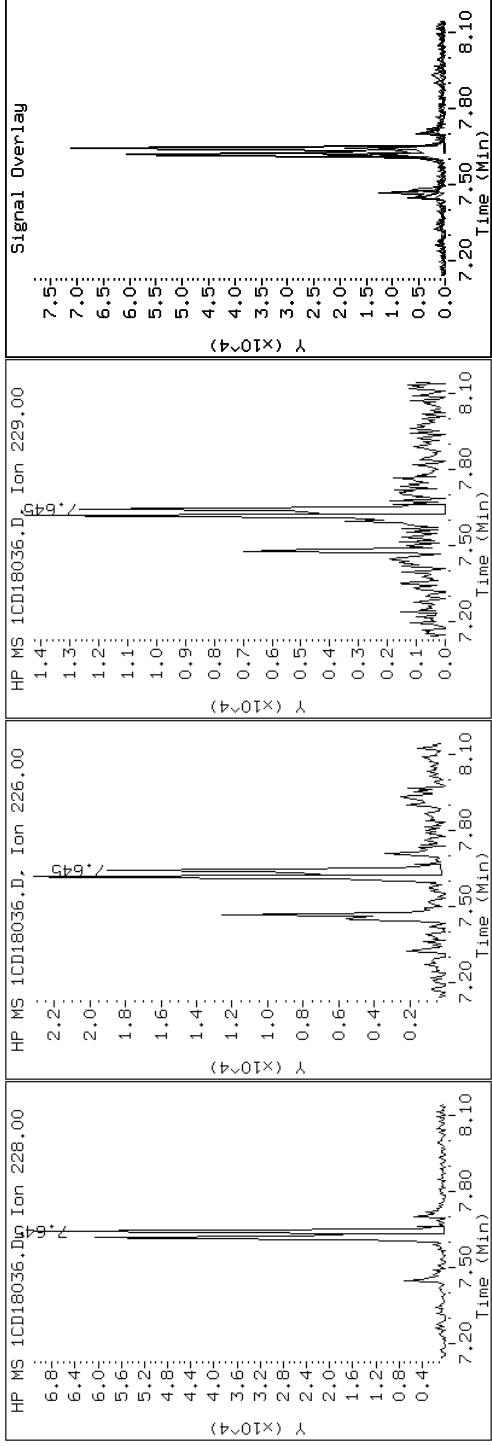
Client ID: CVI337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

19 Chrysene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

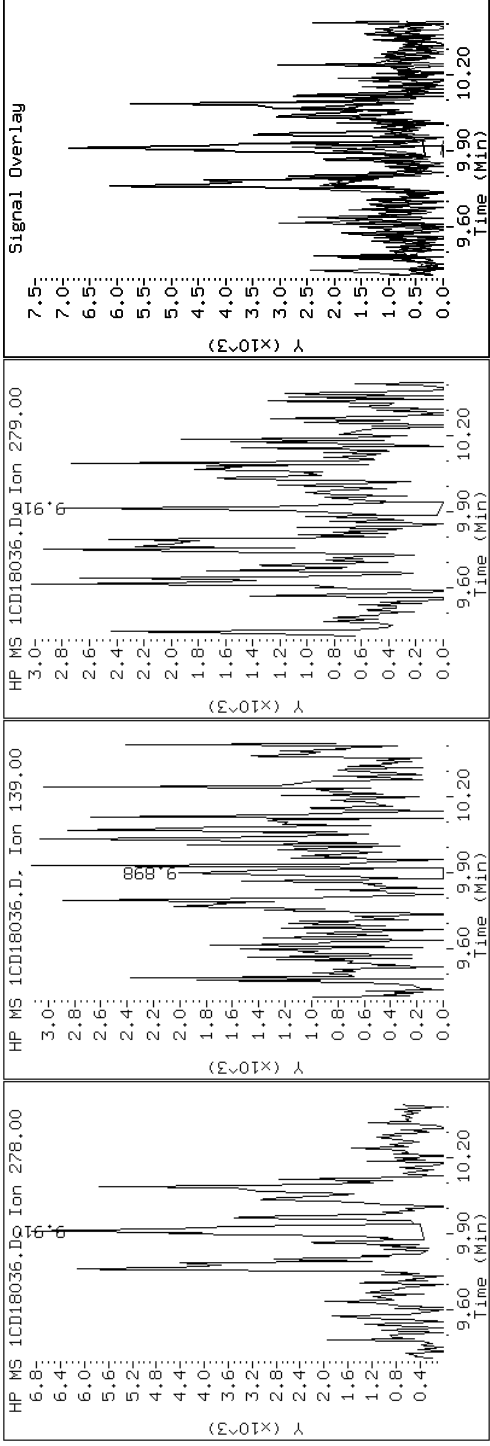
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

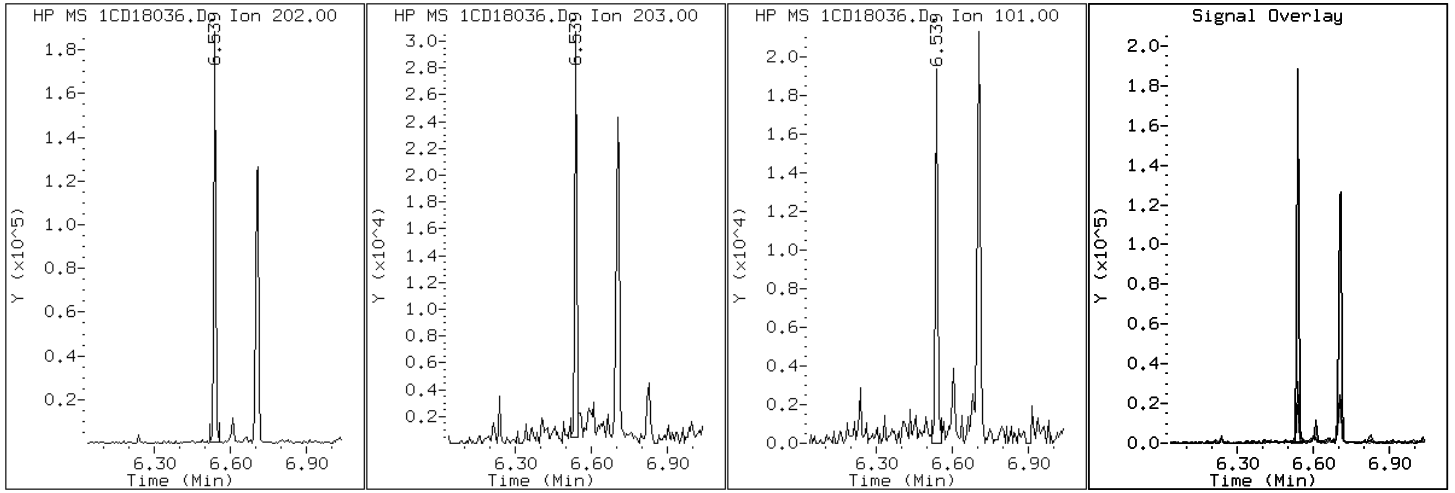
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

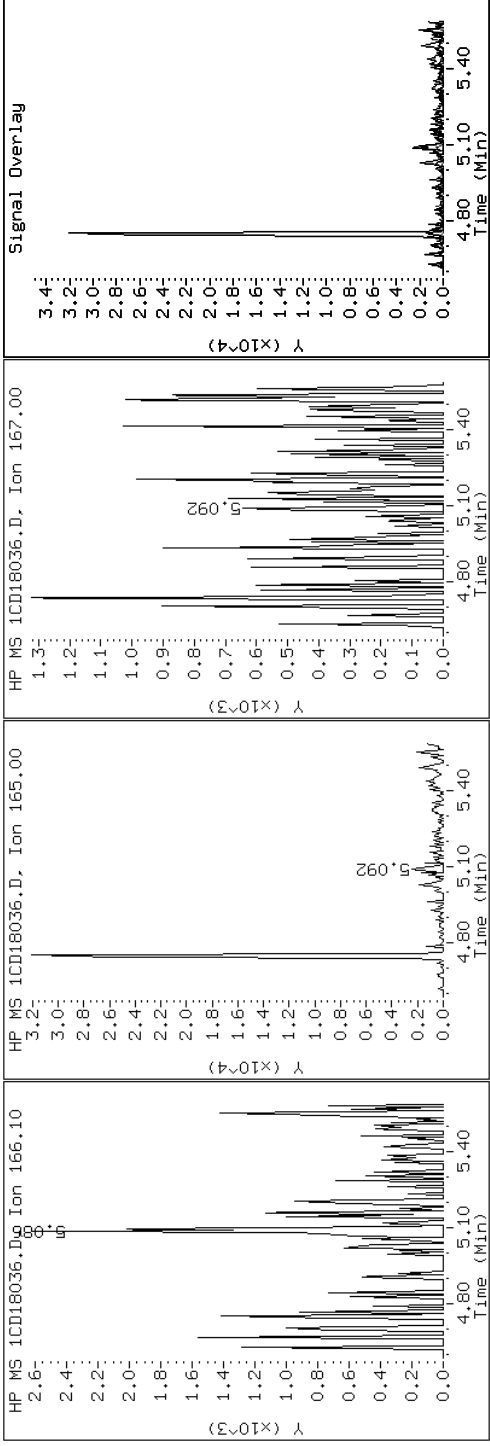
Client ID: CVI337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

9 Fluorene





Data File: 1CD18036.D

Date: 18-APR-2013 22:05

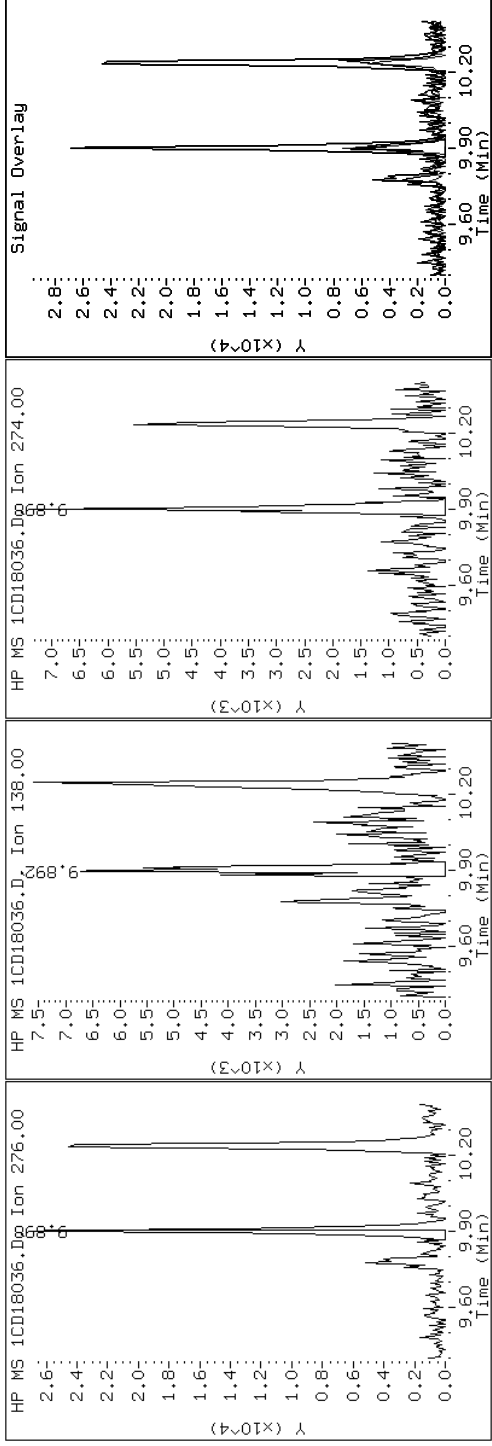
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

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



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

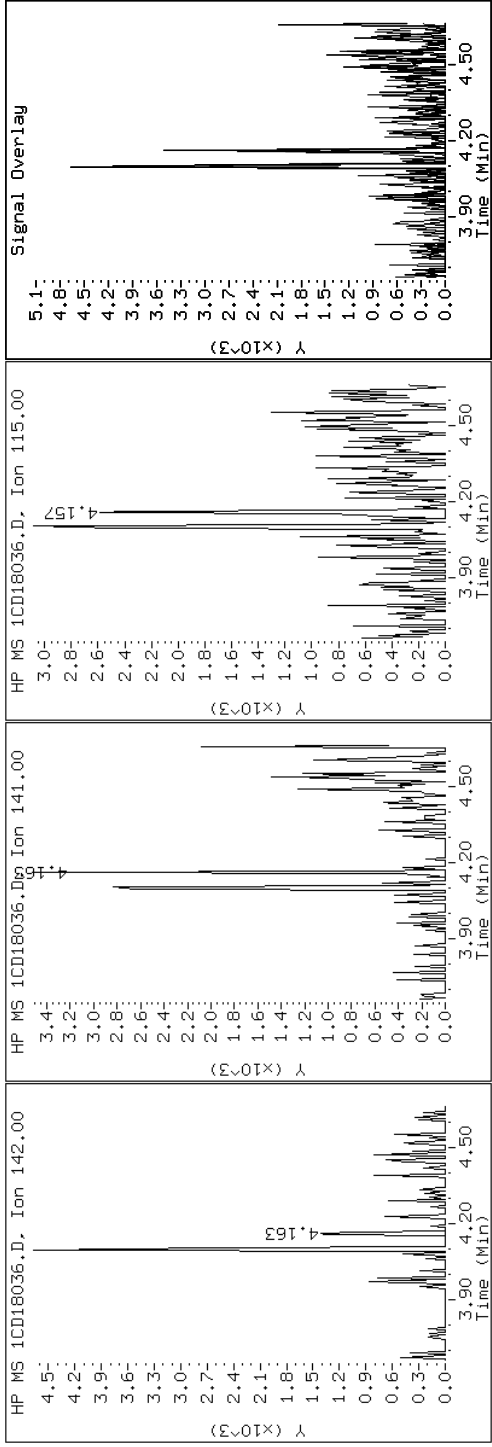
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

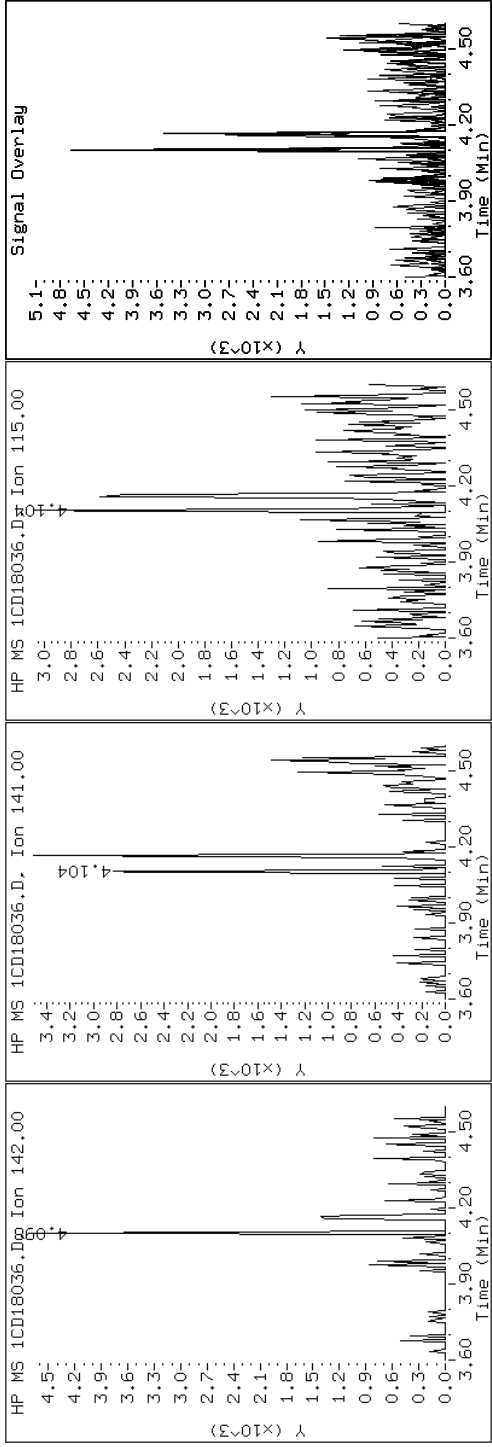
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

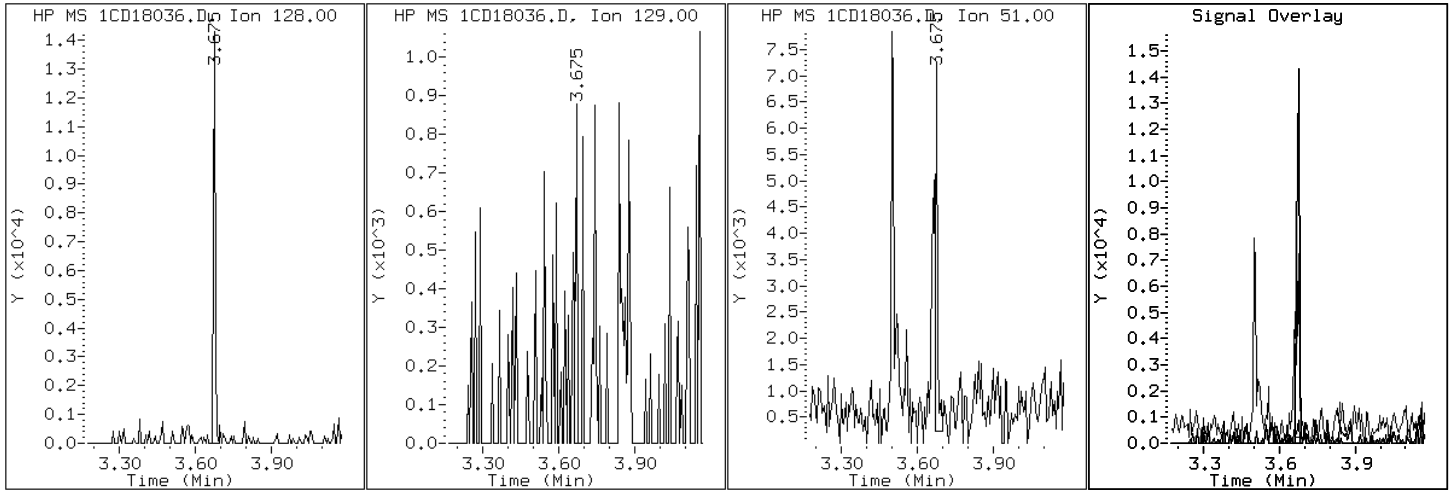
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

2 Naphthalene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

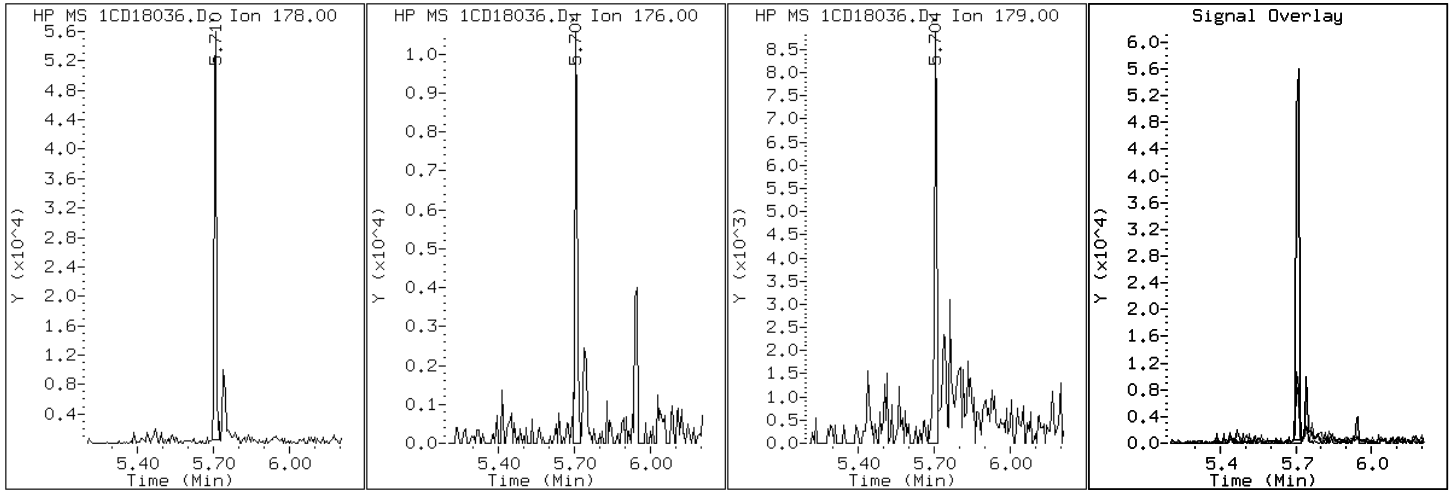
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18036.D

Date: 18-APR-2013 22:05

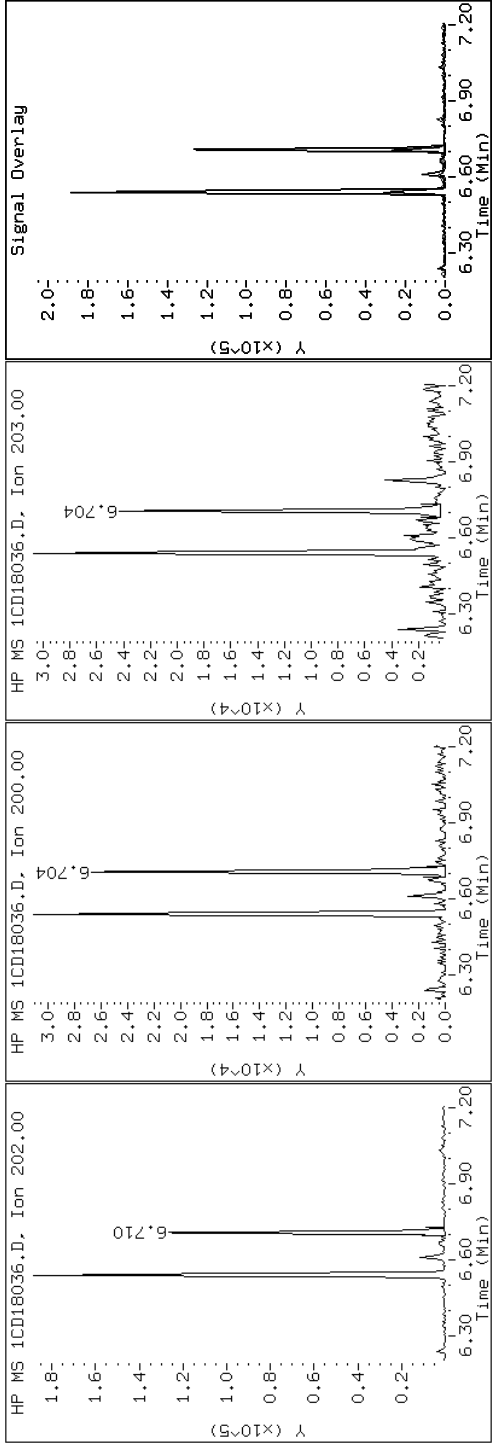
Client ID: CV1337B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-35-a

Operator: SCC

16 Pyrene

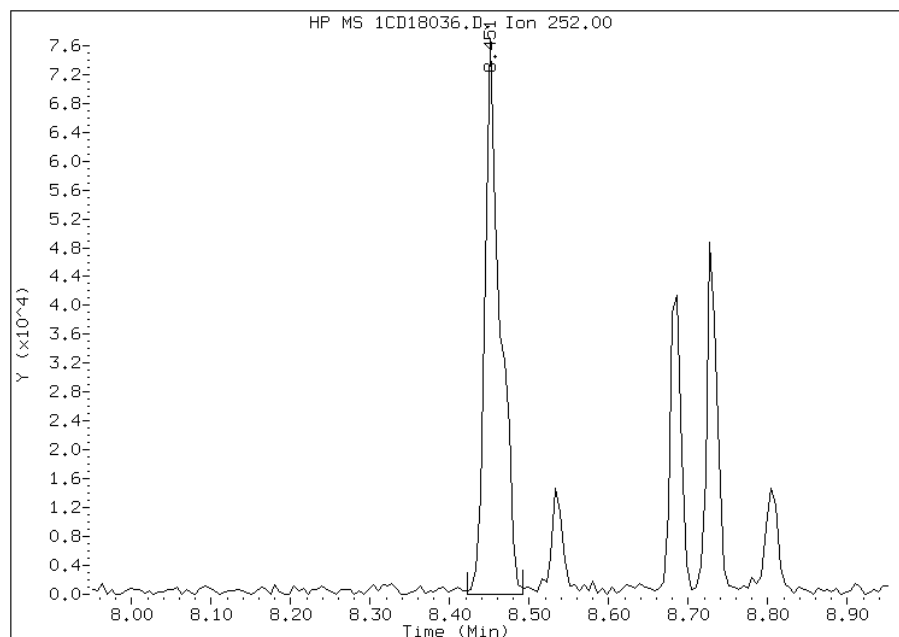


# Manual Integration Report

Data File: 1CD18036.D  
Inj. Date and Time: 18-APR-2013 22:05  
Instrument ID: BSMC5973.i  
Client ID: CV1337B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

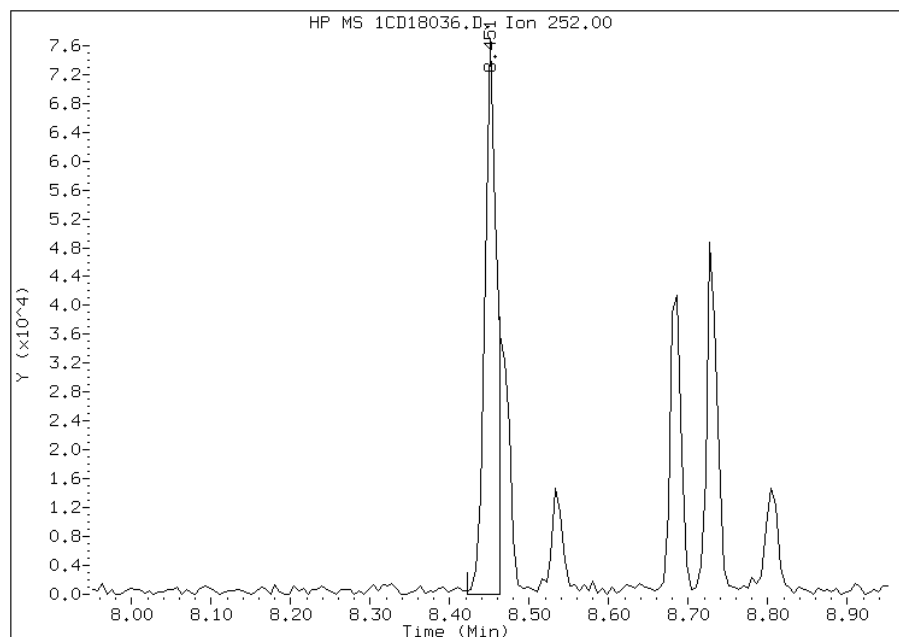
## Processing Integration Results

RT: 8.45  
Response: 103726  
Amount: 13  
Conc: 1434



## Manual Integration Results

RT: 8.45  
Response: 80688  
Amount: 10  
Conc: 1116



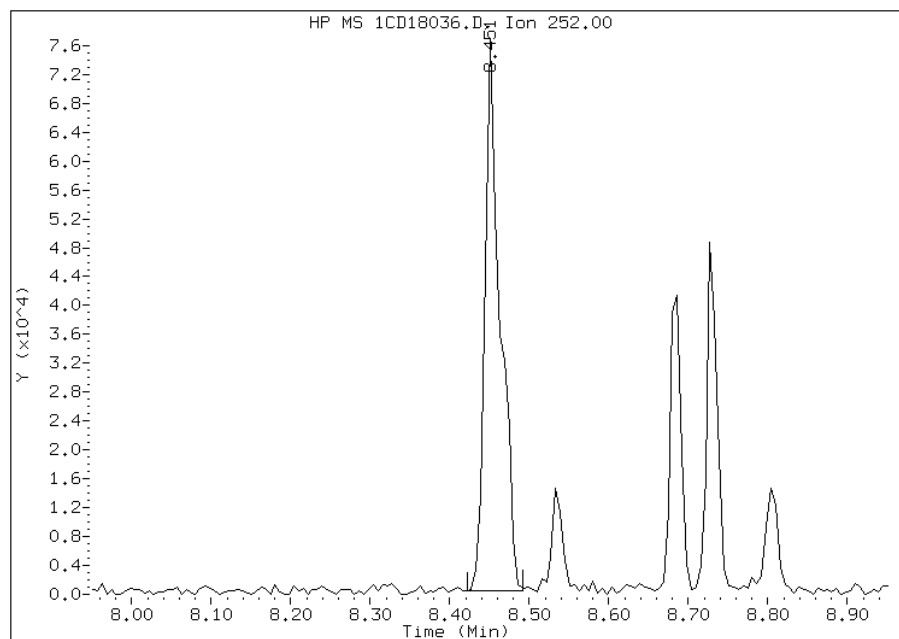
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:45  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18036.D  
Inj. Date and Time: 18-APR-2013 22:05  
Instrument ID: BSMC5973.i  
Client ID: CV1337B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

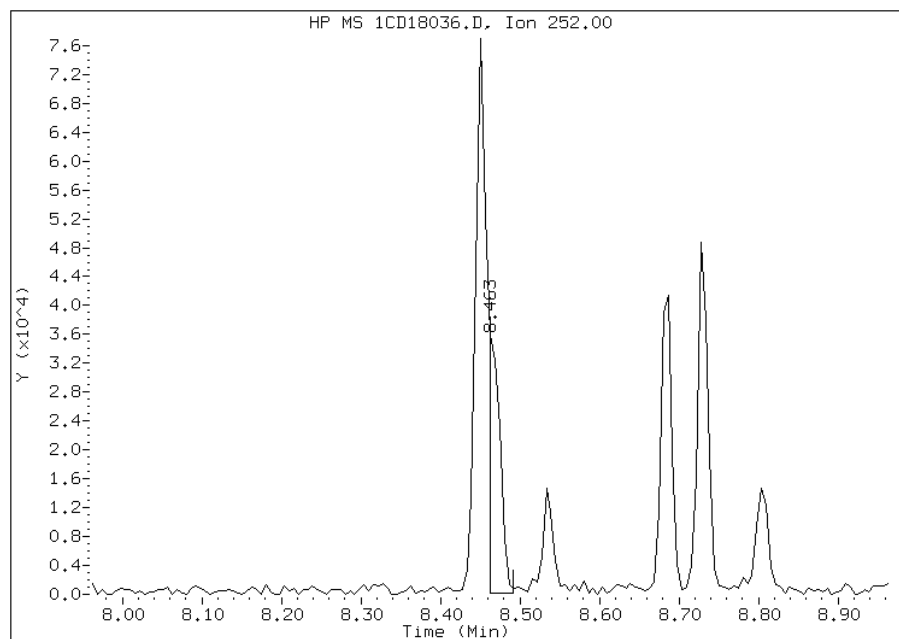
## Processing Integration Results

RT: 8.45  
Response: 101592  
Amount: 11  
Conc: 1241



## Manual Integration Results

RT: 8.46  
Response: 35211  
Amount: 4  
Conc: 430



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:45  
Manual Integration Reason: Baseline Event

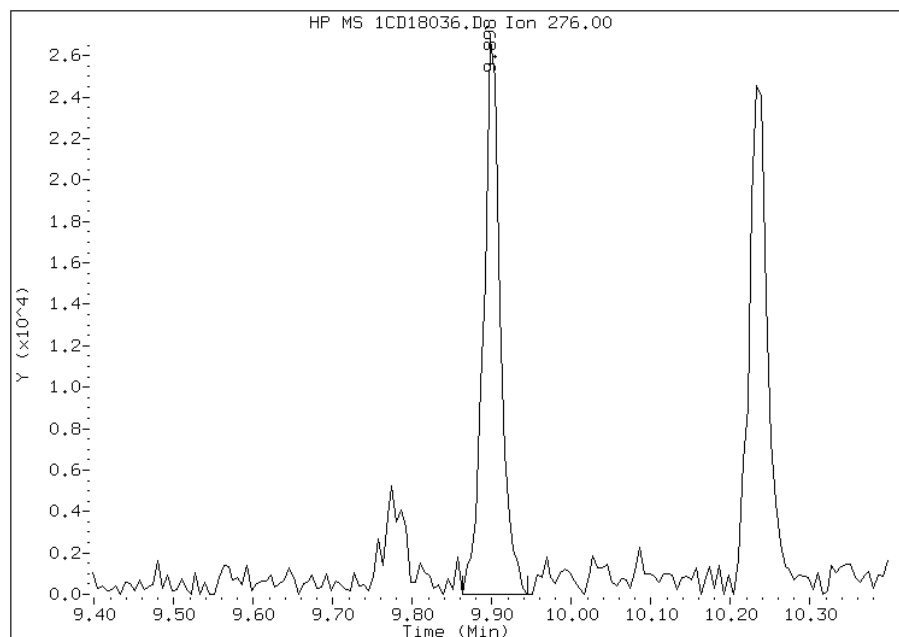


# Manual Integration Report

Data File: 1CD18036.D  
Inj. Date and Time: 18-APR-2013 22:05  
Instrument ID: BSMC5973.i  
Client ID: CV1337B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

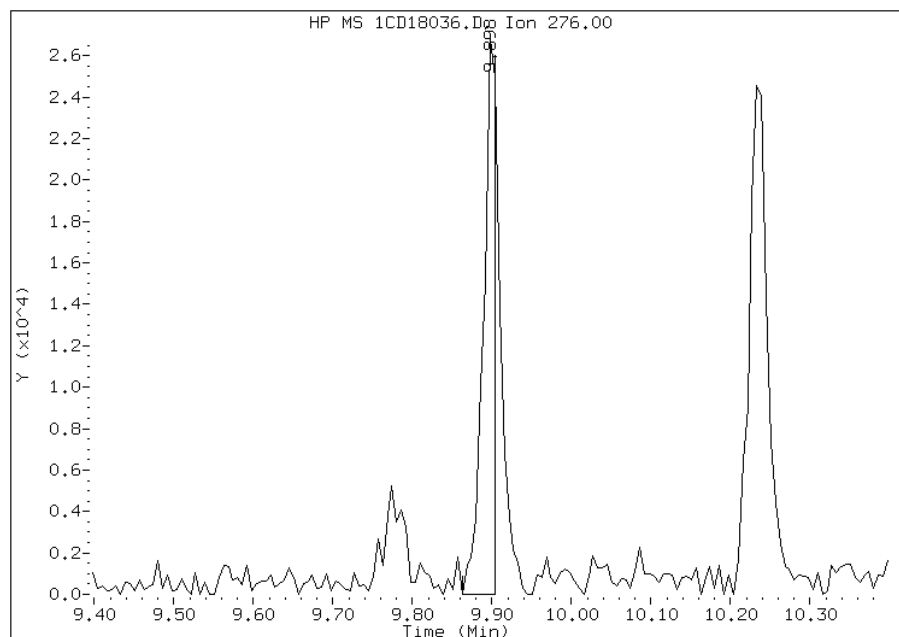
## Processing Integration Results

RT: 9.90  
Response: 39526  
Amount: 5  
Conc: 603



## Manual Integration Results

RT: 9.90  
Response: 29547  
Amount: 4  
Conc: 468



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:46  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV1338A-CS-SP Lab Sample ID: 680-89220-36  
 Matrix: Solid Lab File ID: 1CD18037.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 14:43  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.04(g) Date Analyzed: 04/18/2013 22:24  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 34.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	22	J	61	7.7
120-12-7	Anthracene	27		13	6.4
56-55-3	Benzo[a]anthracene	140		12	6.0
50-32-8	Benzo[a]pyrene	140		16	8.0
205-99-2	Benzo[b]fluoranthene	250		19	9.3
191-24-2	Benzo[g,h,i]perylene	120		31	6.7
207-08-9	Benzo[k]fluoranthene	80		12	5.5
218-01-9	Chrysene	150		14	6.9
53-70-3	Dibenz(a,h)anthracene	31	U	31	6.3
206-44-0	Fluoranthene	210		31	6.1
86-73-7	Fluorene	27	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	170		31	11
90-12-0	1-Methylnaphthalene	86		61	6.7
91-57-6	2-Methylnaphthalene	100		61	11
91-20-3	Naphthalene	70		61	6.7
85-01-8	Phenanthrene	180		12	6.0
129-00-0	Pyrene	240		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18037.D  
 Lab Smp Id: 680-89220-A-36-A Client Smp ID: CV1338A-CS-SP  
 Inj Date : 18-APR-2013 22:24  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-36-a  
 Misc Info : 680-89220-A-36-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 37  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	34.839	% 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	CONCENTRATIONS				ON-COLUMN (ug/ml)	FINAL (ug/Kg)
			MASS	RT	EXP RT	REL RT		
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	250540	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	169930	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	315338	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	33731	7.14923	729.4936
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	341495	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	327428	40.0000	
2 Naphthalene	128		3.675	3.674	(1.003)	4652	0.68690	70.0896(Q)
3 2-Methylnaphthalene	142		4.104	4.098	(1.120)	3400	1.02337	104.4223
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	3635	0.84027	85.7392
5 Acenaphthylene	152		4.663	4.663	(0.981)	1522	0.21137	21.5680
9 Fluorene	166		5.092	5.086	(1.072)	1474	0.26692	27.2364
11 Phenanthrene	178		5.710	5.704	(1.003)	16227	1.75879	179.4638
12 Anthracene	178		5.745	5.739	(1.009)	2432	0.26566	27.1073
13 Carbazole	167		5.851	5.851	(1.028)	2998	0.35162	35.8791

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.539	6.539	(1.149)	21500	2.10174	214.4573
16 Pyrene	202	6.710	6.704	(0.880)	22678	2.33429	238.1862
17 Benzo(a)anthracene	228	7.615	7.615	(0.998)	12889	1.33471	136.1909
19 Chrysene	228	7.645	7.645	(1.002)	13758	1.44018	146.9529
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	20039	2.42310	247.2482
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	7319	0.78212	79.8056
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	11524	1.34806	137.5537
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.898	(1.127)	8483	1.63825	167.1639
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	9587	1.19649	122.0874

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1CD18037.D

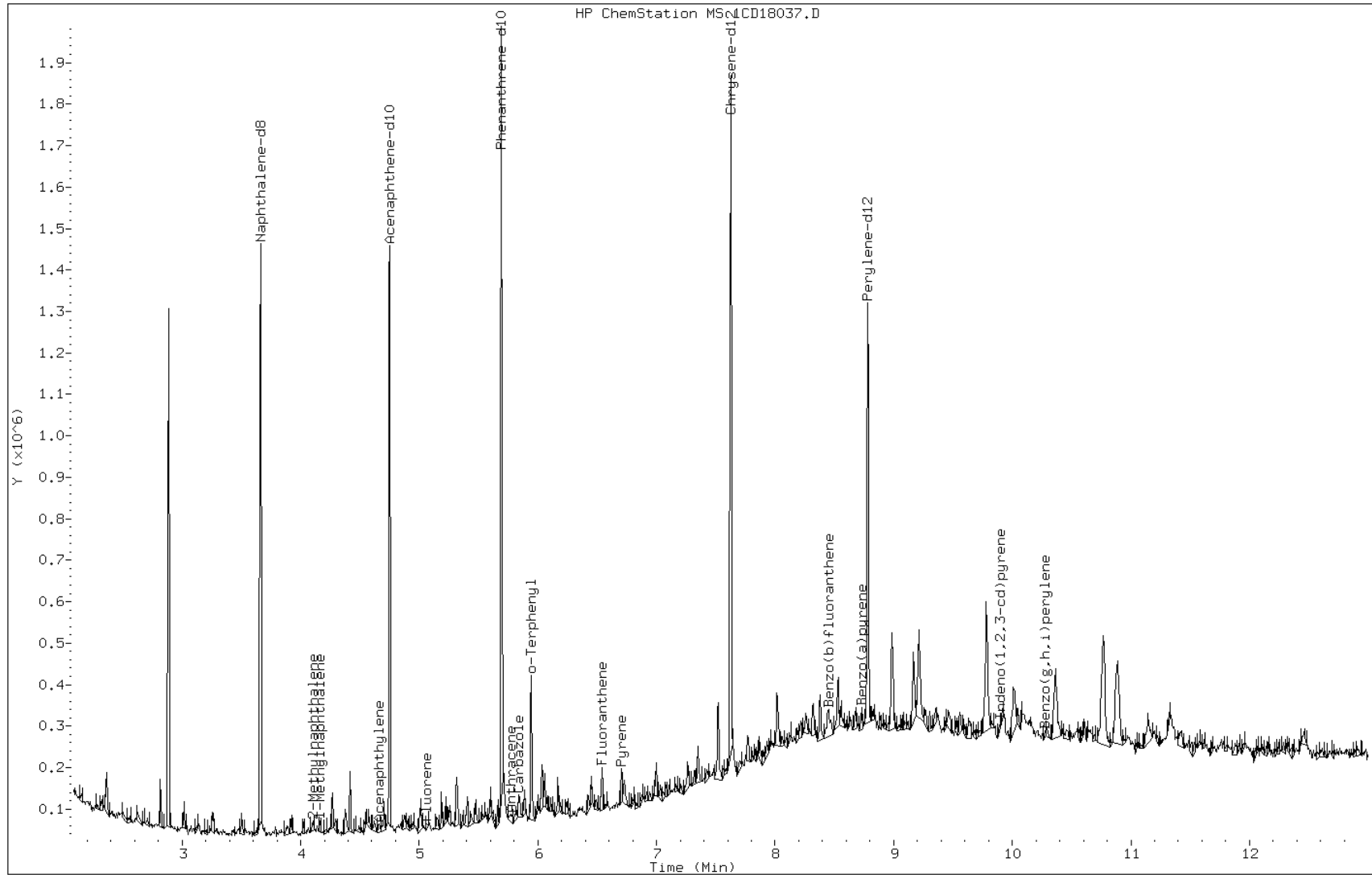
Date: 18-APR-2013 22:24

Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

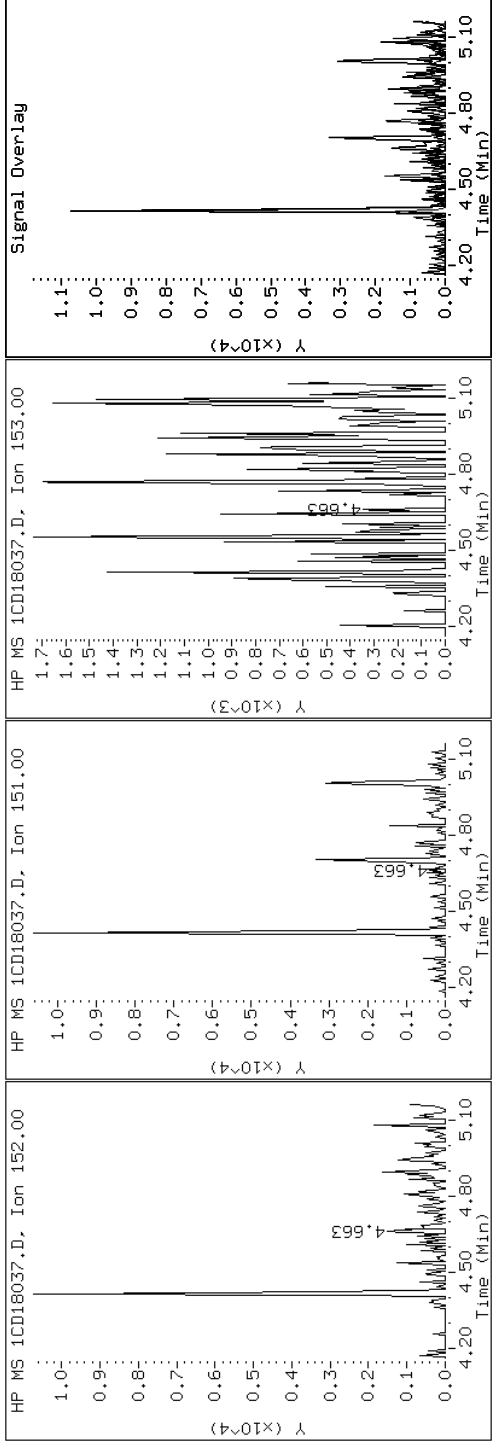
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

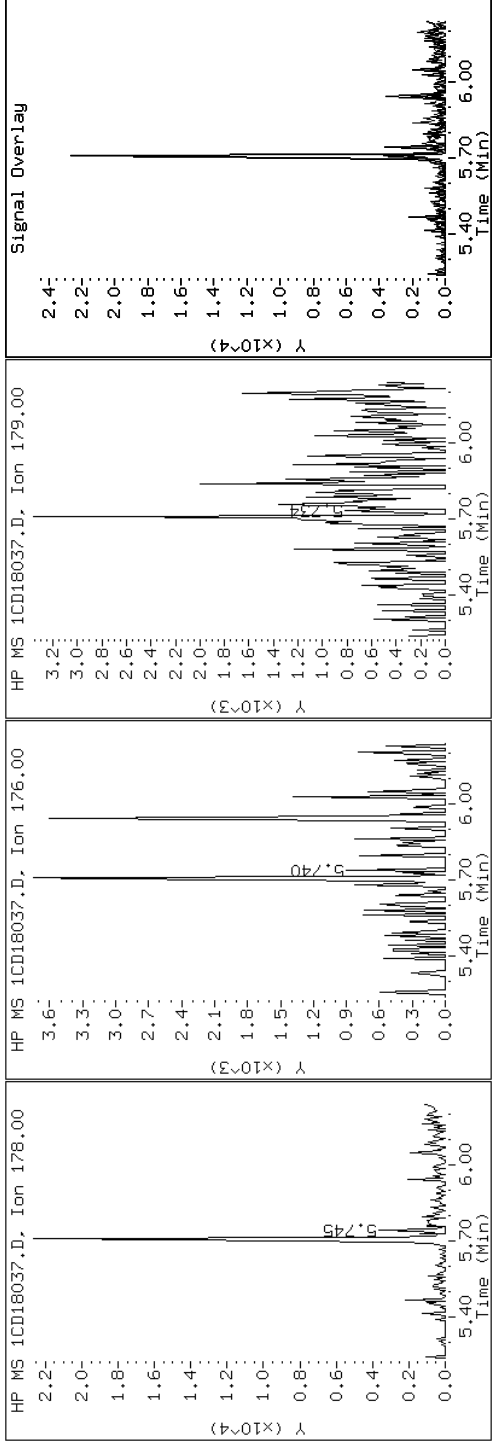
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

12 Anthracene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

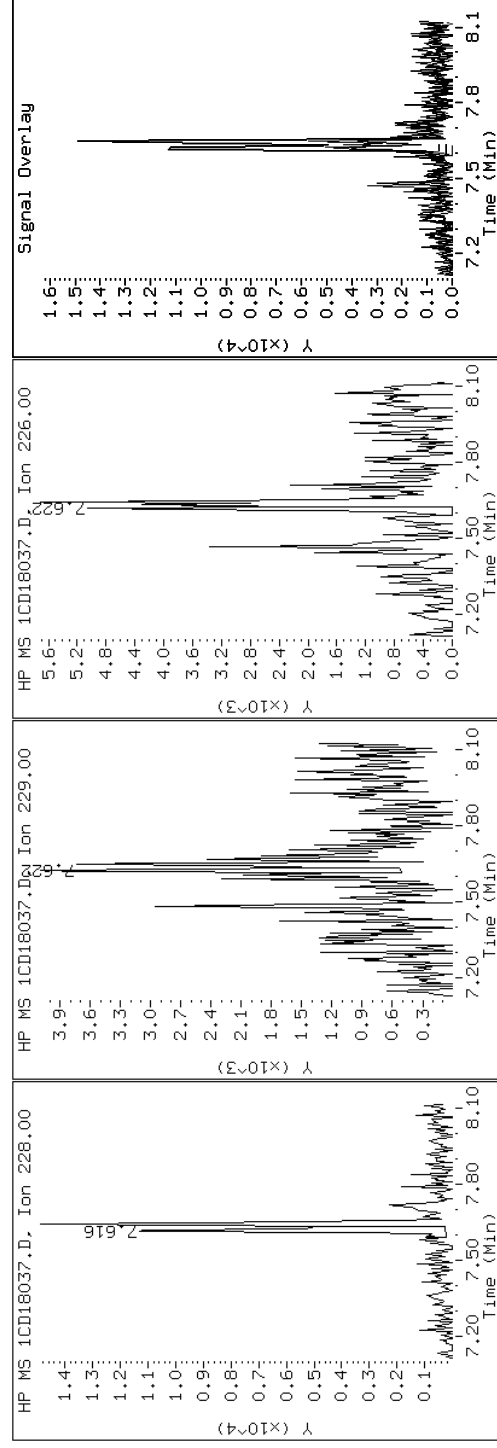
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD18037.D

Date: 18-APR-2013 22:24

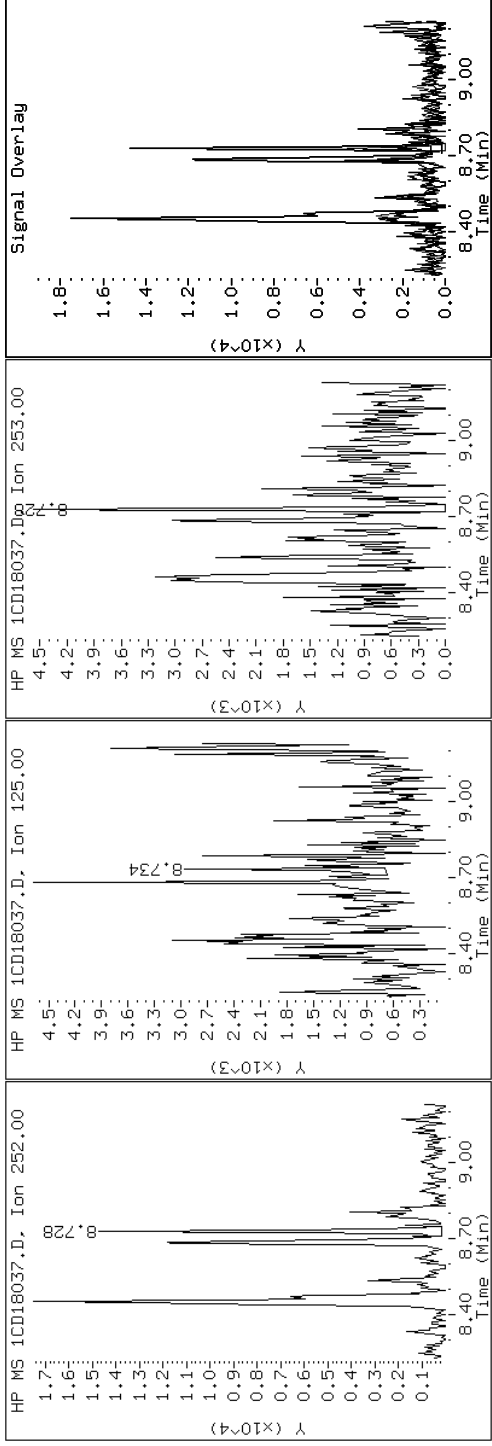
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

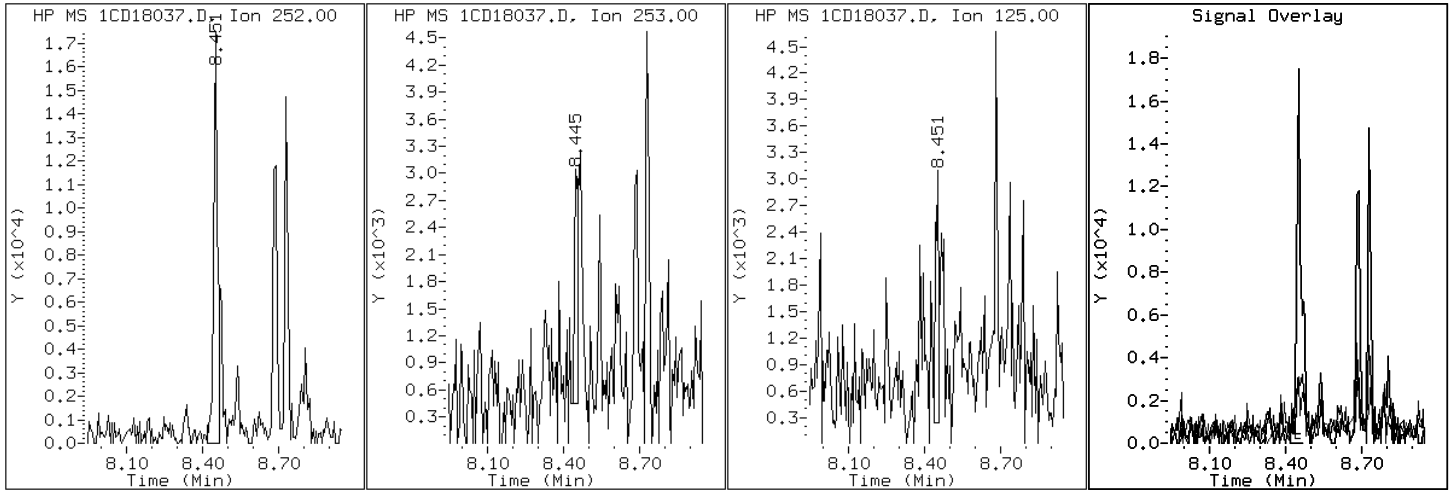
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

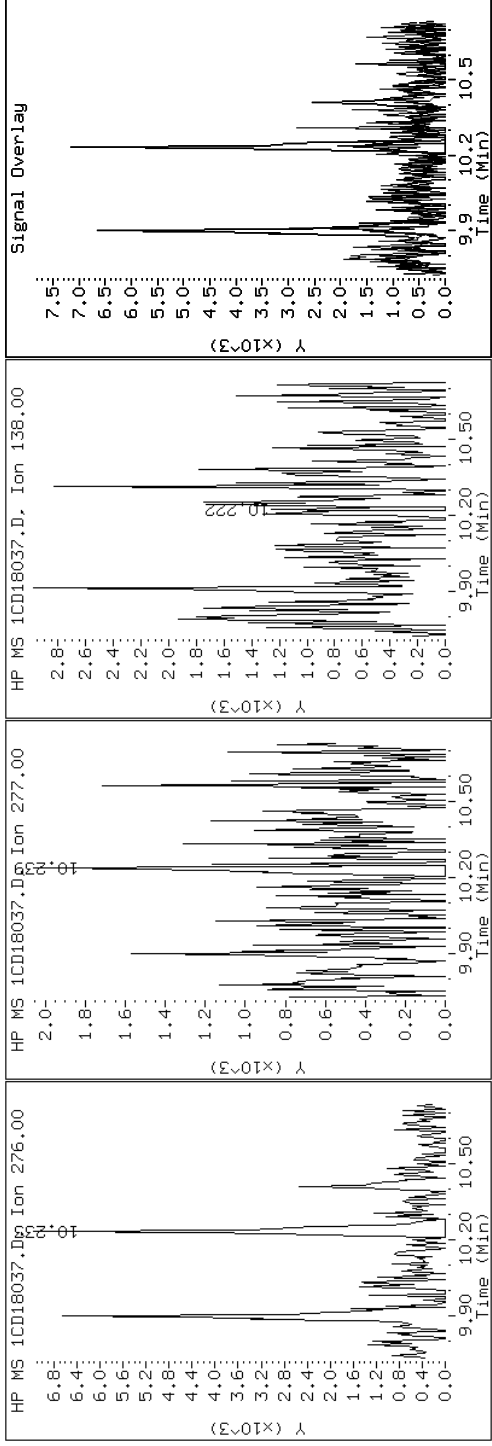
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

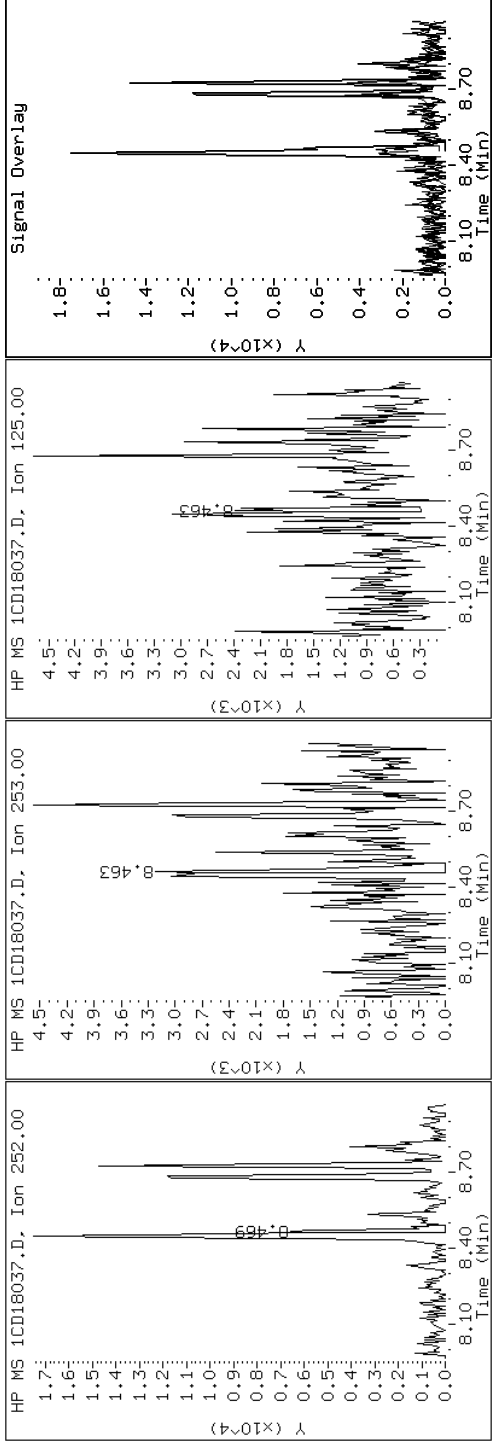
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

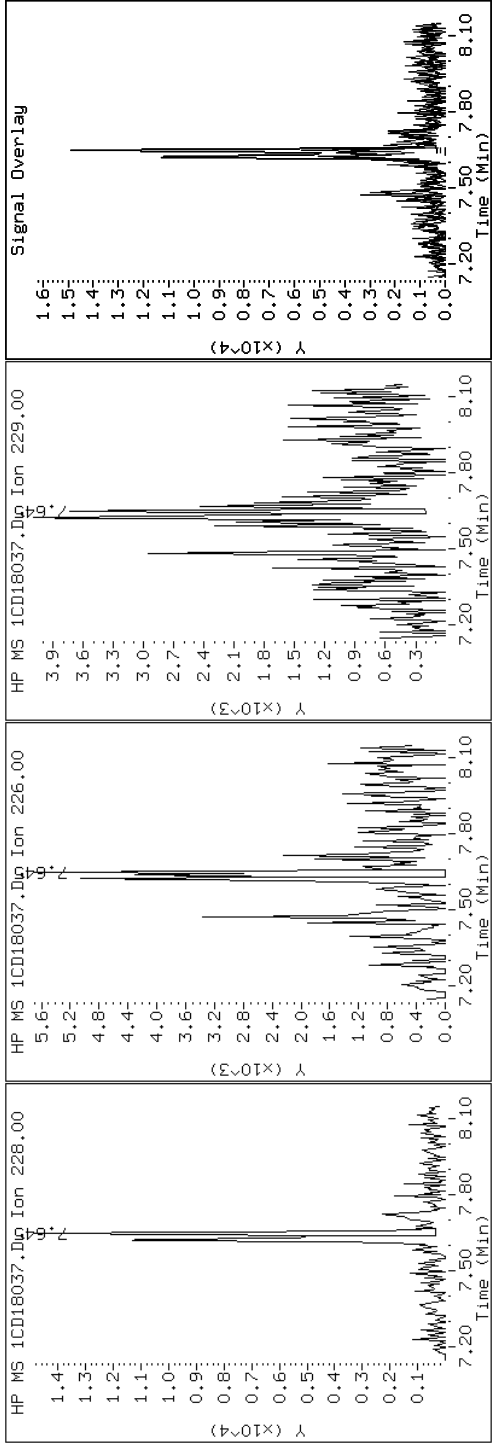
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

19 Chrysene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

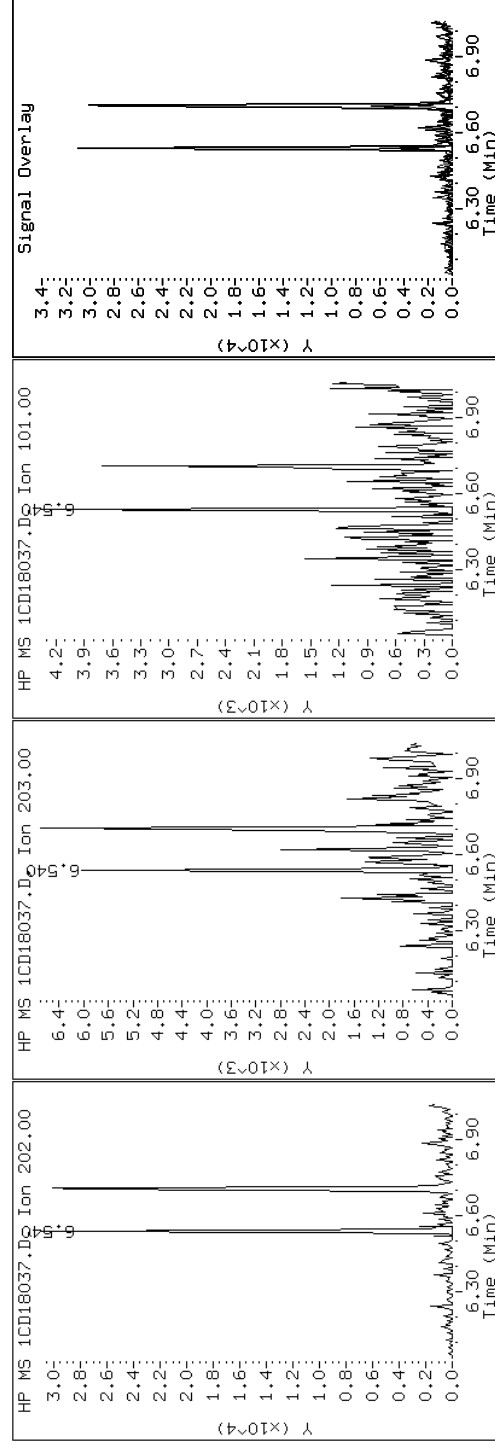
Client ID: CVI338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

### 15 Fluoranthene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

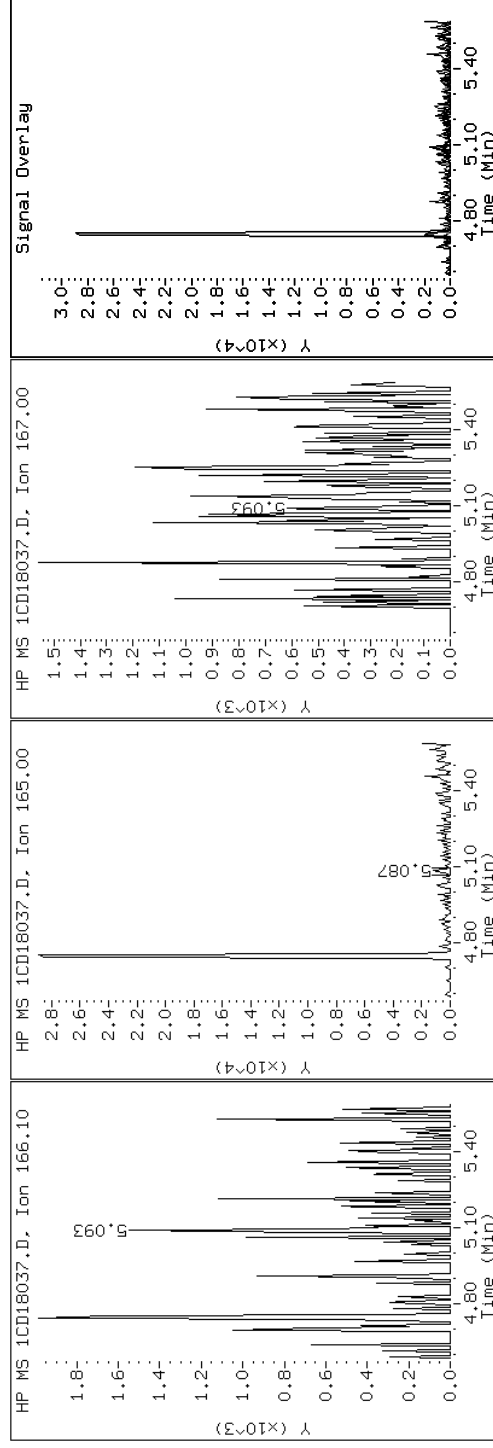
Client ID: CVI338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

