

**REDACTED**

### 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 and Water  
 Reviewer: Karen Marie Trujillo  
 Concurrence<sup>2</sup>: Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-89275-1  
 Associated Samples: Refer to **Attachment A** (Sample Summary)  
 Samples Collected: 04/10/2013 & 04/11/2013  
 Date: 05/02/2013  
 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.	✓				
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?		✓			
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?	✓				
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).	

<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
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 this Test America Job ID.	
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?	✓			CV1090A-CSD (680-89275-11) is a field duplicate of CV1090A-CS (680-89275-10).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to <b>Attachment B</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 narrative.</li> <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>	✓			<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: 04/17/13 @ 10:18</li> <li>CCV: 04/18/13 @ 12:01</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</li> </ul> </li> </ul>	✓				

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>J-flag positive results and R-flag non-detects</p> <ul style="list-style-type: none"> <li>ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and <math>RF \geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>If <math>\%D &gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>If <math>RF &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 $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$ .	✓				
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?	✓			<ul style="list-style-type: none"> <li>Soil, Prep Batch 136462: 680-89275-2 (CV0877A-CS), MS/MSD</li> <li>Water, Prep Batch 136534: 640-42984-1 (Batch sample), MS only due to limited sample volume. Laboratory duplicate analysis conducted on 680-89275-1 (04113-RB-Bowls + Spoons) in lieu of MSD.</li> </ul>	
<p>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></p> <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> <li>MS and MSD <math>\%R &lt; 10</math>: J and R Flag positive and ND results, respectively</li> <li>MS and MSD <math>\%R &gt; 10</math> and <math>&lt; \text{LCL}</math>: J-Flag positive and UJ-flag non-detect results</li> <li>MS and MSD <math>R\% &gt; \text{UCL}</math> (or 140): J-Flag positive results</li> </ul>		✓		<p>CV0877A-CS (680-89275-2):</p> <ul style="list-style-type: none"> <li>Acenaphthene @ 41 and 38 <math>\%R</math> (39-130). Qualification of data not required<sup>3</sup>.</li> <li>Acenaphthylene @ 32 and 37 <math>\%R</math> (38-130), J Flag.</li> <li>Anthracene @ 34 and 41 <math>\%R</math> (37-100). Qualification of data not required<sup>3</sup>.</li> <li>Benzo[a]anthracene @ 32 and 49 <math>\%R</math> (40-130). Qualification of data not required<sup>3</sup>.</li> <li>Benzo[a]pyrene @ 23 and 38 <math>\%R</math> (49-130), J Flag.</li> <li>Benzo[b]fluoranthene @ 19 and 42 <math>\%R</math> (37-130). Qualification of data not required<sup>3</sup>.</li> <li>Benzo[g,h,i]perylene @ 18 and 31 <math>\%R</math> (32-130), J Flag.</li> <li>Benzo[k]fluoranthene @ 30 and 49 <math>\%R</math> (32-130).</li> </ul>	J

<sup>3</sup> The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				Qualification of data not required <sup>3</sup> . • Chrysene @ 26 and 48 %R (41-130). Qualification of data not required <sup>3</sup> . • Dibenz(a,h)anthracene @ 25 and 26 %R (27-130), J Flag. • Fluoranthene @ 22 and 80 %R (40-130). Qualification of data not required <sup>3</sup> . • Indeno[1,2,3-cd]pyrene @ 21 and 31 %R (30-130). Qualification of data not required <sup>3</sup> . • Phenanthrene @ 25 and 67 %R (42-130). Qualification of data not required <sup>3</sup> . • Pyrene @ 27 and 77 %R (44-130). Qualification of data not required <sup>3</sup> .	
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> <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>		✓		CV0877A-CS (680-89275-2): • Fluoranthene @ 56 %RPD (≤40). J Flag • Phenanthrene @ 67 %RPD (≤40). J Flag • Pyrene @ 77 %RPD (≤40). J Flag	J
27. Were surrogate recoveries within lab/project specifications? <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>	✓				
28. Were internal standard (IS) results within lab/project specifications? <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> </ul>	✓				

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <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 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.</li> </ul>					
29. Was a laboratory duplicate analysis conducted?	✓				
30. Is the laboratory duplicate parent sample a project-specific sample?	✓			Water, Prep batch 136534: 680-89275-1 (04113-RB-Bowls + Spoons)	
31. Were laboratory criteria met for precision during the laboratory duplicate analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result.</li> </ul>			✓	An evaluation of precision is not possible, as target analytes were not detected in either sample.	
32. Were lab comments included in report?	✓			Refer to <b>Attachment C</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: 680-89275-1  
SDG: 68089275-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89275-1	041113-RB-Bowls + Spoons	Water	04/11/13 08:10	04/12/13 09:50
680-89275-2	CV0877A-CS	Solid	04/10/13 14:15	04/12/13 09:50
680-89275-5	CV1086A-CS	Solid	04/10/13 09:50	04/12/13 09:50
680-89275-6	CV1086B-GS	Solid	04/10/13 10:00	04/12/13 09:50
680-89275-7	CV1086C-GS	Solid	04/10/13 10:10	04/12/13 09:50
680-89275-8	CV01088A-CS	Solid	04/10/13 09:20	04/12/13 09:50
680-89275-9	CV01088B-GS	Solid	04/10/13 09:30	04/12/13 09:50
680-89275-10	CV1090A-CS	Solid	04/10/13 08:40	04/12/13 09:50
680-89275-11	CV1090A-CSD	Solid	04/10/13 08:40	04/12/13 09:50
680-89275-12	CV1091A-CS	Solid	04/10/13 09:00	04/12/13 09:50
680-89275-13	CV1357A-CS	Solid	04/10/13 13:25	04/12/13 09:50
680-89275-14	CV1357B-CS	Solid	04/10/13 13:35	04/12/13 09:50
680-89275-15	CV0050A-CS-SP	Solid	04/10/13 10:45	04/12/13 09:50
680-89275-16	CV0050B-CS-SP	Solid	04/10/13 10:56	04/12/13 09:50
680-89275-17	CV0133A-CS-SP	Solid	04/10/13 09:48	04/12/13 09:50
680-89275-18	CV0133B-CS-SP	Solid	04/10/13 10:05	04/12/13 09:50
680-89275-19	CV0318A-CS-SP	Solid	04/10/13 14:35	04/12/13 09:50
680-89275-20	CV0318B-CS-SP	Solid	04/10/13 14:45	04/12/13 09:50

**ATTACHMENT B**  
**FIELD DUPLICATE EVALUATION**



Evaluation of Field Duplicate Results

Analyte	CV1090A-CS 680-89275-10	RL	CV1090A-CSD 680-89275-11	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	3700	530	33	J 130	µg/kg	1650	NA	3667	660	J/UJ-flag, absolute difference > 2x Avg RL
Acenaphthylene	850	210	46	J 51	µg/kg	652.5	NA	804	261	J/UJ-flag, absolute difference > 2x Avg RL
Anthracene	5600	44	50	11	µg/kg	137.5	NA	5550	55	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	14000	42	350	10	µg/kg	130	190	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	10000	55	240	13	µg/kg	170	191	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	17000	320	570	15	µg/kg	837.5	NA	16430	335	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(g,h,i)perylene	6100	110	260	25	µg/kg	337.5	NA	5840	135	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(k)fluoranthene	8400	42	170	10	µg/kg	130	192	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	14000	47	810	11	µg/kg	145	178	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	2400	110	140	25	µg/kg	337.5	NA	2260	135	J/UJ-flag, absolute difference > 2x Avg RL
Fluoranthene	31000	530	460	25	µg/kg	1387.5	NA	30540	555	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	4100	110	77	25	µg/kg	337.5	NA	4023	135	J/UJ-flag, absolute difference > 2x Avg RL
Indeno(1,2,3-cd)pyrene	5200	110	200	25	µg/kg	337.5	NA	5000	135	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	1100	210	620	51	µg/kg	652.5	NA	480	261	J/UJ-flag, absolute difference > 2x Avg RL
2-Methylnaphthalene	1600	210	720	51	µg/kg	652.5	76	NA	NA	J/UJ-flag, RPD > 50%
Naphthalene	3200	210	380	51	µg/kg	652.5	NA	2820	261	J/UJ-flag, absolute difference > 2x Avg RL
Phenanthrene	33000	210	890	10	µg/kg	550	189	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	24000	530	430	51	µg/kg	1452.5	NA	23570	581	J/UJ-flag, absolute difference > 2x Avg RL

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 C**  
**CASE NARRATIVE**

# Case Narrative

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

TestAmerica Job ID: 680-89275-1  
SDG: 68089275-1

**Job ID: 680-89275-1**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89275-1**

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 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV1086B-GS (680-89275-6), CV1086C-GS (680-89275-7), CV01088A-CS (680-89275-8), CV01088B-GS (680-89275-9), CV1090A-CS (680-89275-10), CV1090A-CSD (680-89275-11), CV1091A-CS (680-89275-12), CV1357A-CS (680-89275-13), CV1357B-CS (680-89275-14), CV0050A-CS-SP (680-89275-15), CV0050B-CS-SP (680-89275-16), CV0133A-CS-SP (680-89275-17), CV0133B-CS-SP (680-89275-18), CV0318A-CS-SP (680-89275-19) and CV0318B-CS-SP (680-89275-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/16/2013 and analyzed on 04/17/2013.

Samples CV1086A-CS (680-89275-5)[4X], CV1086B-GS (680-89275-6)[4X], CV1086C-GS (680-89275-7)[4X], CV1090A-CS (680-89275-10)[20X], CV1090A-CS (680-89275-10)[4X] and CV1357B-CS (680-89275-14)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 660-136590. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

### SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013.

Sample (680-89275-1 DU) had less than 900mLs available for extraction is 8270LL. Batch: 136534. Detection limits are elevated accordingly.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits

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

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: 04113-RB-Bowls + Spoons**

**Lab Sample ID: 680-89275-1**

Date Collected: 04/11/13 08:10

Matrix: Water

Date Received: 04/12/13 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		04/17/13 12:20	04/18/13 15:22	1
Anthracene	0.20	U	0.20	0.077	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[a]anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[a]pyrene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[b]fluoranthene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[g,h,i]perylene	0.51	U	0.51	0.10	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[k]fluoranthene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 15:22	1
Chrysene	0.20	U	0.20	0.070	ug/L		04/17/13 12:20	04/18/13 15:22	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
Fluoranthene	0.51	U	0.51	0.055	ug/L		04/17/13 12:20	04/18/13 15:22	1
Fluorene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
1-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
2-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
Naphthalene	2.0	U	2.0	0.25	ug/L		04/17/13 12:20	04/18/13 15:22	1
Phenanthrene	0.51	U	0.51	0.20	ug/L		04/17/13 12:20	04/18/13 15:22	1
Pyrene	0.51	U	0.51	0.090	ug/L		04/17/13 12:20	04/18/13 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130	04/17/13 12:20	04/18/13 15:22	1

**Client Sample ID: CV0877A-CS**

**Lab Sample ID: 680-89275-2**

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	UF	130	25	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Acenaphthylene	100	FJ	50	6.3	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Anthracene	79	F	11	5.3	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Benzo[a]anthracene	340	F	10	4.9	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Benzo[a]pyrene	300	FJ	13	6.5	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Benzo[b]fluoranthene	580	F	15	7.7	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Benzo[g,h,i]perylene	290	FJ	25	5.5	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Benzo[k]fluoranthene	230	F	10	4.5	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Chrysene	470	F	11	5.7	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Dibenz(a,h)anthracene	140	FJ	25	5.1	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Fluoranthene	450	FJ	25	5.0	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Fluorene	26		25	5.1	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Indeno[1,2,3-cd]pyrene	260	F	25	8.9	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
1-Methylnaphthalene	360		50	5.5	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
2-Methylnaphthalene	340		50	8.9	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Naphthalene	240		50	5.5	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Phenanthrene	460	FJ	10	4.9	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1
Pyrene	440	FJ	25	4.6	ug/Kg	*	04/16/13 07:00	04/17/13 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	45		30 - 130	04/16/13 07:00	04/17/13 11:31	1

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 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV1086A-CS**

**Lab Sample ID: 680-89275-5**

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

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	560	U	560	110	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Acenaphthylene</b>	<b>70</b>	<b>J</b>	220	28	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Anthracene</b>	<b>130</b>		47	23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[a]anthracene</b>	<b>420</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[a]pyrene</b>	<b>280</b>		58	29	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[b]fluoranthene</b>	<b>550</b>		68	34	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[g,h,i]perylene</b>	<b>310</b>		110	24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[k]fluoranthene</b>	<b>170</b>		44	20	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Chrysene</b>	<b>520</b>		50	25	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Fluoranthene</b>	<b>510</b>		110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Fluorene</b>	<b>46</b>	<b>J</b>	110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>400</b>		110	39	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>1-Methylnaphthalene</b>	<b>380</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>2-Methylnaphthalene</b>	<b>610</b>		220	39	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Naphthalene</b>	<b>340</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Phenanthrene</b>	<b>640</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Pyrene</b>	<b>490</b>		110	21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<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				04/16/13 07:00	04/17/13 12:26	4

**Client Sample ID: CV1086B-GS**

**Lab Sample ID: 680-89275-6**

Date Collected: 04/10/13 10:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.3	U	5.3	1.1	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Acenaphthylene</b>	<b>0.36</b>	<b>J</b>	2.1	0.27	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Anthracene</b>	<b>0.49</b>		0.45	0.22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[a]anthracene</b>	<b>1.9</b>		0.43	0.21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[a]pyrene</b>	<b>1.2</b>		0.55	0.28	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[b]fluoranthene</b>	<b>1.8</b>		0.65	0.32	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[g,h,i]perylene</b>	<b>1.4</b>		1.1	0.23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[k]fluoranthene</b>	<b>1.0</b>		0.43	0.19	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Chrysene</b>	<b>1.8</b>		0.48	0.24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
Dibenz(a,h)anthracene	1.1	U	1.1	0.22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Fluoranthene</b>	<b>1.9</b>		1.1	0.21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Fluorene</b>	<b>0.24</b>	<b>J</b>	1.1	0.22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>3.2</b>		1.1	0.38	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>1-Methylnaphthalene</b>	<b>2.0</b>	<b>J</b>	2.1	0.23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>2-Methylnaphthalene</b>	<b>3.6</b>		2.1	0.38	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Naphthalene</b>	<b>2.3</b>		2.1	0.23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Phenanthrene</b>	<b>2.5</b>		0.43	0.21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Pyrene</b>	<b>2.4</b>		1.1	0.20	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<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	61		30 - 130				04/16/13 07:00	04/17/13 12:44	4

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 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV1086C-GS**

**Lab Sample ID: 680-89275-7**

Date Collected: 04/10/13 10:10

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Acenaphthylene</b>	<b>51</b>	<b>J</b>	220	28	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Anthracene</b>	<b>99</b>		46	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[a]anthracene</b>	<b>360</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[a]pyrene</b>	<b>230</b>		57	29	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[b]fluoranthene</b>	<b>420</b>		67	34	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[g,h,i]perylene</b>	<b>260</b>		110	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[k]fluoranthene</b>	<b>190</b>		44	20	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Chrysene</b>	<b>510</b>		50	25	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Fluoranthene</b>	<b>400</b>		110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Fluorene</b>	<b>120</b>		110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>450</b>		110	39	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>1-Methylnaphthalene</b>	<b>760</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>2-Methylnaphthalene</b>	<b>770</b>		220	39	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Naphthalene</b>	<b>510</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Phenanthrene</b>	<b>720</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Pyrene</b>	<b>440</b>		110	20	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<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	65		30 - 130				04/16/13 07:00	04/17/13 13:03	4

**Client Sample ID: CV01088A-CS**

**Lab Sample ID: 680-89275-8**

Date Collected: 04/10/13 09:20

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Acenaphthylene</b>	<b>33</b>	<b>J</b>	50	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Anthracene</b>	<b>42</b>		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[a]anthracene</b>	<b>150</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[a]pyrene</b>	<b>150</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[b]fluoranthene</b>	<b>310</b>		15	7.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[g,h,i]perylene</b>	<b>170</b>		25	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[k]fluoranthene</b>	<b>98</b>		9.9	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Chrysene</b>	<b>270</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
Dibenz(a,h)anthracene	78		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Fluoranthene</b>	<b>180</b>		25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Fluorene</b>	<b>23</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>170</b>		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>1-Methylnaphthalene</b>	<b>200</b>		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>2-Methylnaphthalene</b>	<b>240</b>		50	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Naphthalene</b>	<b>140</b>		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Phenanthrene</b>	<b>280</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Pyrene</b>	<b>180</b>		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	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				04/16/13 07:00	04/17/13 13:21	1

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 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV01088B-GS**

**Lab Sample ID: 680-89275-9**

Date Collected: 04/10/13 09:30

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 60.8

**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	☼	04/16/13 07:00	04/17/13 13:39	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Anthracene</b>	<b>12</b>	<b>J</b>	14	6.9	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[a]anthracene</b>	<b>39</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[a]pyrene</b>	<b>33</b>		17	8.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[b]fluoranthene</b>	<b>76</b>		20	10	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[g,h,i]perylene</b>	<b>36</b>		33	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[k]fluoranthene</b>	<b>24</b>		13	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Chrysene</b>	<b>52</b>		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
Dibenz(a,h)anthracene	33	U	33	6.7	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Fluoranthene</b>	<b>41</b>		33	6.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
Fluorene	33	U	33	6.7	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		33	12	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>1-Methylnaphthalene</b>	<b>23</b>	<b>J</b>	66	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>2-Methylnaphthalene</b>	<b>73</b>		66	12	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Naphthalene</b>	<b>38</b>	<b>J</b>	66	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Phenanthrene</b>	<b>40</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Pyrene</b>	<b>36</b>		33	6.1	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	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	54		30 - 130				04/16/13 07:00	04/17/13 13:39	1

**Client Sample ID: CV1090A-CS**

**Lab Sample ID: 680-89275-10**

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>3700</b>	<b>J</b>	530	110	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Acenaphthylene</b>	<b>850</b>	<b>J</b>	210	26	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Anthracene</b>	<b>5600</b>	<b>J</b>	44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[a]anthracene</b>	<b>14000</b>	<b>J</b>	42	21	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[a]pyrene</b>	<b>10000</b>	<b>J</b>	55	27	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[g,h,i]perylene</b>	<b>6100</b>	<b>J</b>	110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[k]fluoranthene</b>	<b>8400</b>	<b>J</b>	42	19	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Chrysene</b>	<b>14000</b>	<b>J</b>	47	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Dibenz(a,h)anthracene</b>	<b>2400</b>	<b>J</b>	110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Fluorene</b>	<b>4100</b>	<b>J</b>	110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>5200</b>	<b>J</b>	110	37	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>1-Methylnaphthalene</b>	<b>1100</b>	<b>J</b>	210	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>2-Methylnaphthalene</b>	<b>1600</b>	<b>J</b>	210	37	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Naphthalene</b>	<b>3200</b>	<b>J</b>	210	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<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	67		30 - 130				04/16/13 07:00	04/17/13 13:58	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[b]fluoranthene</b>	<b>17000</b>	<b>J</b>	320	160	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20
<b>Fluoranthene</b>	<b>31000</b>	<b>J</b>	530	110	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20

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 (OTTE, October 2012)



# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: CV1090A-CS

Lab Sample ID: 680-89275-10

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	33000	J	210	100	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20
Pyrene	24000	J	530	97	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20

## Client Sample ID: CV1090A-CSD

Lab Sample ID: 680-89275-11

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	J	130	25	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Acenaphthylene	46	J	51	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Anthracene	50	J	11	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[a]anthracene	350	J	10	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[a]pyrene	240	J	13	6.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[b]fluoranthene	570	J	15	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[g,h,i]perylene	260	J	25	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[k]fluoranthene	170	J	10	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Chrysene	810	J	11	5.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Dibenz(a,h)anthracene	140	J	25	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Fluoranthene	460	J	25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Fluorene	77	J	25	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Indeno[1,2,3-cd]pyrene	200	J	25	9.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
1-Methylnaphthalene	620	J	51	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
2-Methylnaphthalene	720	J	51	9.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Naphthalene	380	J	51	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Phenanthrene	890	J	10	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Pyrene	430	J	25	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	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	67		30 - 130				04/16/13 07:00	04/17/13 14:16	1

## Client Sample ID: CV1091A-CS

Lab Sample ID: 680-89275-12

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 56.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Acenaphthylene	70	U	70	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Anthracene	15	U	15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[a]anthracene	51		14	6.8	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[a]pyrene	9.9	J	18	9.1	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[b]fluoranthene	36		21	11	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[g,h,i]perylene	37		35	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[k]fluoranthene	12	J	14	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Chrysene	38		16	7.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Dibenz(a,h)anthracene	35	U	35	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Fluoranthene	24	J	35	7.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Fluorene	35	U	35	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Indeno[1,2,3-cd]pyrene	35	U	35	12	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1

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# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV1091A-CS**

**Lab Sample ID: 680-89275-12**

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 56.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	49	J	70	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
2-Methylnaphthalene	110		70	12	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Naphthalene	87		70	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Phenanthrene	37		14	6.8	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Pyrene	18	J	35	6.5	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	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	57		30 - 130				04/16/13 07:00	04/17/13 14:34	1

**Client Sample ID: CV1357A-CS**

**Lab Sample ID: 680-89275-13**

Date Collected: 04/10/13 13:25

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Acenaphthylene	33	J	54	6.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Anthracene	55		11	5.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[a]anthracene	240		11	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[a]pyrene	230		14	7.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[b]fluoranthene	380		16	8.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[g,h,i]perylene	160		27	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[k]fluoranthene	120		11	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Chrysene	270		12	6.1	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Dibenz(a,h)anthracene	78		27	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Fluoranthene	370		27	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Fluorene	33		27	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Indeno[1,2,3-cd]pyrene	180		27	9.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
1-Methylnaphthalene	130		54	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
2-Methylnaphthalene	210		54	9.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Naphthalene	130		54	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Phenanthrene	310		11	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Pyrene	280		27	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	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	39		30 - 130				04/16/13 07:00	04/17/13 14:53	1

**Client Sample ID: CV1357B-CS**

**Lab Sample ID: 680-89275-14**

Date Collected: 04/10/13 13:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Anthracene	31	J	42	21	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[a]anthracene	250		40	20	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[a]pyrene	240		52	26	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[b]fluoranthene	240		61	31	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[g,h,i]perylene	210		100	22	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4

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# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: CV1357B-CS

## Lab Sample ID: 680-89275-14

Date Collected: 04/10/13 13:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.7

### 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	220		40	18	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Chrysene	330		45	23	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Fluoranthene	340		100	20	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Fluorene	100	U	100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Indeno[1,2,3-cd]pyrene	320		100	36	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
1-Methylnaphthalene	160	J	200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
2-Methylnaphthalene	290		200	36	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Phenanthrene	310		40	20	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Pyrene	290		100	19	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
<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	57		30 - 130				04/16/13 07:00	04/17/13 15:11	4

## Client Sample ID: CV0050A-CS-SP

## Lab Sample ID: 680-89275-15

Date Collected: 04/10/13 10:45

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Acenaphthylene	19	J	50	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Anthracene	50		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[a]anthracene	170		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[a]pyrene	120		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[b]fluoranthene	280		15	7.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[g,h,i]perylene	120		25	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[k]fluoranthene	79		9.9	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Chrysene	290		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Dibenz(a,h)anthracene	78		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Fluoranthene	230		25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Fluorene	32		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Indeno[1,2,3-cd]pyrene	160		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
1-Methylnaphthalene	130		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
2-Methylnaphthalene	170		50	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Naphthalene	130		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Phenanthrene	220		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Pyrene	220		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	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	51		30 - 130				04/16/13 07:00	04/17/13 15:29	1

## Client Sample ID: CV0050B-CS-SP

## Lab Sample ID: 680-89275-16

Date Collected: 04/10/13 10:56

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1

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# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV0050B-CS-SP**

**Lab Sample ID: 680-89275-16**

Date Collected: 04/10/13 10:56

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	43	J	48	6.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Anthracene	30		10	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[a]anthracene	200		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[a]pyrene	210		13	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[b]fluoranthene	400		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[g,h,i]perylene	180		24	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[k]fluoranthene	110		9.7	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Chrysene	340		11	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Dibenz(a,h)anthracene	110		24	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Fluoranthene	280		24	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Fluorene	33		24	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Indeno[1,2,3-cd]pyrene	160		24	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
1-Methylnaphthalene	120		48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
2-Methylnaphthalene	160		48	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Naphthalene	160		48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Phenanthrene	300		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Pyrene	280		24	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	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	56		30 - 130				04/16/13 07:00	04/17/13 15:48	1

**Client Sample ID: CV0133A-CS-SP**

**Lab Sample ID: 680-89275-17**

Date Collected: 04/10/13 09:48

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Acenaphthylene	36	J	49	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Anthracene	43		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[a]anthracene	170		9.8	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[a]pyrene	150		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[b]fluoranthene	310		15	7.5	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[g,h,i]perylene	150		25	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[k]fluoranthene	97		9.8	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Chrysene	270		11	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Dibenz(a,h)anthracene	69		25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Fluoranthene	290		25	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Fluorene	15	J	25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Indeno[1,2,3-cd]pyrene	140		25	8.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
1-Methylnaphthalene	110		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
2-Methylnaphthalene	150		49	8.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Naphthalene	91		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Phenanthrene	280		9.8	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Pyrene	250		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	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	57		30 - 130				04/16/13 07:00	04/17/13 16:06	1

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 (OTTE, October 2012)

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV0133B-CS-SP**

**Lab Sample ID: 680-89275-18**

Date Collected: 04/10/13 10:05

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Anthracene</b>	<b>11</b>		10	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[a]anthracene</b>	<b>60</b>		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[a]pyrene</b>	<b>46</b>		13	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[b]fluoranthene</b>	<b>84</b>		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[g,h,i]perylene</b>	<b>56</b>		24	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[k]fluoranthene</b>	<b>44</b>		9.7	4.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Chrysene</b>	<b>54</b>		11	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
Dibenz(a,h)anthracene	24	U	24	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Fluoranthene</b>	<b>66</b>		24	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Fluorene</b>	<b>5.2</b>	J	24	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>77</b>		24	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>1-Methylnaphthalene</b>	<b>25</b>	J	48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>2-Methylnaphthalene</b>	<b>48</b>		48	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Naphthalene</b>	<b>32</b>	J	48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Phenanthrene</b>	<b>58</b>		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Pyrene</b>	<b>56</b>		24	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	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	67		30 - 130				04/16/13 07:00	04/17/13 16:24	1

**Client Sample ID: CV0318A-CS-SP**

**Lab Sample ID: 680-89275-19**

Date Collected: 04/10/13 14:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 68.5

**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	☼	04/16/13 07:00	04/17/13 16:43	1
Acenaphthylene	57	U	57	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
Anthracene	12	U	12	6.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[a]anthracene</b>	<b>57</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[a]pyrene</b>	<b>49</b>		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[b]fluoranthene</b>	<b>78</b>		17	8.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[g,h,i]perylene</b>	<b>45</b>		29	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[k]fluoranthene</b>	<b>31</b>		11	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Chrysene</b>	<b>56</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
Dibenz(a,h)anthracene	29	U	29	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Fluoranthene</b>	<b>48</b>		29	5.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Fluorene</b>	<b>13</b>	J	29	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		29	10	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>1-Methylnaphthalene</b>	<b>26</b>	J	57	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>2-Methylnaphthalene</b>	<b>54</b>	J	57	10	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Naphthalene</b>	<b>33</b>	J	57	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Phenanthrene</b>	<b>68</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Pyrene</b>	<b>43</b>		29	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	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	40		30 - 130				04/16/13 07:00	04/17/13 16:43	1

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 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV0318B-CS-SP**

**Lab Sample ID: 680-89275-20**

Date Collected: 04/10/13 14:45

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Acenaphthylene</b>	<b>9.6</b>	<b>J</b>	49	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Anthracene</b>	<b>32</b>		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[a]anthracene</b>	<b>78</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[a]pyrene</b>	<b>100</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		15	7.5	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[g,h,i]perylene</b>	<b>140</b>		25	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[k]fluoranthene</b>	<b>49</b>		9.9	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Chrysene</b>	<b>140</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Dibenz(a,h)anthracene</b>	<b>75</b>		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Fluoranthene</b>	<b>150</b>		25	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Fluorene</b>	<b>10</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>120</b>		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>1-Methylnaphthalene</b>	<b>26</b>	<b>J</b>	49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>2-Methylnaphthalene</b>	<b>70</b>		49	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Naphthalene</b>	<b>78</b>		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Phenanthrene</b>	<b>110</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Pyrene</b>	<b>110</b>		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	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	56		30 - 130				04/16/13 07:00	04/17/13 17:01	1

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

## ANALYTICAL REPORT

Job Number: 680-89275-1

SDG Number: 68089275-1

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
4/23/2013 9:19 AM

---

Designee for

Lisa Harvey

Project Manager II

[lisa.harvey@testamericainc.com](mailto: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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**TestAmerica Laboratories, Inc.**

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89275-1**

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 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV1086B-GS (680-89275-6), CV1086C-GS (680-89275-7), CV01088A-CS (680-89275-8), CV01088B-GS (680-89275-9), CV1090A-CS (680-89275-10), CV1090A-CSD (680-89275-11), CV1091A-CS (680-89275-12), CV1357A-CS (680-89275-13), CV1357B-CS (680-89275-14), CV0050A-CS-SP (680-89275-15), CV0050B-CS-SP (680-89275-16), CV0133A-CS-SP (680-89275-17), CV0133B-CS-SP (680-89275-18), CV0318A-CS-SP (680-89275-19) and CV0318B-CS-SP (680-89275-20) were analyzed for Semivolatile Organic Compounds by GCMS -Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/16/2013 and analyzed on 04/17/2013.

Samples CV1086A-CS (680-89275-5)[4X], CV1086B-GS (680-89275-6)[4X], CV1086C-GS (680-89275-7)[4X], CV1090A-CS (680-89275-10)[20X], CV1090A-CS (680-89275-10)[4X] and CV1357B-CS (680-89275-14)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 660-136590. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

### SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013.

Sample (680-89275-1 DU) had less than 900mLs available for extraction is 8270LL. Batch: 136534. Detection limits are elevated accordingly.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

Sdg Number: 68089275-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-89275-1	04113-RB-Bowls + Spoons	Water	04/11/2013 0810	04/12/2013 0950
680-89275-2	CV0877A-CS	Solid	04/10/2013 1415	04/12/2013 0950
680-89275-2MS	CV0877A-CS	Solid	04/10/2013 1415	04/12/2013 0950
680-89275-2MSD	CV0877A-CS	Solid	04/10/2013 1415	04/12/2013 0950
680-89275-5	CV1086A-CS	Solid	04/10/2013 0950	04/12/2013 0950
680-89275-6	CV1086B-GS	Solid	04/10/2013 1000	04/12/2013 0950
680-89275-7	CV1086C-GS	Solid	04/10/2013 1010	04/12/2013 0950
680-89275-8	CV01088A-CS	Solid	04/10/2013 0920	04/12/2013 0950
680-89275-9	CV01088B-GS	Solid	04/10/2013 0930	04/12/2013 0950
680-89275-10	CV1090A-CS	Solid	04/10/2013 0840	04/12/2013 0950
680-89275-11	CV1090A-CSD	Solid	04/10/2013 0840	04/12/2013 0950
680-89275-12	CV1091A-CS	Solid	04/10/2013 0900	04/12/2013 0950
680-89275-13	CV1357A-CS	Solid	04/10/2013 1325	04/12/2013 0950
680-89275-14	CV1357B-CS	Solid	04/10/2013 1335	04/12/2013 0950
680-89275-15	CV0050A-CS-SP	Solid	04/10/2013 1045	04/12/2013 0950
680-89275-16	CV0050B-CS-SP	Solid	04/10/2013 1056	04/12/2013 0950
680-89275-17	CV0133A-CS-SP	Solid	04/10/2013 0948	04/12/2013 0950
680-89275-18	CV0133B-CS-SP	Solid	04/10/2013 1005	04/12/2013 0950
680-89275-19	CV0318A-CS-SP	Solid	04/10/2013 1435	04/12/2013 0950
680-89275-20	CV0318B-CS-SP	Solid	04/10/2013 1445	04/12/2013 0950

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

Sdg Number: 68089275-1

<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	
<b>Matrix: Water</b>			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C

### 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: 680-89275-1

Sdg Number: 68089275-1

<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: 680-89275-1

Sdg Number: 68089275-1

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

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

Sdg Number: 68089275-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-136462</b>					
LCS 660-136462/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136462/1-A	Method Blank	T	Solid	3546	
680-89275-2	CV0877A-CS	T	Solid	3546	
680-89275-2MS	Matrix Spike	T	Solid	3546	
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89275-5	CV1086A-CS	T	Solid	3546	
680-89275-6	CV1086B-GS	T	Solid	3546	
680-89275-7	CV1086C-GS	T	Solid	3546	
680-89275-8	CV01088A-CS	T	Solid	3546	
680-89275-9	CV01088B-GS	T	Solid	3546	
680-89275-10	CV1090A-CS	T	Solid	3546	
680-89275-10DL	CV1090A-CS	T	Solid	3546	
680-89275-11	CV1090A-CSD	T	Solid	3546	
680-89275-12	CV1091A-CS	T	Solid	3546	
680-89275-13	CV1357A-CS	T	Solid	3546	
680-89275-14	CV1357B-CS	T	Solid	3546	
680-89275-15	CV0050A-CS-SP	T	Solid	3546	
680-89275-16	CV0050B-CS-SP	T	Solid	3546	
680-89275-17	CV0133A-CS-SP	T	Solid	3546	
680-89275-18	CV0133B-CS-SP	T	Solid	3546	
680-89275-19	CV0318A-CS-SP	T	Solid	3546	
680-89275-20	CV0318B-CS-SP	T	Solid	3546	
<b>Prep Batch: 660-136486</b>					
640-42984-B-1-C MS	Matrix Spike	E	Water		
<b>Prep Batch: 660-136534</b>					
LCS 660-136534/2-A	Lab Control Sample	T	Water	3520C	
MB 660-136534/1-A	Method Blank	T	Water	3520C	
640-42984-B-1-C MS	Matrix Spike	E	Water	3520C	660-136486
680-89275-1	04113-RB-Bowls + Spoons	T	Water	3520C	
680-89275-1DU	Duplicate	T	Water	3520C	

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

Sdg Number: 68089275-1

### 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:660-136590</b>					
LCS 660-136462/2-A	Lab Control Sample	T	Solid	8270C LL	660-136462
MB 660-136462/1-A	Method Blank	T	Solid	8270C LL	660-136462
680-89275-2	CV0877A-CS	T	Solid	8270C LL	660-136462
680-89275-2MS	Matrix Spike	T	Solid	8270C LL	660-136462
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136462
680-89275-5	CV1086A-CS	T	Solid	8270C LL	660-136462
680-89275-6	CV1086B-GS	T	Solid	8270C LL	660-136462
680-89275-7	CV1086C-GS	T	Solid	8270C LL	660-136462
680-89275-8	CV01088A-CS	T	Solid	8270C LL	660-136462
680-89275-9	CV01088B-GS	T	Solid	8270C LL	660-136462
680-89275-10	CV1090A-CS	T	Solid	8270C LL	660-136462
680-89275-10DL	CV1090A-CS	T	Solid	8270C LL	660-136462
680-89275-11	CV1090A-CSD	T	Solid	8270C LL	660-136462
680-89275-12	CV1091A-CS	T	Solid	8270C LL	660-136462
680-89275-13	CV1357A-CS	T	Solid	8270C LL	660-136462
680-89275-14	CV1357B-CS	T	Solid	8270C LL	660-136462
680-89275-15	CV0050A-CS-SP	T	Solid	8270C LL	660-136462
680-89275-16	CV0050B-CS-SP	T	Solid	8270C LL	660-136462
680-89275-17	CV0133A-CS-SP	T	Solid	8270C LL	660-136462
680-89275-18	CV0133B-CS-SP	T	Solid	8270C LL	660-136462
680-89275-19	CV0318A-CS-SP	T	Solid	8270C LL	660-136462
680-89275-20	CV0318B-CS-SP	T	Solid	8270C LL	660-136462
<b>Analysis Batch:660-136605</b>					
LCS 660-136534/2-A	Lab Control Sample	T	Water	8270C LL	660-136534
MB 660-136534/1-A	Method Blank	T	Water	8270C LL	660-136534
640-42984-B-1-C MS	Matrix Spike	E	Water	8270C LL	660-136534
680-89275-1	04113-RB-Bowls + Spoons	T	Water	8270C LL	660-136534
680-89275-1DU	Duplicate	T	Water	8270C LL	660-136534

**Report Basis**

E = SPLP East

T = Total



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

Sdg Number: 68089275-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-136437</b>					
680-89275-13	CV1357A-CS	T	Solid	Moisture	
680-89275-14	CV1357B-CS	T	Solid	Moisture	
680-89275-15	CV0050A-CS-SP	T	Solid	Moisture	
680-89275-16	CV0050B-CS-SP	T	Solid	Moisture	
680-89275-17	CV0133A-CS-SP	T	Solid	Moisture	
680-89275-18	CV0133B-CS-SP	T	Solid	Moisture	
680-89275-19	CV0318A-CS-SP	T	Solid	Moisture	
680-89275-20	CV0318B-CS-SP	T	Solid	Moisture	
680-89275-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-89275-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
<b>Analysis Batch:660-136438</b>					
LCS 660-136438/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-136438/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-89275-2	CV0877A-CS	T	Solid	Moisture	
680-89275-2MS	Matrix Spike	T	Solid	Moisture	
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89275-5	CV1086A-CS	T	Solid	Moisture	
680-89275-6	CV1086B-GS	T	Solid	Moisture	
680-89275-7	CV1086C-GS	T	Solid	Moisture	
680-89275-8	CV01088A-CS	T	Solid	Moisture	
680-89275-9	CV01088B-GS	T	Solid	Moisture	
680-89275-10	CV1090A-CS	T	Solid	Moisture	
680-89275-11	CV1090A-CSD	T	Solid	Moisture	
680-89275-12	CV1091A-CS	T	Solid	Moisture	

**Report Basis**

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Instrument 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.: 680-89275-1

SDG No.: 68089275-1

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.: 680-89275-1SDG No.: 68089275-1Instrument ID: BSMC5973 Analysis Batch Number: 136590Lab Sample ID: CCVIS 660-136590/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/17/13 10:18 Lab File ID: 1CD17003.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	04/17/13 10:33

Lab Sample ID: LCS 660-136462/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/17/13 11:13 Lab File ID: 1CD17006.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	04/17/13 15:42

Lab Sample ID: 680-89275-2 Client Sample ID: CV0877A-CSDate Analyzed: 04/17/13 11:31 Lab File ID: 1CD17007.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	04/17/13 15:44
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/17/13 15:44

Lab Sample ID: 680-89275-2 MS Client Sample ID: CV0877A-CS MSDate Analyzed: 04/17/13 11:49 Lab File ID: 1CD17008.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	04/17/13 15:45

Lab Sample ID: 680-89275-2 MSD Client Sample ID: CV0877A-CS MSDDate Analyzed: 04/17/13 12:08 Lab File ID: 1CD17009.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	04/17/13 15:45

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Instrument ID: BSMC5973 Analysis Batch Number: 136590Lab Sample ID: 680-89275-5 Client Sample ID: CV1086A-CSDate Analyzed: 04/17/13 12:26 Lab File ID: 1CD17010.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	04/17/13 15:47
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/17/13 15:47

Lab Sample ID: 680-89275-8 Client Sample ID: CV01088A-CSDate Analyzed: 04/17/13 13:21 Lab File ID: 1CD17013.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	04/17/13 15:52
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/17/13 15:52
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/17/13 15:52

Lab Sample ID: 680-89275-9 Client Sample ID: CV01088B-GSDate Analyzed: 04/17/13 13:39 Lab File ID: 1CD17014.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	04/17/13 15:53
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/17/13 15:54
Indeno[1,2,3-cd]pyrene	9.91	Baseline Event	cantins	04/17/13 15:54
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/17/13 15:54

Lab Sample ID: 680-89275-10 Client Sample ID: CV1090A-CSDate Analyzed: 04/17/13 13:58 Lab File ID: 1CD17015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/17/13 15:56
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/17/13 15:57

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Instrument ID: BSMC5973 Analysis Batch Number: 136590Lab Sample ID: 680-89275-11 Client Sample ID: CV1090A-CSDDate Analyzed: 04/17/13 14:16 Lab File ID: 1CD17016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.46	Baseline Event	cantins	04/17/13 16:00
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/17/13 15:59
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/17/13 16:00

Lab Sample ID: 680-89275-12 Client Sample ID: CV1091A-CSDate Analyzed: 04/17/13 14:34 Lab File ID: 1CD17017.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	04/17/13 16:01
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/17/13 16:01

Lab Sample ID: 680-89275-13 Client Sample ID: CV1357A-CSDate Analyzed: 04/17/13 14:53 Lab File ID: 1CD17018.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	04/17/13 16:03
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/17/13 16:03
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/17/13 16:03

Lab Sample ID: 680-89275-14 Client Sample ID: CV1357B-CSDate Analyzed: 04/17/13 15:11 Lab File ID: 1CD17019.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	04/18/13 11:34
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/18/13 11:35
Benzo[a]pyrene	8.73	Baseline Event	cantins	04/18/13 11:35
Indeno[1,2,3-cd]pyrene	9.89	Baseline Event	cantins	04/18/13 11:36

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Instrument ID: BSMC5973 Analysis Batch Number: 136590Lab Sample ID: 680-89275-15 Client Sample ID: CV0050A-CS-SPDate Analyzed: 04/17/13 15:29 Lab File ID: 1CD17020.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	04/18/13 11:37
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/18/13 11:37
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/18/13 11:37

Lab Sample ID: 680-89275-16 Client Sample ID: CV0050B-CS-SPDate Analyzed: 04/17/13 15:48 Lab File ID: 1CD17021.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	04/18/13 11:38
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/18/13 11:39
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/18/13 11:39
Dibenz(a,h)anthracene	9.92	Baseline Event	cantins	04/18/13 11:39

Lab Sample ID: 680-89275-17 Client Sample ID: CV0133A-CS-SPDate Analyzed: 04/17/13 16:06 Lab File ID: 1CD17022.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	04/18/13 11:41
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/18/13 11:41
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/18/13 11:42

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Instrument ID: BSMC5973 Analysis Batch Number: 136590Lab Sample ID: 680-89275-18 Client Sample ID: CV0133B-CS-SPDate Analyzed: 04/17/13 16:24 Lab File ID: 1CD17023.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	04/18/13 11:43
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/18/13 11:43
Indeno[1,2,3-cd]pyrene	9.91	Baseline Event	cantins	04/18/13 11:45
Benzo[g,h,i]perylene	10.25	Baseline Event	cantins	04/18/13 11:44

Lab Sample ID: 680-89275-19 Client Sample ID: CV0318A-CS-SPDate Analyzed: 04/17/13 16:43 Lab File ID: 1CD17024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/18/13 11:47
Indeno[1,2,3-cd]pyrene	9.90	Baseline Event	cantins	04/18/13 11:47
Benzo[g,h,i]perylene	10.25	Baseline Event	cantins	04/18/13 11:47

Lab Sample ID: 680-89275-20 Client Sample ID: CV0318B-CS-SPDate Analyzed: 04/17/13 17:01 Lab File ID: 1CD17025.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	04/18/13 11:48
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/18/13 11:49
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/18/13 11:49
Dibenz(a,h)anthracene	9.92	Baseline Event	cantins	04/18/13 11:49
Benzo[g,h,i]perylene	10.24	Baseline Event	cantins	04/18/13 11:49



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Instrument ID: BSMC5973 Analysis Batch Number: 136590Lab Sample ID: 680-89275-10 DL Client Sample ID: CV1090A-CS DLDate Analyzed: 04/17/13 18:14 Lab File ID: 1CD17029.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	04/18/13 11:28

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Instrument 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: 640-42984-B-1-C MS Client Sample ID: \_\_\_\_\_Date Analyzed: 04/18/13 13:51 Lab File ID: 1CD18009.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	04/18/13 14:29
Benzo[g,h,i]perylene	10.21	Baseline Event	cantins	04/18/13 14:29

Lab Sample ID: LCS 660-136534/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/18/13 14:09 Lab File ID: 1CD18010.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	04/18/13 14:30

# 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.: 680-89275-1

SDG No.: 68089275-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0877A-CS	680-89275-2	45
CV1086A-CS	680-89275-5	80
CV1086B-GS	680-89275-6	61
CV1086C-GS	680-89275-7	65
CV01088A-CS	680-89275-8	48
CV01088B-GS	680-89275-9	54
CV1090A-CS	680-89275-10	67
CV1090A-CSD	680-89275-11	67
CV1091A-CS	680-89275-12	57
CV1357A-CS	680-89275-13	39
CV1357B-CS	680-89275-14	57
CV0050A-CS-SP	680-89275-15	51
CV0050B-CS-SP	680-89275-16	56
CV0133A-CS-SP	680-89275-17	57
CV0133B-CS-SP	680-89275-18	67
CV0318A-CS-SP	680-89275-19	40
CV0318B-CS-SP	680-89275-20	56
	MB 660-136462/1-A	61
	LCS 660-136462/2-A	64
CV0877A-CS MS	680-89275-2 MS	36
CV0877A-CS MSD	680-89275-2 MSD	39

OTPH = o-Terphenyl

QC LIMITS  
30-130

# Column to be used to flag recovery values

FORM II 8270C LL

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-89275-1

SDG No.: 68089275-1

Matrix: Water

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
04113-RB-Bowls + Spoons	680-89275-1	70
	MB 660-136534/1-A	67
	LCS 660-136534/2-A	79
04113-RB-Bowls + Spoons DU	680-89275-1 DU	61

OTPH = o-Terphenyl

QC LIMITS  
30-130

# Column to be used to flag recovery values

FORM II 8270C LL

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-89275-1

SDG No.: 68089275-1

Matrix: Water (SPLP East)

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	640-42984-B-1-C MS	40

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.: 680-89275-1  
 SDG No.: 68089275-1  
 Matrix: Solid Level: Low Lab File ID: 1CD17006.D  
 Lab ID: LCS 660-136462/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	657	354	54	39-130	
Acenaphthylene	657	363	55	38-130	
Anthracene	657	424	65	37-130	
Benzo[a]anthracene	657	398	61	40-130	
Benzo[a]pyrene	657	358	54	49-130	
Benzo[b]fluoranthene	657	432	66	37-130	
Benzo[g,h,i]perylene	657	399	61	32-130	
Benzo[k]fluoranthene	657	380	58	32-130	
Chrysene	657	402	61	41-130	
Dibenz(a,h)anthracene	657	426	65	27-130	
Fluoranthene	657	381	58	40-130	
Fluorene	657	395	60	40-130	
Indeno[1,2,3-cd]pyrene	657	392	60	30-130	
1-Methylnaphthalene	657	392	60	31-130	
2-Methylnaphthalene	657	388	59	33-130	
Naphthalene	657	381	58	36-130	
Phenanthrene	657	391	59	42-130	
Pyrene	657	394	60	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Matrix: Water Level: Low Lab File ID: 1CD18010.D  
 Lab ID: LCS 660-136534/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	7.86	79	55-132	
Acenaphthylene	10.0	8.60	86	39-130	
Anthracene	10.0	7.92	79	39-130	
Benzo[a]anthracene	10.0	8.02	80	54-135	
Benzo[a]pyrene	10.0	5.44	54	21-130	
Benzo[b]fluoranthene	10.0	6.24	62	37-130	
Benzo[g,h,i]perylene	10.0	4.04	40	26-130	
Benzo[k]fluoranthene	10.0	6.17	62	38-130	
Chrysene	10.0	7.37	74	56-130	
Dibenz(a,h)anthracene	10.0	4.51	45	13-130	
Fluoranthene	10.0	7.98	80	60-130	
Fluorene	10.0	9.15	91	55-140	
Indeno[1,2,3-cd]pyrene	10.0	4.49	45	21-130	
1-Methylnaphthalene	10.0	6.89	69	49-130	
2-Methylnaphthalene	10.0	7.46	75	48-130	
Naphthalene	10.0	7.43	74	54-133	
Phenanthrene	10.0	7.98	80	60-136	
Pyrene	10.0	7.79	78	60-138	

# 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.: 680-89275-1  
 SDG No.: 68089275-1  
 Matrix: Water (SPLP) Level: Low Lab File ID: 1CD18009.D  
 Lab ID: 640-42984-B-1-C MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	10.5	1.9 U	4.47	42	55-132	F
Acenaphthylene	10.5	0.95 U	5.16	49	39-130	
Anthracene	10.5	0.19 U	3.58	34	39-130	F
Benzo[a]anthracene	10.5	0.19 U	1.32	13	54-135	F
Benzo[a]pyrene	10.5	0.19 U	0.732	7	21-130	F
Benzo[b]fluoranthene	10.5	0.19 U	0.858	8	37-130	F
Benzo[g,h,i]perylene	10.5	0.48 U	0.675	6	26-130	F
Benzo[k]fluoranthene	10.5	0.19 U	1.05	10	38-130	F
Chrysene	10.5	0.19 U	1.11	11	56-130	F
Dibenz(a,h)anthracene	10.5	0.19 U	1.27	12	13-130	F
Fluoranthene	10.5	0.059 J	2.22	21	60-130	F
Fluorene	10.5	1.9 U	5.31	50	55-140	F
Indeno[1,2,3-cd]pyrene	10.5	0.19 U	1.44	14	21-130	F
1-Methylnaphthalene	10.5	1.9 U	6.10	58	49-130	
2-Methylnaphthalene	10.5	1.9 U	6.01	57	48-130	
Naphthalene	10.5	1.9 U	4.69	45	54-133	F
Phenanthrene	10.5	0.48 U	4.35	41	60-136	F
Pyrene	10.5	0.48 U	2.06	20	60-138	F

# 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.: 680-89275-1  
 SDG No.: 68089275-1  
 Matrix: Solid Level: Low Lab File ID: 1CD17008.D  
 Lab ID: 680-89275-2 MS Client ID: CV0877A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	840	130 U	342	41	39-130	
Acenaphthylene	840	100	376	32	38-130	F
Anthracene	840	79	367	34	37-130	F
Benzo[a]anthracene	840	340	608	32	40-130	F
Benzo[a]pyrene	840	300	496	23	49-130	F
Benzo[b]fluoranthene	840	580	747	19	37-130	F
Benzo[g,h,i]perylene	840	290	440	18	32-130	F
Benzo[k]fluoranthene	840	230	482	30	32-130	F
Chrysene	840	470	686	26	41-130	F
Dibenz(a,h)anthracene	840	140	347	25	27-130	F
Fluoranthene	840	450	634	22	40-130	F
Fluorene	840	26	368	41	40-130	
Indeno[1,2,3-cd]pyrene	840	260	432	21	30-130	F
1-Methylnaphthalene	840	360	681	39	31-130	
2-Methylnaphthalene	840	340	648	37	33-130	
Naphthalene	840	240	539	36	36-130	
Phenanthrene	840	460	668	25	42-130	F
Pyrene	840	440	673	27	44-130	F

# 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.: 680-89275-1  
 SDG No.: 68089275-1  
 Matrix: Solid Level: Low Lab File ID: 1CD17009.D  
 Lab ID: 680-89275-2 MSD Client ID: CV0877A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	836	316	38	8	40	39-130	F
Acenaphthylene	836	416	37	10	40	38-130	F
Anthracene	836	422	41	14	40	37-130	
Benzo[a]anthracene	836	749	49	21	40	40-130	
Benzo[a]pyrene	836	623	38	23	40	49-130	F
Benzo[b]fluoranthene	836	939	42	23	40	37-130	
Benzo[g,h,i]perylene	836	547	31	22	40	32-130	F
Benzo[k]fluoranthene	836	638	49	28	40	32-130	
Chrysene	836	867	48	23	40	41-130	
Dibenz(a,h)anthracene	836	352	26	2	40	27-130	F
Fluoranthene	836	1120	80	56	40	40-130	F
Fluorene	836	376	42	2	40	40-130	
Indeno[1,2,3-cd]pyrene	836	518	31	18	40	30-130	
1-Methylnaphthalene	836	714	43	5	40	31-130	
2-Methylnaphthalene	836	766	51	17	40	33-130	
Naphthalene	836	657	50	20	40	36-130	
Phenanthrene	836	1020	67	41	40	42-130	F
Pyrene	836	1090	77	48	40	44-130	F

# 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.: 680-89275-1  
 SDG No.: 68089275-1  
 Lab File ID: 1CD17005.D Lab Sample ID: MB 660-136462/1-A  
 Matrix: Solid Date Extracted: 04/16/2013 07:00  
 Instrument ID: BSMC5973 Date Analyzed: 04/17/2013 10:54  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136462/2-A	1CD17006.D	04/17/2013 11:13
CV0877A-CS	680-89275-2	1CD17007.D	04/17/2013 11:31
CV0877A-CS MS	680-89275-2 MS	1CD17008.D	04/17/2013 11:49
CV0877A-CS MSD	680-89275-2 MSD	1CD17009.D	04/17/2013 12:08
CV1086A-CS	680-89275-5	1CD17010.D	04/17/2013 12:26
CV1086B-GS	680-89275-6	1CD17011.D	04/17/2013 12:44
CV1086C-GS	680-89275-7	1CD17012.D	04/17/2013 13:03
CV01088A-CS	680-89275-8	1CD17013.D	04/17/2013 13:21
CV01088B-GS	680-89275-9	1CD17014.D	04/17/2013 13:39
CV1090A-CS	680-89275-10	1CD17015.D	04/17/2013 13:58
CV1090A-CSD	680-89275-11	1CD17016.D	04/17/2013 14:16
CV1091A-CS	680-89275-12	1CD17017.D	04/17/2013 14:34
CV1357A-CS	680-89275-13	1CD17018.D	04/17/2013 14:53
CV1357B-CS	680-89275-14	1CD17019.D	04/17/2013 15:11
CV0050A-CS-SP	680-89275-15	1CD17020.D	04/17/2013 15:29
CV0050B-CS-SP	680-89275-16	1CD17021.D	04/17/2013 15:48
CV0133A-CS-SP	680-89275-17	1CD17022.D	04/17/2013 16:06
CV0133B-CS-SP	680-89275-18	1CD17023.D	04/17/2013 16:24
CV0318A-CS-SP	680-89275-19	1CD17024.D	04/17/2013 16:43
CV0318B-CS-SP	680-89275-20	1CD17025.D	04/17/2013 17:01
CV1090A-CS DL	680-89275-10 DL	1CD17029.D	04/17/2013 18:14

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Lab File ID: 1CD18005.D Lab Sample ID: MB 660-136534/1-A  
 Matrix: Water Date Extracted: 04/17/2013 12:20  
 Instrument ID: BSMC5973 Date Analyzed: 04/18/2013 12:37  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	640-42984-B-1-C MS	1CD18009.D	04/18/2013 13:51
	LCS 660-136534/2-A	1CD18010.D	04/18/2013 14:09
04113-RB-Bowls + Spoons	680-89275-1	1CD18014.D	04/18/2013 15:22
04113-RB-Bowls + Spoons DU	680-89275-1 DU	1CD18015.D	04/18/2013 15:41

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 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.: 680-89275-1  
 SDG No.: 68089275-1  
 Lab File ID: 1CD17002.D DFTPP Injection Date: 04/17/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:01  
 Analysis Batch No.: 136590

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	58.3
68	Less than 2.0 % of mass 69	1.3 (2.0) 1
69	Mass 69 relative abundance	65.0
70	Less than 2.0 % of mass 69	0.6 (0.9) 1
127	10.0 - 80.0 % of mass 198	55.4
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.8
275	10.0 - 60.0 % of mass 198	24.1
365	Greater than 1.0 % of mass 198	4.2
441	Present but less than mass 443	7.1
442	Greater than 50.0 % of mass 198	52.8
443	15.0 - 24.0 % of mass 442	12.4 (23.5) 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 660-136590/3	1CD17003.D	04/17/2013	10:18
	MB 660-136462/1-A	1CD17005.D	04/17/2013	10:54
	LCS 660-136462/2-A	1CD17006.D	04/17/2013	11:13
CV0877A-CS	680-89275-2	1CD17007.D	04/17/2013	11:31
CV0877A-CS MS	680-89275-2 MS	1CD17008.D	04/17/2013	11:49
CV0877A-CS MSD	680-89275-2 MSD	1CD17009.D	04/17/2013	12:08
CV1086A-CS	680-89275-5	1CD17010.D	04/17/2013	12:26
CV1086B-GS	680-89275-6	1CD17011.D	04/17/2013	12:44
CV1086C-GS	680-89275-7	1CD17012.D	04/17/2013	13:03
CV01088A-CS	680-89275-8	1CD17013.D	04/17/2013	13:21
CV01088B-GS	680-89275-9	1CD17014.D	04/17/2013	13:39
CV1090A-CS	680-89275-10	1CD17015.D	04/17/2013	13:58
CV1090A-CSD	680-89275-11	1CD17016.D	04/17/2013	14:16
CV1091A-CS	680-89275-12	1CD17017.D	04/17/2013	14:34
CV1357A-CS	680-89275-13	1CD17018.D	04/17/2013	14:53
CV1357B-CS	680-89275-14	1CD17019.D	04/17/2013	15:11
CV0050A-CS-SP	680-89275-15	1CD17020.D	04/17/2013	15:29
CV0050B-CS-SP	680-89275-16	1CD17021.D	04/17/2013	15:48
CV0133A-CS-SP	680-89275-17	1CD17022.D	04/17/2013	16:06
CV0133B-CS-SP	680-89275-18	1CD17023.D	04/17/2013	16:24
CV0318A-CS-SP	680-89275-19	1CD17024.D	04/17/2013	16:43
CV0318B-CS-SP	680-89275-20	1CD17025.D	04/17/2013	17:01
CV1090A-CS DL	680-89275-10 DL	1CD17029.D	04/17/2013	18:14

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 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 660-136534/1-A	1CD18005.D	04/18/2013	12:37
	640-42984-B-1-C MS	1CD18009.D	04/18/2013	13:51
	LCS 660-136534/2-A	1CD18010.D	04/18/2013	14:09
04113-RB-Bowls + Spoons	680-89275-1	1CD18014.D	04/18/2013	15:22
04113-RB-Bowls + Spoons DU	680-89275-1 DU	1CD18015.D	04/18/2013	15:41



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

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 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.: 680-89275-1  
 SDG No.: 68089275-1  
 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.: 680-89275-1  
 SDG No.: 68089275-1  
 Sample No.: CCVIS 660-136590/3 Date Analyzed: 04/17/2013 10:18  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD17003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	240478	3.66	150375	4.75	295718	5.70
UPPER LIMIT	480956	4.16	300750	5.25	591436	6.20
LOWER LIMIT	120239	3.16	75188	4.25	147859	5.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136462/1-A	254213	3.66	165374	4.75	306935	5.69
LCS 660-136462/2-A	268152	3.66	186703	4.75	330770	5.69
680-89275-2	CV0877A-CS	336934	216190	4.75	398132	5.69
680-89275-2 MS	CV0877A-CS MS	362237	252903	4.75	460657	5.70
680-89275-2 MSD	CV0877A-CS MSD	350766	234568	4.75	428425	5.70
680-89275-5	CV1086A-CS	320656	212946	4.75	389321	5.70
680-89275-6	CV1086B-GS	365575	250106	4.75	461159	5.70
680-89275-7	CV1086C-GS	343131	229486	4.75	414344	5.70
680-89275-8	CV01088A-CS	355926	237261	4.75	431408	5.70
680-89275-9	CV01088B-GS	336162	235415	4.75	424236	5.70
680-89275-10	CV1090A-CS	323456	225056	4.75	411814	5.70
680-89275-11	CV1090A-CSD	325944	223977	4.76	423721	5.70
680-89275-12	CV1091A-CS	335544	226647	4.75	425223	5.70
680-89275-13	CV1357A-CS	347478	247310	4.75	427165	5.70
680-89275-14	CV1357B-CS	323016	213342	4.75	397577	5.70
680-89275-15	CV0050A-CS-SP	348807	240423	4.76	429752	5.70
680-89275-16	CV0050B-CS-SP	360997	255342	4.75	440289	5.70
680-89275-17	CV0133A-CS-SP	340315	245654	4.75	430568	5.70
680-89275-18	CV0133B-CS-SP	356786	242571	4.76	437595	5.70
680-89275-19	CV0318A-CS-SP	312014	214909	4.75	397672	5.70
680-89275-20	CV0318B-CS-SP	324125	231967	4.76	418606	5.70
680-89275-10 DL	CV1090A-CS DL	354190	249301	4.76	443717	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.: 680-89275-1  
 SDG No.: 68089275-1  
 Sample No.: CCVIS 660-136590/3 Date Analyzed: 04/17/2013 10:18  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD17003.D Heated Purge: (Y/N) N  
 Calibration ID: 2882

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	362821	7.63	379421	8.78		
UPPER LIMIT	725642	8.13	758842	9.28		
LOWER LIMIT	181411	7.13	189711	8.28		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136462/1-A		368107	7.63	383045	8.78	
LCS 660-136462/2-A		411865	7.63	415510	8.78	
680-89275-2	CV0877A-CS	476300	7.63	457839	8.79	
680-89275-2 MS	CV0877A-CS MS	538817	7.63	516343	8.79	
680-89275-2 MSD	CV0877A-CS MSD	496833	7.63	456609	8.79	
680-89275-5	CV1086A-CS	437353	7.63	436202	8.79	
680-89275-6	CV1086B-GS	488495	7.63	474761	8.79	
680-89275-7	CV1086C-GS	456473	7.63	441015	8.79	
680-89275-8	CV01088A-CS	509591	7.63	465947	8.79	
680-89275-9	CV01088B-GS	466093	7.63	425287	8.79	
680-89275-10	CV1090A-CS	514124	7.63	429294	8.79	
680-89275-11	CV1090A-CSD	472169	7.63	443884	8.79	
680-89275-12	CV1091A-CS	468569	7.63	440387	8.79	
680-89275-13	CV1357A-CS	544323	7.63	454699	8.79	
680-89275-14	CV1357B-CS	443515	7.63	438897	8.79	
680-89275-15	CV0050A-CS-SP	456464	7.63	447884	8.79	
680-89275-16	CV0050B-CS-SP	470429	7.63	447009	8.79	
680-89275-17	CV0133A-CS-SP	484355	7.63	458373	8.79	
680-89275-18	CV0133B-CS-SP	476965	7.63	446686	8.79	
680-89275-19	CV0318A-CS-SP	440793	7.63	433595	8.79	
680-89275-20	CV0318B-CS-SP	450263	7.63	429487	8.79	
680-89275-10 DL	CV1090A-CS DL	501611	7.63	481667	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.: 680-89275-1  
 SDG No.: 68089275-1  
 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 660-136534/1-A		247540	3.66	178423	4.75	334717	5.69
640-42984-B-1-C MS		258024	3.66	185482	4.75	367599	5.69
LCS 660-136534/2-A		209025	3.66	133004	4.75	264879	5.69
680-89275-1	04113-RB-Bowls + Spoons	258626	3.66	183168	4.75	358481	5.69
680-89275-1 DU	04113-RB-Bowls + Spoons DU	271177	3.66	189753	4.75	358798	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.: 680-89275-1  
 SDG No.: 68089275-1  
 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 660-136534/1-A		412162	7.62	455980	8.78	
640-42984-B-1-C MS		453778	7.62	428900	8.77	
LCS 660-136534/2-A		337029	7.62	339368	8.77	
680-89275-1	04113-RB-Bowls + Spoons	433357	7.62	442266	8.78	
680-89275-1 DU	04113-RB-Bowls + Spoons DU	462318	7.62	445114	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 I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: 04113-RB-Bowls + Spoons Lab Sample ID: 680-89275-1  
 Matrix: Water Lab File ID: 1CD18014.D  
 Analysis Method: 8270C LL Date Collected: 04/11/2013 08:10  
 Extract. Method: 3520C Date Extracted: 04/17/2013 12:20  
 Sample wt/vol: 990(mL) Date Analyzed: 04/18/2013 15:22  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136605 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.51
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.077
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.051
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.058
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.051
191-24-2	Benzo[g,h,i]perylene	0.51	U	0.51	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.058
218-01-9	Chrysene	0.20	U	0.20	0.070
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.051
206-44-0	Fluoranthene	0.51	U	0.51	0.055
86-73-7	Fluorene	2.0	U	2.0	0.51
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.051
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.51
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.51
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.51	U	0.51	0.20
129-00-0	Pyrene	0.51	U	0.51	0.090

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\1CD18014.D  
 Lab Smp Id: 680-89275-B-1-A Client Smp ID: 04113-RB-Bowls + Sp  
 Inj Date : 18-APR-2013 15:22  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-b-1-a  
 Misc Info : 680-89275-B-1-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: 14  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	990.000	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	3.657	3.663	(1.000)	258626	40.0000	
* 6 Acenaphthene-d10	=====	164	4.745	4.745	(1.000)	183168	40.0000	
* 10 Phenanthrene-d10	=====	188	5.692	5.692	(1.000)	358481	40.0000	
\$ 14 o-Terphenyl	=====	230	5.939	5.945	(1.043)	37189	6.95434	7.0245
* 18 Chrysene-d12	=====	240	7.621	7.627	(1.000)	433357	40.0000	
* 23 Perylene-d12	=====	264	8.780	8.780	(1.000)	442266	40.0000	



Data File: 1CD18014.D

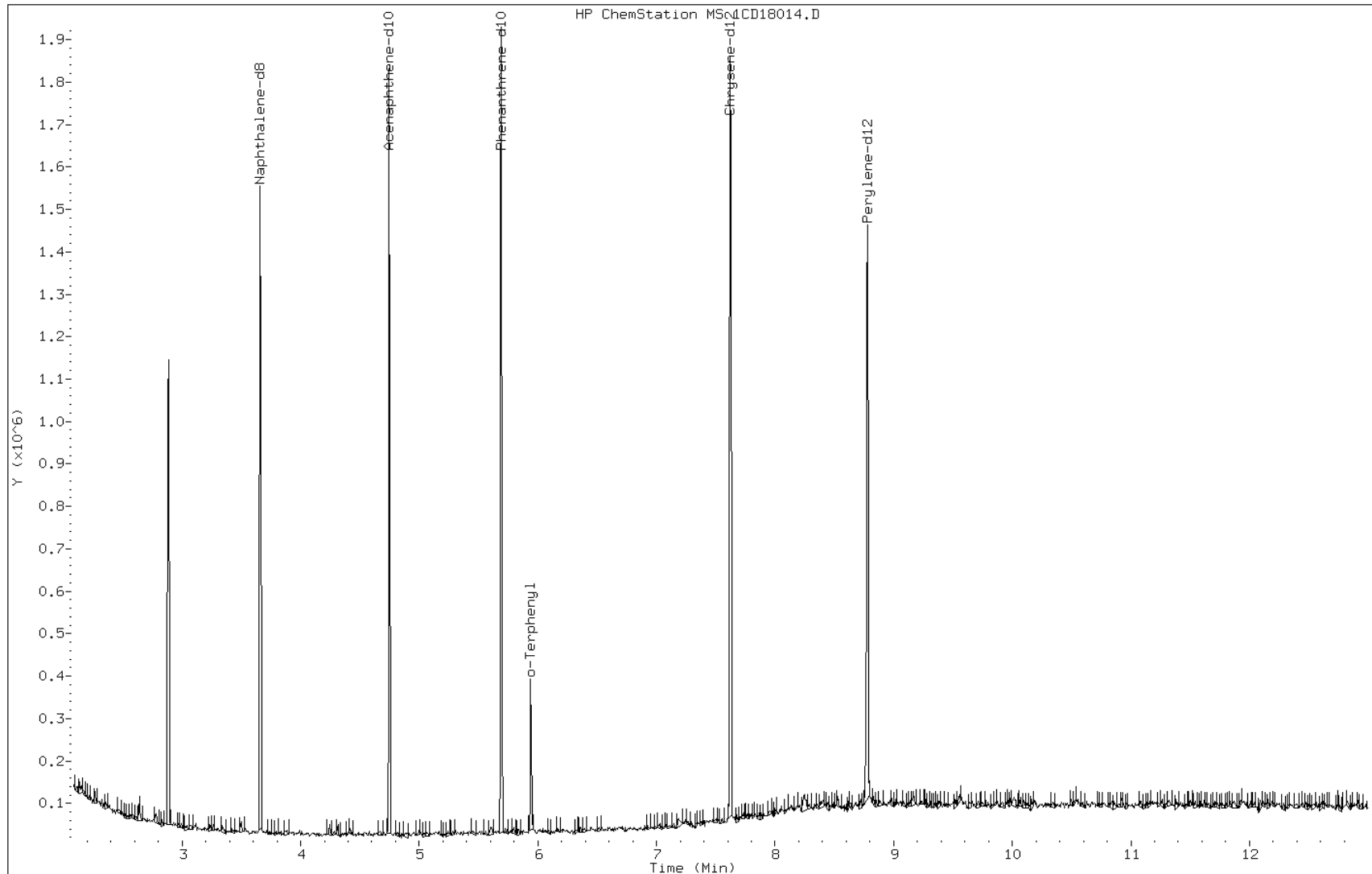
Date: 18-APR-2013 15:22

Client ID: 04113-RB-Bowls + Sp

Instrument: BSMC5973.i

Sample Info: 680-89275-b-1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0877A-CS Lab Sample ID: 680-89275-2  
 Matrix: Solid Lab File ID: 1CD17007.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 14:15  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.01(g) Date Analyzed: 04/17/2013 11:31  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U F	130	25
208-96-8	Acenaphthylene	100	F	50	6.3
120-12-7	Anthracene	79	F	11	5.3
56-55-3	Benzo[a]anthracene	340	F	10	4.9
50-32-8	Benzo[a]pyrene	300	F	13	6.5
205-99-2	Benzo[b]fluoranthene	580	F	15	7.7
191-24-2	Benzo[g,h,i]perylene	290	F	25	5.5
207-08-9	Benzo[k]fluoranthene	230	F	10	4.5
218-01-9	Chrysene	470	F	11	5.7
53-70-3	Dibenz(a,h)anthracene	140	F	25	5.1
206-44-0	Fluoranthene	450	F	25	5.0
86-73-7	Fluorene	26		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	260	F	25	8.9
90-12-0	1-Methylnaphthalene	360		50	5.5
91-57-6	2-Methylnaphthalene	340		50	8.9
91-20-3	Naphthalene	240		50	5.5
85-01-8	Phenanthrene	460	F	10	4.9
129-00-0	Pyrene	440	F	25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17007.D  
 Lab Smp Id: 680-89275-A-2-A Client Smp ID: CV0877A-CS  
 Inj Date : 17-APR-2013 11:31  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-2-a  
 Misc Info : 680-89275-A-2-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 7  
 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	15.010	Weight Extracted
M	20.421	% 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)	336934	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	216190	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.698	(1.000)	398132	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	25142	4.50315	376.9960	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	476300	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	457839	40.0000		
2 Naphthalene	128		3.680	3.680	(1.005)	25941	2.84820	238.4464	
3 2-Methylnaphthalene	142		4.104	4.104	(1.120)	22985	4.04614	338.7357	
4 1-Methylnaphthalene	142		4.168	4.168	(1.138)	24716	4.24838	355.6668	
5 Acenaphthylene	152		4.663	4.663	(0.981)	11368	1.24094	103.8895	
9 Fluorene	166		5.092	5.092	(1.072)	2180	0.31030	25.9777(Q)	
11 Phenanthrene	178		5.710	5.709	(1.003)	63547	5.44516	455.8594	
12 Anthracene	178		5.745	5.745	(1.009)	10924	0.94513	79.1245	
13 Carbazole	167		5.851	5.851	(1.028)	9826	0.91280	76.4176	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.539	6.545	(1.149)	69628	5.39105	451.3290
16 Pyrene	202	6.709	6.709	(0.880)	71979	5.31201	444.7122
17 Benzo(a)anthracene	228	7.621	7.621	(0.999)	54064	4.01401	336.0457
19 Chrysene	228	7.645	7.651	(1.002)	74366	5.58134	467.2602
20 Benzo(b)fluoranthene	252	8.451	8.450	(0.962)	80684	6.97726	584.1243
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	36142	2.76207	231.2355(Q)
22 Benzo(a)pyrene	252	8.733	8.733	(0.994)	43350	3.62659	303.6119
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.903	(1.127)	29247	3.10221	259.7116(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.915	(1.127)	14009	1.64194	137.4599
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	38584	3.44379	288.3077(M)

QC Flag Legend

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

Data File: 1CD17007.D

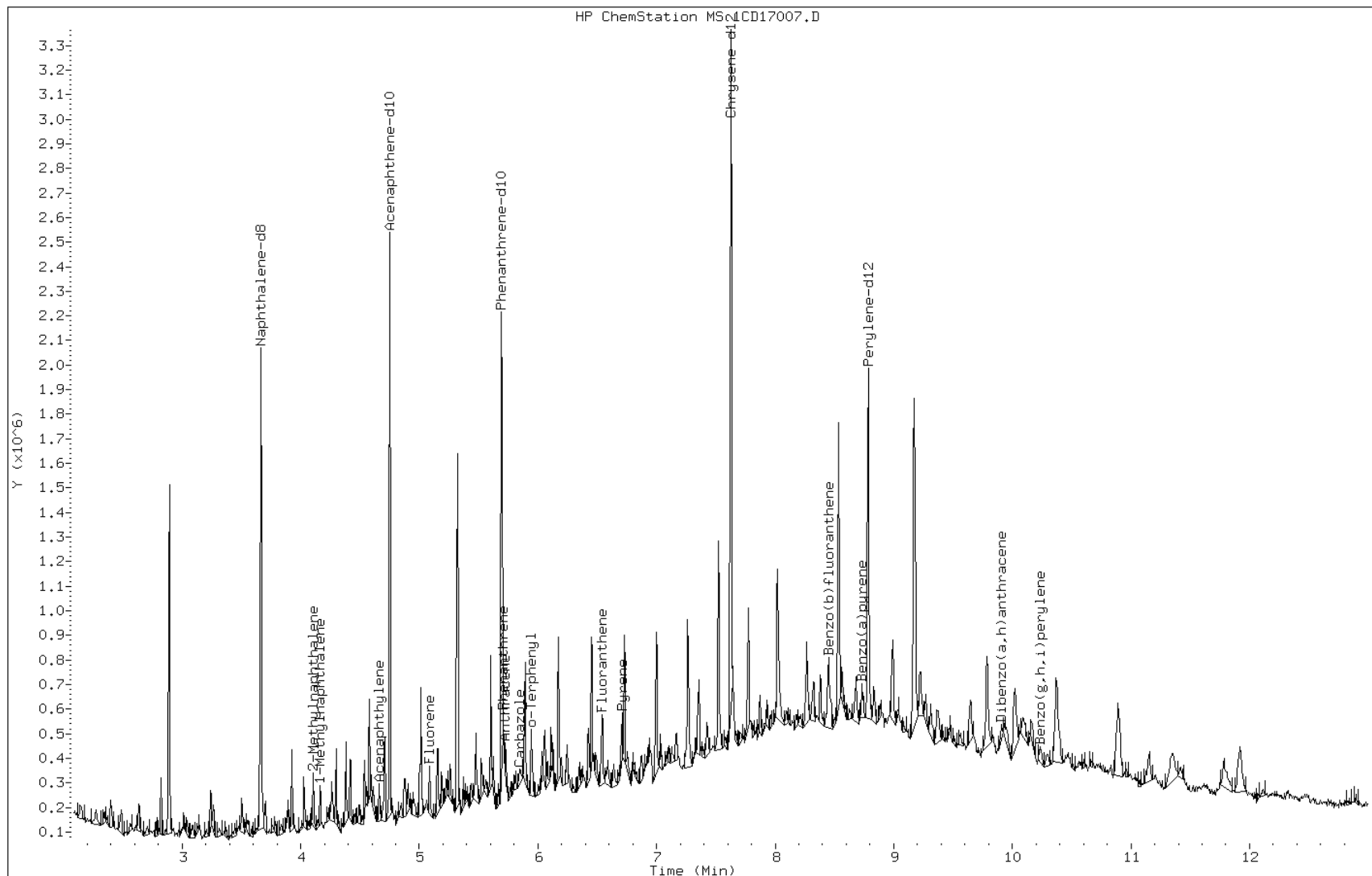
Date: 17-APR-2013 11:31

Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

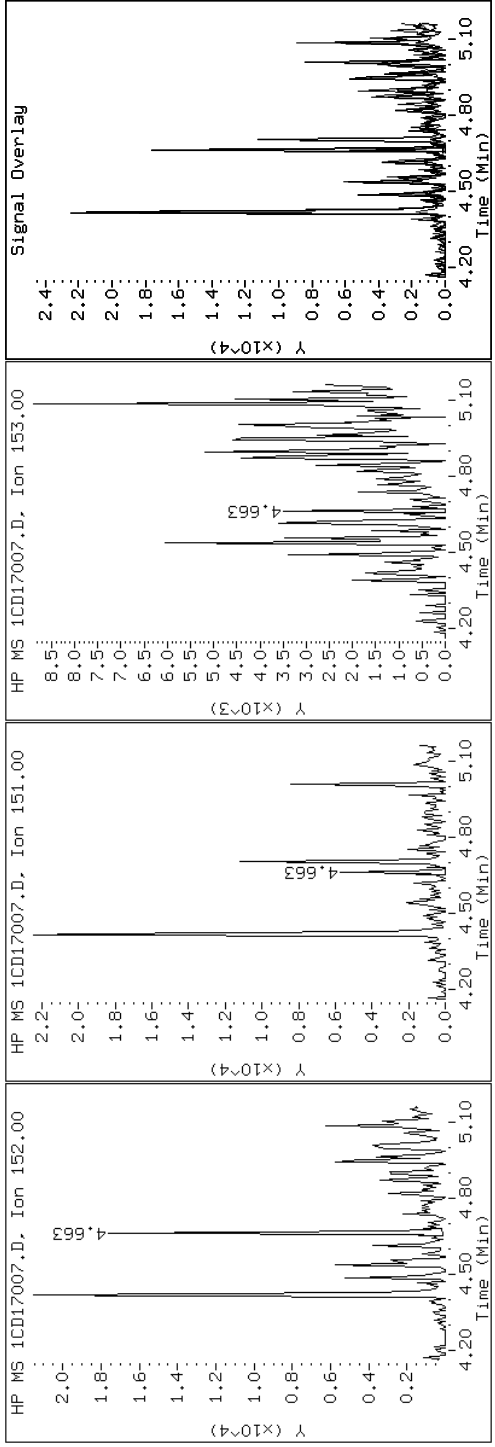
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

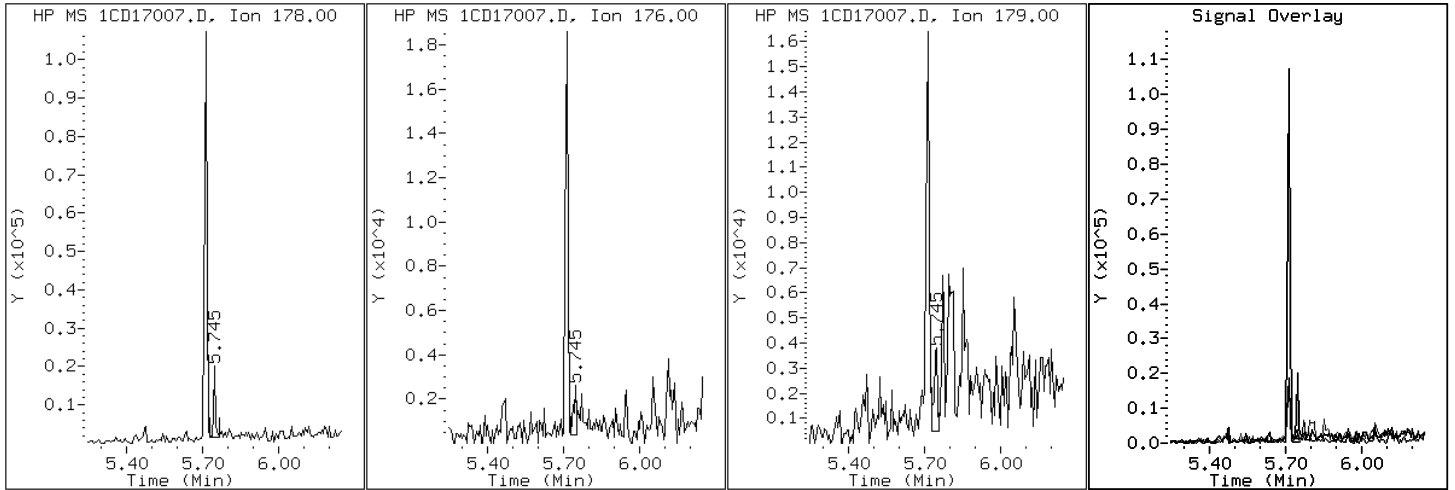
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

12 Anthracene



Data File: 1CDI17007.D

Date: 17-APR-2013 11:31

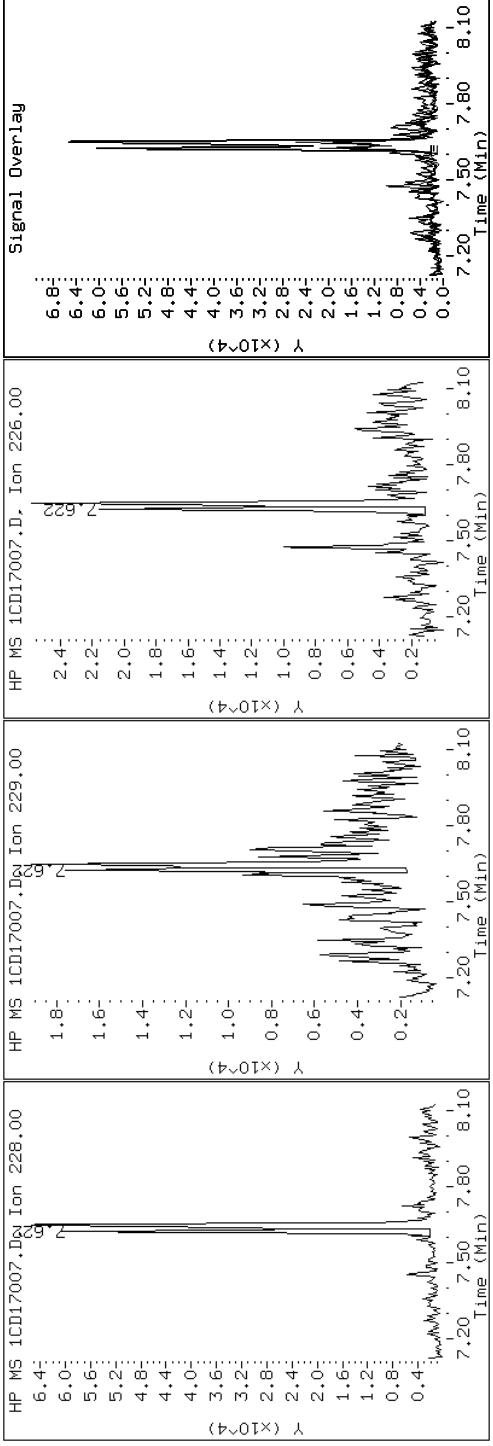
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD17007.D

Date: 17-APR-2013 11:31

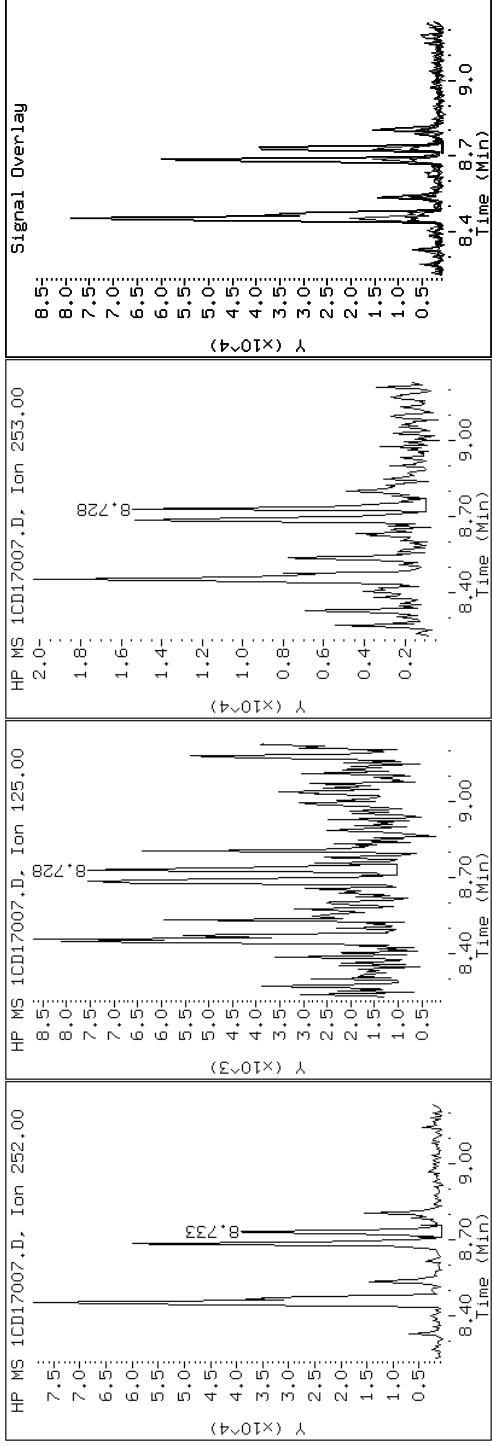
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

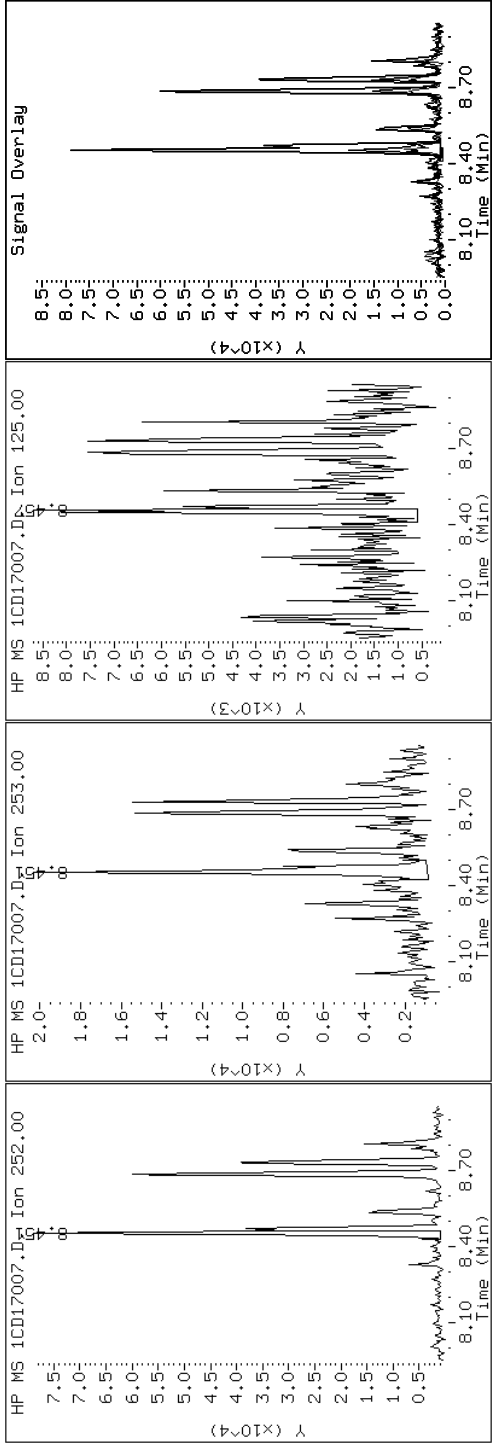
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CDI17007.D

Date: 17-APR-2013 11:31

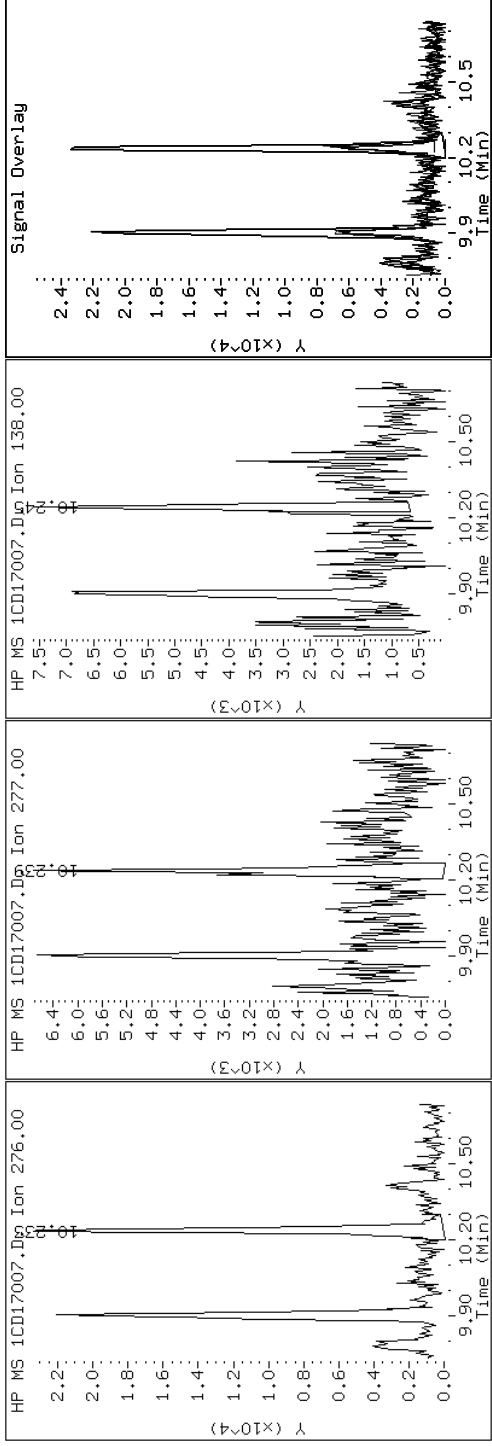
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

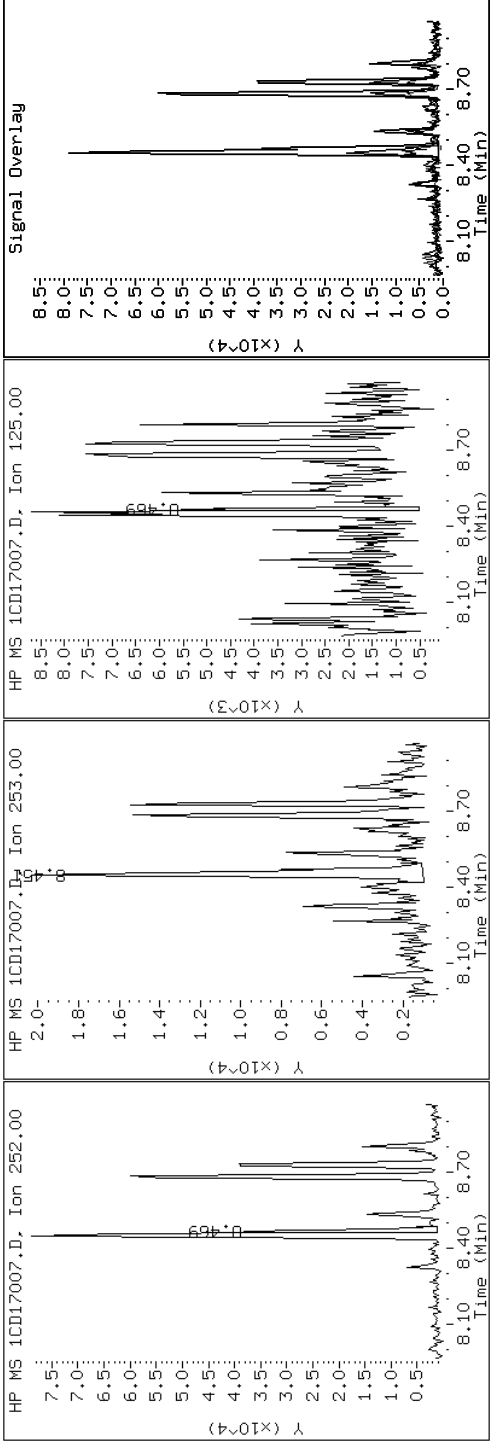
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CDI17007.D

Date: 17-APR-2013 11:31

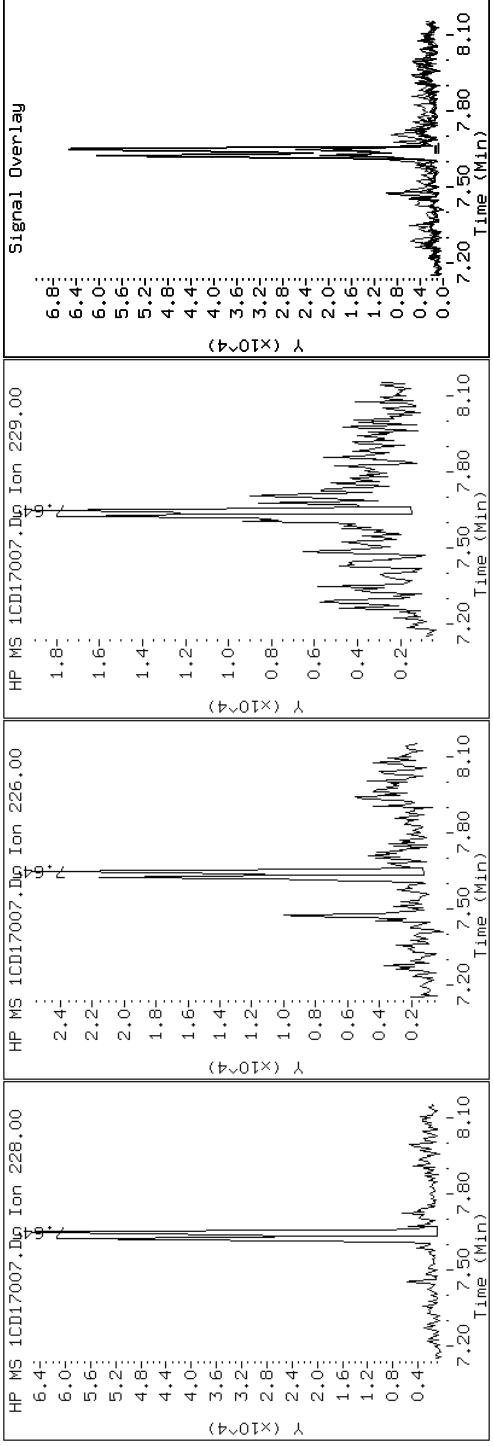
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

19 Chrysene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

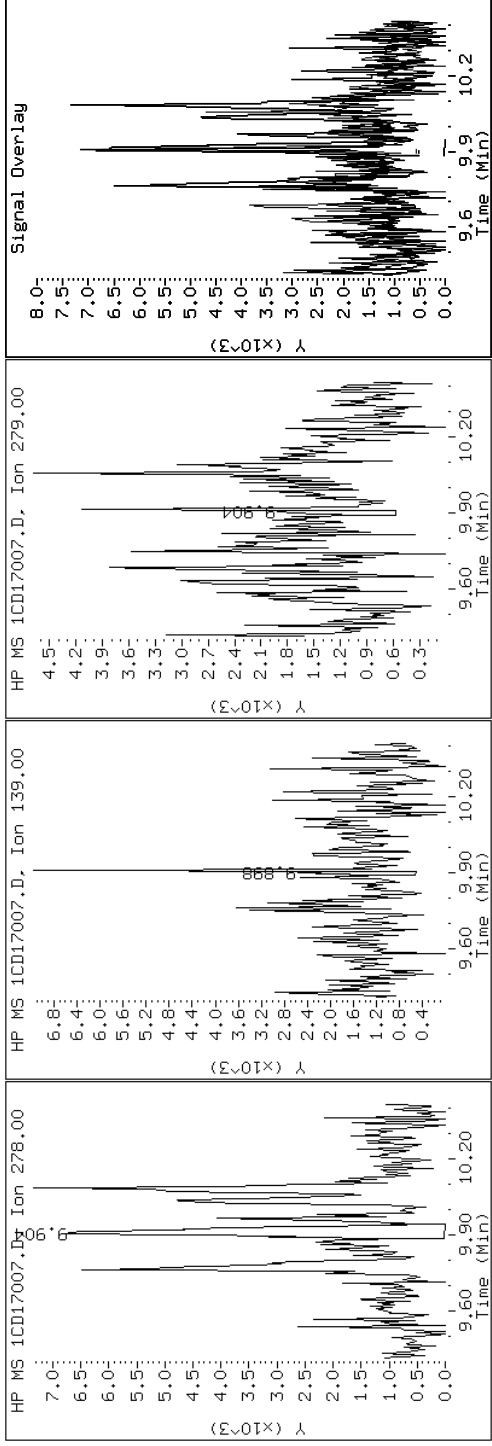
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

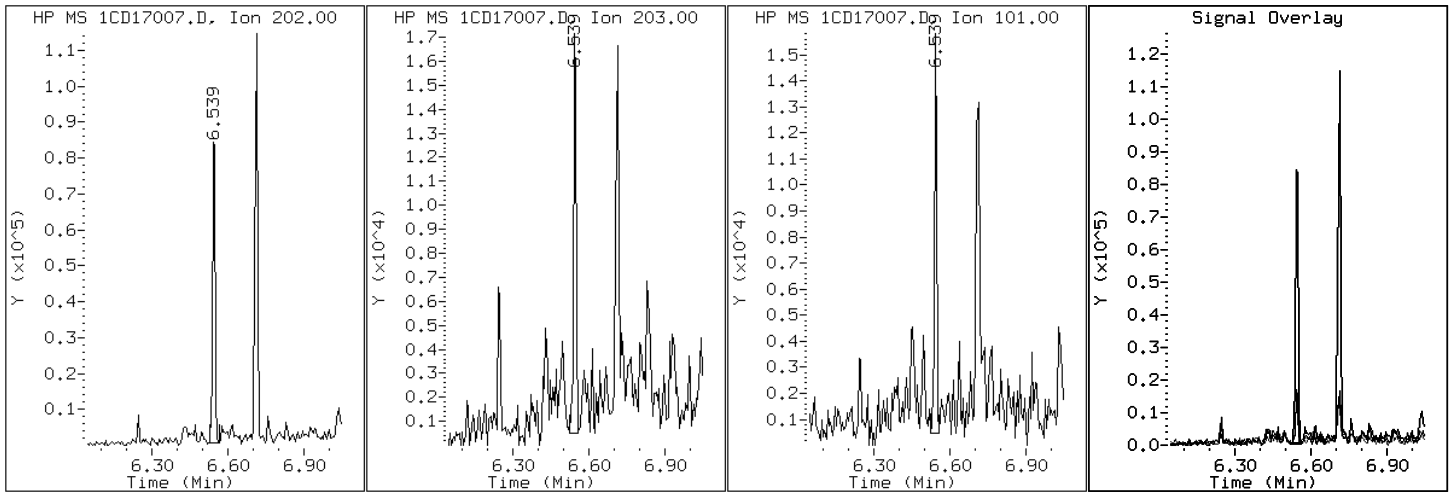
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CDI17007.D

Date: 17-APR-2013 11:31

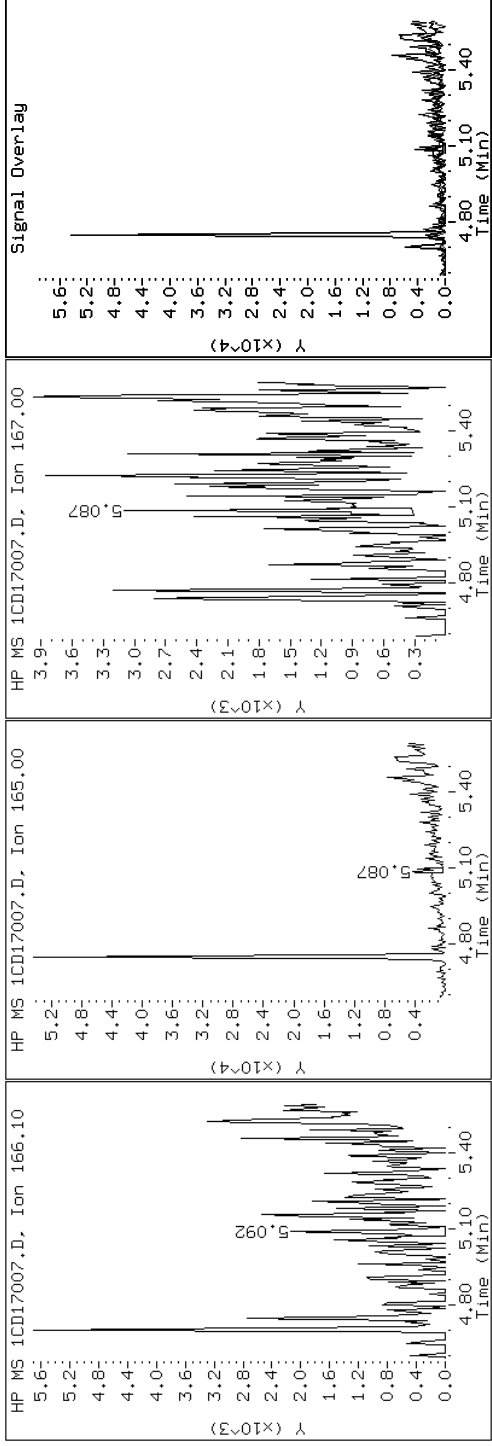
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

9 Fluorene





Data File: 1CDI17007.D

Date: 17-APR-2013 11:31

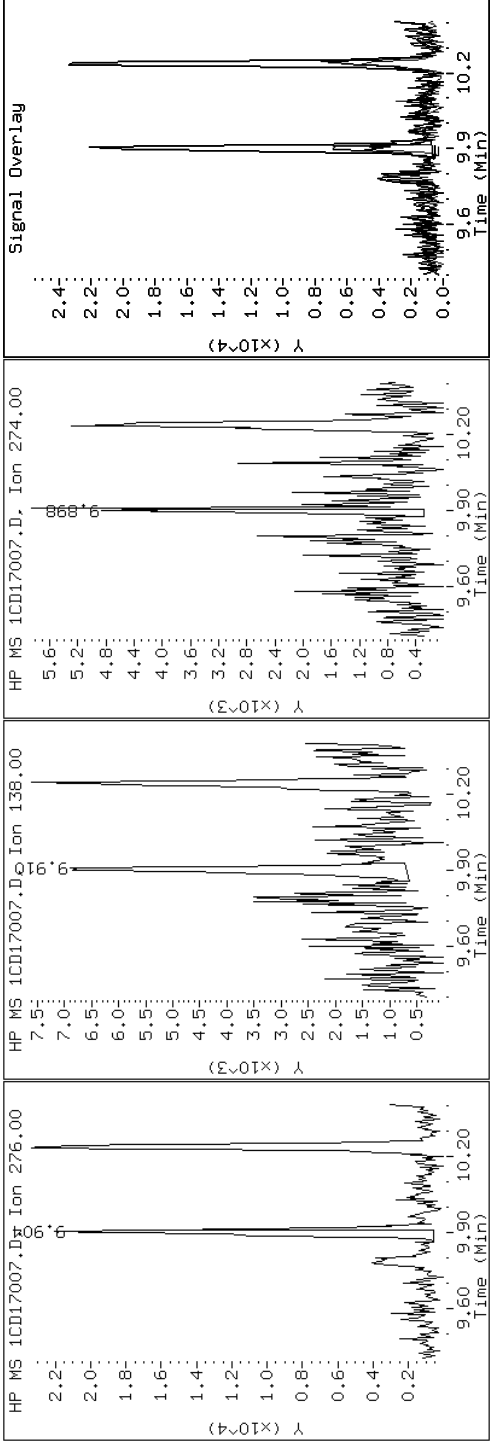
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

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



Data File: 1CDI17007.D

Date: 17-APR-2013 11:31

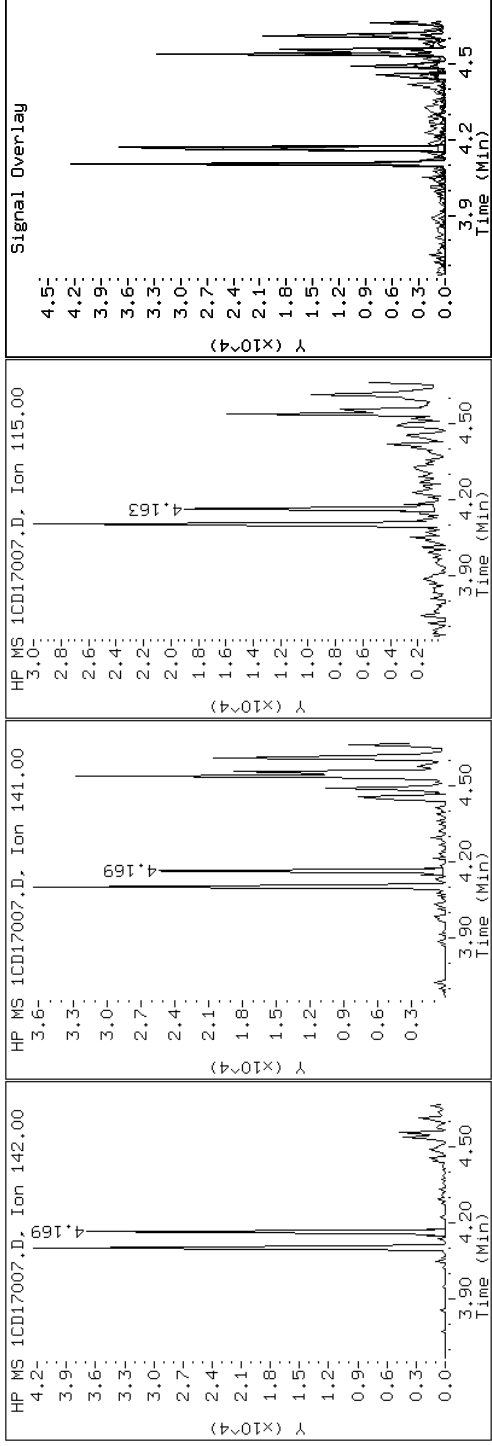
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CDI7007.D

Date: 17-APR-2013 11:31

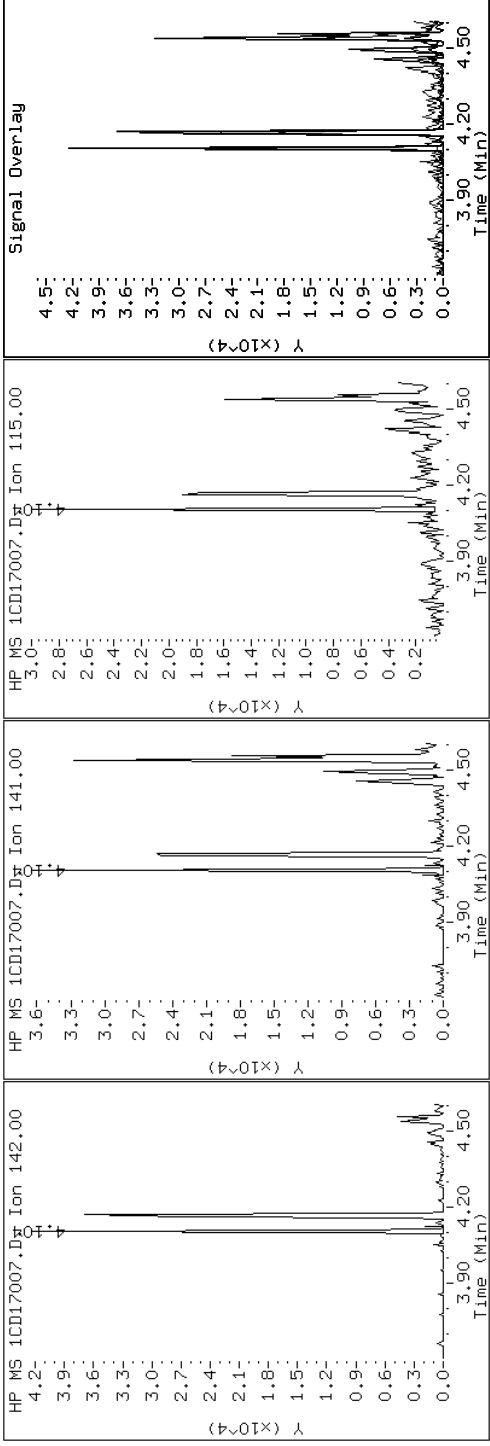
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

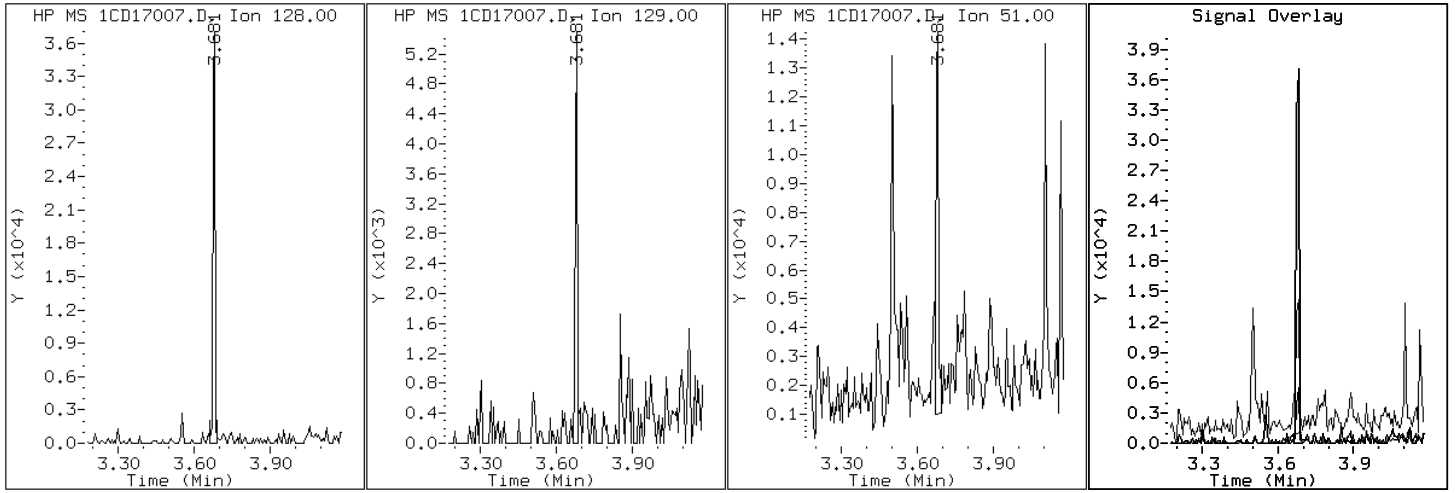
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

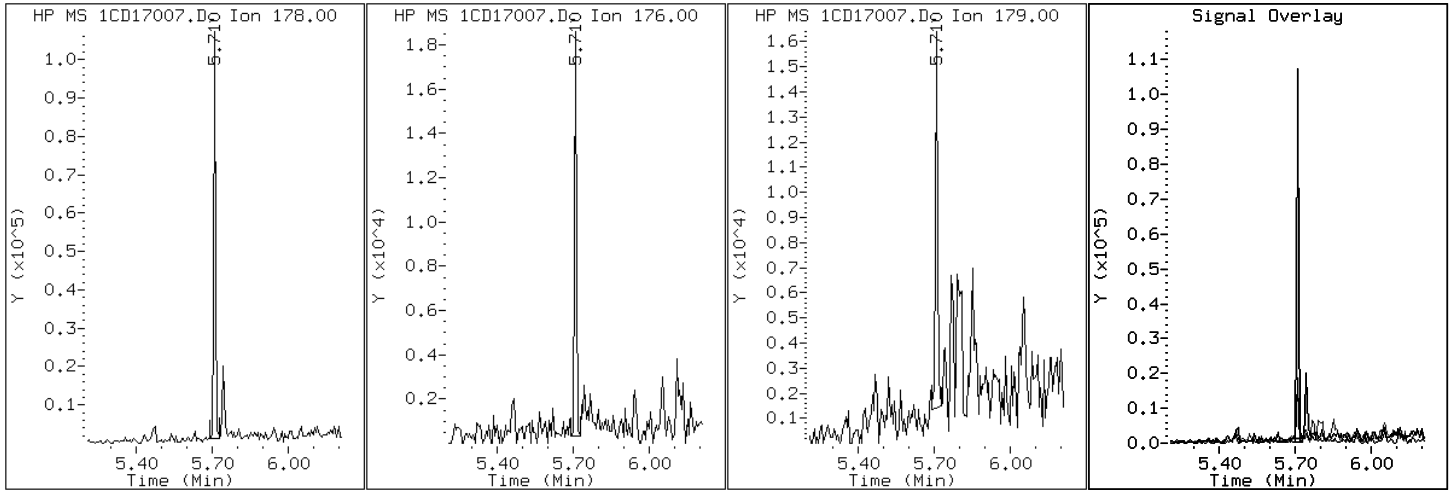
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17007.D

Date: 17-APR-2013 11:31

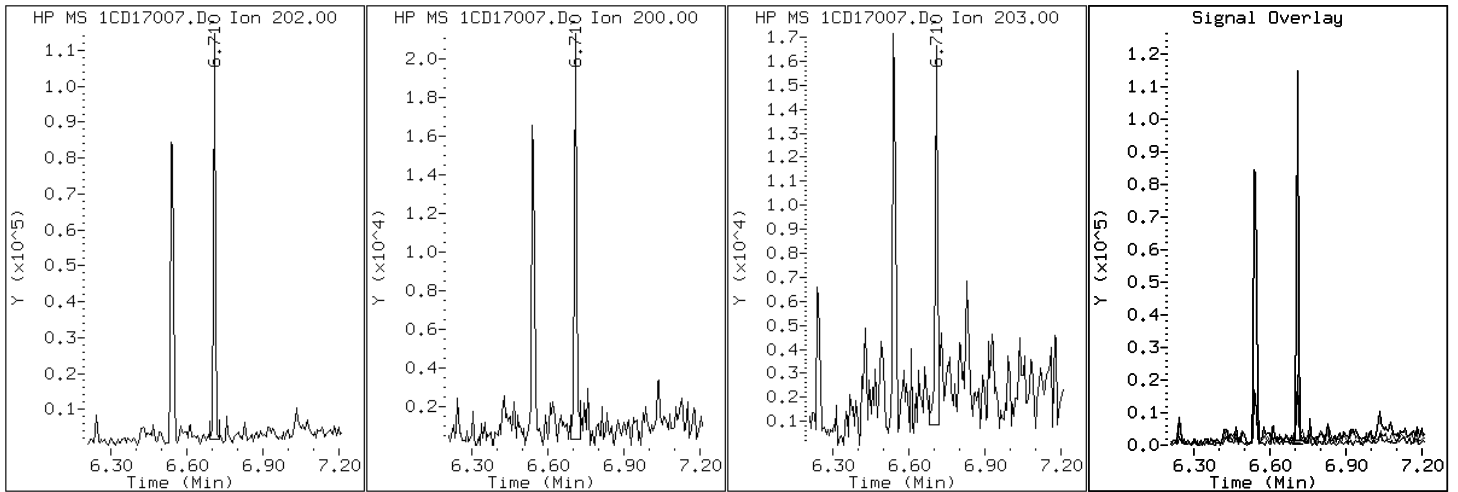
Client ID: CV0877A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-a

Operator: SCC

16 Pyrene

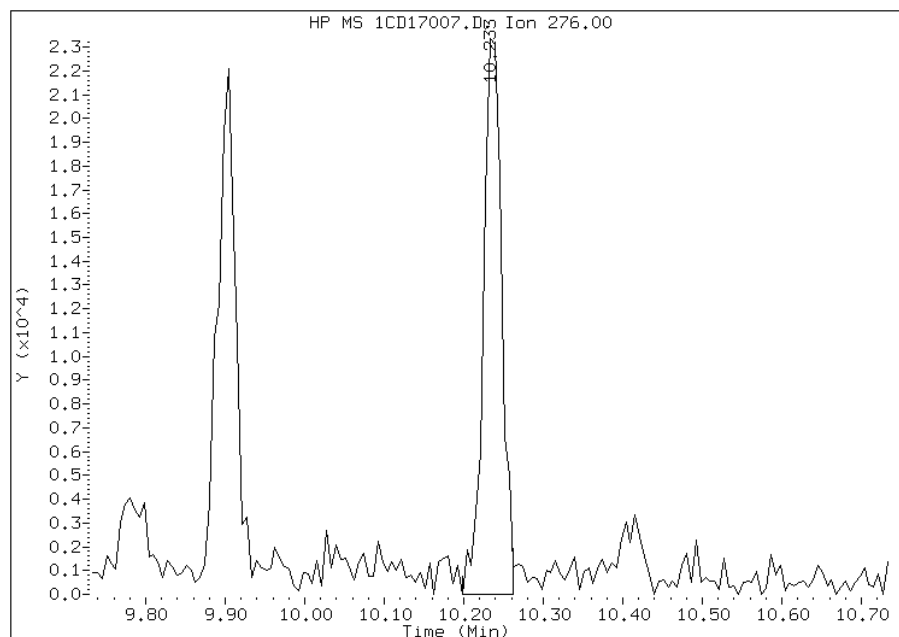


# Manual Integration Report

Data File: 1CD17007.D  
Inj. Date and Time: 17-APR-2013 11:31  
Instrument ID: BSMC5973.i  
Client ID: CV0877A-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/18/2013

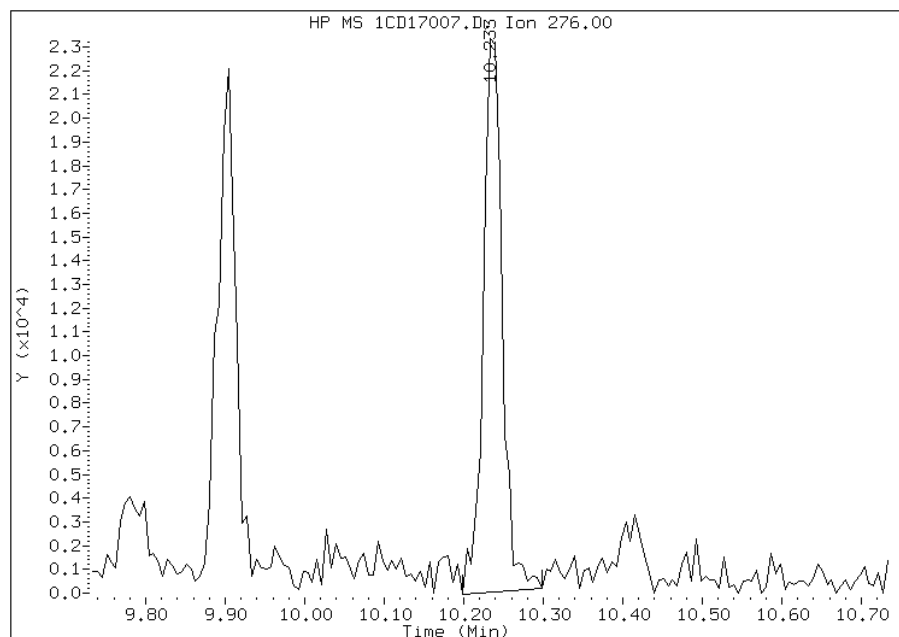
## Processing Integration Results

RT: 10.23  
Response: 37455  
Amount: 3  
Conc: 280



## Manual Integration Results

RT: 10.23  
Response: 38584  
Amount: 3  
Conc: 288



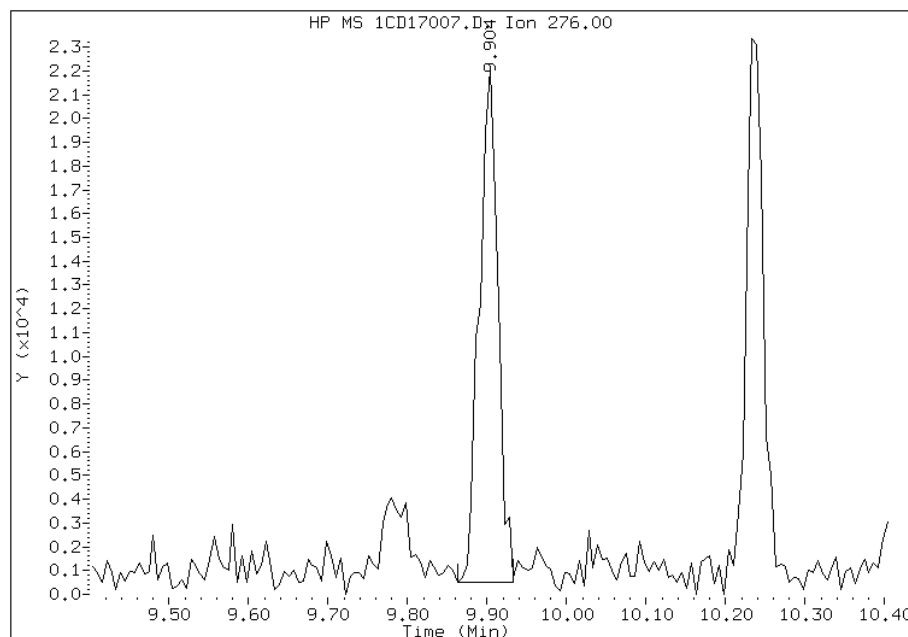
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:44  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17007.D  
Inj. Date and Time: 17-APR-2013 11:31  
Instrument ID: BSMC5973.i  
Client ID: CV0877A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

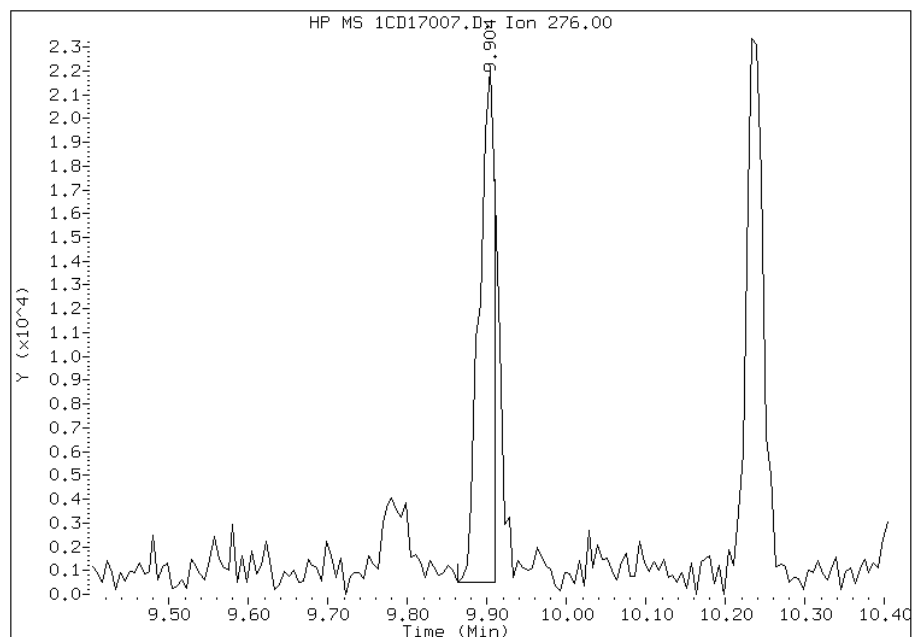
## Processing Integration Results

RT: 9.90  
Response: 34711  
Amount: 4  
Conc: 298



## Manual Integration Results

RT: 9.90  
Response: 29247  
Amount: 3  
Conc: 260



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:44  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1086A-CS Lab Sample ID: 680-89275-5  
 Matrix: Solid Lab File ID: 1CD17010.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 09:50  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.98(g) Date Analyzed: 04/17/2013 12:26  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 28.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	70	J	220	28
120-12-7	Anthracene	130		47	23
56-55-3	Benzo[a]anthracene	420		44	22
50-32-8	Benzo[a]pyrene	280		58	29
205-99-2	Benzo[b]fluoranthene	550		68	34
191-24-2	Benzo[g,h,i]perylene	310		110	24
207-08-9	Benzo[k]fluoranthene	170		44	20
218-01-9	Chrysene	520		50	25
53-70-3	Dibenz(a,h)anthracene	110	U	110	23
206-44-0	Fluoranthene	510		110	22
86-73-7	Fluorene	46	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	400		110	39
90-12-0	1-Methylnaphthalene	380		220	24
91-57-6	2-Methylnaphthalene	610		220	39
91-20-3	Naphthalene	340		220	24
85-01-8	Phenanthrene	640		44	22
129-00-0	Pyrene	490		110	21

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\1C041713.b\1CD17010.D  
 Lab Smp Id: 680-89275-A-5-A Client Smp ID: CV1086A-CS  
 Inj Date : 17-APR-2013 12:26  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-5-a  
 Misc Info : 680-89275-A-5-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 10  
 Dil Factor: 4.00000  
 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	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	27.957	% 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		3.669	3.663	(1.000)	320656	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	212946	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	389321	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.043)	8375	1.98871	737.1078
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	437353	40.0000	
* 23 Perylene-d12	264		8.786	8.780	(1.000)	436202	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	8024	0.92572	343.1150
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	7951	1.64429	609.4483
4 1-Methylnaphthalene	142		4.169	4.168	(1.136)	5686	1.02697	380.6420
5 Acenaphthylene	152		4.669	4.663	(0.983)	1696	0.18796	69.6657(Q)
9 Fluorene	166		5.092	5.092	(1.072)	863	0.12471	46.2233(Q)
11 Phenanthrene	178		5.710	5.709	(1.002)	19657	1.72582	639.6686
12 Anthracene	178		5.745	5.745	(1.008)	3928	0.34754	128.8129
13 Carbazole	167		5.857	5.851	(1.028)	3312	0.31463	116.6180

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====		=====	=====	=====	=====	=====	=====
15 Fluoranthene	202		6.545	6.545	(1.149)	17535	1.38840	514.6044
16 Pyrene	202		6.710	6.709	(0.880)	16285	1.30885	485.1194
17 Benzo(a)anthracene	228		7.621	7.621	(0.999)	14145	1.14372	423.9170
19 Chrysene	228		7.651	7.651	(1.003)	17098	1.39752	517.9852
20 Benzo(b)fluoranthene	252		8.451	8.450	(0.962)	16367	1.48557	550.6190
21 Benzo(k)fluoranthene	252		8.474	8.468	(0.965)	5816	0.46652	172.9144(Q)
22 Benzo(a)pyrene	252		8.733	8.733	(0.994)	8670	0.76130	282.1714
24 Indeno(1,2,3-cd)pyrene	276		9.904	9.903	(1.127)	4963	1.07806	399.5801(M)
26 Benzo(g,h,i)perylene	276		10.233	10.233	(1.165)	9027	0.84566	313.4417(M)

QC Flag Legend

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

Data File: 1CD17010.D

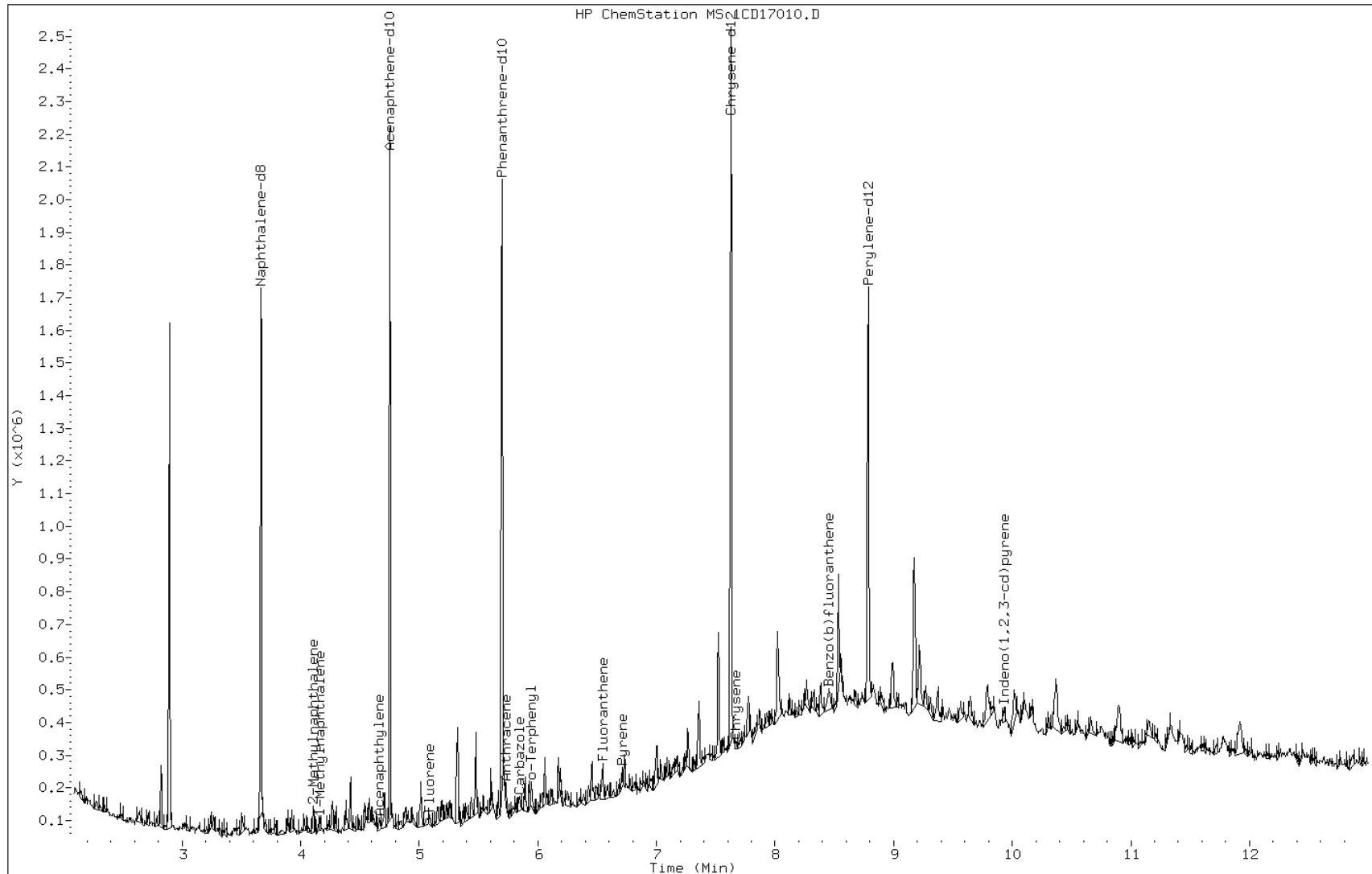
Date: 17-APR-2013 12:26

Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC



Data File: 1CDI7010.D

Date: 17-APR-2013 12:26

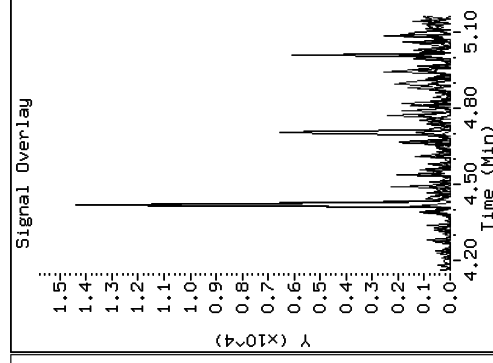
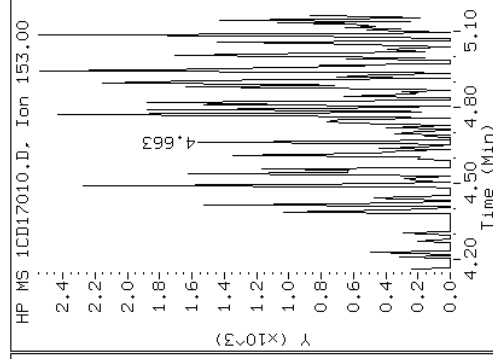
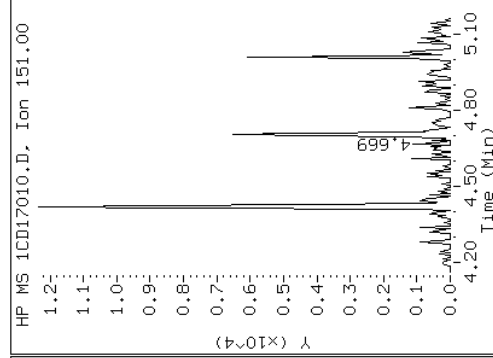
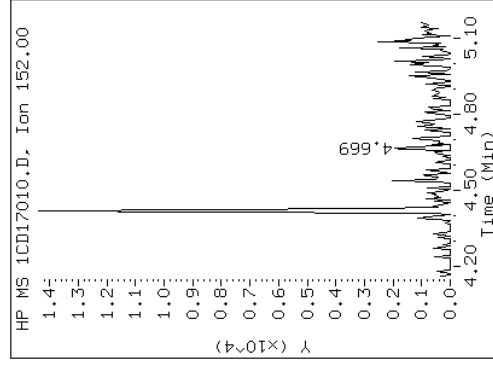
Client ID: CVI086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

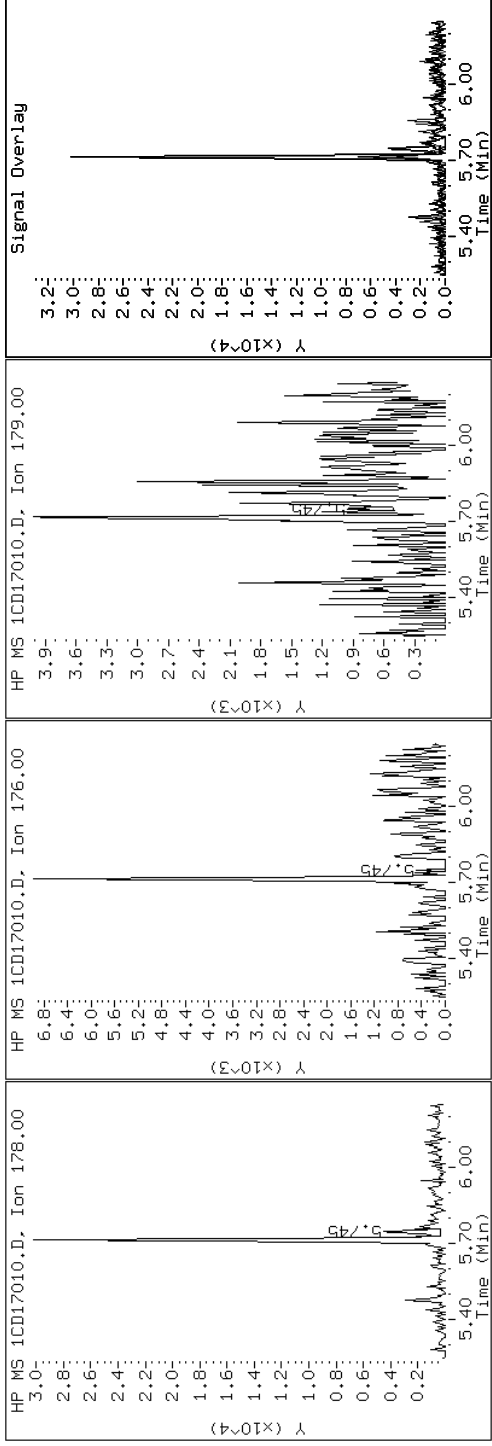
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

12 Anthracene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

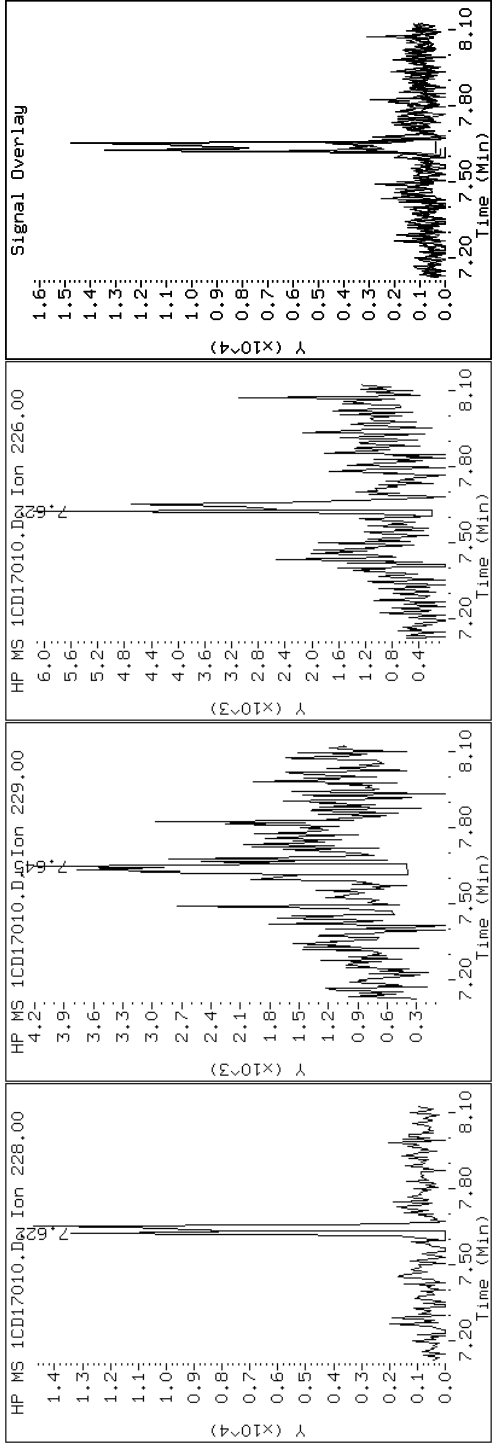
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

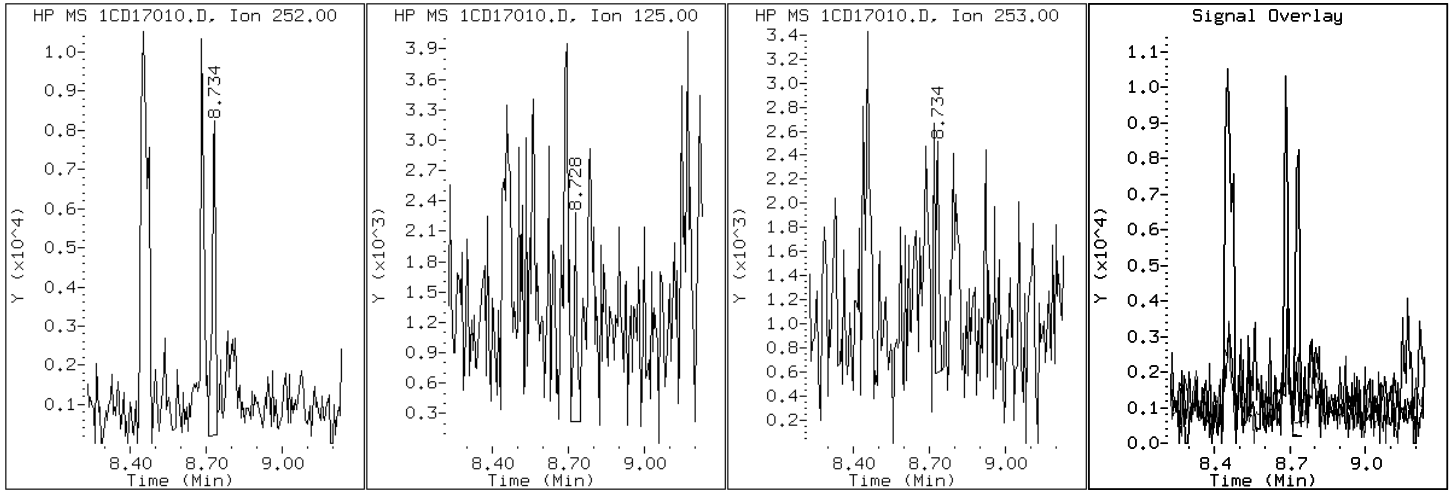
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD17010.D

Date: 17-APR-2013 12:26

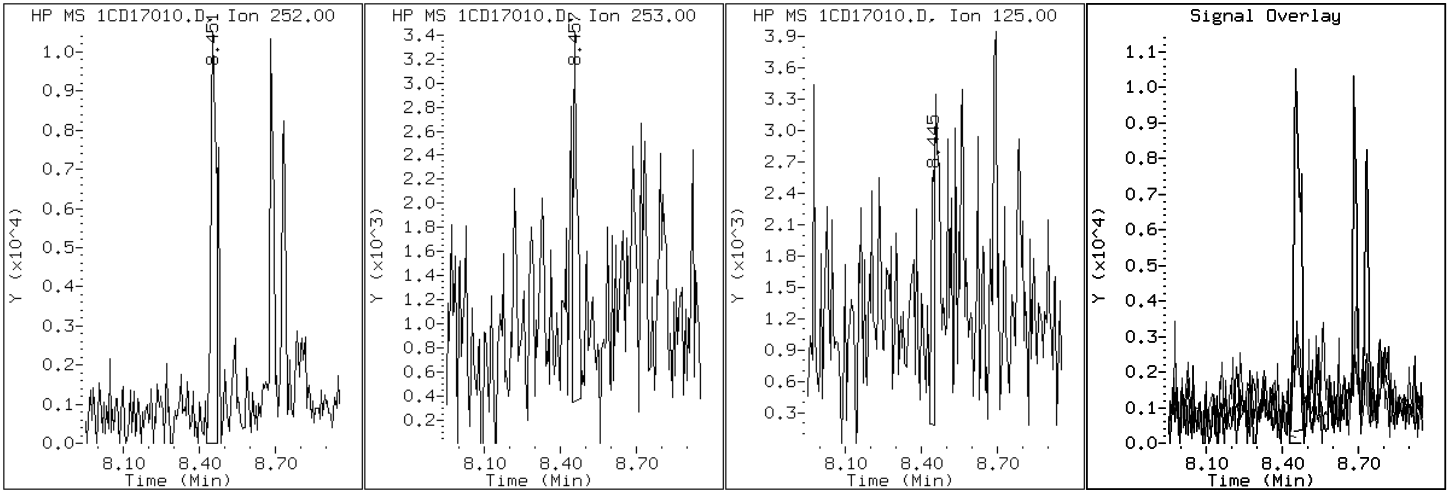
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

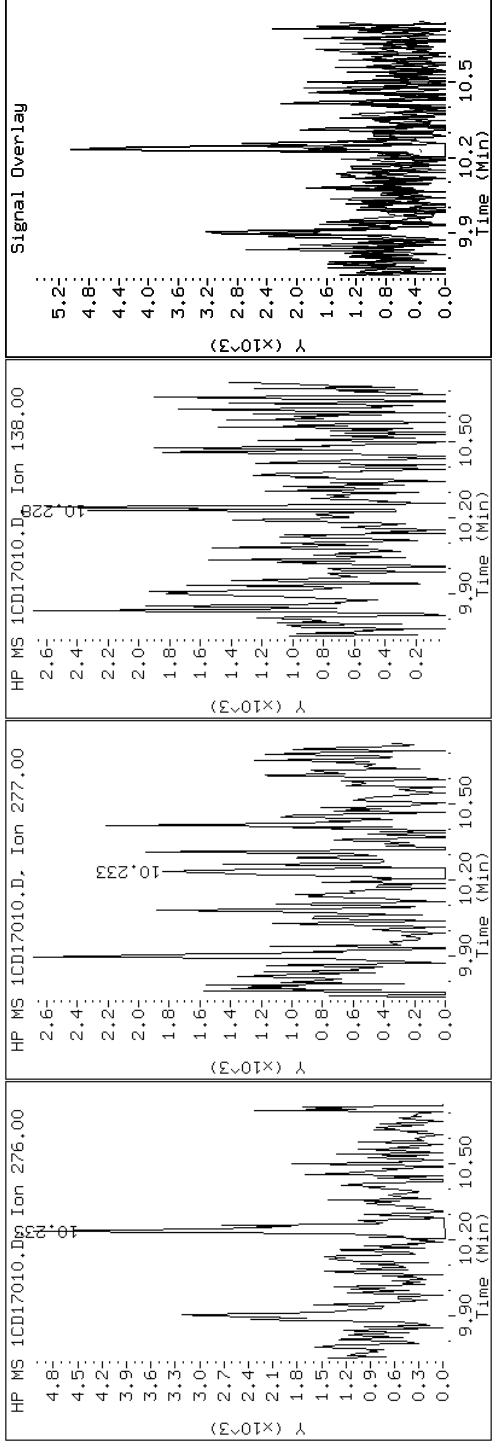
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

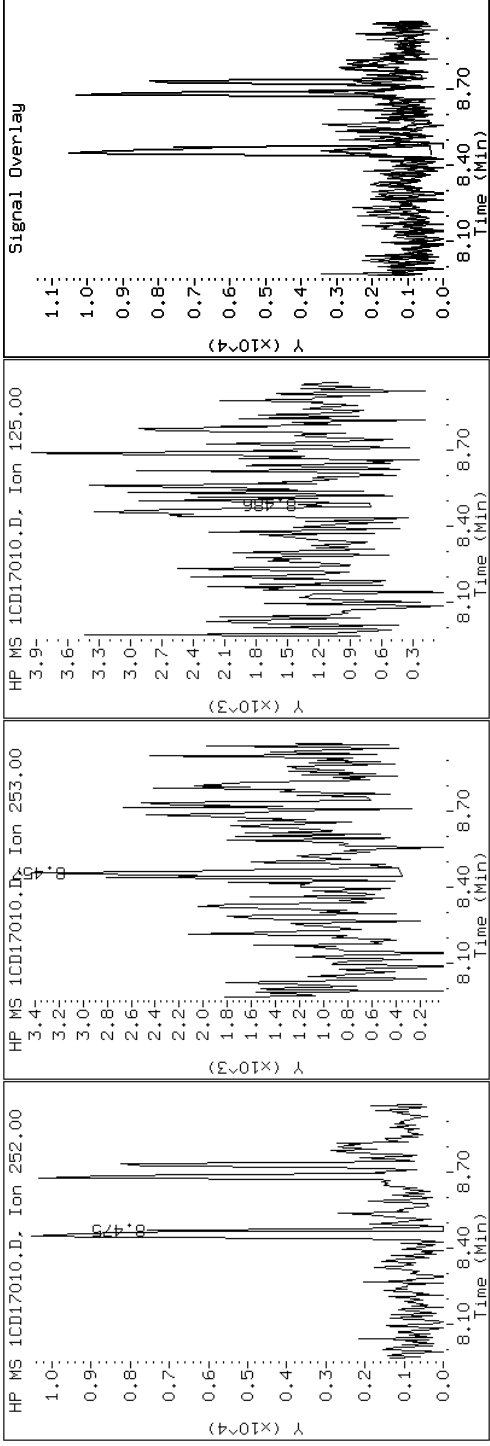
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

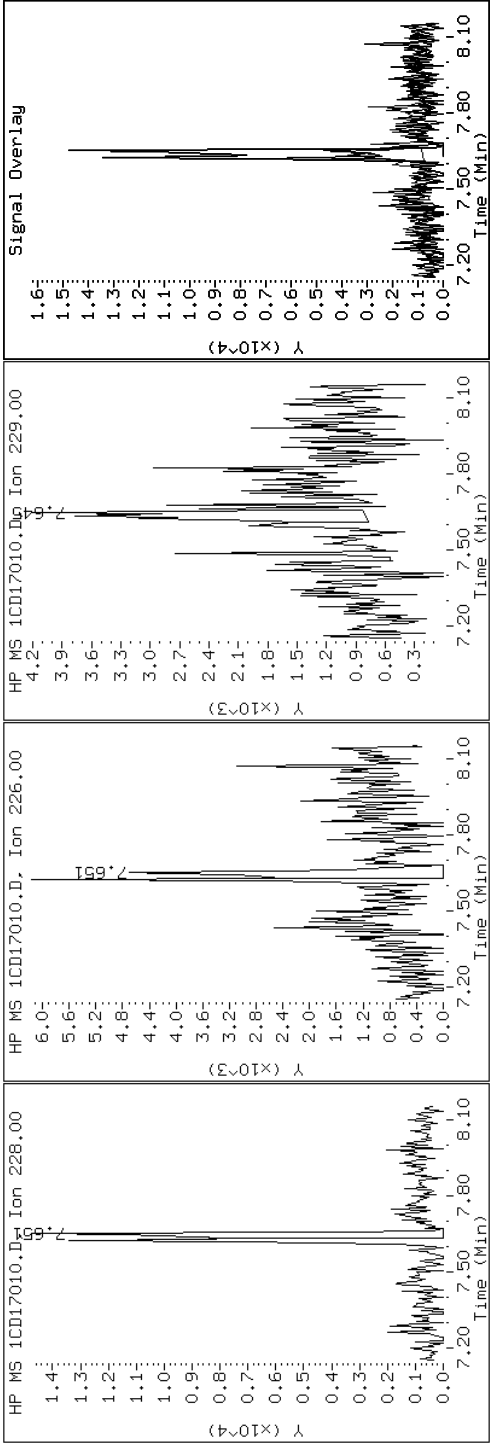
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

19 Chrysene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

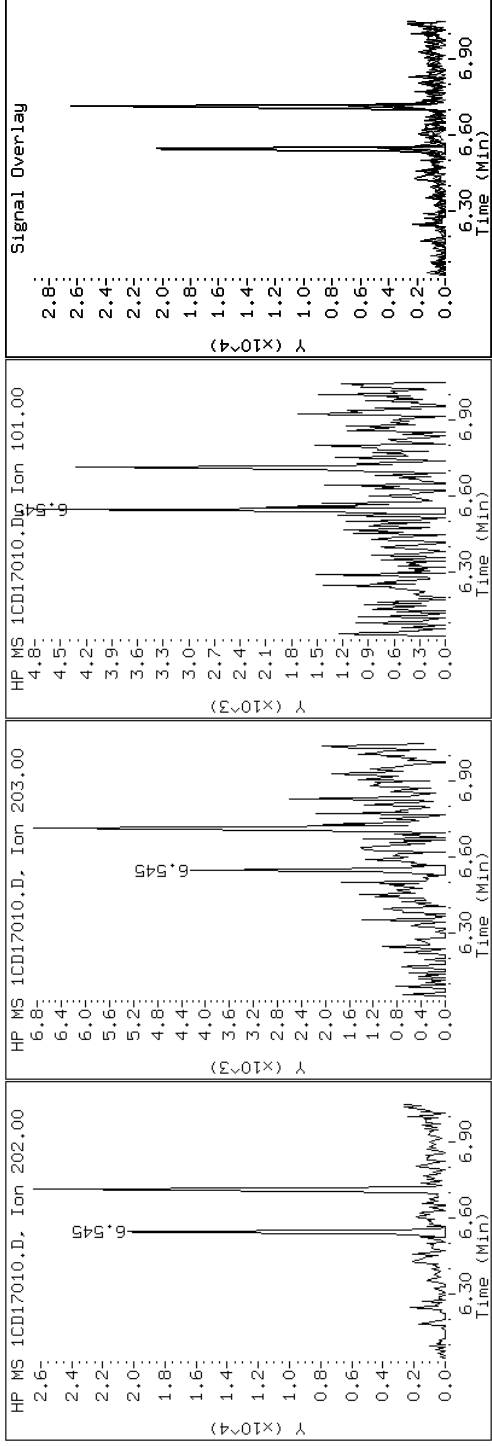
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1CDI7010.D

Date: 17-APR-2013 12:26

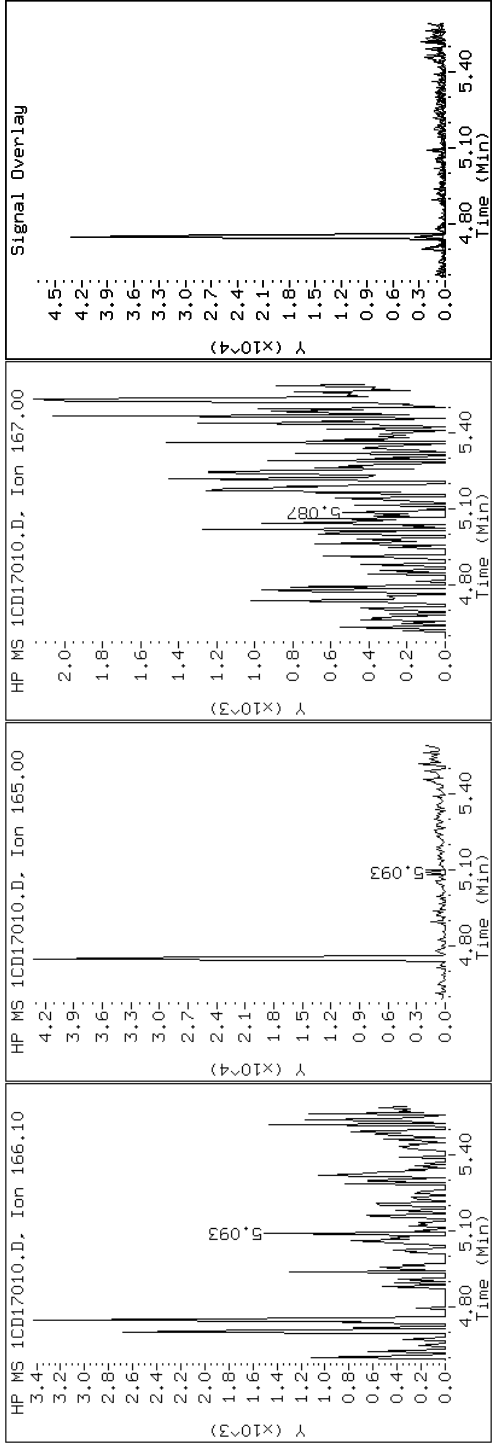
Client ID: CVI086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

9 Fluorene



Data File: 1CDI7010.D

Date: 17-APR-2013 12:26

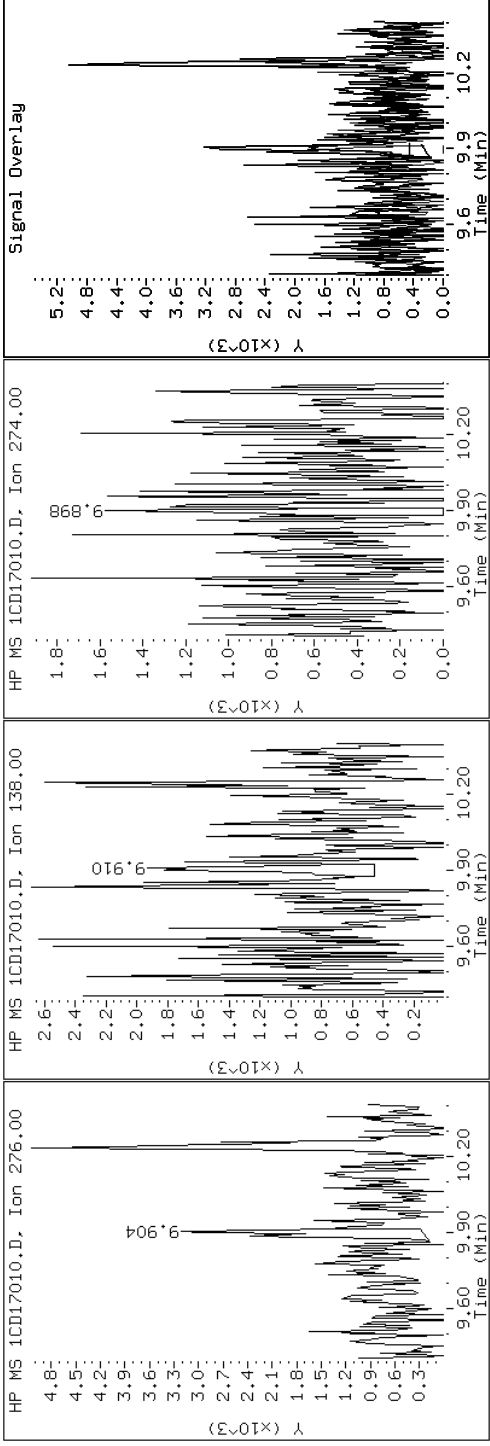
Client ID: CVI086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

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



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

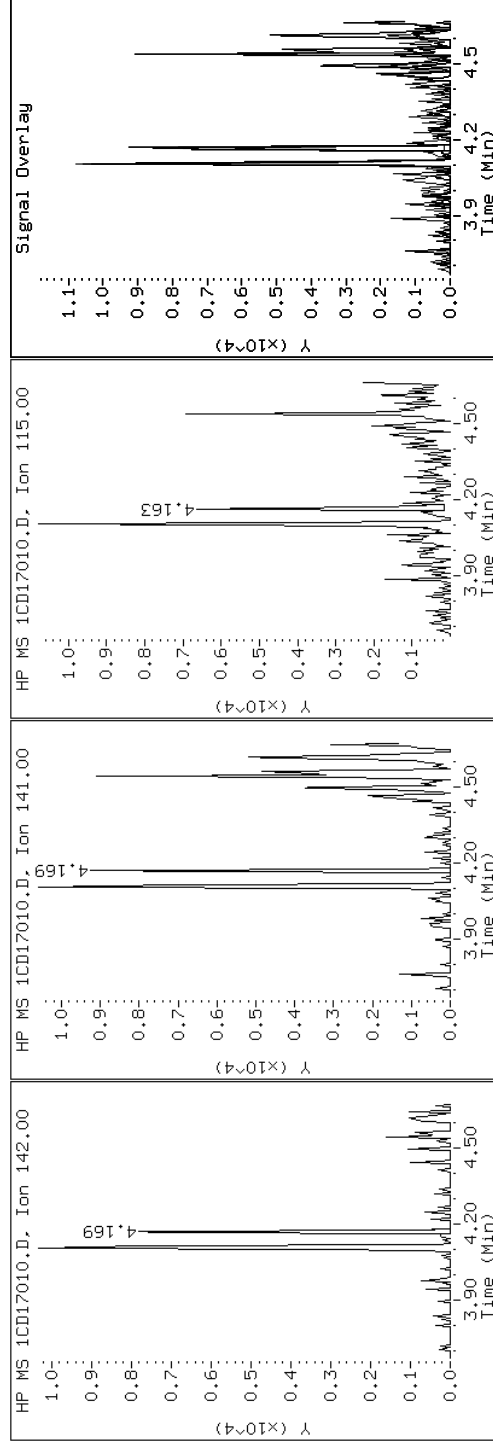
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

#### 4 1-Methylnaphthalene





Data File: 1CD17010.D

Date: 17-APR-2013 12:26

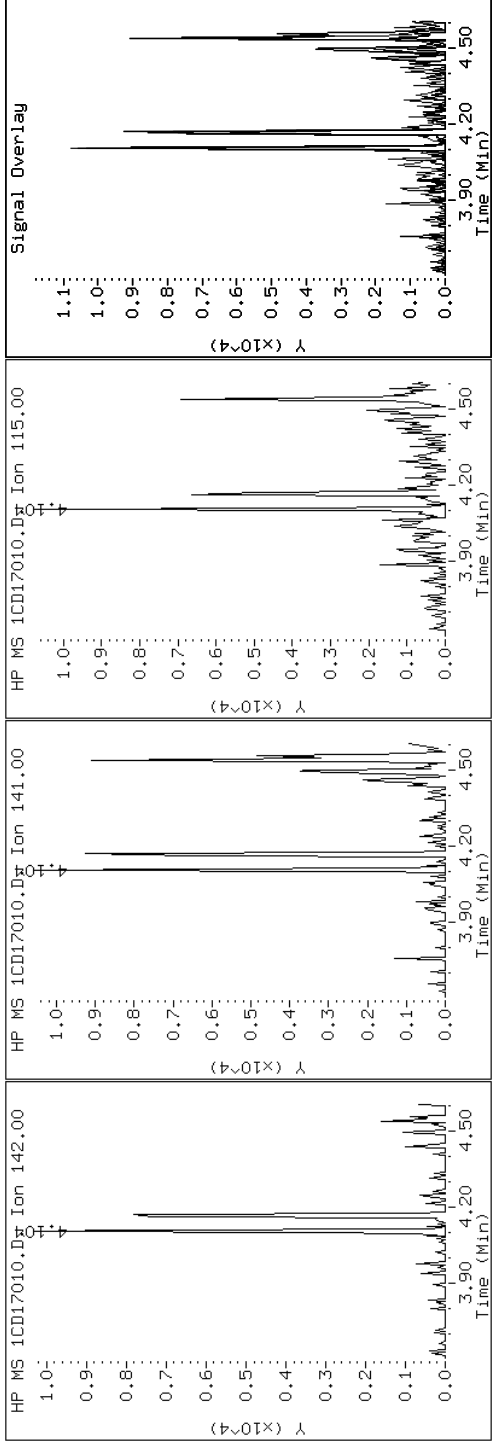
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CDI7010.D

Date: 17-APR-2013 12:26

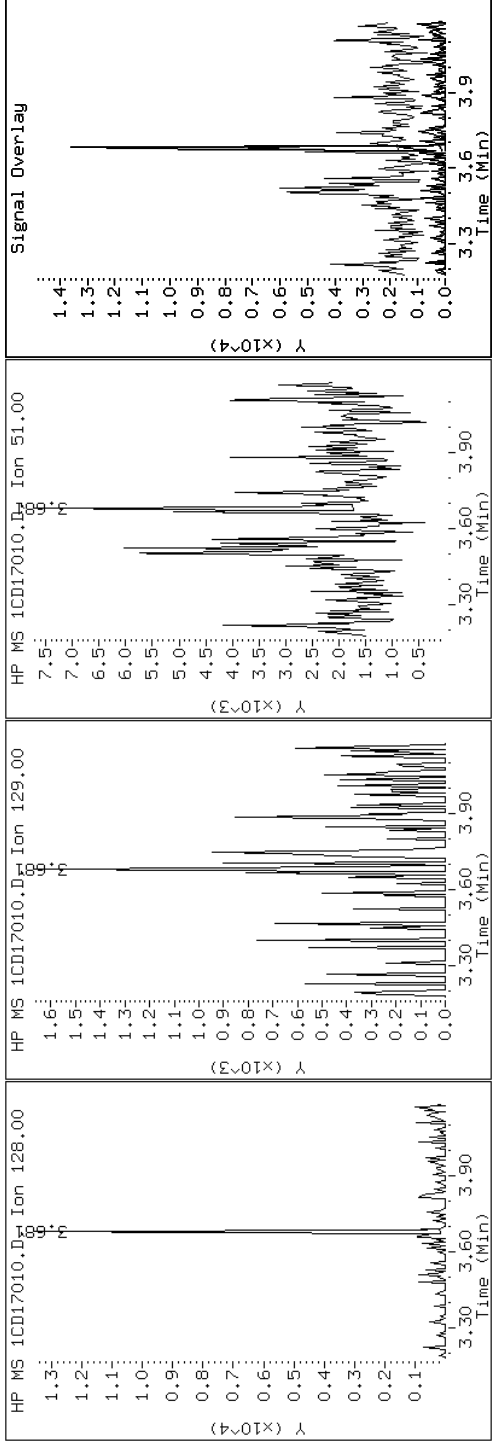
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

### 2 Naphthalene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

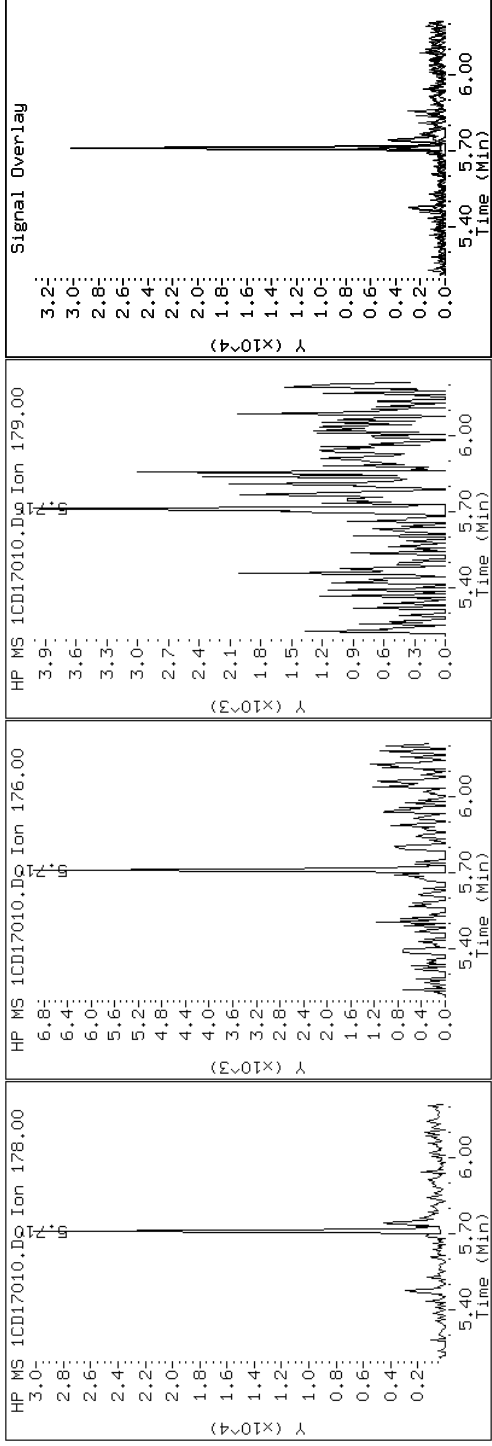
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17010.D

Date: 17-APR-2013 12:26

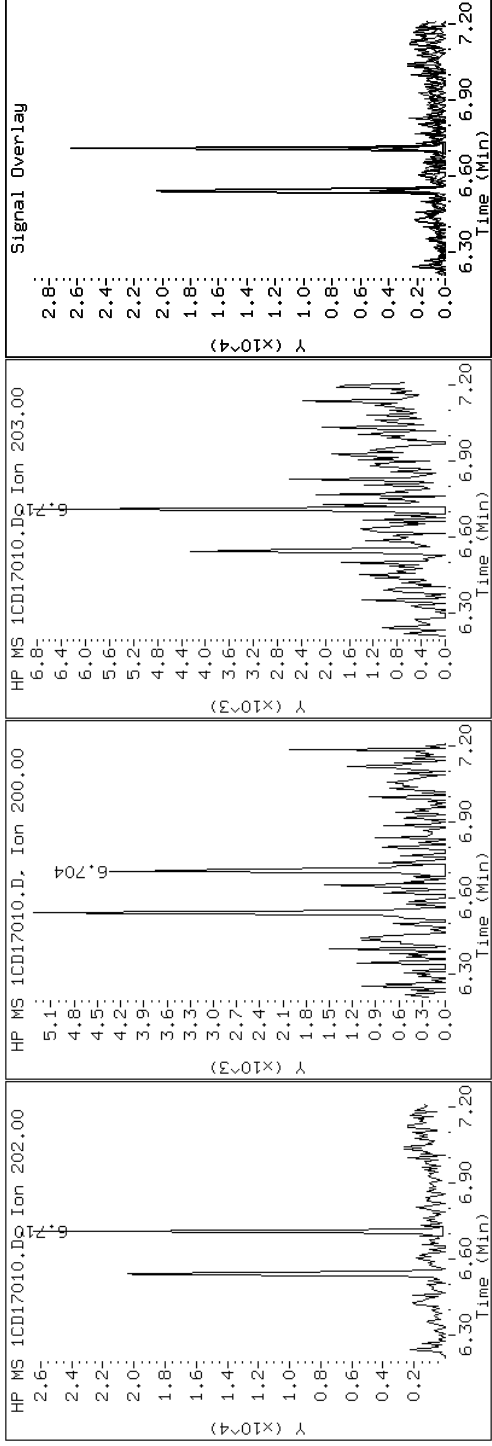
Client ID: CV1086A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-5-a

Operator: SCC

16 Pyrene

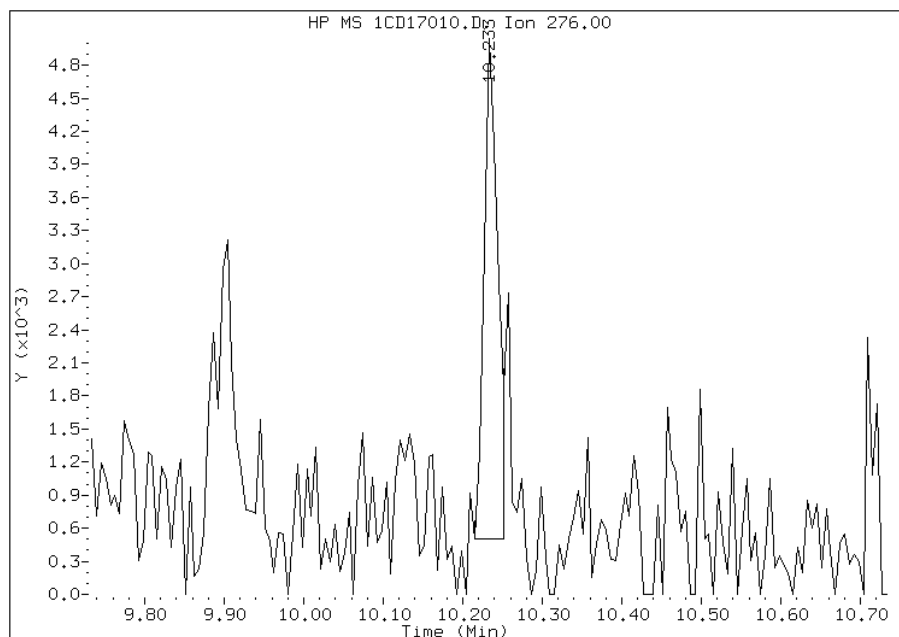


# Manual Integration Report

Data File: 1CD17010.D  
Inj. Date and Time: 17-APR-2013 12:26  
Instrument ID: BSMC5973.i  
Client ID: CV1086A-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/18/2013

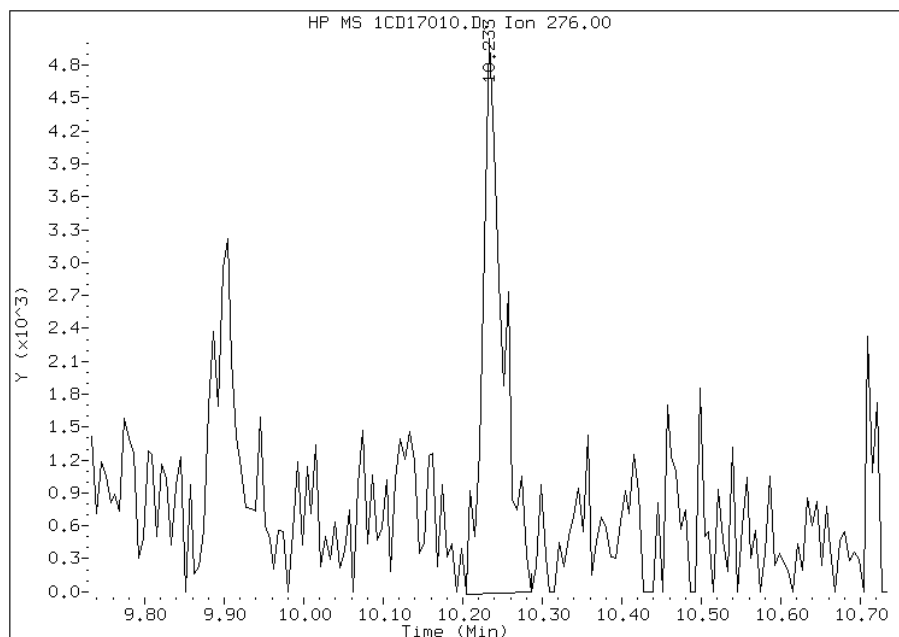
## Processing Integration Results

RT: 10.23  
Response: 5373  
Amount: 1  
Conc: 187



## Manual Integration Results

RT: 10.23  
Response: 9027  
Amount: 1  
Conc: 313



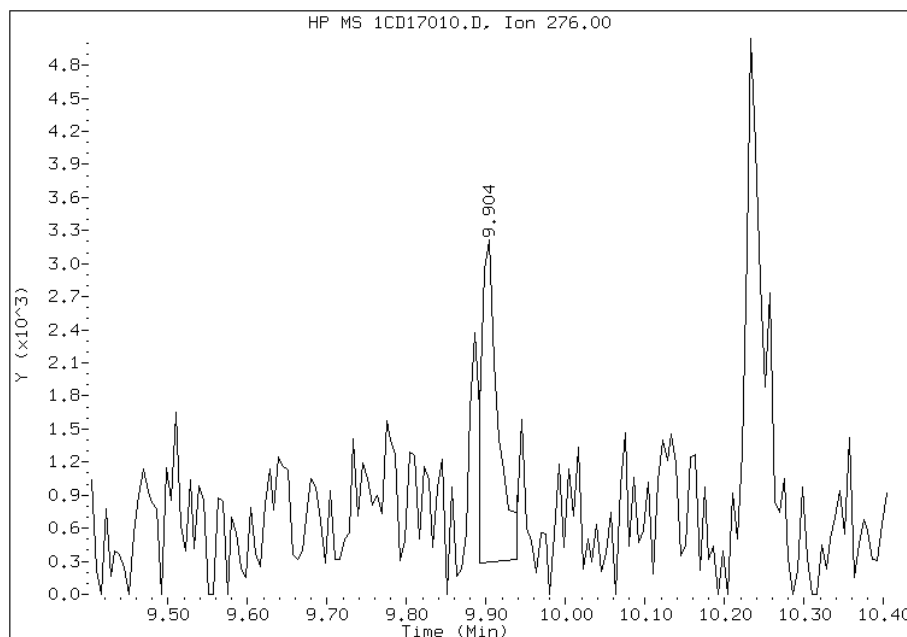
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:47  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17010.D  
Inj. Date and Time: 17-APR-2013 12:26  
Instrument ID: BSMC5973.i  
Client ID: CV1086A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

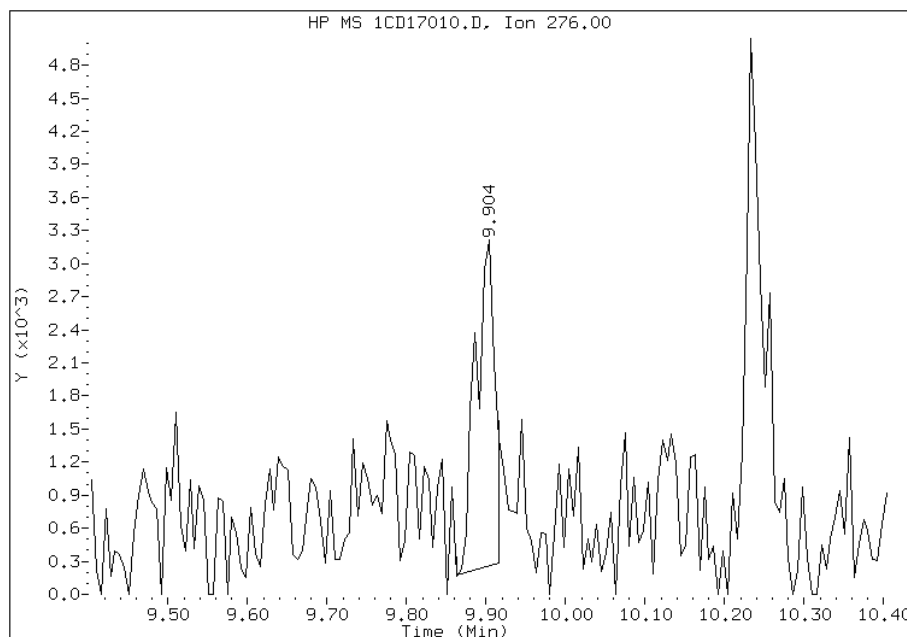
## Processing Integration Results

RT: 9.90  
Response: 4259  
Amount: 1  
Conc: 377



## Manual Integration Results

RT: 9.90  
Response: 4963  
Amount: 1  
Conc: 400



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:47  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1086B-GS Lab Sample ID: 680-89275-6  
 Matrix: Solid Lab File ID: 1CD17011.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 10:00  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 1499(g) Date Analyzed: 04/17/2013 12:44  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 24.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	5.3	U	5.3	1.1
208-96-8	Acenaphthylene	0.36	J	2.1	0.27
120-12-7	Anthracene	0.49		0.45	0.22
56-55-3	Benzo[a]anthracene	1.9		0.43	0.21
50-32-8	Benzo[a]pyrene	1.2		0.55	0.28
205-99-2	Benzo[b]fluoranthene	1.8		0.65	0.32
191-24-2	Benzo[g,h,i]perylene	1.4		1.1	0.23
207-08-9	Benzo[k]fluoranthene	1.0		0.43	0.19
218-01-9	Chrysene	1.8		0.48	0.24
53-70-3	Dibenz(a,h)anthracene	1.1	U	1.1	0.22
206-44-0	Fluoranthene	1.9		1.1	0.21
86-73-7	Fluorene	0.24	J	1.1	0.22
193-39-5	Indeno[1,2,3-cd]pyrene	3.2		1.1	0.38
90-12-0	1-Methylnaphthalene	2.0	J	2.1	0.23
91-57-6	2-Methylnaphthalene	3.6		2.1	0.38
91-20-3	Naphthalene	2.3		2.1	0.23
85-01-8	Phenanthrene	2.5		0.43	0.21
129-00-0	Pyrene	2.4		1.1	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17011.D  
 Lab Smp Id: 680-89275-A-6-A Client Smp ID: CV1086B-GS  
 Inj Date : 17-APR-2013 12:44  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-6-a  
 Misc Info : 680-89275-A-6-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 11  
 Dil Factor: 4.00000  
 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	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	100.000	Weight Extracted
M	24.677	% 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		3.668	3.663	(1.000)	365575	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	250106	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	461159	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.043)	6447	1.53388	81.4560	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	488495	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	474761	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	6374	0.64501	34.2528(Q)	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	4871	1.00973	53.6214	
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	3601	0.57047	30.2948	
5 Acenaphthylene	152		4.668	4.663	(0.983)	1065	0.10049	5.3365	
9 Fluorene	166		5.086	5.092	(1.071)	541	0.06656	3.5348(Q)	
11 Phenanthrene	178		5.710	5.709	(1.002)	9407	0.70188	37.2728	
12 Anthracene	178		5.751	5.745	(1.009)	1847	0.13796	7.3263	
15 Fluoranthene	202		6.545	6.545	(1.149)	7995	0.53442	28.3802	



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.709	6.709	(0.880)	9596	0.69050	36.6687
17 Benzo(a)anthracene	228	7.621	7.621	(0.999)	7364	0.53309	28.3097
19 Chrysene	228	7.651	7.651	(1.003)	7046	0.51562	27.3816
20 Benzo(b)fluoranthene	252	8.445	8.450	(0.961)	6091	0.50795	26.9746(H)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	3999	0.29472	15.6510(Q)
22 Benzo(a)pyrene	252	8.733	8.733	(0.994)	4173	0.33666	17.8783
24 Indeno(1,2,3-cd)pyrene	276	9.897	9.903	(1.127)	3283	0.90601	48.1134(QH)
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	4677	0.40256	21.3779

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

Data File: 1CD17011.D

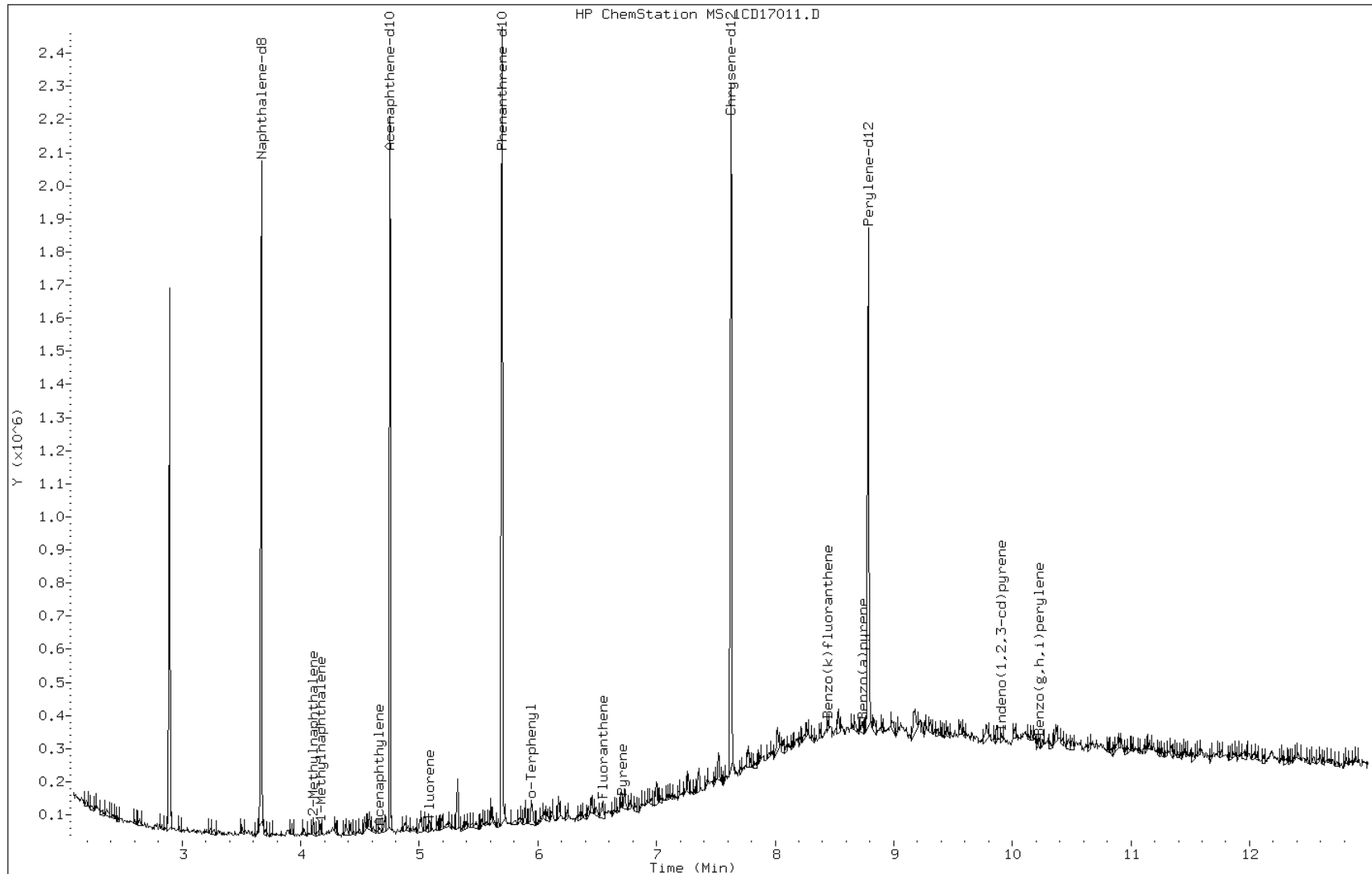
Date: 17-APR-2013 12:44

Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

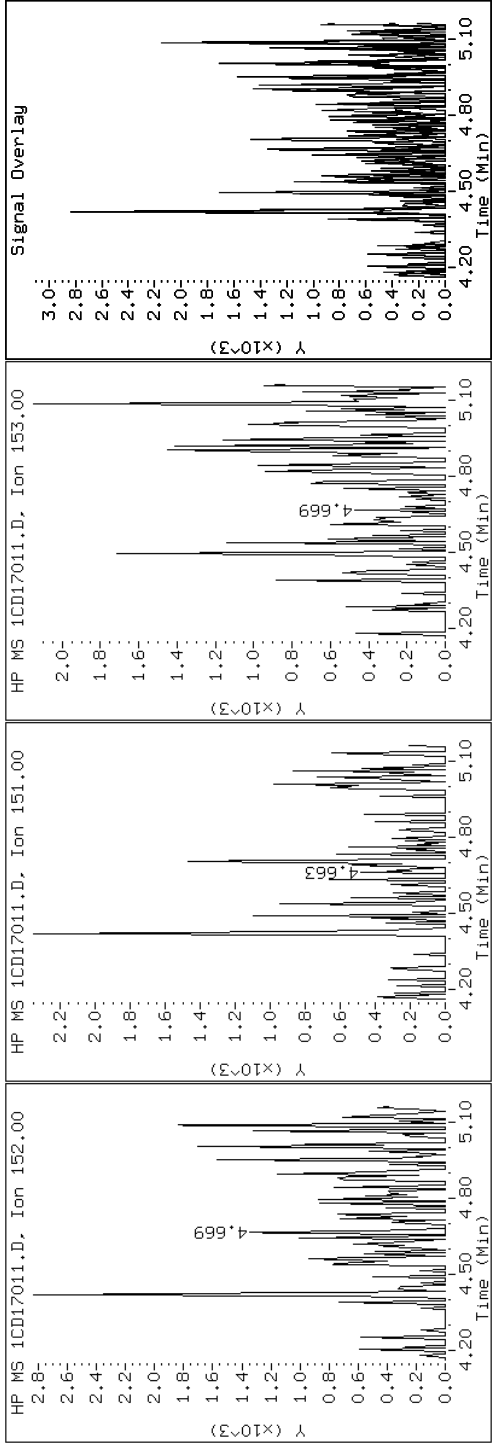
Client ID: CVI086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

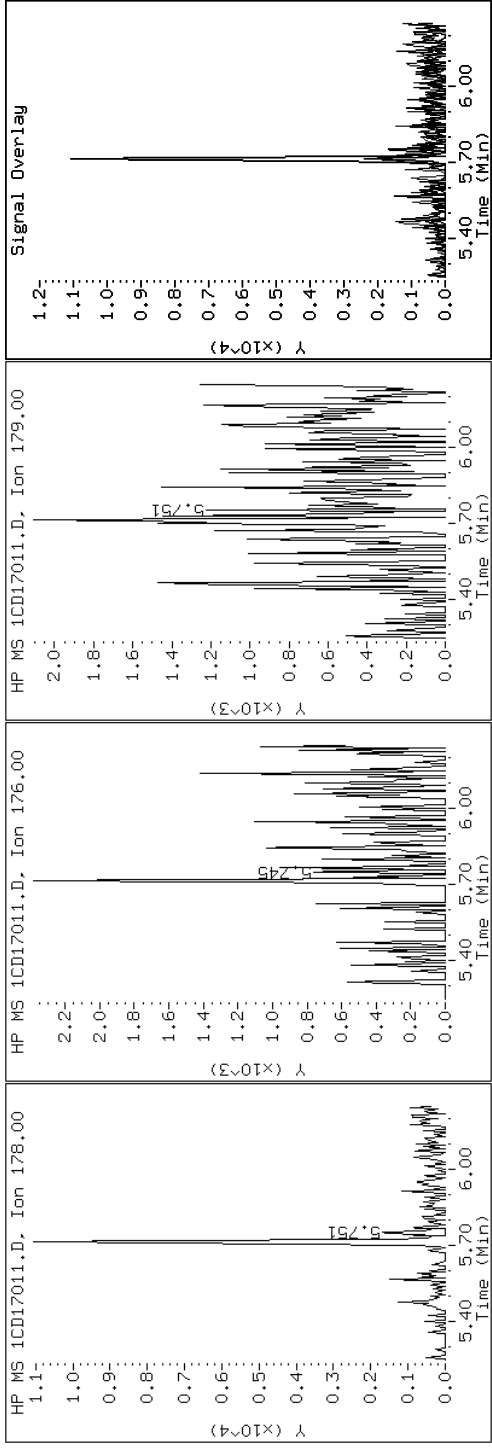
Client ID: CVI086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

12 Anthracene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

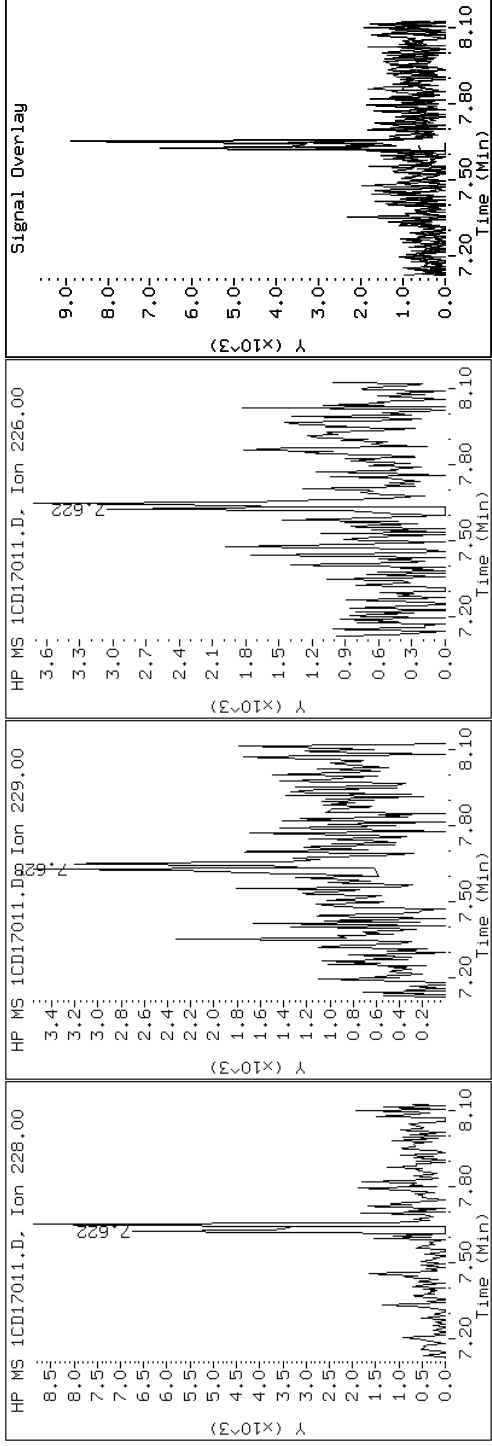
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

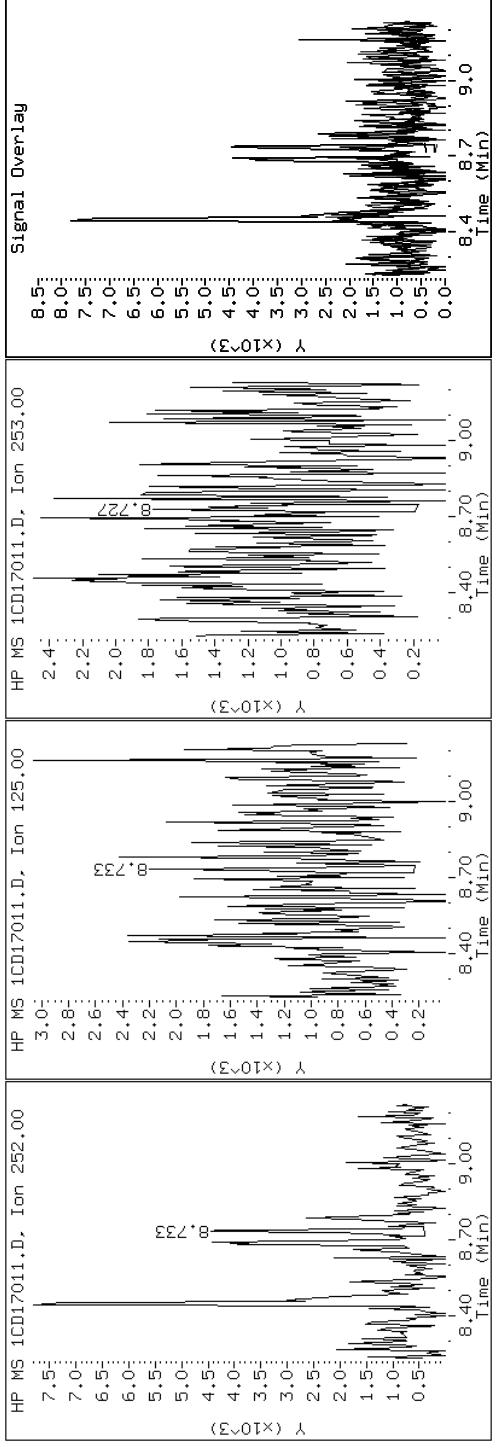
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

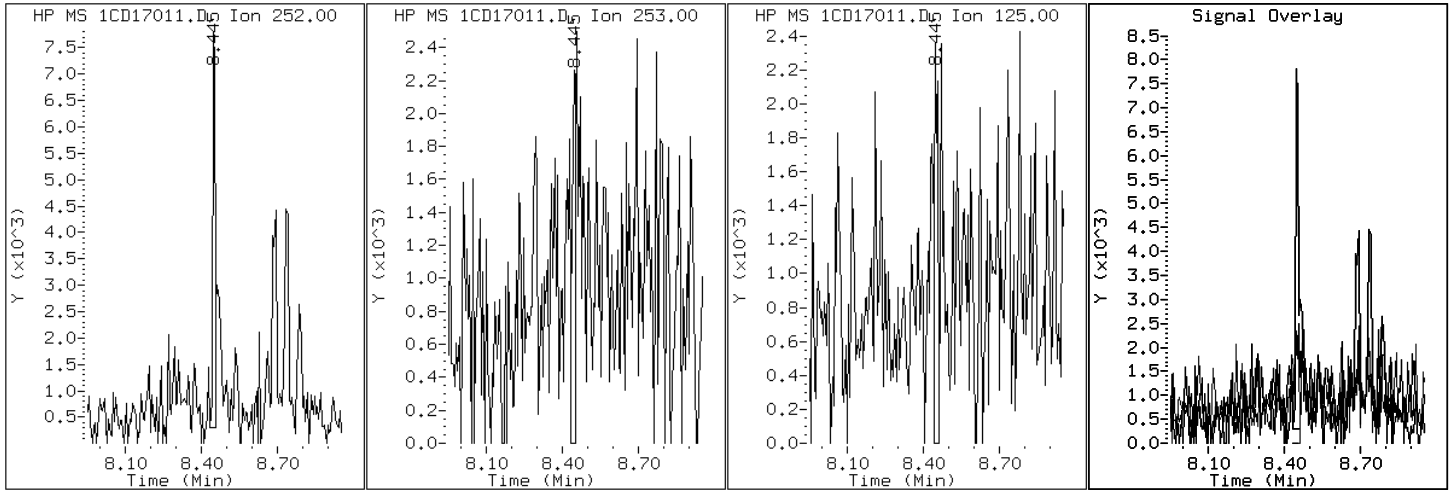
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

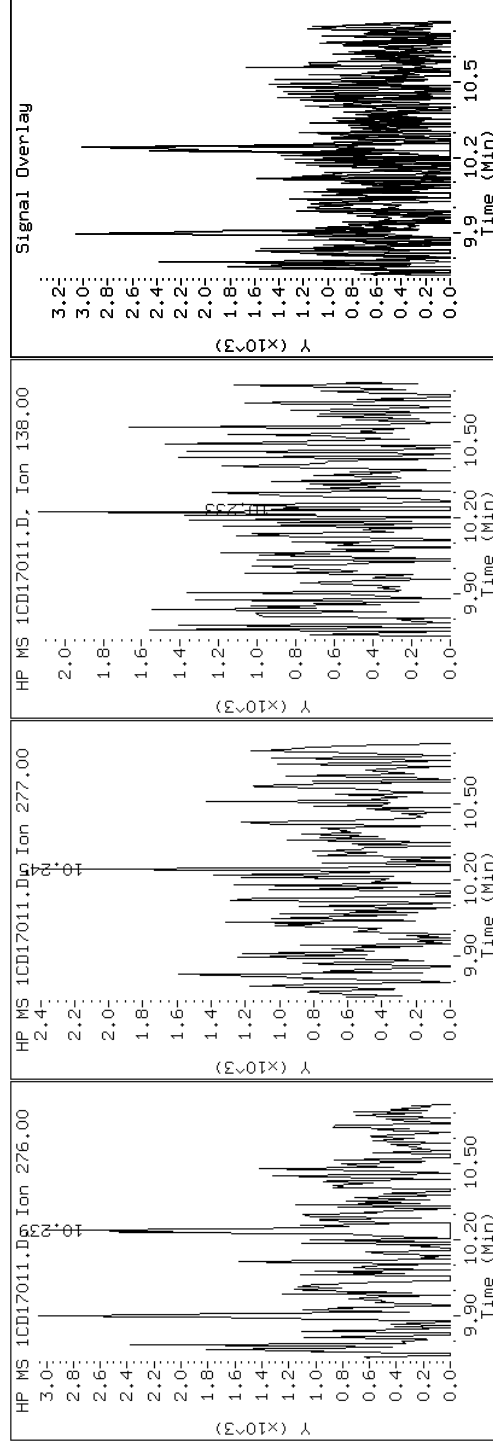
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1CD17011.D

Date: 17-APR-2013 12:44

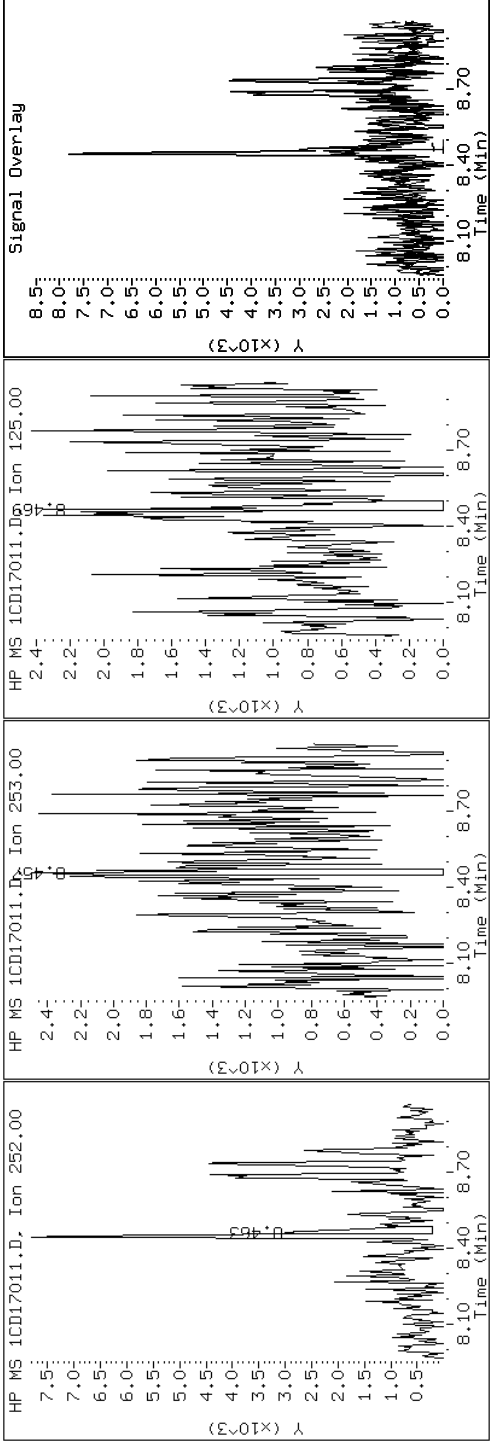
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

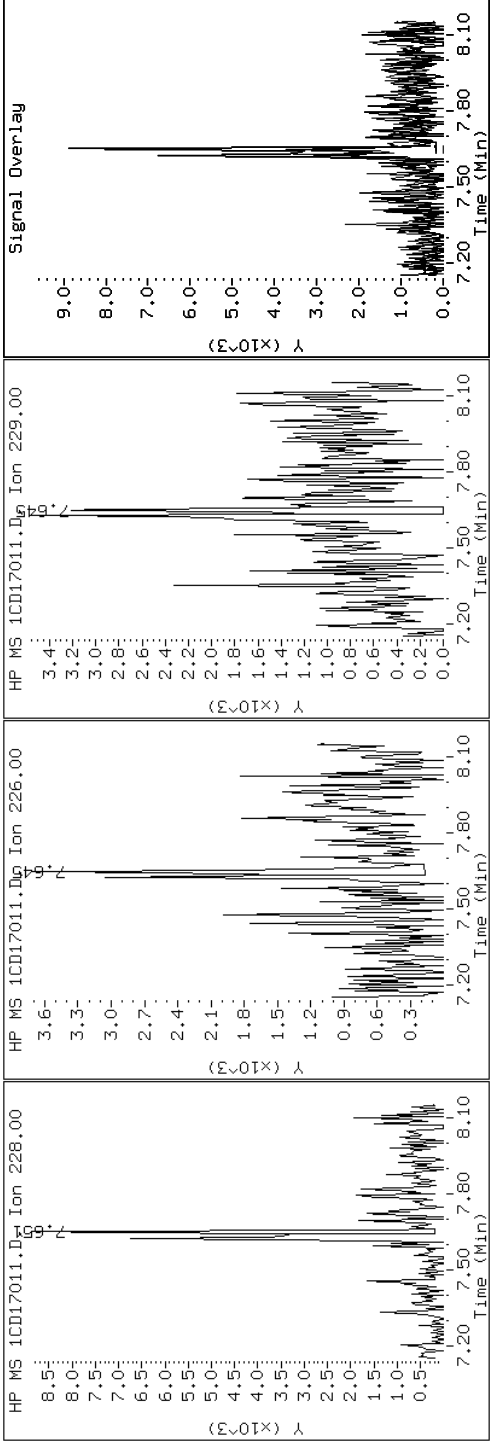
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

19 Chrysene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

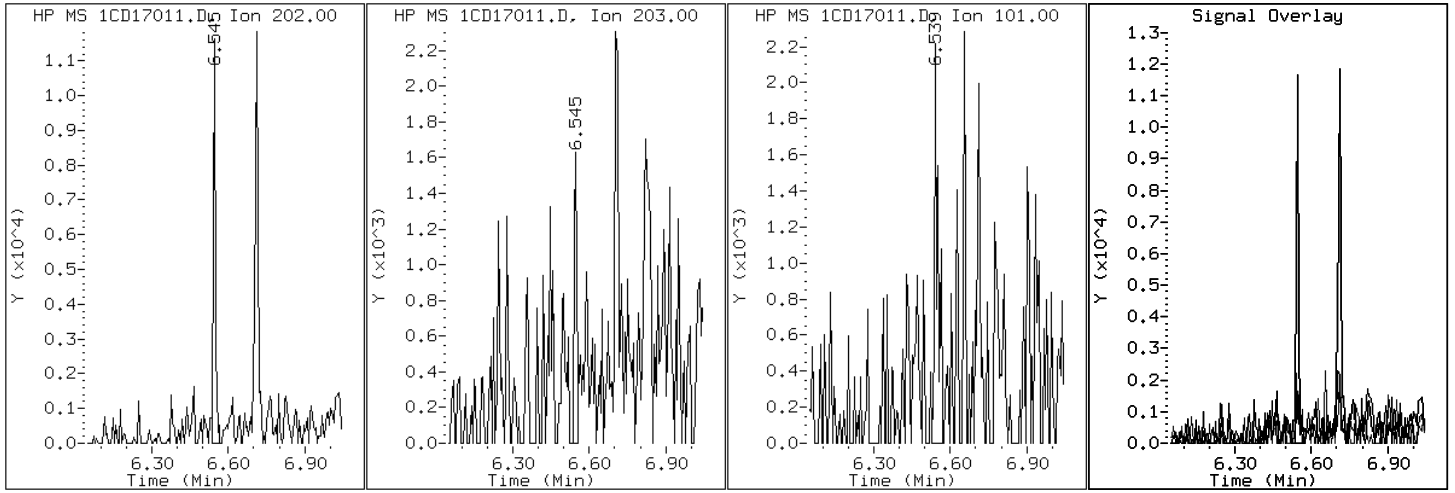
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1CDI7011.D

Date: 17-APR-2013 12:44

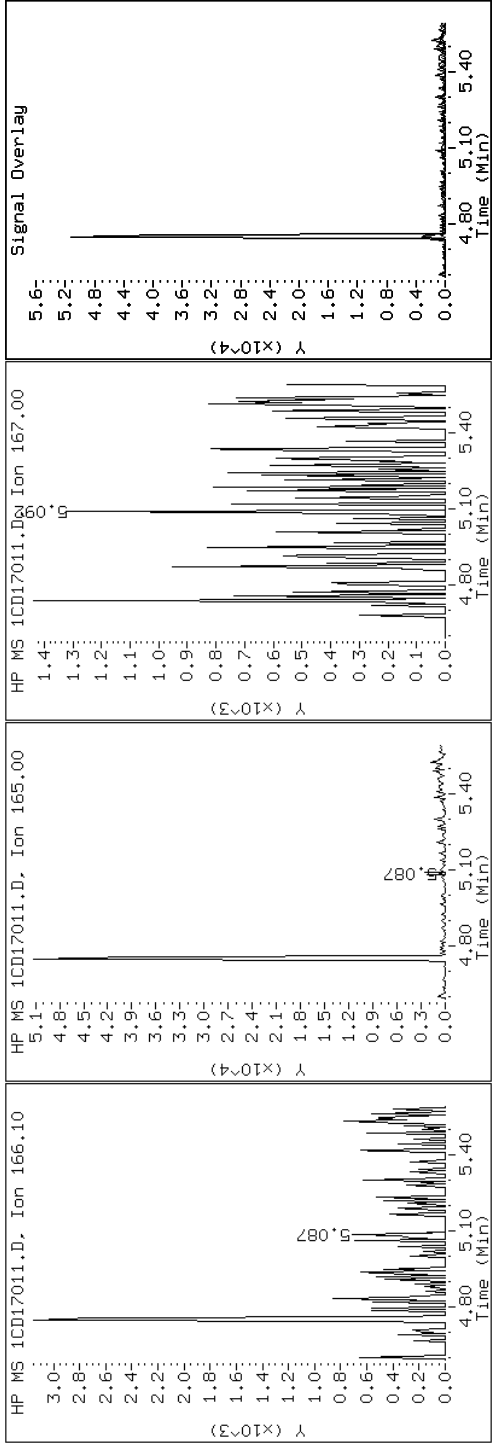
Client ID: CVI086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

9 Fluorene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

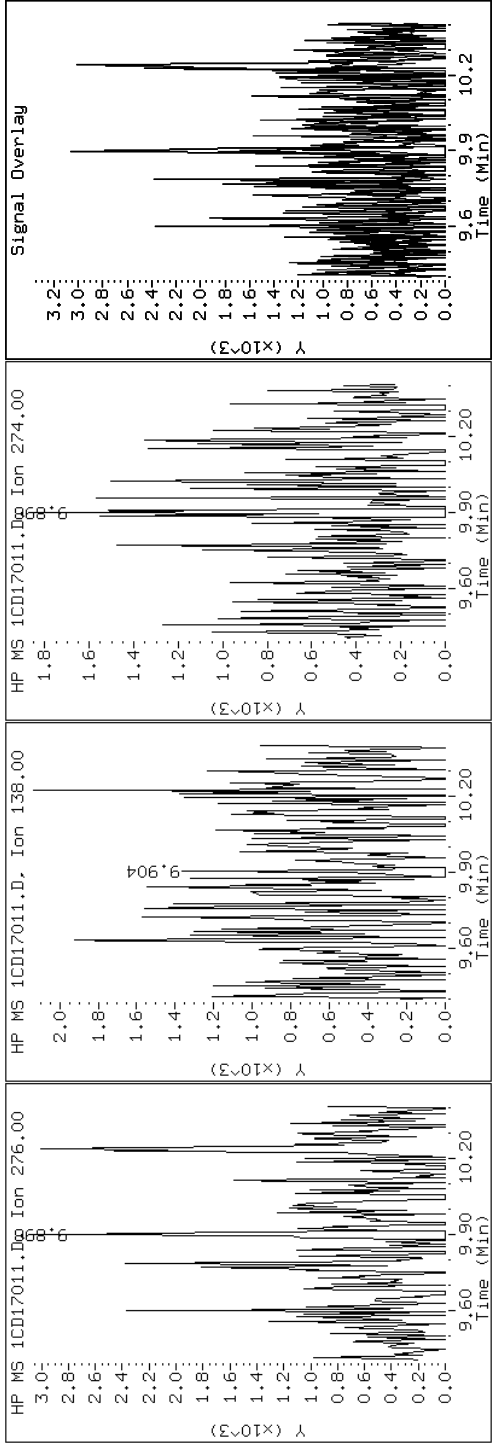
Client ID: CVI086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

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



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

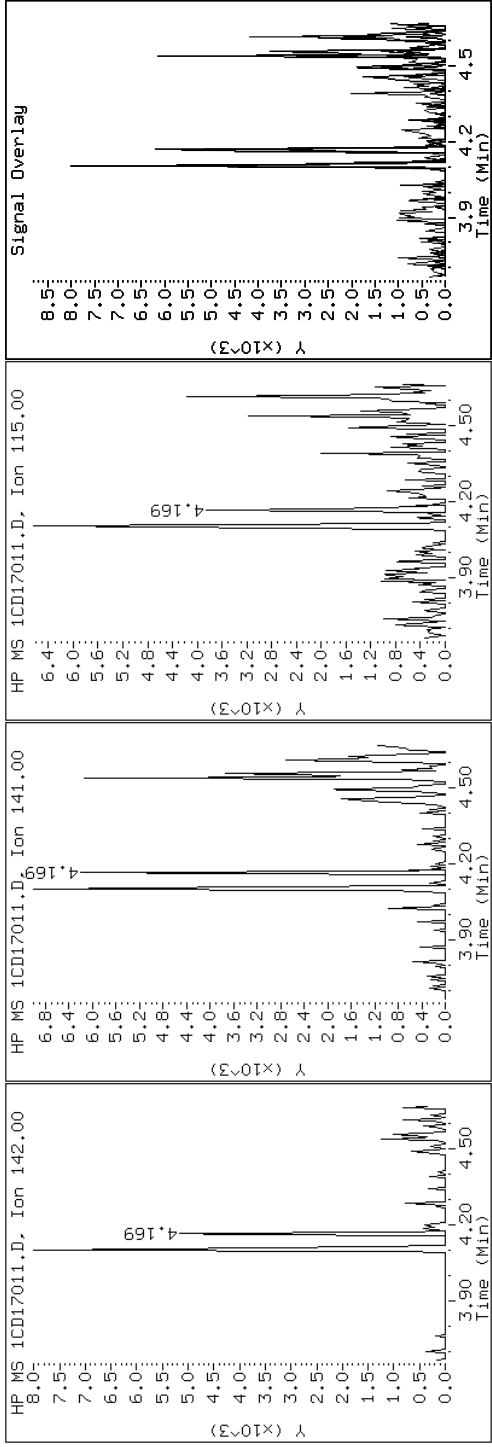
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

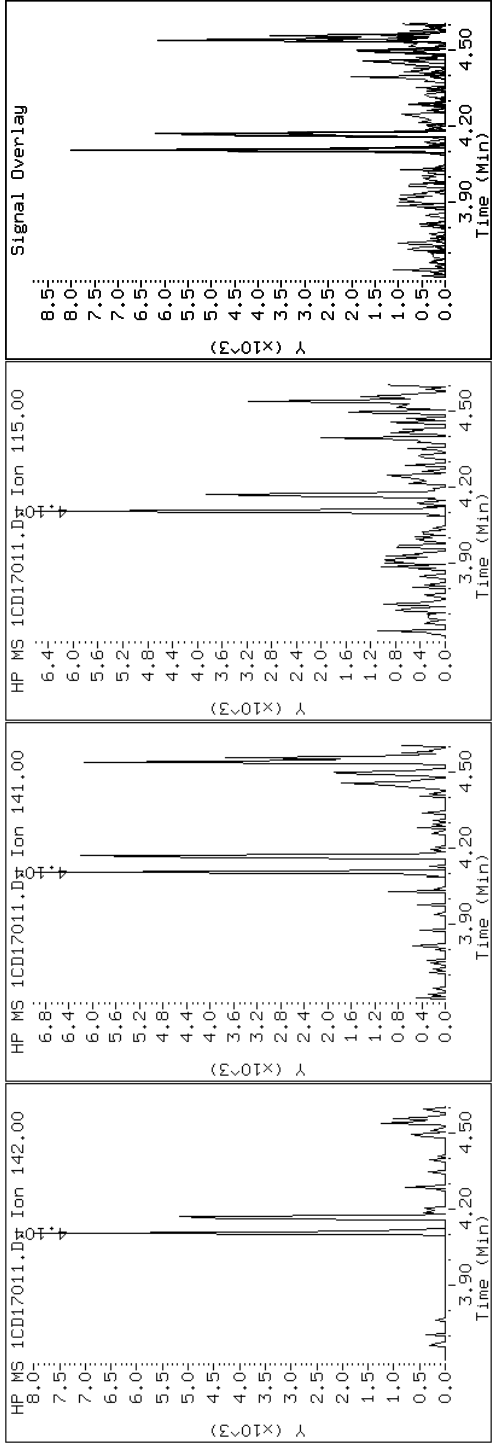
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CDI7011.D

Date: 17-APR-2013 12:44

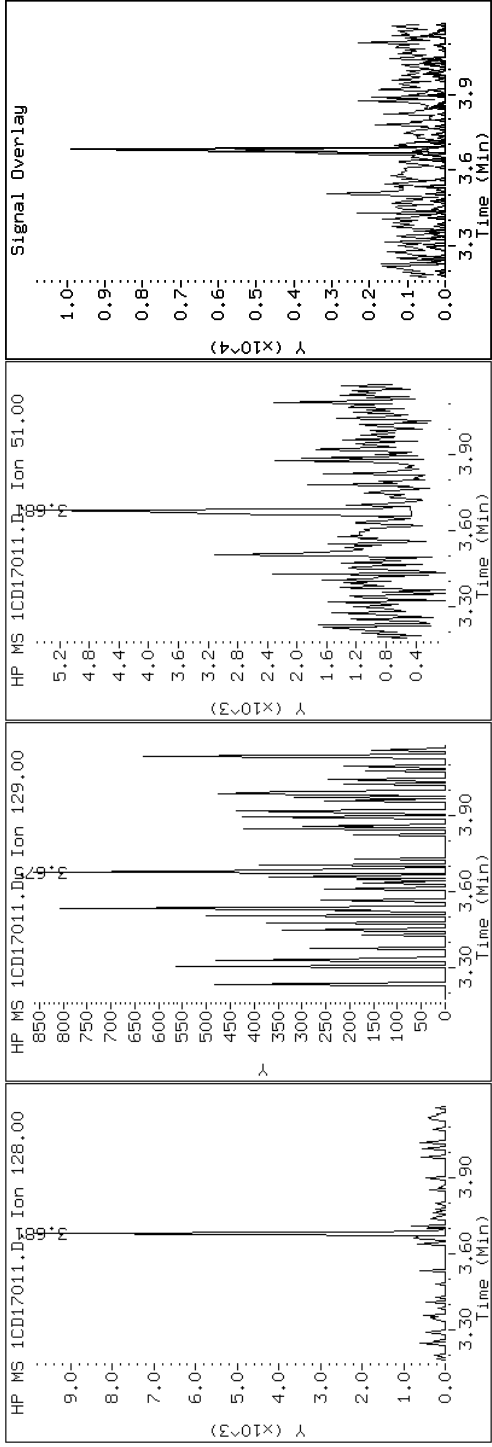
Client ID: CVI086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

2 Naphthalene





Data File: 1CD17011.D

Date: 17-APR-2013 12:44

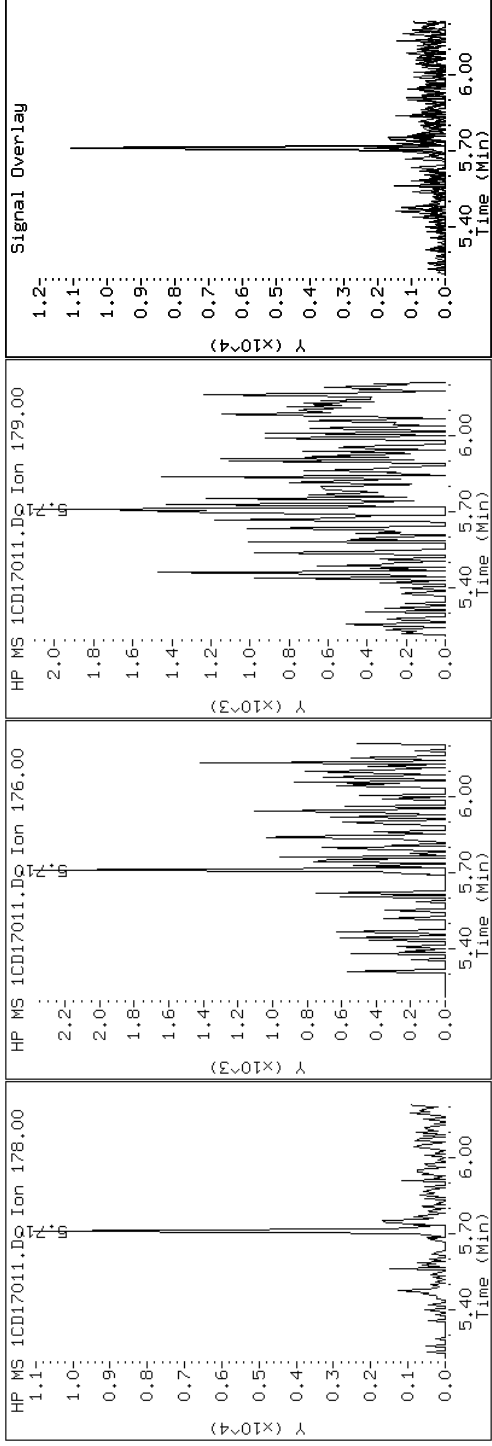
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17011.D

Date: 17-APR-2013 12:44

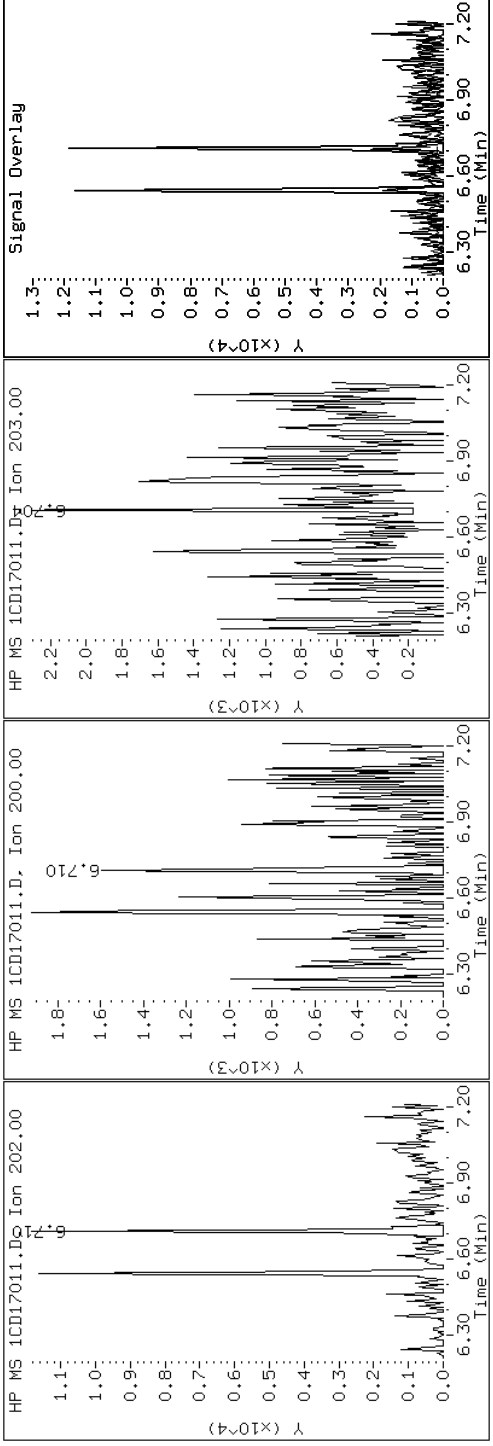
Client ID: CV1086B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-6-a

Operator: SCC

16 Pyrene



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1086C-GS Lab Sample ID: 680-89275-7  
 Matrix: Solid Lab File ID: 1CD17012.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 10:10  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.94 (g) Date Analyzed: 04/17/2013 13:03  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 27.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	51	J	220	28
120-12-7	Anthracene	99		46	23
56-55-3	Benzo[a]anthracene	360		44	22
50-32-8	Benzo[a]pyrene	230		57	29
205-99-2	Benzo[b]fluoranthene	420		67	34
191-24-2	Benzo[g,h,i]perylene	260		110	24
207-08-9	Benzo[k]fluoranthene	190		44	20
218-01-9	Chrysene	510		50	25
53-70-3	Dibenz(a,h)anthracene	110	U	110	23
206-44-0	Fluoranthene	400		110	22
86-73-7	Fluorene	120		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	450		110	39
90-12-0	1-Methylnaphthalene	760		220	24
91-57-6	2-Methylnaphthalene	770		220	39
91-20-3	Naphthalene	510		220	24
85-01-8	Phenanthrene	720		44	22
129-00-0	Pyrene	440		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17012.D  
 Lab Smp Id: 680-89275-A-7-A Client Smp ID: CV1086C-GS  
 Inj Date : 17-APR-2013 13:03  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-7-a  
 Misc Info : 680-89275-A-7-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 12  
 Dil Factor: 4.00000  
 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	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	27.273	% 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	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.669	3.663	(1.000)	343131	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	229486	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	414344	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.043)	6474	1.63320	601.2451	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	456473	40.0000		
* 23 Perylene-d12	264		8.786	8.780	(1.000)	441015	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	12836	1.38388	509.4607	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	11332	2.09948	772.9010	
4 1-Methylnaphthalene	142		4.169	4.168	(1.136)	12278	2.07232	762.9037	
5 Acenaphthylene	152		4.669	4.663	(0.983)	1347	0.13852	50.9949(Q)	
9 Fluorene	166		5.092	5.092	(1.072)	2423	0.32491	119.6107(Q)	
11 Phenanthrene	178		5.710	5.709	(1.002)	23595	1.94556	716.2378	
12 Anthracene	178		5.745	5.745	(1.008)	3234	0.26885	98.9755	
13 Carbazole	167		5.857	5.851	(1.028)	2372	0.21173	77.9452(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.545	6.545	(1.149)	14660	1.09066	401.5145
16 Pyrene	202	6.710	6.709	(0.880)	15519	1.19504	439.9410
17 Benzo(a)anthracene	228	7.621	7.621	(0.999)	12729	0.98612	363.0295
19 Chrysene	228	7.645	7.651	(1.002)	17522	1.37219	505.1560
20 Benzo(b)fluoranthene	252	8.451	8.450	(0.962)	12784	1.14769	422.5090
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	6503	0.51594	189.9361
22 Benzo(a)pyrene	252	8.733	8.733	(0.994)	7109	0.61742	227.2948
24 Indeno(1,2,3-cd)pyrene	276	9.904	9.903	(1.127)	6677	1.22311	450.2759
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	7509	0.69578	256.1430

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1CD17012.D

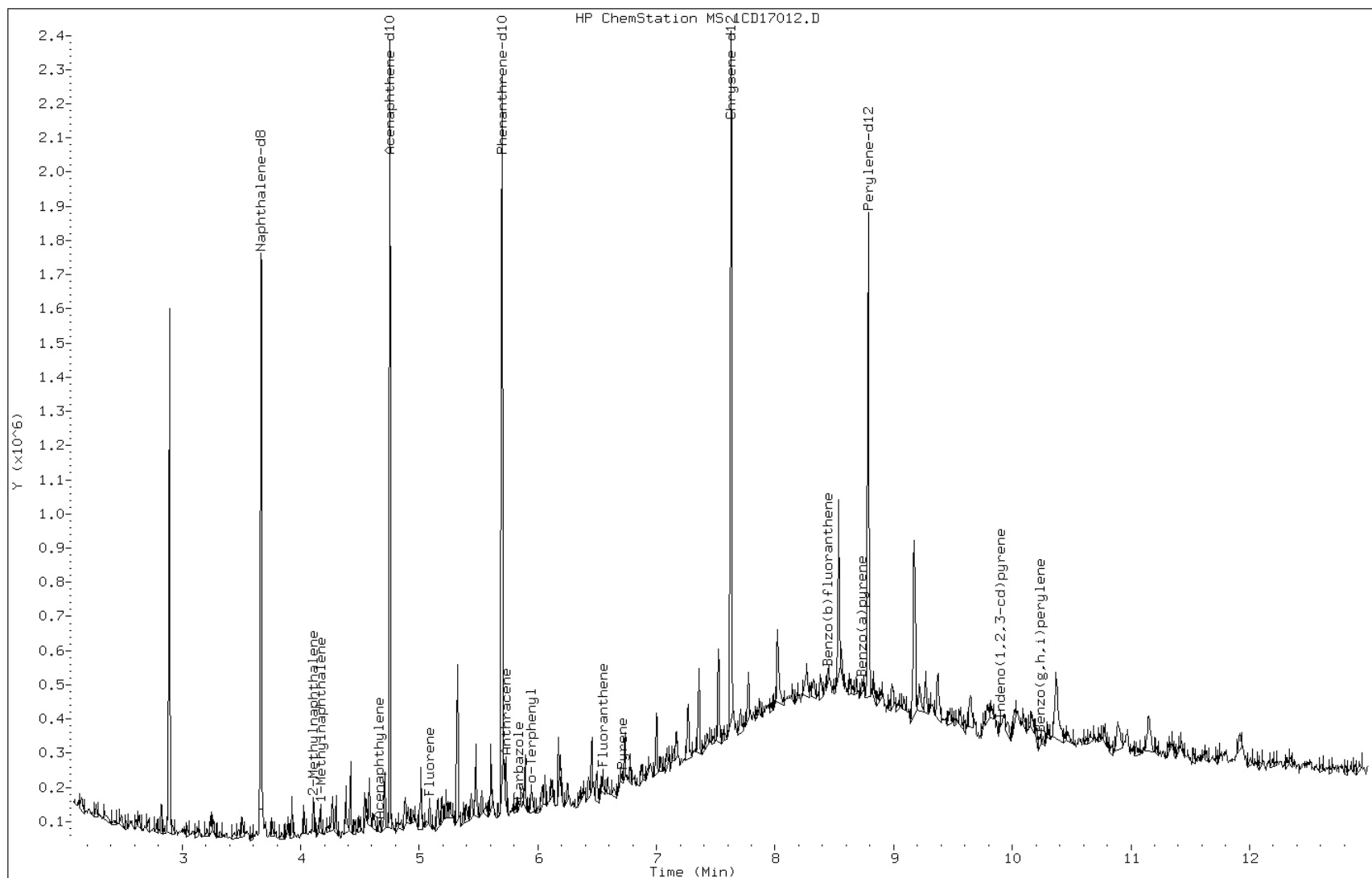
Date: 17-APR-2013 13:03

Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

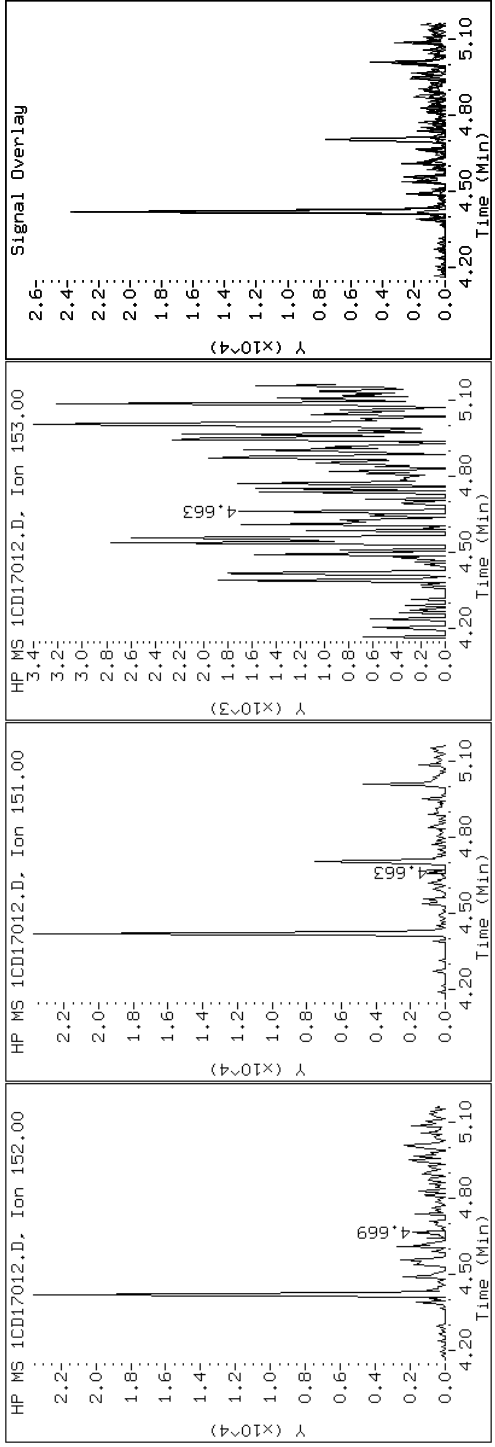
Client ID: CVI086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

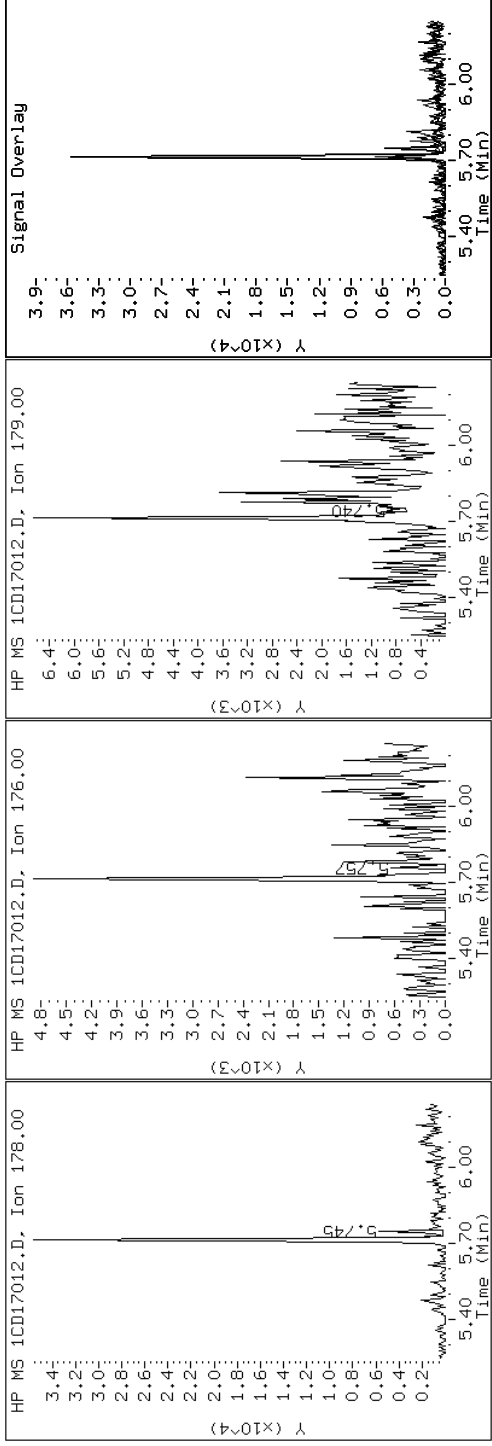
Client ID: CVI086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

12 Anthracene





Data File: 1CD17012.D

Date: 17-APR-2013 13:03

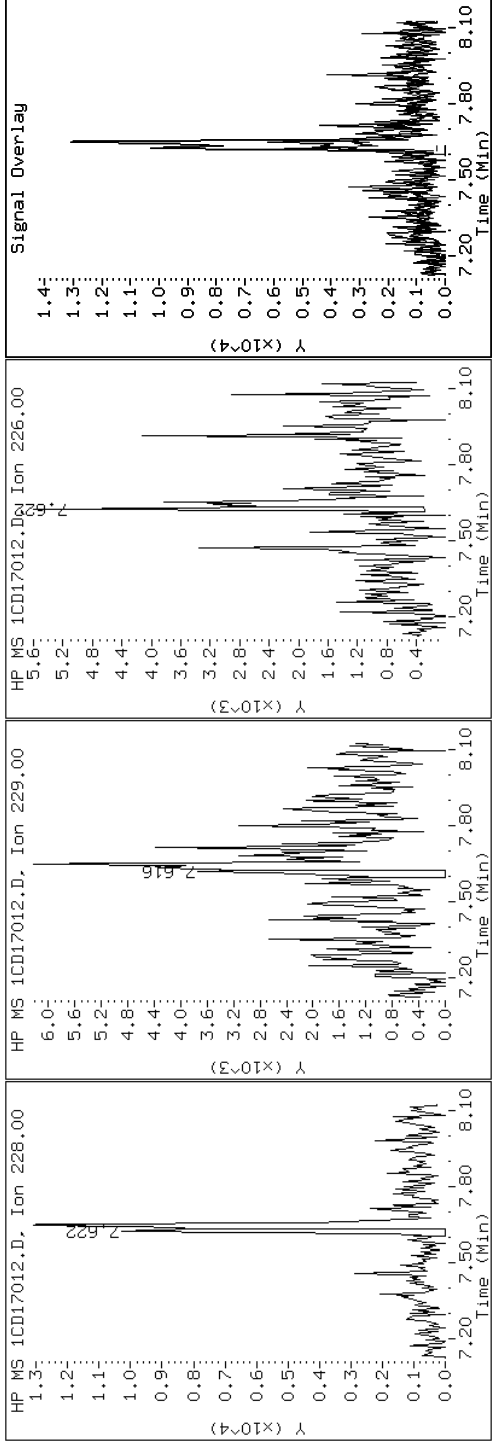
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

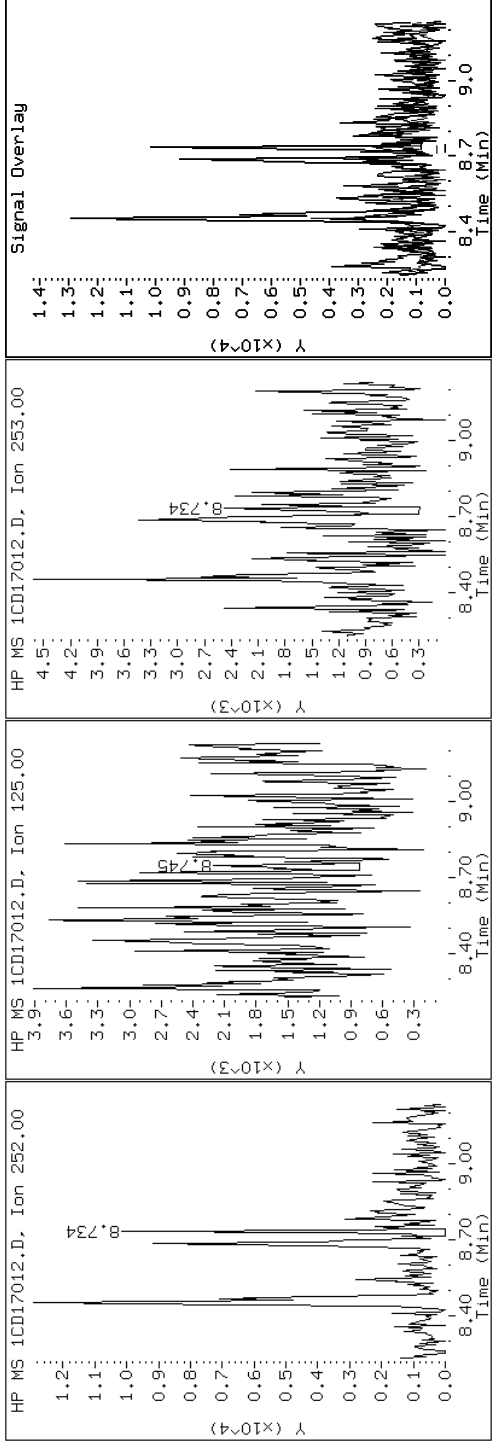
Client ID: CVI086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

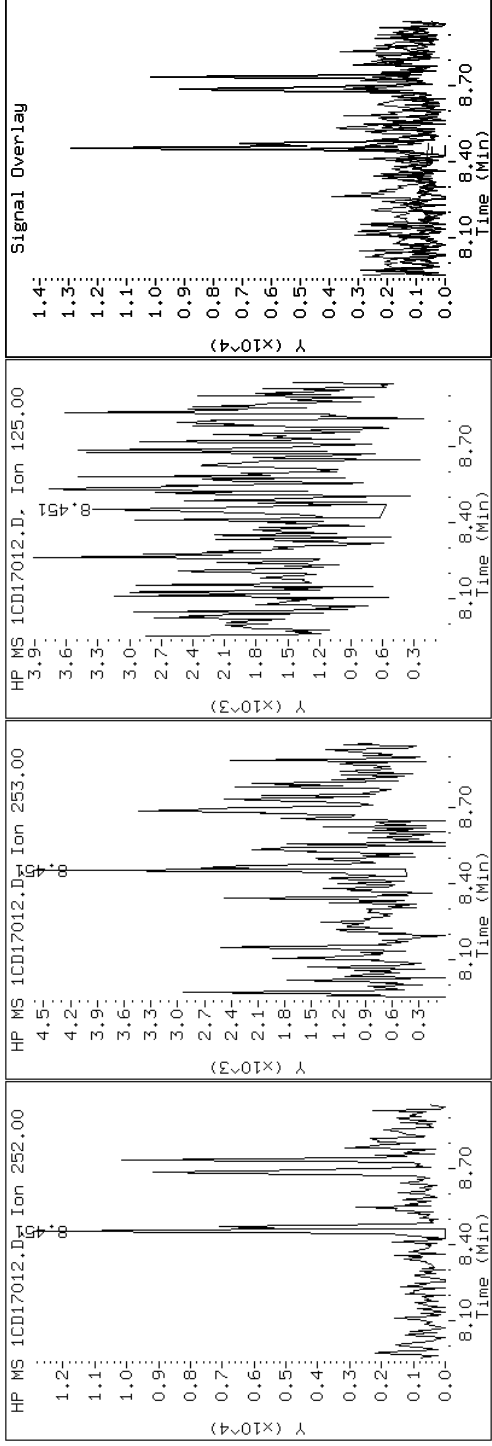
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

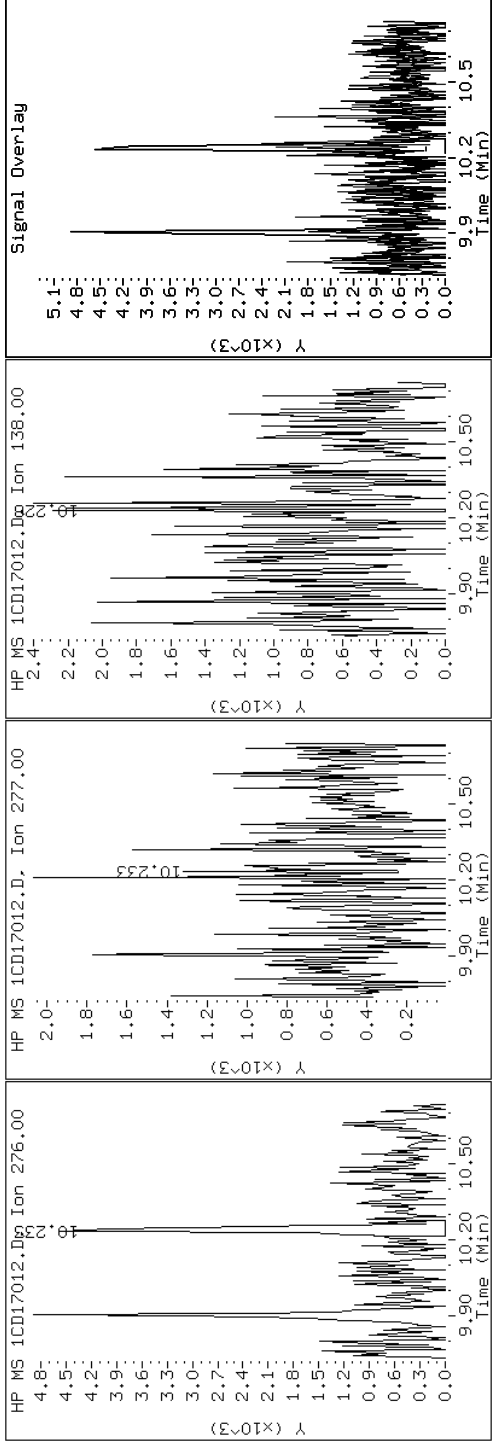
Client ID: CVI086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

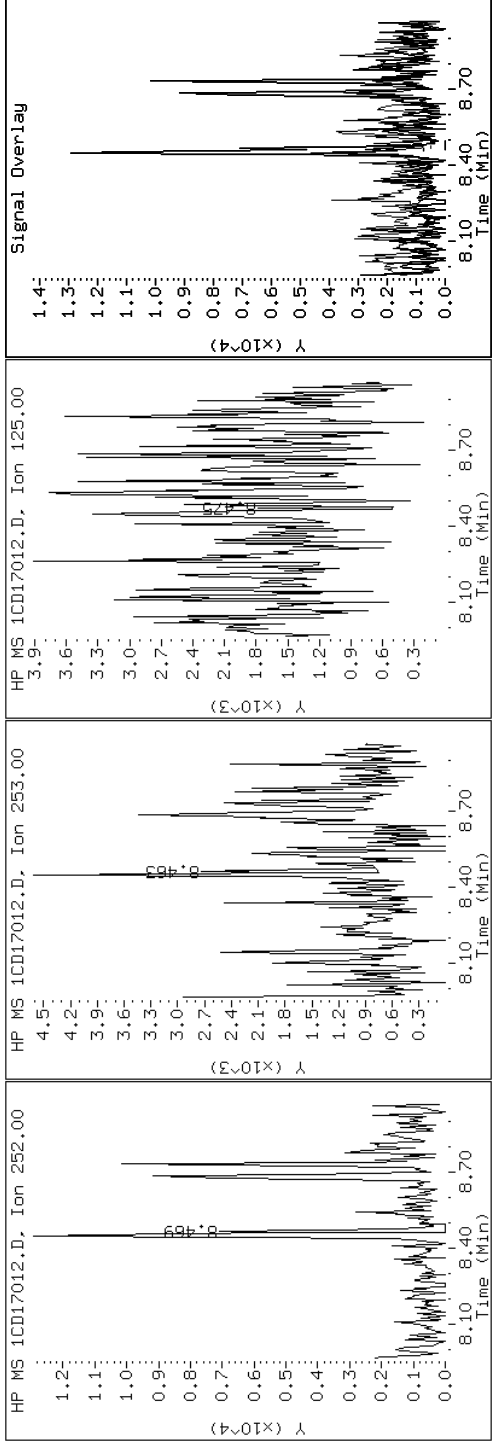
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

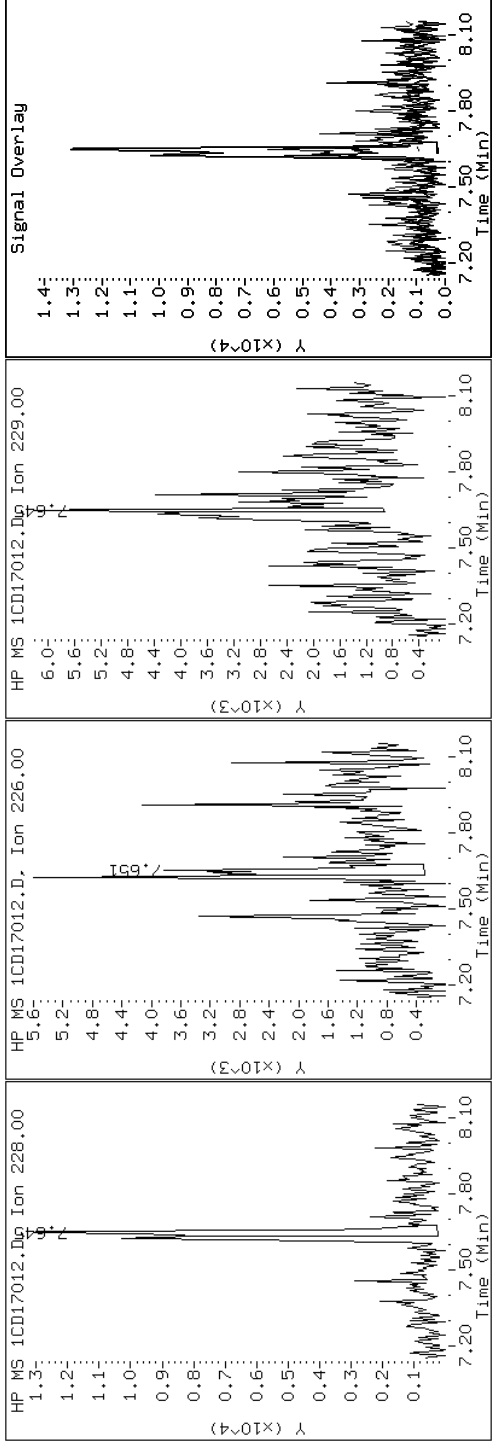
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

19 Chrysene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

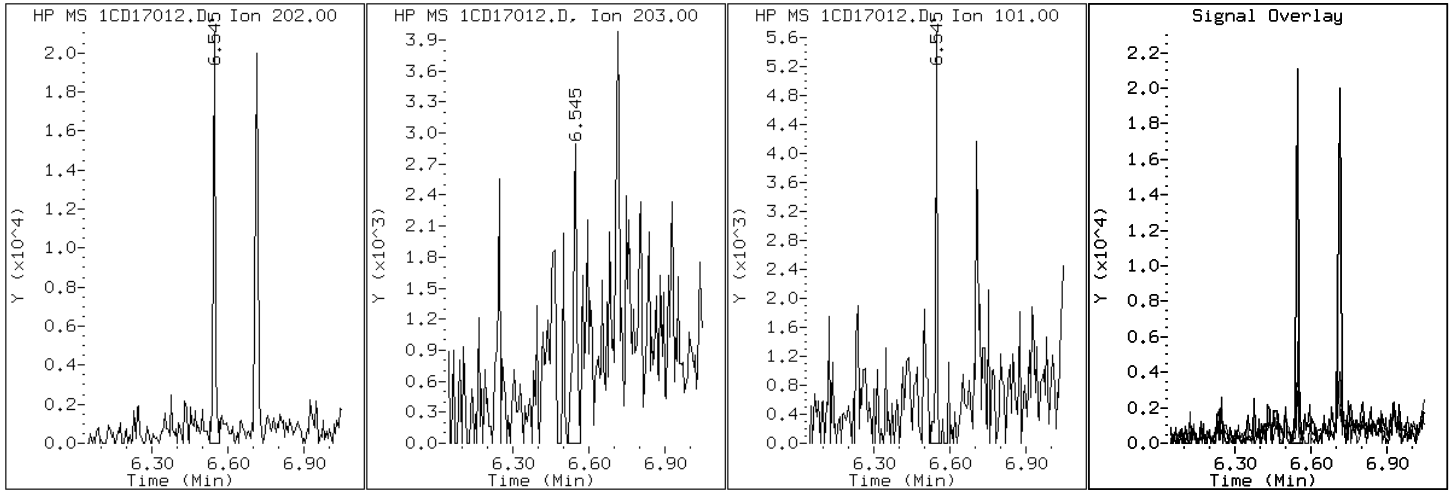
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

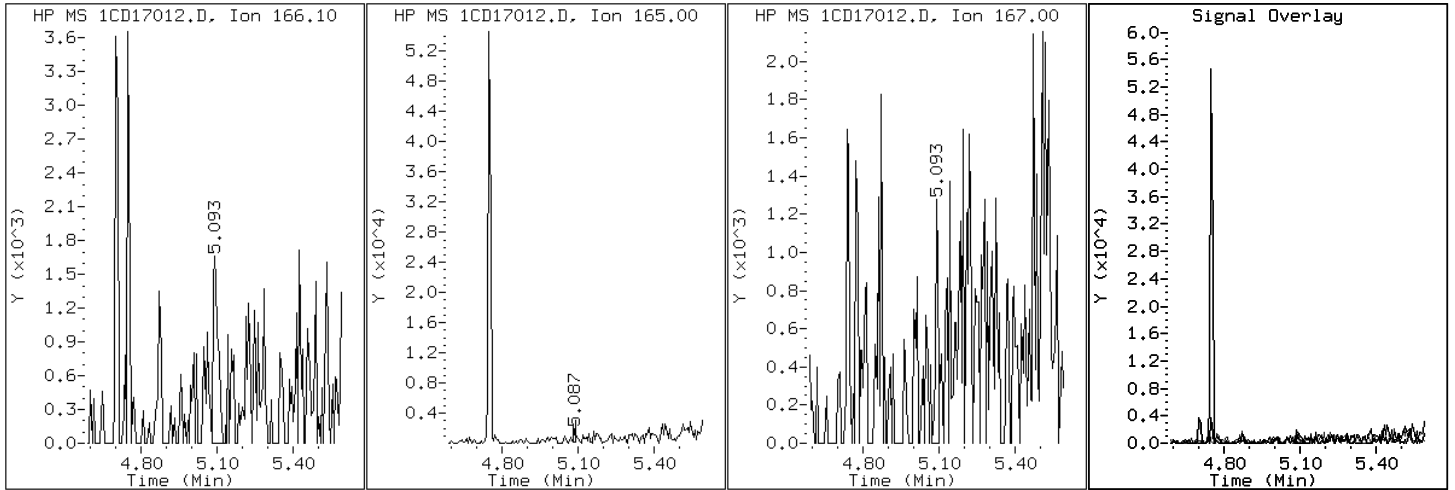
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

9 Fluorene





Data File: 1CDI7012.D

Date: 17-APR-2013 13:03

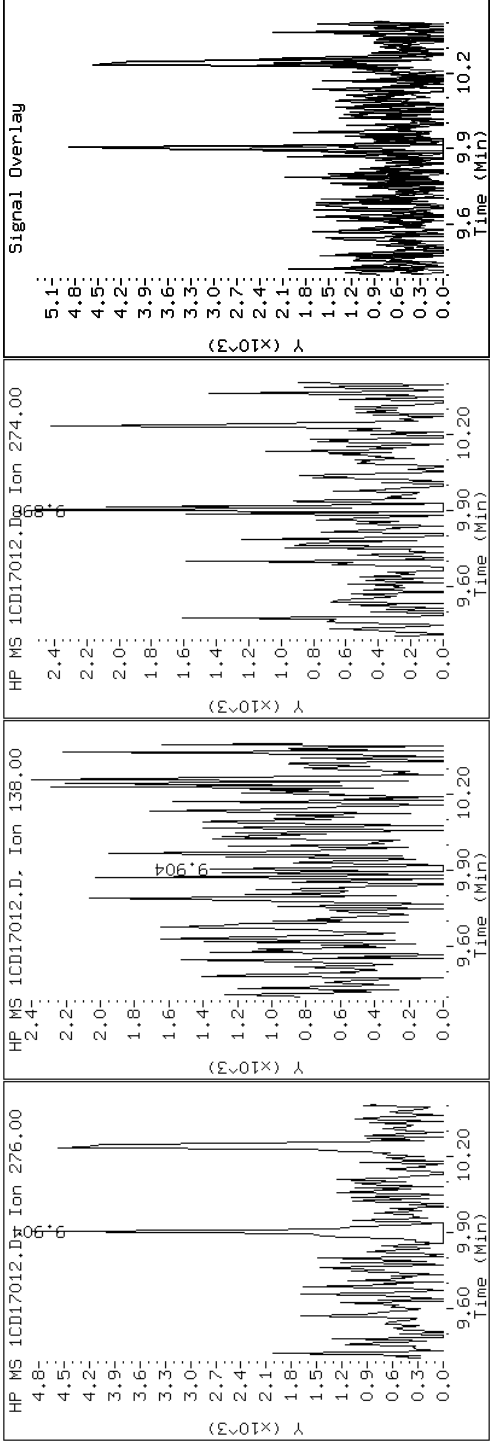
Client ID: CVI086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

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



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

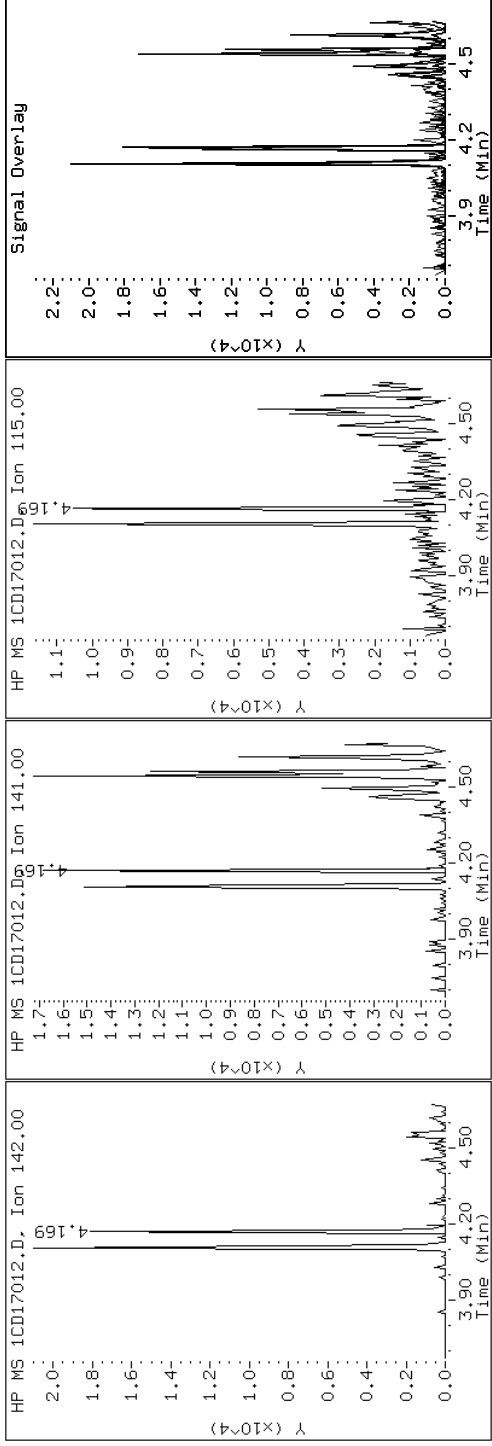
Client ID: CVI086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

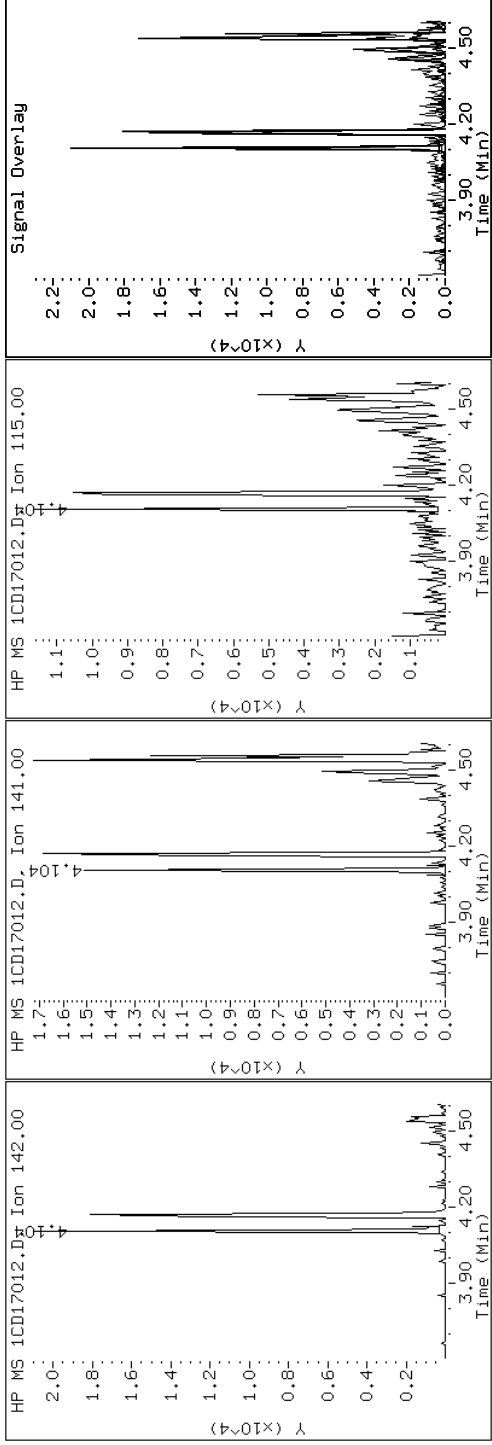
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

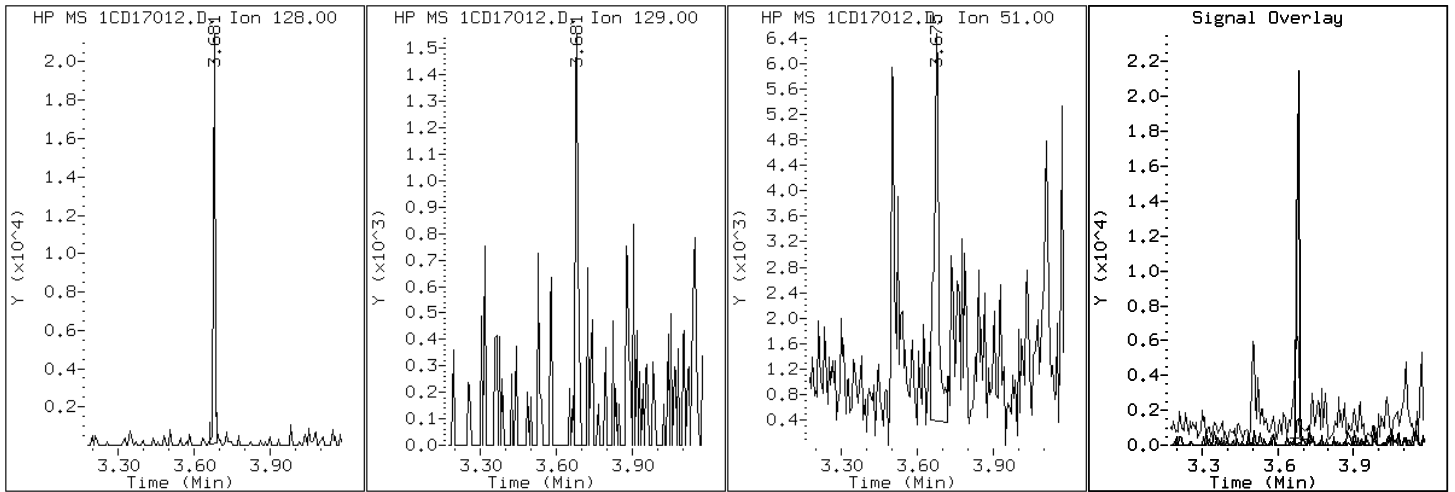
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

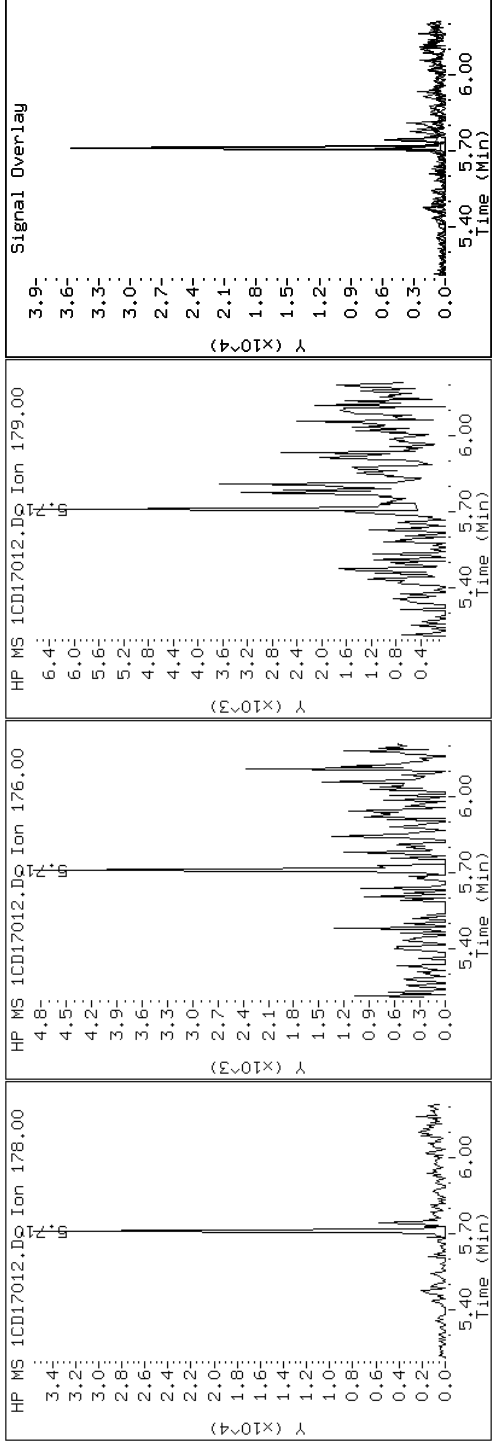
Client ID: CVI086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17012.D

Date: 17-APR-2013 13:03

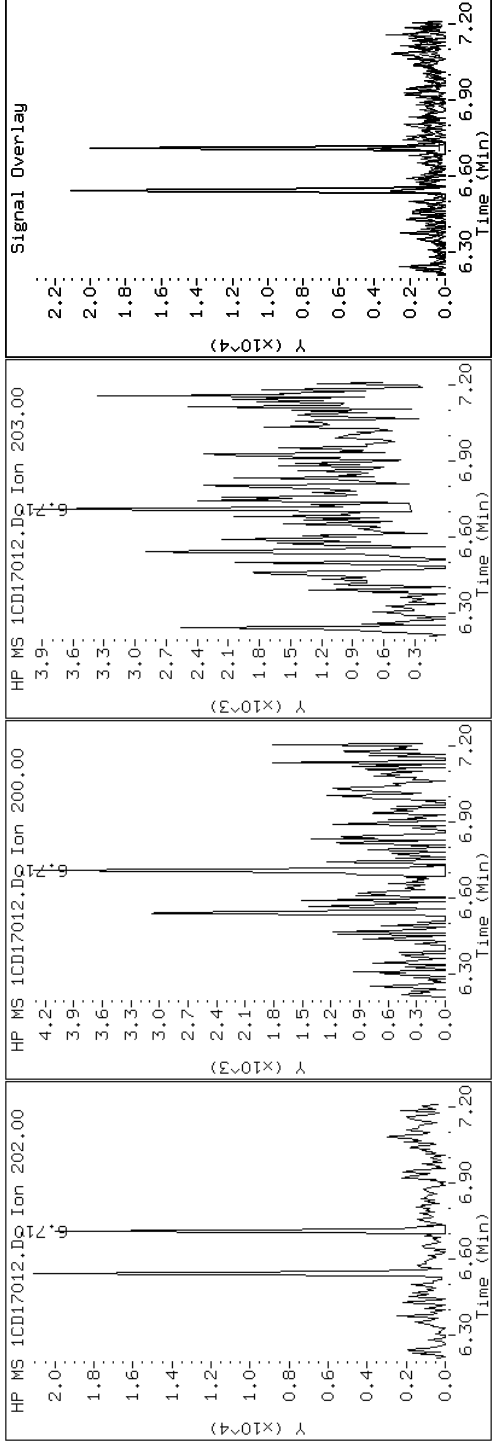
Client ID: CV1086C-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-7-a

Operator: SCC

16 Pyrene



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV01088A-CS Lab Sample ID: 680-89275-8  
 Matrix: Solid Lab File ID: 1CD17013.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 09:20  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.95(g) Date Analyzed: 04/17/2013 13:21  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	33	J	50	6.2
120-12-7	Anthracene	42		10	5.2
56-55-3	Benzo[a]anthracene	150		9.9	4.8
50-32-8	Benzo[a]pyrene	150		13	6.4
205-99-2	Benzo[b]fluoranthene	310		15	7.6
191-24-2	Benzo[g,h,i]perylene	170		25	5.5
207-08-9	Benzo[k]fluoranthene	98		9.9	4.5
218-01-9	Chrysene	270		11	5.6
53-70-3	Dibenz(a,h)anthracene	78		25	5.1
206-44-0	Fluoranthene	180		25	5.0
86-73-7	Fluorene	23	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	170		25	8.8
90-12-0	1-Methylnaphthalene	200		50	5.5
91-57-6	2-Methylnaphthalene	240		50	8.8
91-20-3	Naphthalene	140		50	5.5
85-01-8	Phenanthrene	280		9.9	4.8
129-00-0	Pyrene	180		25	4.6

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\1C041713.b\1CD17013.D  
 Lab Smp Id: 680-89275-A-8-A Client Smp ID: CV01088A-CS  
 Inj Date : 17-APR-2013 13:21  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-8-a  
 Misc Info : 680-89275-A-8-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 13  
 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	14.950	Weight Extracted
M	19.077	% 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		3.668	3.663	(1.000)	355926	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	237261	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	431408	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.043)	29273	4.78726	395.7049	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	509591	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	465947	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	16480	1.71288	141.5829	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	16579	2.84924	235.5125	
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	14752	2.40039	198.4110	
5 Acenaphthylene	152		4.668	4.663	(0.983)	4037	0.40155	33.1910	
9 Fluorene	166		5.098	5.092	(1.073)	2132	0.27652	22.8563(Q)	
11 Phenanthrene	178		5.709	5.709	(1.002)	43027	3.40312	281.2945	
12 Anthracene	178		5.745	5.745	(1.008)	6326	0.50510	41.7505	
13 Carbazole	167		5.857	5.851	(1.028)	4122	0.35338	29.2097	



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.545	6.545	(1.149)	30644	2.18964	180.9915
16 Pyrene	202	6.709	6.709	(0.879)	30988	2.13750	176.6811
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	26383	1.83085	151.3344
19 Chrysene	228	7.651	7.651	(1.002)	45768	3.21059	265.3809
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.962)	43888	3.72924	308.2509(M)
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.963)	15862	1.19112	98.4557(QM)
22 Benzo(a)pyrene	252	8.733	8.733	(0.993)	22305	1.83353	151.5558
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903	(1.127)	16857	2.03419	168.1418(M)
25 Dibenzo(a,h)anthracene	278	9.927	9.915	(1.129)	5944	0.94520	78.1283(Q)
26 Benzo(g,h,i)perylene	276	10.250	10.233	(1.166)	24123	2.11561	174.8723

QC Flag Legend

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

Data File: 1CD17013.D

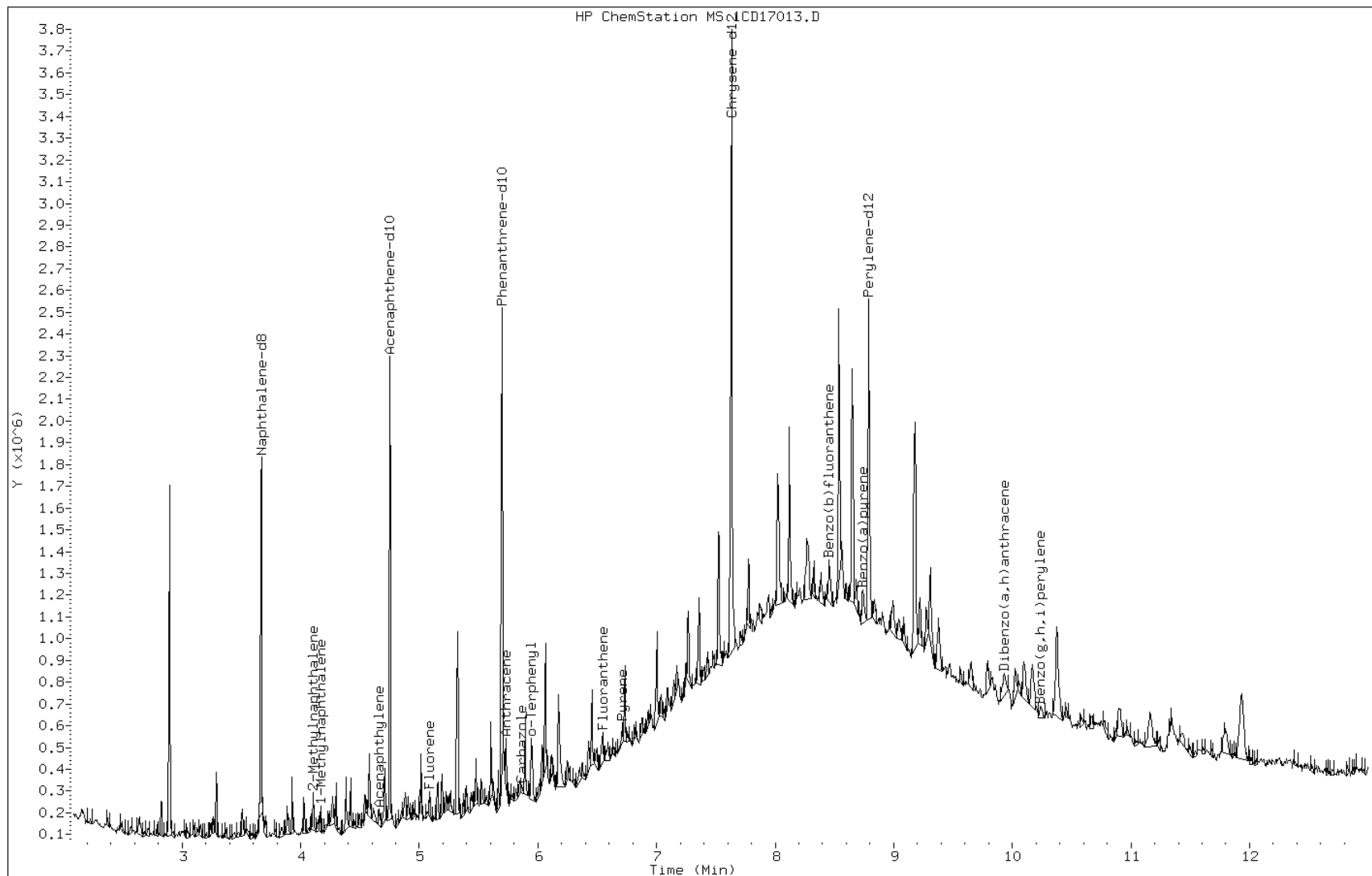
Date: 17-APR-2013 13:21

Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC



Data File: 1CDI7013.D

Date: 17-APR-2013 13:21

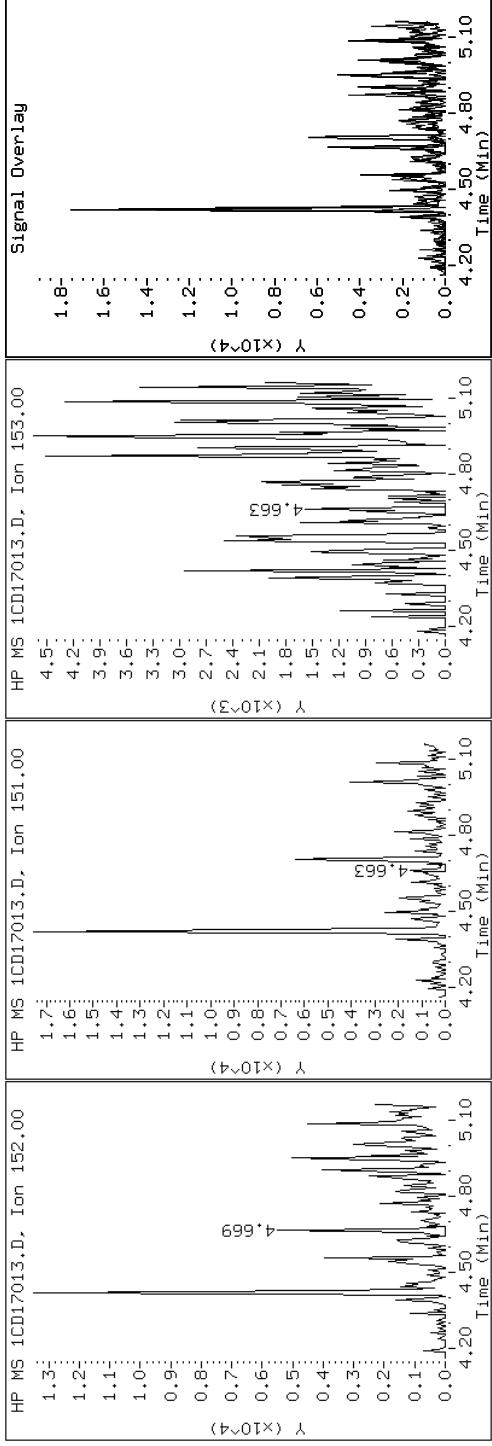
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

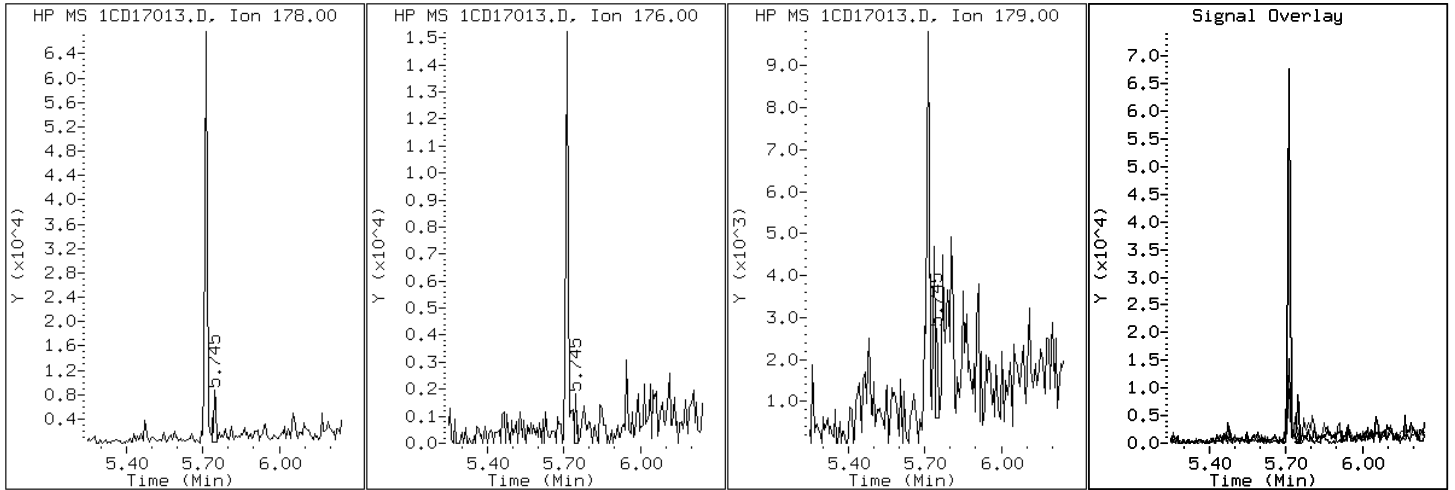
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

12 Anthracene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

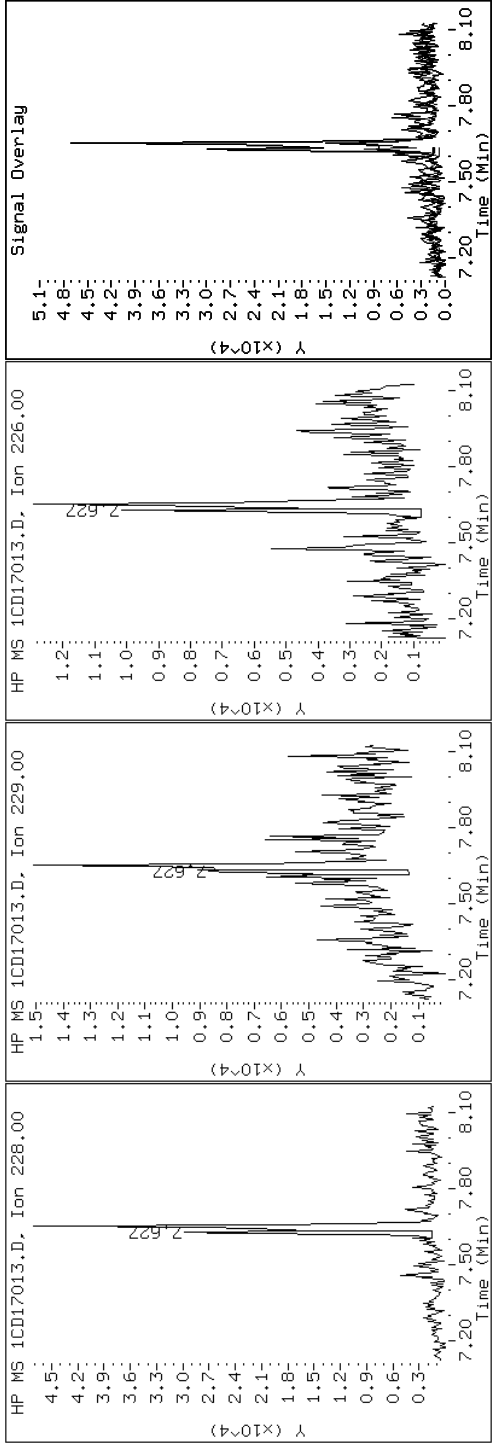
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

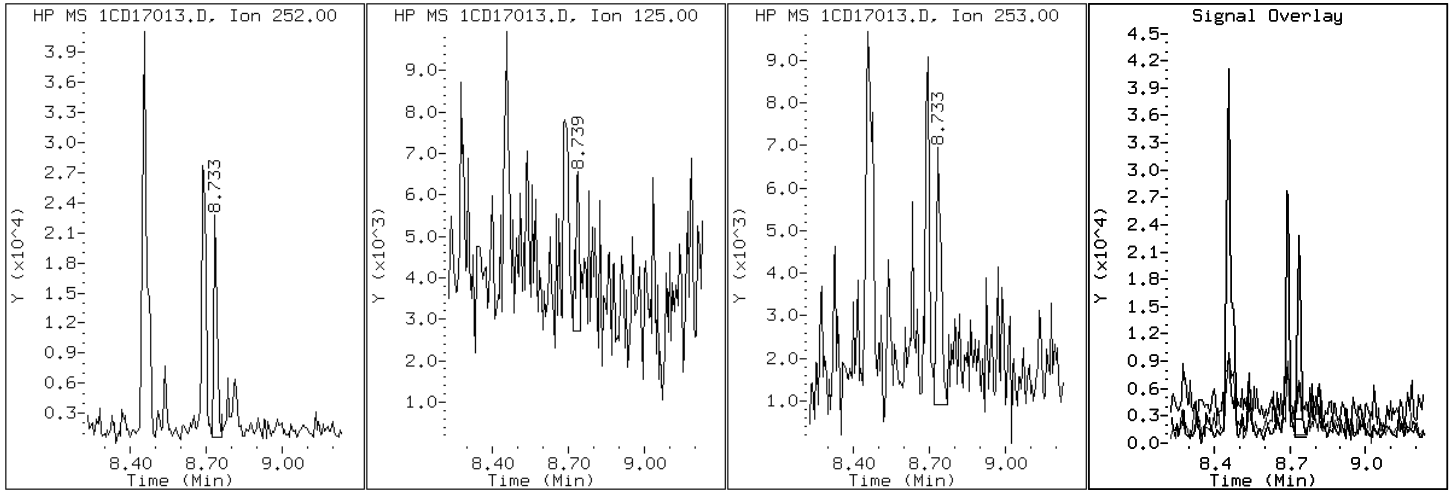
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

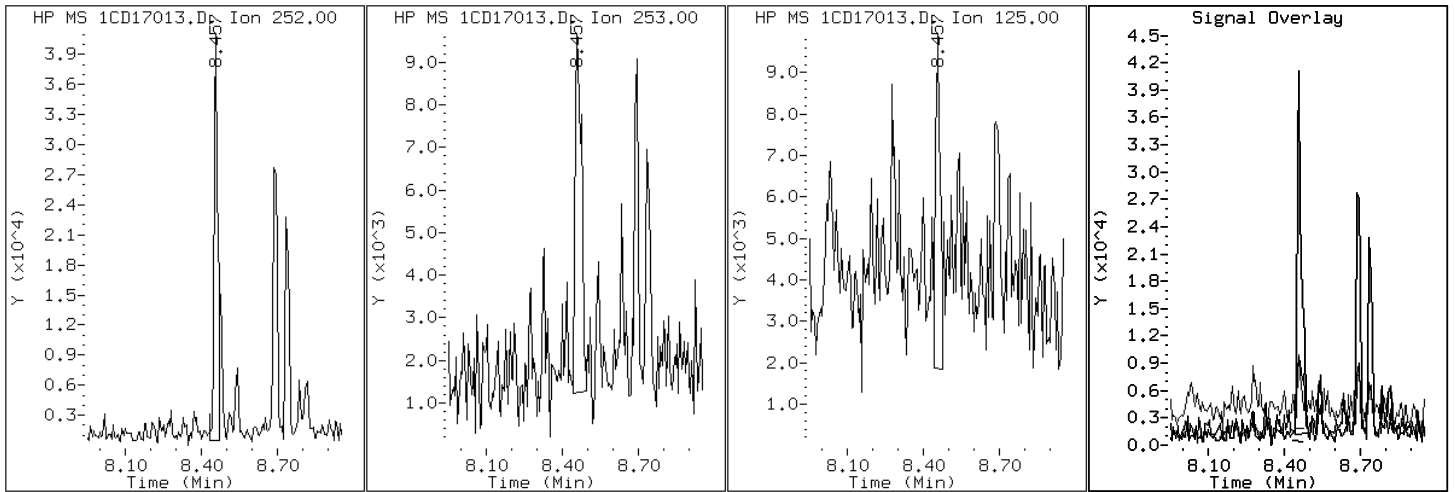
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

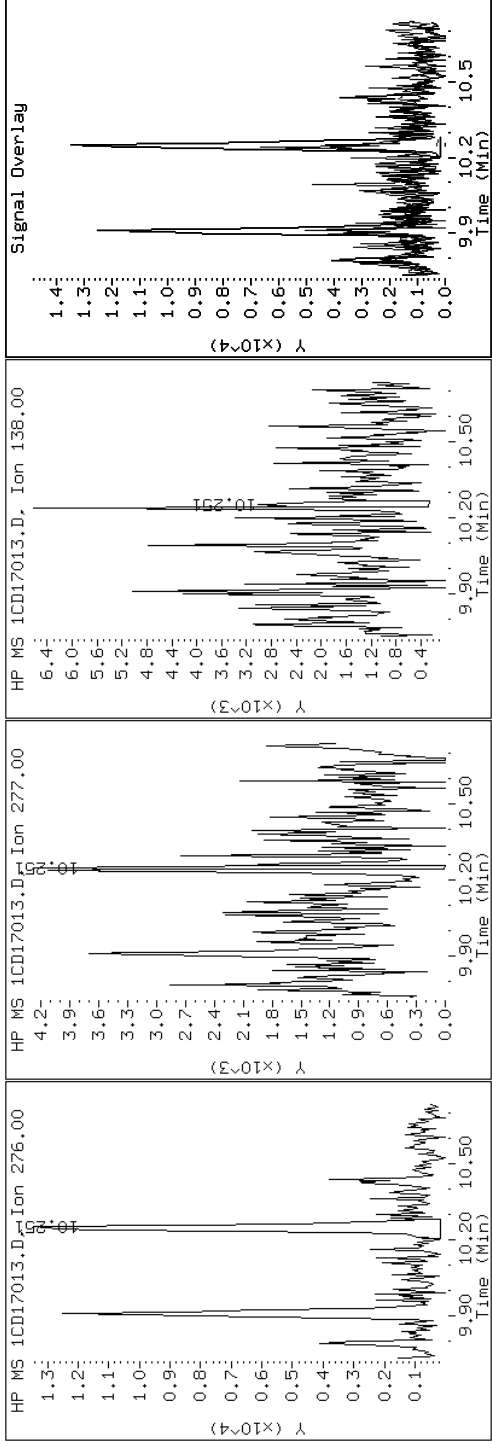
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1CD17013.D

Date: 17-APR-2013 13:21

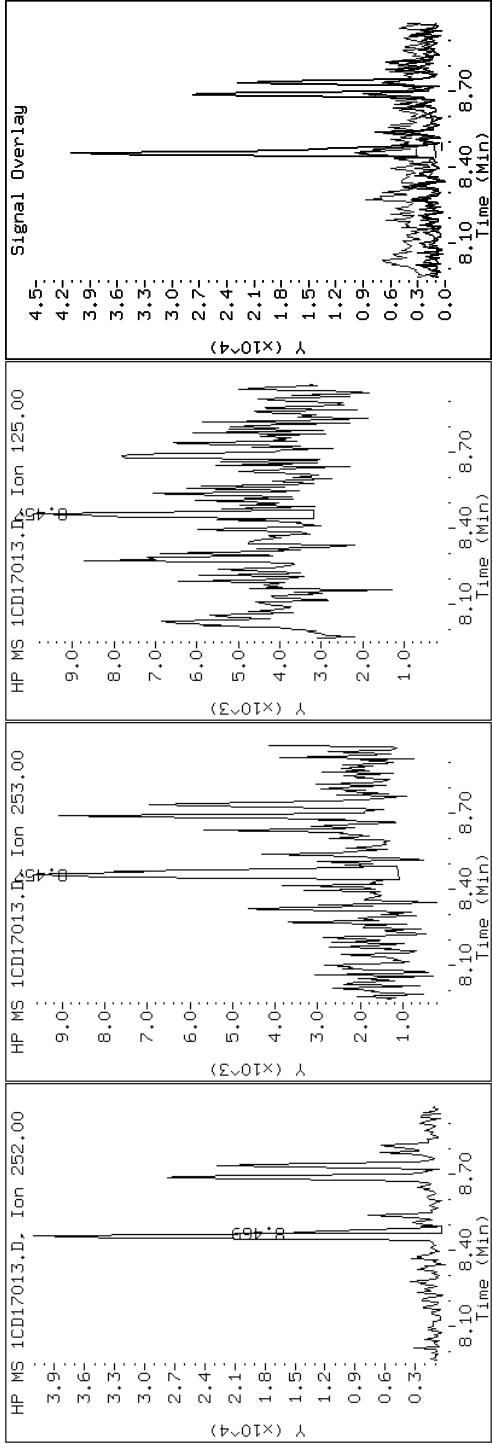
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

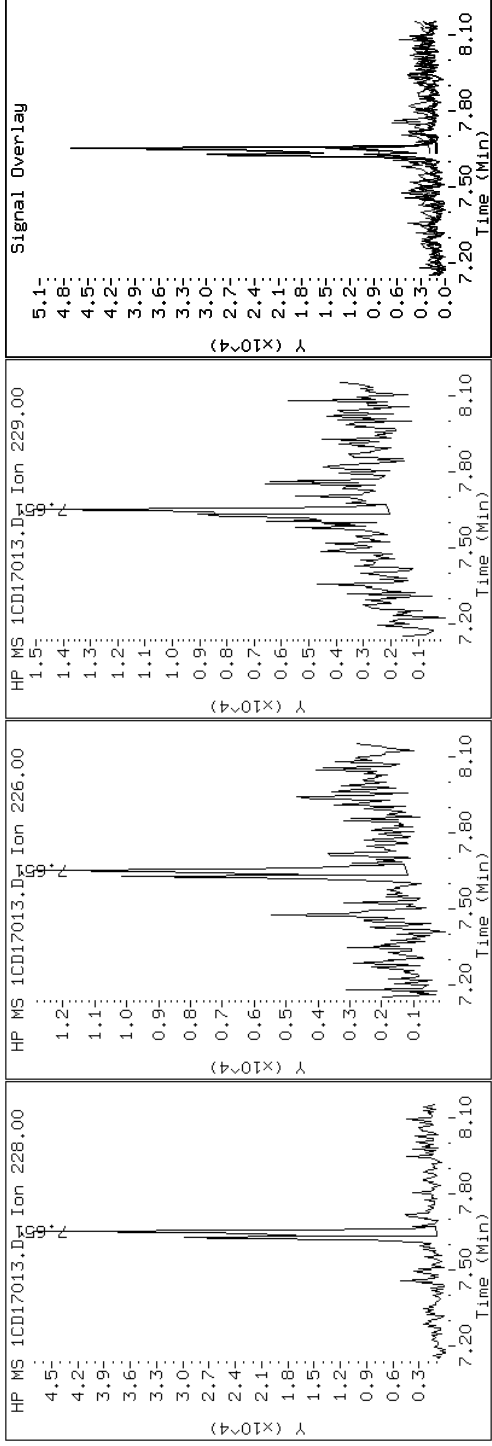
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

19 Chrysene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

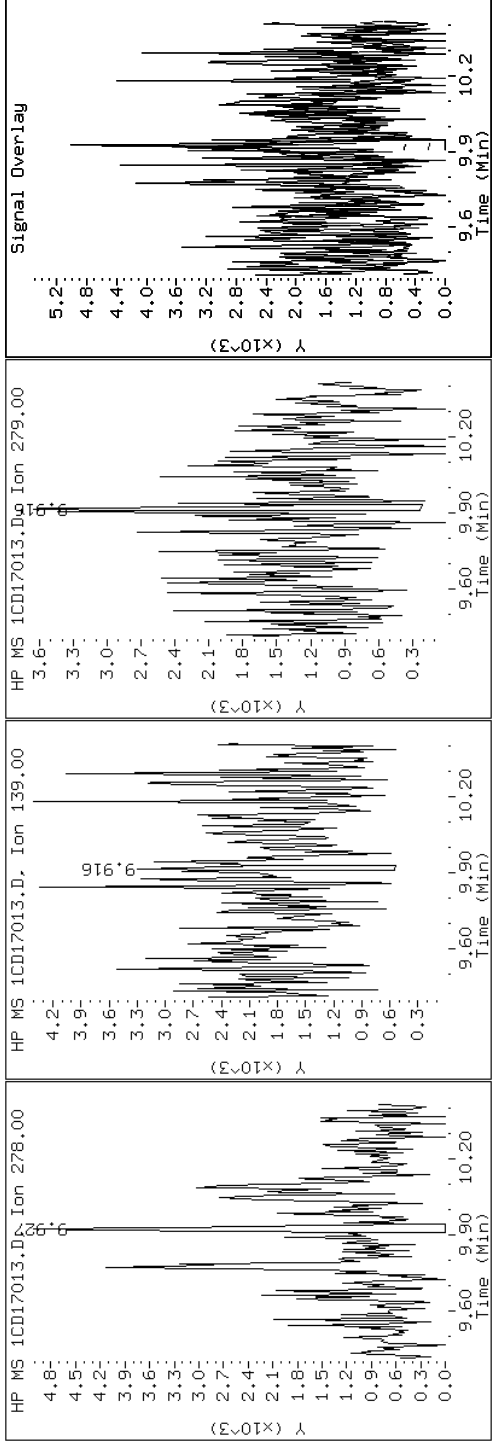
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

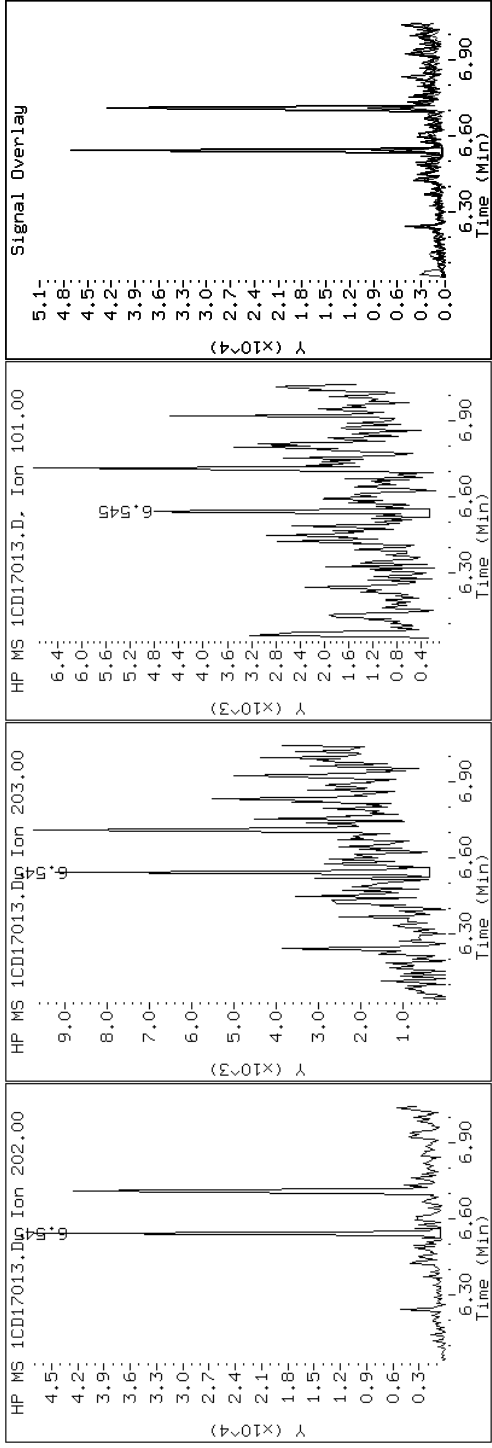
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1CDI7013.D

Date: 17-APR-2013 13:21

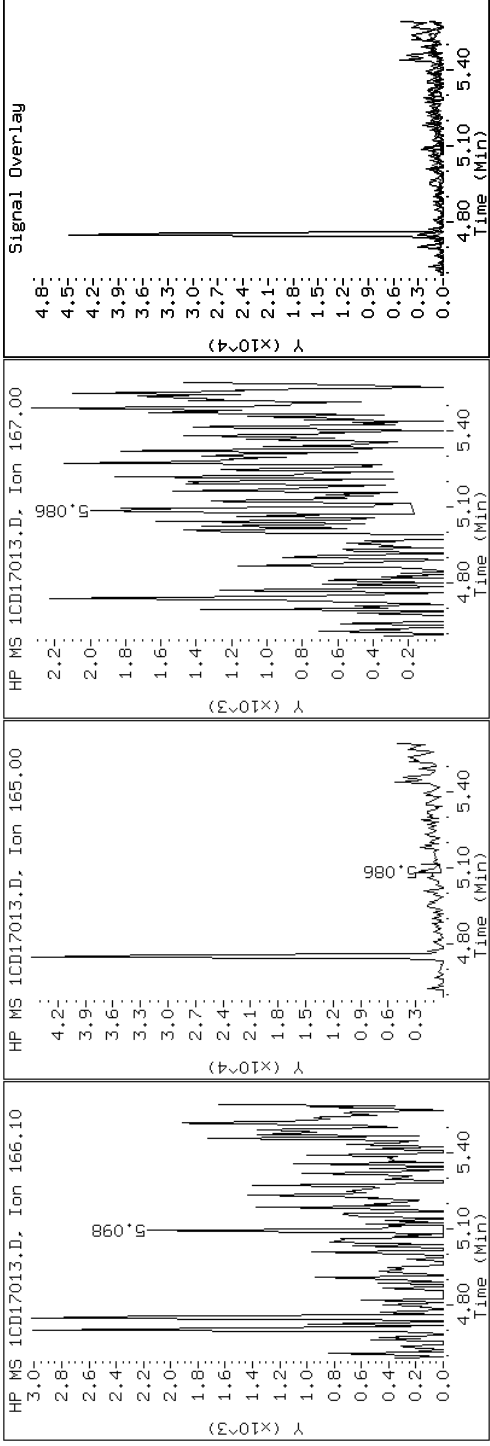
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

9 Fluorene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

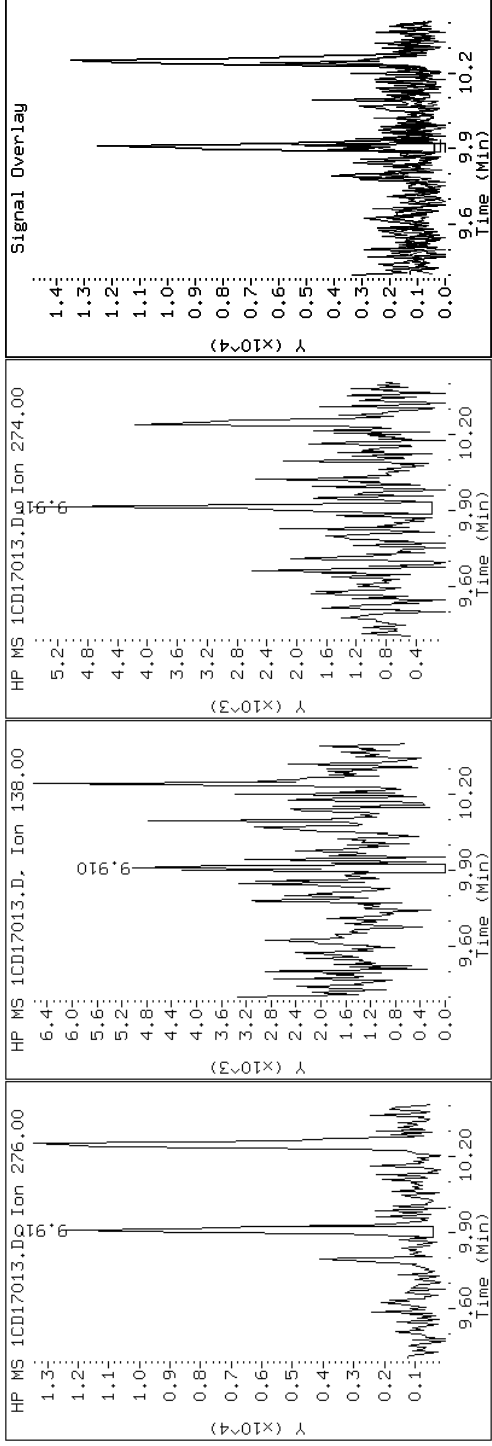
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

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



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

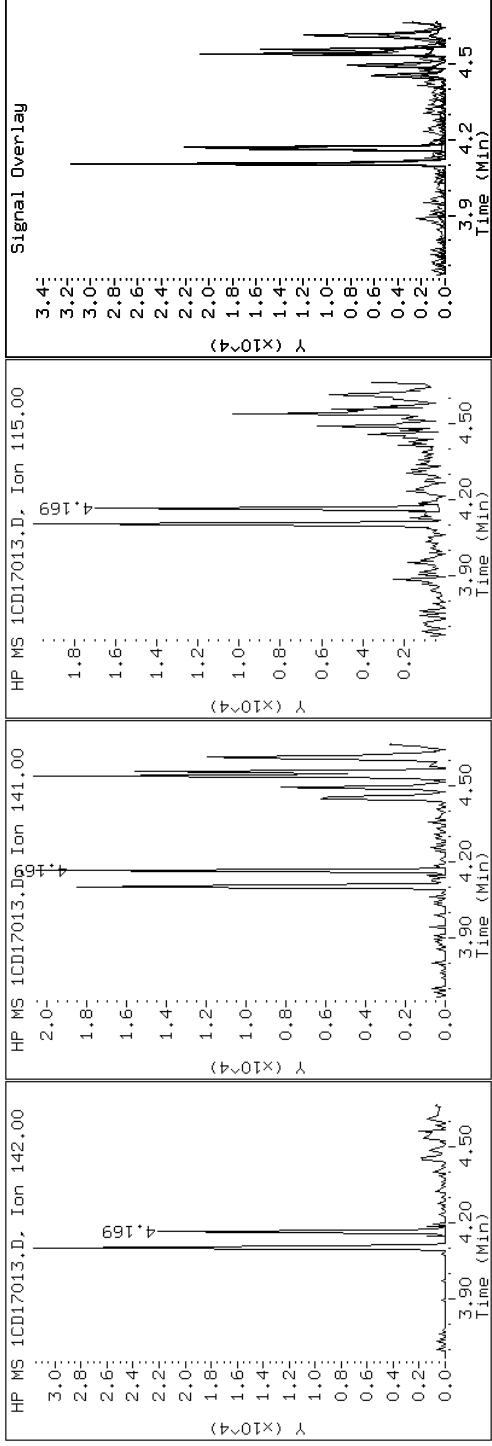
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

### 4 1-Methylnaphthalene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

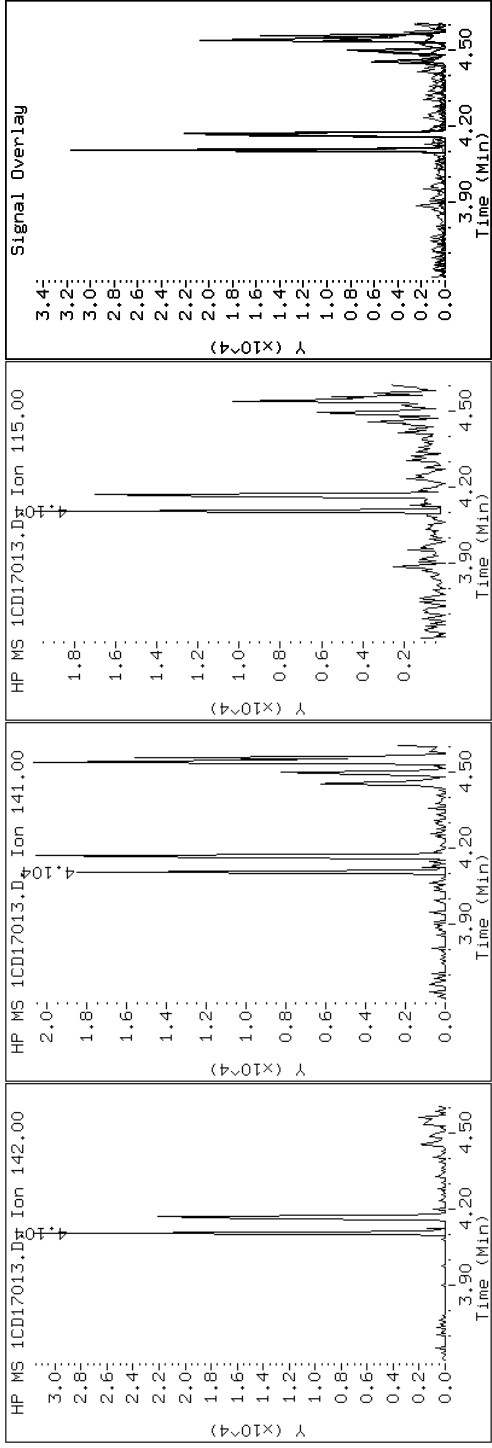
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

### 3 2-Methylnaphthalene





Data File: 1CDI7013.D

Date: 17-APR-2013 13:21

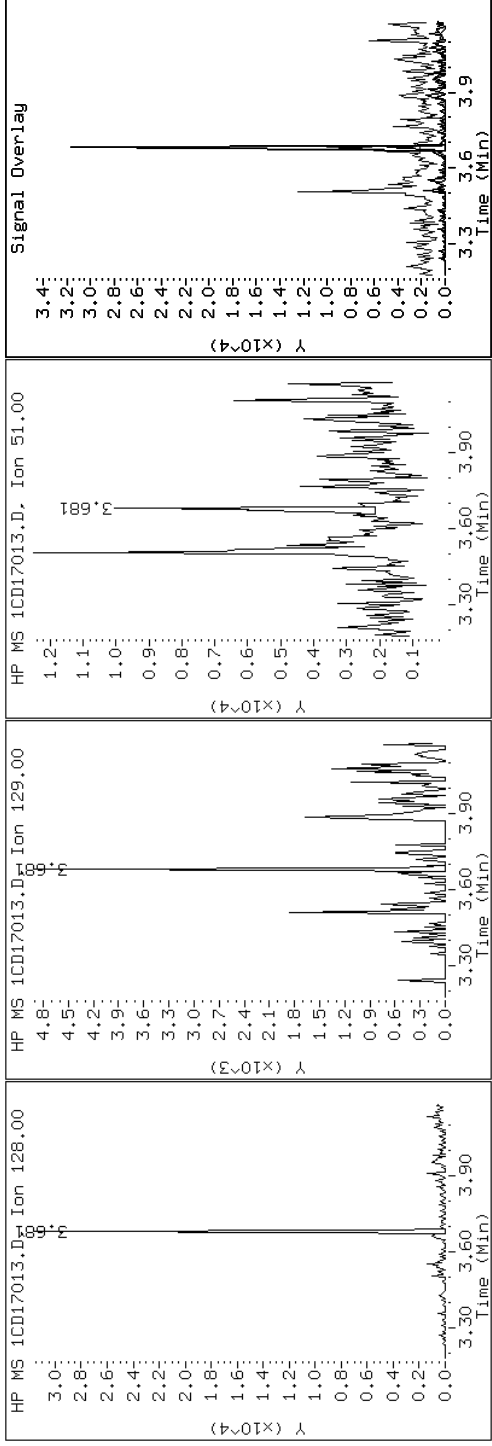
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

### 2 Naphthalene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

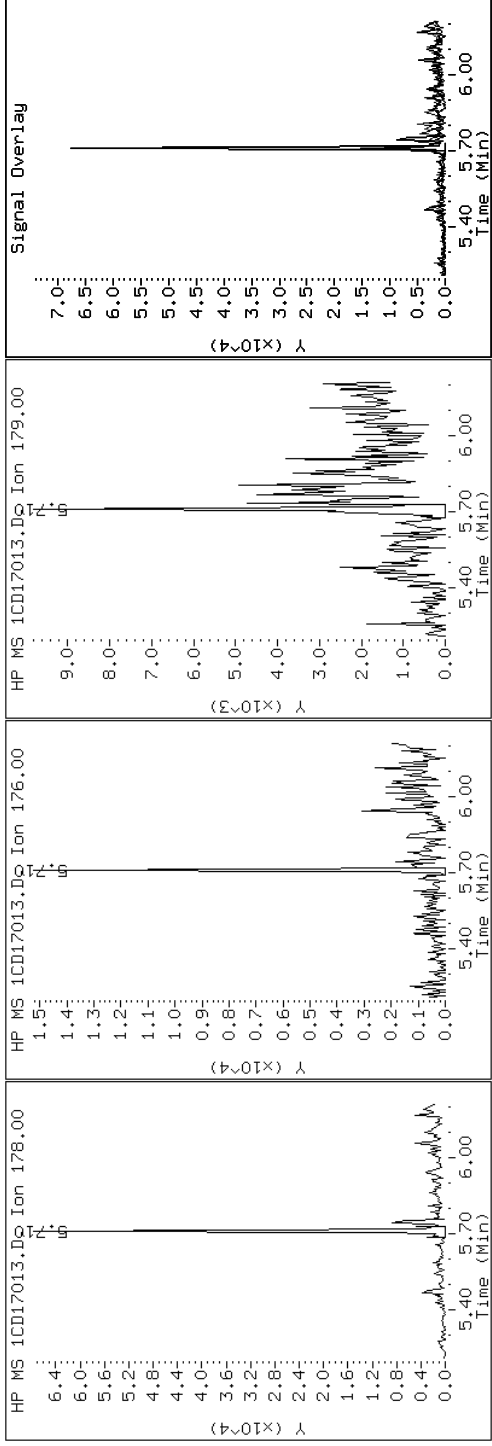
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17013.D

Date: 17-APR-2013 13:21

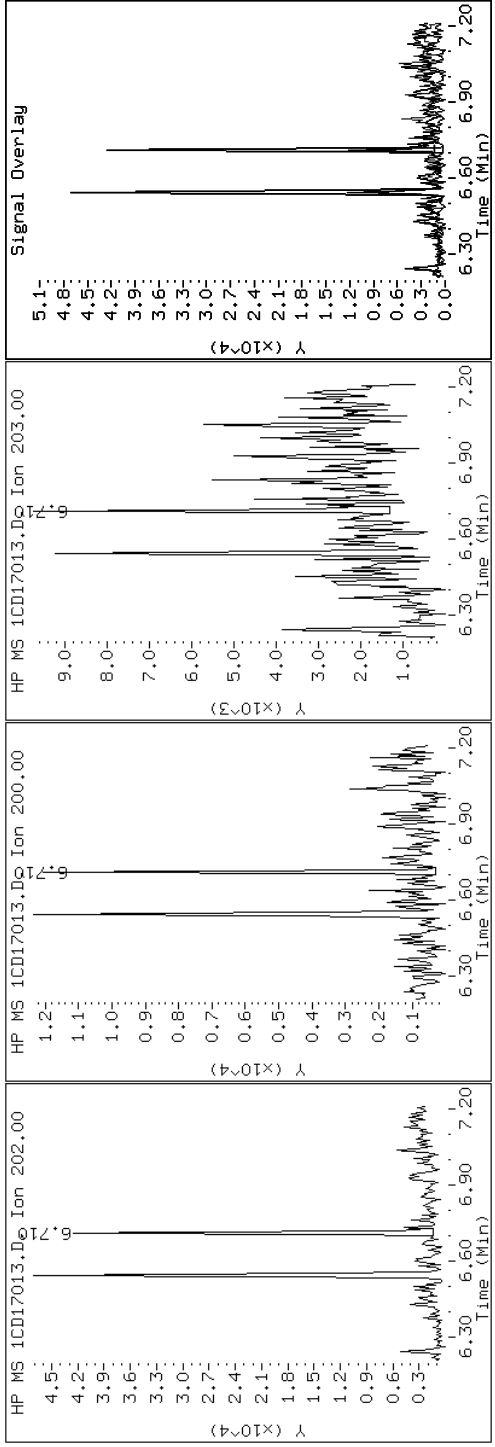
Client ID: CV01088A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-8-a