9 Fluorene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

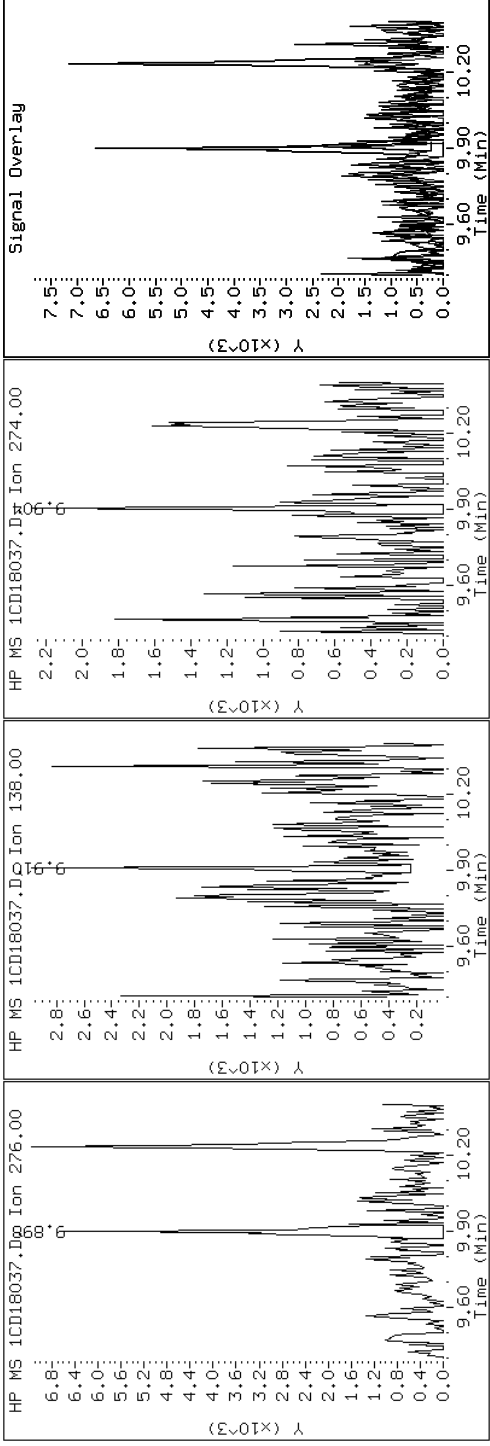
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

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





Data File: 1CD18037.D

Date: 18-APR-2013 22:24

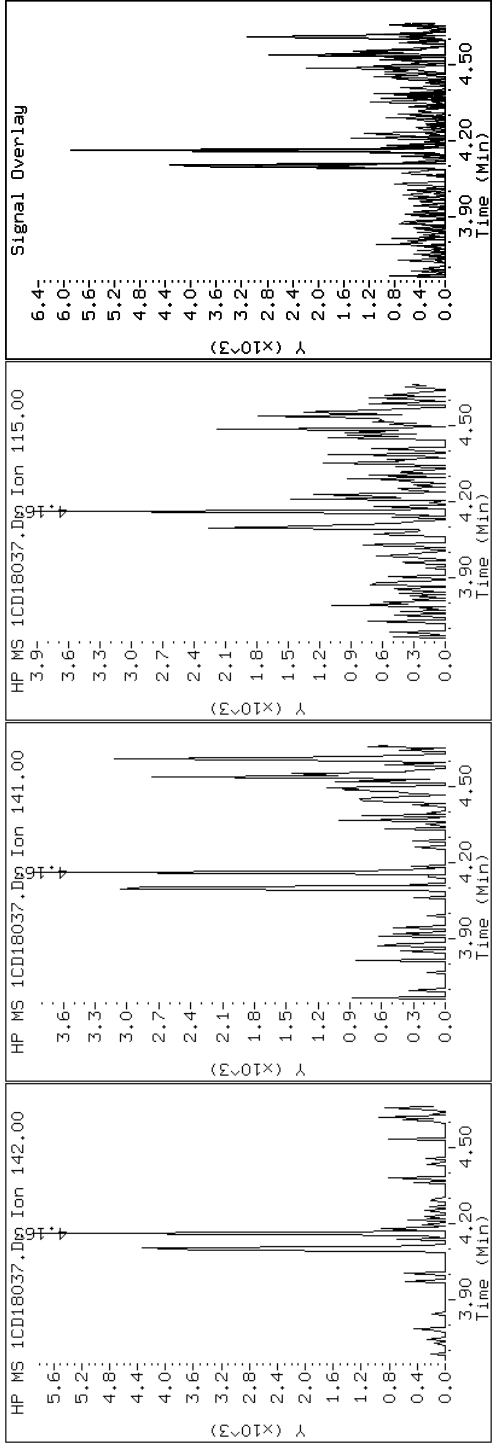
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

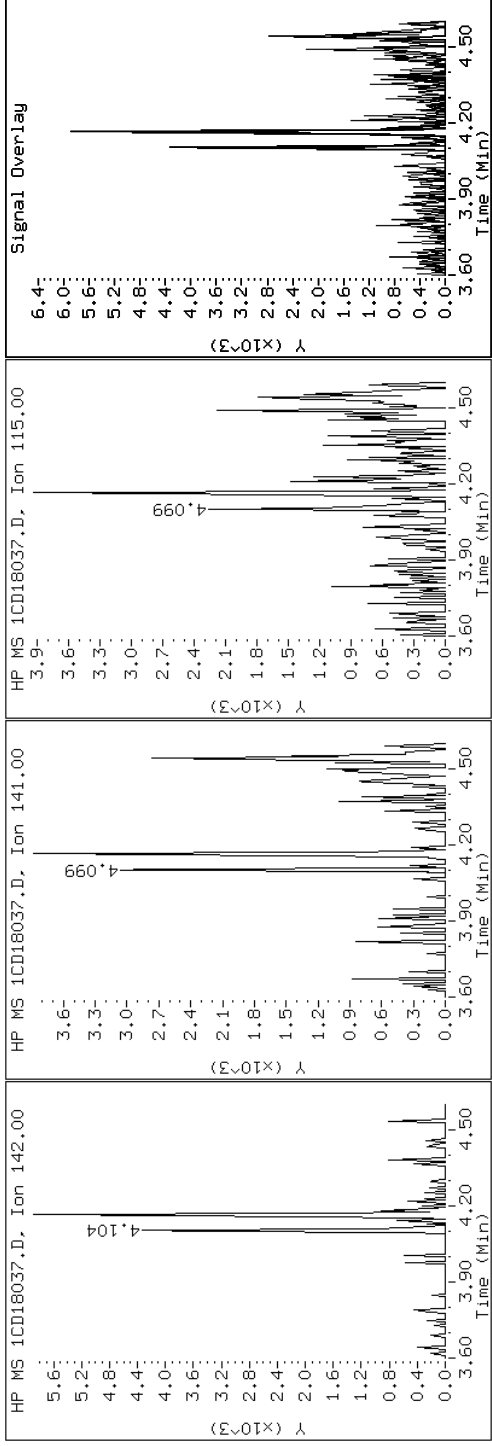
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

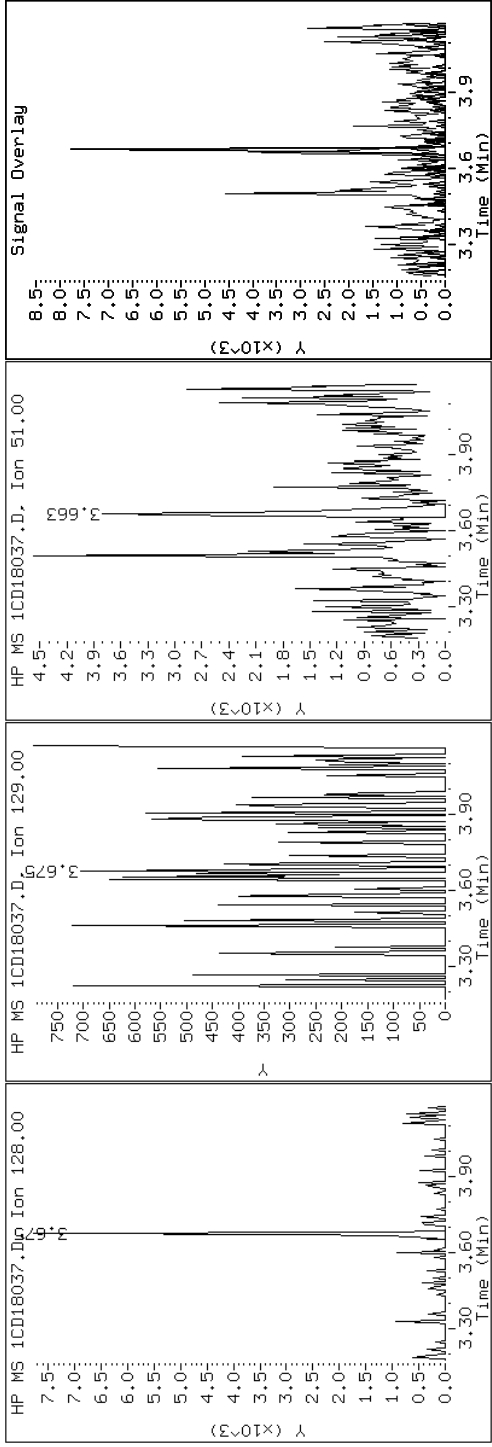
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

### 2 Naphthalene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

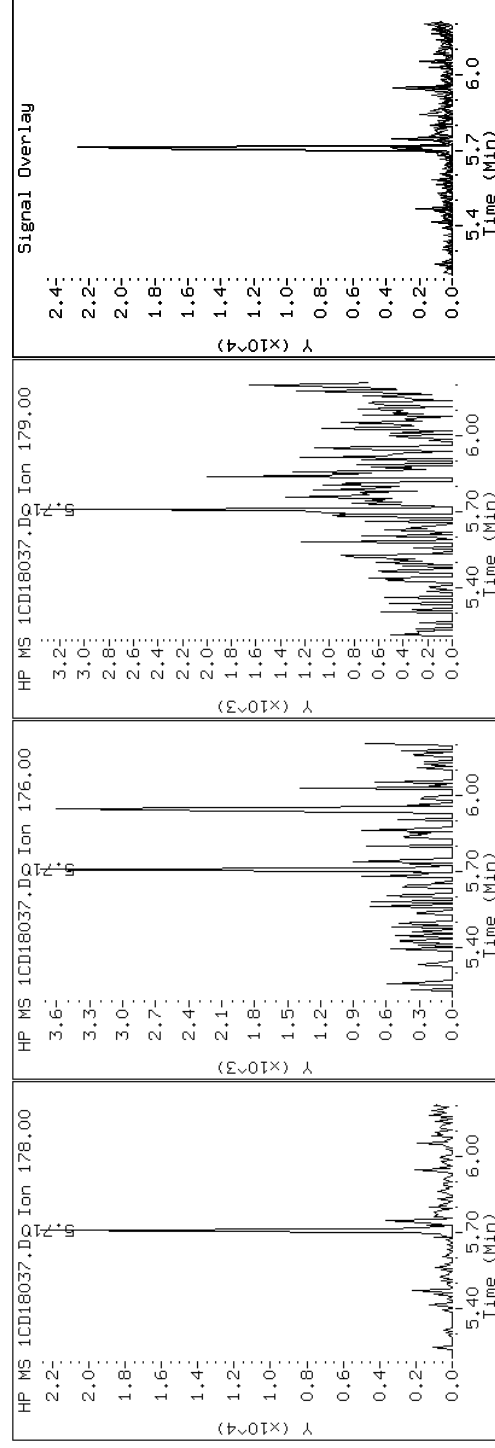
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

### 11 Phenanthrene



Data File: 1CD18037.D

Date: 18-APR-2013 22:24

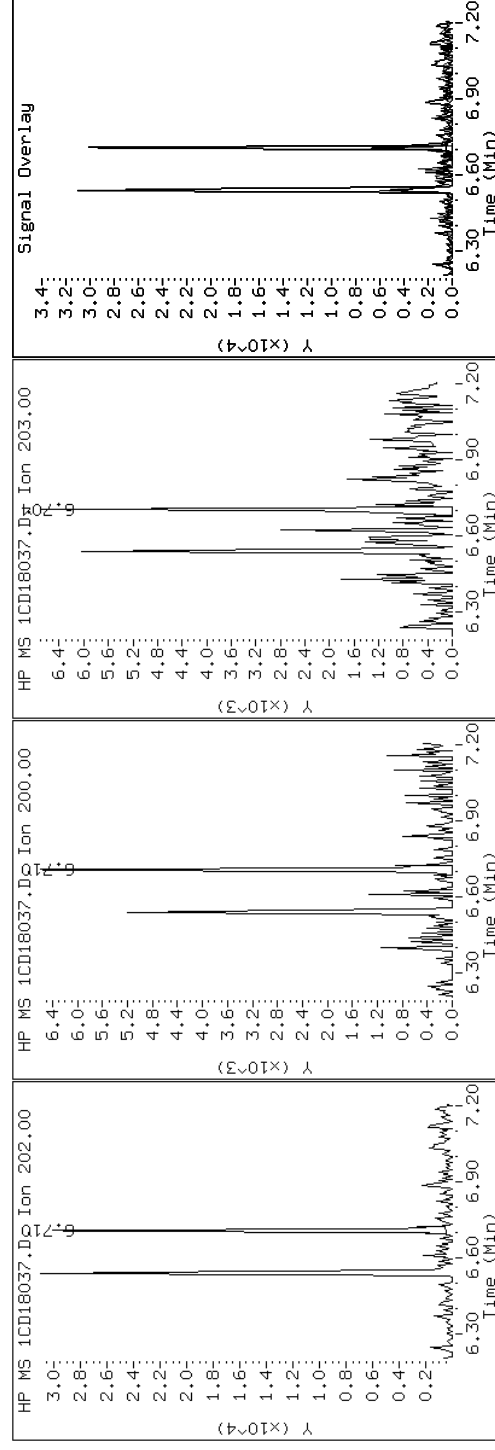
Client ID: CV1338A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-36-a

Operator: SCC

16 Pyrene



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: CV1338B-CS-SP Lab Sample ID: 680-89220-37  
 Matrix: Solid Lab File ID: 1CD18038.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 14:52  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.39(g) Date Analyzed: 04/18/2013 22:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 32.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	15	J	58	7.2
120-12-7	Anthracene	21		12	6.1
56-55-3	Benzo[a]anthracene	98		12	5.6
50-32-8	Benzo[a]pyrene	68		15	7.5
205-99-2	Benzo[b]fluoranthene	80		18	8.8
191-24-2	Benzo[g,h,i]perylene	66		29	6.3
207-08-9	Benzo[k]fluoranthene	66		12	5.2
218-01-9	Chrysene	69		13	6.5
53-70-3	Dibenz(a,h)anthracene	29	U	29	5.9
206-44-0	Fluoranthene	90		29	5.8
86-73-7	Fluorene	11	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	100		29	10
90-12-0	1-Methylnaphthalene	60		58	6.3
91-57-6	2-Methylnaphthalene	81		58	10
91-20-3	Naphthalene	66		58	6.3
85-01-8	Phenanthrene	99		12	5.6
129-00-0	Pyrene	110		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18038.D  
 Lab Smp Id: 680-89220-A-37-A Client Smp ID: CV1338B-CS-SP  
 Inj Date : 18-APR-2013 22:42  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-37-a  
 Misc Info : 680-89220-A-37-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 38  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	32.374	% 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		3.663	3.663	(1.000)	257082	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	179923	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	313040	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	31625	6.79038	652.4427	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	323638	40.0000		
* 23 Perylene-d12	264		8.780	8.780	(1.000)	321518	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	4754	0.68409	65.7301(Q)	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	2650	0.84289	80.9880	
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	2770	0.62402	59.9578	
5 Acenaphthylene	152		4.663	4.663	(0.981)	1202	0.15766	15.1484	
9 Fluorene	166		5.086	5.086	(1.071)	661	0.11305	10.8623	
11 Phenanthrene	178		5.710	5.704	(1.003)	9430	1.03272	99.2275	
12 Anthracene	178		5.745	5.739	(1.009)	2031	0.22348	21.4731	
13 Carbazole	167		5.851	5.851	(1.028)	2020	0.23866	22.9310	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.539	6.539	(1.149)	9477	0.93323	89.6676
16 Pyrene	202	6.704	6.704	(0.879)	10387	1.12814	108.3958
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	9329	1.01936	97.9432
19 Chrysene	228	7.645	7.645	(1.002)	6522	0.72039	69.2172
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	6744	0.83047	79.7941
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	6297	0.68527	65.8433
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	5928	0.70620	67.8537
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.898	(1.127)	3548	1.06486	102.3149
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.166)	5392	0.68531	65.8468

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: 1CD18038.D

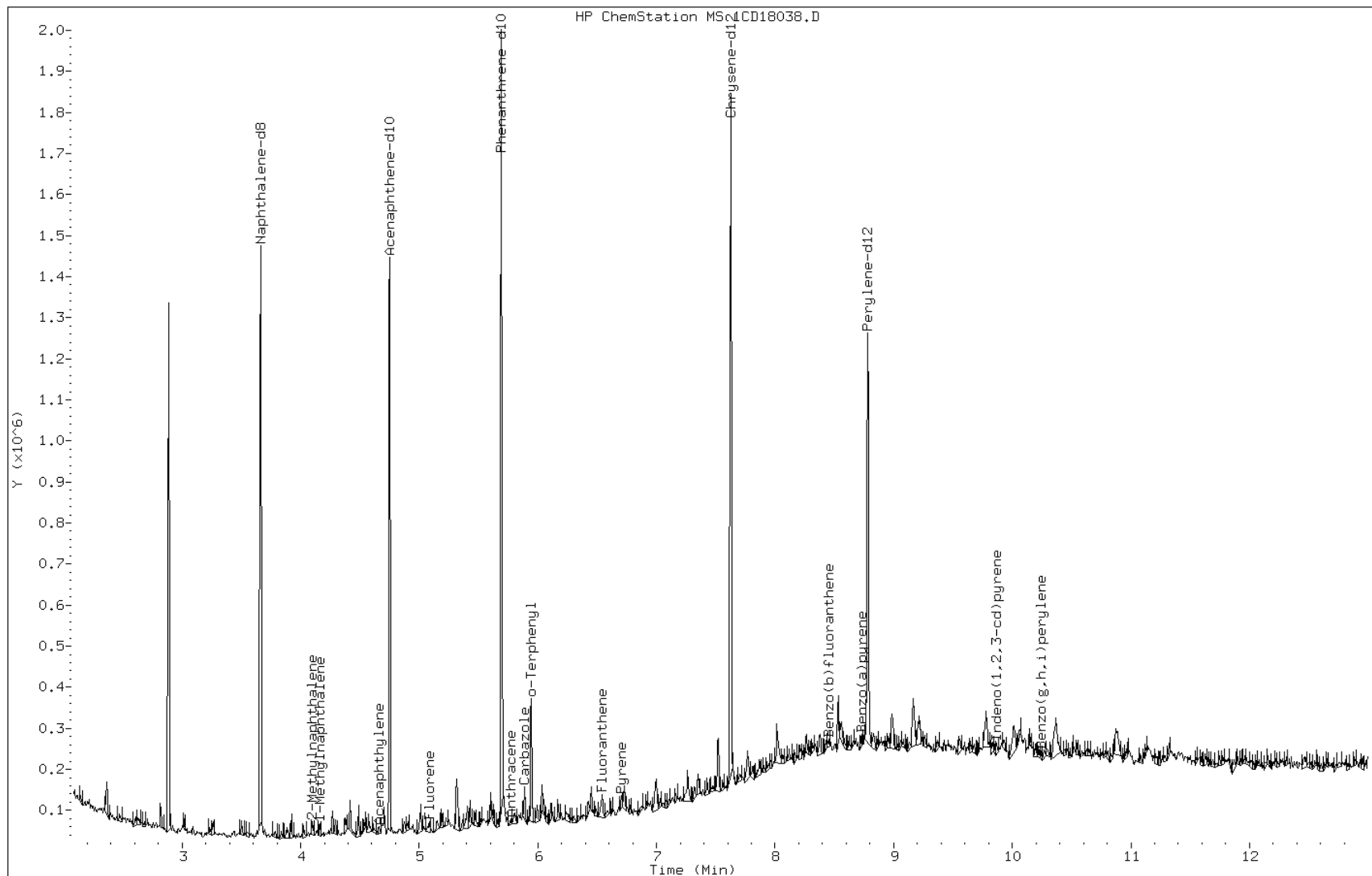
Date: 18-APR-2013 22:42

Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

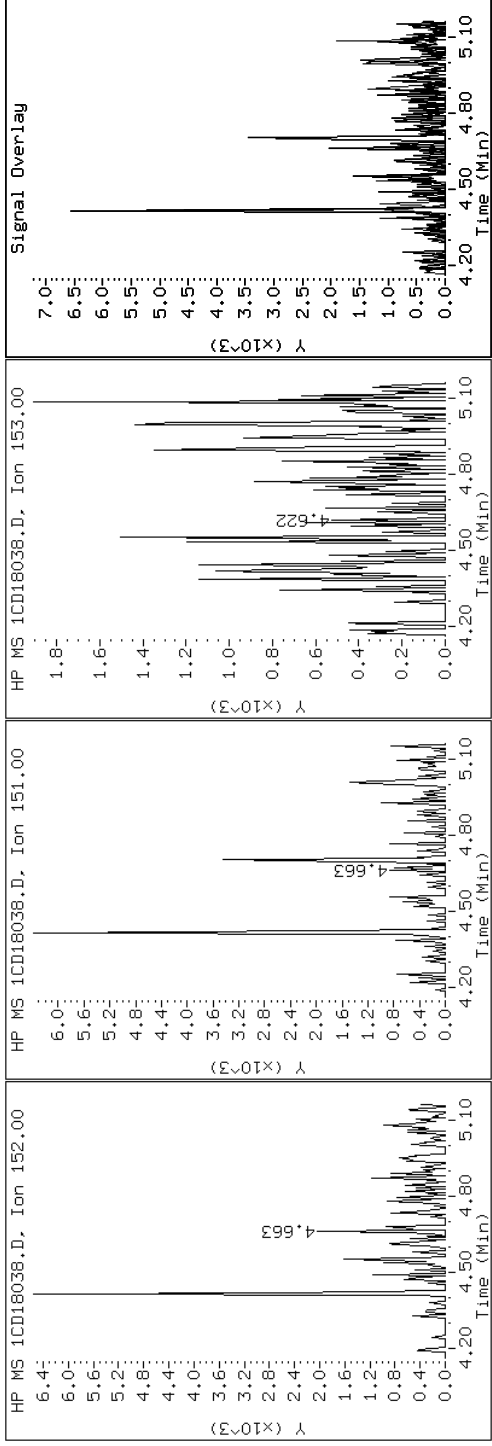
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

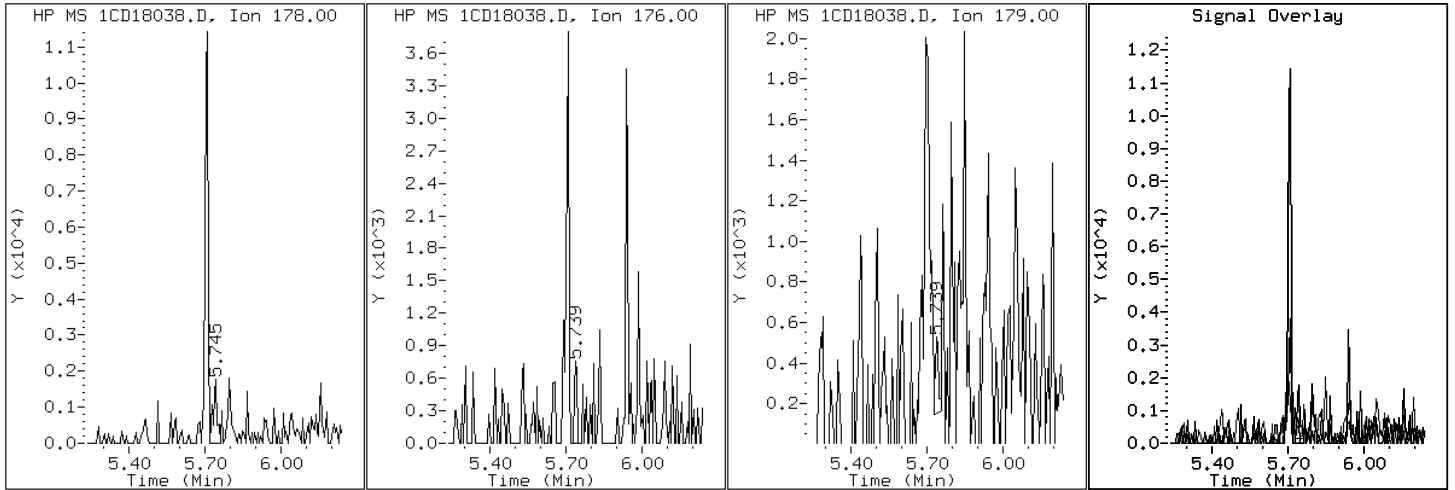
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

12 Anthracene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

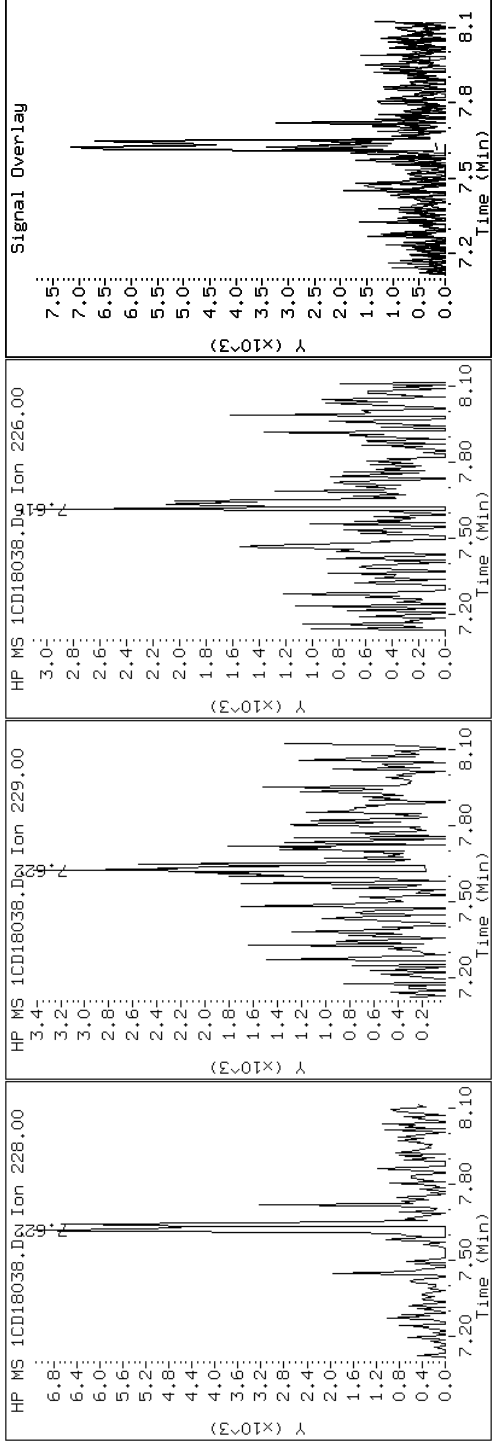
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

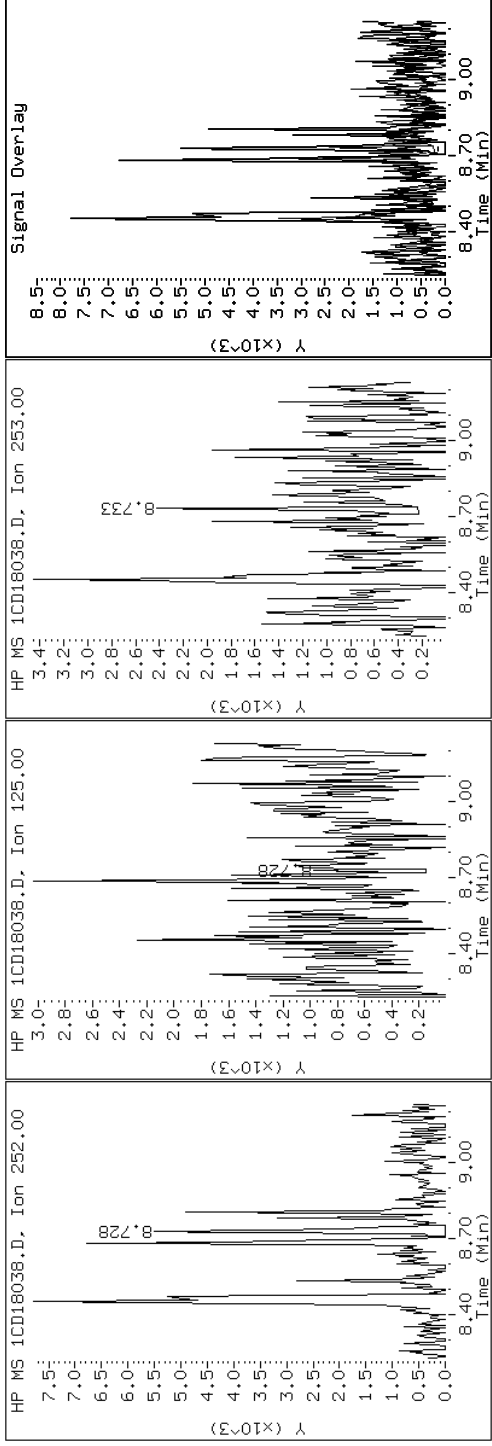
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

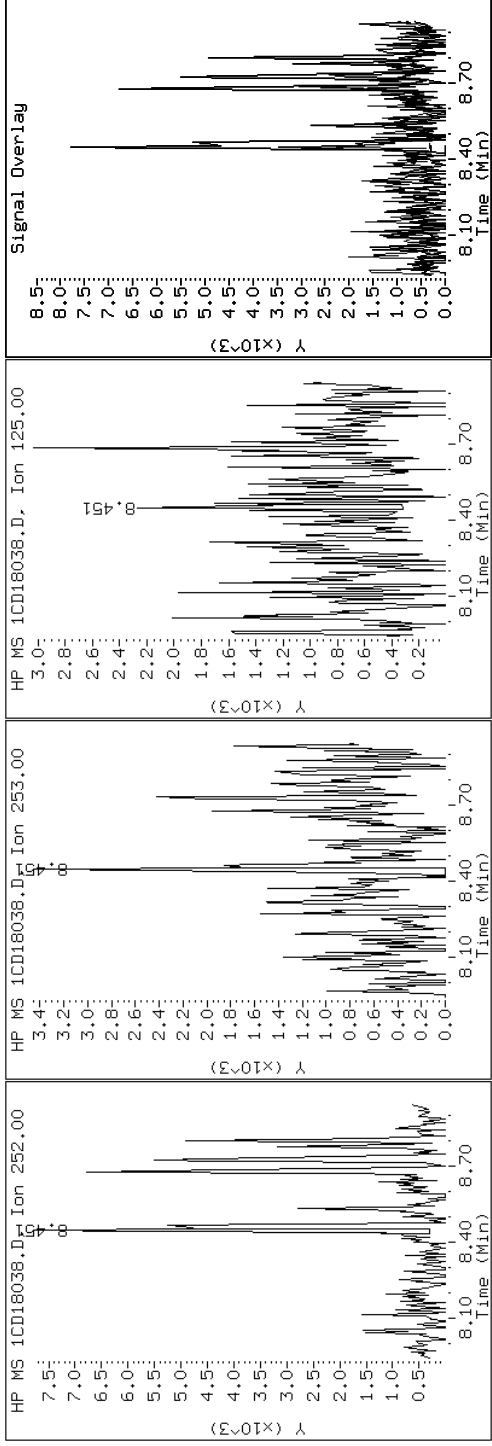
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

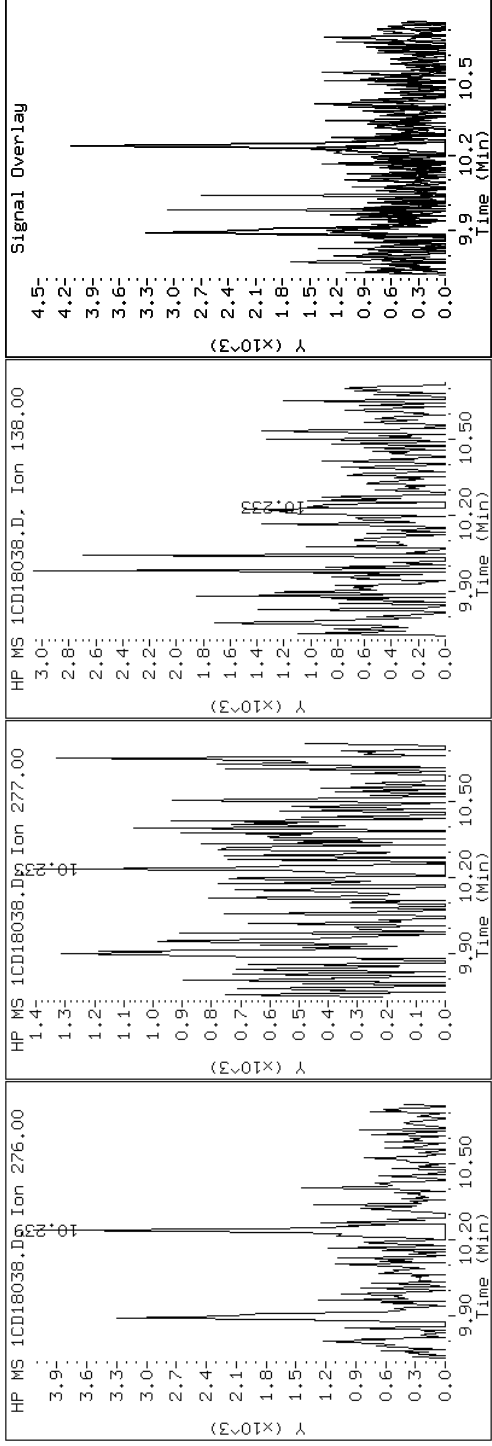
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

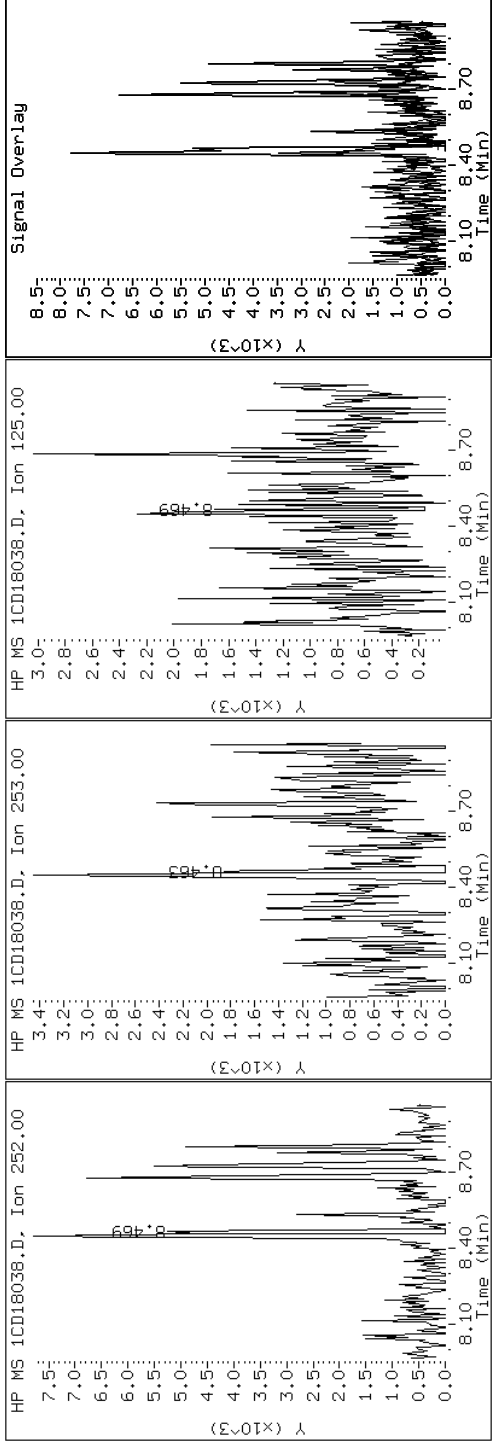
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CD18038.D

Date: 18-APR-2013 22:42

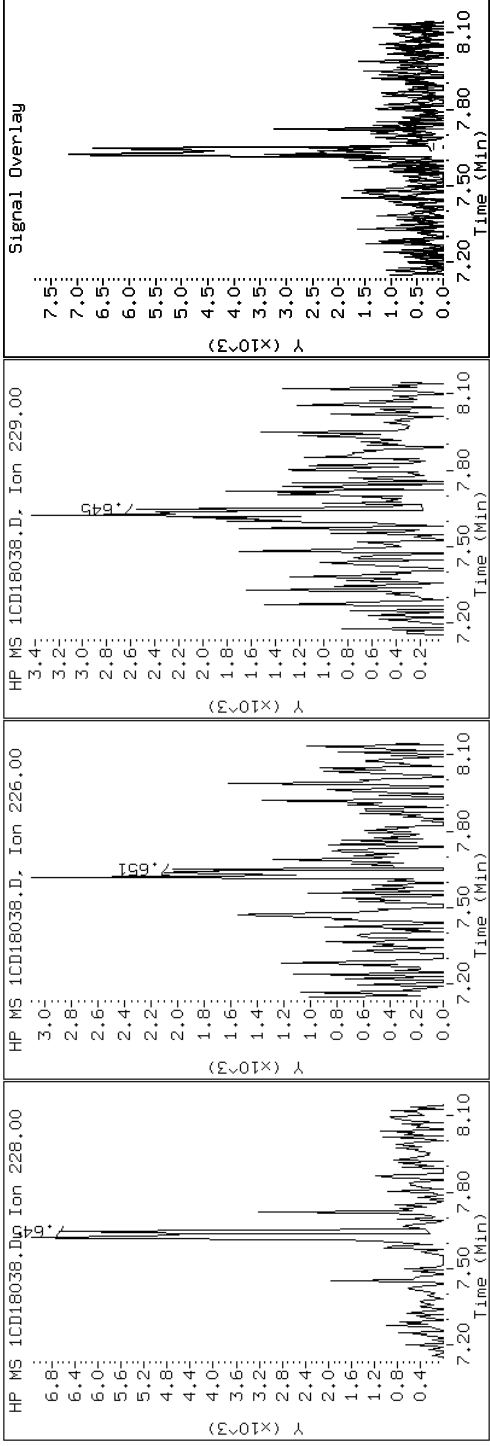
Client ID: CVI338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

19 Chrysene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

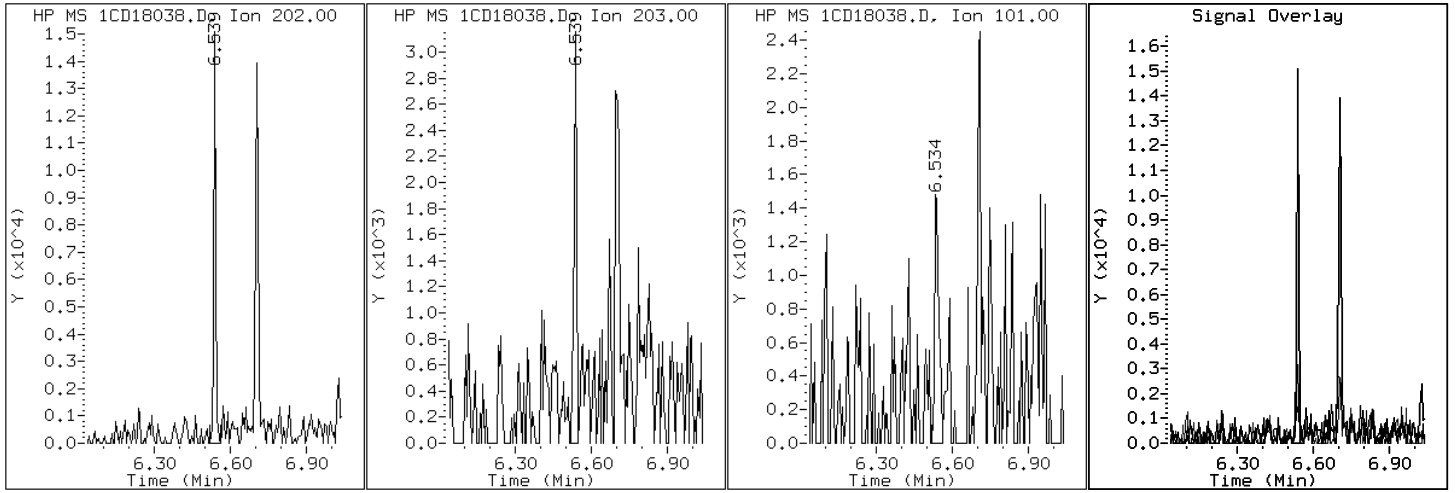
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

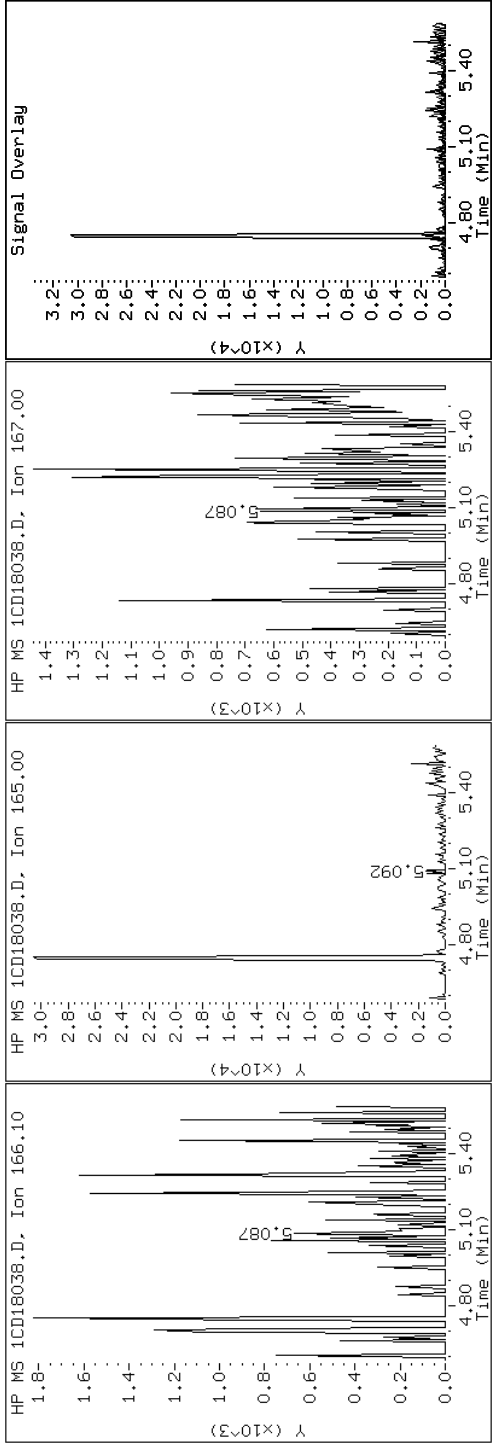
Client ID: CVI338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

9 Fluorene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

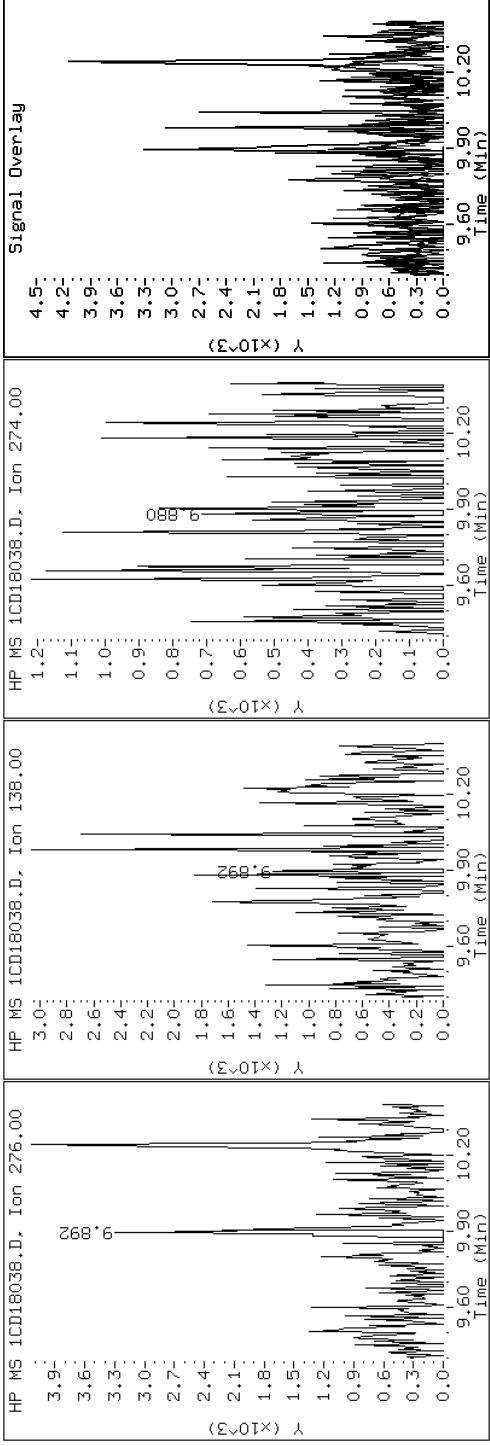
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

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



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

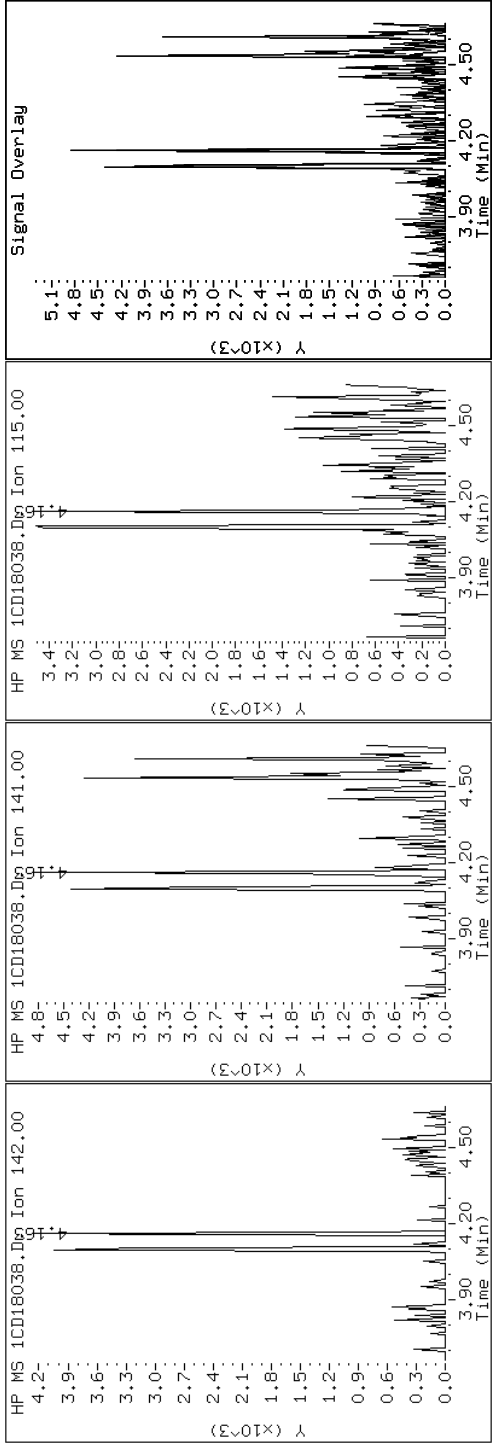
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

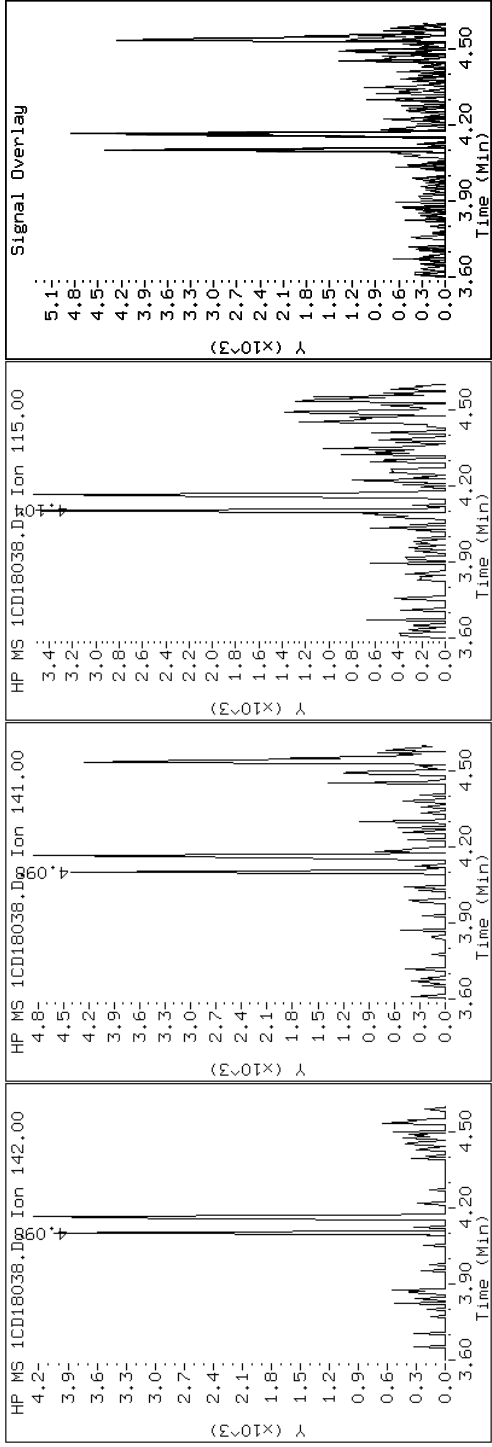
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

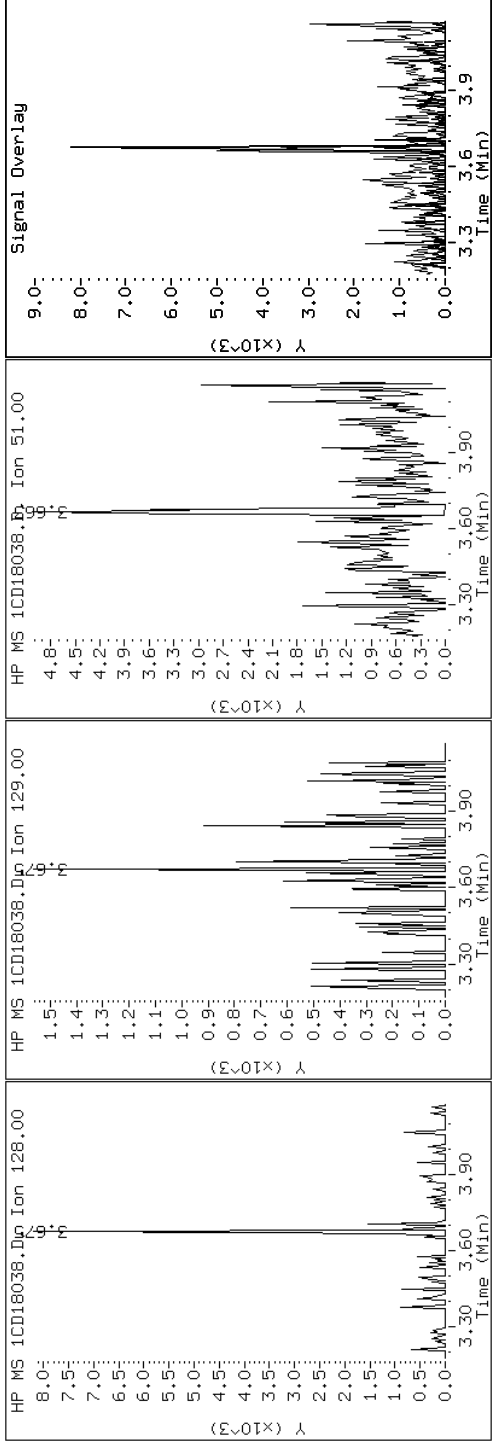
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

2 Naphthalene



Data File: 1CD18038.D

Date: 18-APR-2013 22:42

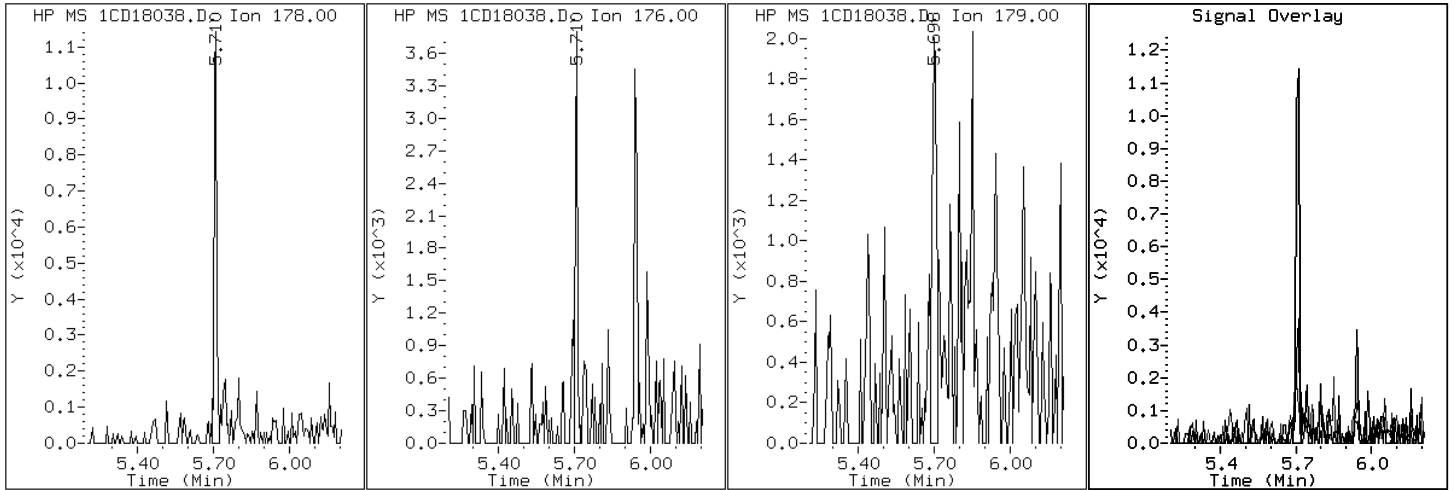
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

11 Phenanthrene





Data File: 1CD18038.D

Date: 18-APR-2013 22:42

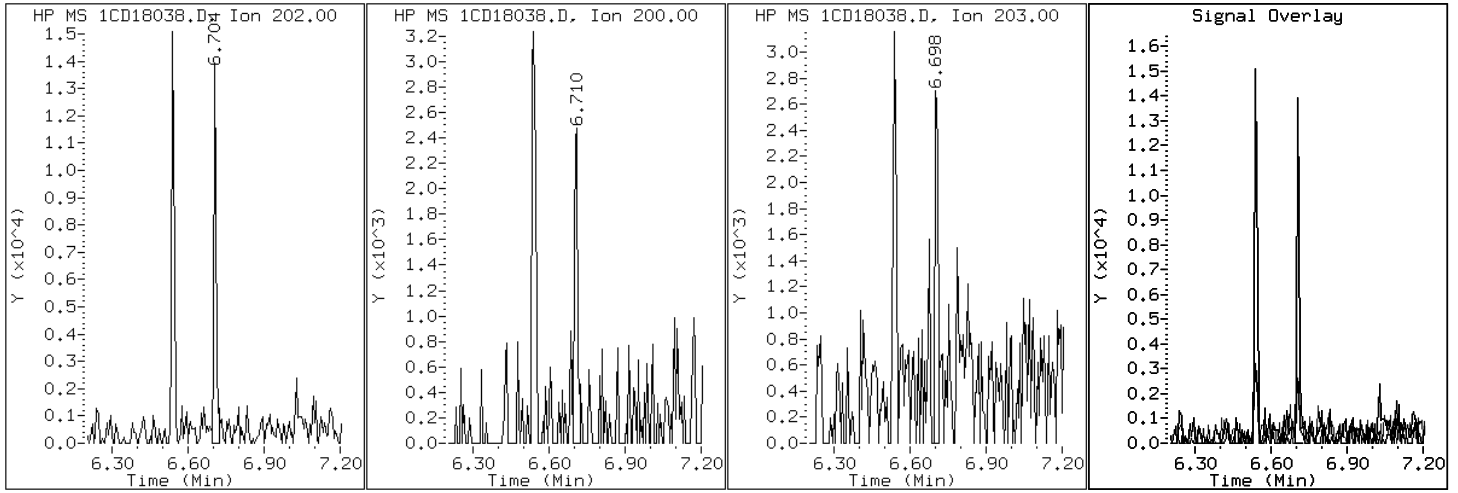
Client ID: CV1338B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-37-a

Operator: SCC

16 Pyrene



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: HP0140A-CS-SP Lab Sample ID: 680-89220-38  
 Matrix: Solid Lab File ID: 1CD18039.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 10:11  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.08(g) Date Analyzed: 04/18/2013 23:00  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	29	J	59	7.4
120-12-7	Anthracene	20		12	6.2
56-55-3	Benzo[a]anthracene	57		12	5.8
50-32-8	Benzo[a]pyrene	67		15	7.7
205-99-2	Benzo[b]fluoranthene	110		18	9.1
191-24-2	Benzo[g,h,i]perylene	84		30	6.5
207-08-9	Benzo[k]fluoranthene	76		12	5.3
218-01-9	Chrysene	140		13	6.7
53-70-3	Dibenz(a,h)anthracene	30	U	30	6.1
206-44-0	Fluoranthene	100		30	5.9
86-73-7	Fluorene	42		30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	110		30	11
90-12-0	1-Methylnaphthalene	150		59	6.5
91-57-6	2-Methylnaphthalene	130		59	11
91-20-3	Naphthalene	94		59	6.5
85-01-8	Phenanthrene	200		12	5.8
129-00-0	Pyrene	110		30	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18039.D  
 Lab Smp Id: 680-89220-A-38-A Client Smp ID: HP0140A-CS-SP  
 Inj Date : 18-APR-2013 23:00  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-38-a  
 Misc Info : 680-89220-A-38-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 39  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	33.021	% 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		3.663	3.663	(1.000)	246551	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	186467	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	318905	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	35926	7.49262	741.8126	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	328764	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	329414	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	6305	0.94604	93.6629(Q)	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	4787	1.34669	133.3297	
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	6301	1.48011	146.5389	
5 Acenaphthylene	152		4.657	4.663	(0.980)	2326	0.29438	29.1455	
9 Fluorene	166		5.086	5.086	(1.071)	2553	0.42132	41.7128(Q)	
11 Phenanthrene	178		5.710	5.704	(1.003)	19242	2.06106	204.0565	
12 Anthracene	178		5.745	5.739	(1.009)	1865	0.20144	19.9441	
13 Carbazole	167		5.851	5.851	(1.028)	1500	0.17396	17.2232(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.539	6.539	(1.149)	10403	1.00557	99.5575
16 Pyrene	202	6.704	6.704	(0.879)	10330	1.10446	109.3478
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	5377	0.57837	57.2620(Q)
19 Chrysene	228	7.645	7.645	(1.002)	13338	1.45028	143.5859
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	9387	1.12822	111.7006
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	7200	0.76476	75.7157
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	5839	0.67892	67.2170
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.898	(1.127)	4008	1.10849	109.7473(M)
26 Benzo(g,h,i)perylene	276	10.245	10.233	(1.166)	6826	0.84677	83.8352(Q)

QC Flag Legend

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

Data File: LCD18039.D

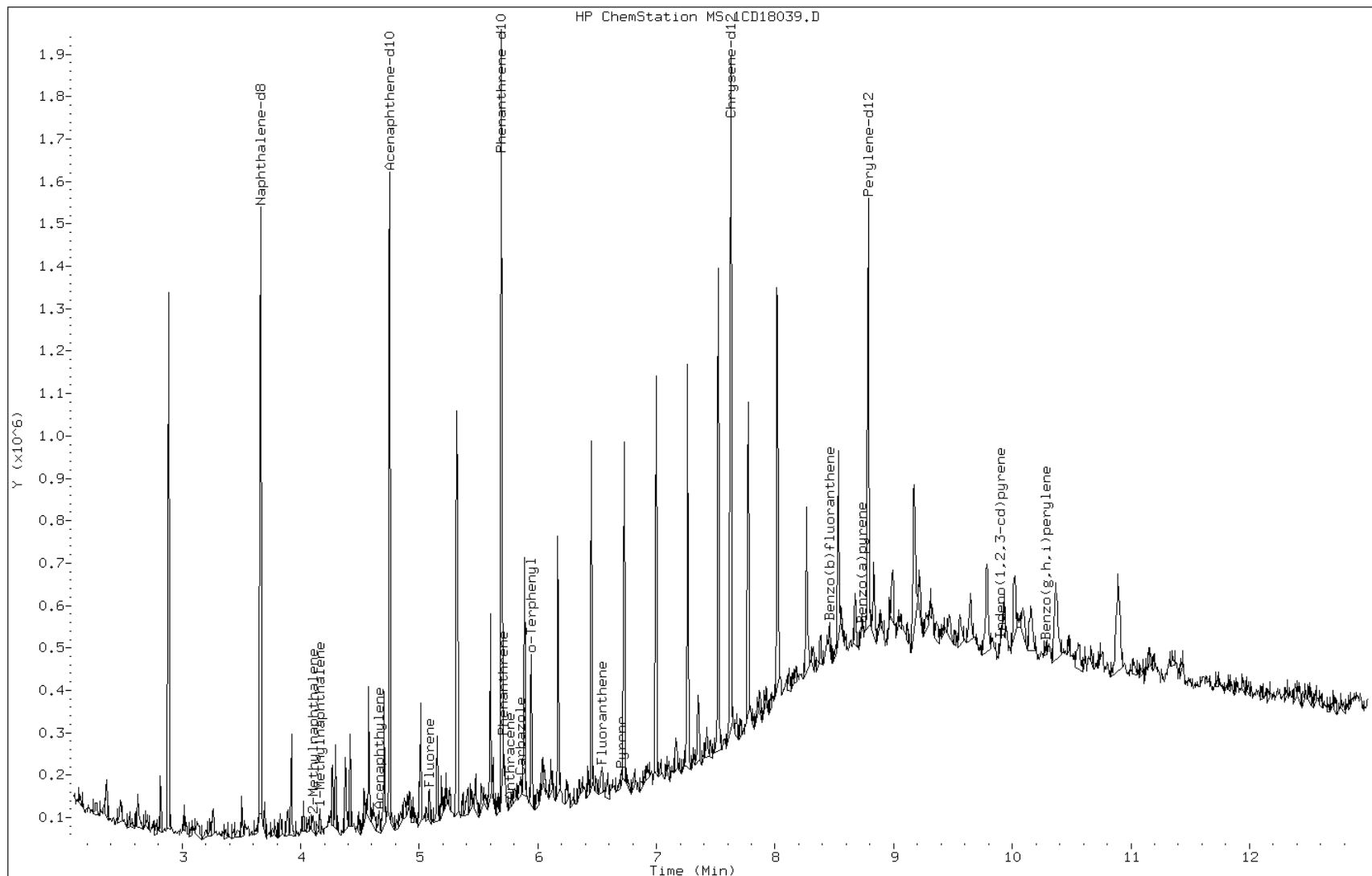
Date: 18-APR-2013 23:00

Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

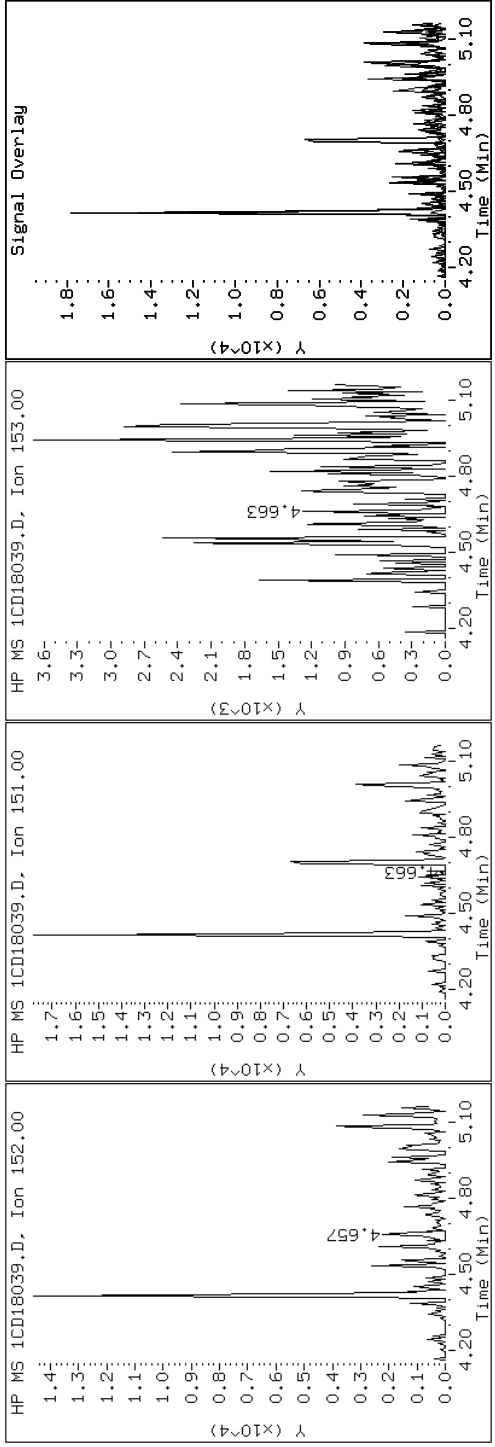
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