Operator: SCC

16 Pyrene

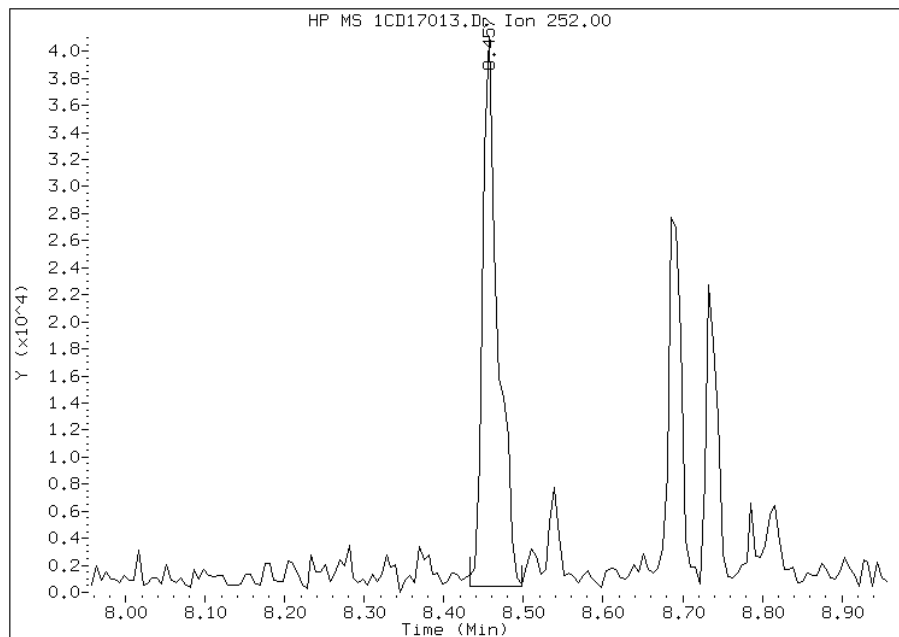


# Manual Integration Report

Data File: 1CD17013.D  
Inj. Date and Time: 17-APR-2013 13:21  
Instrument ID: BSMC5973.i  
Client ID: CV01088A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

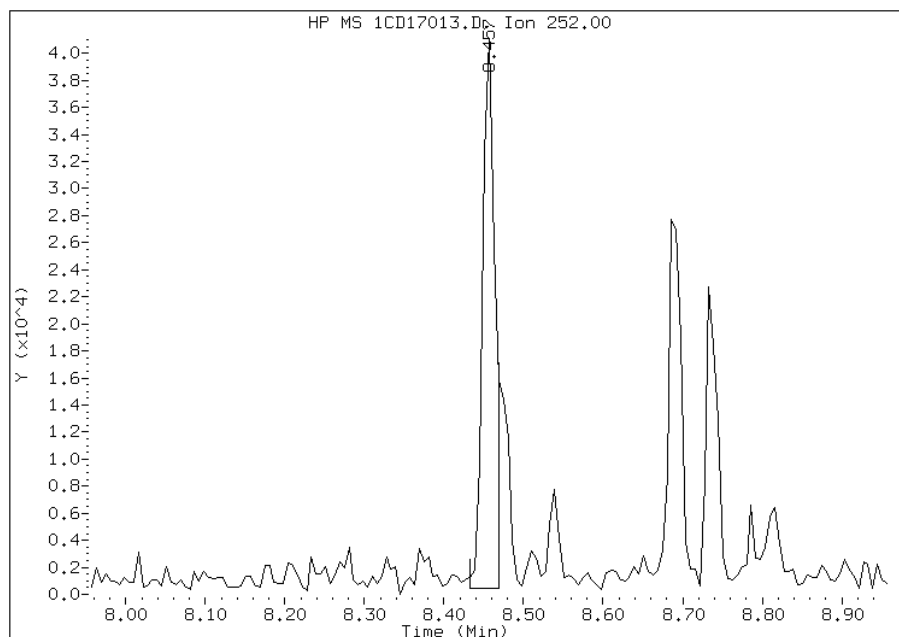
## Processing Integration Results

RT: 8.46  
Response: 54285  
Amount: 5  
Conc: 381



## Manual Integration Results

RT: 8.46  
Response: 43888  
Amount: 4  
Conc: 308



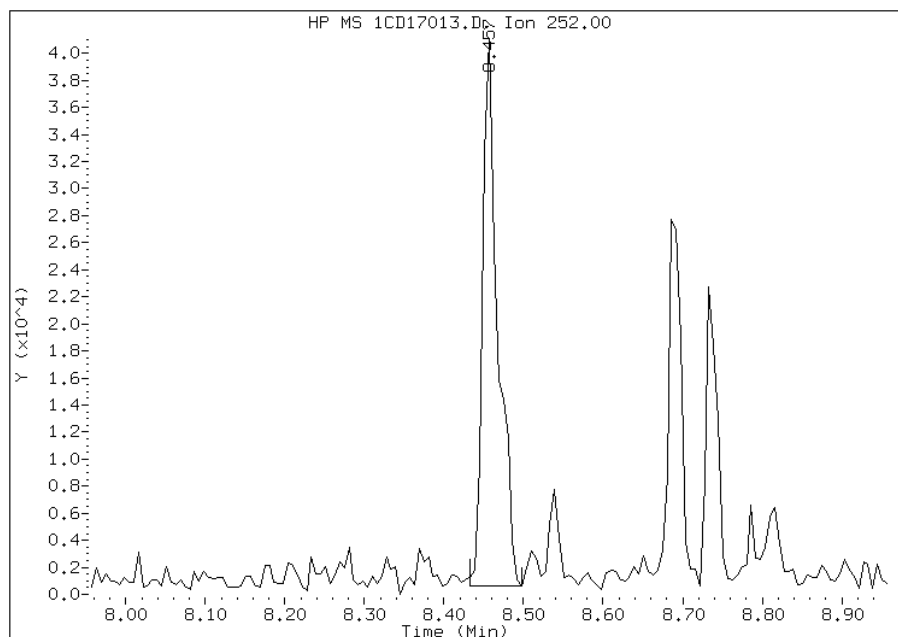
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:52  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD17013.D  
Inj. Date and Time: 17-APR-2013 13:21  
Instrument ID: BSMC5973.i  
Client ID: CV01088A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

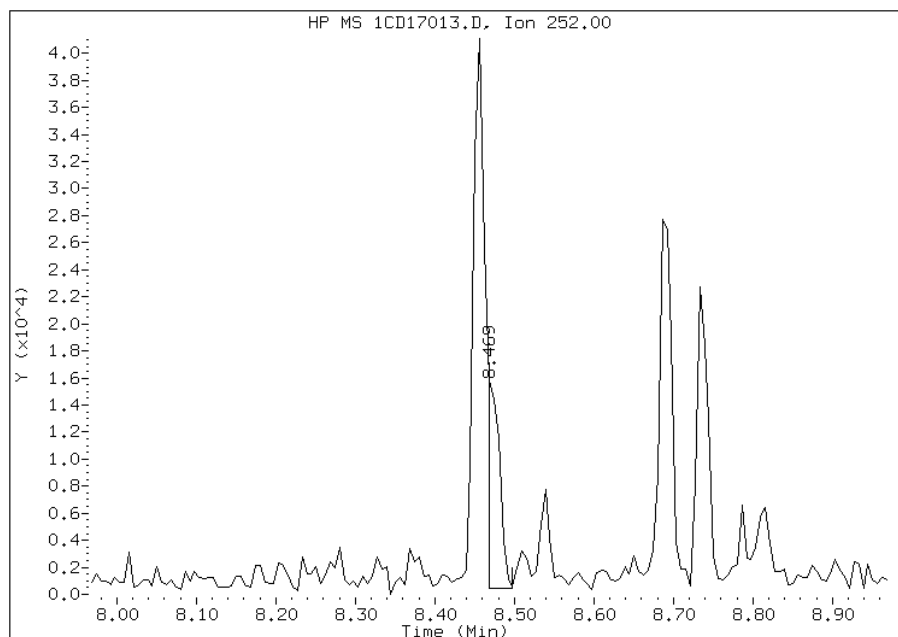
## Processing Integration Results

RT: 8.46  
Response: 53414  
Amount: 4  
Conc: 332



## Manual Integration Results

RT: 8.47  
Response: 15862  
Amount: 1  
Conc: 98



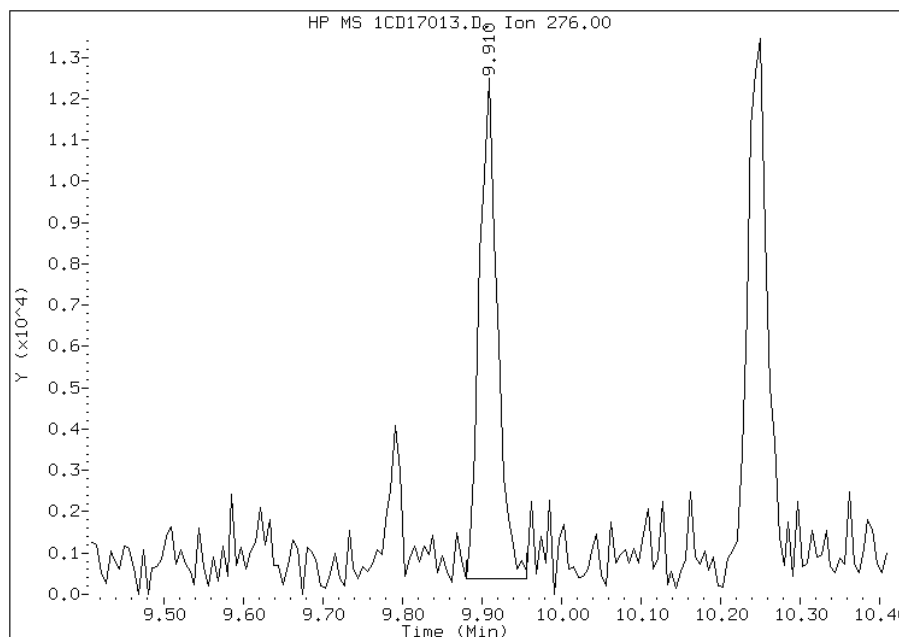
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:52  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17013.D  
Inj. Date and Time: 17-APR-2013 13:21  
Instrument ID: BSMC5973.i  
Client ID: CV01088A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

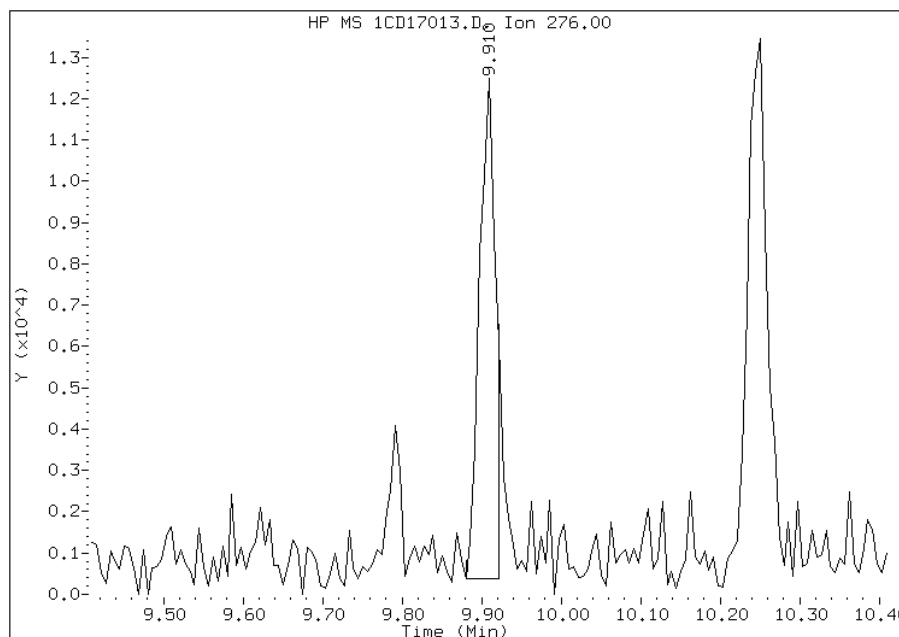
## Processing Integration Results

RT: 9.91  
Response: 18866  
Amount: 2  
Conc: 182



## Manual Integration Results

RT: 9.91  
Response: 16857  
Amount: 2  
Conc: 168



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:52  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV01088B-GS Lab Sample ID: 680-89275-9  
 Matrix: Solid Lab File ID: 1CD17014.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 09:30  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.04(g) Date Analyzed: 04/17/2013 13:39  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 39.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	66	U	66	8.2
120-12-7	Anthracene	12	J	14	6.9
56-55-3	Benzo[a]anthracene	39		13	6.4
50-32-8	Benzo[a]pyrene	33		17	8.5
205-99-2	Benzo[b]fluoranthene	76		20	10
191-24-2	Benzo[g,h,i]perylene	36		33	7.2
207-08-9	Benzo[k]fluoranthene	24		13	5.9
218-01-9	Chrysene	52		15	7.4
53-70-3	Dibenz(a,h)anthracene	33	U	33	6.7
206-44-0	Fluoranthene	41		33	6.6
86-73-7	Fluorene	33	U	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	110		33	12
90-12-0	1-Methylnaphthalene	23	J	66	7.2
91-57-6	2-Methylnaphthalene	73		66	12
91-20-3	Naphthalene	38	J	66	7.2
85-01-8	Phenanthrene	40		13	6.4
129-00-0	Pyrene	36		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17014.D  
 Lab Smp Id: 680-89275-A-9-A Client Smp ID: CV01088B-GS  
 Inj Date : 17-APR-2013 13:39  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-9-a  
 Misc Info : 680-89275-A-9-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 14  
 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	39.156	% 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		3.668	3.663 (1.000)		336162	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.751 (1.000)		235415	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698 (1.000)		424236	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945 (1.043)		32932	5.37737	587.6294
* 18 Chrysene-d12	240		7.633	7.627 (1.000)		466093	40.0000	
* 23 Perylene-d12	264		8.786	8.780 (1.000)		425287	40.0000	
2 Naphthalene	128		3.680	3.680 (1.003)		3174	0.34929	38.1698(Q)
3 2-Methylnaphthalene	142		4.104	4.104 (1.119)		2398	0.66730	72.9210
4 1-Methylnaphthalene	142		4.168	4.168 (1.136)		1245	0.21449	23.4392(QH)
11 Phenanthrene	178		5.710	5.709 (1.002)		4510	0.36967	40.3964
12 Anthracene	178		5.745	5.745 (1.008)		1345	0.10921	11.9339
15 Fluoranthene	202		6.539	6.545 (1.148)		5157	0.37472	40.9486
16 Pyrene	202		6.709	6.709 (0.879)		4367	0.32934	35.9896
17 Benzo(a)anthracene	228		7.621	7.621 (0.998)		4686	0.35553	38.8520



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	7.645	7.651	(1.002)	6169	0.47314	51.7035
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.963)	7450	0.69356	75.7910(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	2638	0.21703	23.7170(QM)
22 Benzo(a)pyrene	252	8.739	8.733	(0.995)	3327	0.29964	32.7436
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903	(1.128)	3746	0.97900	106.9831(M)
26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	3443	0.33082	36.1518(QM)

QC Flag Legend

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

Data File: 1CD17014.D

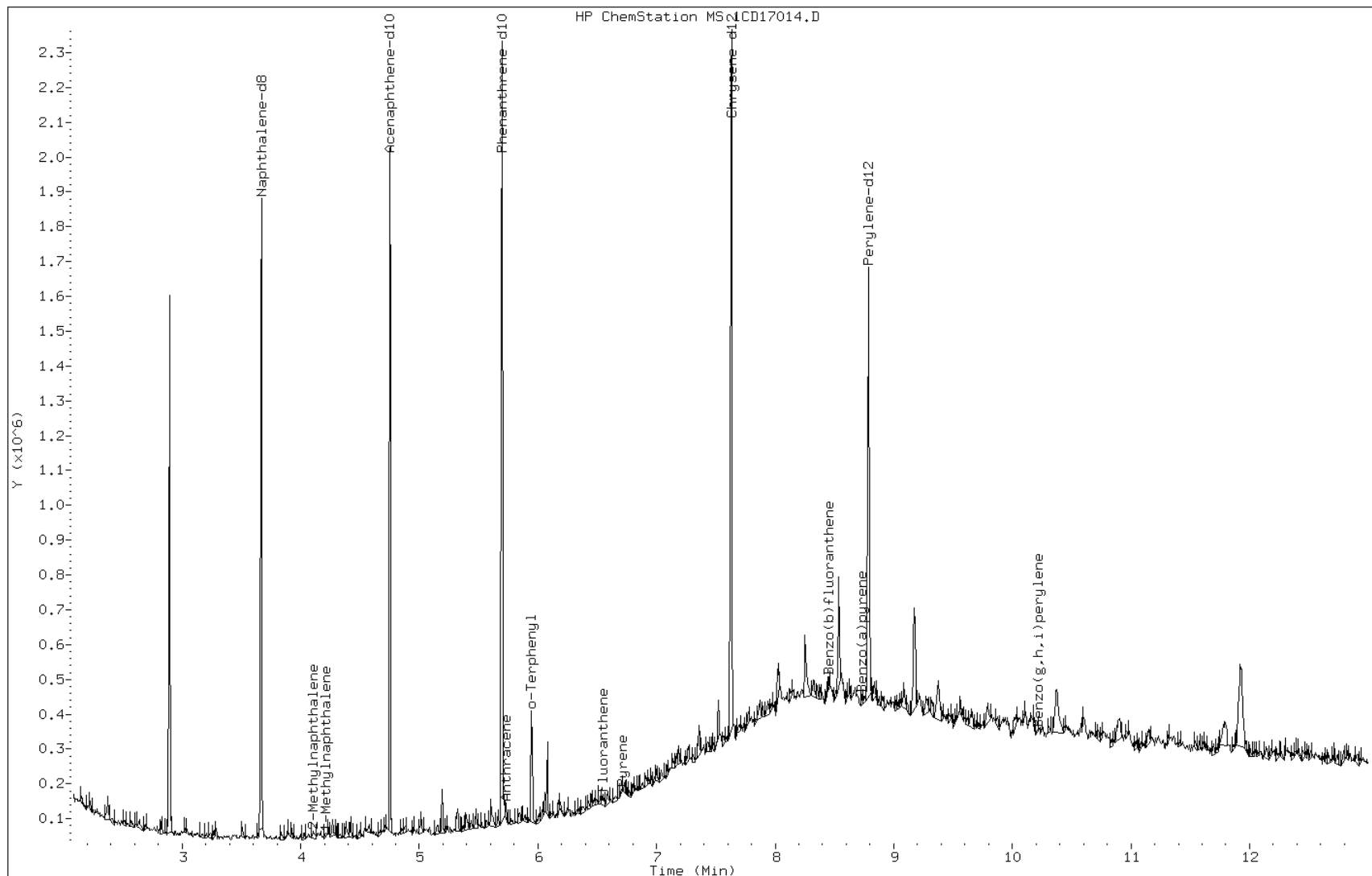
Date: 17-APR-2013 13:39

Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

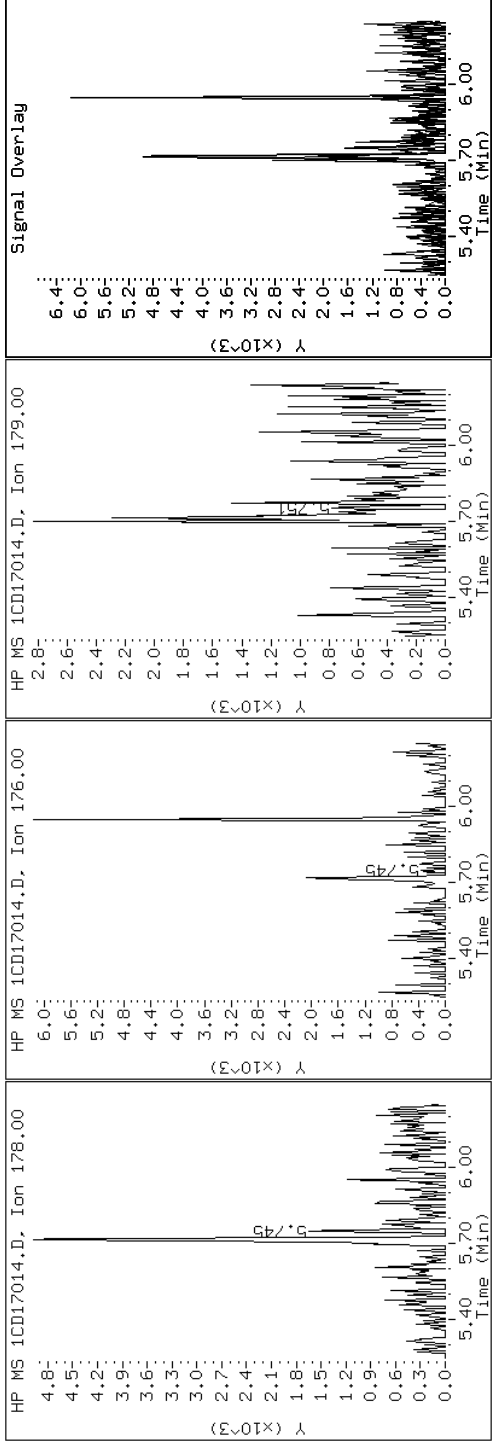
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

12 Anthracene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

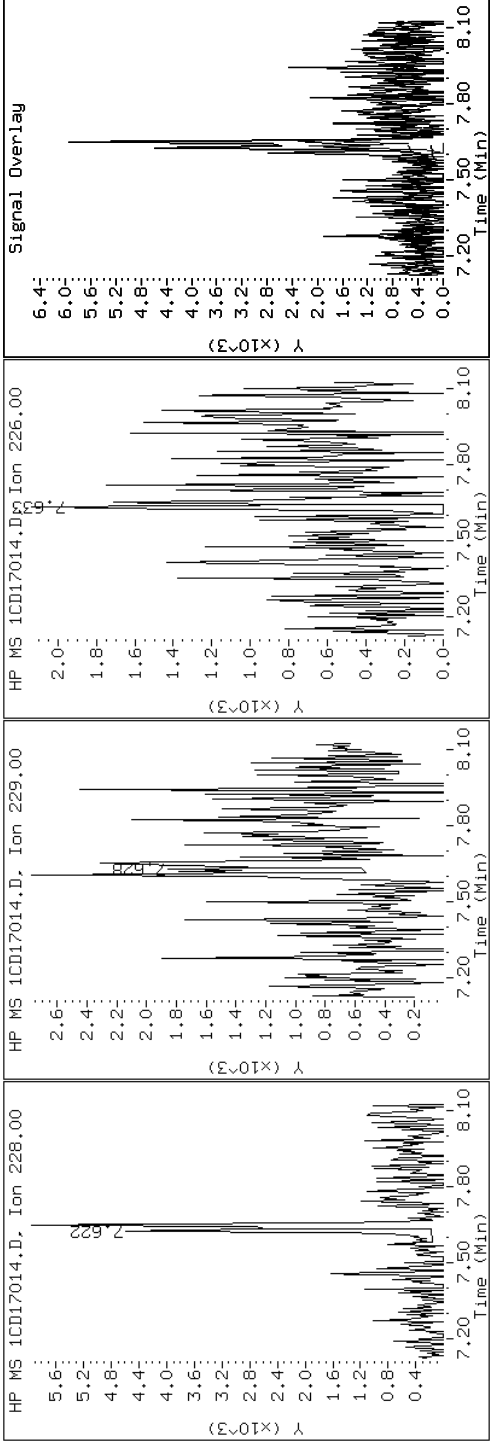
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

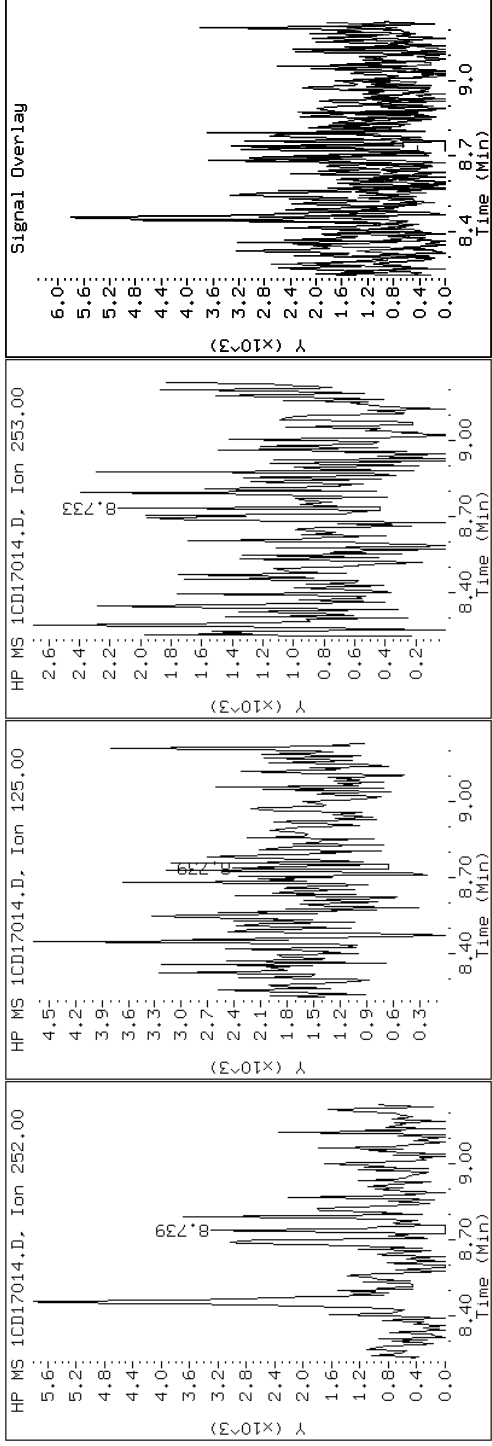
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

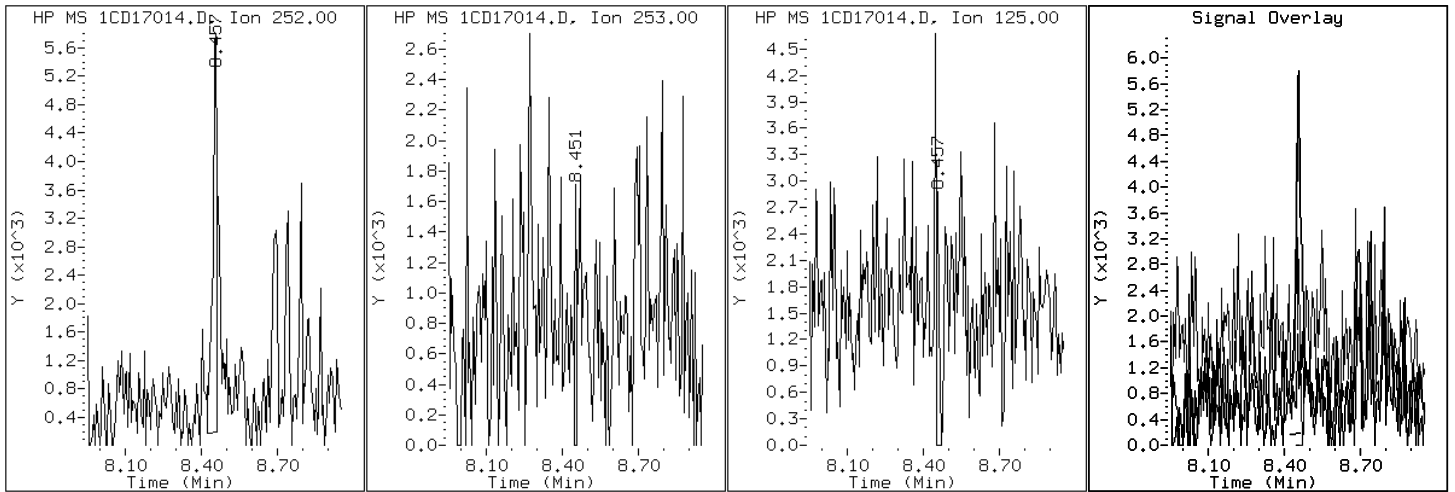
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

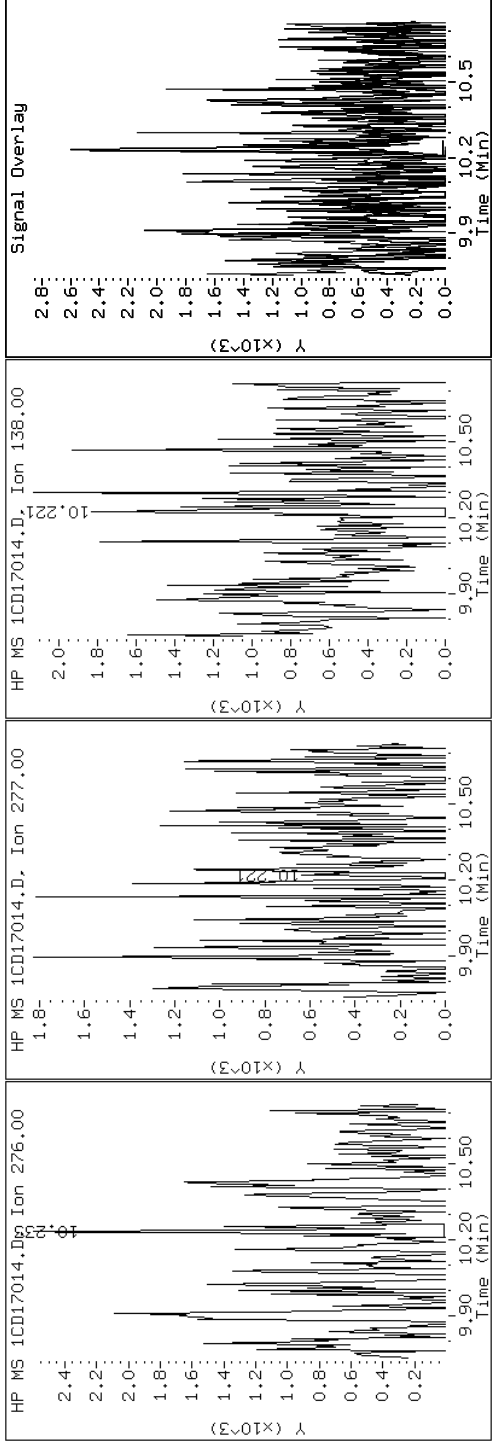
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

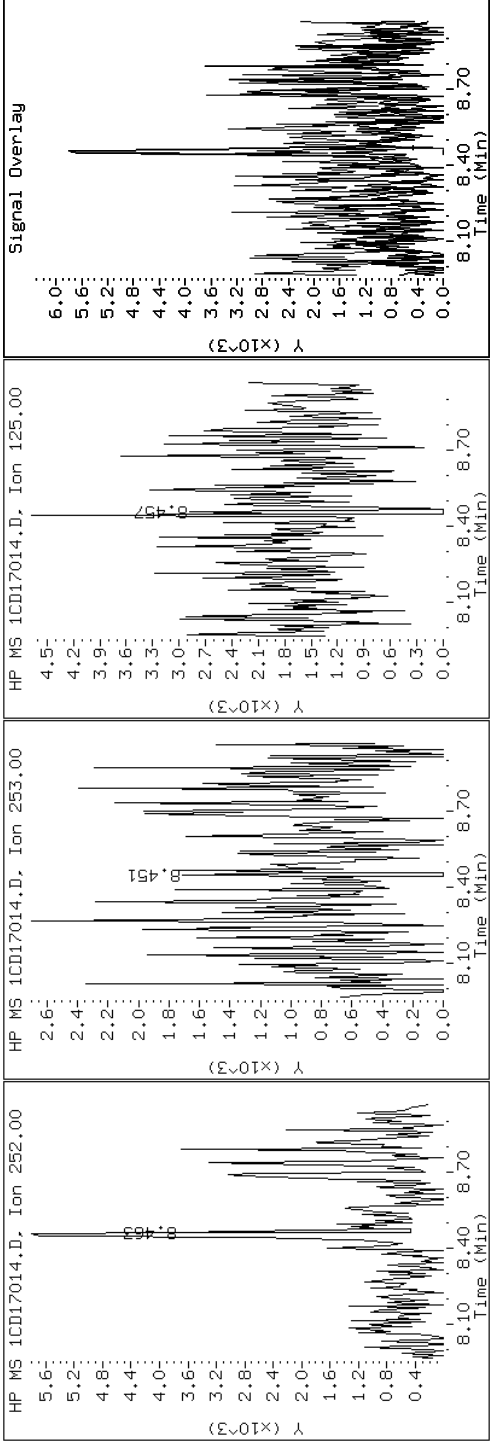
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CD17014.D

Date: 17-APR-2013 13:39

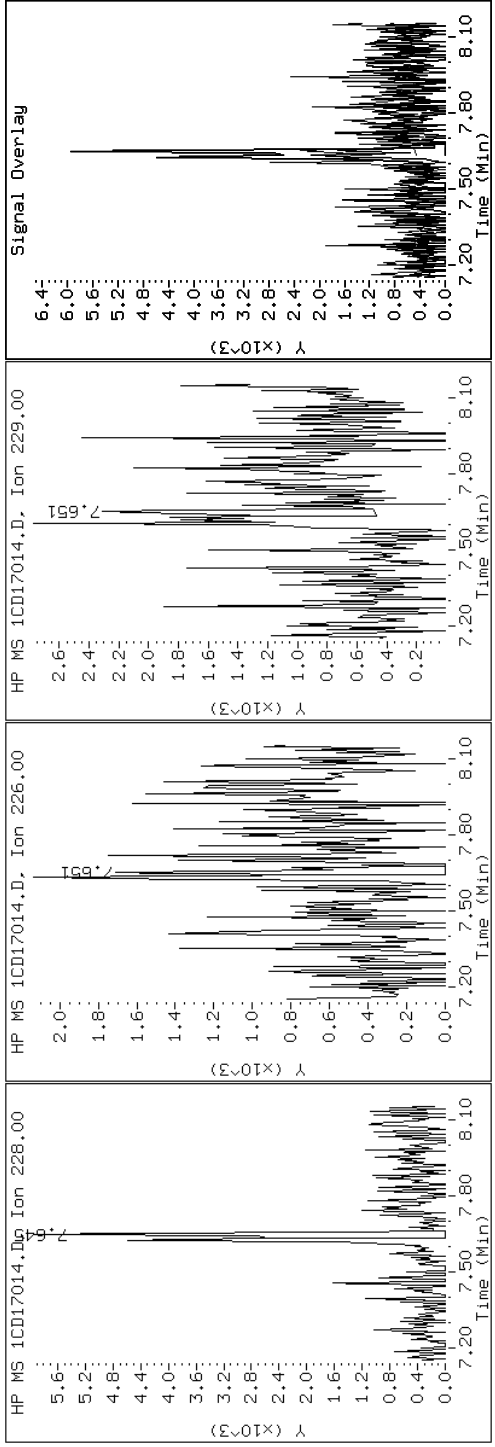
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

19 Chrysene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

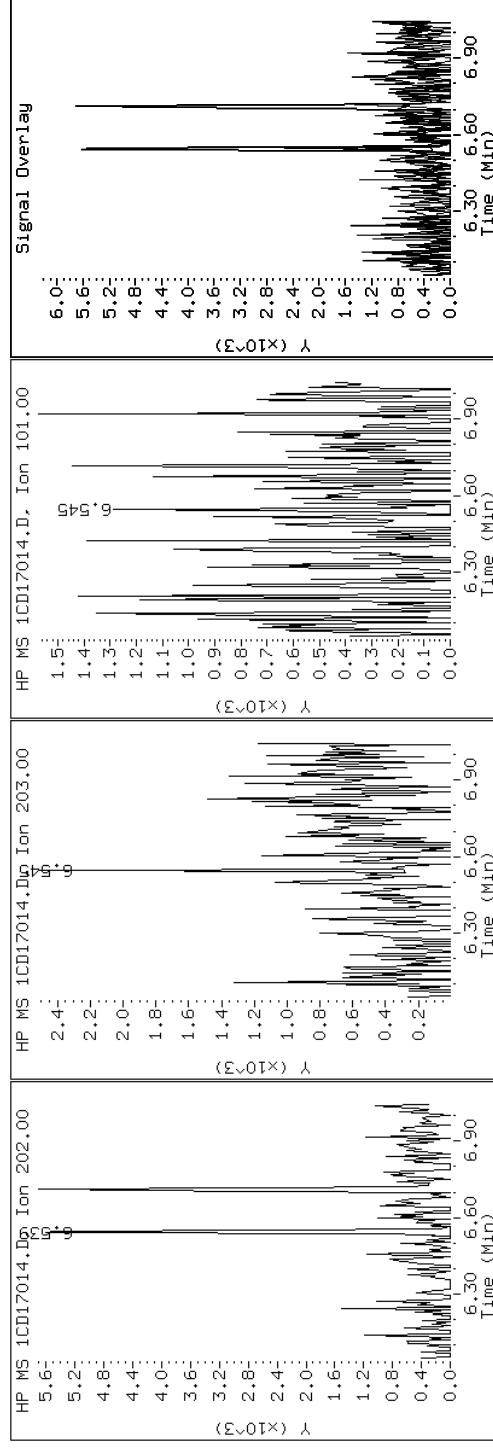
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

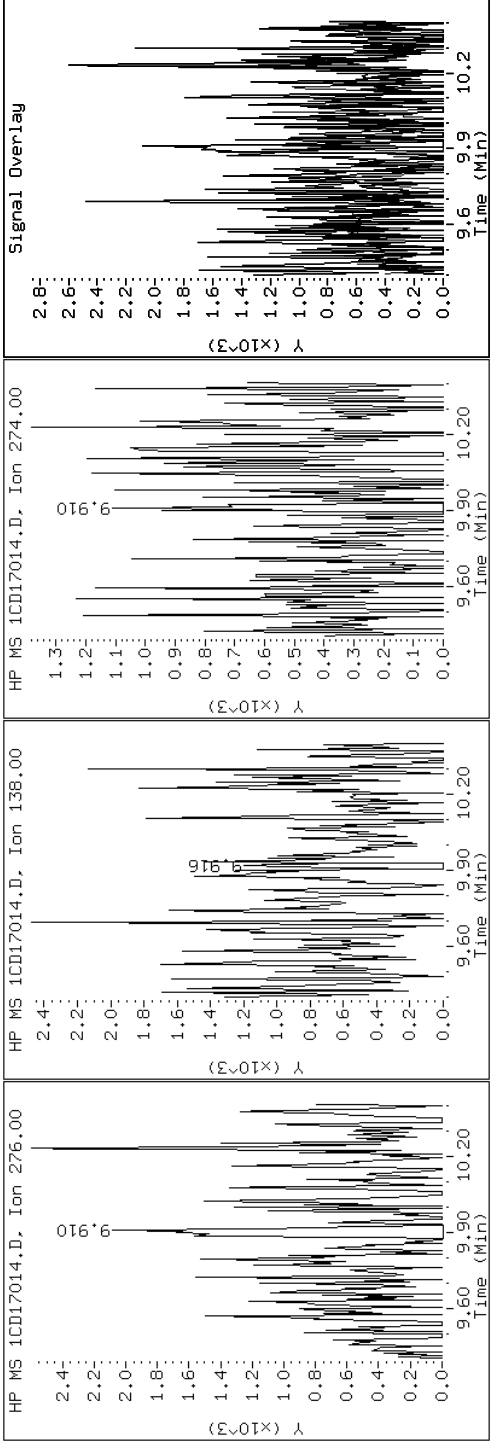
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

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



Data File: 1CDI7014.D

Date: 17-APR-2013 13:39

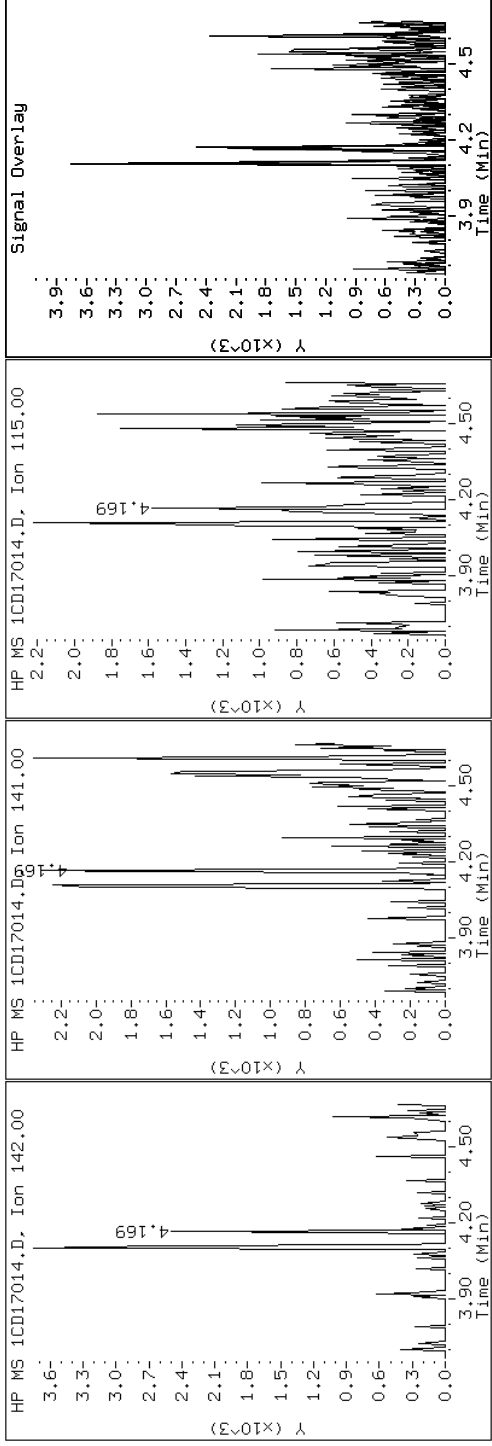
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

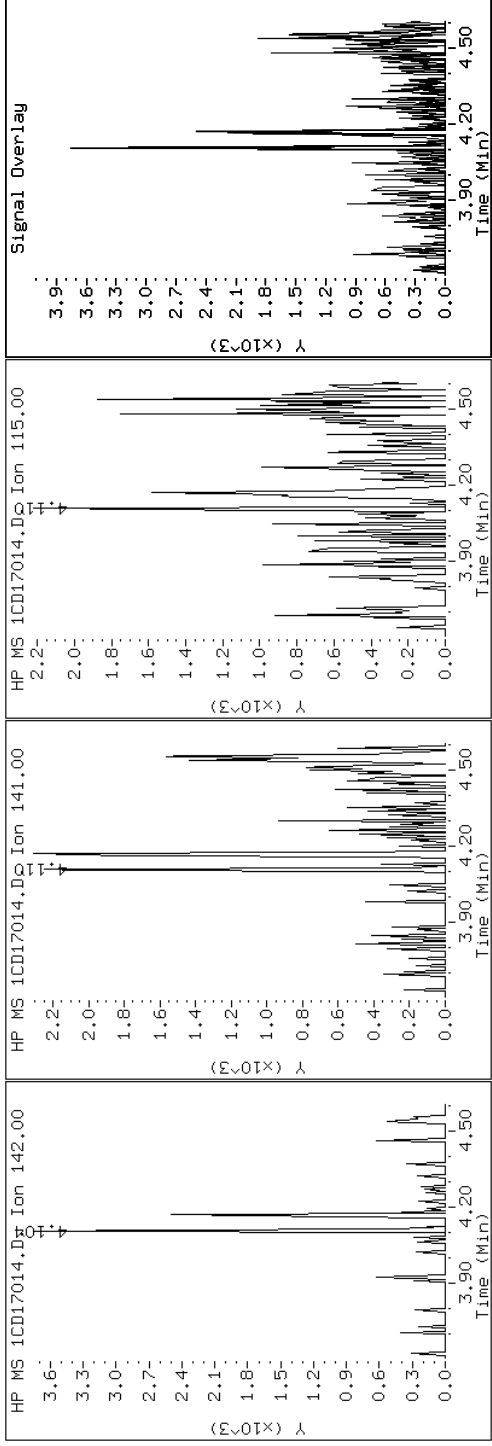
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CDI7014.D

Date: 17-APR-2013 13:39

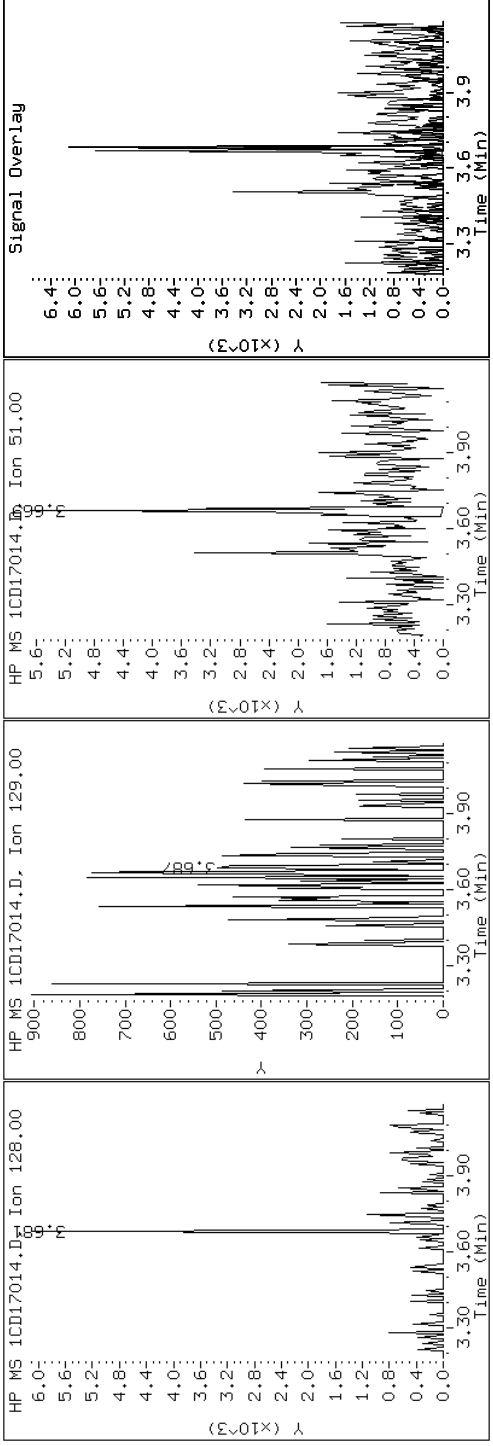
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

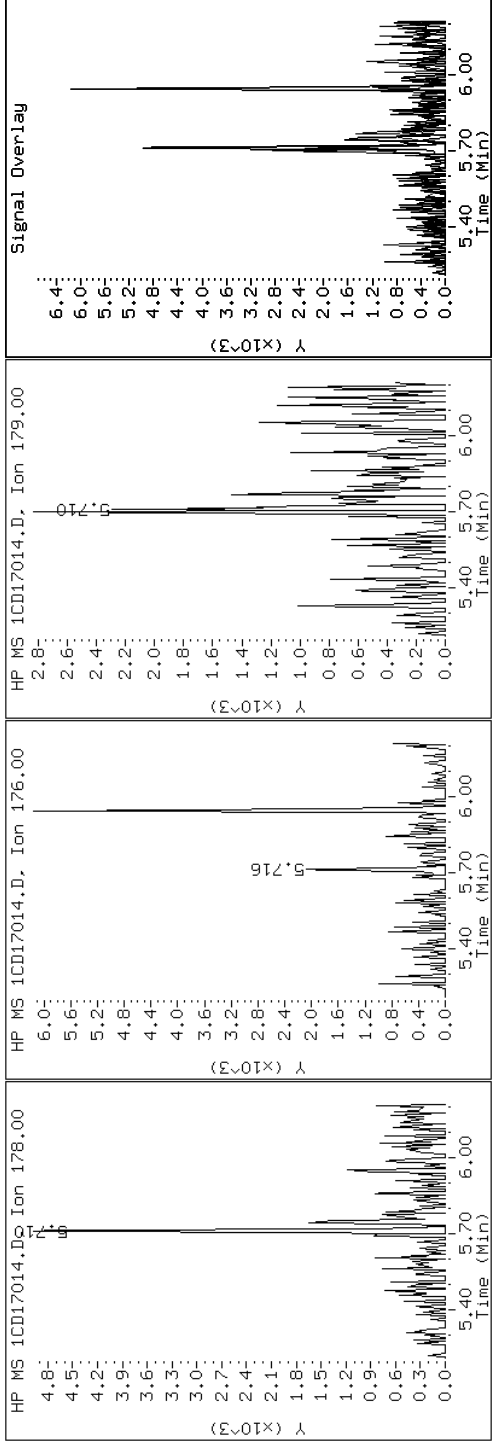
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17014.D

Date: 17-APR-2013 13:39

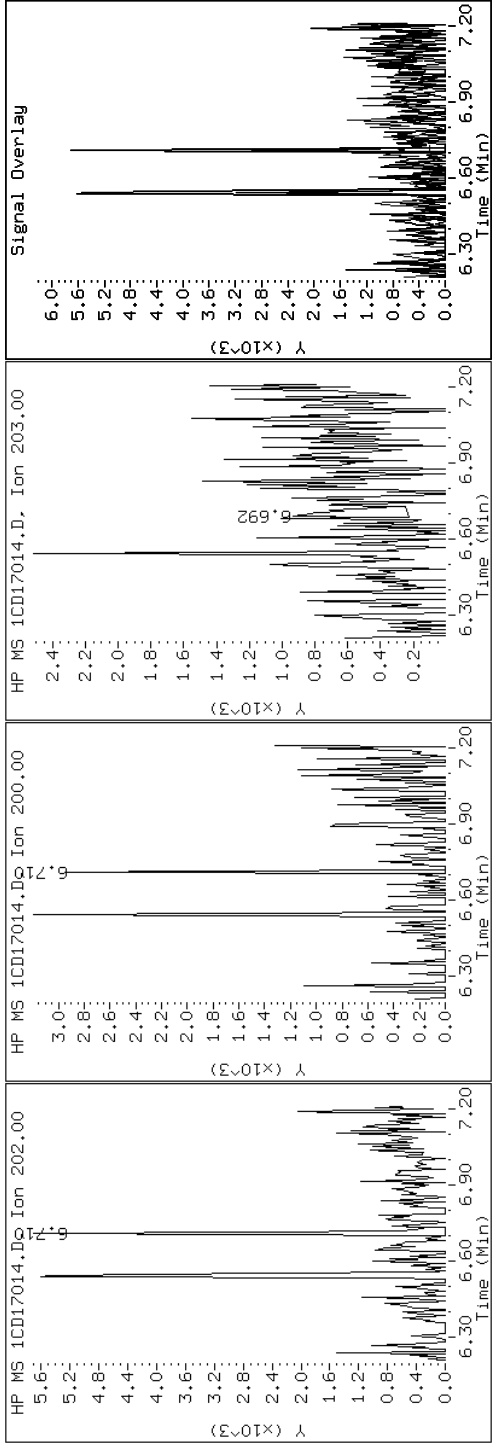
Client ID: CV01088B-GS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-9-a

Operator: SCC

16 Pyrene



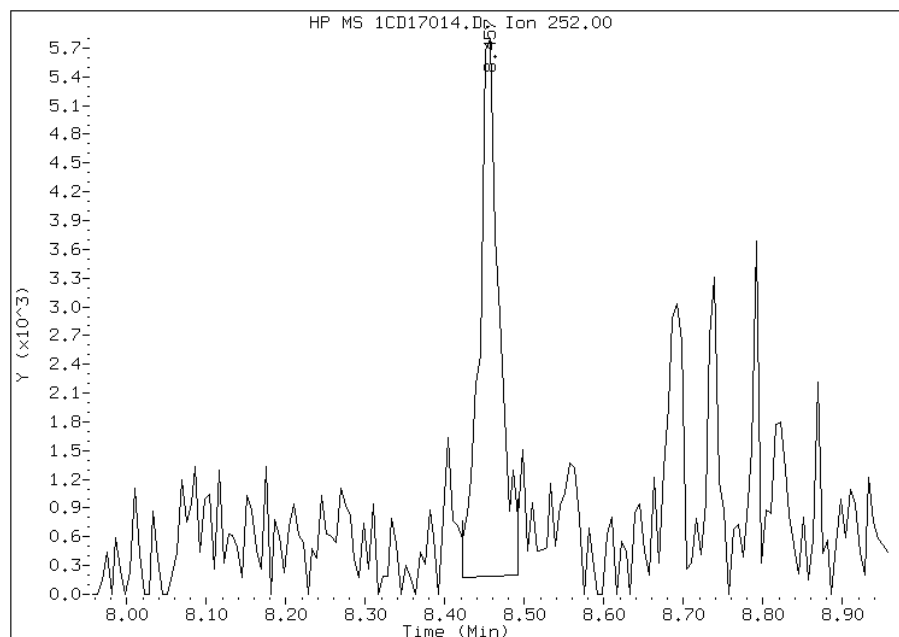


# Manual Integration Report

Data File: 1CD17014.D  
Inj. Date and Time: 17-APR-2013 13:39  
Instrument ID: BSMC5973.i  
Client ID: CV01088B-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

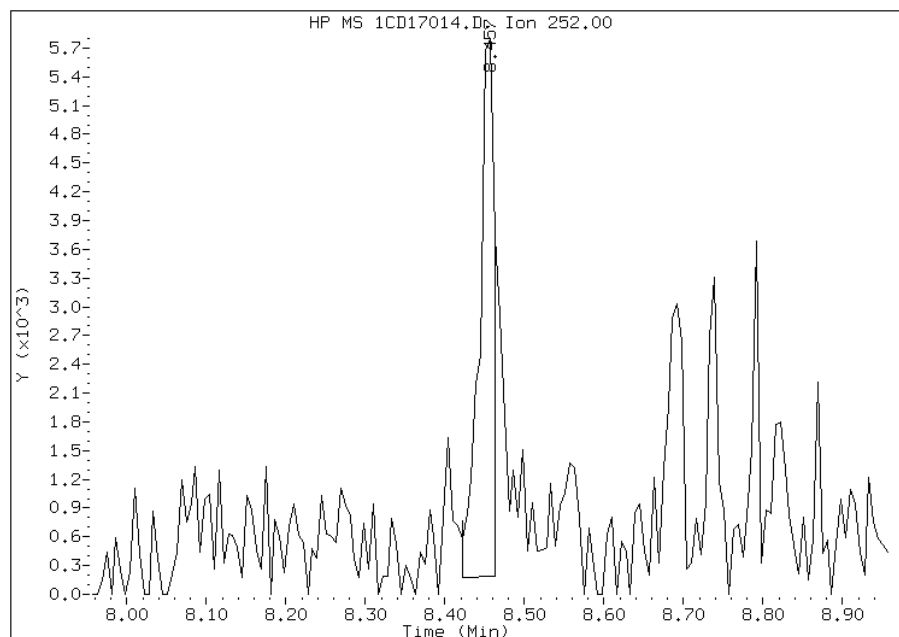
## Processing Integration Results

RT: 8.46  
Response: 9836  
Amount: 1  
Conc: 100



## Manual Integration Results

RT: 8.46  
Response: 7450  
Amount: 1  
Conc: 76



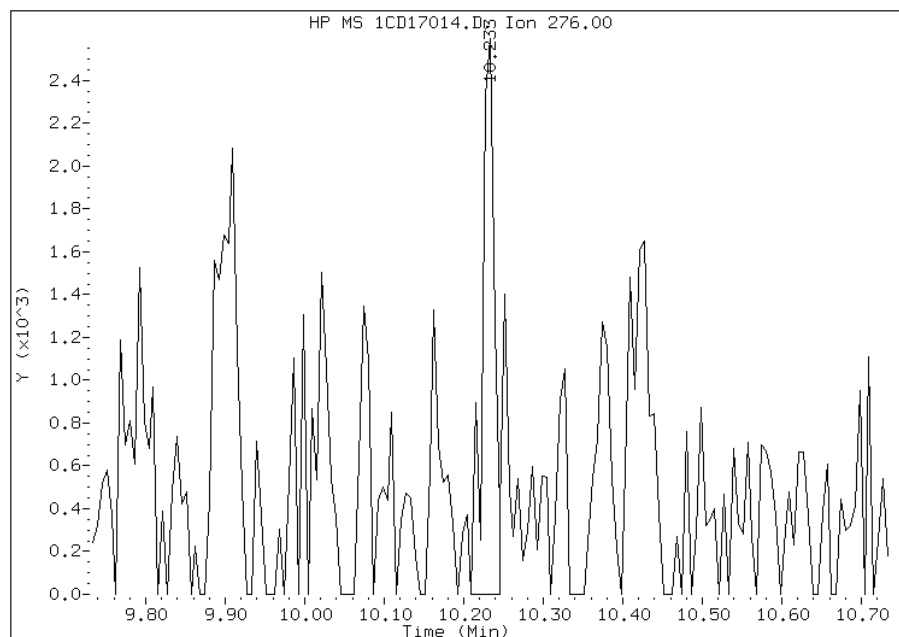
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:53  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD17014.D  
Inj. Date and Time: 17-APR-2013 13:39  
Instrument ID: BSMC5973.i  
Client ID: CV01088B-GS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/18/2013

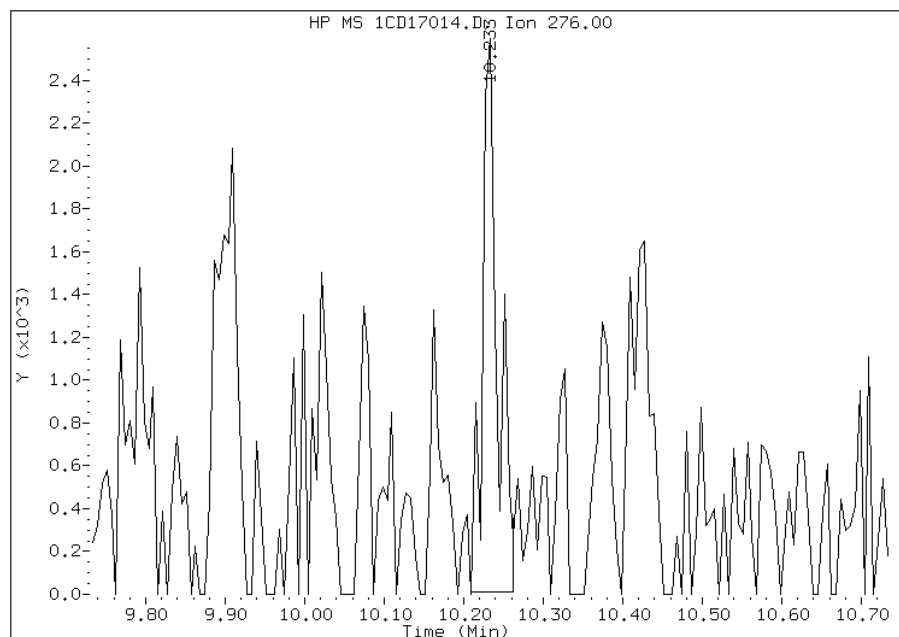
## Processing Integration Results

RT: 10.23  
Response: 2726  
Amount: 0  
Conc: 29



## Manual Integration Results

RT: 10.23  
Response: 3443  
Amount: 0  
Conc: 36



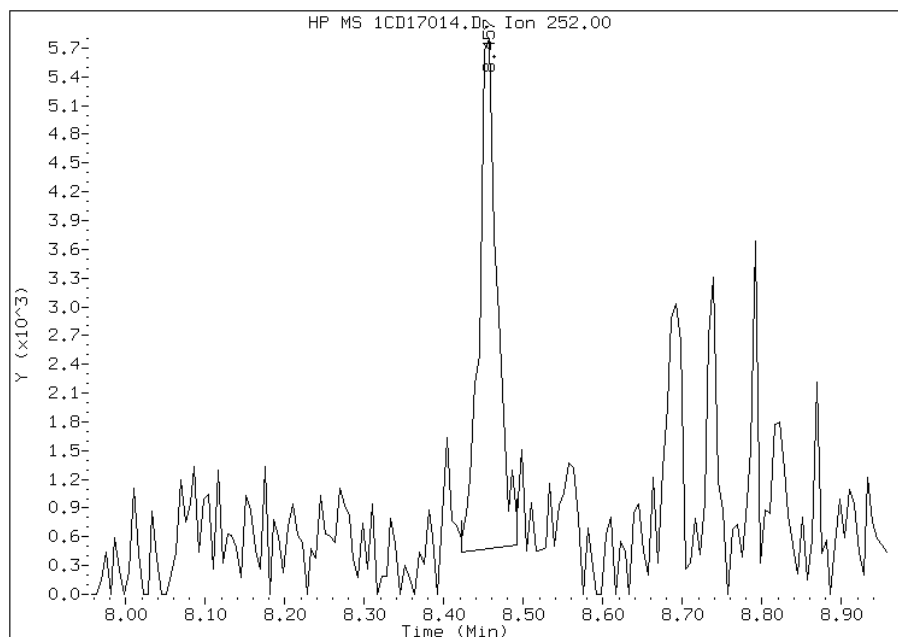
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:54  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17014.D  
Inj. Date and Time: 17-APR-2013 13:39  
Instrument ID: BSMC5973.i  
Client ID: CV01088B-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

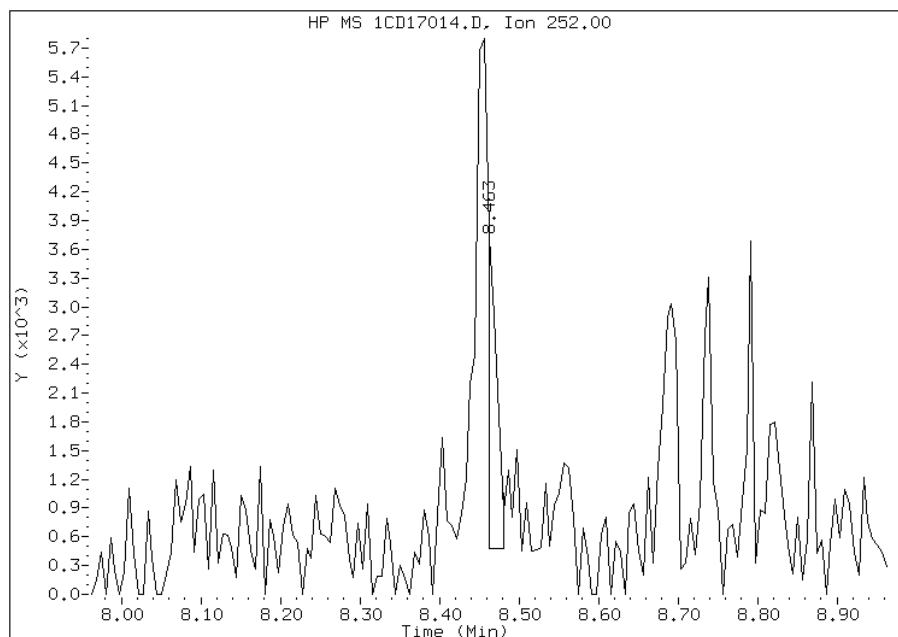
## Processing Integration Results

RT: 8.46  
Response: 8483  
Amount: 1  
Conc: 76



## Manual Integration Results

RT: 8.46  
Response: 2638  
Amount: 0  
Conc: 24



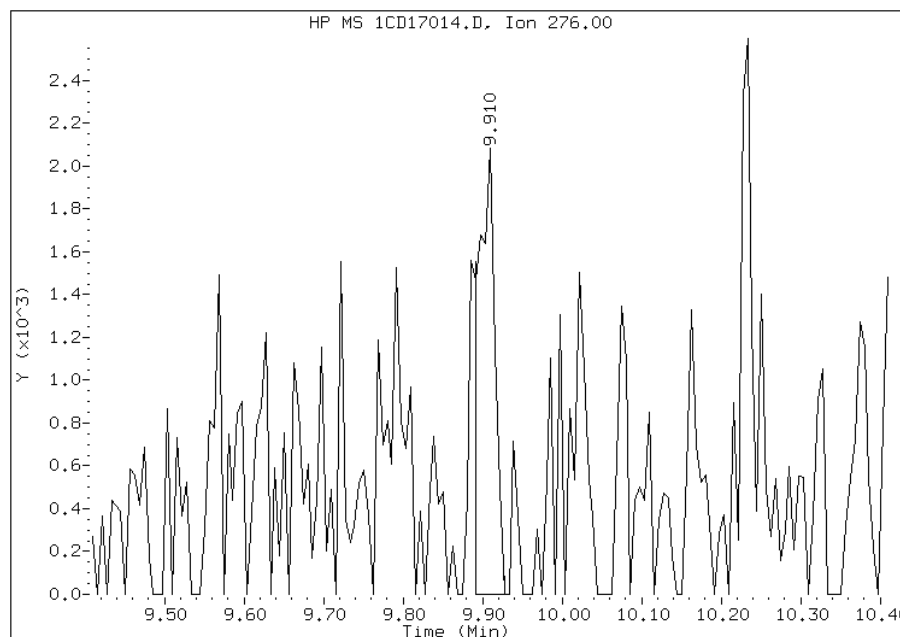
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:54  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17014.D  
Inj. Date and Time: 17-APR-2013 13:39  
Instrument ID: BSMC5973.i  
Client ID: CV01088B-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

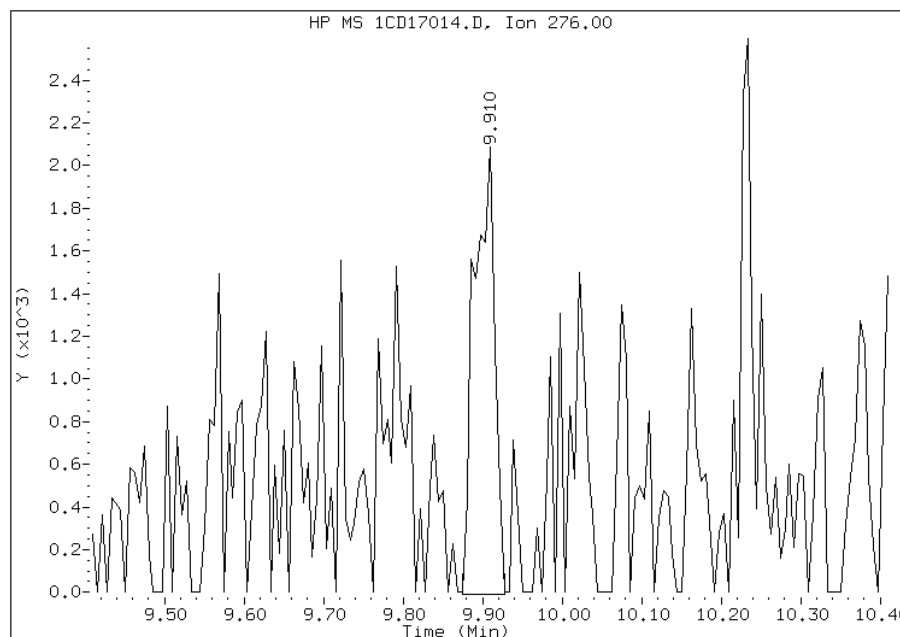
## Processing Integration Results

RT: 9.91  
Response: 3005  
Amount: 1  
Conc: 100



## Manual Integration Results

RT: 9.91  
Response: 3746  
Amount: 1  
Conc: 107



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:54  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1090A-CS Lab Sample ID: 680-89275-10  
 Matrix: Solid Lab File ID: 1CD17015.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 08:40  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.93(g) Date Analyzed: 04/17/2013 13:58  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 23.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	3700		530	110
208-96-8	Acenaphthylene	850		210	26
120-12-7	Anthracene	5600		44	22
56-55-3	Benzo[a]anthracene	14000		42	21
50-32-8	Benzo[a]pyrene	10000		55	27
191-24-2	Benzo[g,h,i]perylene	6100		110	23
207-08-9	Benzo[k]fluoranthene	8400		42	19
218-01-9	Chrysene	14000		47	24
53-70-3	Dibenz(a,h)anthracene	2400		110	22
86-73-7	Fluorene	4100		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	5200		110	37
90-12-0	1-Methylnaphthalene	1100		210	23
91-57-6	2-Methylnaphthalene	1600		210	37
91-20-3	Naphthalene	3200		210	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17015.D  
 Lab Smp Id: 680-89275-A-10-A Client Smp ID: CV1090A-CS  
 Inj Date : 17-APR-2013 13:58  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-10-a  
 Misc Info : 680-89275-A-10-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 15  
 Dil Factor: 4.00000  
 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	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	23.634	% 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		3.668	3.663	(1.000)	323456	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	225056	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	411814	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	6701	1.67228	586.6885
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	514124	40.0000	
* 23 Perylene-d12	264		8.792	8.780	(1.000)	429294	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	79594	9.10320	3193.6814
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	25420	4.61978	1620.7613
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	17151	3.07089	1077.3622
5 Acenaphthylene	152		4.668	4.663	(0.983)	23203	2.43308	853.6003
7 Acenaphthene	154		4.774	4.774	(1.005)	60968	10.6085	3721.7960
9 Fluorene	166		5.092	5.092	(1.072)	85309	11.6645	4092.2565
11 Phenanthrene	178		5.715	5.709	(1.003)	1642809	142.131	49863.8967(A)
12 Anthracene	178		5.745	5.745	(1.008)	190670	15.9484	5595.1990

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.857	5.851 (1.028)		176432	15.8453	5559.0132
15 Fluoranthene	202	6.551	6.545 (1.150)		1796527	134.477	47178.7600(A)
16 Pyrene	202	6.715	6.709 (0.880)		1190796	81.4148	28562.8012(A)
17 Benzo(a)anthracene	228	7.627	7.621 (0.999)		592612	40.7618	14300.4885
19 Chrysene	228	7.656	7.651 (1.003)		558484	38.8318	13623.3936
20 Benzo(b)fluoranthene	252	8.456	8.450 (0.962)		565991	52.1994	18313.1400(AM)
21 Benzo(k)fluoranthene	252	8.474	8.468 (0.964)		294394	23.9944	8417.9599(M)
22 Benzo(a)pyrene	252	8.739	8.733 (0.994)		330619	29.4982	10348.8703
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903 (1.127)		157020	14.7407	5171.5025(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915 (1.128)		69752	6.79219	2382.9098
26 Benzo(g,h,i)perylene	276	10.250	10.233 (1.166)		181575	17.2840	6063.7401

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1CD17015.D

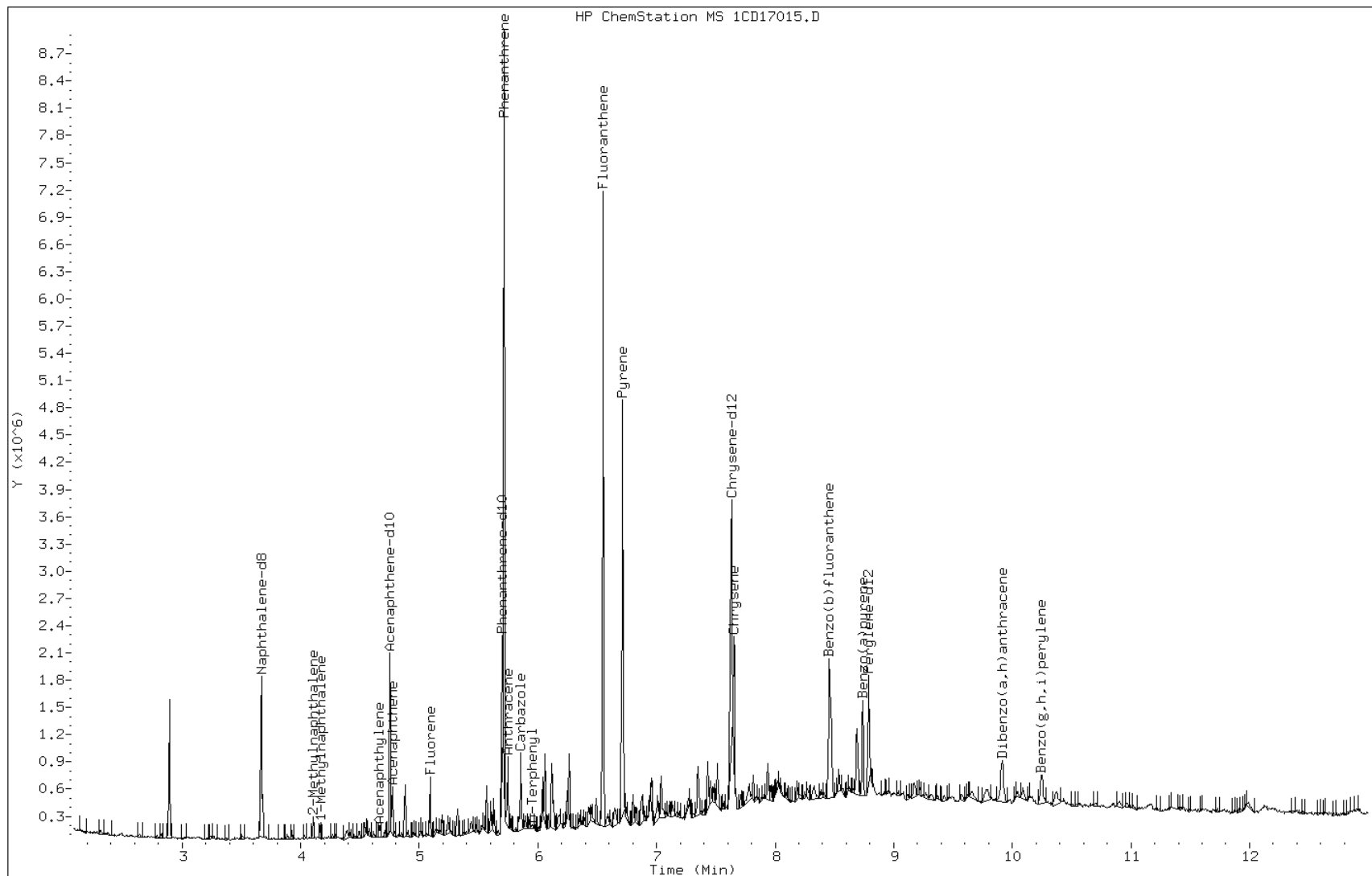
Date: 17-APR-2013 13:58

Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC





Data File: 1CD17015.D

Date: 17-APR-2013 13:58

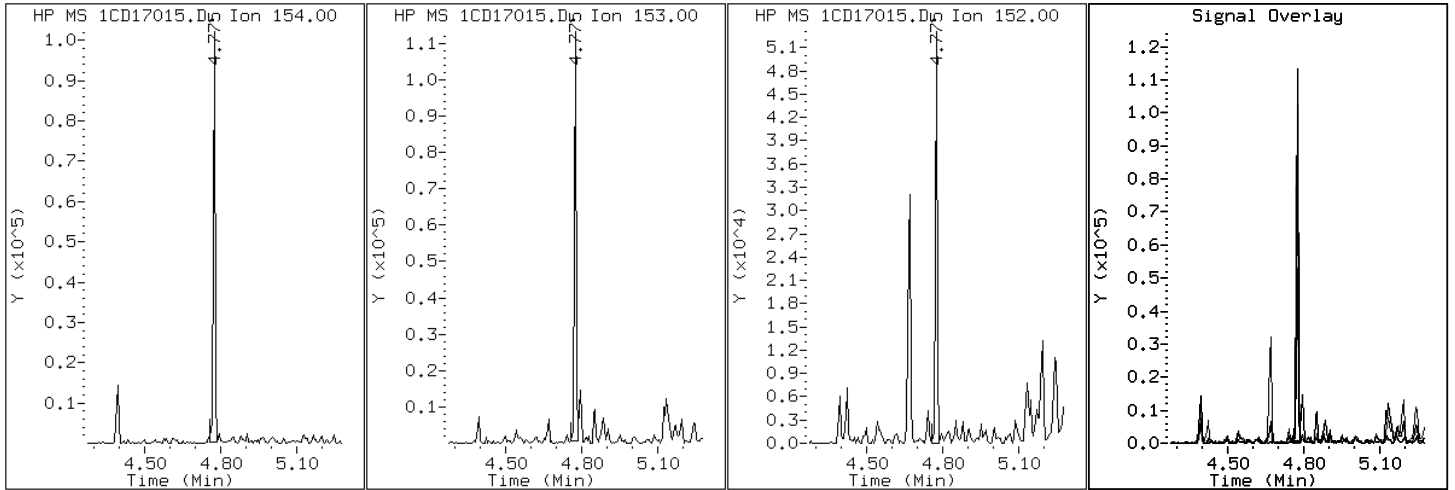
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

7 Acenaphthene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

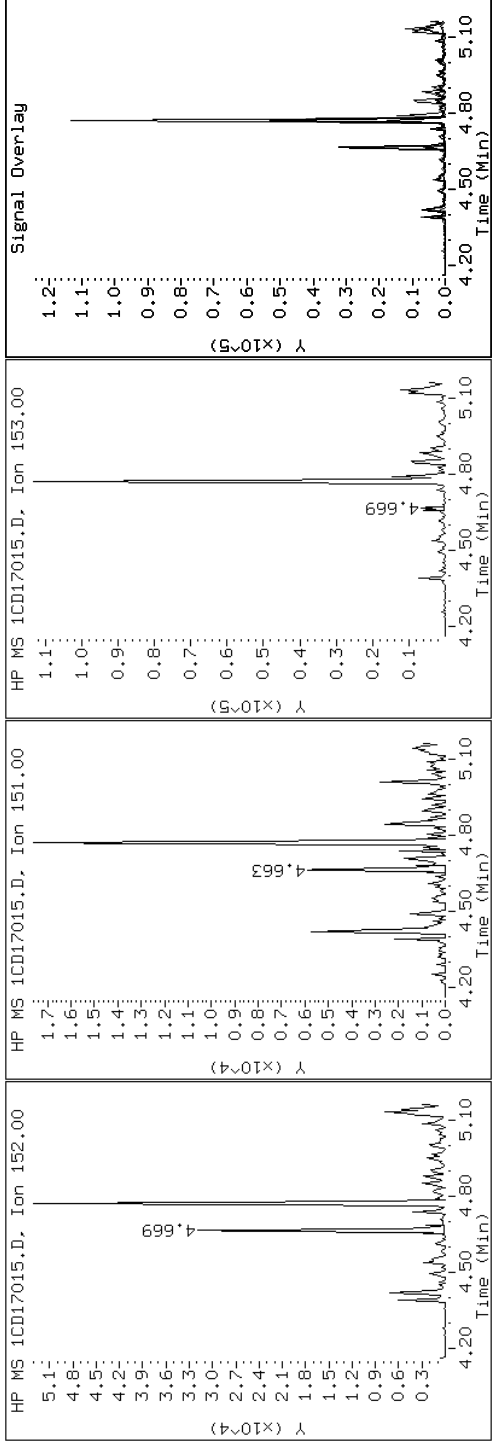
Client ID: CVI090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

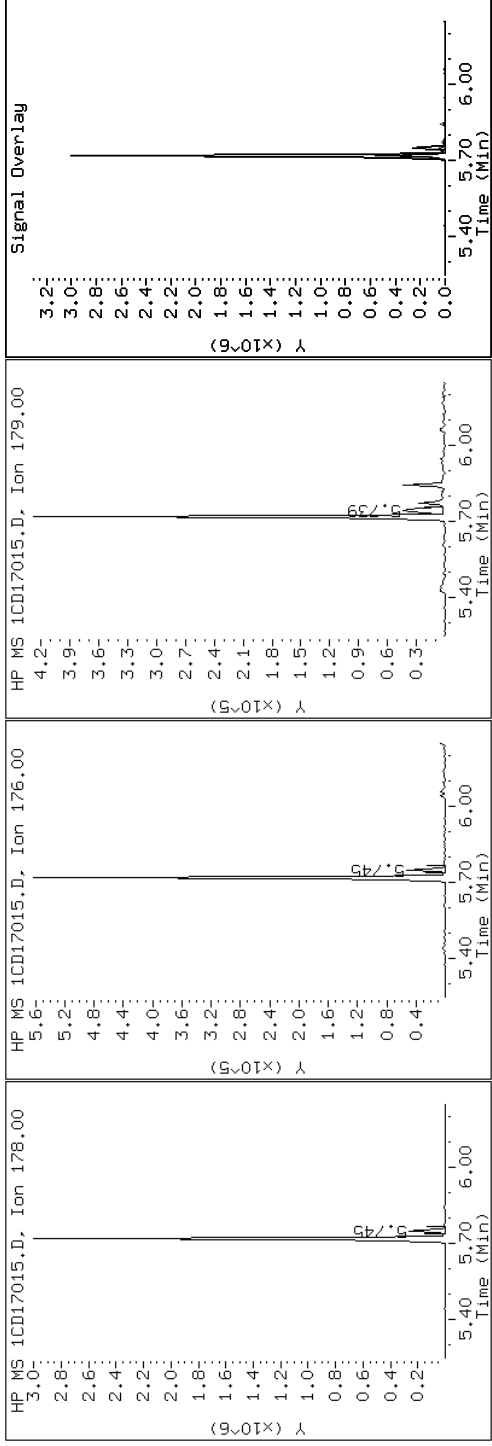
Client ID: CVI090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

12 Anthracene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

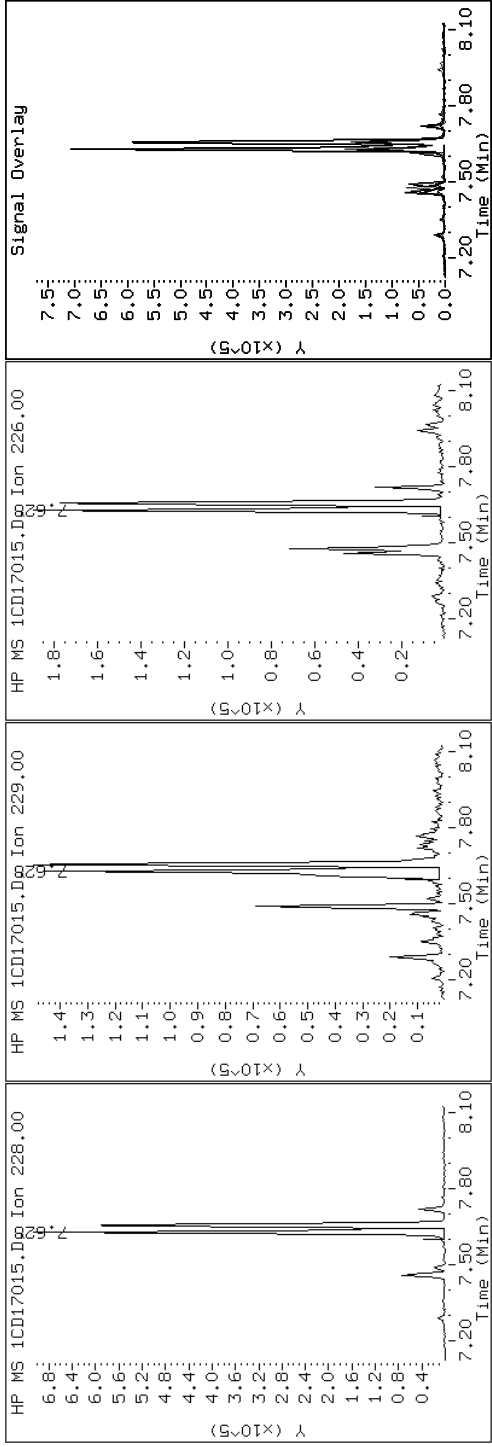
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

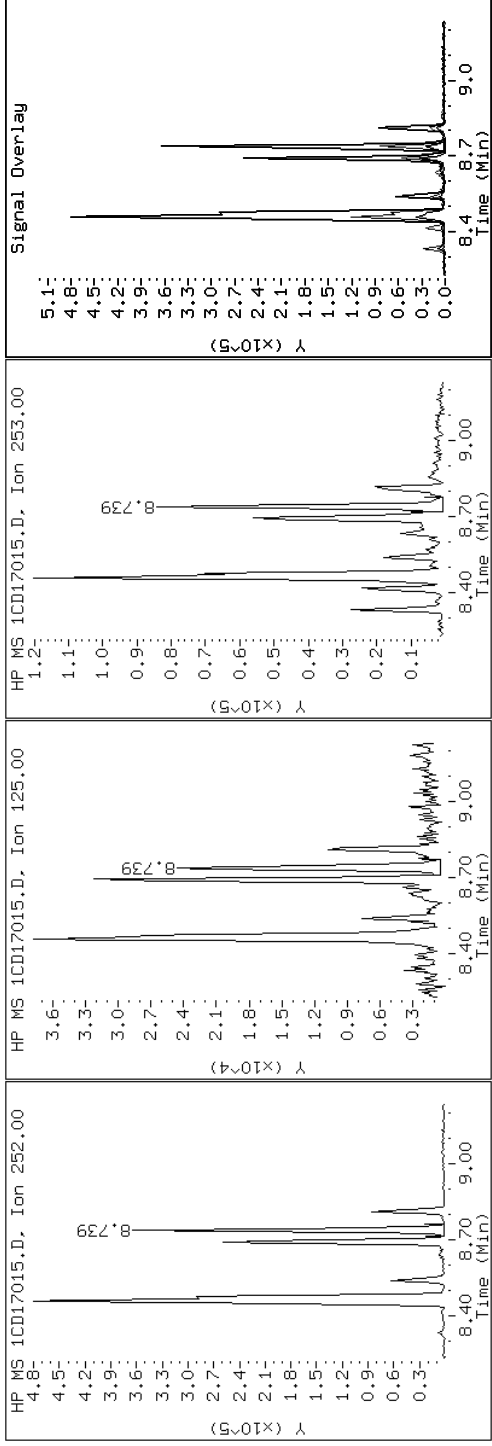
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

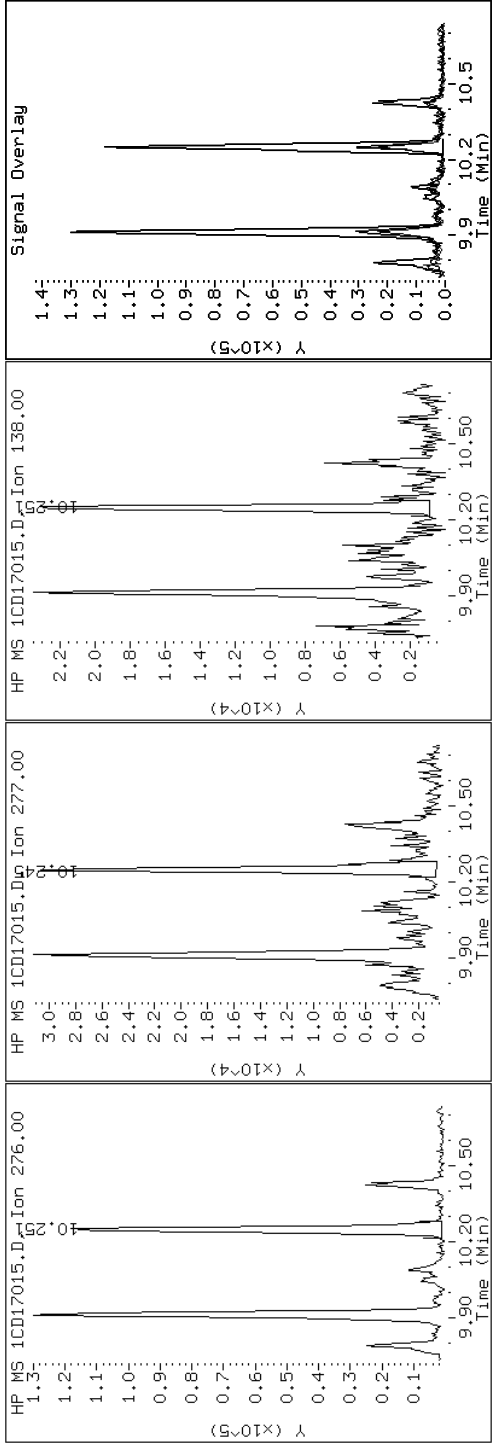
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

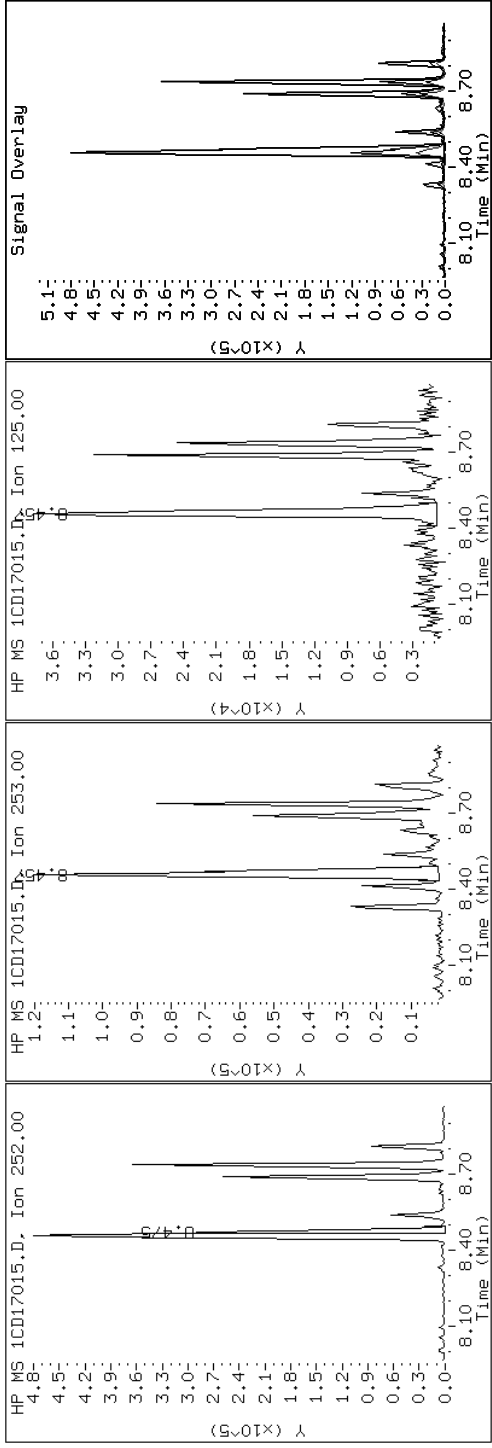
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

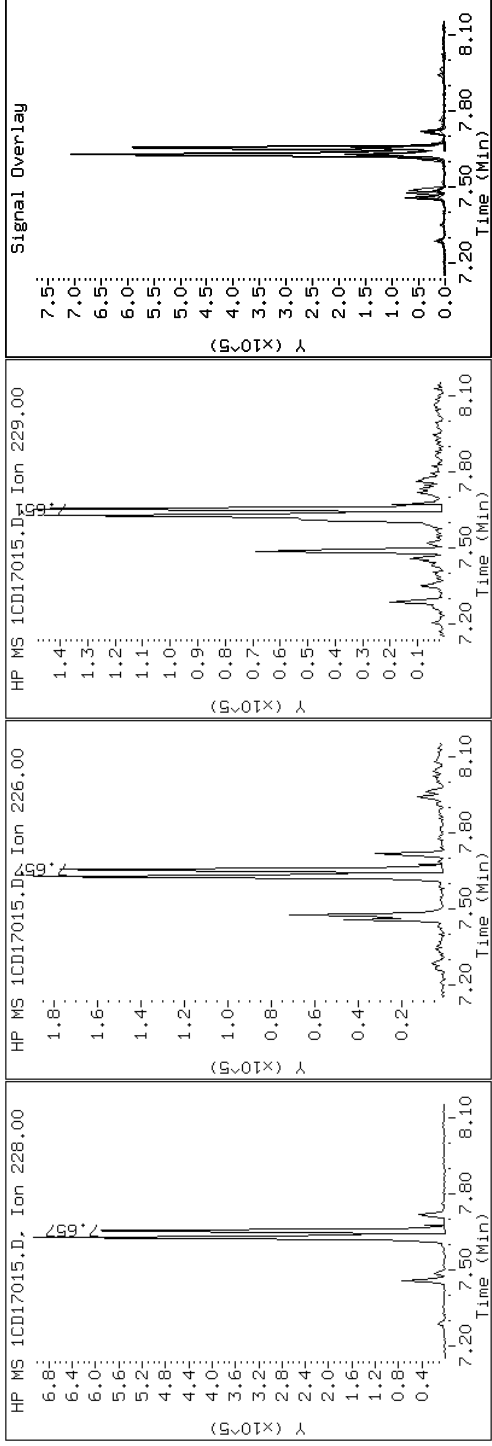
Client ID: CVI090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

19 Chrysene





Data File: 1CD17015.D

Date: 17-APR-2013 13:58

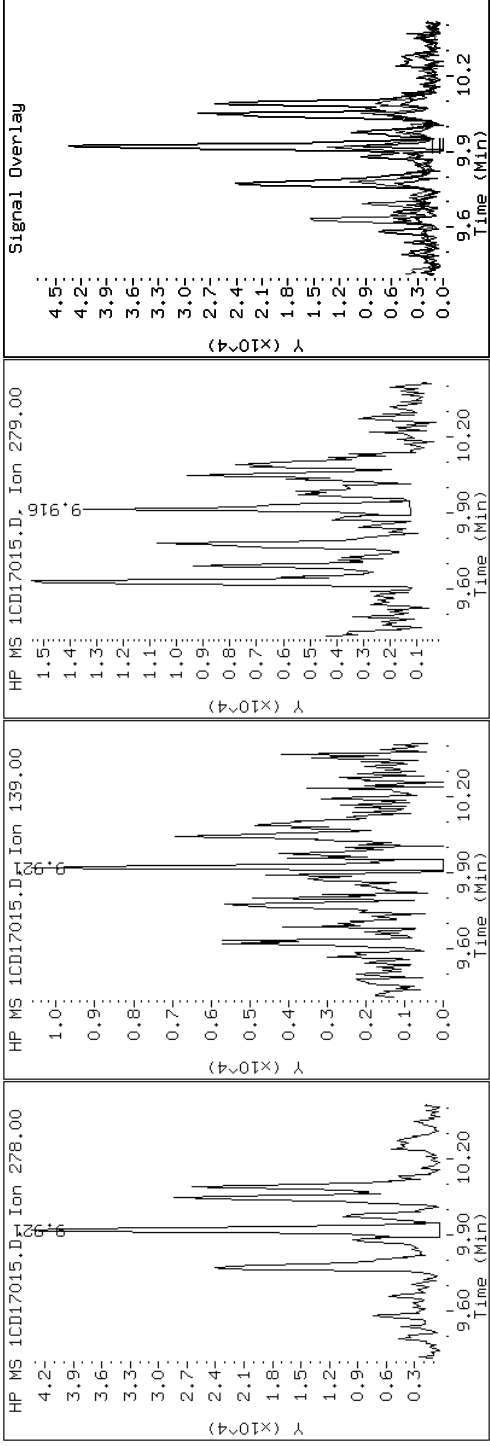
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

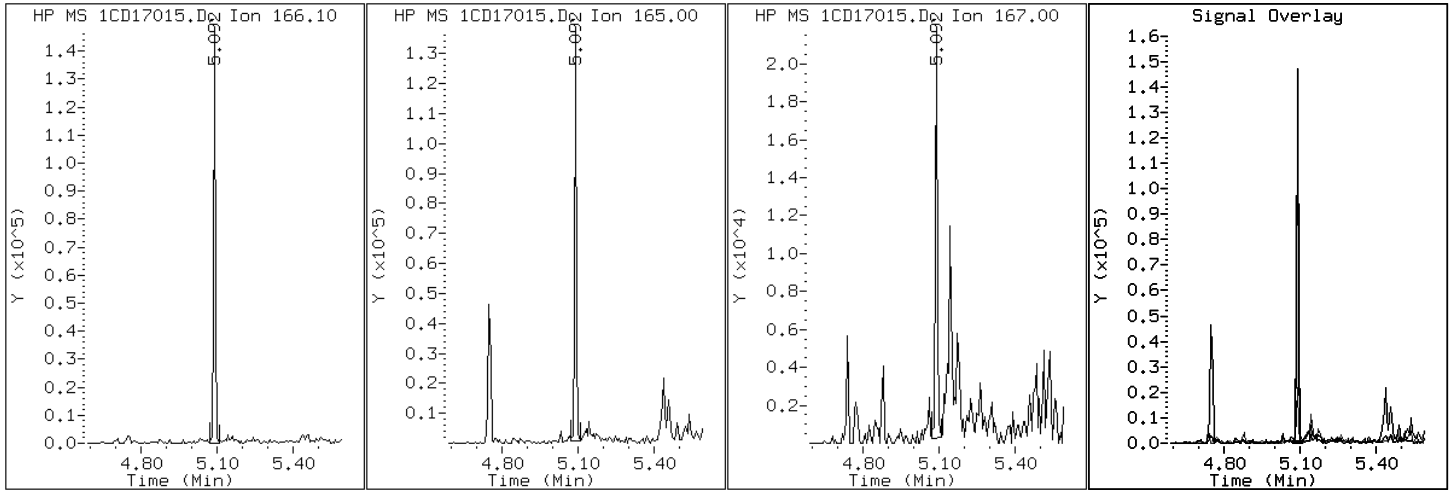
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

9 Fluorene



Data File: 1CDI7015.D

Date: 17-APR-2013 13:58

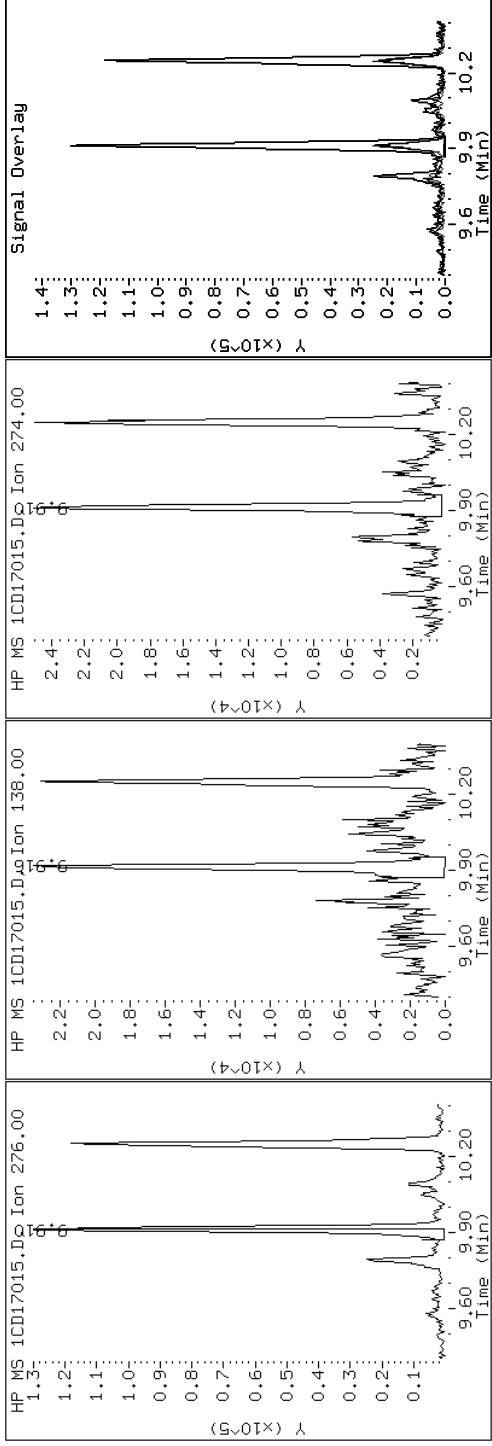
Client ID: CVI090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

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



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

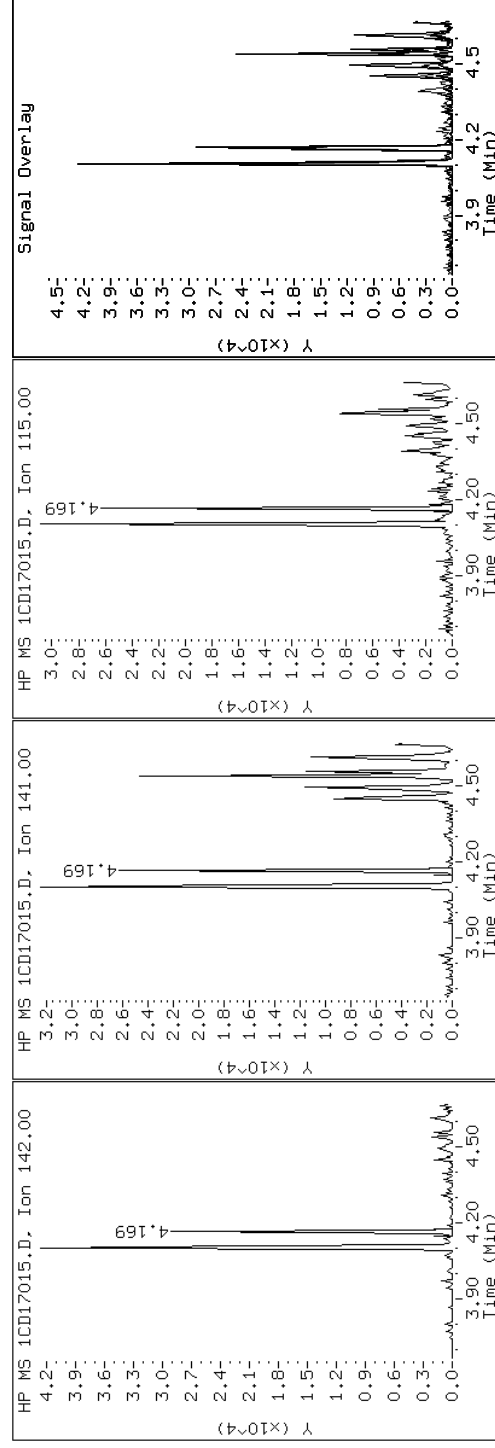
Client ID: CVI090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

### 4 1-Methylnaphthalene



Data File: 1CD17015.D

Date: 17-APR-2013 13:58

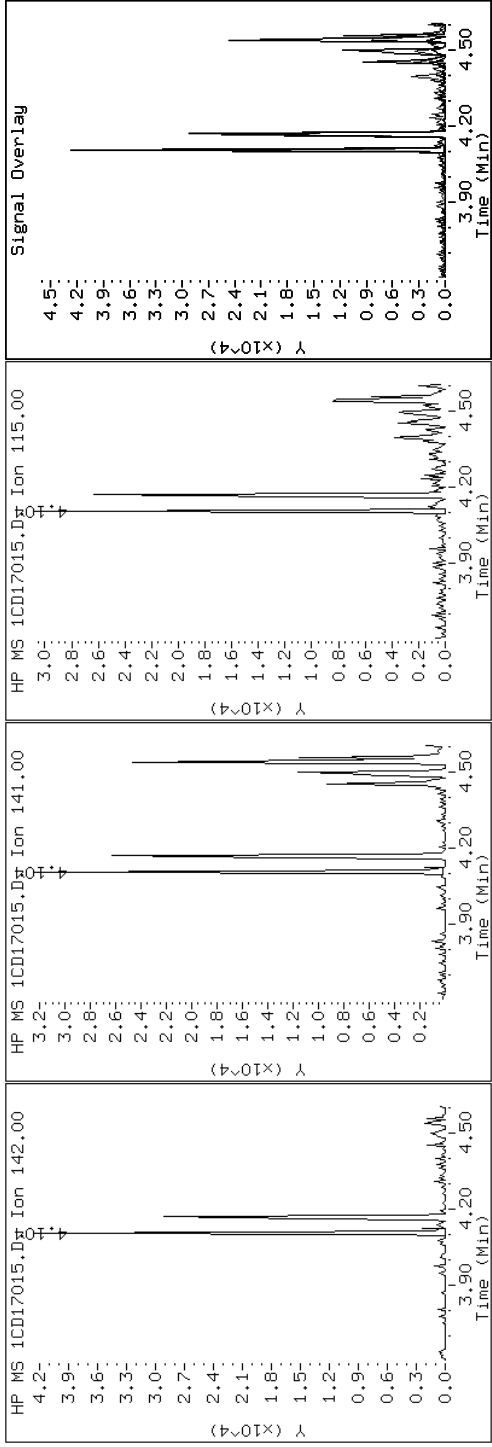
Client ID: CVI090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CDI7015.D

Date: 17-APR-2013 13:58

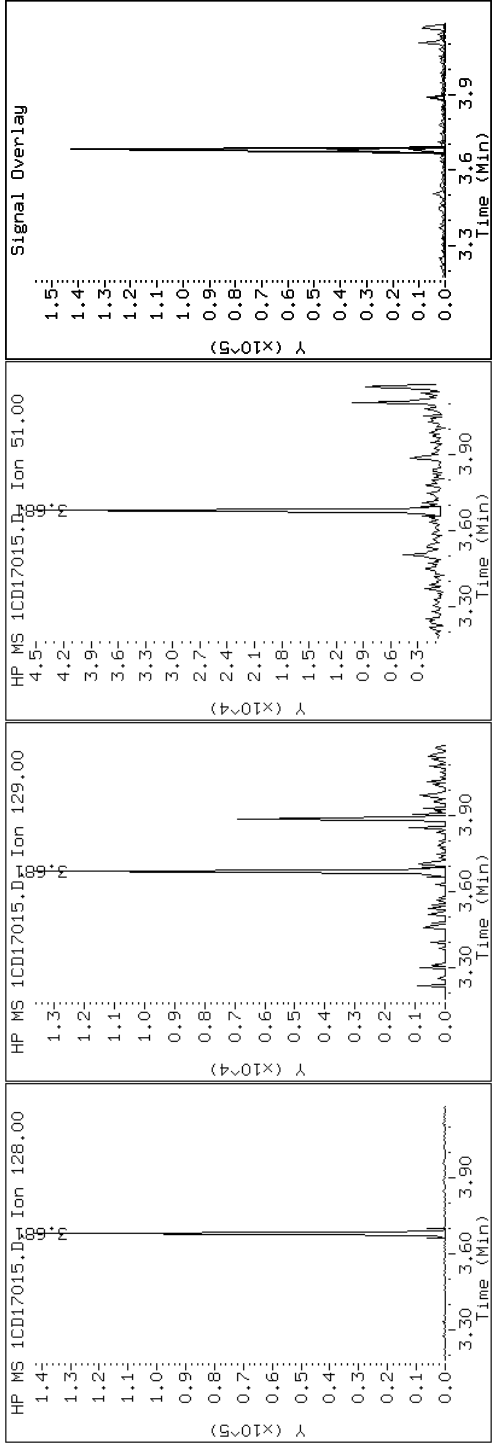
Client ID: CVI090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-10-a

Operator: SCC

2 Naphthalene

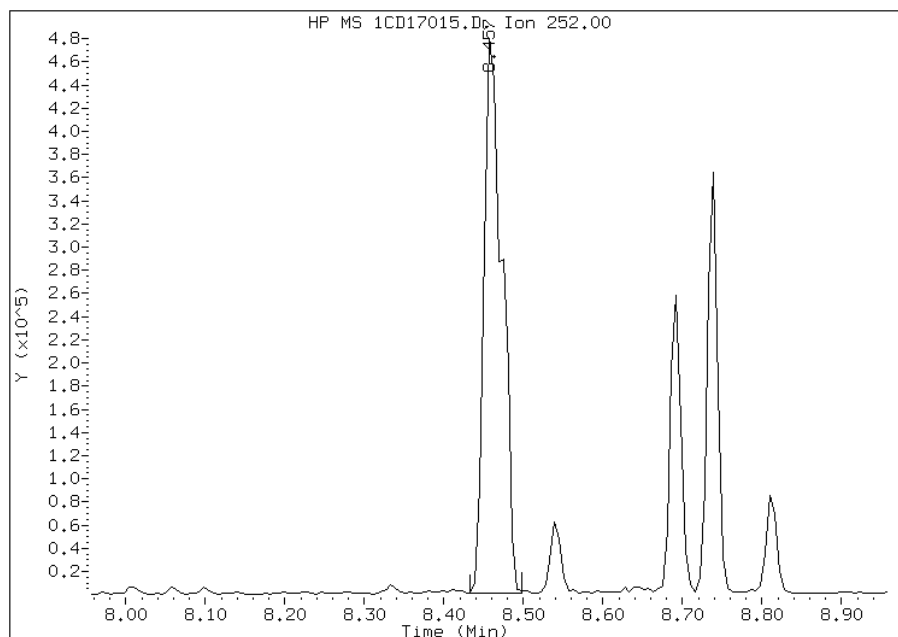


# Manual Integration Report

Data File: 1CD17015.D  
Inj. Date and Time: 17-APR-2013 13:58  
Instrument ID: BSMC5973.i  
Client ID: CV1090A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

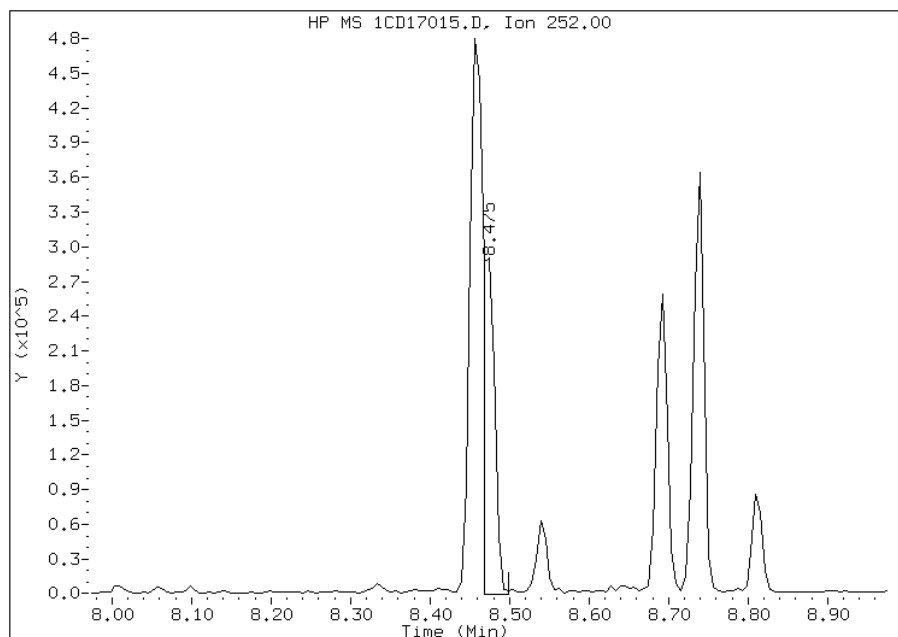
## Processing Integration Results

RT: 8.46  
Response: 754854  
Amount: 62  
Conc: 21584



## Manual Integration Results

RT: 8.47  
Response: 294394  
Amount: 24  
Conc: 8418



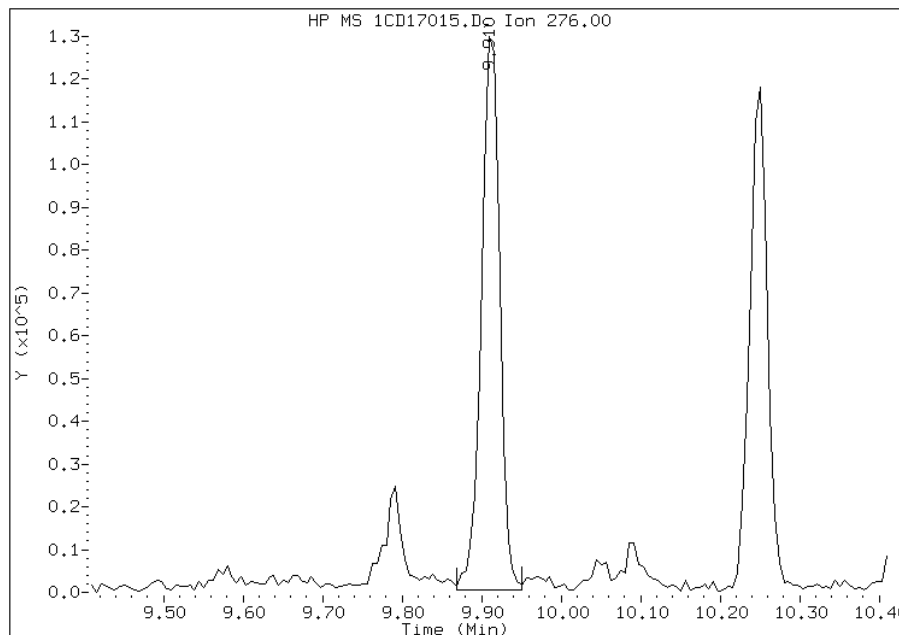
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:56  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17015.D  
Inj. Date and Time: 17-APR-2013 13:58  
Instrument ID: BSMC5973.i  
Client ID: CV1090A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

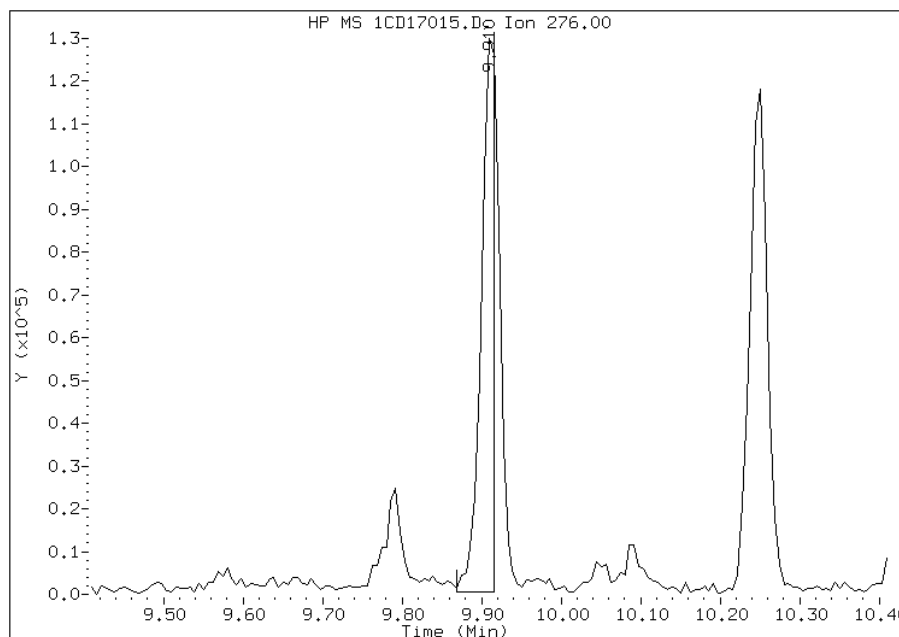
## Processing Integration Results

RT: 9.91  
Response: 206159  
Amount: 19  
Conc: 6720



## Manual Integration Results

RT: 9.91  
Response: 157020  
Amount: 15  
Conc: 5172



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:57  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1090A-CS DL Lab Sample ID: 680-89275-10 DL  
 Matrix: Solid Lab File ID: 1CD17029.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 08:40  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.93(g) Date Analyzed: 04/17/2013 18:14  
 Con. Extract Vol.: 1(mL) Dilution Factor: 20  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 23.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	17000		320	160
206-44-0	Fluoranthene	31000		530	110
85-01-8	Phenanthrene	33000		210	100
129-00-0	Pyrene	24000		530	97

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17029.D  
 Lab Smp Id: 680-89275-A-10-A Client Smp ID: CV1090A-CS  
 Inj Date : 17-APR-2013 18:14  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-A-10-A  
 Misc Info : 680-89275-A-10-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 29  
 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	14.930	Weight Extracted
M	23.634	% 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		3.669	3.663	(1.000)	354190	40.0000	
* 6 Acenaphthene-d10	164		4.757	4.751	(1.000)	249301	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	443717	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	2816	1.07290	1882.0341(R)
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	501611	40.0000	
* 23 Perylene-d12	264		8.792	8.780	(1.000)	481667	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	14674	1.53264	2688.4916
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	5033	1.05872	1857.1630
4 1-Methylnaphthalene	142		4.169	4.168	(1.136)	4599	0.75200	1319.1210
5 Acenaphthylene	152		4.669	4.663	(0.981)	6574	0.62231	1091.6331
7 Acenaphthene	154		4.774	4.774	(1.004)	13743	2.15874	3786.7683
9 Fluorene	166		5.092	5.092	(1.070)	16548	2.04260	3583.0271
11 Phenanthrene	178		5.716	5.709	(1.003)	245282	18.9269	33200.6092
12 Anthracene	178		5.745	5.745	(1.008)	39929	3.09970	5437.3420

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.857	5.851 (1.028)		32132	2.67828	4698.1096
15 Fluoranthene	202	6.545	6.545 (1.149)		256747	17.8367	31288.3884
16 Pyrene	202	6.716	6.709 (0.880)		191538	13.4221	23544.4857
17 Benzo(a)anthracene	228	7.627	7.621 (0.999)		103162	7.27283	12757.6598
19 Chrysene	228	7.651	7.651 (1.002)		99399	7.08369	12425.8874
20 Benzo(b)fluoranthene	252	8.457	8.450 (0.962)		119339	9.80948	17207.3350(M)
21 Benzo(k)fluoranthene	252	8.474	8.468 (0.964)		32988	2.39632	4203.5074(QM)
22 Benzo(a)pyrene	252	8.739	8.733 (0.994)		68870	5.47653	9606.6761
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903 (1.127)		29595	3.00823	5276.8980(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915 (1.128)		11776	1.40178	2458.9367
26 Benzo(g,h,i)perylene	276	10.251	10.233 (1.166)		40020	3.39525	5955.7923(M)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CD17029.D

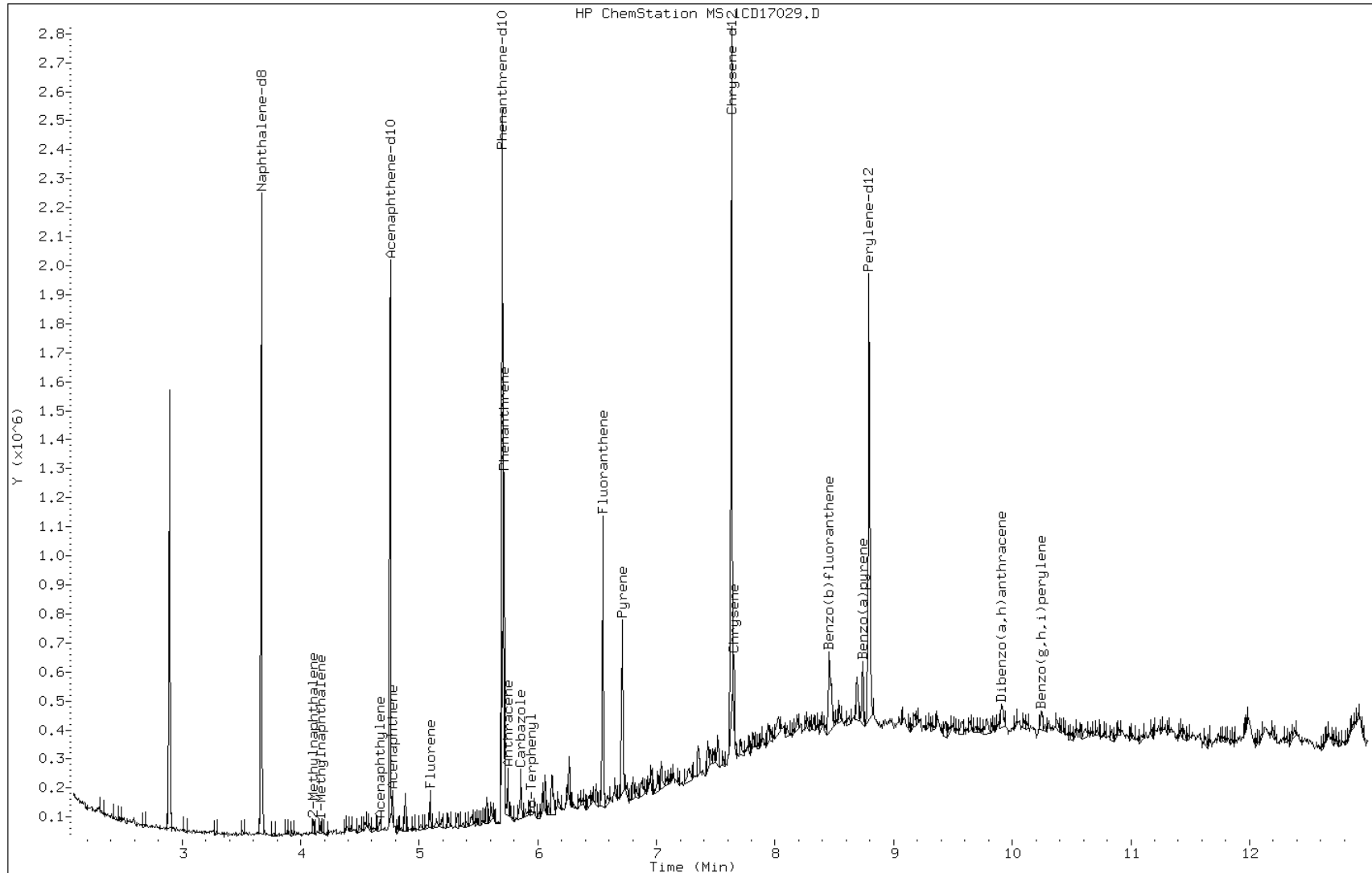
Date: 17-APR-2013 18:14

Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-A-10-A

Operator: SCC



Data File: 1CD17029.D

Date: 17-APR-2013 18:14

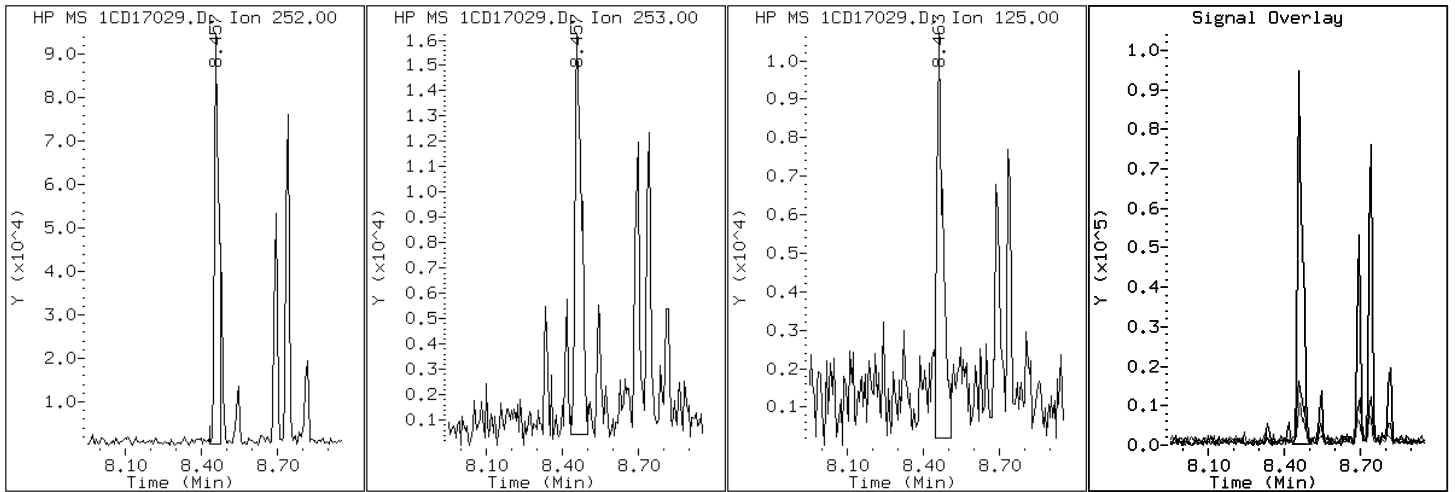
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-A-10-A

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17029.D

Date: 17-APR-2013 18:14

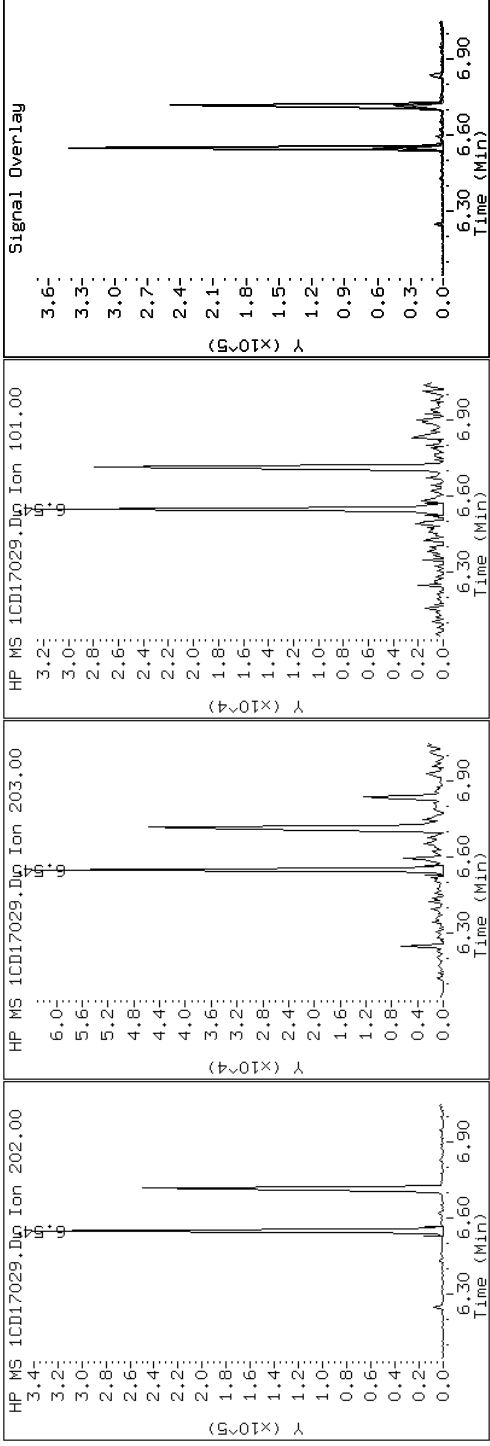
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-A-10-A

Operator: SCC

15 Fluoranthene



Data File: 1CD17029.D

Date: 17-APR-2013 18:14

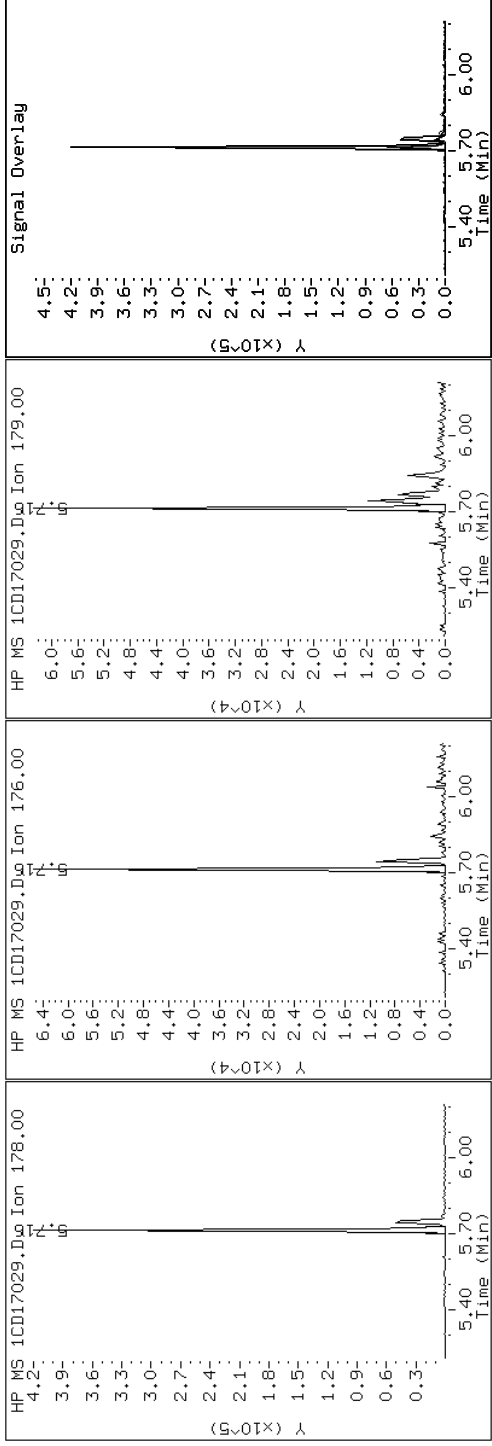
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-A-10-A

Operator: SCC

11 Phenanthrene



Data File: 1CD17029.D

Date: 17-APR-2013 18:14

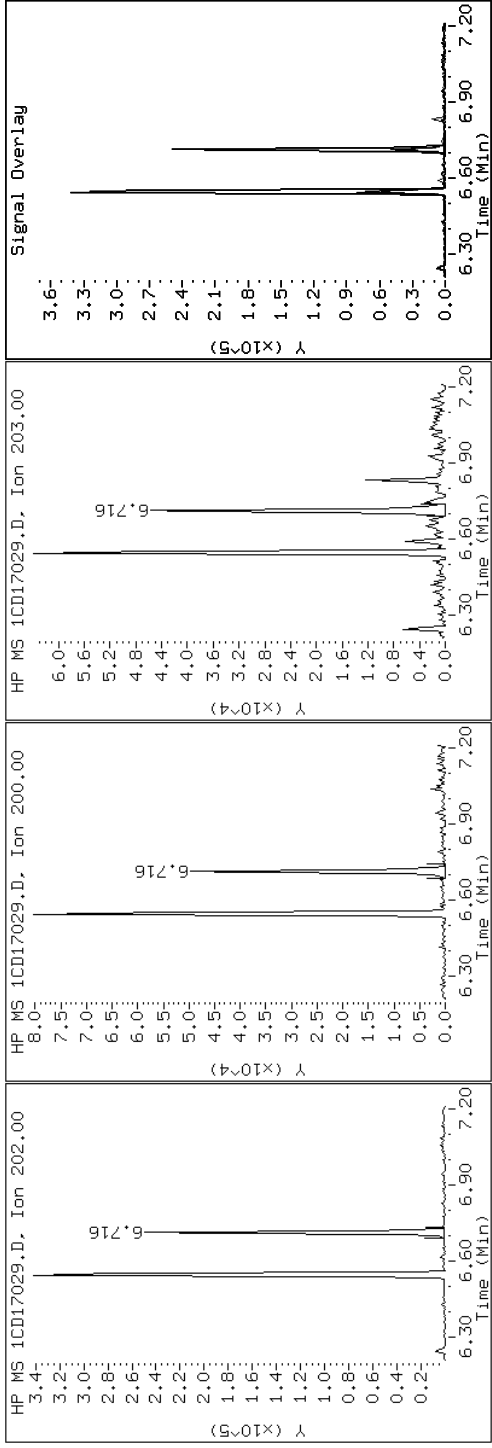
Client ID: CV1090A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-A-10-A

Operator: SCC

16 Pyrene



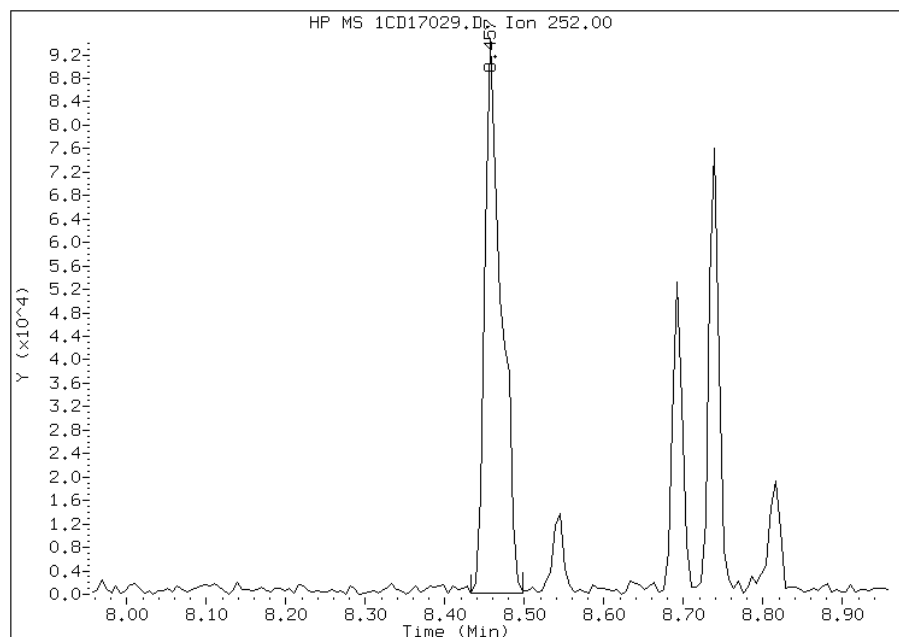


# Manual Integration Report

Data File: 1CD17029.D  
Inj. Date and Time: 17-APR-2013 18:14  
Instrument ID: BSMC5973.i  
Client ID: CV1090A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

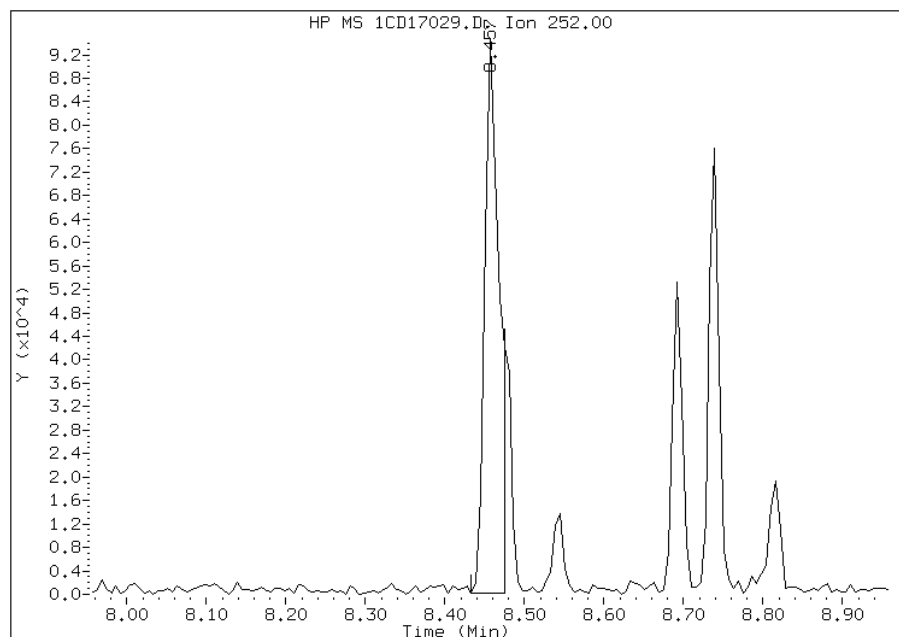
## Processing Integration Results

RT: 8.46  
Response: 137761  
Amount: 11  
Conc: 19864



## Manual Integration Results

RT: 8.46  
Response: 119339  
Amount: 10  
Conc: 17207



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:28  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1090A-CSD Lab Sample ID: 680-89275-11  
 Matrix: Solid Lab File ID: 1CD17016.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 08:40  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.01(g) Date Analyzed: 04/17/2013 14:16  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	33	J	130	25
208-96-8	Acenaphthylene	46	J	51	6.4
120-12-7	Anthracene	50		11	5.3
56-55-3	Benzo[a]anthracene	350		10	5.0
50-32-8	Benzo[a]pyrene	240		13	6.6
205-99-2	Benzo[b]fluoranthene	570		15	7.7
191-24-2	Benzo[g,h,i]perylene	260		25	5.6
207-08-9	Benzo[k]fluoranthene	170		10	4.6
218-01-9	Chrysene	810		11	5.7
53-70-3	Dibenz(a,h)anthracene	140		25	5.2
206-44-0	Fluoranthene	460		25	5.1
86-73-7	Fluorene	77		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	200		25	9.0
90-12-0	1-Methylnaphthalene	620		51	5.6
91-57-6	2-Methylnaphthalene	720		51	9.0
91-20-3	Naphthalene	380		51	5.6
85-01-8	Phenanthrene	890		10	5.0
129-00-0	Pyrene	430		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17016.D  
 Lab Smp Id: 680-89275-A-11-A Client Smp ID: CV1090A-CSD  
 Inj Date : 17-APR-2013 14:16  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-11-a  
 Misc Info : 680-89275-A-11-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 16  
 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	15.010	Weight Extracted
M	21.318	% 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		3.668	3.663	(1.000)	325944	40.0000	
* 6 Acenaphthene-d10	164		4.757	4.751	(1.000)	223977	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	423721	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	42272	6.71419	568.5086
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	472169	40.0000	
* 23 Perylene-d12	264		8.792	8.780	(1.000)	443884	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	39370	4.46839	378.3508
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	48708	8.53867	722.9926
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	41279	7.33459	621.0399
5 Acenaphthylene	152		4.662	4.663	(0.980)	5171	0.54485	46.1336(Q)
7 Acenaphthene	154		4.774	4.774	(1.004)	2215	0.38727	32.7912(Q)
9 Fluorene	166		5.092	5.092	(1.070)	6645	0.91296	77.3029(Q)
11 Phenanthrene	178		5.715	5.709	(1.003)	130549	10.5219	890.9156
12 Anthracene	178		5.745	5.745	(1.008)	7264	0.59052	50.0006

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.856	5.851 (1.028)		11639	1.01592	86.0207
15 Fluoranthene	202	6.545	6.545 (1.149)		74907	5.44953	461.4260
16 Pyrene	202	6.715	6.709 (0.880)		67495	5.02467	425.4526
17 Benzo(a)anthracene	228	7.627	7.621 (0.999)		55368	4.14679	351.1199(Q)
19 Chrysene	228	7.650	7.651 (1.002)		125723	9.51836	805.9452
20 Benzo(b)fluoranthene	252	8.456	8.450 (0.962)		75594	6.74262	570.9154(M)
21 Benzo(k)fluoranthene	252	8.468	8.468 (0.963)		25501	2.01012	170.2026(MH)
22 Benzo(a)pyrene	252	8.739	8.733 (0.994)		33028	2.84994	241.3118
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903 (1.127)		19277	2.31370	195.9073(M)
25 Dibenzo(a,h)anthracene	278	9.927	9.915 (1.129)		14058	1.68381	142.5729
26 Benzo(g,h,i)perylene	276	10.256	10.233 (1.167)		32792	3.01884	255.6133

QC Flag Legend

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

Data File: 1CD17016.D

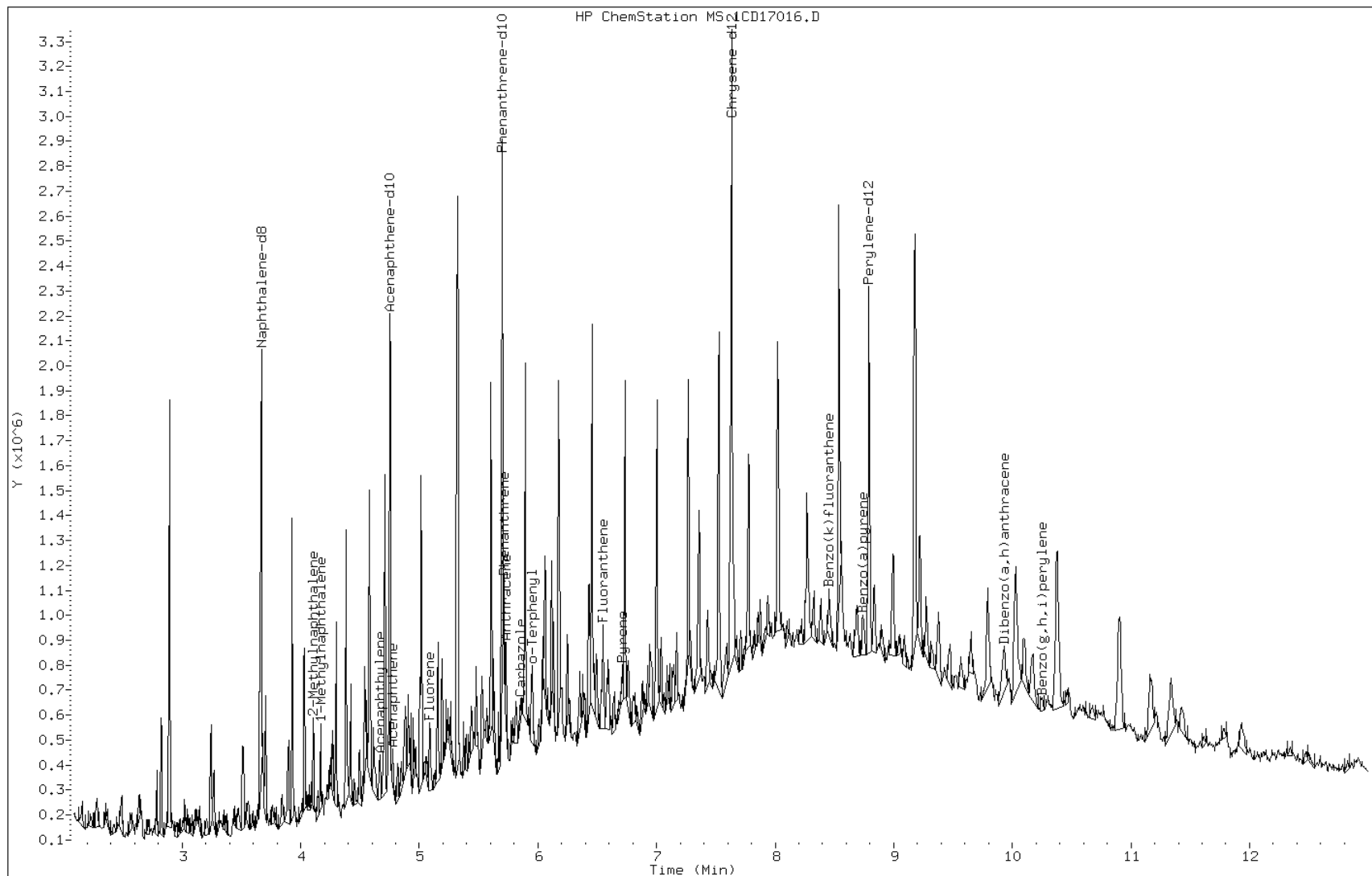
Date: 17-APR-2013 14:16

Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC



Data File: 1CDI7016.D

Date: 17-APR-2013 14:16

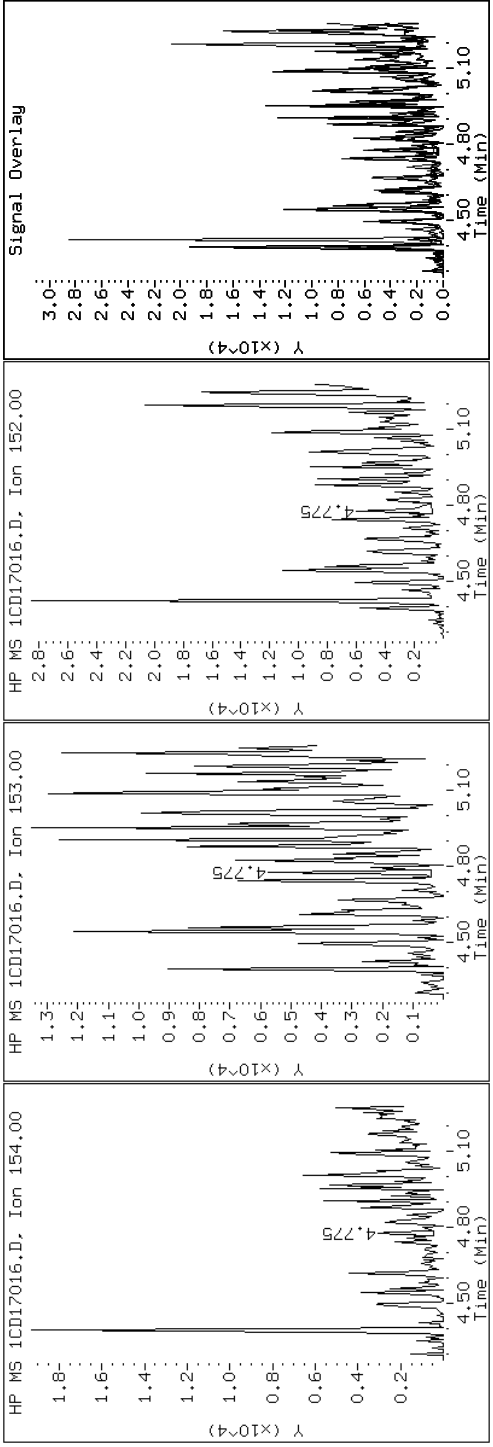
Client ID: CVI090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

7 Acenaphthene



Data File: 1CDI17016.D

Date: 17-APR-2013 14:16

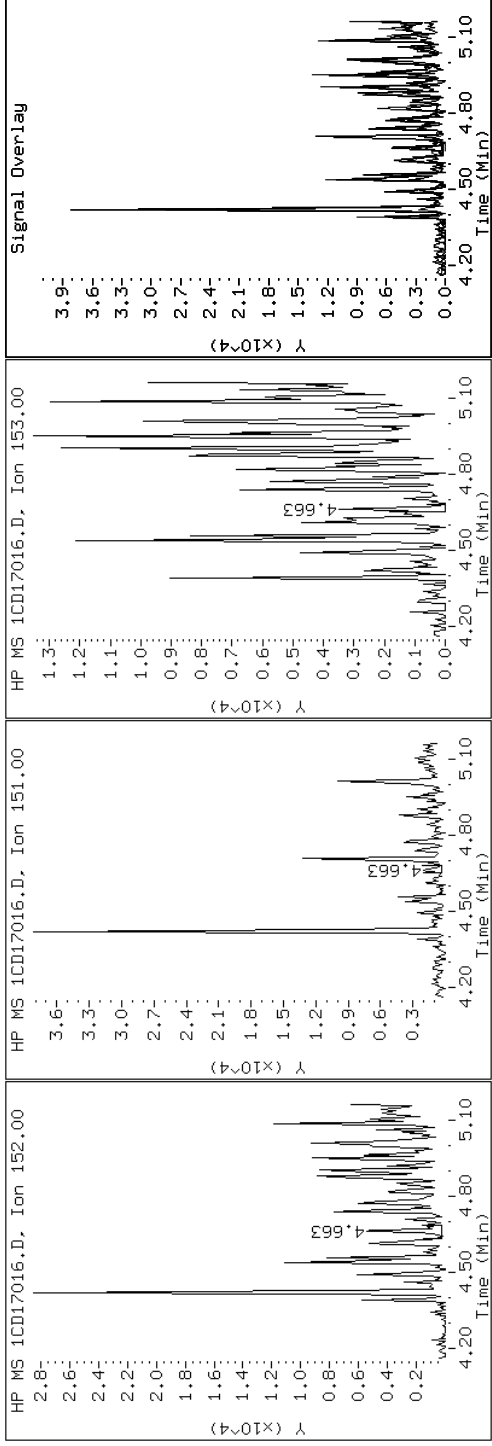
Client ID: CVI090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

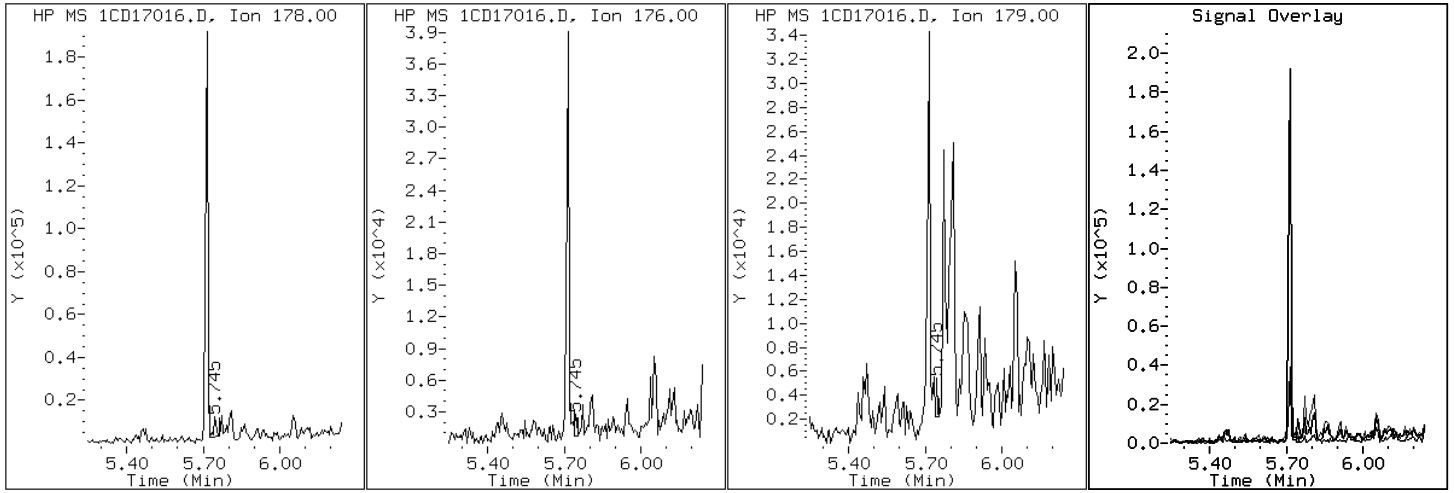
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

12 Anthracene





Data File: 1CD17016.D

Date: 17-APR-2013 14:16

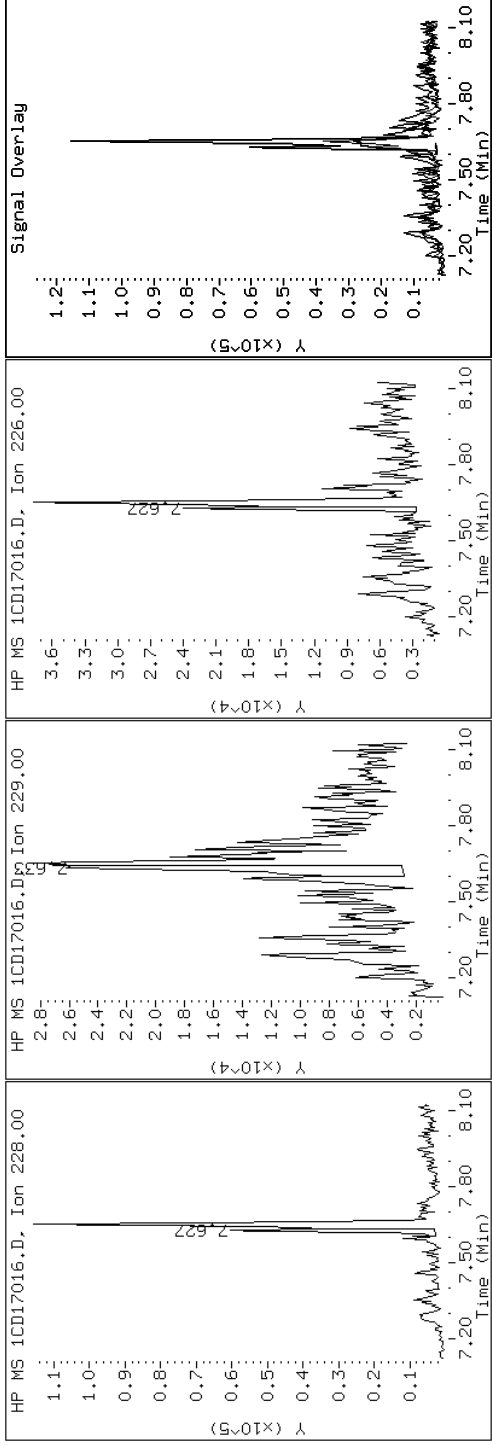
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

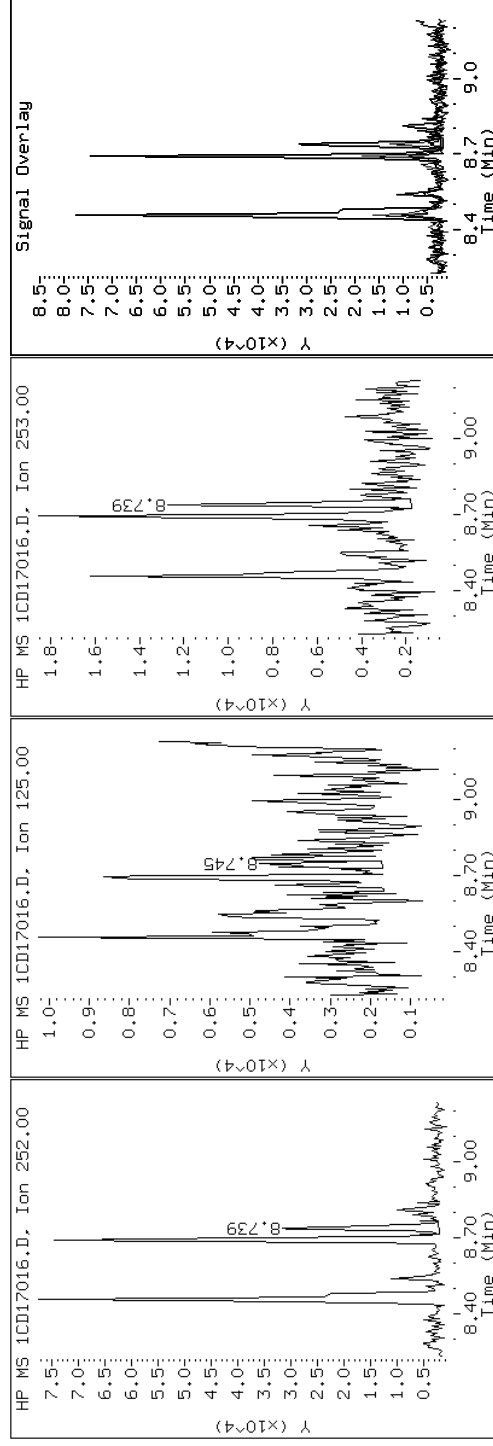
Client ID: CVI090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

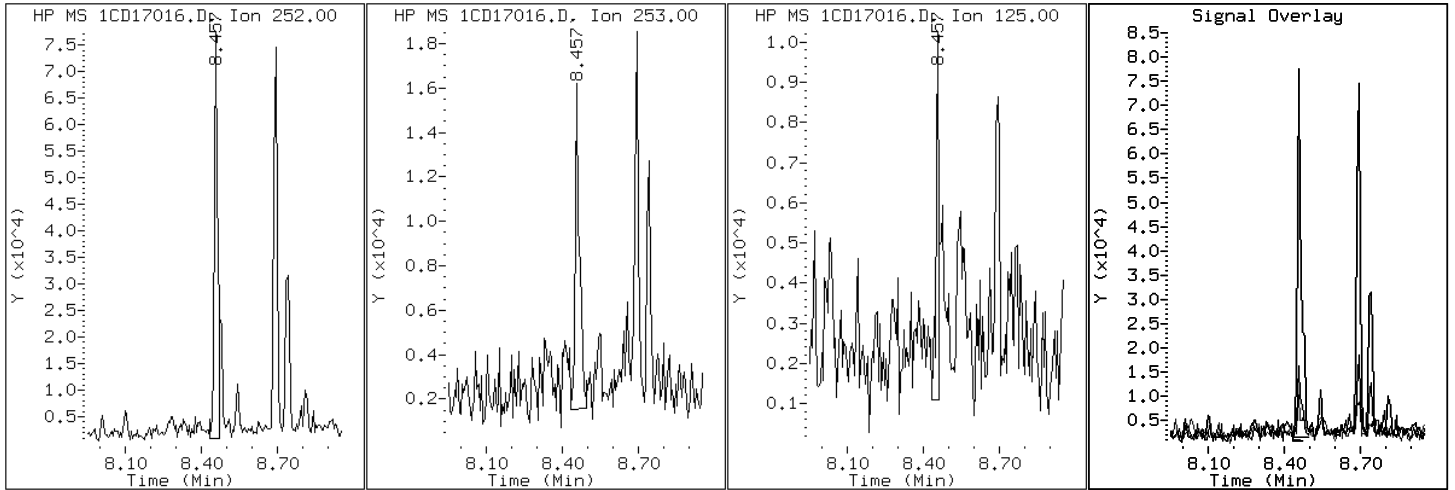
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CDI7016.D

Date: 17-APR-2013 14:16

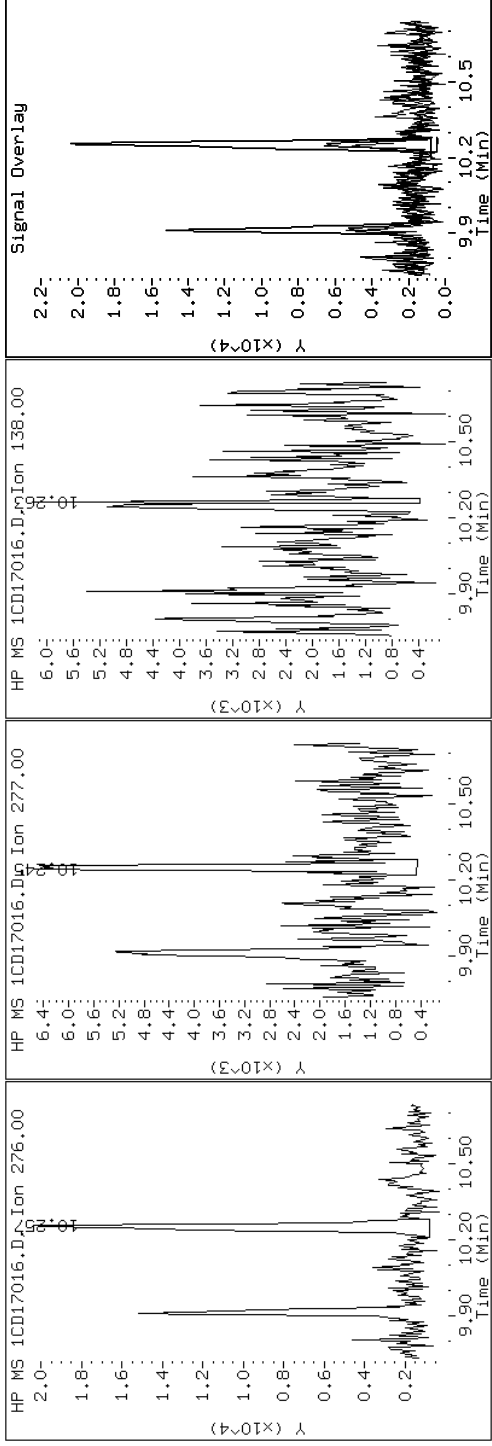
Client ID: CVI090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

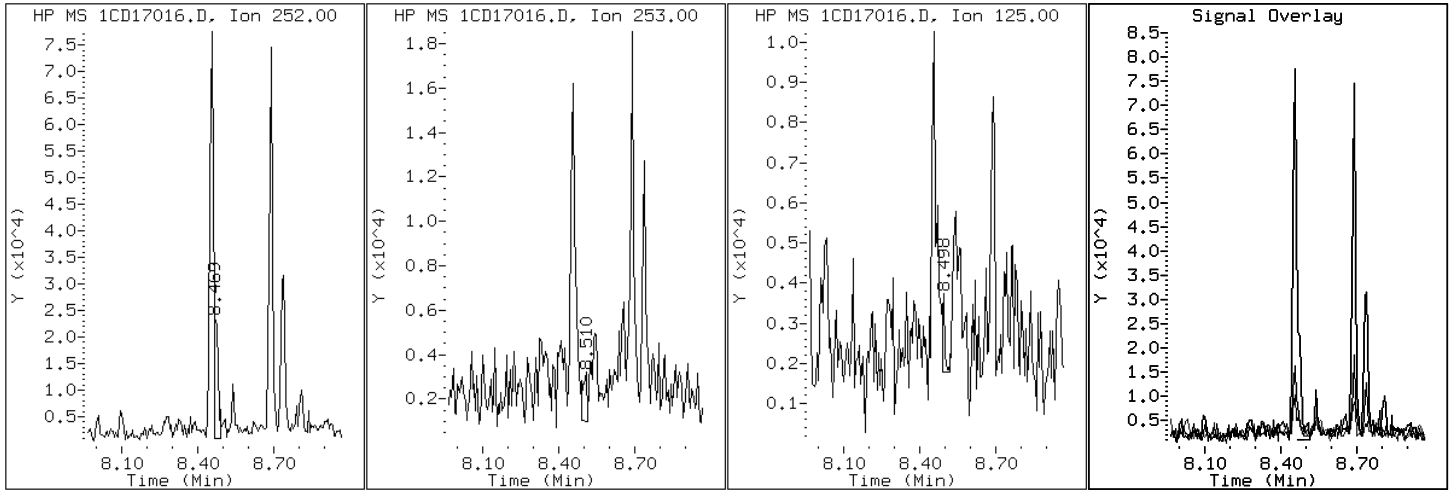
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

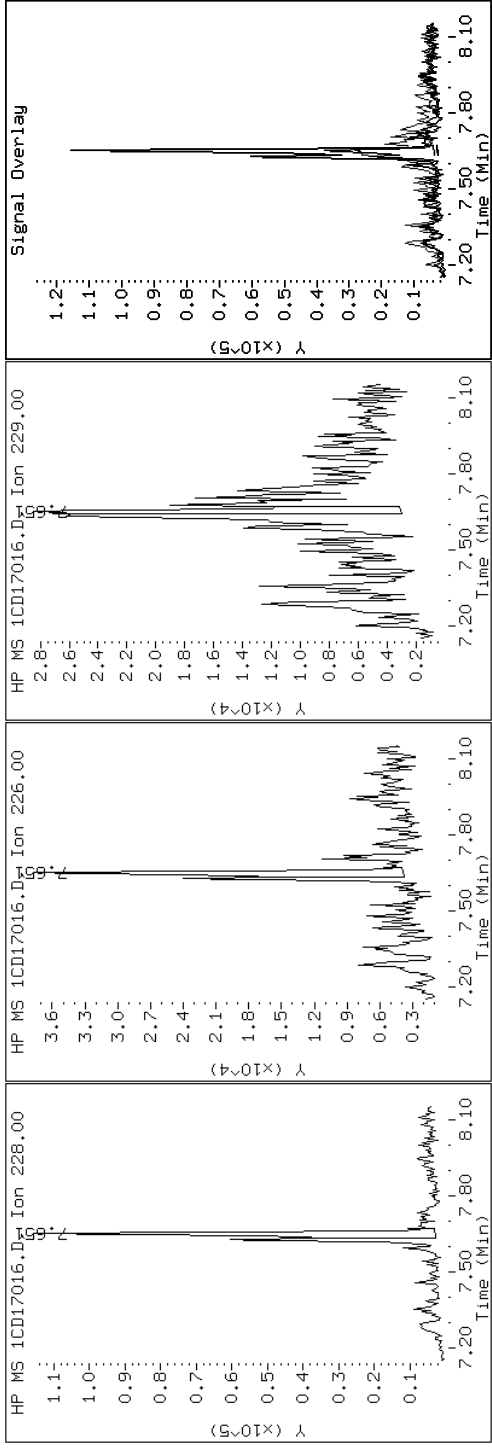
Client ID: CVI090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

19 Chrysene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

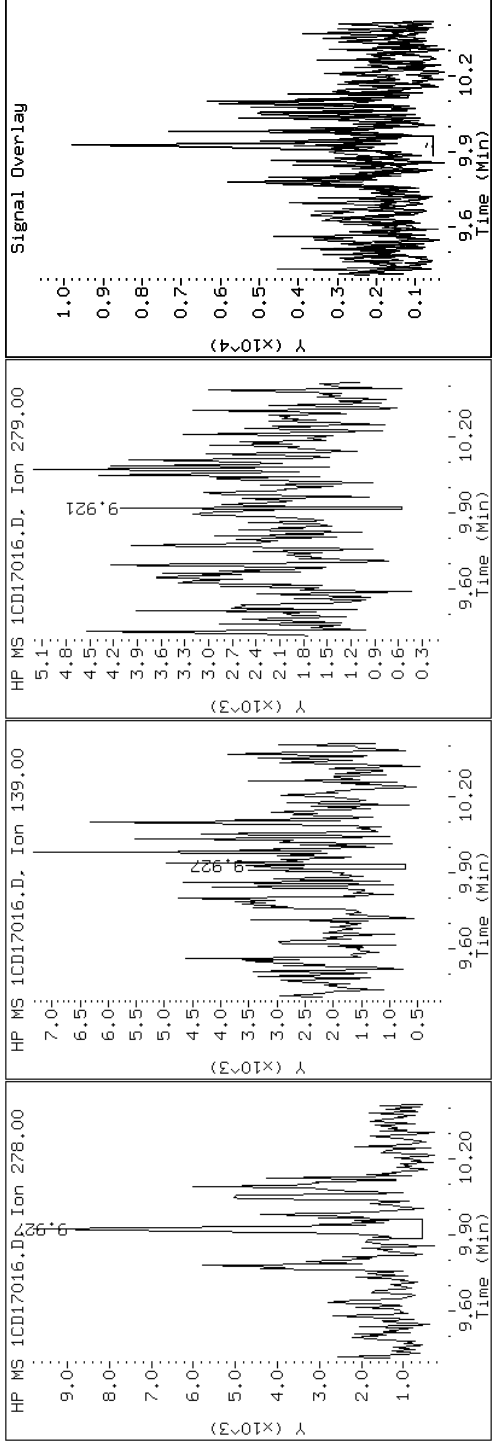
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

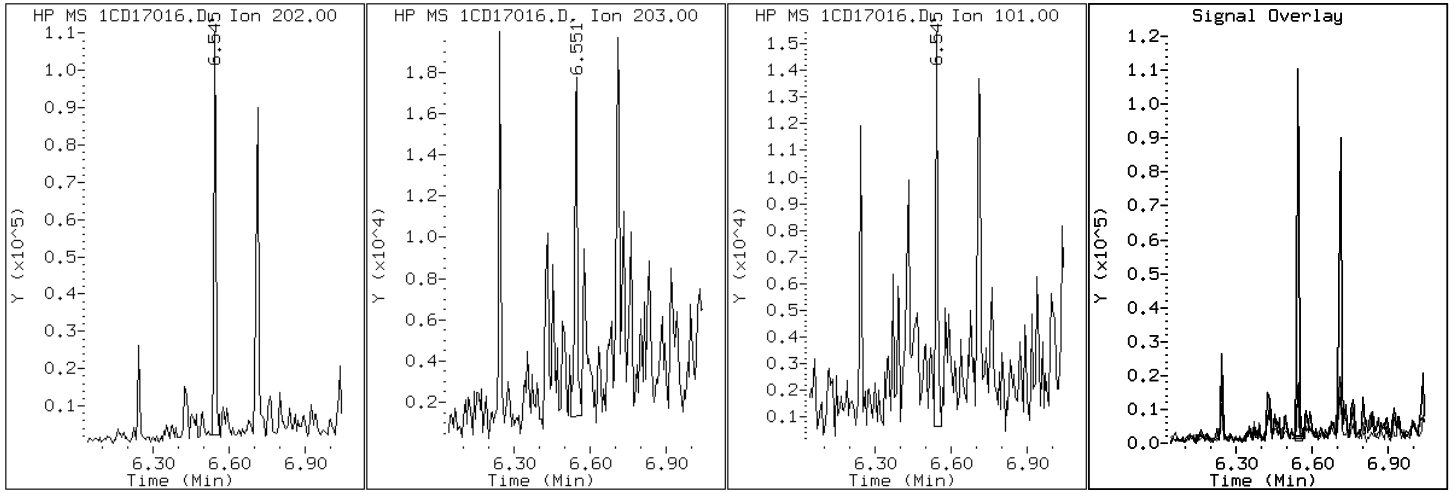
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

15 Fluoranthene





Data File: 1CD17016.D

Date: 17-APR-2013 14:16

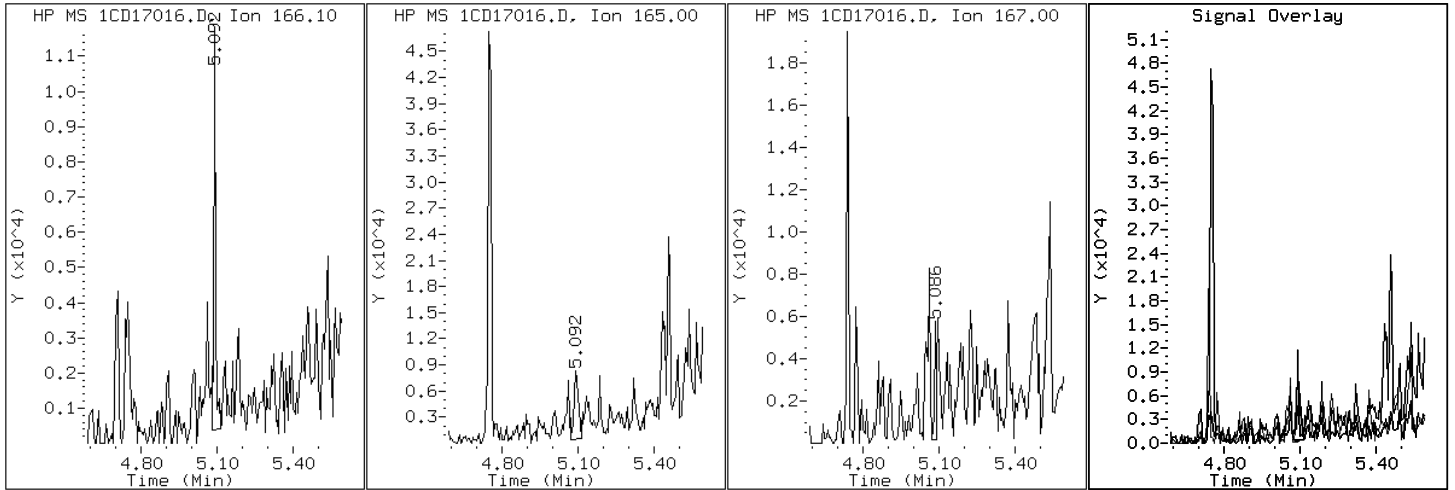
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

9 Fluorene



Data File: 1CDI7016.D

Date: 17-APR-2013 14:16

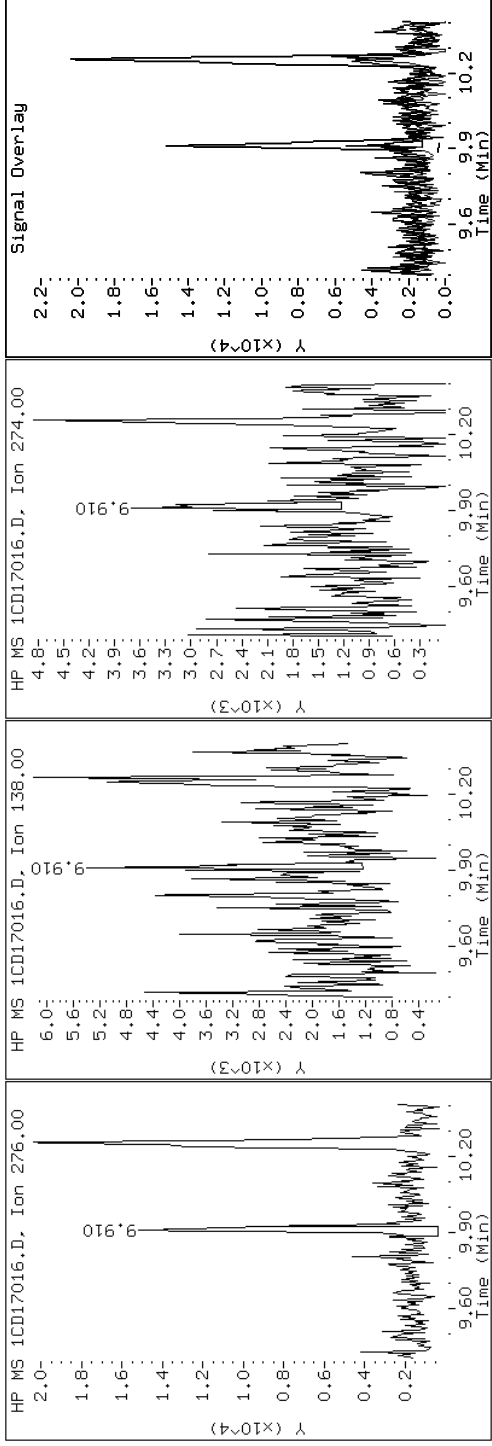
Client ID: CVI090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

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



Data File: 1CDI7016.D

Date: 17-APR-2013 14:16

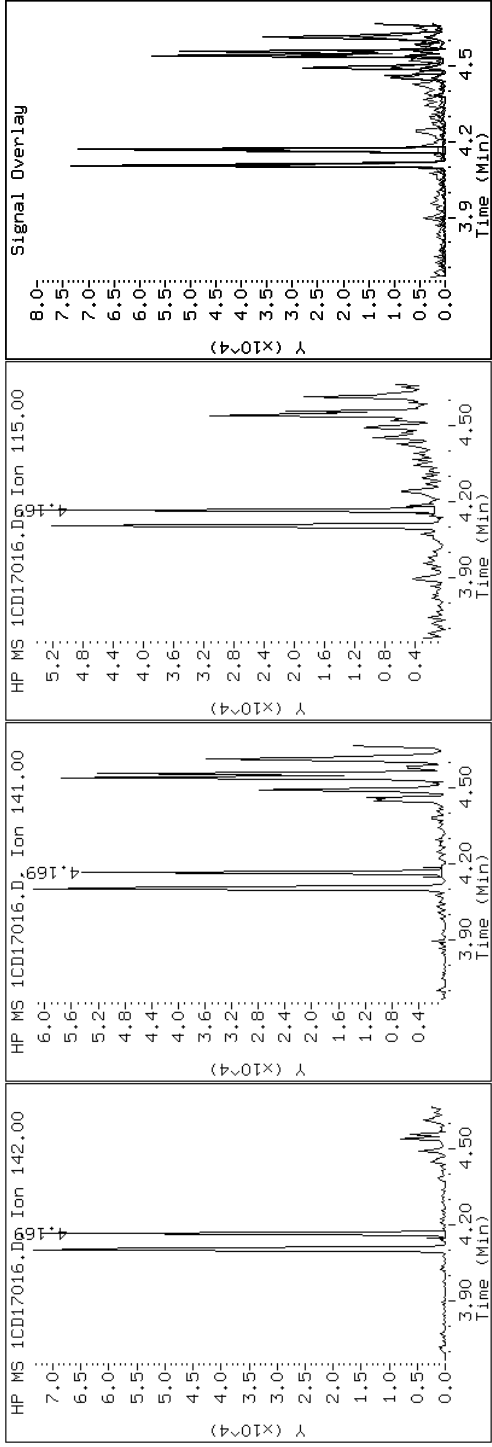
Client ID: CVI090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

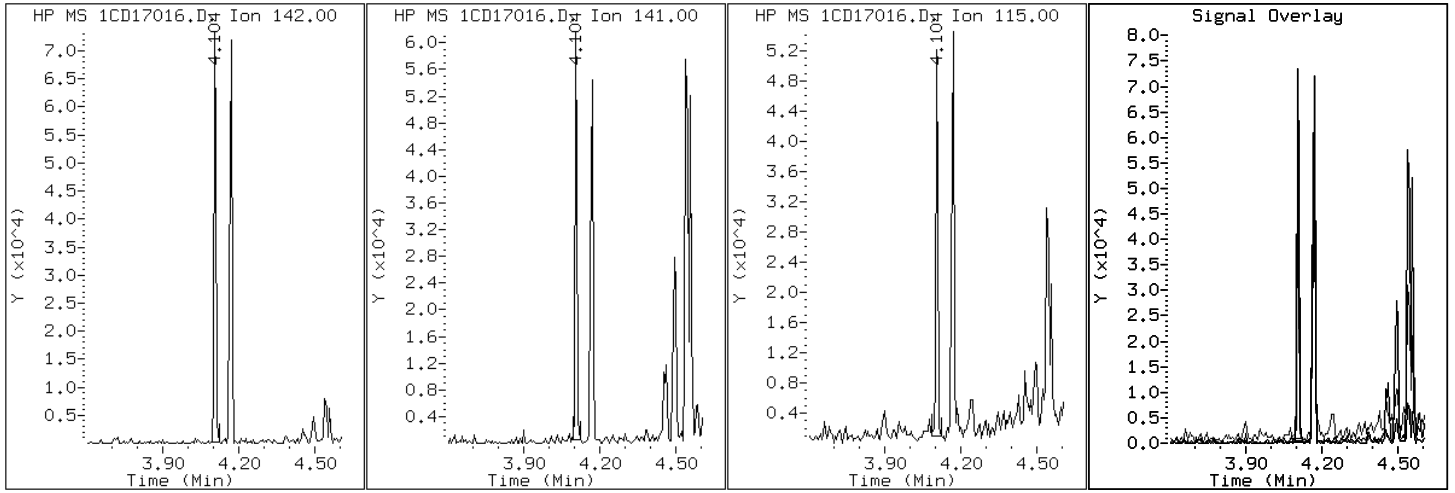
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

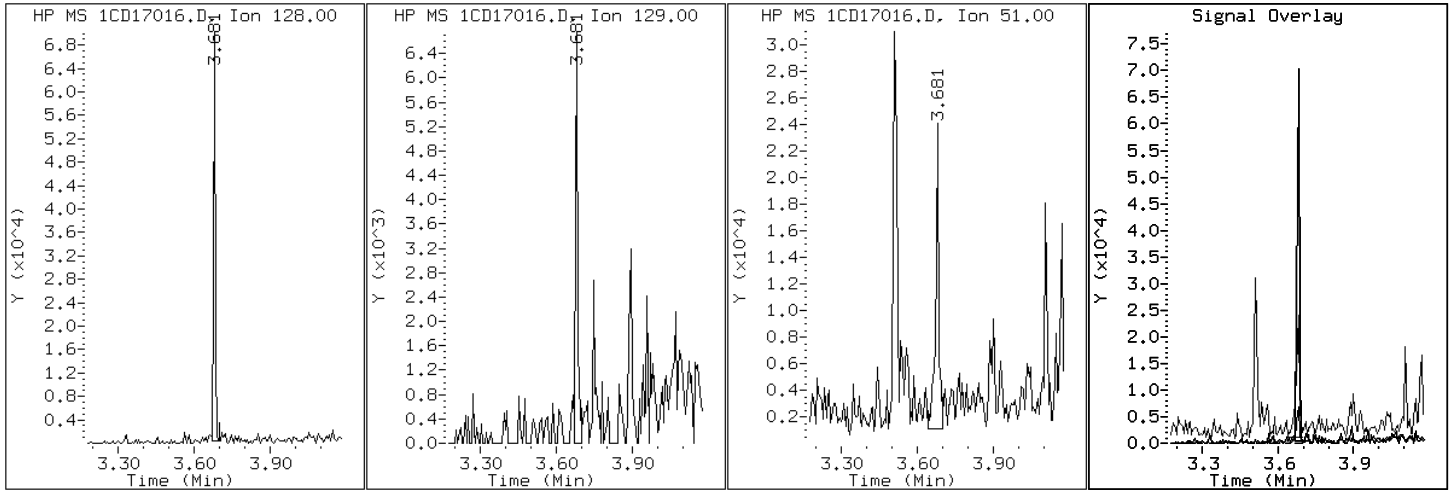
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

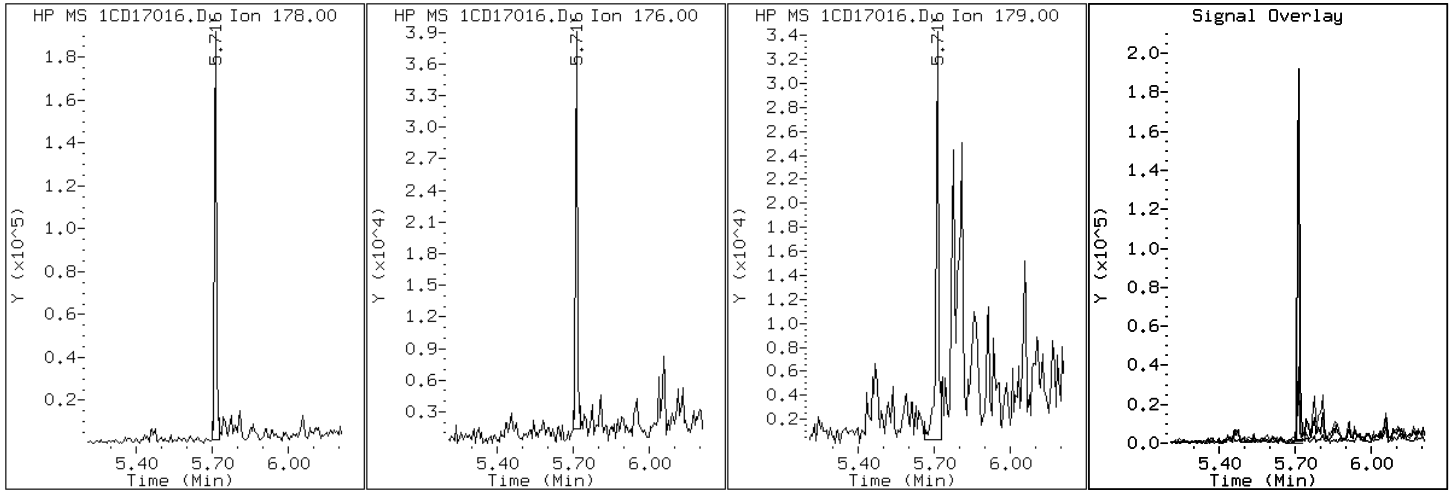
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17016.D

Date: 17-APR-2013 14:16

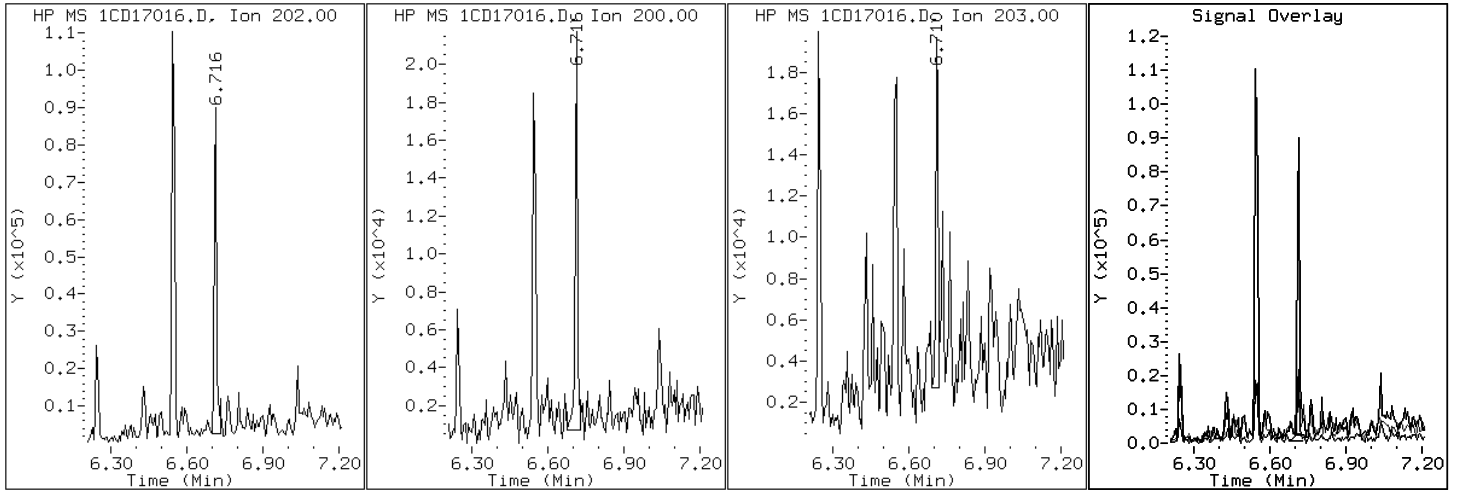
Client ID: CV1090A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89275-a-11-a

Operator: SCC

16 Pyrene

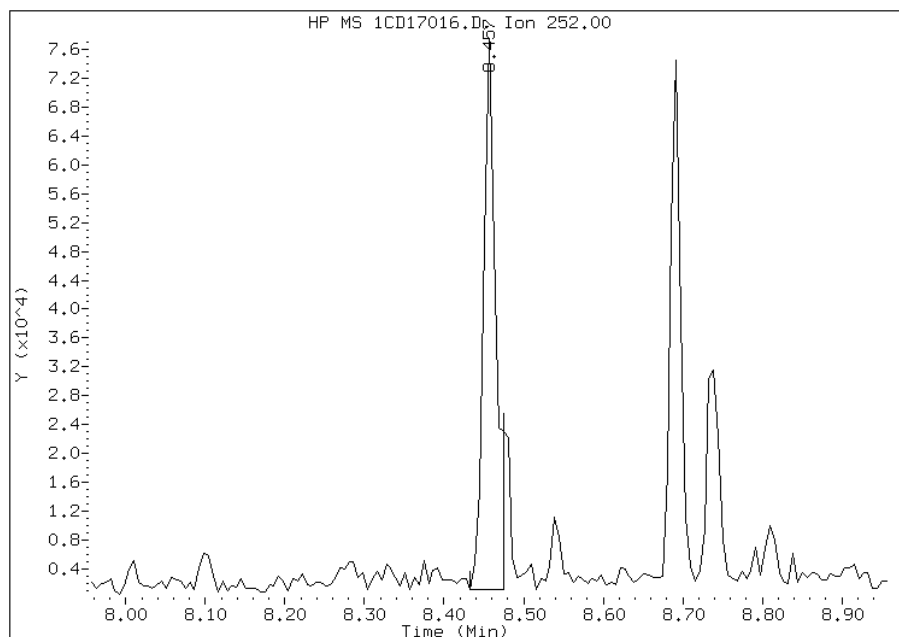


# Manual Integration Report

Data File: 1CD17016.D  
Inj. Date and Time: 17-APR-2013 14:16  
Instrument ID: BSMC5973.i  
Client ID: CV1090A-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

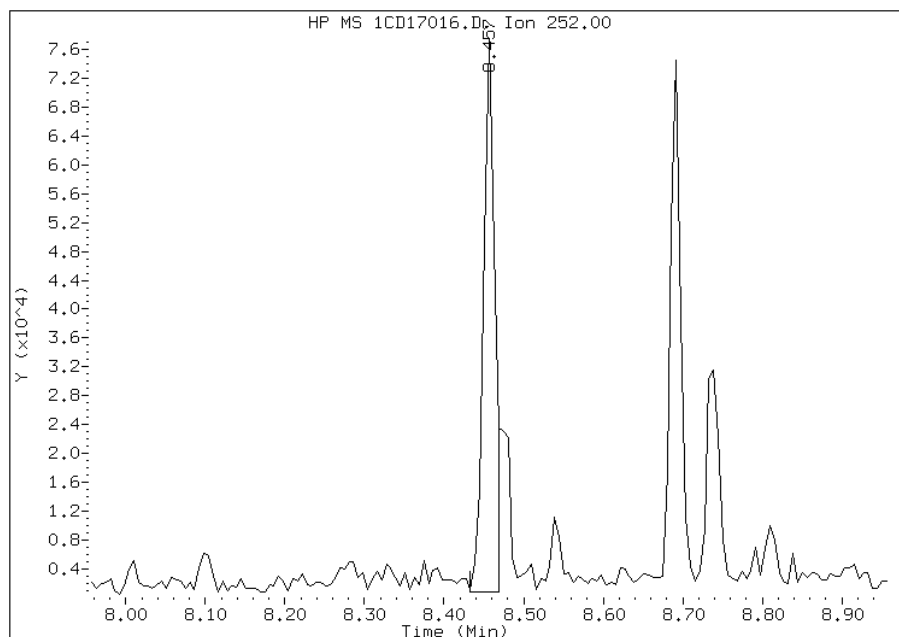
## Processing Integration Results

RT: 8.46  
Response: 82642  
Amount: 7  
Conc: 624



## Manual Integration Results

RT: 8.46  
Response: 75594  
Amount: 7  
Conc: 571



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 16:00  
Manual Integration Reason: Baseline Event

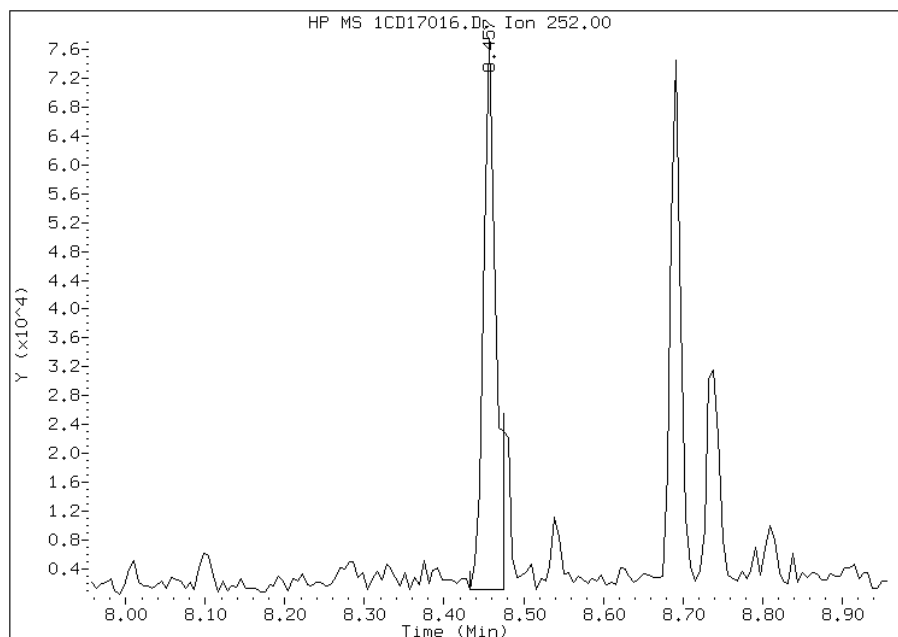


# Manual Integration Report

Data File: 1CD17016.D  
Inj. Date and Time: 17-APR-2013 14:16  
Instrument ID: BSMC5973.i  
Client ID: CV1090A-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

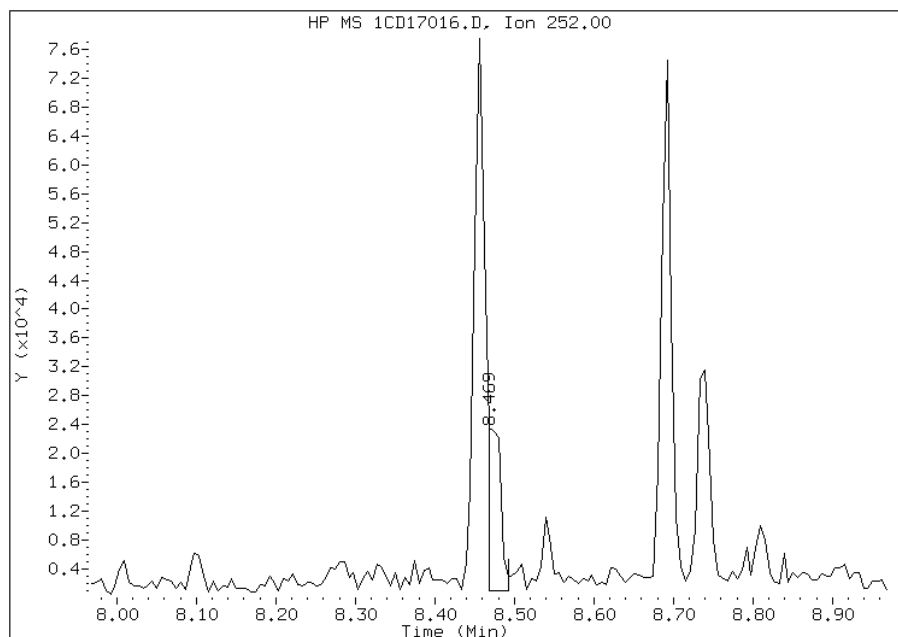
## Processing Integration Results

RT: 8.46  
Response: 82642  
Amount: 7  
Conc: 552



## Manual Integration Results

RT: 8.47  
Response: 25501  
Amount: 2  
Conc: 170



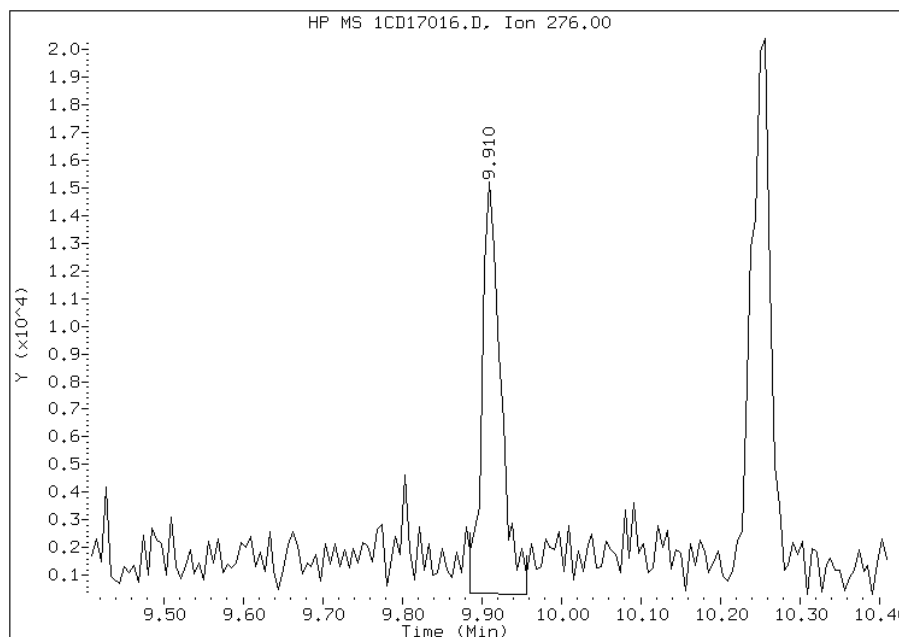
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:59  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17016.D  
Inj. Date and Time: 17-APR-2013 14:16  
Instrument ID: BSMC5973.i  
Client ID: CV1090A-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

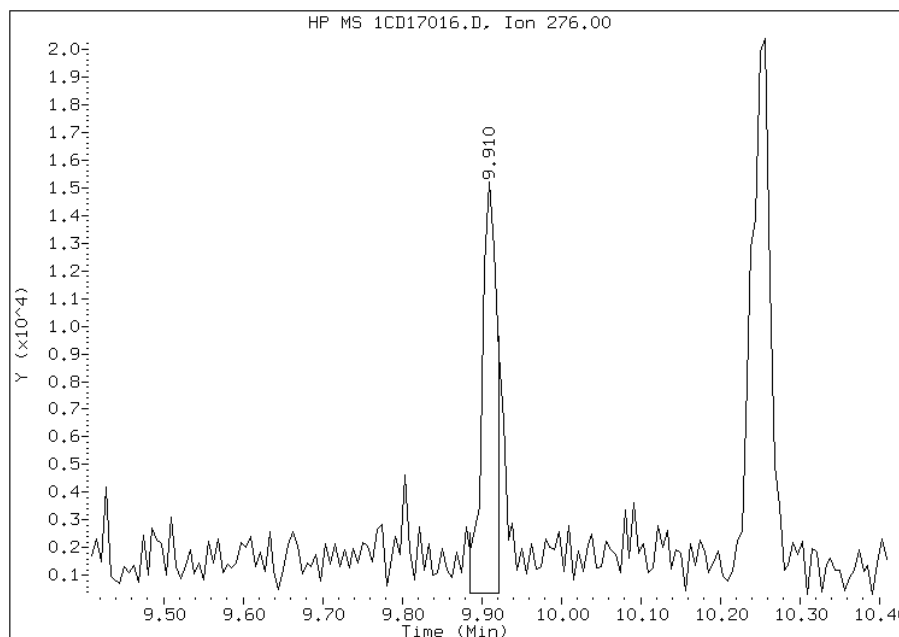
## Processing Integration Results

RT: 9.91  
Response: 24188  
Amount: 3  
Conc: 232



## Manual Integration Results

RT: 9.91  
Response: 19277  
Amount: 2  
Conc: 196



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 16:00  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1091A-CS Lab Sample ID: 680-89275-12  
 Matrix: Solid Lab File ID: 1CD17017.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 09:00  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.18(g) Date Analyzed: 04/17/2013 14:34  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 43.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	35
208-96-8	Acenaphthylene	70	U	70	8.8
120-12-7	Anthracene	15	U	15	7.4
56-55-3	Benzo[a]anthracene	51		14	6.8
50-32-8	Benzo[a]pyrene	9.9	J	18	9.1
205-99-2	Benzo[b]fluoranthene	36		21	11
191-24-2	Benzo[g,h,i]perylene	37		35	7.7
207-08-9	Benzo[k]fluoranthene	12	J	14	6.3
218-01-9	Chrysene	38		16	7.9
53-70-3	Dibenz(a,h)anthracene	35	U	35	7.2
206-44-0	Fluoranthene	24	J	35	7.0
86-73-7	Fluorene	35	U	35	7.2
193-39-5	Indeno[1,2,3-cd]pyrene	35	U	35	12
90-12-0	1-Methylnaphthalene	49	J	70	7.7
91-57-6	2-Methylnaphthalene	110		70	12
91-20-3	Naphthalene	87		70	7.7
85-01-8	Phenanthrene	37		14	6.8
129-00-0	Pyrene	18	J	35	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17017.D  
 Lab Smp Id: 680-89275-A-12-A Client Smp ID: CV1091A-CS  
 Inj Date : 17-APR-2013 14:34  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-12-a  
 Misc Info : 680-89275-A-12-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 17  
 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	15.180	Weight Extracted
M	43.568	% 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		3.669	3.663	(1.000)	335544	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	226647	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	425223	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	35550	5.73829	669.8668
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	468569	40.0000	
* 23 Perylene-d12	264		8.786	8.780	(1.000)	440387	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	6732	0.74220	86.6422
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	4135	0.95437	111.4093
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	2437	0.42063	49.1023
11 Phenanthrene	178		5.710	5.709	(1.002)	3886	0.31892	37.2300
13 Carbazole	167		5.851	5.851	(1.027)	1312	0.11411	13.3213(Q)
15 Fluoranthene	202		6.545	6.545	(1.149)	2823	0.20465	23.8900
16 Pyrene	202		6.709	6.709	(0.879)	2081	0.15611	18.2237(Q)
17 Benzo(a)anthracene	228		7.627	7.621	(0.999)	5835	0.44037	51.4072

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	7.651	7.651	(1.002)	4304	0.32835	38.3309
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.963)	3394	0.30513	35.6200(QM)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	1272	0.10106	11.7976(QMH)
22 Benzo(a)pyrene	252	8.739	8.733	(0.995)	979	0.08515	9.9397(Q)
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	3453	0.32041	37.4033

QC Flag Legend

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

Data File: 1CD17017.D

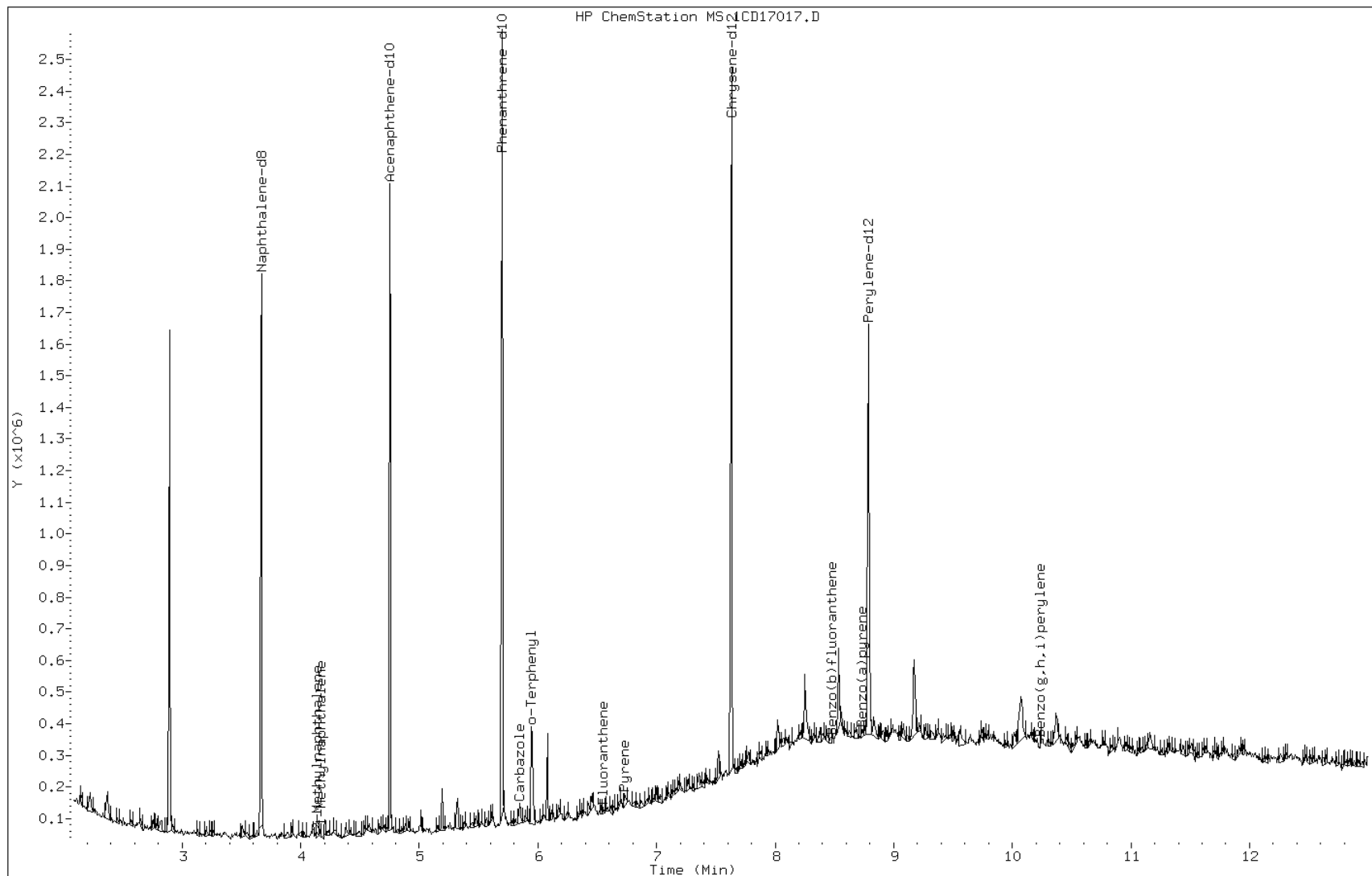
Date: 17-APR-2013 14:34

Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

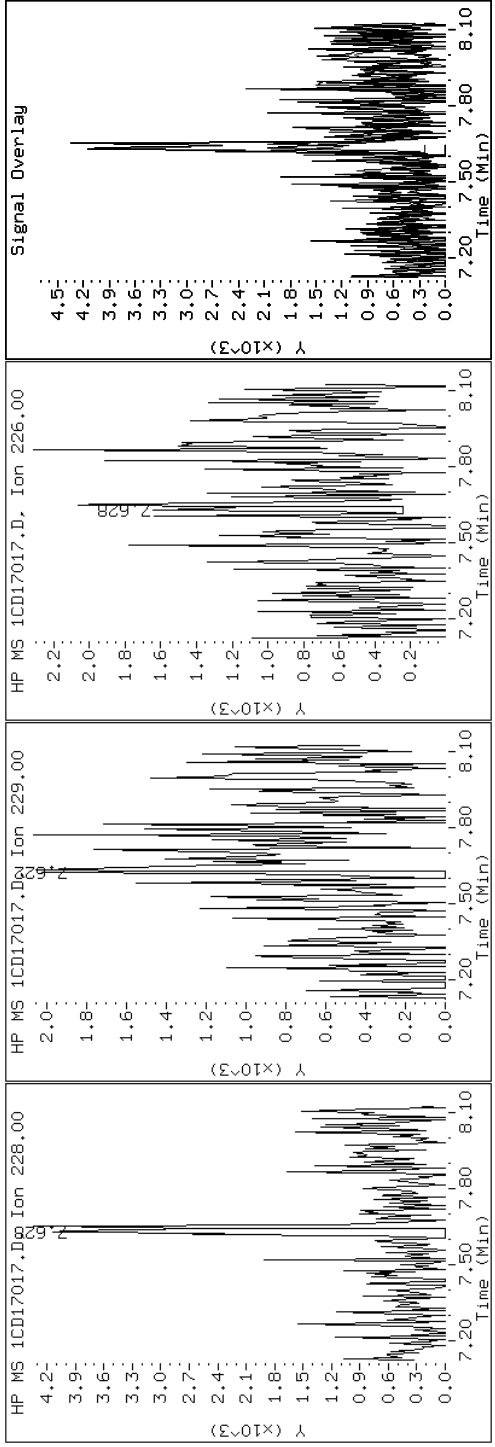
Client ID: CVI091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

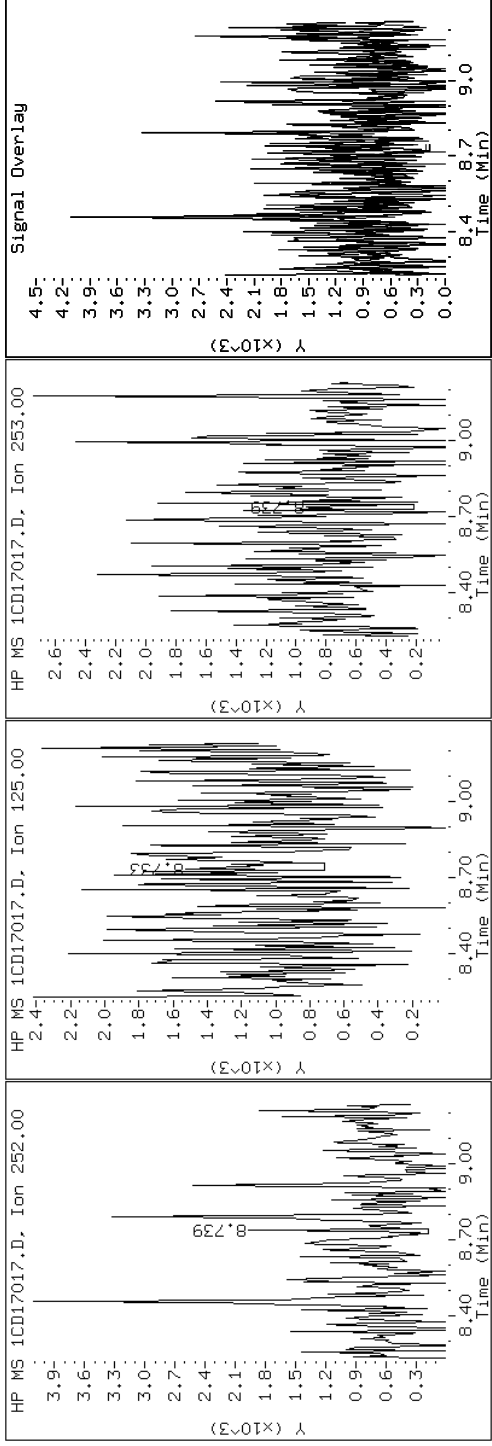
Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD17017.D

Date: 17-APR-2013 14:34

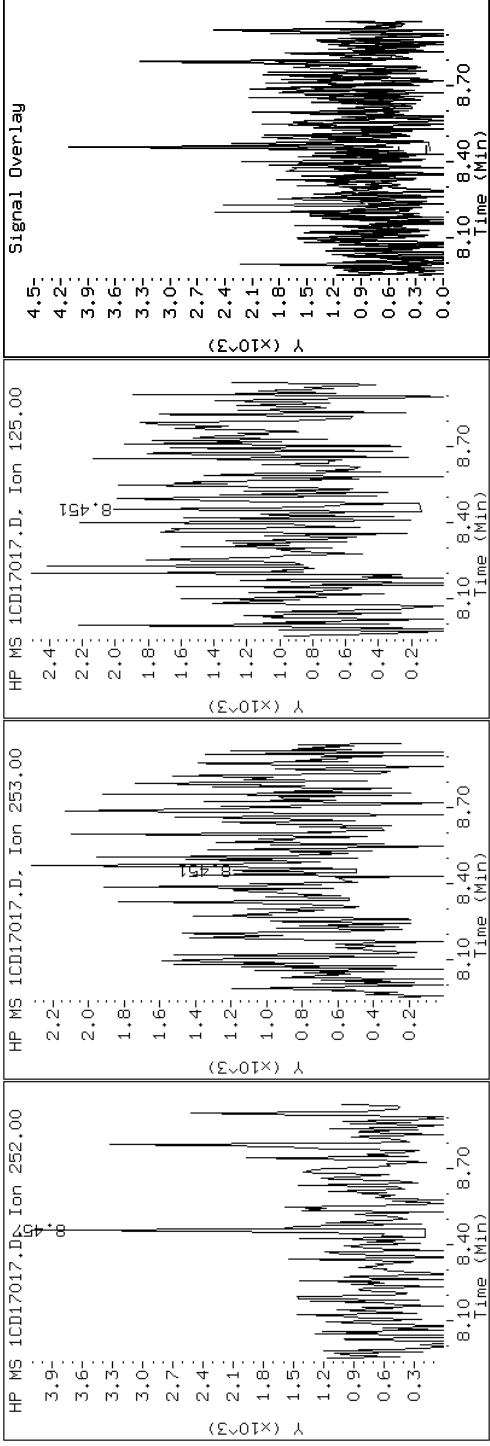
Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

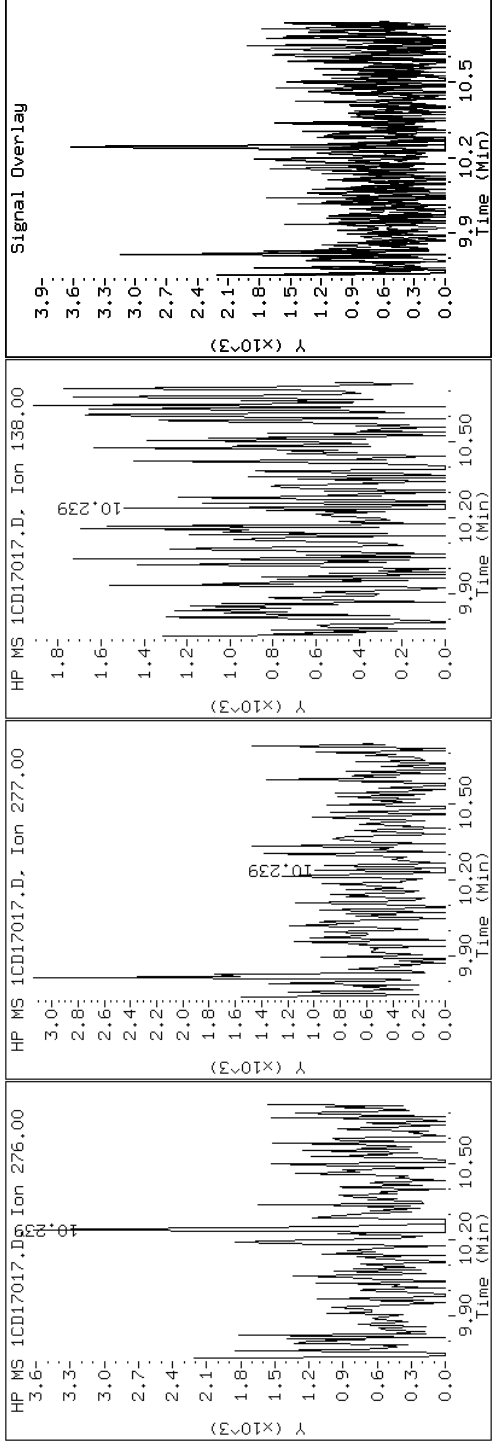
Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

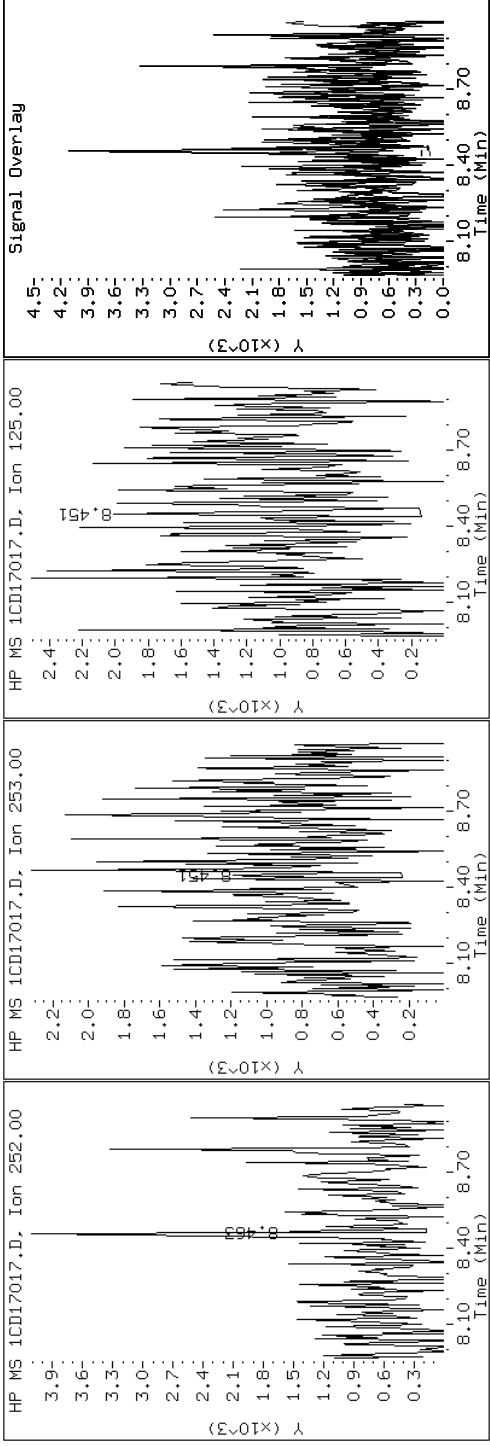
Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

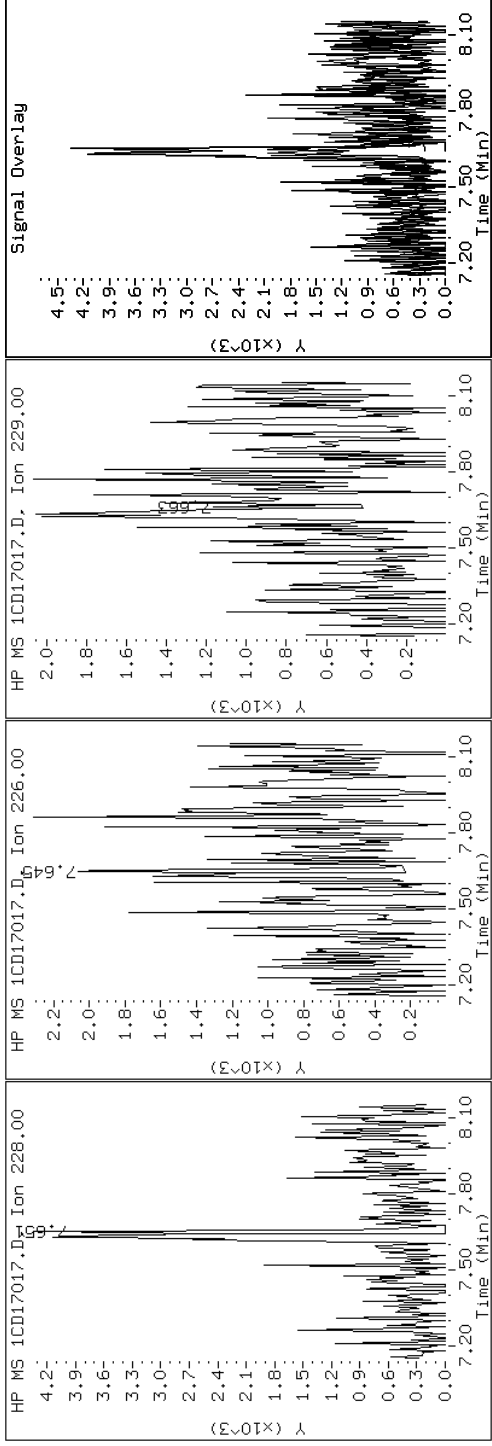
Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

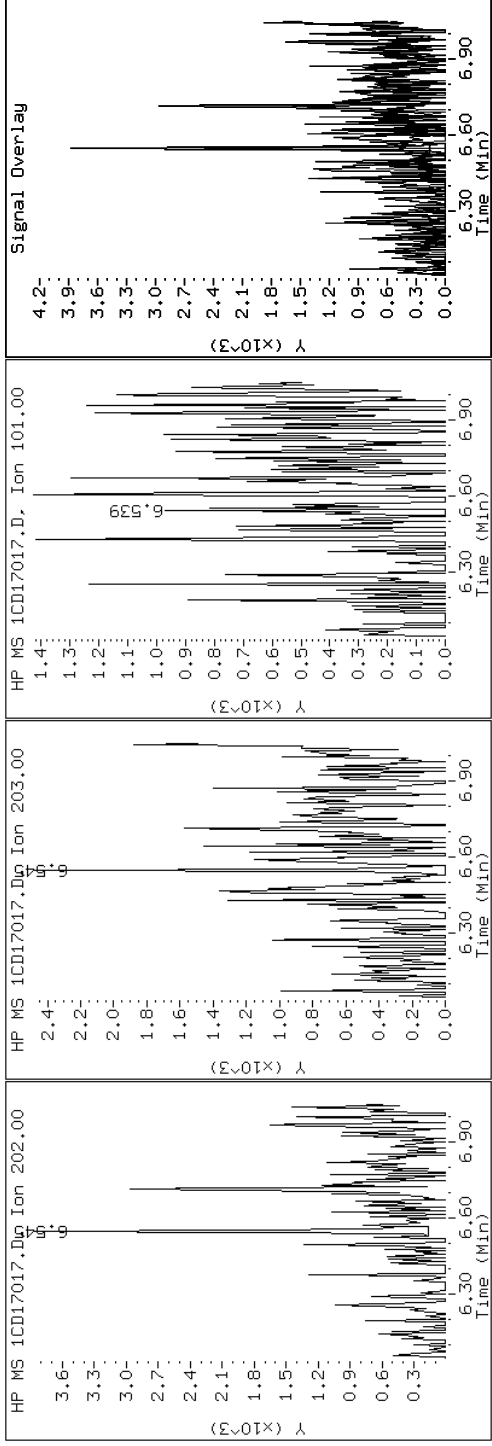
Client ID: CVI091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

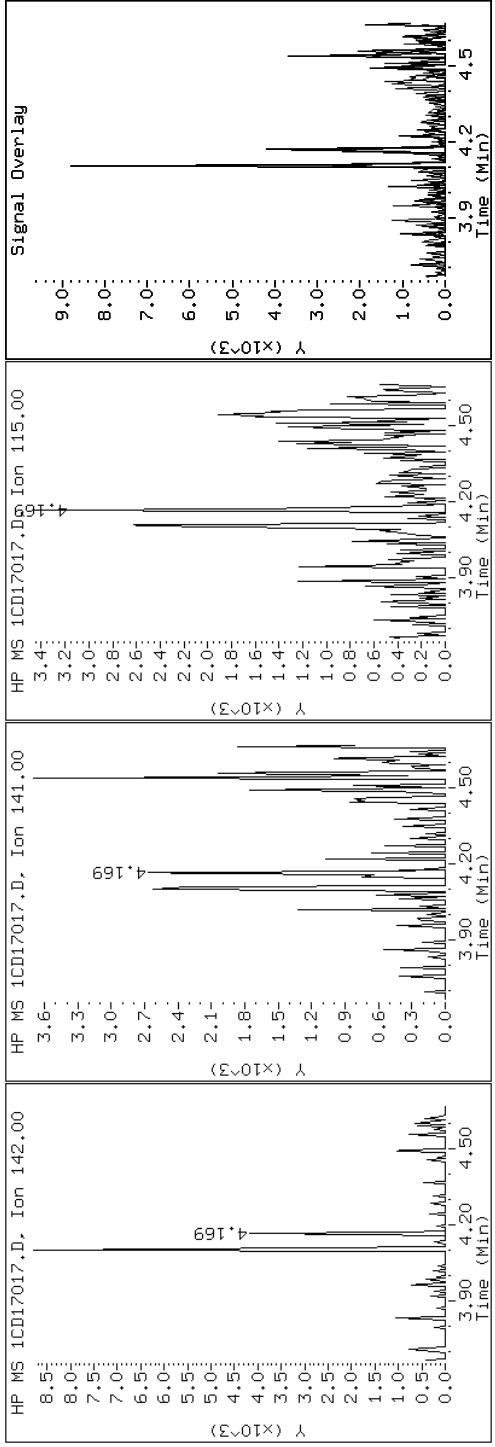
Client ID: CVI091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

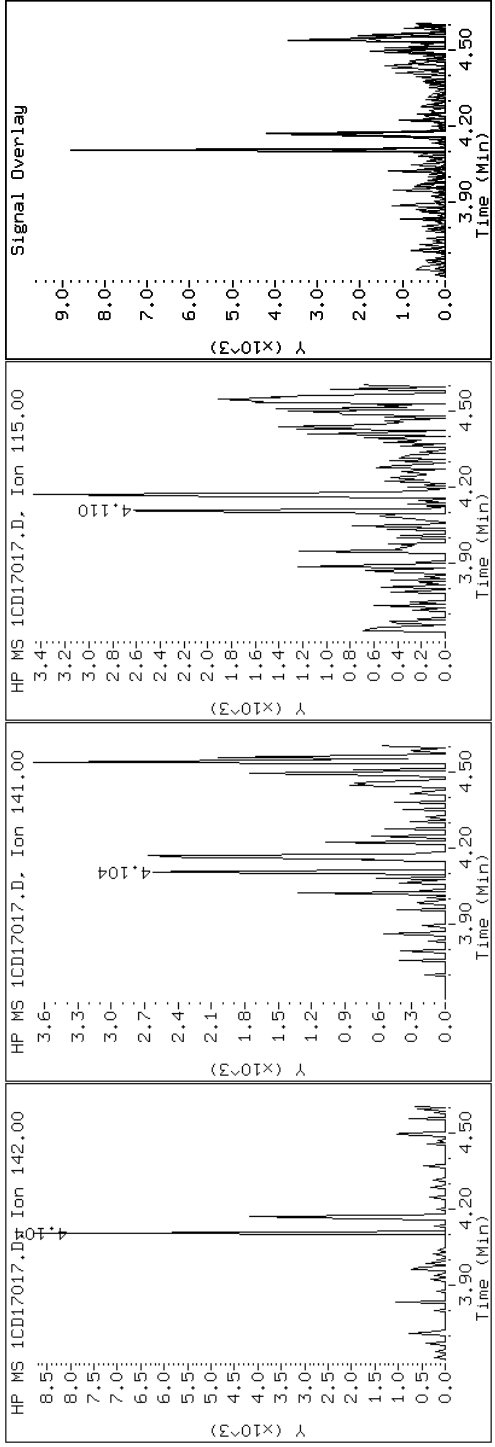
Client ID: CVI091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

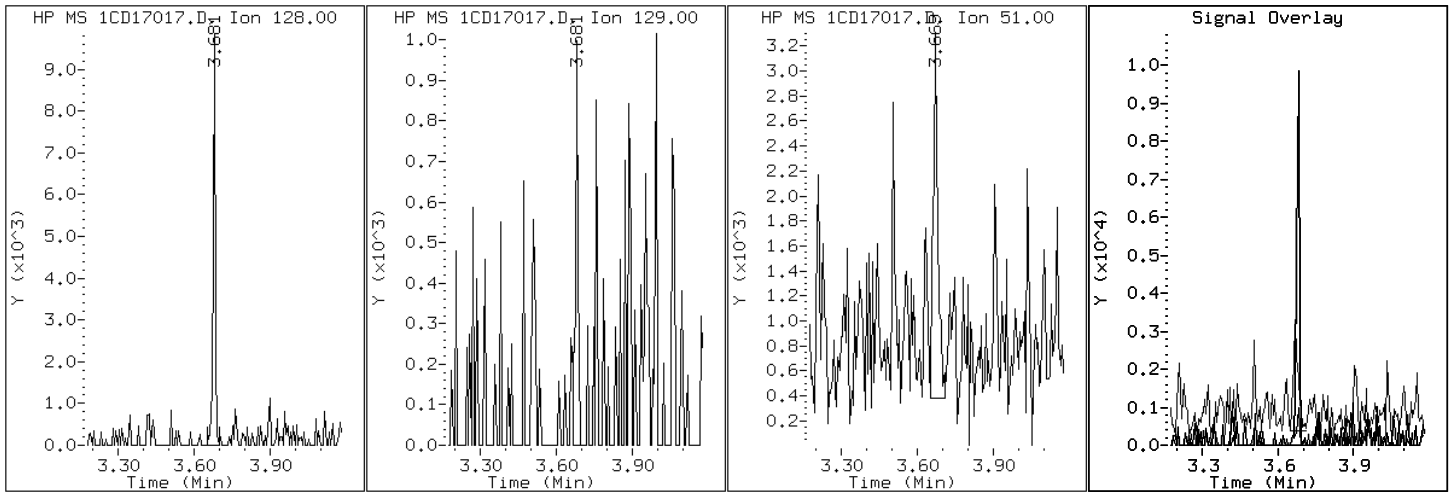
Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

2 Naphthalene





Data File: 1CD17017.D

Date: 17-APR-2013 14:34

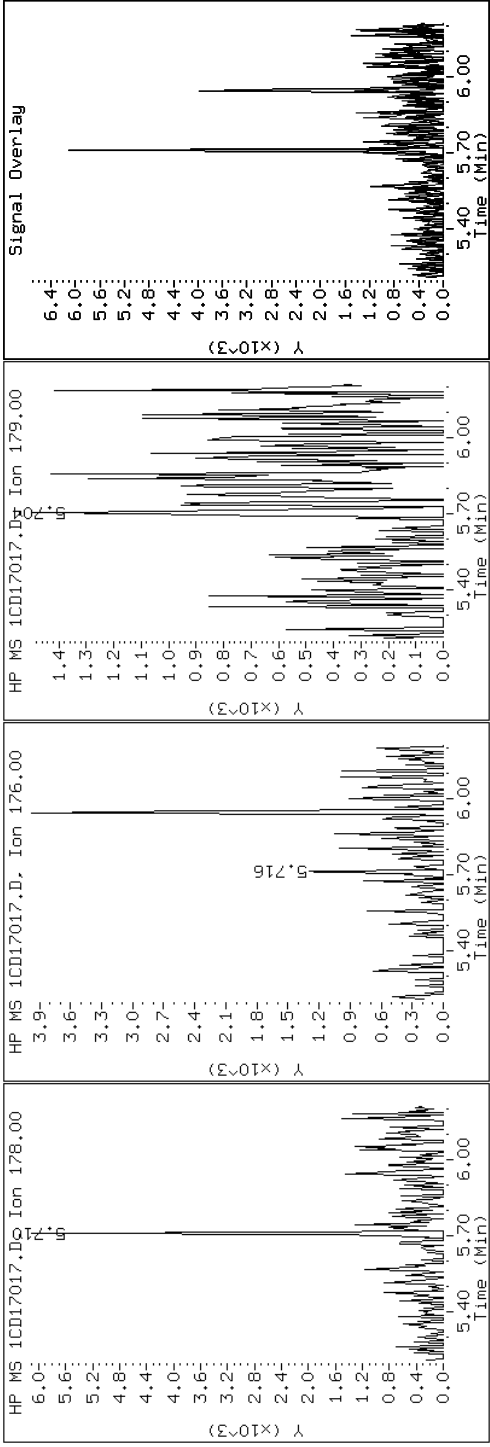
Client ID: CVI091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17017.D

Date: 17-APR-2013 14:34

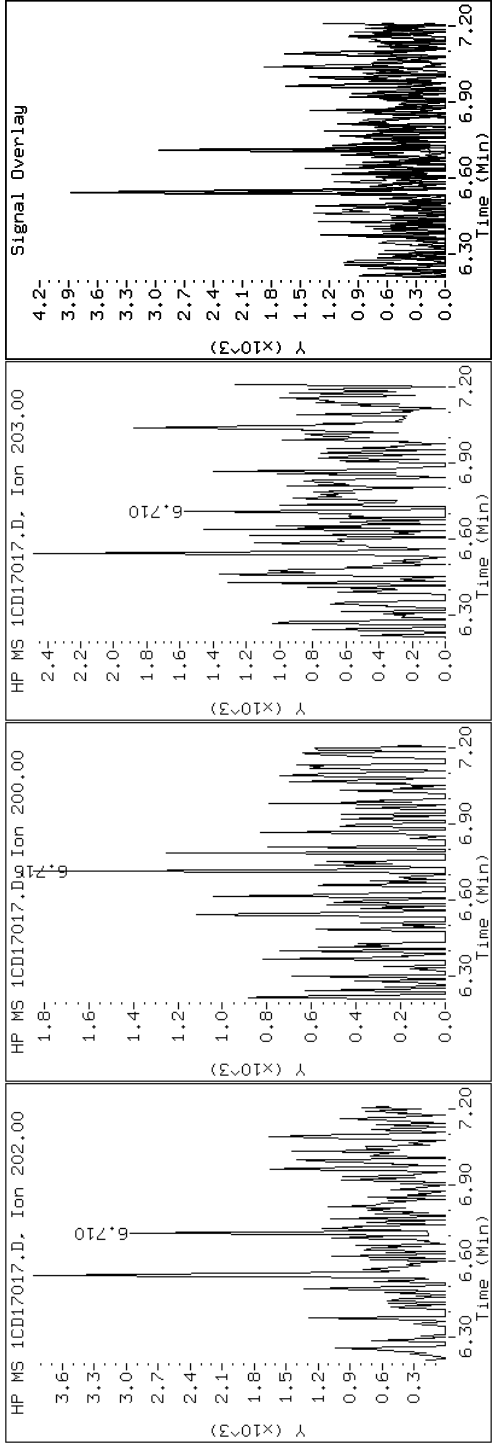
Client ID: CV1091A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-12-a

Operator: SCC

16 Pyrene

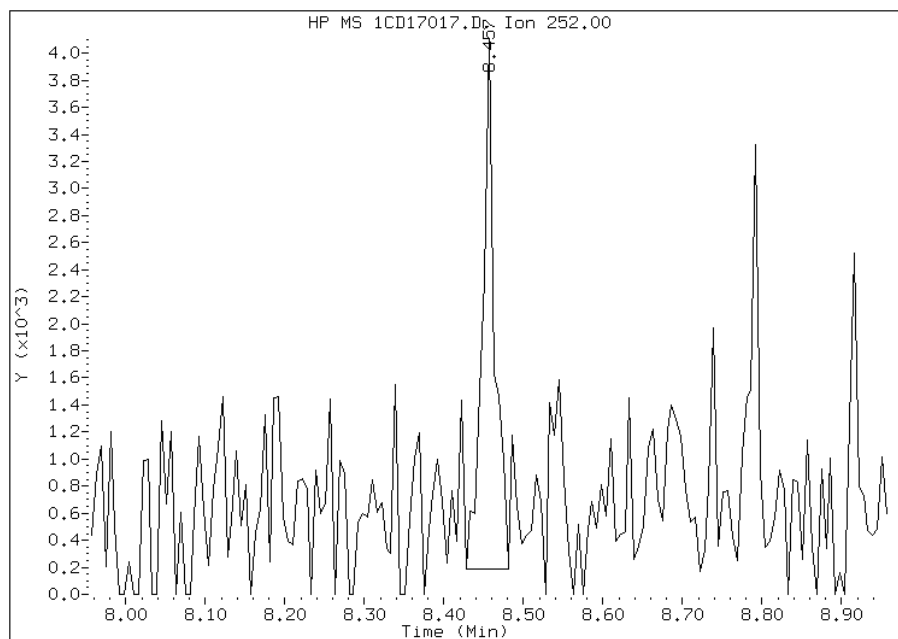


# Manual Integration Report

Data File: 1CD17017.D  
Inj. Date and Time: 17-APR-2013 14:34  
Instrument ID: BSMC5973.i  
Client ID: CV1091A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

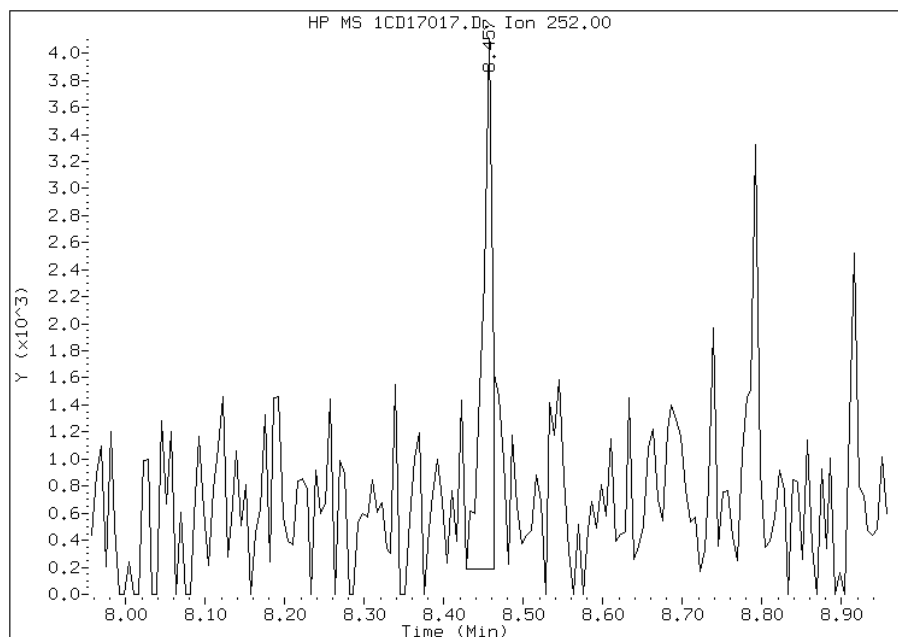
## Processing Integration Results

RT: 8.46  
Response: 4139  
Amount: 0  
Conc: 43



## Manual Integration Results

RT: 8.46  
Response: 3394  
Amount: 0  
Conc: 36



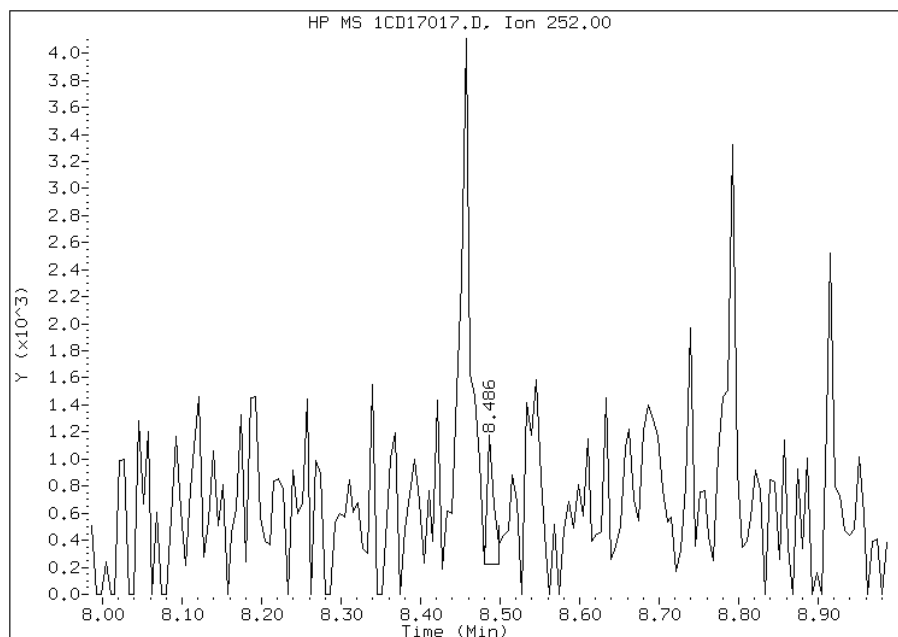
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 16:01  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD17017.D  
Inj. Date and Time: 17-APR-2013 14:34  
Instrument ID: BSMC5973.i  
Client ID: CV1091A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

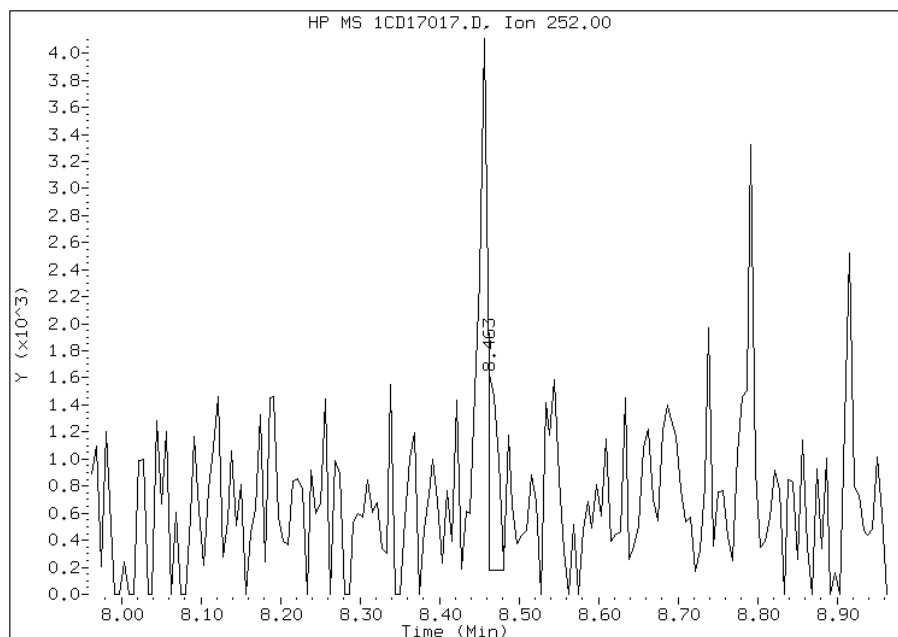
## Processing Integration Results

RT: 8.49  
Response: 536  
Amount: 0  
Conc: 5



## Manual Integration Results

RT: 8.46  
Response: 1272  
Amount: 0  
Conc: 12



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 16:01  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1357A-CS Lab Sample ID: 680-89275-13  
 Matrix: Solid Lab File ID: 1CD17018.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 13:25  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.21(g) Date Analyzed: 04/17/2013 14:53  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	33	J	54	6.7
120-12-7	Anthracene	55		11	5.7
56-55-3	Benzo[a]anthracene	240		11	5.3
50-32-8	Benzo[a]pyrene	230		14	7.0
205-99-2	Benzo[b]fluoranthene	380		16	8.2
191-24-2	Benzo[g,h,i]perylene	160		27	5.9
207-08-9	Benzo[k]fluoranthene	120		11	4.9
218-01-9	Chrysene	270		12	6.1
53-70-3	Dibenz(a,h)anthracene	78		27	5.5
206-44-0	Fluoranthene	370		27	5.4
86-73-7	Fluorene	33		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	180		27	9.6
90-12-0	1-Methylnaphthalene	130		54	5.9
91-57-6	2-Methylnaphthalene	210		54	9.6
91-20-3	Naphthalene	130		54	5.9
85-01-8	Phenanthrene	310		11	5.3
129-00-0	Pyrene	280		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	39		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17018.D  
 Lab Smp Id: 680-89275-A-13-A Client Smp ID: CV1357A-CS  
 Inj Date : 17-APR-2013 14:53  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-13-a  
 Misc Info : 680-89275-A-13-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 18  
 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	15.210	Weight Extracted
M	26.802	% 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	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.668	3.663	(1.000)	347478	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	247310	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	427165	40.0000		
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	23020	3.94398	354.2478	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	544323	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	454699	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	13897	1.47953	132.8909(Q)	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	13224	2.37781	213.5747	
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	8876	1.47938	132.8779(Q)	
5 Acenaphthylene	152		4.668	4.663	(0.983)	3876	0.36987	33.2214	
9 Fluorene	166		5.092	5.092	(1.072)	2979	0.37067	33.2937(Q)	
11 Phenanthrene	178		5.715	5.709	(1.003)	43600	3.48259	312.8064	
12 Anthracene	178		5.745	5.745	(1.008)	7532	0.60737	54.5537	
13 Carbazole	167		5.857	5.851	(1.028)	4435	0.38399	34.4901	

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
-----	----		-----	-----	-----	-----	-----	-----	
15 Fluoranthene	202		6.545	6.545	(1.149)	57132	4.12287	370.3163	
16 Pyrene	202		6.709	6.709	(0.879)	48907	3.15826	283.6749	
17 Benzo(a)anthracene	228		7.621	7.621	(0.998)	41769	2.71361	243.7367	
19 Chrysene	228		7.651	7.651	(1.002)	45656	2.99838	269.3139	
20 Benzo(b)fluoranthene	252		8.456	8.450	(0.962)	49217	4.28550	384.9236(M)	
21 Benzo(k)fluoranthene	252		8.474	8.468	(0.964)	17874	1.37541	123.5394(QM)	
22 Benzo(a)pyrene	252		8.739	8.733	(0.994)	30230	2.54646	228.7227	
24 Indeno(1,2,3-cd)pyrene	276		9.909	9.903	(1.127)	15795	1.97865	177.7219(M)	
25 Dibenzo(a,h)anthracene	278		9.915	9.915	(1.128)	4861	0.86451	77.6503(Q)	
26 Benzo(g,h,i)perylene	276		10.250	10.233	(1.166)	19357	1.73963	156.2531	

QC Flag Legend

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

Data File: 1CD17018.D

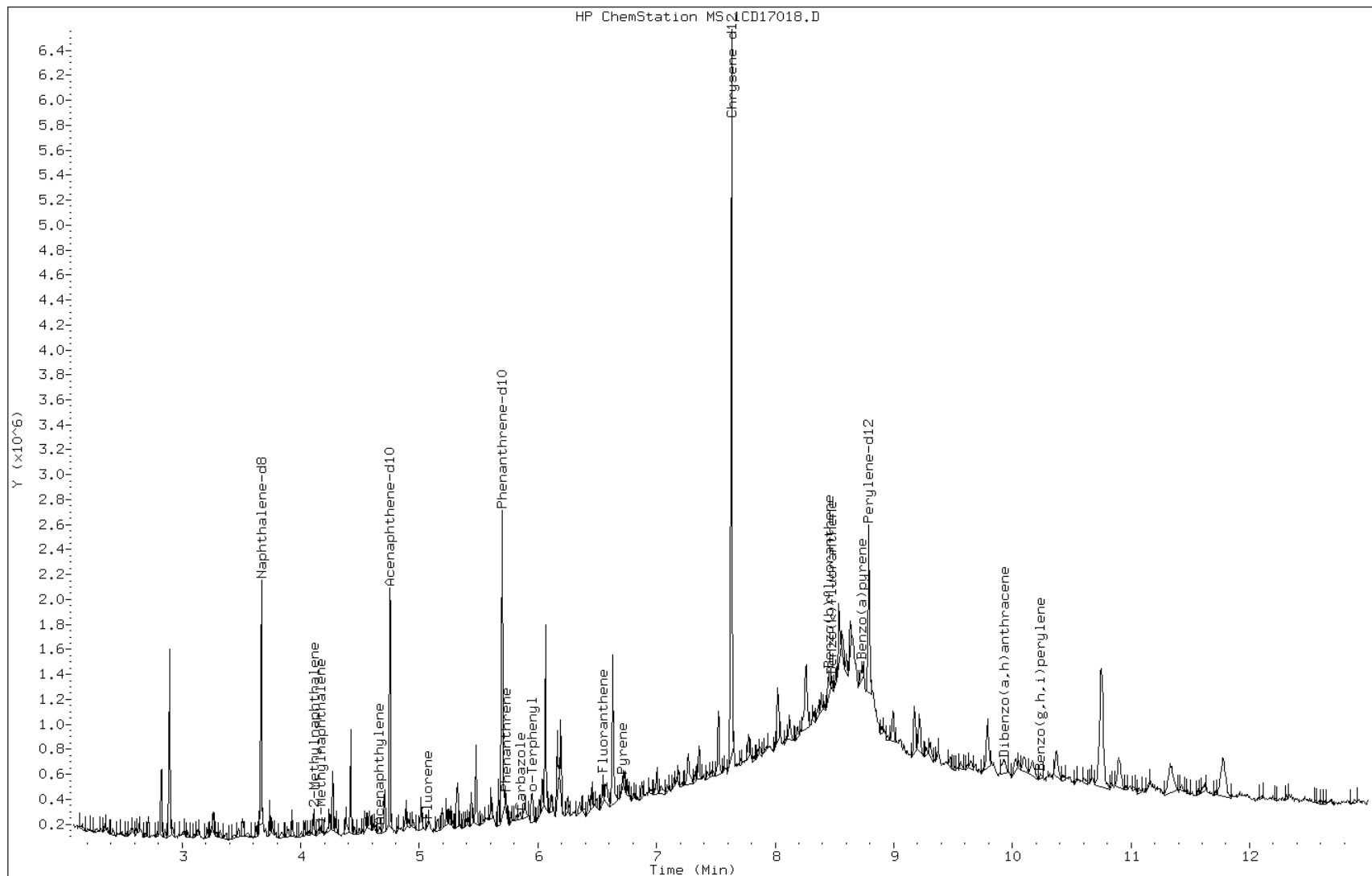
Date: 17-APR-2013 14:53

Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC





Data File: 1CD17018.D

Date: 17-APR-2013 14:53

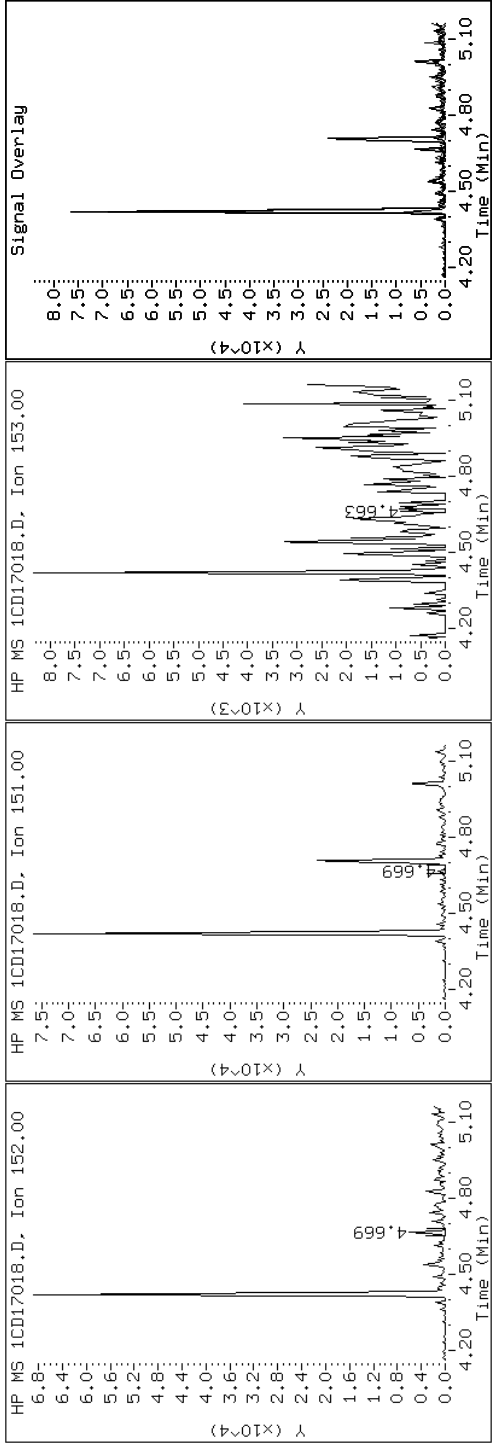
Client ID: CVI357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

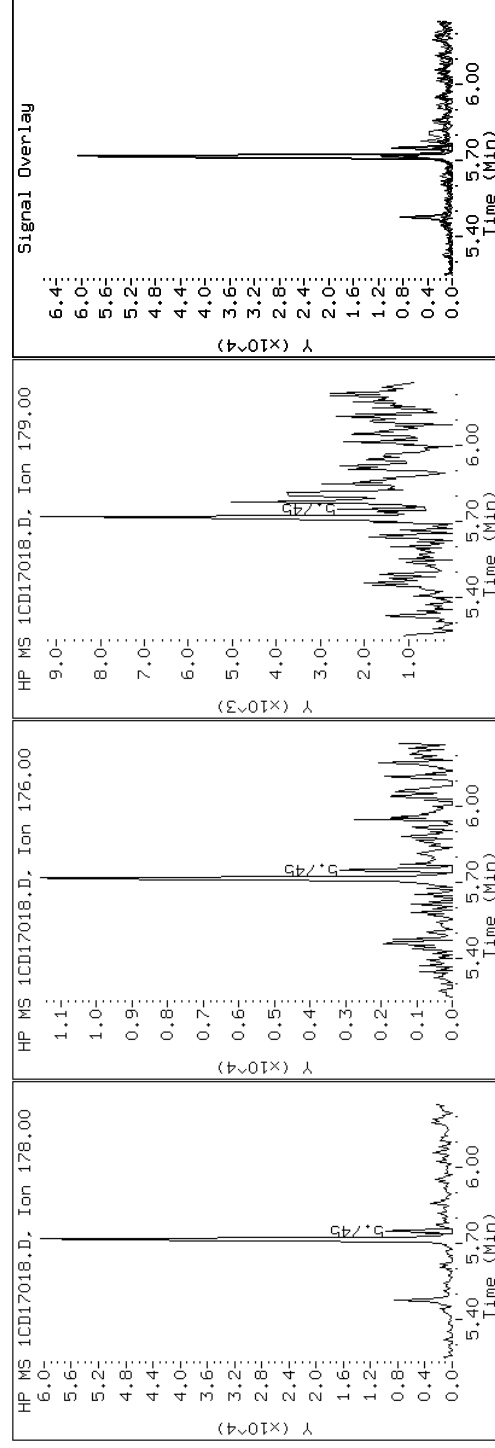
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

### 12 Anthracene



Data File: 1CDI7018.D

Date: 17-APR-2013 14:53

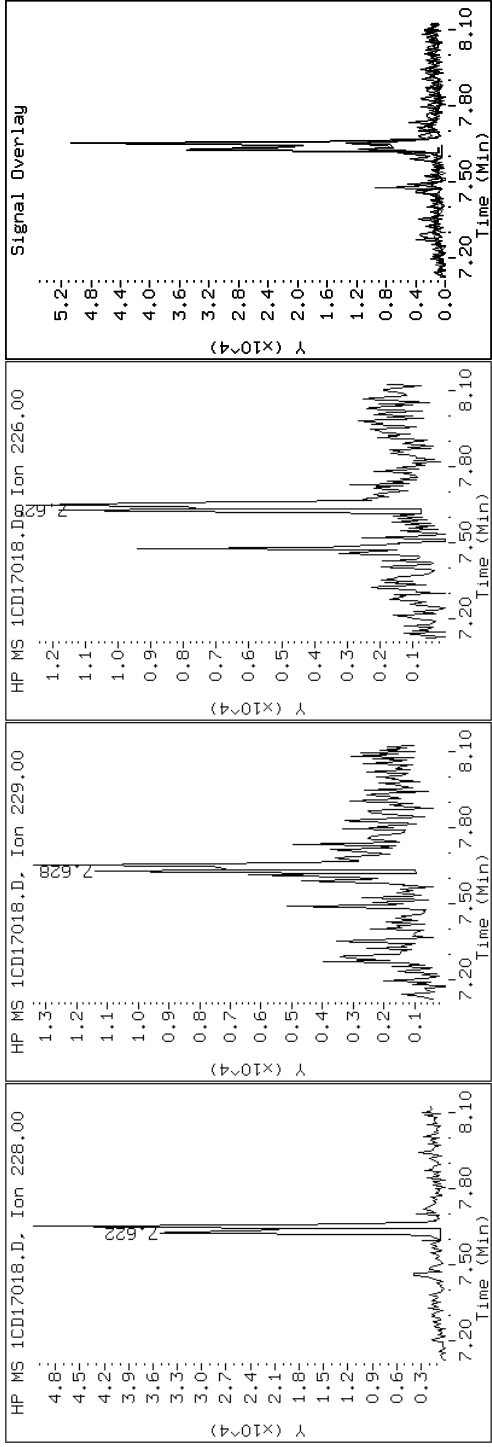
Client ID: CVI357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

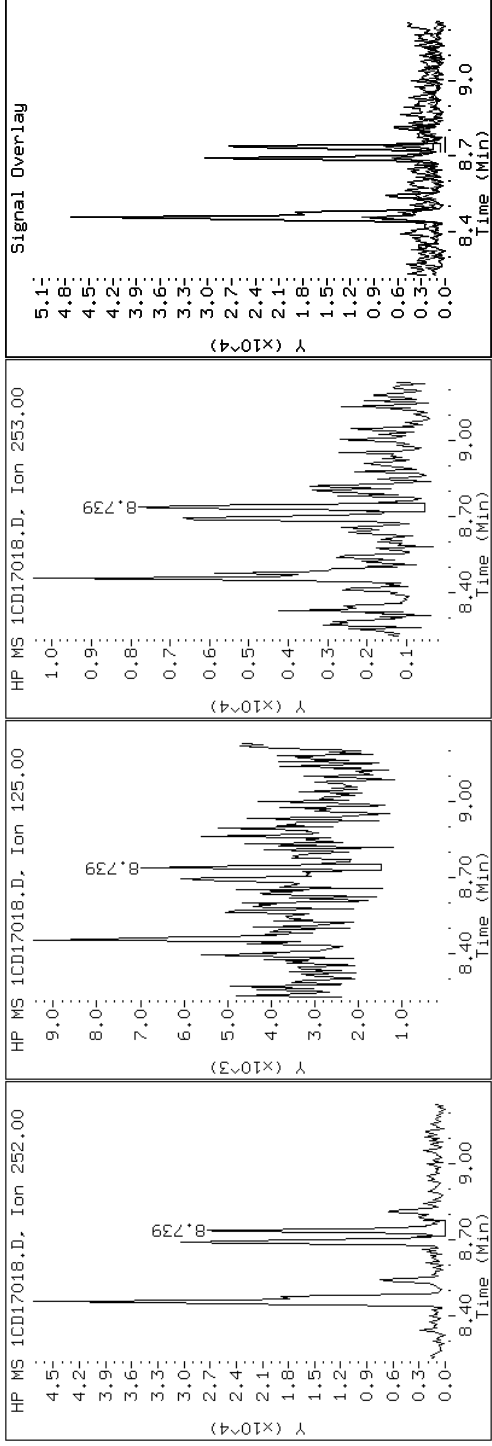
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

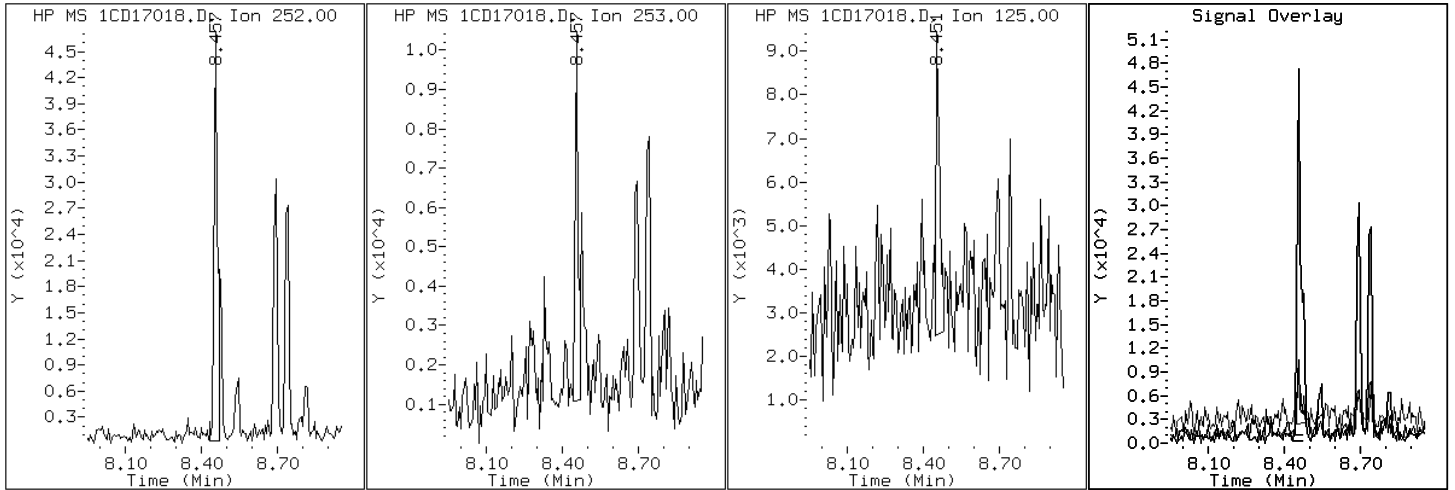
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

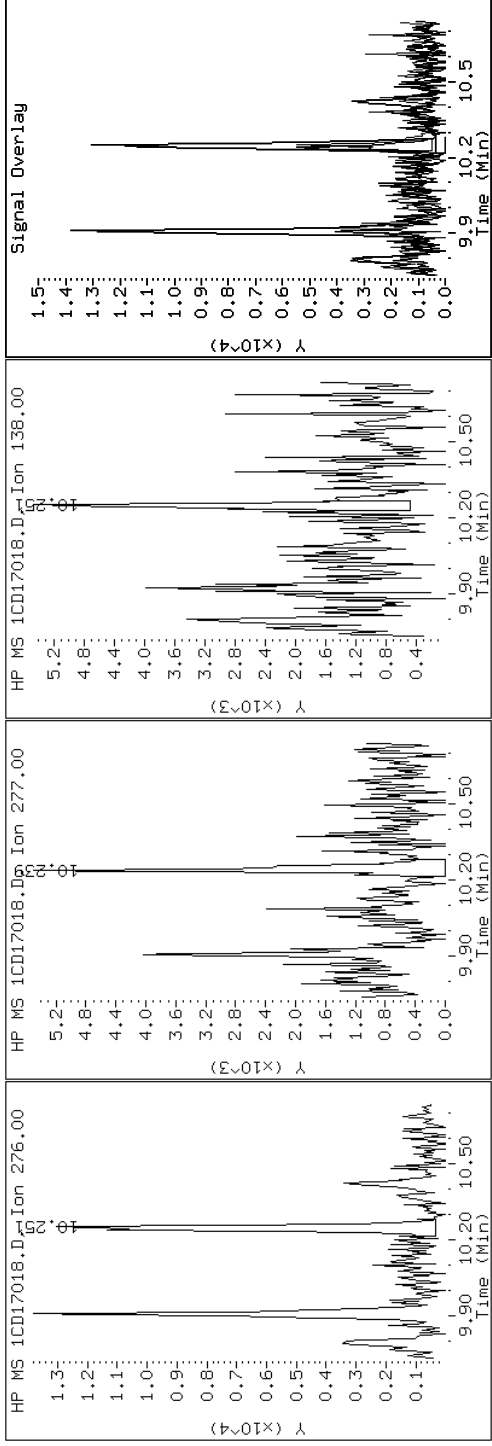
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

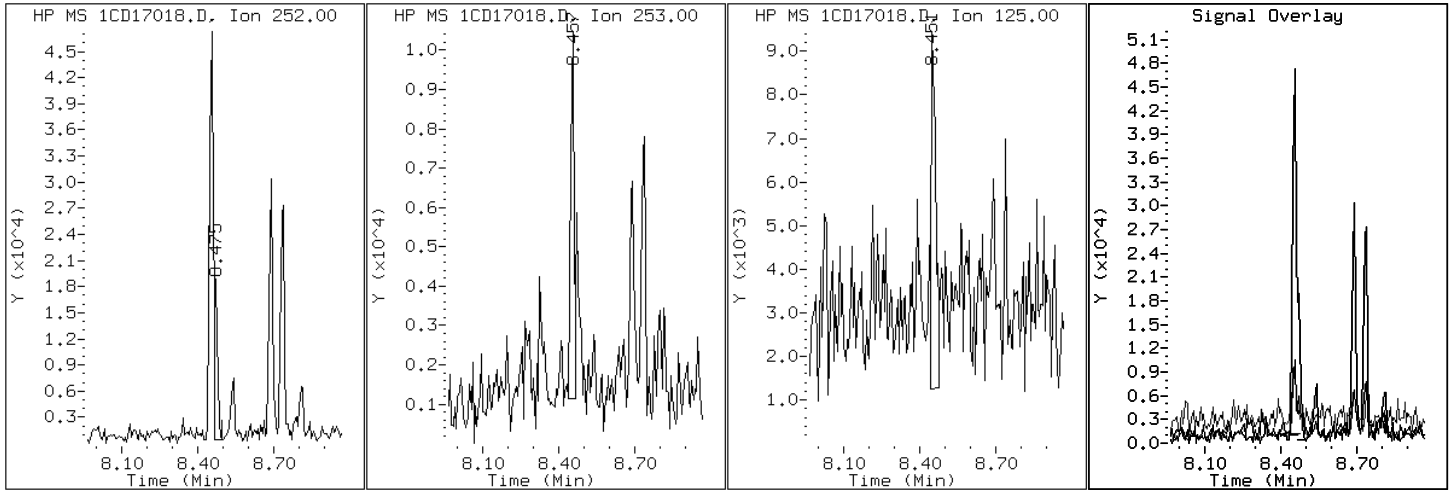
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CDI7018.D

Date: 17-APR-2013 14:53

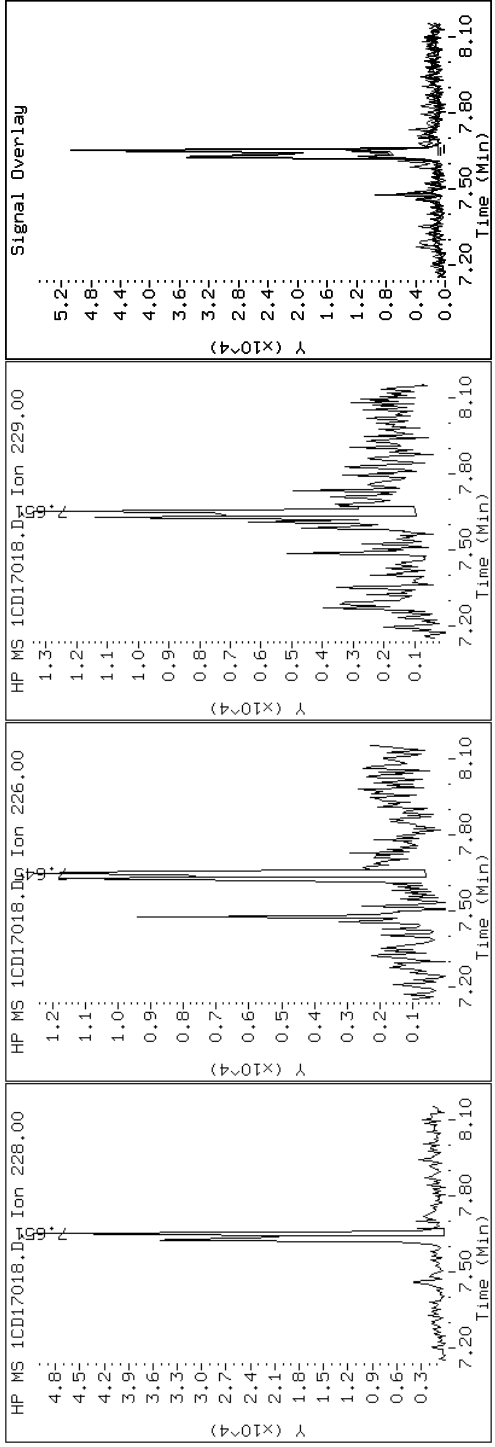
Client ID: CVI357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

19 Chrysene





Data File: 1CD17018.D

Date: 17-APR-2013 14:53

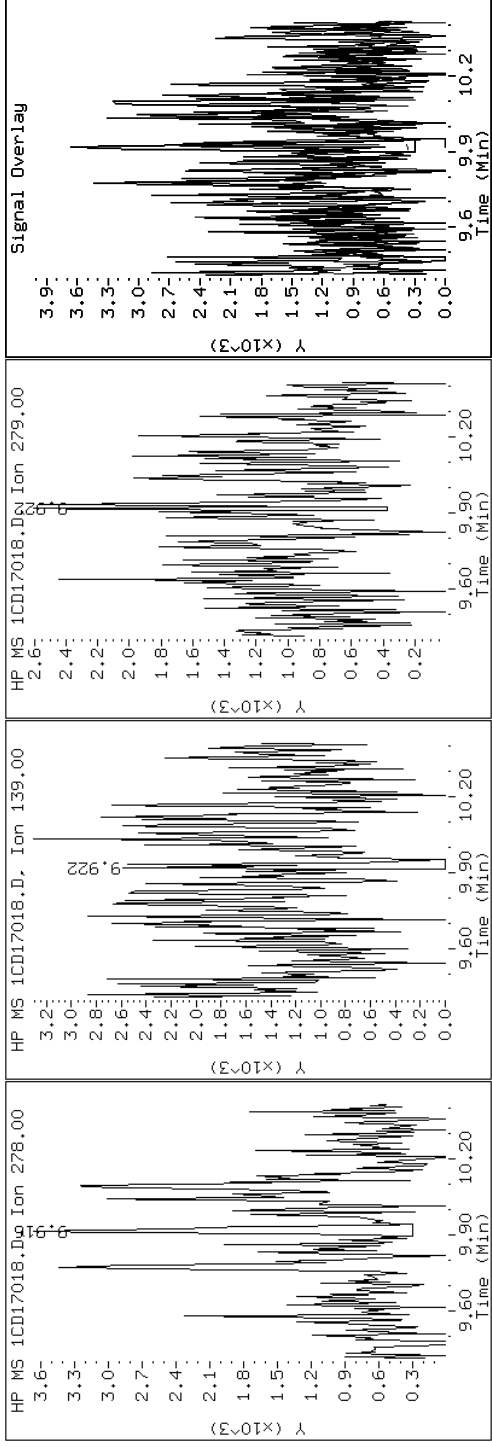
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

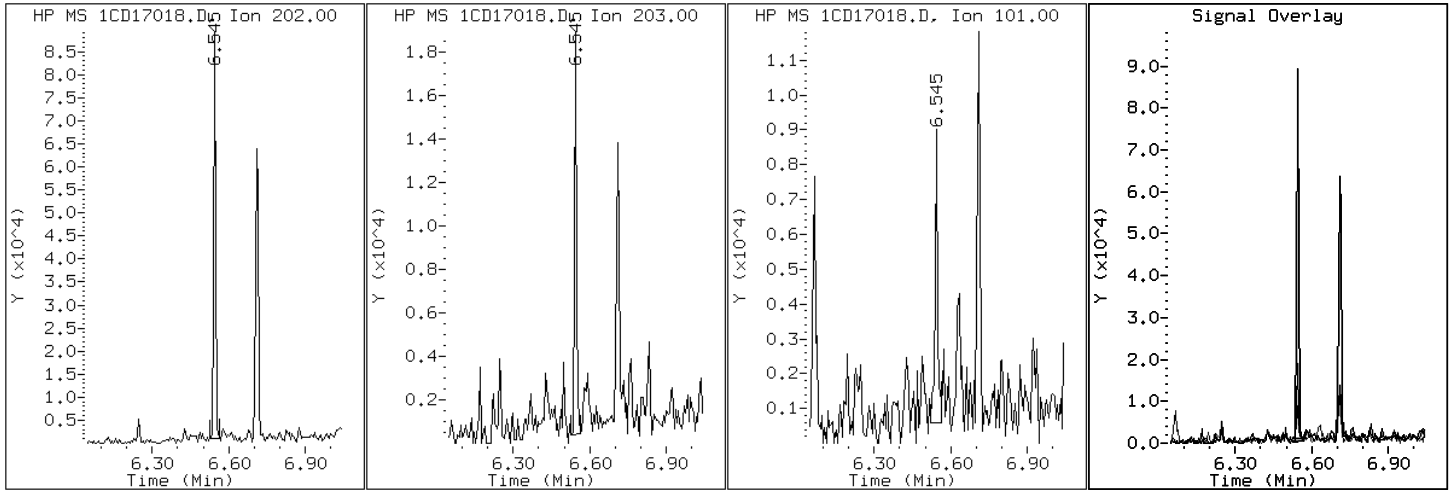
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1CDI7018.D

Date: 17-APR-2013 14:53

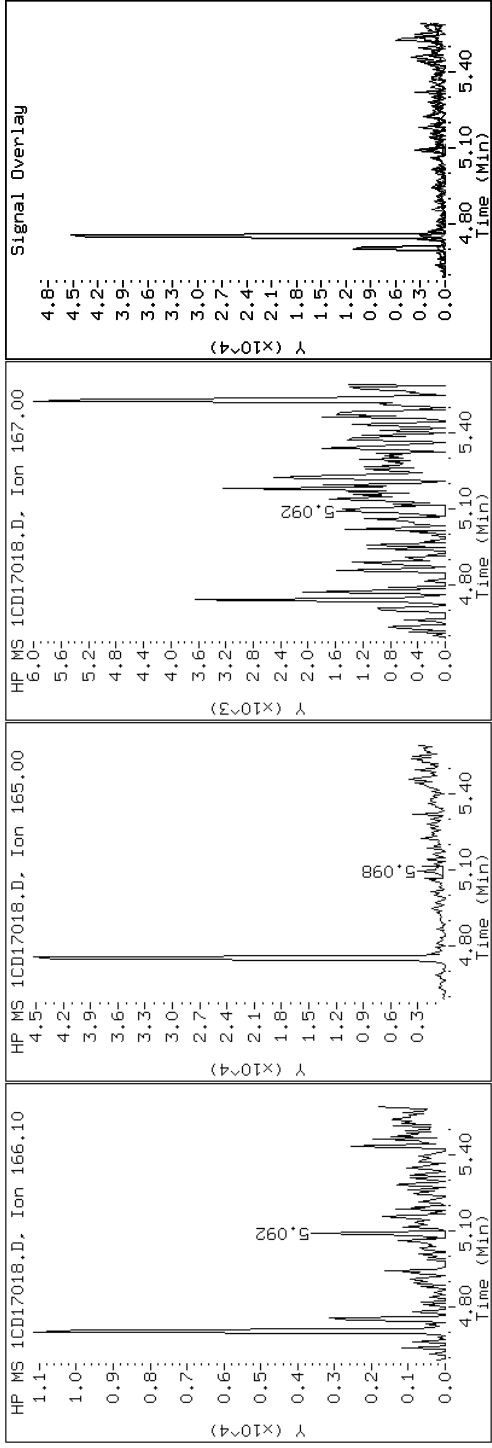
Client ID: CVI357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

9 Fluorene



Data File: 1CDI7018.D

Date: 17-APR-2013 14:53

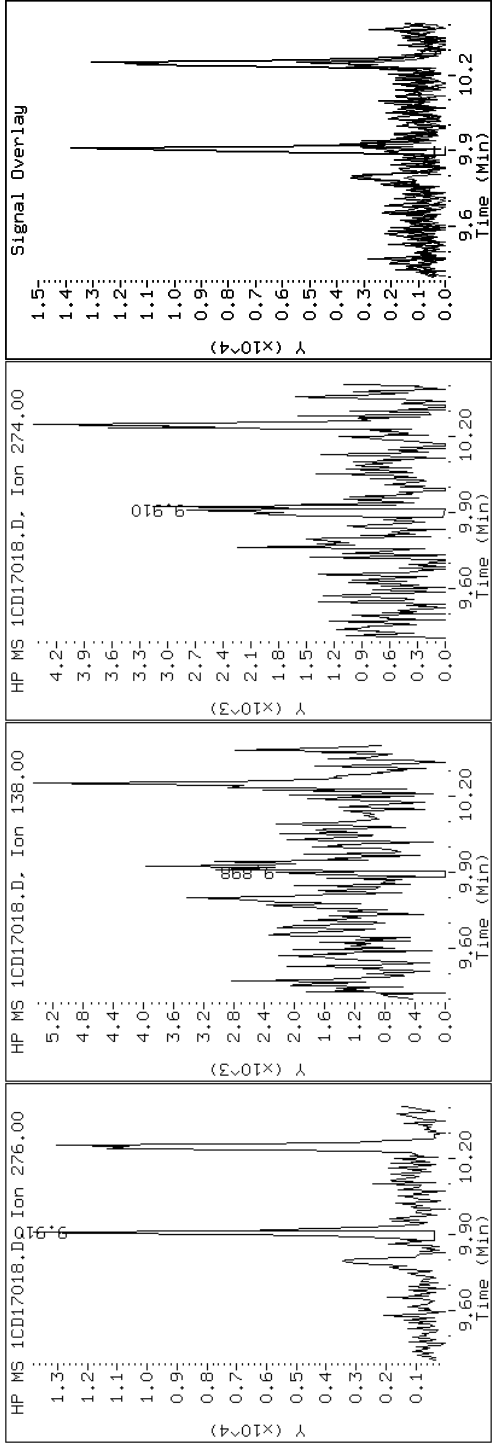
Client ID: CVI357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

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



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

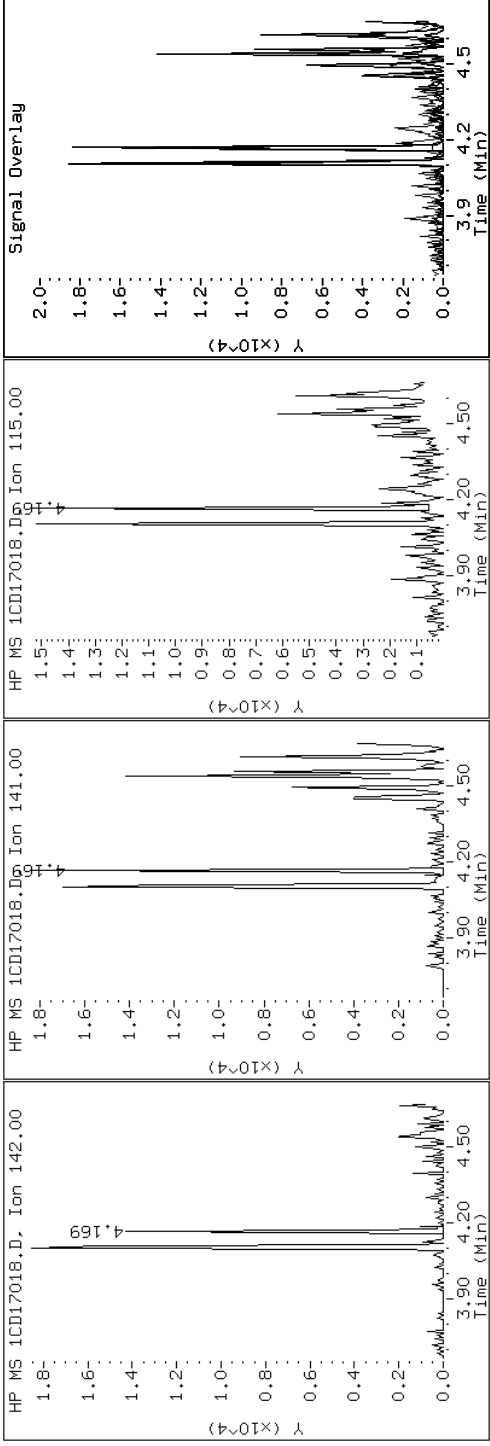
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

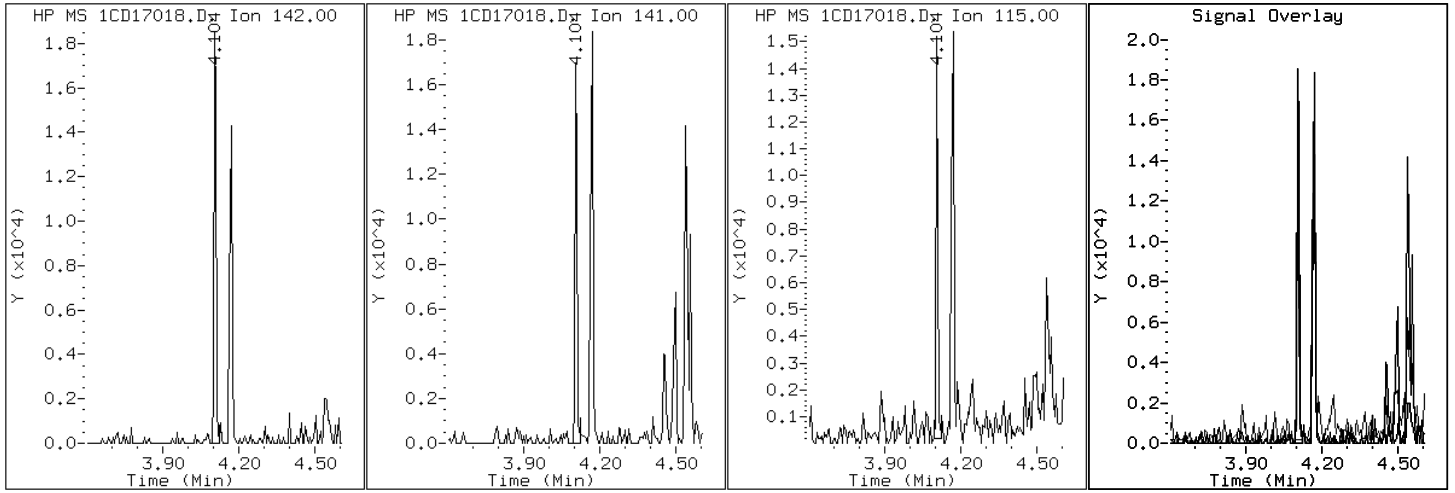
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

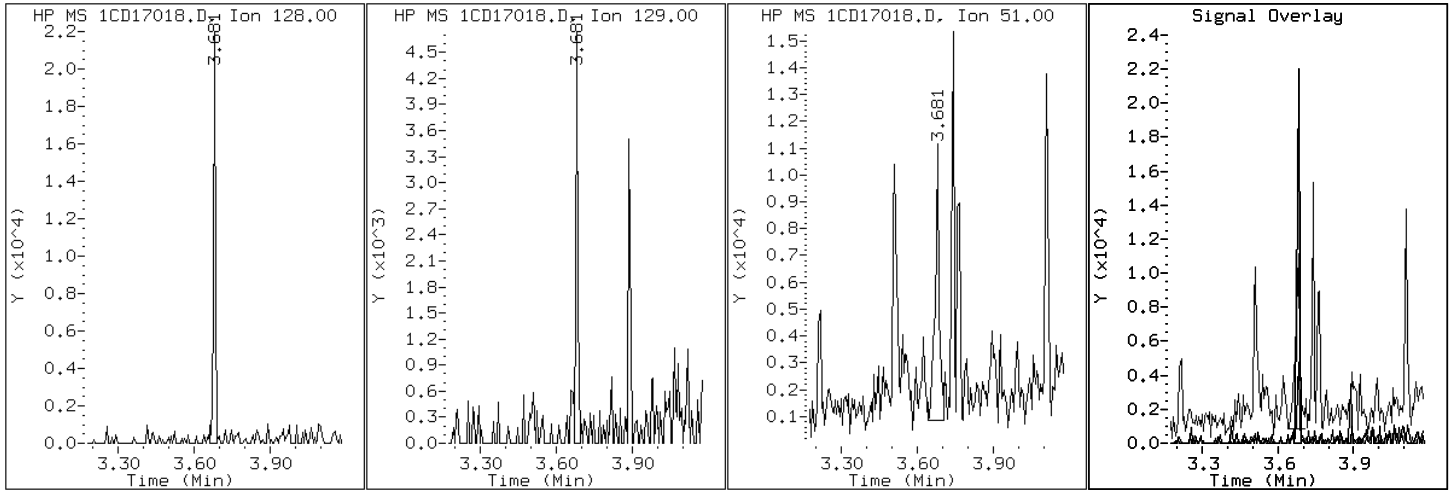
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CD17018.D

Date: 17-APR-2013 14:53

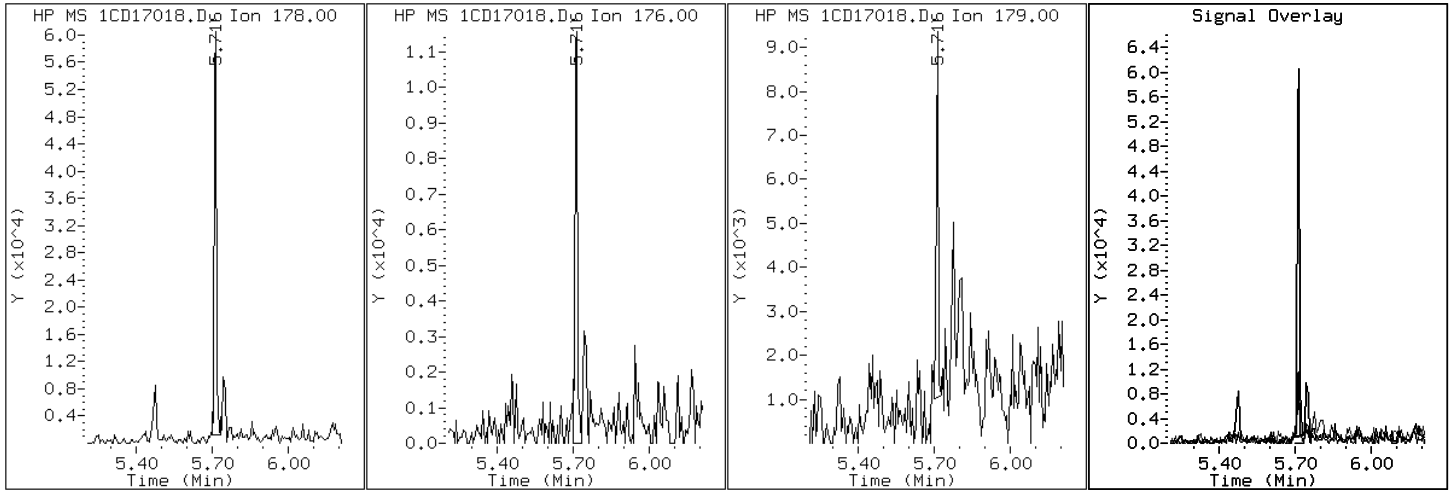
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

11 Phenanthrene





Data File: 1CD17018.D

Date: 17-APR-2013 14:53

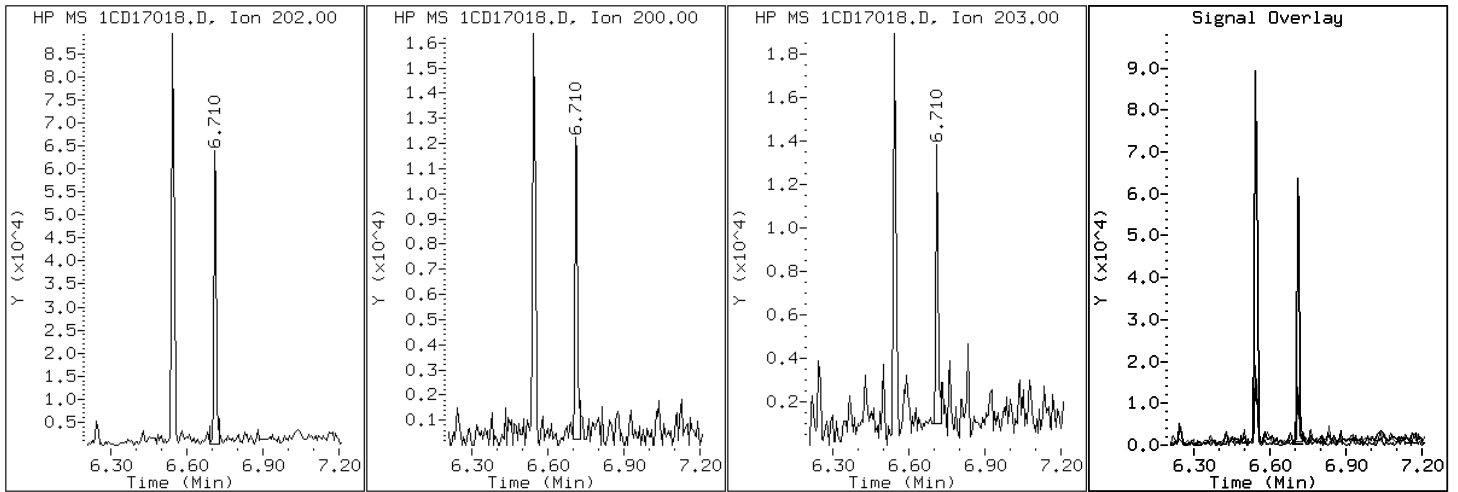
Client ID: CV1357A-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-13-a

Operator: SCC

16 Pyrene

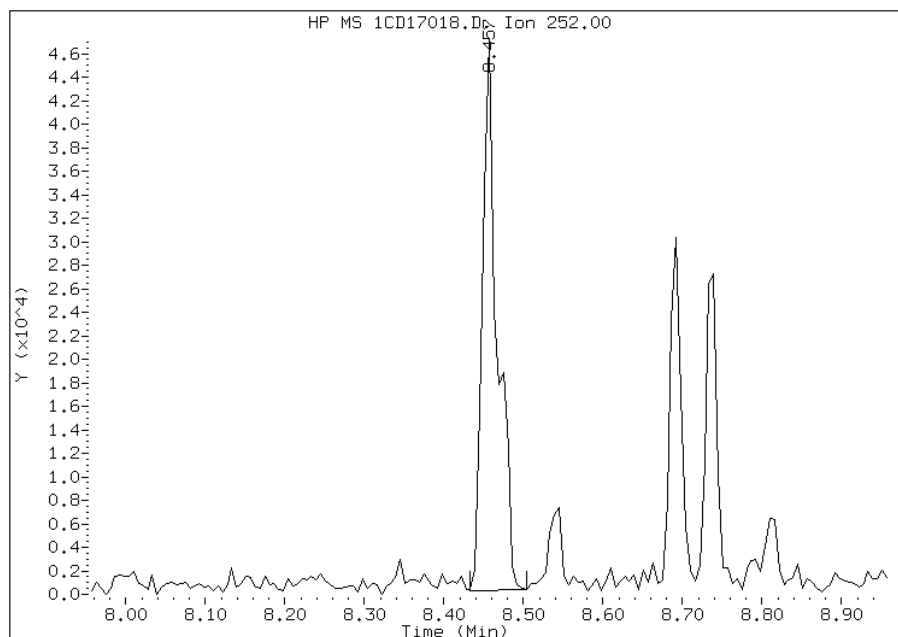


# Manual Integration Report

Data File: 1CD17018.D  
Inj. Date and Time: 17-APR-2013 14:53  
Instrument ID: BSMC5973.i  
Client ID: CV1357A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

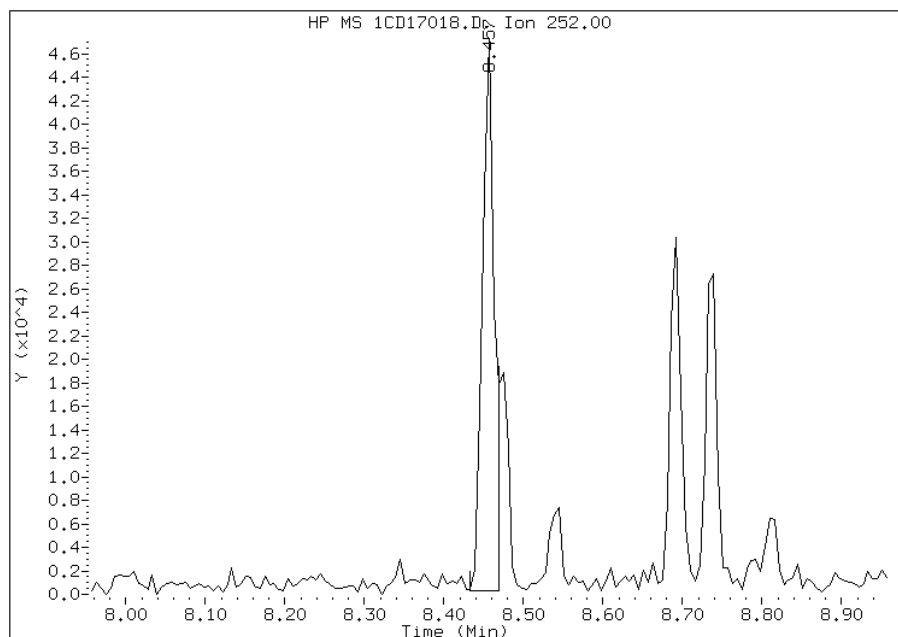
## Processing Integration Results

RT: 8.46  
Response: 60996  
Amount: 5  
Conc: 477



## Manual Integration Results

RT: 8.46  
Response: 49217  
Amount: 4  
Conc: 385



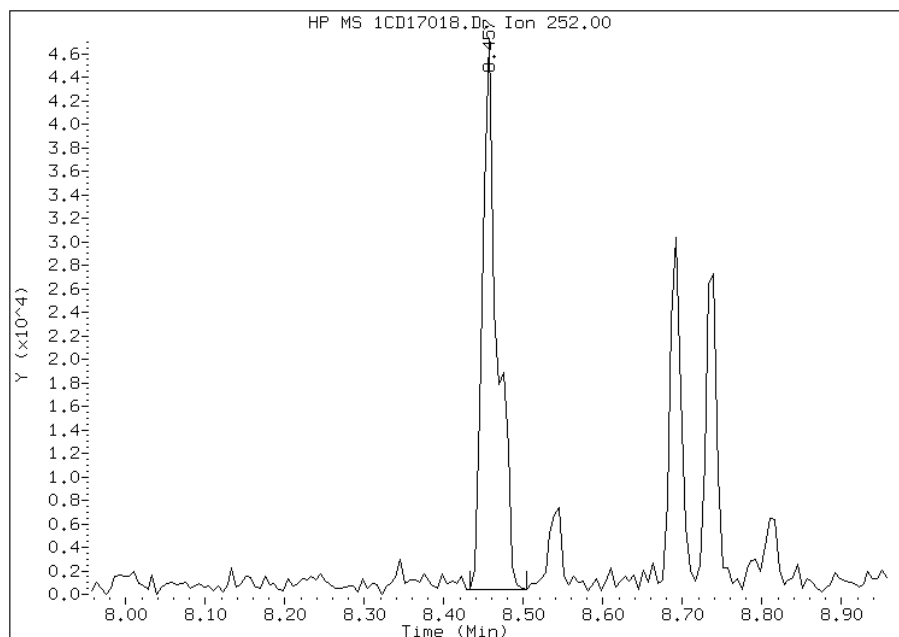
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 16:03  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD17018.D  
Inj. Date and Time: 17-APR-2013 14:53  
Instrument ID: BSMC5973.i  
Client ID: CV1357A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

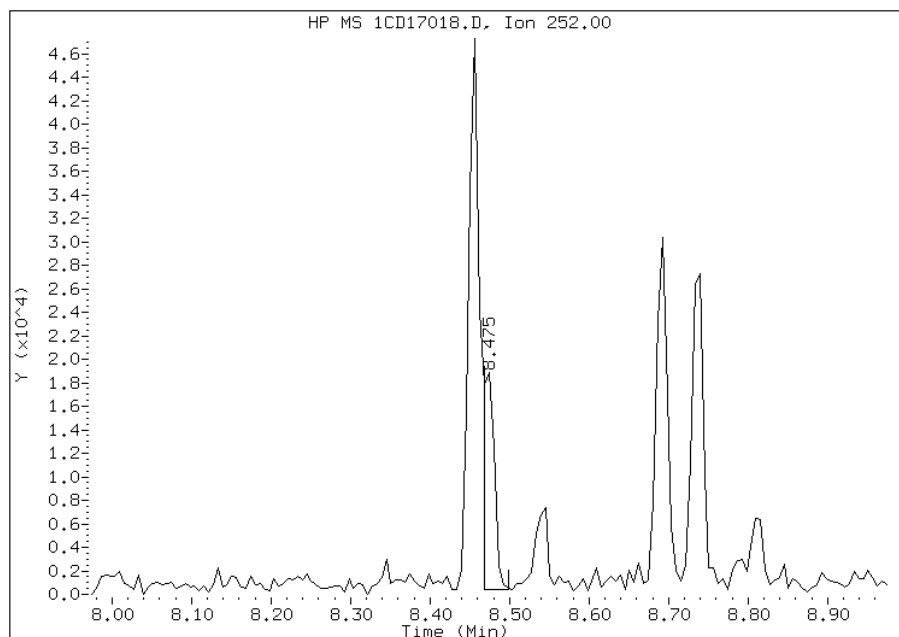
## Processing Integration Results

RT: 8.46  
Response: 60884  
Amount: 5  
Conc: 421



## Manual Integration Results

RT: 8.47  
Response: 17874  
Amount: 1  
Conc: 124



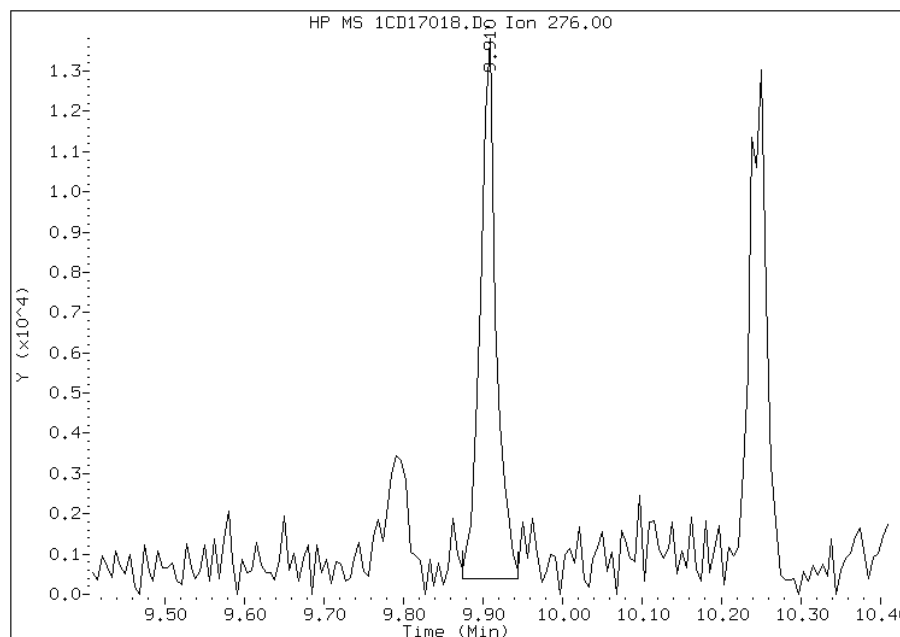
Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 16:03  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17018.D  
Inj. Date and Time: 17-APR-2013 14:53  
Instrument ID: BSMC5973.i  
Client ID: CV1357A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

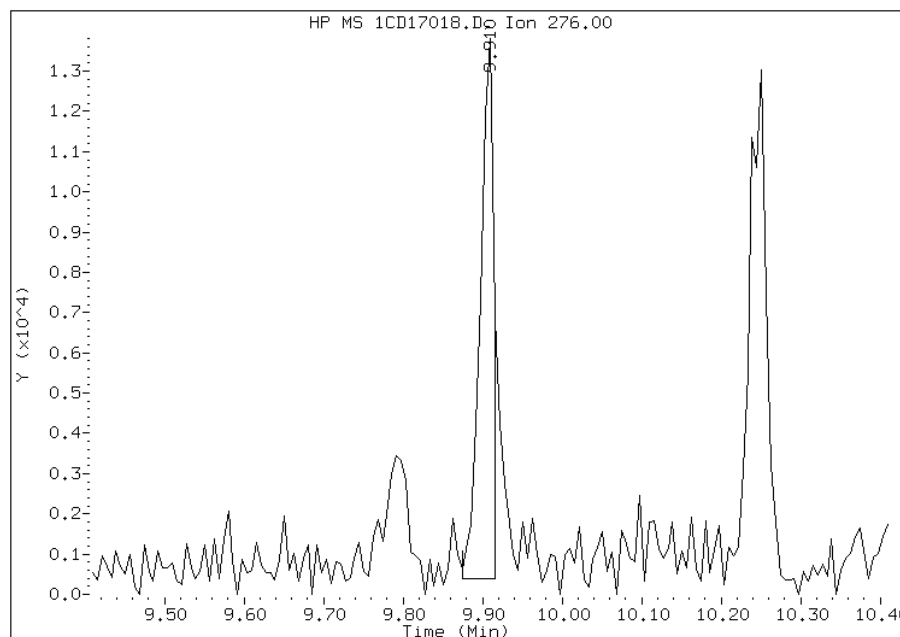
## Processing Integration Results

RT: 9.91  
Response: 18786  
Amount: 2  
Conc: 201



## Manual Integration Results

RT: 9.91  
Response: 15795  
Amount: 2  
Conc: 178



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 16:03  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV1357B-CS Lab Sample ID: 680-89275-14  
 Matrix: Solid Lab File ID: 1CD17019.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 13:35  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.01(g) Date Analyzed: 04/17/2013 15:11  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	31	J	42	21
56-55-3	Benzo[a]anthracene	250		40	20
50-32-8	Benzo[a]pyrene	240		52	26
205-99-2	Benzo[b]fluoranthene	240		61	31
191-24-2	Benzo[g,h,i]perylene	210		100	22
207-08-9	Benzo[k]fluoranthene	220		40	18
218-01-9	Chrysene	330		45	23
53-70-3	Dibenz(a,h)anthracene	100	U	100	21
206-44-0	Fluoranthene	340		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	320		100	36
90-12-0	1-Methylnaphthalene	160	J	200	22
91-57-6	2-Methylnaphthalene	290		200	36
91-20-3	Naphthalene	130	J	200	22
85-01-8	Phenanthrene	310		40	20
129-00-0	Pyrene	290		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17019.D  
 Lab Smp Id: 680-89275-A-14-A Client Smp ID: CV1357B-CS  
 Inj Date : 17-APR-2013 15:11  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-14-a  
 Misc Info : 680-89275-A-14-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 19  
 Dil Factor: 4.00000  
 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	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	20.323	% 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		3.669	3.663	(1.000)	323016	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	213342	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	397577	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.043)	4904	1.43452	479.7955
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	443515	40.0000	
* 23 Perylene-d12	264		8.792	8.780	(1.000)	438897	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	3420	0.39168	131.0023
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	3484	0.86933	290.7571
4 1-Methylnaphthalene	142		4.169	4.168	(1.136)	2745	0.49216	164.6100
11 Phenanthrene	178		5.716	5.709	(1.003)	10707	0.92408	309.0709
12 Anthracene	178		5.745	5.745	(1.008)	1056	0.09149	30.6004(Q)
13 Carbazole	167		5.857	5.851	(1.028)	1572	0.14624	48.9106(Q)
15 Fluoranthene	202		6.545	6.545	(1.149)	12981	1.00648	336.6288
16 Pyrene	202		6.710	6.709	(0.879)	10761	0.85286	285.2503

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.621	7.621	(0.998)	9521	0.75915	253.9060(Q)
19 Chrysene	228	7.651	7.651	(1.002)	12101	0.97534	326.2165
20 Benzo(b)fluoranthene	252	8.451	8.450	(0.961)	7886	0.71138	237.9319(M)
21 Benzo(k)fluoranthene	252	8.457	8.468	(0.962)	8314	0.66280	221.6821(MH)
22 Benzo(a)pyrene	252	8.733	8.733	(0.993)	8269	0.72163	241.3575(M)
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.903	(1.125)	3522	0.94879	317.3357(MH)
26 Benzo(g,h,i)perylene	276	10.245	10.233	(1.165)	6747	0.62819	210.1057

QC Flag Legend

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

Data File: 1CD17019.D

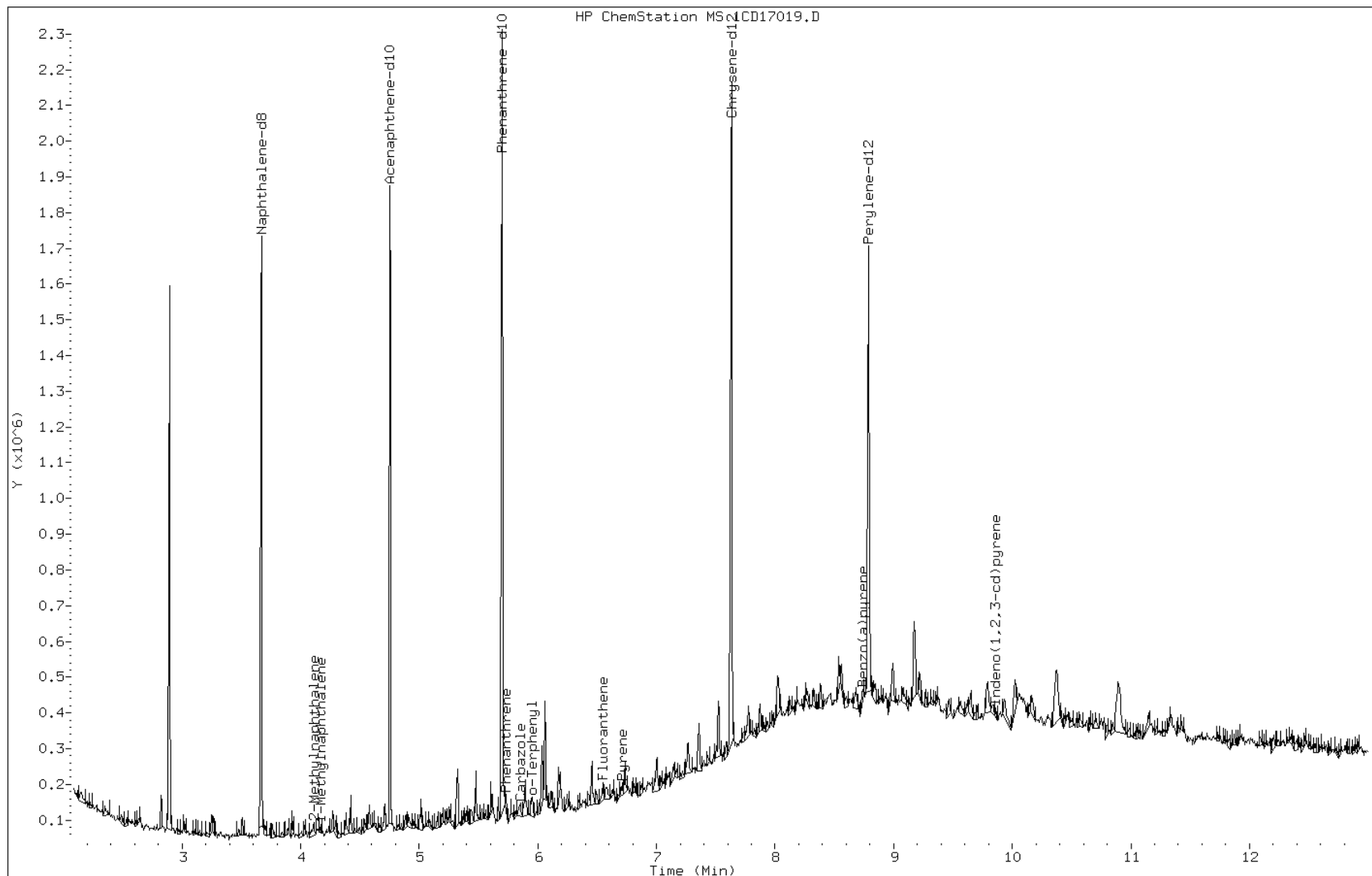
Date: 17-APR-2013 15:11

Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC





Data File: 1CDI17019.D

Date: 17-APR-2013 15:11

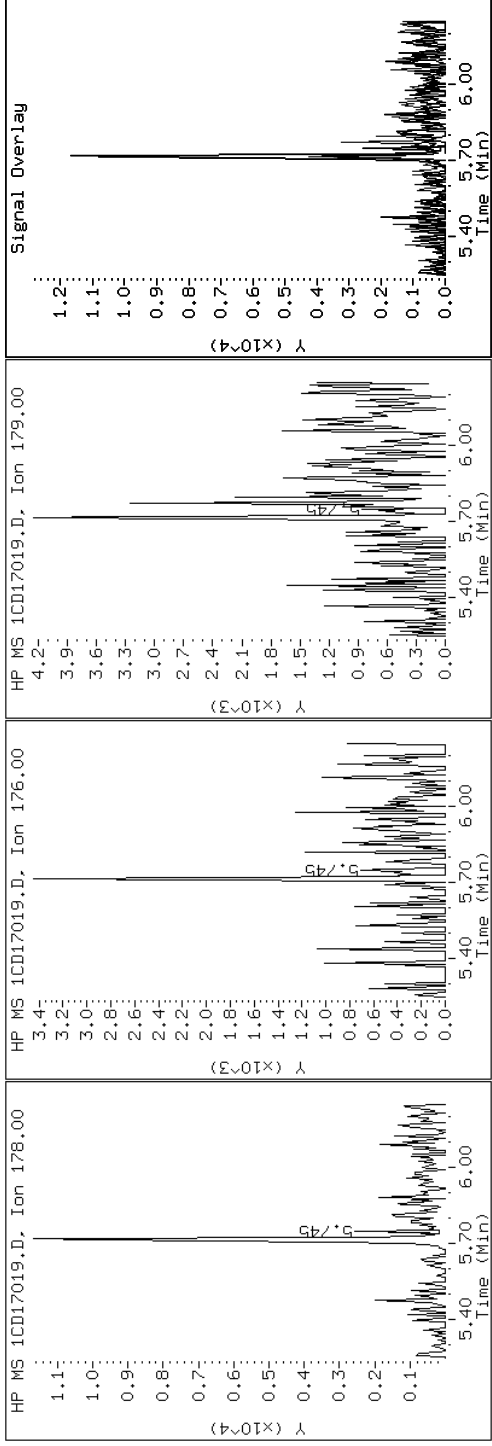
Client ID: CVI1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

12 Anthracene



Data File: 1CD17019.D

Date: 17-APR-2013 15:11

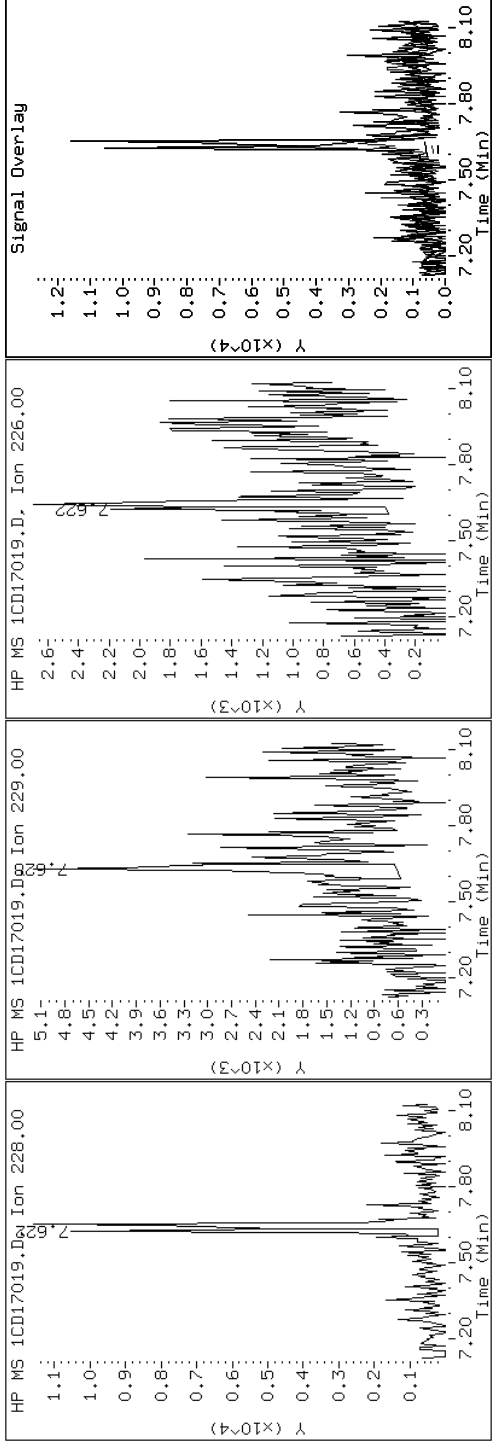
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17019.D

Date: 17-APR-2013 15:11

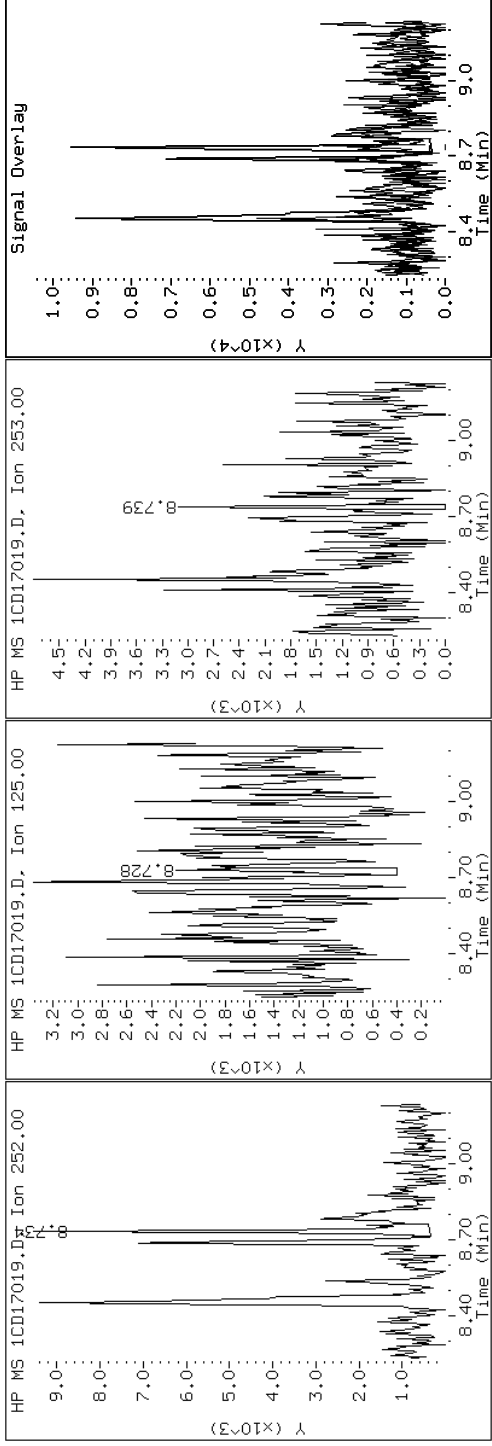
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17019.D