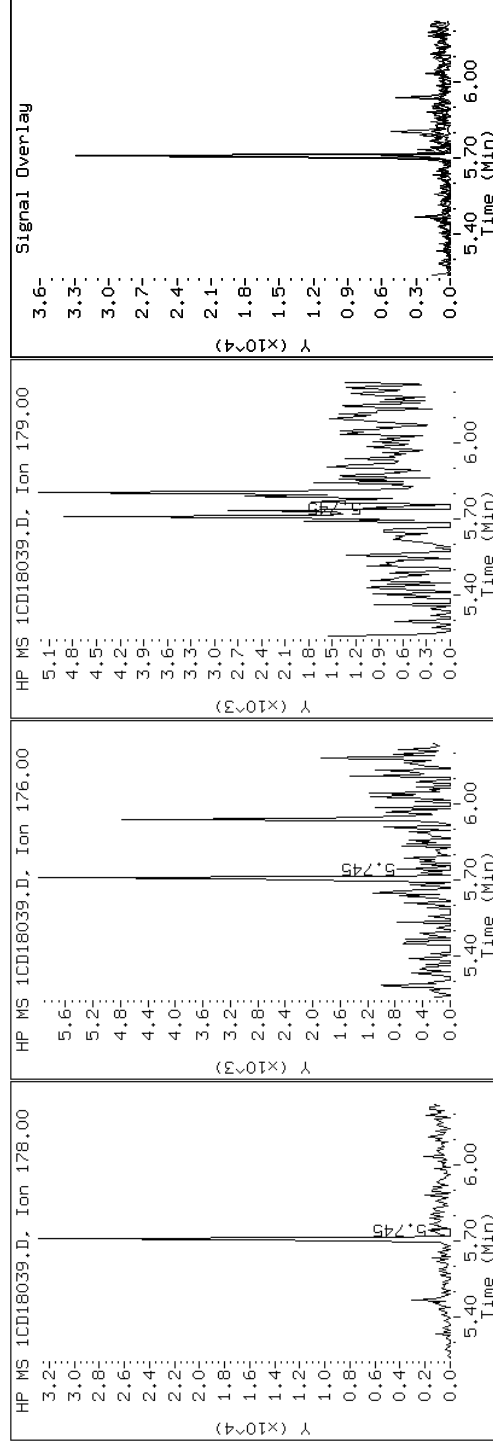
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

12 Anthracene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

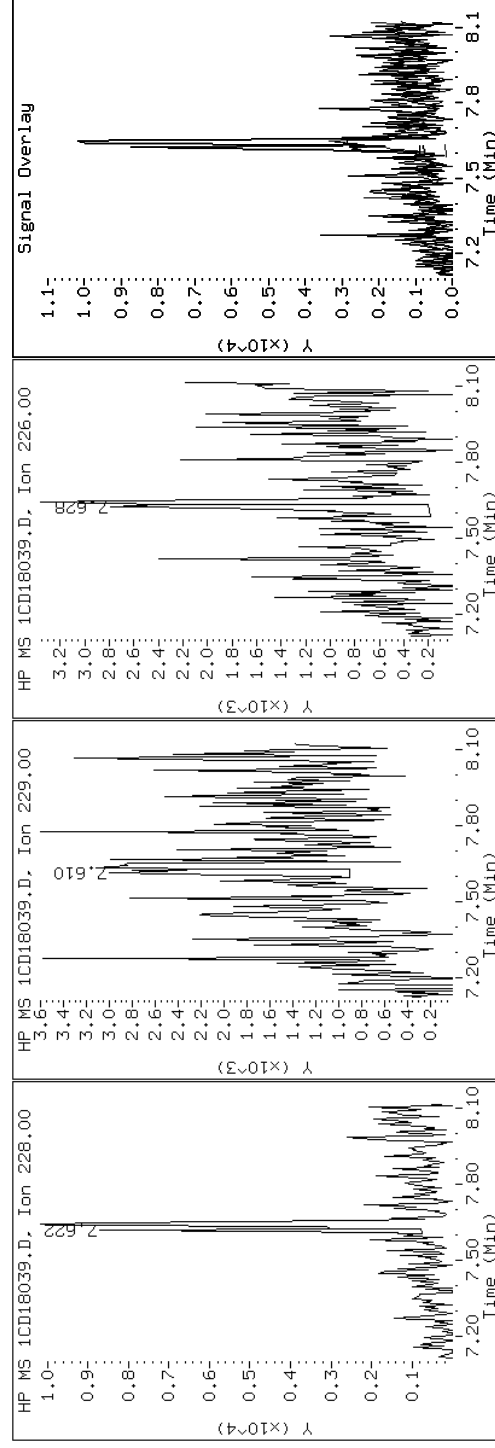
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD18039.D

Date: 18-APR-2013 23:00

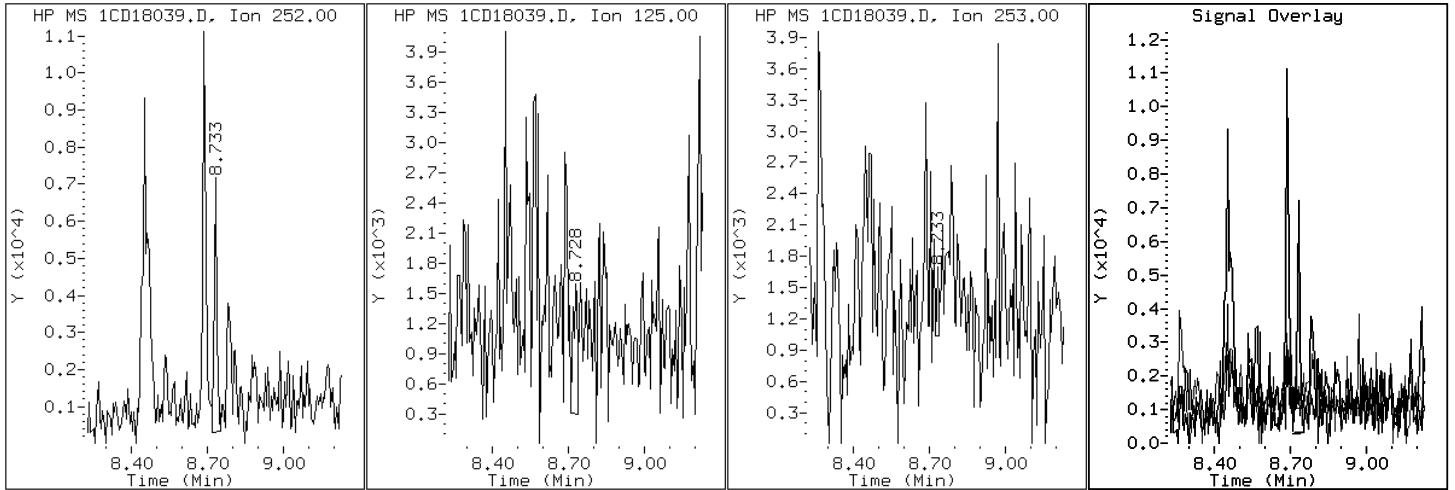
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

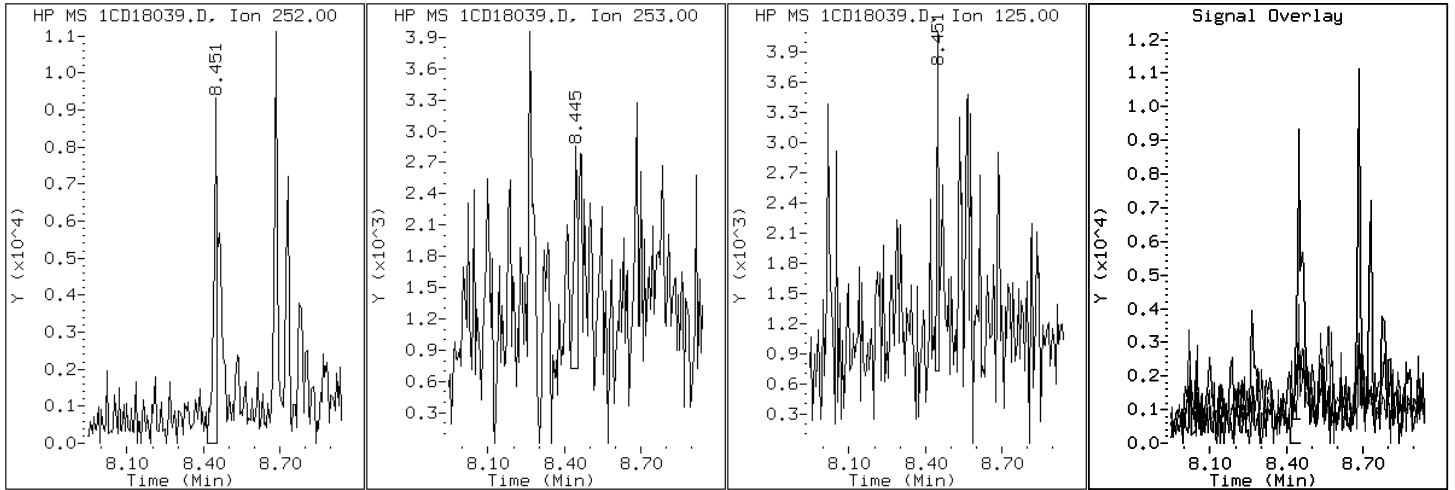
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

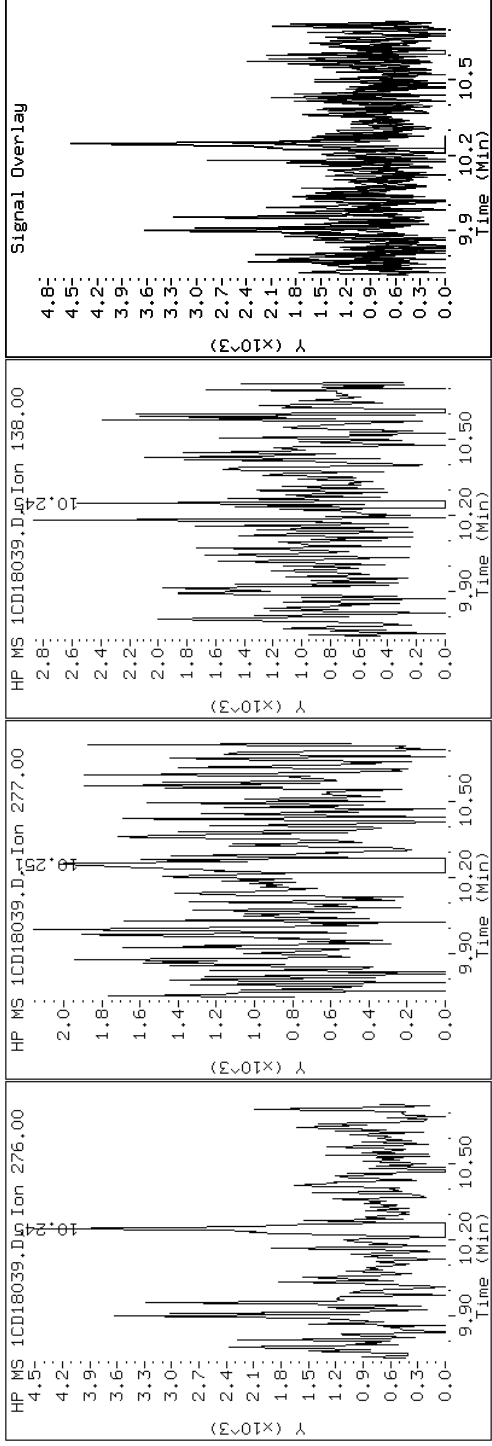
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

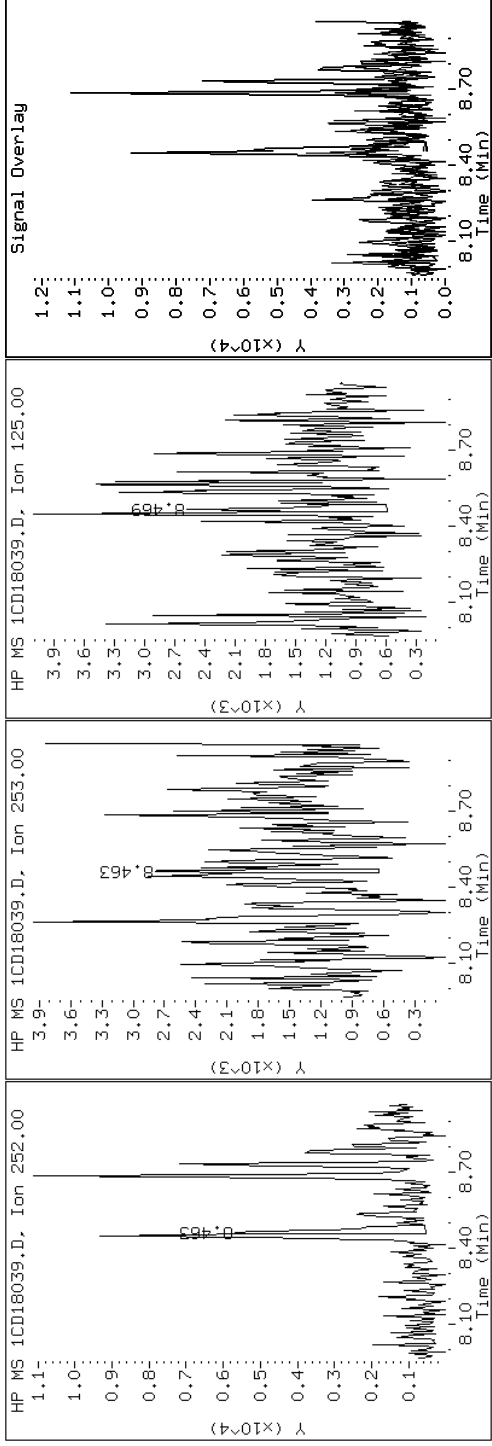
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

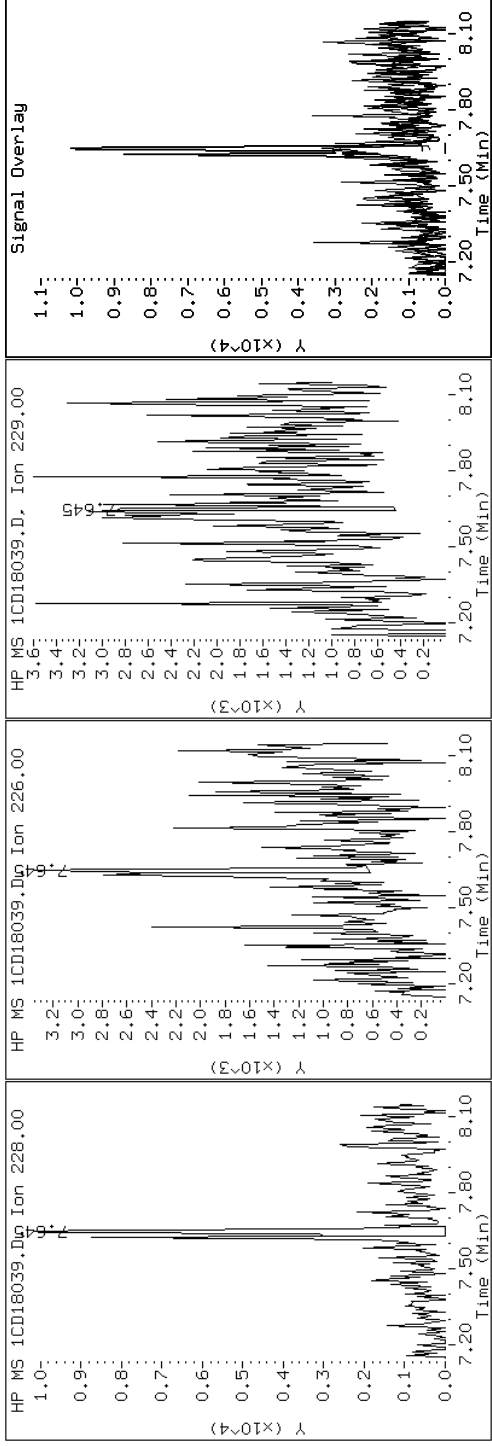
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

19 Chrysene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

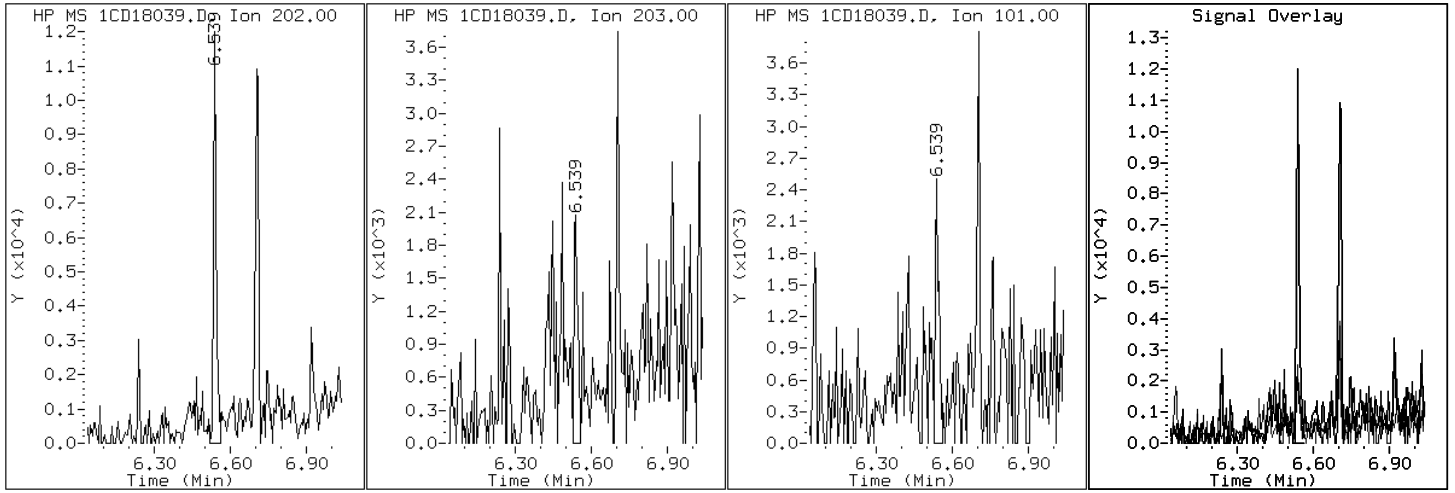
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

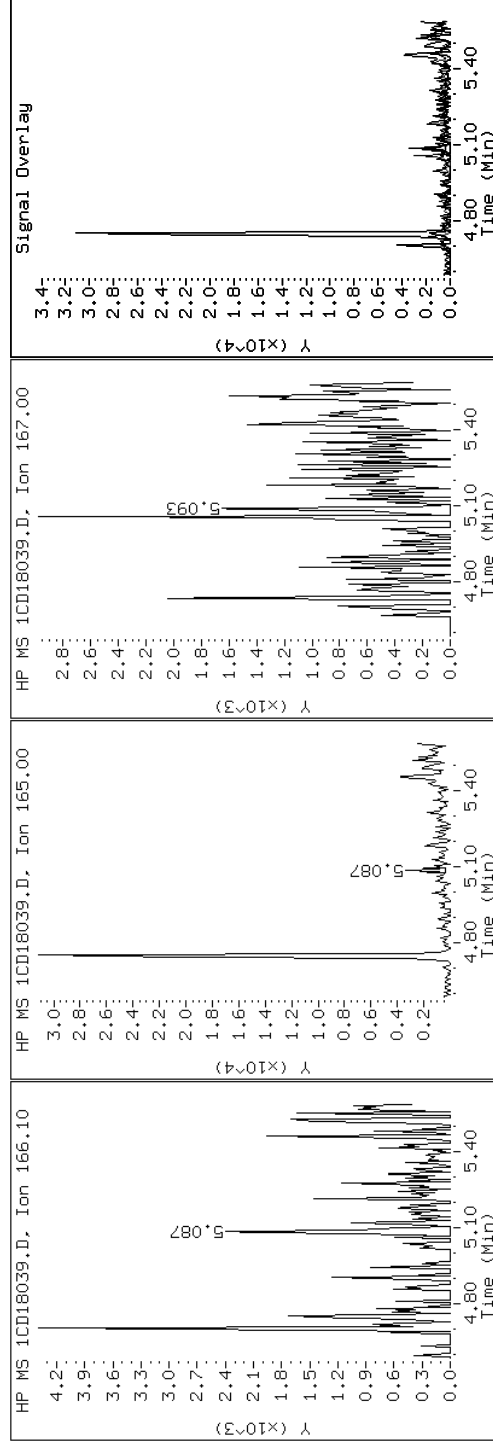
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

### 9 Fluorene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

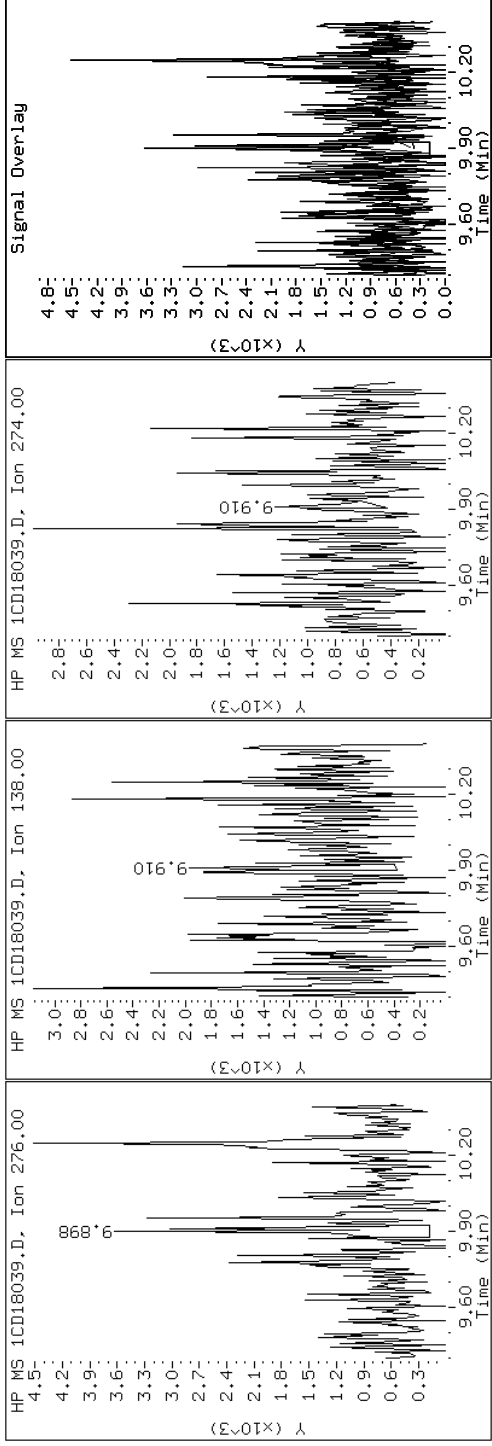
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

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





Data File: 1CD18039.D

Date: 18-APR-2013 23:00

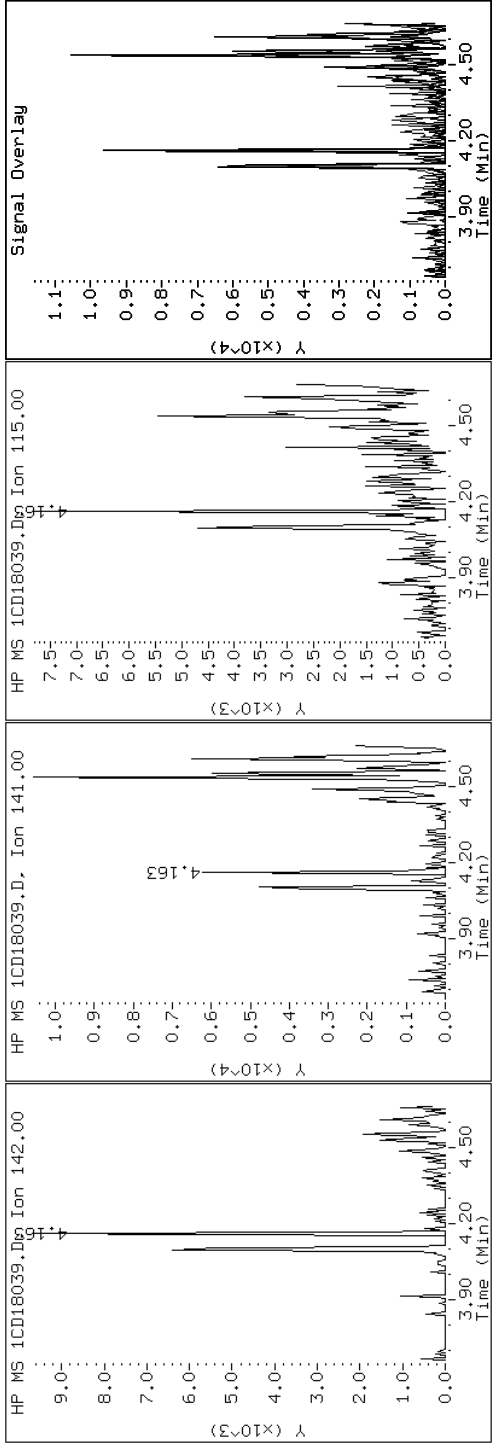
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

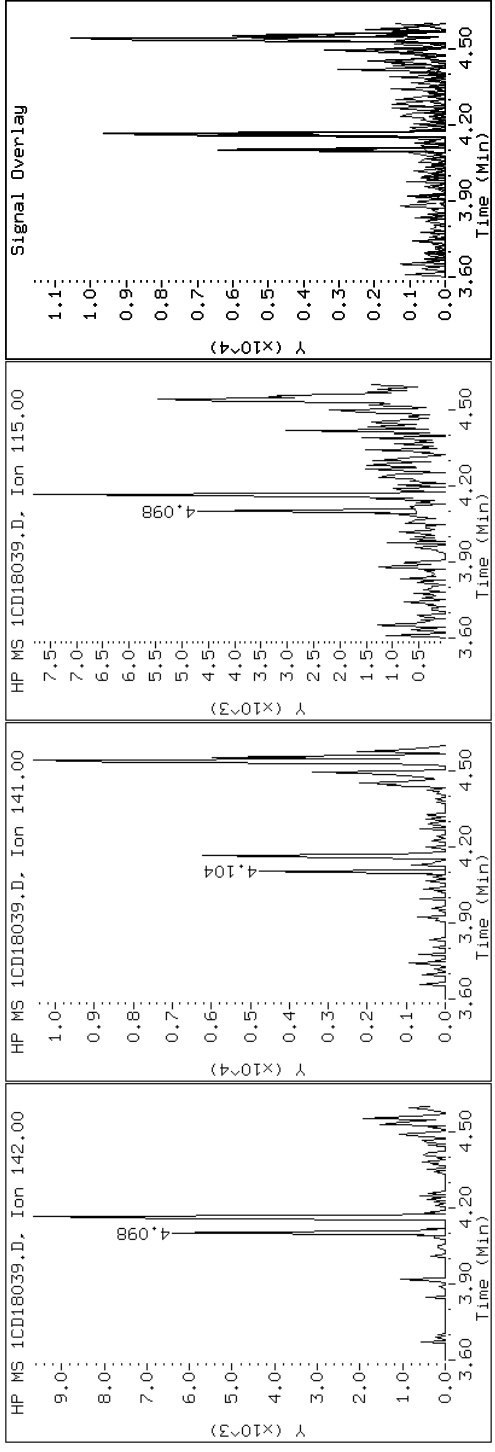
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

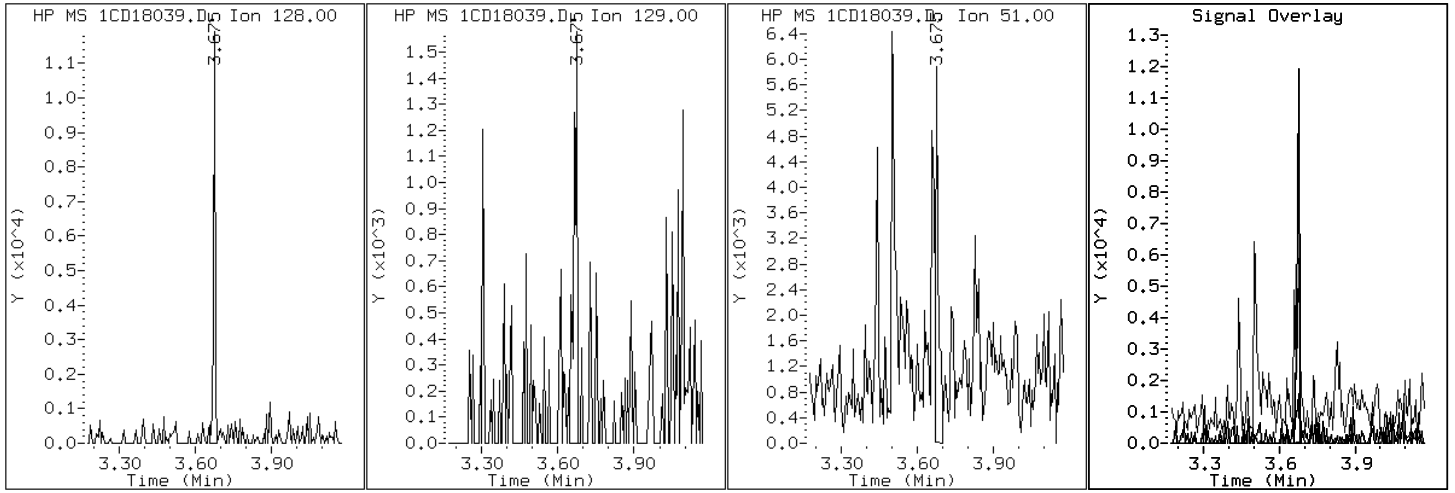
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

2 Naphthalene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

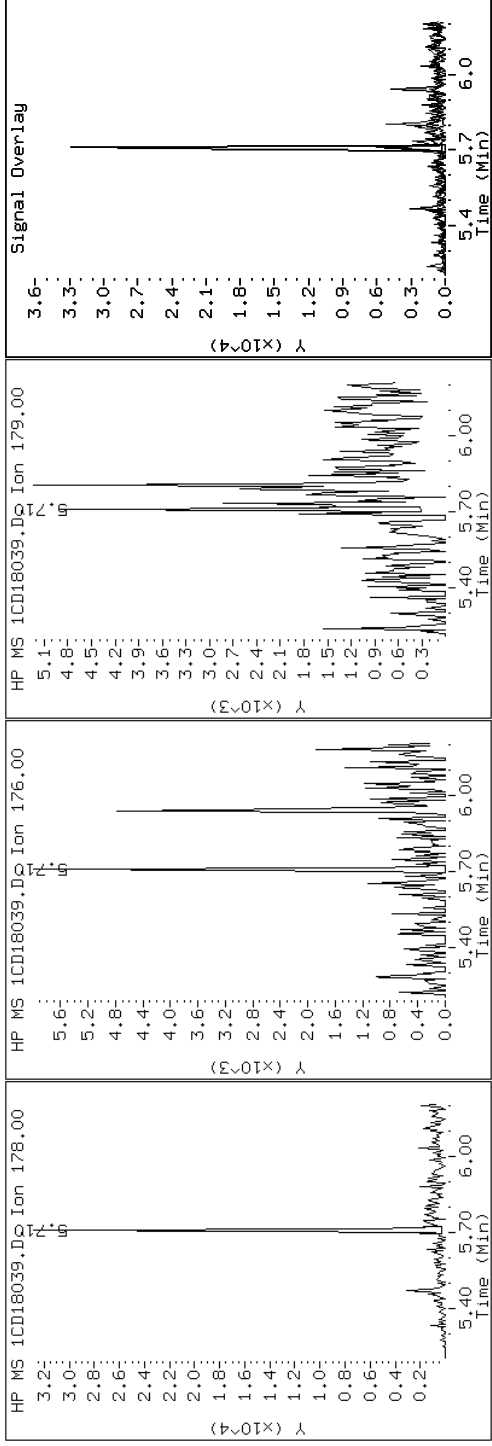
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18039.D

Date: 18-APR-2013 23:00

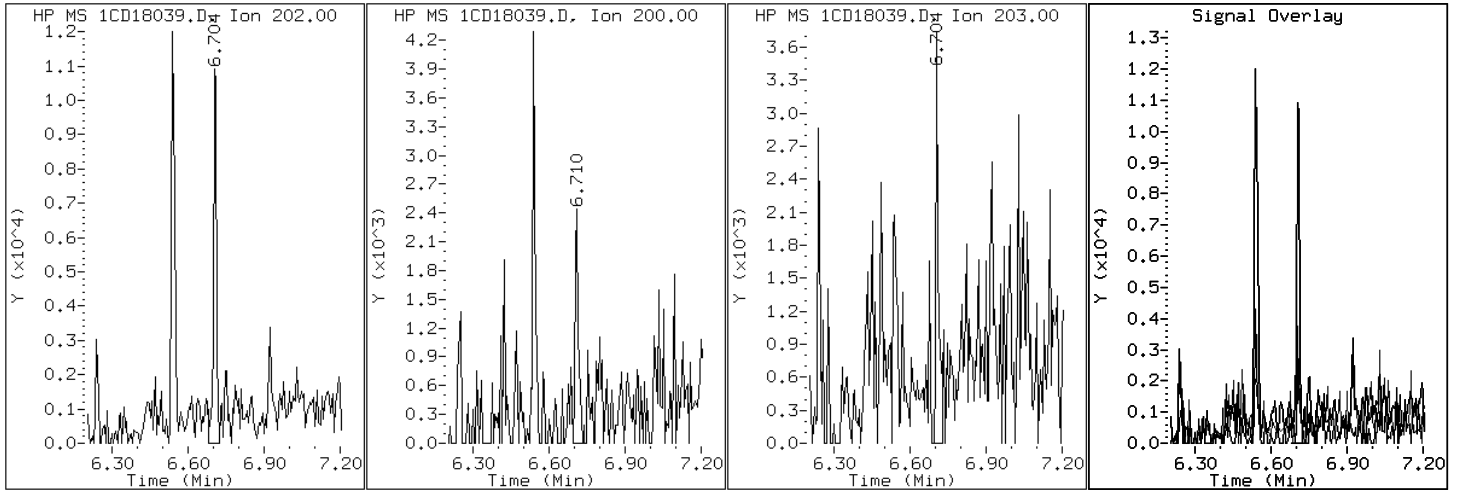
Client ID: HP0140A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-38-a

Operator: SCC

16 Pyrene

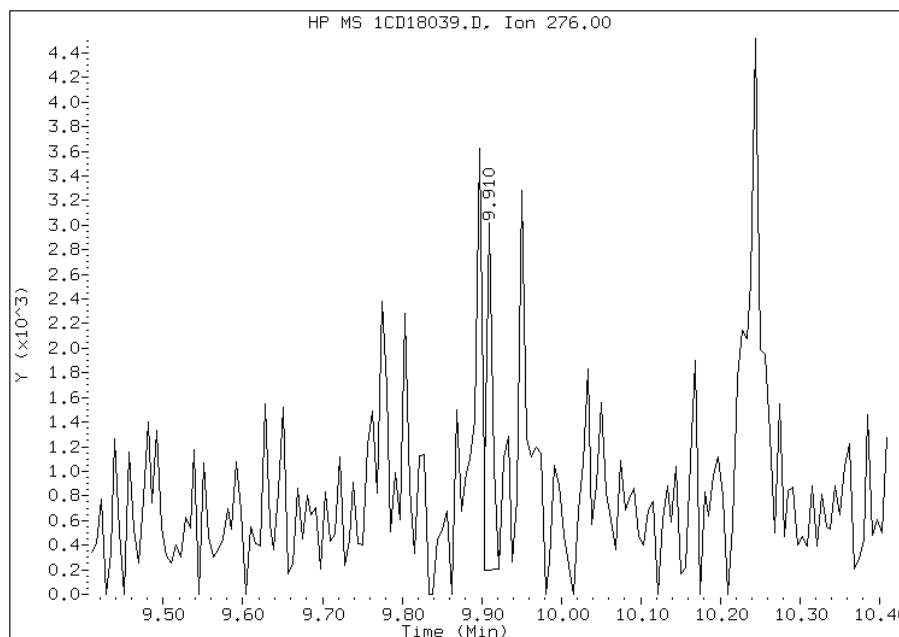


# Manual Integration Report

Data File: 1CD18039.D  
Inj. Date and Time: 18-APR-2013 23:00  
Instrument ID: BSMC5973.i  
Client ID: HP0140A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

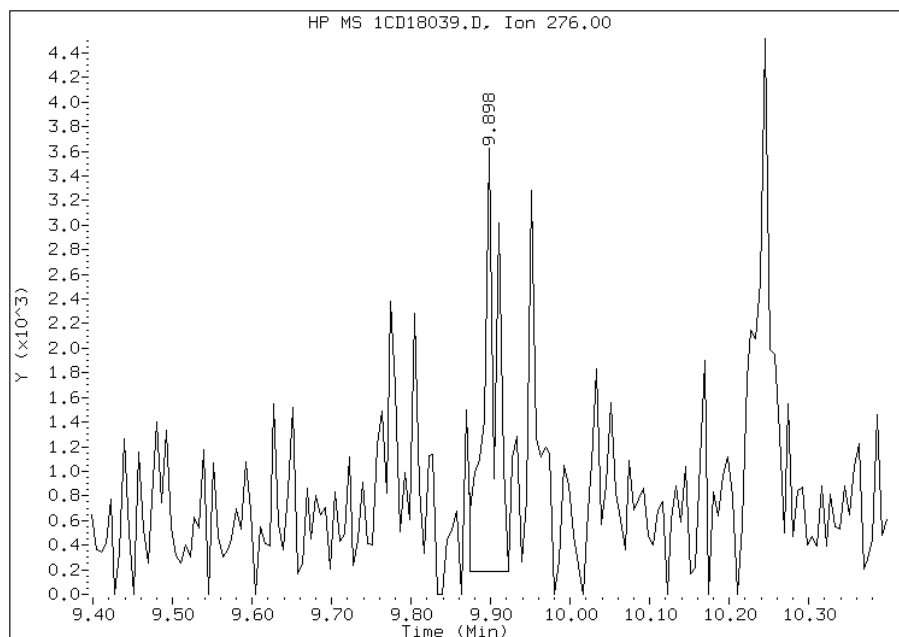
## Processing Integration Results

RT: 9.91  
Response: 1556  
Amount: 1  
Conc: 81



## Manual Integration Results

RT: 9.90  
Response: 4008  
Amount: 1  
Conc: 110



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:49  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: HP0140B-CS-SP Lab Sample ID: 680-89220-39  
 Matrix: Solid Lab File ID: 1CD18040.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 10:22  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.12(g) Date Analyzed: 04/18/2013 23:19  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 38.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	46	J	65	8.1
120-12-7	Anthracene	26		14	6.8
56-55-3	Benzo[a]anthracene	80		13	6.3
50-32-8	Benzo[a]pyrene	110		17	8.4
205-99-2	Benzo[b]fluoranthene	190		20	9.9
191-24-2	Benzo[g,h,i]perylene	94		32	7.1
207-08-9	Benzo[k]fluoranthene	67		13	5.8
218-01-9	Chrysene	140		15	7.3
53-70-3	Dibenz(a,h)anthracene	32	U	32	6.6
206-44-0	Fluoranthene	97		32	6.5
86-73-7	Fluorene	14	J	32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	140		32	11
90-12-0	1-Methylnaphthalene	66		65	7.1
91-57-6	2-Methylnaphthalene	110		65	11
91-20-3	Naphthalene	77		65	7.1
85-01-8	Phenanthrene	88		13	6.3
129-00-0	Pyrene	140		32	6.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18040.D  
 Lab Smp Id: 680-89220-A-39-A Client Smp ID: HP0140B-CS-SP  
 Inj Date : 18-APR-2013 23:19  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-39-a  
 Misc Info : 680-89220-A-39-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 40  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	38.710	% 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		3.663	3.663	(1.000)	263110	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	186358	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	320320	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	38837	8.01136	864.4954	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	323436	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	317205	40.0000		
2 Naphthalene	128		3.675	3.674	(1.003)	5088	0.71538	77.1960	
3 2-Methylnaphthalene	142		4.104	4.098	(1.120)	3400	0.98750	106.5602(Q)	
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	2778	0.61148	65.9843(Q)	
5 Acenaphthylene	152		4.663	4.663	(0.981)	3339	0.42284	45.6276	
9 Fluorene	166		5.086	5.086	(1.071)	768	0.12682	13.6845(Q)	
11 Phenanthrene	178		5.710	5.704	(1.003)	7647	0.82006	88.4919	
12 Anthracene	178		5.745	5.739	(1.009)	2253	0.24228	26.1438	
13 Carbazole	167		5.851	5.851	(1.028)	805	0.09295	10.0297(Q)	



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.539	6.539	(1.149)	9350	0.89980	97.0957
16 Pyrene	202	6.704	6.704	(0.879)	11523	1.25231	135.1348
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	6811	0.74469	80.3580(Q)
19 Chrysene	228	7.645	7.645	(1.002)	12050	1.33181	143.7142
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	14356	1.79186	193.3571
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	5590	0.61660	66.5370
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	8732	1.05438	113.7764
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.898	(1.127)	5671	1.32867	143.3749(M)
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	6768	0.87189	94.0845(M)

QC Flag Legend

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

Data File: 1CD18040.D

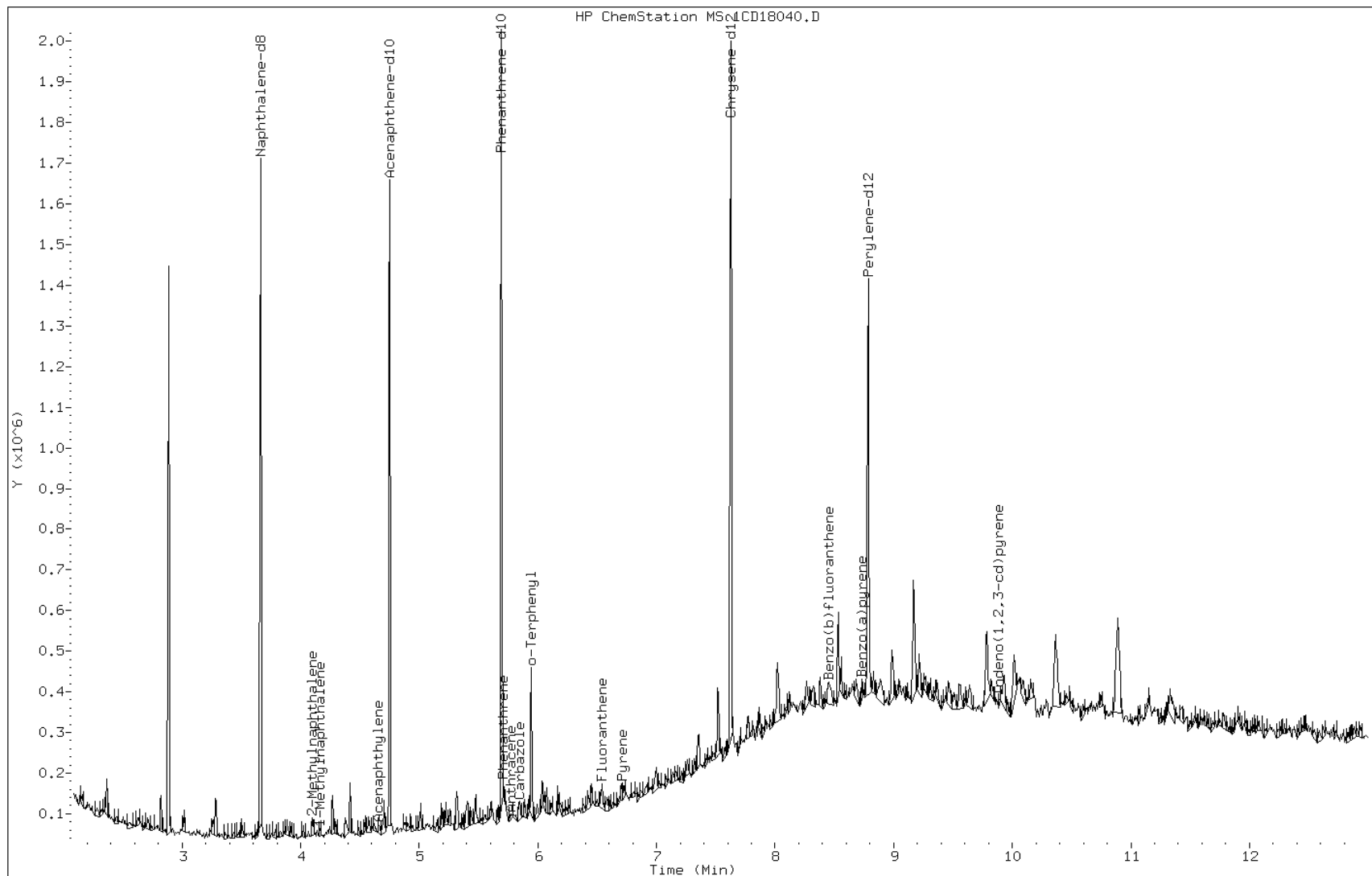
Date: 18-APR-2013 23:19

Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

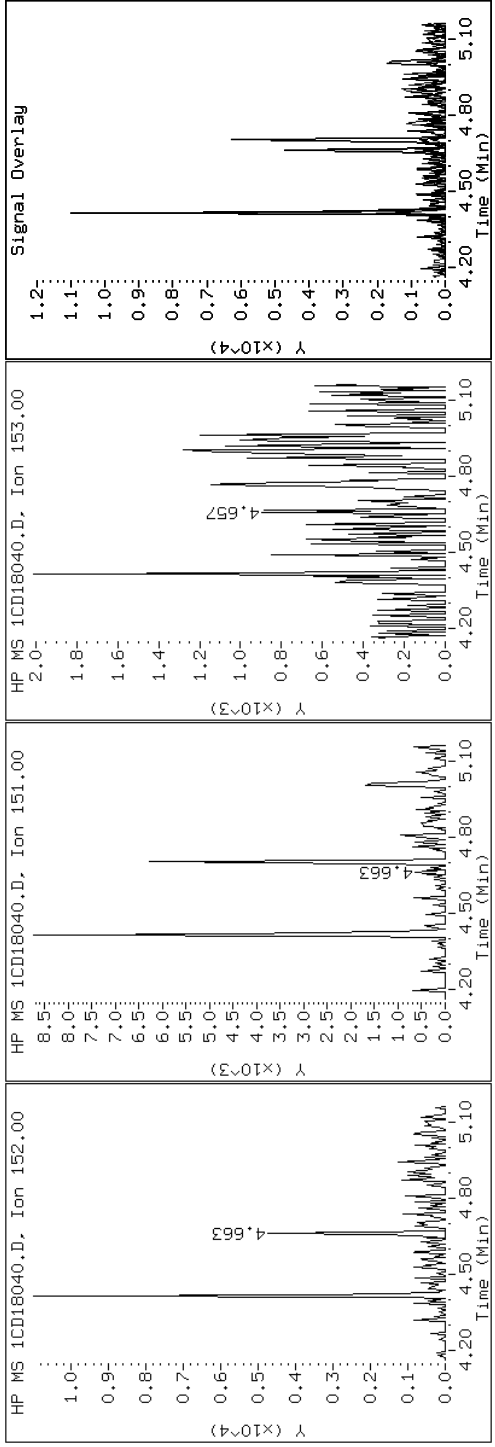
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

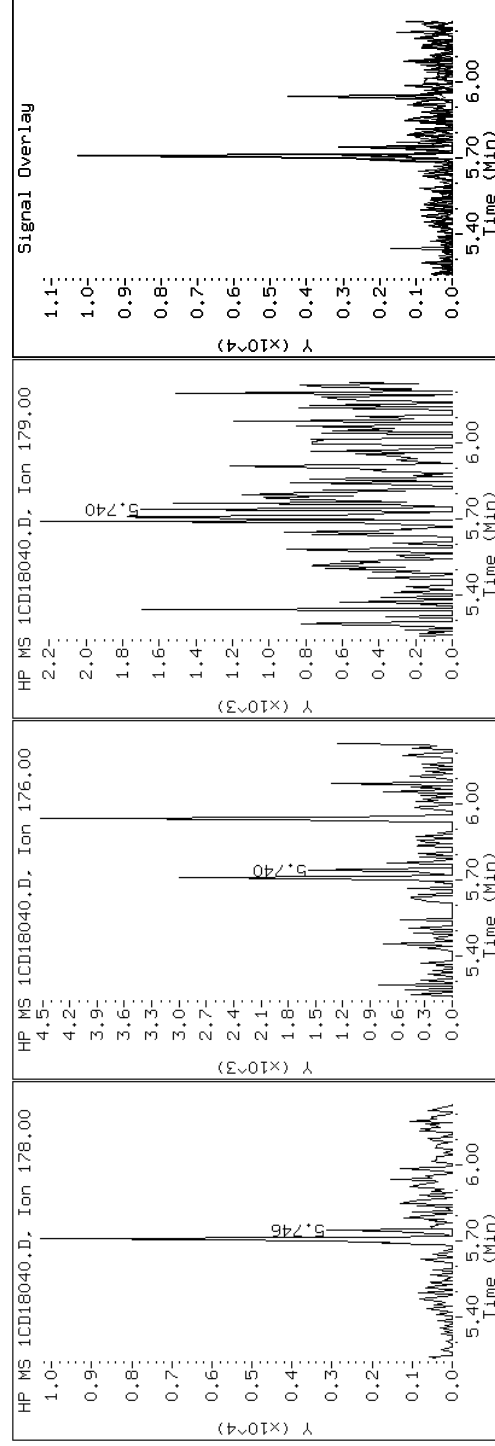
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

12 Anthracene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

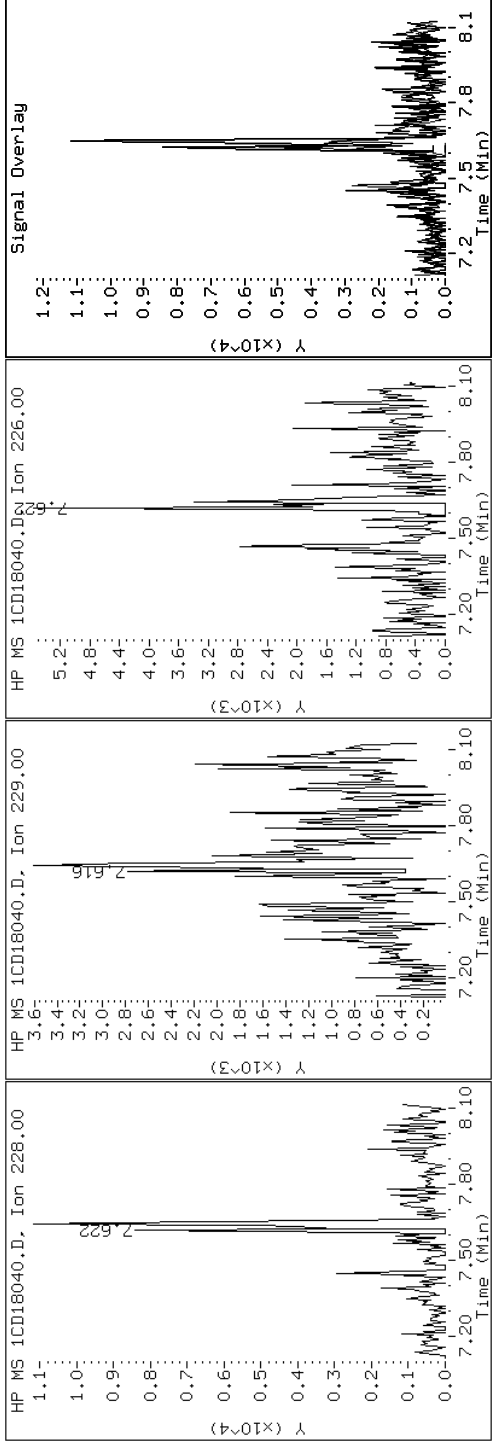
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

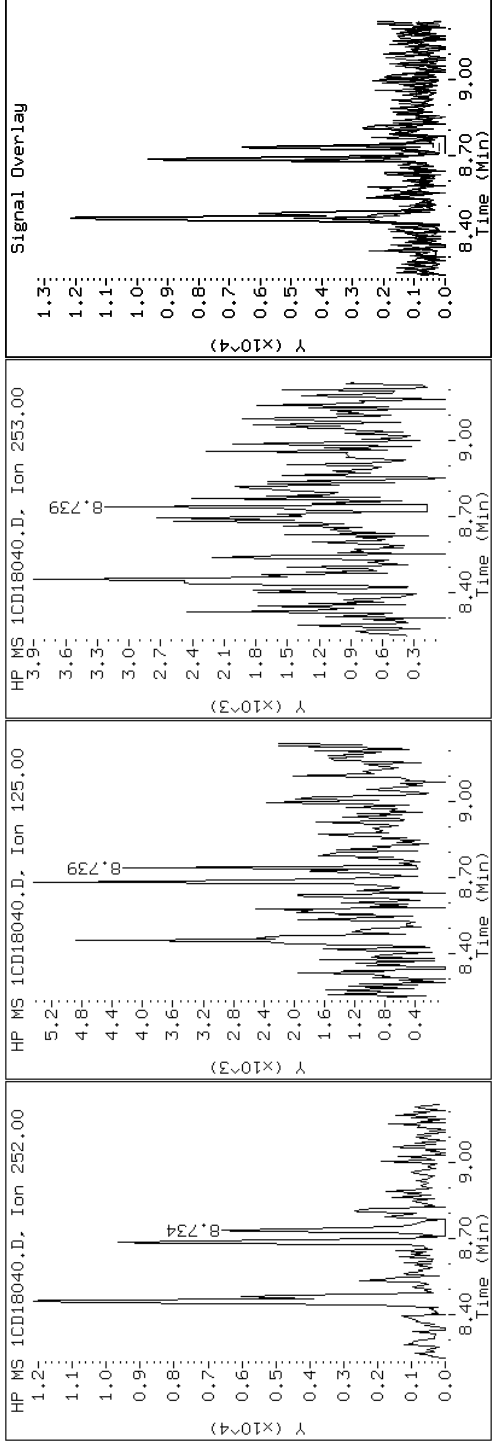
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

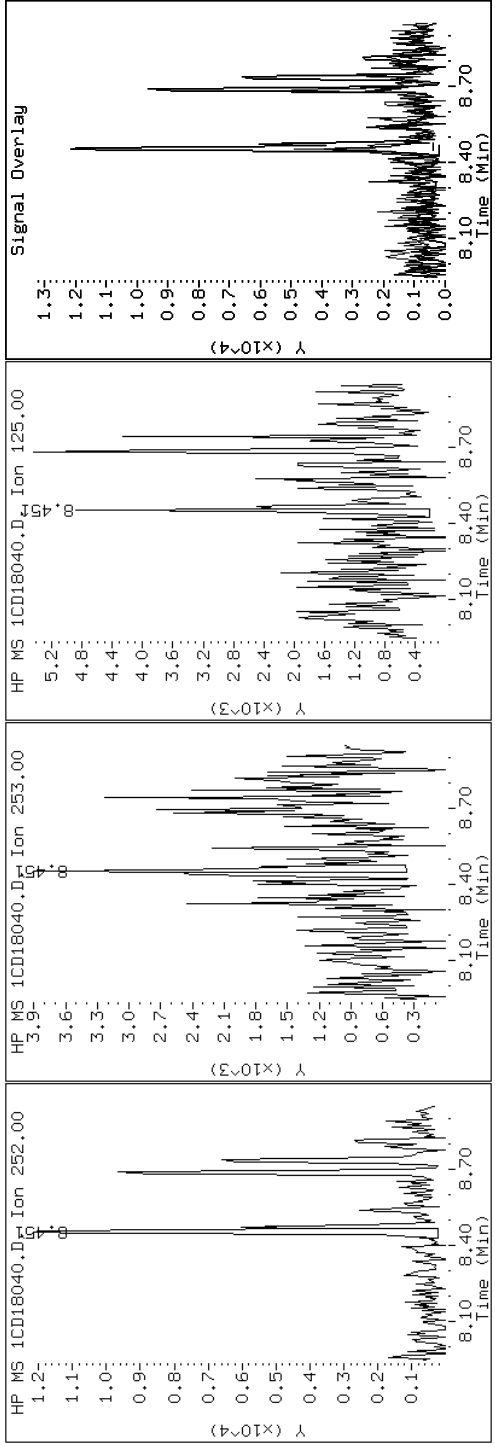
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

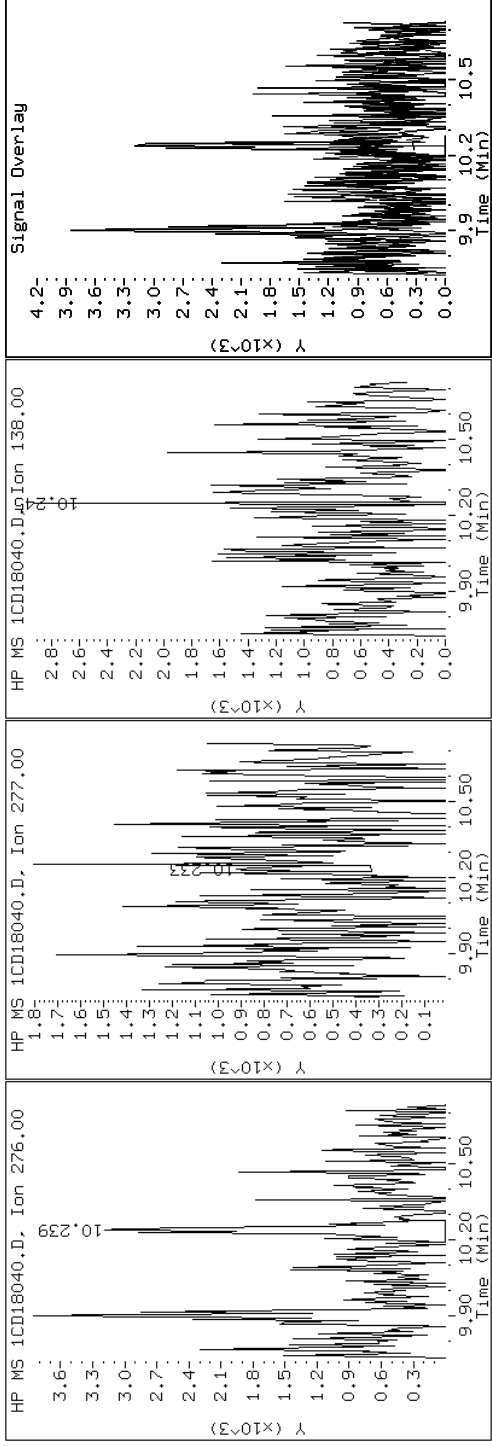
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1CD18040.D

Date: 18-APR-2013 23:19

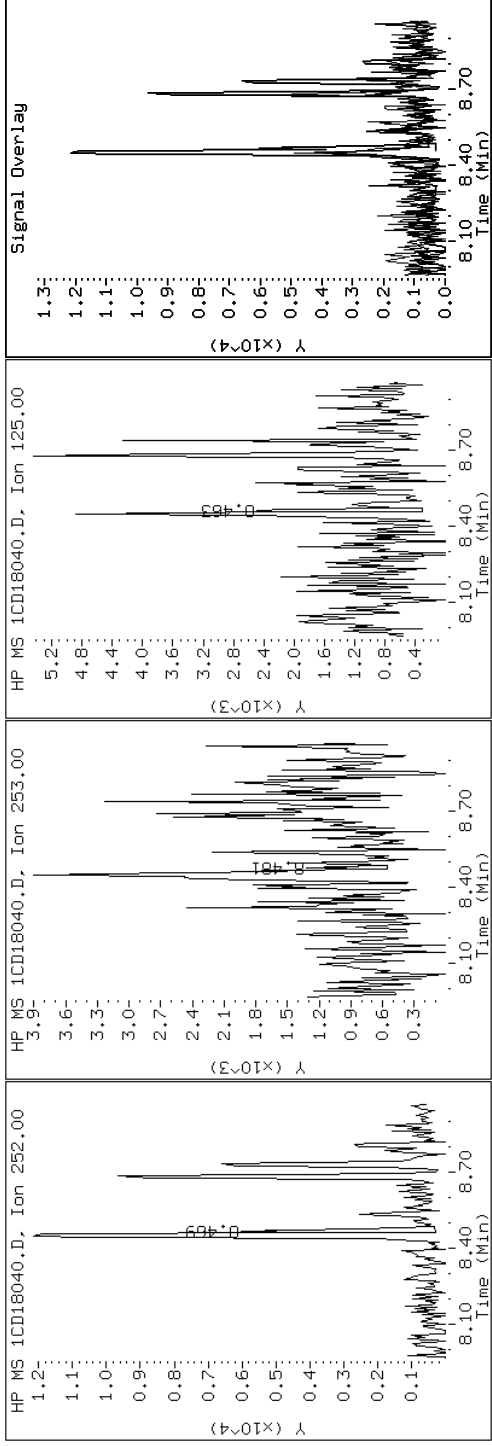
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

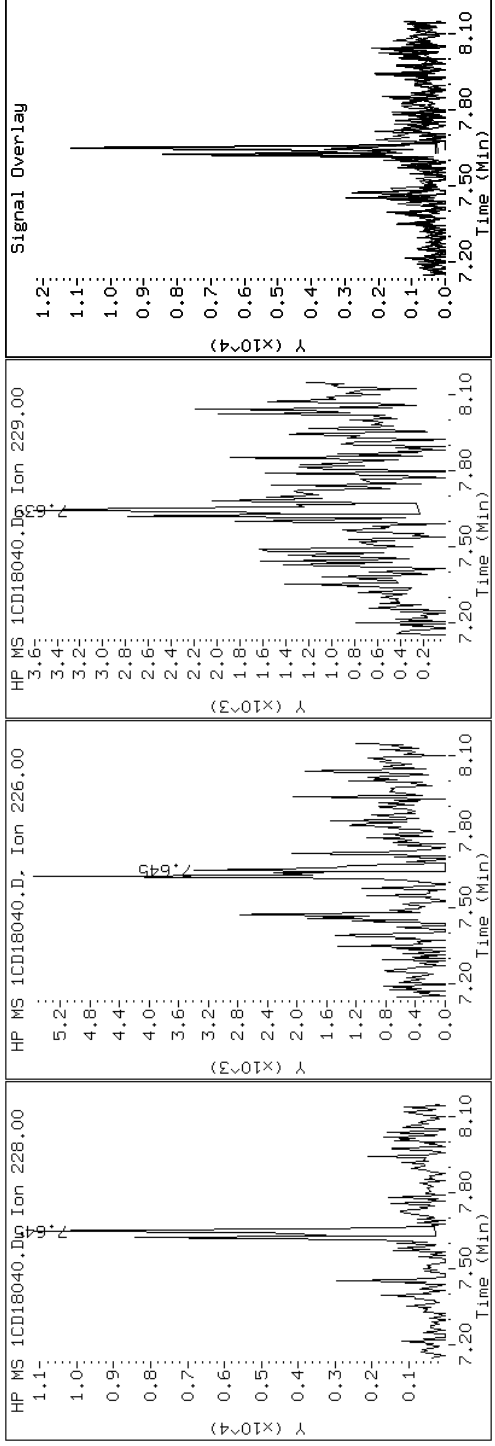
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

19 Chrysene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

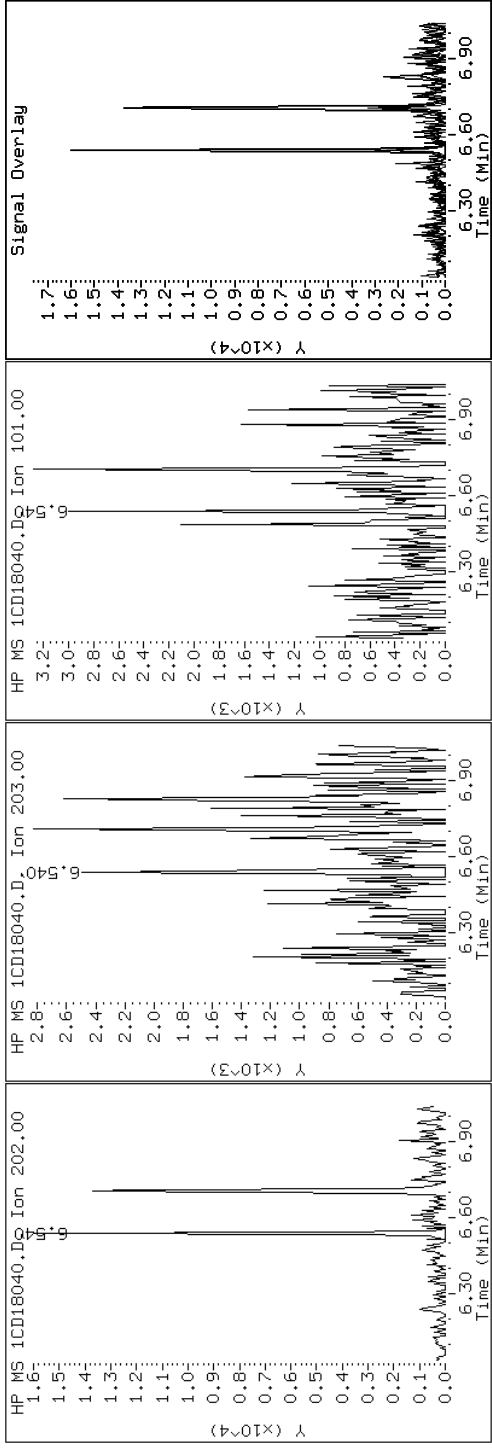
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

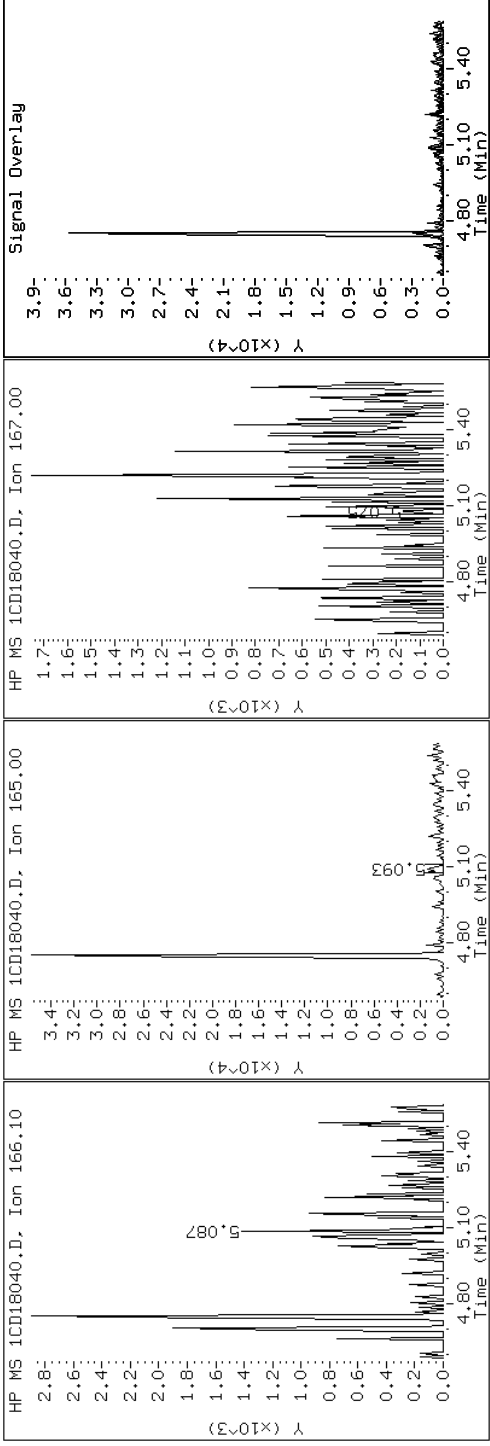
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

9 Fluorene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

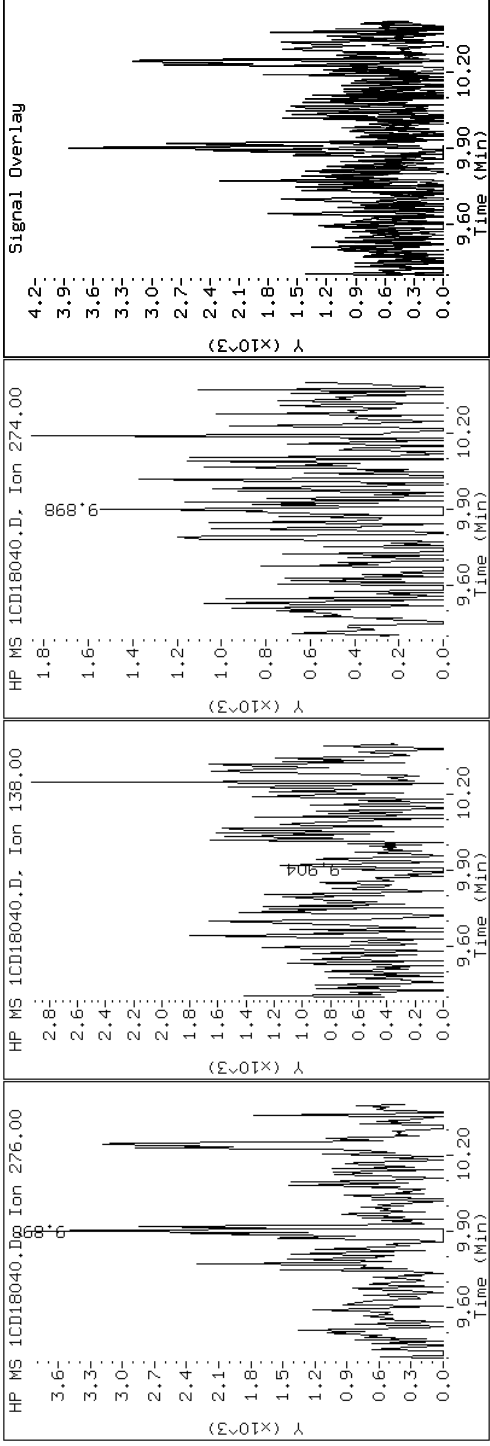
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

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



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

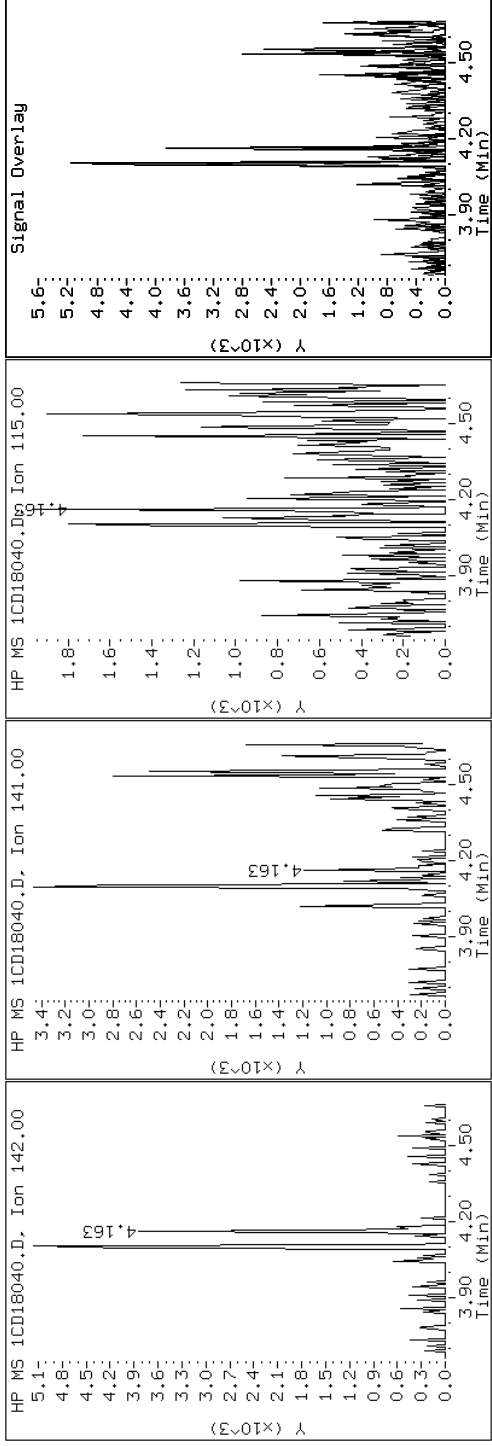
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

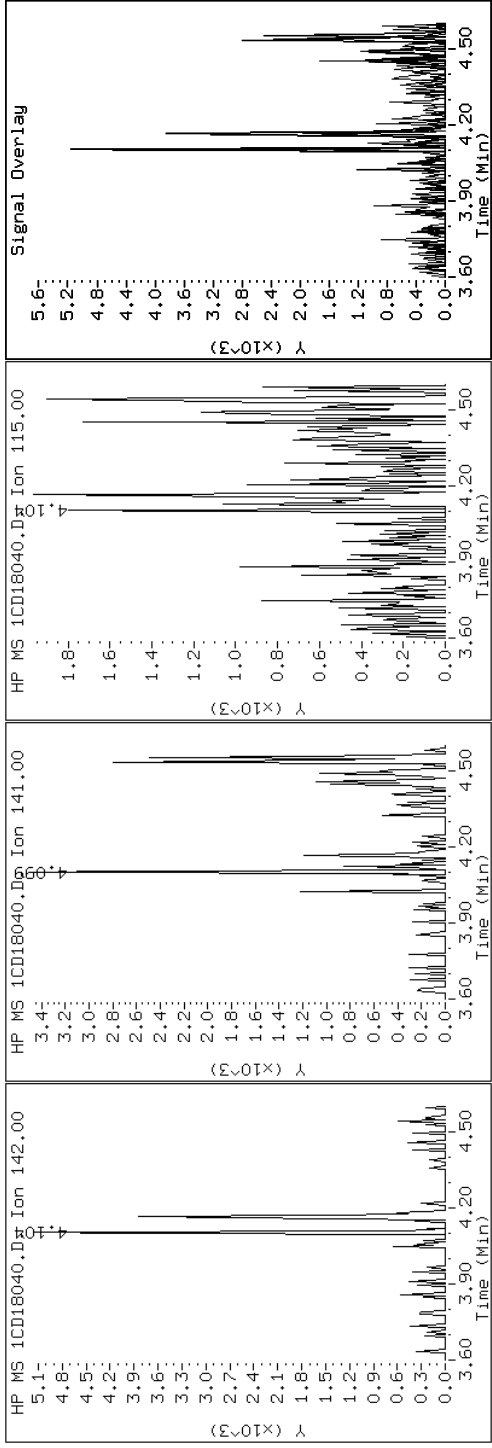
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

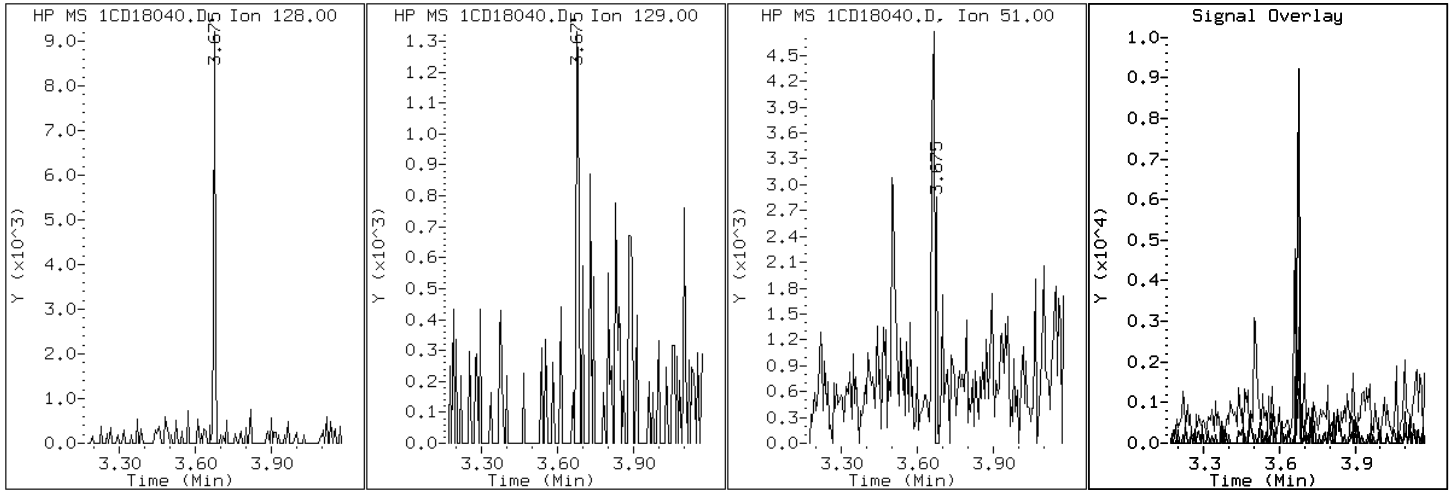
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

2 Naphthalene





Data File: 1CD18040.D

Date: 18-APR-2013 23:19

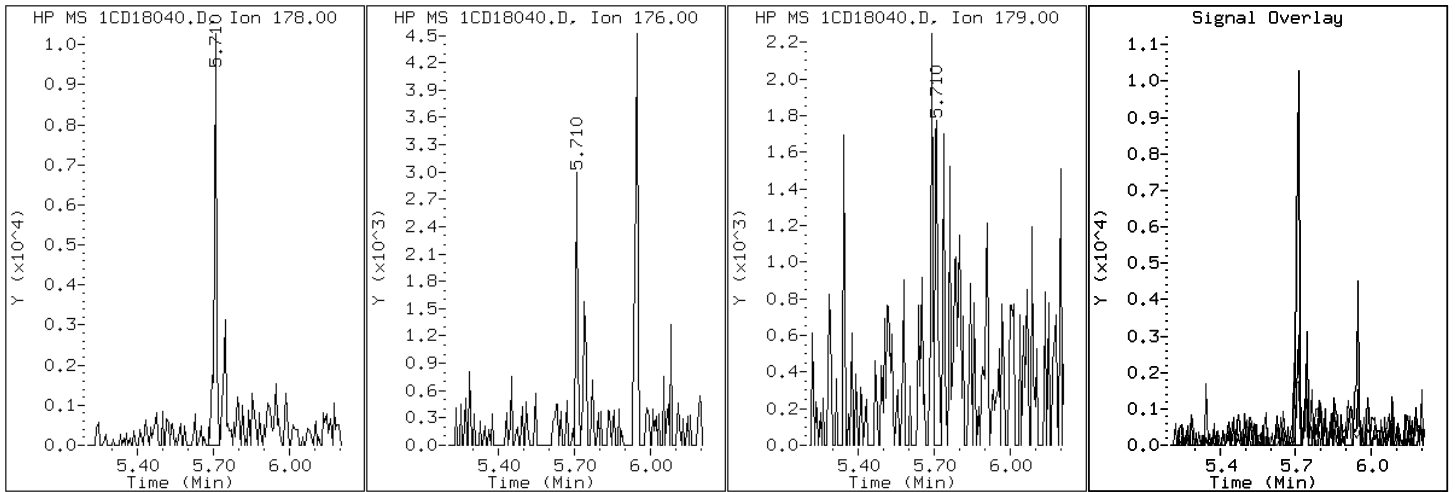
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

11 Phenanthrene



Data File: 1CD18040.D

Date: 18-APR-2013 23:19

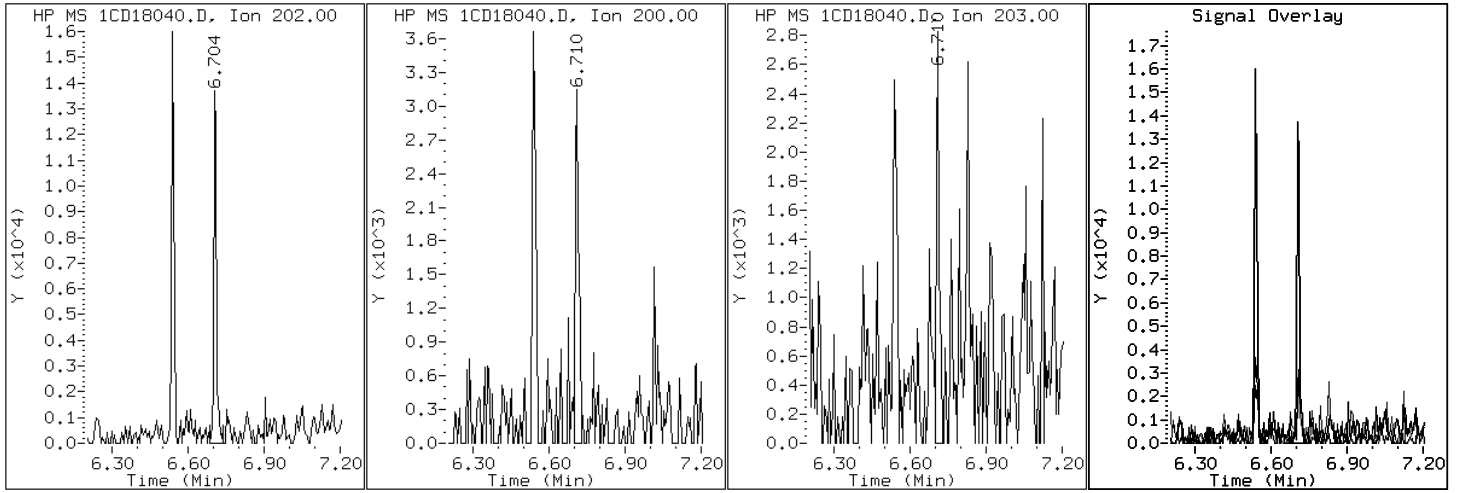
Client ID: HP0140B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-39-a

Operator: SCC

16 Pyrene

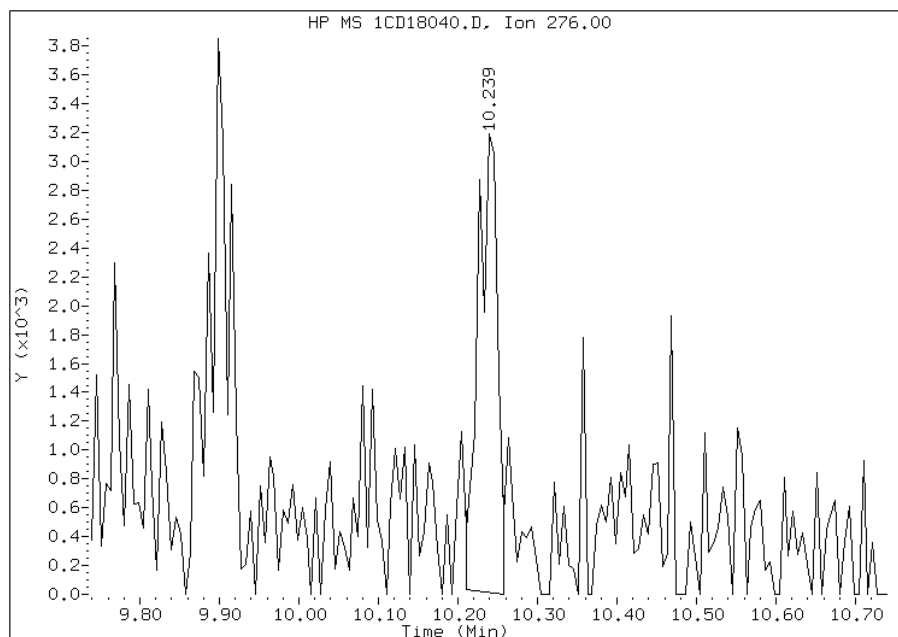


# Manual Integration Report

Data File: 1CD18040.D  
Inj. Date and Time: 18-APR-2013 23:19  
Instrument ID: BSMC5973.i  
Client ID: HP0140B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/19/2013

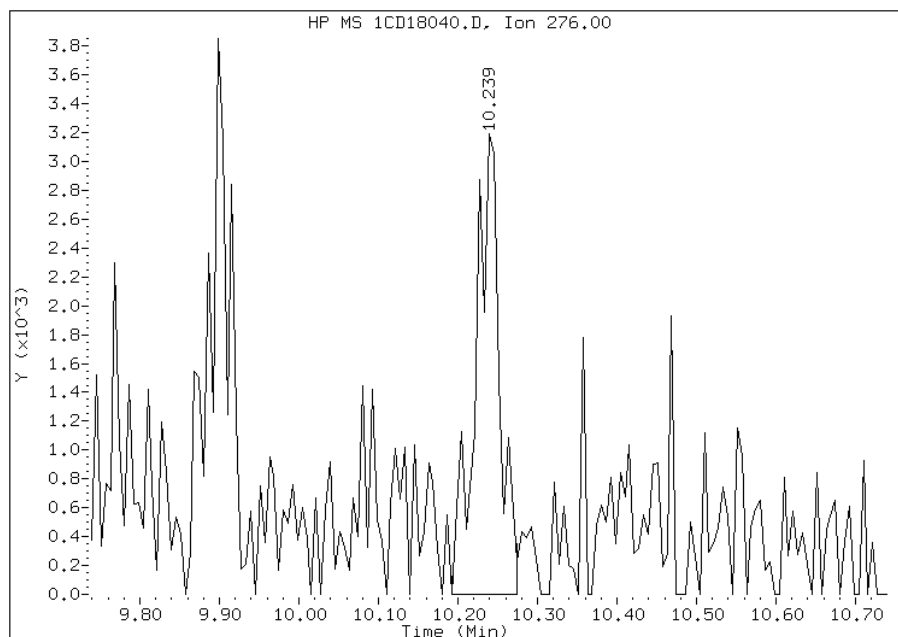
## Processing Integration Results

RT: 10.24  
Response: 5410  
Amount: 1  
Conc: 75



## Manual Integration Results

RT: 10.24  
Response: 6768  
Amount: 1  
Conc: 94



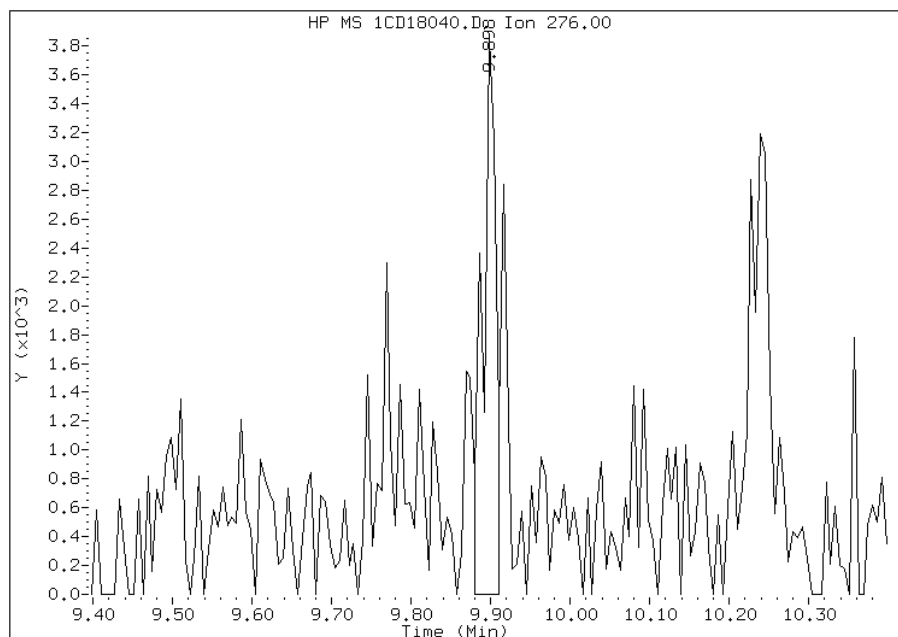
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:51  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18040.D  
Inj. Date and Time: 18-APR-2013 23:19  
Instrument ID: BSMC5973.i  
Client ID: HP0140B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

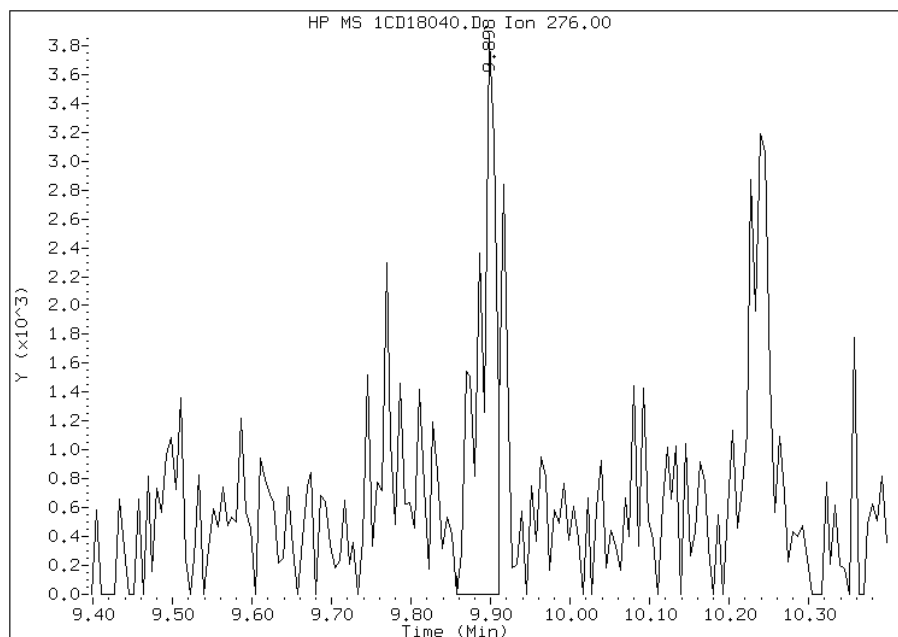
## Processing Integration Results

RT: 9.90  
Response: 4478  
Amount: 1  
Conc: 128



## Manual Integration Results

RT: 9.90  
Response: 5671  
Amount: 1  
Conc: 143



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:51  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: HP0142A-CS-SP Lab Sample ID: 680-89220-40  
 Matrix: Solid Lab File ID: 1CD18041.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 09:37  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 14.96(g) Date Analyzed: 04/18/2013 23:37  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 34.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	43	J	61	7.6
120-12-7	Anthracene	81		13	6.4
56-55-3	Benzo[a]anthracene	160		12	5.9
50-32-8	Benzo[a]pyrene	210		16	7.9
205-99-2	Benzo[b]fluoranthene	380		19	9.3
191-24-2	Benzo[g,h,i]perylene	150		30	6.7
207-08-9	Benzo[k]fluoranthene	210		12	5.5
218-01-9	Chrysene	210		14	6.8
53-70-3	Dibenz(a,h)anthracene	110		30	6.2
206-44-0	Fluoranthene	200		30	6.1
86-73-7	Fluorene	15	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	200		30	11
90-12-0	1-Methylnaphthalene	580		61	6.7
91-57-6	2-Methylnaphthalene	930		61	11
91-20-3	Naphthalene	1000		61	6.7
85-01-8	Phenanthrene	420		12	5.9
129-00-0	Pyrene	250		30	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18041.D  
 Lab Smp Id: 680-89220-A-40-A Client Smp ID: HP0142A-CS-SP  
 Inj Date : 18-APR-2013 23:37  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-40-a  
 Misc Info : 680-89220-A-40-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 41  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	33.962	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	258498	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.745	(1.000)	173637	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	317057	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	37873	7.90311	799.9705
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	321026	40.0000	
* 23 Perylene-d12	264		8.786	8.780	(1.000)	309956	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	68727	9.83556	995.5780
3 2-Methylnaphthalene	142		4.104	4.098	(1.120)	41859	9.22982	934.2635
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	25772	5.77405	584.4630
5 Acenaphthylene	152		4.663	4.663	(0.981)	3094	0.42051	42.5654
9 Fluorene	166		5.098	5.086	(1.073)	825	0.14621	14.7995(Q)
11 Phenanthrene	178		5.710	5.704	(1.003)	38518	4.14454	419.5196
12 Anthracene	178		5.745	5.739	(1.009)	7355	0.79906	80.8831
13 Carbazole	167		5.851	5.851	(1.028)	5008	0.58419	59.1326

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
15 Fluoranthene	202	6.539	6.539	(1.149)	20119	1.95607	197.9983	
16 Pyrene	202	6.709	6.704	(0.880)	22412	2.45400	248.3992	
17 Benzo(a)anthracene	228	7.621	7.615	(0.999)	14613	1.60972	162.9393	
19 Chrysene	228	7.645	7.645	(1.002)	18985	2.11405	213.9890	
20 Benzo(b)fluoranthene	252	8.451	8.445	(0.962)	29700	3.79373	384.0105(M)	
21 Benzo(k)fluoranthene	252	8.456	8.468	(0.963)	18425	2.07990	210.5323(MH)	
22 Benzo(a)pyrene	252	8.733	8.727	(0.994)	17001	2.10086	212.6537	
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.898	(1.128)	11040	2.01260	203.7199(M)	
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.128)	4739	1.04410	105.6859	
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	11068	1.45919	147.7022(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: 1CD18041.D

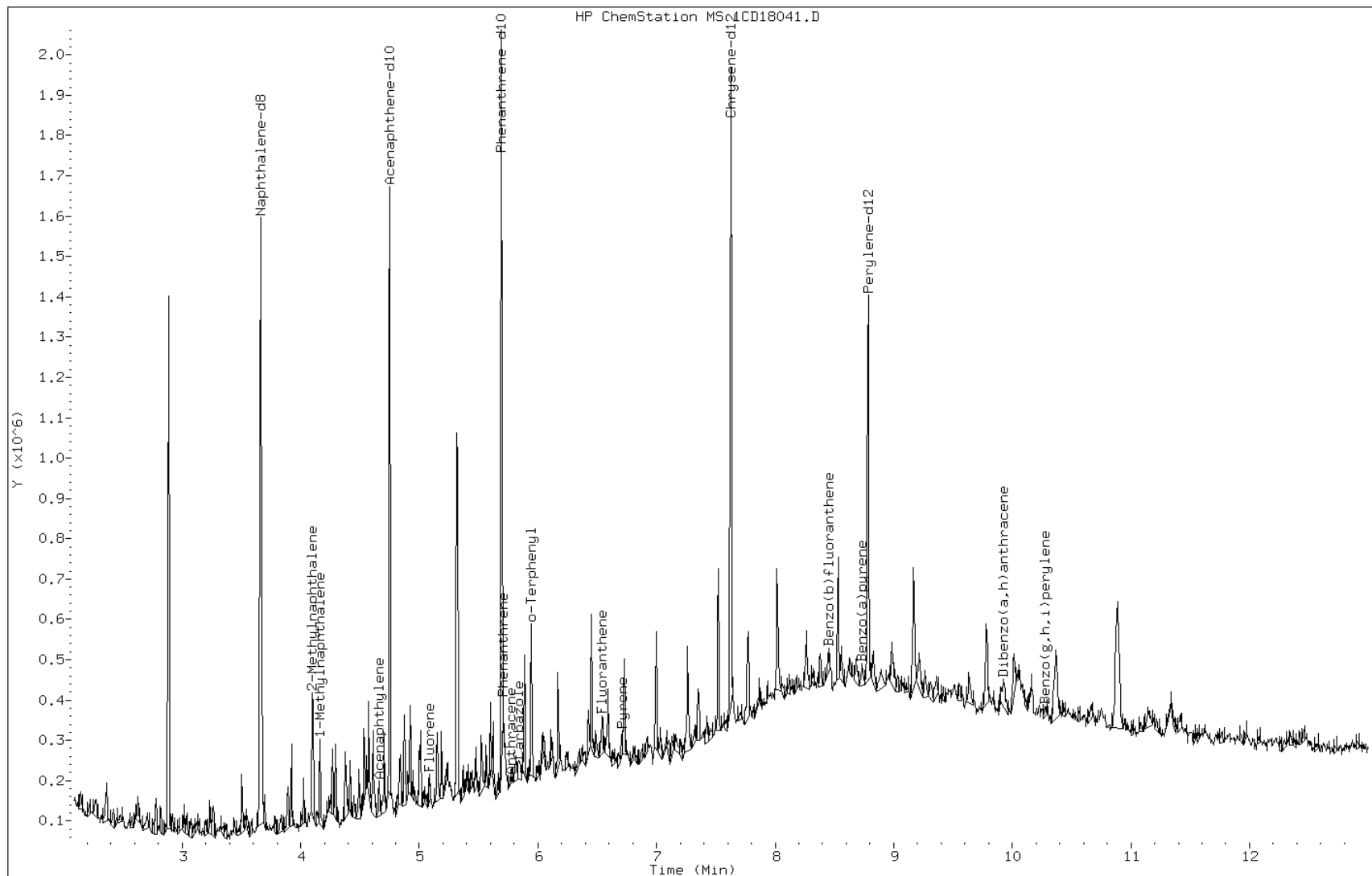
Date: 18-APR-2013 23:37

Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC





Data File: 1CD18041.D

Date: 18-APR-2013 23:37

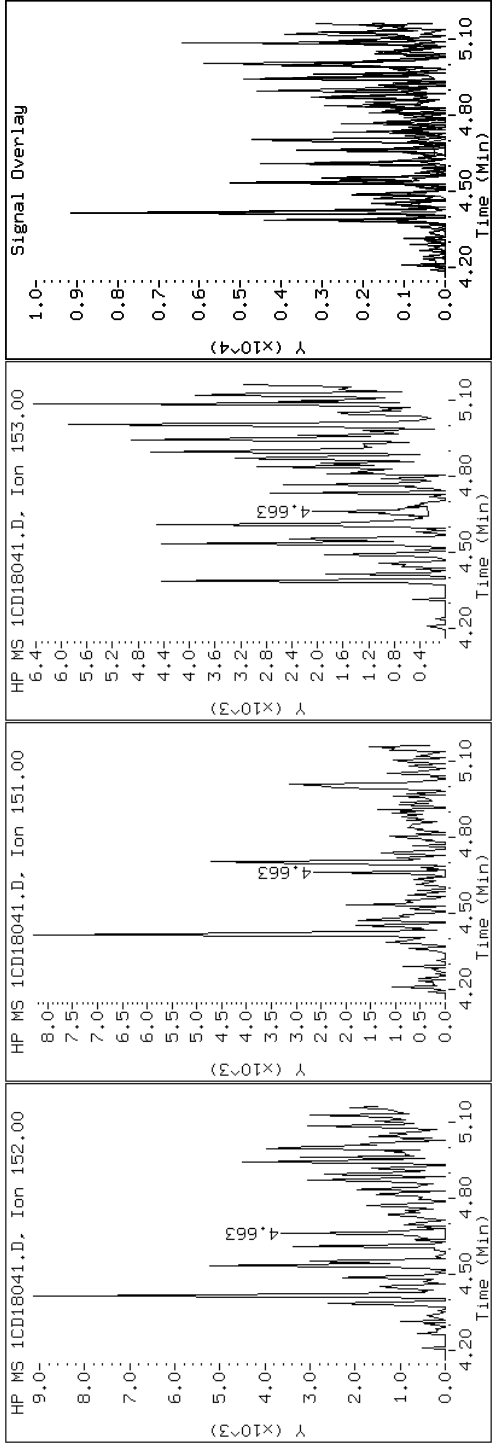
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

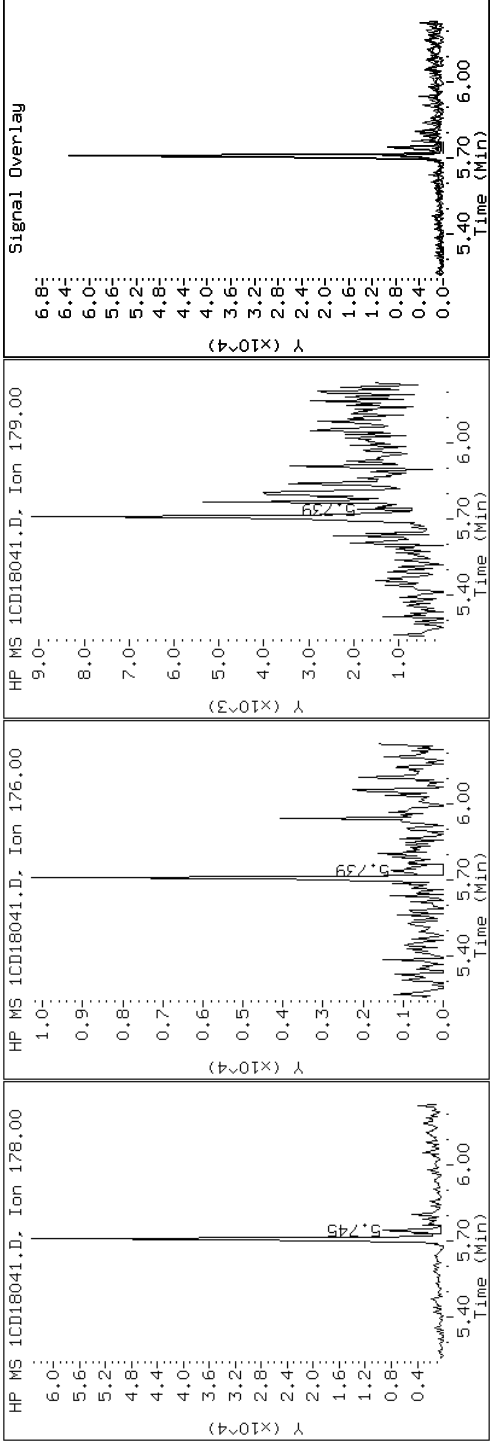
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

12 Anthracene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

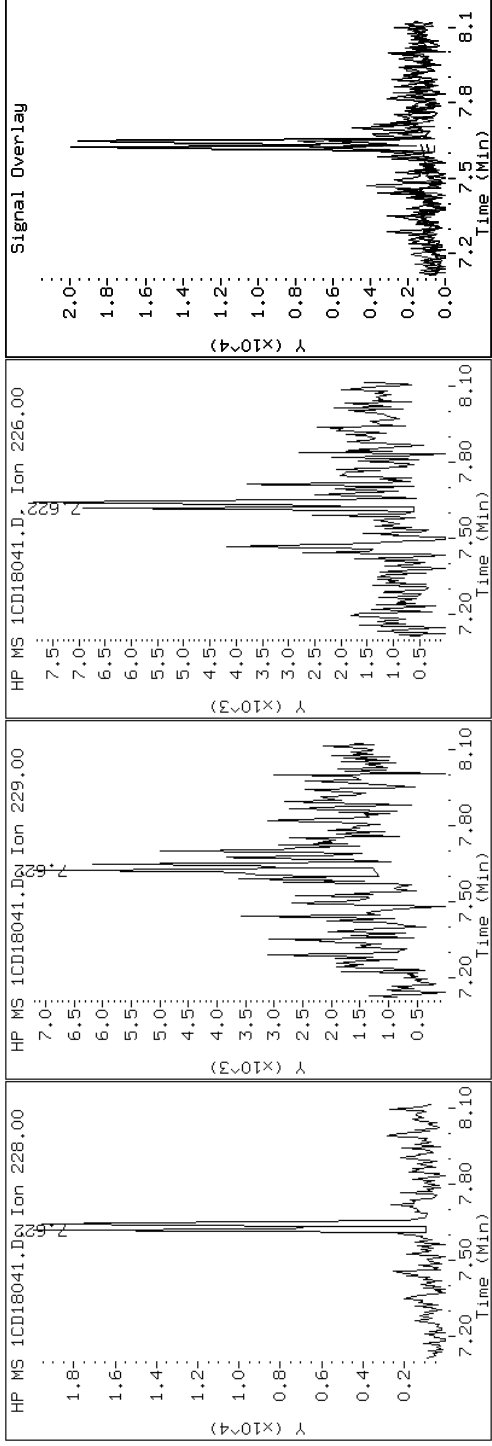
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

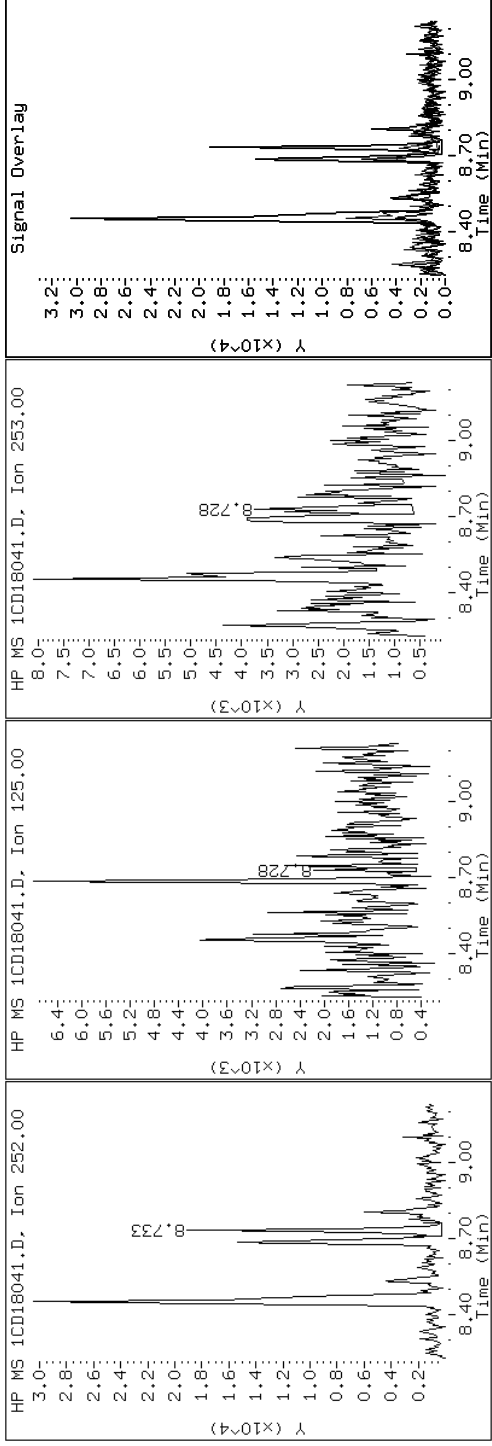
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

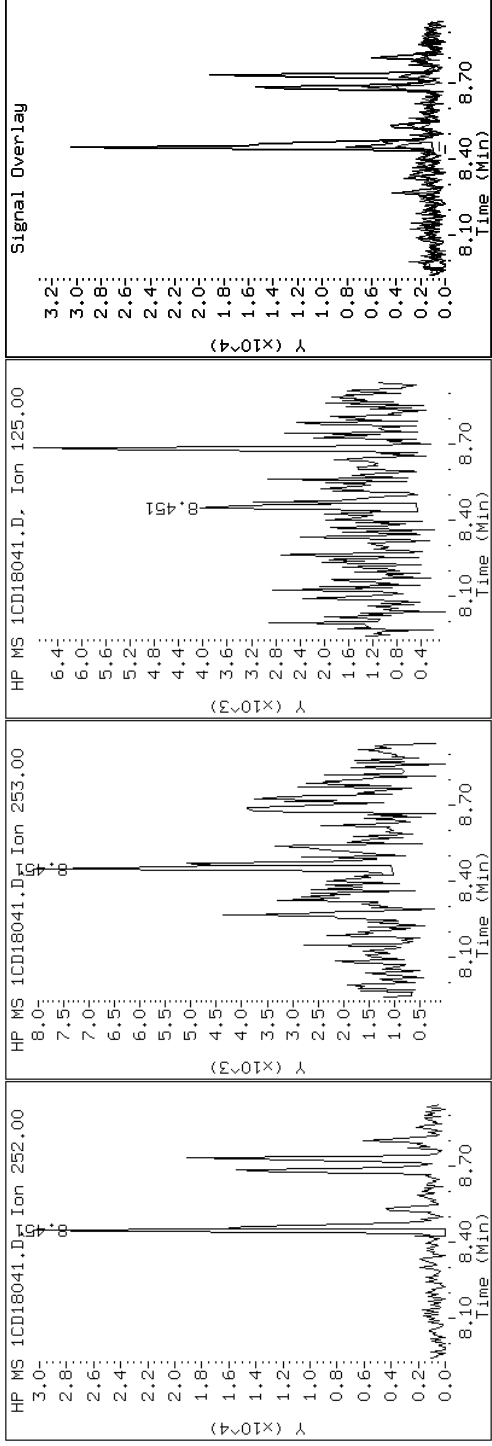
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

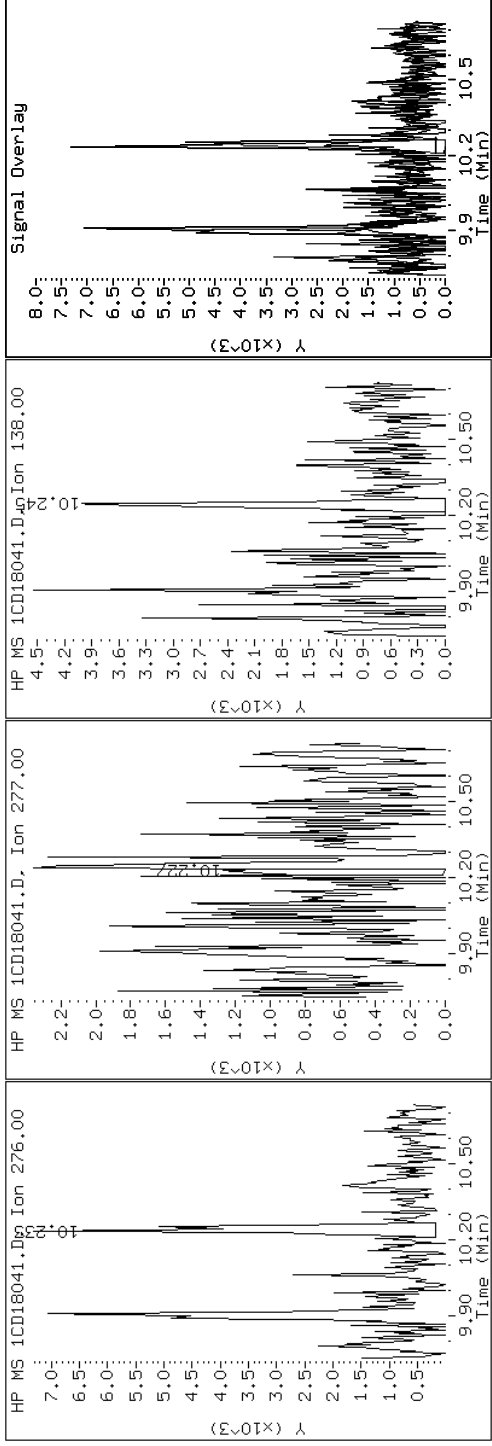
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

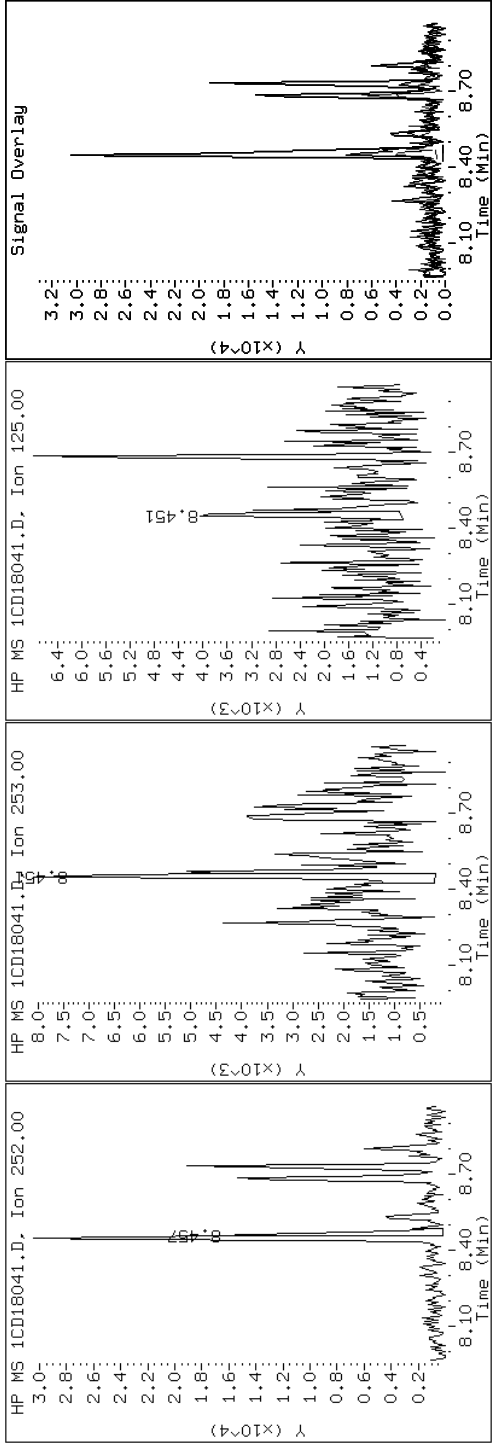
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

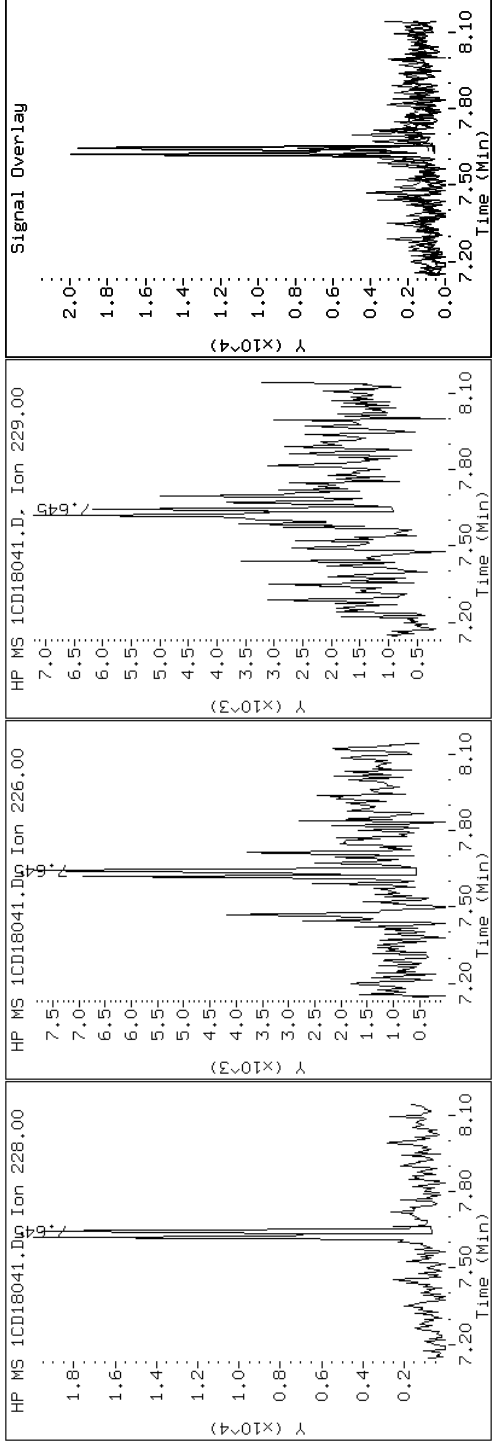
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

19 Chrysene





Data File: 1CD18041.D

Date: 18-APR-2013 23:37

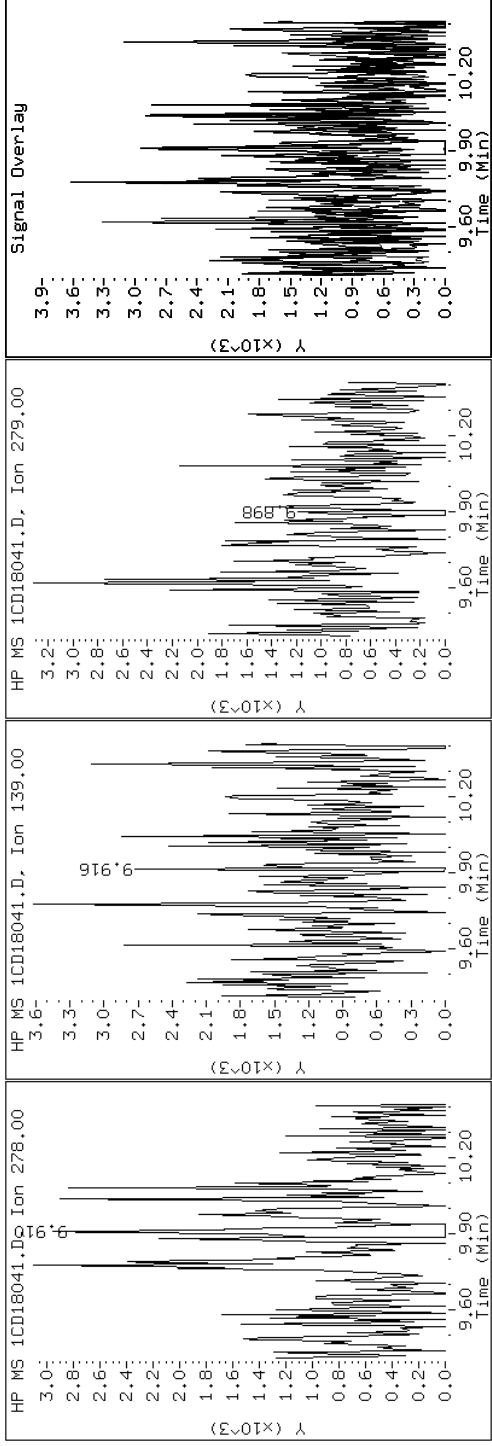
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

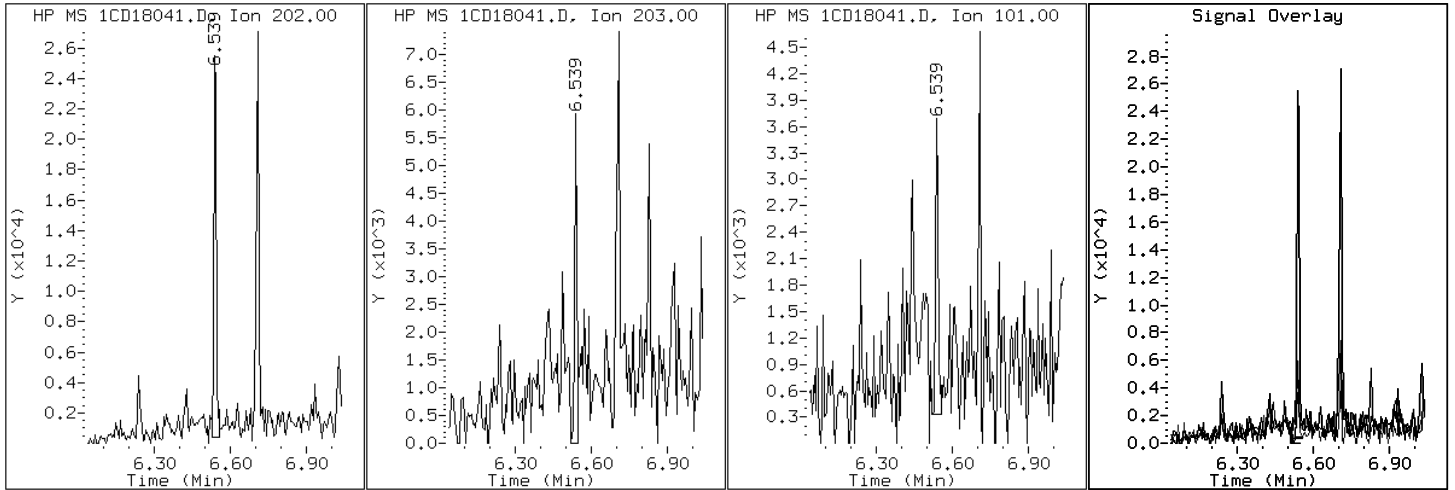
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

15 Fluoranthene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

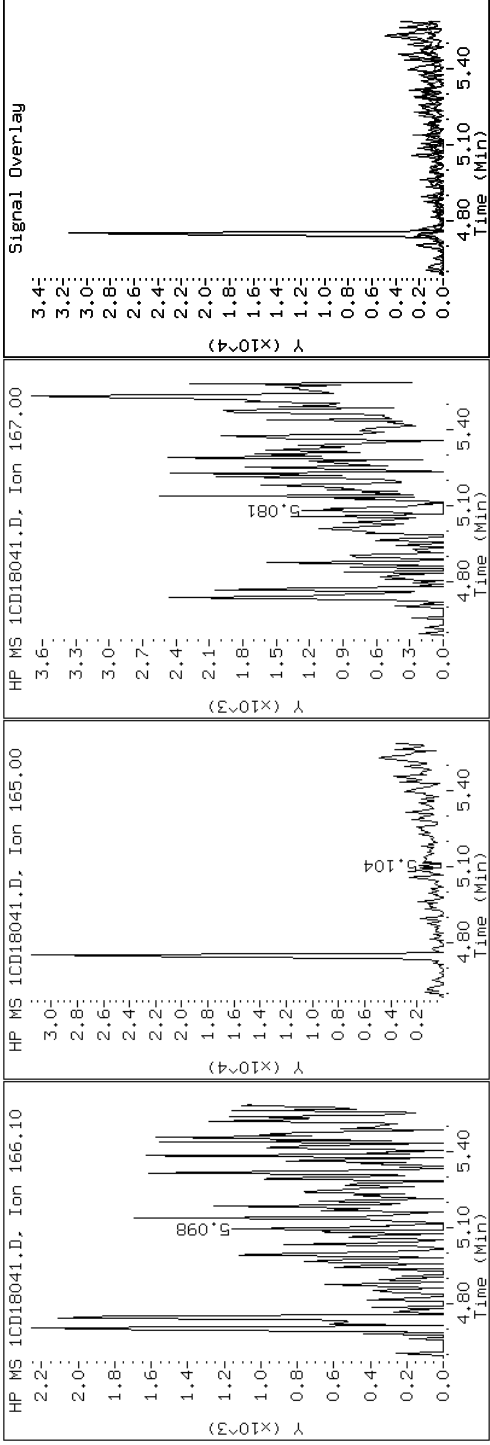
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

9 Fluorene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

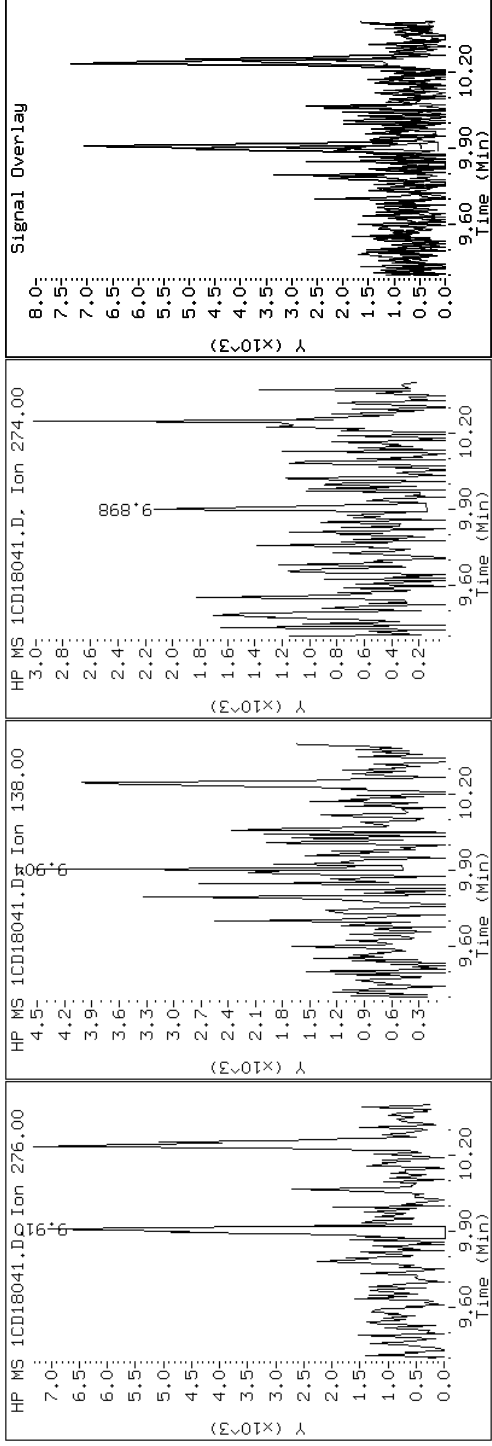
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

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



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

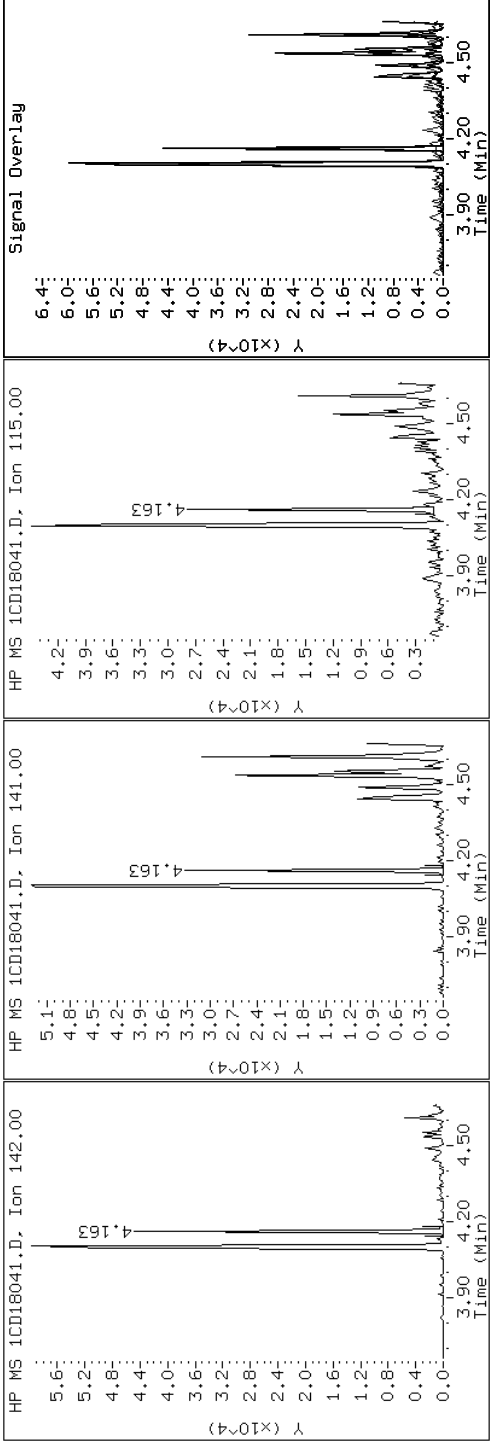
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

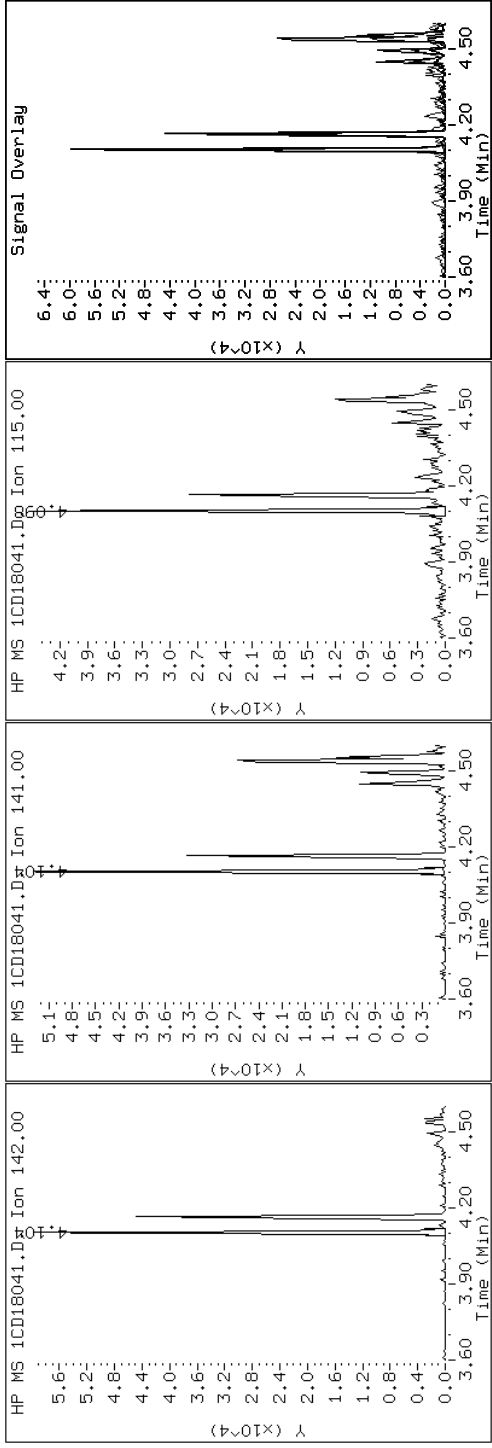
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

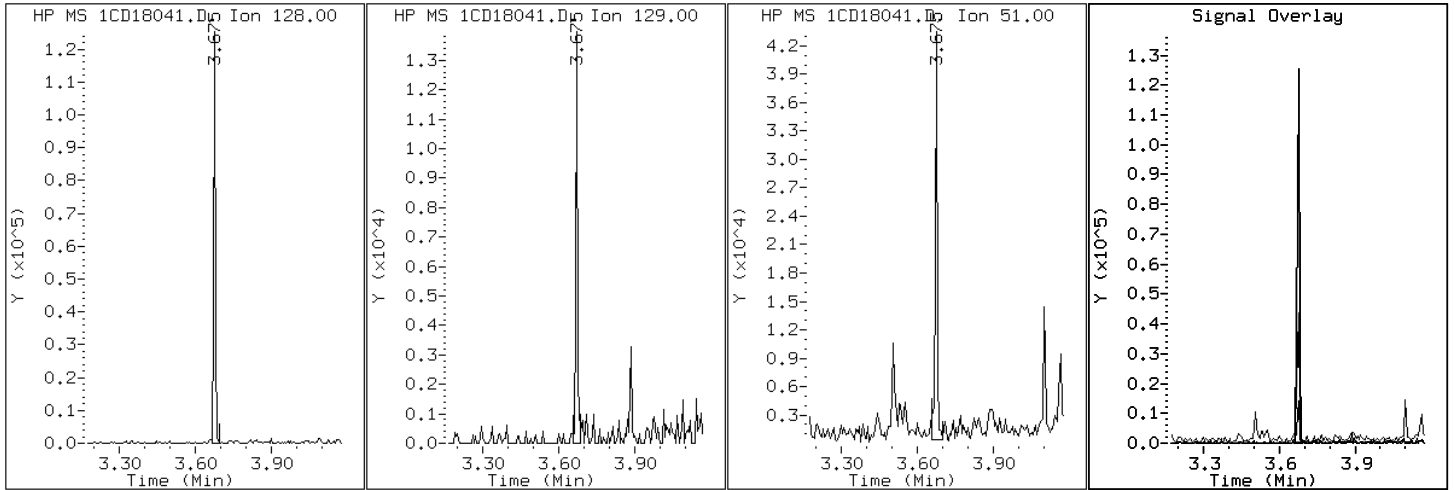
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