Date: 17-APR-2013 15:11

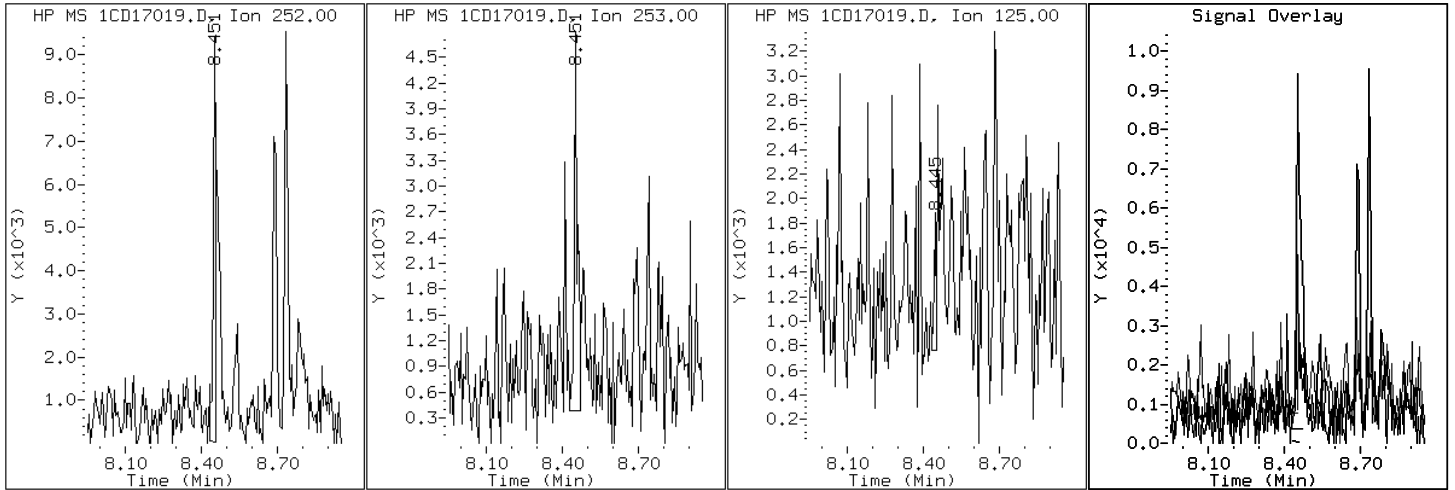
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CDI7019.D

Date: 17-APR-2013 15:11

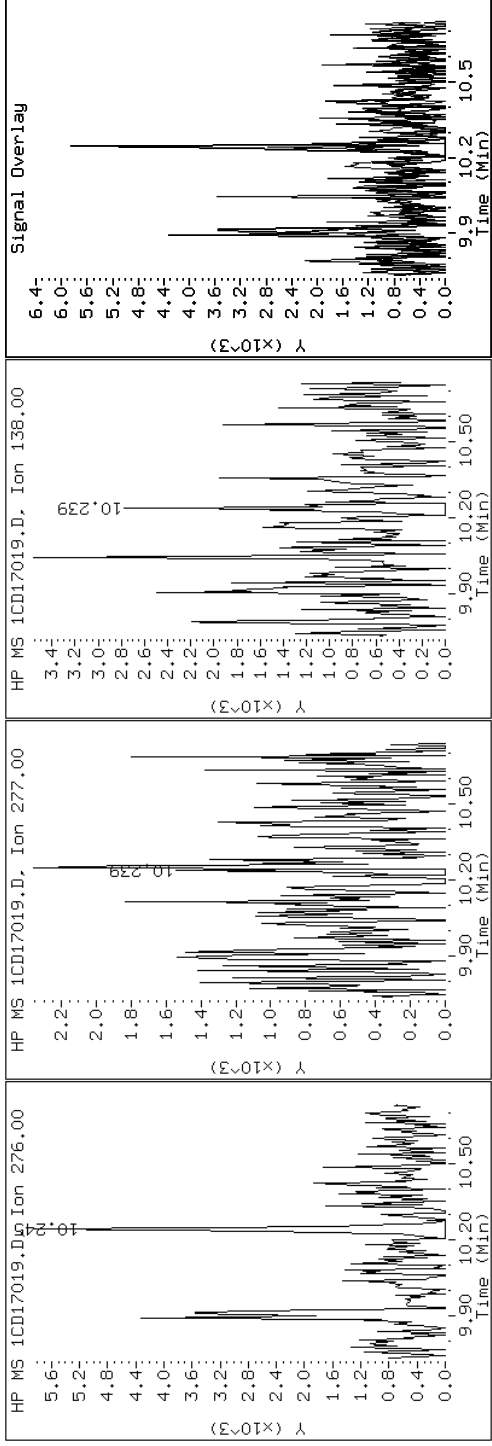
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CDI7019.D

Date: 17-APR-2013 15:11

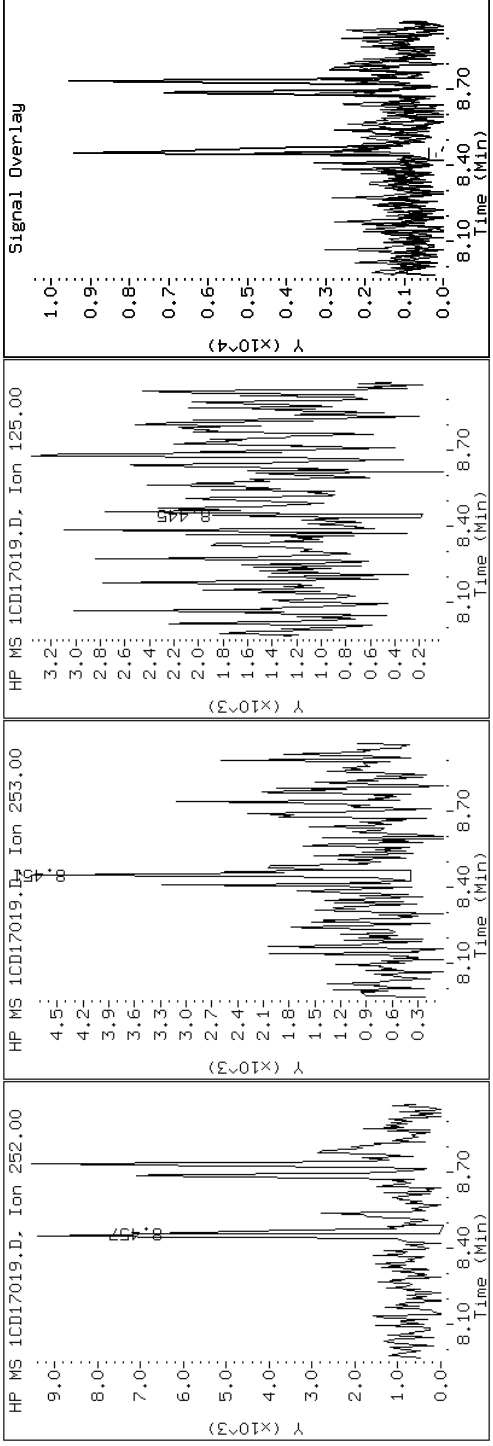
Client ID: CVI357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CDI7019.D

Date: 17-APR-2013 15:11

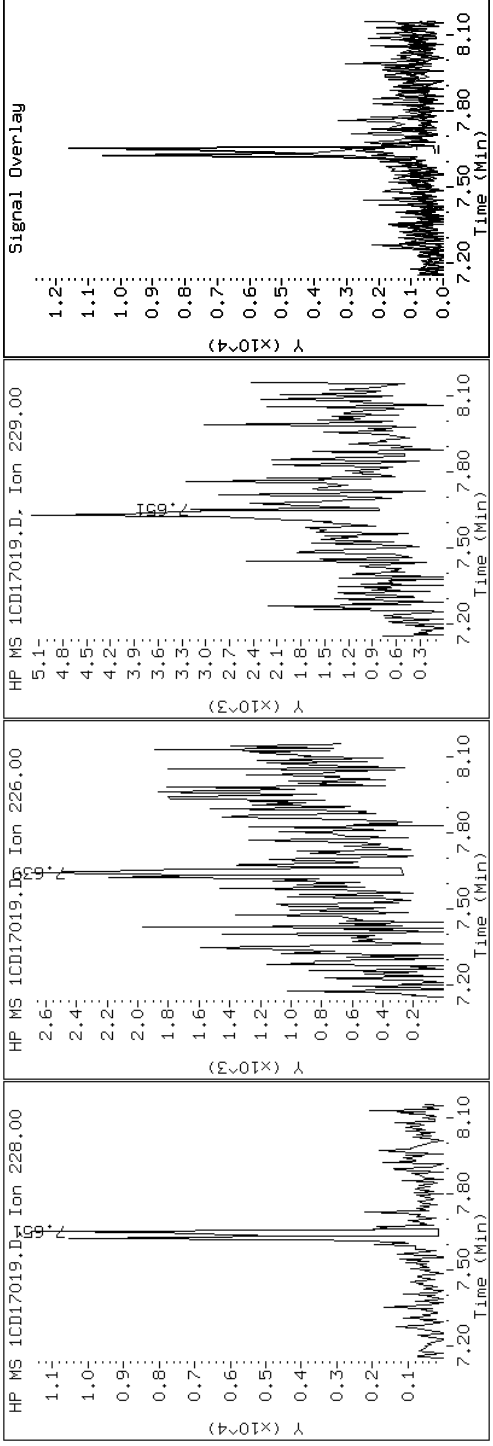
Client ID: CVI357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

19 Chrysene



Data File: 1CD17019.D

Date: 17-APR-2013 15:11

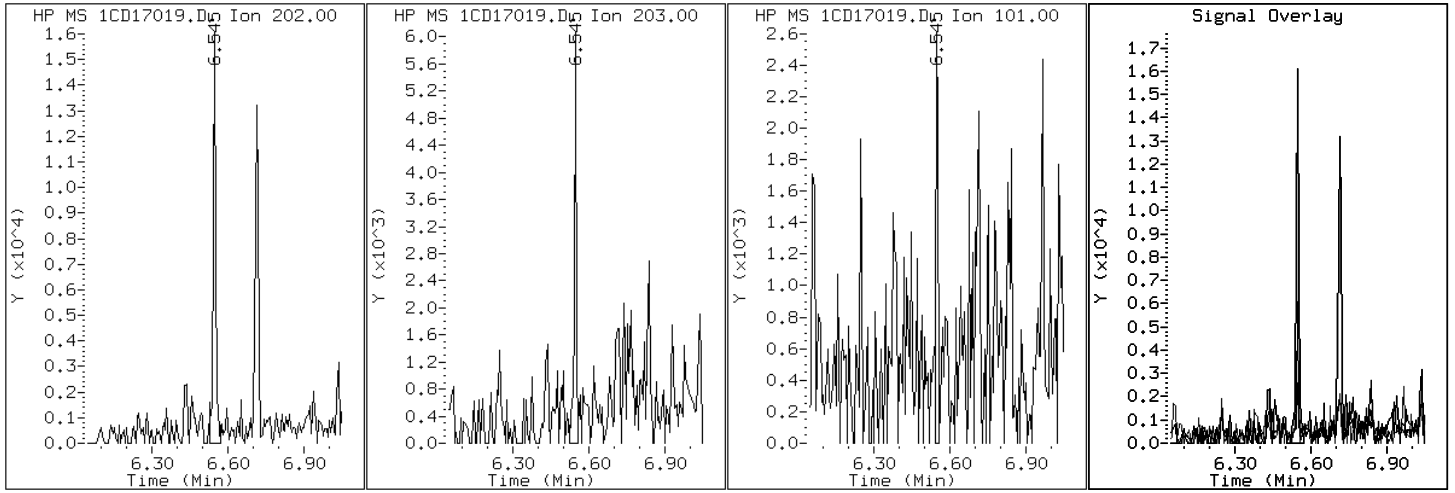
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

15 Fluoranthene





Data File: 1CD17019.D

Date: 17-APR-2013 15:11

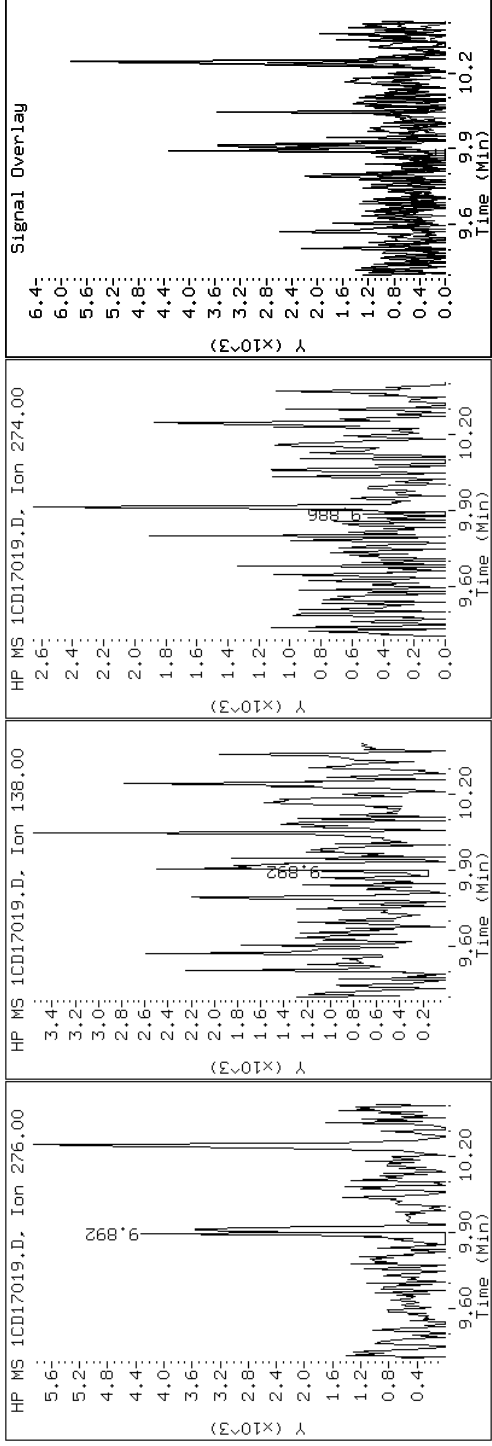
Client ID: CVI357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

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



Data File: 1CDI7019.D

Date: 17-APR-2013 15:11

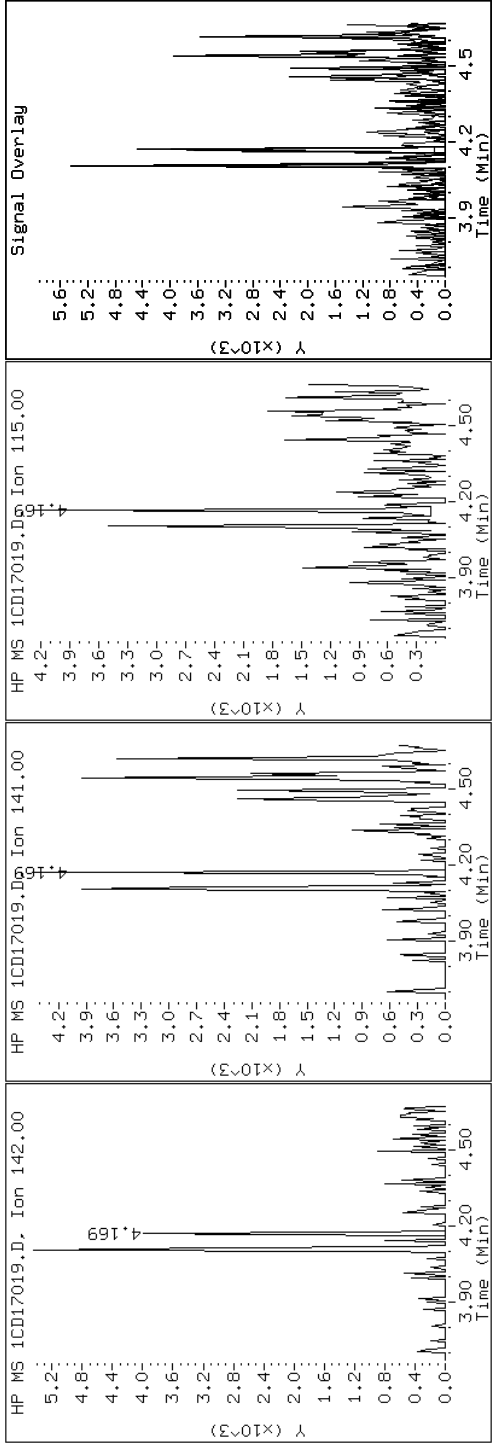
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17019.D

Date: 17-APR-2013 15:11

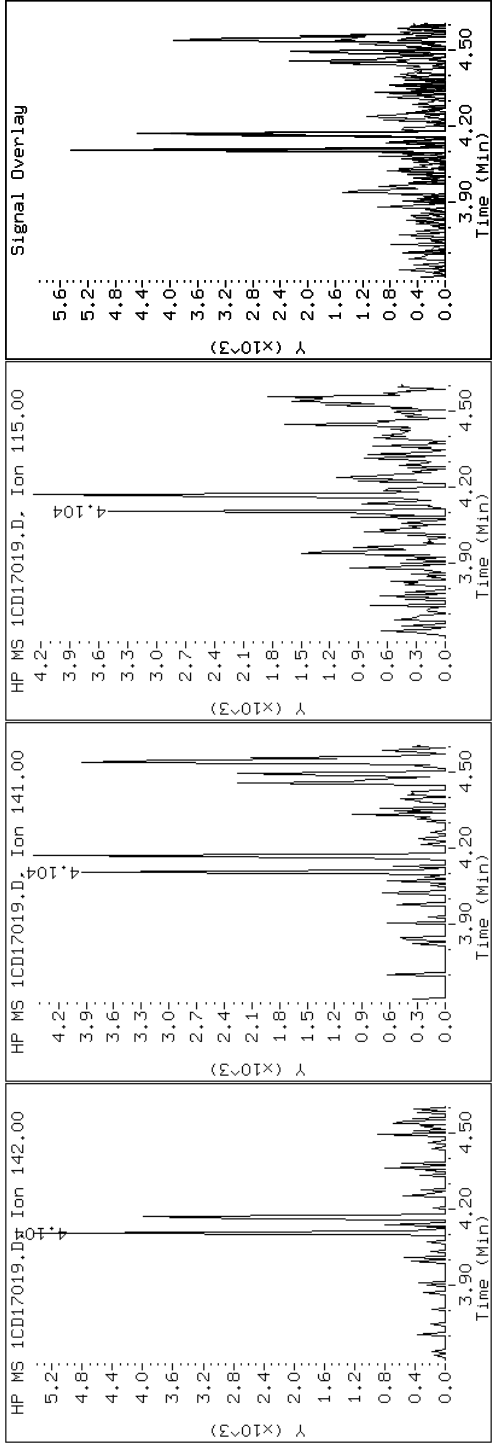
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD17019.D

Date: 17-APR-2013 15:11

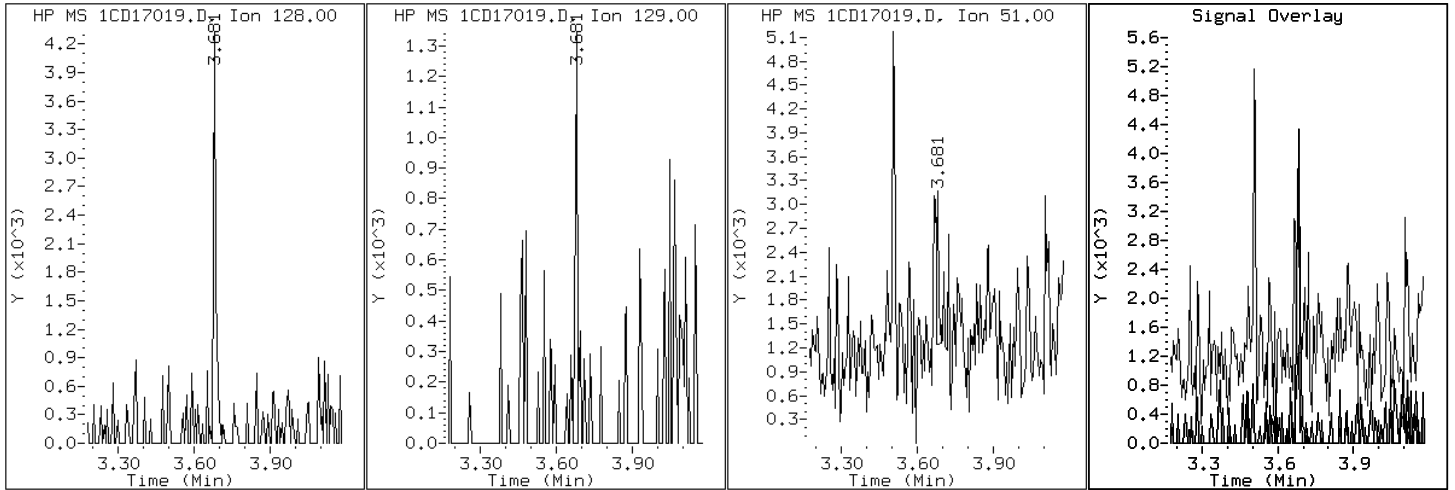
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1CDI7019.D

Date: 17-APR-2013 15:11

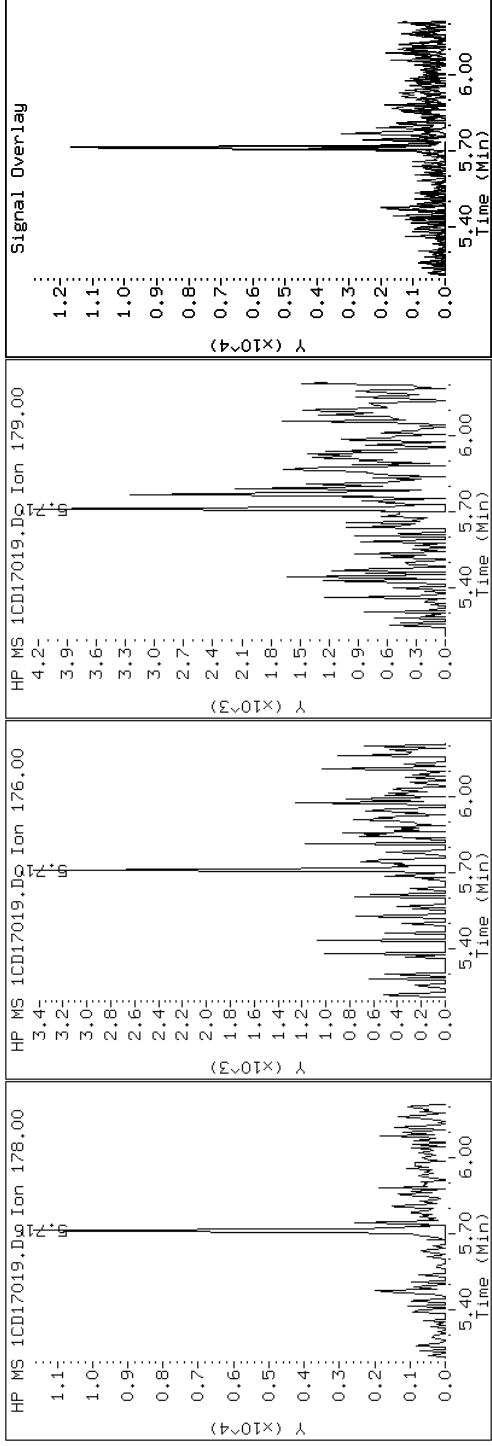
Client ID: CVI357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17019.D

Date: 17-APR-2013 15:11

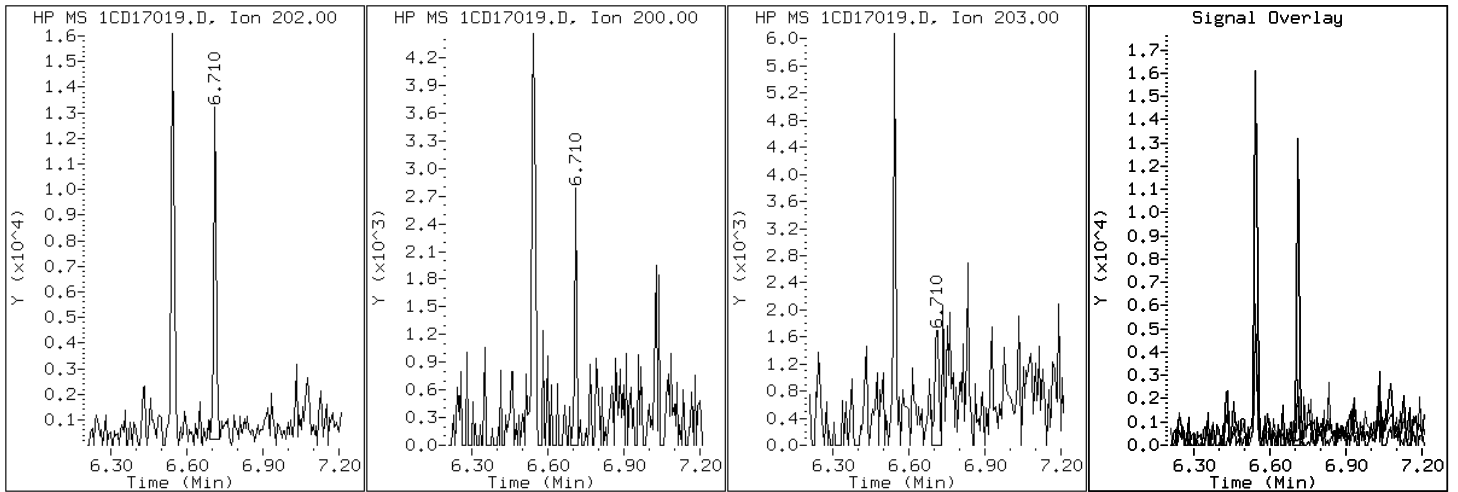
Client ID: CV1357B-CS

Instrument: BSMC5973.i

Sample Info: 680-89275-a-14-a

Operator: SCC

16 Pyrene

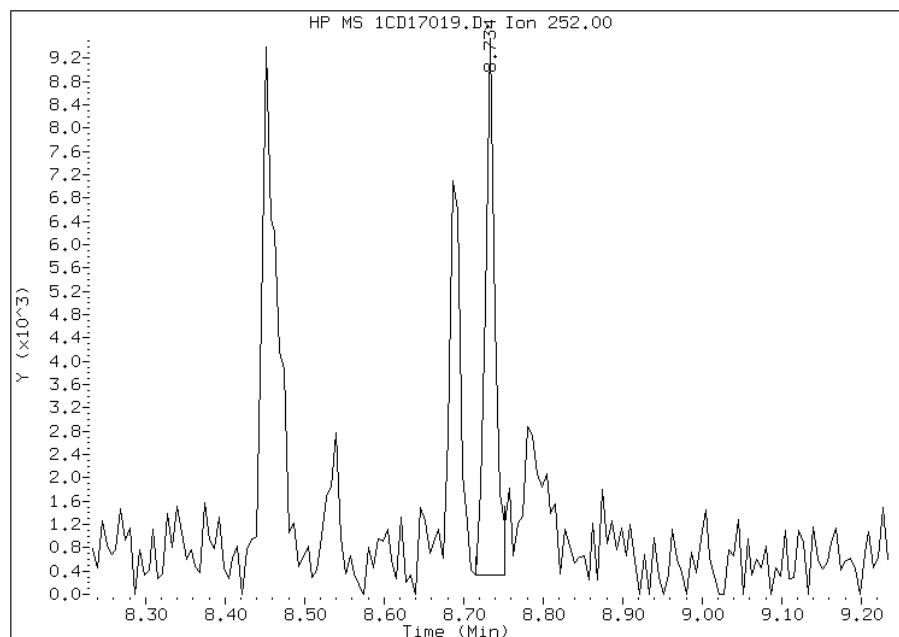


# Manual Integration Report

Data File: 1CD17019.D  
Inj. Date and Time: 17-APR-2013 15:11  
Instrument ID: BSMC5973.i  
Client ID: CV1357B-CS  
Compound: 22 Benzo(a)pyrene  
CAS #: 50-32-8  
Report Date: 04/18/2013

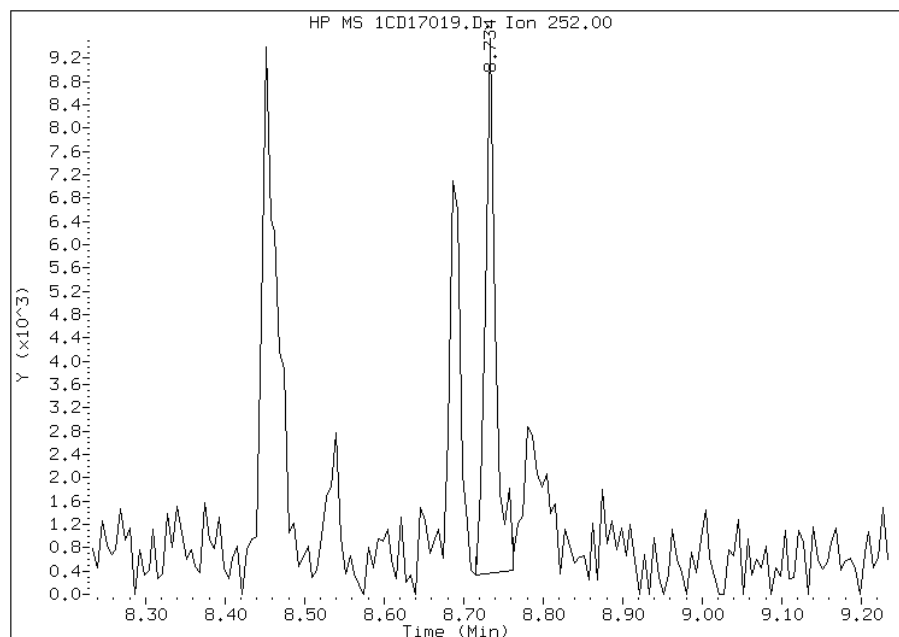
## Processing Integration Results

RT: 8.73  
Response: 7751  
Amount: 1  
Conc: 226



## Manual Integration Results

RT: 8.73  
Response: 8269  
Amount: 1  
Conc: 241



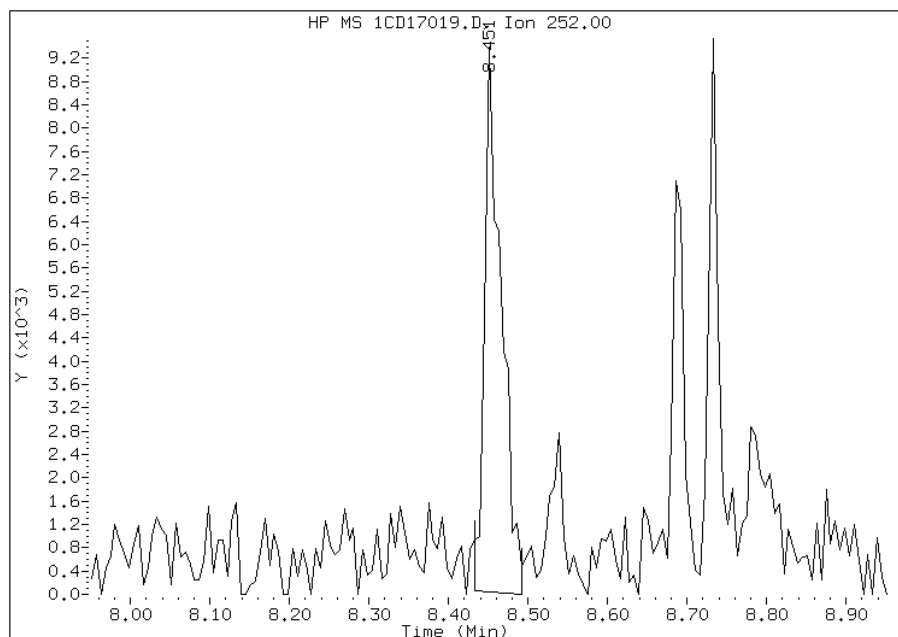
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17019.D  
Inj. Date and Time: 17-APR-2013 15:11  
Instrument ID: BSMC5973.i  
Client ID: CV1357B-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

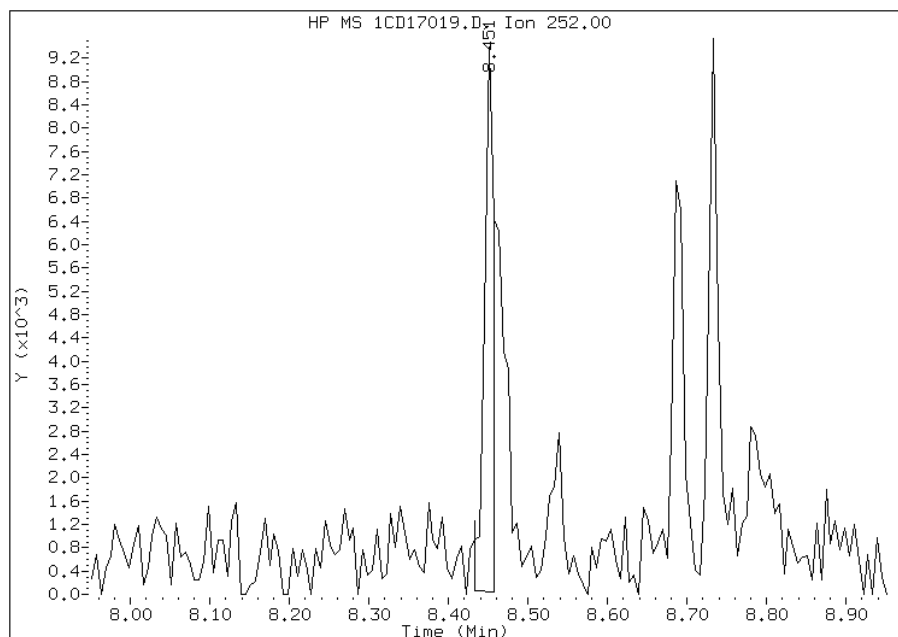
## Processing Integration Results

RT: 8.45  
Response: 13863  
Amount: 1  
Conc: 418



## Manual Integration Results

RT: 8.45  
Response: 7886  
Amount: 1  
Conc: 238



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:34  
Manual Integration Reason: Split Peak

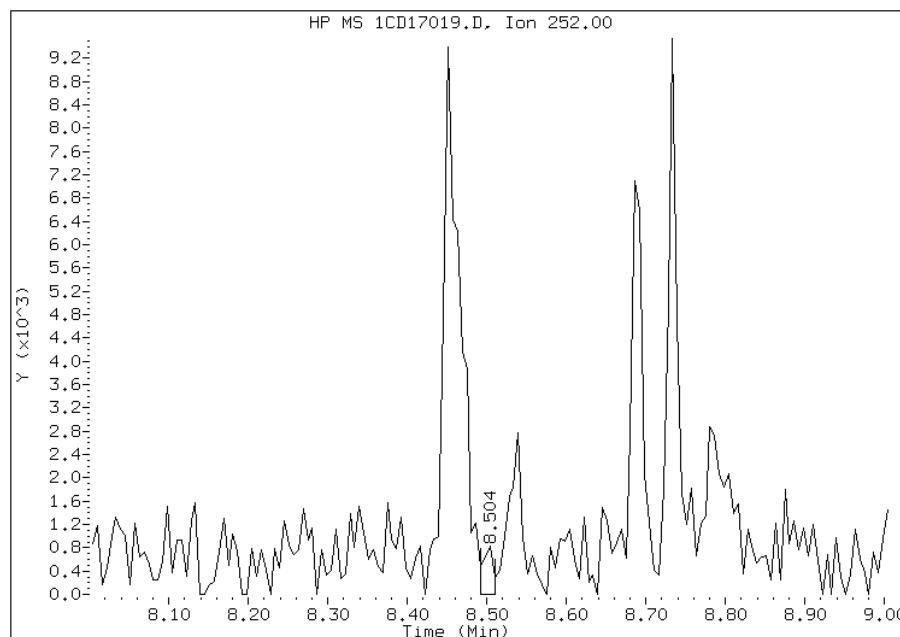


# Manual Integration Report

Data File: 1CD17019.D  
Inj. Date and Time: 17-APR-2013 15:11  
Instrument ID: BSMC5973.i  
Client ID: CV1357B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

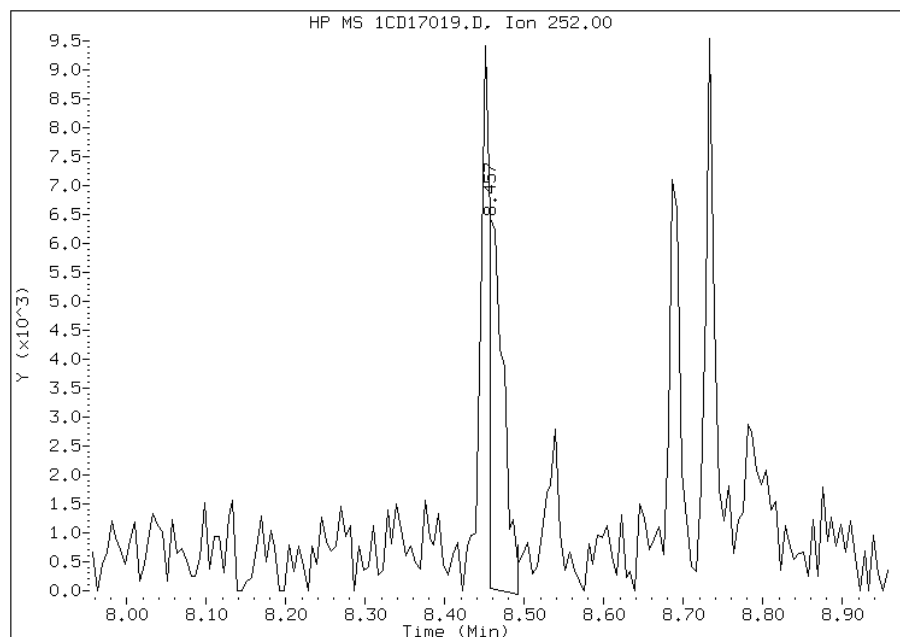
## Processing Integration Results

RT: 8.50  
Response: 790  
Amount: 0  
Conc: 21



## Manual Integration Results

RT: 8.46  
Response: 8314  
Amount: 1  
Conc: 222



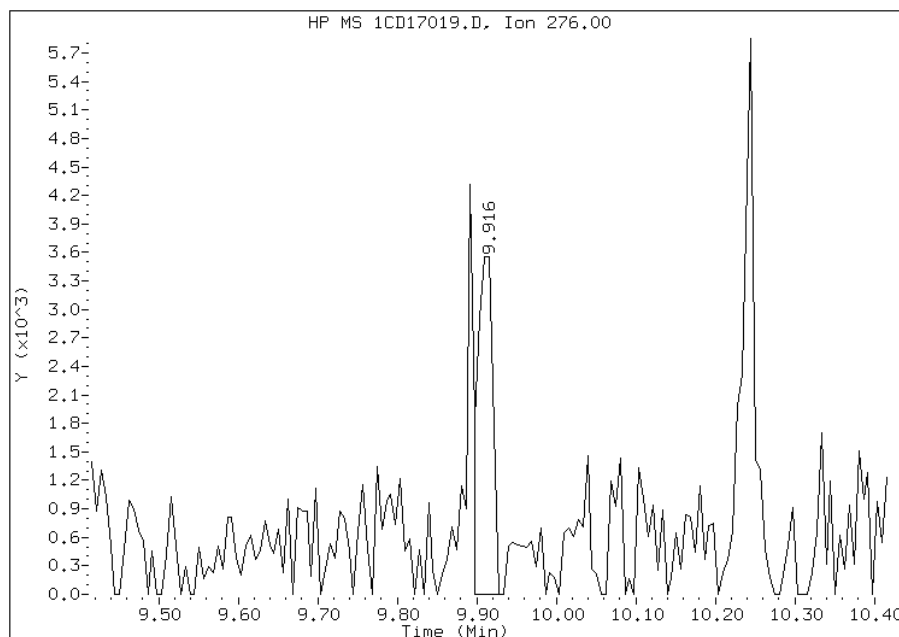
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17019.D  
Inj. Date and Time: 17-APR-2013 15:11  
Instrument ID: BSMC5973.i  
Client ID: CV1357B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

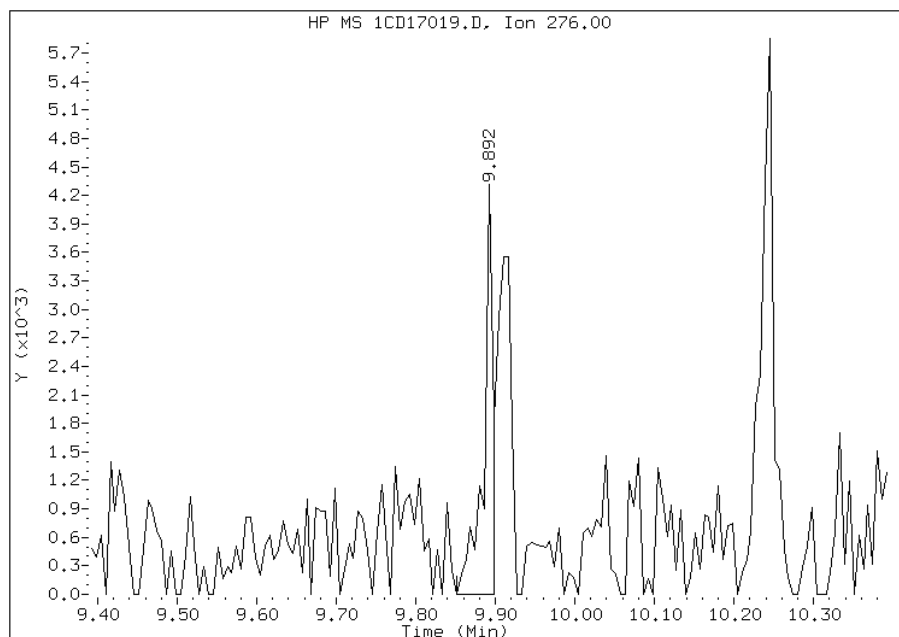
## Processing Integration Results

RT: 9.92  
Response: 4799  
Amount: 1  
Conc: 355



## Manual Integration Results

RT: 9.89  
Response: 3522  
Amount: 1  
Conc: 317



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:36  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0050A-CS-SP Lab Sample ID: 680-89275-15  
 Matrix: Solid Lab File ID: 1CD17020.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 10:45  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.07(g) Date Analyzed: 04/17/2013 15:29  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	19	J	50	6.2
120-12-7	Anthracene	50		10	5.2
56-55-3	Benzo[a]anthracene	170		9.9	4.8
50-32-8	Benzo[a]pyrene	120		13	6.4
205-99-2	Benzo[b]fluoranthene	280		15	7.6
191-24-2	Benzo[g,h,i]perylene	120		25	5.5
207-08-9	Benzo[k]fluoranthene	79		9.9	4.5
218-01-9	Chrysene	290		11	5.6
53-70-3	Dibenz(a,h)anthracene	78		25	5.1
206-44-0	Fluoranthene	230		25	5.0
86-73-7	Fluorene	32		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	160		25	8.8
90-12-0	1-Methylnaphthalene	130		50	5.5
91-57-6	2-Methylnaphthalene	170		50	8.8
91-20-3	Naphthalene	130		50	5.5
85-01-8	Phenanthrene	220		9.9	4.8
129-00-0	Pyrene	220		25	4.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17020.D  
 Lab Smp Id: 680-89275-A-15-A Client Smp ID: CV0050A-CS-SP  
 Inj Date : 17-APR-2013 15:29  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-15-a  
 Misc Info : 680-89275-A-15-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins 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	15.070	Weight Extracted
M	19.687	% 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		3.669	3.663	(1.000)	348807	40.0000		
* 6 Acenaphthene-d10	164		4.757	4.751	(1.000)	240423	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	429752	40.0000		
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	31159	5.06806	418.7375	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	456464	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	447884	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	15363	1.62937	134.6230	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	11217	2.05152	169.5020	
4 1-Methylnaphthalene	142		4.169	4.168	(1.136)	9451	1.56922	129.6529	
5 Acenaphthylene	152		4.669	4.663	(0.981)	2357	0.23136	19.1155	
9 Fluorene	166		5.092	5.092	(1.070)	3020	0.38654	31.9368(Q)	
11 Phenanthrene	178		5.710	5.709	(1.002)	33607	2.66939	220.5521	
12 Anthracene	178		5.745	5.745	(1.008)	7524	0.60307	49.8273	
13 Carbazole	167		5.857	5.851	(1.028)	3817	0.32849	27.1411	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.545	6.545	(1.149)	38952	2.79401	230.8489
16 Pyrene	202	6.715	6.709	(0.880)	34009	2.61891	216.3818
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	25814	1.99986	165.2339
19 Chrysene	228	7.651	7.651	(1.002)	45201	3.53986	292.4732
20 Benzo(b)fluoranthene	252	8.457	8.450	(0.962)	38655	3.41704	282.3257(M)
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.964)	12242	0.95636	79.0172(QM)
22 Benzo(a)pyrene	252	8.733	8.733	(0.993)	17425	1.49015	123.1202
24 Indeno(1,2,3-cd)pyrene	276	9.915	9.903	(1.128)	14529	1.89005	156.1610(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915	(1.128)	5715	0.94533	78.1054
26 Benzo(g,h,i)perylene	276	10.245	10.233	(1.165)	15708	1.43317	118.4123

QC Flag Legend

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

Data File: 1CD17020.D

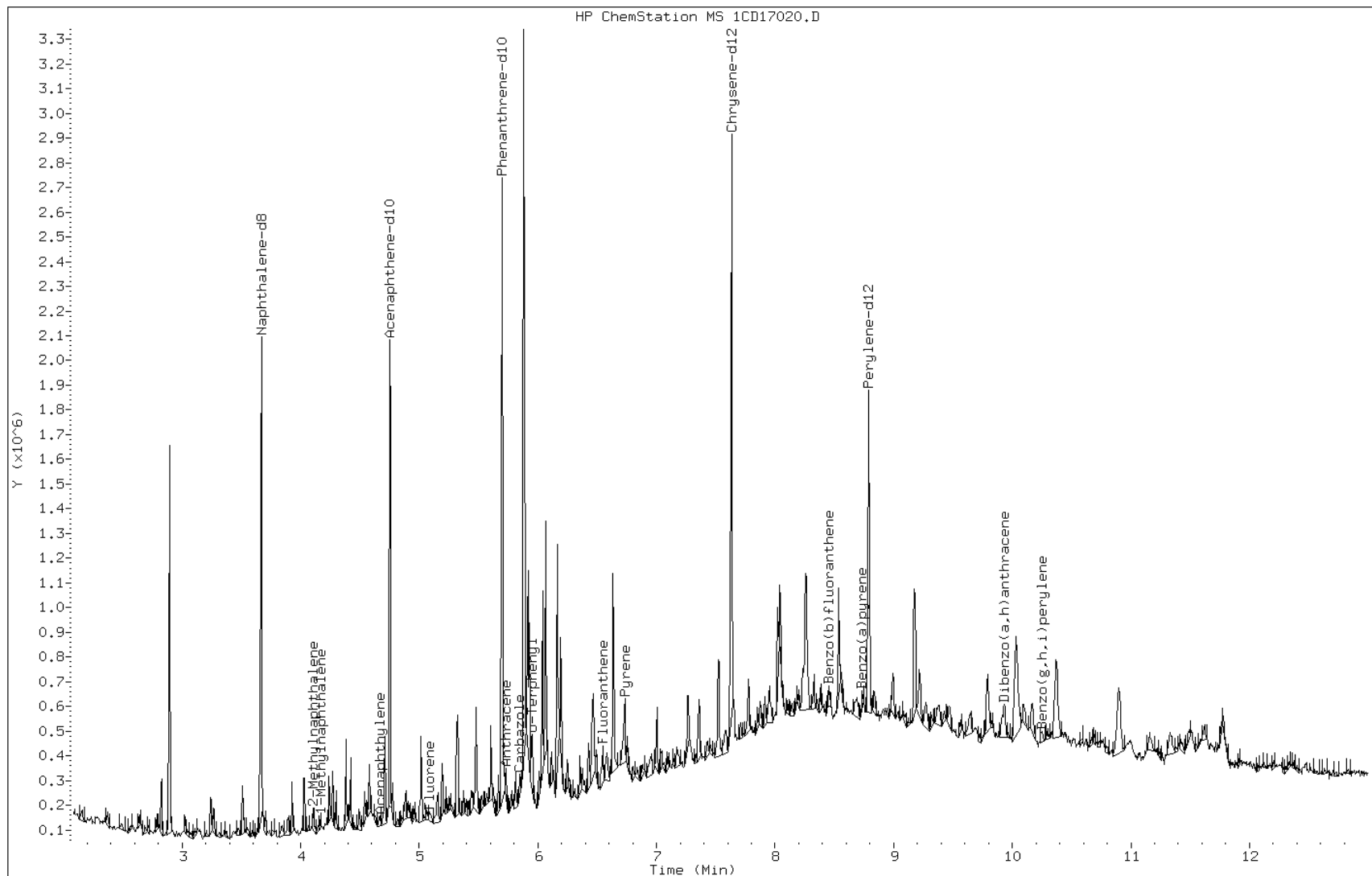
Date: 17-APR-2013 15:29

Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

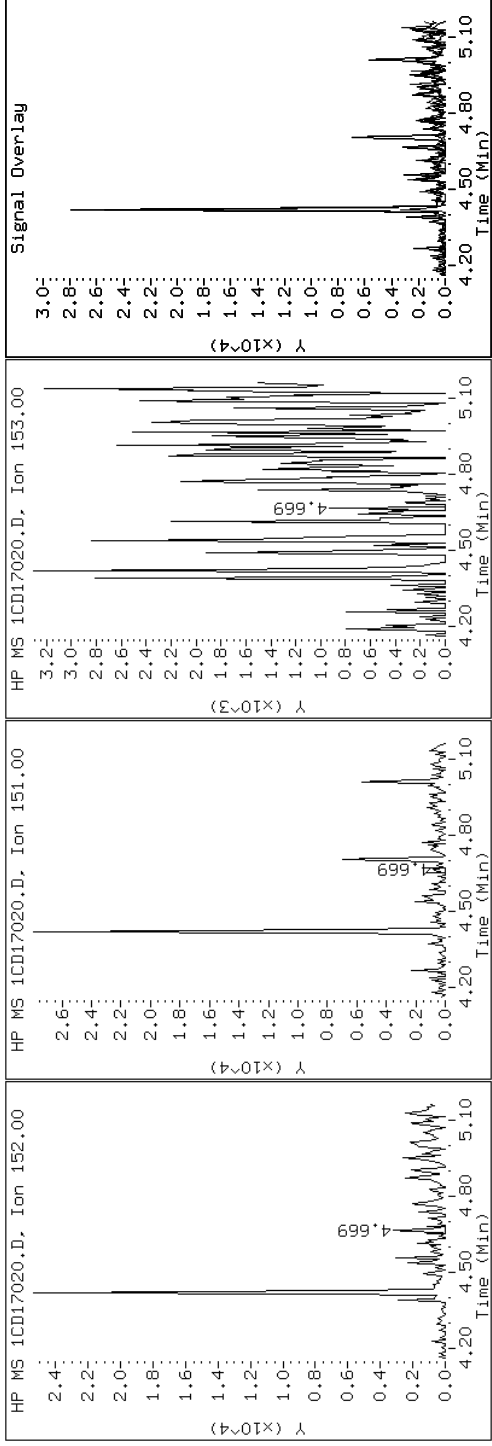
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

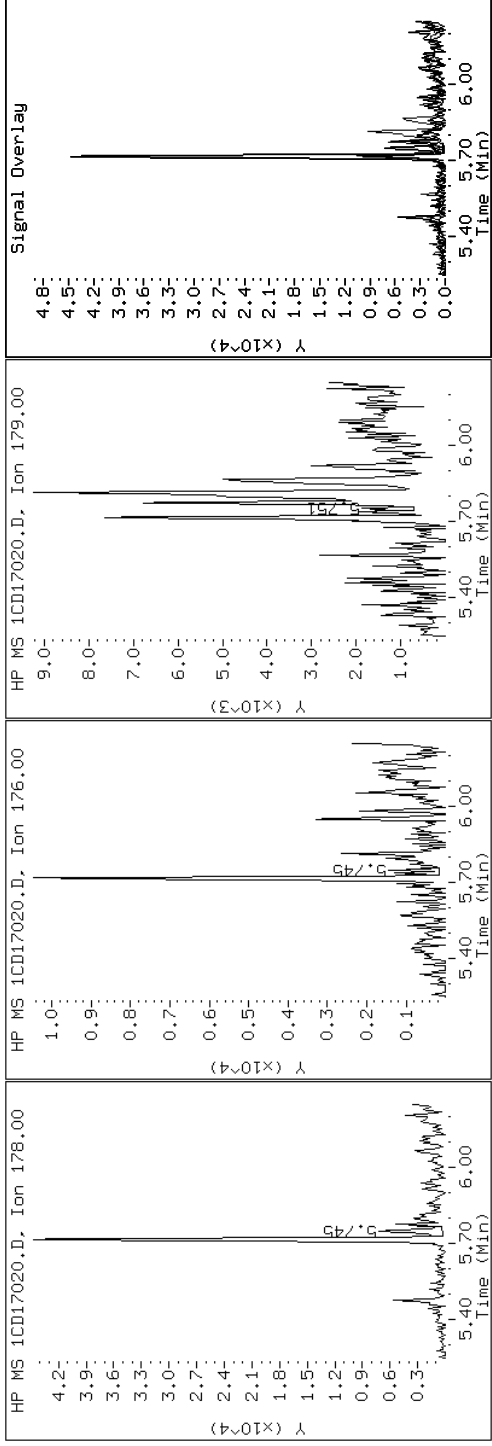
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

12 Anthracene





Data File: 1CD17020.D

Date: 17-APR-2013 15:29

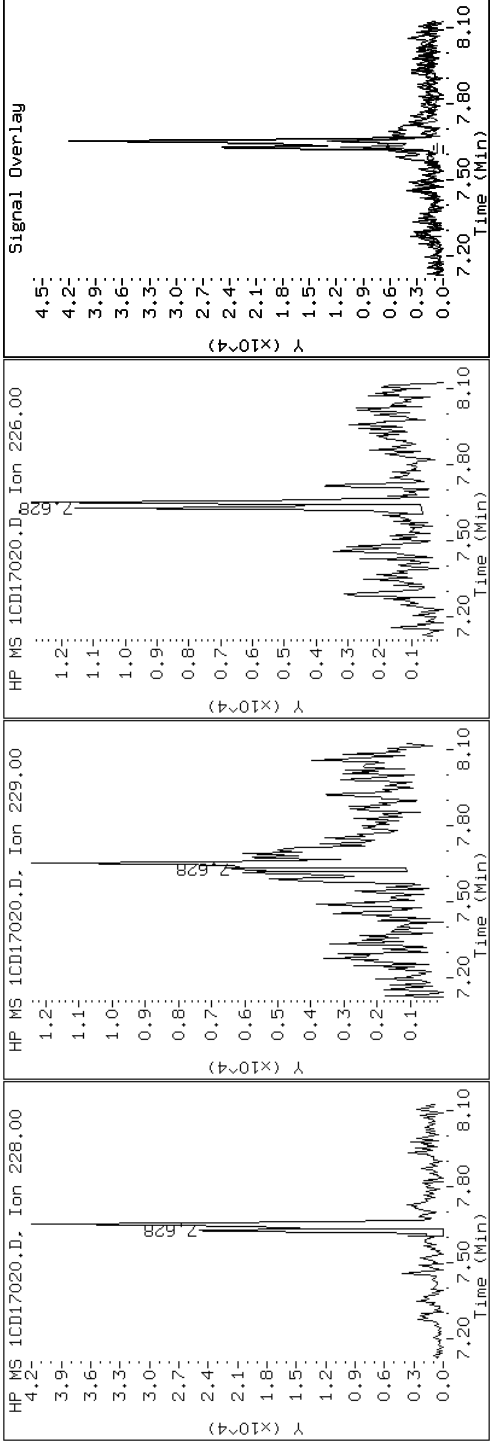
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

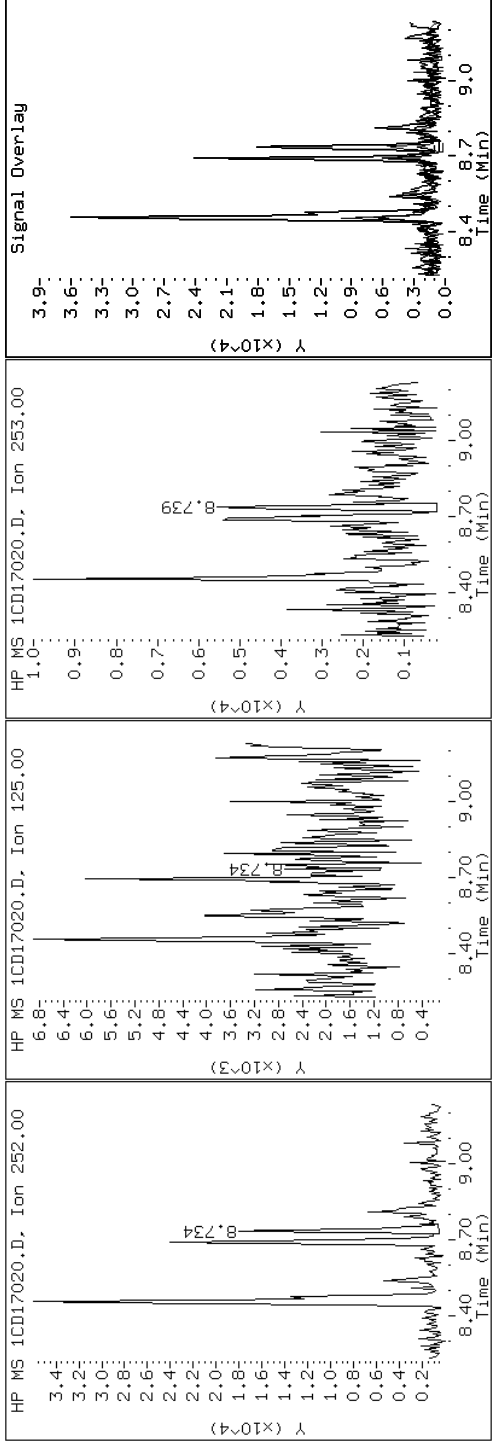
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

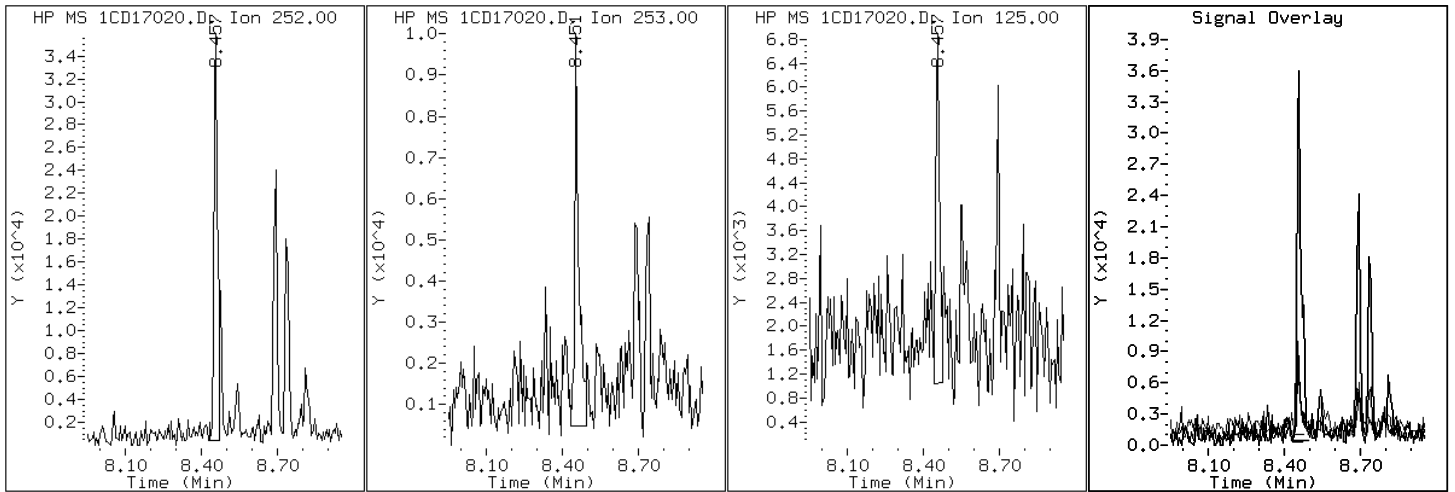
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

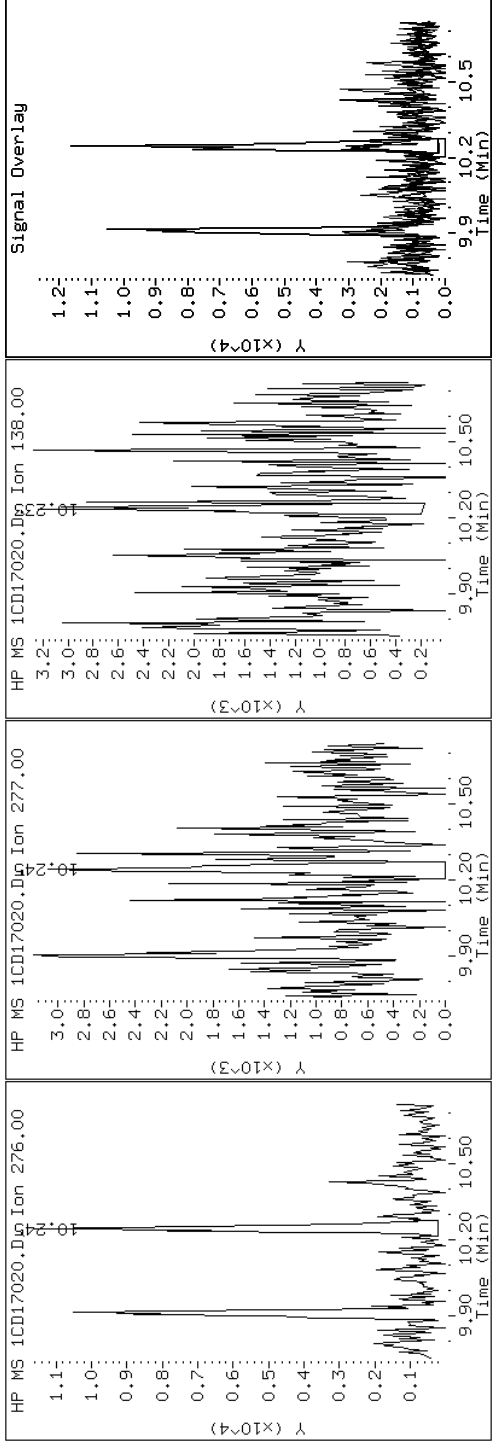
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

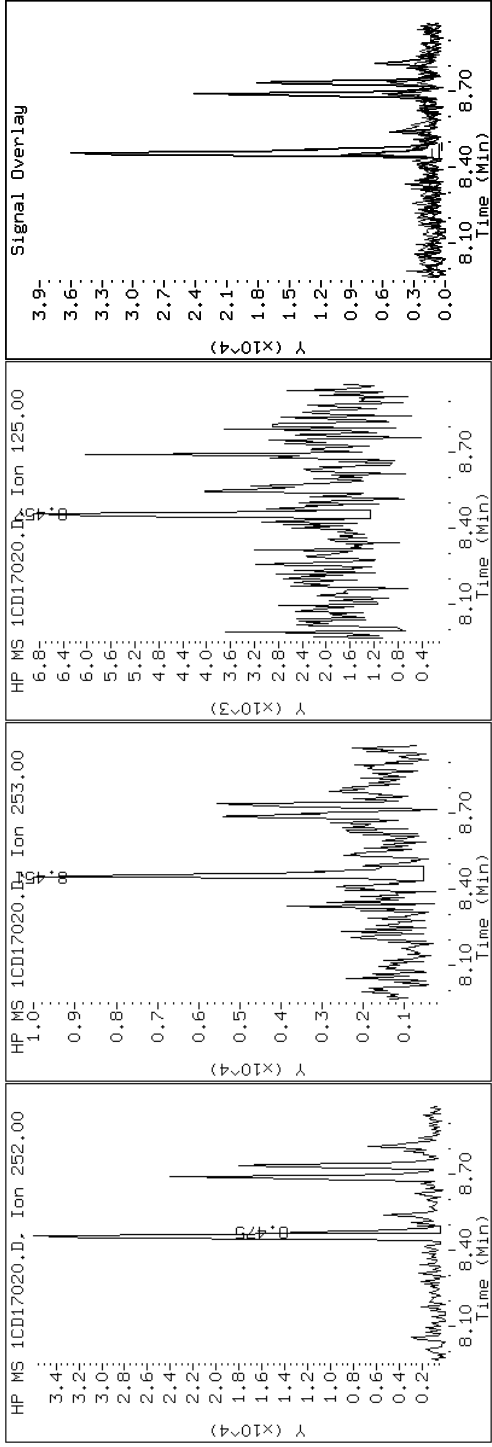
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

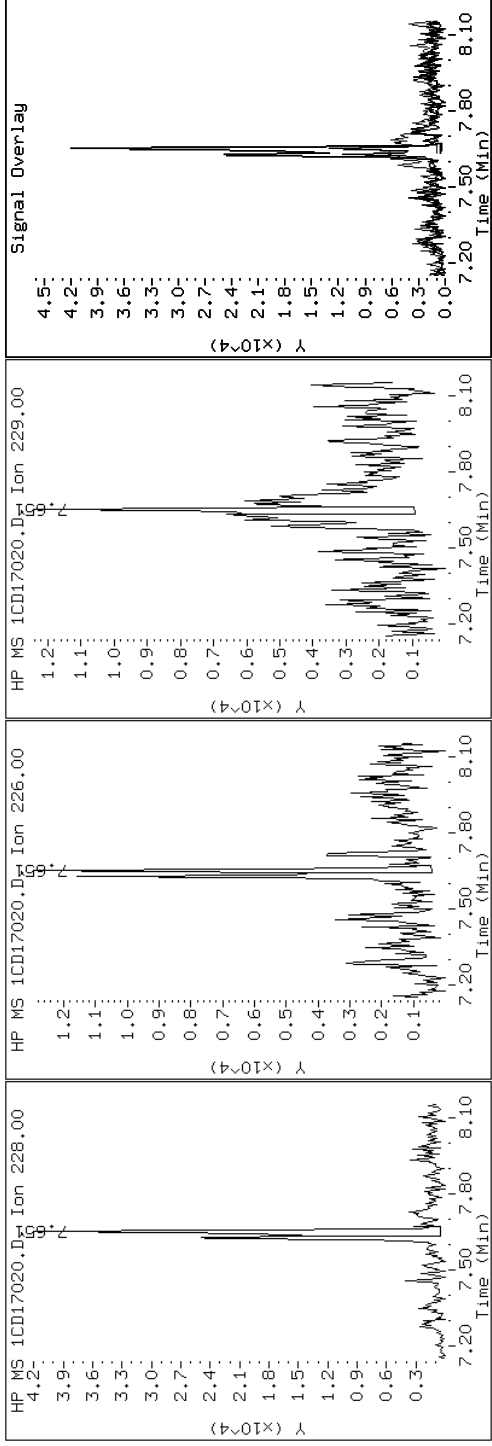
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

19 Chrysene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

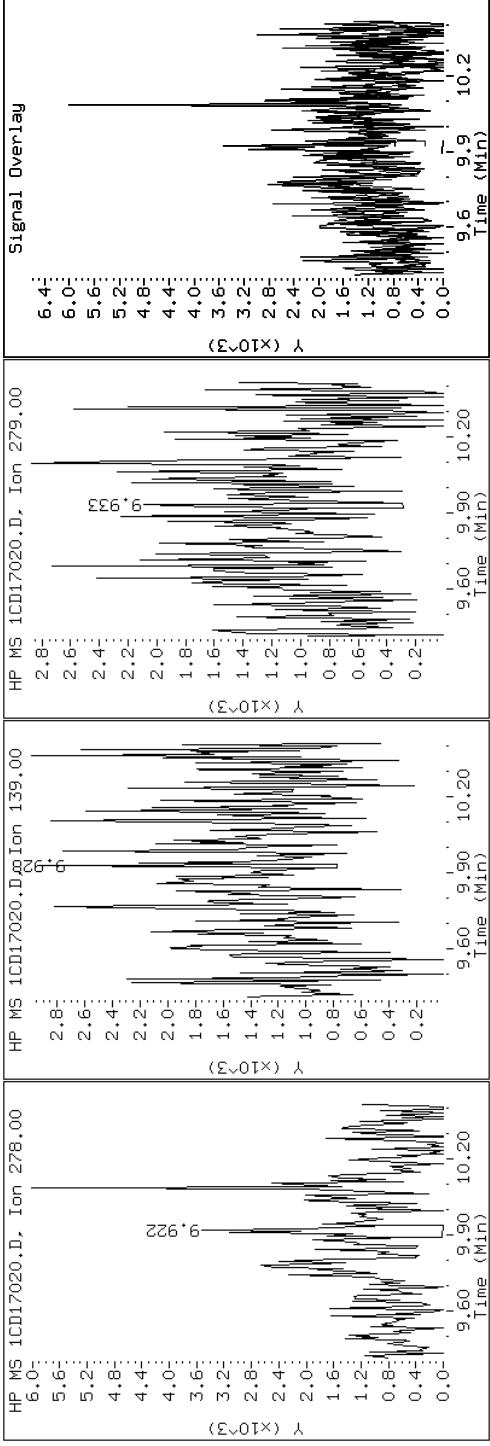
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

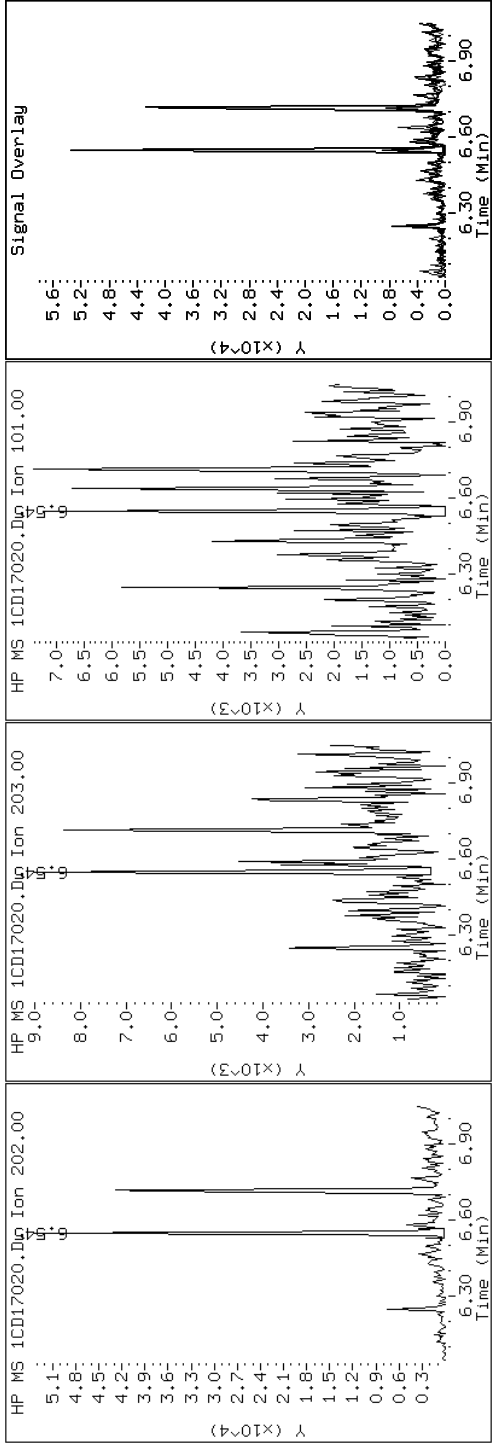
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

15 Fluoranthene





Data File: 1CDI17020.D

Date: 17-APR-2013 15:29

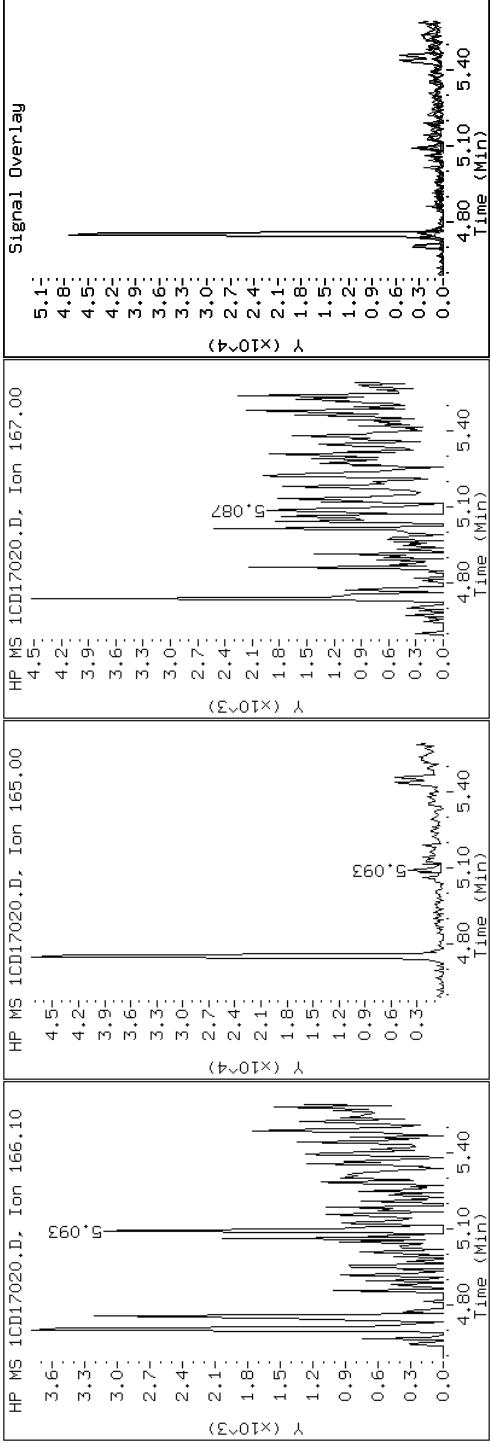
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

9 Fluorene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

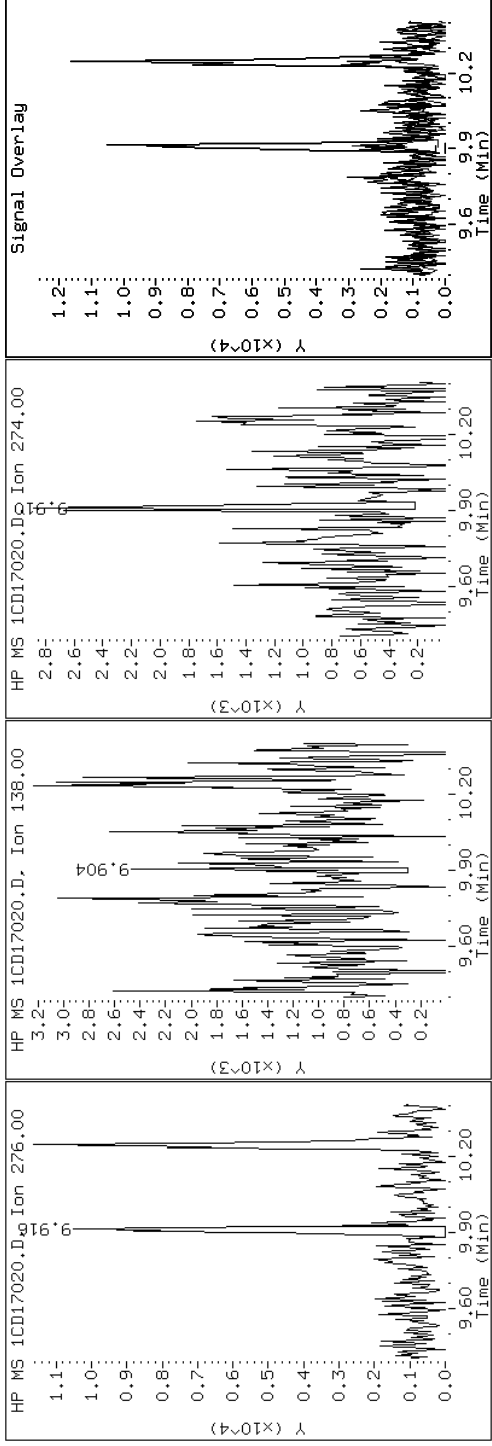
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

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



Data File: 1CDI17020.D

Date: 17-APR-2013 15:29

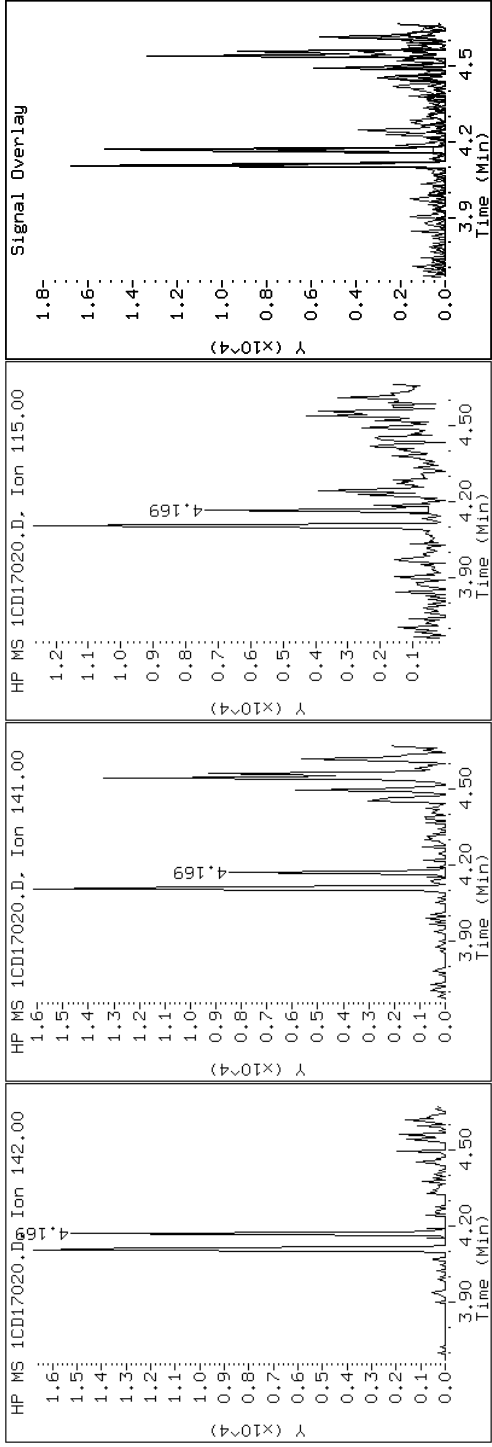
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CDI7020.D

Date: 17-APR-2013 15:29

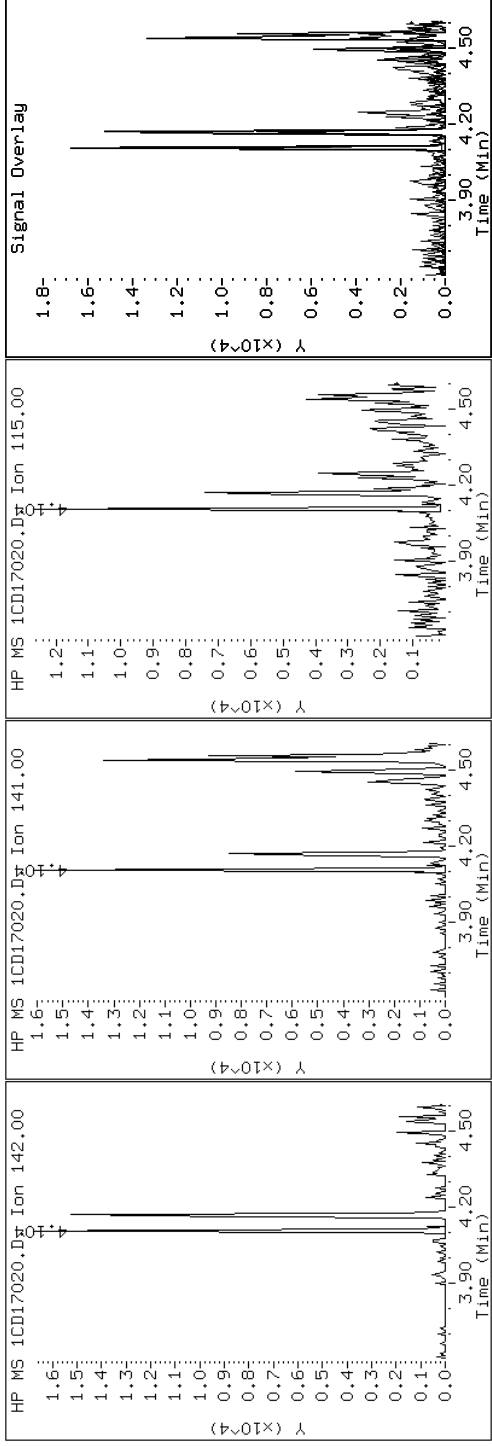
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

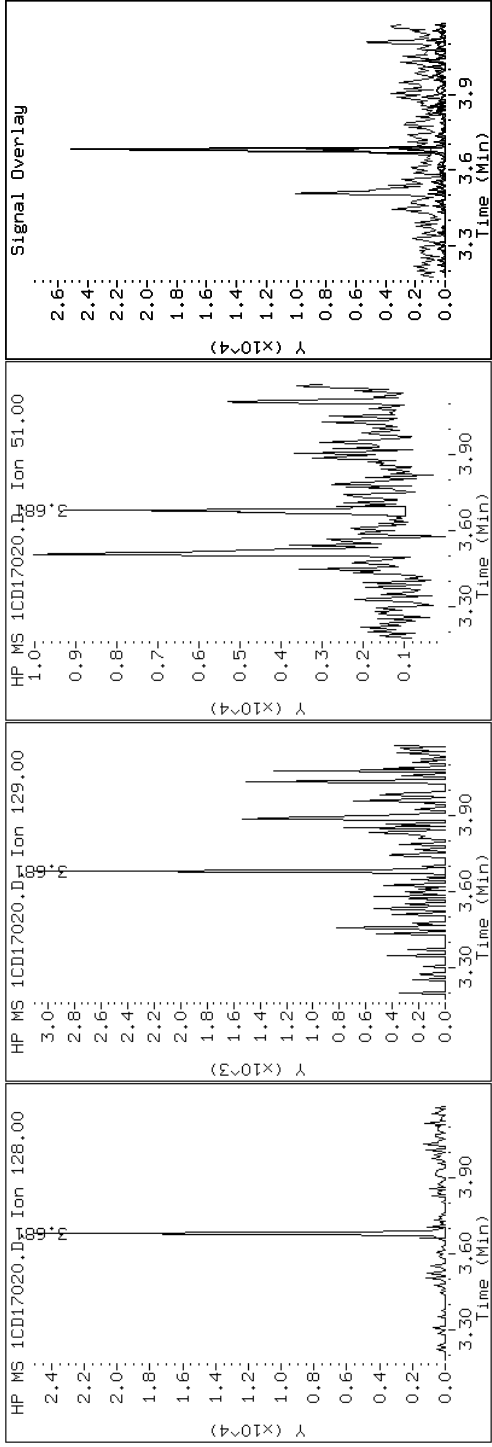
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

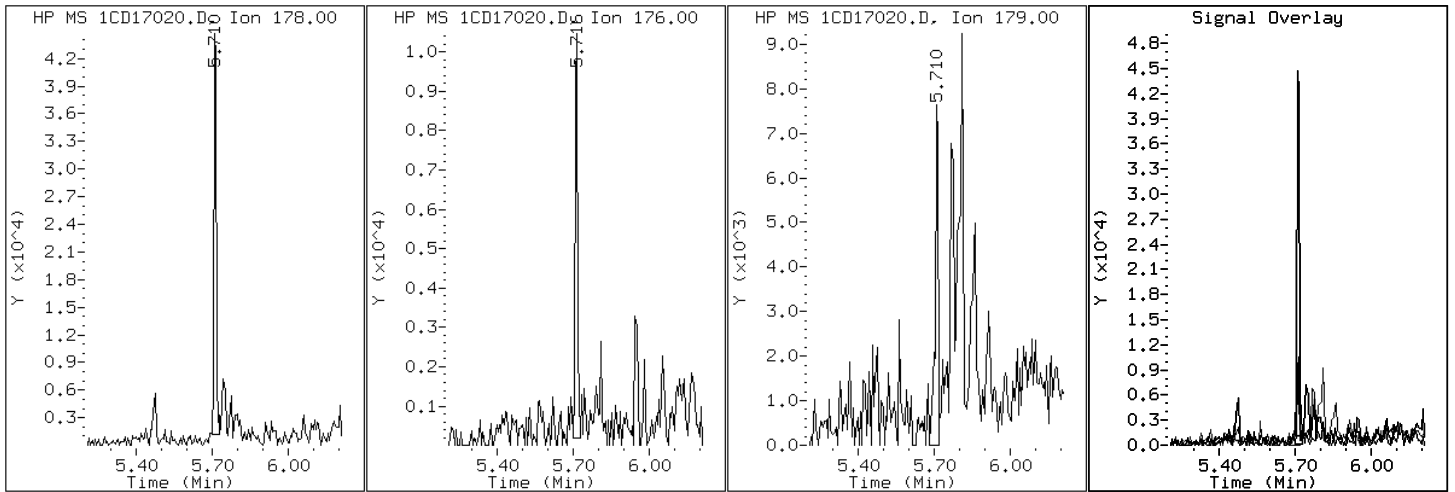
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17020.D

Date: 17-APR-2013 15:29

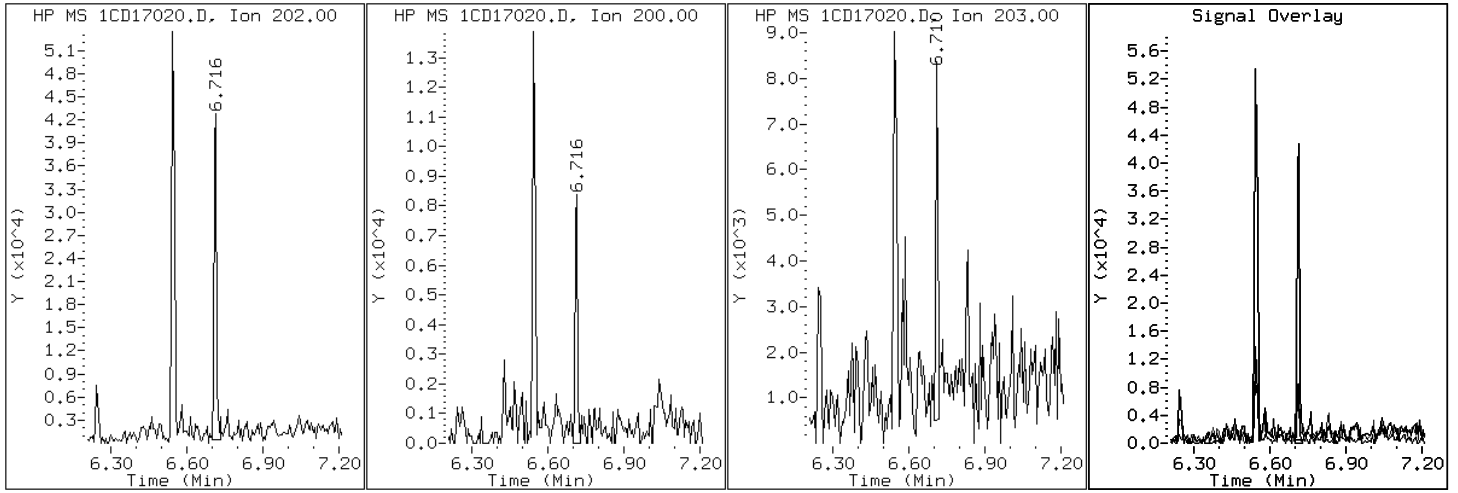
Client ID: CV0050A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-15-a

Operator: SCC

16 Pyrene

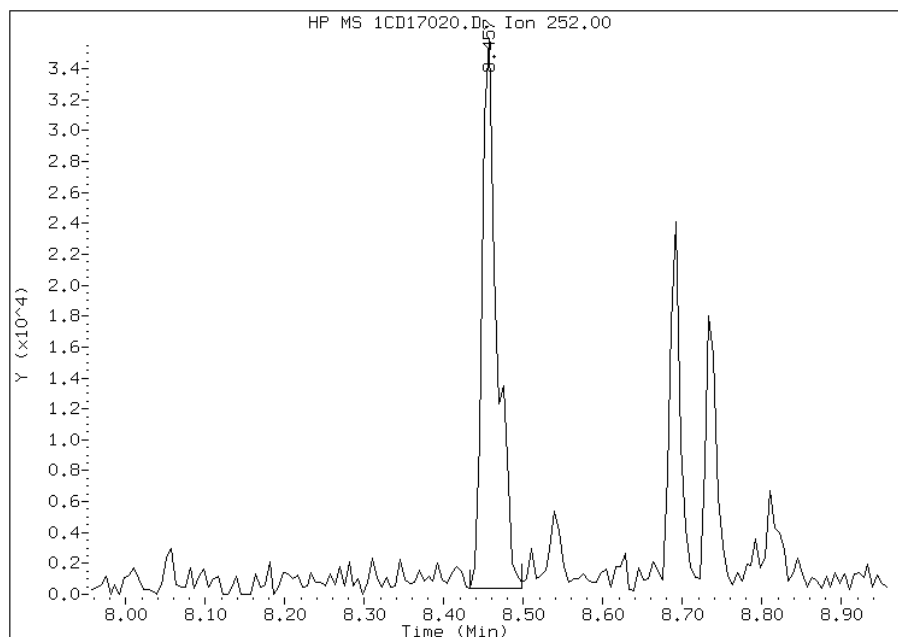


# Manual Integration Report

Data File: 1CD17020.D  
Inj. Date and Time: 17-APR-2013 15:29  
Instrument ID: BSMC5973.i  
Client ID: CV0050A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

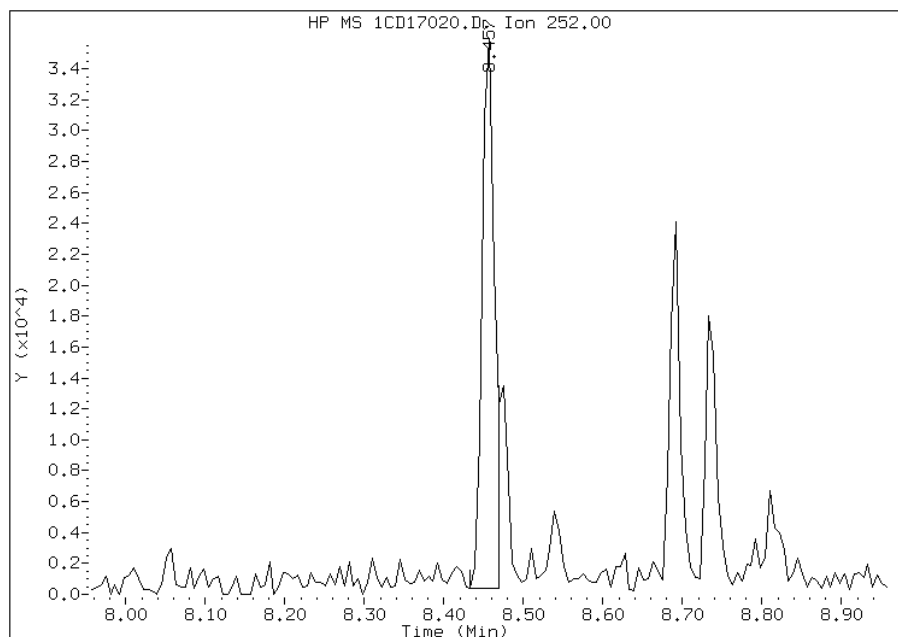
## Processing Integration Results

RT: 8.46  
Response: 46668  
Amount: 4  
Conc: 341



## Manual Integration Results

RT: 8.46  
Response: 38655  
Amount: 3  
Conc: 282



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:37  
Manual Integration Reason: Split Peak

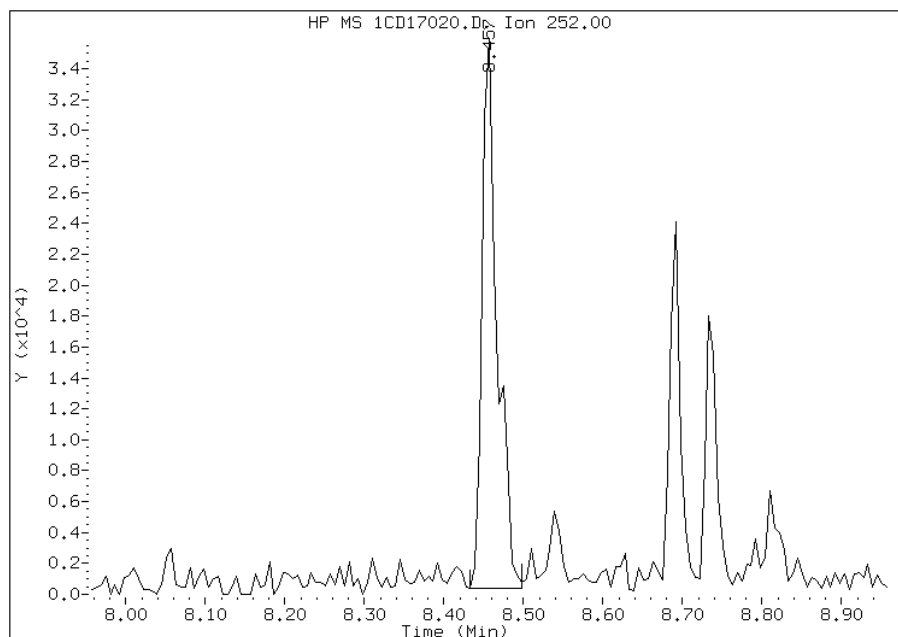


# Manual Integration Report

Data File: 1CD17020.D  
Inj. Date and Time: 17-APR-2013 15:29  
Instrument ID: BSMC5973.i  
Client ID: CV0050A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

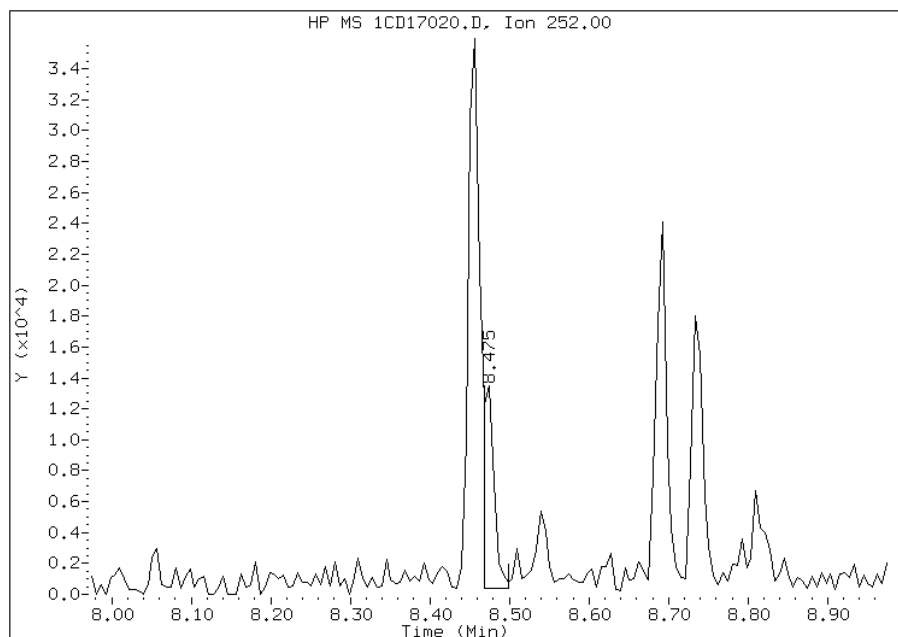
## Processing Integration Results

RT: 8.46  
Response: 46676  
Amount: 4  
Conc: 301



## Manual Integration Results

RT: 8.47  
Response: 12242  
Amount: 1  
Conc: 79



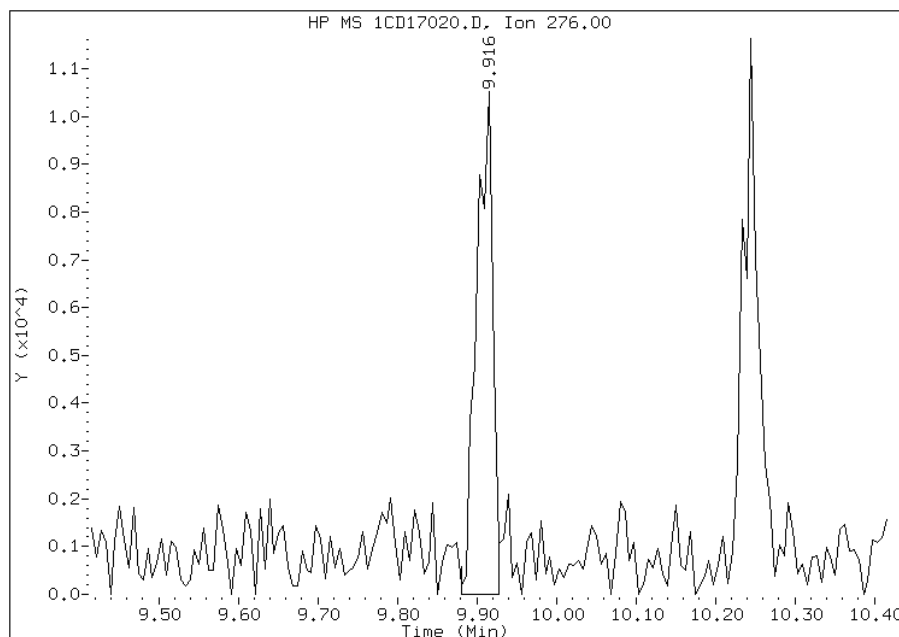
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:37  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17020.D  
Inj. Date and Time: 17-APR-2013 15:29  
Instrument ID: BSMC5973.i  
Client ID: CV0050A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

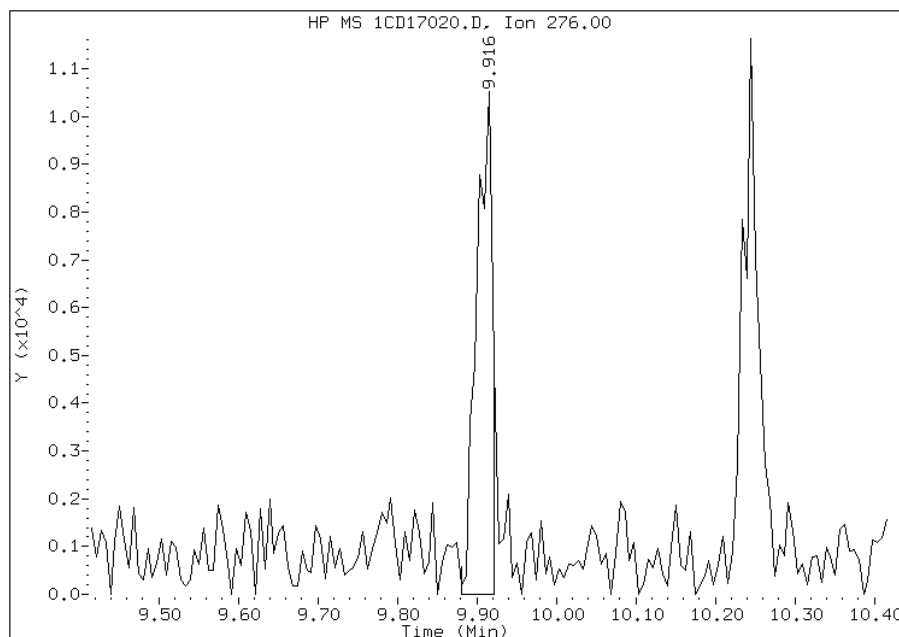
## Processing Integration Results

RT: 9.92  
Response: 14900  
Amount: 2  
Conc: 159



## Manual Integration Results

RT: 9.92  
Response: 14529  
Amount: 2  
Conc: 156



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:37  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0050B-CS-SP Lab Sample ID: 680-89275-16  
 Matrix: Solid Lab File ID: 1CD17021.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 10:56  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.89(g) Date Analyzed: 04/17/2013 15:48  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 16.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	43	J	48	6.0
120-12-7	Anthracene	30		10	5.1
56-55-3	Benzo[a]anthracene	200		9.7	4.7
50-32-8	Benzo[a]pyrene	210		13	6.3
205-99-2	Benzo[b]fluoranthene	400		15	7.4
191-24-2	Benzo[g,h,i]perylene	180		24	5.3
207-08-9	Benzo[k]fluoranthene	110		9.7	4.4
218-01-9	Chrysene	340		11	5.4
53-70-3	Dibenz(a,h)anthracene	110		24	5.0
206-44-0	Fluoranthene	280		24	4.8
86-73-7	Fluorene	33		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	160		24	8.6
90-12-0	1-Methylnaphthalene	120		48	5.3
91-57-6	2-Methylnaphthalene	160		48	8.6
91-20-3	Naphthalene	160		48	5.3
85-01-8	Phenanthrene	300		9.7	4.7
129-00-0	Pyrene	280		24	4.5

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17021.D  
 Lab Smp Id: 680-89275-A-16-A Client Smp ID: CV0050B-CS-SP  
 Inj Date : 17-APR-2013 15:48  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-16-a  
 Misc Info : 680-89275-A-16-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 21  
 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	14.890	Weight Extracted
M	16.741	% 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		3.669	3.663	(1.000)	360997	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	255342	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	440289	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.043)	35461	5.55332	447.9477	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	470429	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	447009	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	19419	1.99000	160.5190	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	11405	2.02026	162.9601	
4 1-Methylnaphthalene	142		4.169	4.168	(1.136)	9453	1.51655	122.3293	
5 Acenaphthylene	152		4.669	4.663	(0.983)	5781	0.53430	43.0981	
9 Fluorene	166		5.092	5.092	(1.072)	3412	0.41119	33.1682	
11 Phenanthrene	178		5.716	5.709	(1.003)	47322	3.66703	295.7933	
12 Anthracene	178		5.745	5.745	(1.008)	4833	0.37811	30.4993	
13 Carbazole	167		5.857	5.851	(1.028)	6863	0.57650	46.5023	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.545	6.545	(1.149)	49835	3.48910	281.4410
16 Pyrene	202	6.710	6.709	(0.879)	46644	3.48526	281.1317
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	33716	2.53450	204.4406(Q)
19 Chrysene	228	7.651	7.651	(1.002)	56259	4.27507	344.8397
20 Benzo(b)fluoranthene	252	8.457	8.450	(0.962)	55771	4.93972	398.4530(M)
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.964)	16976	1.32878	107.1836(QMH)
22 Benzo(a)pyrene	252	8.733	8.733	(0.993)	30608	2.62265	211.5512
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903	(1.127)	15199	1.95028	157.3156(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915	(1.128)	9848	1.30737	105.4564(M)
26 Benzo(g,h,i)perylene	276	10.245	10.233	(1.165)	25076	2.29236	184.9090

QC Flag Legend

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

Data File: 1CD17021.D

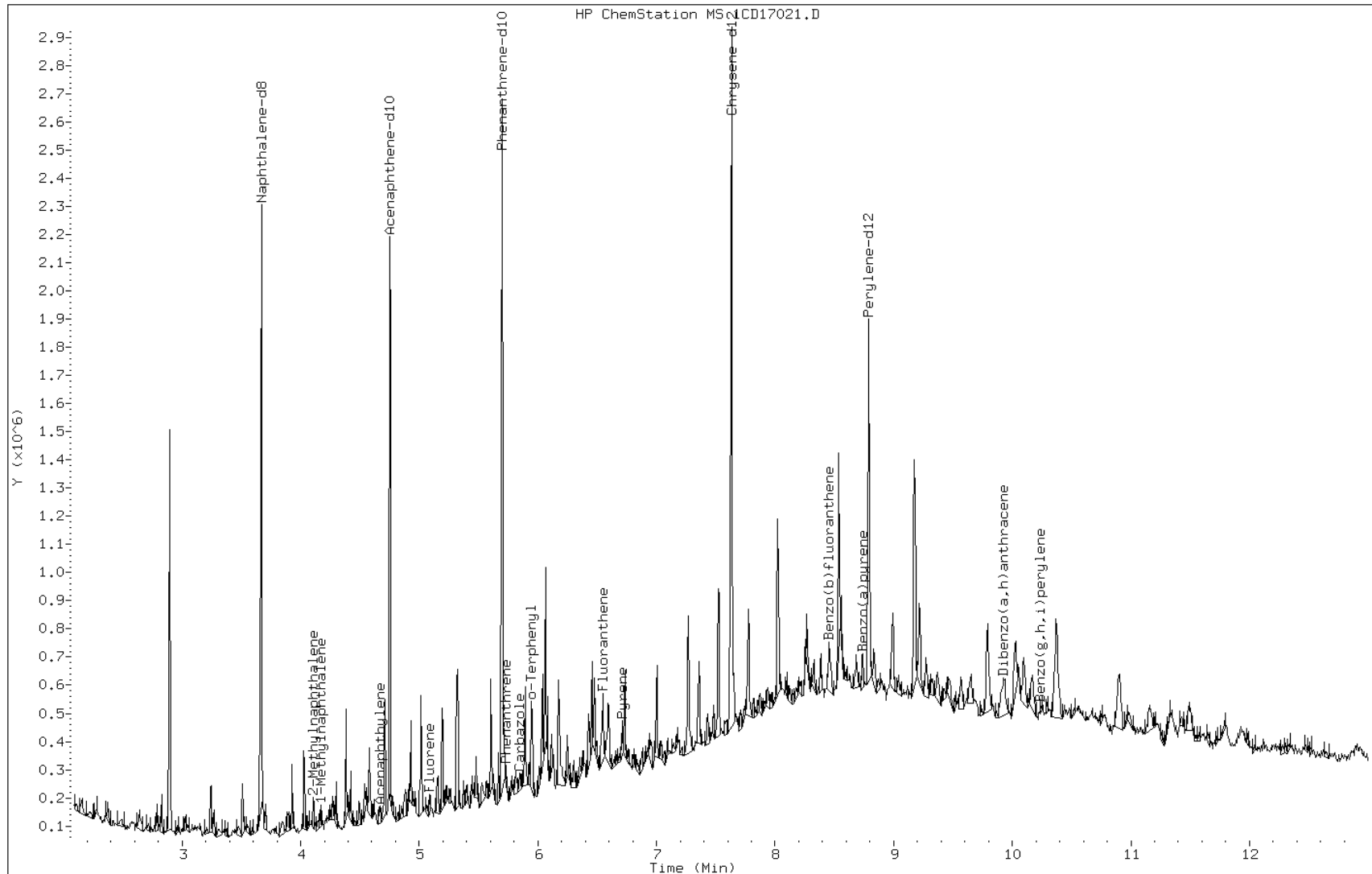
Date: 17-APR-2013 15:48

Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC



Data File: 1CDI17021.D

Date: 17-APR-2013 15:48

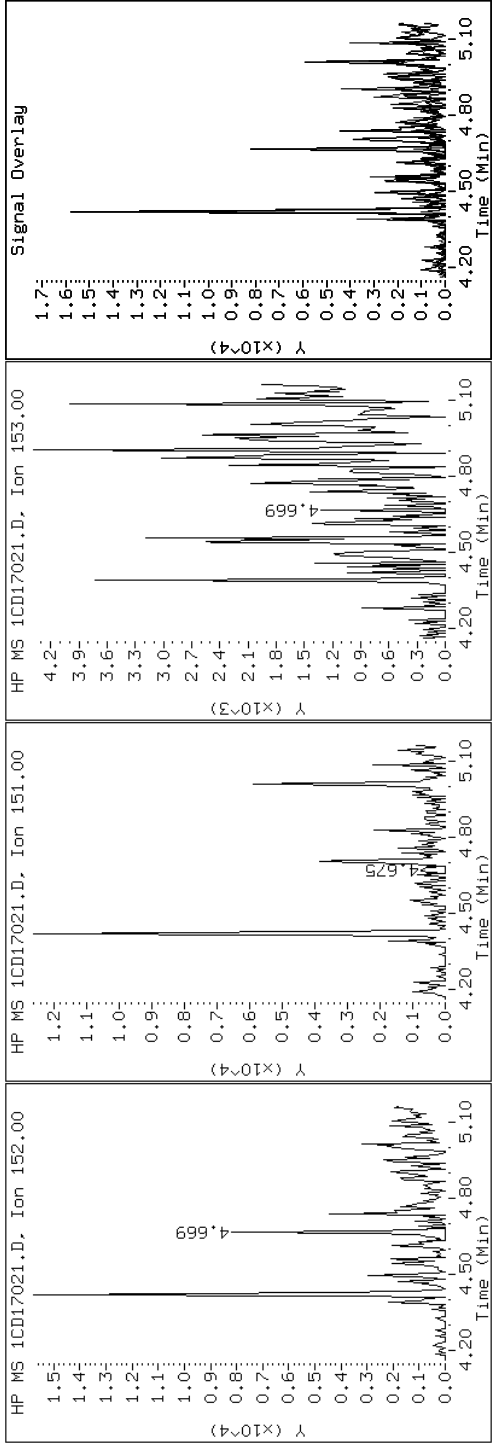
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

5 Acenaphthylene



Data File: 1CDI17021.D

Date: 17-APR-2013 15:48

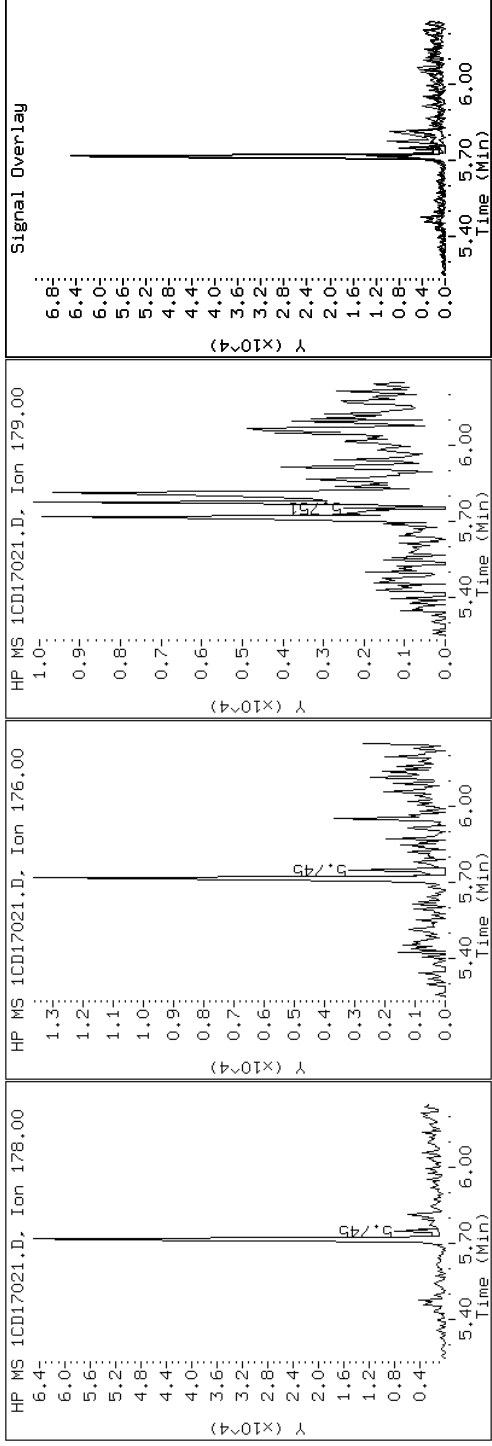
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

12 Anthracene





Data File: 1CD17021.D

Date: 17-APR-2013 15:48

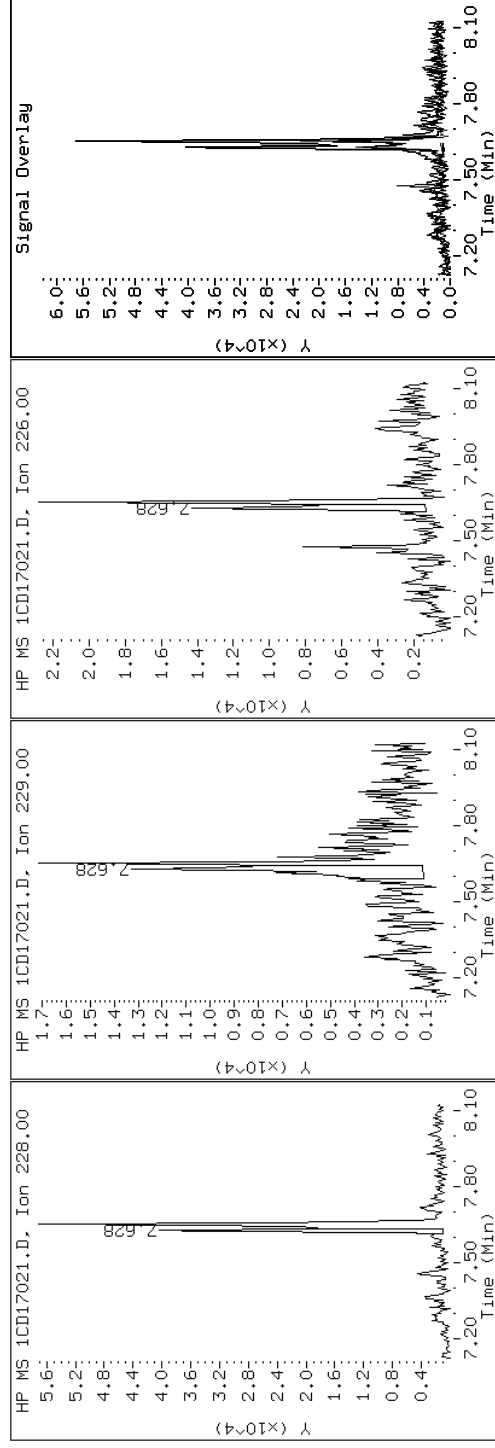
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

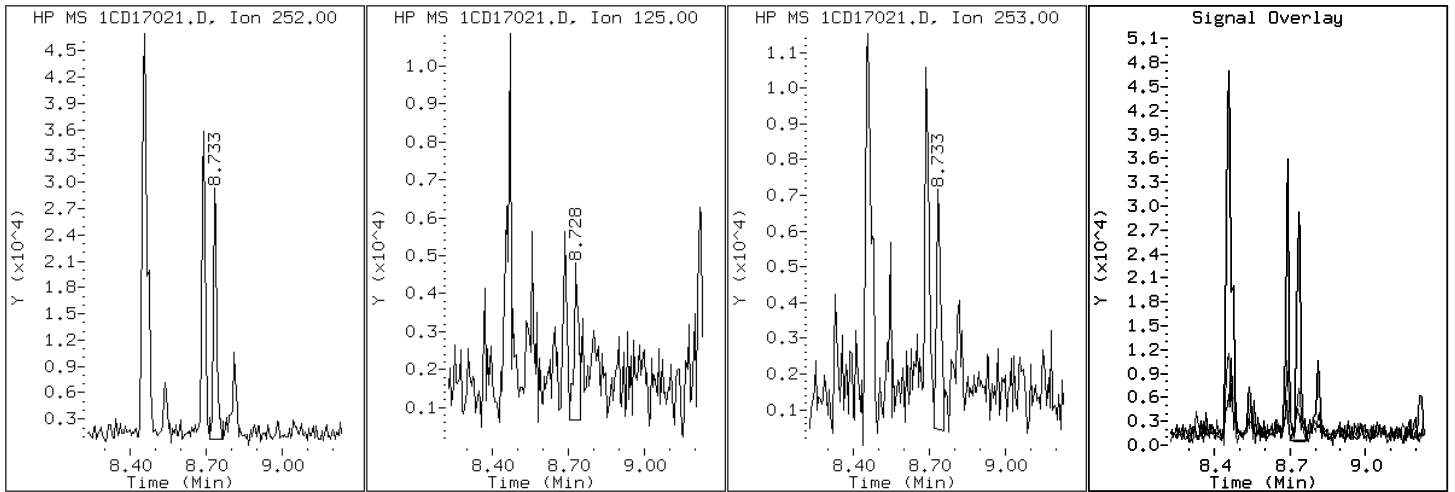
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

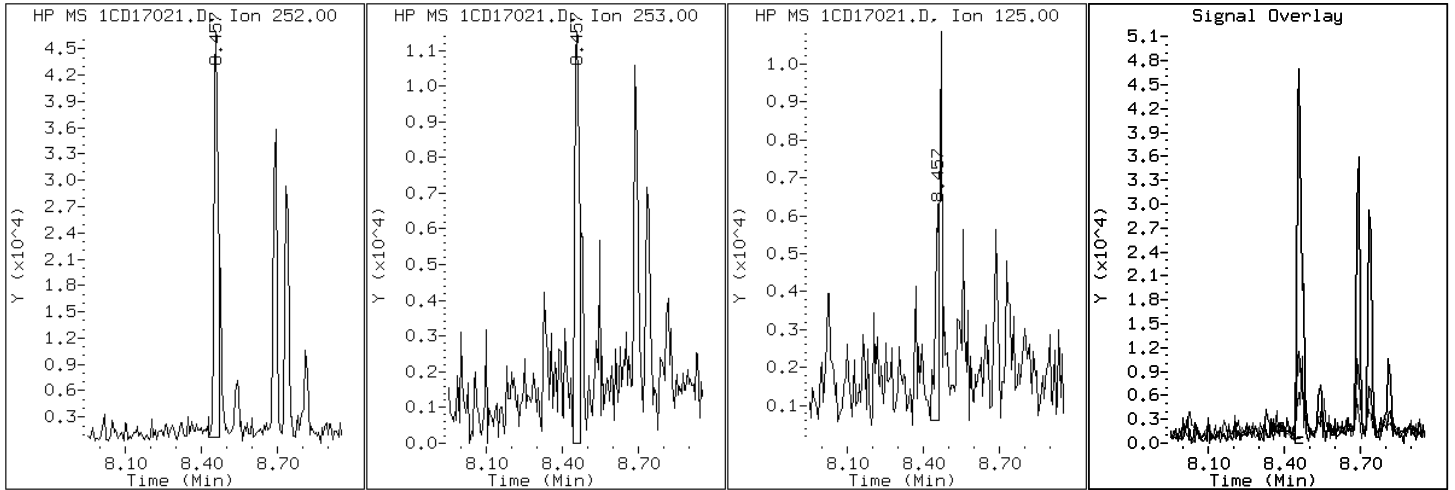
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CDI17021.D

Date: 17-APR-2013 15:48

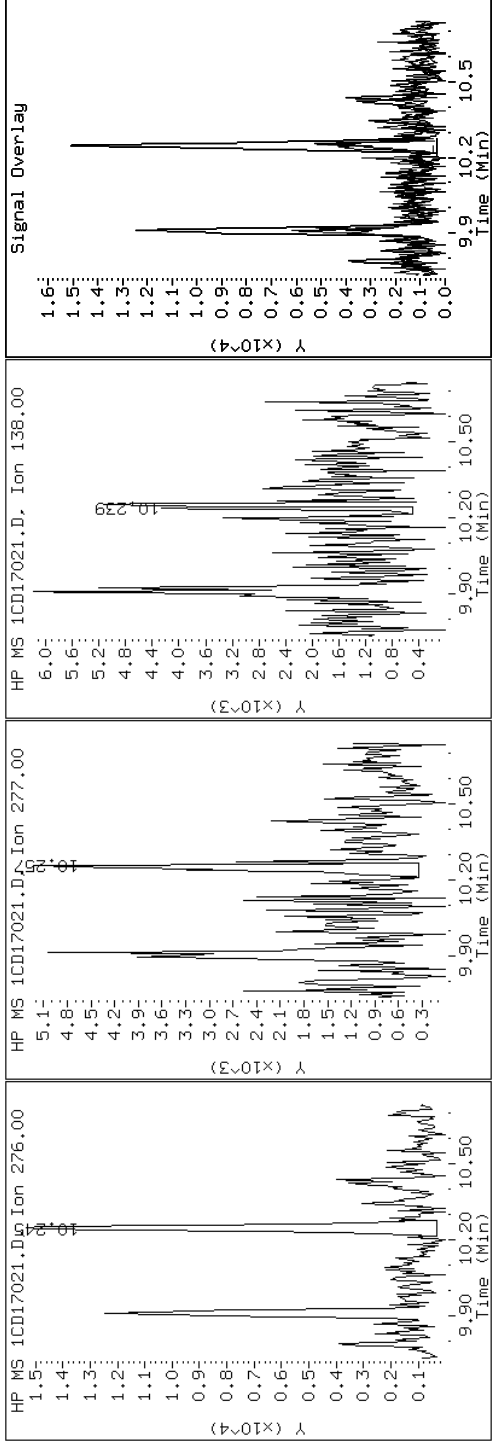
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

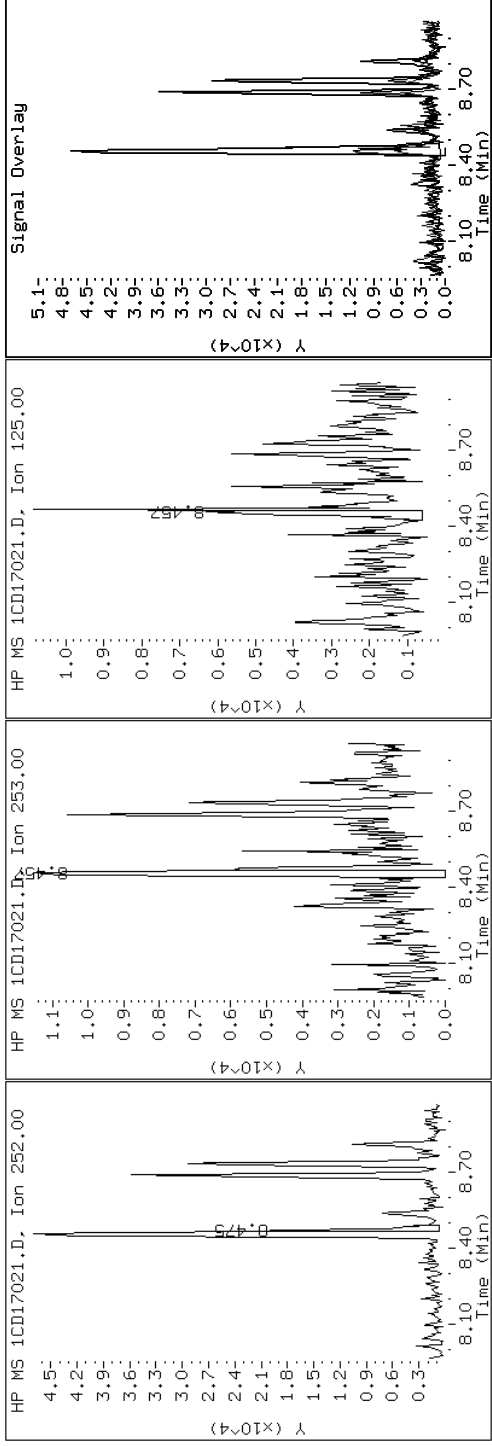
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CDI7021.D

Date: 17-APR-2013 15:48

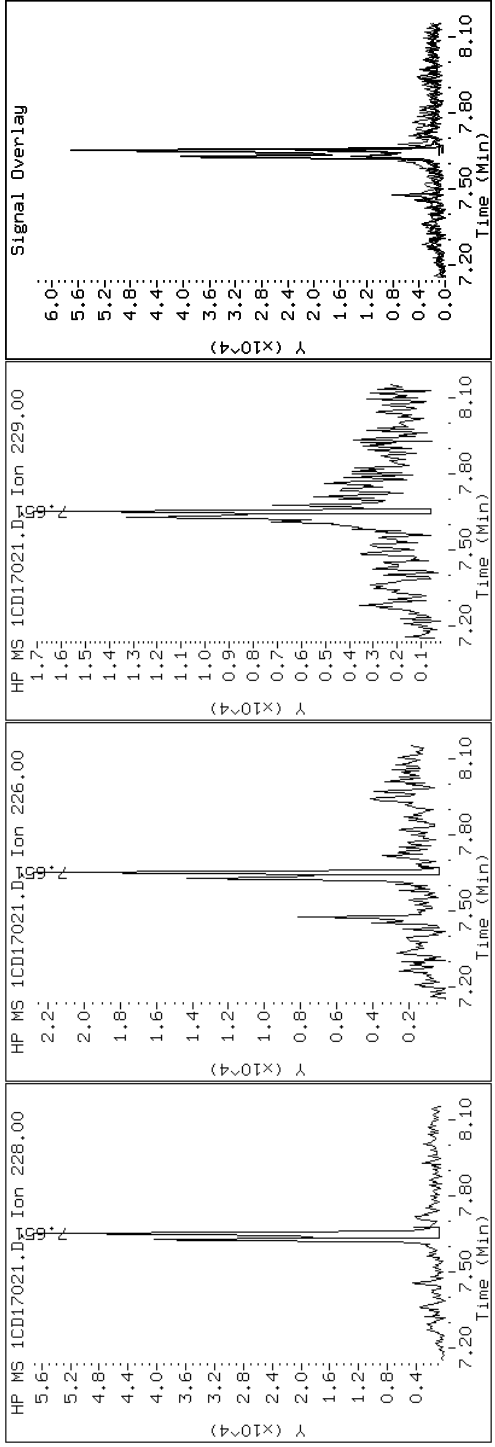
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

19 Chrysene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

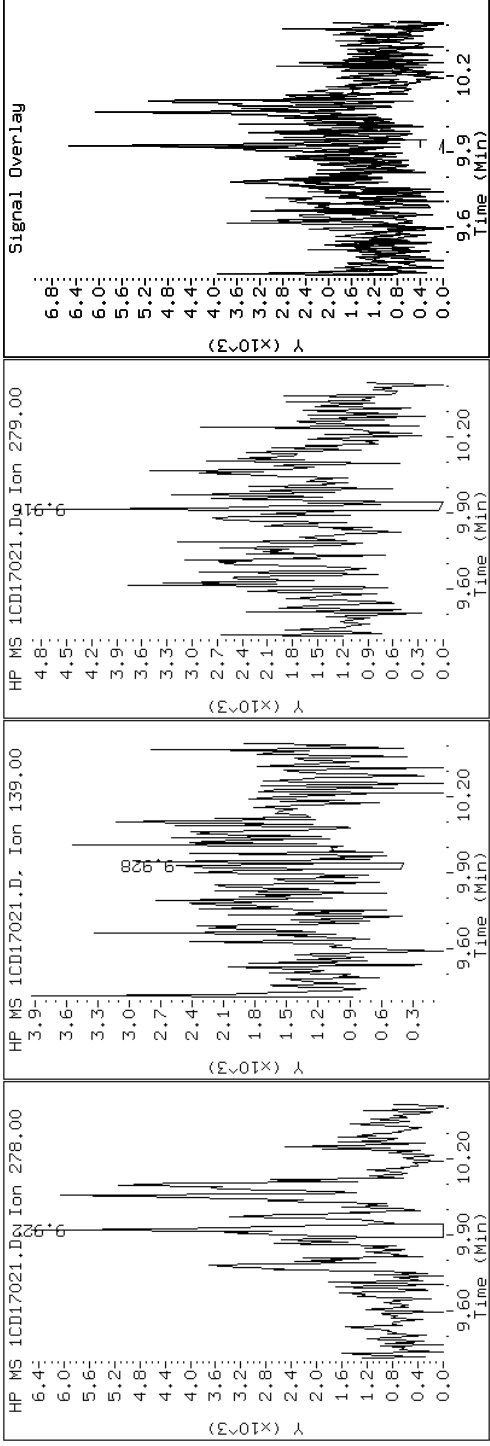
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

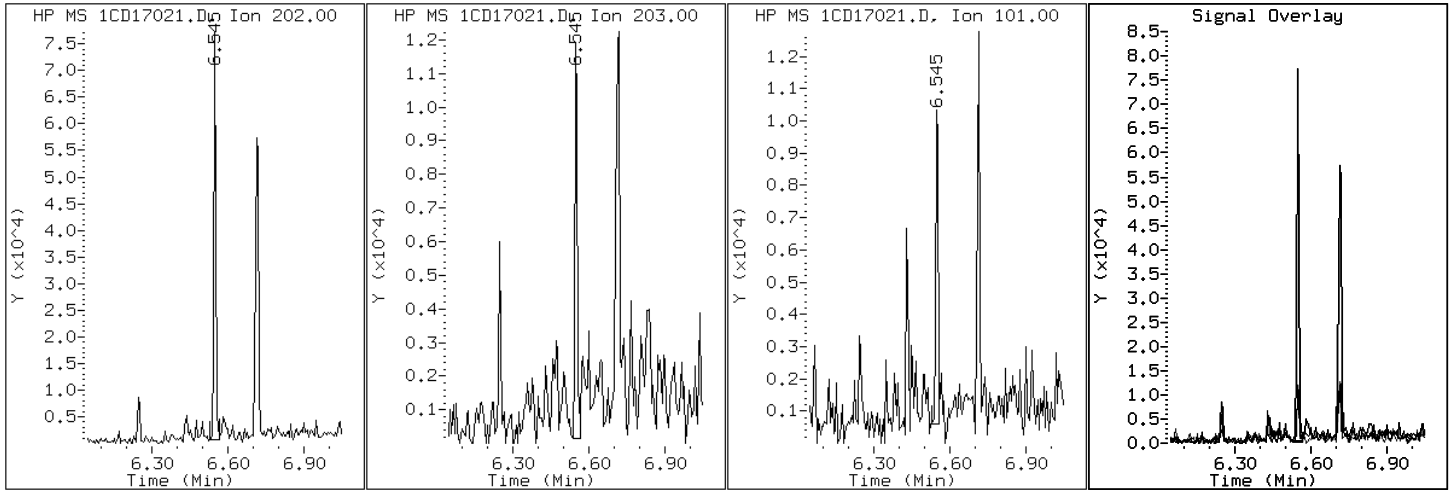
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

15 Fluoranthene





Data File: 1CD17021.D

Date: 17-APR-2013 15:48

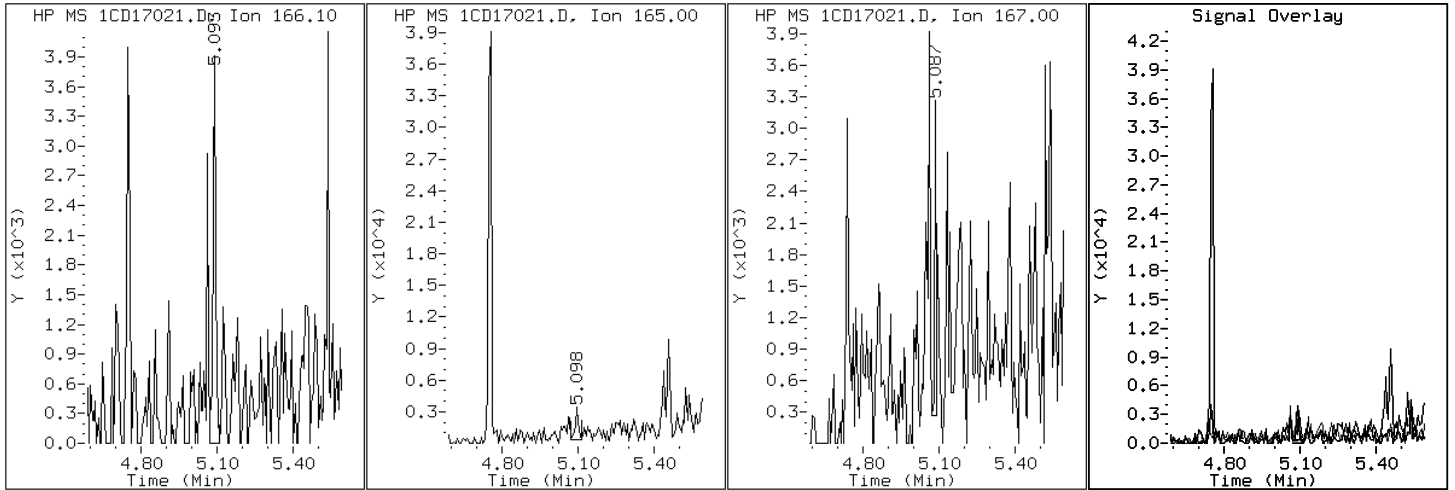
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

9 Fluorene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

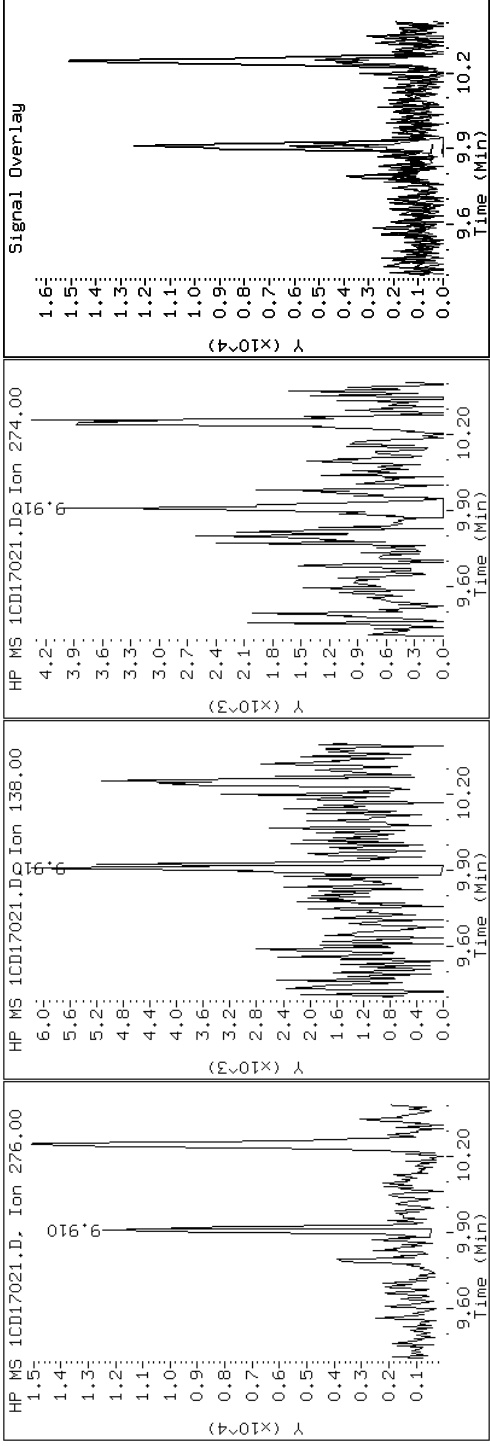
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

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



Data File: 1CDI17021.D

Date: 17-APR-2013 15:48

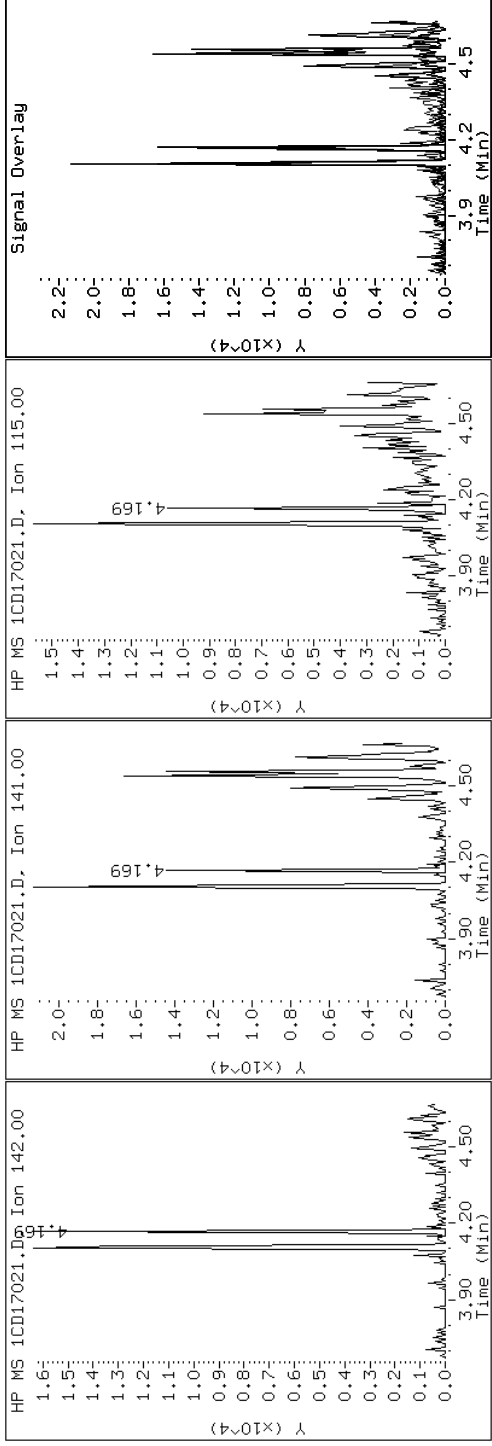
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

### 4 1-Methylnaphthalene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

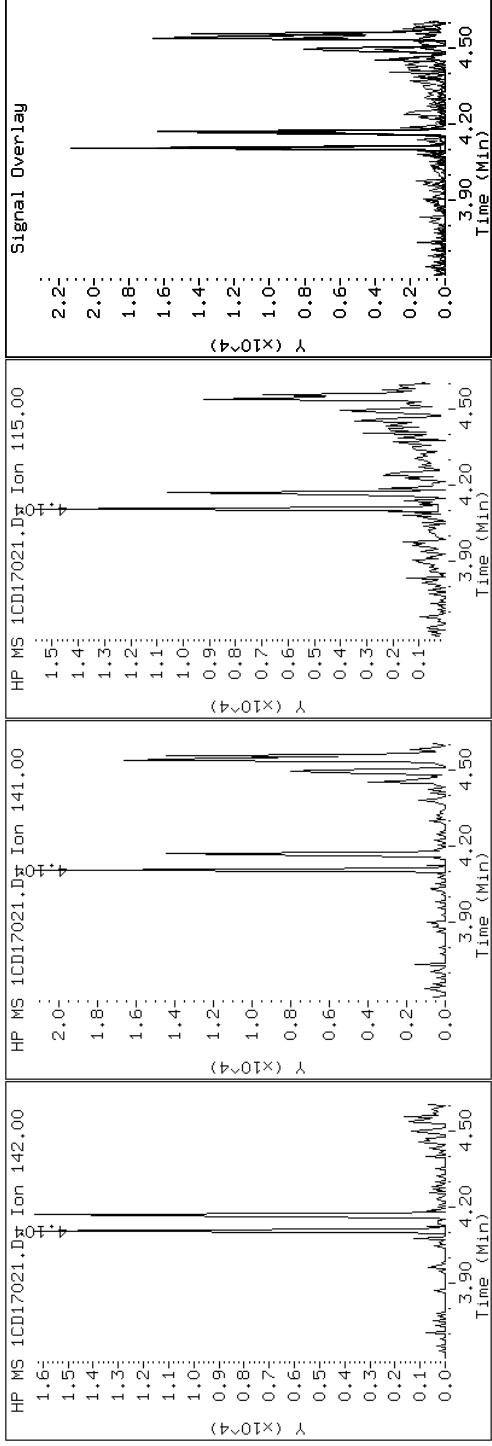
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

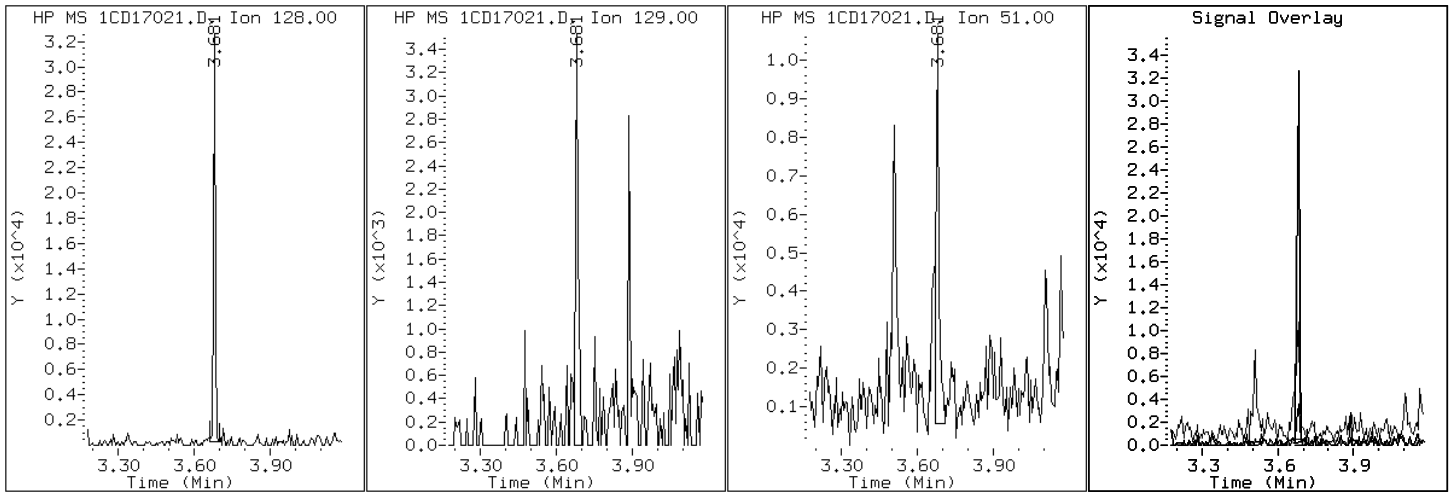
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

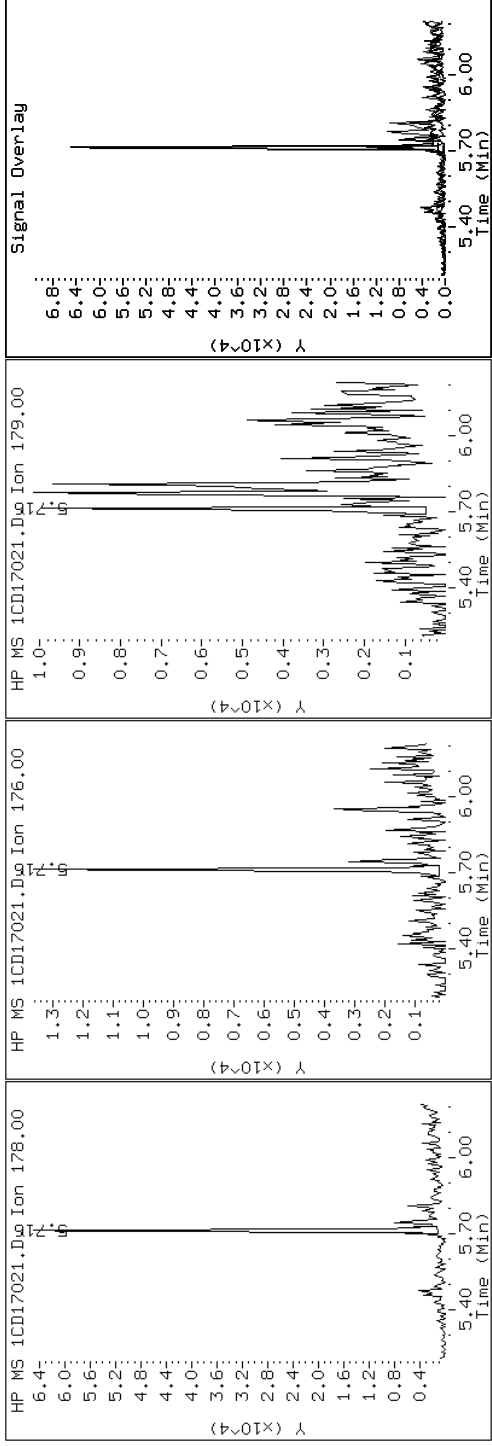
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17021.D

Date: 17-APR-2013 15:48

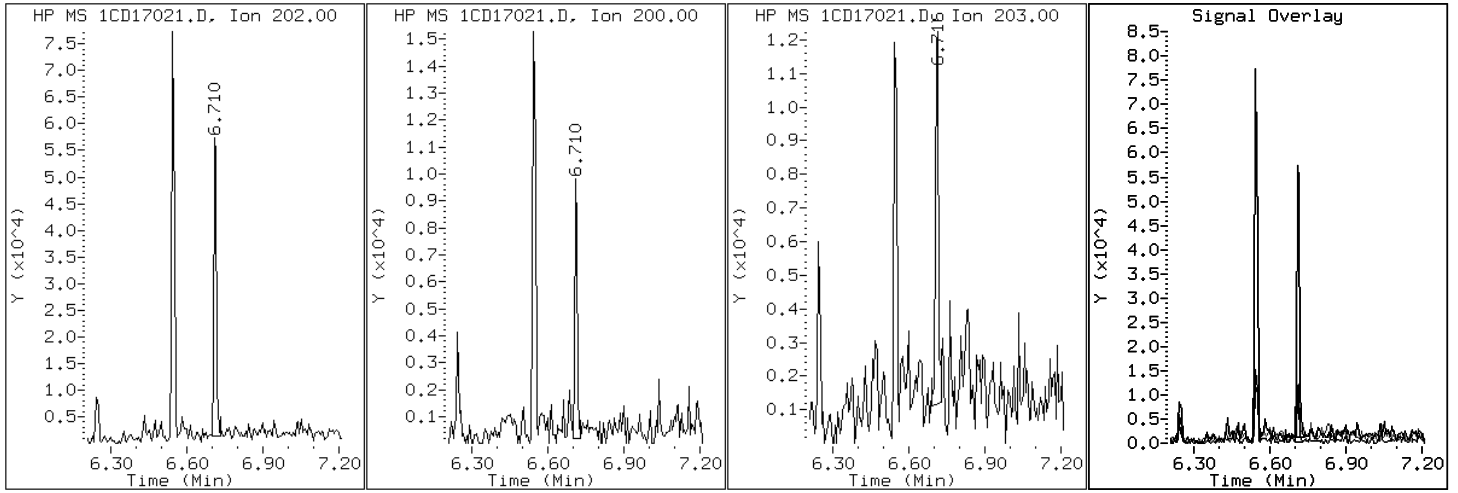
Client ID: CV0050B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-16-a

Operator: SCC

16 Pyrene

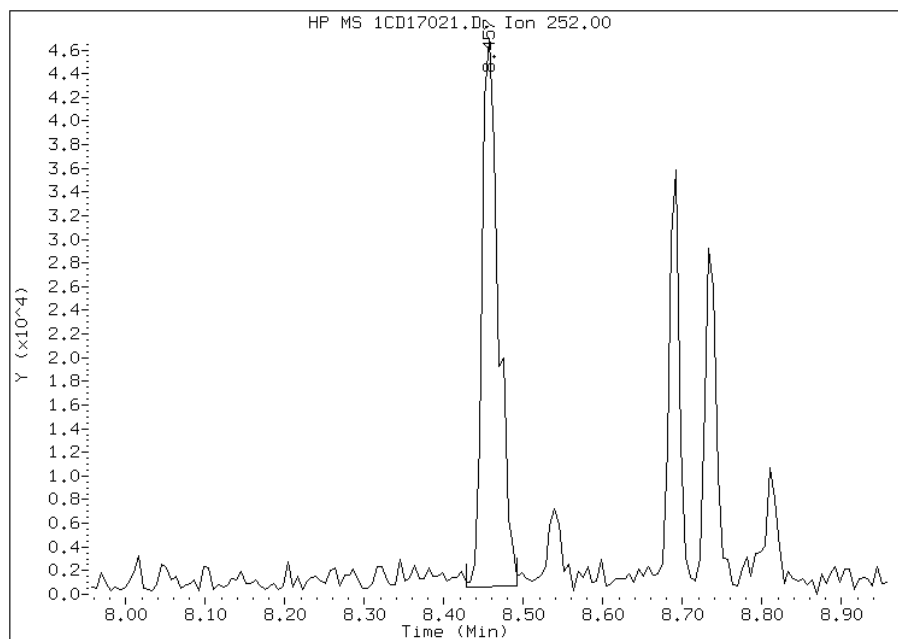


# Manual Integration Report

Data File: 1CD17021.D  
Inj. Date and Time: 17-APR-2013 15:48  
Instrument ID: BSMC5973.i  
Client ID: CV0050B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

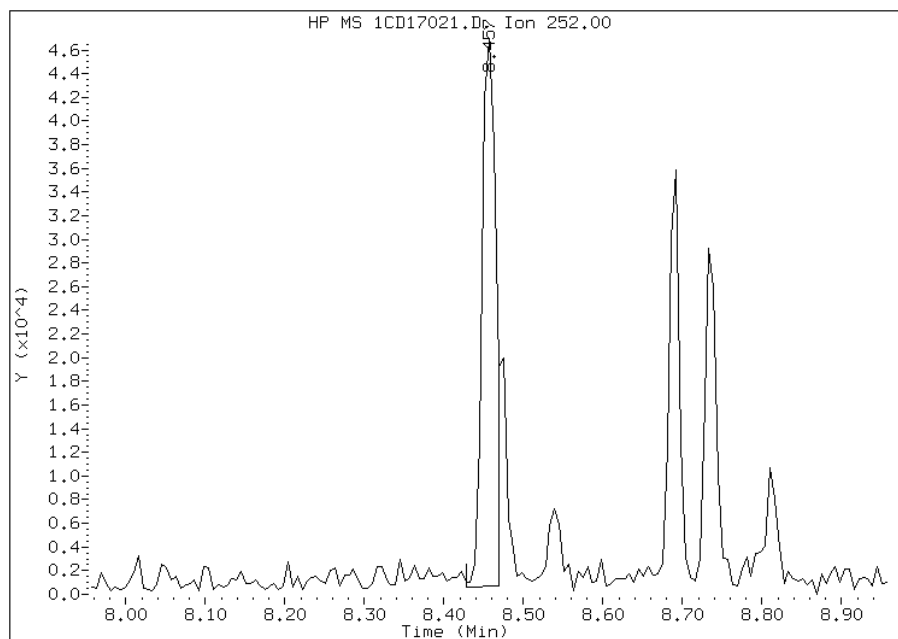
## Processing Integration Results

RT: 8.46  
Response: 66200  
Amount: 6  
Conc: 473



## Manual Integration Results

RT: 8.46  
Response: 55771  
Amount: 5  
Conc: 398



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:38  
Manual Integration Reason: Split Peak

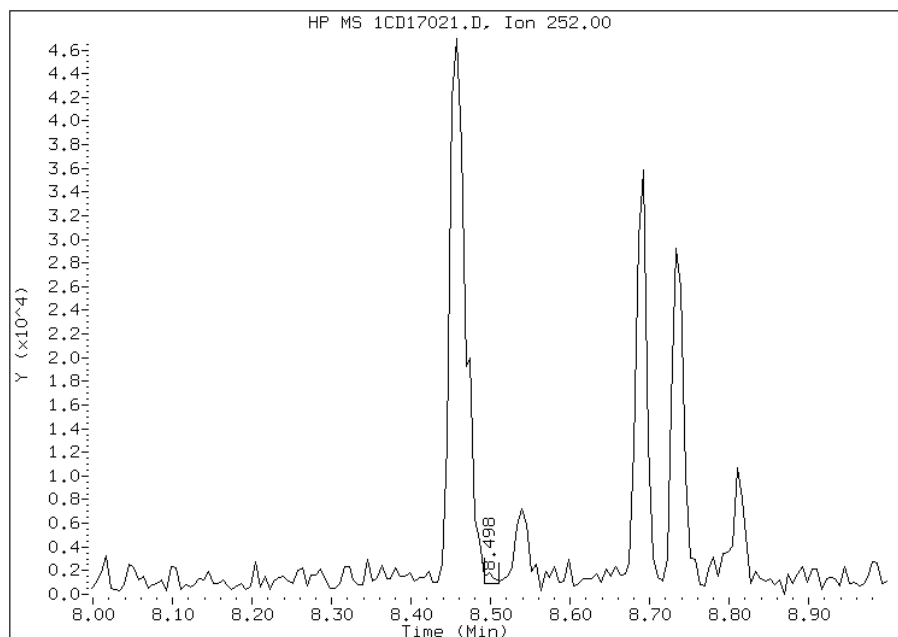


# Manual Integration Report

Data File: 1CD17021.D  
Inj. Date and Time: 17-APR-2013 15:48  
Instrument ID: BSMC5973.i  
Client ID: CV0050B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

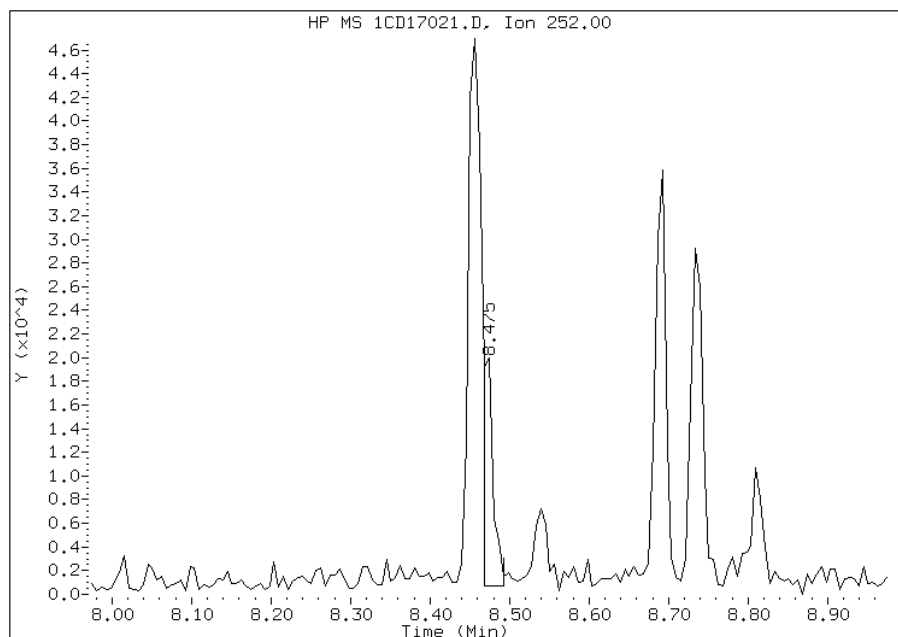
## Processing Integration Results

RT: 8.50  
Response: 730  
Amount: 0  
Conc: 5



## Manual Integration Results

RT: 8.47  
Response: 16976  
Amount: 1  
Conc: 107



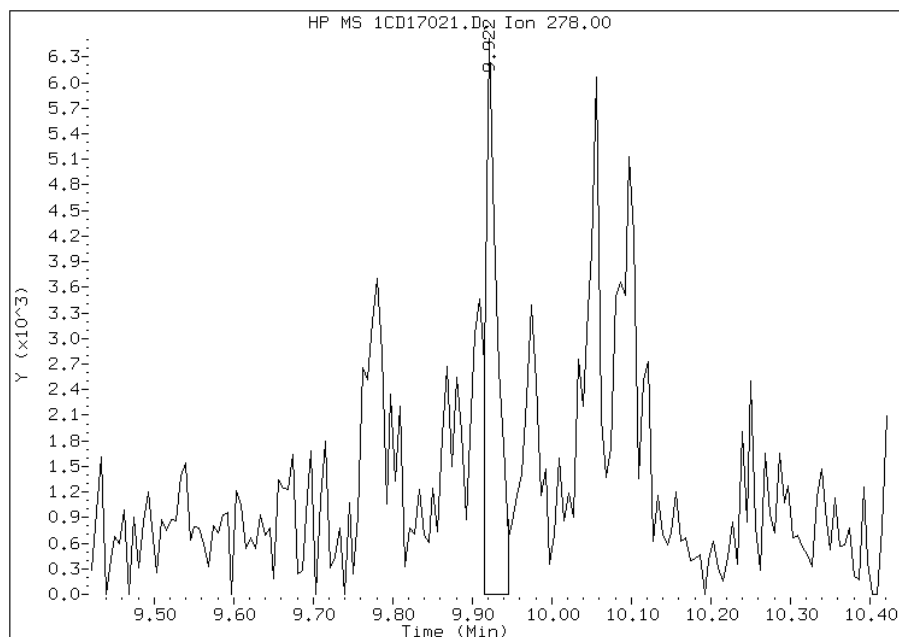
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:39  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17021.D  
Inj. Date and Time: 17-APR-2013 15:48  
Instrument ID: BSMC5973.i  
Client ID: CV0050B-CS-SP  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/18/2013