2 Naphthalene



Data File: 1CD18041.D

Date: 18-APR-2013 23:37

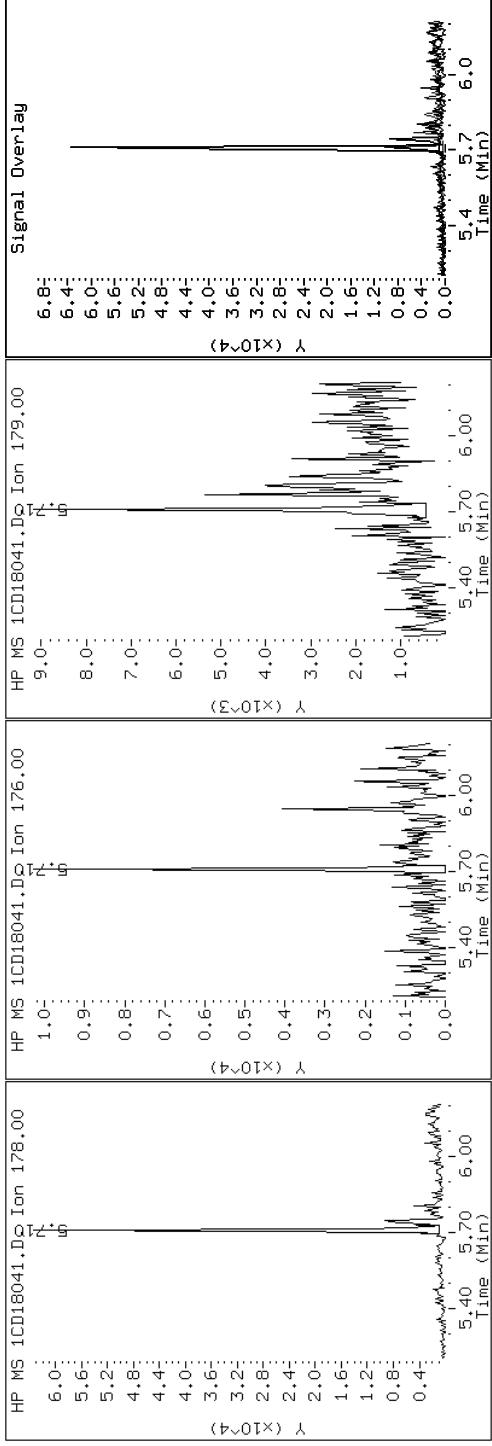
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

11 Phenanthrene





Data File: 1CD18041.D

Date: 18-APR-2013 23:37

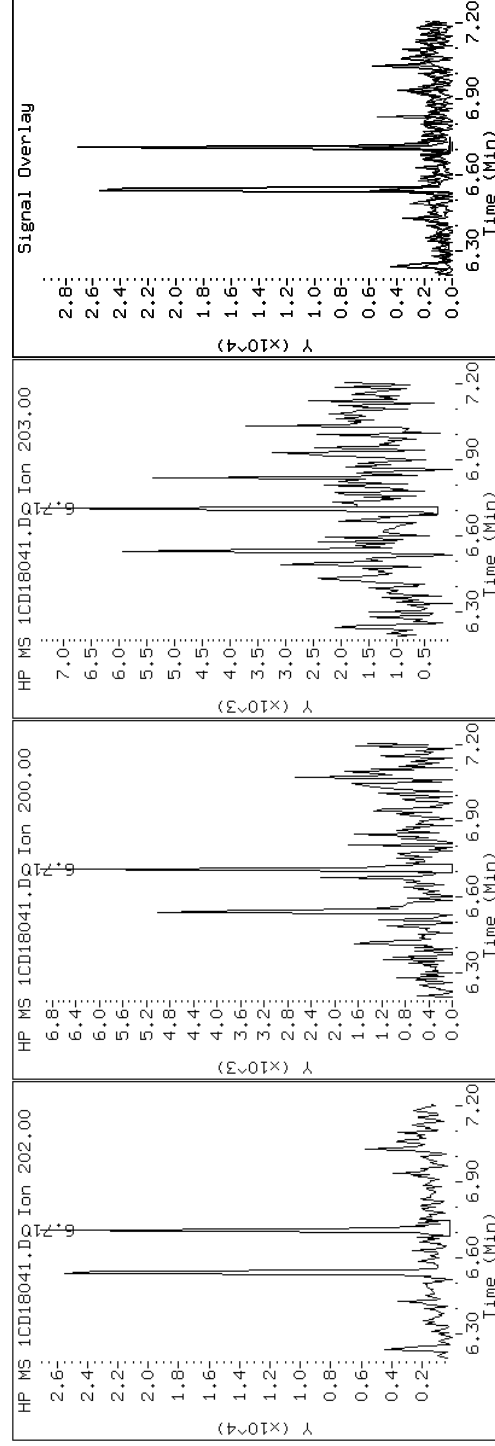
Client ID: HP0142A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89220-a-40-a

Operator: SCC

16 Pyrene

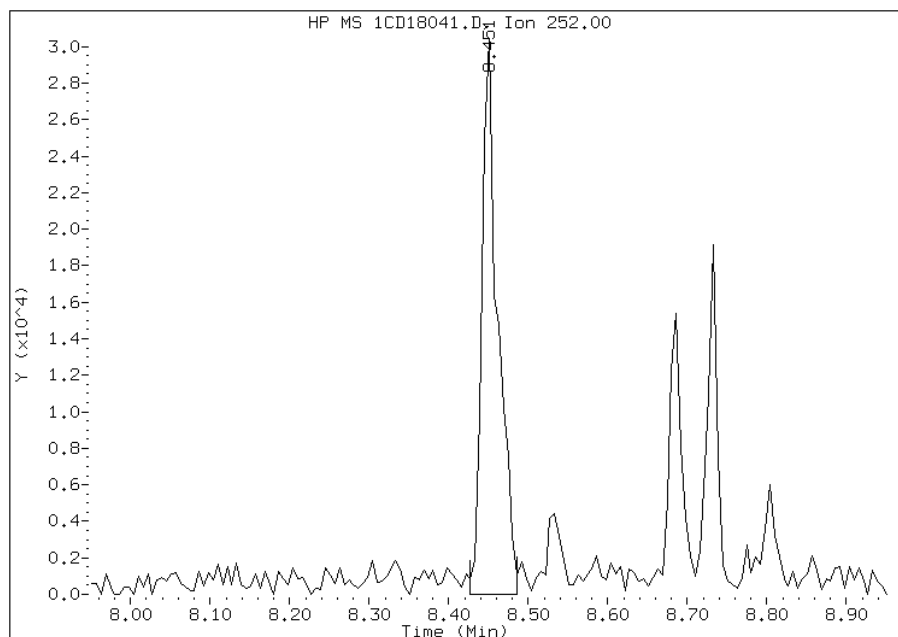


# Manual Integration Report

Data File: 1CD18041.D  
Inj. Date and Time: 18-APR-2013 23:37  
Instrument ID: BSMC5973.i  
Client ID: HP0142A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/19/2013

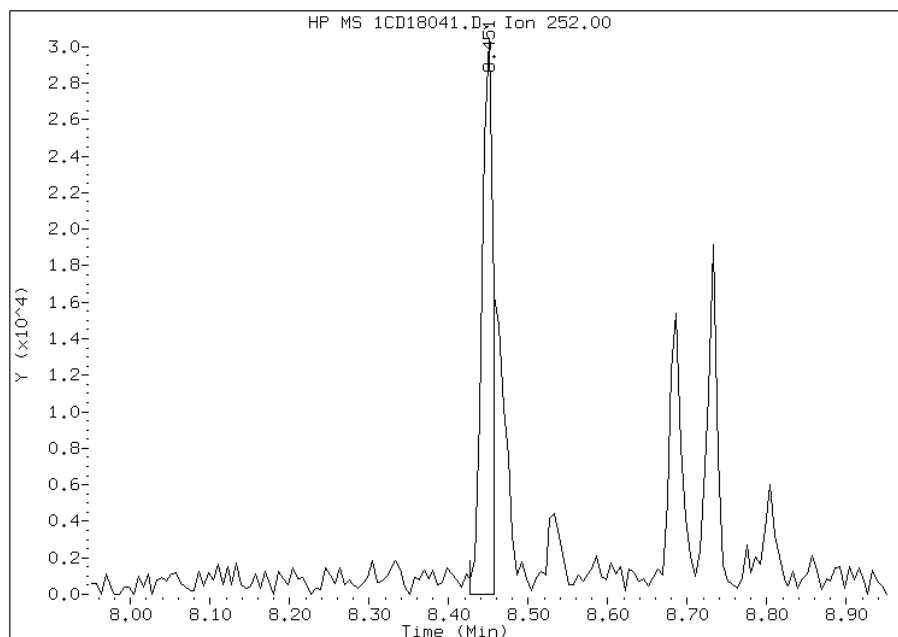
## Processing Integration Results

RT: 8.45  
Response: 42694  
Amount: 5  
Conc: 552



## Manual Integration Results

RT: 8.45  
Response: 29700  
Amount: 4  
Conc: 384



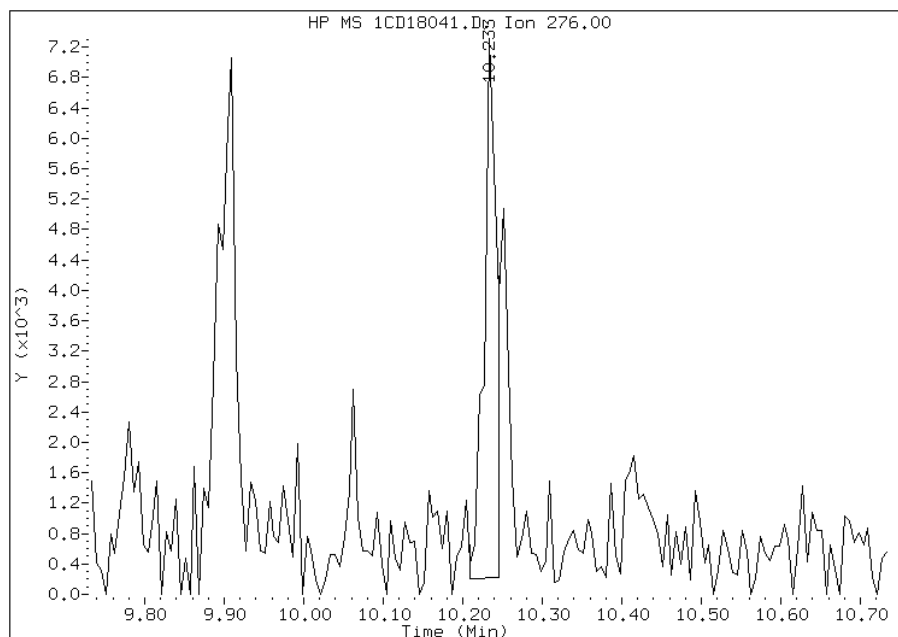
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:52  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD18041.D  
Inj. Date and Time: 18-APR-2013 23:37  
Instrument ID: BSMC5973.i  
Client ID: HP0142A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/19/2013

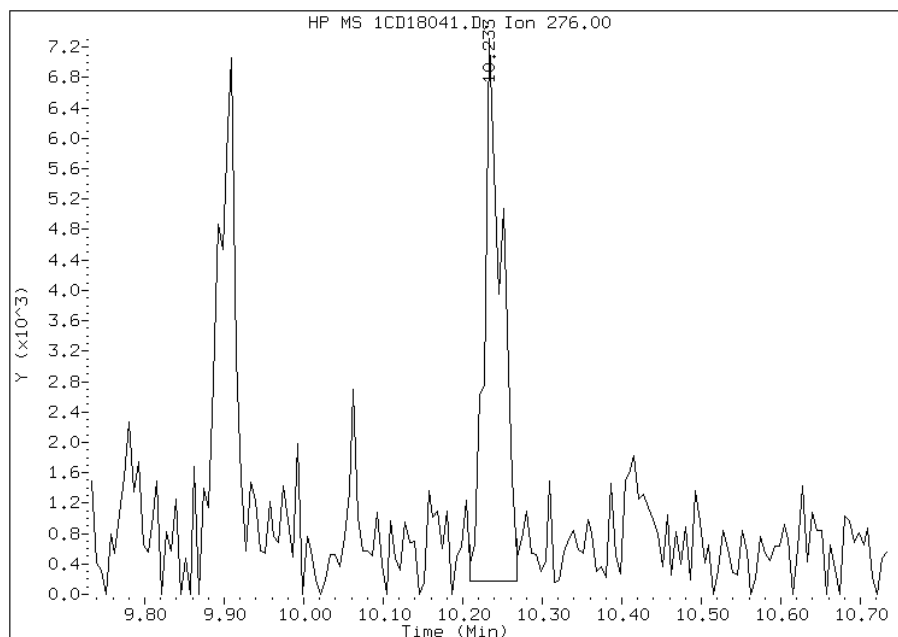
## Processing Integration Results

RT: 10.23  
Response: 7687  
Amount: 1  
Conc: 103



## Manual Integration Results

RT: 10.23  
Response: 11068  
Amount: 1  
Conc: 148



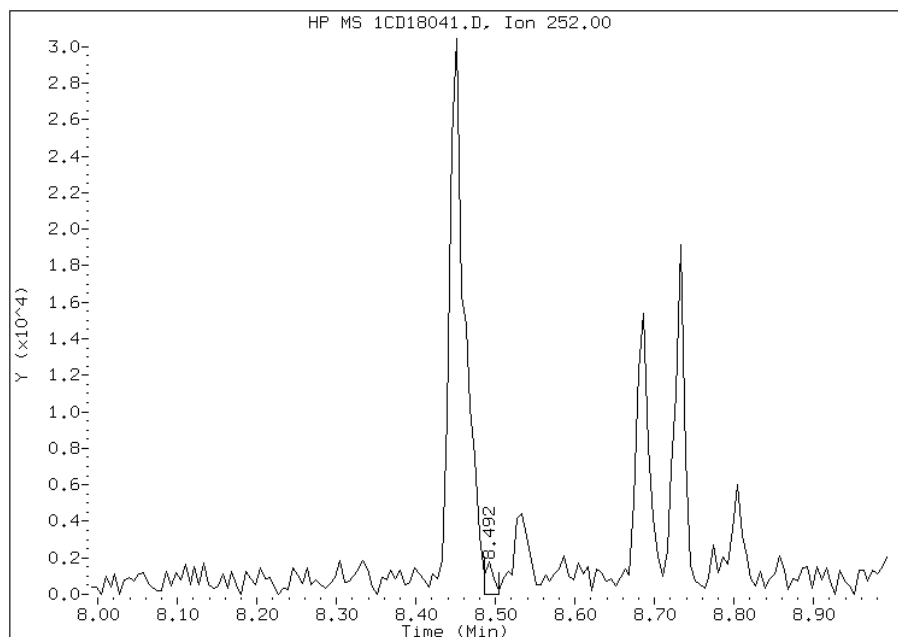
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:52  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18041.D  
Inj. Date and Time: 18-APR-2013 23:37  
Instrument ID: BSMC5973.i  
Client ID: HP0142A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/19/2013

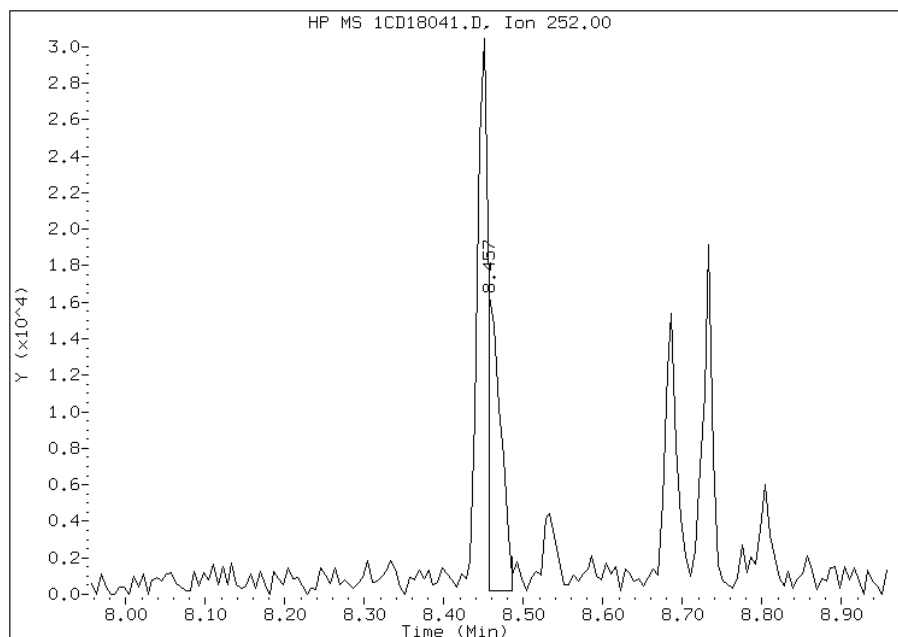
## Processing Integration Results

RT: 8.49  
Response: 1384  
Amount: 0  
Conc: 16



## Manual Integration Results

RT: 8.46  
Response: 18425  
Amount: 2  
Conc: 211



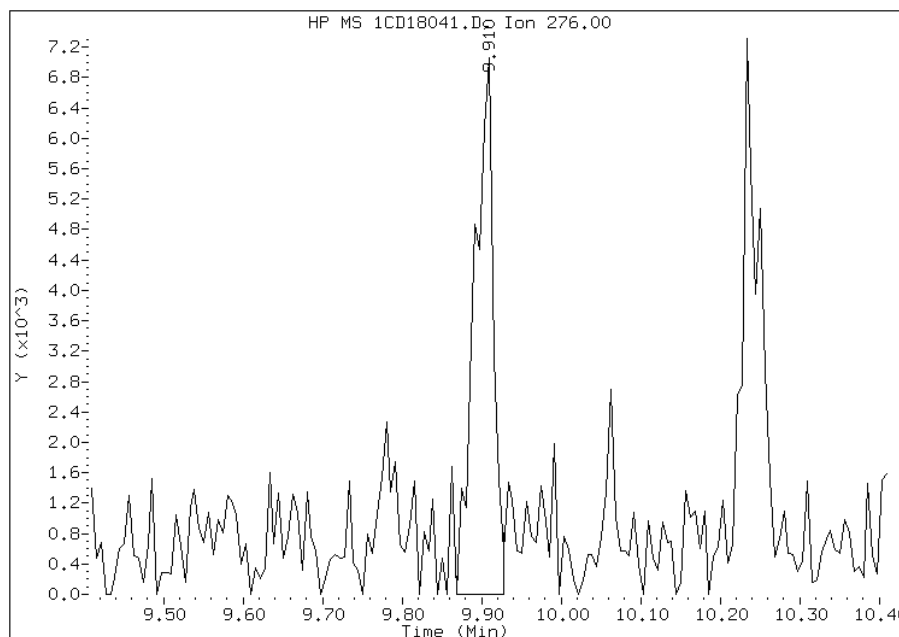
Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:52  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18041.D  
Inj. Date and Time: 18-APR-2013 23:37  
Instrument ID: BSMC5973.i  
Client ID: HP0142A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

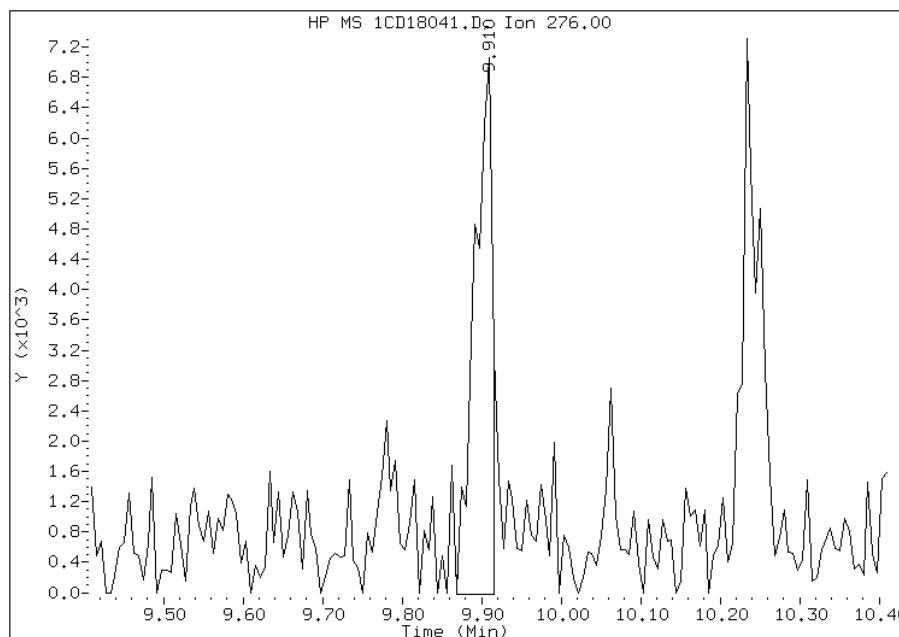
## Processing Integration Results

RT: 9.91  
Response: 11706  
Amount: 2  
Conc: 212



## Manual Integration Results

RT: 9.91  
Response: 11040  
Amount: 2  
Conc: 204



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 17:53  
Manual Integration Reason: Split Peak

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89220-2 Analy Batch No.: 136370

SDG No.: 68089220-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	1.0403 1.0845	1.1154 1.0398	1.1255	1.0833	1.0799	Ave		1.0813			0.0000	3.1		15.0			
2-Methylnaphthalene	0.4518 0.7139	0.7915 0.7215	0.6274	0.6964	0.7086	Lin	0.0068	0.7231			0.0000				0.9998		0.9900
1-Methylnaphthalene	0.8501 0.6677	0.6263 0.6578	0.7166	0.6190	0.6973	Ave		0.6907			0.0000	11.4		15.0			
Acenaphthylene	1.6419 1.8703	1.3506 1.6568	1.8874	1.7159	1.7417	Ave		1.6949			0.0000	10.6		15.0			
Acenaphthene	0.9825 1.0658	0.8838 1.0336	1.0463	1.1258	1.0124	Ave		1.0214			0.0000	7.4		15.0			
Fluorene	1.4896 1.3834	0.9662 1.2871	1.3197	1.3886	1.2644	Ave		1.2999			0.0000	12.7		15.0			
Phenanthrene	2.1565 1.1836	1.0586 1.1536	1.1958	1.1594	1.1404	Qua	0.0002	0.8500	0.0102		0.0000				0.9997		0.9900
Anthracene	1.0455 1.1188	1.2005 1.2175	1.1643	1.1719	1.2102	Ave		1.1612			0.0000	5.3		15.0			
Carbazole	1.3254 1.0648	0.9055 1.0829	1.1357	1.0658	0.9905	Ave		1.0815			0.0000	12.1		15.0			
Fluoranthene	1.1179 1.2730	1.3921 1.3602	1.2694	1.3341	1.3364	Ave		1.2976			0.0000	7.0		15.0			
Pyrene	1.2897 1.1555	0.9972 1.1333	1.1447	1.1276	1.1177	Ave		1.1380			0.0000	7.5		15.0			
Benzo[a]anthracene	1.8552 1.1480	1.4389 1.1253	1.1508	1.0977	1.1349	LinF		1.1311			0.0000				0.9998		0.9900
Chrysene	1.1739 1.1646	0.9735 1.1563	1.1877	1.0757	1.1010	Ave		1.1190			0.0000	6.8		15.0			
Benzo[b]fluoranthene	0.7438 1.0730	0.9477 1.0842	1.1078	1.0038	1.1118	Ave		1.0103			0.0000	13.0		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.: 680-89220-2 Analy Batch No.: 136370

SDG No.: 68089220-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.0957 1.1960	1.0347 1.3382	1.1426	1.1475	1.0478	Ave		1.1432			0.0000	9.0		15.0			
Benzo[a]pyrene	1.0857 1.0737	0.9221 1.1530	1.0427	1.0583	0.9747	Ave		1.0443			0.0000	7.2		15.0			
Indeno[1,2,3-cd]pyrene	1.4093 0.9346	0.8576 1.0494	0.9853	0.8955	1.0192	Lin	0.0160	1.0375			0.0000				0.9958		0.9900
Dibenz(a,h)anthracene	1.3482 0.9834	0.8948 1.0265	0.9138	0.9357	0.9949	Lin	0.0112	1.0243			0.0000				0.9993		0.9900
Benzo[g,h,i]perylene	0.7587 0.9881	1.0764 1.0165	0.9898	1.0387	0.9838	Ave		0.9789			0.0000	10.5		15.0			
o-Terphenyl	0.2006 0.5933	0.7698 0.6744	0.6516	0.6045	0.6070	Lin	0.0172	0.6624			0.0000				0.9945		0.9900

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.: 680-89220-2 Analy Batch No.: 136370

SDG No.: 68089220-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	1285 178326	6408 318955	33340	66803	132678	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	558 117387	4547 221322	18585	42945	87061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1050 109784	3598 201768	21228	38170	85663	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	1337 212811	5176 370532	39114	69442	156488	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	800 121274	3387 231163	21682	45560	90964	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	1213 157410	3703 287857	27348	56195	113606	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	3451 259782	7274 472306	47149	85752	182675	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1673 245548	8249 498469	45907	86681	193854	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2121 233698	6222 443362	44777	78836	158666	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1789 279401	9565 556889	50052	98679	214080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2372 307735	8697 619923	55349	104590	229647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	3412 305726	12549 615507	55643	101817	233188	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	2159 310162	8490 632502	57430	99776	226221	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1499 299492	9159 576085	56470	93677	243941	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2208 333825	10000 711099	58242	107089	229890	0.200 30.0	1.00 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.: 680-89220-2 Analy Batch No.: 136370

SDG No.: 68089220-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	2188 299708	8912 612644	53152	98767	213852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	2840 260884	8288 557635	50225	83577	223617	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin	2717 274497	8648 545458	46577	87325	218275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	1529 275805	10403 540151	50451	96936	215845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	321 130217	5289 276100	25692	44711	97236	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD  
Lin = Linear ISTD  
LinF = Linear ISTD forced zero  
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 11-APR-2013 11:56  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 3 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	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	3.675	3.675	(1.000)	245713	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	179699	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	320372	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	97236	20.0000	19.0180
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	410945	40.0000	
* 23 Perylene-d12	264	8.804	8.804	(1.000)	438804	40.0000	
2 Naphthalene	128	3.686	3.686	(1.003)	132678	20.0000	19.9755
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	87061	20.0000	21.0586
4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	85663	20.0000	20.1908
5 Acenaphthylene	152	4.674	4.674	(0.981)	156488	20.0000	20.5512
7 Acenaphthene	154	4.780	4.780	(1.004)	90964	20.0000	19.3885
9 Fluorene	166	5.104	5.104	(1.072)	113606	20.0000	19.4543
11 Phenanthrene	178	5.721	5.721	(1.003)	182675	20.0000	17.6453
12 Anthracene	178	5.757	5.757	(1.009)	193854	20.0000	20.8428
13 Carbazole	167	5.863	5.863	(1.028)	158666	20.0000	18.3169
15 Fluoranthene	202	6.557	6.557	(1.150)	214080	20.0000	20.5986
16 Pyrene	202	6.721	6.721	(0.879)	229647	20.0000	19.6431
17 Benzo(a)anthracene	228	7.633	7.633	(0.998)	233188	20.0000	20.0156
19 Chrysene	228	7.663	7.663	(1.002)	226221	20.0000	19.6785
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	243941	20.0000	22.0102
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	229890	20.0000	18.3309
22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	213852	20.0000	18.6665
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	223617	20.0000	19.9538(M)
25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130)	218275	20.0000	19.6244
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	215845	20.0000	20.1007

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11003.D

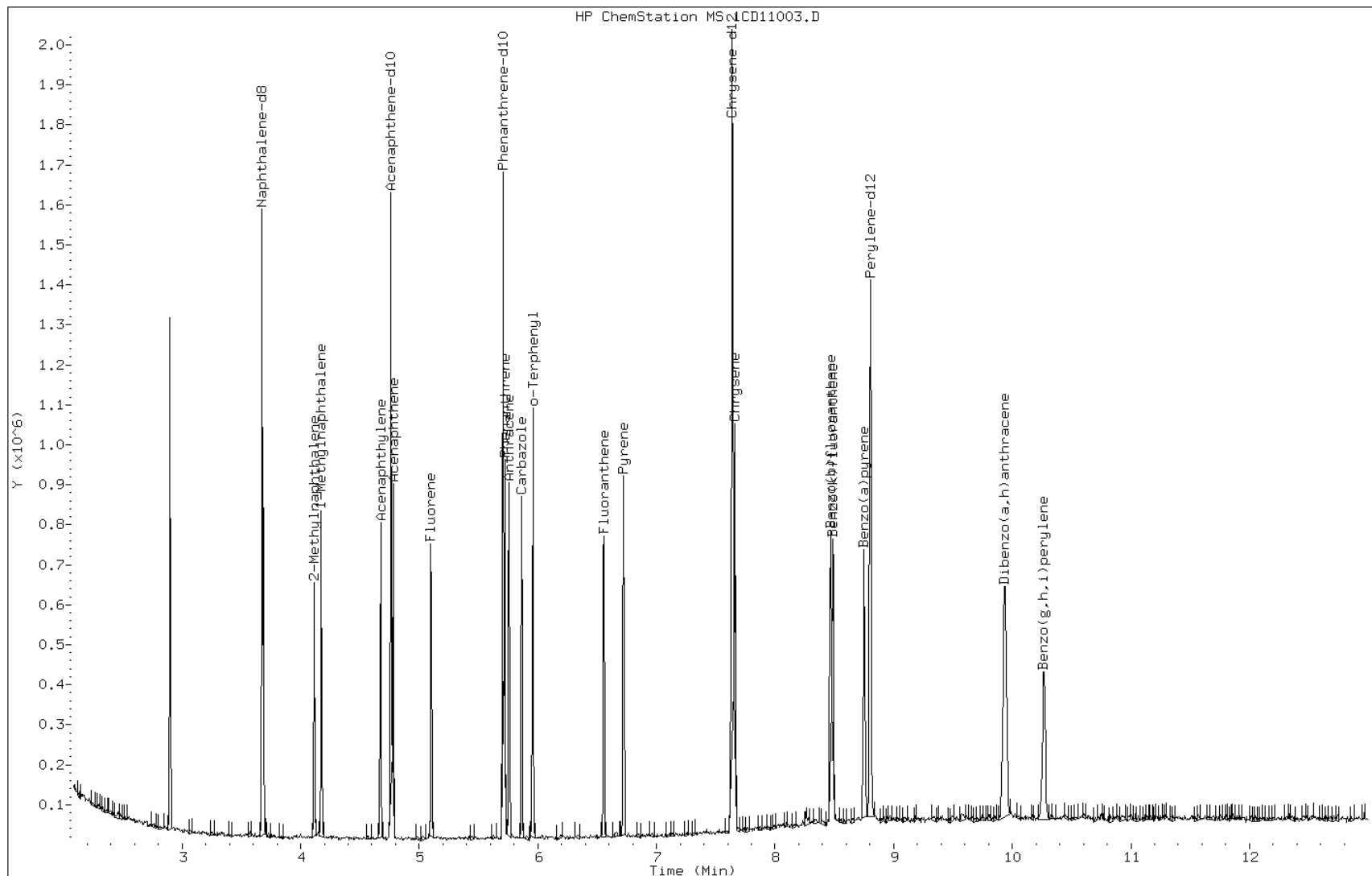
Date: 11-APR-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC

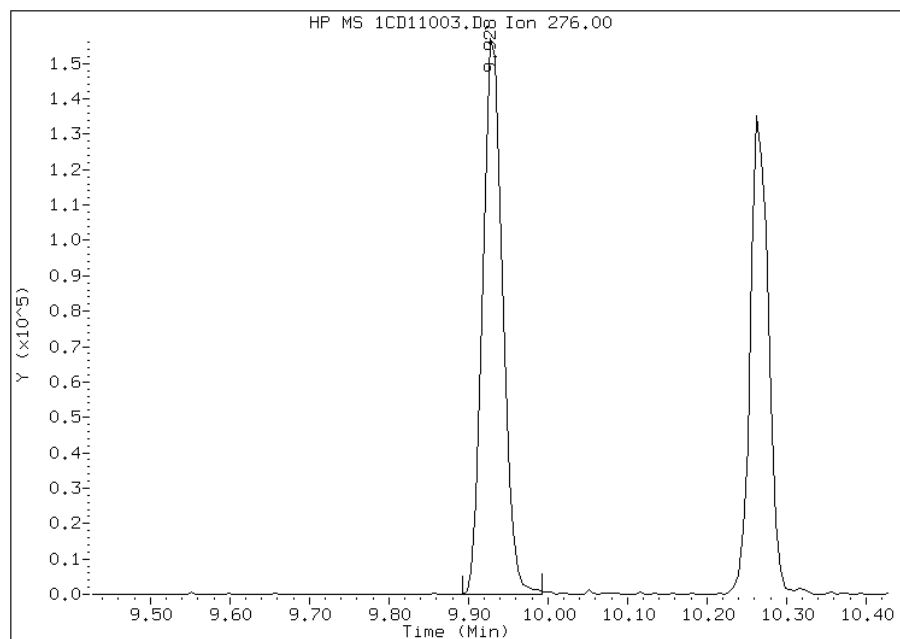


# Manual Integration Report

Data File: 1CD11003.D  
Inj. Date and Time: 11-APR-2013 11:56  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/11/2013

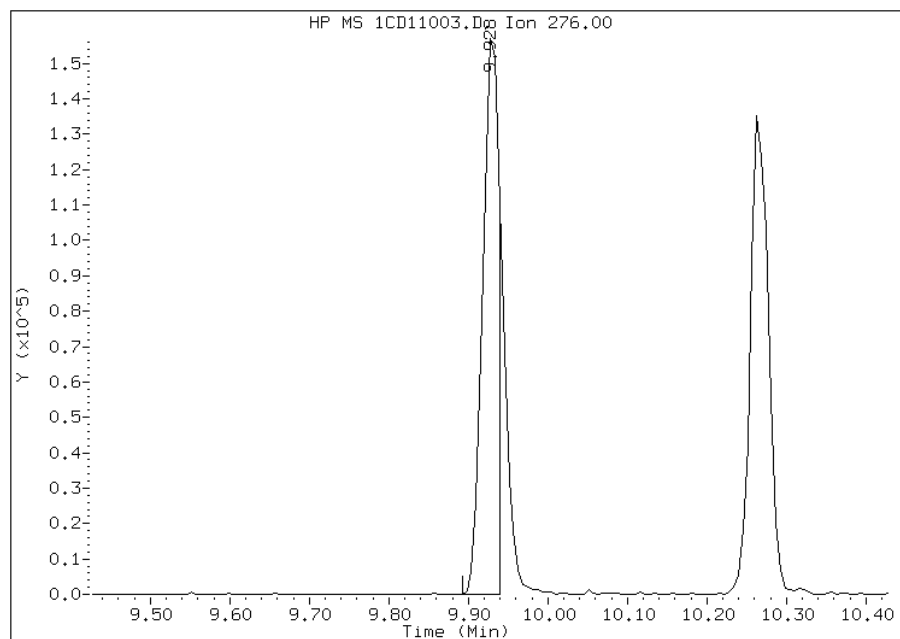
## Processing Integration Results

RT: 9.93  
Response: 271031  
Amount: 23  
Conc: 23



## Manual Integration Results

RT: 9.93  
Response: 223617  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 12:40  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11004.D  
 Lab Smp Id: IC-1531396  
 Inj Date : 11-APR-2013 12:35  
 Operator : SCC  
 Smp Info : IC-1531396  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 11:56 Cal File: 1CD11003.D  
 Als bottle: 4 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	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.674	3.674	(1.000)	247033	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	162858	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	320053	40.0000	(H)
\$ 14 o-Terphenyl	230		5.980	5.980	(1.045)	321	0.20000	0.7502(Q)
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	367836	40.0000	
* 23 Perylene-d12	264		8.827	8.827	(1.000)	403046	40.0000	
2 Naphthalene	128		3.686	3.686	(1.003)	1285	0.20000	0.1924(Q)
3 2-Methylnaphthalene	142		4.116	4.116	(1.120)	558	0.20000	0.1342(Q)
4 1-Methylnaphthalene	142		4.180	4.180	(1.138)	1050	0.20000	0.2461(Q)
5 Acenaphthylene	152		4.680	4.680	(0.983)	1337	0.20000	0.1937
7 Acenaphthene	154		4.786	4.786	(1.005)	800	0.20000	0.0720
9 Fluorene	166		5.110	5.110	(1.073)	1213	0.20000	0.2291
11 Phenanthrene	178		5.733	5.733	(1.002)	3451	0.20000	0.3336
12 Anthracene	178		5.768	5.768	(1.008)	1673	0.20000	0.1800(H)
13 Carbazole	167		5.880	5.880	(1.028)	2121	0.20000	0.2450
15 Fluoranthene	202		6.562	6.562	(1.147)	1789	0.20000	0.1723
16 Pyrene	202		6.733	6.733	(0.879)	2372	0.20000	0.2266
17 Benzo(a)anthracene	228		7.651	7.651	(0.999)	3412	0.20000	0.2031
19 Chrysene	228		7.674	7.674	(1.002)	2159	0.20000	0.2098
20 Benzo(b)fluoranthene	252		8.498	8.498	(0.963)	1499	0.20000	0.1472
21 Benzo(k)fluoranthene	252		8.509	8.509	(0.964)	2208	0.20000	0.1916
22 Benzo(a)pyrene	252		8.774	8.774	(0.994)	2188	0.20000	0.2079
24 Indeno(1,2,3-cd)pyrene	276		9.956	9.956	(1.128)	2840	0.20000	0.2759
25 Dibenzo(a,h)anthracene	278		9.980	9.980	(1.131)	2717	0.20000	0.2659
26 Benzo(g,h,i)perylene	276		10.286	10.286	(1.165)	1529	0.20000	0.1550(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: 1CD11004.D

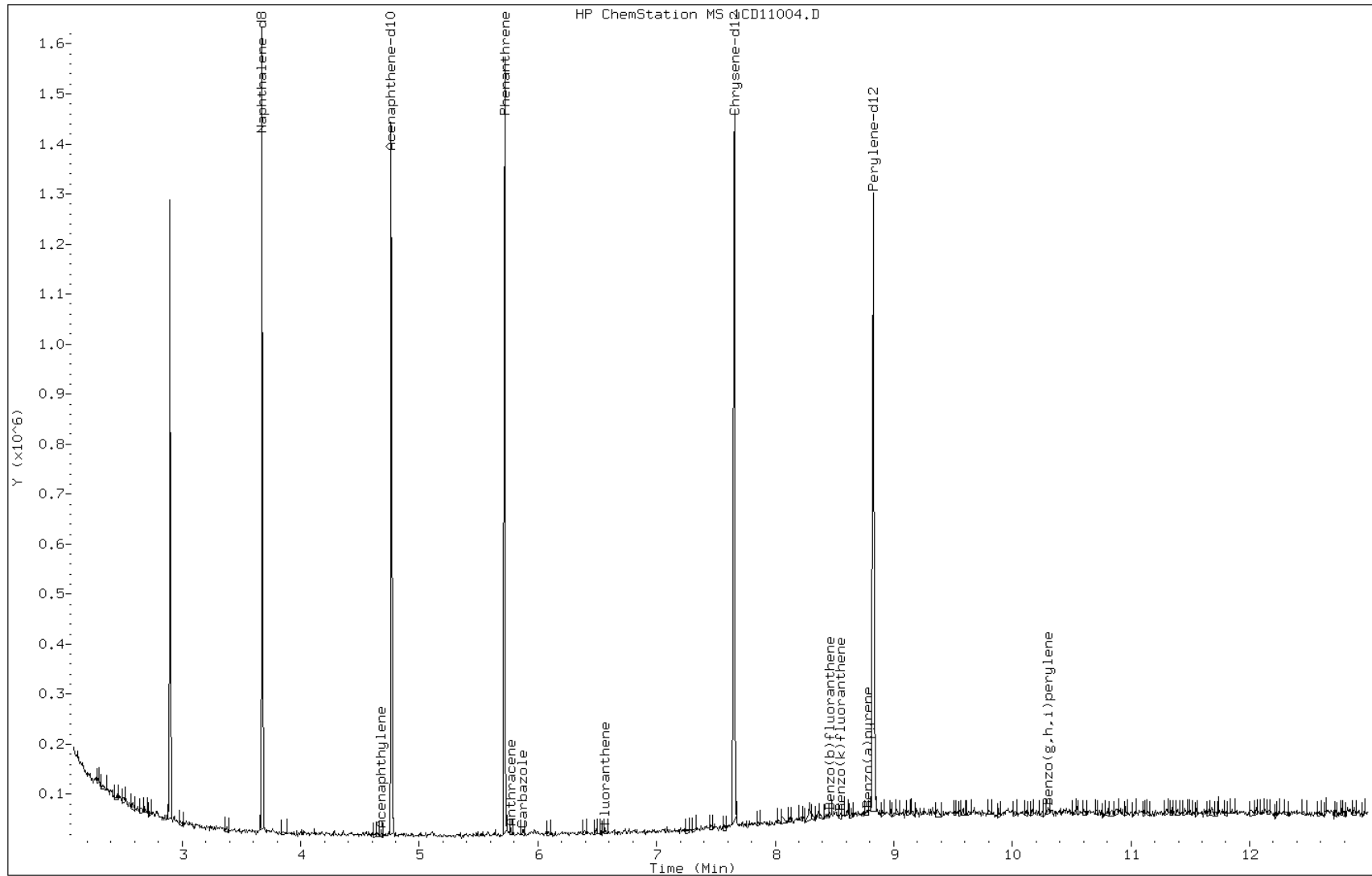
Date: 11-APR-2013 12:35

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531396

Operator: SCC

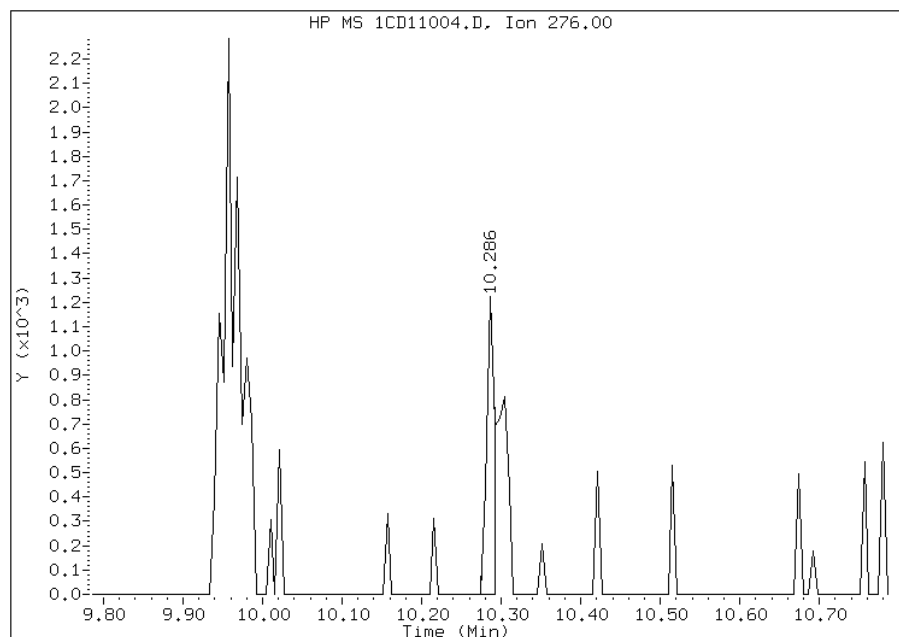


# Manual Integration Report

Data File: 1CD11004.D  
Inj. Date and Time: 11-APR-2013 12:35  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/11/2013

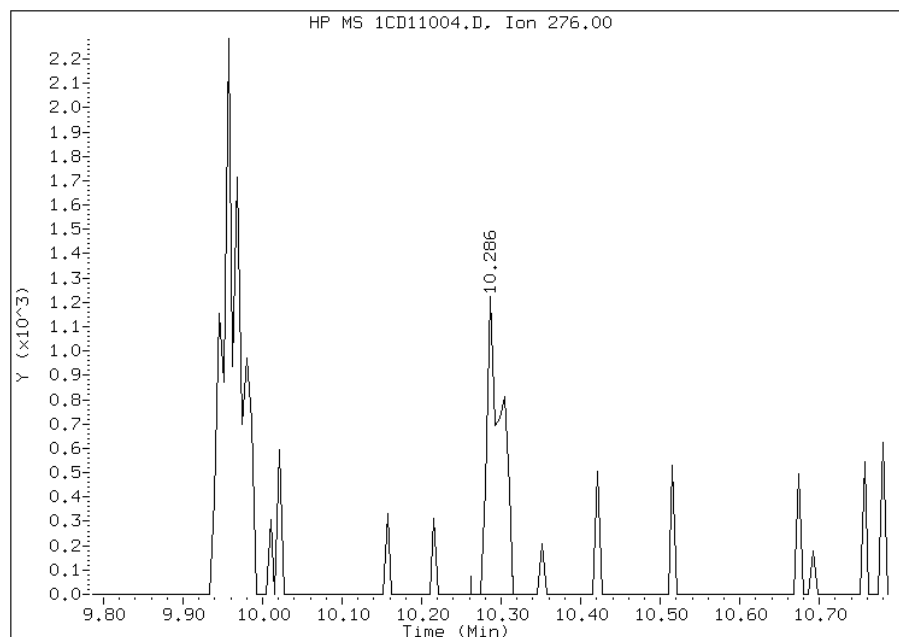
## Processing Integration Results

RT: 10.29  
Response: 832  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.29  
Response: 1529  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:33  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11005.D  
 Lab Smp Id: IC-1531398  
 Inj Date : 11-APR-2013 12:53  
 Operator : SCC  
 Smp Info : IC-1531398  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 12:35 Cal File: 1CD11004.D  
 Als bottle: 5 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	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	229800	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	153294	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	274841	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	5289	1.00000	1.8517(Q)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	348851	40.0000	
* 23 Perylene-d12	264	8.803	8.803	(1.000)	386589	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	6408	1.00000	1.0315(Q)
3 2-Methylnaphthalene	142	4.110	4.110	(1.118)	4547	1.00000	1.1760(Q)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	3598	1.00000	0.9067
5 Acenaphthylene	152	4.674	4.674	(0.981)	5176	1.00000	0.7968
7 Acenaphthene	154	4.780	4.780	(1.004)	3387	1.00000	0.7341
9 Fluorene	166	5.104	5.104	(1.072)	3703	1.00000	0.7433(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	7274	1.00000	0.8190(H)
12 Anthracene	178	5.757	5.757	(1.009)	8249	1.00000	1.0338
13 Carbazole	167	5.862	5.862	(1.028)	6222	1.00000	0.8372
15 Fluoranthene	202	6.556	6.556	(1.150)	9565	1.00000	1.0728
16 Pyrene	202	6.721	6.721	(0.880)	8697	1.00000	0.8763
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	12549	1.00000	1.1507
19 Chrysene	228	7.656	7.656	(1.002)	8490	1.00000	0.8699
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	9159	1.00000	0.9380(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	10000	1.00000	0.9050(H)
22 Benzo(a)pyrene	252	8.750	8.750	(0.994)	8912	1.00000	0.8829(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.127)	8288	1.00000	0.8394(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.129)	8648	1.00000	0.8825(MH)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	10403	1.00000	1.0996

QC Flag Legend

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



Data File: 1CD11005.D

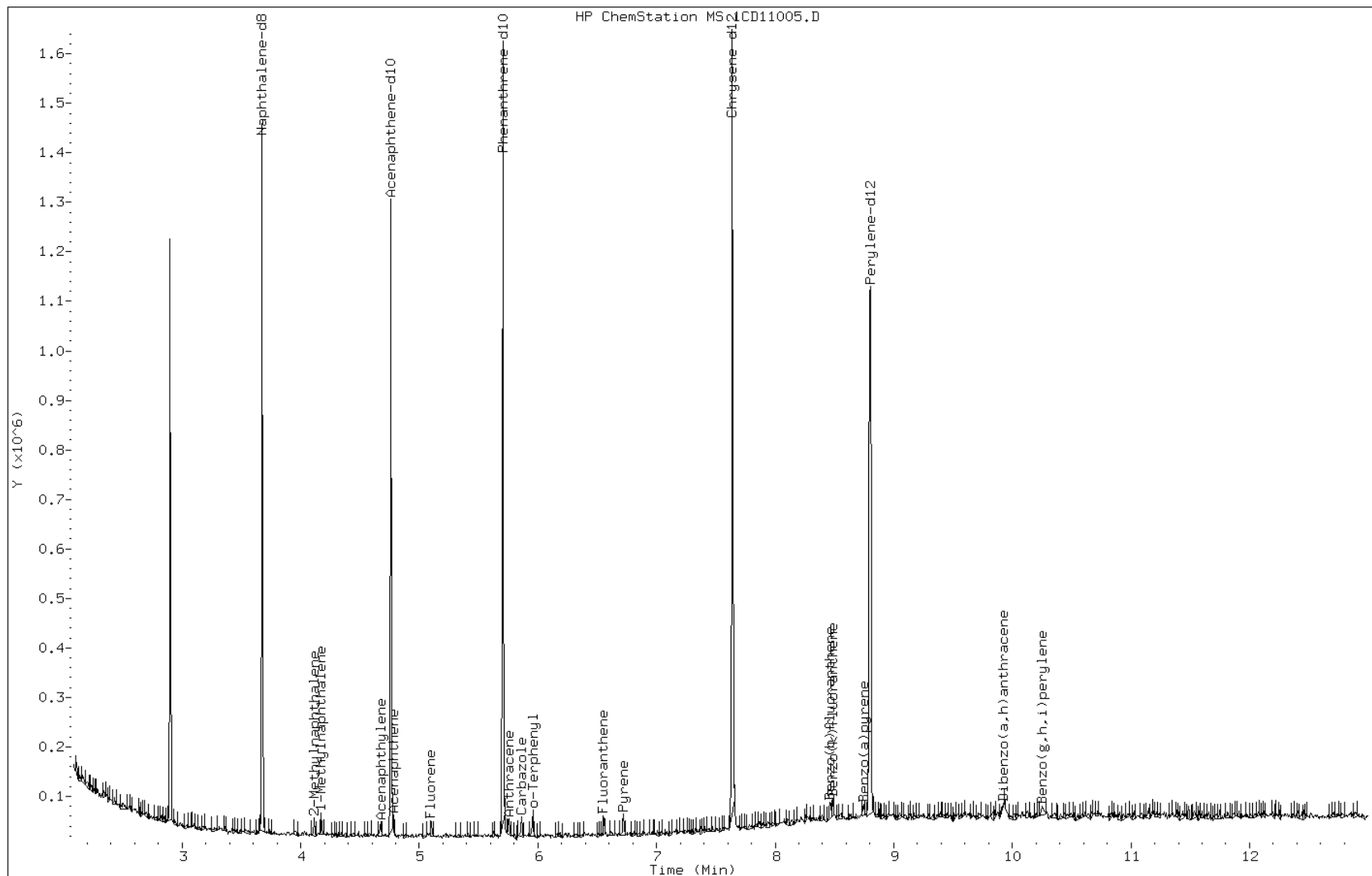
Date: 11-APR-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531398

Operator: SCC

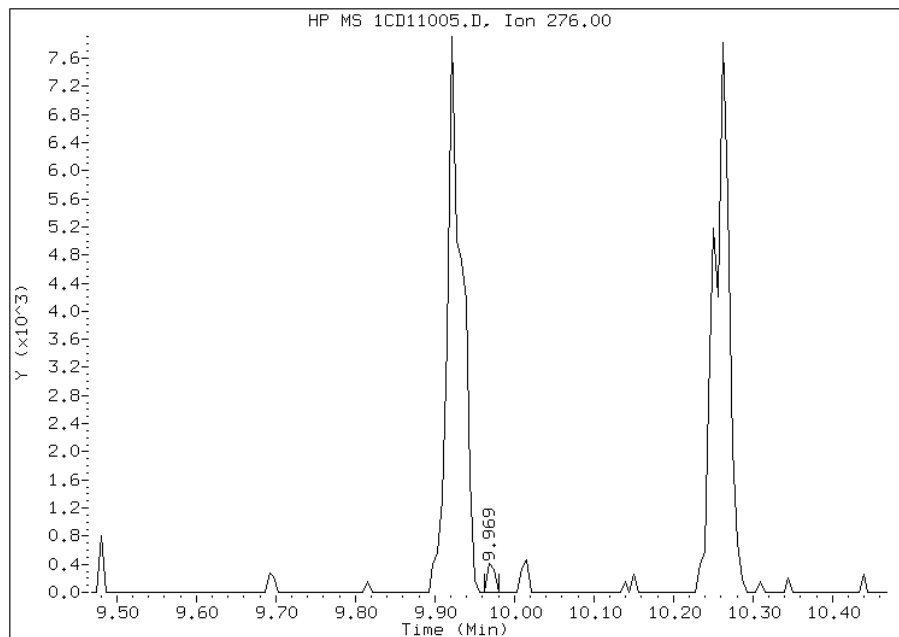


# Manual Integration Report

Data File: 1CD11005.D  
Inj. Date and Time: 11-APR-2013 12:53  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/11/2013

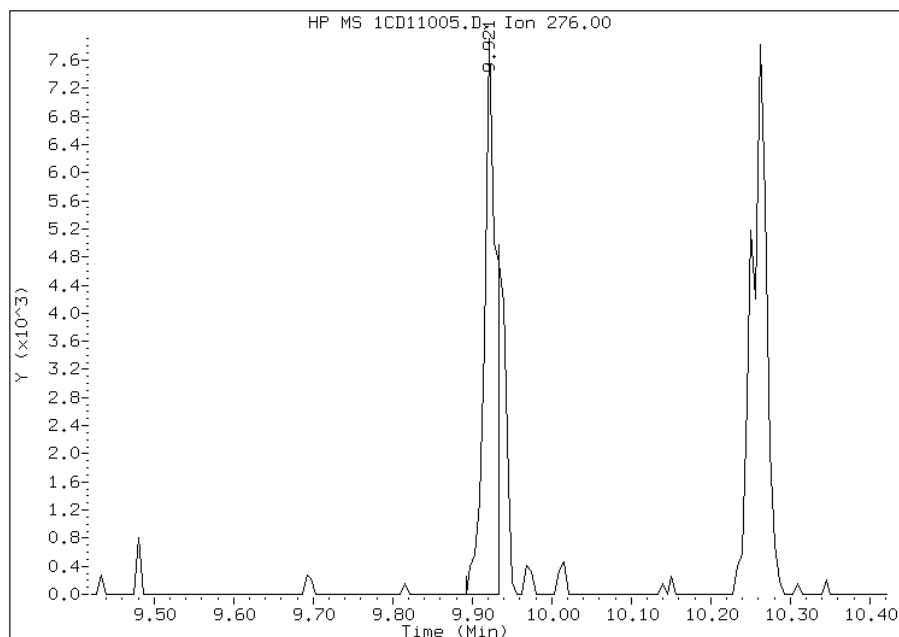
## Processing Integration Results

RT: 9.97  
Response: 260  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 9.92  
Response: 8288  
Amount: 1  
Conc: 1



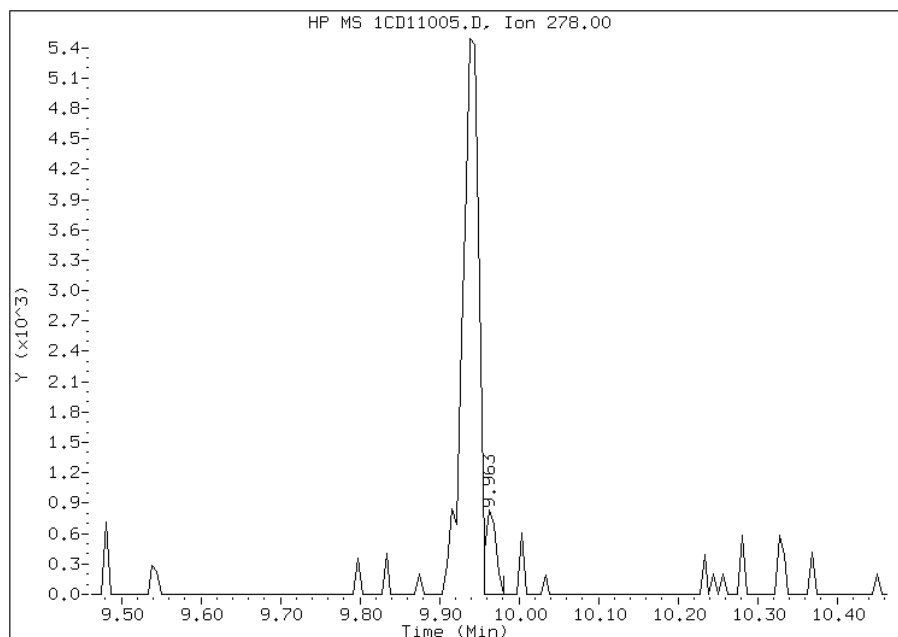
Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:34  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD11005.D  
Inj. Date and Time: 11-APR-2013 12:53  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/11/2013

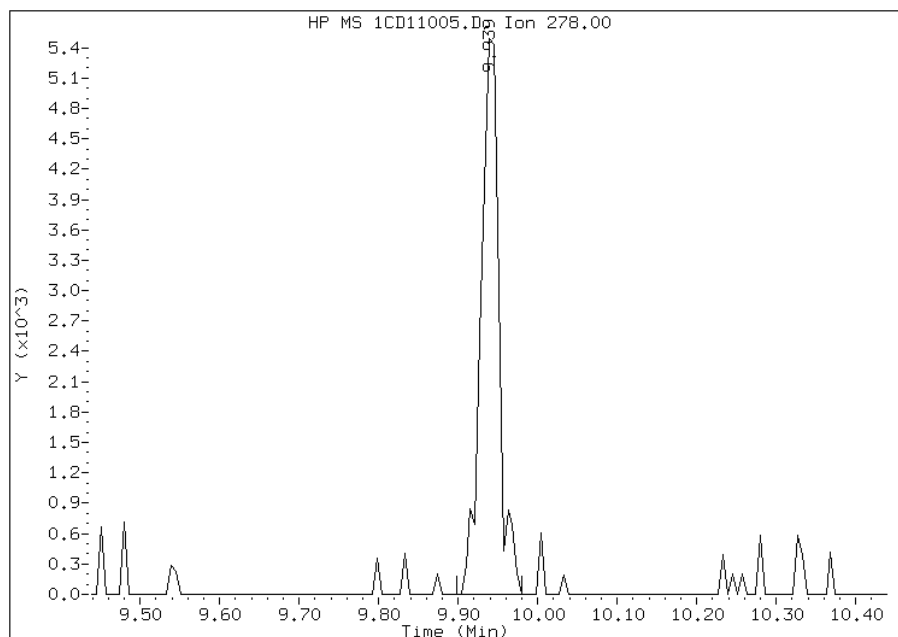
## Processing Integration Results

RT: 9.96  
Response: 764  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 9.94  
Response: 8648  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:33  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11006.D  
 Lab Smp Id: IC-1531399  
 Inj Date : 11-APR-2013 13:11  
 Operator : SCC  
 Smp Info : IC-1531399  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 12:53 Cal File: 1CD11005.D  
 Als bottle: 6 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	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	3.675	3.675	(1.000)	236973	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	165788	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	315427	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	25692	5.00000	5.6083
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	386829	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	407786	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	33340	5.00000	5.2046
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	18585	5.00000	4.6612
4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	21228	5.00000	5.1880
5 Acenaphthylene	152	4.674	4.674	(0.981)	39114	5.00000	5.5677
7 Acenaphthene	154	4.780	4.780	(1.004)	21682	5.00000	4.9222
9 Fluorene	166	5.098	5.098	(1.070)	27348	5.00000	5.0761(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	47149	5.00000	4.6257(H)
12 Anthracene	178	5.757	5.757	(1.009)	45907	5.00000	5.0132
13 Carbazole	167	5.863	5.863	(1.028)	44777	5.00000	5.2502
15 Fluoranthene	202	6.551	6.551	(1.148)	50052	5.00000	4.8914
16 Pyrene	202	6.721	6.721	(0.880)	55349	5.00000	5.0294
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	55643	5.00000	4.9797
19 Chrysene	228	7.657	7.657	(1.002)	57430	5.00000	5.3071
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	56470	5.00000	5.4827(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	58242	5.00000	4.9973(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	53152	5.00000	4.9924(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.128)	50225	5.00000	4.8225(MH)
25 Dibenzo(a,h)anthracene	278	9.927	9.927	(1.128)	46577	5.00000	4.5061(H)
26 Benzo(g,h,i)perylene	276	10.251	10.251	(1.165)	50451	5.00000	5.0556(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: 1CD11006.D

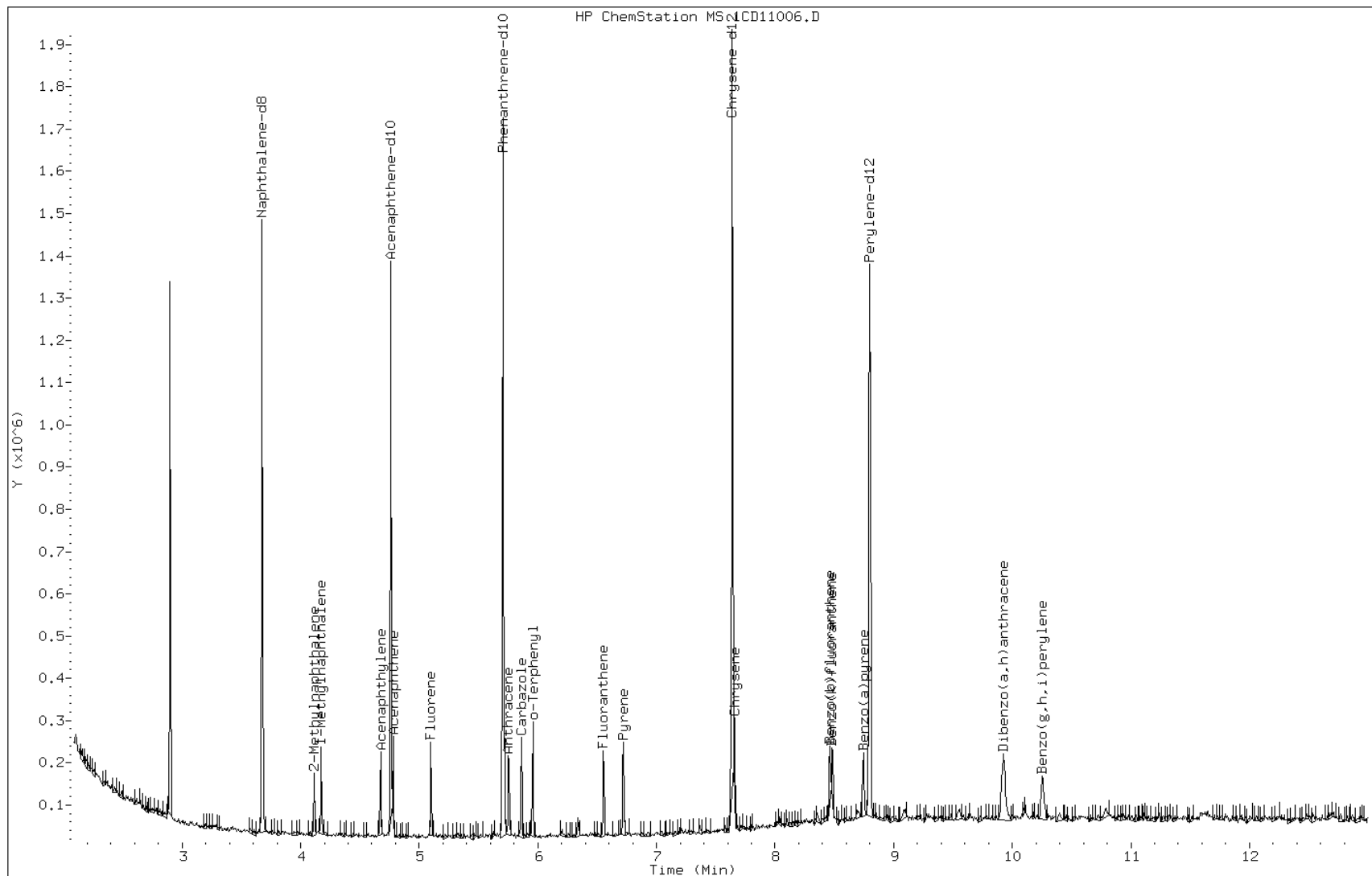
Date: 11-APR-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC

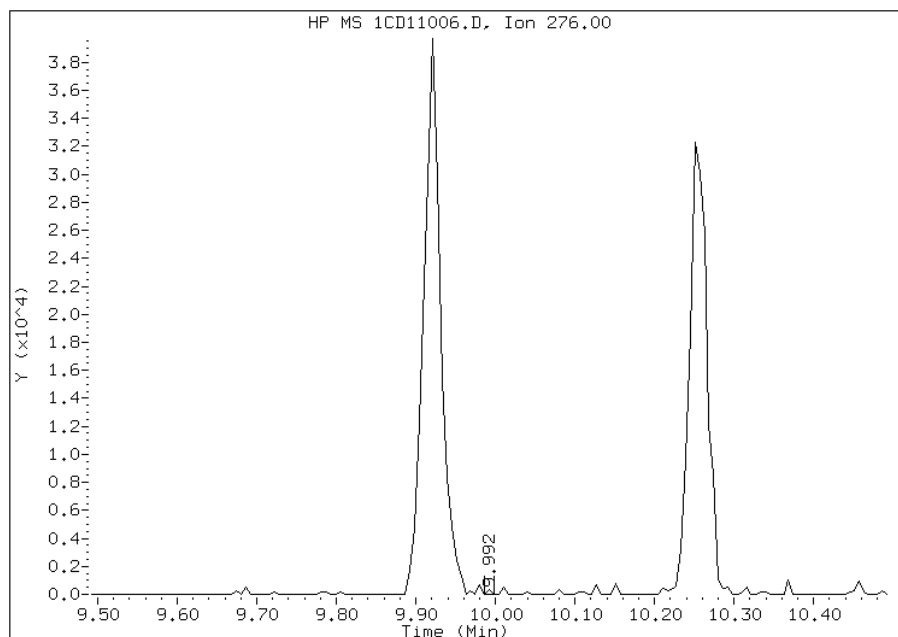


# Manual Integration Report

Data File: 1CD11006.D  
Inj. Date and Time: 11-APR-2013 13:11  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/11/2013