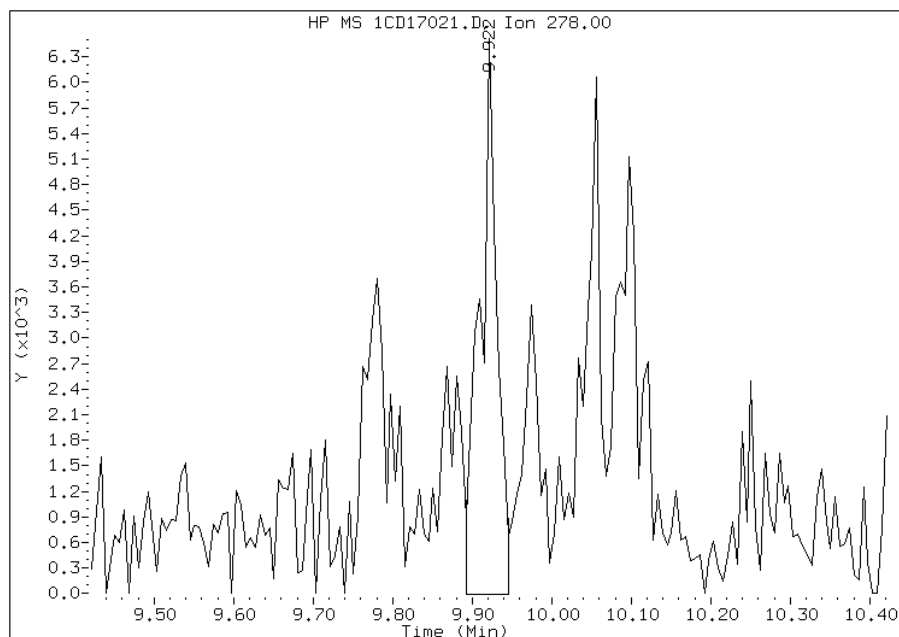
## Processing Integration Results

RT: 9.92  
Response: 6554  
Amount: 1  
Conc: 82



## Manual Integration Results

RT: 9.92  
Response: 9848  
Amount: 1  
Conc: 105



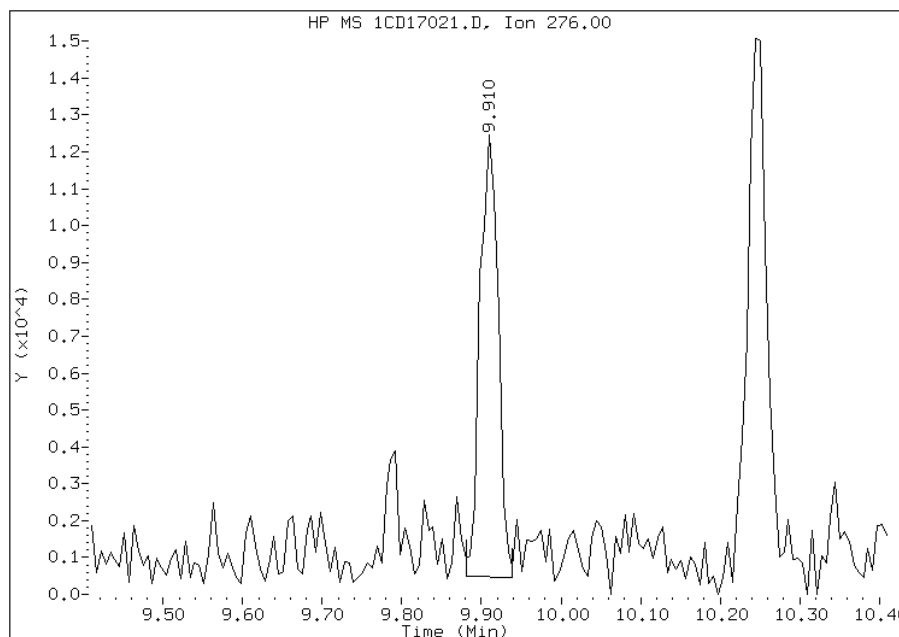
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:39  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17021.D  
Inj. Date and Time: 17-APR-2013 15:48  
Instrument ID: BSMC5973.i  
Client ID: CV0050B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

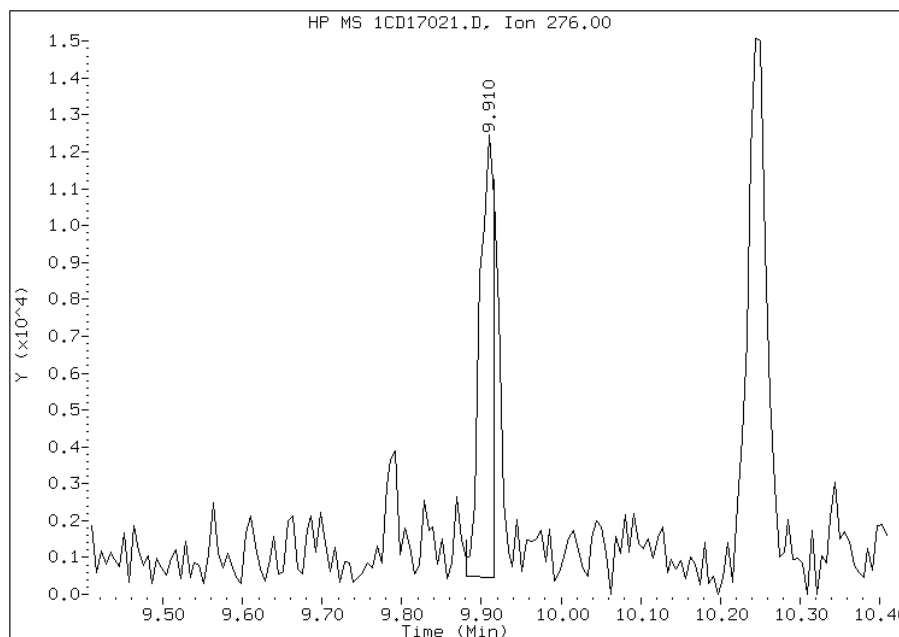
## Processing Integration Results

RT: 9.91  
Response: 18844  
Amount: 2  
Conc: 183



## Manual Integration Results

RT: 9.91  
Response: 15199  
Amount: 2  
Conc: 157



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:39  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0133A-CS-SP Lab Sample ID: 680-89275-17  
 Matrix: Solid Lab File ID: 1CD17022.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 09:48  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.00(g) Date Analyzed: 04/17/2013 16:06  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	36	J	49	6.2
120-12-7	Anthracene	43		10	5.2
56-55-3	Benzo[a]anthracene	170		9.8	4.8
50-32-8	Benzo[a]pyrene	150		13	6.4
205-99-2	Benzo[b]fluoranthene	310		15	7.5
191-24-2	Benzo[g,h,i]perylene	150		25	5.4
207-08-9	Benzo[k]fluoranthene	97		9.8	4.4
218-01-9	Chrysene	270		11	5.5
53-70-3	Dibenz(a,h)anthracene	69		25	5.0
206-44-0	Fluoranthene	290		25	4.9
86-73-7	Fluorene	15	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	140		25	8.7
90-12-0	1-Methylnaphthalene	110		49	5.4
91-57-6	2-Methylnaphthalene	150		49	8.7
91-20-3	Naphthalene	91		49	5.4
85-01-8	Phenanthrene	280		9.8	4.8
129-00-0	Pyrene	250		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17022.D  
 Lab Smp Id: 680-89275-A-17-A Client Smp ID: CV0133A-CS-SP  
 Inj Date : 17-APR-2013 16:06  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-17-a  
 Misc Info : 680-89275-A-17-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 22  
 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	15.000	Weight Extracted
M	18.707	% 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		3.669	3.663	(1.000)	340315	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	245654	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	430568	40.0000		
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	35549	5.67547	465.4317	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	484355	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	458373	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	10250	1.11422	91.3746	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	9530	1.82170	149.3934	
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	7965	1.35548	111.1600	
5 Acenaphthylene	152		4.668	4.663	(0.983)	4549	0.43701	35.8384	
9 Fluorene	166		5.092	5.092	(1.072)	1498	0.18765	15.3887(Q)	
11 Phenanthrene	178		5.715	5.709	(1.003)	43322	3.43310	281.5398	
12 Anthracene	178		5.745	5.745	(1.008)	6539	0.52313	42.9002	
13 Carbazole	167		5.857	5.851	(1.028)	6143	0.52767	43.2729	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.545	6.545	(1.149)	49721	3.55971	291.9230
16 Pyrene	202	6.715	6.709	(0.880)	41587	3.01806	247.5035
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	28214	2.05993	168.9295
19 Chrysene	228	7.651	7.651	(1.002)	44599	3.29159	269.9356
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.962)	43684	3.77324	309.4338(M)
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.963)	15520	1.18470	97.1542(M)
22 Benzo(a)pyrene	252	8.739	8.733	(0.994)	21351	1.78411	146.3105
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903	(1.127)	12245	1.66933	136.8974(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915	(1.128)	4558	0.83535	68.5050(Q)
26 Benzo(g,h,i)perylene	276	10.245	10.233	(1.165)	20435	1.82179	149.4002

QC Flag Legend

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

Data File: 1CD17022.D

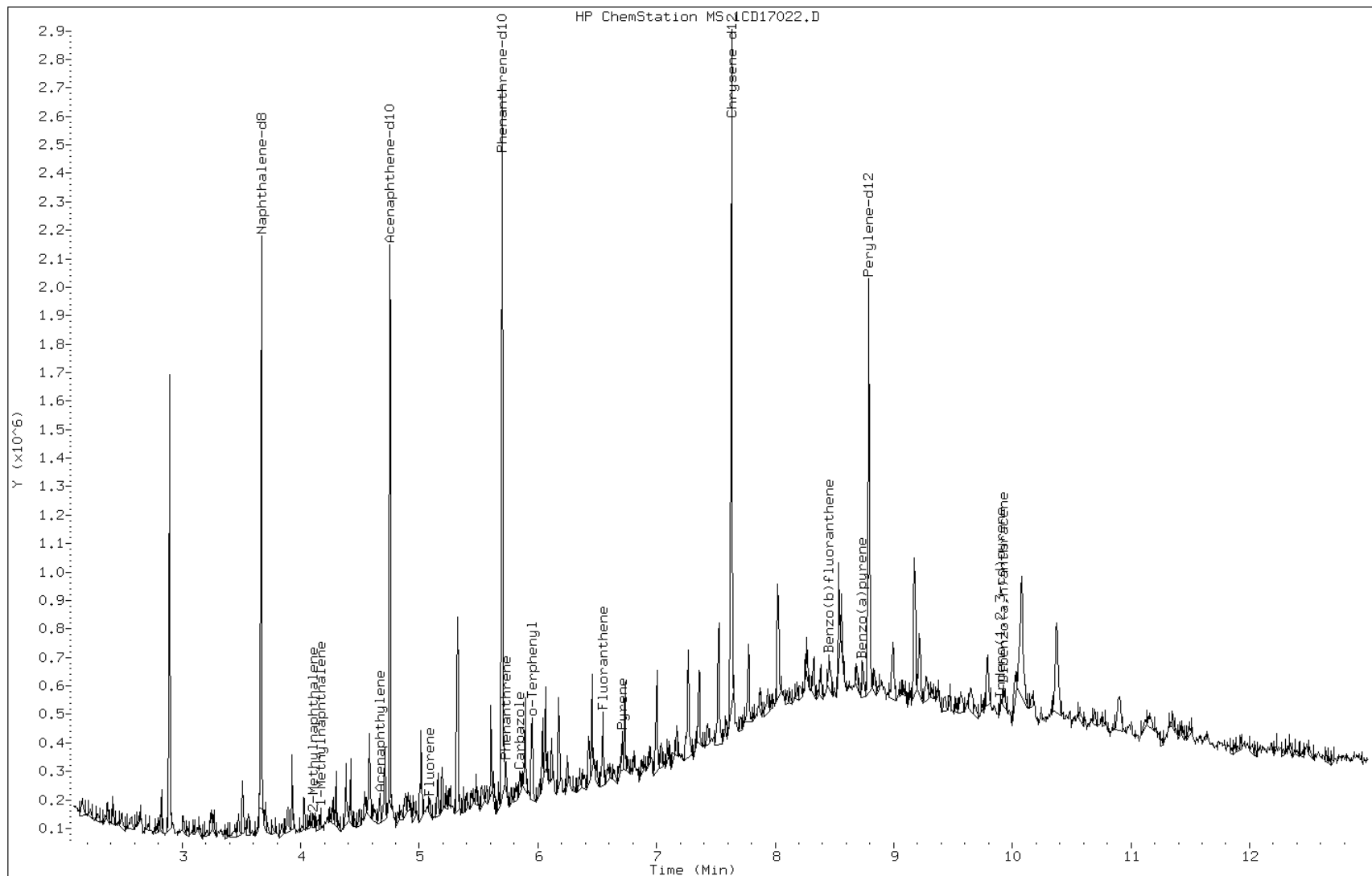
Date: 17-APR-2013 16:06

Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

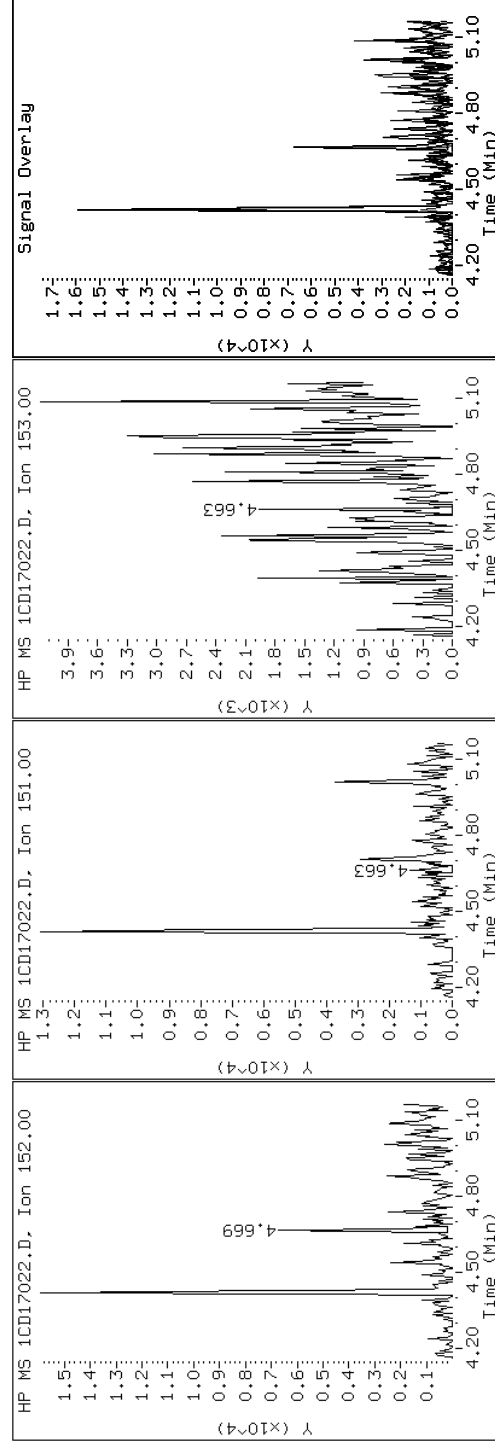
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

### 5 Acenaphthylene





Data File: 1CD17022.D

Date: 17-APR-2013 16:06

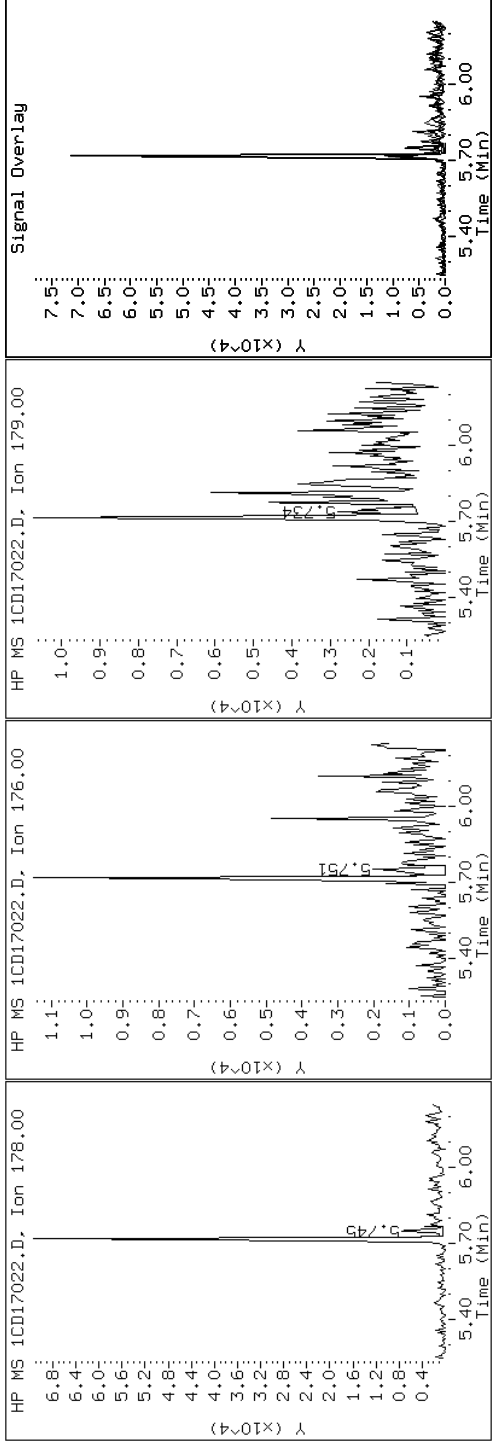
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

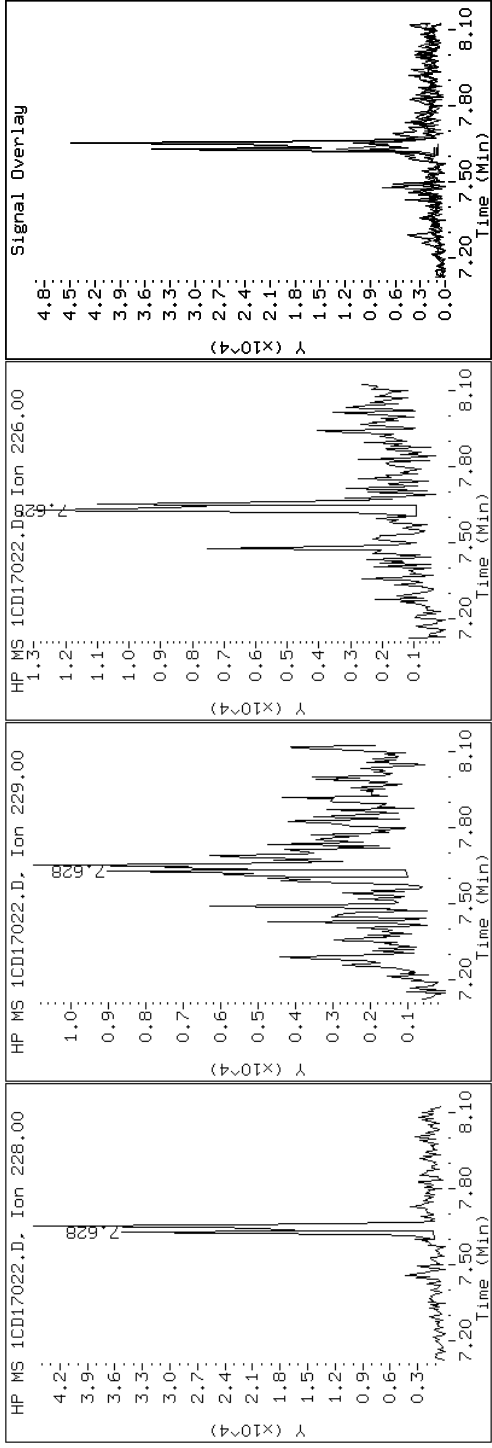
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

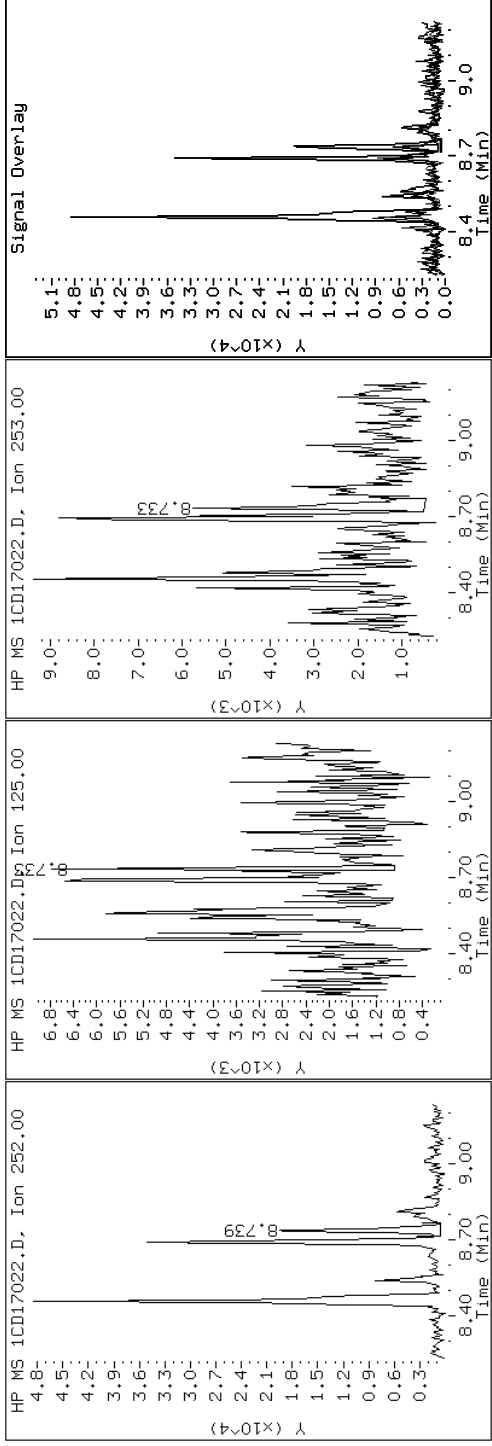
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

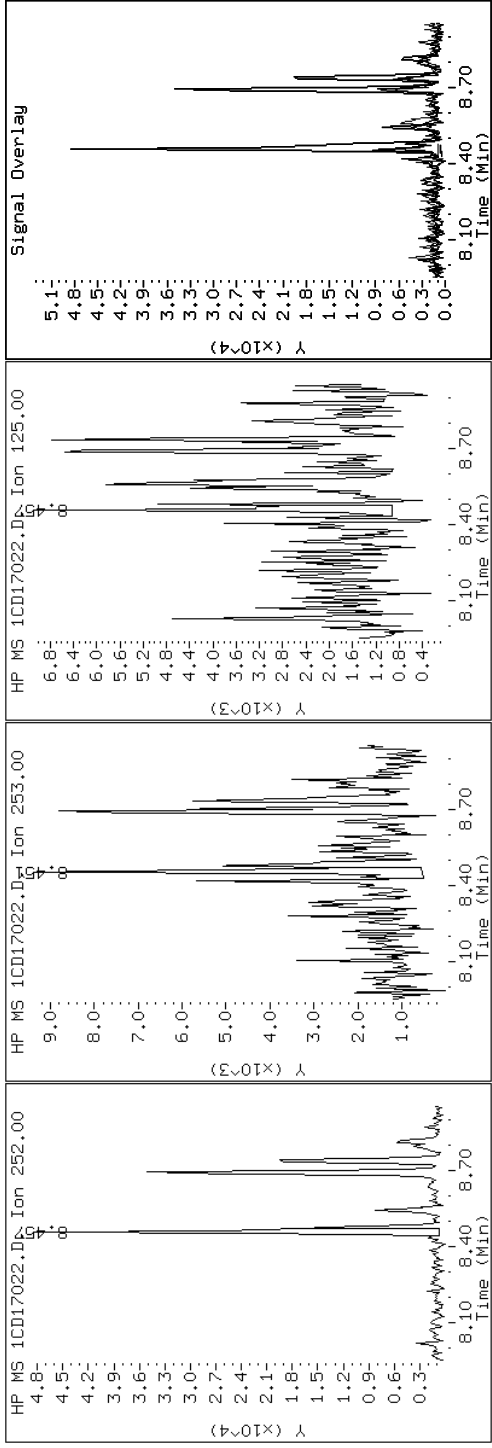
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

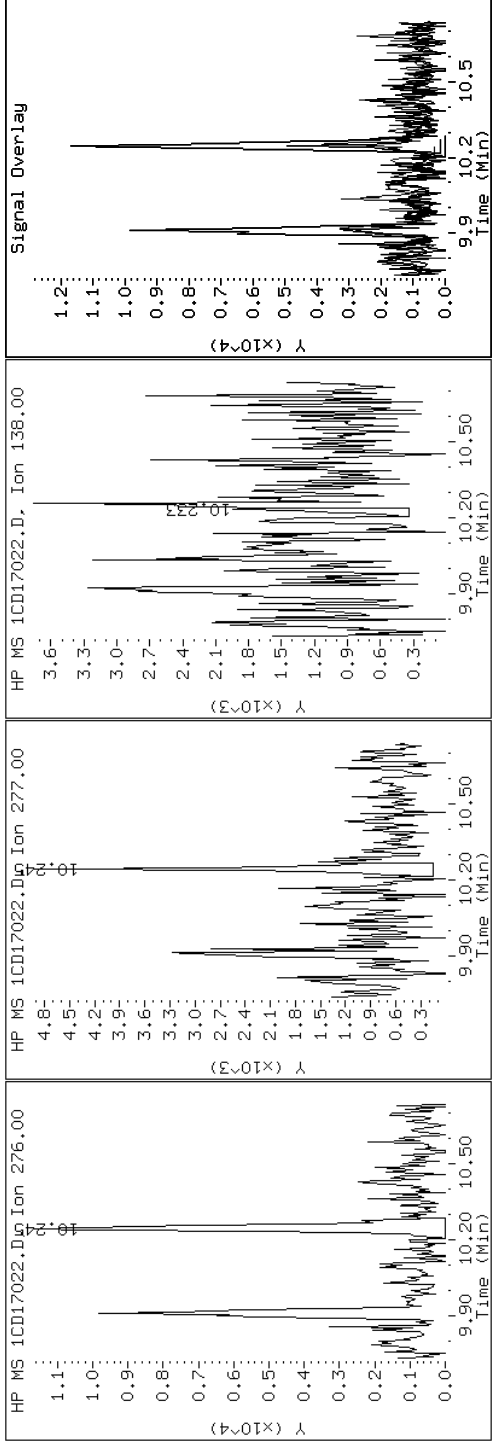
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

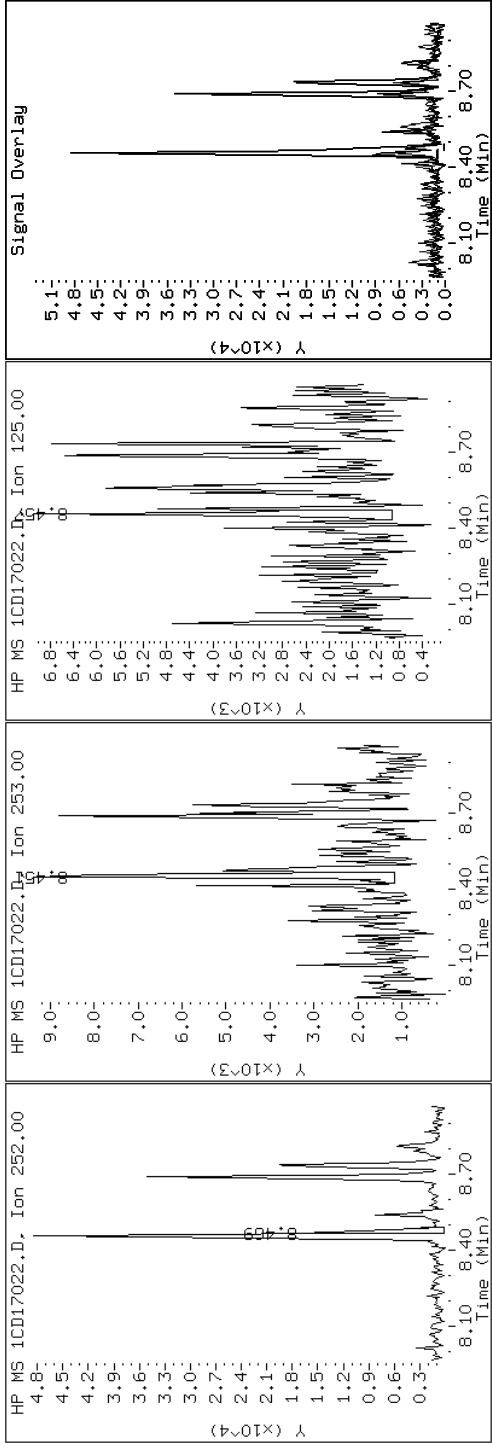
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

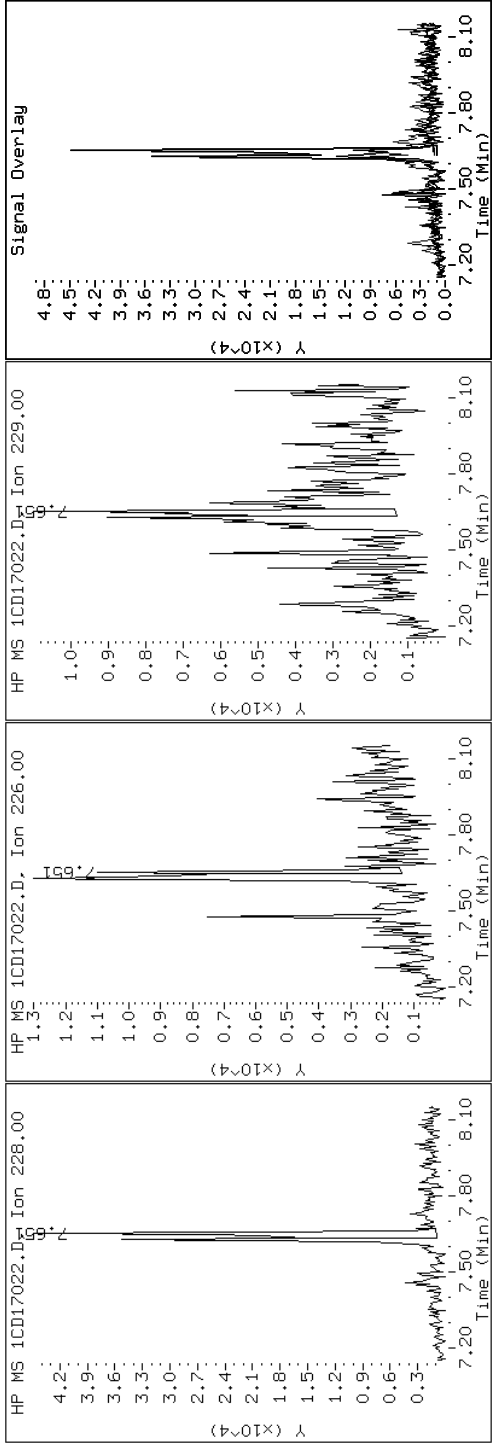
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

19 Chrysene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

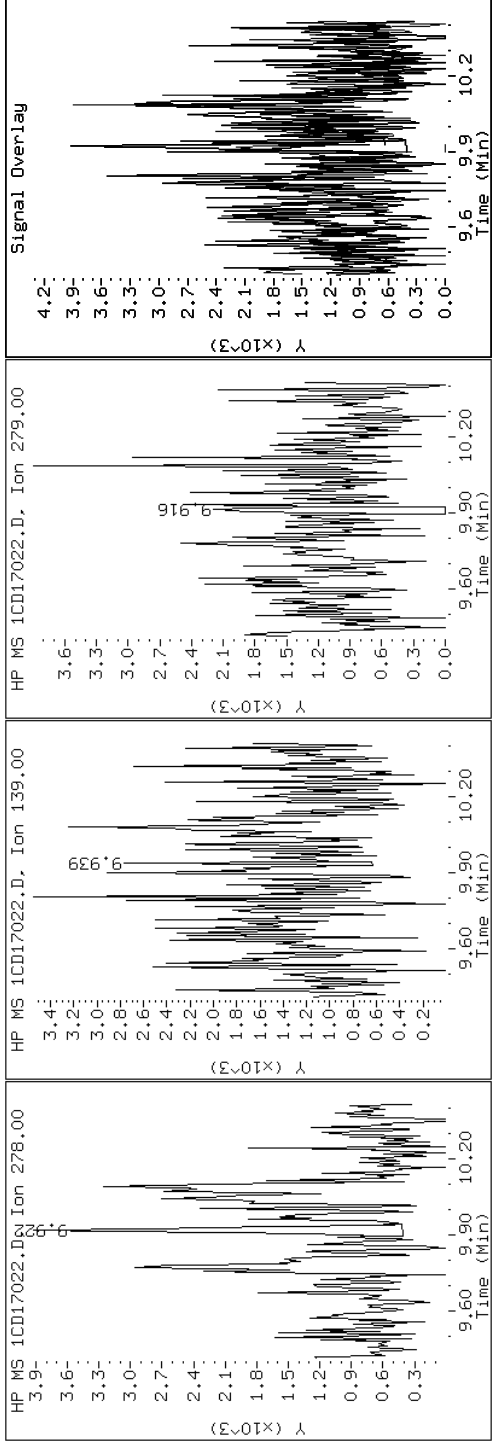
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

25 Dibenzo(a,h)anthracene





Data File: 1CD17022.D

Date: 17-APR-2013 16:06

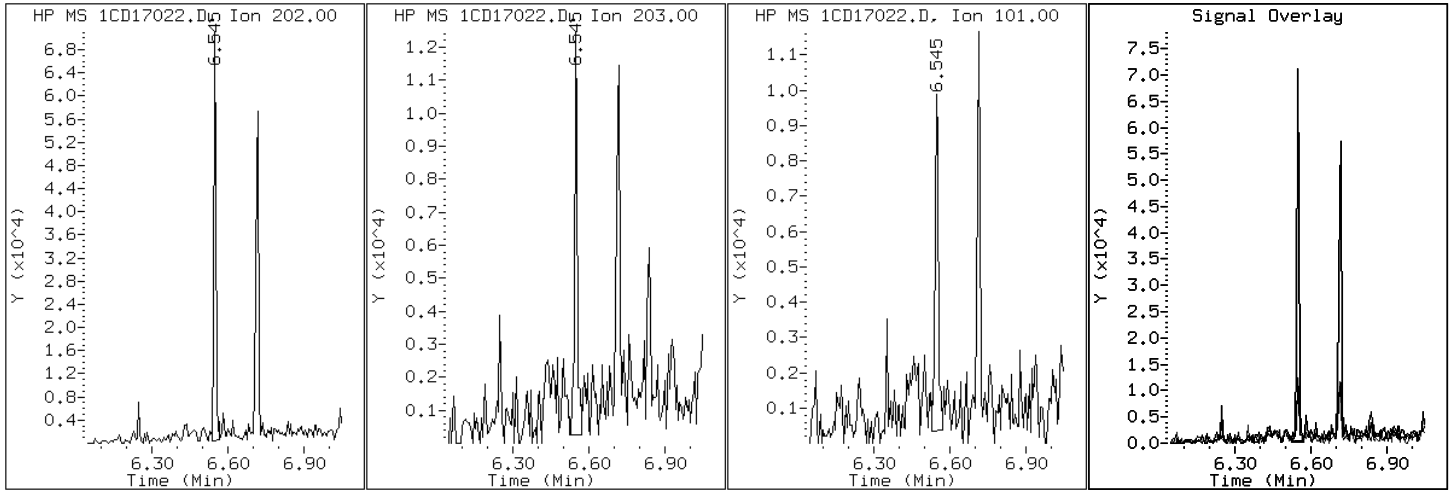
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

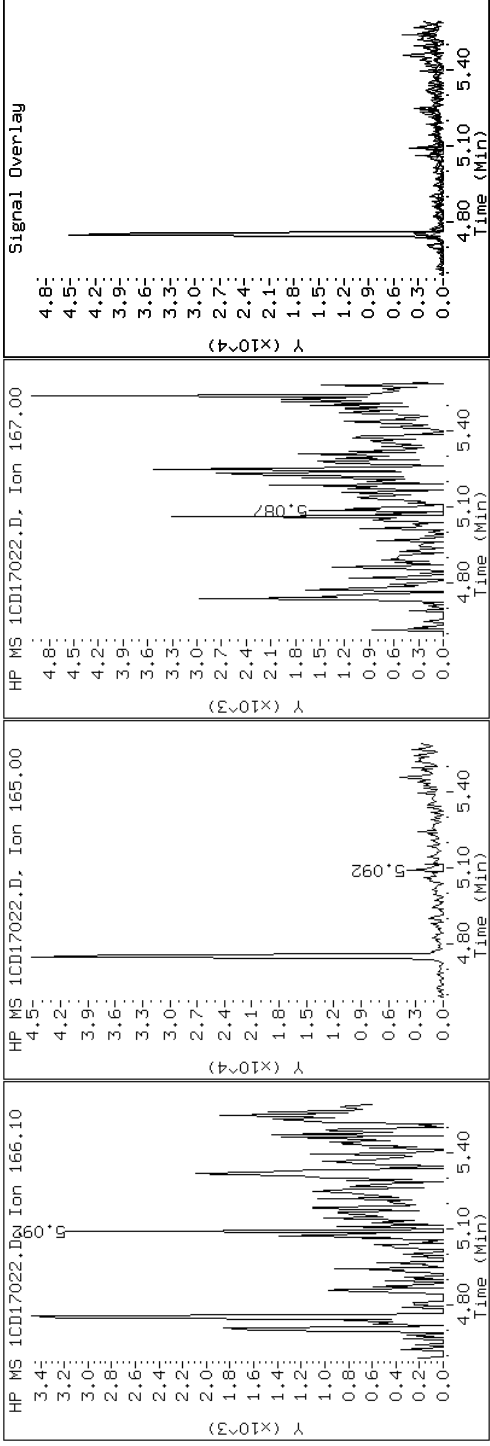
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

9 Fluorene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

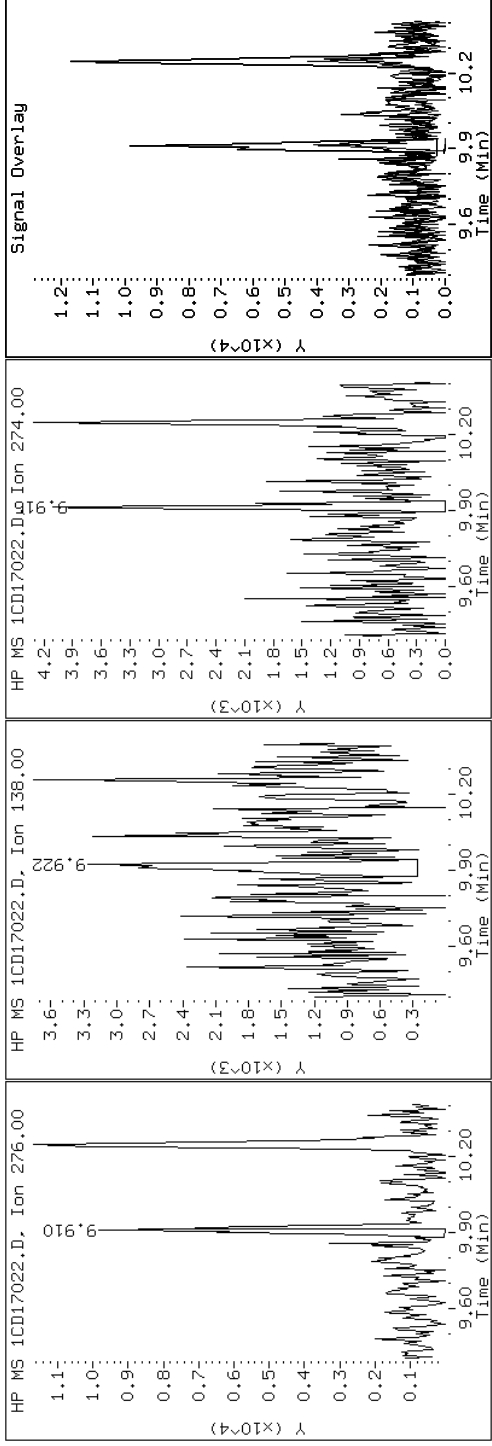
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

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



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

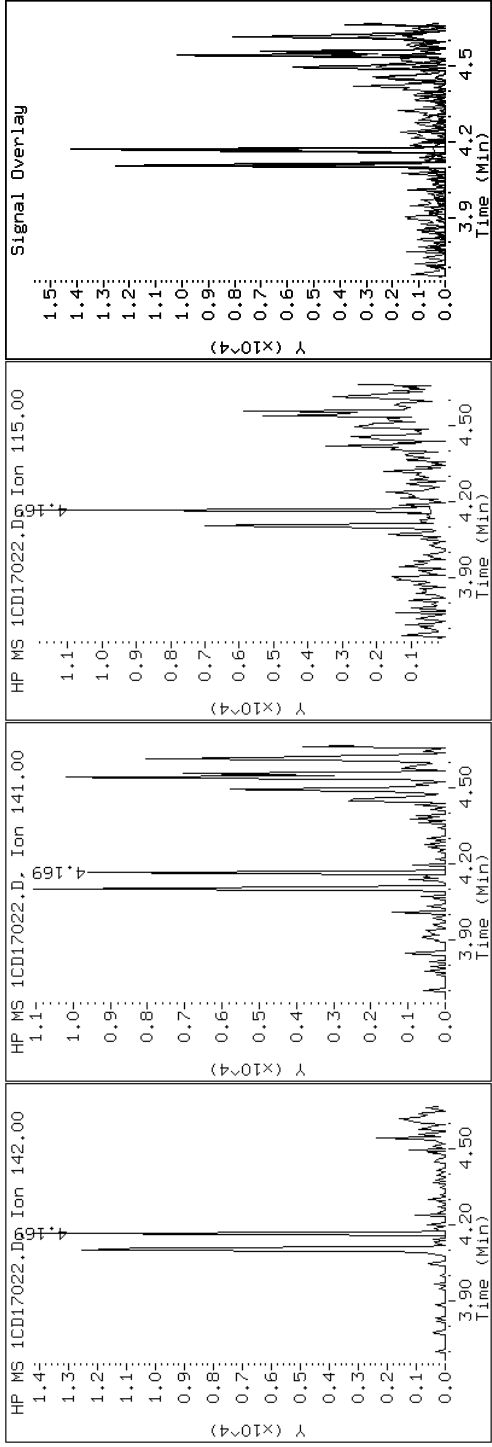
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

### 4 1-Methylnaphthalene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

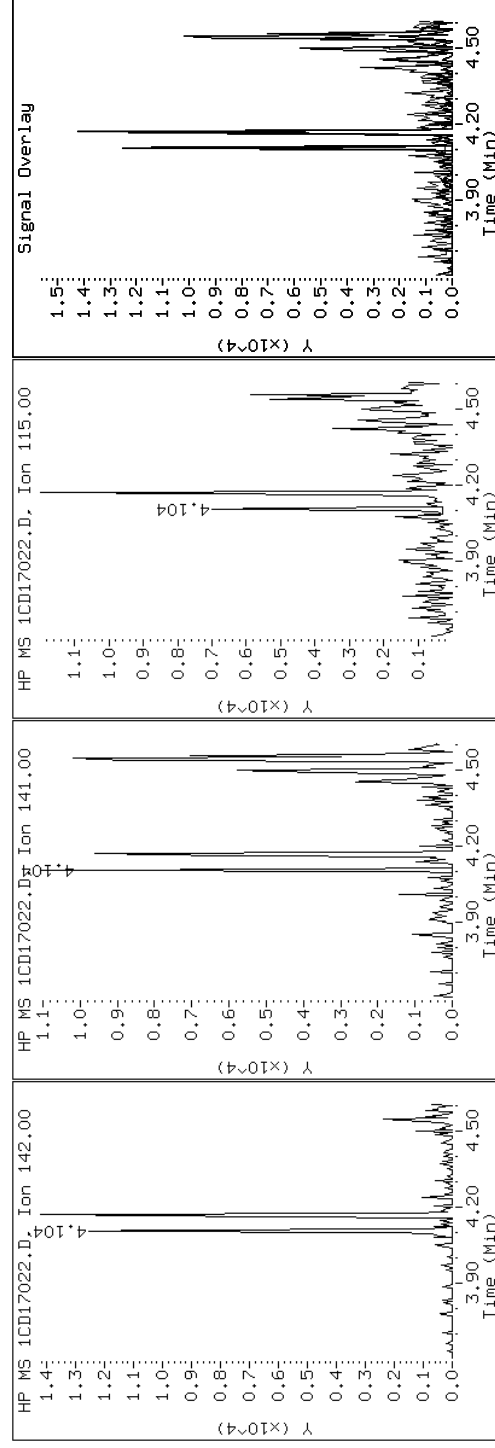
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CDI7022.D

Date: 17-APR-2013 16:06

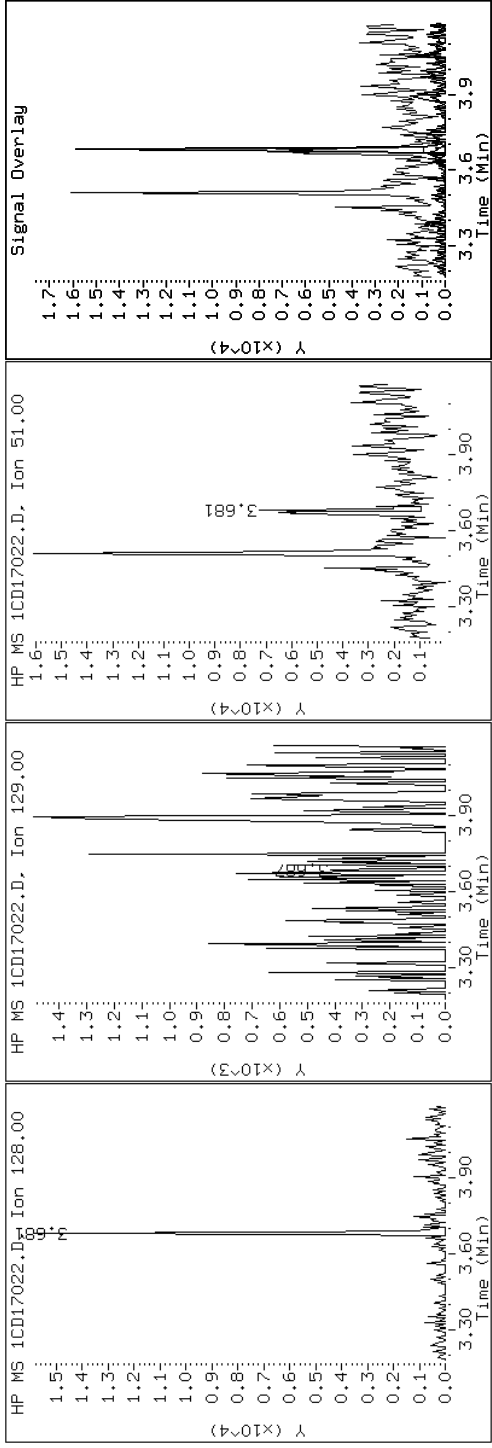
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CDI7022.D

Date: 17-APR-2013 16:06

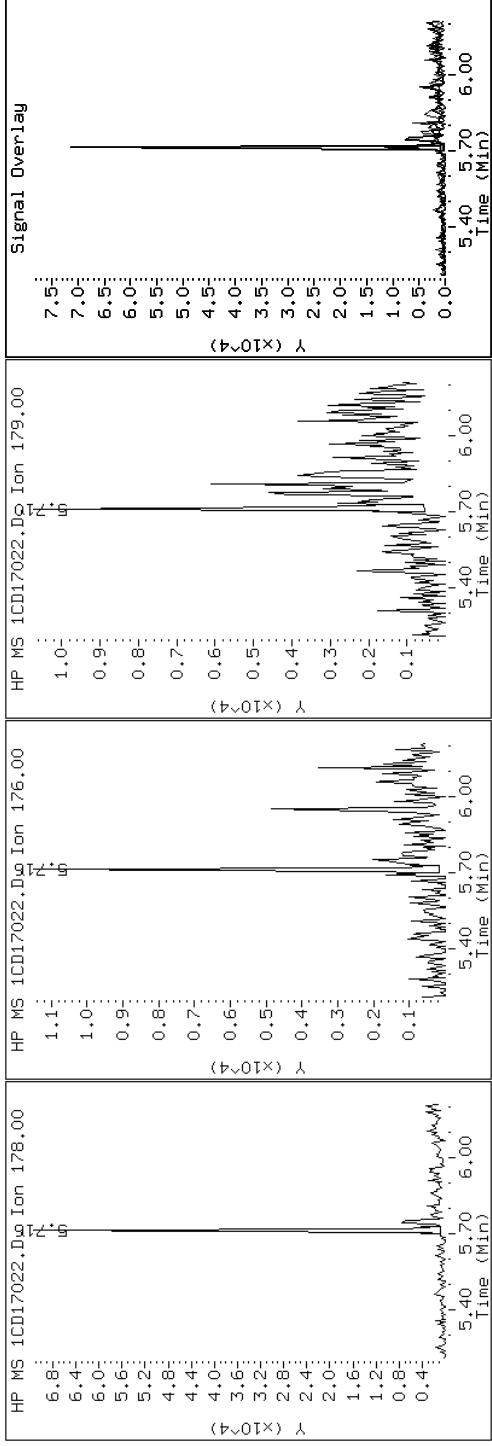
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17022.D

Date: 17-APR-2013 16:06

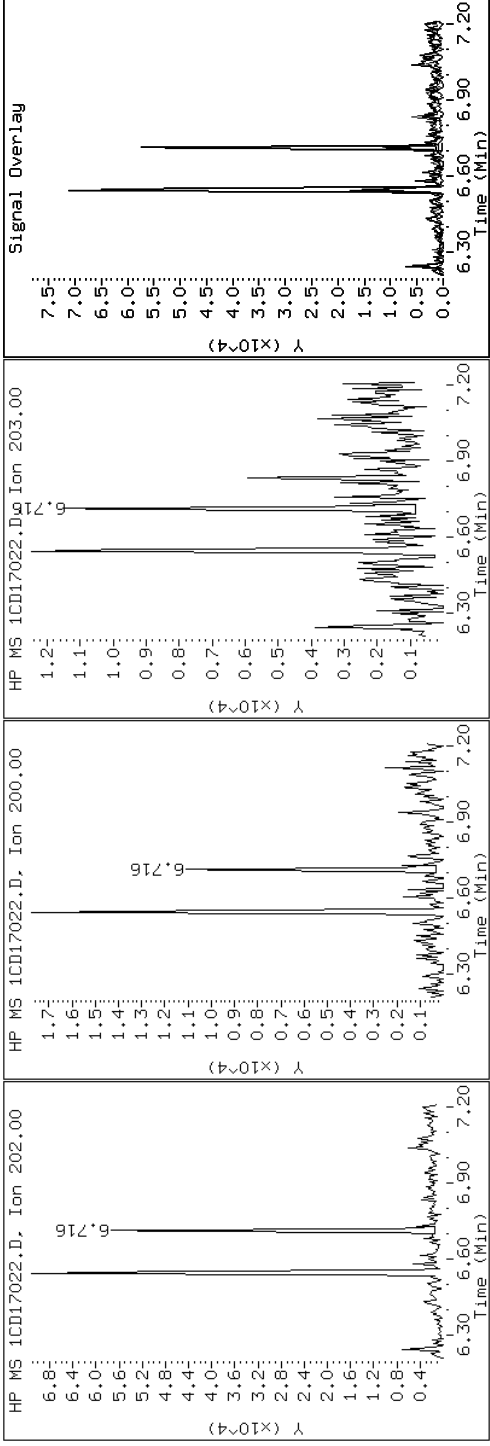
Client ID: CV0133A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-17-a

Operator: SCC

16 Pyrene



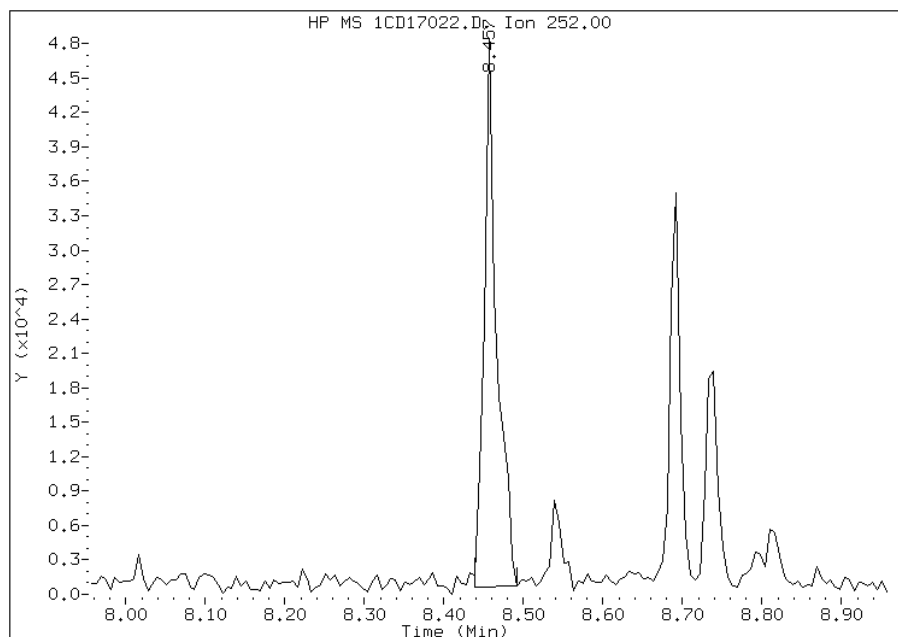


# Manual Integration Report

Data File: 1CD17022.D  
Inj. Date and Time: 17-APR-2013 16:06  
Instrument ID: BSMC5973.i  
Client ID: CV0133A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

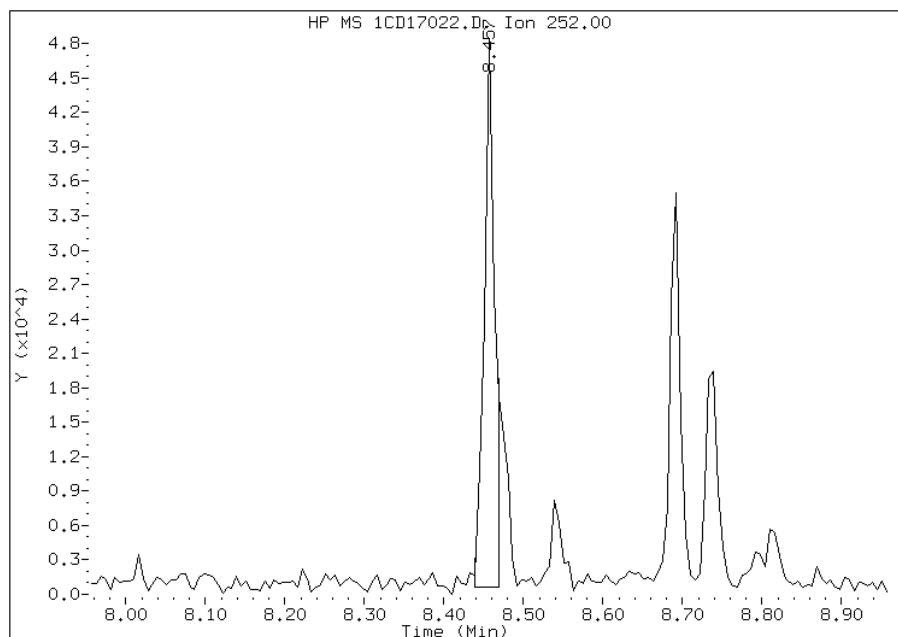
## Processing Integration Results

RT: 8.46  
Response: 52534  
Amount: 5  
Conc: 372



## Manual Integration Results

RT: 8.46  
Response: 43684  
Amount: 4  
Conc: 309



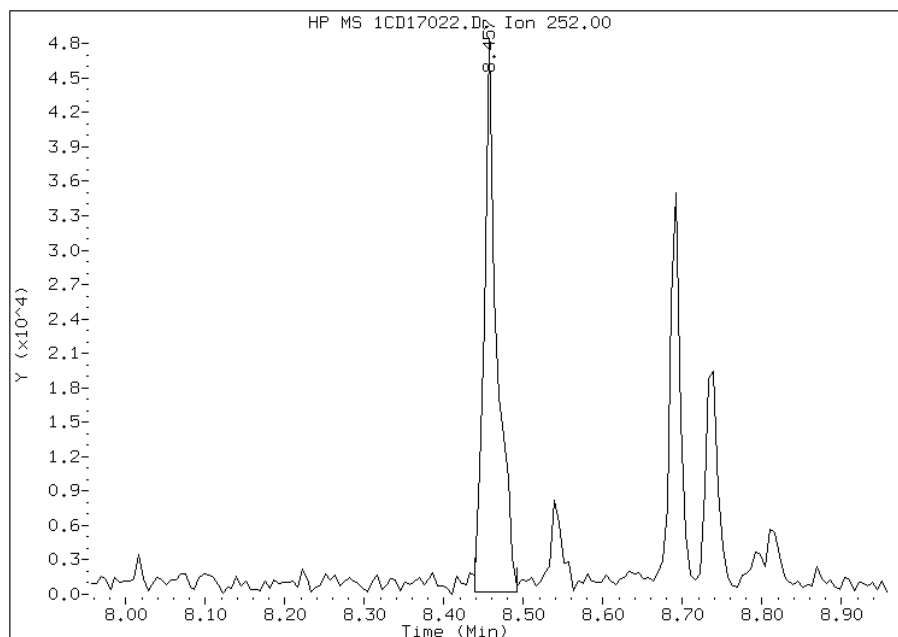
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:41  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD17022.D  
Inj. Date and Time: 17-APR-2013 16:06  
Instrument ID: BSMC5973.i  
Client ID: CV0133A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

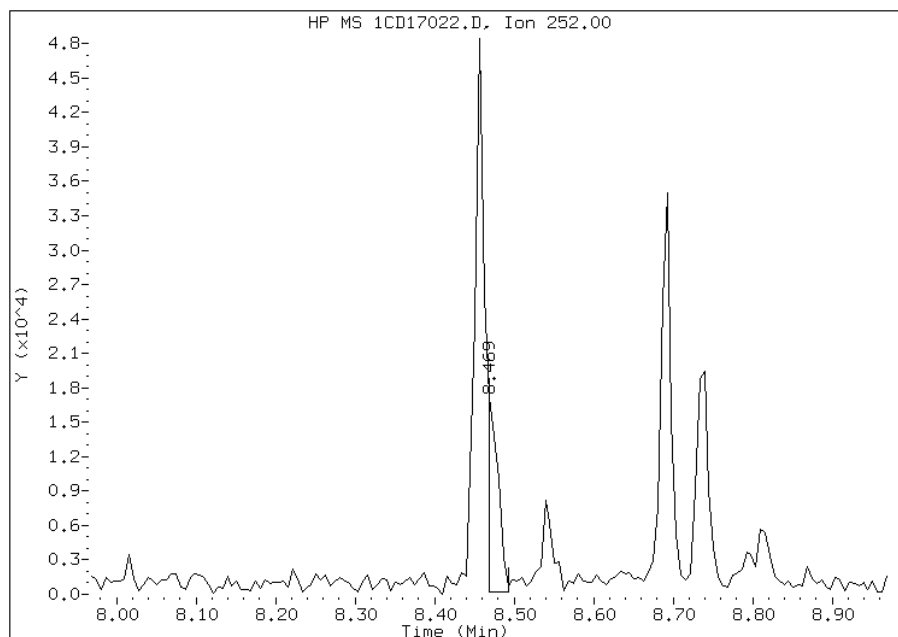
## Processing Integration Results

RT: 8.46  
Response: 54196  
Amount: 4  
Conc: 339



## Manual Integration Results

RT: 8.47  
Response: 15520  
Amount: 1  
Conc: 97



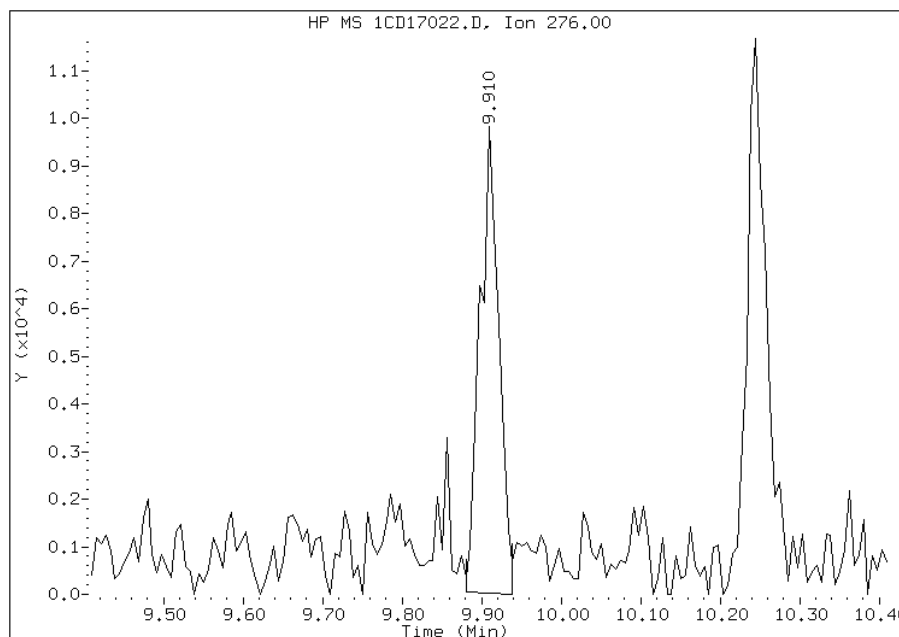
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:41  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17022.D  
Inj. Date and Time: 17-APR-2013 16:06  
Instrument ID: BSMC5973.i  
Client ID: CV0133A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

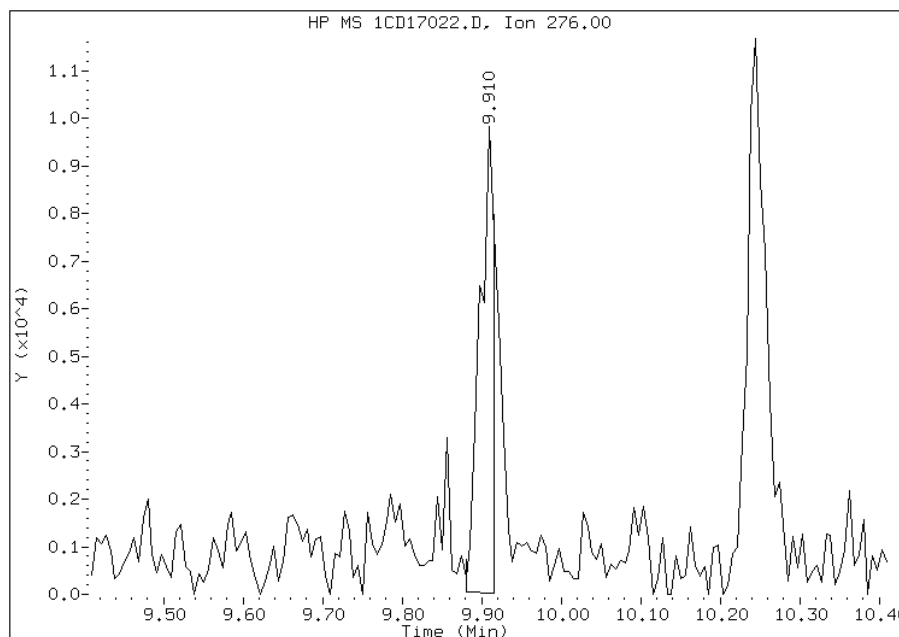
## Processing Integration Results

RT: 9.91  
Response: 16141  
Amount: 2  
Conc: 164



## Manual Integration Results

RT: 9.91  
Response: 12245  
Amount: 2  
Conc: 137



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:42  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0133B-CS-SP Lab Sample ID: 680-89275-18  
 Matrix: Solid Lab File ID: 1CD17023.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 10:05  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.03(g) Date Analyzed: 04/17/2013 16:24  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	11		10	5.1
56-55-3	Benzo[a]anthracene	60		9.7	4.7
50-32-8	Benzo[a]pyrene	46		13	6.3
205-99-2	Benzo[b]fluoranthene	84		15	7.4
191-24-2	Benzo[g,h,i]perylene	56		24	5.3
207-08-9	Benzo[k]fluoranthene	44		9.7	4.3
218-01-9	Chrysene	54		11	5.4
53-70-3	Dibenz(a,h)anthracene	24	U	24	4.9
206-44-0	Fluoranthene	66		24	4.8
86-73-7	Fluorene	5.2	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	77		24	8.6
90-12-0	1-Methylnaphthalene	25	J	48	5.3
91-57-6	2-Methylnaphthalene	48		48	8.6
91-20-3	Naphthalene	32	J	48	5.3
85-01-8	Phenanthrene	58		9.7	4.7
129-00-0	Pyrene	56		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17023.D  
 Lab Smp Id: 680-89275-A-18-A Client Smp ID: CV0133B-CS-SP  
 Inj Date : 17-APR-2013 16:24  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-18-a  
 Misc Info : 680-89275-A-18-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins 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	17.266	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.669	3.663	(1.000)	356786	40.0000		
* 6 Acenaphthene-d10	164		4.757	4.751	(1.000)	242571	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	437595	40.0000		
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	43469	6.68837	537.8709	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	476965	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	446686	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	3889	0.40324	32.4277(Q)	
3 2-Methylnaphthalene	142		4.110	4.104	(1.120)	2069	0.59348	47.7271	
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	1931	0.31345	25.2070	
9 Fluorene	166		5.104	5.092	(1.073)	505	0.06406	5.1519(Q)	
11 Phenanthrene	178		5.715	5.709	(1.003)	9149	0.71919	57.8360	
12 Anthracene	178		5.751	5.745	(1.009)	1704	0.13413	10.7867(Q)	
13 Carbazole	167		5.857	5.851	(1.028)	1367	0.11554	9.2913(Q)	
15 Fluoranthene	202		6.545	6.545	(1.149)	11693	0.82370	66.2411	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.715	6.709	(0.880)	9455	0.69680	56.0359
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	10112	0.74972	60.2919
19 Chrysene	228	7.651	7.651	(1.002)	8935	0.66966	53.8531
20 Benzo(b)fluoranthene	252	8.451	8.450	(0.961)	11839	1.04936	84.3880(M)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.963)	6937	0.54338	43.6980(MH)
22 Benzo(a)pyrene	252	8.733	8.733	(0.993)	6693	0.57391	46.1528
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903	(1.127)	3756	0.96359	77.4911(M)
26 Benzo(g,h,i)perylene	276	10.245	10.233	(1.165)	7555	0.69115	55.5817(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: 1CD17023.D

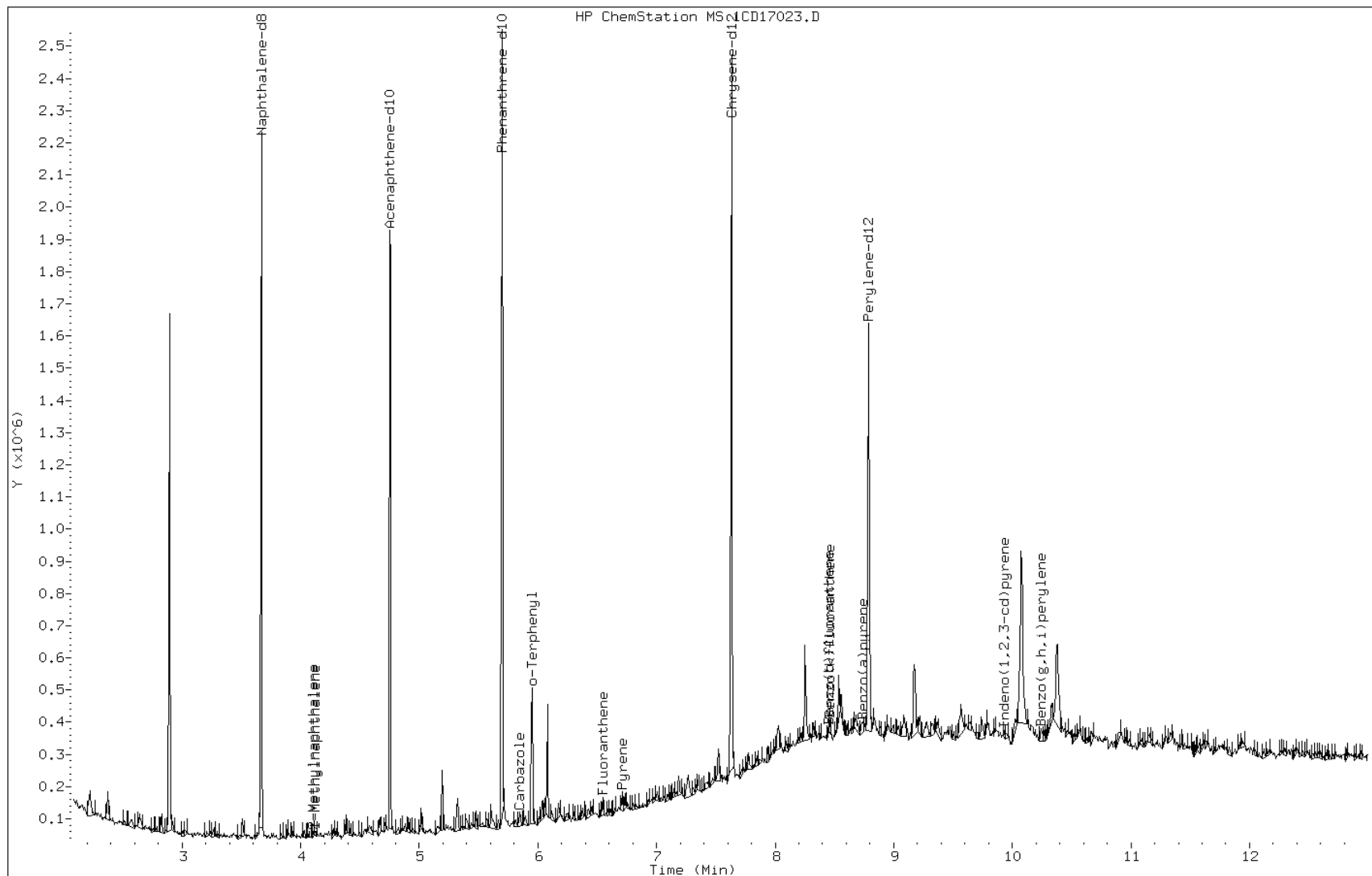
Date: 17-APR-2013 16:24

Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

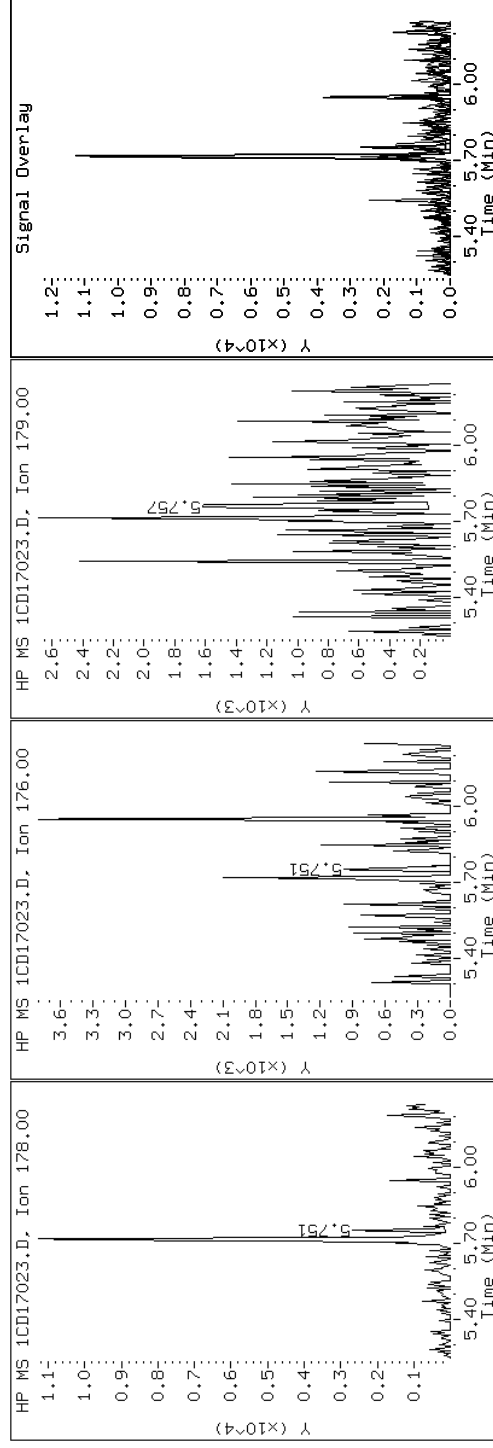
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

12 Anthracene





Data File: 1CD17023.D

Date: 17-APR-2013 16:24

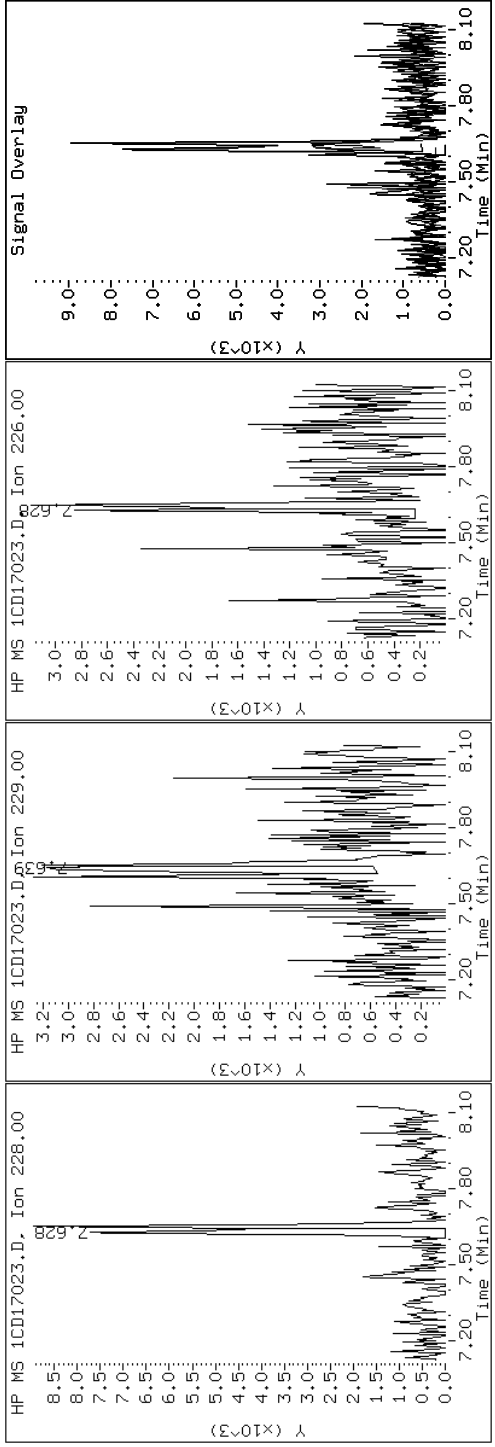
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

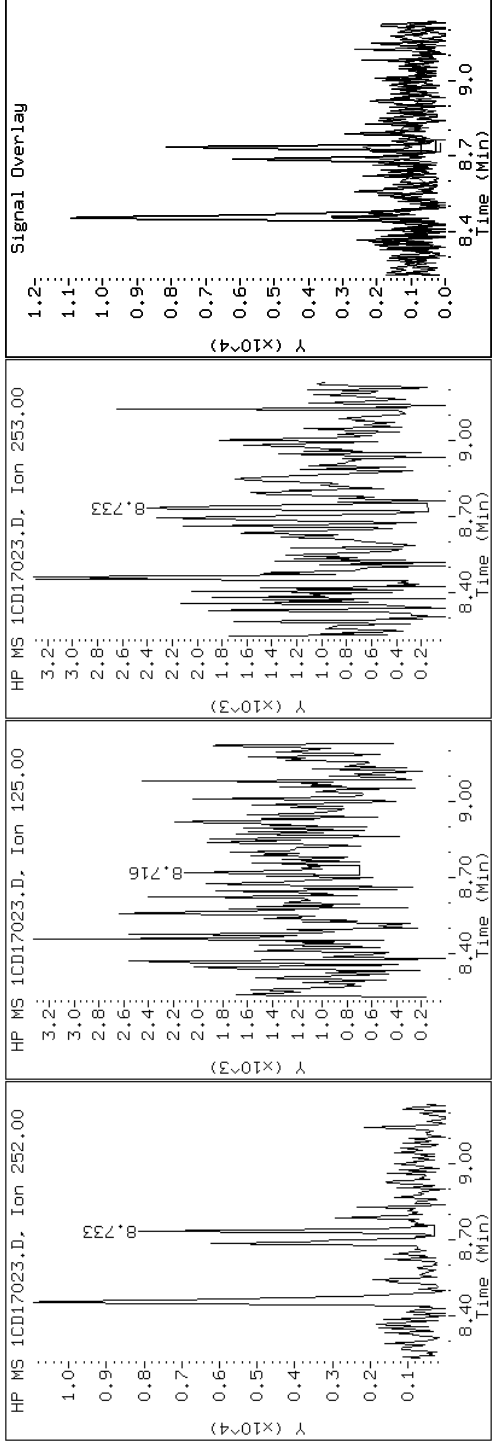
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

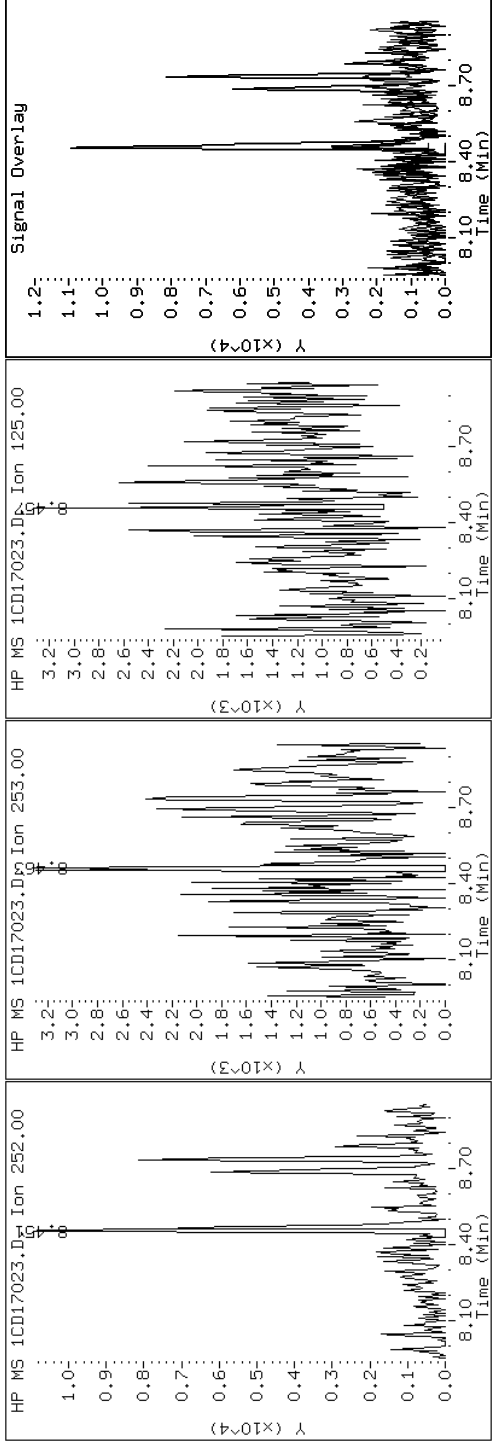
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

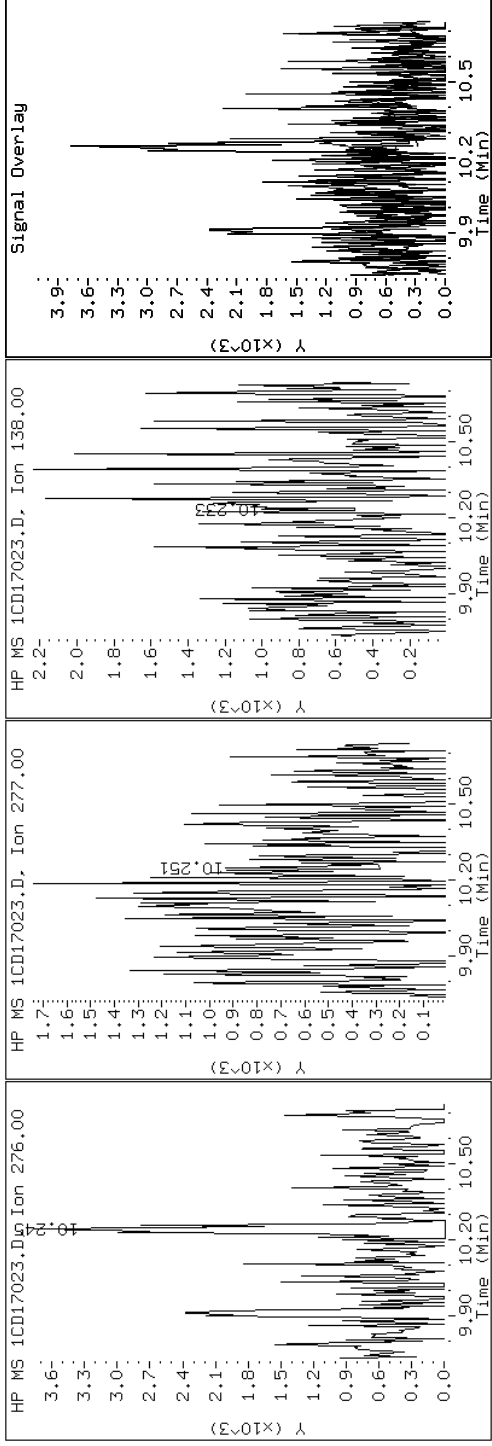
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

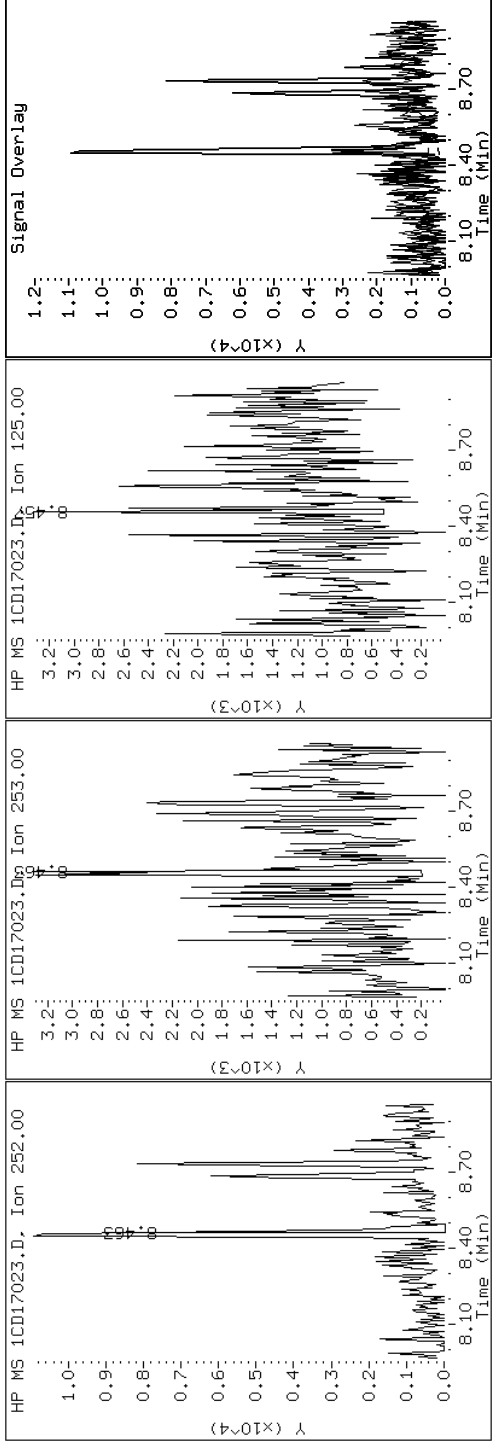
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

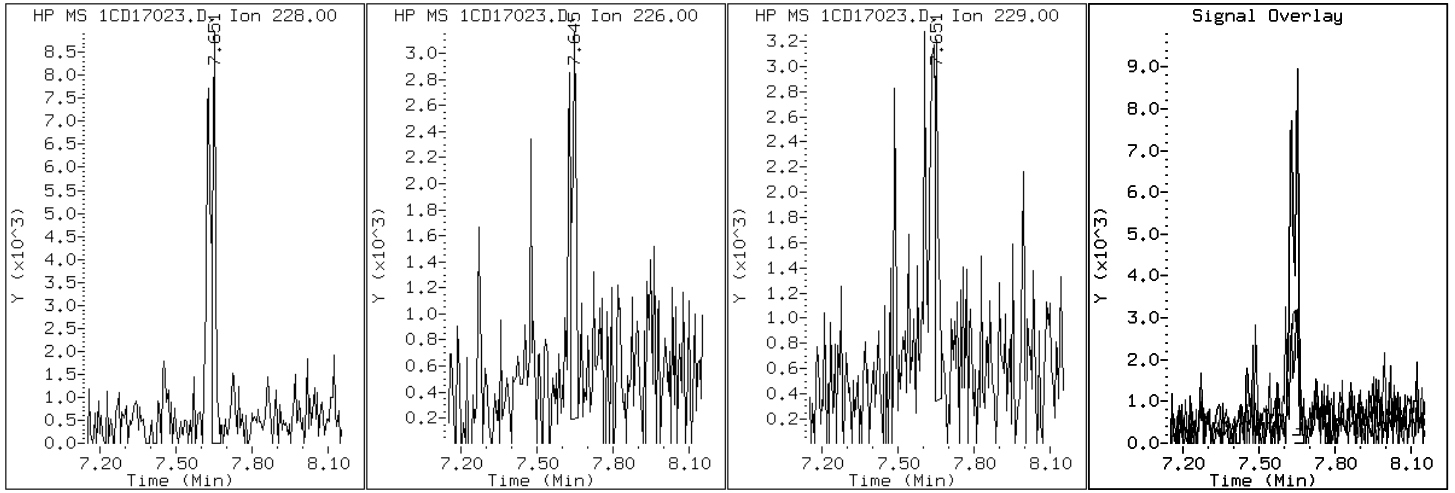
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

19 Chrysene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

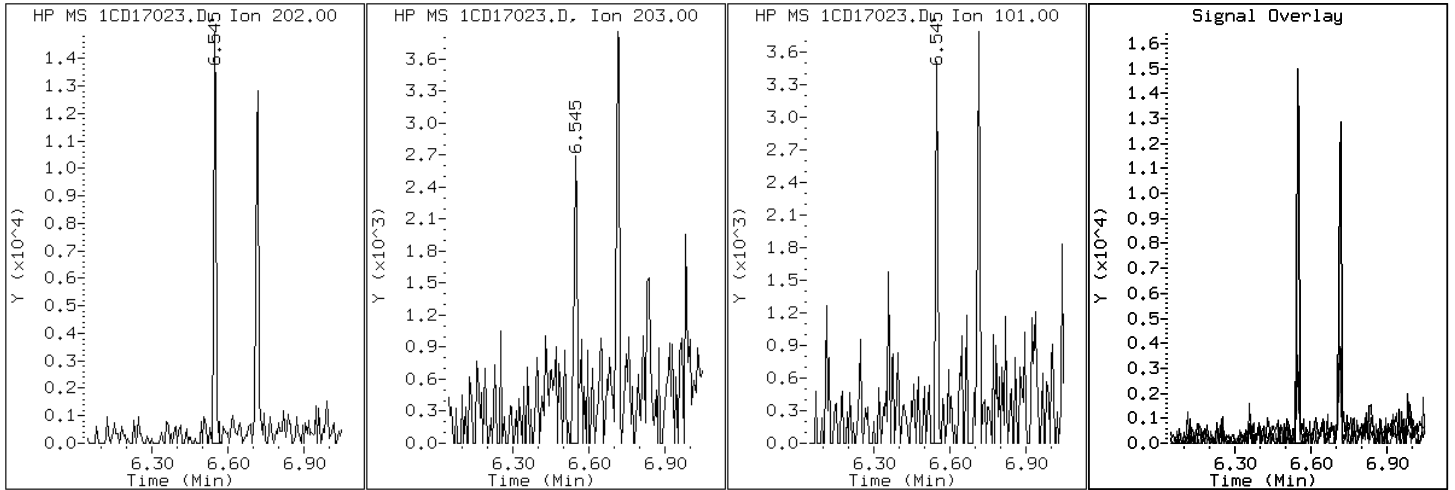
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

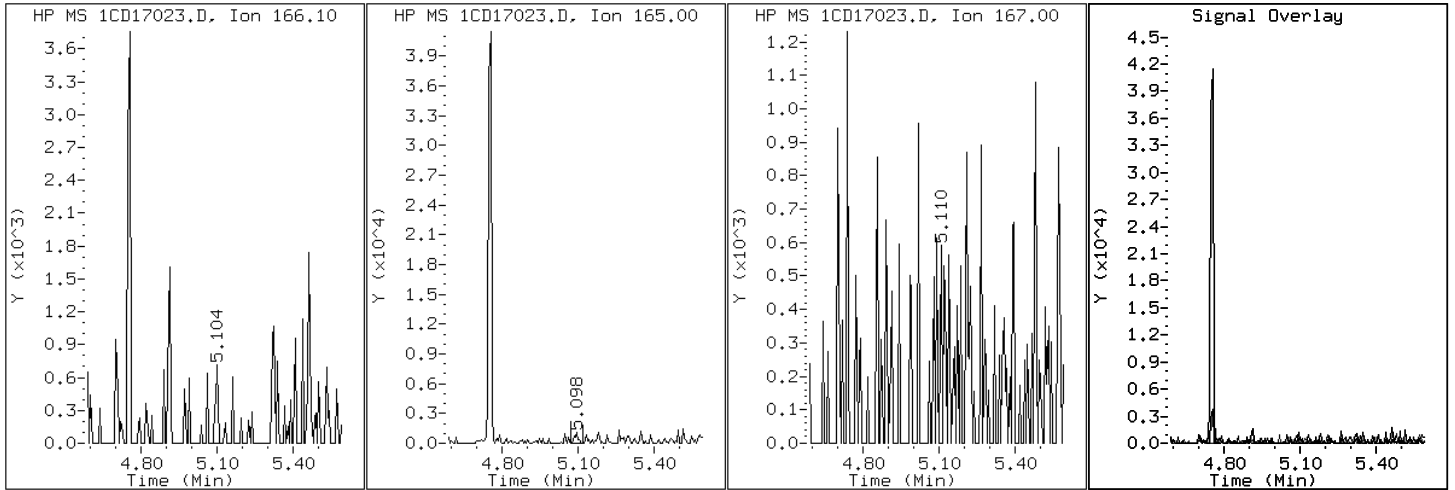
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

9 Fluorene





Data File: 1CD17023.D

Date: 17-APR-2013 16:24

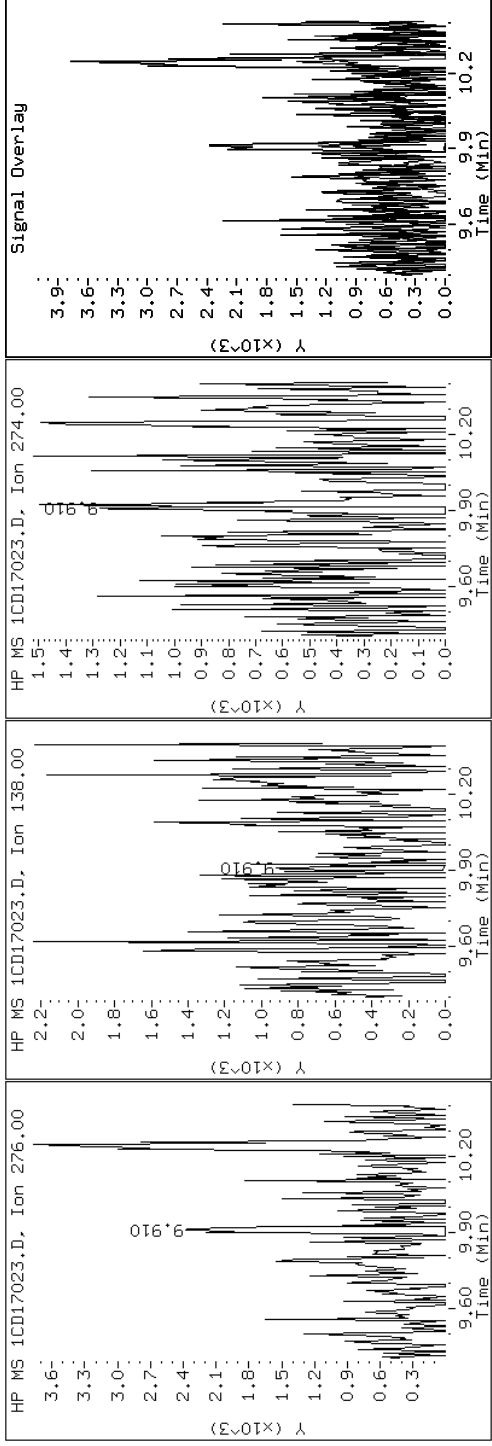
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

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



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

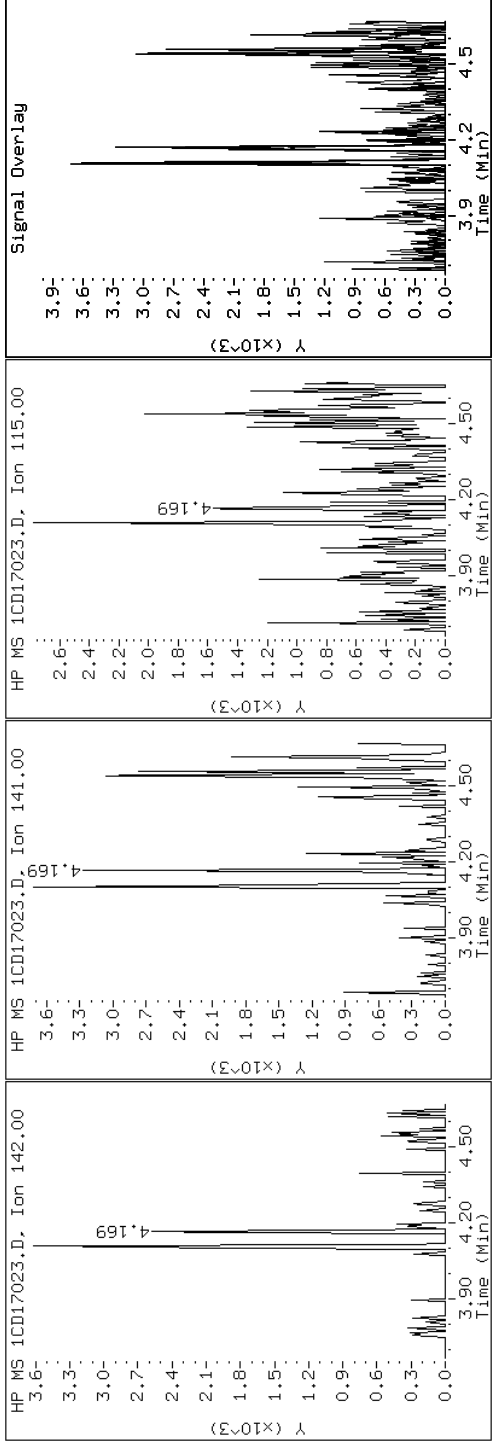
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

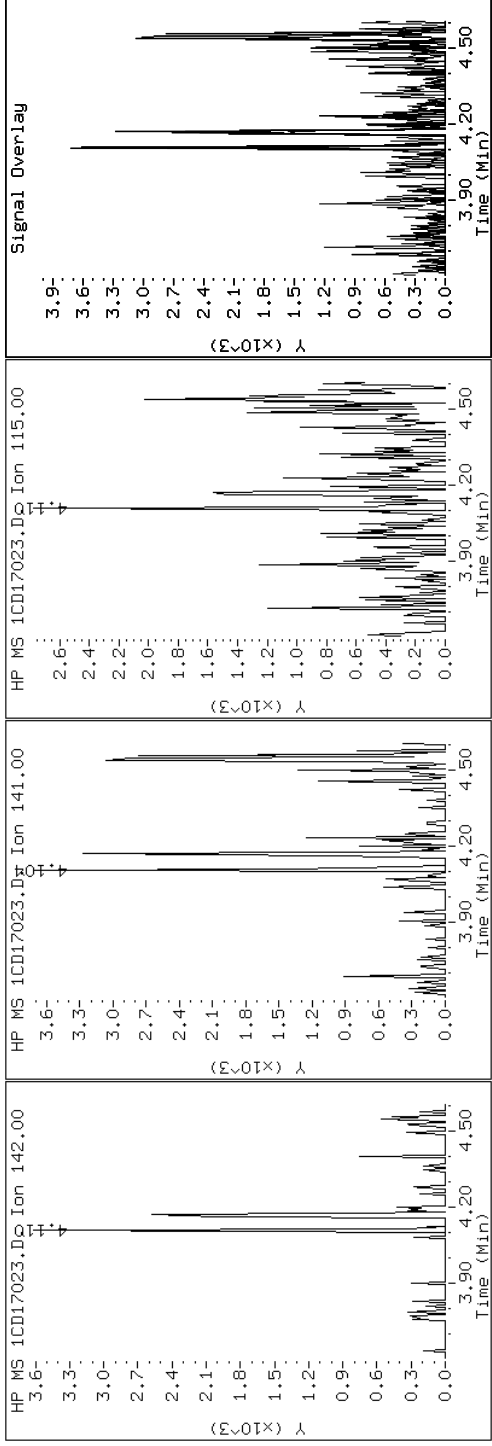
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

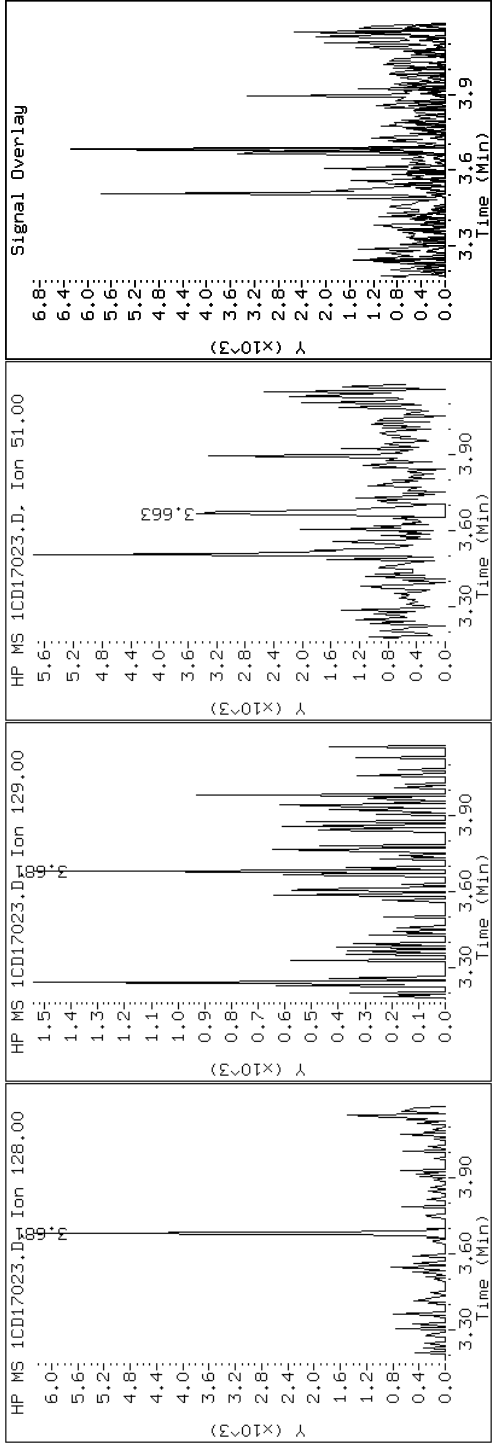
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

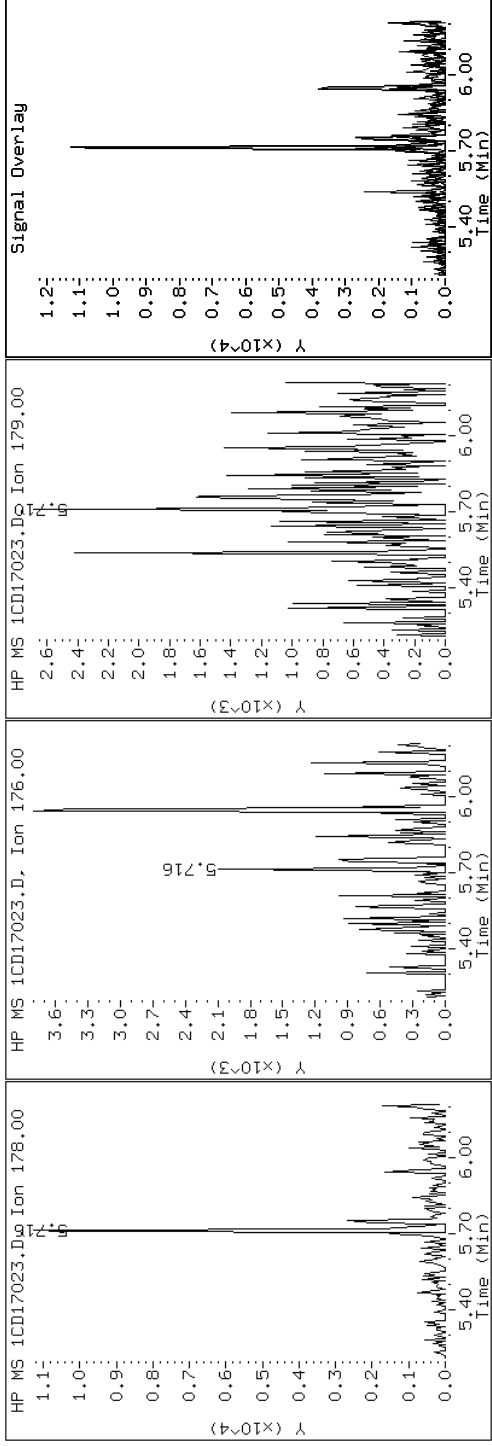
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17023.D

Date: 17-APR-2013 16:24

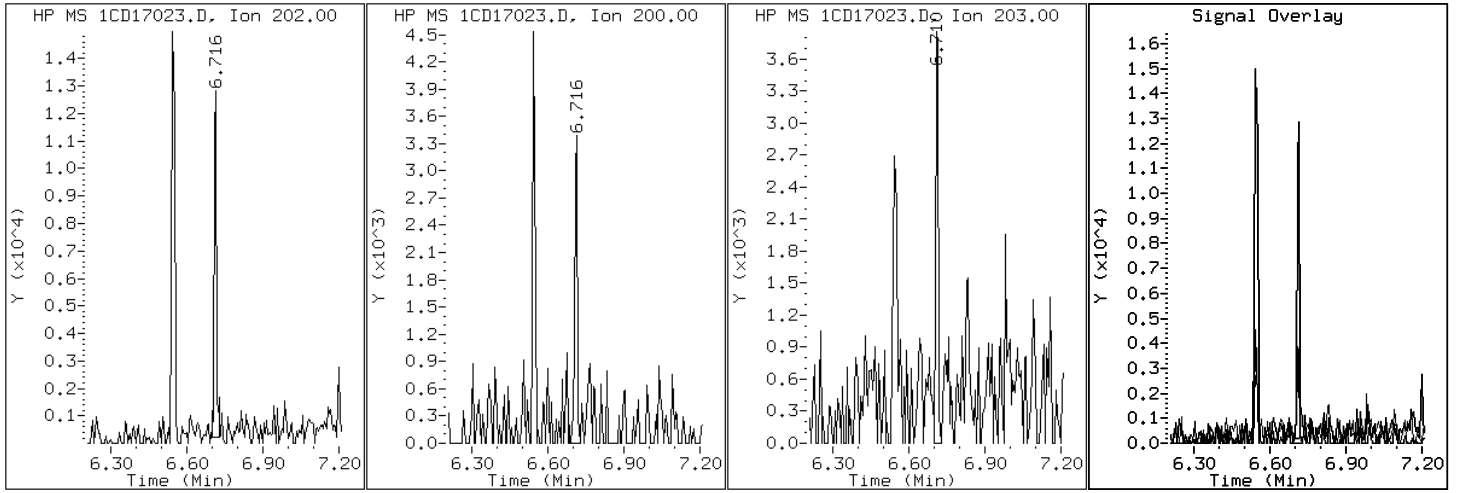
Client ID: CV0133B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-18-a

Operator: SCC

16 Pyrene

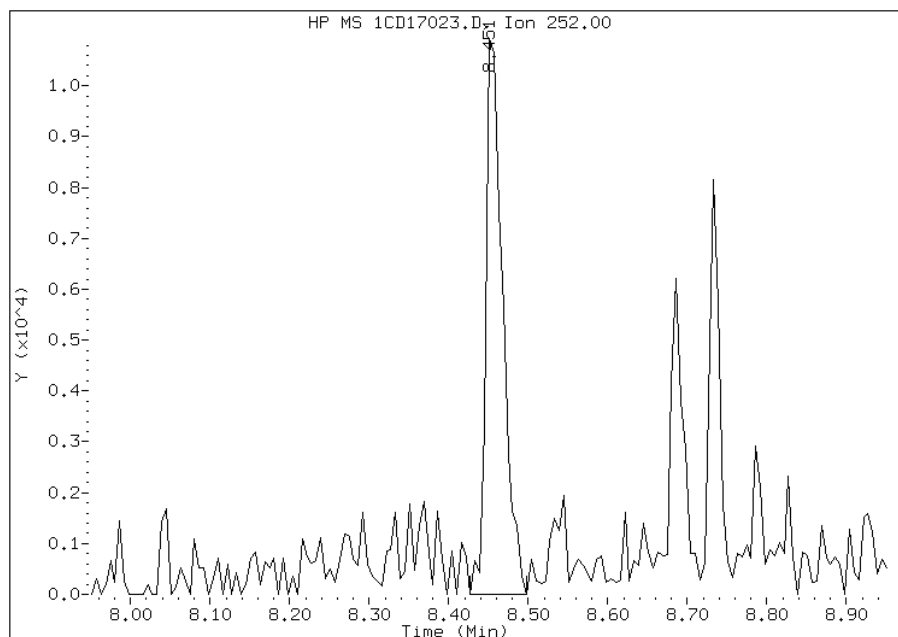


# Manual Integration Report

Data File: 1CD17023.D  
Inj. Date and Time: 17-APR-2013 16:24  
Instrument ID: BSMC5973.i  
Client ID: CV0133B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

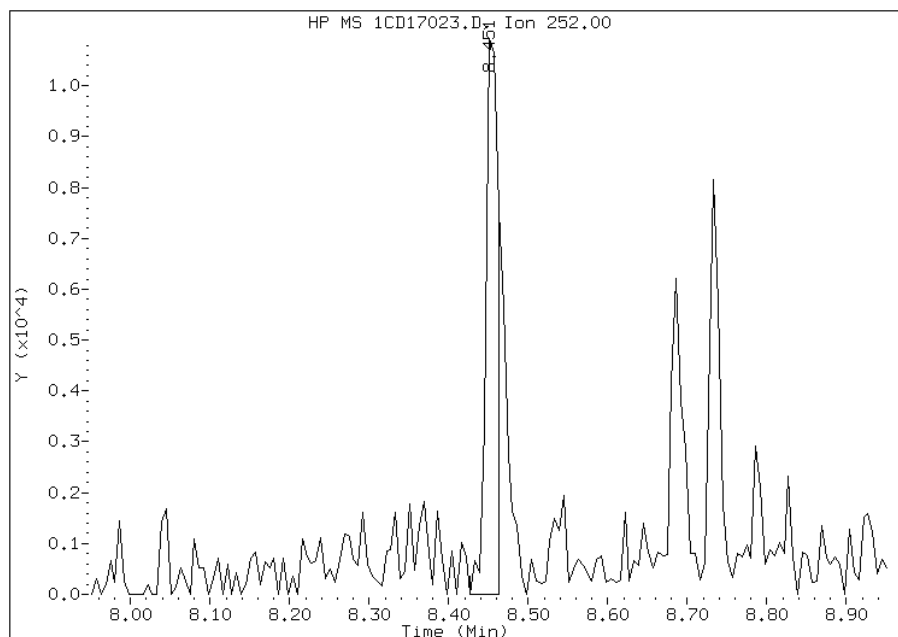
## Processing Integration Results

RT: 8.45  
Response: 15993  
Amount: 1  
Conc: 114



## Manual Integration Results

RT: 8.45  
Response: 11839  
Amount: 1  
Conc: 84



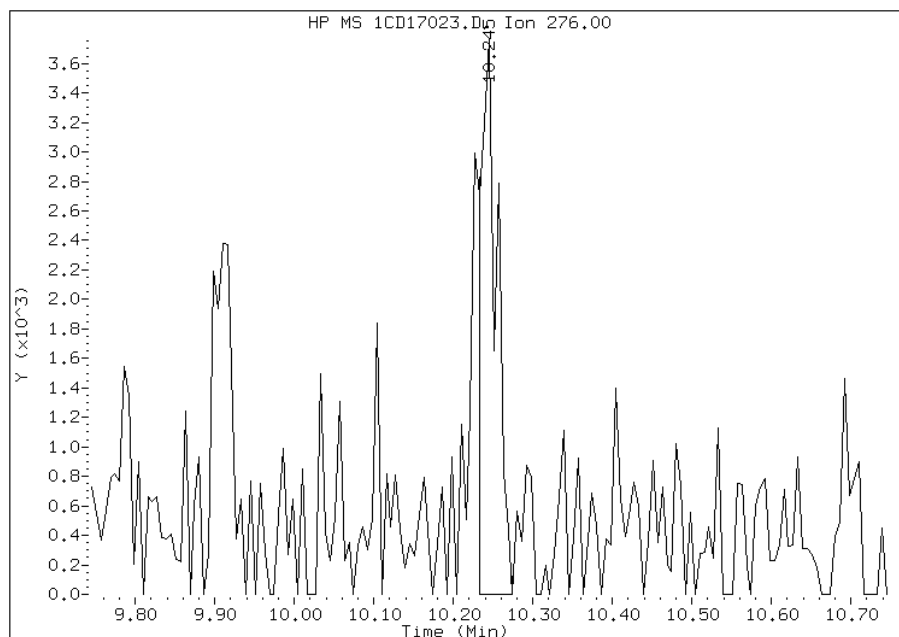
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:43  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD17023.D  
Inj. Date and Time: 17-APR-2013 16:24  
Instrument ID: BSMC5973.i  
Client ID: CV0133B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/18/2013

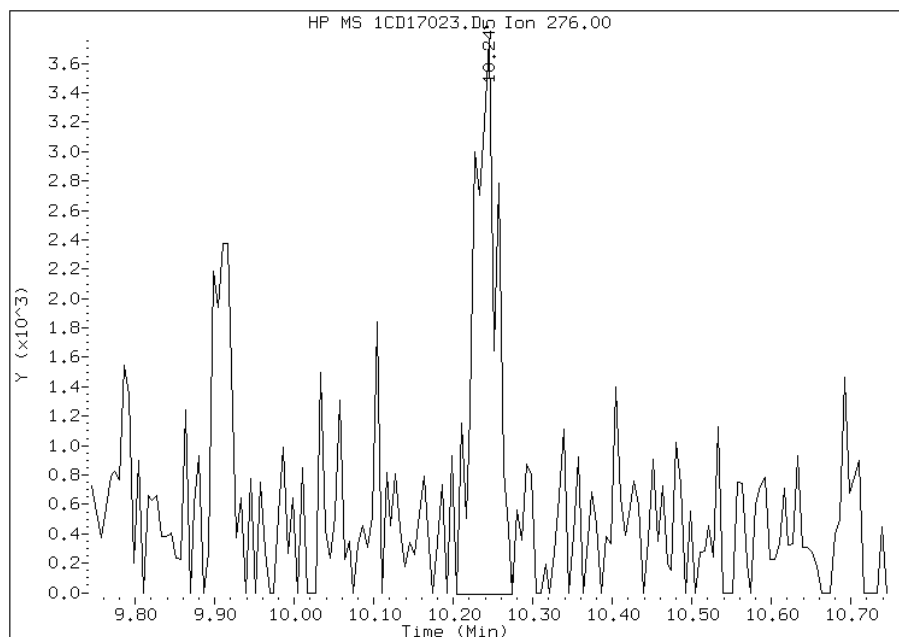
## Processing Integration Results

RT: 10.25  
Response: 5426  
Amount: 0  
Conc: 40



## Manual Integration Results

RT: 10.25  
Response: 7555  
Amount: 1  
Conc: 56



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:44  
Manual Integration Reason: Baseline Event

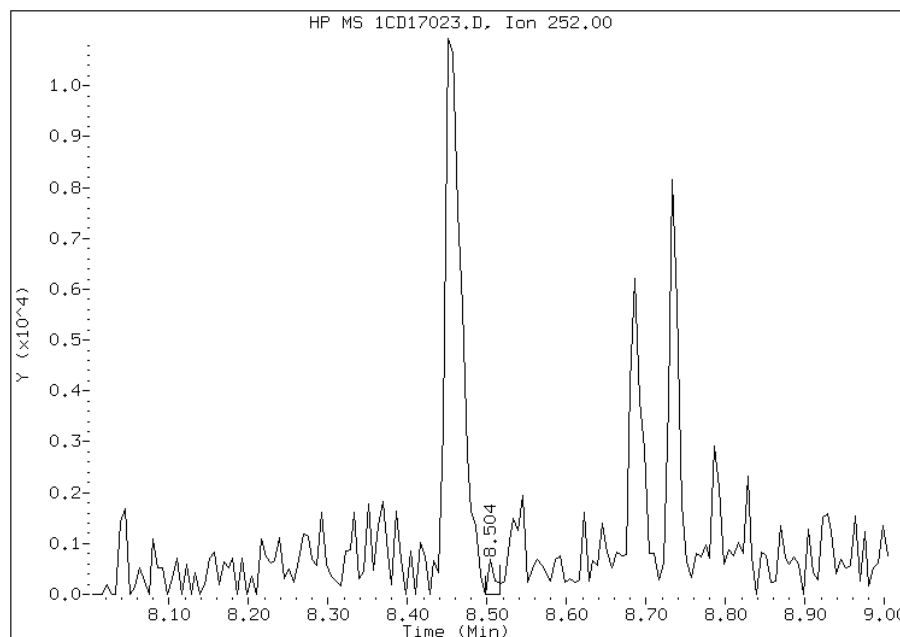


# Manual Integration Report

Data File: 1CD17023.D  
Inj. Date and Time: 17-APR-2013 16:24  
Instrument ID: BSMC5973.i  
Client ID: CV0133B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

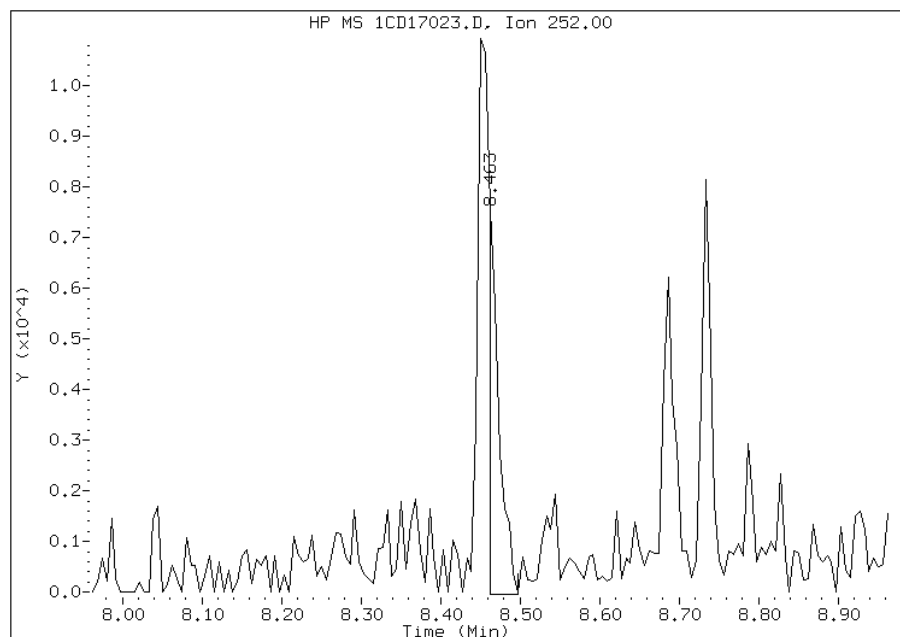
## Processing Integration Results

RT: 8.50  
Response: 408  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 8.46  
Response: 6937  
Amount: 1  
Conc: 44



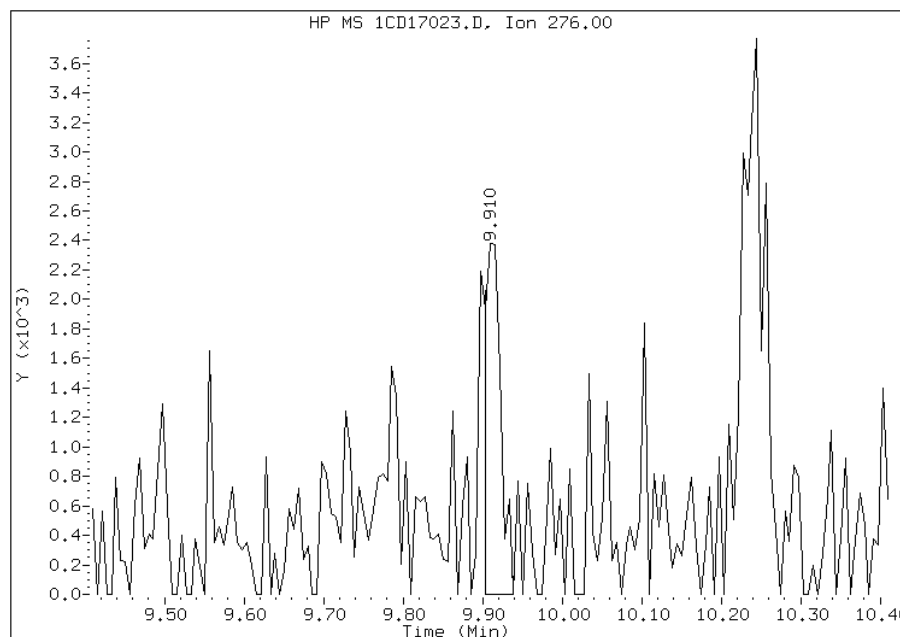
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:43  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17023.D  
Inj. Date and Time: 17-APR-2013 16:24  
Instrument ID: BSMC5973.i  
Client ID: CV0133B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

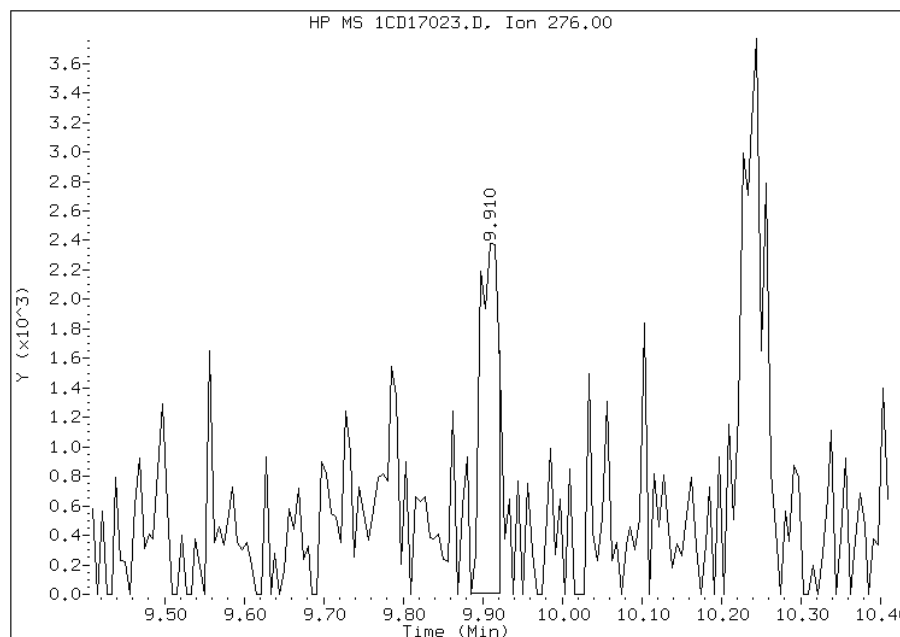
## Processing Integration Results

RT: 9.91  
Response: 3258  
Amount: 1  
Conc: 74



## Manual Integration Results

RT: 9.91  
Response: 3756  
Amount: 1  
Conc: 77



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:45  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0318A-CS-SP Lab Sample ID: 680-89275-19  
 Matrix: Solid Lab File ID: 1CD17024.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 14:35  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.30 (g) Date Analyzed: 04/17/2013 16:43  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 31.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	57	U	57	7.2
120-12-7	Anthracene	12	U	12	6.0
56-55-3	Benzo[a]anthracene	57		11	5.6
50-32-8	Benzo[a]pyrene	49		15	7.4
205-99-2	Benzo[b]fluoranthene	78		17	8.7
191-24-2	Benzo[g,h,i]perylene	45		29	6.3
207-08-9	Benzo[k]fluoranthene	31		11	5.2
218-01-9	Chrysene	56		13	6.4
53-70-3	Dibenz(a,h)anthracene	29	U	29	5.9
206-44-0	Fluoranthene	48		29	5.7
86-73-7	Fluorene	13	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	110		29	10
90-12-0	1-Methylnaphthalene	26	J	57	6.3
91-57-6	2-Methylnaphthalene	54	J	57	10
91-20-3	Naphthalene	33	J	57	6.3
85-01-8	Phenanthrene	68		11	5.6
129-00-0	Pyrene	43		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17024.D  
 Lab Smp Id: 680-89275-A-19-A Client Smp ID: CV0318A-CS-SP  
 Inj Date : 17-APR-2013 16:43  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-19-a  
 Misc Info : 680-89275-A-19-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins 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	15.300	Weight Extracted
M	31.486	% 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	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.669	3.663	(1.000)	312014	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	214909	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	397672	40.0000		
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	21983	4.02786	384.2384	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	440793	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	433595	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	2937	0.34822	33.2189	
3 2-Methylnaphthalene	142		4.104	4.104	(1.119)	1666	0.56807	54.1907	
4 1-Methylnaphthalene	142		4.169	4.168	(1.136)	1469	0.27267	26.0114	
9 Fluorene	166		5.098	5.092	(1.073)	926	0.13259	12.6486(Q)	
11 Phenanthrene	178		5.710	5.709	(1.002)	8268	0.71522	68.2289	
15 Fluoranthene	202		6.545	6.545	(1.149)	6545	0.50734	48.3980	
16 Pyrene	202		6.715	6.709	(0.880)	5638	0.44960	42.8894	
17 Benzo(a)anthracene	228		7.627	7.621	(0.999)	7415	0.59488	56.7484	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
19 Chrysene	228		7.651	7.651	(1.002)	7260	0.58877	56.1659
20 Benzo(b)fluoranthene	252		8.457	8.450	(0.962)	8987	0.82062	78.2830
21 Benzo(k)fluoranthene	252		8.474	8.468	(0.964)	4061	0.32771	31.2615(M)
22 Benzo(a)pyrene	252		8.733	8.733	(0.993)	5793	0.51173	48.8166
24 Indeno(1,2,3-cd)pyrene	276		9.904	9.903	(1.126)	5747	1.15041	109.7437(M)
26 Benzo(g,h,i)perylene	276		10.245	10.233	(1.165)	4991	0.47038	44.8716(M)

QC Flag Legend

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

Data File: 1CD17024.D

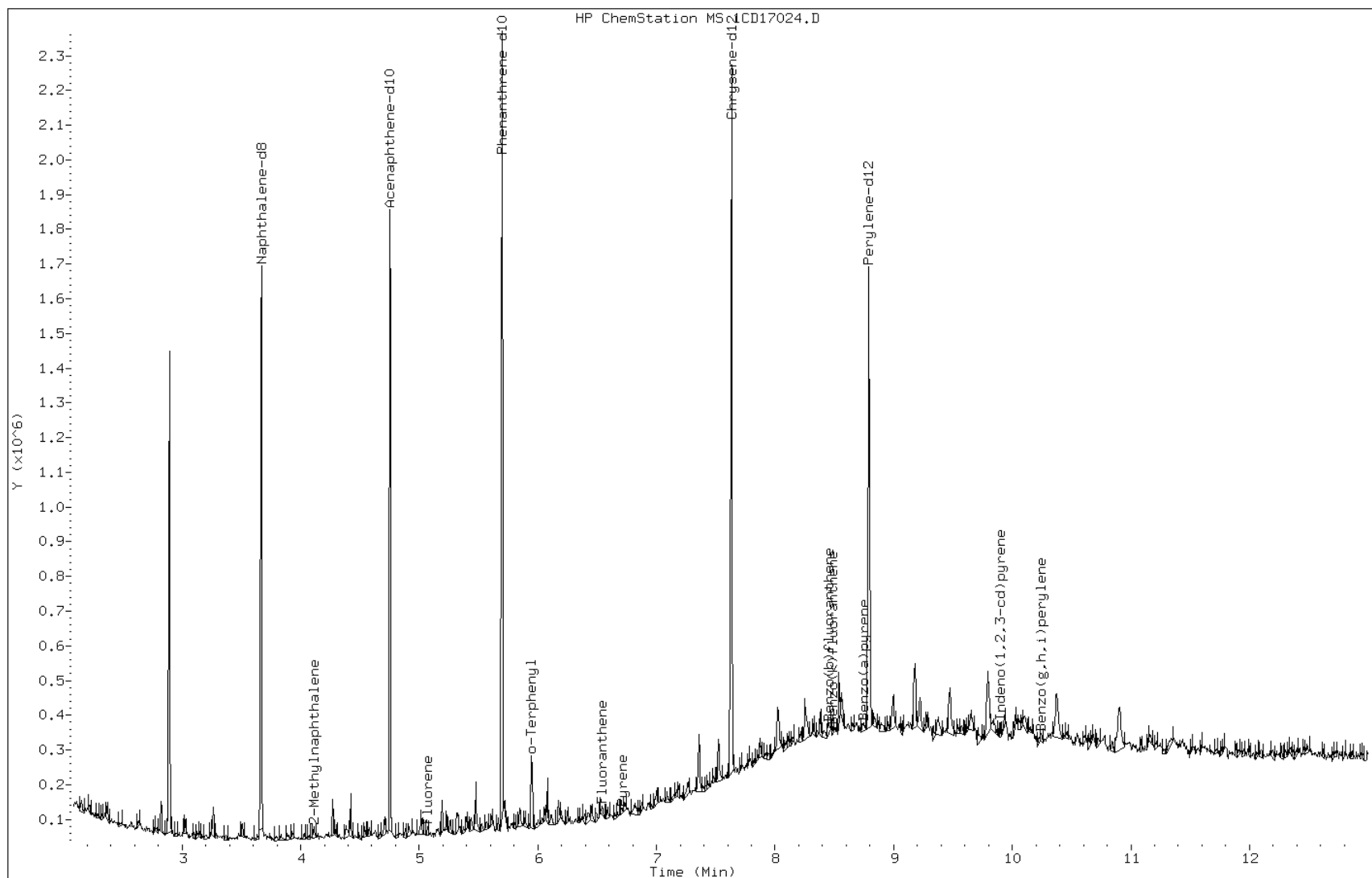
Date: 17-APR-2013 16:43

Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

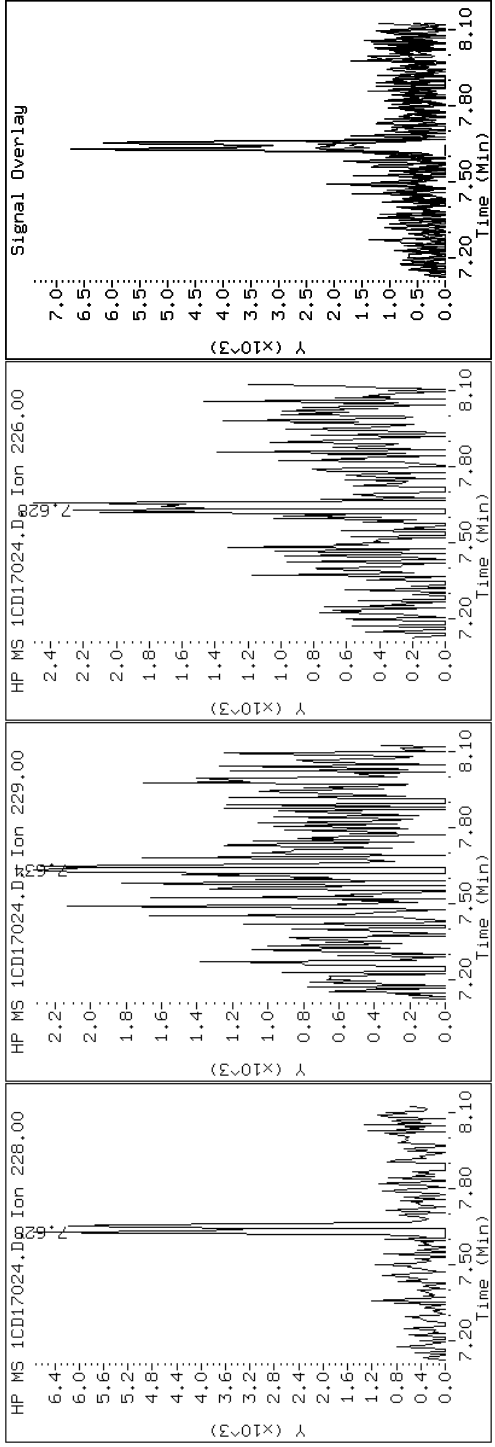
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

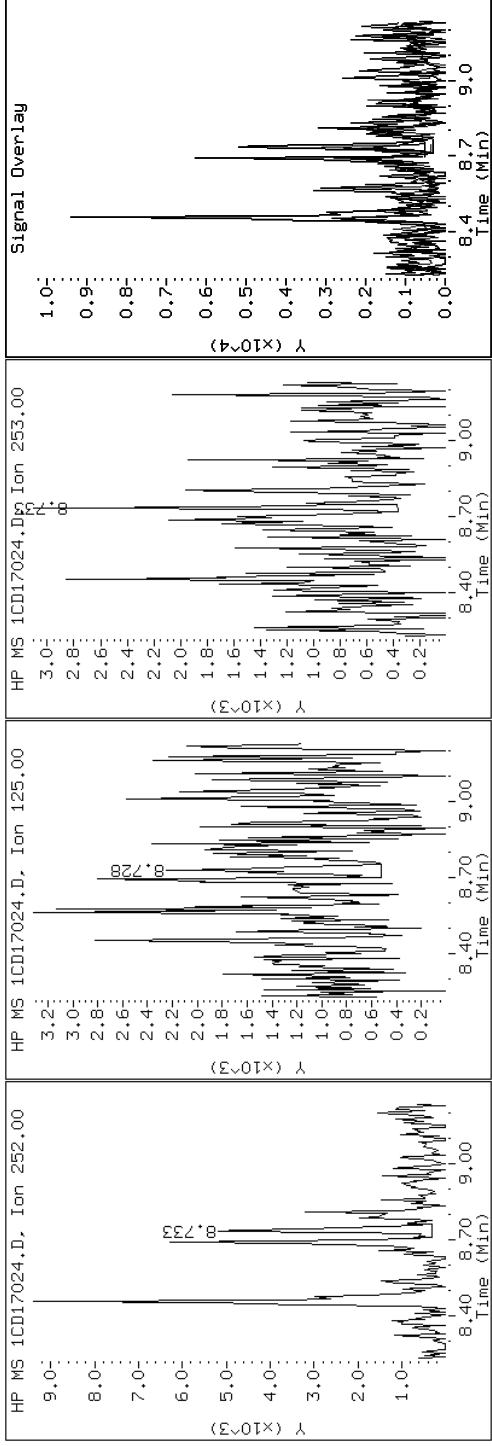
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD17024.D

Date: 17-APR-2013 16:43

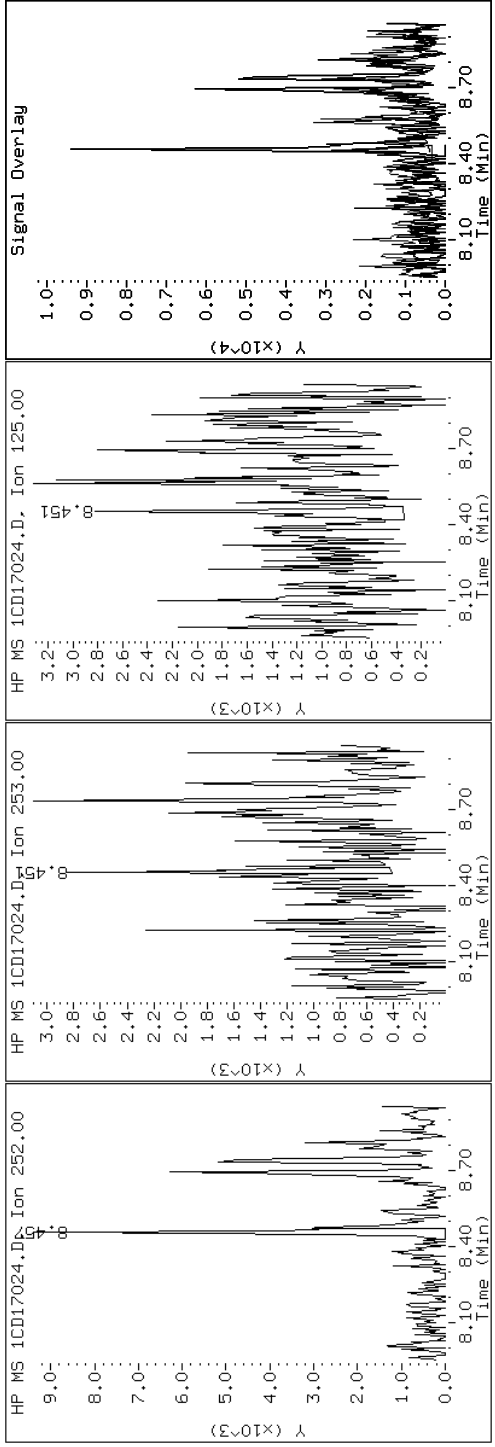
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

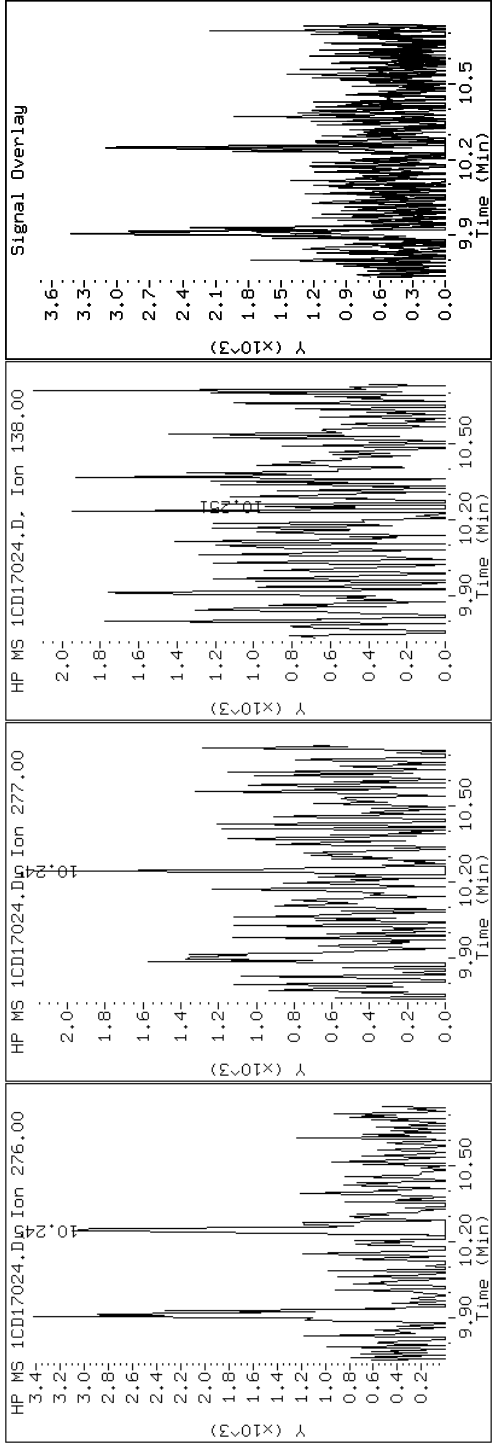
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

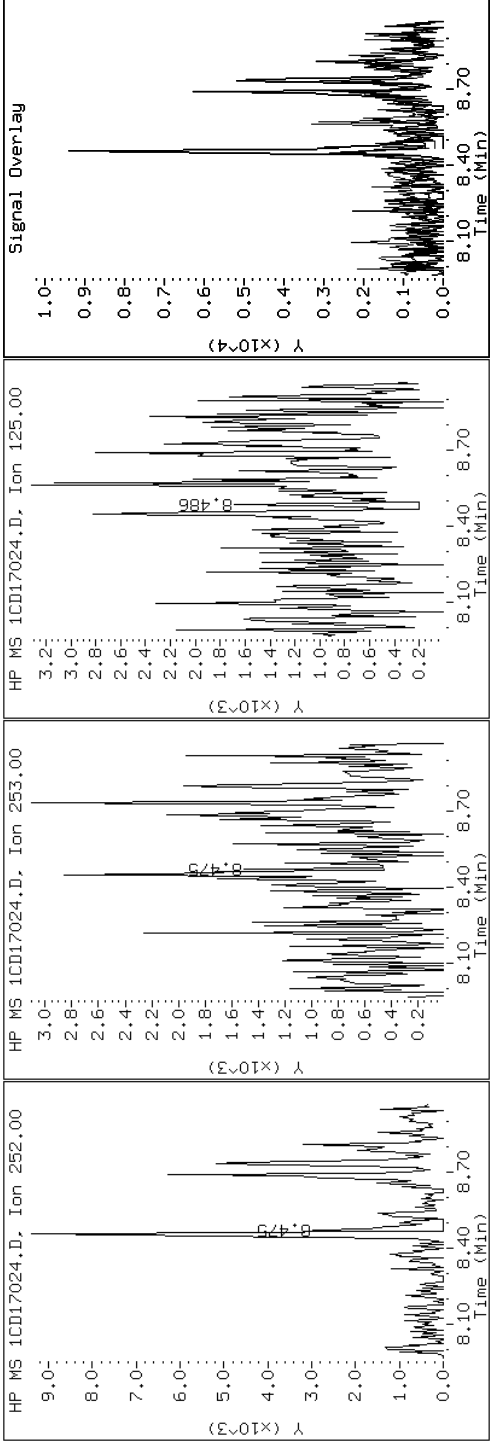
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

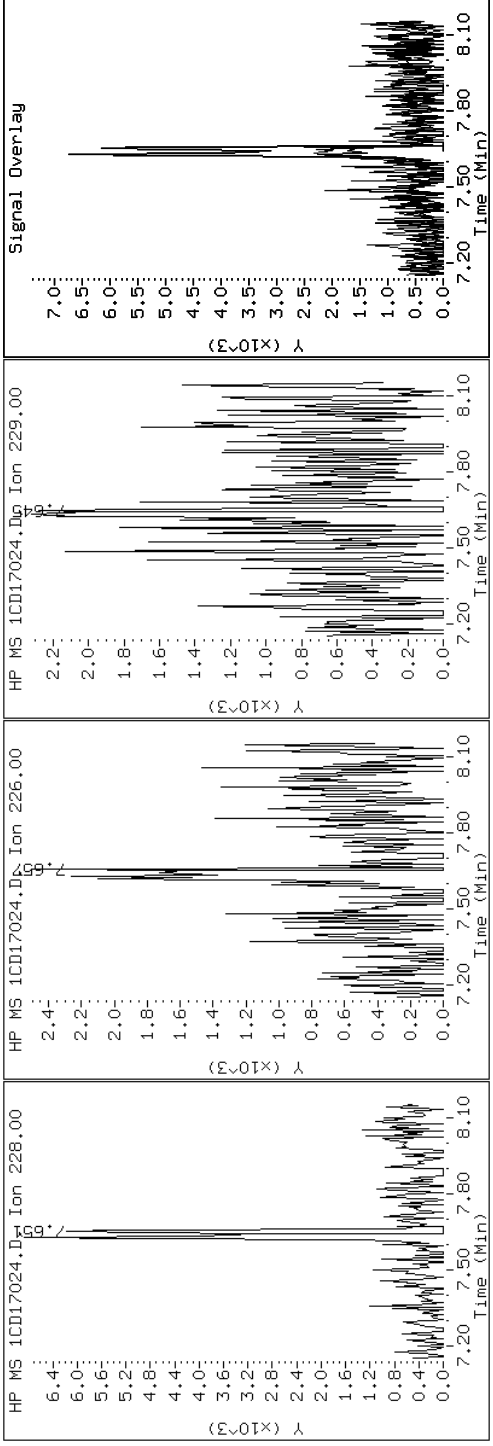
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

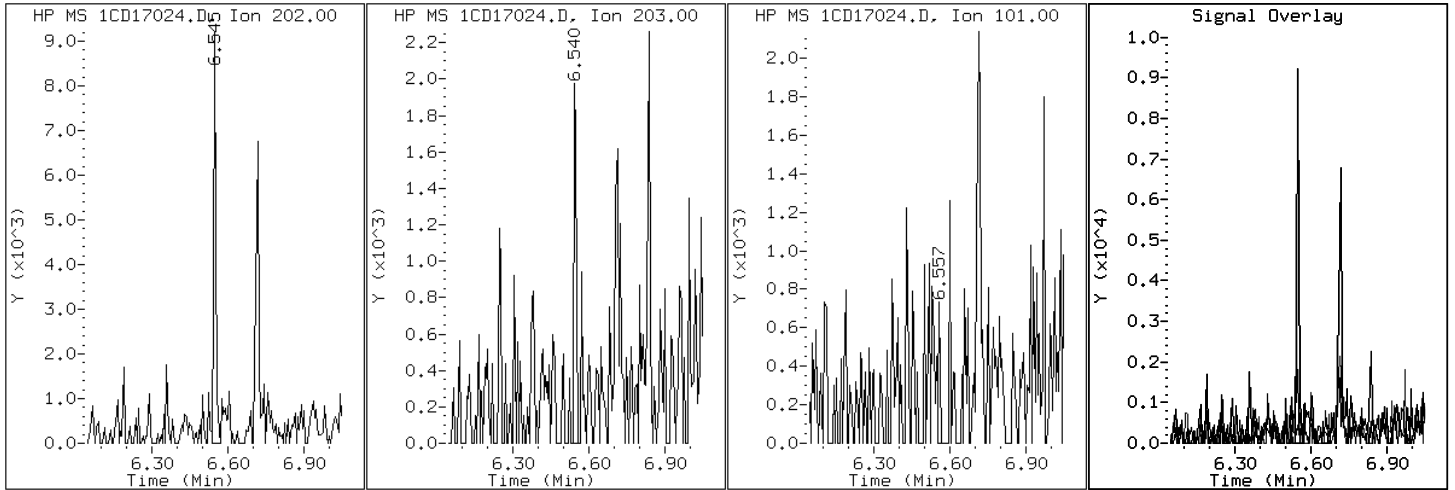
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

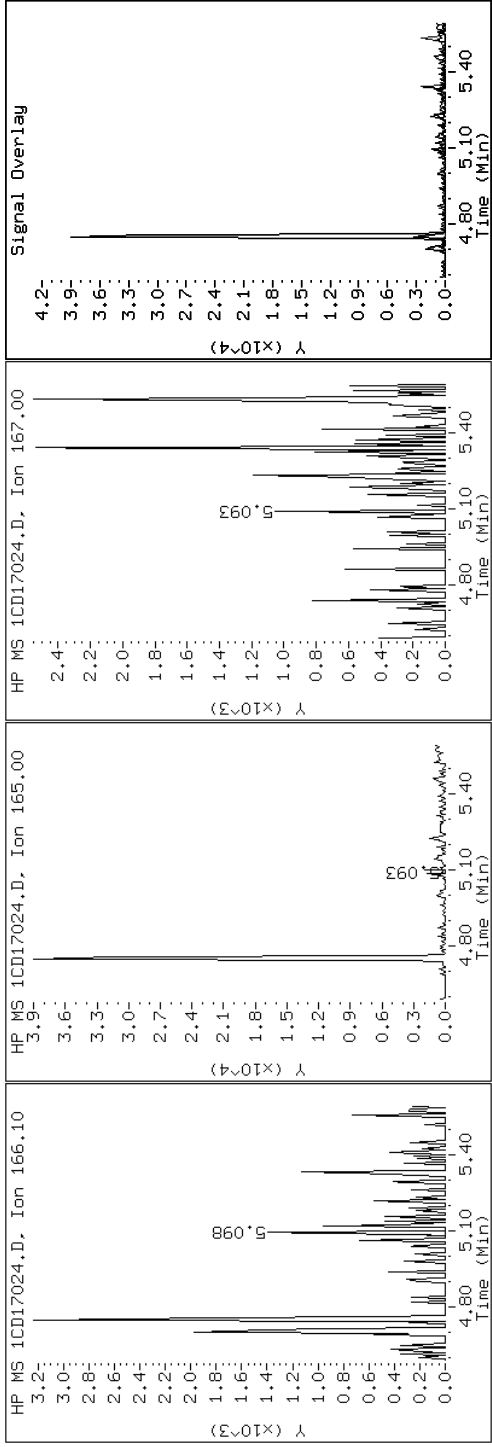
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

9 Fluorene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

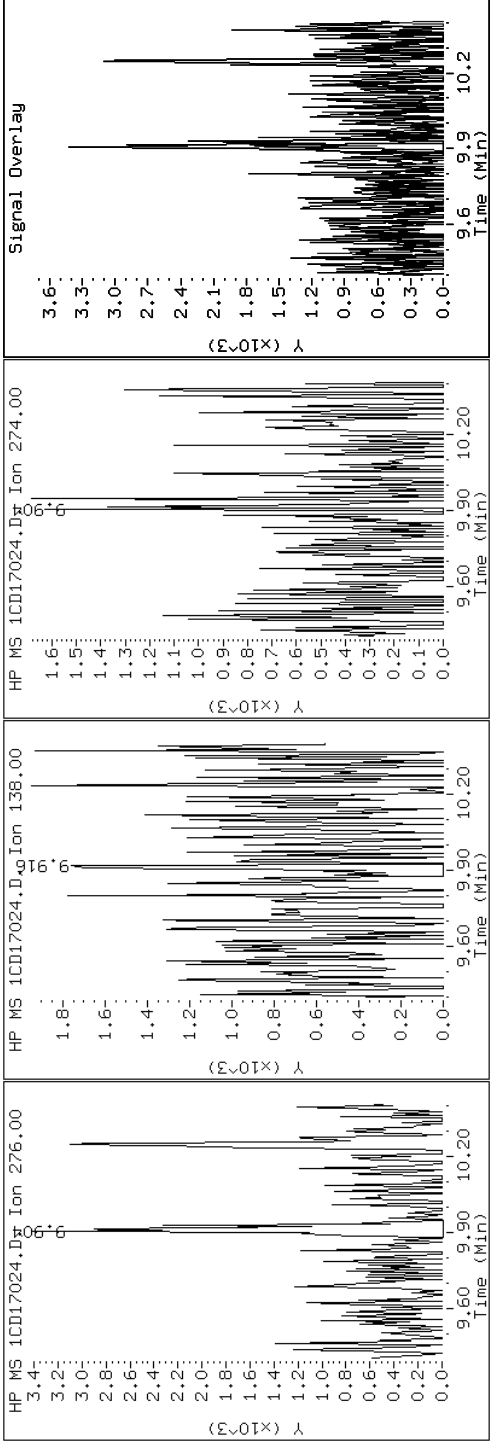
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

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



Data File: 1CDI17024.D

Date: 17-APR-2013 16:43

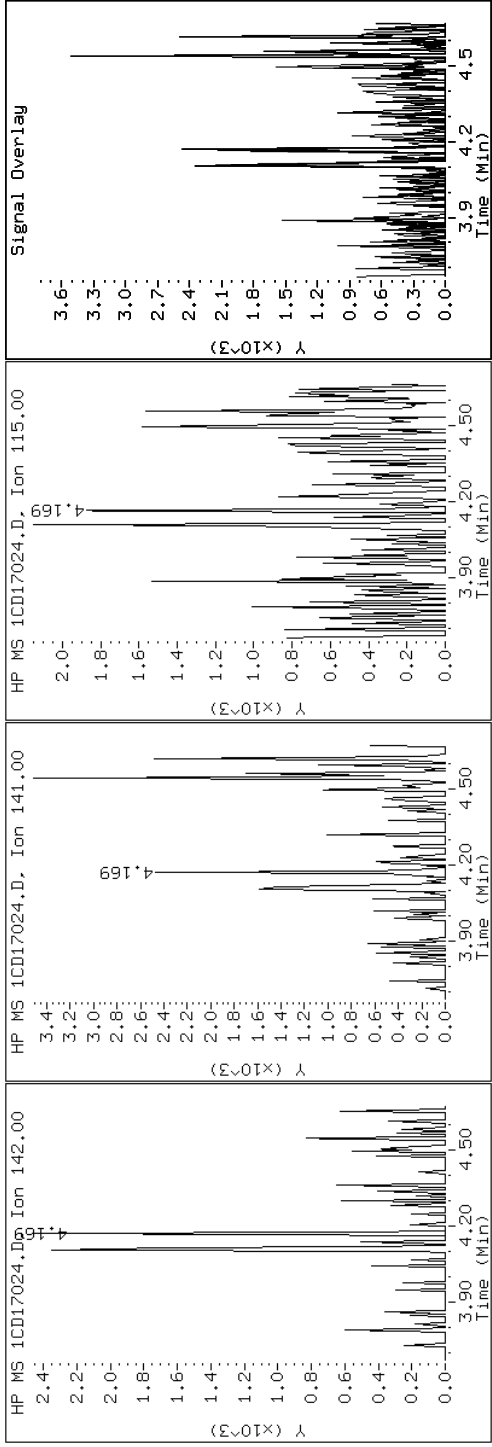
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD17024.D

Date: 17-APR-2013 16:43

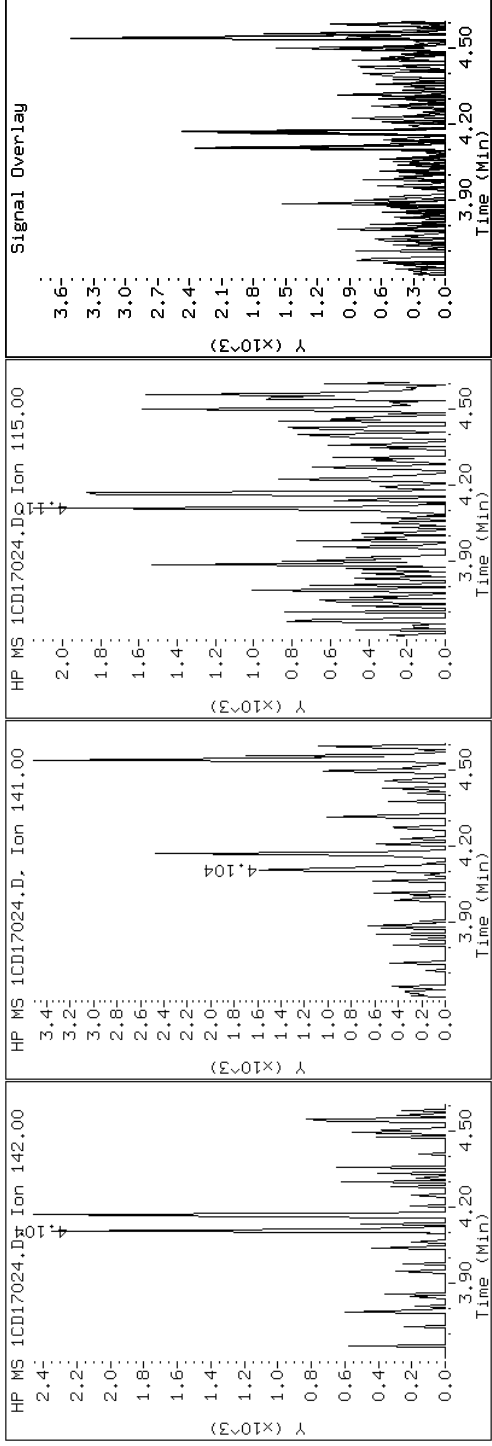
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

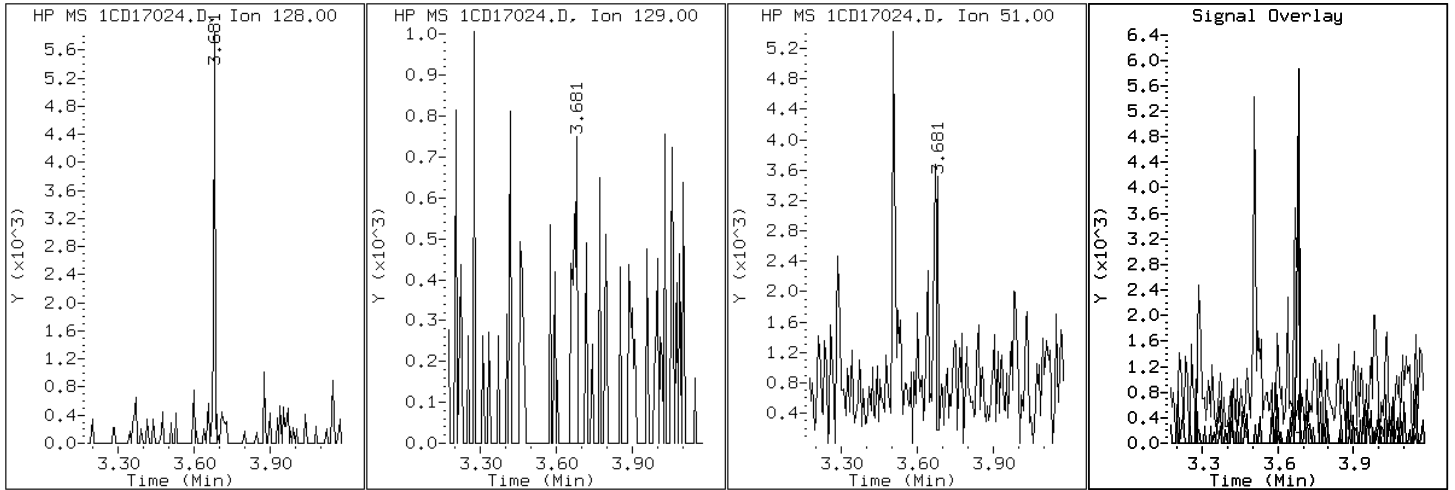
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CDI17024.D

Date: 17-APR-2013 16:43

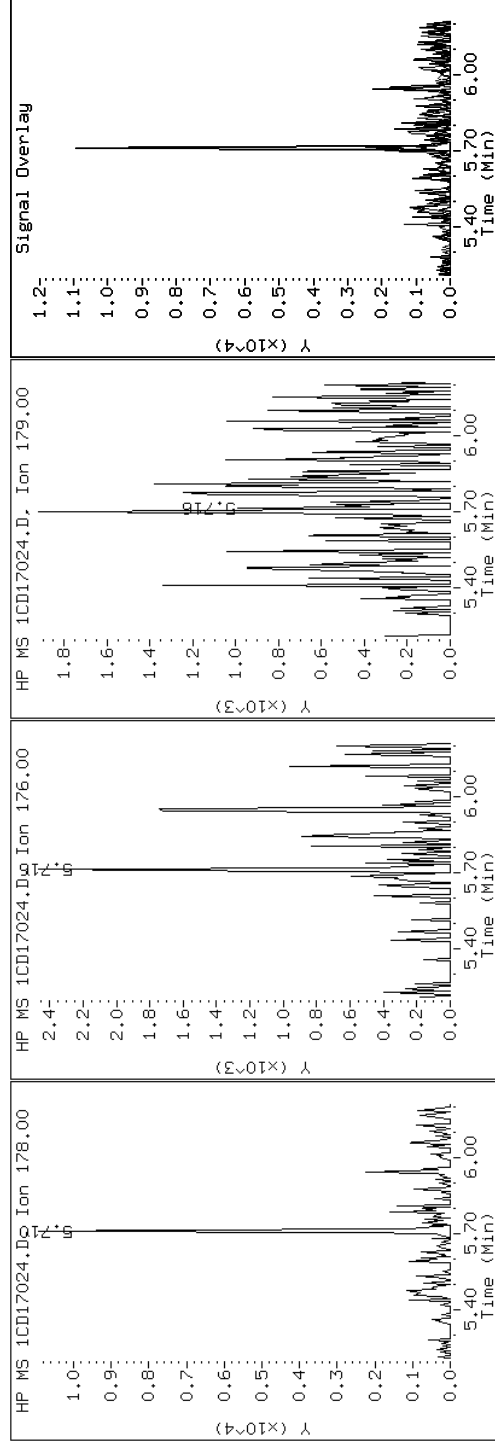
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1CD17024.D

Date: 17-APR-2013 16:43

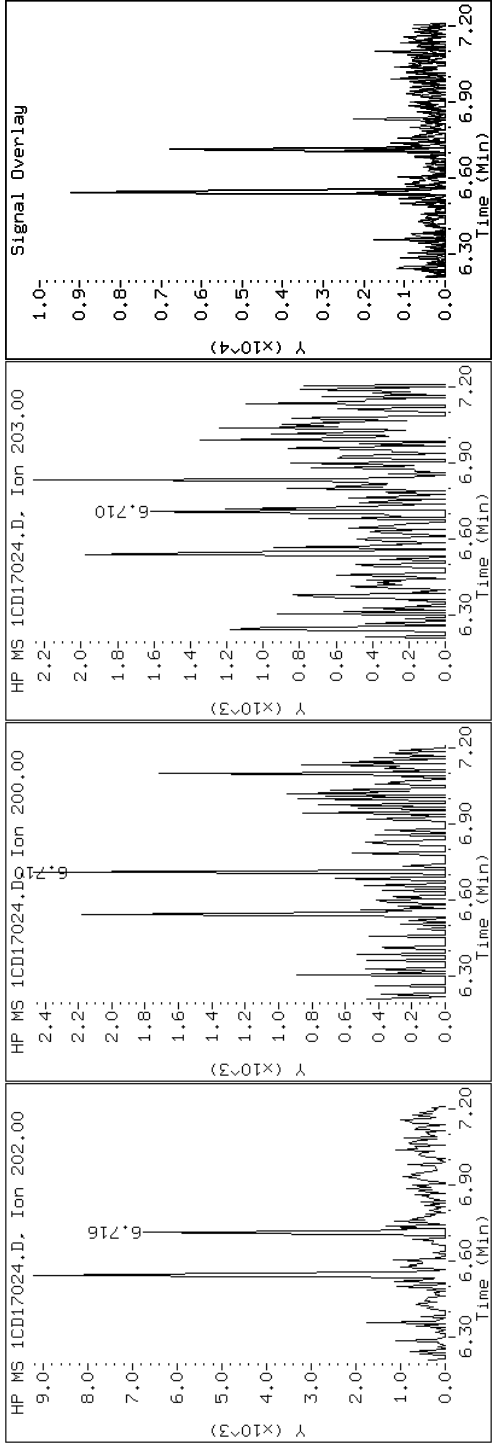
Client ID: CV0318A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-19-a

Operator: SCC

16 Pyrene

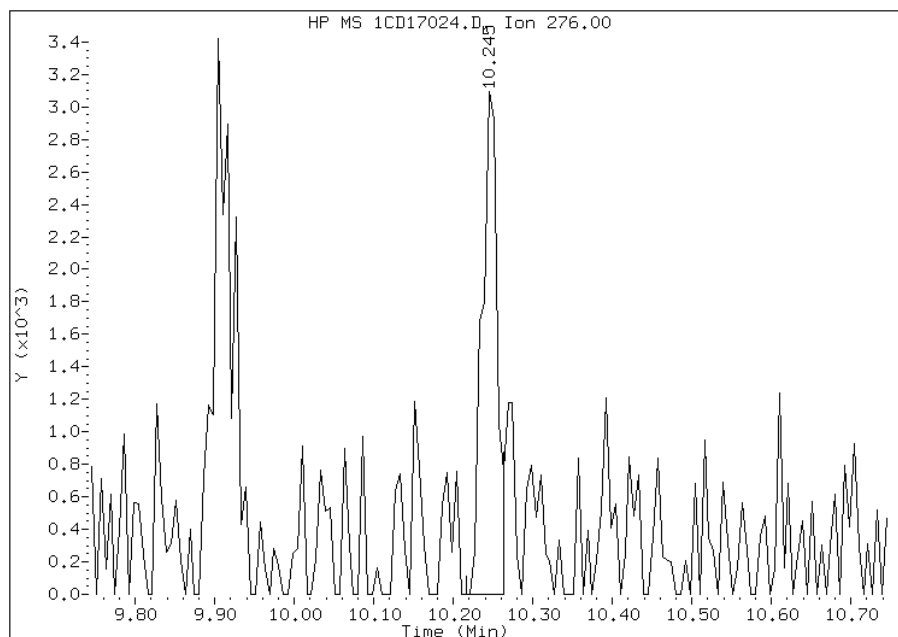


# Manual Integration Report

Data File: 1CD17024.D  
Inj. Date and Time: 17-APR-2013 16:43  
Instrument ID: BSMC5973.i  
Client ID: CV0318A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/18/2013

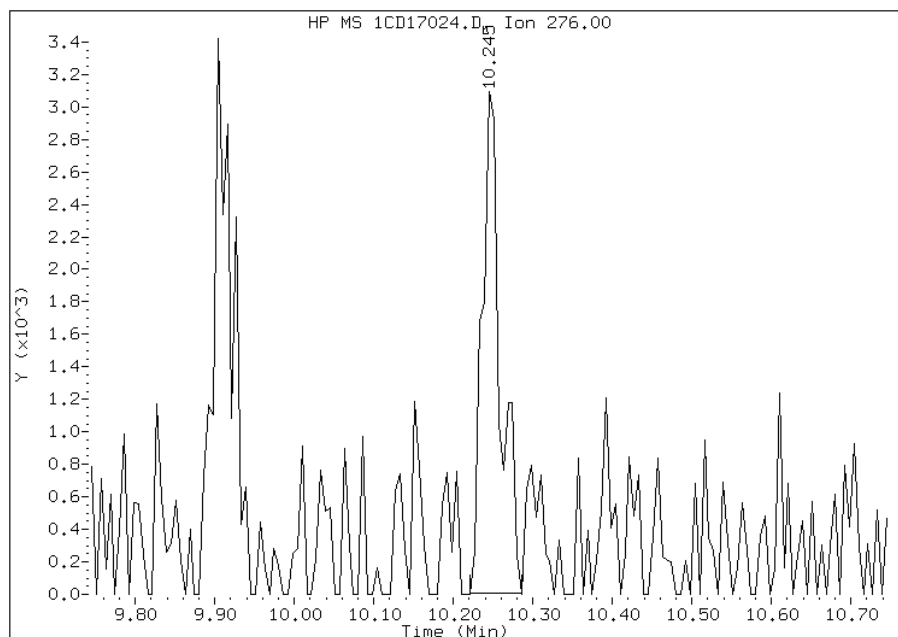
## Processing Integration Results

RT: 10.25  
Response: 4087  
Amount: 0  
Conc: 37



## Manual Integration Results

RT: 10.25  
Response: 4991  
Amount: 0  
Conc: 45



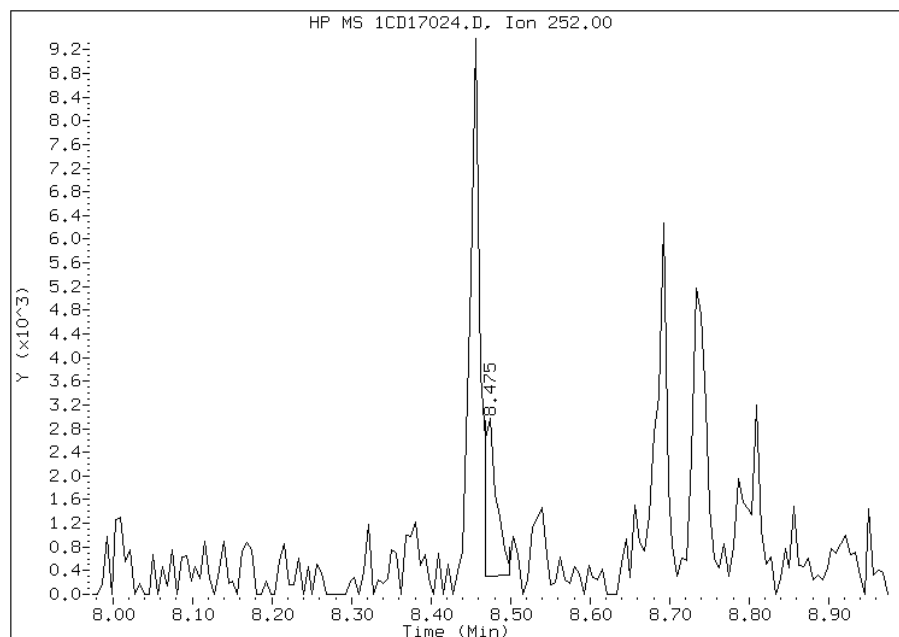
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:47  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17024.D  
Inj. Date and Time: 17-APR-2013 16:43  
Instrument ID: BSMC5973.i  
Client ID: CV0318A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

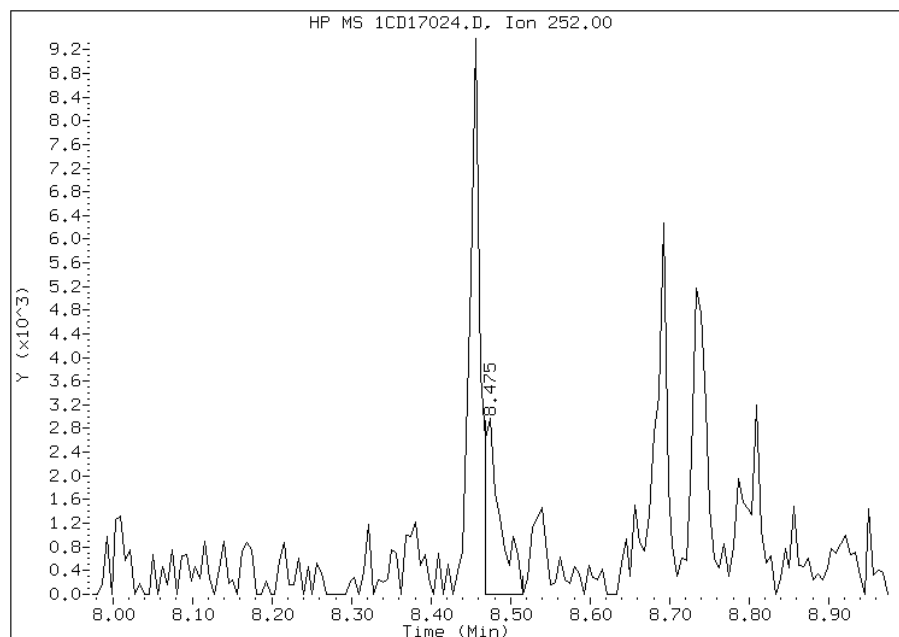
## Processing Integration Results

RT: 8.47  
Response: 2789  
Amount: 0  
Conc: 21



## Manual Integration Results

RT: 8.47  
Response: 4061  
Amount: 0  
Conc: 31



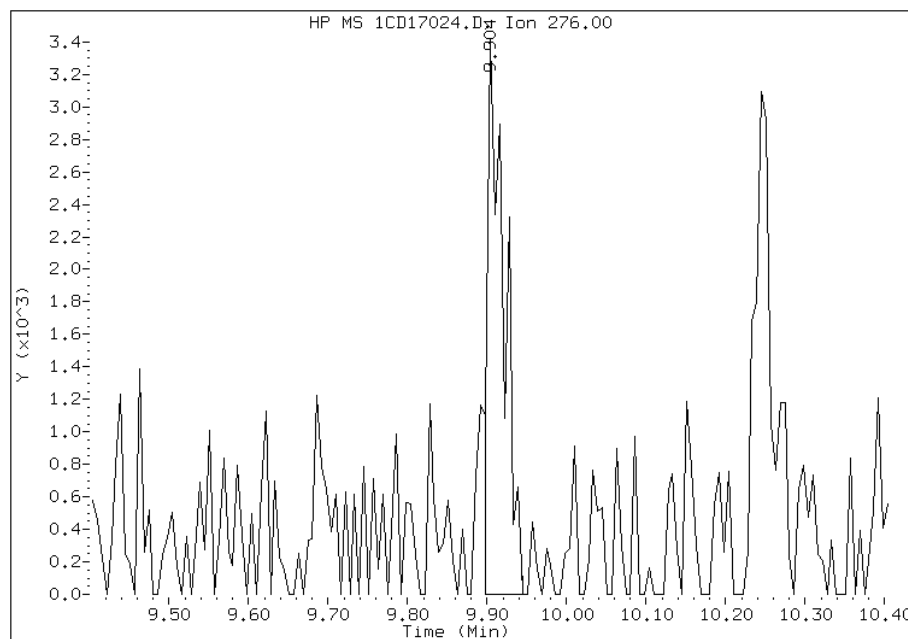
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:47  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17024.D  
Inj. Date and Time: 17-APR-2013 16:43  
Instrument ID: BSMC5973.i  
Client ID: CV0318A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

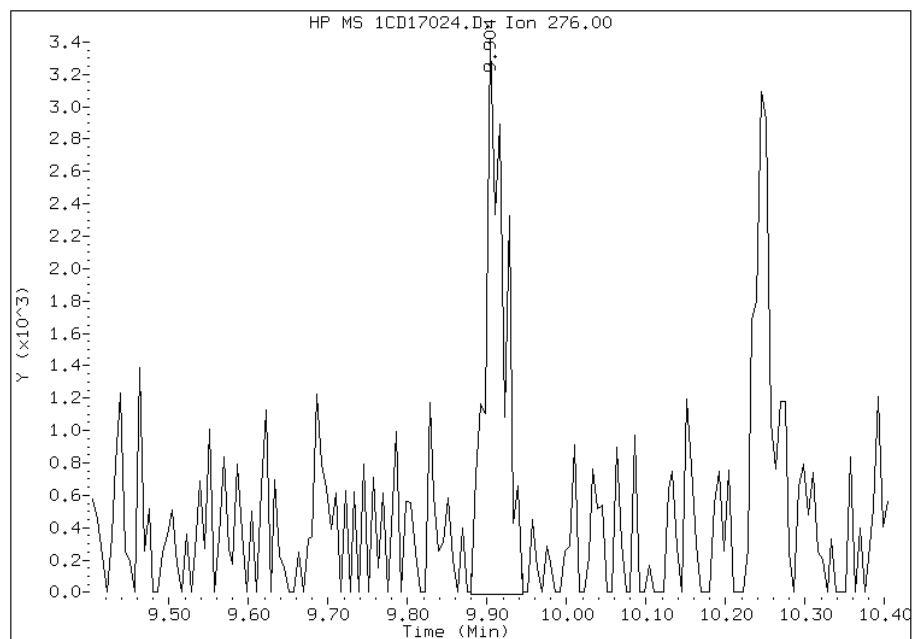
## Processing Integration Results

RT: 9.90  
Response: 5031  
Amount: 1  
Conc: 104



## Manual Integration Results

RT: 9.90  
Response: 5747  
Amount: 1  
Conc: 110



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:47  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0318B-CS-SP Lab Sample ID: 680-89275-20  
 Matrix: Solid Lab File ID: 1CD17025.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 14:45  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.88(g) Date Analyzed: 04/17/2013 17:01  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	9.6	J	49	6.2
120-12-7	Anthracene	32		10	5.2
56-55-3	Benzo[a]anthracene	78		9.9	4.8
50-32-8	Benzo[a]pyrene	100		13	6.4
205-99-2	Benzo[b]fluoranthene	210		15	7.5
191-24-2	Benzo[g,h,i]perylene	140		25	5.4
207-08-9	Benzo[k]fluoranthene	49		9.9	4.4
218-01-9	Chrysene	140		11	5.6
53-70-3	Dibenz(a,h)anthracene	75		25	5.1
206-44-0	Fluoranthene	150		25	4.9
86-73-7	Fluorene	10	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	8.8
90-12-0	1-Methylnaphthalene	26	J	49	5.4
91-57-6	2-Methylnaphthalene	70		49	8.8
91-20-3	Naphthalene	78		49	5.4
85-01-8	Phenanthrene	110		9.9	4.8
129-00-0	Pyrene	110		25	4.6

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



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17025.D  
 Lab Smp Id: 680-89275-A-20-A Client Smp ID: CV0318B-CS-SP  
 Inj Date : 17-APR-2013 17:01  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-20-a  
 Misc Info : 680-89275-A-20-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins 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	14.880	Weight Extracted
M	18.354	% 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		3.668	3.663	(1.000)	324125	40.0000		
* 6 Acenaphthene-d10	164		4.757	4.751	(1.000)	231967	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.698	(1.000)	418606	40.0000		
\$ 14 o-Terphenyl	230		5.951	5.945	(1.044)	33848	5.57256	458.6899	
* 18 Chrysene-d12	240		7.633	7.627	(1.000)	450263	40.0000		
* 23 Perylene-d12	264		8.792	8.780	(1.000)	429487	40.0000		
2 Naphthalene	128		3.680	3.680	(1.003)	8331	0.95085	78.2668	
3 2-Methylnaphthalene	142		4.110	4.104	(1.120)	3376	0.84885	69.8710	
4 1-Methylnaphthalene	142		4.168	4.168	(1.136)	1755	0.31358	25.8118(Q)	
5 Acenaphthylene	152		4.668	4.663	(0.981)	1151	0.11710	9.6386(Q)	
9 Fluorene	166		5.092	5.092	(1.070)	913	0.12112	9.9694	
11 Phenanthrene	178		5.715	5.709	(1.003)	16366	1.33803	110.1359	
12 Anthracene	178		5.745	5.745	(1.008)	4778	0.39317	32.3624	
13 Carbazole	167		5.857	5.851	(1.028)	3051	0.26956	22.1883(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.545	6.545	(1.149)	24280	1.78797	147.1715
16 Pyrene	202	6.715	6.709	(0.880)	16983	1.32581	109.1305
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	12048	0.94624	77.8868
19 Chrysene	228	7.651	7.651	(1.002)	21208	1.68375	138.5934
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.962)	28266	2.60570	214.4812(M)
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.964)	7277	0.59284	48.7979(QM)
22 Benzo(a)pyrene	252	8.739	8.733	(0.994)	13924	1.24176	102.2117
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903	(1.127)	8902	1.43851	118.4068(M)
25 Dibenzo(a,h)anthracene	278	9.915	9.915	(1.128)	5141	0.91448	75.2727(M)
26 Benzo(g,h,i)perylene	276	10.244	10.233	(1.165)	17575	1.67220	137.6421(M)

QC Flag Legend

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

Data File: 1CD17025.D

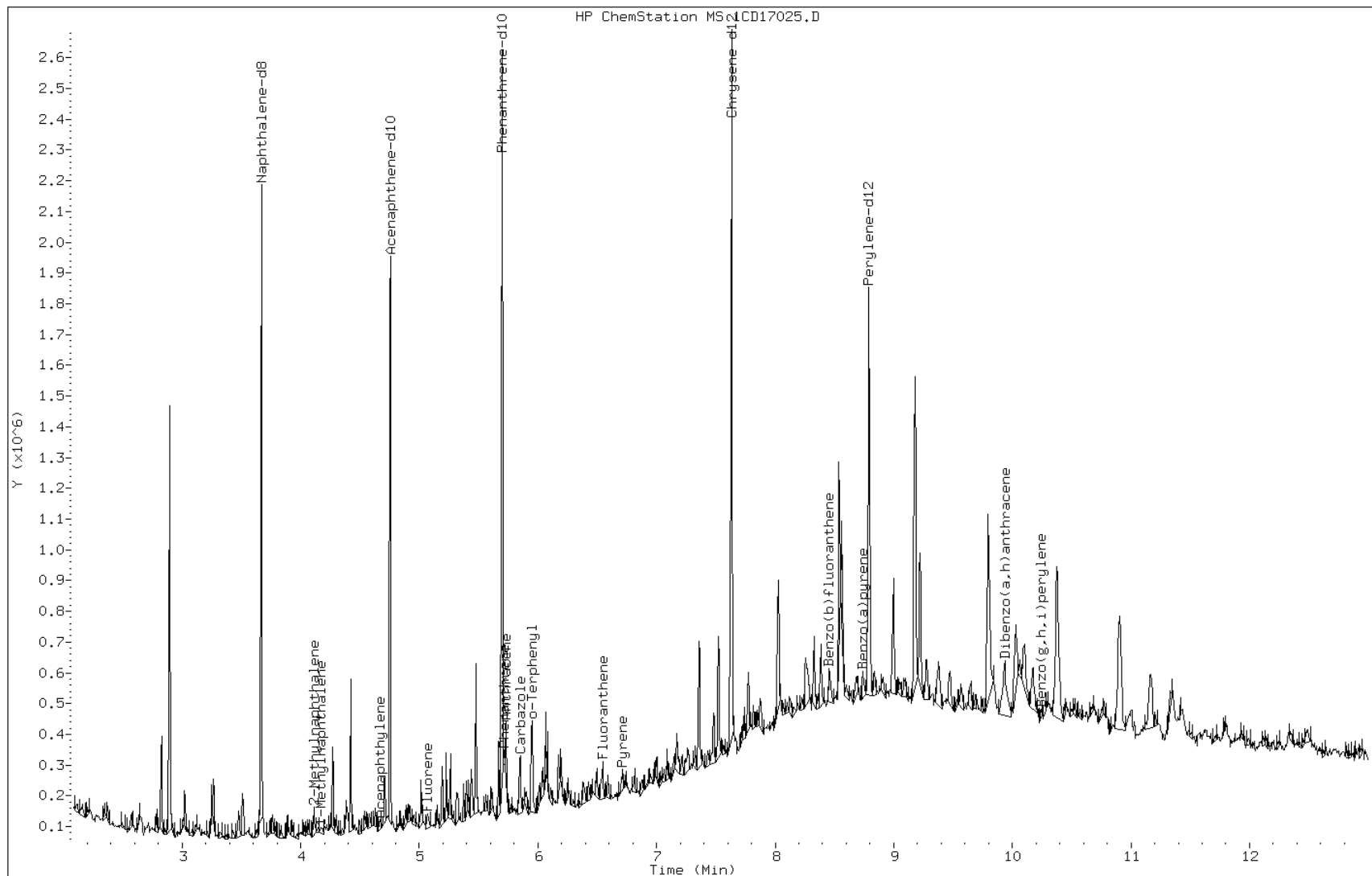
Date: 17-APR-2013 17:01

Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

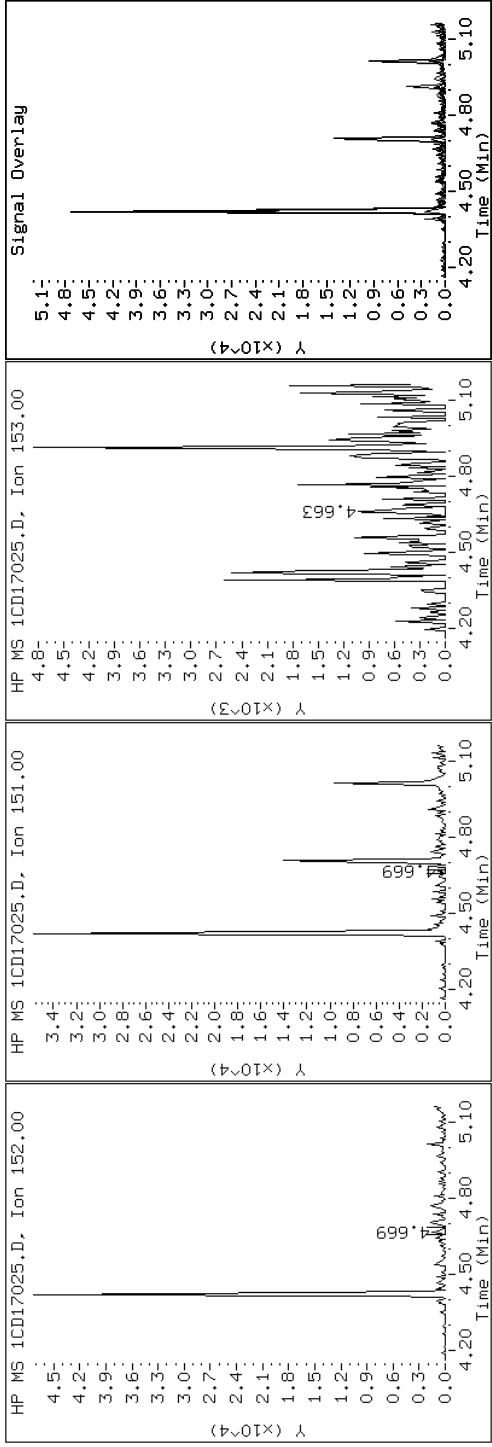
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

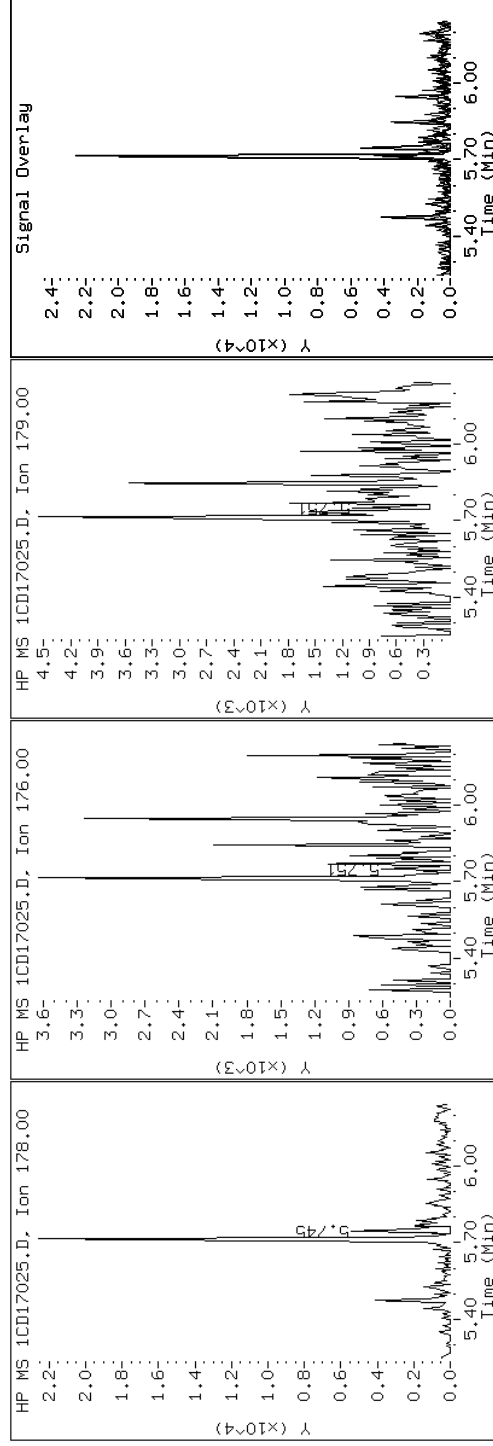
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

12 Anthracene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

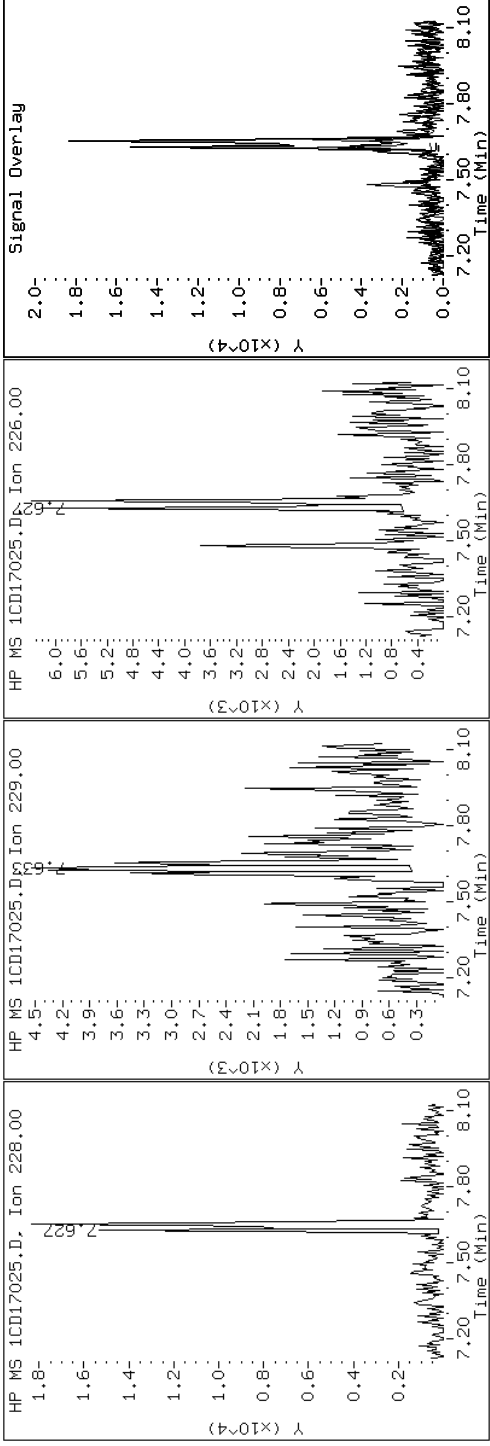
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

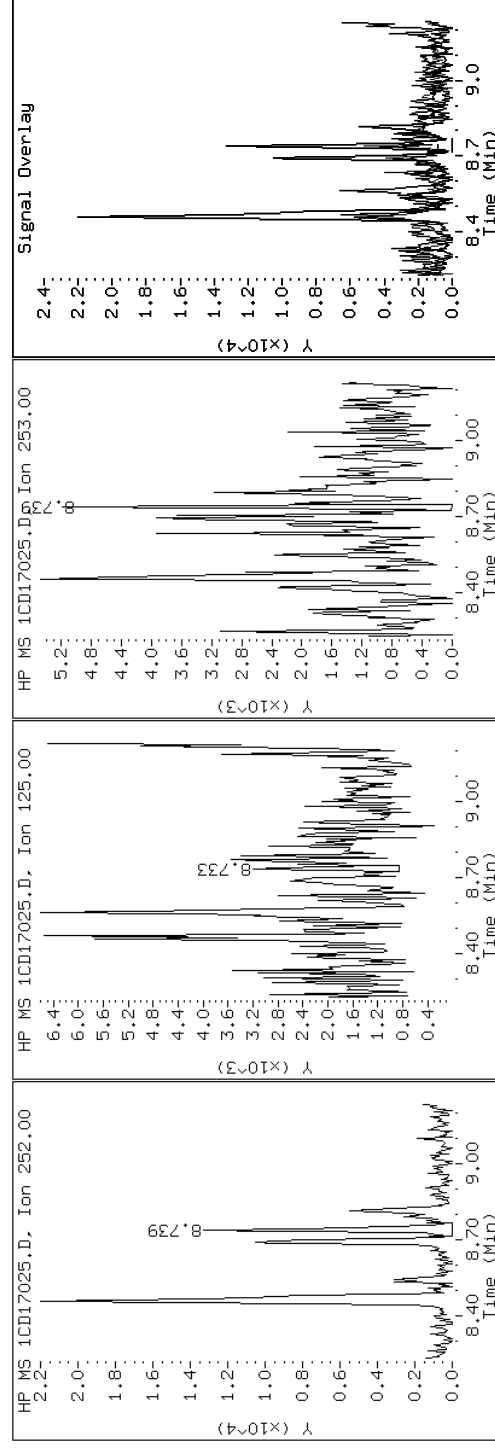
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

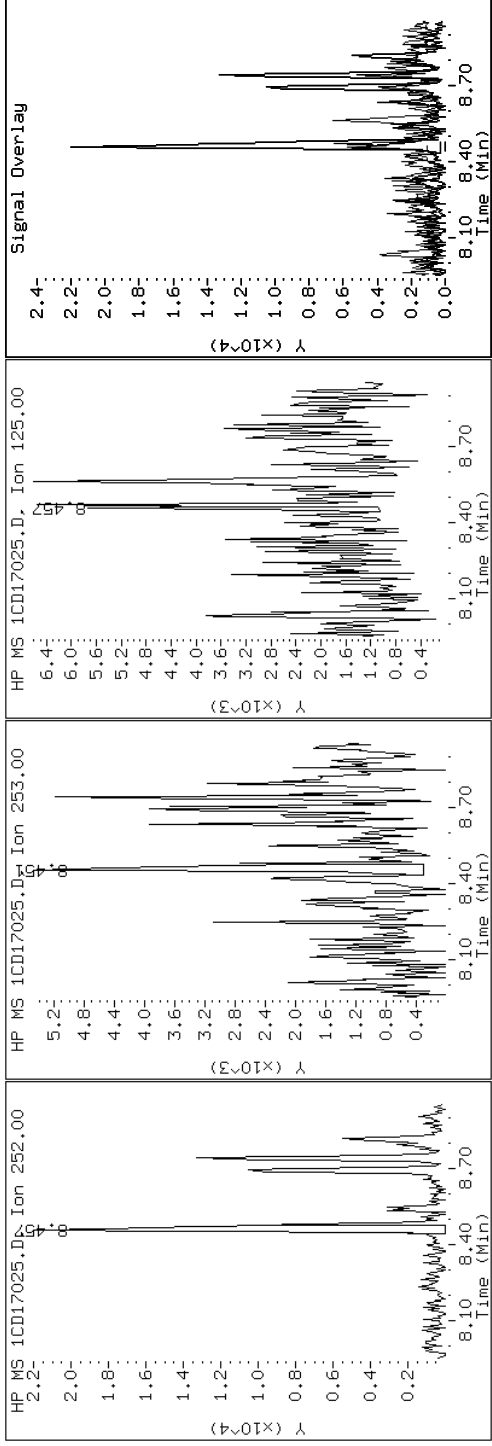
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

20 Benzo(b)fluoranthene





Data File: 1CD17025.D

Date: 17-APR-2013 17:01

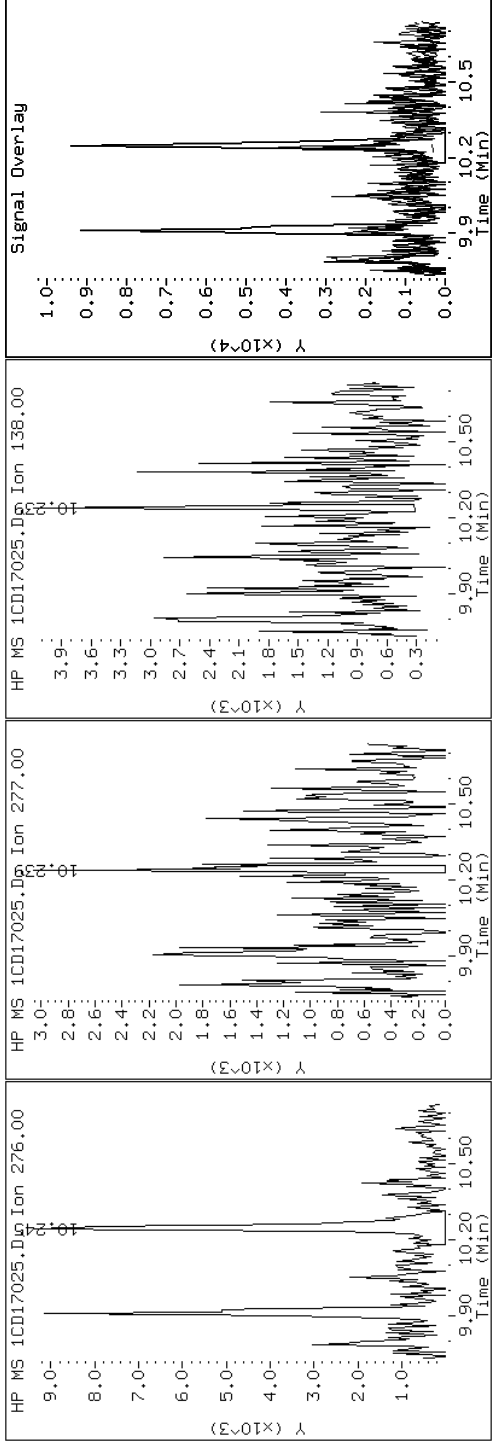
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

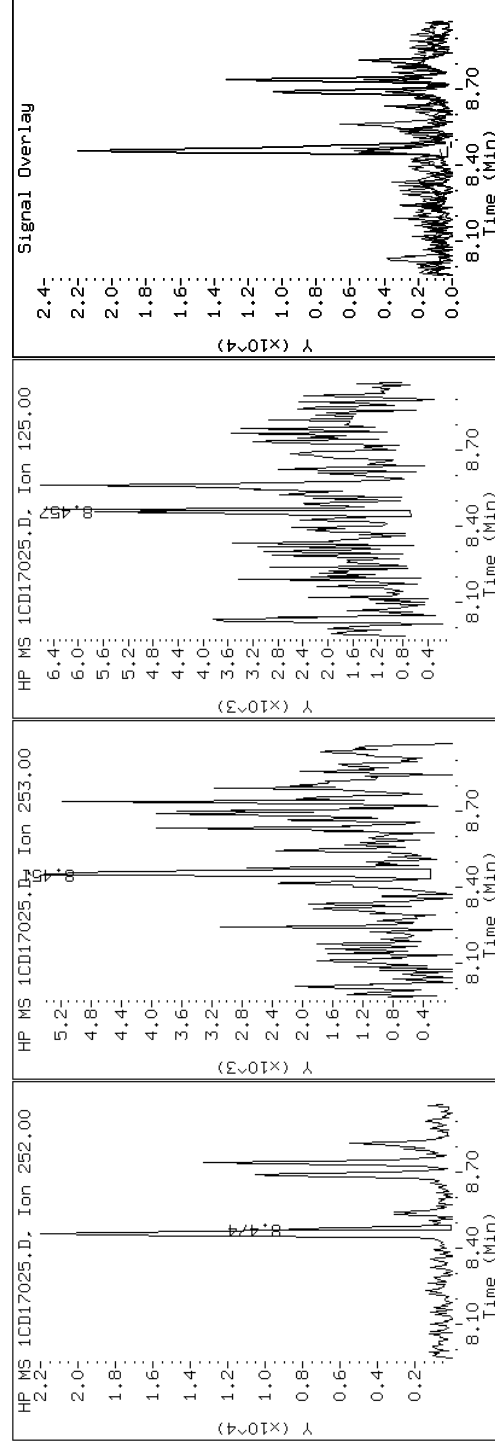
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CDI17025.D

Date: 17-APR-2013 17:01

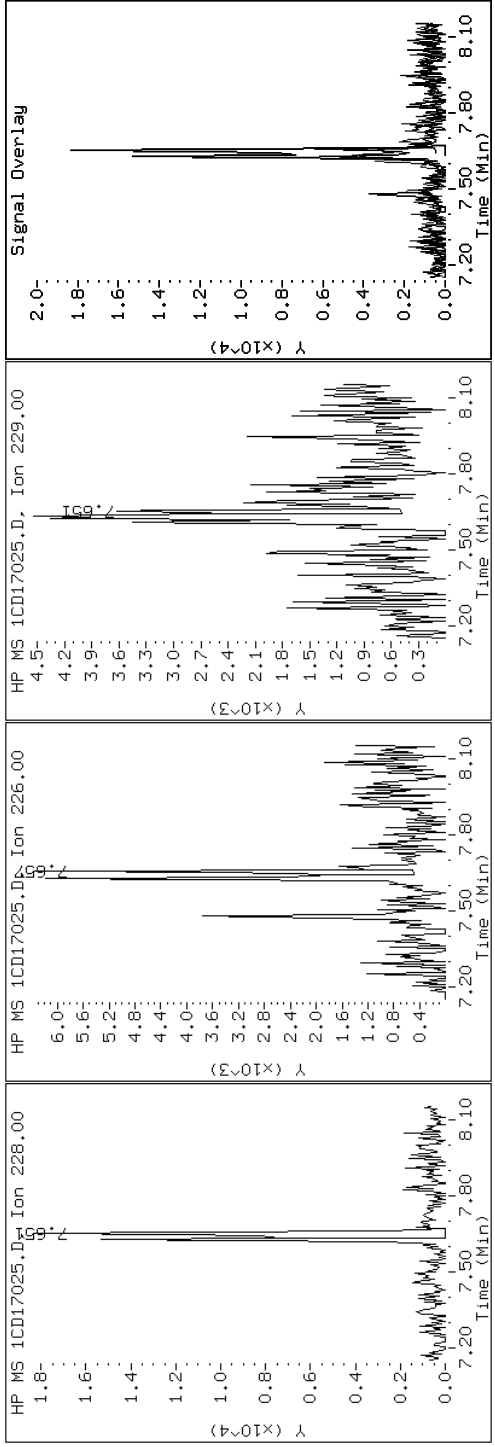
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

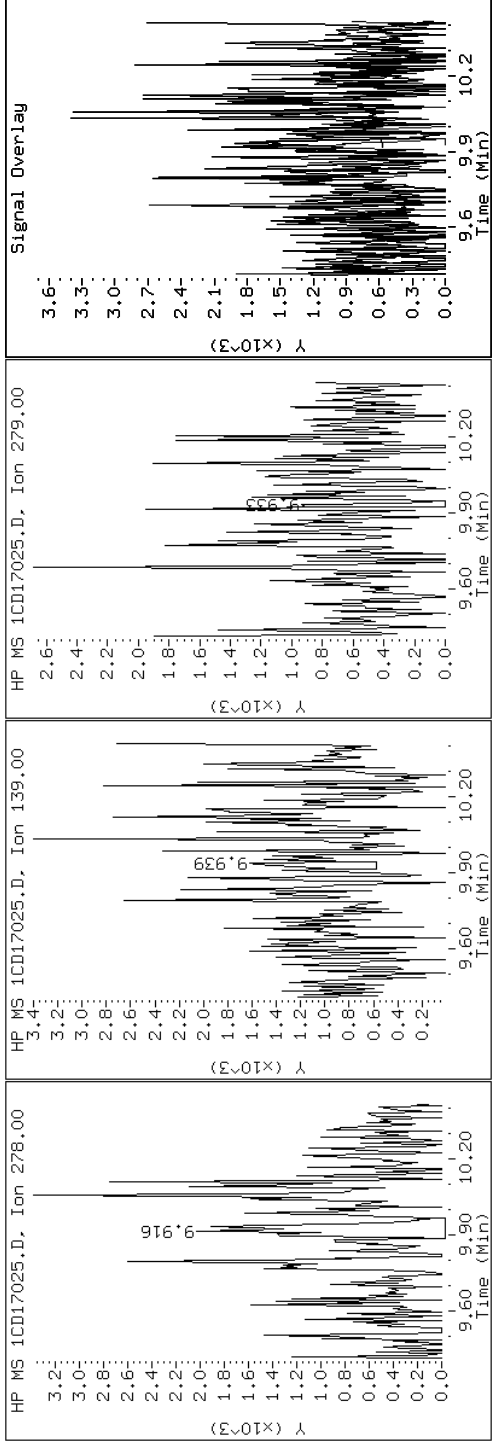
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

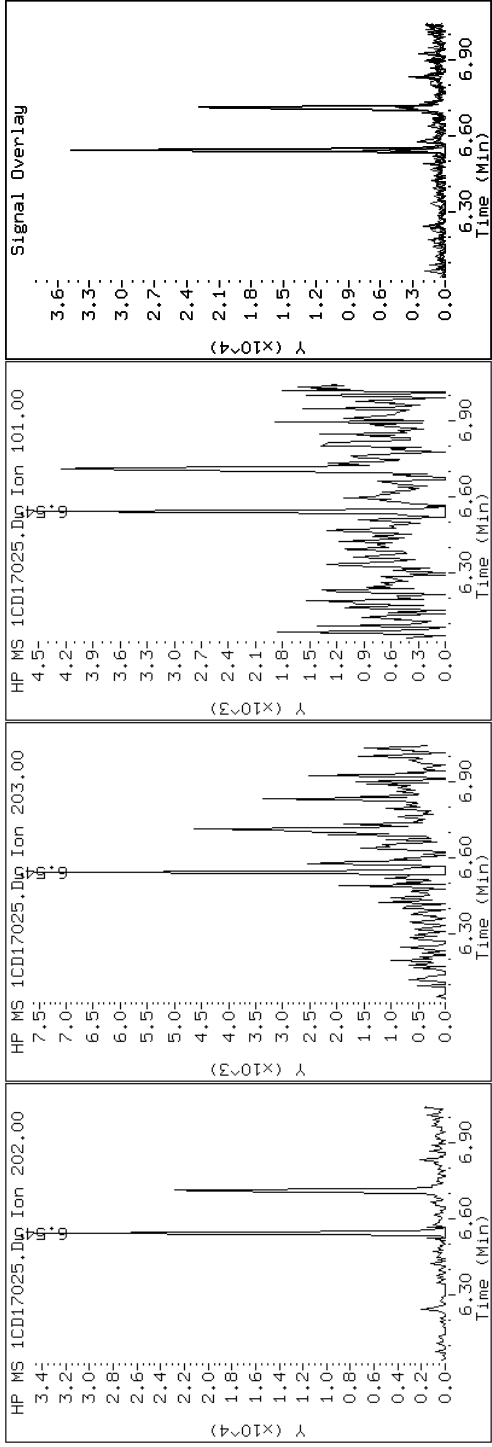
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

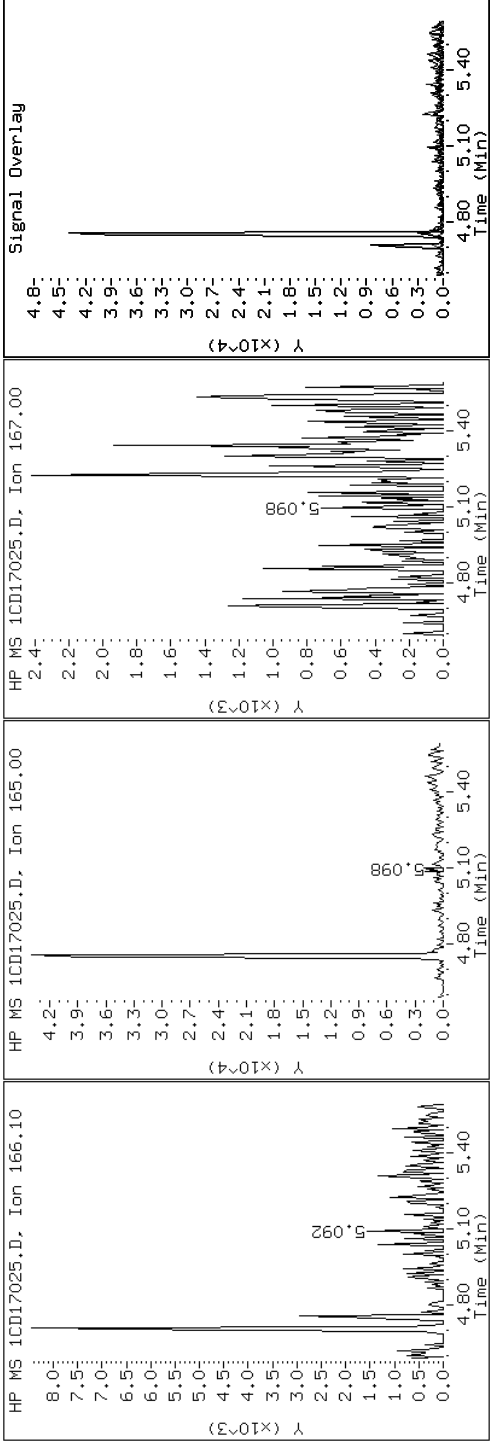
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

9 Fluorene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

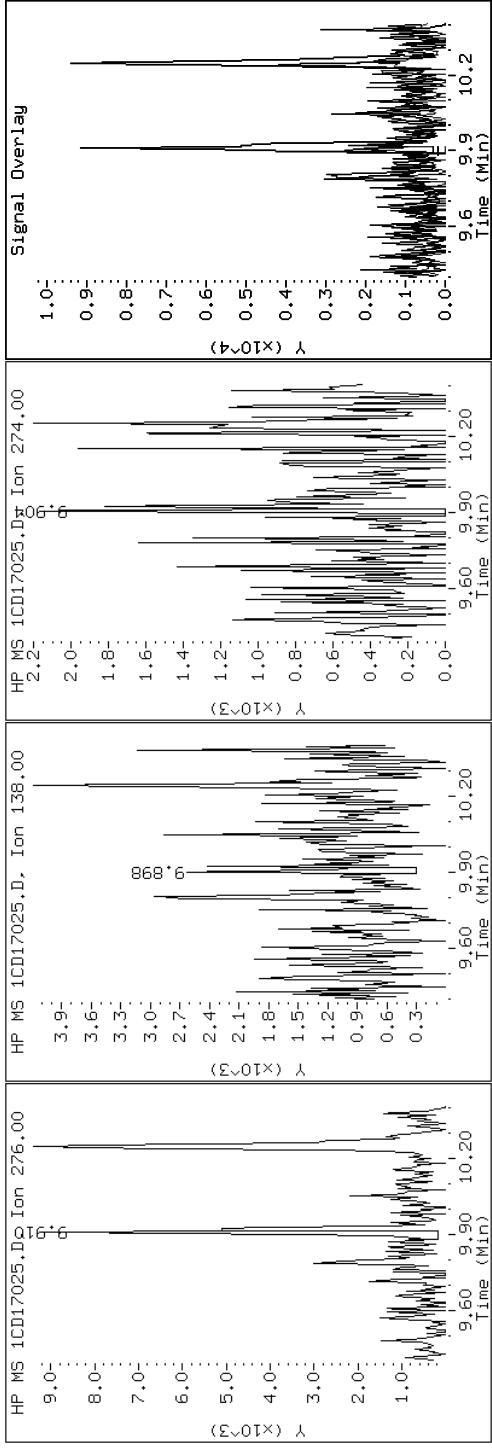
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

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



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

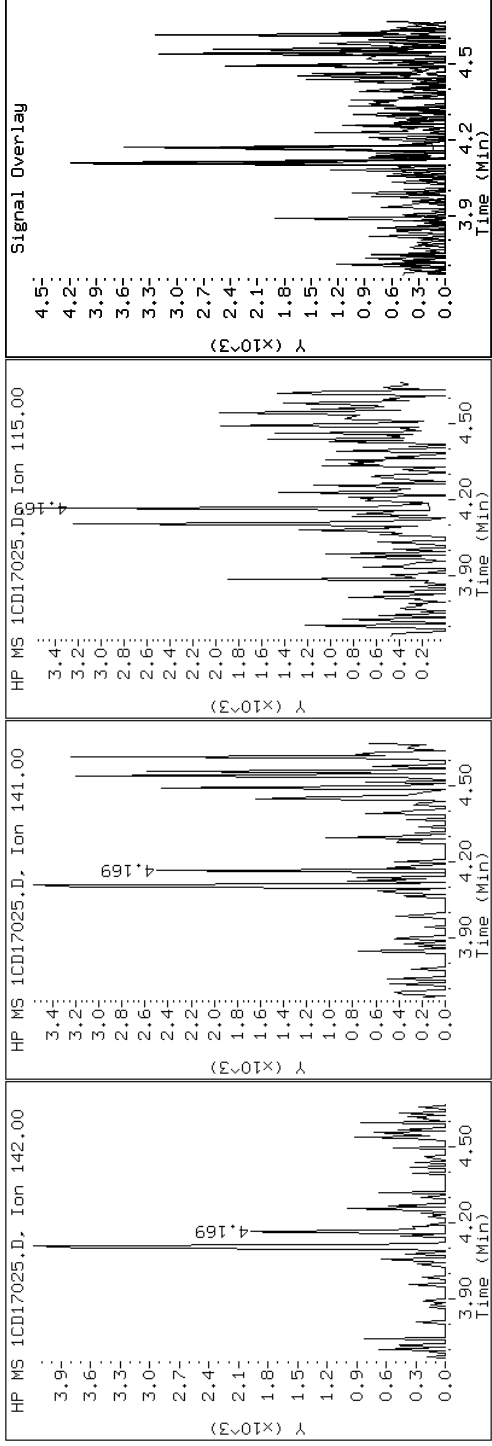
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD17025.D

Date: 17-APR-2013 17:01

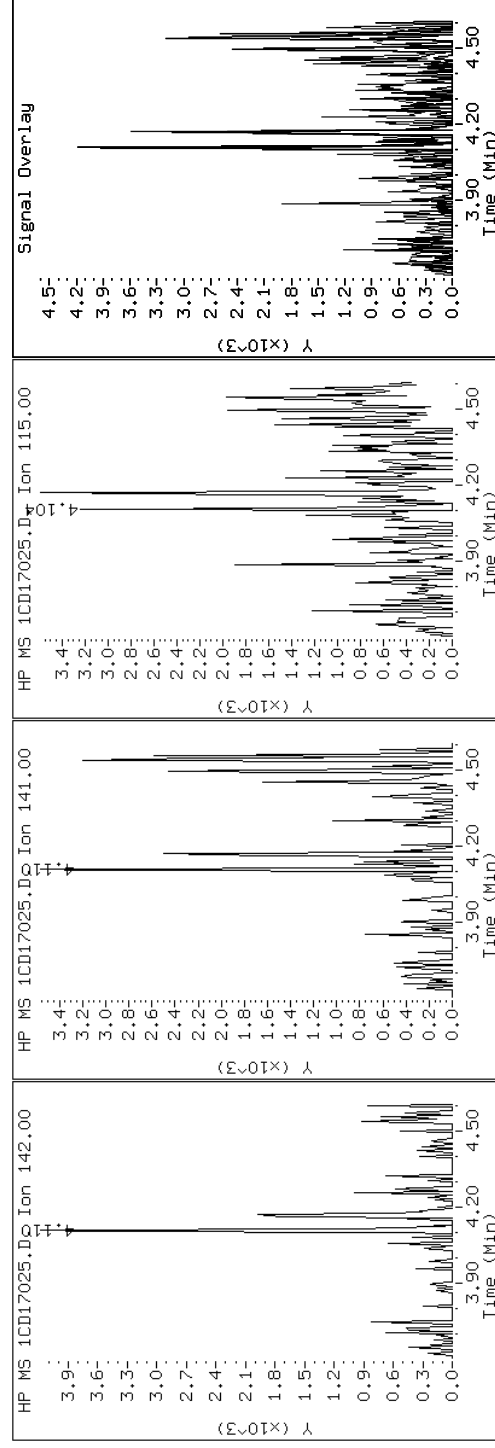
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

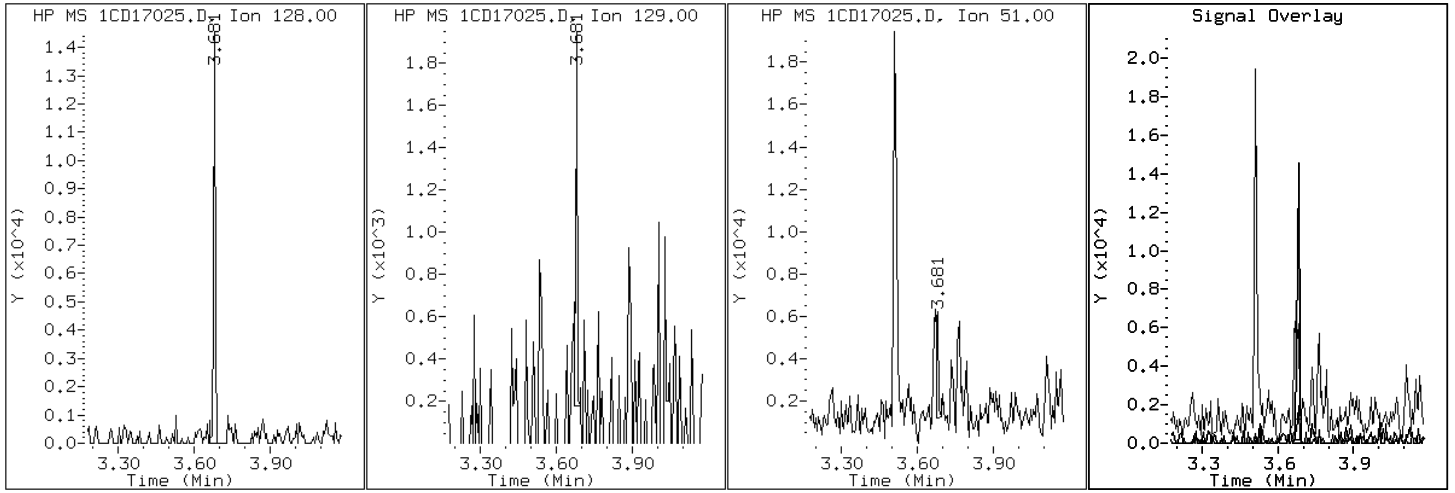
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

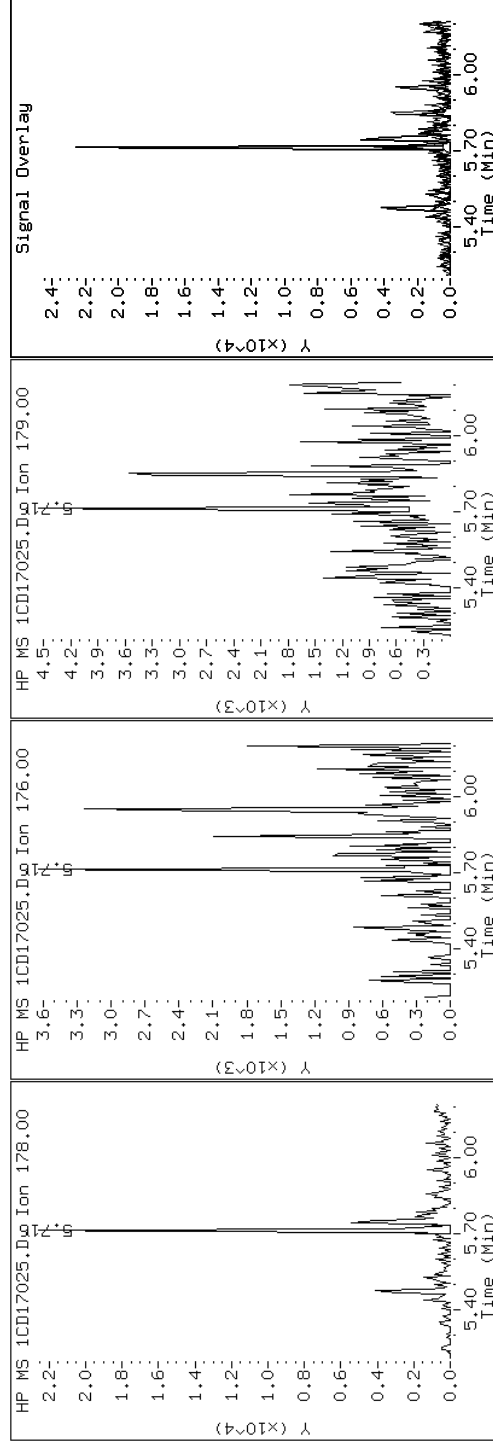
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

### 11 Phenanthrene



Data File: 1CD17025.D

Date: 17-APR-2013 17:01

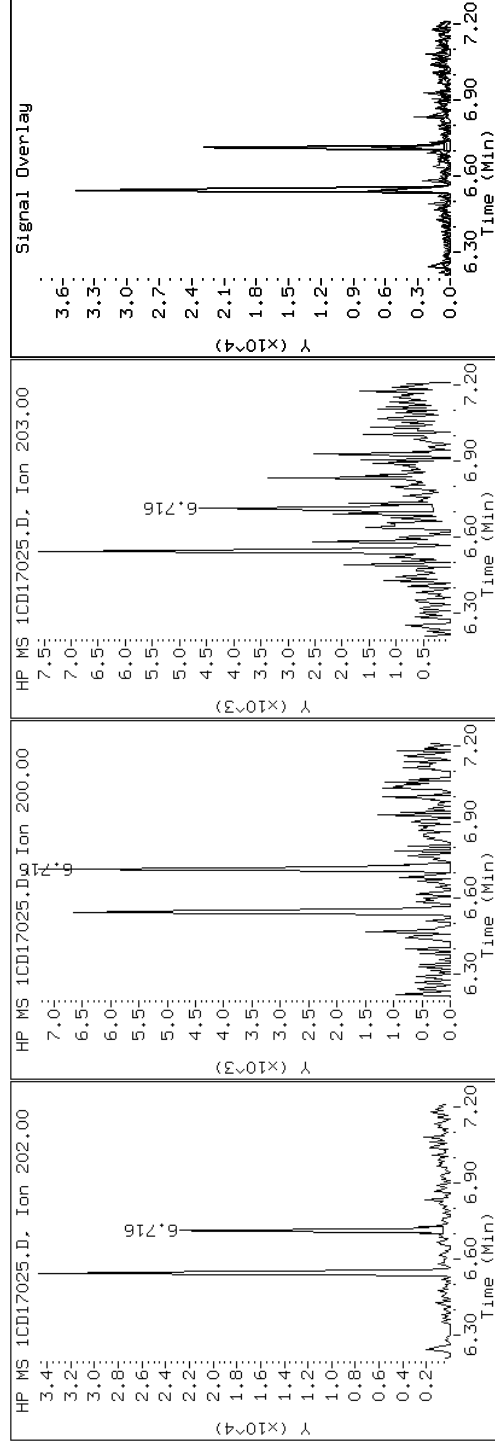
Client ID: CV0318B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89275-a-20-a

Operator: SCC

16 Pyrene

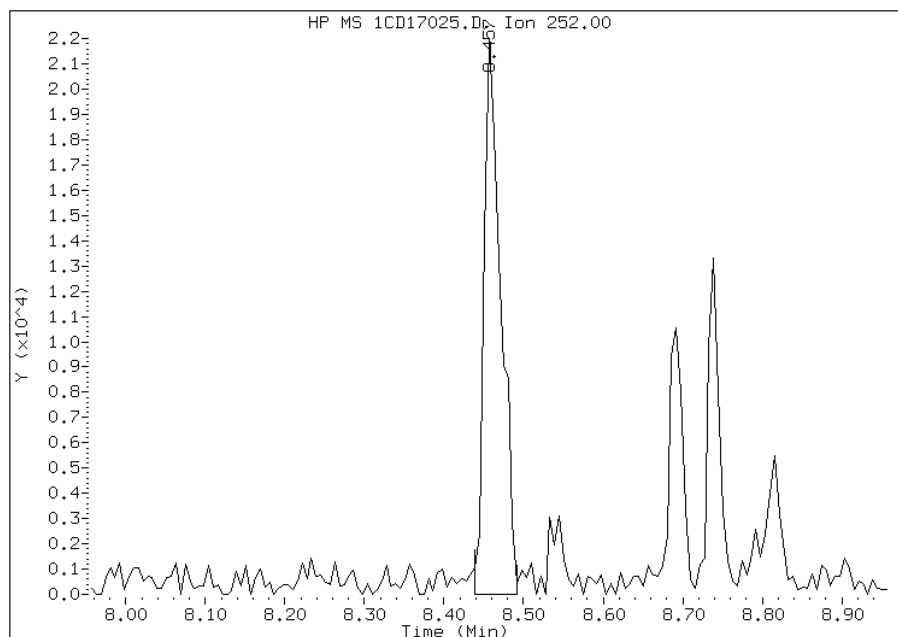


# Manual Integration Report

Data File: 1CD17025.D  
Inj. Date and Time: 17-APR-2013 17:01  
Instrument ID: BSMC5973.i  
Client ID: CV0318B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/18/2013

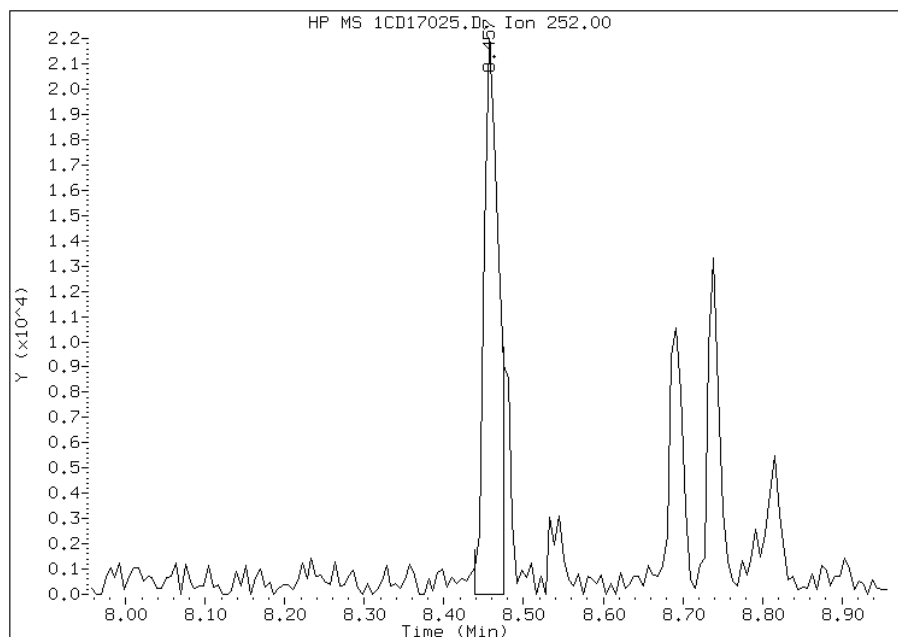
## Processing Integration Results

RT: 8.46  
Response: 32452  
Amount: 3  
Conc: 246



## Manual Integration Results

RT: 8.46  
Response: 28266  
Amount: 3  
Conc: 214



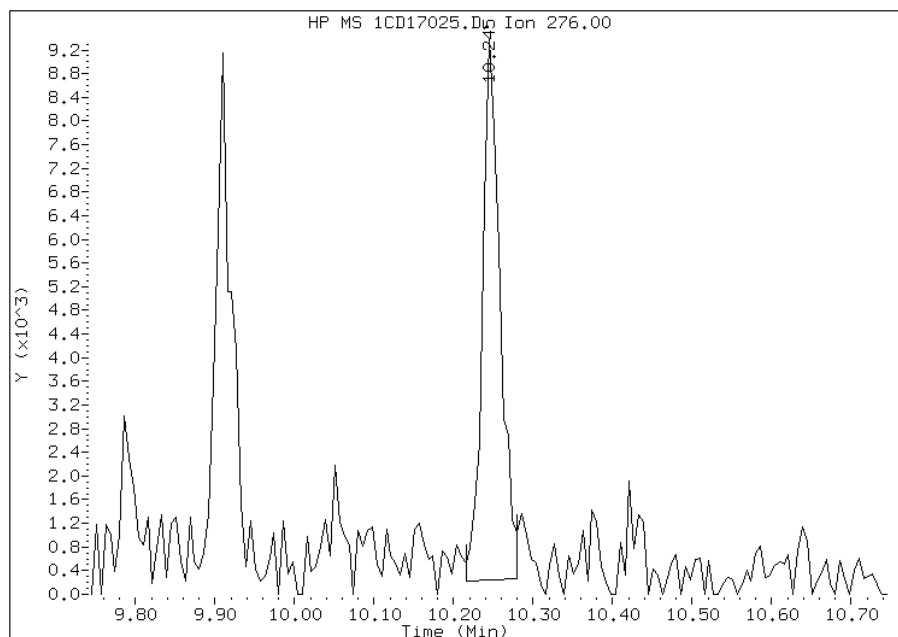
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:48  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD17025.D  
Inj. Date and Time: 17-APR-2013 17:01  
Instrument ID: BSMC5973.i  
Client ID: CV0318B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/18/2013

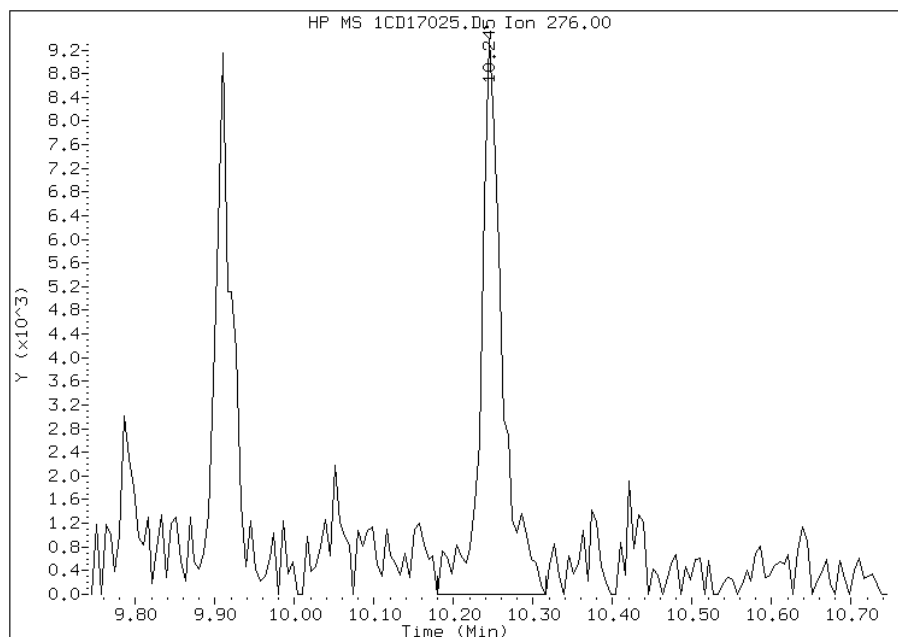
## Processing Integration Results

RT: 10.24  
Response: 14193  
Amount: 1  
Conc: 111



## Manual Integration Results

RT: 10.24  
Response: 17575  
Amount: 2  
Conc: 138



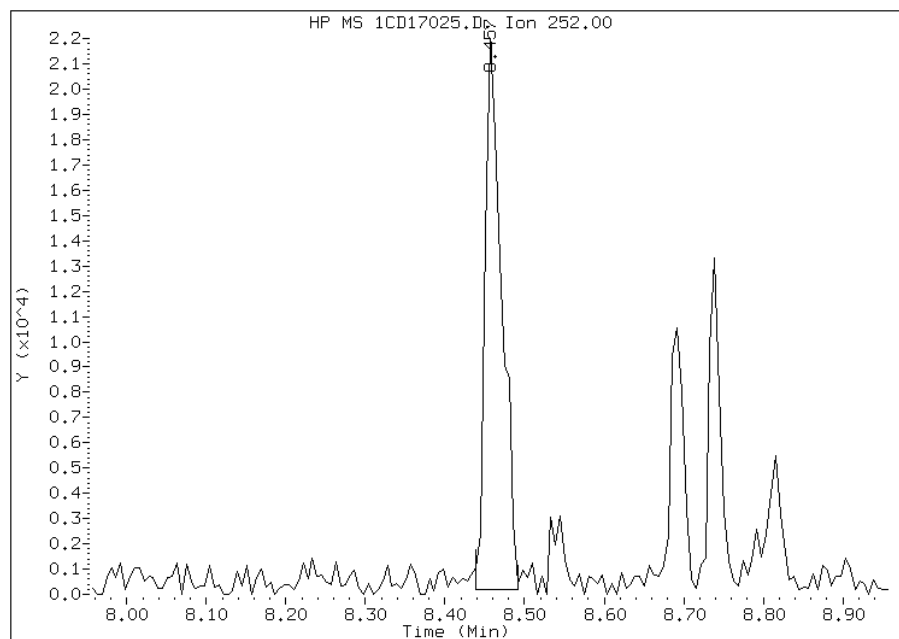
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:49  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17025.D  
Inj. Date and Time: 17-APR-2013 17:01  
Instrument ID: BSMC5973.i  
Client ID: CV0318B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/18/2013

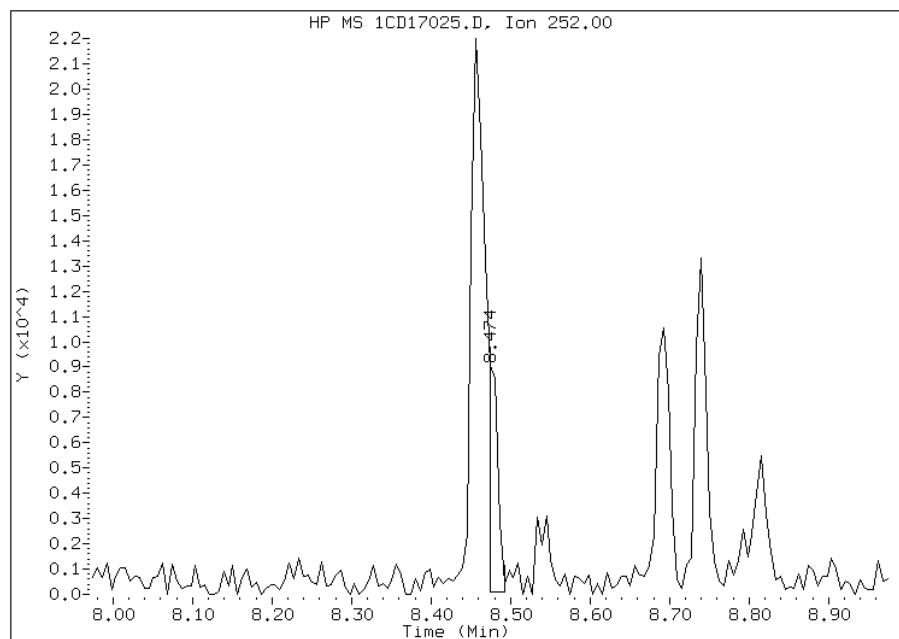
## Processing Integration Results

RT: 8.46  
Response: 31832  
Amount: 3  
Conc: 213



## Manual Integration Results

RT: 8.47  
Response: 7277  
Amount: 1  
Conc: 49



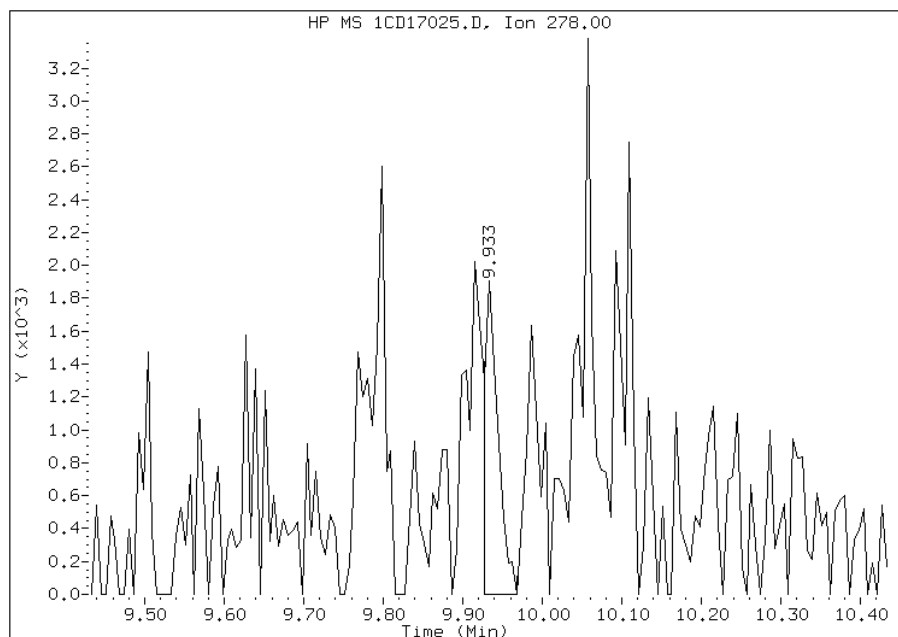
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:49  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD17025.D  
Inj. Date and Time: 17-APR-2013 17:01  
Instrument ID: BSMC5973.i  
Client ID: CV0318B-CS-SP  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/18/2013

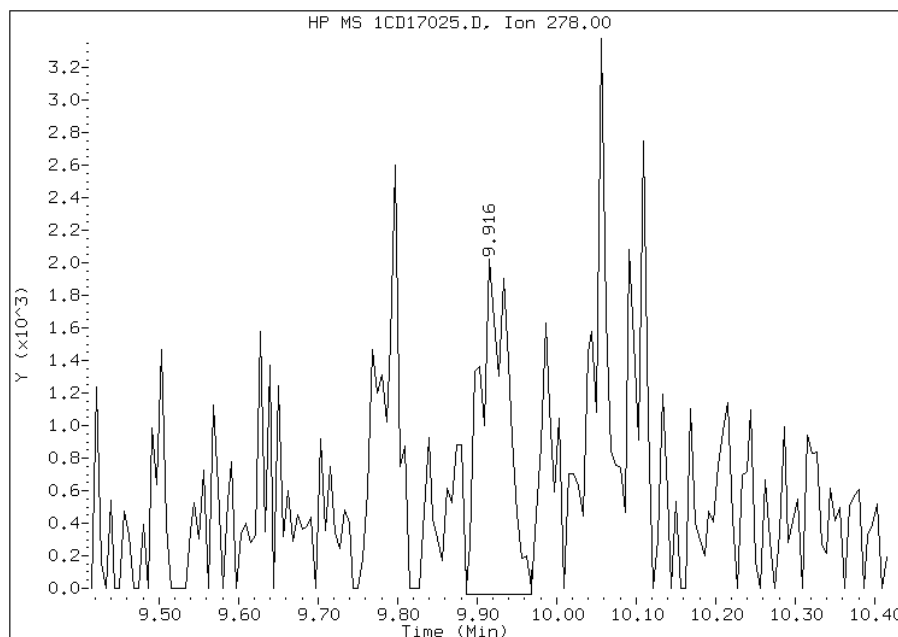
## Processing Integration Results

RT: 9.93  
Response: 2246  
Amount: 1  
Conc: 54



## Manual Integration Results

RT: 9.92  
Response: 5141  
Amount: 1  
Conc: 75



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:49  
Manual Integration Reason: Baseline Event

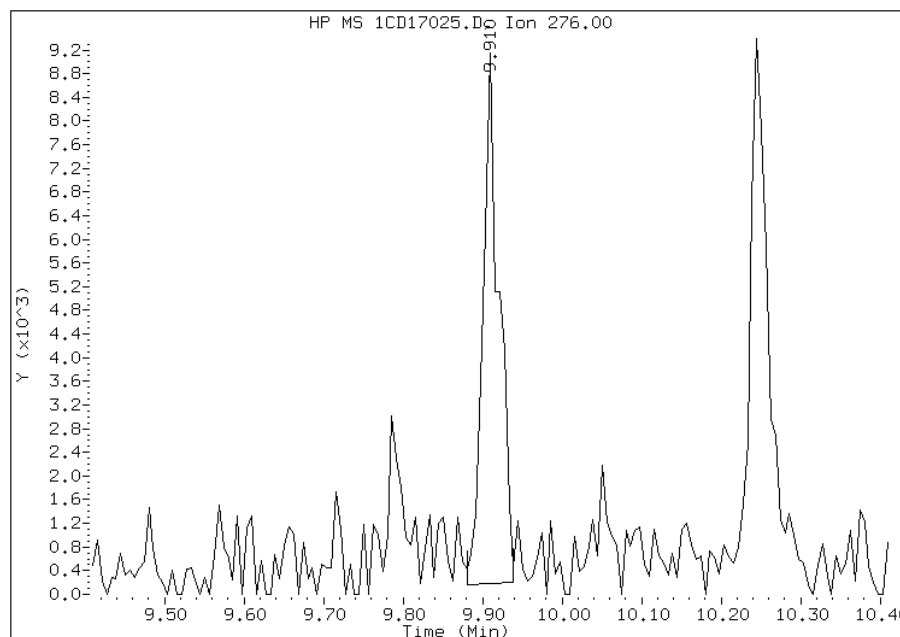


# Manual Integration Report

Data File: 1CD17025.D  
Inj. Date and Time: 17-APR-2013 17:01  
Instrument ID: BSMC5973.i  
Client ID: CV0318B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

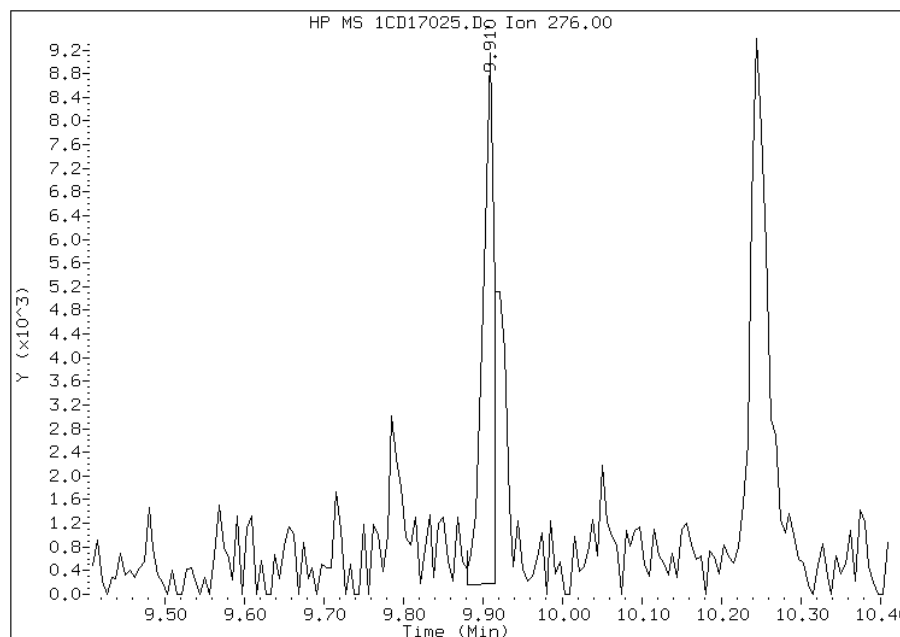
## Processing Integration Results

RT: 9.91  
Response: 12590  
Amount: 2  
Conc: 146



## Manual Integration Results

RT: 9.91  
Response: 8902  
Amount: 1  
Conc: 118



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 11:49  
Manual Integration Reason: Split Peak

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89275-1 Analy Batch No.: 136370

SDG No.: 68089275-1

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 <sup>2</sup> OR COD	#	MIN R <sup>2</sup> 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.: 680-89275-1 Analy Batch No.: 136370

SDG No.: 68089275-1

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.: 680-89275-1 Analy Batch No.: 136370

SDG No.: 68089275-1

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.: 680-89275-1 Analy Batch No.: 136370

SDG No.: 68089275-1

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-chemsrv\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-chemsrv\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

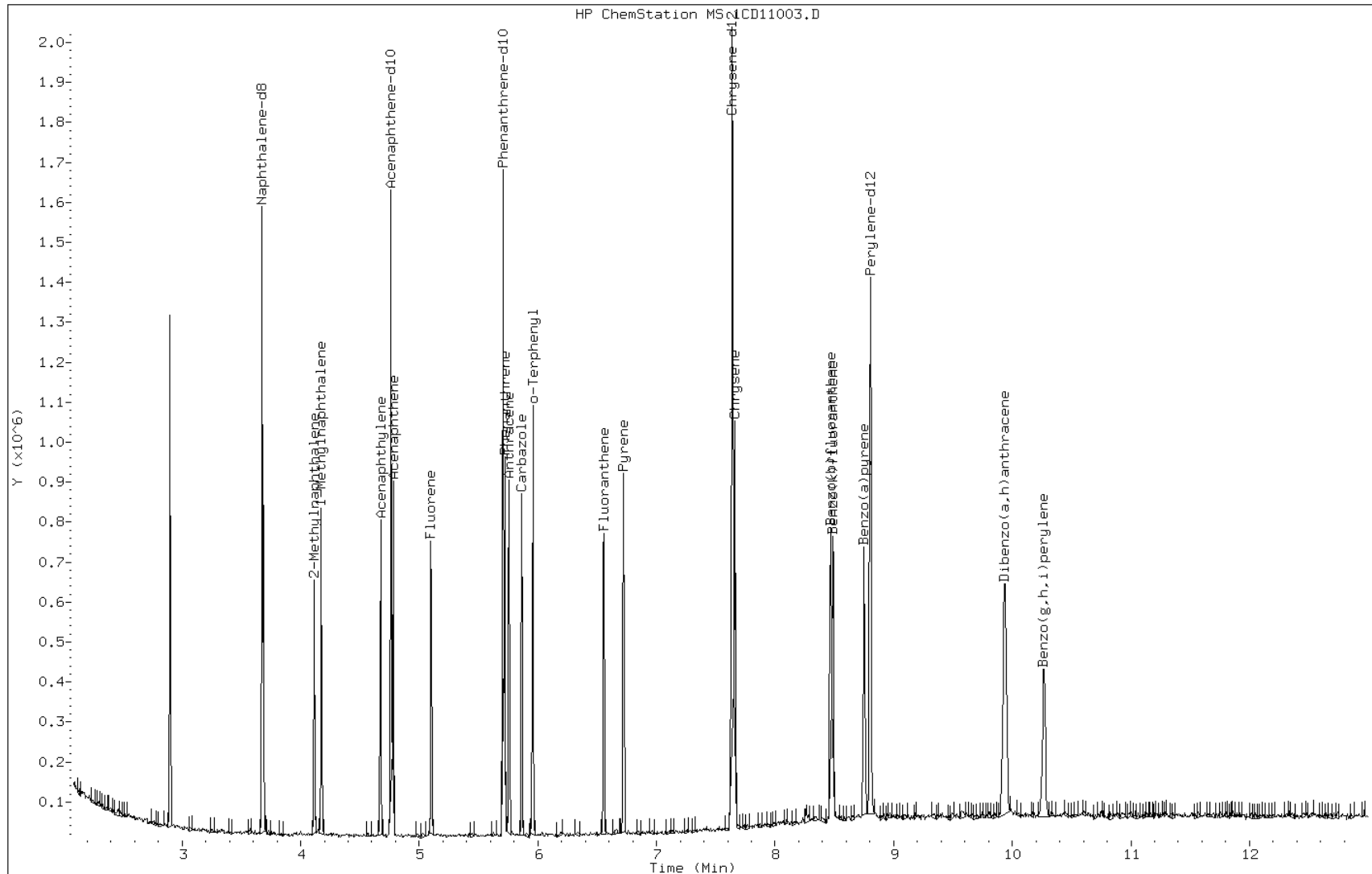
Date: 11-APR-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC

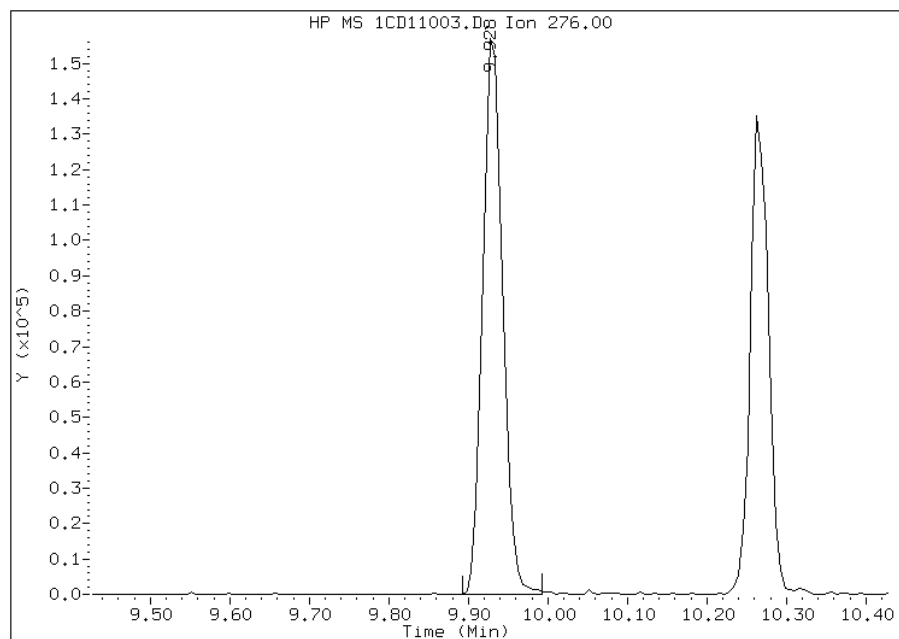


# Manual Integration Report

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

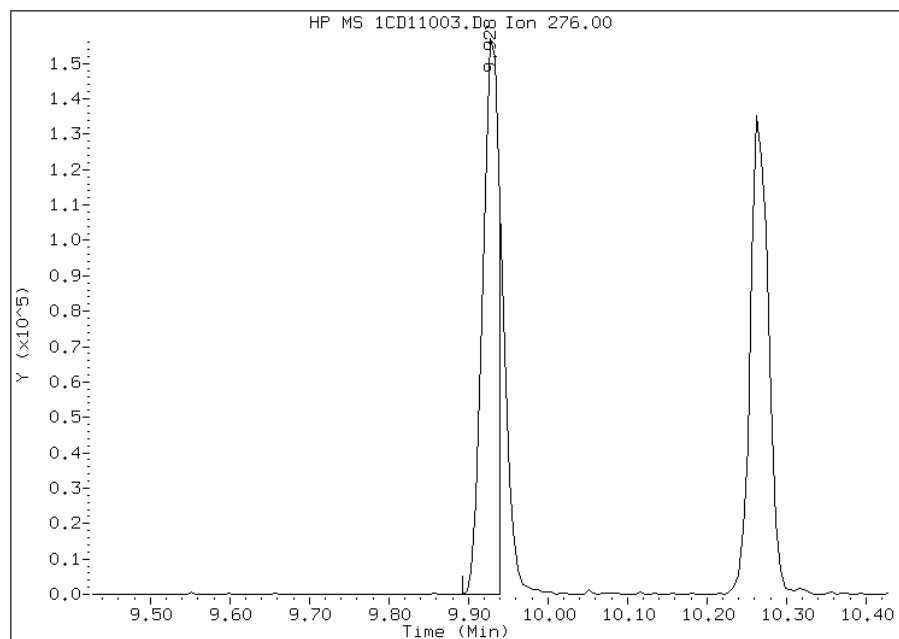
## Processing Integration Results

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

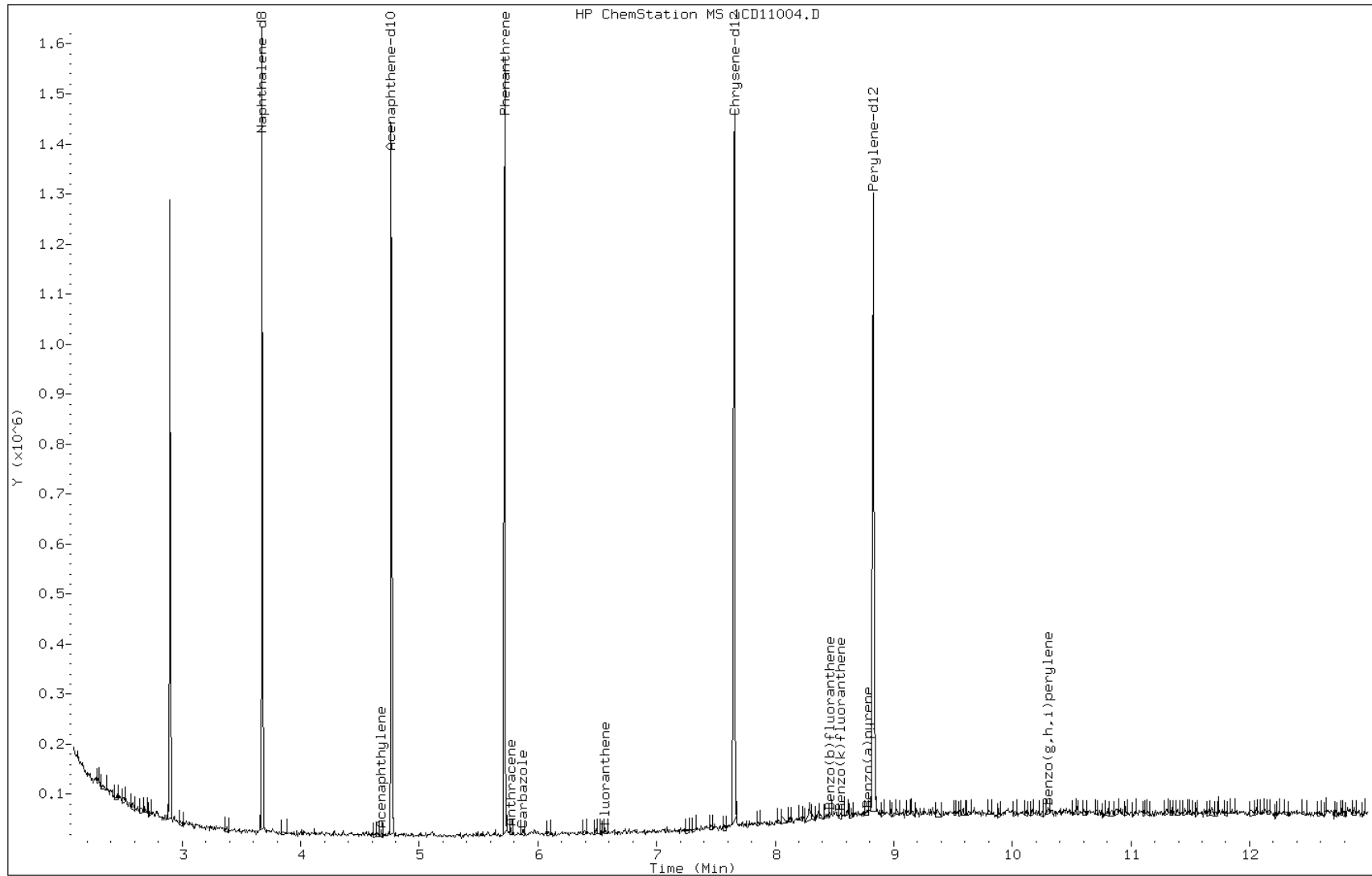
Date: 11-APR-2013 12:35

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531396

Operator: SCC

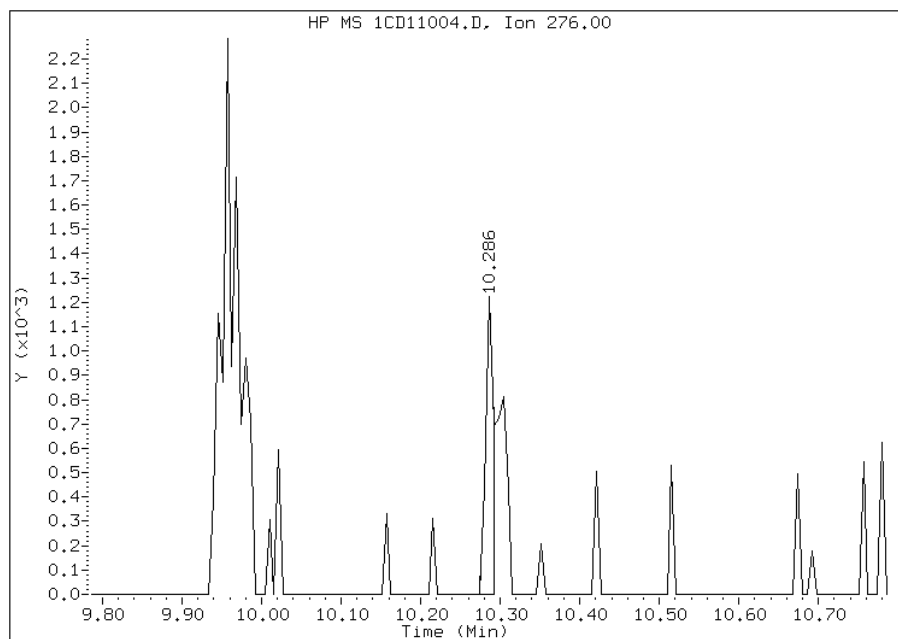


# Manual Integration Report

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

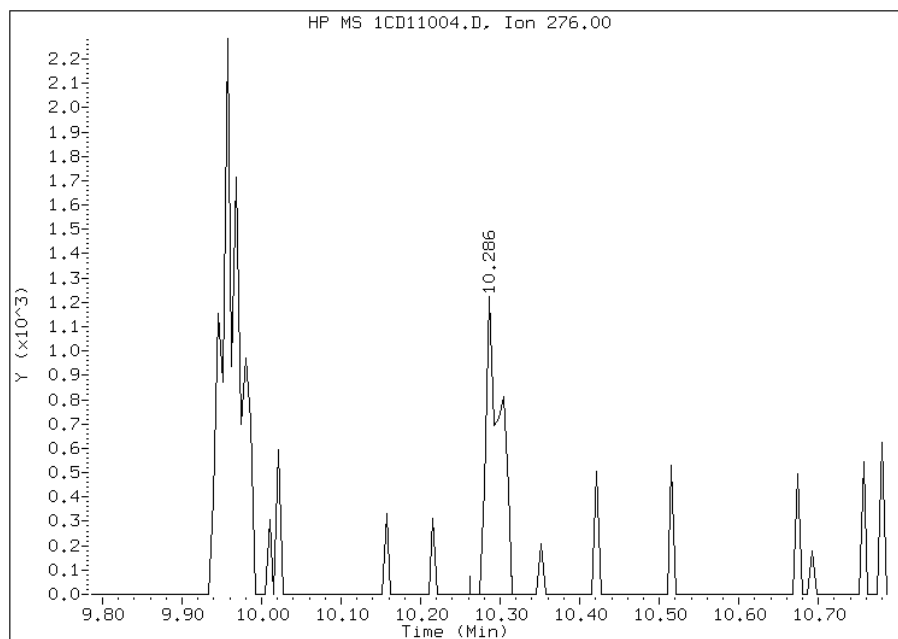
## Processing Integration Results

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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 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

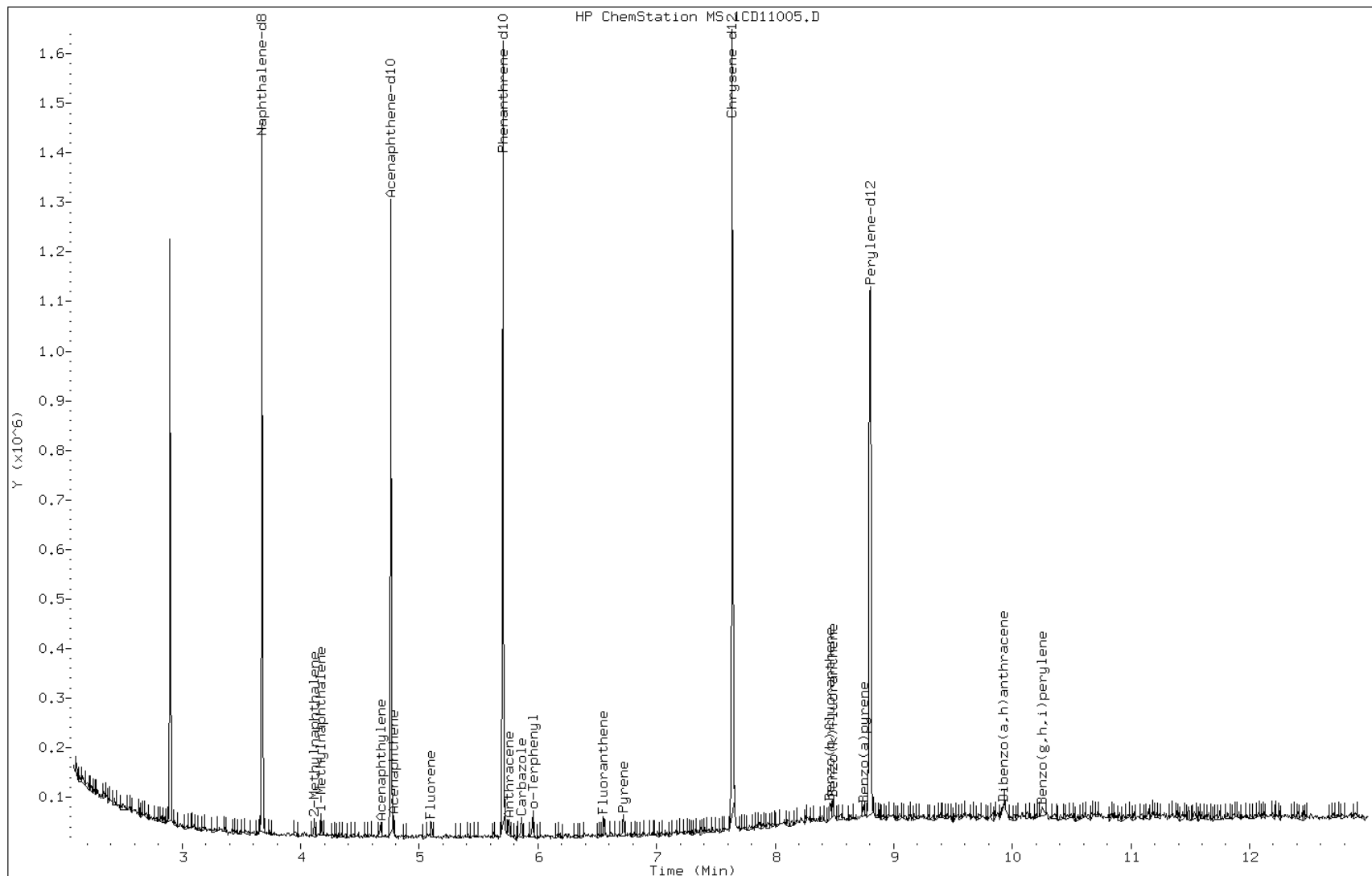
Date: 11-APR-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531398

Operator: SCC

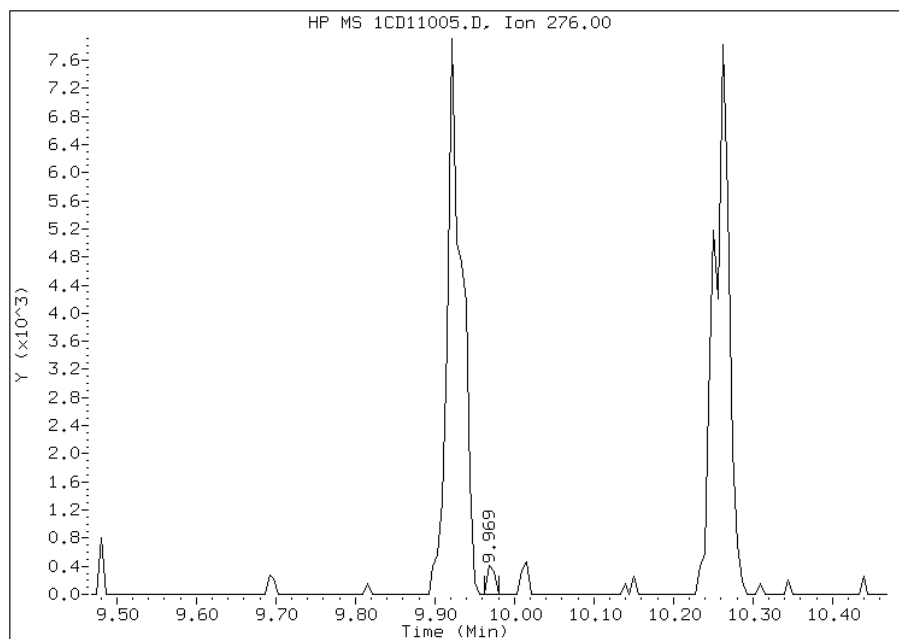


# Manual Integration Report

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

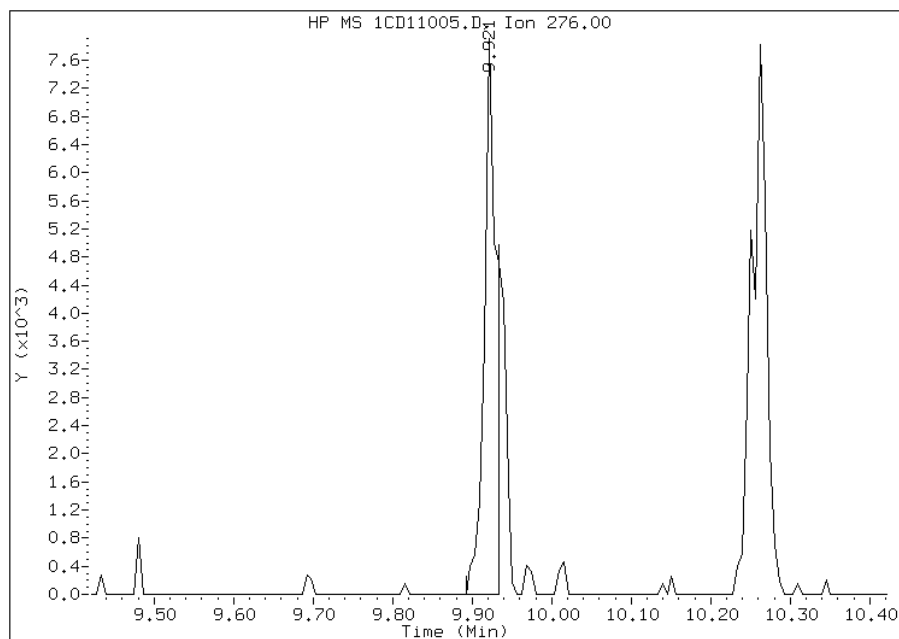
## Processing Integration Results

RT: 9.97  
Response: 260  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 9.92  
Response: 8288  
Amount: 1  
Conc: 1



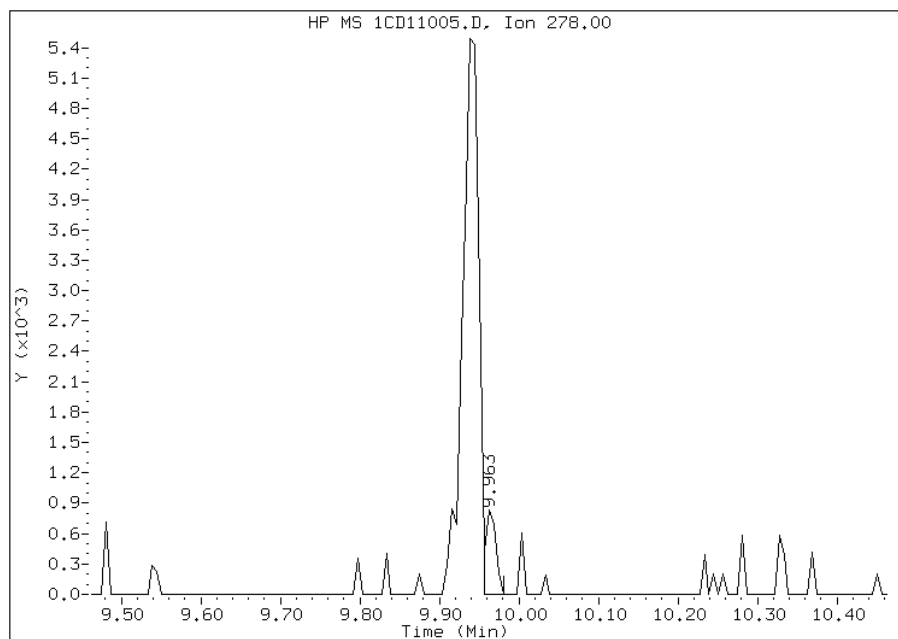
Manually Integrated By: cantins  
Modification Date: 11-Apr-2013 14:34  
Manual Integration Reason: Split Peak

# 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

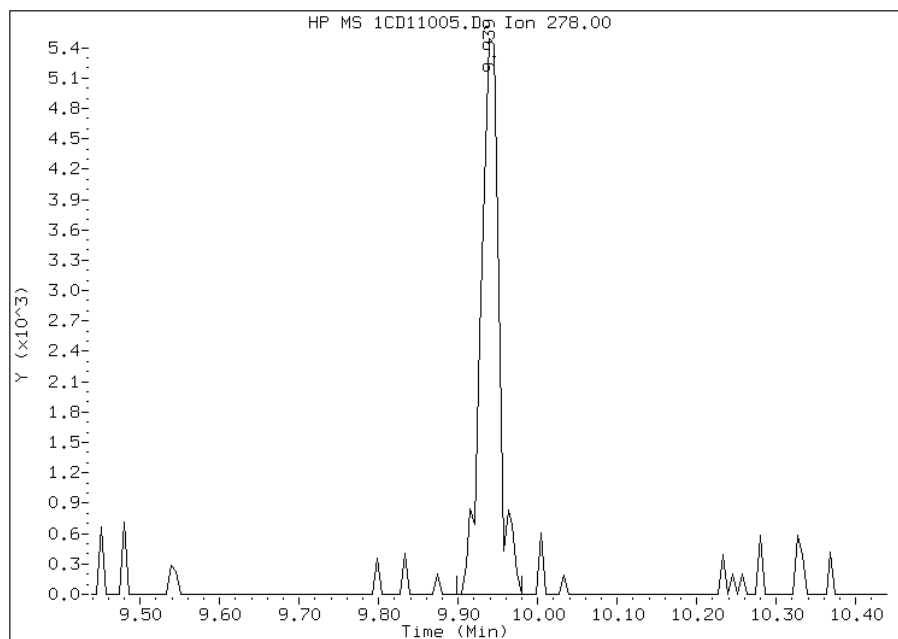
## Processing Integration Results

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

Semivolatiles 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)	ON-COL (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

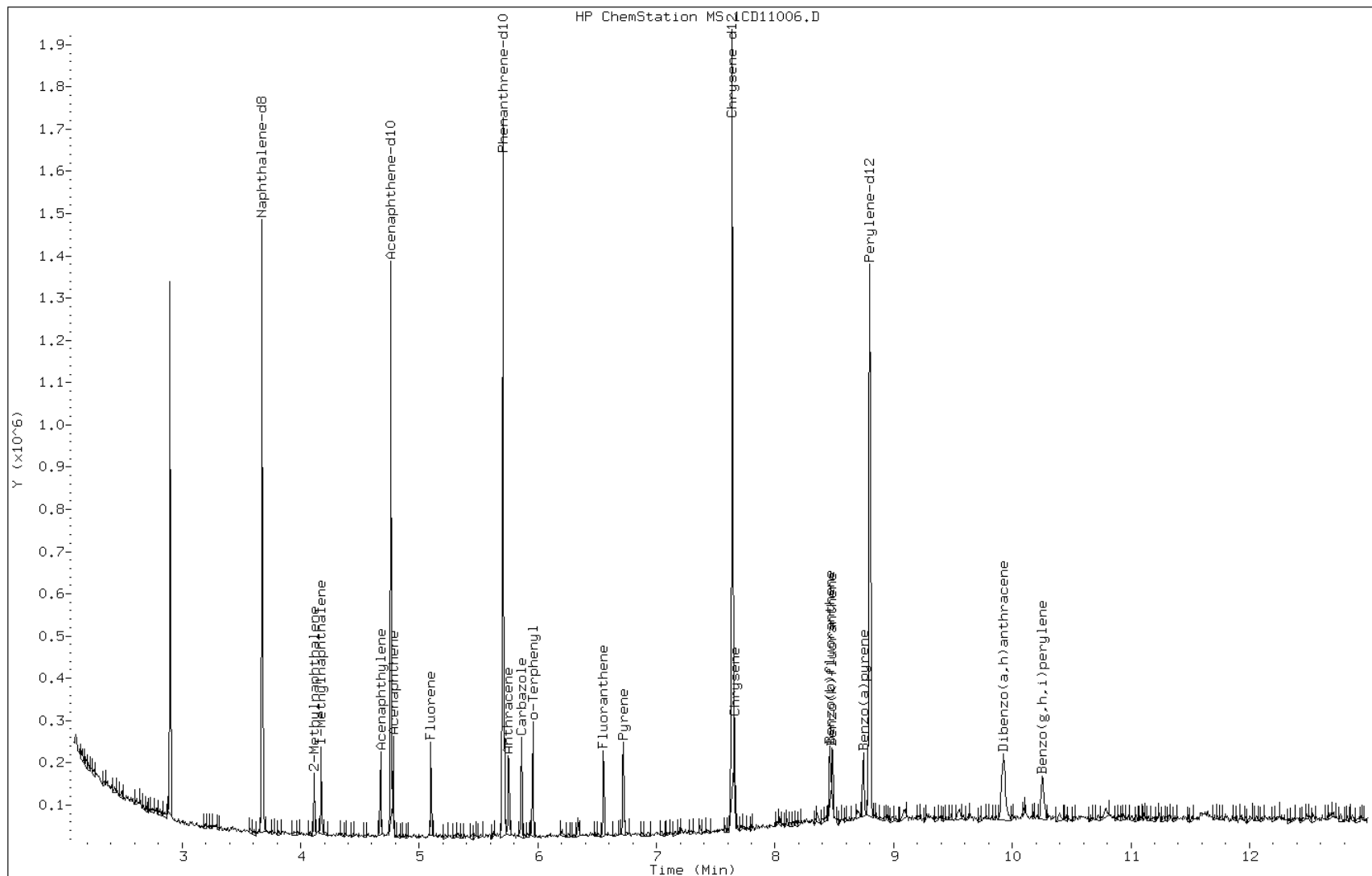
Date: 11-APR-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC

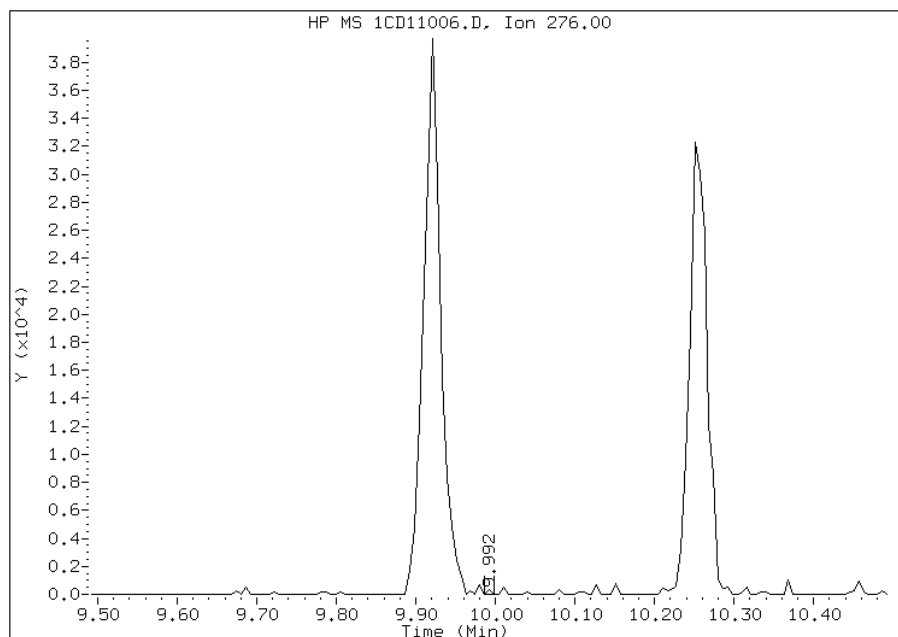


# Manual Integration Report

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

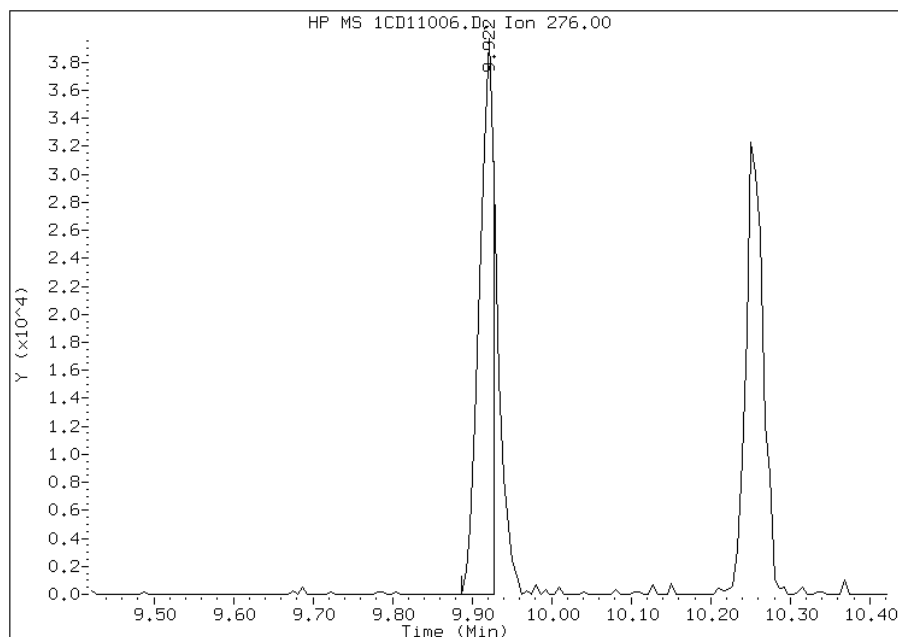
## Processing Integration Results

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

Semivolatile 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

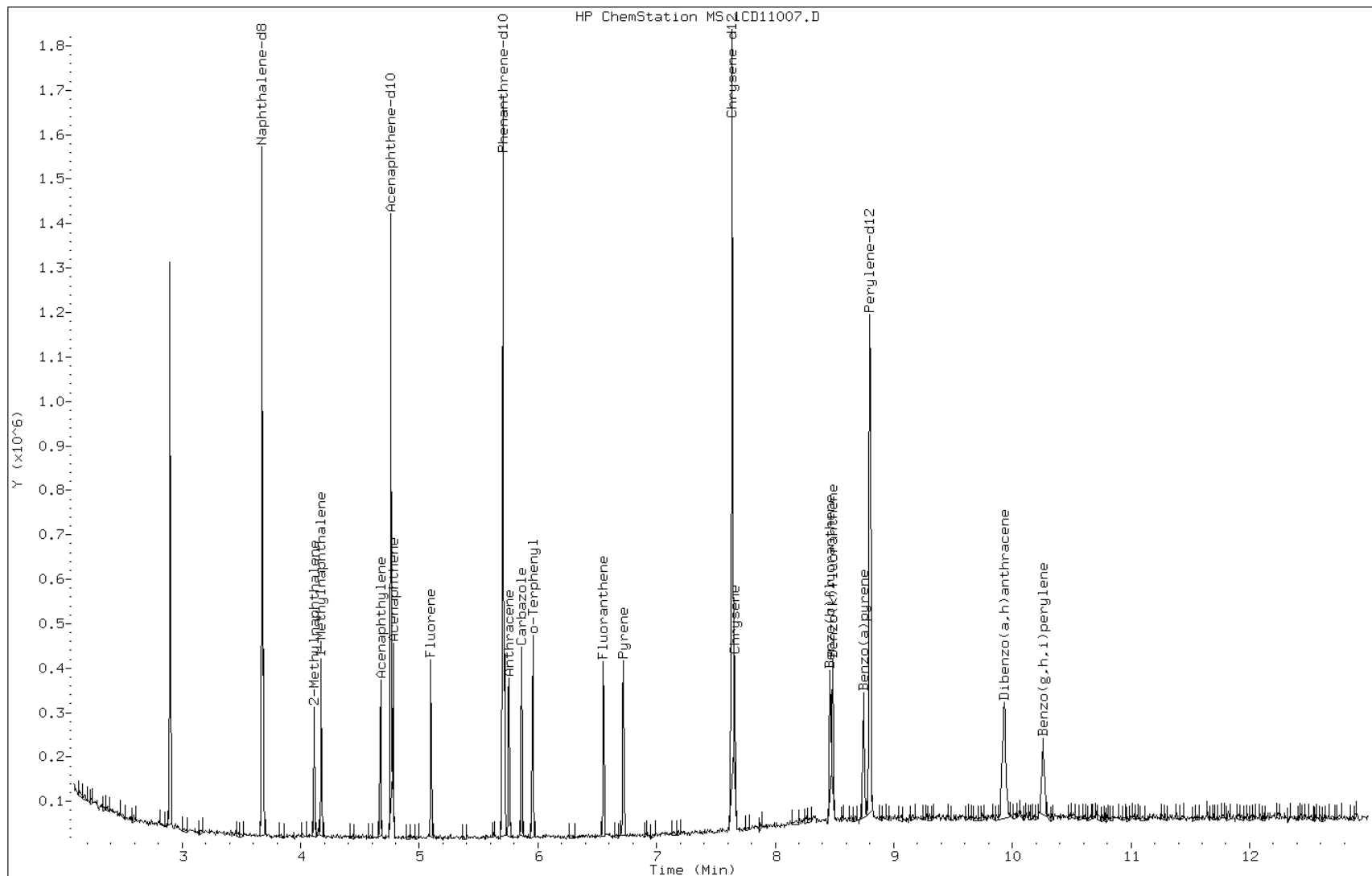
Date: 11-APR-2013 13:30

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC

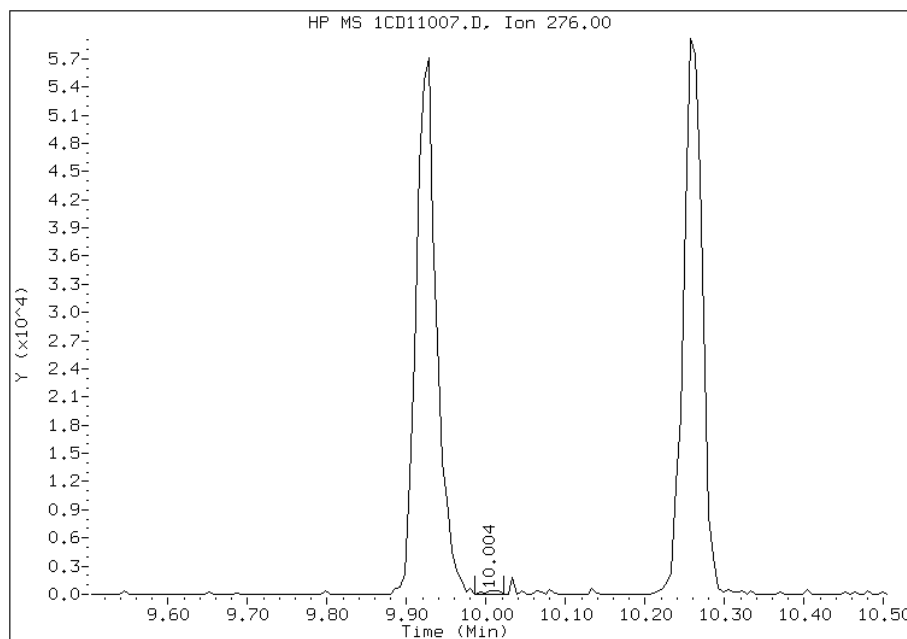


# Manual Integration Report

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

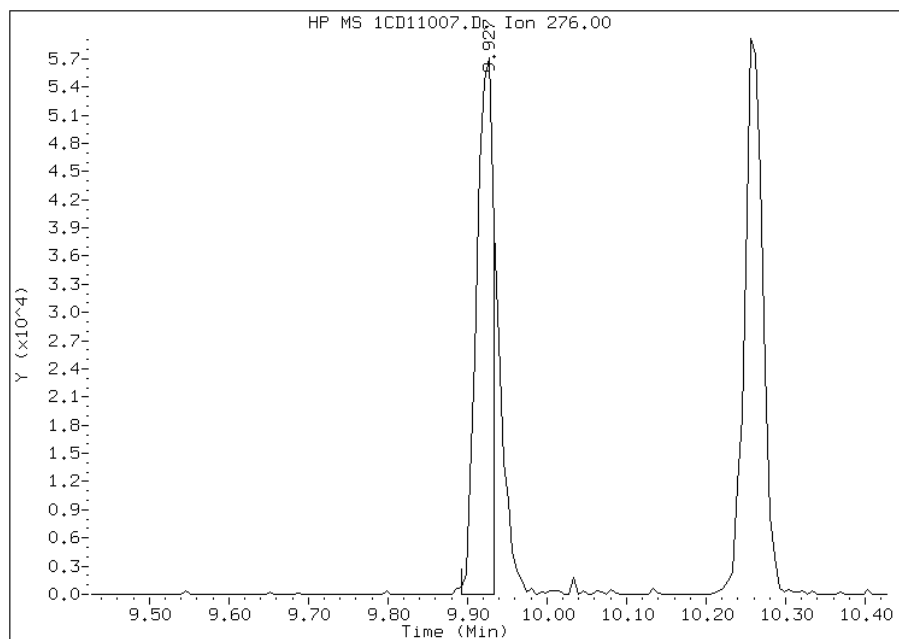
## Processing Integration Results

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

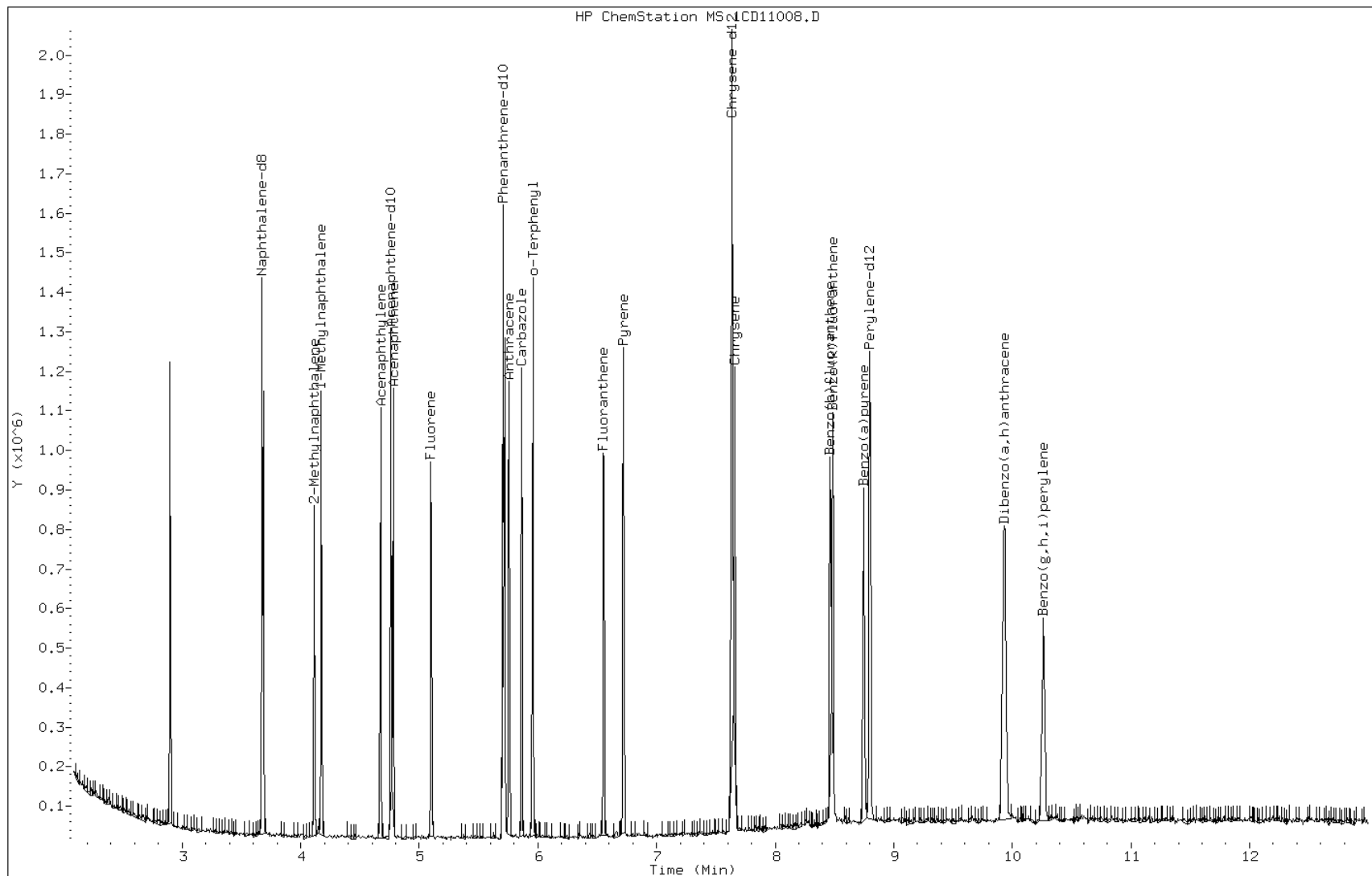
Date: 11-APR-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC

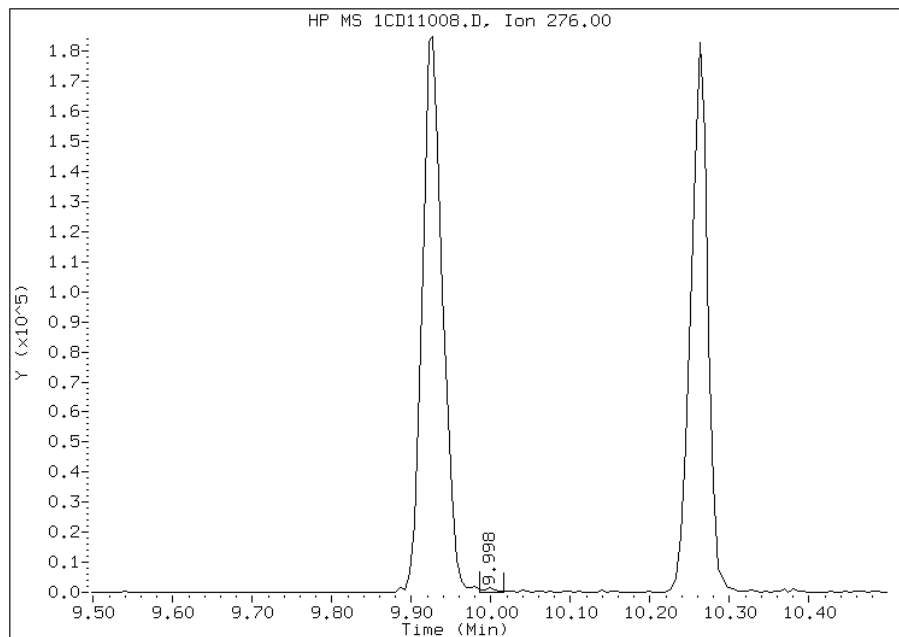


Manual Integration Report

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

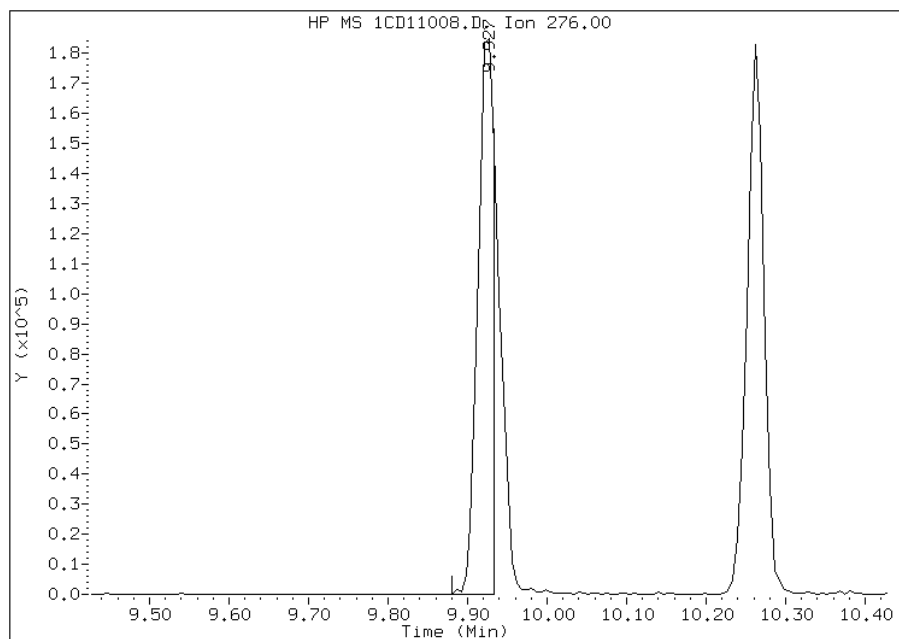
Processing Integration Results

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						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)	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

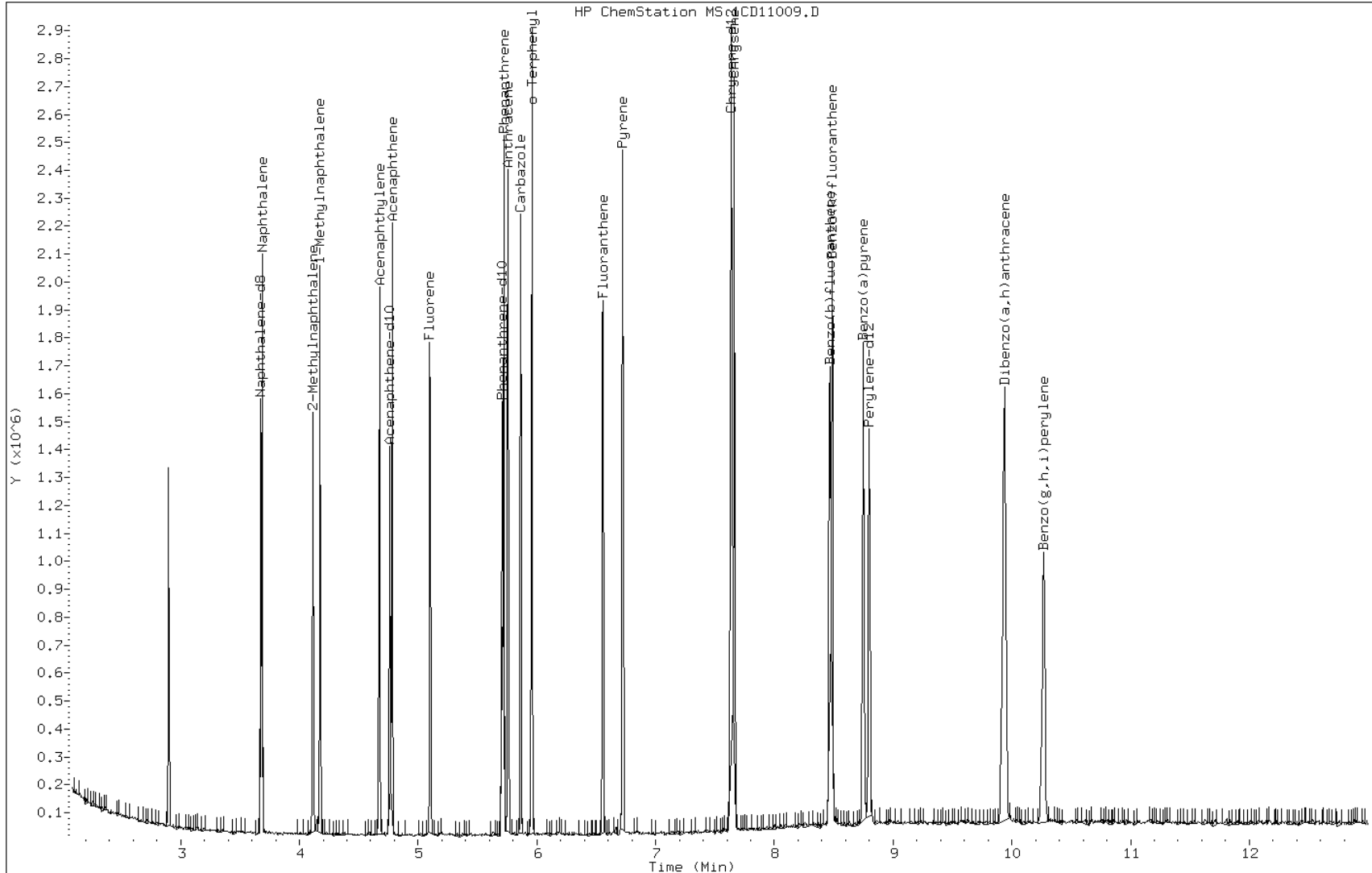
Date: 11-APR-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC

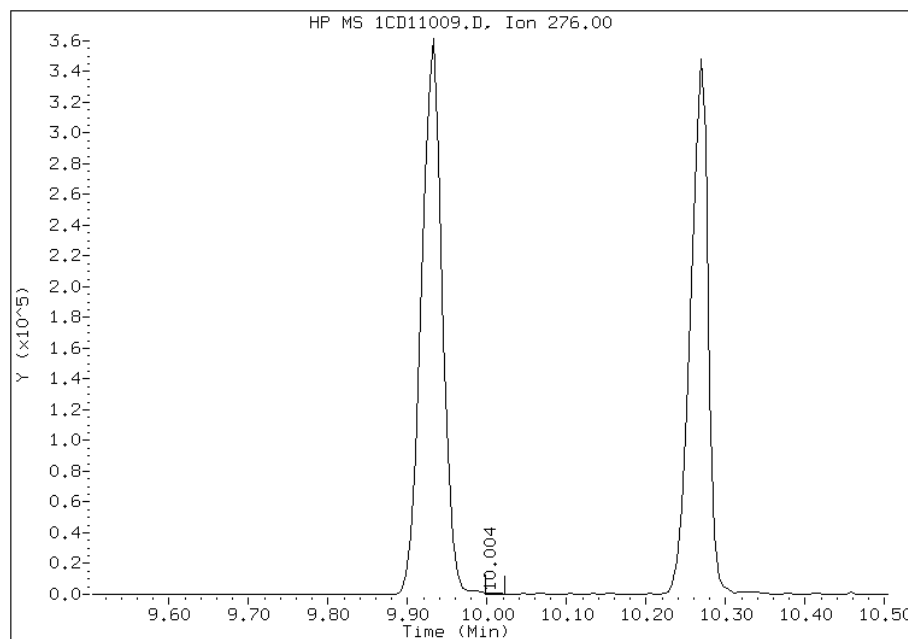


# Manual Integration Report

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

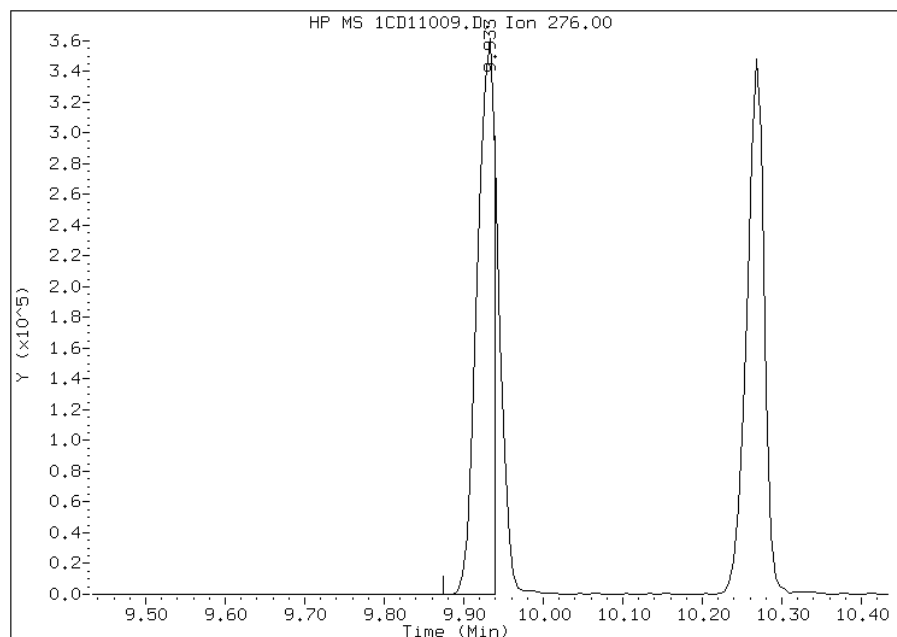
## Processing Integration Results

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.: 680-89275-1  
 SDG No.: 68089275-1  
 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

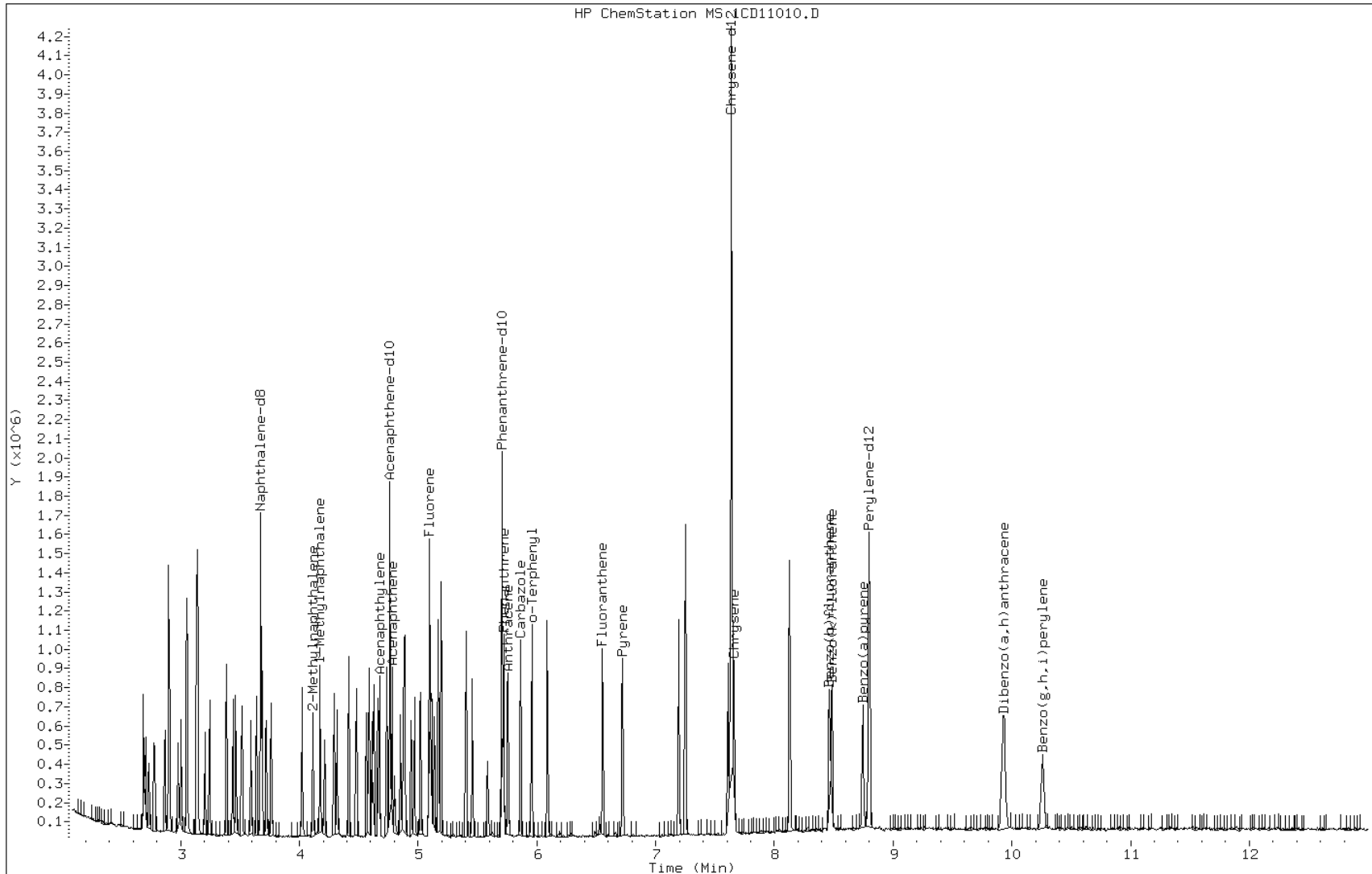
Date: 11-APR-2013 14:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

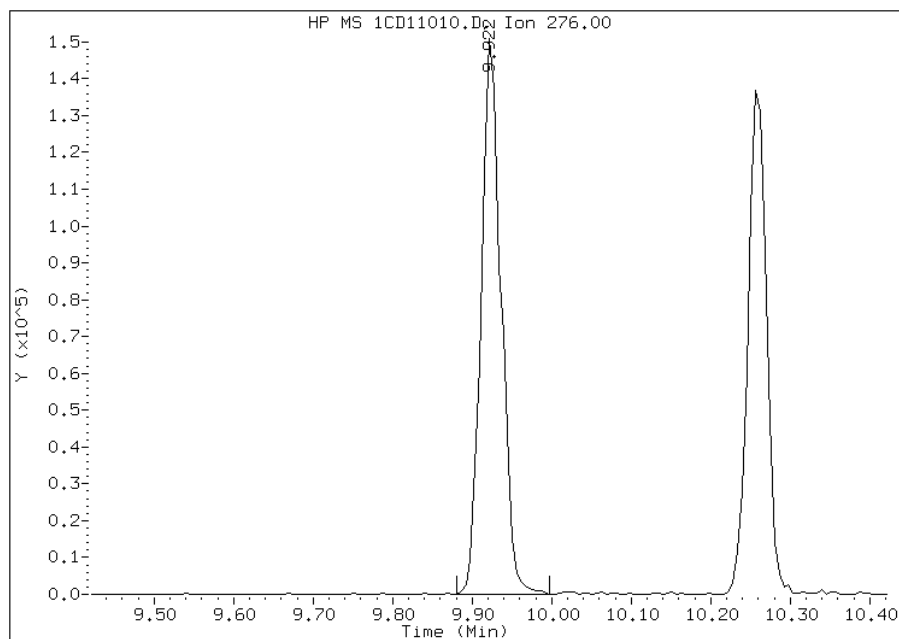


# Manual Integration Report

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

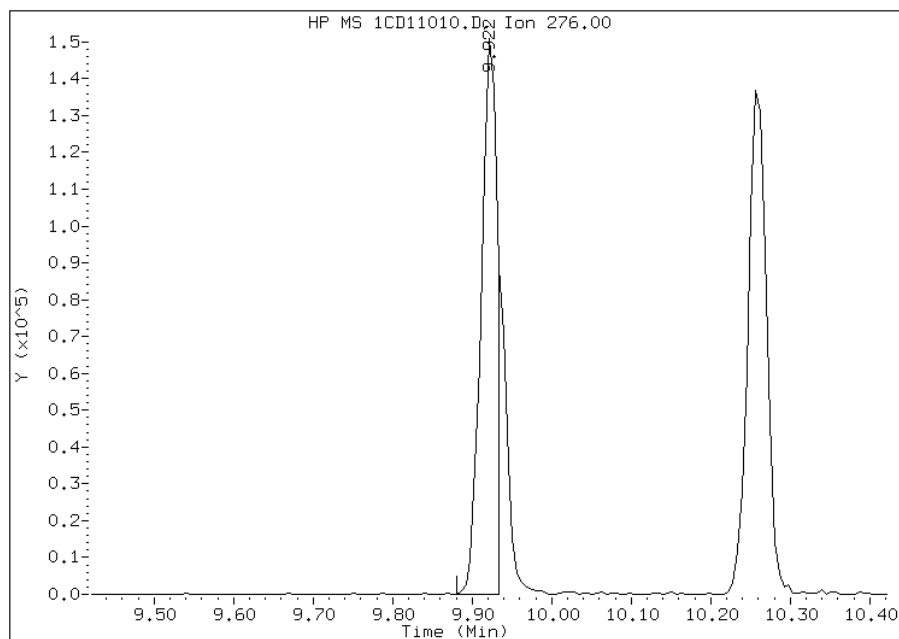
## Processing Integration Results

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.: 680-89275-1  
 SDG No.: 68089275-1  
 Lab Sample ID: CCVIS 660-136590/3 Calibration Date: 04/17/2013 10:18  
 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: 1CD17003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.014	0.0000	18800	20000	-6.2	20.0
2-Methylnaphthalene	Lin	0.6730	0.6341	0.0000	17800	20000	-11.0	20.0
1-Methylnaphthalene	Ave	0.6907	0.6481	0.0000	18800	20000	-6.2	20.0
Acenaphthylene	Ave	1.695	1.822	0.0000	21500	20000	7.5	20.0
Acenaphthene	Ave	1.021	1.062	0.0000	20800	20000	4.0	20.0
Fluorene	Ave	1.300	1.320	0.0000	20300	20000	1.5	20.0
Phenanthrene	Qua	1.293	1.092	0.0000	18700	20000	-6.5	20.0
Anthracene	Ave	1.161	1.178	0.0000	20300	20000	1.4	20.0
Carbazole	Ave	1.082	1.063	0.0000	19700	20000	-1.7	20.0
Fluoranthene	Ave	1.298	1.294	0.0000	19900	20000	-0.3	20.0
Pyrene	Ave	1.138	1.103	0.0000	19400	20000	-3.1	20.0
Benzo[a]anthracene	LinF	1.279	1.070	0.0000	18900	20000	-5.4	20.0
Chrysene	Ave	1.119	1.094	0.0000	19600	20000	-2.2	20.0
Benzo[b]fluoranthene	Ave	1.010	0.9897	0.0000	19600	20000	-2.0	20.0
Benzo[k]fluoranthene	Ave	1.143	1.195	0.0000	20900	20000	4.5	20.0
Benzo[a]pyrene	Ave	1.044	1.035	0.0000	19800	20000	-0.9	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.9567	0.0000	19100	20000	-4.6	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9337	0.0000	18700	20000	-6.6	20.0
Benzo[g,h,i]perylene	Ave	0.9789	1.008	0.0000	20600	20000	2.9	20.0
o-Terphenyl	Lin	0.5859	0.5979	0.0000	18700	20000	-6.3	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C041713.b\1CD17003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 17-APR-2013 10:18  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT	ON-COL
								(ug/ml)	(ug/ml)
* 1 Naphthalene-d8			136	3.663	3.663	(1.000)	240478	40.0000	
* 6 Acenaphthene-d10			164	4.751	4.751	(1.000)	150375	40.0000	
* 10 Phenanthrene-d10			188	5.698	5.698	(1.000)	295718	40.0000	
\$ 14 o-Terphenyl			230	5.945	5.945	(1.043)	88400	20.0000	18.7416
* 18 Chrysene-d12			240	7.627	7.627	(1.000)	362821	40.0000	
* 23 Perylene-d12			264	8.780	8.780	(1.000)	379421	40.0000	
2 Naphthalene			128	3.680	3.680	(1.005)	121937	20.0000	18.7581
3 2-Methylnaphthalene			142	4.104	4.104	(1.120)	76239	20.0000	17.8090
4 1-Methylnaphthalene			142	4.168	4.168	(1.138)	77930	20.0000	18.7680
5 Acenaphthylene			152	4.663	4.663	(0.981)	136997	20.0000	21.5000
7 Acenaphthene			154	4.774	4.774	(1.005)	79835	20.0000	20.7903
9 Fluorene			166	5.092	5.092	(1.072)	99238	20.0000	20.3078
11 Phenanthrene			178	5.709	5.709	(1.002)	161496	20.0000	18.6969
12 Anthracene			178	5.745	5.745	(1.008)	174149	20.0000	20.2852
13 Carbazole			167	5.851	5.851	(1.027)	157140	20.0000	19.6531
15 Fluoranthene			202	6.545	6.545	(1.149)	191339	20.0000	19.9453
16 Pyrene			202	6.709	6.709	(0.880)	200123	20.0000	19.3882
17 Benzo(a)anthracene			228	7.621	7.621	(0.999)	194081	20.0000	18.9165
19 Chrysene			228	7.651	7.651	(1.003)	198442	20.0000	19.5517
20 Benzo(b)fluoranthene			252	8.450	8.450	(0.962)	187748	20.0000	19.5913
21 Benzo(k)fluoranthene			252	8.468	8.468	(0.964)	226682	20.0000	20.9040
22 Benzo(a)pyrene			252	8.733	8.733	(0.995)	196362	20.0000	19.8225
24 Indeno(1,2,3-cd)pyrene			276	9.903	9.903	(1.128)	181496	20.0000	19.0813(M)
25 Dibenzo(a,h)anthracene			278	9.915	9.915	(1.129)	177138	20.0000	18.6789
26 Benzo(g,h,i)perylene			276	10.233	10.233	(1.165)	191169	20.0000	20.5891