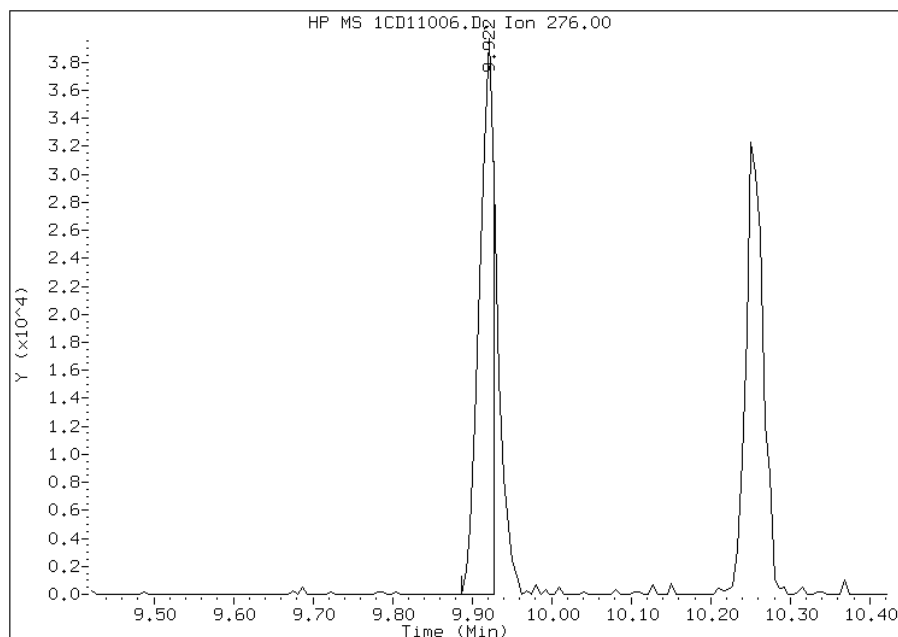
## Processing Integration Results

RT: 9.99  
Response: 108  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 9.92  
Response: 50225  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:35  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11007.D  
 Lab Smp Id: IC-1531400  
 Inj Date : 11-APR-2013 13:30  
 Operator : SCC  
 Smp Info : IC-1531400  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 13:11 Cal File: 1CD11006.D  
 Als bottle: 7 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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	246668	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	161880	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	295862	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	44711	10.0000	9.8155
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	371008	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	373300	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	66803	10.0000	10.0187
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	42945	10.0000	10.3474
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	38170	10.0000	8.9618
5 Acenaphthylene	152	4.674	4.674	(0.981)	69442	10.0000	10.1235
7 Acenaphthene	154	4.780	4.780	(1.004)	45560	10.0000	10.7277
9 Fluorene	166	5.098	5.098	(1.070)	56195	10.0000	10.6823
11 Phenanthrene	178	5.721	5.721	(1.003)	85752	10.0000	8.9693(H)
12 Anthracene	178	5.757	5.757	(1.009)	86681	10.0000	10.0918
13 Carbazole	167	5.863	5.863	(1.028)	78836	10.0000	9.8550
15 Fluoranthene	202	6.551	6.551	(1.148)	98679	10.0000	10.2813
16 Pyrene	202	6.721	6.721	(0.880)	104590	10.0000	9.9092
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	101817	10.0000	9.6151
19 Chrysene	228	7.657	7.657	(1.002)	99776	10.0000	9.6136
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	93677	10.0000	9.9354(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	107089	10.0000	10.0374(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	98767	10.0000	10.1338(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	83577	10.0000	8.7663(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	87325	10.0000	9.2288(H)
26 Benzo(g,h,i)perylene	276	10.256	10.256	(1.166)	96936	10.0000	10.6113(H)

QC Flag Legend

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

Data File: 1CD11007.D

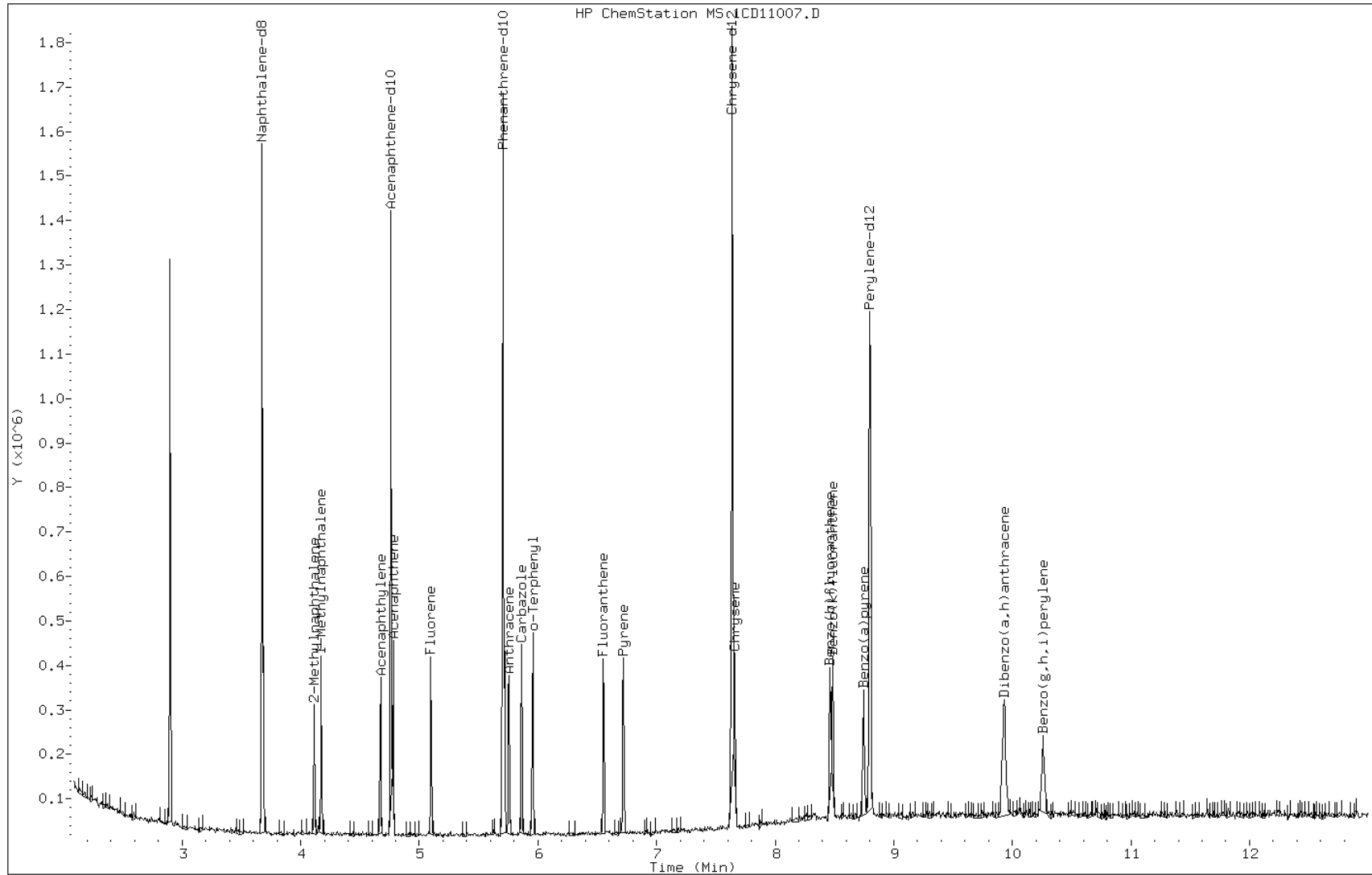
Date: 11-APR-2013 13:30

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



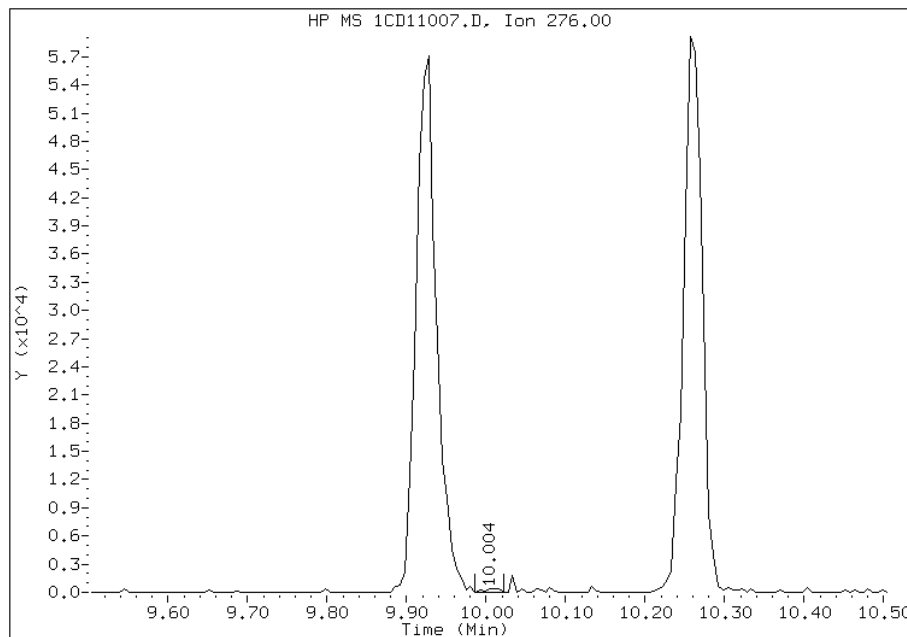


# Manual Integration Report

Data File: 1CD11007.D  
Inj. Date and Time: 11-APR-2013 13:30  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/11/2013

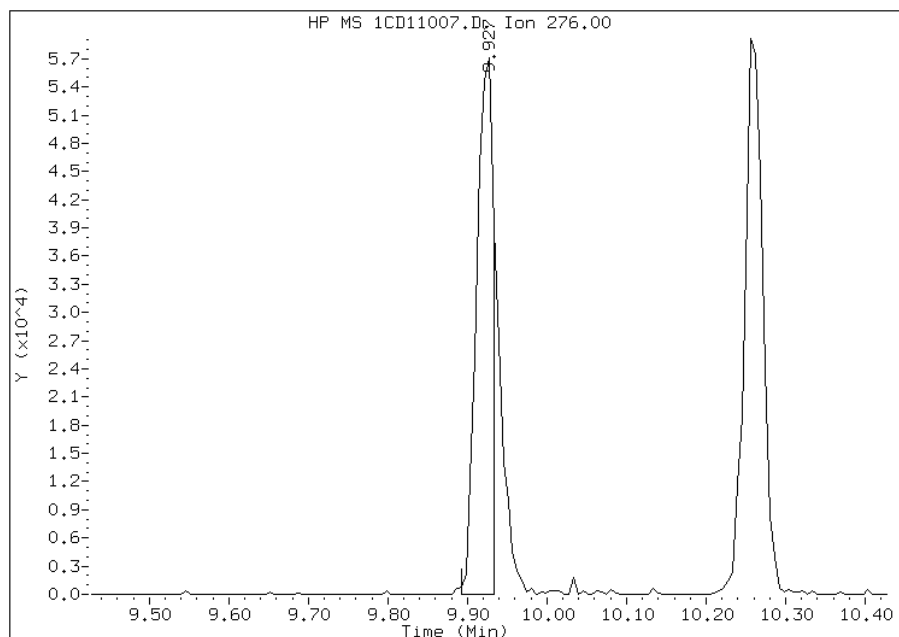
## Processing Integration Results

RT: 10.00  
Response: 600  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 9.93  
Response: 83577  
Amount: 9  
Conc: 9



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:36  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11008.D  
 Lab Smp Id: IC-1531402  
 Inj Date : 11-APR-2013 13:48  
 Operator : SCC  
 Smp Info : IC-1531402  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 13:30 Cal File: 1CD11007.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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	219235	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	151711	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	292639	40.0000	
\$ 14 o-Terphenyl	230	5.956	5.956	(1.044)	130217	30.0000	27.5608
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	355096	40.0000	
* 23 Perylene-d12	264	8.797	8.797	(1.000)	372168	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	178326	30.0000	30.0907
3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	117387	30.0000	31.8232
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	109784	30.0000	29.0014
5 Acenaphthylene	152	4.674	4.674	(0.981)	212811	30.0000	33.1039
7 Acenaphthene	154	4.780	4.780	(1.004)	121274	30.0000	30.6855
9 Fluorene	166	5.098	5.098	(1.070)	157410	30.0000	31.9283
11 Phenanthrene	178	5.721	5.721	(1.003)	259782	30.0000	27.4715(H)
12 Anthracene	178	5.756	5.756	(1.009)	245548	30.0000	28.9028
13 Carbazole	167	5.862	5.862	(1.028)	233698	30.0000	29.5356
15 Fluoranthene	202	6.556	6.556	(1.150)	279401	30.0000	29.4314
16 Pyrene	202	6.721	6.721	(0.880)	307735	30.0000	30.4624
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	305726	30.0000	30.4344
19 Chrysene	228	7.662	7.662	(1.003)	310162	30.0000	31.2239
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	299492	30.0000	31.8608(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	333825	30.0000	31.3844(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	299708	30.0000	30.8447(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	260884	30.0000	27.4473(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	274497	30.0000	29.0980(H)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	275805	30.0000	30.2834(H)

QC Flag Legend

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

Data File: 1CD11008.D

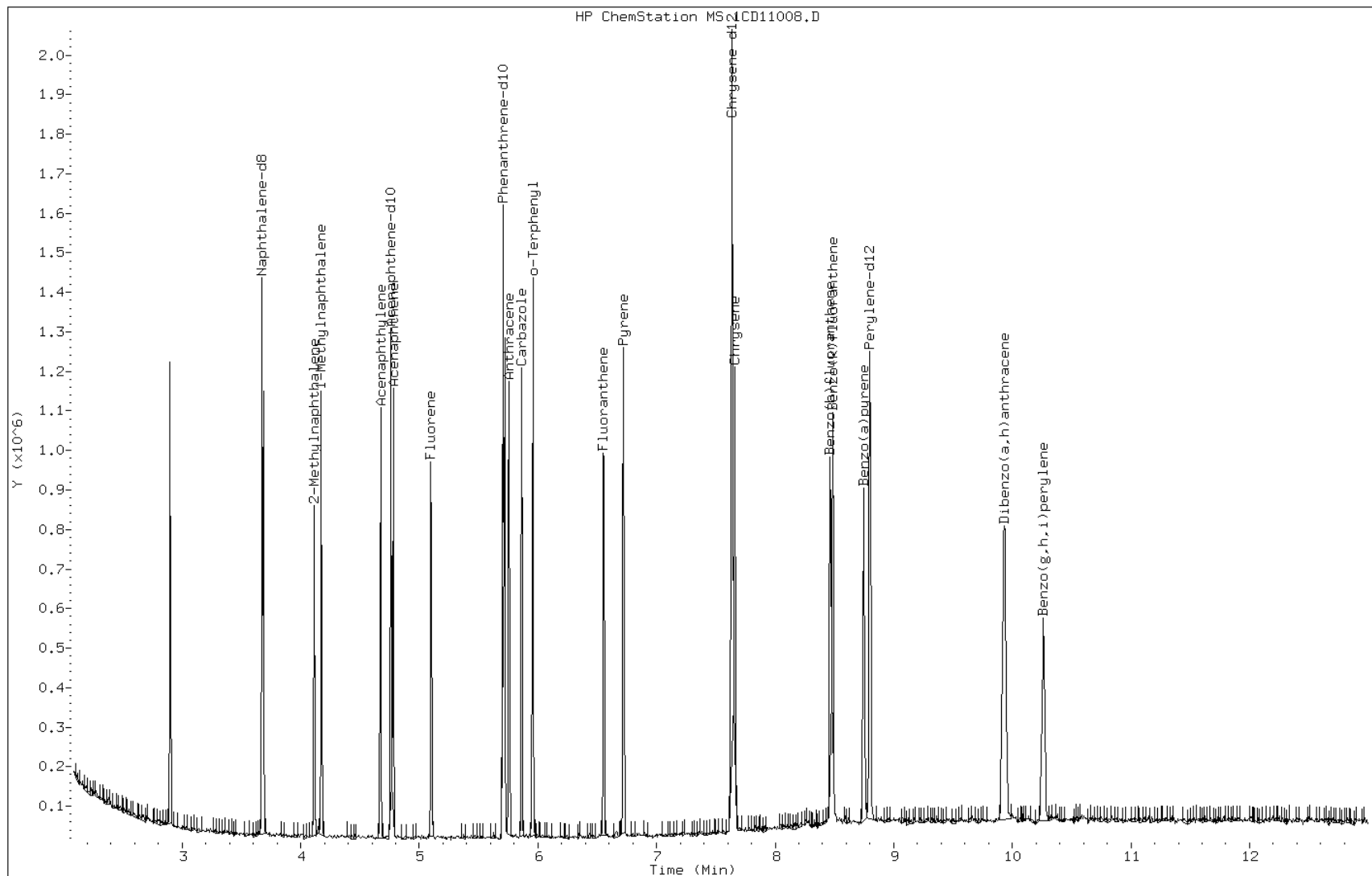
Date: 11-APR-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC

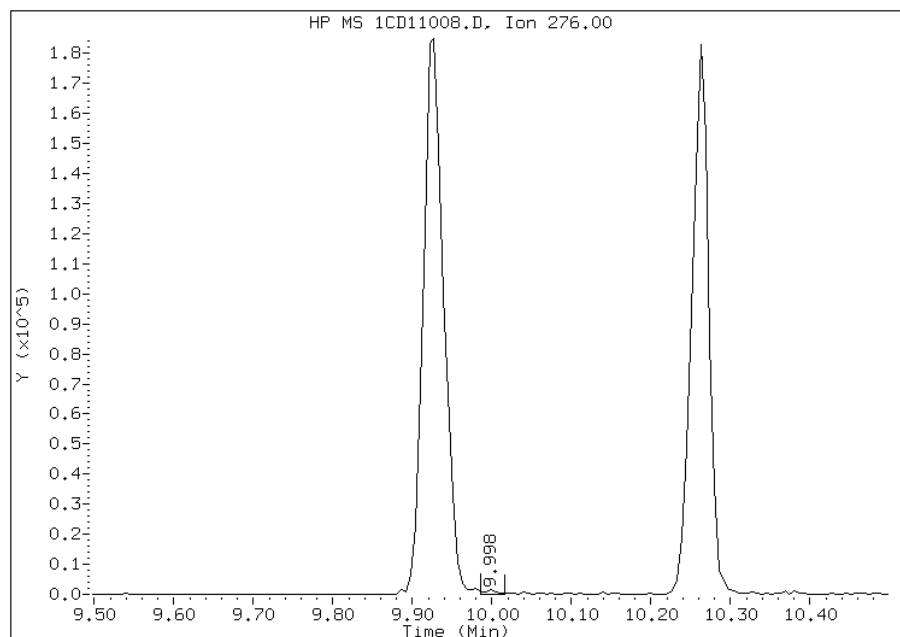


Manual Integration Report

Data File: 1CD11008.D  
Inj. Date and Time: 11-APR-2013 13:48  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/11/2013

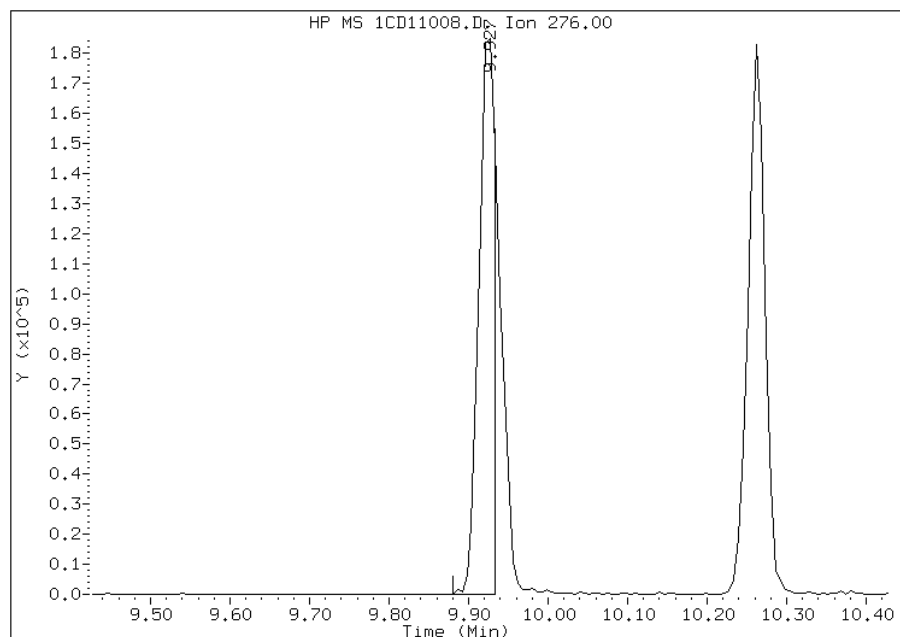
Processing Integration Results

RT: 10.00  
Response: 1705  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 9.93  
Response: 260884  
Amount: 27  
Conc: 27



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:36  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11009.D  
 Lab Smp Id: IC-1531403  
 Inj Date : 11-APR-2013 14:06  
 Operator : SCC  
 Smp Info : IC-1531403  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 13:48 Cal File: 1CD11008.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)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	3.674	3.674	(1.000)	245399	40.0000	
* 6 Acenaphthene-d10	=====	164	4.763	4.763	(1.000)	178913	40.0000	
* 10 Phenanthrene-d10	=====	188	5.704	5.704	(1.000)	327530	40.0000	
\$ 14 o-Terphenyl	=====	230	5.957	5.957	(1.044)	276100	50.0000	51.5953(A)
* 18 Chrysene-d12	=====	240	7.639	7.639	(1.000)	437594	40.0000	
* 23 Perylene-d12	=====	264	8.798	8.798	(1.000)	425092	40.0000	(H)
2 Naphthalene	=====	128	3.686	3.686	(1.003)	318955	50.0000	48.0823
3 2-Methylnaphthalene	=====	142	4.116	4.116	(1.120)	221322	50.0000	53.6026(A)
4 1-Methylnaphthalene	=====	142	4.174	4.174	(1.136)	201768	50.0000	47.6178
5 Acenaphthylene	=====	152	4.674	4.674	(0.981)	370532	50.0000	48.8750
7 Acenaphthene	=====	154	4.780	4.780	(1.004)	231163	50.0000	49.6697
9 Fluorene	=====	166	5.104	5.104	(1.072)	287857	50.0000	49.5103
11 Phenanthrene	=====	178	5.721	5.721	(1.003)	472306	50.0000	44.6250(H)
12 Anthracene	=====	178	5.757	5.757	(1.009)	498469	50.0000	52.4232(A)
13 Carbazole	=====	167	5.863	5.863	(1.028)	443362	50.0000	50.0646(A)
15 Fluoranthene	=====	202	6.557	6.557	(1.150)	556889	50.0000	52.4123(A)
16 Pyrene	=====	202	6.721	6.721	(0.880)	619923	50.0000	49.7966
17 Benzo(a)anthracene	=====	228	7.633	7.633	(0.999)	615507	50.0000	49.8010
19 Chrysene	=====	228	7.662	7.662	(1.003)	632502	50.0000	51.6696(A)
20 Benzo(b)fluoranthene	=====	252	8.468	8.468	(0.963)	576085	50.0000	53.6554(AH)
21 Benzo(k)fluoranthene	=====	252	8.486	8.486	(0.965)	711099	50.0000	58.5305(AH)
22 Benzo(a)pyrene	=====	252	8.751	8.751	(0.995)	612644	50.0000	55.2010(AH)
24 Indeno(1,2,3-cd)pyrene	=====	276	9.933	9.933	(1.129)	557635	50.0000	51.3640(AMH)
25 Dibenzo(a,h)anthracene	=====	278	9.945	9.945	(1.130)	545458	50.0000	50.6224(AH)
26 Benzo(g,h,i)perylene	=====	276	10.268	10.268	(1.167)	540151	50.0000	51.9247(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: 1CD11009.D

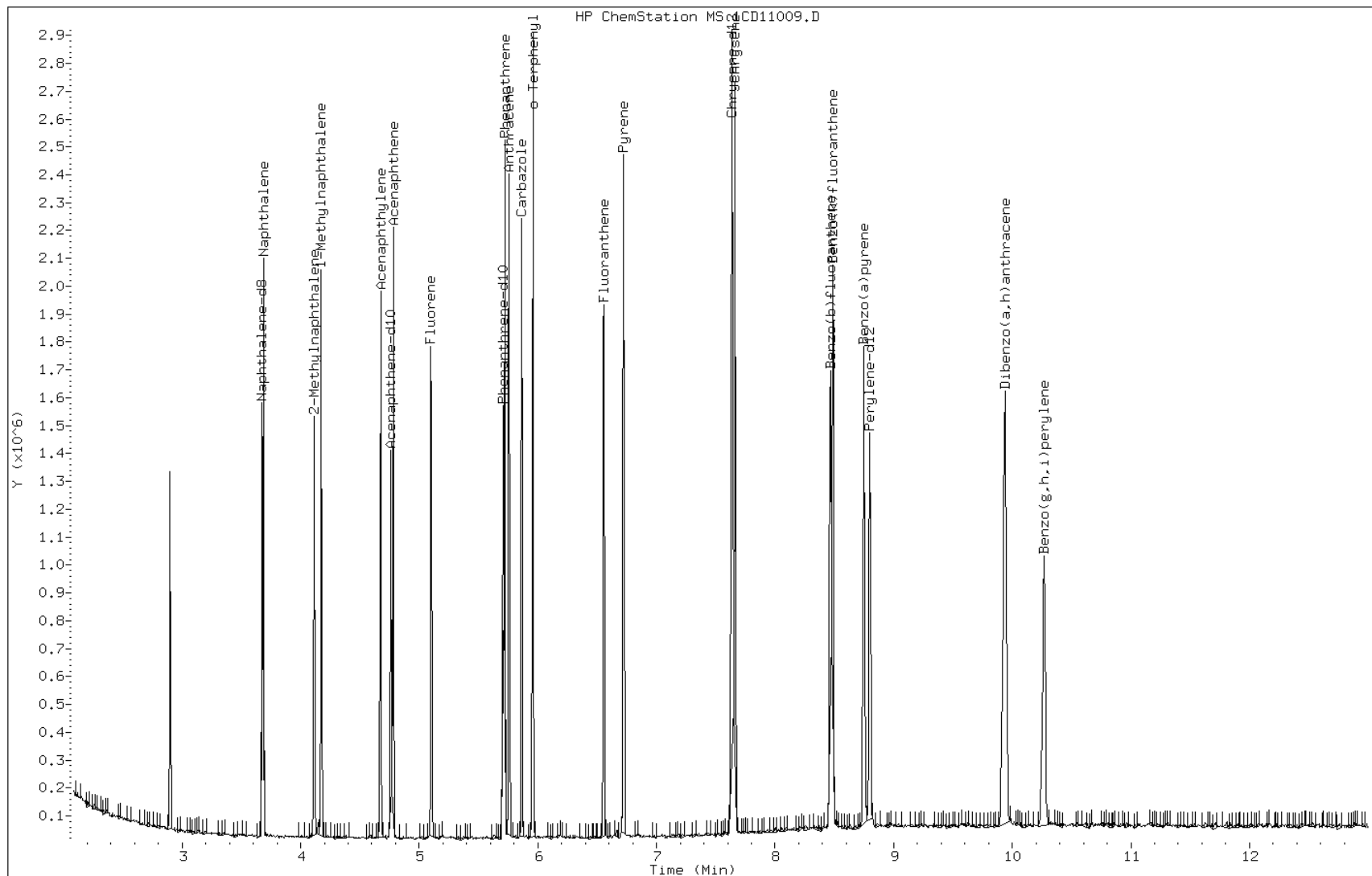
Date: 11-APR-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC

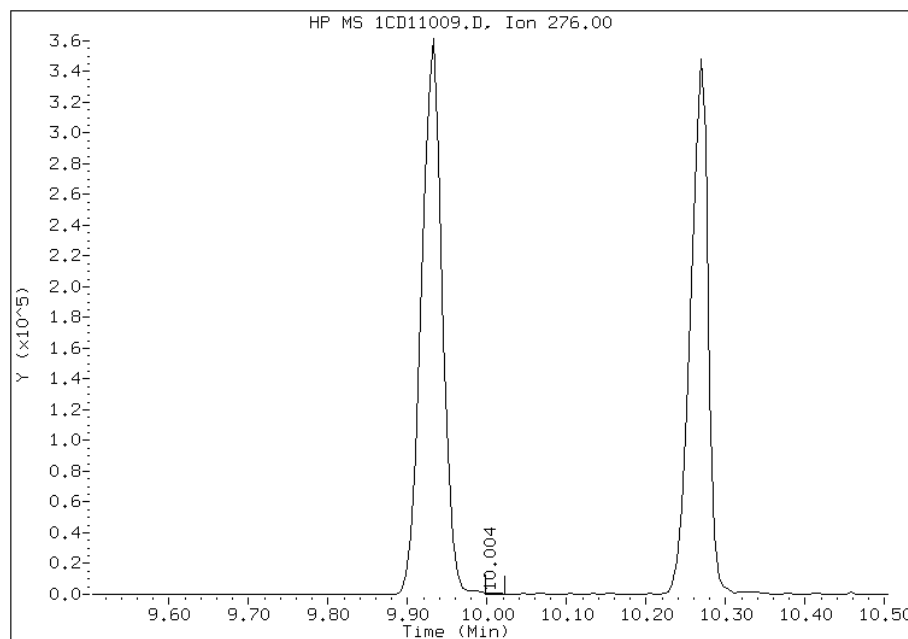


Manual Integration Report

Data File: 1CD11009.D  
Inj. Date and Time: 11-APR-2013 14:06  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/11/2013

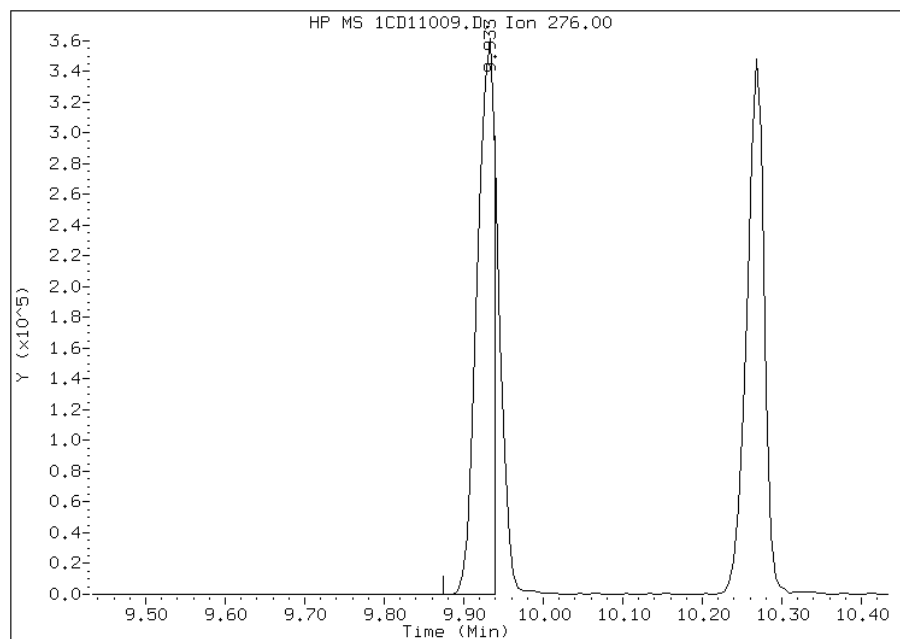
Processing Integration Results

RT: 10.00  
Response: 955  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 9.93  
Response: 557635  
Amount: 51  
Conc: 51



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:37  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab Sample ID: ICV 660-136370/10 Calibration Date: 04/11/2013 14:25  
 Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/11/2013 14:06  
 Lab File ID: 1CD11010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	0.9667	0.0000	17900	20000	-10.6	35.0
2-Methylnaphthalene	Lin	0.6730	0.7057	0.0000	19800	20000	-1.1	35.0
1-Methylnaphthalene	Ave	0.6907	0.6750	0.0000	19500	20000	-2.3	35.0
Acenaphthylene	Ave	1.695	1.600	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Ave	1.021	0.9034	0.0000	17700	20000	-11.6	35.0
Fluorene	Ave	1.300	1.293	0.0000	19900	20000	-0.6	35.0
Phenanthrene	Qua	1.293	1.058	0.0000	18100	20000	-9.4	35.0
Anthracene	Ave	1.161	1.108	0.0000	19100	20000	-4.6	35.0
Carbazole	Ave	1.082	1.002	0.0000	18500	20000	-7.3	35.0
Fluoranthene	Ave	1.298	1.281	0.0000	19700	20000	-1.3	35.0
Pyrene	Ave	1.138	0.9796	0.0000	17200	20000	-13.9	35.0
Benzo[a]anthracene	LinF	1.279	1.089	0.0000	19300	20000	-3.7	35.0
Chrysene	Ave	1.119	0.9569	0.0000	17100	20000	-14.5	35.0
Benzo[b]fluoranthene	Ave	1.010	0.9917	0.0000	19600	20000	-1.8	35.0
Benzo[k]fluoranthene	Ave	1.143	1.000	0.0000	17500	20000	-12.5	35.0
Benzo[a]pyrene	Ave	1.044	0.8988	0.0000	17200	20000	-13.9	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8637	0.0000	17300	20000	-13.6	35.0
Dibenz(a,h)anthracene	Lin	1.014	0.9353	0.0000	18700	20000	-6.5	35.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9212	0.0000	18800	20000	-5.9	35.0
o-Terphenyl	Lin	0.5859	0.5690	0.0000	17900	20000	-10.6	35.0



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 11-APR-2013 14:25  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\A-BFASTPAHi-m.m  
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: TAM1000  
 Inst ID: BSMC5973.i  
 Compound Sublist: pah.sub

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		3.674	3.675	(1.000)	273342	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	204687	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	380421	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	108232	17.8704	17.8703	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	501991	40.0000		
* 23 Perylene-d12	264		8.798	8.798	(1.000)	491170	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	132124	17.8815	17.8815	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	96442	19.7889	19.7889	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	92254	19.5465	19.5464	
5 Acenaphthylene	152		4.674	4.675	(0.981)	163781	18.8832	18.8832	
7 Acenaphthene	154		4.780	4.781	(1.004)	92455	17.6882	17.6882	
9 Fluorene	166		5.098	5.104	(1.070)	132282	19.8871	19.8871	
11 Phenanthrene	178		5.721	5.722	(1.003)	201336	18.1160	18.1159	
12 Anthracene	178		5.757	5.757	(1.009)	210753	19.0830	19.0829	
13 Carbazole	167		5.863	5.863	(1.028)	190681	18.5382	18.5381	
15 Fluoranthene	202		6.551	6.557	(1.148)	243606	19.7397	19.7396	
16 Pyrene	202		6.721	6.722	(0.880)	245865	17.2161	17.2160	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		7.633	7.634	(0.999)	273405	19.2602	19.2602
19 Chrysene	228		7.662	7.663	(1.003)	240185	17.1039	17.1038
20 Benzo(b)fluoranthene	252		8.462	8.468	(0.962)	243541	19.6314	19.6313
21 Benzo(k)fluoranthene	252		8.486	8.486	(0.965)	245569	17.4935	17.4935
22 Benzo(a)pyrene	252		8.745	8.751	(0.994)	220738	17.2134	17.2134
24 Indeno(1,2,3-cd)pyrene	276		9.921	9.933	(1.128)	212104	17.2880	17.2879(M)
25 Dibenzo(a,h)anthracene	278		9.939	9.945	(1.130)	229693	18.7094	18.7094
26 Benzo(g,h,i)perylene	276		10.256	10.269	(1.166)	226235	18.8222	18.8221

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11010.D

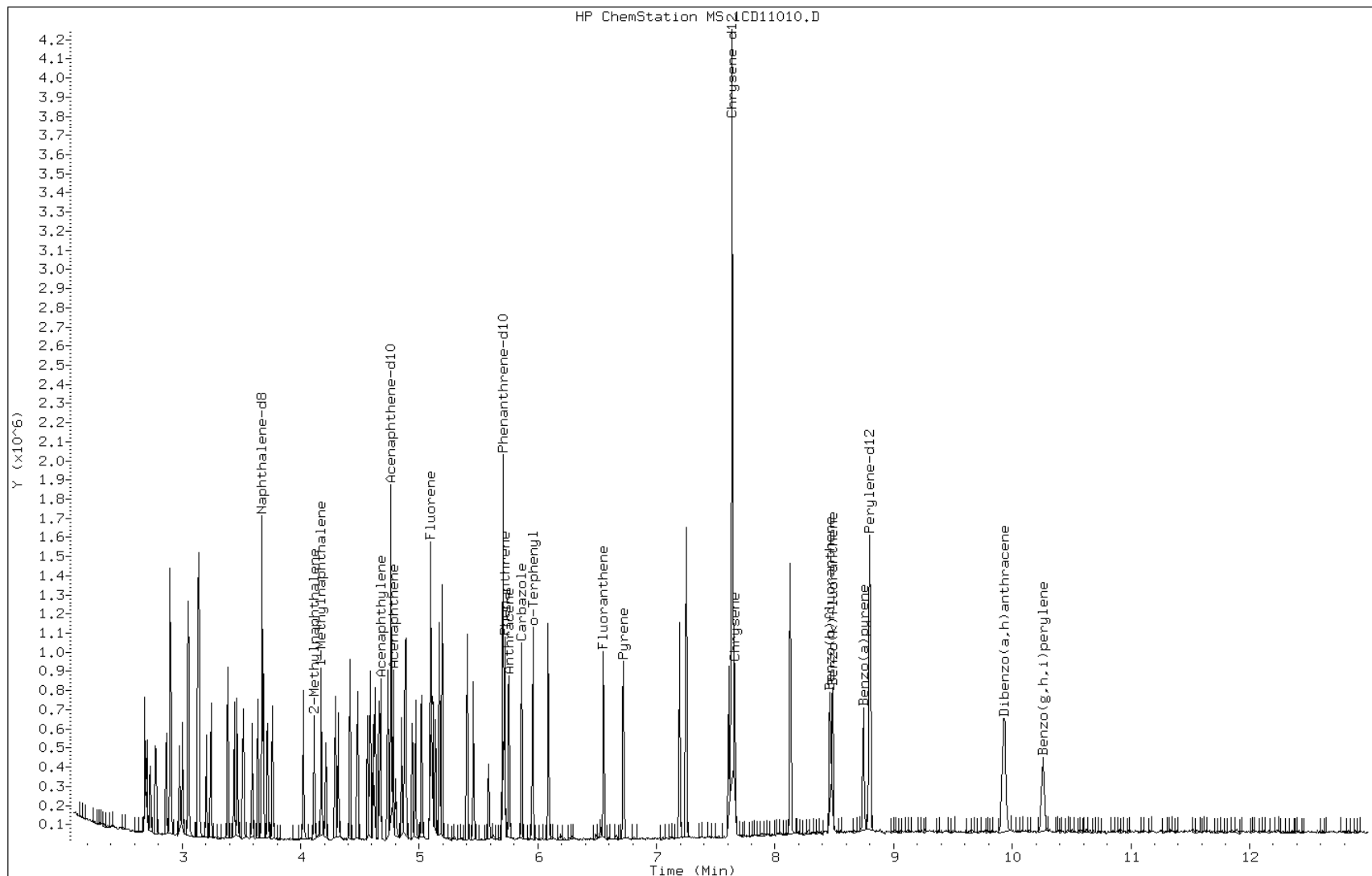
Date: 11-APR-2013 14:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

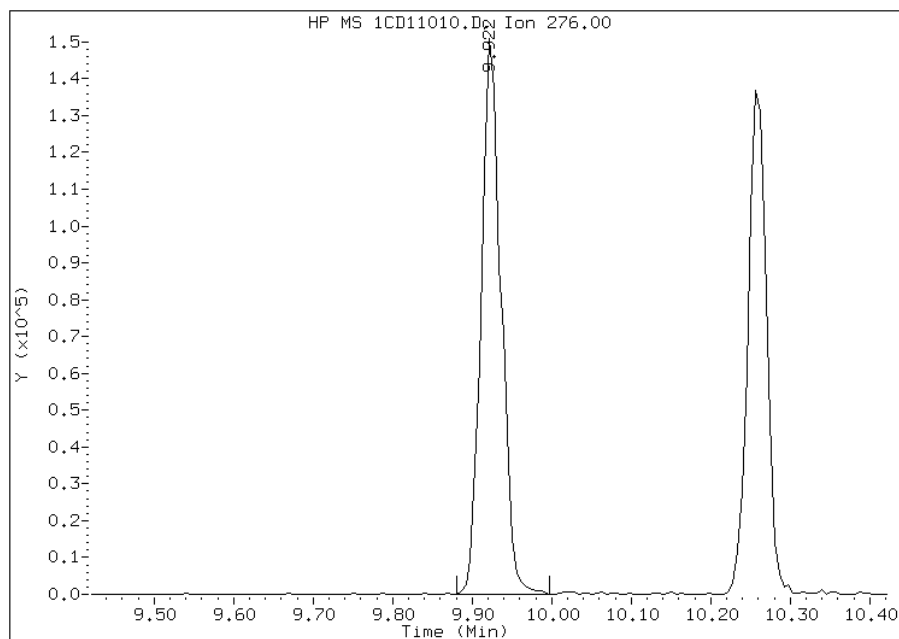


Manual Integration Report

Data File: 1CD11010.D  
Inj. Date and Time: 11-APR-2013 14:25  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/11/2013

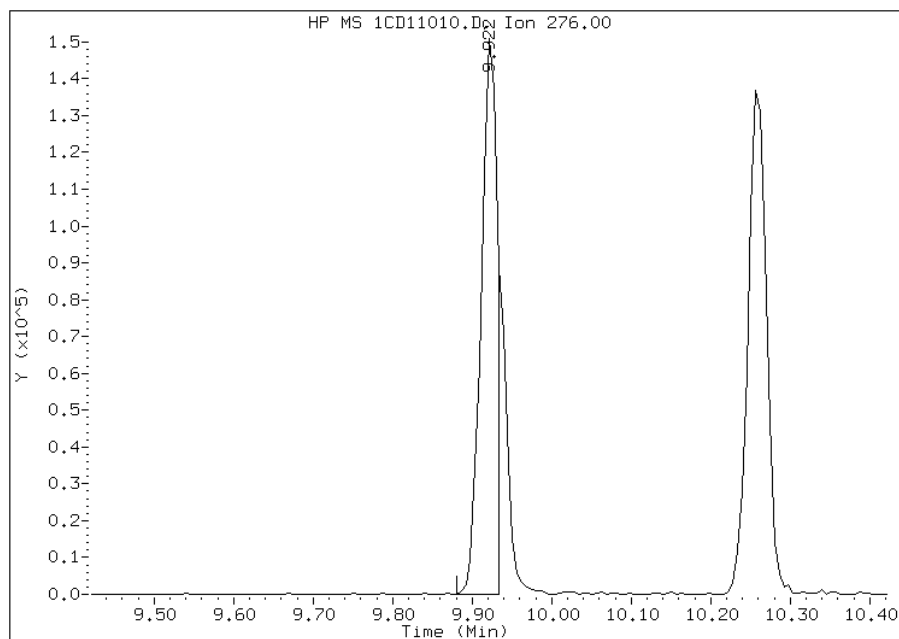
Processing Integration Results

RT: 9.92  
Response: 260276  
Amount: 21  
Conc: 21



Manual Integration Results

RT: 9.92  
Response: 212104  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:46  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab Sample ID: CCVIS 660-136605/3 Calibration Date: 04/18/2013 12:01  
 Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/11/2013 14:06  
 Lab File ID: 1CD18003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.029	0.0000	19000	20000	-4.8	20.0
2-Methylnaphthalene	Lin	0.6730	0.6406	0.0000	18000	20000	-10.1	20.0
1-Methylnaphthalene	Ave	0.6907	0.6354	0.0000	18400	20000	-8.0	20.0
Acenaphthylene	Ave	1.695	1.828	0.0000	21600	20000	7.8	20.0
Acenaphthene	Ave	1.021	1.053	0.0000	20600	20000	3.1	20.0
Fluorene	Ave	1.300	1.344	0.0000	20700	20000	3.4	20.0
Phenanthrene	Qua	1.293	1.171	0.0000	20100	20000	0.3	20.0
Anthracene	Ave	1.161	1.113	0.0000	19200	20000	-4.2	20.0
Carbazole	Ave	1.082	1.063	0.0000	19700	20000	-1.7	20.0
Fluoranthene	Ave	1.298	1.310	0.0000	20200	20000	1.0	20.0
Pyrene	Ave	1.138	1.108	0.0000	19500	20000	-2.6	20.0
Benzo[a]anthracene	LinF	1.279	1.097	0.0000	19400	20000	-3.0	20.0
Chrysene	Ave	1.119	1.069	0.0000	19100	20000	-4.5	20.0
Benzo[b]fluoranthene	Ave	1.010	1.048	0.0000	20700	20000	3.7	20.0
Benzo[k]fluoranthene	Ave	1.143	1.092	0.0000	19100	20000	-4.5	20.0
Benzo[a]pyrene	Ave	1.044	1.061	0.0000	20300	20000	1.6	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8961	0.0000	17900	20000	-10.4	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9062	0.0000	18100	20000	-9.3	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9357	0.0000	19100	20000	-4.4	20.0
o-Terphenyl	Lin	0.5859	0.6107	0.0000	19100	20000	-4.4	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C041813.b\1CD18003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 18-APR-2013 12:01  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.663	3.663	(1.000)	223132	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.745	(1.000)	151077	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	296248	40.0000	
\$ 14 o-Terphenyl	230	5.945	5.945	(1.044)	90453	20.0000	19.1278
* 18 Chrysene-d12	240	7.627	7.627	(1.000)	379503	40.0000	
* 23 Perylene-d12	264	8.780	8.780	(1.000)	385868	40.0000	
2 Naphthalene	128	3.674	3.674	(1.003)	114843	20.0000	19.0402
3 2-Methylnaphthalene	142	4.098	4.098	(1.119)	71469	20.0000	17.9897
4 1-Methylnaphthalene	142	4.163	4.163	(1.136)	70889	20.0000	18.3995
5 Acenaphthylene	152	4.663	4.663	(0.983)	138065	20.0000	21.5669
7 Acenaphthene	154	4.769	4.769	(1.005)	79519	20.0000	20.6118
9 Fluorene	166	5.086	5.086	(1.072)	101533	20.0000	20.6809
11 Phenanthrene	178	5.704	5.704	(1.002)	173464	20.0000	20.0554
12 Anthracene	178	5.739	5.739	(1.008)	164793	20.0000	19.1610
13 Carbazole	167	5.851	5.851	(1.028)	157478	20.0000	19.6602
15 Fluoranthene	202	6.539	6.539	(1.149)	194091	20.0000	20.1960
16 Pyrene	202	6.704	6.704	(0.879)	210266	20.0000	19.4754
17 Benzo(a)anthracene	228	7.615	7.615	(0.998)	208131	20.0000	19.3942
19 Chrysene	228	7.645	7.645	(1.002)	202797	20.0000	19.1025
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	202186	20.0000	20.7454
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	210620	20.0000	19.0983
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	204640	20.0000	20.3130
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.898	(1.127)	172885	20.0000	17.9128(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.129)	174831	20.0000	18.1408
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	180525	20.0000	19.1179

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD18003.D

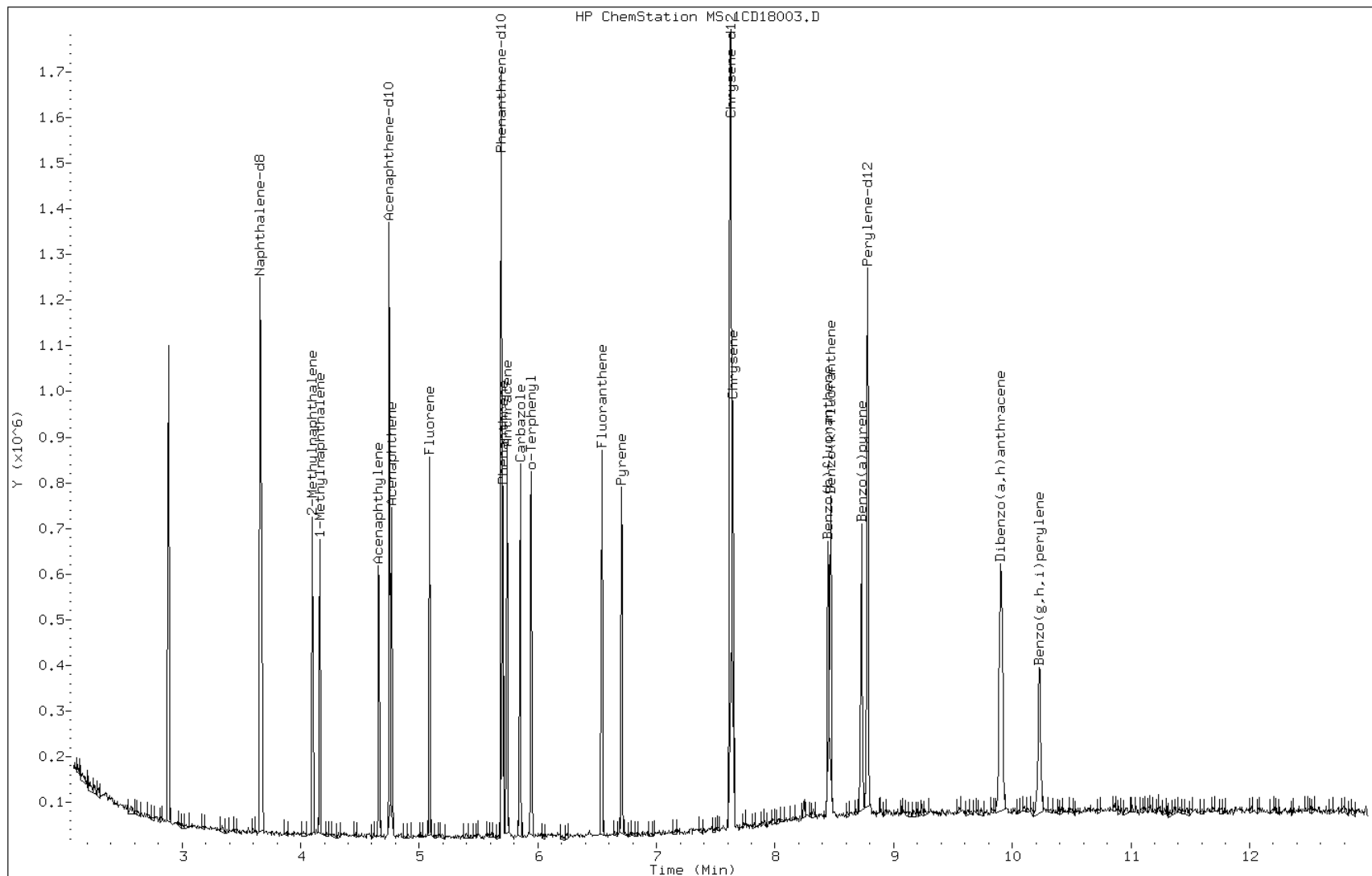
Date: 18-APR-2013 12:01

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

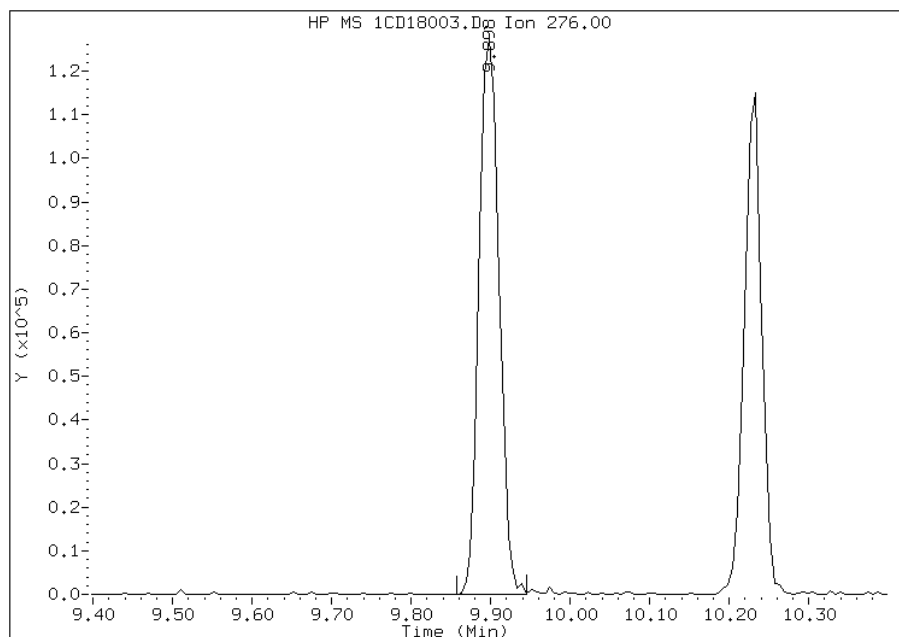


Manual Integration Report

Data File: 1CD18003.D  
Inj. Date and Time: 18-APR-2013 12:01  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

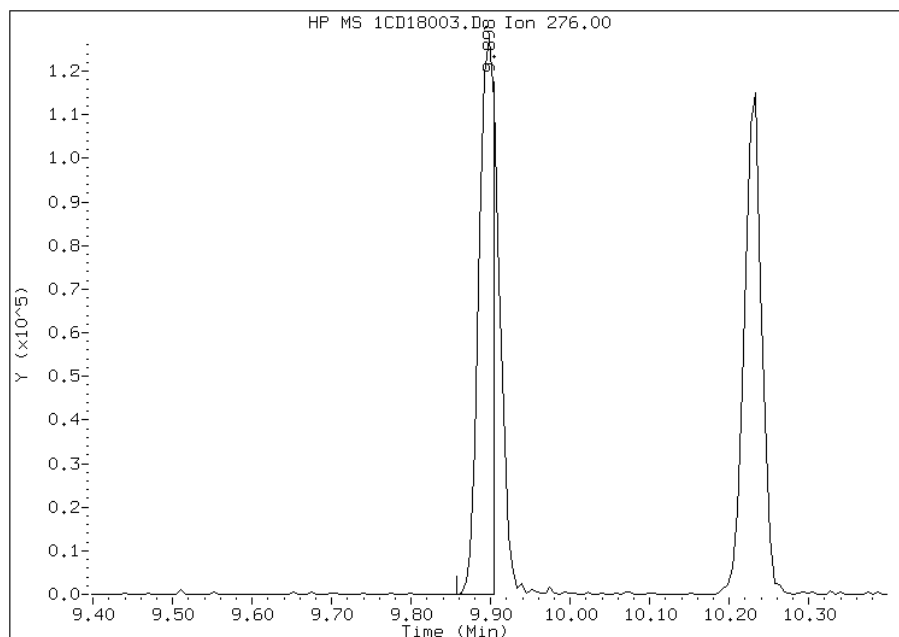
Processing Integration Results

RT: 9.90  
Response: 221904  
Amount: 23  
Conc: 23



Manual Integration Results

RT: 9.90  
Response: 172885  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 12:15  
Manual Integration Reason: Split Peak



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Lab Sample ID: CCVIS 660-136655/3 Calibration Date: 04/19/2013 11:24  
 Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/11/2013 14:06  
 Lab File ID: 1CD19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.069	0.0000	19800	20000	-1.1	20.0
2-Methylnaphthalene	Lin	0.6730	0.6717	0.0000	18800	20000	-5.8	20.0
1-Methylnaphthalene	Ave	0.6907	0.6224	0.0000	18000	20000	-9.9	20.0
Acenaphthylene	Ave	1.695	1.755	0.0000	20700	20000	3.5	20.0
Acenaphthene	Ave	1.021	1.005	0.0000	19700	20000	-1.6	20.0
Fluorene	Ave	1.300	1.334	0.0000	20500	20000	2.6	20.0
Phenanthrene	Qua	1.293	1.138	0.0000	19500	20000	-2.6	20.0
Anthracene	Ave	1.161	1.248	0.0000	21500	20000	7.5	20.0
Carbazole	Ave	1.082	1.004	0.0000	18600	20000	-7.1	20.0
Fluoranthene	Ave	1.298	1.258	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.138	1.062	0.0000	18700	20000	-6.7	20.0
Benzo[a]anthracene	LinF	1.279	1.069	0.0000	18900	20000	-5.5	20.0
Chrysene	Ave	1.119	1.051	0.0000	18800	20000	-6.1	20.0
Benzo[b]fluoranthene	Ave	1.010	0.9738	0.0000	19300	20000	-3.6	20.0
Benzo[k]fluoranthene	Ave	1.143	1.137	0.0000	19900	20000	-0.6	20.0
Benzo[a]pyrene	Ave	1.044	1.046	0.0000	20000	20000	0.1	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8495	0.0000	17000	20000	-14.9	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9157	0.0000	18300	20000	-8.4	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9483	0.0000	19400	20000	-3.1	20.0
o-Terphenyl	Lin	0.5859	0.5853	0.0000	18400	20000	-8.2	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 19-APR-2013 11:24  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m  
 Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.657	3.657	(1.000)	187771	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	127904	40.0000	(H)
* 10 Phenanthrene-d10	188	5.686	5.686	(1.000)	242114	40.0000	(H)
\$ 14 o-Terphenyl	230	5.933	5.933	(1.043)	70849	20.0000	18.3607(H)
* 18 Chrysene-d12	240	7.615	7.615	(1.000)	311596	40.0000	
* 23 Perylene-d12	264	8.768	8.768	(1.000)	321703	40.0000	(H)
2 Naphthalene	128	3.669	3.669	(1.003)	100389	20.0000	19.7781
3 2-Methylnaphthalene	142	4.092	4.092	(1.119)	63061	20.0000	18.8494
4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	58434	20.0000	18.0229
5 Acenaphthylene	152	4.657	4.657	(0.983)	112223	20.0000	20.7062
7 Acenaphthene	154	4.763	4.763	(1.005)	64288	20.0000	19.6829
9 Fluorene	166	5.080	5.080	(1.072)	85320	20.0000	20.5271(H)
11 Phenanthrene	178	5.698	5.698	(1.002)	137719	20.0000	19.4791(H)
12 Anthracene	178	5.733	5.733	(1.008)	151071	20.0000	21.4930(H)
13 Carbazole	167	5.845	5.845	(1.028)	121573	20.0000	18.5712(H)
15 Fluoranthene	202	6.533	6.533	(1.149)	152330	20.0000	19.3946(H)
16 Pyrene	202	6.698	6.698	(0.880)	165409	20.0000	18.6595
17 Benzo(a)anthracene	228	7.610	7.610	(0.999)	166545	20.0000	18.9012
19 Chrysene	228	7.639	7.639	(1.003)	163694	20.0000	18.7795
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	156644	20.0000	19.2783(H)
21 Benzo(k)fluoranthene	252	8.457	8.457	(0.964)	182853	20.0000	19.8875(H)
22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	168183	20.0000	20.0239(H)
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.127)	136650	20.0000	17.0156(MH)
25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.128)	147283	20.0000	18.3258(H)
26 Benzo(g,h,i)perylene	276	10.209	10.209	(1.164)	152540	20.0000	19.3762(H)

QC Flag Legend

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

Data File: 1CD19003.D

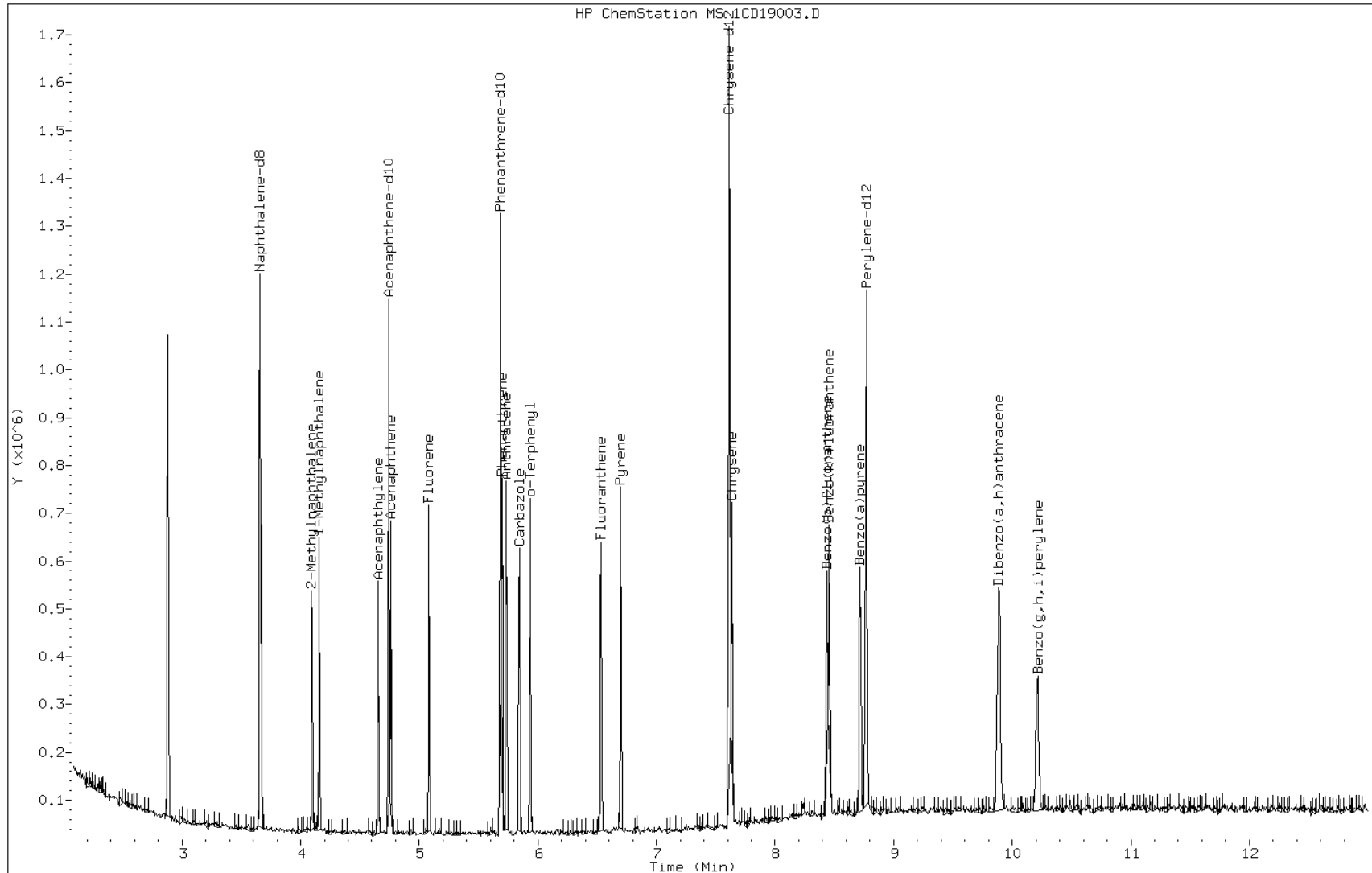
Date: 19-APR-2013 11:24

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

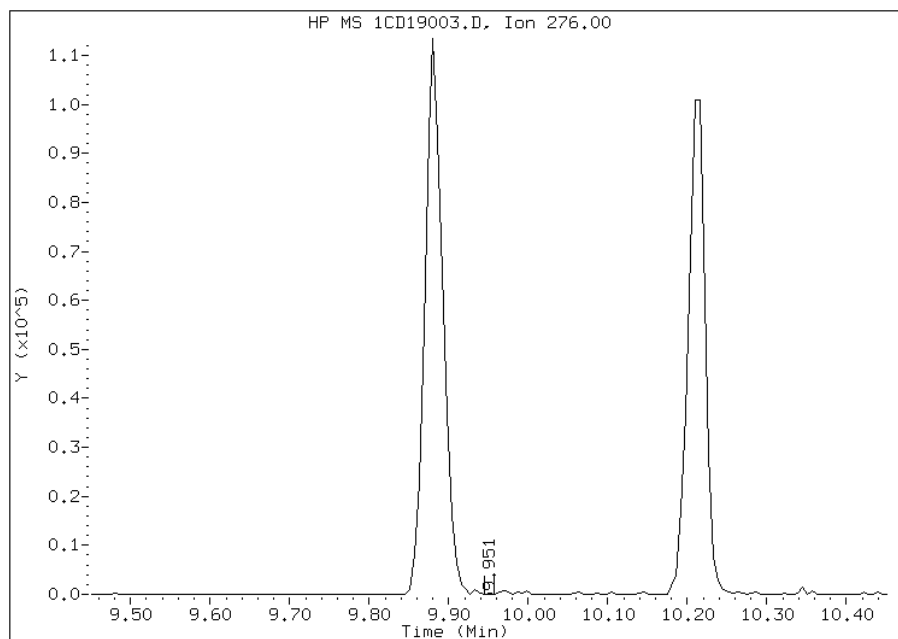


# Manual Integration Report

Data File: 1CD19003.D  
Inj. Date and Time: 19-APR-2013 11:24  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

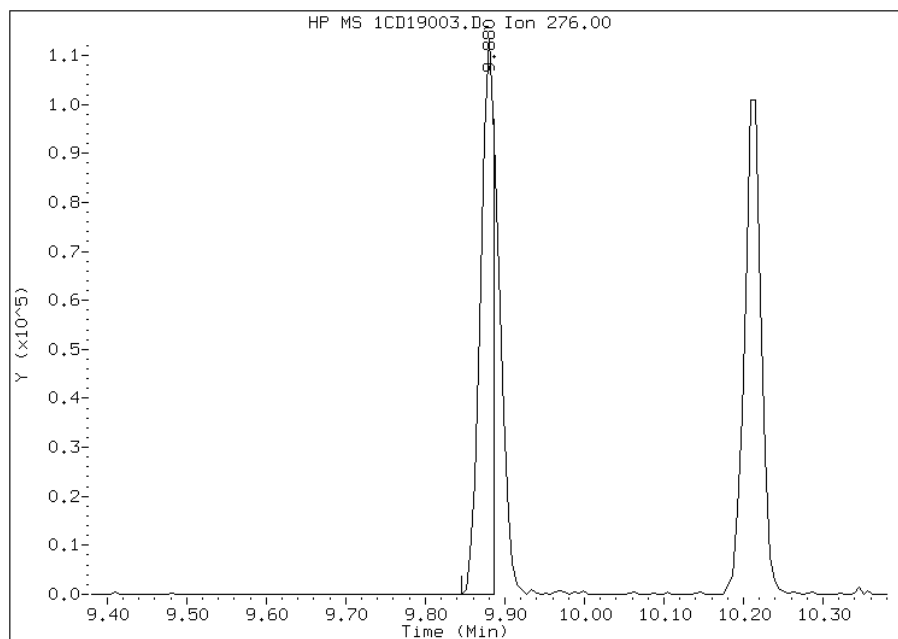
## Processing Integration Results

RT: 9.95  
Response: 122  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 9.88  
Response: 136650  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 11:44  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 11-APR-2013 11:38  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 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

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.269	7.469	-0.200	198	54472			50.00-	0.00	100.00
7.269	7.469	-0.200	51	21074			10.00-	80.00	38.69
7.269	7.469	-0.200	68	353			0.00-	2.00	1.33
7.269	7.469	-0.200	69	26600			0.00-	0.00	48.83
7.269	7.469	-0.200	70	132			0.00-	2.00	0.50
7.269	7.469	-0.200	127	25024			10.00-	80.00	45.94
7.269	7.469	-0.200	197	448			0.00-	2.00	0.82
7.269	7.469	-0.200	442	41796			50.00-	0.00	76.73
7.269	7.469	-0.200	199	3165			5.00-	9.00	5.81
7.269	7.469	-0.200	275	11356			10.00-	60.00	20.85
7.269	7.469	-0.200	365	2771			1.00-	0.00	5.09
7.269	7.469	-0.200	441	5680			0.01-	99.99	64.97
7.269	7.469	-0.200	443	8743			15.00-	24.00	20.92

Data File: 1CD11002.D

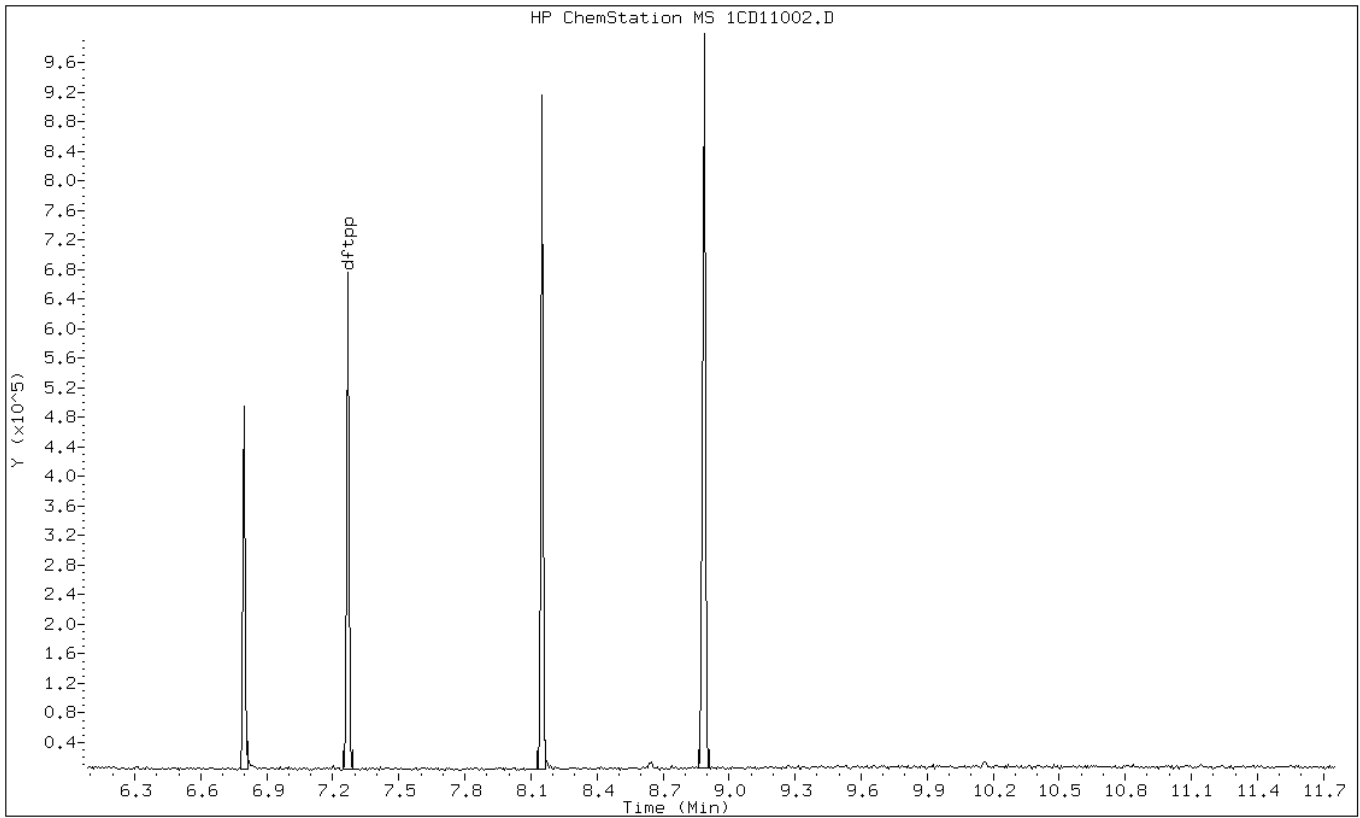
Date: 11-APR-2013 11:38

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD11002.D

Date: 11-APR-2013 11:38

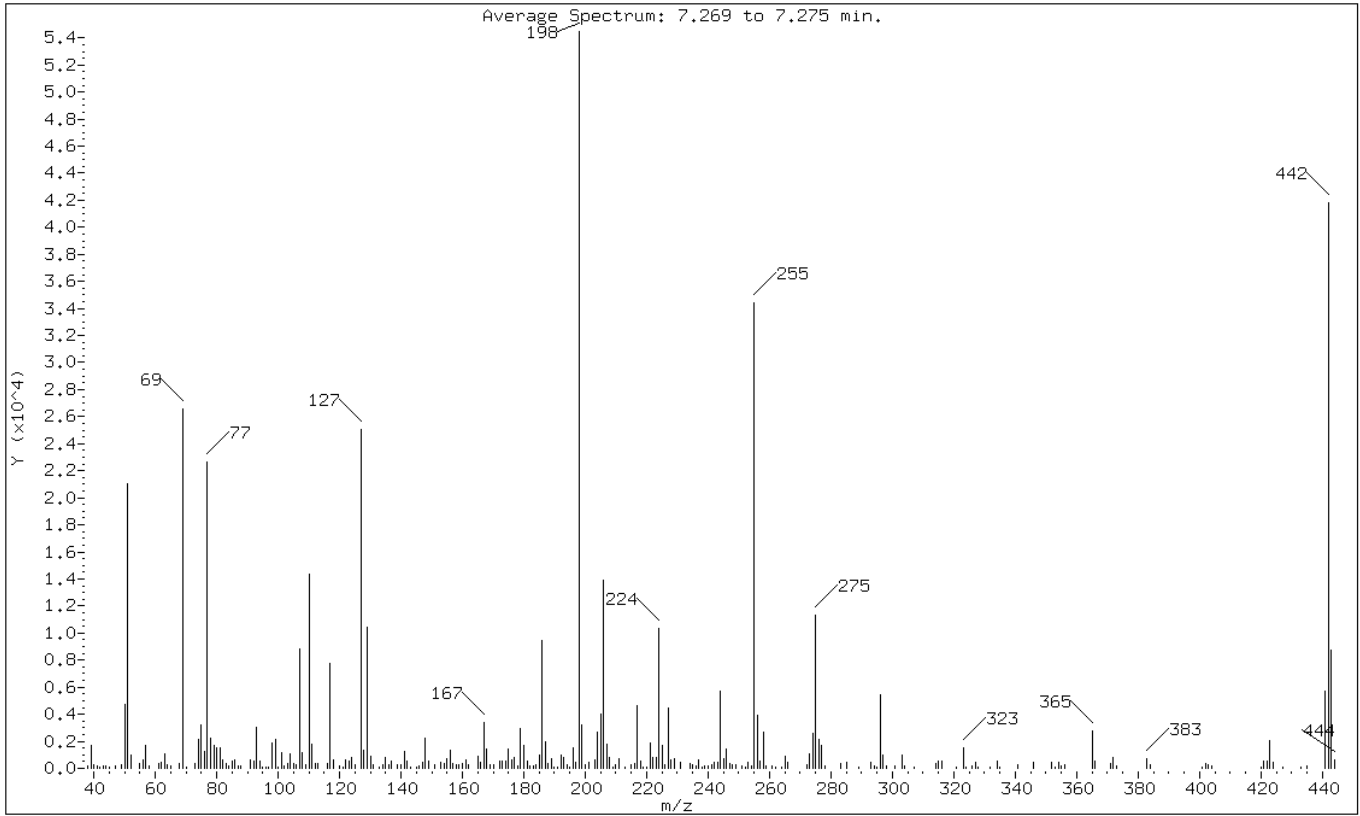
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

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	38.69
68	Less than 2.00% of mass 69	0.65 ( 1.33)
69	Mass 69 relative abundance	48.83
70	Less than 2.00% of mass 69	0.24 ( 0.50)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.82
442	Greater than 50.00% of mass 198	76.73
199	5.00 - 9.00% of mass 198	5.81
275	10.00 - 60.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	10.43
443	15.00 - 24.00% of mass 442	16.05 ( 20.92)

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D

Spectrum: Average Spectrum: 7.269 to 7.275 min.

Location of Maximum: 198.00

Number of points: 258

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	141	117.00	7792	192.00	941	266.00	463
39.00	1700	118.00	633	193.00	768	272.00	261
40.00	309	120.00	172	194.00	248	273.00	1086
41.00	212	121.00	81	195.00	118	274.00	2545
42.00	101	122.00	618	196.00	1486	275.00	11356
43.00	189	123.00	527	197.00	448	276.00	2162
44.00	218	124.00	760	198.00	54472	277.00	1668
45.00	75	125.00	297	199.00	3165	278.00	173
47.00	138	127.00	25024	200.00	261	283.00	397
49.00	296	128.00	1379	201.00	429	285.00	405
50.00	4728	129.00	10387	203.00	647	289.00	86
51.00	21072	130.00	905	204.00	2694	293.00	463
52.00	978	131.00	241	205.00	4012	294.00	163
55.00	372	133.00	76	206.00	13898	295.00	117
56.00	660	134.00	248	207.00	1801	296.00	5458
57.00	1715	135.00	839	208.00	802	297.00	985
58.00	143	136.00	263	209.00	108	298.00	186
61.00	354	137.00	547	210.00	311	301.00	140
62.00	440	139.00	248	211.00	692	303.00	973
63.00	1027	140.00	294	213.00	120	304.00	144
64.00	238	141.00	1264	215.00	302	307.00	75
65.00	219	142.00	522	216.00	382	314.00	371
68.00	353	143.00	119	217.00	4620	315.00	576
69.00	26600	145.00	86	218.00	501	316.00	571
70.00	132	146.00	154	219.00	78	321.00	122
73.00	387	147.00	484	220.00	83	323.00	1548
74.00	2154	148.00	2234	221.00	1909	324.00	106
75.00	3222	149.00	536	222.00	834	326.00	171
76.00	1231	151.00	277	223.00	833	327.00	475
77.00	22680	153.00	451	224.00	10305	328.00	129
78.00	2251	154.00	375	225.00	1699	332.00	90
79.00	1660	155.00	715	226.00	238	334.00	515
80.00	1523	156.00	1323	227.00	4427	335.00	88
81.00	1506	157.00	341	228.00	659	341.00	287
82.00	620	158.00	298	229.00	722	346.00	477
83.00	331	159.00	250	231.00	478	352.00	473
84.00	218	160.00	328	234.00	330	353.00	129
85.00	517	161.00	632	235.00	268	354.00	476
86.00	662	162.00	296	236.00	196	355.00	177
87.00	149	165.00	863	237.00	643	356.00	231



88.00	168	166.00	456	238.00	130	365.00	2771
91.00	638	167.00	3403	239.00	186	366.00	577
92.00	550	168.00	1471	240.00	203	371.00	326
93.00	3050	169.00	283	241.00	259	372.00	767
94.00	543	170.00	226	242.00	421	373.00	136
95.00	78	172.00	552	243.00	420	383.00	710
96.00	80	173.00	512	244.00	5690	384.00	290
97.00	97	174.00	492	245.00	728	401.00	123
98.00	1840	175.00	1453	246.00	1454	402.00	322
99.00	2133	176.00	612	247.00	328	403.00	283
100.00	97	177.00	818	248.00	255	404.00	187
101.00	1184	178.00	192	249.00	296	420.00	101
102.00	161	179.00	2908	251.00	152	421.00	556
103.00	325	180.00	1670	252.00	78	422.00	509
104.00	1088	181.00	547	253.00	422	423.00	2034
105.00	339	182.00	219	254.00	220	424.00	428
106.00	305	183.00	208	255.00	34392	427.00	77
107.00	8863	184.00	269	256.00	3905	433.00	77
108.00	1145	185.00	954	257.00	538	435.00	142
109.00	309	186.00	9451	258.00	2671	441.00	5680
110.00	14323	187.00	1971	259.00	192	442.00	41792
111.00	1814	188.00	326	261.00	196	443.00	8743
112.00	372	189.00	673	262.00	109	444.00	645
113.00	319	190.00	129	264.00	98		
116.00	324	191.00	101	265.00	936		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 18-APR-2013 11:44  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 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

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.257	7.469	-0.212	198	60488			50.00-	0.00	100.00
7.257	7.469	-0.212	51	28016			10.00-	80.00	46.32
7.257	7.469	-0.212	68	526			0.00-	2.00	1.56
7.257	7.469	-0.212	69	33808			0.00-	0.00	55.89
7.257	7.469	-0.212	70	295			0.00-	2.00	0.87
7.257	7.469	-0.212	127	32152			10.00-	80.00	53.15
7.257	7.469	-0.212	197	811			0.00-	2.00	1.34
7.257	7.469	-0.212	442	47872			50.00-	0.00	79.14
7.257	7.469	-0.212	199	4271			5.00-	9.00	7.06
7.257	7.469	-0.212	275	13932			10.00-	60.00	23.03
7.257	7.469	-0.212	365	3272			1.00-	0.00	5.41
7.257	7.469	-0.212	441	6460			0.01-	99.99	77.47
7.257	7.469	-0.212	443	8339			15.00-	24.00	17.42

Data File: 1CD18002.D

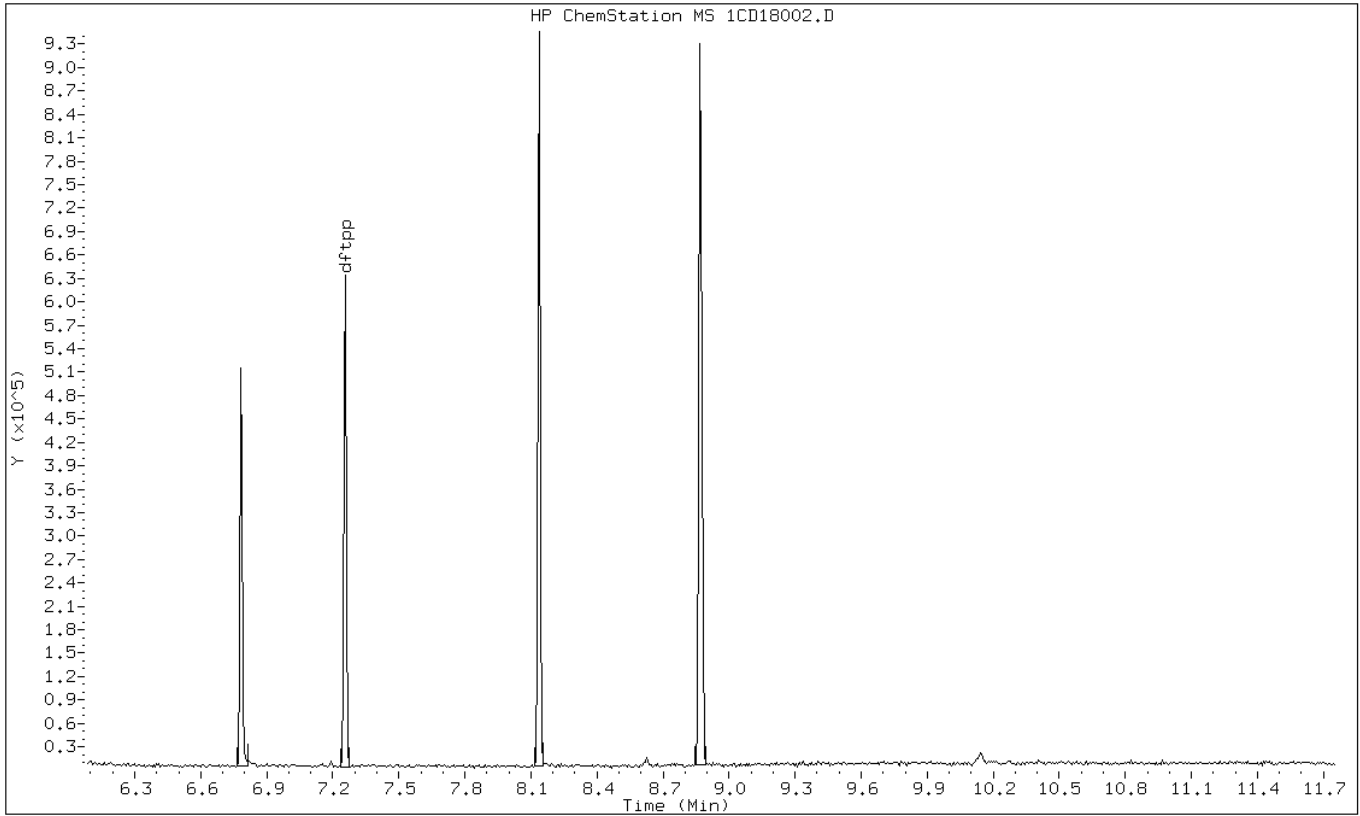
Date: 18-APR-2013 11:44

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD18002.D

Date: 18-APR-2013 11:44

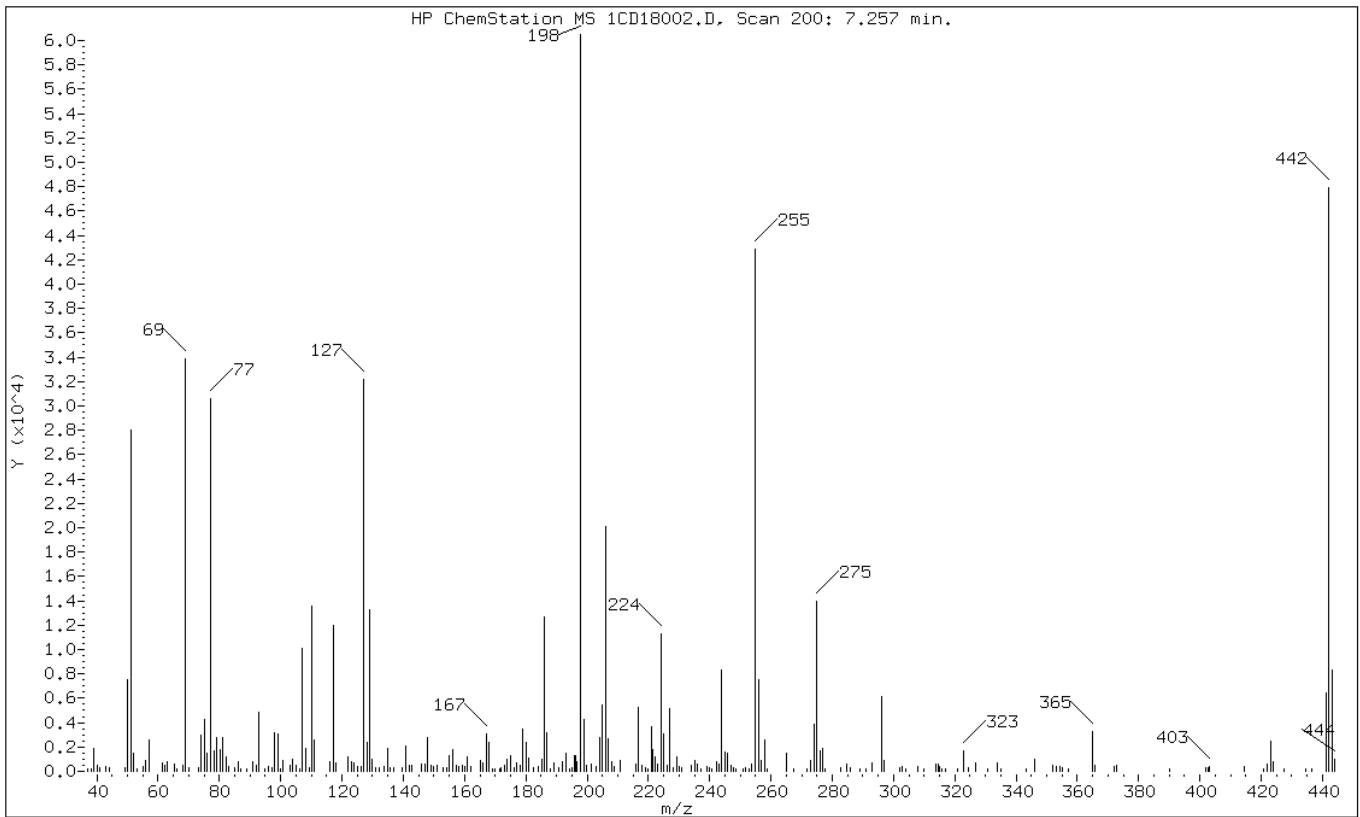
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

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	46.32
68	Less than 2.00% of mass 69	0.87 ( 1.56)
69	Mass 69 relative abundance	55.89
70	Less than 2.00% of mass 69	0.49 ( 0.87)
127	10.00 - 80.00% of mass 198	53.15
197	Less than 2.00% of mass 198	1.34
442	Greater than 50.00% of mass 198	79.14
199	5.00 - 9.00% of mass 198	7.06
275	10.00 - 60.00% of mass 198	23.03
365	Greater than 1.00% of mass 198	5.41
441	Present, but less than mass 443	10.68
443	15.00 - 24.00% of mass 442	13.79 ( 17.42)

Data File: 1CD18002.D

Date: 18-APR-2013 11:44

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18002.D

Spectrum: HP ChemStation MS 1CD18002.D, Scan 200: 7.257 min.

Location of Maximum: 198.00

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	213	123.00	800	194.10	162	273.00	925
38.10	178	123.90	644	194.90	264	274.00	3878
39.10	1896	125.00	382	195.80	1308	275.00	13932
40.00	476	126.20	411	196.20	1296	276.00	1665
41.10	346	127.00	32152	196.80	811	277.00	1892
43.00	436	128.10	2353	198.00	60488	277.70	173
44.10	249	129.10	13219	198.90	4271	282.90	305
49.00	335	130.00	962	199.90	449	284.90	595
50.10	7560	131.00	274	201.30	568	286.10	295
51.10	28016	132.20	298	203.00	360	289.00	208
52.10	1471	133.90	376	204.00	2747	291.00	177
53.00	230	135.10	1869	205.10	5491	292.90	647
55.10	386	135.80	308	206.00	20096	296.00	6110
56.00	907	136.90	336	207.00	2707	297.00	850
57.00	2593	139.80	254	207.90	835	302.00	343
61.20	716	141.00	2047	208.90	416	303.00	421
62.00	452	141.90	478	211.00	935	303.90	153
63.10	795	142.90	537	216.00	566	308.00	389
65.20	616	145.90	613	216.90	5222	310.00	185
66.00	166	147.00	556	217.90	454	314.00	578
68.10	526	148.00	2799	219.00	287	314.60	566
69.00	33808	149.10	522	219.90	169	315.00	422
70.00	295	150.00	348	220.90	3617	315.90	246
73.00	341	151.10	495	221.60	1796	317.00	212
74.10	2978	152.90	339	222.10	1150	320.80	175
75.10	4237	154.10	260	222.90	633	323.00	1678
76.00	1519	155.10	1314	224.00	11316	324.30	325
77.10	30584	156.10	1786	225.00	3040	326.90	734
78.10	1694	157.30	531	226.20	496	330.90	179
79.10	2819	158.00	358	227.00	5114	334.00	658
80.10	1772	159.10	464	228.10	311	335.10	175
81.10	2737	160.00	358	229.10	1168	343.20	214
82.10	1209	161.00	1168	230.00	365	346.00	941
82.90	351	161.90	403	231.00	255	352.10	536
85.10	294	165.20	903	234.00	543	353.10	388
86.00	773	166.00	650	235.10	864	354.20	386
87.10	179	167.00	3023	236.00	624	355.00	328
89.00	173	168.00	2401	237.00	200	357.10	194
91.00	767	169.10	227	239.20	432	365.00	3272
92.00	514	169.90	206	240.00	279	365.80	481

93.00	4853	171.30	166	240.60	162	372.00	398
94.90	171	171.90	257	242.10	827	373.00	514
95.80	418	173.20	465	243.00	589	390.10	158
97.20	258	174.00	965	244.00	8343	401.80	264
98.10	3164	175.10	1295	245.00	1628	402.80	291
99.00	3053	176.10	325	245.90	1436	403.20	352
100.00	232	176.80	649	246.90	523	414.60	369
100.90	848	178.10	478	247.80	345	420.70	189
102.90	509	178.90	3494	248.60	242	421.90	546
104.00	1029	180.10	2352	251.00	213	423.00	2495
104.90	458	181.10	1097	251.80	278	423.90	819
106.10	224	182.50	324	253.00	216	427.30	179
107.10	10077	184.00	395	253.70	578	434.40	180
108.10	1887	185.20	1028	255.00	42880	436.60	162
109.20	301	186.00	12682	256.00	7539	441.10	6460
110.10	13556	187.00	3153	256.90	856	442.00	47872
111.00	2545	188.10	184	258.00	2599	443.10	8339
116.00	812	189.00	676	258.90	180	444.00	964
117.10	11990	190.80	324	265.00	1491		
118.00	731	192.00	774	267.30	182		
121.90	1211	193.00	1510	271.80	167		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 19-APR-2013 11:08  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 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

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.251	7.469	-0.218	198	49952			50.00-	0.00	100.00
7.251	7.469	-0.218	51	22360			10.00-	80.00	44.76
7.251	7.469	-0.218	68	446			0.00-	2.00	1.94
7.251	7.469	-0.218	69	22992			0.00-	0.00	46.03
7.251	7.469	-0.218	70	236			0.00-	2.00	1.03
7.251	7.469	-0.218	127	23776			10.00-	80.00	47.60
7.251	7.469	-0.218	197	612			0.00-	2.00	1.23
7.251	7.469	-0.218	442	36928			50.00-	0.00	73.93
7.251	7.469	-0.218	199	2769			5.00-	9.00	5.54
7.251	7.469	-0.218	275	11275			10.00-	60.00	22.57
7.251	7.469	-0.218	365	3284			1.00-	0.00	6.57
7.251	7.469	-0.218	441	6054			0.01-	99.99	87.03
7.251	7.469	-0.218	443	6956			15.00-	24.00	18.84

Data File: 1CD19002.D

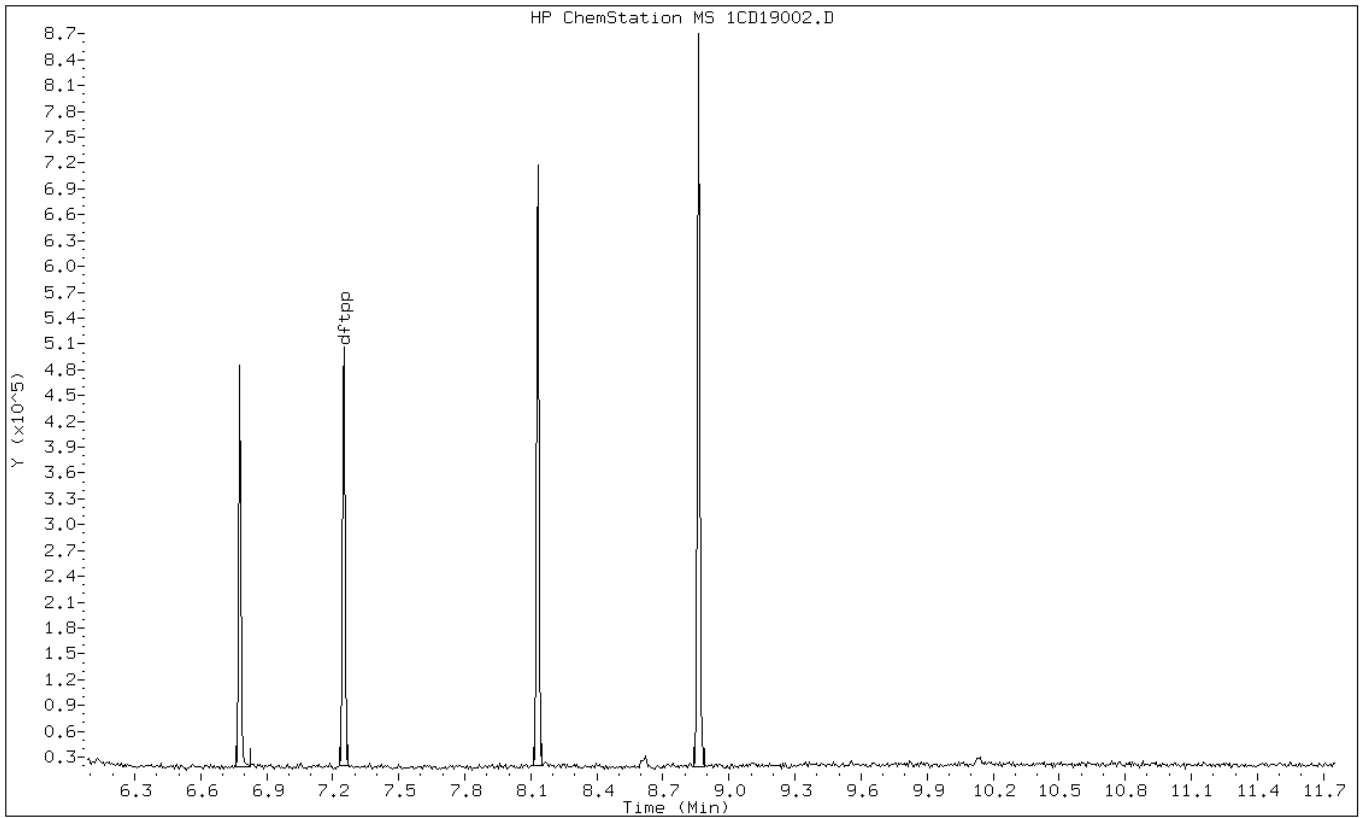
Date: 19-APR-2013 11:08

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC





Data File: 1CD19002.D

Date: 19-APR-2013 11:08

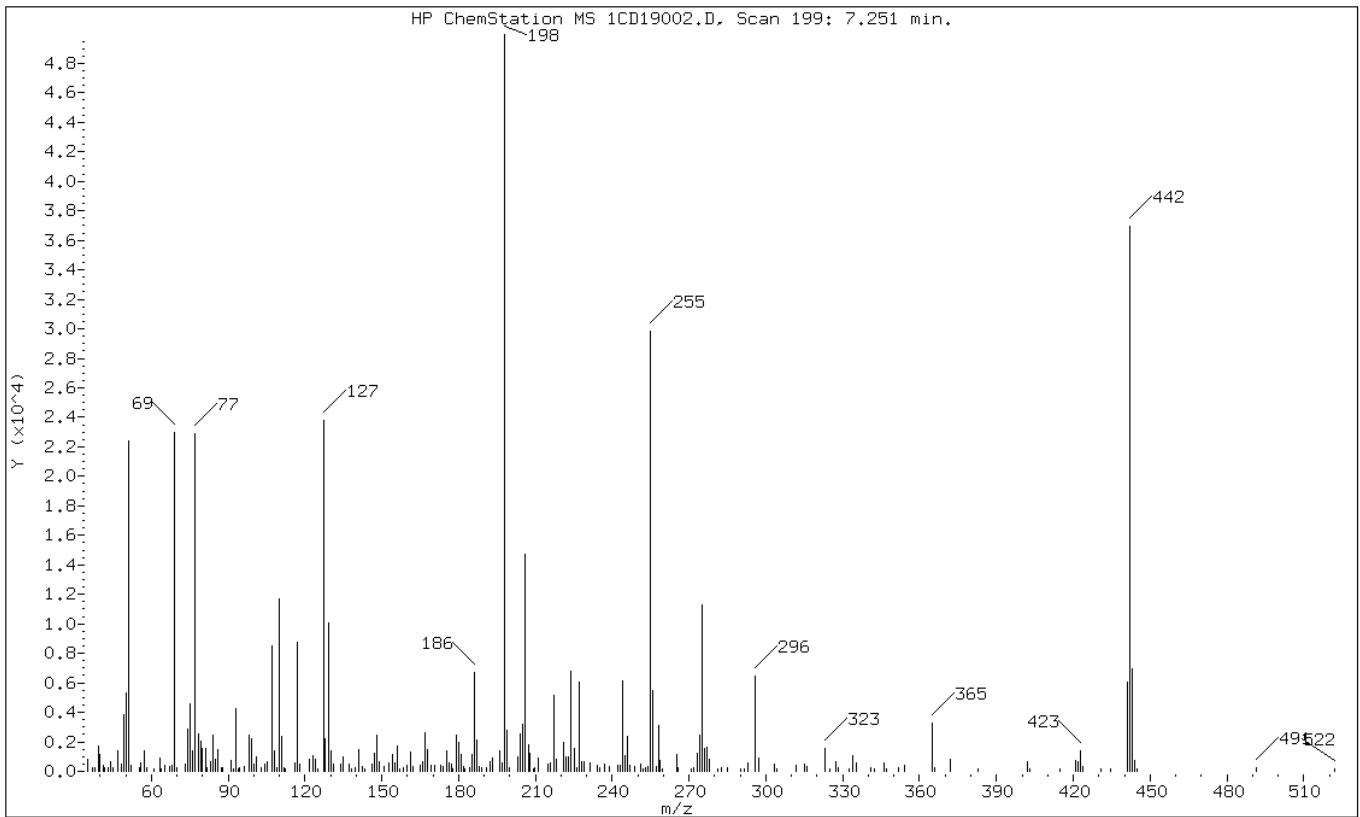
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

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	44.76
68	Less than 2.00% of mass 69	0.89 ( 1.94)
69	Mass 69 relative abundance	46.03
70	Less than 2.00% of mass 69	0.47 ( 1.03)
127	10.00 - 80.00% of mass 198	47.60
197	Less than 2.00% of mass 198	1.23
442	Greater than 50.00% of mass 198	73.93
199	5.00 - 9.00% of mass 198	5.54
275	10.00 - 60.00% of mass 198	22.57
365	Greater than 1.00% of mass 198	6.57
441	Present, but less than mass 442	12.12
443	15.00 - 24.00% of mass 442	13.93 ( 18.84)

Data File: 1CD19002.D

Date: 19-APR-2013 11:08

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19002.D

Spectrum: HP ChemStation MS 1CD19002.D, Scan 199: 7.251 min.

Location of Maximum: 198.00

Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	815	108.00	1401	185.00	1137	265.80	284
37.10	283	108.90	237	186.00	6671	270.80	168
38.00	236	110.00	11697	186.90	2118	271.80	231
39.10	1711	110.90	2348	188.00	328	273.00	1200
39.90	1148	112.00	222	188.90	282	273.90	2458
41.00	388	112.40	153	191.00	284	275.00	11275
41.90	231	115.90	602	192.10	658	275.90	1561
43.30	267	117.00	8736	193.10	907	277.00	1617
44.00	630	117.90	511	195.90	1391	278.00	823
45.00	267	121.90	840	197.10	612	281.00	152
46.90	1397	122.90	1062	198.00	49952	282.80	226
48.10	490	124.00	793	199.00	2769	284.80	219
49.00	3810	124.90	184	200.00	263	289.90	183
50.10	5349	127.10	23776	202.90	942	291.70	193
51.10	22360	127.90	2181	204.10	2558	293.10	601
52.00	417	129.00	10091	205.10	3156	296.00	6449
55.10	211	130.00	1364	206.10	14748	297.00	922
56.00	553	131.20	480	207.10	1806	303.10	470
57.00	1396	134.00	484	208.00	1264	304.10	154
58.10	216	134.90	942	209.20	204	312.00	439
61.20	182	137.00	513	209.90	255	314.90	511
63.10	882	138.10	190	211.20	876	316.00	349
64.00	170	139.70	282	214.90	450	322.90	1537
65.00	447	141.10	1468	216.00	545	324.80	164
66.90	303	142.30	350	217.00	5151	327.10	614
68.00	446	143.20	169	218.00	844	328.20	276
69.00	22992	146.00	455	220.90	1970	332.40	158
69.90	236	147.10	1265	221.70	1006	333.90	1050
73.30	455	148.00	2448	223.00	953	335.10	568
74.10	2873	148.90	646	224.00	6773	341.00	226
75.00	4567	151.00	299	225.10	1563	342.20	184
75.90	1369	152.80	545	226.20	231	346.10	553
77.10	22888	154.10	1146	227.10	6011	347.10	200
78.20	2549	155.20	544	227.90	628	351.70	258
79.10	2048	156.10	1745	228.90	661	353.90	384
80.00	1578	156.80	203	231.10	556	364.90	3284
81.00	1588	158.20	239	234.00	422	365.70	282
81.90	243	159.90	394	235.10	284	371.90	812
82.90	676	161.00	1323	236.80	511	383.00	200
84.00	2434	162.00	318	238.90	341	402.00	621

85.00	834	164.90	449	242.10	391	402.90	174
86.00	1437	165.90	665	243.10	395	415.00	204
87.10	278	167.00	2579	244.00	6138	421.10	740
87.90	222	168.00	1444	245.00	1028	422.00	683
90.90	766	169.00	384	246.00	2356	423.00	1388
91.90	169	170.70	391	246.90	427	423.80	303
93.00	4234	172.90	425	248.90	305	430.70	172
93.80	152	174.10	352	251.00	531	434.80	161
94.20	217	175.10	1358	252.20	166	441.00	6054
96.10	292	176.20	608	252.80	235	442.00	36928
98.00	2412	177.00	521	253.70	359	443.00	6956
99.00	2178	177.80	153	255.00	29848	444.00	740
100.00	487	179.00	2423	256.00	5486	444.90	181
101.00	943	180.00	1934	257.00	348	491.40	221
103.00	273	181.00	1159	258.00	3075	522.10	169
104.10	484	181.70	309	258.80	701		
105.10	647	182.60	185	259.70	179		
107.00	8495	184.10	229	265.00	1132		

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136542/1-A  
 Matrix: Solid Lab File ID: 1CD18018.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 14.98(g) Date Analyzed: 04/18/2013 16:36  
 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.: 136605 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	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18018.D  
 Lab Smp Id: mb 660-136542/1-a  
 Inj Date : 18-APR-2013 16:36  
 Operator : SCC  
 Smp Info : mb 660-136542/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 18 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: TAM1000  
 Inst ID: BSMC5973.i  
 Compound Sublist: pah.sub

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.657	3.663	(1.000)	234683	40.0000	
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	159396	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	306226	40.0000	
\$ 14 o-Terphenyl	230		5.939	5.945	(1.043)	36493	7.88610	526.4421
* 18 Chrysene-d12	240		7.621	7.627	(1.000)	379839	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	399862	40.0000	

Data File: 1CD18018.D

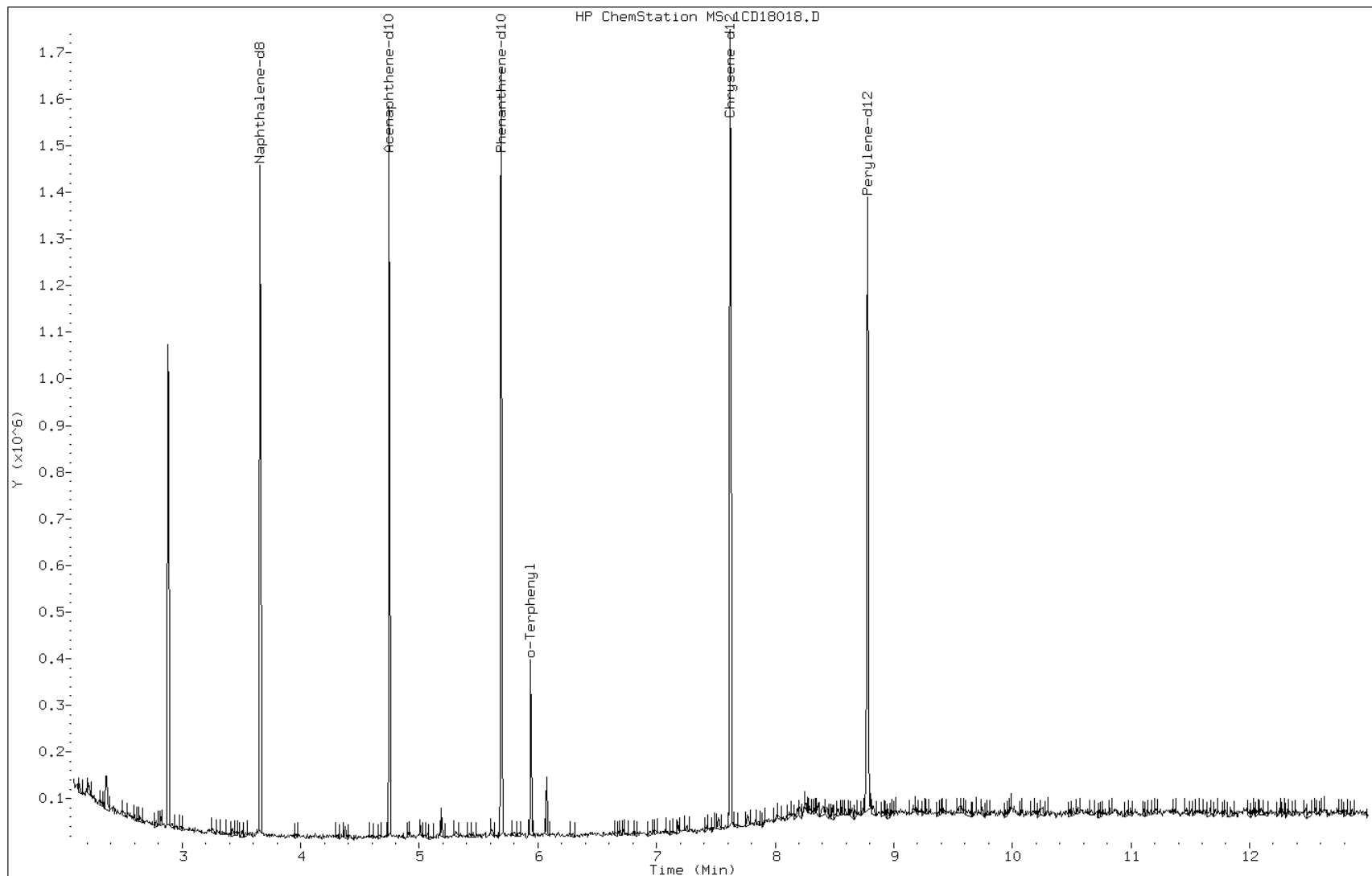
Date: 18-APR-2013 16:36

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136542/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136542/2-A  
 Matrix: Solid Lab File ID: 1CD18019.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.08(g) Date Analyzed: 04/18/2013 16:54  
 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.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	495		99	20
208-96-8	Acenaphthylene	505		40	5.0
120-12-7	Anthracene	596		8.4	4.2
56-55-3	Benzo[a]anthracene	560		8.0	3.9
50-32-8	Benzo[a]pyrene	506		10	5.2
205-99-2	Benzo[b]fluoranthene	617		12	6.1
191-24-2	Benzo[g,h,i]perylene	530		20	4.4
207-08-9	Benzo[k]fluoranthene	540		8.0	3.6
218-01-9	Chrysene	588		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	548		20	4.1
206-44-0	Fluoranthene	559		20	4.0
86-73-7	Fluorene	598		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	541		20	7.1
90-12-0	1-Methylnaphthalene	602		40	4.4
91-57-6	2-Methylnaphthalene	588		40	7.1
91-20-3	Naphthalene	565		40	4.4
85-01-8	Phenanthrene	552		8.0	3.9
129-00-0	Pyrene	536		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18019.D  
 Lab Smp Id: lcs 660-136542/2-a  
 Inj Date : 18-APR-2013 16:54  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-136542/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 19 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	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	CONCENTRATIONS					
			ON-COLUMN	FINAL	RT	EXP RT	REL RT	RESPONSE
* 1 Naphthalene-d8	136		40.0000		3.657	3.663	(1.000)	208471
* 6 Acenaphthene-d10	164		40.0000		4.745	4.745	(1.000)	164077
* 10 Phenanthrene-d10	188		40.0000		5.692	5.692	(1.000)	297835
\$ 14 o-Terphenyl	230		7.99498	530.1707	5.939	5.945	(1.043)	36030
* 18 Chrysene-d12	240		40.0000		7.621	7.627	(1.000)	361054
* 23 Perylene-d12	264		40.0000		8.780	8.780	(1.000)	351740
2 Naphthalene	128		8.51845	564.8840	3.674	3.674	(1.005)	48004
3 2-Methylnaphthalene	142		8.86736	588.0213	4.098	4.098	(1.121)	32392
4 1-Methylnaphthalene	142		9.07959	602.0948	4.163	4.163	(1.138)	32683
5 Acenaphthylene	152		7.61433	504.9287	4.657	4.663	(0.981)	52939
7 Acenaphthene	154		7.46867	495.2697	4.768	4.769	(1.005)	31293
9 Fluorene	166		9.01357	597.7171	5.086	5.086	(1.072)	48060
11 Phenanthrene	178		8.31905	551.6610	5.704	5.704	(1.002)	72593
12 Anthracene	178		8.98944	596.1170	5.739	5.739	(1.008)	77727



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.851	5.851	(1.028)	72884	9.05066	600.1765
15 Fluoranthene	202	6.539	6.539	(1.149)	81490	8.43422	559.2983
16 Pyrene	202	6.704	6.704	(0.880)	83071	8.08744	536.3023
17 Benzo(a)anthracene	228	7.615	7.615	(0.999)	86179	8.44073	559.7301
19 Chrysene	228	7.645	7.645	(1.003)	89608	8.87196	588.3261
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	82618	9.29958	616.6831
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	81901	8.14709	540.2580
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	70020	7.62470	505.6166
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.898	(1.127)	68559	8.15395	540.7131(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.129)	70400	8.26316	547.9551
26 Benzo(g,h,i)perylene	276	10.221	10.233	(1.164)	68809	7.99402	530.1074

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD18019.D

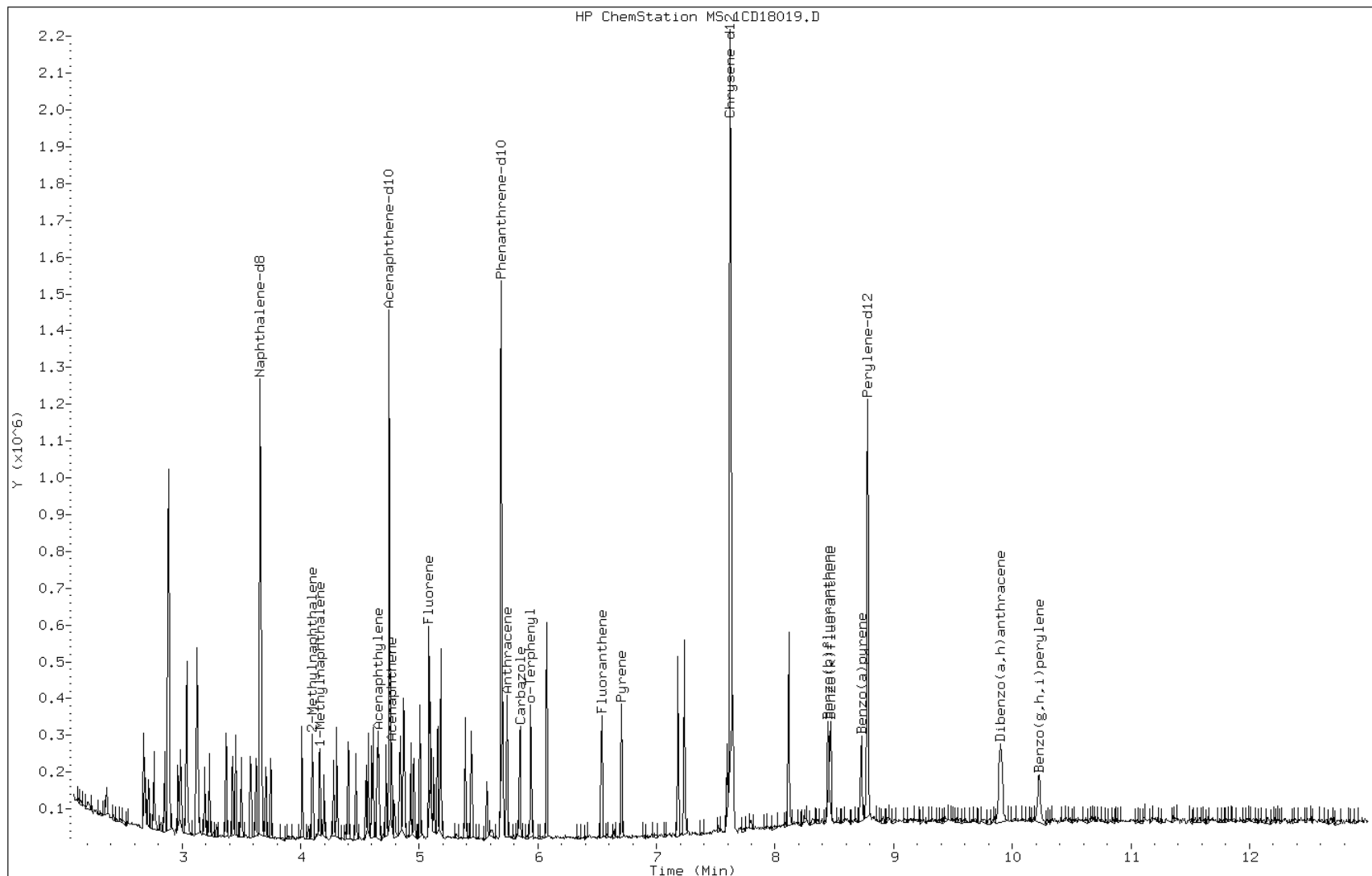
Date: 18-APR-2013 16:54

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136542/2-a

Operator: SCC

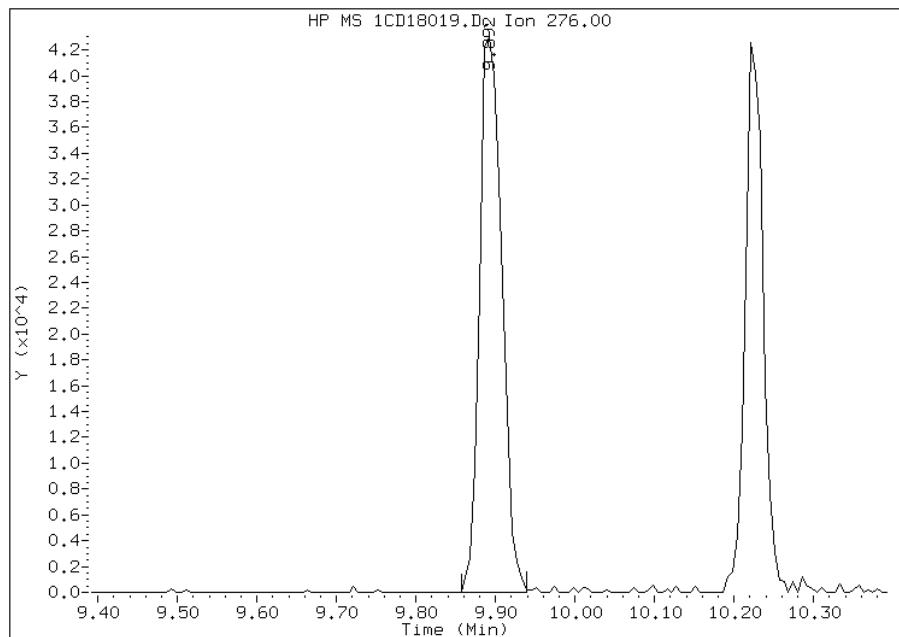


# Manual Integration Report

Data File: 1CD18019.D  
Inj. Date and Time: 18-APR-2013 16:54  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

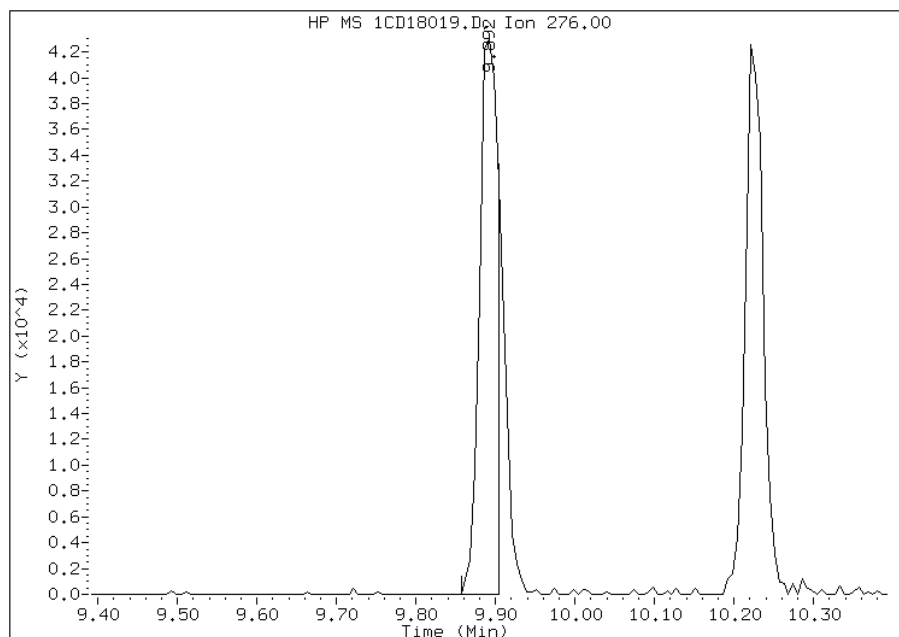
## Processing Integration Results

RT: 9.89  
Response: 83173  
Amount: 10  
Conc: 647



## Manual Integration Results

RT: 9.89  
Response: 68559  
Amount: 8  
Conc: 541



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 10:02  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0147A-CS MS Lab Sample ID: 680-89220-21 MS  
 Matrix: Solid Lab File ID: 1CD18021.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 09:30  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.37(g) Date Analyzed: 04/18/2013 17:30  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 32.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	732		150	29
208-96-8	Acenaphthylene	859		58	7.3
120-12-7	Anthracene	850		12	6.1
56-55-3	Benzo[a]anthracene	944		12	5.7
50-32-8	Benzo[a]pyrene	843		15	7.5
205-99-2	Benzo[b]fluoranthene	1050		18	8.8
191-24-2	Benzo[g,h,i]perylene	863		29	6.4
207-08-9	Benzo[k]fluoranthene	795		12	5.2
218-01-9	Chrysene	859		13	6.5
53-70-3	Dibenz(a,h)anthracene	802		29	5.9
206-44-0	Fluoranthene	1000		29	5.8
86-73-7	Fluorene	742		29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	829		29	10
90-12-0	1-Methylnaphthalene	752		58	6.4
91-57-6	2-Methylnaphthalene	848		58	10
91-20-3	Naphthalene	825		58	6.4
85-01-8	Phenanthrene	878		12	5.7
129-00-0	Pyrene	944		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18021.D  
 Lab Smp Id: 680-89220-a-21-b ms  
 Inj Date : 18-APR-2013 17:30  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-21-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 21 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	247750	40.0000	
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	166232	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	305144	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	33427	7.30486	475.2674
* 18 Chrysene-d12	240		7.621	7.627	(1.000)	358753	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	346193	40.0000	
2 Naphthalene	128		3.674	3.674	(1.003)	57159	8.53493	555.2978
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	38061	8.77044	570.6204
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	33282	7.78011	506.1879
5 Acenaphthylene	152		4.657	4.663	(0.981)	62594	8.88631	578.1594
7 Acenaphthene	154		4.768	4.769	(1.005)	32120	7.56667	492.3009
9 Fluorene	166		5.086	5.086	(1.072)	41459	7.67477	499.3342
11 Phenanthrene	178		5.704	5.704	(1.002)	81220	9.08643	591.1795
12 Anthracene	178		5.739	5.739	(1.008)	77886	8.79207	572.0281

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.851	5.851	(1.028)	70852	8.58759	558.7239
15 Fluoranthene	202	6.539	6.539	(1.149)	102557	10.3604	674.0667
16 Pyrene	202	6.704	6.704	(0.880)	99631	9.76186	635.1244
17 Benzo(a)anthracene	228	7.615	7.615	(0.999)	99022	9.76083	635.0574
19 Chrysene	228	7.645	7.645	(1.003)	89175	8.88572	578.1207
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	95317	10.9009	709.2326
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	81409	8.22791	535.3223
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	78806	8.71893	567.2695
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.898	(1.127)	71286	8.57805	558.1032(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.129)	69543	8.29173	539.4747
26 Benzo(g,h,i)perylene	276	10.221	10.233	(1.164)	75668	8.93173	581.1147

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD18021.D

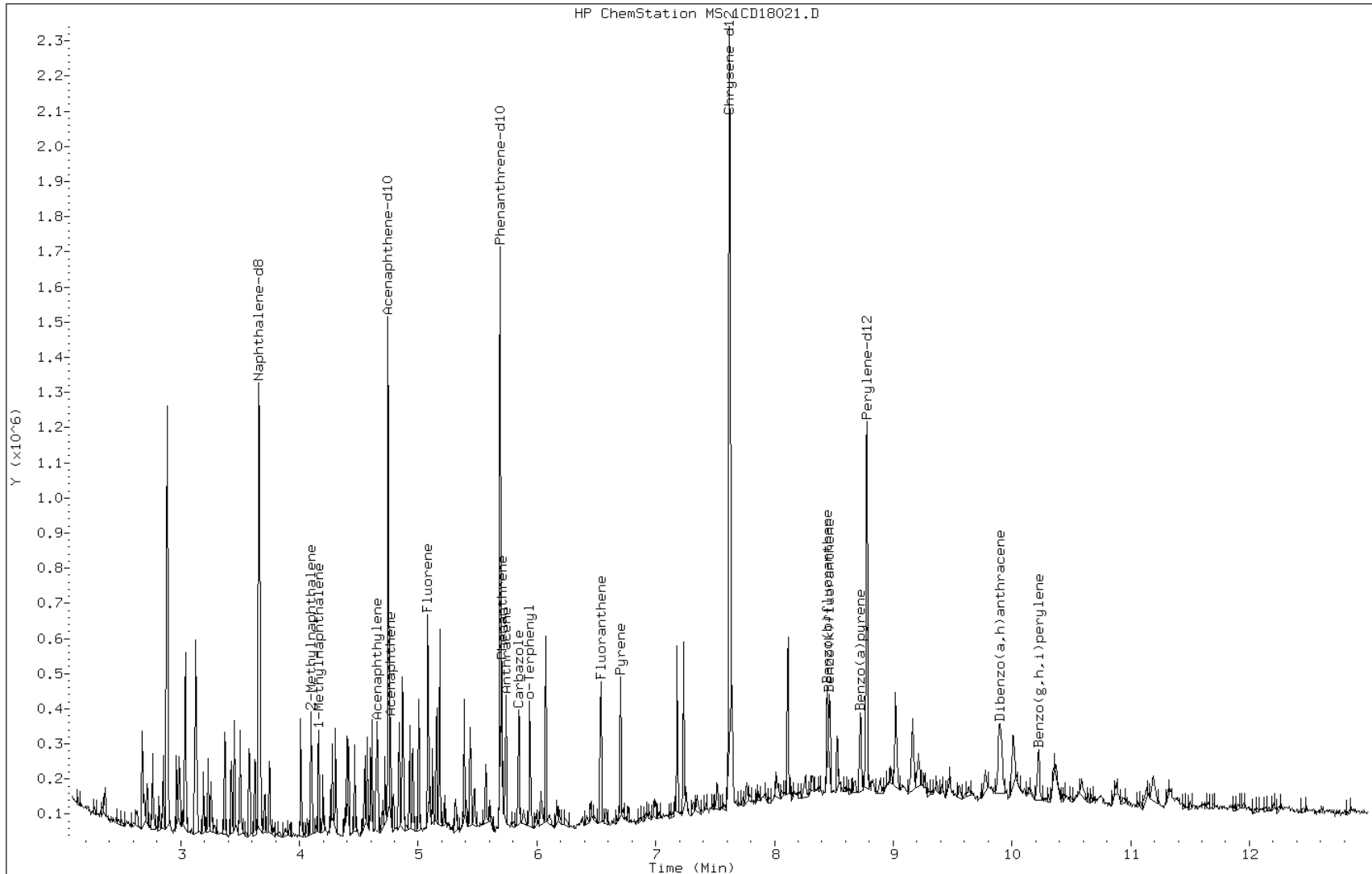
Date: 18-APR-2013 17:30

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-b ms

Operator: SCC

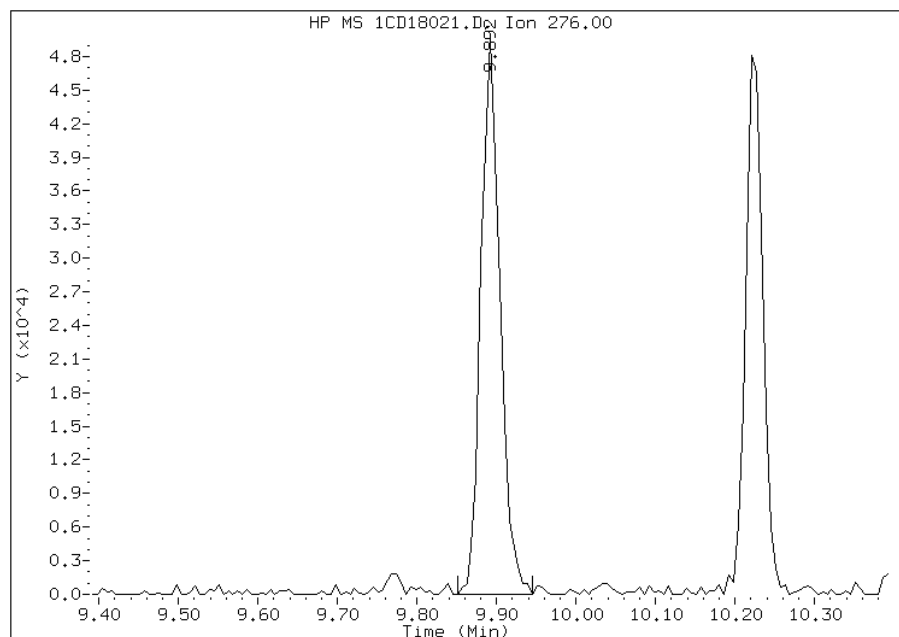


# Manual Integration Report

Data File: 1CD18021.D  
Inj. Date and Time: 18-APR-2013 17:30  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

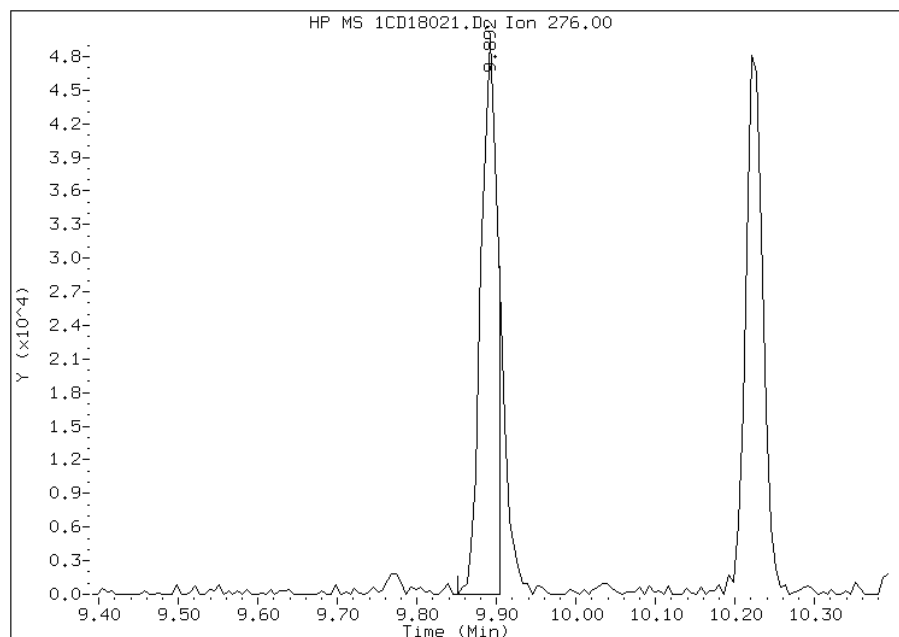
## Processing Integration Results

RT: 9.89  
Response: 82313  
Amount: 10  
Conc: 638



## Manual Integration Results

RT: 9.89  
Response: 71286  
Amount: 9  
Conc: 558



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 10:55  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2  
 SDG No.: 68089220-2  
 Client Sample ID: FM0147A-CS MSD Lab Sample ID: 680-89220-21 MSD  
 Matrix: Solid Lab File ID: 1CD18022.D  
 Analysis Method: 8270C LL Date Collected: 04/09/2013 09:30  
 Extract. Method: 3546 Date Extracted: 04/17/2013 13:21  
 Sample wt/vol: 15.07(g) Date Analyzed: 04/18/2013 17:49  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 32.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	912		150	30
208-96-8	Acenaphthylene	893		59	7.4
120-12-7	Anthracene	961		12	6.2
56-55-3	Benzo[a]anthracene	1100		12	5.8
50-32-8	Benzo[a]pyrene	936		15	7.7
205-99-2	Benzo[b]fluoranthene	1210		18	9.0
191-24-2	Benzo[g,h,i]perylene	982		30	6.5
207-08-9	Benzo[k]fluoranthene	984		12	5.3
218-01-9	Chrysene	1000		13	6.7
53-70-3	Dibenz(a,h)anthracene	947		30	6.1
206-44-0	Fluoranthene	1120		30	5.9
86-73-7	Fluorene	992		30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	866		30	11
90-12-0	1-Methylnaphthalene	893		59	6.5
91-57-6	2-Methylnaphthalene	934		59	11
91-20-3	Naphthalene	879		59	6.5
85-01-8	Phenanthrene	901		12	5.8
129-00-0	Pyrene	1060		30	5.5

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18022.D  
 Lab Smp Id: 680-89220-a-21-c ms  
 Inj Date : 18-APR-2013 17:49  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89220-a-21-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m  
 Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 22 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	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	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	3.657	3.663	(1.000)	230007	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.745	(1.000)	161573	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	304349	40.0000	
\$ 14 o-Terphenyl	230	5.939	5.945	(1.043)	38926	8.41323	558.2770
* 18 Chrysene-d12	240	7.627	7.627	(1.000)	357523	40.0000	
* 23 Perylene-d12	264	8.780	8.780	(1.000)	334365	40.0000	
2 Naphthalene	128	3.674	3.674	(1.005)	55443	8.91732	591.7268
3 2-Methylnaphthalene	142	4.098	4.098	(1.121)	38239	9.46877	628.3189
4 1-Methylnaphthalene	142	4.162	4.163	(1.138)	35956	9.05358	600.7683
5 Acenaphthylene	152	4.657	4.663	(0.981)	61991	9.05448	600.8278
7 Acenaphthene	154	4.768	4.769	(1.005)	38181	9.25384	614.0572
9 Fluorene	166	5.086	5.086	(1.072)	52800	10.0560	667.2873
11 Phenanthrene	178	5.704	5.704	(1.002)	81428	9.13360	606.0785
12 Anthracene	178	5.739	5.739	(1.008)	86107	9.74548	646.6808

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.851	5.851	(1.028)	75424	9.16561	608.2026
15 Fluoranthene	202	6.539	6.539	(1.149)	112007	11.3446	752.7943
16 Pyrene	202	6.704	6.704	(0.879)	109825	10.7977	716.5024
17 Benzo(a)anthracene	228	7.615	7.615	(0.998)	112926	11.1697	741.1863
19 Chrysene	228	7.645	7.645	(1.002)	101468	10.1454	673.2195
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	103304	12.2323	811.6963
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	95399	9.98293	662.4374
22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	82882	9.49427	630.0115
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.898	(1.126)	70652	8.78577	582.9973(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.129)	78395	9.60309	637.2322
26 Benzo(g,h,i)perylene	276	10.221	10.233	(1.164)	81458	9.95531	660.6043

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD18022.D

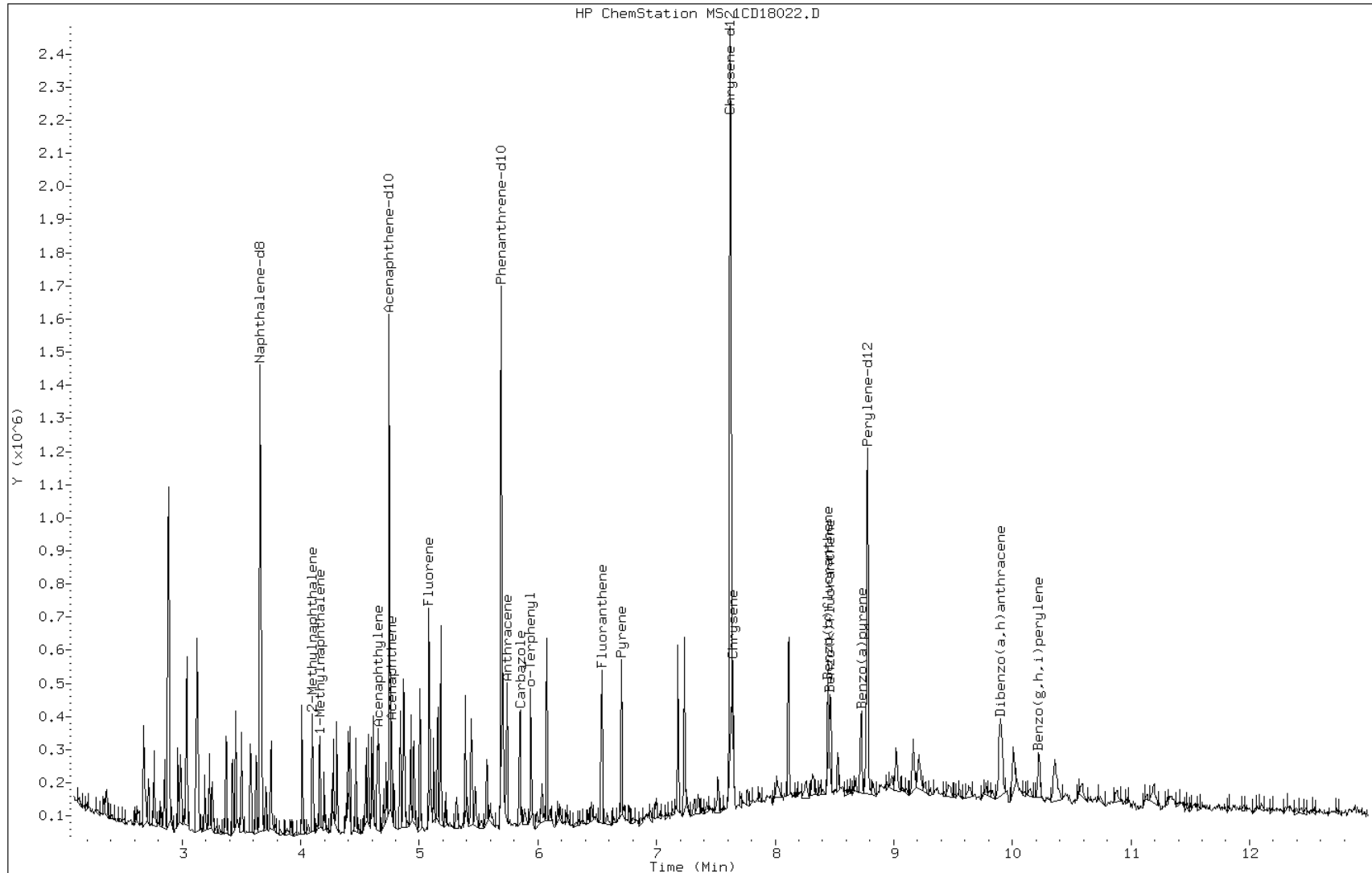
Date: 18-APR-2013 17:49

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89220-a-21-c msd

Operator: SCC

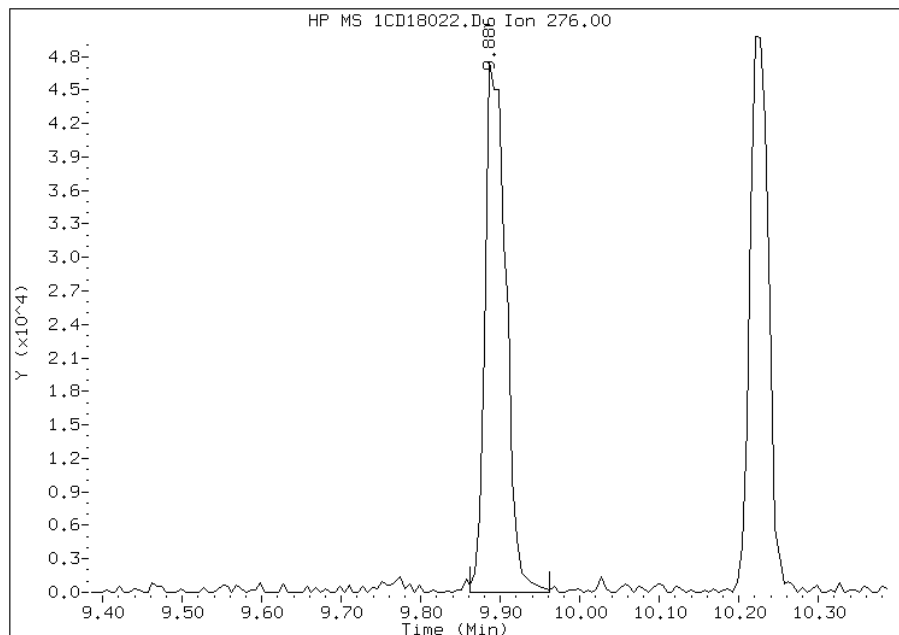


# Manual Integration Report

Data File: 1CD18022.D  
Inj. Date and Time: 18-APR-2013 17:49  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/19/2013

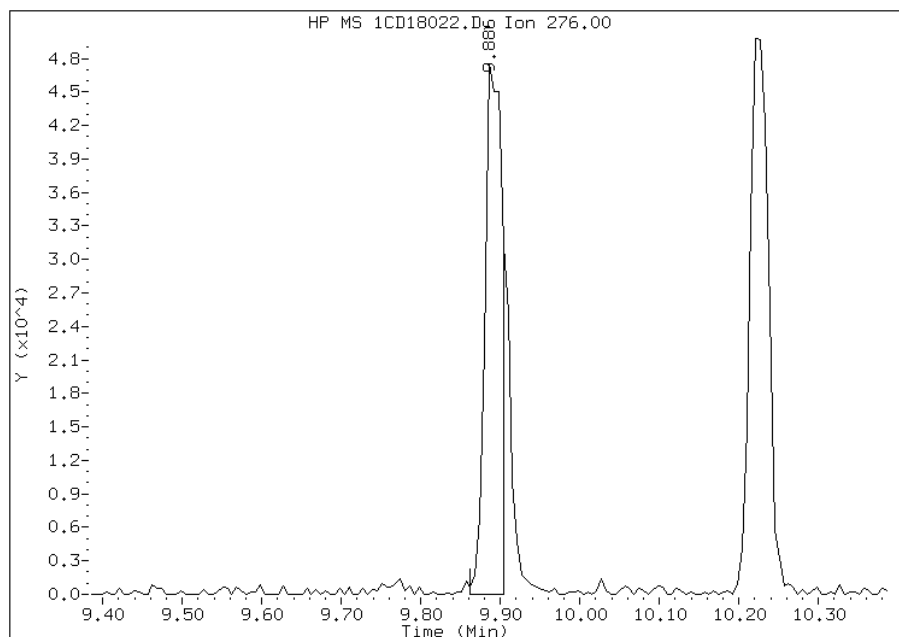
## Processing Integration Results

RT: 9.89  
Response: 86810  
Amount: 11  
Conc: 707



## Manual Integration Results

RT: 9.89  
Response: 70652  
Amount: 9  
Conc: 583



Manually Integrated By: cantins  
Modification Date: 19-Apr-2013 10:56  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973Start Date: 04/11/2013 11:01Analysis Batch Number: 136370End Date: 04/11/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 11:01	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 11:20	1		DB-5MS 250 (um)
DFTPP 660-136370/2		04/11/2013 11:38	1	1CD11002.D	DB-5MS 250 (um)
ICIS 660-136370/3		04/11/2013 11:56	1	1CD11003.D	DB-5MS 250 (um)
IC 660-136370/4		04/11/2013 12:35	1	1CD11004.D	DB-5MS 250 (um)
IC 660-136370/5		04/11/2013 12:53	1	1CD11005.D	DB-5MS 250 (um)
IC 660-136370/6		04/11/2013 13:11	1	1CD11006.D	DB-5MS 250 (um)
IC 660-136370/7		04/11/2013 13:30	1	1CD11007.D	DB-5MS 250 (um)
IC 660-136370/8		04/11/2013 13:48	1	1CD11008.D	DB-5MS 250 (um)
IC 660-136370/9		04/11/2013 14:06	1	1CD11009.D	DB-5MS 250 (um)
ICV 660-136370/10		04/11/2013 14:25	1	1CD11010.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 14:51	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 15:10	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 15:28	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 15:46	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:05	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:23	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:41	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:00	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:18	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:36	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:54	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:13	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:31	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:49	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:08	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:26	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:44	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:03	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:21	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:39	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:58	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:16	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:34	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:53	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973Start Date: 04/18/2013 11:08Analysis Batch Number: 136605End Date: 04/18/2013 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/18/2013 11:08	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 11:26	1		DB-5MS 250 (um)
DFTPP 660-136605/2		04/18/2013 11:44	1	1CD18002.D	DB-5MS 250 (um)
CCVIS 660-136605/3		04/18/2013 12:01	1	1CD18003.D	DB-5MS 250 (um)
ZZZZZ		04/18/2013 12:19	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 12:37	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 12:56	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 13:14	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 13:32	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 13:51	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 14:09	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 14:27	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 14:46	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 15:04	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 15:22	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 15:41	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 15:59	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 16:17	1		DB-5MS 250 (um)
MB 660-136542/1-A		04/18/2013 16:36	1	1CD18018.D	DB-5MS 250 (um)
LCS 660-136542/2-A		04/18/2013 16:54	1	1CD18019.D	DB-5MS 250 (um)
680-89220-21	FM0147A-CS	04/18/2013 17:12	1	1CD18020.D	DB-5MS 250 (um)
680-89220-21 MS	FM0147A-CS MS	04/18/2013 17:30	1	1CD18021.D	DB-5MS 250 (um)
680-89220-21 MSD	FM0147A-CS MSD	04/18/2013 17:49	1	1CD18022.D	DB-5MS 250 (um)
680-89220-22	FM0147B-CS	04/18/2013 18:07	1	1CD18023.D	DB-5MS 250 (um)
680-89220-23	FM0249A-CS	04/18/2013 18:25	1	1CD18024.D	DB-5MS 250 (um)
680-89220-24	FM0252A-CS	04/18/2013 18:44	1	1CD18025.D	DB-5MS 250 (um)
680-89220-25	FM0252B-CS	04/18/2013 19:02	1	1CD18026.D	DB-5MS 250 (um)
680-89220-26	FM0252B-CSD	04/18/2013 19:20	1	1CD18027.D	DB-5MS 250 (um)
680-89220-27	FM0351A-CS	04/18/2013 19:39	1	1CD18028.D	DB-5MS 250 (um)
680-89220-28	FM0351B-CS	04/18/2013 19:57	1	1CD18029.D	DB-5MS 250 (um)
680-89220-29	FM0351C-CS	04/18/2013 20:15	1	1CD18030.D	DB-5MS 250 (um)
680-89220-30	CV0675A-CS-SP	04/18/2013 20:34	1	1CD18031.D	DB-5MS 250 (um)
680-89220-31	CV0675B-CS-SP	04/18/2013 20:52	1	1CD18032.D	DB-5MS 250 (um)
680-89220-32	CV0928A-CS-SP	04/18/2013 21:10	1	1CD18033.D	DB-5MS 250 (um)
680-89220-33	CV0928B-CS-SP	04/18/2013 21:29	1	1CD18034.D	DB-5MS 250 (um)
680-89220-34	CV1337A-CS-SP	04/18/2013 21:47	1	1CD18035.D	DB-5MS 250 (um)
680-89220-35	CV1337B-CS-SP	04/18/2013 22:05	1	1CD18036.D	DB-5MS 250 (um)
680-89220-36	CV1338A-CS-SP	04/18/2013 22:24	1	1CD18037.D	DB-5MS 250 (um)
680-89220-37	CV1338B-CS-SP	04/18/2013 22:42	1	1CD18038.D	DB-5MS 250 (um)
680-89220-38	HP0140A-CS-SP	04/18/2013 23:00	1	1CD18039.D	DB-5MS 250 (um)
680-89220-39	HP0140B-CS-SP	04/18/2013 23:19	1	1CD18040.D	DB-5MS 250 (um)
680-89220-40	HP0142A-CS-SP	04/18/2013 23:37	1	1CD18041.D	DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89220-2SDG No.: 68089220-2Instrument ID: BSMC5973Start Date: 04/19/2013 10:31Analysis Batch Number: 136655End Date: 04/19/2013 21:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/19/2013 10:31	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 10:49	1		DB-5MS 250 (um)
DFTPP 660-136655/2		04/19/2013 11:08	1	1CD19002.D	DB-5MS 250 (um)
CCVIS 660-136655/3		04/19/2013 11:24	1	1CD19003.D	DB-5MS 250 (um)
ZZZZZ		04/19/2013 11:45	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 12:04	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 12:22	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 12:40	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 12:58	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 13:17	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 13:35	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 13:53	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 14:23	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 14:42	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 15:08	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 15:26	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 15:44	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 16:02	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 16:21	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 16:39	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 16:57	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 17:16	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 17:34	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 17:52	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 18:10	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 18:29	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 18:47	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 19:05	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 19:23	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 19:42	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 20:00	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 20:18	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 20:37	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 20:55	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 21:13	1		DB-5MS 250 (um)
ZZZZZ		04/19/2013 21:32	1		DB-5MS 250 (um)
680-89220-28 DL	FM0351B-CS DL	04/19/2013 21:50	20	1CD19036.D	DB-5MS 250 (um)



## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2SDG No.: 68089220-2Batch Number: 136542 Batch Start Date: 04/17/13 13:21 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 04/18/13 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136542/1		3546, 8270C LL		14.98 g	1 mL		1 mL		
LCS 660-136542/2		3546, 8270C LL		15.08 g	1 mL	1 mL	1 mL		
680-89220-A-21	FM0147A-CS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-89220-A-21 MS	FM0147A-CS	3546, 8270C LL	T	15.37 g	1 mL	1 mL	1 mL		
680-89220-A-21 MSD	FM0147A-CS	3546, 8270C LL	T	15.07 g	1 mL	1 mL	1 mL		
680-89220-A-22	FM0147B-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-89220-A-23	FM0249A-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-89220-A-24	FM0252A-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-89220-A-25	FM0252B-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-89220-A-26	FM0252B-CSD	3546, 8270C LL	T	14.82 g	1 mL		1 mL		
680-89220-A-27	FM0351A-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-89220-A-28	FM0351B-CS	3546, 8270C LL	T	14.86 g	1 mL		1 mL		
680-89220-A-29	FM0351C-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-89220-A-30	CV0675A-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89220-A-31	CV0675B-CS-SP	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-89220-A-32	CV0928A-CS-SP	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-89220-A-33	CV0928B-CS-SP	3546, 8270C LL	T	15.39 g	1 mL		1 mL		
680-89220-A-34	CV1337A-CS-SP	3546, 8270C LL	T	14.80 g	1 mL		1 mL		
680-89220-A-35	CV1337B-CS-SP	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-89220-A-36	CV1338A-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89220-A-37	CV1338B-CS-SP	3546, 8270C LL	T	15.39 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2

SDG No.: 68089220-2

Batch Number: 136542 Batch Start Date: 04/17/13 13:21 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/18/13 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
680-89220-A-38	HP0140A-CS-SP	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-89220-A-39	HP0140B-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-89220-A-40	HP0142A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 67/68
Microwave Start Time	13:00 4/17/13
Microwave Stop Time	13:35 4/17/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 15
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# **GENERAL CHEMISTRY**

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-89220-2

SDG No.: 68089220-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0147A-CS	680-89220-21
FM0147B-CS	680-89220-22
FM0249A-CS	680-89220-23
FM0252A-CS	680-89220-24
FM0252B-CS	680-89220-25
FM0252B-CSD	680-89220-26
FM0351A-CS	680-89220-27
FM0351B-CS	680-89220-28
FM0351C-CS	680-89220-29
CV0675A-CS-SP	680-89220-30
CV0675B-CS-SP	680-89220-31
CV0928A-CS-SP	680-89220-32
CV0928B-CS-SP	680-89220-33
CV1337A-CS-SP	680-89220-34
CV1337B-CS-SP	680-89220-35
CV1338A-CS-SP	680-89220-36
CV1338B-CS-SP	680-89220-37
HP0140A-CS-SP	680-89220-38
HP0140B-CS-SP	680-89220-39
HP0142A-CS-SP	680-89220-40

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89220-2  
SDG Number: 68089220-2  
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: 680-89220-2  
SDG Number: 68089220-2  
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.: 680-89220-2

SDG No.: 68089220-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/16/2013 06:43 End Date: 04/16/2013 06:43

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
680-89220-A-9 MS	1	T	06:43	X															
680-89220-A-9 MSD	1	T	06:43	X															
680-89220-21	1	T	06:43	X															
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																

Prep Types  
T = Total/NA



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2

SDG No.: 68089220-2

Batch Number: 136459 Batch Start Date: 04/16/13 06:43 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89220-A-23	FM0249A-CS	Moisture	T	4	0 g	4.79 g	3.74 g		
680-89220-A-30	CV0675A-CS-SP	Moisture	T	5	0 g	4.42 g	2.87 g		
680-89220-A-24	FM0252A-CS	Moisture	T	12	0 g	4.39 g	3.03 g		
680-89220-A-28	FM0351B-CS	Moisture	T	14	0 g	4.27 g	2.97 g		
680-89220-A-27	FM0351A-CS	Moisture	T	15	0 g	4.63 g	3.04 g		
680-89220-A-37	CV1338B-CS-SP	Moisture	T	16	0 g	4.17 g	2.82 g		
680-89220-A-35	CV1337B-CS-SP	Moisture	T	17	0 g	4.51 g	2.65 g		
680-89220-A-39	HP0140B-CS-SP	Moisture	T	21	0 g	4.65 g	2.85 g		
680-89220-A-40	HP0142A-CS-SP	Moisture	T	27	0 g	4.24 g	2.80 g		
680-89220-A-36	CV1338A-CS-SP	Moisture	T	30	0 g	4.65 g	3.03 g		
680-89220-A-29	FM0351C-CS	Moisture	T	31	0 g	4.53 g	3.26 g		
680-89220-A-22	FM0147B-CS	Moisture	T	33	0 g	4.33 g	3.29 g		
680-89220-A-25	FM0252B-CS	Moisture	T	34	0 g	4.42 g	3.32 g		
680-89220-A-26	FM0252B-CSD	Moisture	T	35	0 g	4.96 g	3.32 g		
680-89220-A-38	HP0140A-CS-SP	Moisture	T	36	0 g	4.27 g	2.86 g		
680-89220-A-31	CV0675B-CS-SP	Moisture	T	37	0 g	4.61 g	3.18 g		
680-89220-A-32	CV0928A-CS-SP	Moisture	T	39	0 g	4.58 g	2.91 g		
680-89220-A-33	CV0928B-CS-SP	Moisture	T	40	0 g	4.66 g	2.73 g		
680-89220-A-34	CV1337A-CS-SP	Moisture	T	41	0 g	4.26 g	2.56 g		
680-89220-A-9		Moisture	T	42	0 g	4.23 g	2.82 g		
MS									
680-89220-A-9		Moisture	T	42	0 g	4.23 g	2.82 g		
MSD									
680-89220-A-21	FM0147A-CS	Moisture	T	43	0 g	4.74 g	3.19 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.16.13
Date samples were removed from oven	4.17.13

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-2

SDG No.: 68089220-2

Batch Number: 136459 Batch Start Date: 04/16/13 06:43 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

# Shipping and Receiving Documents

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 <i>35th Ave. Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i>	OF <i>4</i>
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**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

*LLPAH*  
*RCES Metals*  
**PRESERVATIVE**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
DATE DUE \_\_\_\_\_  
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS						
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED																
<i>4-8-13</i>	<i>1426</i>	<i>FM 117B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>1416</i>	<i>FM 117C-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>1434</i>	<i>FM 117D-GS-SP</i>	<i>G</i>	<i>X</i>			<i>X</i>																	
<i>4-9-13</i>	<i>1920</i>	<i>CV 116A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>																
	<i>1440</i>	<i>CV 1099A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>																
	<i>1335</i>	<i>CV 116A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>1335</i>	<i>CV 116A-CS D</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>1020</i>	<i>FM 147A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>0930</i>	<i>FM 147A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>0940</i>	<i>FM 147B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>0910</i>	<i>FM 249A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																	
	<i>0840</i>	<i>FM 252H-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																	

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-10-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/11/13</i>	TIME <i>1045</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89220</i>	LABORATORY REMARKS <i>2-2 c</i>
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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 Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 3	OF 4
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**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH  
**PRESERVATIVE**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
DATE DUE \_\_\_\_\_  
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

CLIENT ADDRESS  
COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME							1	2	3	4	5	6	7	8	9	10		
4-9-13	0850	FM0252B-CS	C	X			X												
	0850	FM0252B-CSD	C	X			X												
	1235	FM0351A-CS	C	X			X												
	1245	FM0351B-CS	C	X			X												
	1255	FM0351C-CS	C	X			X												
	1242	CV0675A-CS-SP	C	X			X												
	1252	CV0675B-CS-SP	C	X			X												
	1315	CV0928A-CS-SP	C	X			X												
	1325	CV0928B-CS-SP	C	X			X												
	1416	CV1337A-CS-SP	C	X			X												
	1425	CV1337B-CS-SP	C	X			X												
	1443	CV1338A-CS-SP	C	X			X												

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-10-13	TIME 1530	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 04/11/13	TIME 1045	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89270	LABORATORY REMARKS 2.2'
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## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2

SDG Number: 68089220-2

Login Number: 89220

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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?	N/A	
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 $<6\text{mm}$ (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: 680-89220-2

SDG Number: 68089220-2

**Login Number: 89220**  
**List Number: 1**  
**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**  
**List Creation: 04/15/13 04:19 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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Samples delayed by FedEx and Arrived out of Temperature
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.	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	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-89220-2

TestAmerica Sample Delivery Group: 68089220-2

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/23/2013 8:59:23 AM

Bernard Kirkland

Project Manager I

[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey

Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



### LINKS

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# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
SDG: 68089220-2

**Job ID: 680-89220-2**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89220-2**

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 04/11/2013 in Savannah; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt in Savannah was 2.2 C. Savannah shipped the samples for 8270 PAH analysis to Tampa on 04/11/2013. FEDEX lost track of the cooler, and did not deliver until 04/15/2013. The coolers were out of temp at receipt in Tampa.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0147A-CS (680-89220-21), FM0147B-CS (680-89220-22), FM0249A-CS (680-89220-23), FM0252A-CS (680-89220-24), FM0252B-CS (680-89220-25), FM0252B-CSD (680-89220-26), FM0351A-CS (680-89220-27), FM0351B-CS (680-89220-28), FM0351C-CS (680-89220-29), CV0675A-CS-SP (680-89220-30), CV0675B-CS-SP (680-89220-31), CV0928A-CS-SP (680-89220-32), CV0928B-CS-SP (680-89220-33), CV1337A-CS-SP (680-89220-34), CV1337B-CS-SP (680-89220-35), CV1338A-CS-SP (680-89220-36), CV1338B-CS-SP (680-89220-37), HP0140A-CS-SP (680-89220-38), HP0140B-CS-SP (680-89220-39) and HP0142A-CS-SP (680-89220-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013 and 04/19/2013.

Sample FM0351B-CS (680-89220-28)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
SDG: 68089220-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89220-21	FM0147A-CS	Solid	04/09/13 09:30	04/11/13 10:45
680-89220-22	FM0147B-CS	Solid	04/09/13 09:40	04/11/13 10:45
680-89220-23	FM0249A-CS	Solid	04/09/13 09:10	04/11/13 10:45
680-89220-24	FM0252A-CS	Solid	04/09/13 08:40	04/11/13 10:45
680-89220-25	FM0252B-CS	Solid	04/09/13 08:50	04/11/13 10:45
680-89220-26	FM0252B-CSD	Solid	04/09/13 08:50	04/11/13 10:45
680-89220-27	FM0351A-CS	Solid	04/09/13 12:35	04/11/13 10:45
680-89220-28	FM0351B-CS	Solid	04/09/13 12:45	04/11/13 10:45
680-89220-29	FM0351C-CS	Solid	04/09/13 12:55	04/11/13 10:45
680-89220-30	CV0675A-CS-SP	Solid	04/09/13 12:42	04/11/13 10:45
680-89220-31	CV0675B-CS-SP	Solid	04/09/13 12:52	04/11/13 10:45
680-89220-32	CV0928A-CS-SP	Solid	04/09/13 13:15	04/11/13 10:45
680-89220-33	CV0928B-CS-SP	Solid	04/09/13 13:25	04/11/13 10:45
680-89220-34	CV1337A-CS-SP	Solid	04/09/13 14:16	04/11/13 10:45
680-89220-35	CV1337B-CS-SP	Solid	04/09/13 14:25	04/11/13 10:45
680-89220-36	CV1338A-CS-SP	Solid	04/09/13 14:43	04/11/13 10:45
680-89220-37	CV1338B-CS-SP	Solid	04/09/13 14:52	04/11/13 10:45
680-89220-38	HP0140A-CS-SP	Solid	04/09/13 10:11	04/11/13 10:45
680-89220-39	HP0140B-CS-SP	Solid	04/09/13 10:22	04/11/13 10:45
680-89220-40	HP0142A-CS-SP	Solid	04/09/13 09:37	04/11/13 10:45

# Method Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
SDG: 68089220-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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# Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
SDG: 68089220-2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0147A-CS**

**Lab Sample ID: 680-89220-21**

Date Collected: 04/09/13 09:30

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Acenaphthylene	67		59	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Anthracene	50		12	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Benzo[a]anthracene	260		12	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Benzo[a]pyrene	250		15	7.6	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Benzo[b]fluoranthene	420		18	8.9	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Benzo[g,h,i]perylene	190		29	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Benzo[k]fluoranthene	150		12	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Chrysene	260		13	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Dibenz(a,h)anthracene	98		29	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Fluoranthene	330		29	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Fluorene	8.5	J	29	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Indeno[1,2,3-cd]pyrene	210		29	10	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
1-Methylnaphthalene	51	J	59	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
2-Methylnaphthalene	72		59	10	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Naphthalene	110		59	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Phenanthrene	110		12	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1
Pyrene	320		29	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		30 - 130	04/17/13 13:21	04/18/13 17:12	1

**Client Sample ID: FM0147B-CS**

**Lab Sample ID: 680-89220-22**

Date Collected: 04/09/13 09:40

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 76.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	32	J	130	26	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Acenaphthylene	40	J	53	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Anthracene	51		11	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Benzo[a]anthracene	240		11	5.1	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Benzo[a]pyrene	210		14	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Benzo[b]fluoranthene	370		16	8.0	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Benzo[g,h,i]perylene	190		26	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Benzo[k]fluoranthene	170		11	4.7	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Chrysene	320		12	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Dibenz(a,h)anthracene	110		26	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Fluoranthene	370		26	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Fluorene	32		26	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Indeno[1,2,3-cd]pyrene	150		26	9.3	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
1-Methylnaphthalene	190		53	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
2-Methylnaphthalene	210		53	9.3	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Naphthalene	150		53	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Phenanthrene	420		11	5.1	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1
Pyrene	370		26	4.9	ug/Kg	☼	04/17/13 13:21	04/18/13 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130	04/17/13 13:21	04/18/13 18:07	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0249A-CS**

**Lab Sample ID: 680-89220-23**

Date Collected: 04/09/13 09:10

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 78.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	63	J	130	26	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Acenaphthylene	250		52	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Anthracene	360		11	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Benzo[a]anthracene	1300		10	5.0	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Benzo[a]pyrene	1300		13	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Benzo[b]fluoranthene	2500		16	7.9	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Benzo[g,h,i]perylene	1200		26	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Benzo[k]fluoranthene	1300		10	4.6	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Chrysene	1500		12	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Dibenz(a,h)anthracene	390		26	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Fluoranthene	2700		26	5.2	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Fluorene	66		26	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Indeno[1,2,3-cd]pyrene	940		26	9.1	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
1-Methylnaphthalene	130		52	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
2-Methylnaphthalene	180		52	9.1	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Naphthalene	220		52	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Phenanthrene	1500		10	5.0	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
Pyrene	2300		26	4.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	74		30 - 130				04/17/13 13:21	04/18/13 18:25	1

**Client Sample ID: FM0252A-CS**

**Lab Sample ID: 680-89220-24**

Date Collected: 04/09/13 08:40

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Acenaphthylene	51	J	57	7.1	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Anthracene	49		12	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Benzo[a]anthracene	270		11	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Benzo[a]pyrene	320		15	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Benzo[b]fluoranthene	520		17	8.6	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Benzo[g,h,i]perylene	270		28	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Benzo[k]fluoranthene	280		11	5.1	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Chrysene	350		13	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Dibenz(a,h)anthracene	140		28	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Fluoranthene	520		28	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Fluorene	27	J	28	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Indeno[1,2,3-cd]pyrene	250		28	10	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
1-Methylnaphthalene	45	J	57	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
2-Methylnaphthalene	110		57	10	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Naphthalene	150		57	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Phenanthrene	250		11	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
Pyrene	520		28	5.2	ug/Kg	☼	04/17/13 13:21	04/18/13 18:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	48		30 - 130				04/17/13 13:21	04/18/13 18:44	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0252B-CS**

**Lab Sample ID: 680-89220-25**

Date Collected: 04/09/13 08:50

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 75.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	130	26	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Acenaphthylene	74		53	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Anthracene	110		11	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Benzo[a]anthracene	580		11	5.1	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Benzo[a]pyrene	480		14	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Benzo[b]fluoranthene	850		16	8.0	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Benzo[g,h,i]perylene	400		26	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Benzo[k]fluoranthene	350		11	4.7	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Chrysene	570		12	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Dibenz(a,h)anthracene	150		26	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Fluoranthene	840		26	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Fluorene	25	J	26	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Indeno[1,2,3-cd]pyrene	360		26	9.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
1-Methylnaphthalene	210		53	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
2-Methylnaphthalene	250		53	9.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Naphthalene	160		53	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Phenanthrene	560		11	5.1	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1
Pyrene	730		26	4.9	ug/Kg	☼	04/17/13 13:21	04/18/13 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		30 - 130	04/17/13 13:21	04/18/13 19:02	1

**Client Sample ID: FM0252B-CSD**

**Lab Sample ID: 680-89220-26**

Date Collected: 04/09/13 08:50

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 66.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	J	150	30	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Acenaphthylene	61		60	7.6	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Anthracene	230		13	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Benzo[a]anthracene	1100		12	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Benzo[a]pyrene	960		16	7.9	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Benzo[b]fluoranthene	1800		18	9.2	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Benzo[g,h,i]perylene	850		30	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Benzo[k]fluoranthene	640		12	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Chrysene	1300		14	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Dibenz(a,h)anthracene	300		30	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Fluoranthene	1900		30	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Fluorene	110		30	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Indeno[1,2,3-cd]pyrene	690		30	11	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
1-Methylnaphthalene	140		60	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
2-Methylnaphthalene	170		60	11	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Naphthalene	150		60	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Phenanthrene	940		12	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1
Pyrene	1700		30	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		30 - 130	04/17/13 13:21	04/18/13 19:20	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: FM0351A-CS**

**Lab Sample ID: 680-89220-27**

Date Collected: 04/09/13 12:35

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 65.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	150	30	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Acenaphthylene	20	J	59	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Anthracene	26		12	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Benzo[a]anthracene	190		12	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Benzo[a]pyrene	180		15	7.7	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Benzo[b]fluoranthene	290		18	9.1	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Benzo[g,h,i]perylene	130		30	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Benzo[k]fluoranthene	120		12	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Chrysene	210		13	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Dibenz(a,h)anthracene	94		30	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Fluoranthene	380		30	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Fluorene	13	J	30	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Indeno[1,2,3-cd]pyrene	170		30	11	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
1-Methylnaphthalene	13	J	59	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
2-Methylnaphthalene	48	J	59	11	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Naphthalene	42	J	59	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Phenanthrene	150		12	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
Pyrene	300		30	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 19:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	70		30 - 130				04/17/13 13:21	04/18/13 19:39	1

**Client Sample ID: FM0351B-CS**

**Lab Sample ID: 680-89220-28**

Date Collected: 04/09/13 12:45

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100		150	29	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
Acenaphthylene	640		58	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
Anthracene	3700		12	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
Dibenz(a,h)anthracene	4400		29	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
Fluorene	1300		29	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
1-Methylnaphthalene	390		58	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
2-Methylnaphthalene	370		58	10	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
Naphthalene	500		58	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 19:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	86		30 - 130				04/17/13 13:21	04/18/13 19:57	1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	19000		230	110	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Benzo[a]pyrene	18000		300	150	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Benzo[b]fluoranthene	27000		350	180	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Benzo[g,h,i]perylene	11000		580	130	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Benzo[k]fluoranthene	11000		230	100	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Chrysene	17000		260	130	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Fluoranthene	43000		580	120	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Indeno[1,2,3-cd]pyrene	10000		580	210	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Client Sample ID: FM0351B-CS

Lab Sample ID: 680-89220-28

Date Collected: 04/09/13 12:45

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.6

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	20000		230	110	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20
Pyrene	32000		580	110	ug/Kg	☼	04/17/13 13:21	04/19/13 21:50	20

## Client Sample ID: FM0351C-CS

Lab Sample ID: 680-89220-29

Date Collected: 04/09/13 12:55

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 72.0

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Acenaphthylene	22	J	54	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Anthracene	81		11	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Benzo[a]anthracene	200		11	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Benzo[a]pyrene	220		14	7.1	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Benzo[b]fluoranthene	460		17	8.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Benzo[g,h,i]perylene	200		27	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Benzo[k]fluoranthene	120		11	4.9	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Chrysene	330		12	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Dibenz(a,h)anthracene	85		27	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Fluoranthene	480		27	5.4	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Fluorene	35		27	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Indeno[1,2,3-cd]pyrene	210		27	9.7	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
1-Methylnaphthalene	70		54	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
2-Methylnaphthalene	77		54	9.7	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Naphthalene	81		54	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Phenanthrene	260		11	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1
Pyrene	430		27	5.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		30 - 130	04/17/13 13:21	04/18/13 20:15	1

## Client Sample ID: CV0675A-CS-SP

Lab Sample ID: 680-89220-30

Date Collected: 04/09/13 12:42

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 64.9

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Acenaphthylene	44	J	61	7.7	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Anthracene	86		13	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Benzo[a]anthracene	200		12	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Benzo[a]pyrene	280		16	8.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Benzo[b]fluoranthene	520		19	9.4	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Benzo[g,h,i]perylene	200		31	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Benzo[k]fluoranthene	170		12	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Chrysene	380		14	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Dibenz(a,h)anthracene	130		31	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Fluoranthene	260		31	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Fluorene	12	J	31	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Indeno[1,2,3-cd]pyrene	240		31	11	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: CV0675A-CS-SP**

**Lab Sample ID: 680-89220-30**

Date Collected: 04/09/13 12:42

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 64.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	120		61	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
2-Methylnaphthalene	170		61	11	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Naphthalene	180		61	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Phenanthrene	230		12	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
Pyrene	250		31	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 20:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	81		30 - 130				04/17/13 13:21	04/18/13 20:34	1

**Client Sample ID: CV0675B-CS-SP**

**Lab Sample ID: 680-89220-31**

Date Collected: 04/09/13 12:52

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Acenaphthylene	48	J	57	7.1	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Anthracene	42		12	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Benzo[a]anthracene	170		11	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Benzo[a]pyrene	160		15	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Benzo[b]fluoranthene	290		17	8.7	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Benzo[g,h,i]perylene	120		29	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Benzo[k]fluoranthene	170		11	5.1	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Chrysene	260		13	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Dibenz(a,h)anthracene	29	U	29	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Fluoranthene	490		29	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Fluorene	14	J	29	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Indeno[1,2,3-cd]pyrene	180		29	10	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
1-Methylnaphthalene	50	J	57	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
2-Methylnaphthalene	69		57	10	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Naphthalene	80		57	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Phenanthrene	380		11	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
Pyrene	370		29	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 20:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 20:52	1

**Client Sample ID: CV0928A-CS-SP**

**Lab Sample ID: 680-89220-32**

Date Collected: 04/09/13 13:15

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 63.5

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Acenaphthylene	34	J	62	7.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Anthracene	20		13	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Benzo[a]anthracene	110		12	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Benzo[a]pyrene	86		16	8.1	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Benzo[b]fluoranthene	180		19	9.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Benzo[g,h,i]perylene	73		31	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Client Sample ID: CV0928A-CS-SP

## Lab Sample ID: 680-89220-32

Date Collected: 04/09/13 13:15

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 63.5

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	23		12	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Chrysene	86		14	7.0	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Dibenz(a,h)anthracene	31	U	31	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Fluoranthene	100		31	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Fluorene	31	U	31	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Indeno[1,2,3-cd]pyrene	150		31	11	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
1-Methylnaphthalene	34	J	62	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
2-Methylnaphthalene	67		62	11	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Naphthalene	28	J	62	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Phenanthrene	68		12	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
Pyrene	120		31	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	82		30 - 130				04/17/13 13:21	04/18/13 21:10	1

## Client Sample ID: CV0928B-CS-SP

## Lab Sample ID: 680-89220-33

Date Collected: 04/09/13 13:25

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 58.6

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	33	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Acenaphthylene	32	J	67	8.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Anthracene	42		14	7.0	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[a]anthracene	89		13	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[a]pyrene	130		17	8.7	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[b]fluoranthene	220		20	10	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[g,h,i]perylene	100		33	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Benzo[k]fluoranthene	97		13	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Chrysene	180		15	7.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Dibenz(a,h)anthracene	100		33	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Fluoranthene	170		33	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Fluorene	11	J	33	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Indeno[1,2,3-cd]pyrene	160		33	12	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
1-Methylnaphthalene	41	J	67	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
2-Methylnaphthalene	110		67	12	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Naphthalene	55	J	67	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Phenanthrene	110		13	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
Pyrene	190		33	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 21:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	80		30 - 130				04/17/13 13:21	04/18/13 21:29	1

## Client Sample ID: CV1337A-CS-SP

## Lab Sample ID: 680-89220-34

Date Collected: 04/09/13 14:16

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 60.1

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: CV1337A-CS-SP**

**Lab Sample ID: 680-89220-34**

Date Collected: 04/09/13 14:16

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 60.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	170		67	8.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Anthracene	66		14	7.1	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Benzo[a]anthracene	620		13	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Benzo[a]pyrene	610		18	8.8	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Benzo[b]fluoranthene	1000		21	10	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Benzo[g,h,i]perylene	440		34	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Benzo[k]fluoranthene	370		13	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Chrysene	630		15	7.6	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Dibenz(a,h)anthracene	180		34	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Fluoranthene	850		34	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Fluorene	21	J	34	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Indeno[1,2,3-cd]pyrene	510		34	12	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
1-Methylnaphthalene	32	J	67	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
2-Methylnaphthalene	87		67	12	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Naphthalene	58	J	67	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Phenanthrene	200		13	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
Pyrene	890		34	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 21:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 21:47	1

**Client Sample ID: CV1337B-CS-SP**

**Lab Sample ID: 680-89220-35**

Date Collected: 04/09/13 14:25

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 58.8

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Acenaphthylene	210		66	8.2	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Anthracene	89		14	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Benzo[a]anthracene	670		13	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Benzo[a]pyrene	600		17	8.6	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Benzo[b]fluoranthene	1100		20	10	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Benzo[g,h,i]perylene	590		33	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Benzo[k]fluoranthene	430		13	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Chrysene	690		15	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Dibenz(a,h)anthracene	200		33	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Fluoranthene	1300		33	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Fluorene	59		33	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Indeno[1,2,3-cd]pyrene	470		33	12	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
1-Methylnaphthalene	34	J	66	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
2-Methylnaphthalene	93		66	12	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Naphthalene	150		66	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Phenanthrene	480		13	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
Pyrene	1200		33	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 22:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 22:05	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: CV1338A-CS-SP**

**Lab Sample ID: 680-89220-36**

Date Collected: 04/09/13 14:43

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 65.2

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Acenaphthylene</b>	<b>22</b>	<b>J</b>	61	7.7	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Anthracene</b>	<b>27</b>		13	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Benzo[a]anthracene</b>	<b>140</b>		12	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Benzo[a]pyrene</b>	<b>140</b>		16	8.0	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Benzo[b]fluoranthene</b>	<b>250</b>		19	9.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Benzo[g,h,i]perylene</b>	<b>120</b>		31	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Benzo[k]fluoranthene</b>	<b>80</b>		12	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Chrysene</b>	<b>150</b>		14	6.9	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
Dibenz(a,h)anthracene	31	U	31	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Fluoranthene</b>	<b>210</b>		31	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Fluorene</b>	<b>27</b>	<b>J</b>	31	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>170</b>		31	11	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>1-Methylnaphthalene</b>	<b>86</b>		61	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>2-Methylnaphthalene</b>	<b>100</b>		61	11	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Naphthalene</b>	<b>70</b>		61	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Phenanthrene</b>	<b>180</b>		12	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Pyrene</b>	<b>240</b>		31	5.7	ug/Kg	☼	04/17/13 13:21	04/18/13 22:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	71		30 - 130				04/17/13 13:21	04/18/13 22:24	1

**Client Sample ID: CV1338B-CS-SP**

**Lab Sample ID: 680-89220-37**

Date Collected: 04/09/13 14:52

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Acenaphthylene</b>	<b>15</b>	<b>J</b>	58	7.2	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Anthracene</b>	<b>21</b>		12	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Benzo[a]anthracene</b>	<b>98</b>		12	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Benzo[a]pyrene</b>	<b>68</b>		15	7.5	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Benzo[b]fluoranthene</b>	<b>80</b>		18	8.8	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Benzo[g,h,i]perylene</b>	<b>66</b>		29	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Benzo[k]fluoranthene</b>	<b>66</b>		12	5.2	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Chrysene</b>	<b>69</b>		13	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
Dibenz(a,h)anthracene	29	U	29	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Fluoranthene</b>	<b>90</b>		29	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Fluorene</b>	<b>11</b>	<b>J</b>	29	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>100</b>		29	10	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>1-Methylnaphthalene</b>	<b>60</b>		58	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>2-Methylnaphthalene</b>	<b>81</b>		58	10	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Naphthalene</b>	<b>66</b>		58	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Phenanthrene</b>	<b>99</b>		12	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Pyrene</b>	<b>110</b>		29	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 22:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	68		30 - 130				04/17/13 13:21	04/18/13 22:42	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: HP0140A-CS-SP**

**Lab Sample ID: 680-89220-38**

Date Collected: 04/09/13 10:11

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Acenaphthylene</b>	<b>29</b>	<b>J</b>	59	7.4	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Anthracene</b>	<b>20</b>		12	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Benzo[a]anthracene</b>	<b>57</b>		12	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Benzo[a]pyrene</b>	<b>67</b>		15	7.7	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>		18	9.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Benzo[g,h,i]perylene</b>	<b>84</b>		30	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Benzo[k]fluoranthene</b>	<b>76</b>		12	5.3	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Chrysene</b>	<b>140</b>		13	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
Dibenz(a,h)anthracene	30	U	30	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Fluoranthene</b>	<b>100</b>		30	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Fluorene</b>	<b>42</b>		30	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		30	11	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>1-Methylnaphthalene</b>	<b>150</b>		59	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>2-Methylnaphthalene</b>	<b>130</b>		59	11	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Naphthalene</b>	<b>94</b>		59	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Phenanthrene</b>	<b>200</b>		12	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Pyrene</b>	<b>110</b>		30	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 23:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	75		30 - 130				04/17/13 13:21	04/18/13 23:00	1

**Client Sample ID: HP0140B-CS-SP**

**Lab Sample ID: 680-89220-39**

Date Collected: 04/09/13 10:22

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 61.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Acenaphthylene</b>	<b>46</b>	<b>J</b>	65	8.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Anthracene</b>	<b>26</b>		14	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Benzo[a]anthracene</b>	<b>80</b>		13	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Benzo[a]pyrene</b>	<b>110</b>		17	8.4	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Benzo[b]fluoranthene</b>	<b>190</b>		20	9.9	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Benzo[g,h,i]perylene</b>	<b>94</b>		32	7.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Benzo[k]fluoranthene</b>	<b>67</b>		13	5.8	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Chrysene</b>	<b>140</b>		15	7.3	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
Dibenz(a,h)anthracene	32	U	32	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Fluoranthene</b>	<b>97</b>		32	6.5	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Fluorene</b>	<b>14</b>	<b>J</b>	32	6.6	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>140</b>		32	11	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>1-Methylnaphthalene</b>	<b>66</b>		65	7.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>2-Methylnaphthalene</b>	<b>110</b>		65	11	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Naphthalene</b>	<b>77</b>		65	7.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Phenanthrene</b>	<b>88</b>		13	6.3	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Pyrene</b>	<b>140</b>		32	6.0	ug/Kg	☼	04/17/13 13:21	04/18/13 23:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	80		30 - 130				04/17/13 13:21	04/18/13 23:19	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

**Client Sample ID: HP0142A-CS-SP**

**Lab Sample ID: 680-89220-40**

Date Collected: 04/09/13 09:37

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 66.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Acenaphthylene	43	J	61	7.6	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Anthracene	81		13	6.4	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Benzo[a]anthracene	160		12	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Benzo[a]pyrene	210		16	7.9	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Benzo[b]fluoranthene	380		19	9.3	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Benzo[g,h,i]perylene	150		30	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Benzo[k]fluoranthene	210		12	5.5	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Chrysene	210		14	6.8	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Dibenz(a,h)anthracene	110		30	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Fluoranthene	200		30	6.1	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Fluorene	15	J	30	6.2	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Indeno[1,2,3-cd]pyrene	200		30	11	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
1-Methylnaphthalene	580		61	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
2-Methylnaphthalene	930		61	11	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Naphthalene	1000		61	6.7	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Phenanthrene	420		12	5.9	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
Pyrene	250		30	5.6	ug/Kg	☼	04/17/13 13:21	04/18/13 23:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	79		30 - 130				04/17/13 13:21	04/18/13 23:37	1



# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

**Lab Sample ID: MB 660-136542/1-A**

**Matrix: Solid**

**Analysis Batch: 136605**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136542**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Fluorene	20	U	20	4.1	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Naphthalene	40	U	40	4.4	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/17/13 13:21	04/18/13 16:36	1
Pyrene	20	U	20	3.7	ug/Kg		04/17/13 13:21	04/18/13 16:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		30 - 130	04/17/13 13:21	04/18/13 16:36	1

**Lab Sample ID: LCS 660-136542/2-A**

**Matrix: Solid**

**Analysis Batch: 136605**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136542**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	663	495		ug/Kg		75	39 - 130
Acenaphthylene	663	505		ug/Kg		76	38 - 130
Anthracene	663	596		ug/Kg		90	37 - 130
Benzo[a]anthracene	663	560		ug/Kg		84	40 - 130
Benzo[a]pyrene	663	506		ug/Kg		76	49 - 130
Benzo[b]fluoranthene	663	617		ug/Kg		93	37 - 130
Benzo[g,h,i]perylene	663	530		ug/Kg		80	32 - 130
Benzo[k]fluoranthene	663	540		ug/Kg		81	32 - 130
Chrysene	663	588		ug/Kg		89	41 - 130
Dibenz(a,h)anthracene	663	548		ug/Kg		83	27 - 130
Fluoranthene	663	559		ug/Kg		84	40 - 130
Fluorene	663	598		ug/Kg		90	40 - 130
Indeno[1,2,3-cd]pyrene	663	541		ug/Kg		82	30 - 130
1-Methylnaphthalene	663	602		ug/Kg		91	31 - 130
2-Methylnaphthalene	663	588		ug/Kg		89	33 - 130
Naphthalene	663	565		ug/Kg		85	36 - 130
Phenanthrene	663	552		ug/Kg		83	42 - 130
Pyrene	663	536		ug/Kg		81	44 - 130

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# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-136542/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136605**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 136542**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	80		30 - 130

**Lab Sample ID: 680-89220-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 136605**

**Client Sample ID: FM0147A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 136542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Acenaphthene	150	U	967	732		ug/Kg	☼	76	39 - 130
Acenaphthylene	67		967	859		ug/Kg	☼	82	38 - 130
Anthracene	50		967	850		ug/Kg	☼	83	37 - 130
Benzo[a]anthracene	260		967	944		ug/Kg	☼	71	40 - 130
Benzo[a]pyrene	250		967	843		ug/Kg	☼	61	49 - 130
Benzo[b]fluoranthene	420		967	1050		ug/Kg	☼	65	37 - 130
Benzo[g,h,i]perylene	190		967	863		ug/Kg	☼	70	32 - 130
Benzo[k]fluoranthene	150		967	795		ug/Kg	☼	67	32 - 130
Chrysene	260		967	859		ug/Kg	☼	62	41 - 130
Dibenz(a,h)anthracene	98		967	802		ug/Kg	☼	73	27 - 130
Fluoranthene	330		967	1000		ug/Kg	☼	70	40 - 130
Fluorene	8.5	J	967	742		ug/Kg	☼	76	40 - 130
Indeno[1,2,3-cd]pyrene	210		967	829		ug/Kg	☼	64	30 - 130
1-Methylnaphthalene	51	J	967	752		ug/Kg	☼	73	31 - 130
2-Methylnaphthalene	72		967	848		ug/Kg	☼	80	33 - 130
Naphthalene	110		967	825		ug/Kg	☼	74	36 - 130
Phenanthrene	110		967	878		ug/Kg	☼	80	42 - 130
Pyrene	320		967	944		ug/Kg	☼	65	44 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	73		30 - 130

**Lab Sample ID: 680-89220-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 136605**

**Client Sample ID: FM0147A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 136542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
Acenaphthene	150	U	986	912		ug/Kg	☼	93	39 - 130	22	40
Acenaphthylene	67		986	893		ug/Kg	☼	84	38 - 130	4	40
Anthracene	50		986	961		ug/Kg	☼	92	37 - 130	12	40
Benzo[a]anthracene	260		986	1100		ug/Kg	☼	85	40 - 130	15	40
Benzo[a]pyrene	250		986	936		ug/Kg	☼	70	49 - 130	10	40
Benzo[b]fluoranthene	420		986	1210		ug/Kg	☼	79	37 - 130	13	40
Benzo[g,h,i]perylene	190		986	982		ug/Kg	☼	80	32 - 130	13	40
Benzo[k]fluoranthene	150		986	984		ug/Kg	☼	85	32 - 130	21	40
Chrysene	260		986	1000		ug/Kg	☼	75	41 - 130	15	40
Dibenz(a,h)anthracene	98		986	947		ug/Kg	☼	86	27 - 130	17	40
Fluoranthene	330		986	1120		ug/Kg	☼	80	40 - 130	11	40
Fluorene	8.5	J	986	992		ug/Kg	☼	100	40 - 130	29	40
Indeno[1,2,3-cd]pyrene	210		986	866		ug/Kg	☼	67	30 - 130	4	40
1-Methylnaphthalene	51	J	986	893		ug/Kg	☼	85	31 - 130	17	40

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# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## GC/MS Semi VOA

### Prep Batch: 136542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89220-21	FM0147A-CS	Total/NA	Solid	3546	
680-89220-21 MS	FM0147A-CS	Total/NA	Solid	3546	
680-89220-21 MSD	FM0147A-CS	Total/NA	Solid	3546	
680-89220-22	FM0147B-CS	Total/NA	Solid	3546	
680-89220-23	FM0249A-CS	Total/NA	Solid	3546	
680-89220-24	FM0252A-CS	Total/NA	Solid	3546	
680-89220-25	FM0252B-CS	Total/NA	Solid	3546	
680-89220-26	FM0252B-CSD	Total/NA	Solid	3546	
680-89220-27	FM0351A-CS	Total/NA	Solid	3546	
680-89220-28	FM0351B-CS	Total/NA	Solid	3546	
680-89220-28 - DL	FM0351B-CS	Total/NA	Solid	3546	
680-89220-29	FM0351C-CS	Total/NA	Solid	3546	
680-89220-30	CV0675A-CS-SP	Total/NA	Solid	3546	
680-89220-31	CV0675B-CS-SP	Total/NA	Solid	3546	
680-89220-32	CV0928A-CS-SP	Total/NA	Solid	3546	
680-89220-33	CV0928B-CS-SP	Total/NA	Solid	3546	
680-89220-34	CV1337A-CS-SP	Total/NA	Solid	3546	
680-89220-35	CV1337B-CS-SP	Total/NA	Solid	3546	
680-89220-36	CV1338A-CS-SP	Total/NA	Solid	3546	
680-89220-37	CV1338B-CS-SP	Total/NA	Solid	3546	
680-89220-38	HP0140A-CS-SP	Total/NA	Solid	3546	
680-89220-39	HP0140B-CS-SP	Total/NA	Solid	3546	
680-89220-40	HP0142A-CS-SP	Total/NA	Solid	3546	
LCS 660-136542/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136542/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 136605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89220-21	FM0147A-CS	Total/NA	Solid	8270C LL	136542
680-89220-21 MS	FM0147A-CS	Total/NA	Solid	8270C LL	136542
680-89220-21 MSD	FM0147A-CS	Total/NA	Solid	8270C LL	136542
680-89220-22	FM0147B-CS	Total/NA	Solid	8270C LL	136542
680-89220-23	FM0249A-CS	Total/NA	Solid	8270C LL	136542
680-89220-24	FM0252A-CS	Total/NA	Solid	8270C LL	136542
680-89220-25	FM0252B-CS	Total/NA	Solid	8270C LL	136542
680-89220-26	FM0252B-CSD	Total/NA	Solid	8270C LL	136542
680-89220-27	FM0351A-CS	Total/NA	Solid	8270C LL	136542
680-89220-28	FM0351B-CS	Total/NA	Solid	8270C LL	136542
680-89220-29	FM0351C-CS	Total/NA	Solid	8270C LL	136542
680-89220-30	CV0675A-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-31	CV0675B-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-32	CV0928A-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-33	CV0928B-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-34	CV1337A-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-35	CV1337B-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-36	CV1338A-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-37	CV1338B-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-38	HP0140A-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-39	HP0140B-CS-SP	Total/NA	Solid	8270C LL	136542
680-89220-40	HP0142A-CS-SP	Total/NA	Solid	8270C LL	136542
LCS 660-136542/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136542

TestAmerica Savannah

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## GC/MS Semi VOA (Continued)

### Analysis Batch: 136605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-136542/1-A	Method Blank	Total/NA	Solid	8270C LL	136542

### Analysis Batch: 136655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89220-28 - DL	FM0351B-CS	Total/NA	Solid	8270C LL	136542

## General Chemistry

### Analysis Batch: 136459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89220-21	FM0147A-CS	Total/NA	Solid	Moisture	
680-89220-22	FM0147B-CS	Total/NA	Solid	Moisture	
680-89220-23	FM0249A-CS	Total/NA	Solid	Moisture	
680-89220-24	FM0252A-CS	Total/NA	Solid	Moisture	
680-89220-25	FM0252B-CS	Total/NA	Solid	Moisture	
680-89220-26	FM0252B-CSD	Total/NA	Solid	Moisture	
680-89220-27	FM0351A-CS	Total/NA	Solid	Moisture	
680-89220-28	FM0351B-CS	Total/NA	Solid	Moisture	
680-89220-29	FM0351C-CS	Total/NA	Solid	Moisture	
680-89220-30	CV0675A-CS-SP	Total/NA	Solid	Moisture	
680-89220-31	CV0675B-CS-SP	Total/NA	Solid	Moisture	
680-89220-32	CV0928A-CS-SP	Total/NA	Solid	Moisture	
680-89220-33	CV0928B-CS-SP	Total/NA	Solid	Moisture	
680-89220-34	CV1337A-CS-SP	Total/NA	Solid	Moisture	
680-89220-35	CV1337B-CS-SP	Total/NA	Solid	Moisture	
680-89220-36	CV1338A-CS-SP	Total/NA	Solid	Moisture	
680-89220-37	CV1338B-CS-SP	Total/NA	Solid	Moisture	
680-89220-38	HP0140A-CS-SP	Total/NA	Solid	Moisture	
680-89220-39	HP0140B-CS-SP	Total/NA	Solid	Moisture	
680-89220-40	HP0142A-CS-SP	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Client Sample ID: FM0147A-CS

Lab Sample ID: 680-89220-21

Date Collected: 04/09/13 09:30

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 17:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: FM0147B-CS

Lab Sample ID: 680-89220-22

Date Collected: 04/09/13 09:40

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 18:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: FM0249A-CS

Lab Sample ID: 680-89220-23

Date Collected: 04/09/13 09:10

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 18:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: FM0252A-CS

Lab Sample ID: 680-89220-24

Date Collected: 04/09/13 08:40

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 18:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: FM0252B-CS

Lab Sample ID: 680-89220-25

Date Collected: 04/09/13 08:50

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 19:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Client Sample ID: FM0252B-CSD

Lab Sample ID: 680-89220-26

Date Collected: 04/09/13 08:50

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 66.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 19:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: FM0351A-CS

Lab Sample ID: 680-89220-27

Date Collected: 04/09/13 12:35

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 65.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 19:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: FM0351B-CS

Lab Sample ID: 680-89220-28

Date Collected: 04/09/13 12:45

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 19:57	SCC	TAL TAM
Total/NA	Prep	3546	DL		136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	136655	04/19/13 21:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: FM0351C-CS

Lab Sample ID: 680-89220-29

Date Collected: 04/09/13 12:55

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 20:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: CV0675A-CS-SP

Lab Sample ID: 680-89220-30

Date Collected: 04/09/13 12:42

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 64.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 20:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

TestAmerica Savannah

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Client Sample ID: CV0675B-CS-SP

Lab Sample ID: 680-89220-31

Date Collected: 04/09/13 12:52

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 69.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 20:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: CV0928A-CS-SP

Lab Sample ID: 680-89220-32

Date Collected: 04/09/13 13:15

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 63.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 21:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: CV0928B-CS-SP

Lab Sample ID: 680-89220-33

Date Collected: 04/09/13 13:25

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 58.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 21:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: CV1337A-CS-SP

Lab Sample ID: 680-89220-34

Date Collected: 04/09/13 14:16

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 60.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 21:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: CV1337B-CS-SP

Lab Sample ID: 680-89220-35

Date Collected: 04/09/13 14:25

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 58.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 22:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM



# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

## Client Sample ID: CV1338A-CS-SP

Lab Sample ID: 680-89220-36

Date Collected: 04/09/13 14:43

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 65.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 22:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: CV1338B-CS-SP

Lab Sample ID: 680-89220-37

Date Collected: 04/09/13 14:52

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 22:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: HP0140A-CS-SP

Lab Sample ID: 680-89220-38

Date Collected: 04/09/13 10:11

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 67.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 23:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: HP0140B-CS-SP

Lab Sample ID: 680-89220-39

Date Collected: 04/09/13 10:22

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 61.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 23:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

## Client Sample ID: HP0142A-CS-SP

Lab Sample ID: 680-89220-40

Date Collected: 04/09/13 09:37

Matrix: Solid

Date Received: 04/11/13 10:45

Percent Solids: 66.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136542	04/17/13 13:21	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 23:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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 <i>35th Ave Removal</i>	PROJECT NO. <i>200548-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i>	OF <i>4</i>
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**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	PCAS Metals	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
							EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
COMPANY CONTRACTING THIS WORK (if applicable)							NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
SAMPLE							NUMBER OF CONTAINERS SUBMITTED	REMARKS
DATE	TIME	SAMPLE IDENTIFICATION						

**PRESERVATIVE**

Page 26 of 32

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-8-13	1426	FM 117B-CS-SP	C	X			X		
	1416	FM 117C-CS-SP	C	X			X		
	1434	FM 117D-GS-SP	G	X			X		
4-9-13	1920	CV 1160A-CS	C	X			X	X	
	1440	CV 1099A-CS	C	X			X	X	
	1335	CV 1160A-CS	C	X			X		
	1335	CV 1160A-CS D	C	X			X		
	1020	FM 147A-CS	C	X			X		
	0930	FM 147A-CS	C	X			X		
	0940	FM 147B-CS	C	X			X		
	0910	FM 249A-CS	C	X			X		
	0840	FM 252H-CS	C	X			X		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-10-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/11/13</i>	TIME <i>1045</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89220</i>	LABORATORY REMARKS <i>2-2 c</i>
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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 <i>354th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i>	OF <i>4</i>
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**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

*LL PAH*

**PRESERVATIVE**

STANDARD REPORT DELIVERY

DATE DUE \_\_\_\_\_

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE \_\_\_\_\_

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS				
								1	2	3	4	5	6	7	8	9	10		11	12		
<i>4-9-13</i>	<i>0850</i>	<i>FM0252B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0850</i>	<i>FM0252B-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1235</i>	<i>FM0351A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1245</i>	<i>FM0351B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1255</i>	<i>FM0351C-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1242</i>	<i>CV0675A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1252</i>	<i>CV0675B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1315</i>	<i>CV0928A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1325</i>	<i>CV0928B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1416</i>	<i>CV1337A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1425</i>	<i>CV1337B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1443</i>	<i>CV1338A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-10-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) *[Signature]*

DATE *04/11/13* TIME *1045*

CUSTODY INTACT YES  NO

CUSTODY SEAL NO.

SAVANNAH LOG NO. *680-89220*

LABORATORY REMARKS *2.2'*

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4/23/13





## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-2

SDG Number: 68089220-2

**Login Number: 89220**

**List Number: 1**

**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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?	N/A	
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 $<6\text{mm}$ (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: 680-89220-2

SDG Number: 68089220-2

**Login Number: 89220**

**List Number: 1**

**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**

**List Creation: 04/15/13 04:19 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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Samples delayed by FedEx and Arrived out of Temperature
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.	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	

## Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
 SDG: 68089220-2

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

### Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-2  
SDG: 68089220-2

## Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14

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