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD17003.D

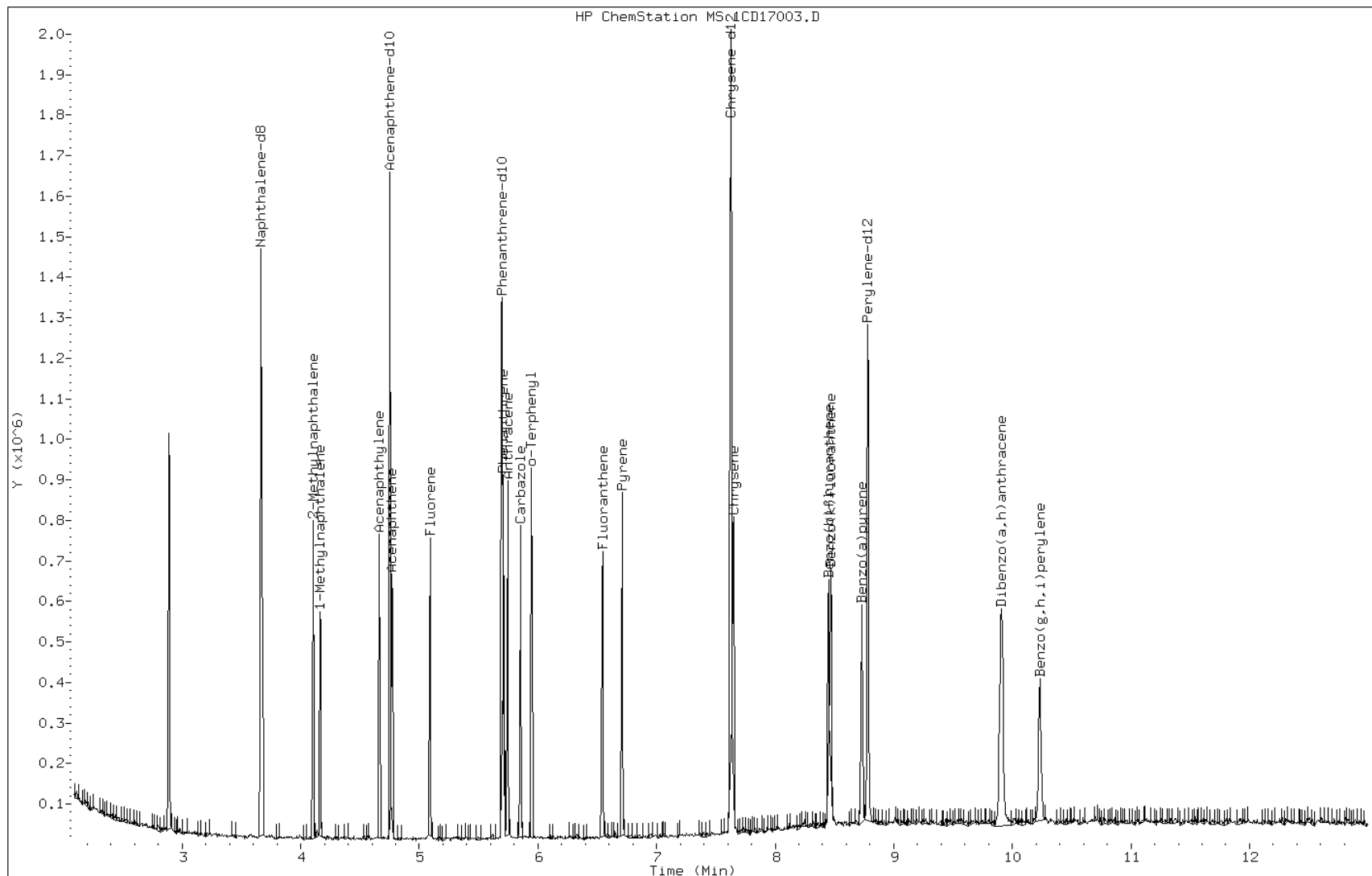
Date: 17-APR-2013 10:18

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

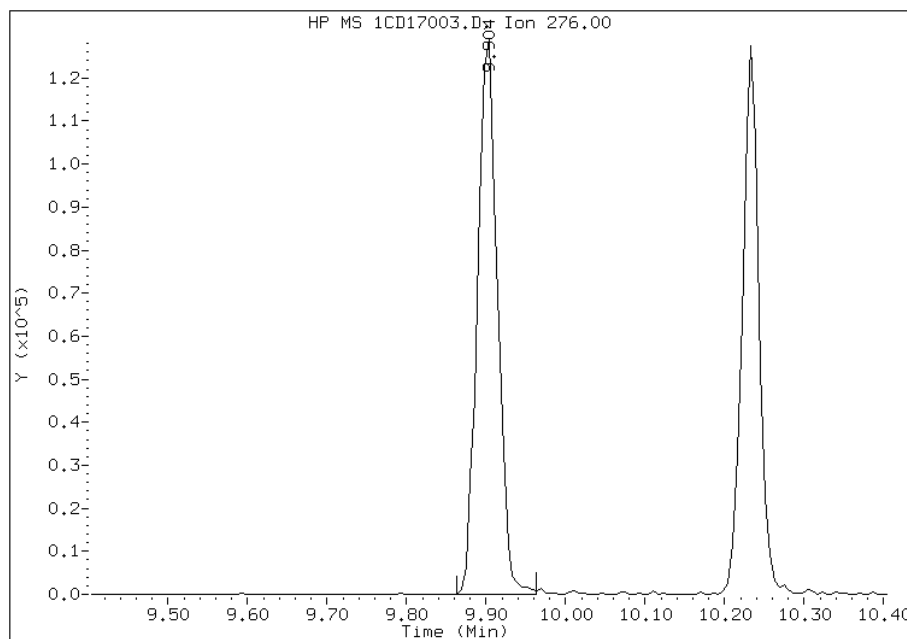


# Manual Integration Report

Data File: 1CD17003.D  
Inj. Date and Time: 17-APR-2013 10:18  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

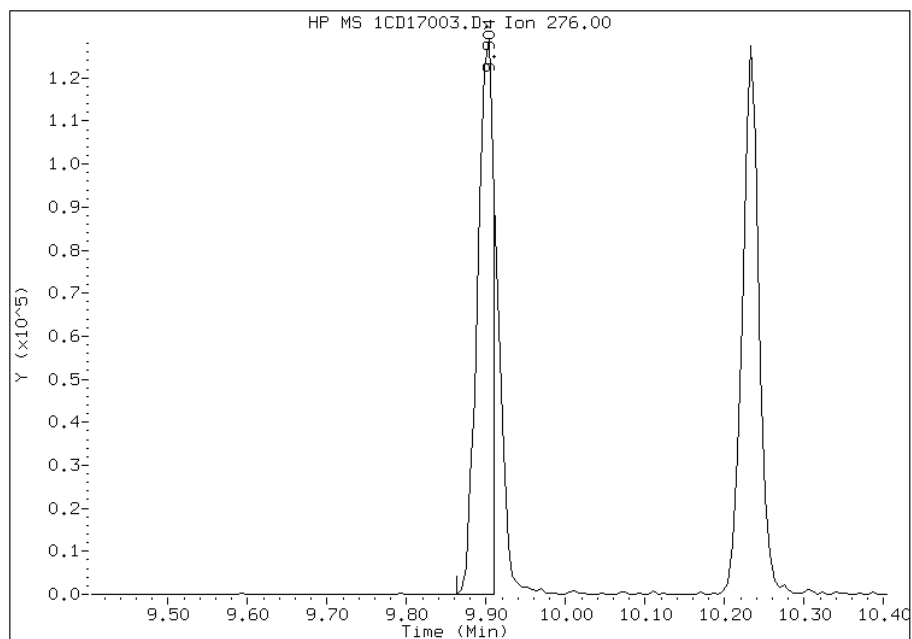
## Processing Integration Results

RT: 9.90  
Response: 223641  
Amount: 23  
Conc: 23



## Manual Integration Results

RT: 9.90  
Response: 181496  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 10:33  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 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/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.029	0.0000	2000	20.0	-4.8	20.0
2-Methylnaphthalene	Lin	0.6730	0.6406	0.0000	2000	20.0	-10.1	20.0
1-Methylnaphthalene	Ave	0.6907	0.6354	0.0000	2000	20.0	-8.0	20.0
Acenaphthylene	Ave	1.695	1.828	0.0000	1000	20.0	7.8	20.0
Acenaphthene	Ave	1.021	1.053	0.0000	2000	20.0	3.1	20.0
Fluorene	Ave	1.300	1.344	0.0000	2000	20.0	3.4	20.0
Phenanthrene	Qua	1.293	1.171	0.0000	500	20.0	0.3	20.0
Anthracene	Ave	1.161	1.113	0.0000	200	20.0	-4.2	20.0
Carbazole	Ave	1.082	1.063	0.0000	1000	20.0	-1.7	20.0
Fluoranthene	Ave	1.298	1.310	0.0000	500	20.0	1.0	20.0
Pyrene	Ave	1.138	1.108	0.0000	500	20.0	-2.6	20.0
Benzo[a]anthracene	LinF	1.279	1.097	0.0000	200	20.0	-3.0	20.0
Chrysene	Ave	1.119	1.069	0.0000	200	20.0	-4.5	20.0
Benzo[b]fluoranthene	Ave	1.010	1.048	0.0000	200	20.0	3.7	20.0
Benzo[k]fluoranthene	Ave	1.143	1.092	0.0000	200	20.0	-4.5	20.0
Benzo[a]pyrene	Ave	1.044	1.061	0.0000	200	20.0	1.6	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8961	0.0000	200	20.0	-10.4	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9062	0.0000	200	20.0	-9.3	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9357	0.0000	500	20.0	-4.4	20.0
o-Terphenyl	Lin	0.5859	0.6107	0.0000	19.1	20.0	-4.4	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\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-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: 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

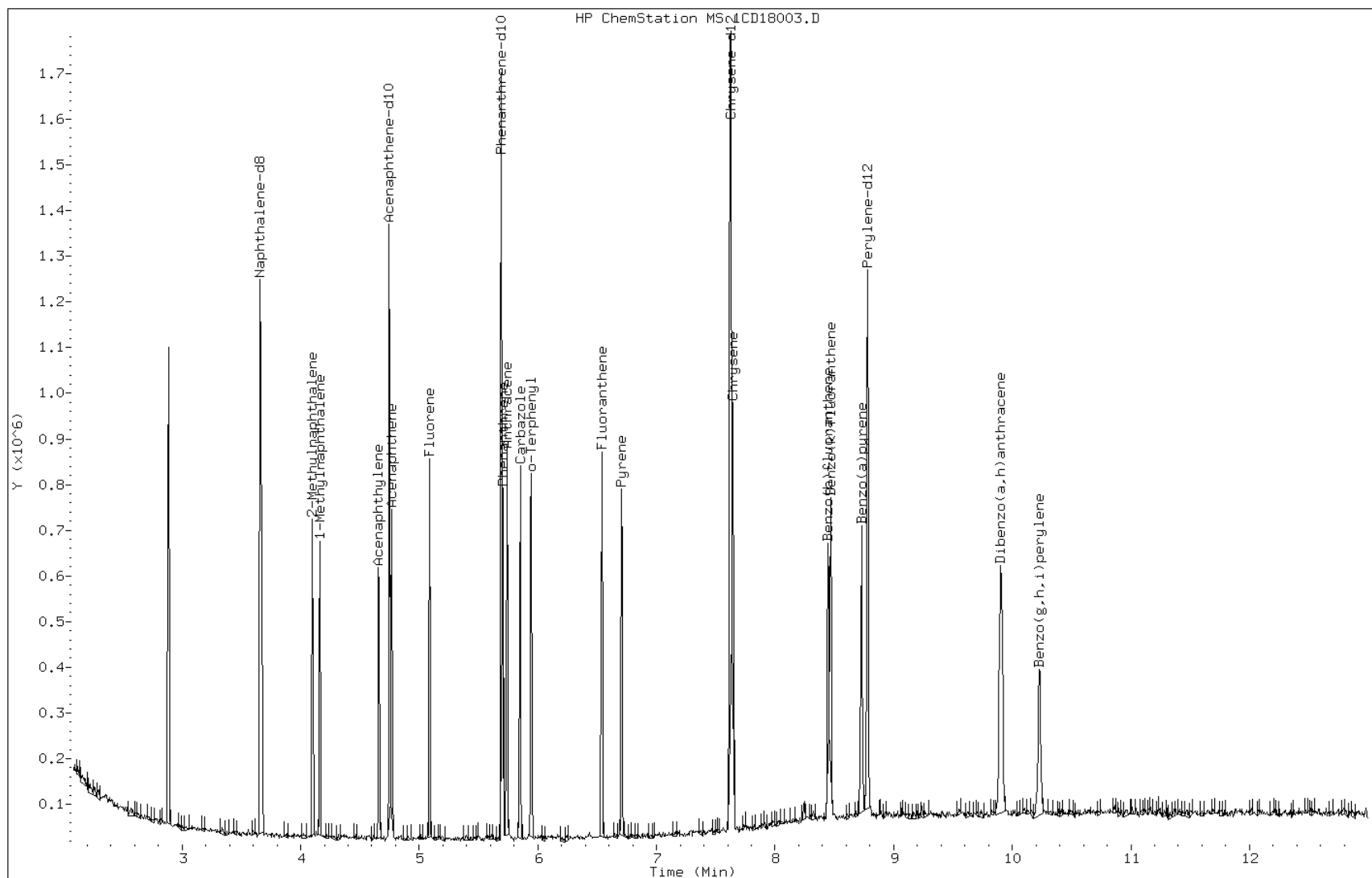
Date: 18-APR-2013 12:01

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

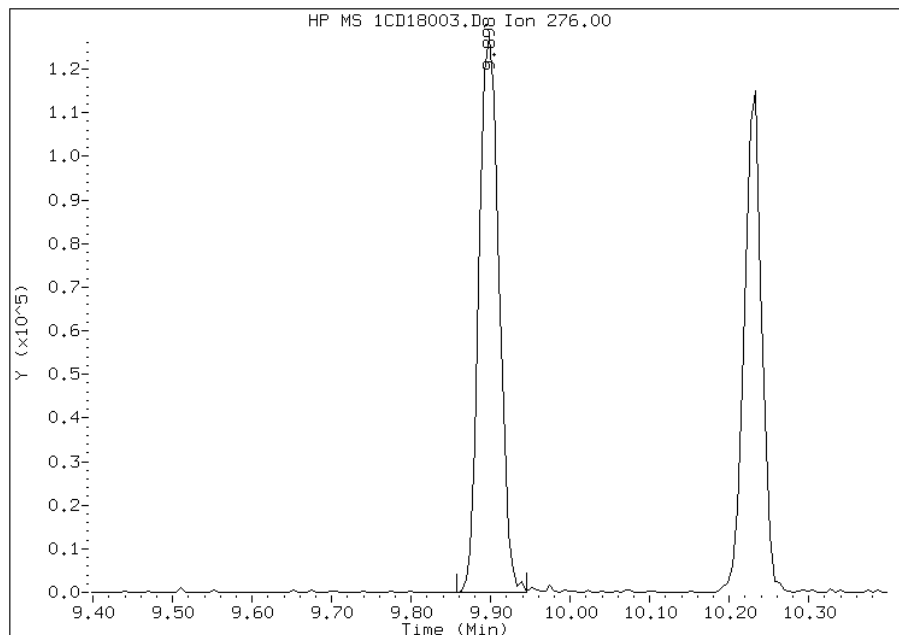


# Manual Integration Report

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

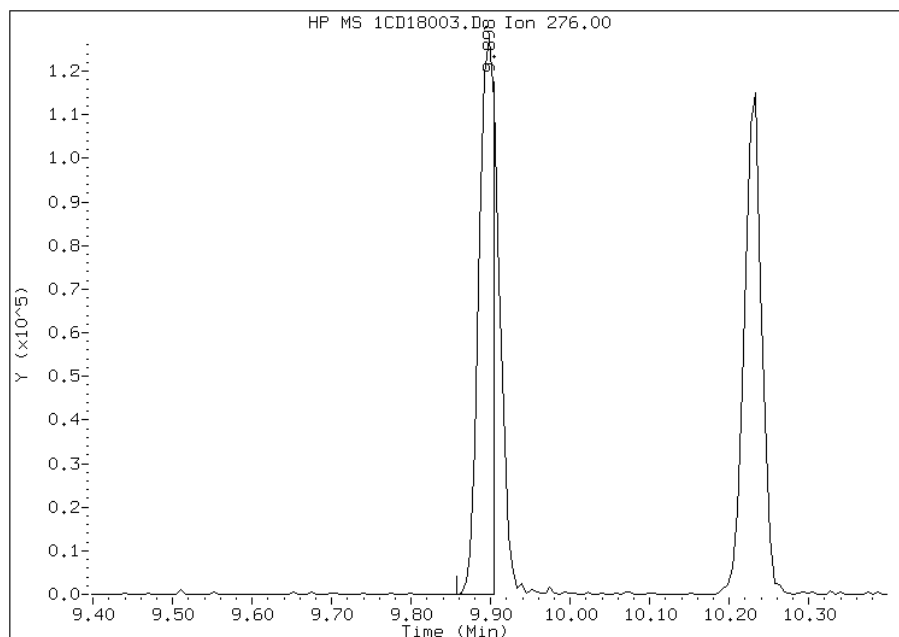
## Processing Integration Results

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



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

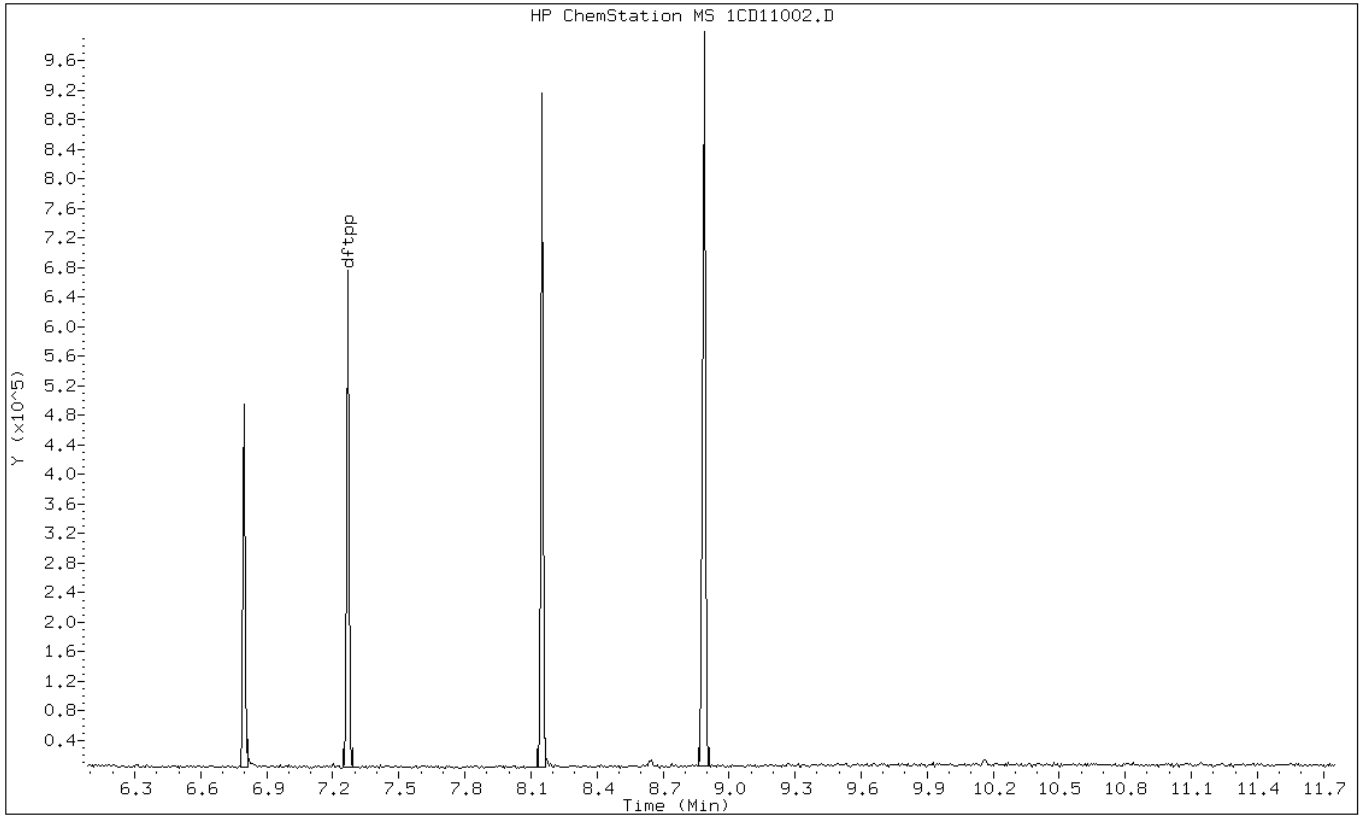
Date: 11-APR-2013 11:38

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD11002.D

Date: 11-APR-2013 11:38

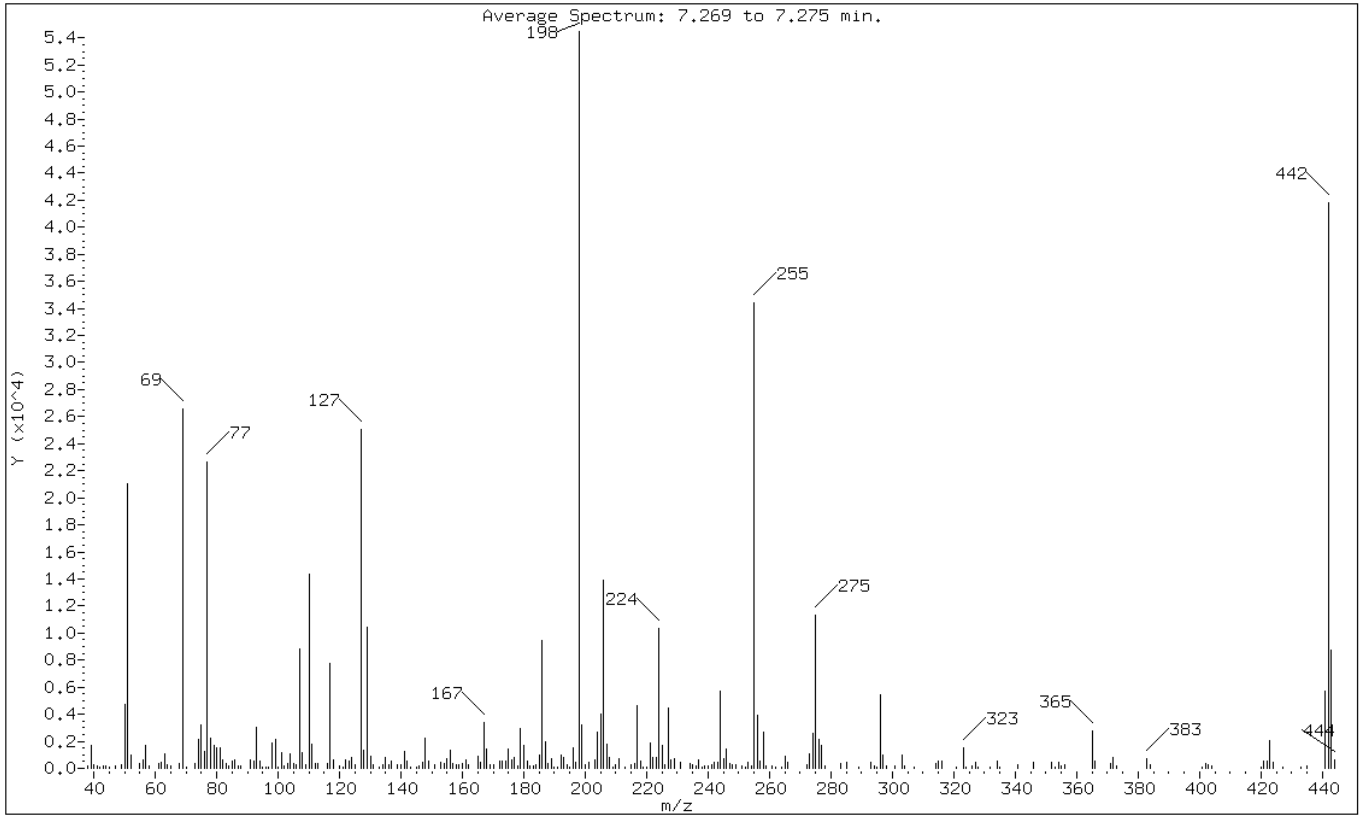
Client ID: DFTPP

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\1C041713.b\1CD17002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 17-APR-2013 10:01  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.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	52272			50.00-	0.00	100.00
7.257	7.469	-0.212	51	30464			10.00-	80.00	58.28
7.257	7.469	-0.212	68	672			0.00-	2.00	1.98
7.257	7.469	-0.212	69	33984			0.00-	0.00	65.01
7.257	7.469	-0.212	70	293			0.00-	2.00	0.86
7.257	7.469	-0.212	127	28952			10.00-	80.00	55.39
7.257	7.469	-0.212	197	0	0.0	0.0	0.00-	2.00	0.00
7.257	7.469	-0.212	442	27616			50.00-	0.00	52.83
7.257	7.469	-0.212	199	3531			5.00-	9.00	6.76
7.257	7.469	-0.212	275	12574			10.00-	60.00	24.05
7.257	7.469	-0.212	365	2188			1.00-	0.00	4.19
7.257	7.469	-0.212	441	3725			0.01-	99.99	57.44
7.257	7.469	-0.212	443	6485			15.00-	24.00	23.48

Data File: 1CD17002.D

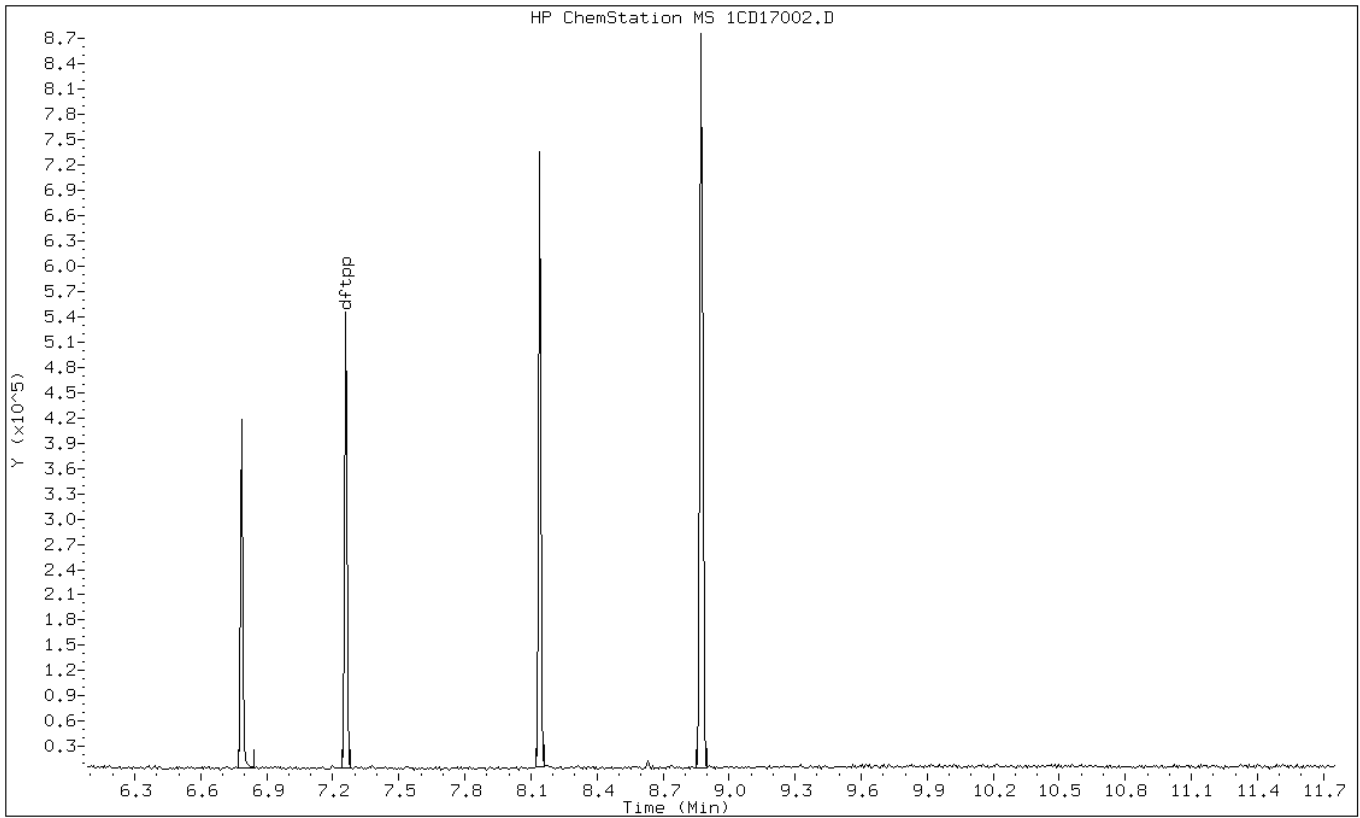
Date: 17-APR-2013 10:01

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD17002.D

Date: 17-APR-2013 10:01

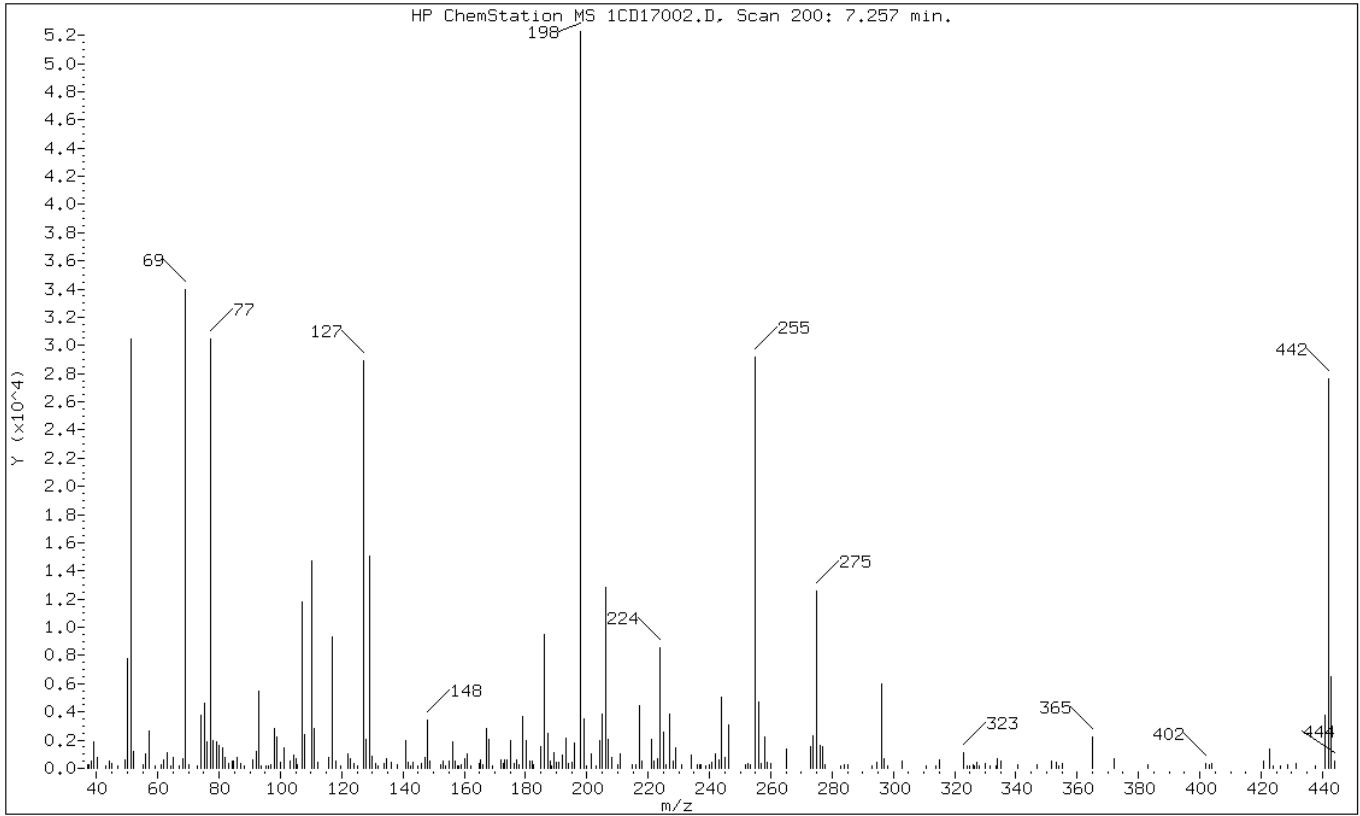
Client ID: DFTPP

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	58.28
68	Less than 2.00% of mass 69	1.29 ( 1.98)
69	Mass 69 relative abundance	65.01
70	Less than 2.00% of mass 69	0.56 ( 0.86)
127	10.00 - 80.00% of mass 198	55.39
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	52.83
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 60.00% of mass 198	24.05
365	Greater than 1.00% of mass 198	4.19
441	Present, but less than mass 443	7.13
443	15.00 - 24.00% of mass 442	12.41 ( 23.48)



Data File: 1CD17002.D

Date: 17-APR-2013 10:01

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17002.D

Spectrum: HP ChemStation MS 1CD17002.D, Scan 200: 7.257 min.

Location of Maximum: 198.00

Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	258	110.10	14694	182.00	555	258.00	2252
37.50	230	111.00	2797	182.60	298	259.00	419
38.20	529	112.00	392	185.10	1550	259.90	348
39.10	1905	115.90	809	186.00	9504	265.10	1361
40.10	776	117.10	9367	187.10	2492	272.90	1517
42.90	180	118.10	484	188.00	547	273.90	2279
44.00	542	119.70	189	188.50	197	275.00	12574
45.00	314	122.20	1015	189.10	1095	276.10	1650
46.80	202	122.80	704	190.00	391	276.80	1502
49.10	571	124.00	348	190.80	464	277.70	247
50.10	7791	125.20	203	192.00	923	282.70	164
51.10	30464	127.00	28952	193.10	2120	284.00	252
52.10	1210	128.00	2071	194.00	356	285.10	246
55.20	286	129.10	15076	195.10	432	293.00	186
56.00	998	129.90	821	196.10	1827	294.70	421
57.00	2693	131.10	302	198.00	52272	296.00	5948
59.00	166	131.80	179	199.00	3531	296.90	689
61.00	265	134.00	319	199.80	205	298.00	176
61.90	618	134.70	680	201.40	1056	302.90	480
63.00	1093	136.00	397	203.00	166	310.70	163
64.20	204	138.10	235	204.10	2008	314.00	158
65.10	747	141.00	1983	205.10	3875	315.00	561
66.90	196	141.80	461	206.10	12873	322.90	1106
68.20	672	142.60	157	207.00	2027	324.10	175
69.00	33984	143.20	399	208.00	794	324.90	191
70.00	293	145.00	182	210.20	267	325.90	250
72.90	205	146.00	378	211.00	992	326.60	150
74.00	3737	147.00	790	214.90	286	327.10	450
75.10	4645	148.00	3430	215.80	246	327.90	196
76.10	1854	148.80	553	217.00	4456	329.90	313
77.10	30480	152.10	235	218.10	484	331.60	208
78.00	1964	153.00	485	221.00	2091	333.50	204
79.10	1887	154.00	162	221.70	555	334.00	687
79.90	1583	155.00	525	222.90	699	335.10	476
81.10	1462	156.10	1916	224.00	8568	340.80	271
82.00	760	157.00	523	225.00	2540	346.80	259
83.00	332	157.70	190	226.00	218	351.80	515
84.10	481	158.00	184	226.90	3872	353.10	430
84.80	502	158.90	288	228.10	522	353.80	199
86.00	755	160.00	695	228.90	1451	355.10	357

87.10	359	161.00	1047	231.10	222	365.00	2188
88.10	171	162.10	190	234.10	923	371.90	689
91.00	623	164.70	321	236.00	285	382.90	292
92.10	1238	165.10	600	236.70	287	402.00	311
93.00	5477	166.10	261	237.10	286	403.00	295
+-----+							
93.90	185	167.10	2816	238.70	165	403.90	306
95.10	177	168.10	2019	240.00	275	420.90	541
96.00	159	169.10	205	240.80	417	422.90	1393
96.80	262	172.00	617	241.80	1050	423.90	204
98.00	2840	172.70	319	243.20	601	426.50	168
+-----+							
99.00	2191	173.10	567	244.00	5006	428.70	224
99.90	386	174.10	618	245.10	735	431.40	320
101.00	1421	175.10	1930	246.10	3058	437.60	196
103.00	520	176.10	353	251.90	251	441.00	3725
104.20	940	177.00	588	252.70	339	442.00	27616
+-----+							
105.00	669	178.00	253	253.50	229	443.00	6485
105.70	264	179.00	3683	255.00	29192	444.00	544
107.10	11813	180.10	1925	256.00	4685		
108.00	2419	181.20	495	257.00	304		
+-----+							

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

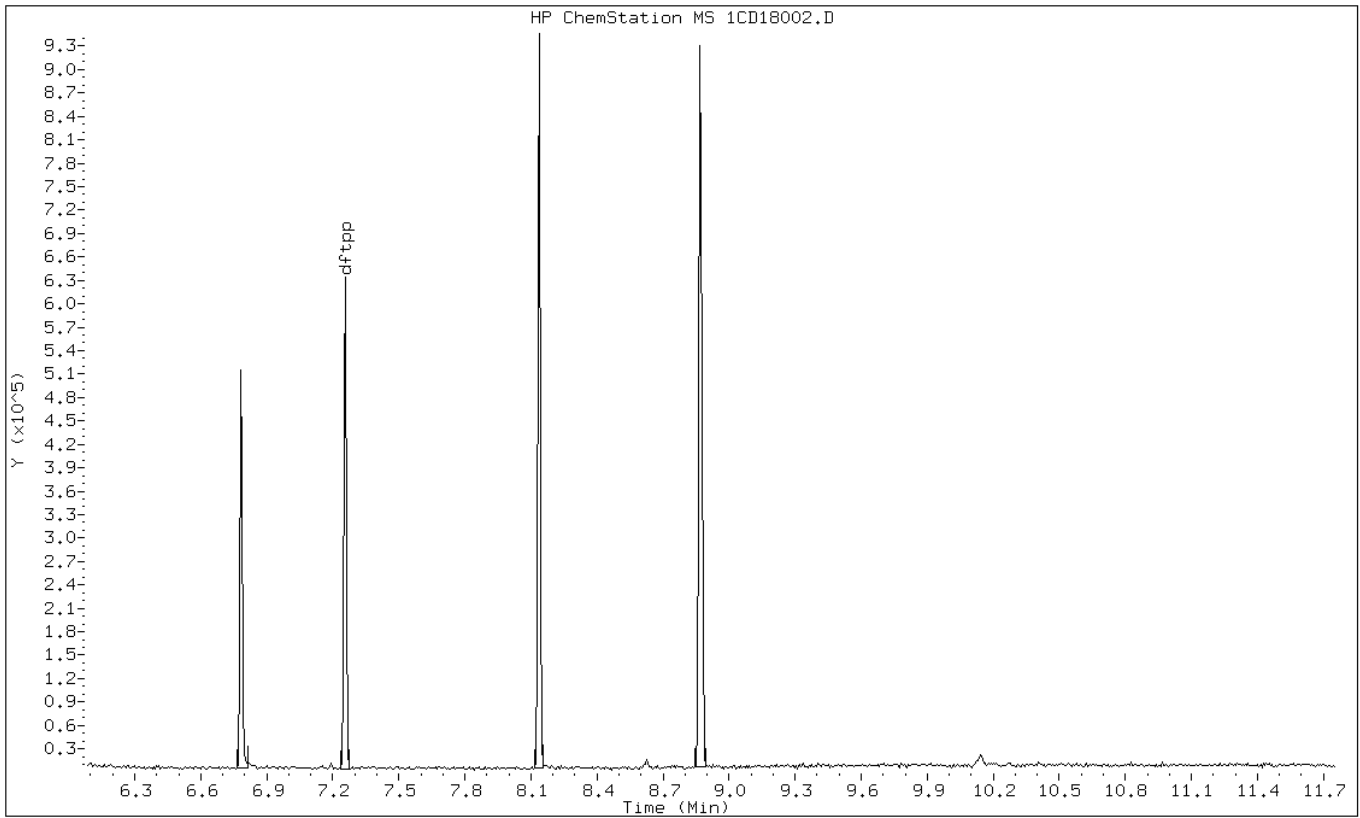
Date: 18-APR-2013 11:44

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD18002.D

Date: 18-APR-2013 11:44

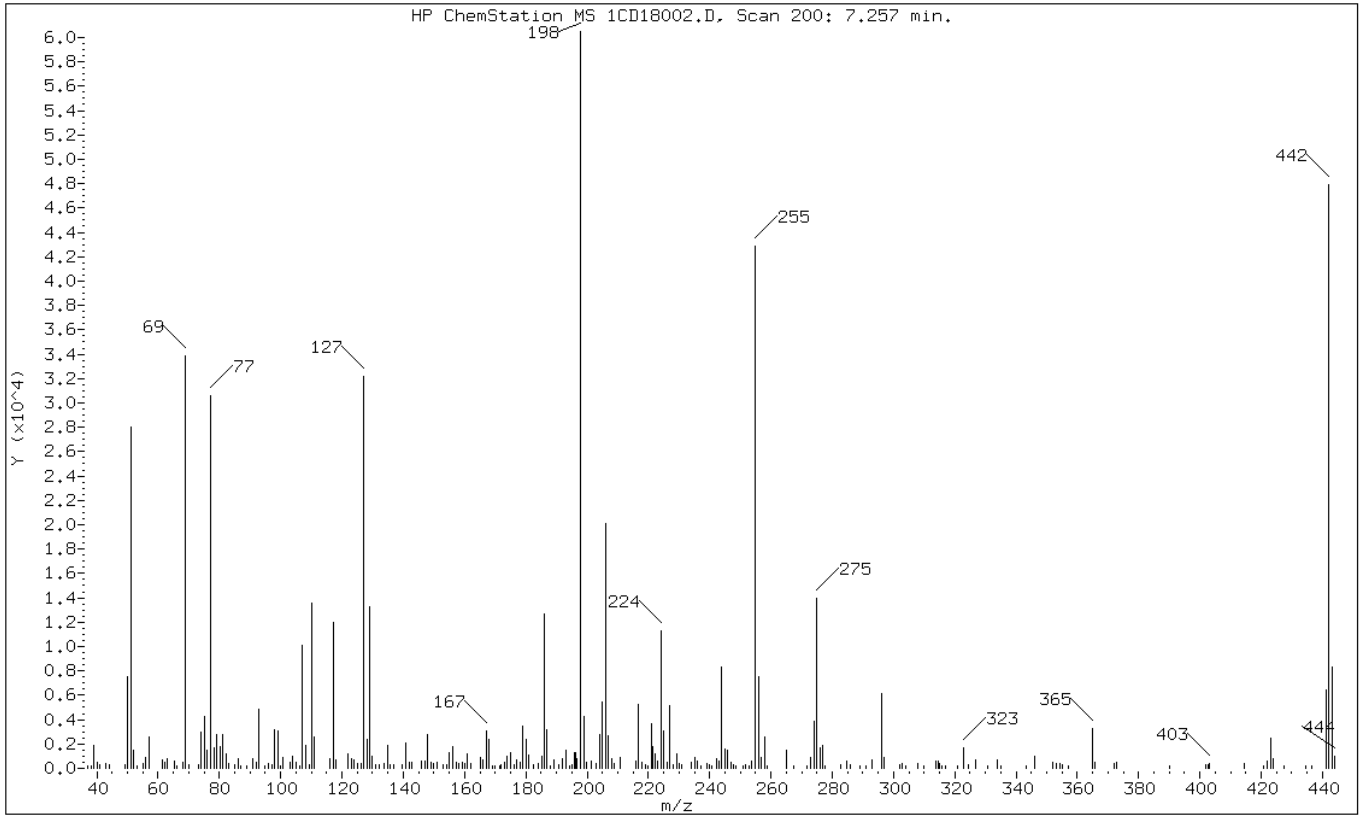
Client ID: DFTPP

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		

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136462/1-A  
 Matrix: Solid Lab File ID: 1CD17005.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.04(g) Date Analyzed: 04/17/2013 10:54  
 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.: 136590 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	61		30-130



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17005.D  
 Lab Smp Id: mb 660-136462/1-a  
 Inj Date : 17-APR-2013 10:54  
 Operator : SCC  
 Smp Info : mb 660-136462/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 5 QC Sample: BLANK  
 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	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)	254213	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	165374	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.698	(1.000)	306935	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	27297	6.06021	402.9395
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	368107	40.0000	
* 23 Perylene-d12	264		8.780	8.780	(1.000)	383045	40.0000	

Data File: 1CD17005.D

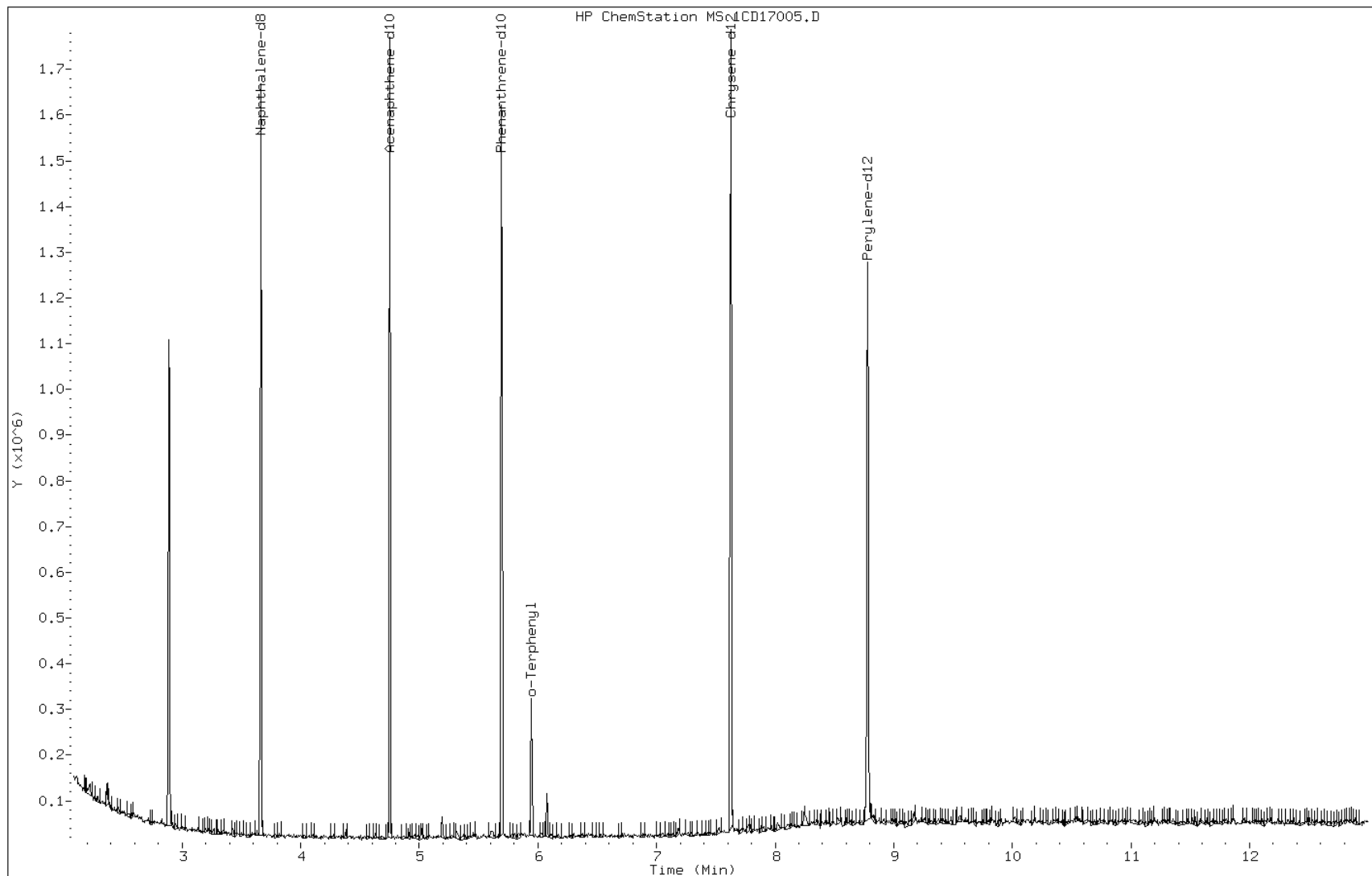
Date: 17-APR-2013 10:54

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136462/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136534/1-A  
 Matrix: Water Lab File ID: 1CD18005.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3520C Date Extracted: 04/17/2013 12:20  
 Sample wt/vol: 1000(mL) Date Analyzed: 04/18/2013 12:37  
 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/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.50
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.076
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.050
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.057
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.050
191-24-2	Benzo[g,h,i]perylene	0.50	U	0.50	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.057
218-01-9	Chrysene	0.20	U	0.20	0.069
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.050
206-44-0	Fluoranthene	0.50	U	0.50	0.054
86-73-7	Fluorene	2.0	U	2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.50
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.50
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.50	U	0.50	0.20
129-00-0	Pyrene	0.50	U	0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18005.D  
 Lab Smp Id: MB 660-136534/1-A  
 Inj Date : 18-APR-2013 12:37  
 Operator : SCC  
 Smp Info : MB 660-136534/1-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18005.D  
 Meth Date : 18-Apr-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 5 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.663	3.663	(1.000)	247540	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.745	(1.000)	178423	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	334717	40.0000	
\$ 14 o-Terphenyl	230	5.939	5.945	(1.043)	33335	6.70379	6.7037
* 18 Chrysene-d12	240	7.621	7.627	(1.000)	412162	40.0000	
* 23 Perylene-d12	264	8.780	8.780	(1.000)	455980	40.0000	

Data File: 1CD18005.D

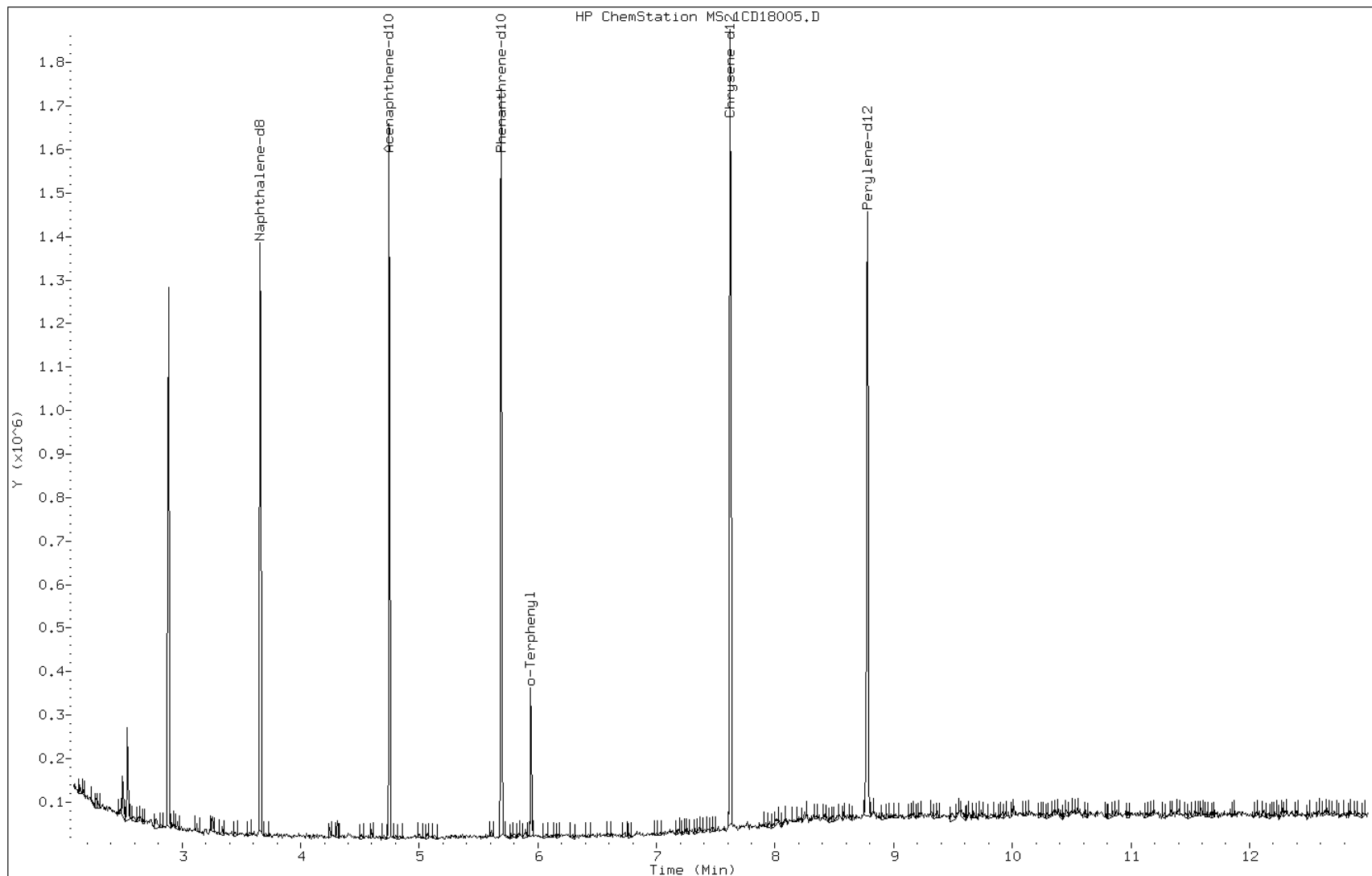
Date: 18-APR-2013 12:37

Client ID:

Instrument: BSMC5973.i

Sample Info: MB 660-136534/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136462/2-A  
 Matrix: Solid Lab File ID: 1CD17006.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.21(g) Date Analyzed: 04/17/2013 11:13  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	354		99	20
208-96-8	Acenaphthylene	363		39	4.9
120-12-7	Anthracene	424		8.3	4.1
56-55-3	Benzo[a]anthracene	398		7.9	3.8
50-32-8	Benzo[a]pyrene	358		10	5.1
205-99-2	Benzo[b]fluoranthene	432		12	6.0
191-24-2	Benzo[g,h,i]perylene	399		20	4.3
207-08-9	Benzo[k]fluoranthene	380		7.9	3.6
218-01-9	Chrysene	402		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	426		20	4.0
206-44-0	Fluoranthene	381		20	3.9
86-73-7	Fluorene	395		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	392		20	7.0
90-12-0	1-Methylnaphthalene	392		39	4.3
91-57-6	2-Methylnaphthalene	388		39	7.0
91-20-3	Naphthalene	381		39	4.3
85-01-8	Phenanthrene	391		7.9	3.8
129-00-0	Pyrene	394		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17006.D  
 Lab Smp Id: lcs 660-136462/2-a  
 Inj Date : 17-APR-2013 11:13  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-136462/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 6 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	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.663	3.663	(1.000)	268152	40.0000		
* 6 Acenaphthene-d10	164		4.751	4.751	(1.000)	186703	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.698	(1.000)	330770	40.0000		
\$ 14 o-Terphenyl	230		5.945	5.945	(1.044)	31120	6.37117	418.8804	
* 18 Chrysene-d12	240		7.627	7.627	(1.000)	411865	40.0000		
* 23 Perylene-d12	264		8.780	8.780	(1.000)	415510	40.0000		
2 Naphthalene	128		3.674	3.680	(1.003)	41957	5.78832	380.5599	
3 2-Methylnaphthalene	142		4.104	4.104	(1.120)	27271	5.89815	387.7809	
4 1-Methylnaphthalene	142		4.163	4.168	(1.136)	27574	5.95537	391.5430	
5 Acenaphthylene	152		4.663	4.663	(0.981)	43708	5.52476	363.2317	
7 Acenaphthene	154		4.768	4.774	(1.004)	25654	5.38081	353.7677	
9 Fluorene	166		5.092	5.092	(1.072)	36462	6.00966	395.1127	
11 Phenanthrene	178		5.710	5.709	(1.003)	57681	5.94937	391.1486	
12 Anthracene	178		5.745	5.745	(1.009)	61955	6.45189	424.1873	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.851	5.851	(1.028)	61819	6.91225	454.4546
15 Fluoranthene	202	6.539	6.545	(1.149)	62129	5.79008	380.6758
16 Pyrene	202	6.710	6.709	(0.880)	70278	5.99789	394.3383
17 Benzo(a)anthracene	228	7.615	7.621	(0.998)	70484	6.05183	397.8846
19 Chrysene	228	7.645	7.651	(1.002)	70498	6.11881	402.2884
20 Benzo(b)fluoranthene	252	8.445	8.450	(0.962)	68924	6.56749	431.7877
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	68665	5.78215	380.1542
22 Benzo(a)pyrene	252	8.727	8.733	(0.994)	59013	5.43987	357.6509
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.903	(1.127)	57362	5.96175	391.9627(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.915	(1.128)	64105	6.47195	425.5063
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.165)	61703	6.06829	398.9673

QC Flag Legend

M - Compound response manually integrated.



Data File: 1CD17006.D

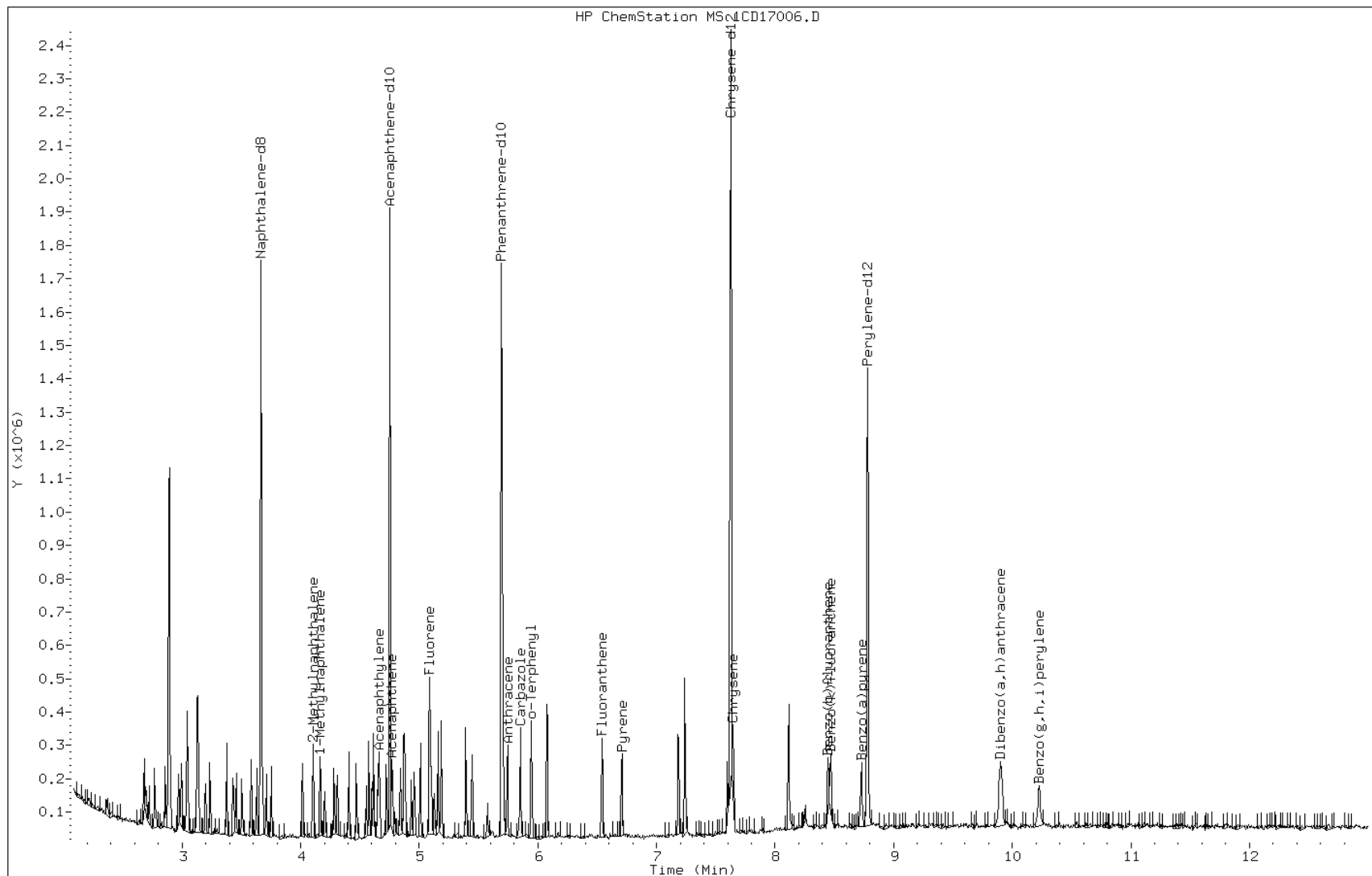
Date: 17-APR-2013 11:13

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136462/2-a

Operator: SCC

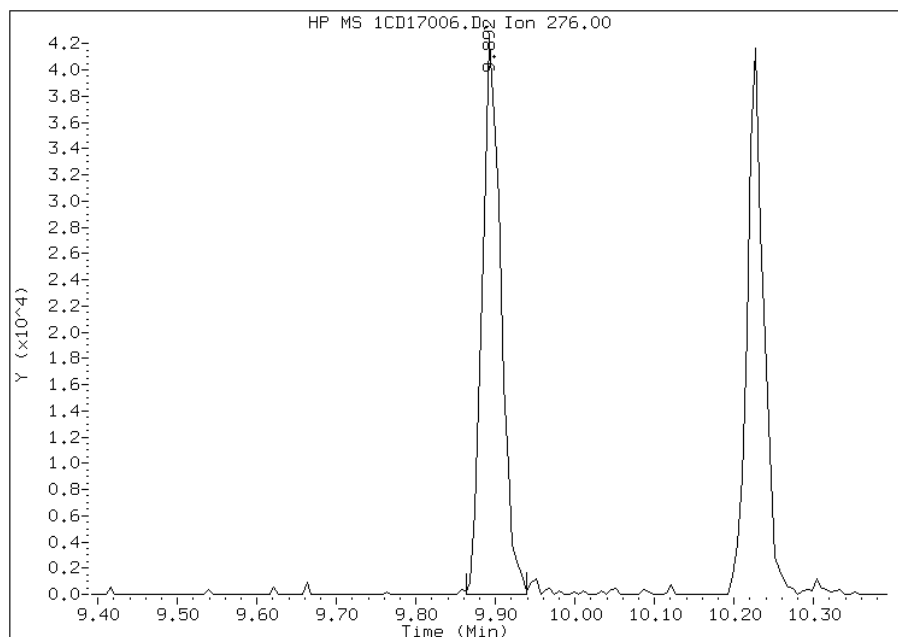


# Manual Integration Report

Data File: 1CD17006.D  
Inj. Date and Time: 17-APR-2013 11:13  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

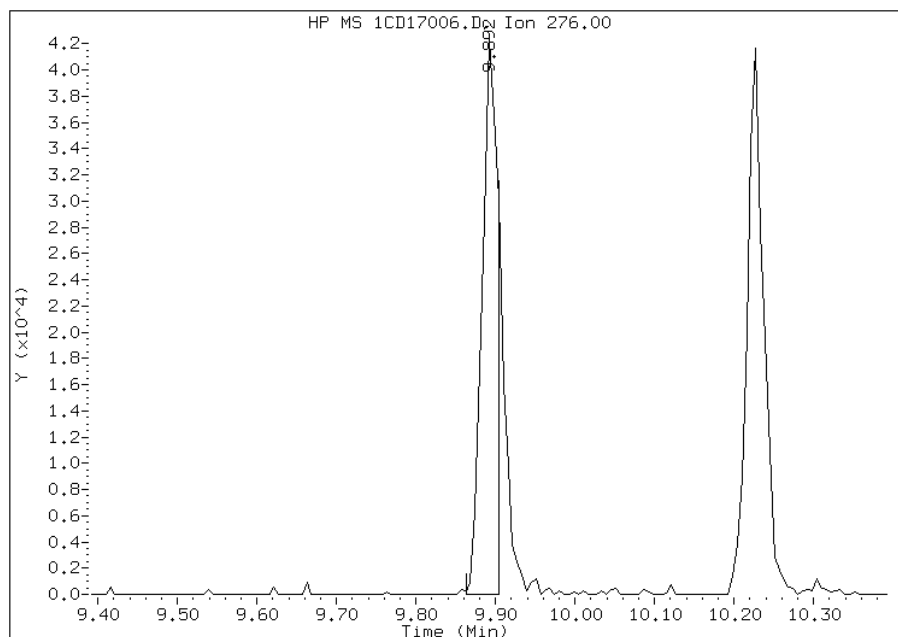
## Processing Integration Results

RT: 9.89  
Response: 69251  
Amount: 7  
Conc: 464



## Manual Integration Results

RT: 9.89  
Response: 57362  
Amount: 6  
Conc: 392



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:42  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136534/2-A  
 Matrix: Water Lab File ID: 1CD18010.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3520C Date Extracted: 04/17/2013 12:20  
 Sample wt/vol: 1000(mL) Date Analyzed: 04/18/2013 14:09  
 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/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.86		2.0	0.50
208-96-8	Acenaphthylene	8.60		1.0	0.25
120-12-7	Anthracene	7.92		0.20	0.076
56-55-3	Benzo[a]anthracene	8.02		0.20	0.050
50-32-8	Benzo[a]pyrene	5.44		0.20	0.057
205-99-2	Benzo[b]fluoranthene	6.24		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	4.04		0.50	0.10
207-08-9	Benzo[k]fluoranthene	6.17		0.20	0.057
218-01-9	Chrysene	7.37		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	4.51		0.20	0.050
206-44-0	Fluoranthene	7.98		0.50	0.054
86-73-7	Fluorene	9.15		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	4.49		0.20	0.050
90-12-0	1-Methylnaphthalene	6.89		2.0	0.50
91-57-6	2-Methylnaphthalene	7.46		2.0	0.50
91-20-3	Naphthalene	7.43		2.0	0.25
85-01-8	Phenanthrene	7.98		0.50	0.20
129-00-0	Pyrene	7.79		0.50	0.089

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\1CD18010.D  
 Lab Smp Id: LCS 660-136534/2-A  
 Inj Date : 18-APR-2013 14:09  
 Operator : SCC  
 Smp Info : LCS 660-136534/2-A  
 Misc Info : RE-RUN W/NEW INT  
 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: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		3.657	3.663	(1.000)	209025	40.0000		
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	133004	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	264879	40.0000		
\$ 14 o-Terphenyl	230		5.939	5.945	(1.043)	31505	7.87227	7.8722	
* 18 Chrysene-d12	240		7.621	7.627	(1.000)	337029	40.0000		
* 23 Perylene-d12	264		8.774	8.780	(1.000)	339368	40.0000		
2 Naphthalene	128		3.675	3.674	(1.005)	41995	7.43239	7.4323	
3 2-Methylnaphthalene	142		4.098	4.098	(1.121)	27161	7.46031	7.4603	
4 1-Methylnaphthalene	142		4.163	4.163	(1.138)	24877	6.89271	6.8927	
5 Acenaphthylene	152		4.657	4.663	(0.981)	48471	8.60044	8.6004	
7 Acenaphthene	154		4.769	4.769	(1.005)	26698	7.86064	7.8606	
9 Fluorene	166		5.086	5.086	(1.072)	39530	9.14583	9.1458	
11 Phenanthrene	178		5.704	5.704	(1.002)	61897	7.97522	7.9752	
12 Anthracene	178		5.739	5.739	(1.008)	60892	7.91862	7.9186	
13 Carbazole	167		5.851	5.851	(1.028)	60668	8.47103	8.4710	
15 Fluoranthene	202		6.539	6.539	(1.149)	68543	7.97686	7.9768	
16 Pyrene	202		6.704	6.704	(0.880)	74668	7.78755	7.7875	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.615	7.615	(0.999)	76396	8.01593	8.0159
19 Chrysene	228	7.645	7.645	(1.003)	69438	7.36503	7.3650
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	53489	6.24028	6.2402
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.964)	59864	6.17206	6.1720
22 Benzo(a)pyrene	252	8.727	8.727	(0.995)	48214	5.44158	5.4415
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.898	(1.127)	33873	4.48748	4.4874(M)
25 Dibenzo(a,h)anthracene	278	9.898	9.909	(1.128)	35286	4.50746	4.5074
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.166)	33541	4.03875	4.0387

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD18010.D

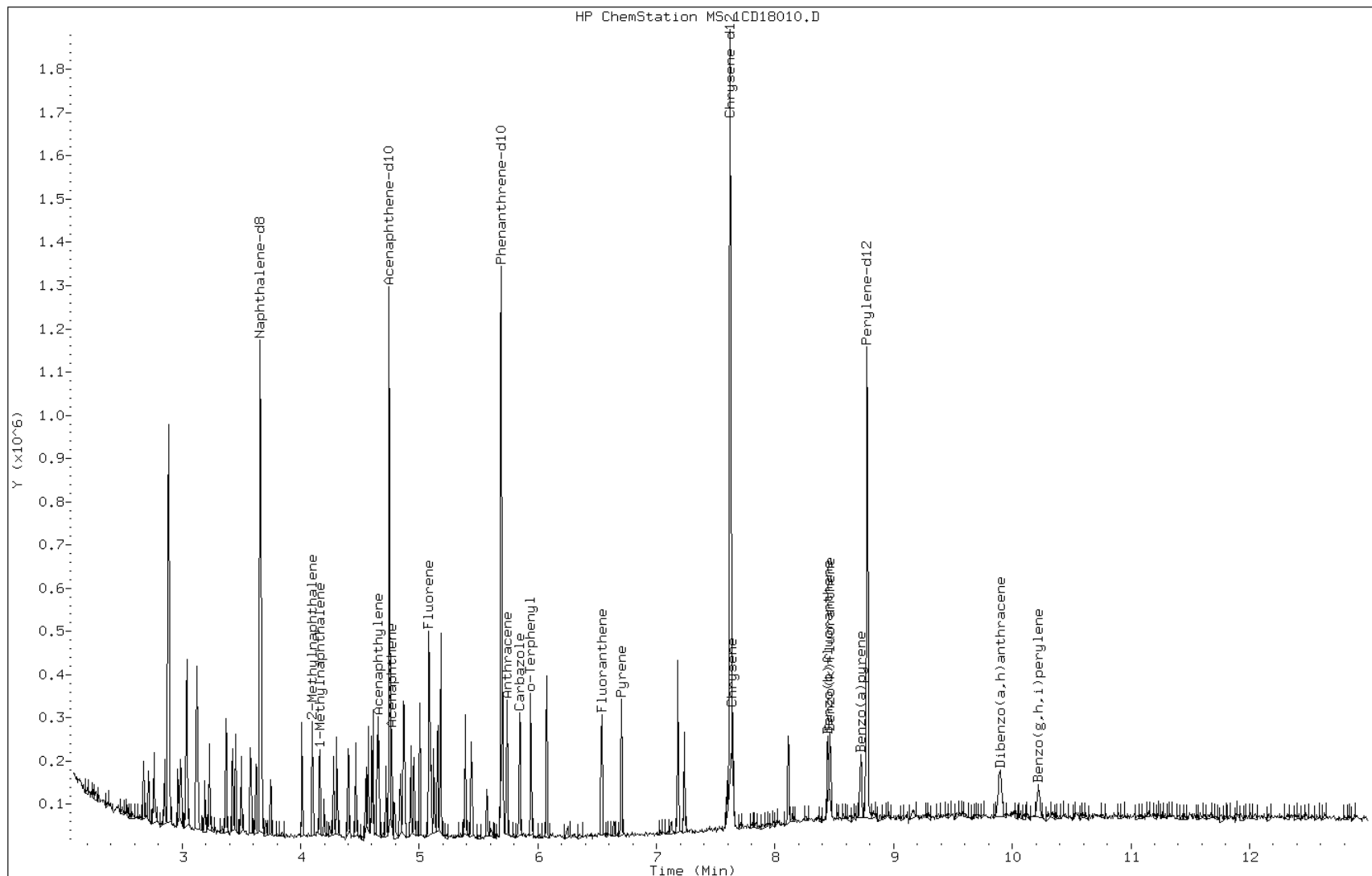
Date: 18-APR-2013 14:09

Client ID:

Instrument: BSMC5973.i

Sample Info: LCS 660-136534/2-A

Operator: SCC

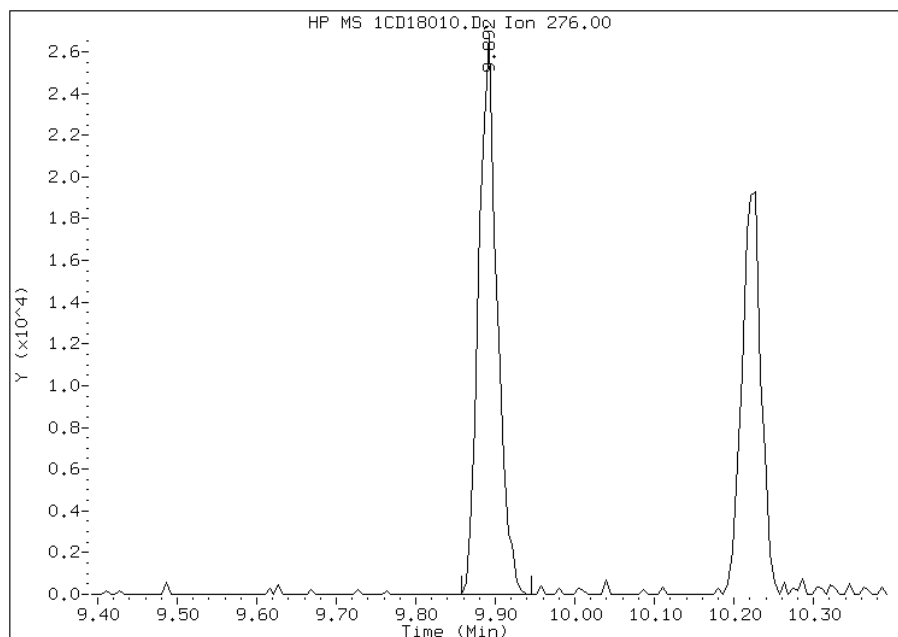


# Manual Integration Report

Data File: 1CD18010.D  
Inj. Date and Time: 18-APR-2013 14:09  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

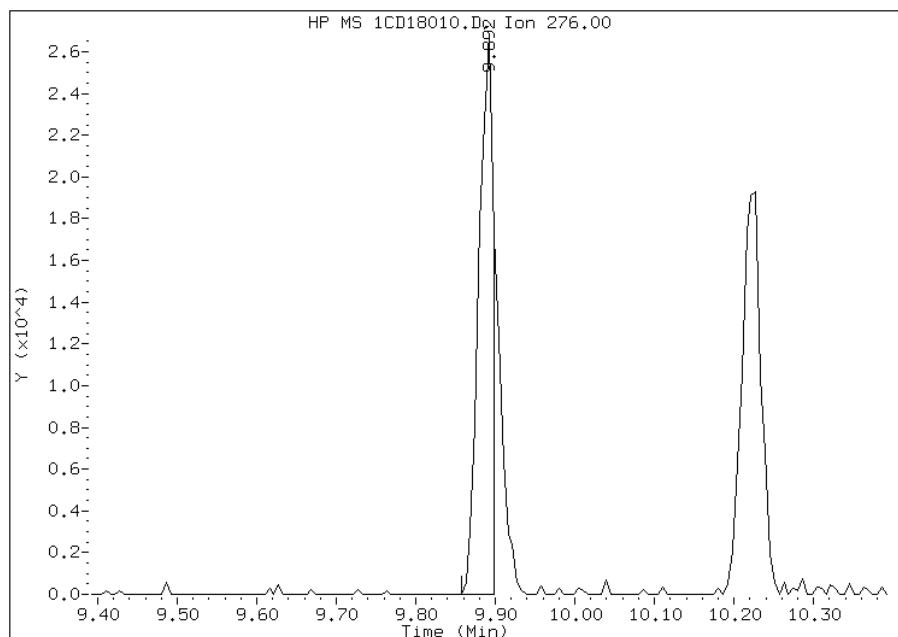
## Processing Integration Results

RT: 9.89  
Response: 42555  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 9.89  
Response: 33873  
Amount: 4  
Conc: 4



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 14:30  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 640-42984-B-1-C MS  
 Matrix: Water (SPLP East) Lab File ID: 1CD18009.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3520C Date Extracted: 04/17/2013 12:20  
 Sample wt/vol: 950(mL) Date Analyzed: 04/18/2013 13:51  
 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/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	4.47		2.1	0.53
208-96-8	Acenaphthylene	5.16		1.1	0.26
120-12-7	Anthracene	3.58		0.21	0.080
56-55-3	Benzo[a]anthracene	1.32		0.21	0.053
50-32-8	Benzo[a]pyrene	0.732		0.21	0.060
205-99-2	Benzo[b]fluoranthene	0.858		0.21	0.053
191-24-2	Benzo[g,h,i]perylene	0.675		0.53	0.11
207-08-9	Benzo[k]fluoranthene	1.05		0.21	0.060
218-01-9	Chrysene	1.11		0.21	0.073
53-70-3	Dibenz(a,h)anthracene	1.27		0.21	0.053
206-44-0	Fluoranthene	2.22		0.53	0.057
86-73-7	Fluorene	5.31		2.1	0.53
193-39-5	Indeno[1,2,3-cd]pyrene	1.44		0.21	0.053
90-12-0	1-Methylnaphthalene	6.10		2.1	0.53
91-57-6	2-Methylnaphthalene	6.01		2.1	0.53
91-20-3	Naphthalene	4.69		2.1	0.26
85-01-8	Phenanthrene	4.35		0.53	0.21
129-00-0	Pyrene	2.06		0.53	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18009.D  
 Lab Smp Id: 640-42984-b-1-c ms  
 Inj Date : 18-APR-2013 13:51  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 640-42984-b-1-c 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: 9 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	950.000	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		3.663	3.663	(1.000)	258024	40.0000		
* 6 Acenaphthene-d10	164		4.745	4.745	(1.000)	185482	40.0000		
* 10 Phenanthrene-d10	188		5.692	5.692	(1.000)	367599	40.0000		
\$ 14 o-Terphenyl	230		5.939	5.945	(1.043)	20389	4.03910	4.2516	
* 18 Chrysene-d12	240		7.621	7.627	(1.000)	453778	40.0000		
* 23 Perylene-d12	264		8.774	8.780	(1.000)	428900	40.0000		
2 Naphthalene	128		3.674	3.674	(1.003)	31102	4.45920	4.6938(R)	
3 2-Methylnaphthalene	142		4.098	4.098	(1.119)	25355	5.70821	6.0086	
4 1-Methylnaphthalene	142		4.163	4.163	(1.136)	25824	5.79633	6.1014	
5 Acenaphthylene	152		4.657	4.663	(0.981)	38538	4.90333	5.1613	
7 Acenaphthene	154		4.768	4.769	(1.005)	20096	4.24279	4.4660(R)	
9 Fluorene	166		5.086	5.086	(1.072)	30414	5.04583	5.3114(R)	
11 Phenanthrene	178		5.704	5.704	(1.002)	44560	4.13543	4.3530(R)	
12 Anthracene	178		5.739	5.739	(1.008)	36264	3.39812	3.5769(R)	
13 Carbazole	167		5.851	5.851	(1.028)	43877	4.41455	4.6468(R)	
15 Fluoranthene	202		6.539	6.539	(1.149)	25119	2.10642	2.2172(R)	
16 Pyrene	202		6.704	6.704	(0.880)	25254	1.95623	2.0591(R)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.615	7.615	(0.999)	16071	1.25242	1.3183(R)
19 Chrysene	228	7.639	7.645	(1.002)	13359	1.05239	1.1077(R)
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	8835	0.81557	0.8584(R)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.964)	12281	1.00187	1.0546(R)
22 Benzo(a)pyrene	252	8.721	8.727	(0.994)	7785	0.69522	0.7318(R)
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.898	(1.127)	8102	1.36769	1.4396(RM)
25 Dibenzo(a,h)anthracene	278	9.903	9.909	(1.129)	8323	1.20484	1.2682(R)
26 Benzo(g,h,i)perylene	276	10.209	10.233	(1.164)	6728	0.64102	0.6747(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
M - Compound response manually integrated.

Data File: 1CD18009.D

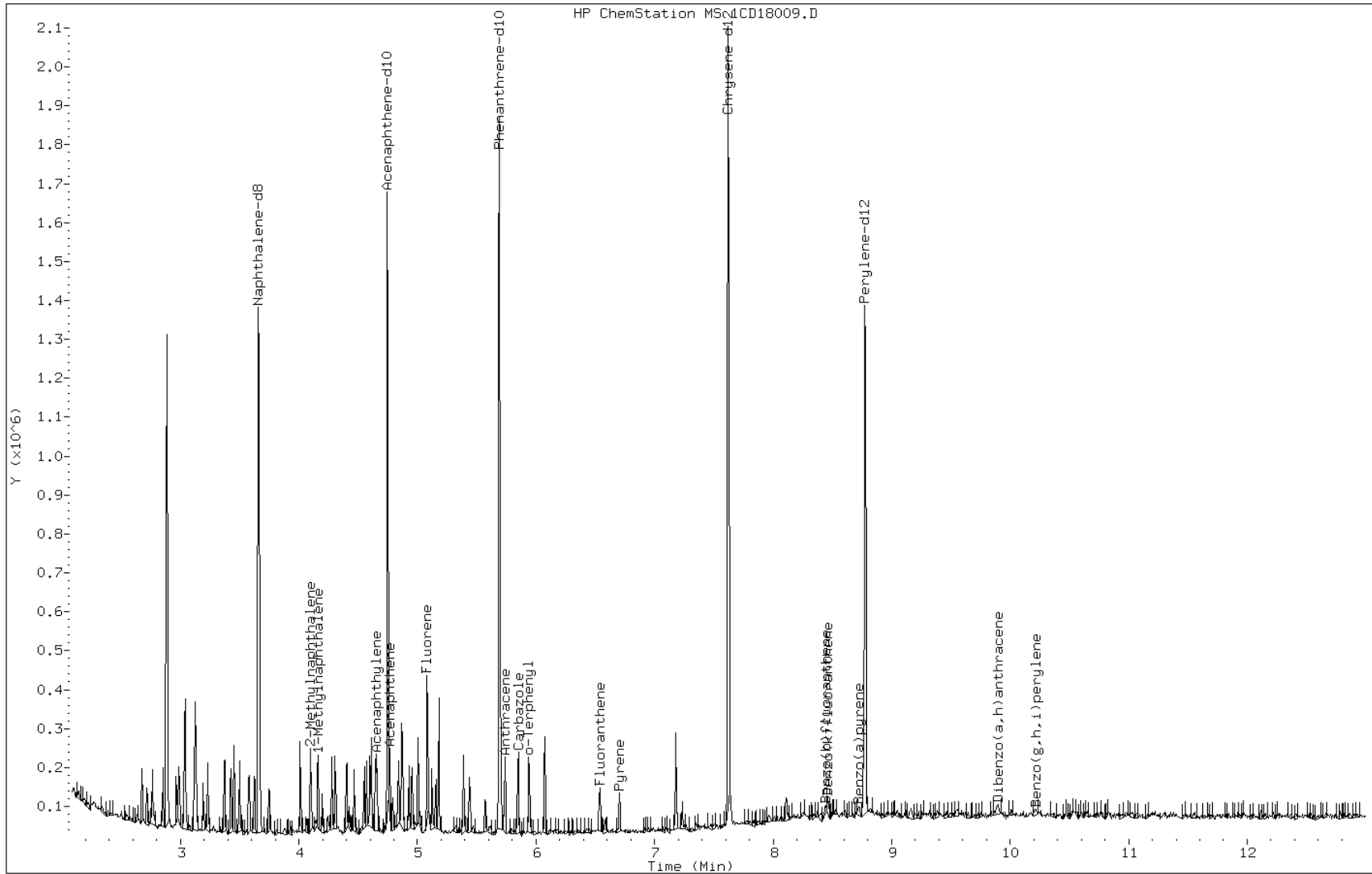
Date: 18-APR-2013 13:51

Client ID:

Instrument: BSMC5973.i

Sample Info: 640-42984-b-1-c ms

Operator: SCC

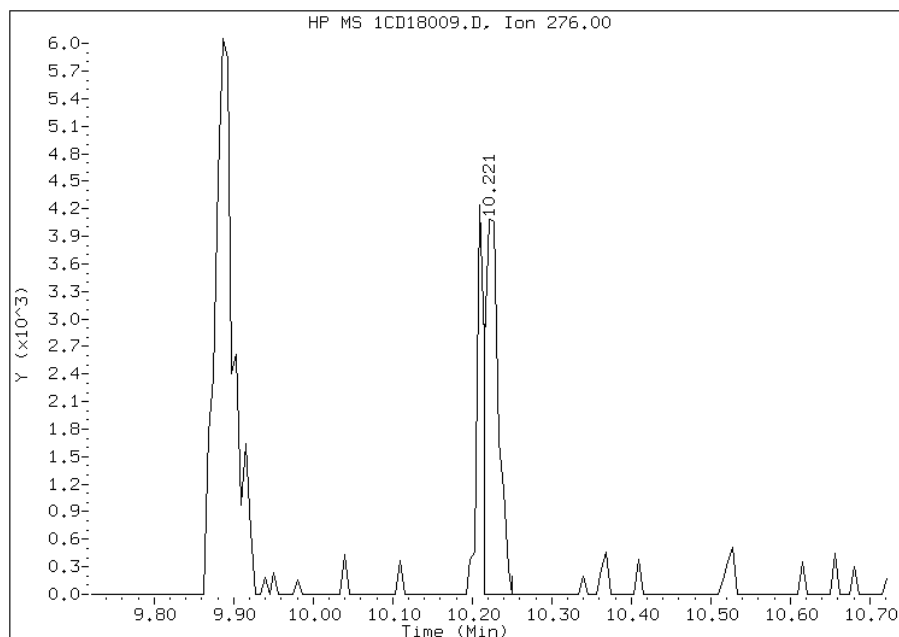


# Manual Integration Report

Data File: 1CD18009.D  
Inj. Date and Time: 18-APR-2013 13:51  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/18/2013

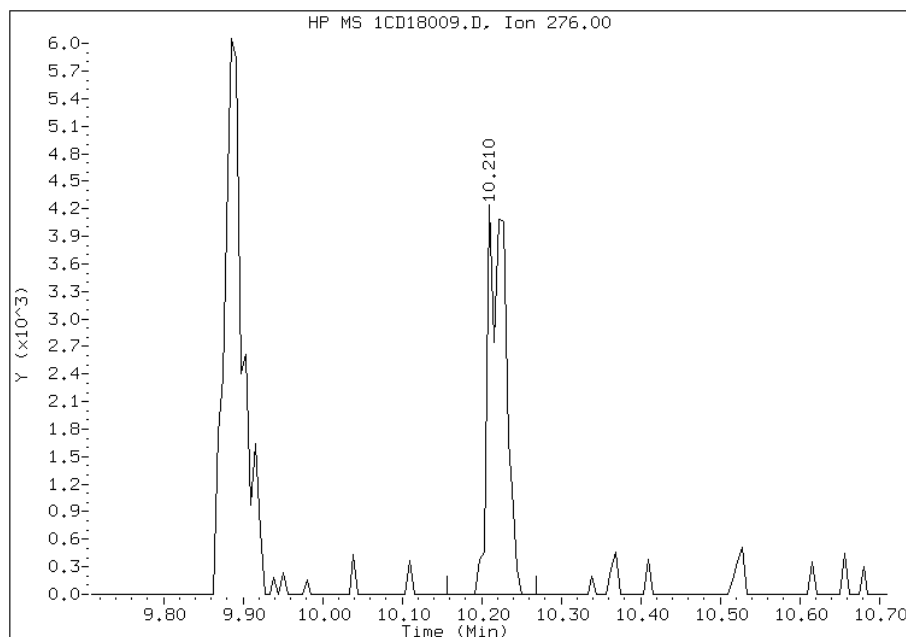
## Processing Integration Results

RT: 10.22  
Response: 4928  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.21  
Response: 6728  
Amount: 1  
Conc: 1



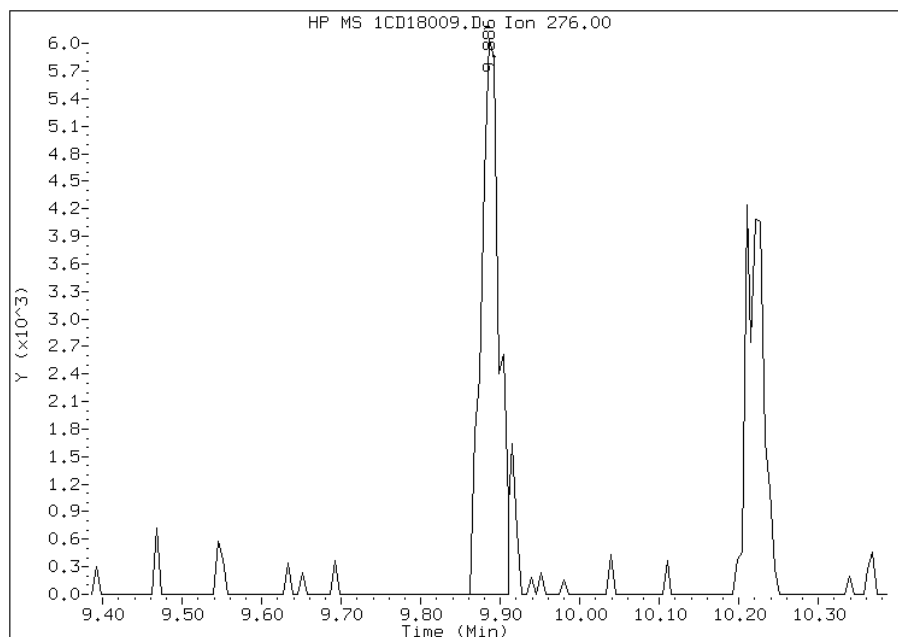
Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 14:29  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD18009.D  
Inj. Date and Time: 18-APR-2013 13:51  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

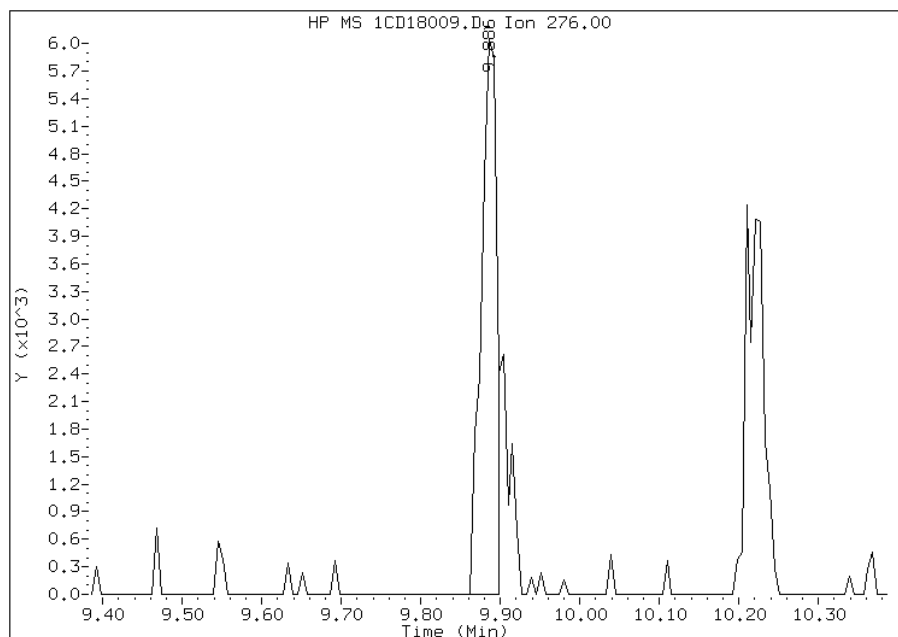
## Processing Integration Results

RT: 9.89  
Response: 9365  
Amount: 1  
Conc: 2



## Manual Integration Results

RT: 9.89  
Response: 8102  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 18-Apr-2013 14:29  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0877A-CS MS Lab Sample ID: 680-89275-2 MS  
 Matrix: Solid Lab File ID: 1CD17008.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 14:15  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 14.96(g) Date Analyzed: 04/17/2013 11:49  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	342		130	25
208-96-8	Acenaphthylene	376		50	6.3
120-12-7	Anthracene	367		11	5.3
56-55-3	Benzo[a]anthracene	608		10	4.9
50-32-8	Benzo[a]pyrene	496		13	6.6
205-99-2	Benzo[b]fluoranthene	747		15	7.7
191-24-2	Benzo[g,h,i]perylene	440		25	5.5
207-08-9	Benzo[k]fluoranthene	482		10	4.5
218-01-9	Chrysene	686		11	5.7
53-70-3	Dibenz(a,h)anthracene	347		25	5.2
206-44-0	Fluoranthene	634		25	5.0
86-73-7	Fluorene	368		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	432		25	8.9
90-12-0	1-Methylnaphthalene	681		50	5.5
91-57-6	2-Methylnaphthalene	648		50	8.9
91-20-3	Naphthalene	539		50	5.5
85-01-8	Phenanthrene	668		10	4.9
129-00-0	Pyrene	673		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17008.D  
 Lab Smp Id: 680-89275-a-2-b ms  
 Inj Date : 17-APR-2013 11:49  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-2-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 8 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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	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)	362237	40.0000	
* 6 Acenaphthene-d10	164	4.751	4.751	(1.000)	252903	40.0000	
* 10 Phenanthrene-d10	188	5.698	5.698	(1.000)	460657	40.0000	
\$ 14 o-Terphenyl	230	5.945	5.945	(1.043)	22423	3.62911	242.5875
* 18 Chrysene-d12	240	7.633	7.627	(1.000)	538817	40.0000	
* 23 Perylene-d12	264	8.786	8.780	(1.000)	516343	40.0000	
2 Naphthalene	128	3.680	3.680	(1.005)	62801	6.41361	428.7173
3 2-Methylnaphthalene	142	4.104	4.104	(1.120)	48758	7.71813	515.9179
4 1-Methylnaphthalene	142	4.169	4.168	(1.138)	50708	8.10725	541.9285
5 Acenaphthylene	152	4.663	4.663	(0.981)	47914	4.47107	298.8686
7 Acenaphthene	154	4.774	4.774	(1.005)	26331	4.07715	272.5369
9 Fluorene	166	5.092	5.092	(1.072)	35959	4.37537	292.4711
11 Phenanthrene	178	5.710	5.709	(1.002)	107339	7.95240	531.5778
12 Anthracene	178	5.745	5.745	(1.008)	58463	4.37160	292.2190

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851	(1.027)	46216	3.71055	248.0315(R)
15 Fluoranthene	202	6.545	6.545	(1.149)	112735	7.54393	504.2730
16 Pyrene	202	6.710	6.709	(0.879)	122729	8.00644	535.1900
17 Benzo(a)anthracene	228	7.621	7.621	(0.998)	110288	7.23832	483.8448
19 Chrysene	228	7.651	7.651	(1.002)	123158	8.17083	546.1785
20 Benzo(b)fluoranthene	252	8.451	8.450	(0.962)	115971	8.89245	594.4153
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.965)	84697	5.73938	383.6483
22 Benzo(a)pyrene	252	8.733	8.733	(0.994)	79672	5.91003	395.0555
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.903	(1.127)	60360	5.14624	343.9999(M)
25 Dibenzo(a,h)anthracene	278	9.915	9.915	(1.129)	48714	4.13134	276.1590
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	66194	5.23868	350.1793

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.



Data File: 1CD17008.D

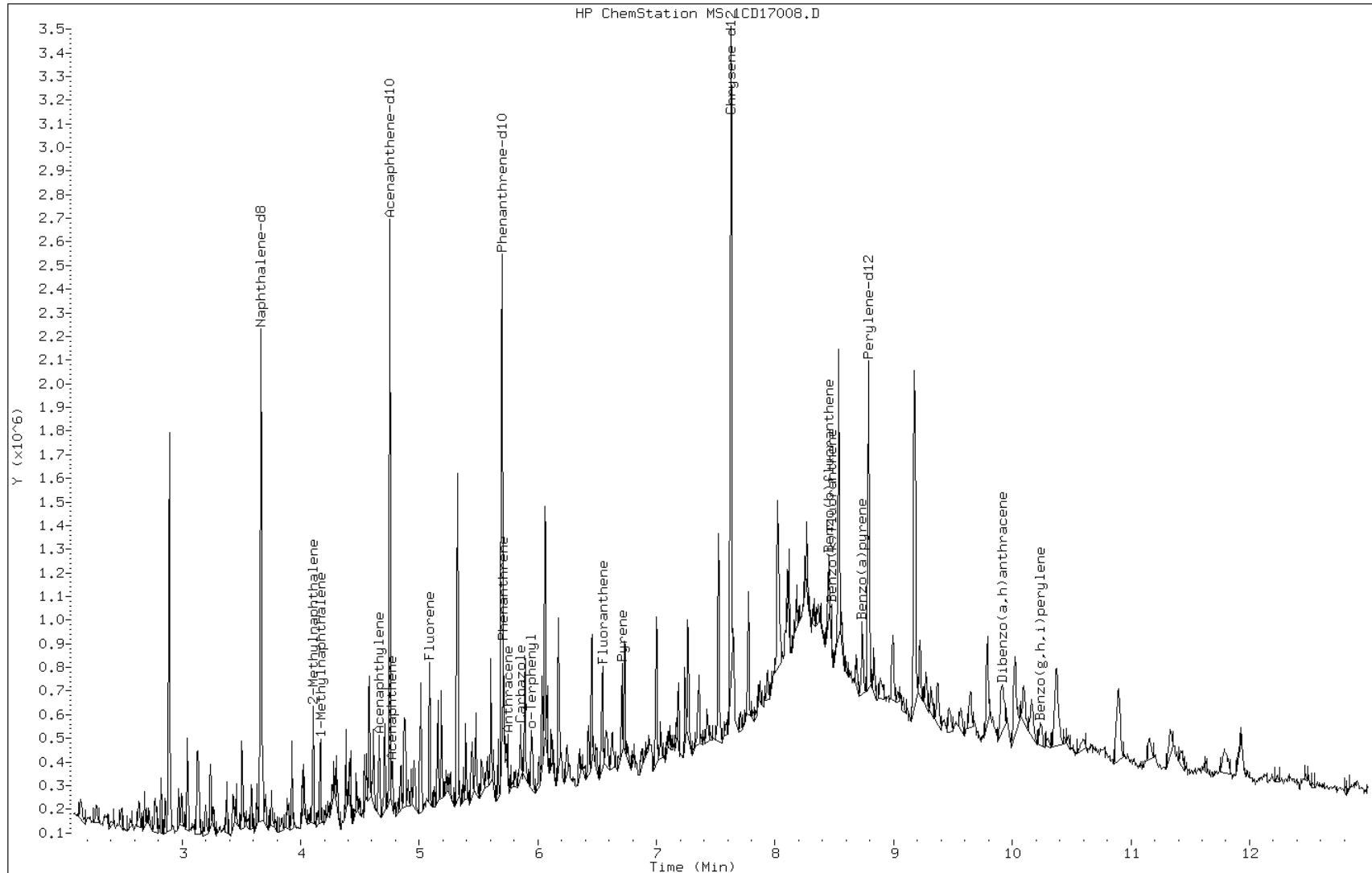
Date: 17-APR-2013 11:49

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-b ms

Operator: SCC

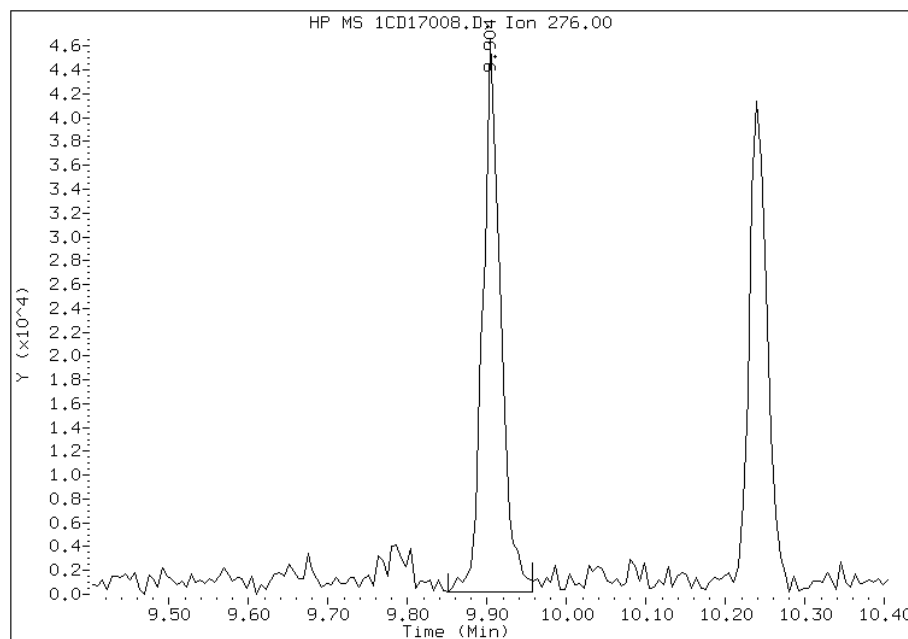


# Manual Integration Report

Data File: 1CD17008.D  
Inj. Date and Time: 17-APR-2013 11:49  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

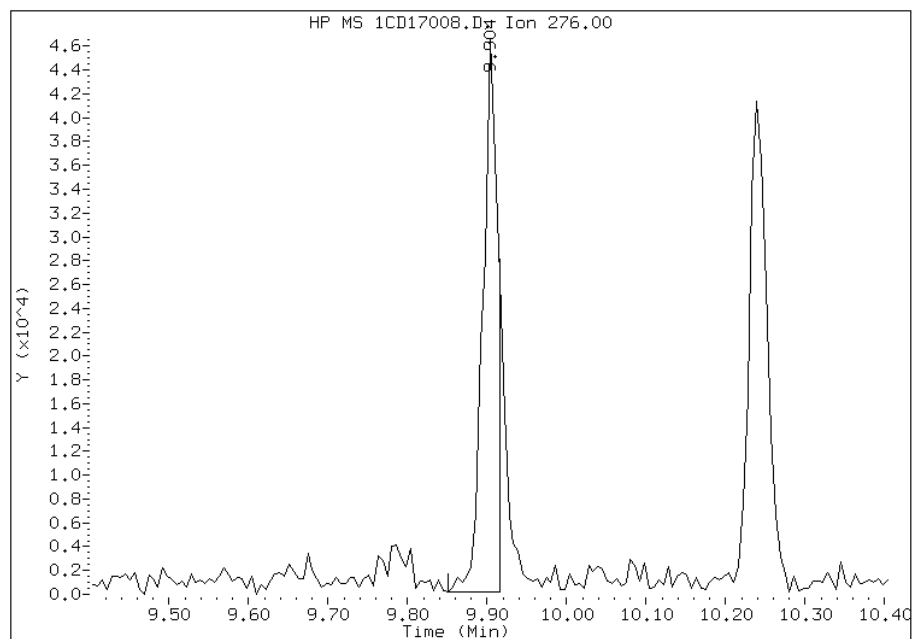
## Processing Integration Results

RT: 9.90  
Response: 71931  
Amount: 6  
Conc: 402



## Manual Integration Results

RT: 9.90  
Response: 60360  
Amount: 5  
Conc: 344



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:45  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: CV0877A-CS MSD Lab Sample ID: 680-89275-2 MSD  
 Matrix: Solid Lab File ID: 1CD17009.D  
 Analysis Method: 8270C LL Date Collected: 04/10/2013 14:15  
 Extract. Method: 3546 Date Extracted: 04/16/2013 07:00  
 Sample wt/vol: 15.03(g) Date Analyzed: 04/17/2013 12:08  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136590 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	316		130	25
208-96-8	Acenaphthylene	416		50	6.3
120-12-7	Anthracene	422		11	5.3
56-55-3	Benzo[a]anthracene	749		10	4.9
50-32-8	Benzo[a]pyrene	623		13	6.5
205-99-2	Benzo[b]fluoranthene	939		15	7.7
191-24-2	Benzo[g,h,i]perylene	547		25	5.5
207-08-9	Benzo[k]fluoranthene	638		10	4.5
218-01-9	Chrysene	867		11	5.6
53-70-3	Dibenz(a,h)anthracene	352		25	5.1
206-44-0	Fluoranthene	1120		25	5.0
86-73-7	Fluorene	376		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	518		25	8.9
90-12-0	1-Methylnaphthalene	714		50	5.5
91-57-6	2-Methylnaphthalene	766		50	8.9
91-20-3	Naphthalene	657		50	5.5
85-01-8	Phenanthrene	1020		10	4.9
129-00-0	Pyrene	1090		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	39		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17009.D  
 Lab Smp Id: 680-89275-a-2-c msd  
 Inj Date : 17-APR-2013 12:08  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-2-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m  
 Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D  
 Als bottle: 9 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	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.668	3.663 (1.000)		350766	40.0000	
* 6 Acenaphthene-d10	164		4.751	4.751 (1.000)		234568	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.698 (1.000)		428425	40.0000	
\$ 14 o-Terphenyl	230		5.945	5.945 (1.043)		22826	3.90706	259.9508
* 18 Chrysene-d12	240		7.633	7.627 (1.000)		496833	40.0000	
* 23 Perylene-d12	264		8.786	8.780 (1.000)		456609	40.0000	
2 Naphthalene	128		3.680	3.680 (1.003)		74529	7.86026	522.9711
3 2-Methylnaphthalene	142		4.104	4.104 (1.119)		56368	9.16168	609.5593
4 1-Methylnaphthalene	142		4.168	4.168 (1.136)		51723	8.53997	568.1947
5 Acenaphthylene	152		4.662	4.663 (0.981)		49504	4.98052	331.3721
7 Acenaphthene	154		4.774	4.774 (1.005)		22658	3.78265	251.6734(R)
9 Fluorene	166		5.092	5.092 (1.072)		34281	4.49724	299.2173
11 Phenanthrene	178		5.709	5.709 (1.002)		152408	12.1544	808.6779
12 Anthracene	178		5.745	5.745 (1.008)		62848	5.05305	336.1974

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.856	5.851 (1.028)		48598	4.19534	279.1312(R)
15 Fluoranthene	202	6.545	6.545 (1.149)		186758	13.4376	894.0498(R)
16 Pyrene	202	6.709	6.709 (0.879)		184617	13.0616	869.0324(R)
17 Benzo(a)anthracene	228	7.621	7.621 (0.998)		125946	8.96447	596.4385
19 Chrysene	228	7.650	7.651 (1.002)		144156	10.3721	690.0938
20 Benzo(b)fluoranthene	252	8.456	8.450 (0.963)		129472	11.2264	746.9352
21 Benzo(k)fluoranthene	252	8.474	8.468 (0.965)		99560	7.62914	507.5941
22 Benzo(a)pyrene	252	8.733	8.733 (0.994)		88893	7.45668	496.1197
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.903 (1.127)		65814	6.19633	412.2639(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915 (1.129)		44054	4.21478	280.4241
26 Benzo(g,h,i)perylene	276	10.239	10.233 (1.165)		73059	6.53839	435.0228

QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
 M - Compound response manually integrated.

Data File: 1CD17009.D

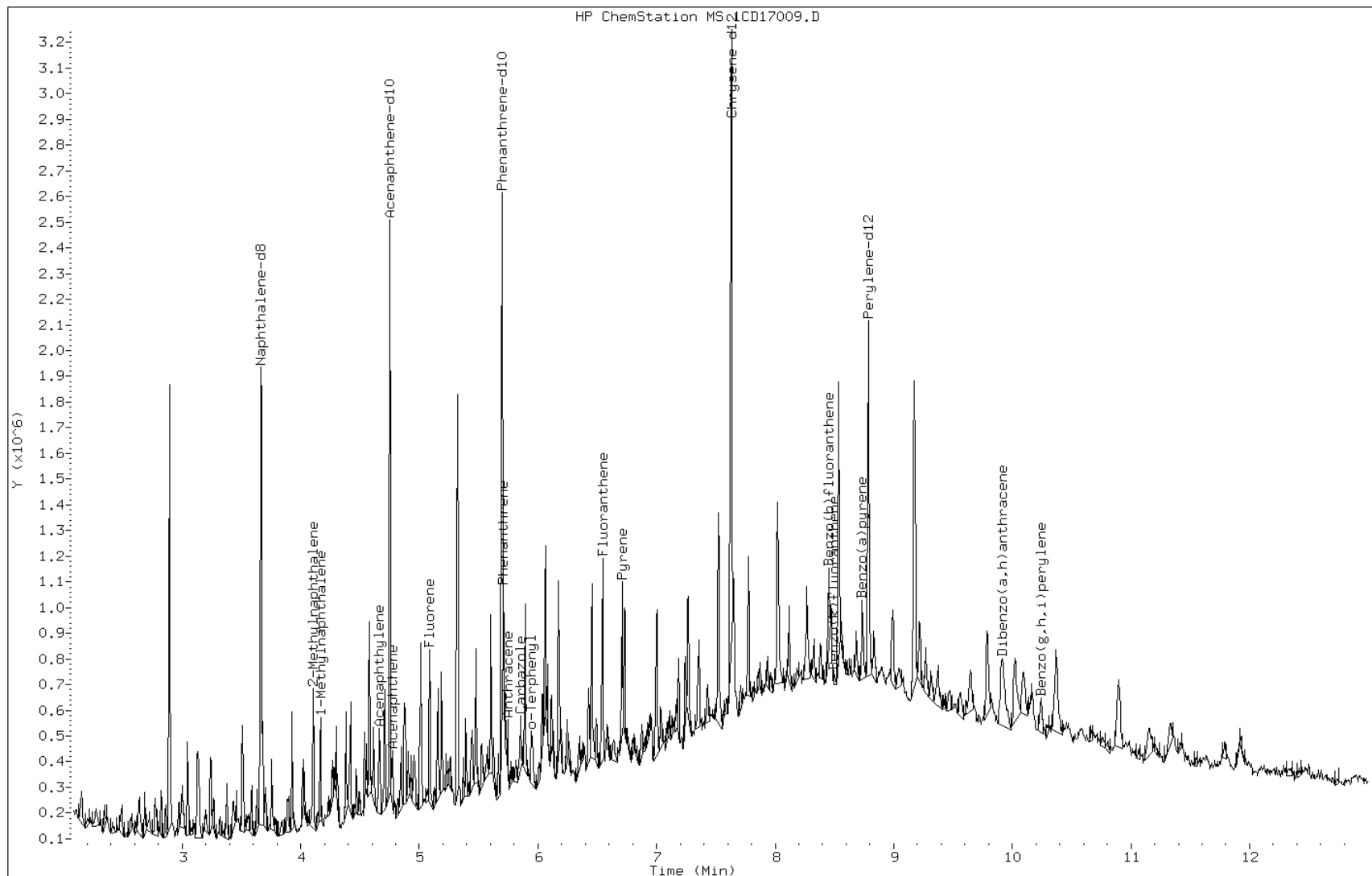
Date: 17-APR-2013 12:08

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-c msd

Operator: SCC

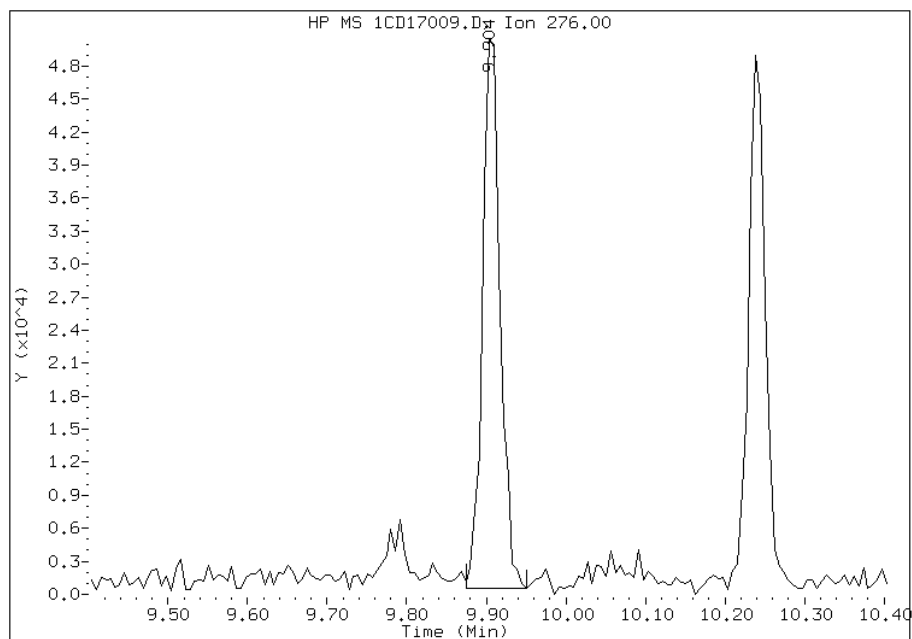


# Manual Integration Report

Data File: 1CD17009.D  
Inj. Date and Time: 17-APR-2013 12:08  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/18/2013

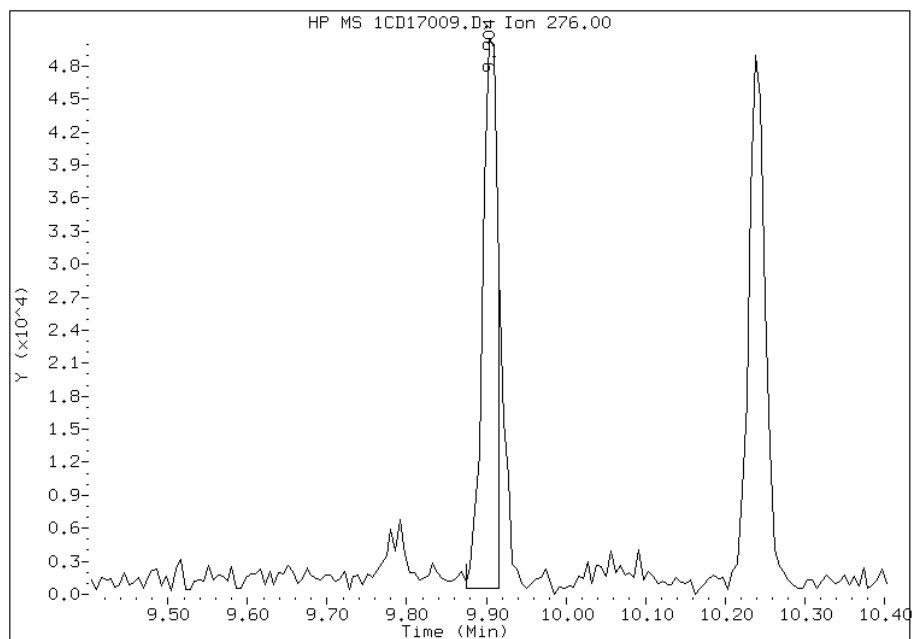
## Processing Integration Results

RT: 9.90  
Response: 76292  
Amount: 7  
Conc: 471



## Manual Integration Results

RT: 9.90  
Response: 65814  
Amount: 6  
Conc: 412



Manually Integrated By: cantins  
Modification Date: 17-Apr-2013 15:45  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
 SDG No.: 68089275-1  
 Client Sample ID: 04113-RB-Bowls + Spoons Lab Sample ID: 680-89275-1 DU  
 Matrix: Water Lab File ID: 1CD18015.D  
 Analysis Method: 8270C LL Date Collected: 04/11/2013 08:10  
 Extract. Method: 3520C Date Extracted: 04/17/2013 12:20  
 Sample wt/vol: 850 (mL) Date Analyzed: 04/18/2013 15:41  
 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/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.4	U	2.4	0.59
208-96-8	Acenaphthylene	1.2	U	1.2	0.29
120-12-7	Anthracene	0.24	U	0.24	0.089
56-55-3	Benzo[a]anthracene	0.24	U	0.24	0.059
50-32-8	Benzo[a]pyrene	0.24	U	0.24	0.067
205-99-2	Benzo[b]fluoranthene	0.24	U	0.24	0.059
191-24-2	Benzo[g,h,i]perylene	0.59	U	0.59	0.12
207-08-9	Benzo[k]fluoranthene	0.24	U	0.24	0.067
218-01-9	Chrysene	0.24	U	0.24	0.081
53-70-3	Dibenz(a,h)anthracene	0.24	U	0.24	0.059
206-44-0	Fluoranthene	0.59	U	0.59	0.064
86-73-7	Fluorene	2.4	U	2.4	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	0.24	U	0.24	0.059
90-12-0	1-Methylnaphthalene	2.4	U	2.4	0.59
91-57-6	2-Methylnaphthalene	2.4	U	2.4	0.59
91-20-3	Naphthalene	2.4	U	2.4	0.29
85-01-8	Phenanthrene	0.59	U	0.59	0.24
129-00-0	Pyrene	0.59	U	0.59	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18015.D  
 Lab Smp Id: 680-89275-a-1-a du  
 Inj Date : 18-APR-2013 15:41  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-89275-a-1-a du  
 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: 15 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	850.000	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				CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)	
* 1 Naphthalene-d8	136	3.657	3.663	(1.000)	271177	40.0000		
* 6 Acenaphthene-d10	164	4.745	4.745	(1.000)	189753	40.0000		
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	358798	40.0000		
\$ 14 o-Terphenyl	230	5.939	5.945	(1.043)	32221	6.11266	7.1913	
* 18 Chrysene-d12	240	7.621	7.627	(1.000)	462318	40.0000		
* 23 Perylene-d12	264	8.780	8.780	(1.000)	445114	40.0000		

Data File: 1CD18015.D

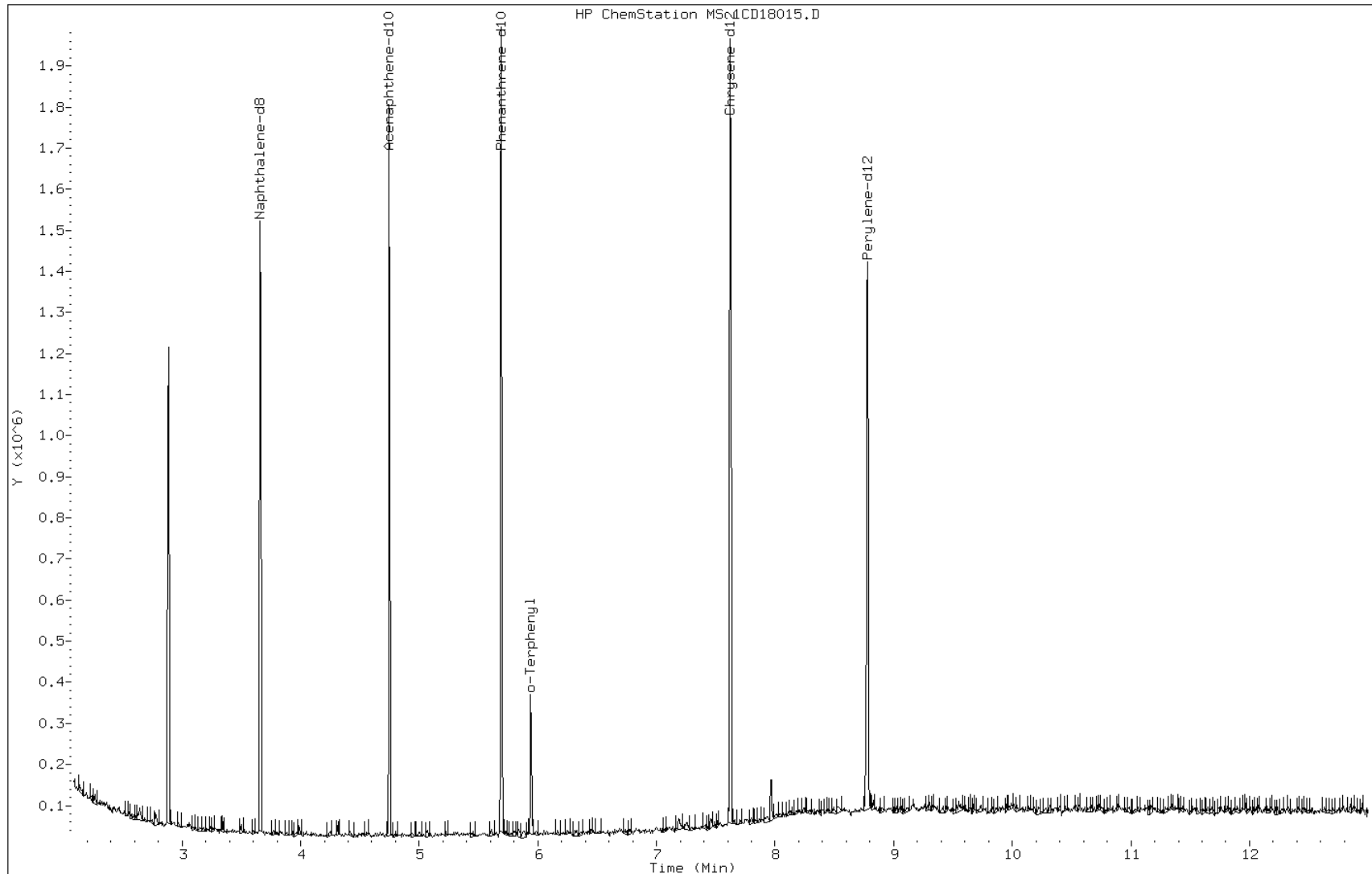
Date: 18-APR-2013 15:41

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89275-a-1-a du

Operator: SCC



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89275-1SDG No.: 68089275-1Instrument 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.: 680-89275-1SDG No.: 68089275-1Instrument ID: BSMC5973Start Date: 04/17/2013 09:25Analysis Batch Number: 136590End Date: 04/17/2013 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/17/2013 09:25	1		DB-5MS 250 (um)
ZZZZZ		04/17/2013 09:43	1		DB-5MS 250 (um)
DFTPP 660-136590/2		04/17/2013 10:01	1	1CD17002.D	DB-5MS 250 (um)
CCVIS 660-136590/3		04/17/2013 10:18	1	1CD17003.D	DB-5MS 250 (um)
ZZZZZ		04/17/2013 10:36	1		DB-5MS 250 (um)
MB 660-136462/1-A		04/17/2013 10:54	1	1CD17005.D	DB-5MS 250 (um)
LCS 660-136462/2-A		04/17/2013 11:13	1	1CD17006.D	DB-5MS 250 (um)
680-89275-2	CV0877A-CS	04/17/2013 11:31	1	1CD17007.D	DB-5MS 250 (um)
680-89275-2 MS	CV0877A-CS MS	04/17/2013 11:49	1	1CD17008.D	DB-5MS 250 (um)
680-89275-2 MSD	CV0877A-CS MSD	04/17/2013 12:08	1	1CD17009.D	DB-5MS 250 (um)
680-89275-5	CV1086A-CS	04/17/2013 12:26	4	1CD17010.D	DB-5MS 250 (um)
680-89275-6	CV1086B-GS	04/17/2013 12:44	4	1CD17011.D	DB-5MS 250 (um)
680-89275-7	CV1086C-GS	04/17/2013 13:03	4	1CD17012.D	DB-5MS 250 (um)
680-89275-8	CV01088A-CS	04/17/2013 13:21	1	1CD17013.D	DB-5MS 250 (um)
680-89275-9	CV01088B-GS	04/17/2013 13:39	1	1CD17014.D	DB-5MS 250 (um)
680-89275-10	CV1090A-CS	04/17/2013 13:58	4	1CD17015.D	DB-5MS 250 (um)
680-89275-11	CV1090A-CSD	04/17/2013 14:16	1	1CD17016.D	DB-5MS 250 (um)
680-89275-12	CV1091A-CS	04/17/2013 14:34	1	1CD17017.D	DB-5MS 250 (um)
680-89275-13	CV1357A-CS	04/17/2013 14:53	1	1CD17018.D	DB-5MS 250 (um)
680-89275-14	CV1357B-CS	04/17/2013 15:11	4	1CD17019.D	DB-5MS 250 (um)
680-89275-15	CV0050A-CS-SP	04/17/2013 15:29	1	1CD17020.D	DB-5MS 250 (um)
680-89275-16	CV0050B-CS-SP	04/17/2013 15:48	1	1CD17021.D	DB-5MS 250 (um)
680-89275-17	CV0133A-CS-SP	04/17/2013 16:06	1	1CD17022.D	DB-5MS 250 (um)
680-89275-18	CV0133B-CS-SP	04/17/2013 16:24	1	1CD17023.D	DB-5MS 250 (um)
680-89275-19	CV0318A-CS-SP	04/17/2013 16:43	1	1CD17024.D	DB-5MS 250 (um)
680-89275-20	CV0318B-CS-SP	04/17/2013 17:01	1	1CD17025.D	DB-5MS 250 (um)
ZZZZZ		04/17/2013 17:19	4		DB-5MS 250 (um)
ZZZZZ		04/17/2013 17:38	1		DB-5MS 250 (um)
ZZZZZ		04/17/2013 17:56	4		DB-5MS 250 (um)
680-89275-10 DL	CV1090A-CS DL	04/17/2013 18:14	20	1CD17029.D	DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89275-1SDG No.: 68089275-1Instrument 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)
MB 660-136534/1-A		04/18/2013 12:37	1	1CD18005.D	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)
640-42984-B-1-C MS		04/18/2013 13:51	1	1CD18009.D	DB-5MS 250 (um)
LCS 660-136534/2-A		04/18/2013 14:09	1	1CD18010.D	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)
680-89275-1	04113-RB-Bowls + Spoons	04/18/2013 15:22	1	1CD18014.D	DB-5MS 250 (um)
680-89275-1 DU	04113-RB-Bowls + Spoons DU	04/18/2013 15:41	1	1CD18015.D	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)
ZZZZZ		04/18/2013 16:36	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 16:54	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 17:12	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 17:30	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 17:49	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 18:07	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 18:25	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 18:44	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 19:02	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 19:20	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 19:39	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 19:57	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 20:15	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 20:34	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 20:52	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 21:10	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 21:29	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 21:47	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 22:05	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 22:24	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 22:42	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 23:00	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 23:19	1		DB-5MS 250 (um)
ZZZZZ		04/18/2013 23:37	1		DB-5MS 250 (um)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica TampaJob No.: 680-89275-1SDG No.: 68089275-1Batch Number: 136462Batch Start Date: 04/16/13 07:00Batch Analyst: Nolan, RyanBatch Method: 3546Batch End Date: 04/16/13 15:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136462/1		3546, 8270C LL		15.04 g	1 mL		1 mL		
LCS 660-136462/2		3546, 8270C LL		15.21 g	1 mL	1 mL	1 mL		
680-89275-A-2	CV0877A-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89275-A-2 MS	CV0877A-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89275-A-2 MSD	CV0877A-CS	3546, 8270C LL	T	15.03 g	1 mL	1 mL	1 mL		
680-89275-A-5	CV1086A-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-89275-A-6	CV1086B-GS	3546, 8270C LL	T	1499 g	1 mL		1 mL		
680-89275-A-7	CV1086C-GS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-89275-A-8	CV01088A-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89275-A-9	CV01088B-GS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89275-A-10	CV1090A-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-89275-A-11	CV1090A-CSD	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89275-A-12	CV1091A-CS	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-89275-A-13	CV1357A-CS	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-89275-A-14	CV1357B-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89275-A-15	CV0050A-CS-SP	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-89275-A-16	CV0050B-CS-SP	3546, 8270C LL	T	14.89 g	1 mL		1 mL		
680-89275-A-17	CV0133A-CS-SP	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89275-A-18	CV0133B-CS-SP	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-89275-A-19	CV0318A-CS-SP	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-89275-A-20	CV0318B-CS-SP	3546, 8270C LL	T	14.88 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

Page 1 of 2

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Batch Number: 136462 Batch Start Date: 04/16/13 07:00 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 04/16/13 15:55

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 24
MeCl2/Acetone Lot #	DCM/ACETON
Microwave Start Time	13.30/4/16/13
Microwave Stop Time	14.05/4/16/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 16
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 #1-4
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.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1SDG No.: 68089275-1Batch Number: 136534 Batch Start Date: 04/17/13 12:20 Batch Analyst: Cerome, SaurelBatch Method: 3520C Batch End Date: 04/18/13 07:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136534/1		3520C, 8270C LL		1000 mL	1 mL	8	<2		1 mL
LCS 660-136534/2		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
640-42984-B-1-A MS		3520C, 8270C LL	E	950 mL	1 mL	8	<2	1 mL	1 mL
680-89275-B-1	04113-RB-Bowls + Spoons	3520C, 8270C LL	T	990 mL	1 mL	8	<2		1 mL
680-89275-A-1 DU	04113-RB-Bowls + Spoons	3520C, 8270C LL	T	850 mL	1 mL	8	<2		1 mL

Batch Notes	
Acid used for pH adjustment	10H2S04
Acid used for pH adjust Lot #	EX 10H2S04 _6
Batch Comment	RUSH
Concentration End Time	7.20/4/18/13
Concentration Start Time	6.10/4/18/13
Person's name who did the concentration	AG
Time the first extraction ended 24hr	19.00/4/17/13
Time the first extraction started 24 hr	15.00/4/17/13
pH Paper Lot Number	HC 273036
Prep Solvent Lot #	EX MC CYCL _55
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	SAUREL
Person's name who witnessed reagent drop	AG
Sufficient volume for MS/MSD?	MS ONLY
Water Bath ID	TURBOVAP2#1/2
Water Bath Temperature	40 C Celsius

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.



GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1

SDG No.: 68089275-1

Batch Number: 136534 Batch Start Date: 04/17/13 12:20 Batch Analyst: Cerome, Saurel

Batch Method: 3520C Batch End Date: 04/18/13 07:45

Basis	Basis Description
T	Total/NA
E	SPLP East

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: 680-89275-1

SDG No.: 68089275-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0877A-CS	680-89275-2
CV1086A-CS	680-89275-5
CV1086B-GS	680-89275-6
CV1086C-GS	680-89275-7
CV01088A-CS	680-89275-8
CV01088B-GS	680-89275-9
CV1090A-CS	680-89275-10
CV1090A-CSD	680-89275-11
CV1091A-CS	680-89275-12
CV1357A-CS	680-89275-13
CV1357B-CS	680-89275-14
CV0050A-CS-SP	680-89275-15
CV0050B-CS-SP	680-89275-16
CV0133A-CS-SP	680-89275-17
CV0133B-CS-SP	680-89275-18
CV0318A-CS-SP	680-89275-19
CV0318B-CS-SP	680-89275-20

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89275-1  
SDG Number: 68089275-1  
Matrix: Solid Instrument ID: Moisture  
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89275-1  
SDG Number: 68089275-1  
Matrix: Solid Instrument ID: Moisture  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89275-1  
SDG Number: 68089275-1  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89275-1  
SDG Number: 68089275-1  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1

SDG No.: 68089275-1

Instrument ID: Moisture Method: Moisture

Start Date: 04/15/2013 06:17 End Date: 04/15/2013 11:33

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCSD 660-136438/22	1	T	06:17	X															
LCS 660-136438/1	1	T	06:18	X															
ZZZZZZ			06:22																
ZZZZZZ			06:23																
ZZZZZZ			06:29																
ZZZZZZ			06:30																
ZZZZZZ			06:49																
ZZZZZZ			06:51																
680-89275-2	1	T	07:46	X															
ZZZZZZ			08:07																
680-89275-2 MS	1	T	08:12	X															
680-89275-2 MSD	1	T	08:25	X															
ZZZZZZ			08:35																
ZZZZZZ			08:51																
680-89275-5	1	T	09:15	X															
680-89275-6	1	T	09:36	X															
680-89275-8	1	T	09:49	X															
680-89275-7	1	T	09:51	X															
680-89275-10	1	T	10:27	X															
680-89275-9	1	T	10:45	X															
680-89275-11	1	T	10:52	X															
680-89275-12	1	T	11:33	X															

Prep Types  
T = Total/NA





13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89275-1  
SDG No.: 68089275-1  
Instrument ID: NOEQUIP Method: Moisture  
Start Date: 04/15/2013 11:33 End Date: 04/15/2013 11:33

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1

SDG No.: 68089275-1

Batch Number: 136437 Batch Start Date: 04/15/13 11:33 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89275-A-21 MS		Moisture	T	1	0 g	4.82 g	3.61 g		
680-89275-A-21 MSD		Moisture	T	1	0 g	4.82 g	3.61 g		
680-89275-A-19	CV0318A-CS-SP	Moisture	T	2	0 g	4.51 g	3.09 g		
680-89275-A-20	CV0318B-CS-SP	Moisture	T	6	0 g	4.74 g	3.87 g		
680-89275-A-17	CV0133A-CS-SP	Moisture	T	7	0 g	4.33 g	3.52 g		
680-89275-A-15	CV0050A-CS-SP	Moisture	T	8	0 g	4.47 g	3.59 g		
680-89275-A-18	CV0133B-CS-SP	Moisture	T	9	0 g	5.56 g	4.60 g		
680-89275-A-13	CV1357A-CS	Moisture	T	10	0 g	5.41 g	3.96 g		
680-89275-A-16	CV0050B-CS-SP	Moisture	T	11	0 g	4.48 g	3.73 g		
680-89275-A-14	CV1357B-CS	Moisture	T	12	0 g	4.33 g	3.45 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.15.13

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-1

SDG No.: 68089275-1

Batch Number: 136438 Batch Start Date: 04/15/13 06:17 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-136438/1		Moisture		0 g	10.025 g	9.033 g			
680-89275-A-2 MSD	CV0877A-CS	Moisture	T	0 g	4.253 g	3.449 g			
680-89275-A-5	CV1086A-CS	Moisture	T	0 g	4.421 g	3.185 g			
680-89275-A-7	CV1086C-GS	Moisture	T	0 g	4.268 g	3.104 g			
680-89275-A-9	CV01088B-GS	Moisture	T	0 g	4.786 g	2.912 g			
680-89275-A-12	CV1091A-CS	Moisture	T	0 g	4.579 g	2.584 g			
680-89275-A-11	CV1090A-CSD	Moisture	T	0 g	4.583 g	3.606 g			
680-89275-A-10	CV1090A-CS	Moisture	T	0 g	4.519 g	3.451 g			
680-89275-A-8	CV01088A-CS	Moisture	T	0 g	4.765 g	3.856 g			
680-89275-A-6	CV1086B-GS	Moisture	T	0 g	4.875 g	3.672 g			
680-89275-A-2 MS	CV0877A-CS	Moisture	T	0 g	4.504 g	3.692 g			
680-89275-A-2	CV0877A-CS	Moisture	T	0 g	4.657 g	3.706 g			
LCSD 660-136438/22		Moisture		0 g	10.033 g	9.04 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

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>35<sup>th</sup> Ave. Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i> OF <i>3</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*

*RCFH8 Metals*

**PRESERVATIVE**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
DATE DUE \_\_\_\_\_

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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		11	12				
<i>4-11-13</i>	<i>0810</i>	<i>041113-RB-Bowls &amp; Spoons</i>	<i>X</i>					<i>X</i>	<i>X</i>															
<i>4-10-13</i>	<i>1415</i>	<i>CV 0877A-CS</i>	<i>R</i>	<i>X</i>				<i>X</i>	<i>X</i>															
	<i>1300</i>	<i>CV 0951A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																<i>Cancel per client 4-12-13 (limit)</i>
	<i>1300</i>	<i>CV 0951A-CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>																<i>Cancel per client 4-12-13 (limit)</i>
	<i>0950</i>	<i>CV 1086A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>															
	<i>1000</i>	<i>CV 1086B-GS</i>	<i>G</i>	<i>X</i>				<i>X</i>																
	<i>1010</i>	<i>CV 1086C-GS</i>	<i>G</i>	<i>X</i>				<i>X</i>																
	<i>0920</i>	<i>CV 1088A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>0930</i>	<i>CV 1088B-GS</i>	<i>G</i>	<i>X</i>				<i>X</i>																
	<i>0840</i>	<i>CV 1090A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>0840</i>	<i>CV 1090A-CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>0900</i>	<i>CV 1091A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>															

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-11-13</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

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/12/13</i>	TIME <i>0950</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89275</i>	LABORATORY REMARKS <i>2.2<sup>cc</sup></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>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>3</i>
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<b>(b) (6)</b>	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NON-AQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
					<i>LL PAH</i>	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)	<b>PRESERVATIVE</b>	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NON-AQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
<i>4-10-B</i>	<i>1325</i>	<i>CV1357A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1335</i>	<i>CV1357B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1045</i>	<i>CV0650A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1056</i>	<i>CV0650B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0948</i>	<i>CV0133A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1005</i>	<i>CV0133B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1435</i>	<i>CV0318A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1445</i>	<i>CV0318B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0855</i>	<i>CV0661A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0915</i>	<i>CV0661B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0906</i>	<i>CV0661C-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1355</i>	<i>CV0886A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-11-13</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>04/12/13</i>	TIME <i>0950</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH <i>680</i> LOG NO. <i>89275</i>	LABORATORY REMARKS <i>2.2 u c</i>	

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

SDG Number: 68089275-1

Login Number: 89275

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: 680-89275-1

SDG Number: 68089275-1

**Login Number: 89275**

**List Source: TestAmerica Tampa**

**List Number: 1**

**List Creation: 04/13/13 11:04 AM**

**Creator: Edwards, Erricka**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# 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: 680-89275-1

TestAmerica Sample Delivery Group: 68089275-1  
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 9:17:17 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

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

1

2

3

4

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9

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11

12

# Case Narrative

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

TestAmerica Job ID: 680-89275-1  
SDG: 68089275-1

**Job ID: 680-89275-1**

**Laboratory: TestAmerica Savannah**

Narrative

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89275-1**

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 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV1086B-GS (680-89275-6), CV1086C-GS (680-89275-7), CV01088A-CS (680-89275-8), CV01088B-GS (680-89275-9), CV1090A-CS (680-89275-10), CV1090A-CSD (680-89275-11), CV1091A-CS (680-89275-12), CV1357A-CS (680-89275-13), CV1357B-CS (680-89275-14), CV0050A-CS-SP (680-89275-15), CV0050B-CS-SP (680-89275-16), CV0133A-CS-SP (680-89275-17), CV0133B-CS-SP (680-89275-18), CV0318A-CS-SP (680-89275-19) and CV0318B-CS-SP (680-89275-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/16/2013 and analyzed on 04/17/2013.

Samples CV1086A-CS (680-89275-5)[4X], CV1086B-GS (680-89275-6)[4X], CV1086C-GS (680-89275-7)[4X], CV1090A-CS (680-89275-10)[20X], CV1090A-CS (680-89275-10)[4X] and CV1357B-CS (680-89275-14)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 660-136590. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

### SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013.

Sample (680-89275-1 DU) had less than 900mLs available for extraction is 8270LL. Batch: 136534. Detection limits are elevated accordingly.

No difficulties were encountered during the semivolatiles analysis.

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: 680-89275-1  
SDG: 68089275-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89275-1	041113-RB-Bowls + Spoons	Water	04/11/13 08:10	04/12/13 09:50
680-89275-2	CV0877A-CS	Solid	04/10/13 14:15	04/12/13 09:50
680-89275-5	CV1086A-CS	Solid	04/10/13 09:50	04/12/13 09:50
680-89275-6	CV1086B-GS	Solid	04/10/13 10:00	04/12/13 09:50
680-89275-7	CV1086C-GS	Solid	04/10/13 10:10	04/12/13 09:50
680-89275-8	CV01088A-CS	Solid	04/10/13 09:20	04/12/13 09:50
680-89275-9	CV01088B-GS	Solid	04/10/13 09:30	04/12/13 09:50
680-89275-10	CV1090A-CS	Solid	04/10/13 08:40	04/12/13 09:50
680-89275-11	CV1090A-CSD	Solid	04/10/13 08:40	04/12/13 09:50
680-89275-12	CV1091A-CS	Solid	04/10/13 09:00	04/12/13 09:50
680-89275-13	CV1357A-CS	Solid	04/10/13 13:25	04/12/13 09:50
680-89275-14	CV1357B-CS	Solid	04/10/13 13:35	04/12/13 09:50
680-89275-15	CV0050A-CS-SP	Solid	04/10/13 10:45	04/12/13 09:50
680-89275-16	CV0050B-CS-SP	Solid	04/10/13 10:56	04/12/13 09:50
680-89275-17	CV0133A-CS-SP	Solid	04/10/13 09:48	04/12/13 09:50
680-89275-18	CV0133B-CS-SP	Solid	04/10/13 10:05	04/12/13 09:50
680-89275-19	CV0318A-CS-SP	Solid	04/10/13 14:35	04/12/13 09:50
680-89275-20	CV0318B-CS-SP	Solid	04/10/13 14:45	04/12/13 09:50

# Method Summary

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

TestAmerica Job ID: 680-89275-1  
SDG: 68089275-1

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: 680-89275-1  
SDG: 68089275-1

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: 04113-RB-Bowls + Spoons**

**Lab Sample ID: 680-89275-1**

Date Collected: 04/11/13 08:10

Matrix: Water

Date Received: 04/12/13 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		04/17/13 12:20	04/18/13 15:22	1
Anthracene	0.20	U	0.20	0.077	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[a]anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[a]pyrene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[b]fluoranthene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[g,h,i]perylene	0.51	U	0.51	0.10	ug/L		04/17/13 12:20	04/18/13 15:22	1
Benzo[k]fluoranthene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 15:22	1
Chrysene	0.20	U	0.20	0.070	ug/L		04/17/13 12:20	04/18/13 15:22	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
Fluoranthene	0.51	U	0.51	0.055	ug/L		04/17/13 12:20	04/18/13 15:22	1
Fluorene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 15:22	1
1-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
2-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 15:22	1
Naphthalene	2.0	U	2.0	0.25	ug/L		04/17/13 12:20	04/18/13 15:22	1
Phenanthrene	0.51	U	0.51	0.20	ug/L		04/17/13 12:20	04/18/13 15:22	1
Pyrene	0.51	U	0.51	0.090	ug/L		04/17/13 12:20	04/18/13 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130	04/17/13 12:20	04/18/13 15:22	1

**Client Sample ID: CV0877A-CS**

**Lab Sample ID: 680-89275-2**

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U F	130	25	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Acenaphthylene</b>	<b>100</b>	<b>F</b>	50	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Anthracene</b>	<b>79</b>	<b>F</b>	11	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Benzo[a]anthracene</b>	<b>340</b>	<b>F</b>	10	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Benzo[a]pyrene</b>	<b>300</b>	<b>F</b>	13	6.5	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Benzo[b]fluoranthene</b>	<b>580</b>	<b>F</b>	15	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Benzo[g,h,i]perylene</b>	<b>290</b>	<b>F</b>	25	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Benzo[k]fluoranthene</b>	<b>230</b>	<b>F</b>	10	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Chrysene</b>	<b>470</b>	<b>F</b>	11	5.7	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Dibenz(a,h)anthracene</b>	<b>140</b>	<b>F</b>	25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Fluoranthene</b>	<b>450</b>	<b>F</b>	25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Fluorene</b>	<b>26</b>		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>260</b>	<b>F</b>	25	8.9	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>1-Methylnaphthalene</b>	<b>360</b>		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>2-Methylnaphthalene</b>	<b>340</b>		50	8.9	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Naphthalene</b>	<b>240</b>		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Phenanthrene</b>	<b>460</b>	<b>F</b>	10	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1
<b>Pyrene</b>	<b>440</b>	<b>F</b>	25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	45		30 - 130	04/16/13 07:00	04/17/13 11:31	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV1086A-CS**

**Lab Sample ID: 680-89275-5**

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

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	560	U	560	110	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Acenaphthylene</b>	<b>70</b>	<b>J</b>	220	28	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Anthracene</b>	<b>130</b>		47	23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[a]anthracene</b>	<b>420</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[a]pyrene</b>	<b>280</b>		58	29	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[b]fluoranthene</b>	<b>550</b>		68	34	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[g,h,i]perylene</b>	<b>310</b>		110	24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Benzo[k]fluoranthene</b>	<b>170</b>		44	20	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Chrysene</b>	<b>520</b>		50	25	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Fluoranthene</b>	<b>510</b>		110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Fluorene</b>	<b>46</b>	<b>J</b>	110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>400</b>		110	39	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>1-Methylnaphthalene</b>	<b>380</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>2-Methylnaphthalene</b>	<b>610</b>		220	39	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Naphthalene</b>	<b>340</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Phenanthrene</b>	<b>640</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<b>Pyrene</b>	<b>490</b>		110	21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:26	4
<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				04/16/13 07:00	04/17/13 12:26	4

**Client Sample ID: CV1086B-GS**

**Lab Sample ID: 680-89275-6**

Date Collected: 04/10/13 10:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.3	U	5.3	1.1	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Acenaphthylene</b>	<b>0.36</b>	<b>J</b>	2.1	0.27	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Anthracene</b>	<b>0.49</b>		0.45	0.22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[a]anthracene</b>	<b>1.9</b>		0.43	0.21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[a]pyrene</b>	<b>1.2</b>		0.55	0.28	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[b]fluoranthene</b>	<b>1.8</b>		0.65	0.32	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[g,h,i]perylene</b>	<b>1.4</b>		1.1	0.23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Benzo[k]fluoranthene</b>	<b>1.0</b>		0.43	0.19	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Chrysene</b>	<b>1.8</b>		0.48	0.24	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
Dibenz(a,h)anthracene	1.1	U	1.1	0.22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Fluoranthene</b>	<b>1.9</b>		1.1	0.21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Fluorene</b>	<b>0.24</b>	<b>J</b>	1.1	0.22	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>3.2</b>		1.1	0.38	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>1-Methylnaphthalene</b>	<b>2.0</b>	<b>J</b>	2.1	0.23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>2-Methylnaphthalene</b>	<b>3.6</b>		2.1	0.38	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Naphthalene</b>	<b>2.3</b>		2.1	0.23	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Phenanthrene</b>	<b>2.5</b>		0.43	0.21	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<b>Pyrene</b>	<b>2.4</b>		1.1	0.20	ug/Kg	☼	04/16/13 07:00	04/17/13 12:44	4
<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	61		30 - 130				04/16/13 07:00	04/17/13 12:44	4

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV1086C-GS**

**Lab Sample ID: 680-89275-7**

Date Collected: 04/10/13 10:10

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Acenaphthylene</b>	<b>51</b>	<b>J</b>	220	28	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Anthracene</b>	<b>99</b>		46	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[a]anthracene</b>	<b>360</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[a]pyrene</b>	<b>230</b>		57	29	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[b]fluoranthene</b>	<b>420</b>		67	34	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[g,h,i]perylene</b>	<b>260</b>		110	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Benzo[k]fluoranthene</b>	<b>190</b>		44	20	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Chrysene</b>	<b>510</b>		50	25	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Fluoranthene</b>	<b>400</b>		110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Fluorene</b>	<b>120</b>		110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>450</b>		110	39	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>1-Methylnaphthalene</b>	<b>760</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>2-Methylnaphthalene</b>	<b>770</b>		220	39	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Naphthalene</b>	<b>510</b>		220	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Phenanthrene</b>	<b>720</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<b>Pyrene</b>	<b>440</b>		110	20	ug/Kg	☼	04/16/13 07:00	04/17/13 13:03	4
<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	65		30 - 130				04/16/13 07:00	04/17/13 13:03	4

**Client Sample ID: CV01088A-CS**

**Lab Sample ID: 680-89275-8**

Date Collected: 04/10/13 09:20

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Acenaphthylene</b>	<b>33</b>	<b>J</b>	50	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Anthracene</b>	<b>42</b>		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[a]anthracene</b>	<b>150</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[a]pyrene</b>	<b>150</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[b]fluoranthene</b>	<b>310</b>		15	7.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[g,h,i]perylene</b>	<b>170</b>		25	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Benzo[k]fluoranthene</b>	<b>98</b>		9.9	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Chrysene</b>	<b>270</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
Dibenz(a,h)anthracene	78		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Fluoranthene</b>	<b>180</b>		25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Fluorene</b>	<b>23</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>170</b>		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>1-Methylnaphthalene</b>	<b>200</b>		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>2-Methylnaphthalene</b>	<b>240</b>		50	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Naphthalene</b>	<b>140</b>		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Phenanthrene</b>	<b>280</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	1
<b>Pyrene</b>	<b>180</b>		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:21	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				04/16/13 07:00	04/17/13 13:21	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV01088B-GS**

**Lab Sample ID: 680-89275-9**

Date Collected: 04/10/13 09:30

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 60.8

**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	☼	04/16/13 07:00	04/17/13 13:39	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Anthracene</b>	<b>12</b>	<b>J</b>	14	6.9	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[a]anthracene</b>	<b>39</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[a]pyrene</b>	<b>33</b>		17	8.5	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[b]fluoranthene</b>	<b>76</b>		20	10	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[g,h,i]perylene</b>	<b>36</b>		33	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Benzo[k]fluoranthene</b>	<b>24</b>		13	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Chrysene</b>	<b>52</b>		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
Dibenz(a,h)anthracene	33	U	33	6.7	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Fluoranthene</b>	<b>41</b>		33	6.6	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
Fluorene	33	U	33	6.7	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		33	12	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>1-Methylnaphthalene</b>	<b>23</b>	<b>J</b>	66	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>2-Methylnaphthalene</b>	<b>73</b>		66	12	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Naphthalene</b>	<b>38</b>	<b>J</b>	66	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Phenanthrene</b>	<b>40</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	1
<b>Pyrene</b>	<b>36</b>		33	6.1	ug/Kg	☼	04/16/13 07:00	04/17/13 13:39	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	54		30 - 130				04/16/13 07:00	04/17/13 13:39	1

**Client Sample ID: CV1090A-CS**

**Lab Sample ID: 680-89275-10**

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>3700</b>		530	110	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Acenaphthylene</b>	<b>850</b>		210	26	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Anthracene</b>	<b>5600</b>		44	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[a]anthracene</b>	<b>14000</b>		42	21	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[a]pyrene</b>	<b>10000</b>		55	27	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[g,h,i]perylene</b>	<b>6100</b>		110	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Benzo[k]fluoranthene</b>	<b>8400</b>		42	19	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Chrysene</b>	<b>14000</b>		47	24	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Dibenz(a,h)anthracene</b>	<b>2400</b>		110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Fluorene</b>	<b>4100</b>		110	22	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>5200</b>		110	37	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>1-Methylnaphthalene</b>	<b>1100</b>		210	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>2-Methylnaphthalene</b>	<b>1600</b>		210	37	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<b>Naphthalene</b>	<b>3200</b>		210	23	ug/Kg	☼	04/16/13 07:00	04/17/13 13:58	4
<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	67		30 - 130				04/16/13 07:00	04/17/13 13:58	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[b]fluoranthene</b>	<b>17000</b>		320	160	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20
<b>Fluoranthene</b>	<b>31000</b>		530	110	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: CV1090A-CS

Lab Sample ID: 680-89275-10

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	33000		210	100	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20
Pyrene	24000		530	97	ug/Kg	☼	04/16/13 07:00	04/17/13 18:14	20

## Client Sample ID: CV1090A-CSD

Lab Sample ID: 680-89275-11

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	J	130	25	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Acenaphthylene	46	J	51	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Anthracene	50		11	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[a]anthracene	350		10	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[a]pyrene	240		13	6.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[b]fluoranthene	570		15	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[g,h,i]perylene	260		25	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Benzo[k]fluoranthene	170		10	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Chrysene	810		11	5.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Dibenz(a,h)anthracene	140		25	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Fluoranthene	460		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Fluorene	77		25	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Indeno[1,2,3-cd]pyrene	200		25	9.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
1-Methylnaphthalene	620		51	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
2-Methylnaphthalene	720		51	9.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Naphthalene	380		51	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Phenanthrene	890		10	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	1
Pyrene	430		25	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:16	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	67		30 - 130				04/16/13 07:00	04/17/13 14:16	1

## Client Sample ID: CV1091A-CS

Lab Sample ID: 680-89275-12

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 56.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Acenaphthylene	70	U	70	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Anthracene	15	U	15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[a]anthracene	51		14	6.8	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[a]pyrene	9.9	J	18	9.1	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[b]fluoranthene	36		21	11	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[g,h,i]perylene	37		35	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Benzo[k]fluoranthene	12	J	14	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Chrysene	38		16	7.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Dibenz(a,h)anthracene	35	U	35	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Fluoranthene	24	J	35	7.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Fluorene	35	U	35	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Indeno[1,2,3-cd]pyrene	35	U	35	12	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV1091A-CS**

**Lab Sample ID: 680-89275-12**

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 56.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	49	J	70	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
2-Methylnaphthalene	110		70	12	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Naphthalene	87		70	7.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Phenanthrene	37		14	6.8	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	1
Pyrene	18	J	35	6.5	ug/Kg	☼	04/16/13 07:00	04/17/13 14:34	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	57		30 - 130				04/16/13 07:00	04/17/13 14:34	1

**Client Sample ID: CV1357A-CS**

**Lab Sample ID: 680-89275-13**

Date Collected: 04/10/13 13:25

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Acenaphthylene	33	J	54	6.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Anthracene	55		11	5.7	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[a]anthracene	240		11	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[a]pyrene	230		14	7.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[b]fluoranthene	380		16	8.2	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[g,h,i]perylene	160		27	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Benzo[k]fluoranthene	120		11	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Chrysene	270		12	6.1	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Dibenz(a,h)anthracene	78		27	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Fluoranthene	370		27	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Fluorene	33		27	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Indeno[1,2,3-cd]pyrene	180		27	9.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
1-Methylnaphthalene	130		54	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
2-Methylnaphthalene	210		54	9.6	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Naphthalene	130		54	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Phenanthrene	310		11	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	1
Pyrene	280		27	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 14:53	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	39		30 - 130				04/16/13 07:00	04/17/13 14:53	1

**Client Sample ID: CV1357B-CS**

**Lab Sample ID: 680-89275-14**

Date Collected: 04/10/13 13:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Anthracene	31	J	42	21	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[a]anthracene	250		40	20	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[a]pyrene	240		52	26	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[b]fluoranthene	240		61	31	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Benzo[g,h,i]perylene	210		100	22	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: CV1357B-CS

Lab Sample ID: 680-89275-14

Date Collected: 04/10/13 13:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.7

### 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	220		40	18	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Chrysene	330		45	23	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Fluoranthene	340		100	20	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Fluorene	100	U	100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Indeno[1,2,3-cd]pyrene	320		100	36	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
1-Methylnaphthalene	160	J	200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
2-Methylnaphthalene	290		200	36	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Phenanthrene	310		40	20	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
Pyrene	290		100	19	ug/Kg	☼	04/16/13 07:00	04/17/13 15:11	4
<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	57		30 - 130				04/16/13 07:00	04/17/13 15:11	4

## Client Sample ID: CV0050A-CS-SP

Lab Sample ID: 680-89275-15

Date Collected: 04/10/13 10:45

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Acenaphthylene	19	J	50	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Anthracene	50		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[a]anthracene	170		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[a]pyrene	120		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[b]fluoranthene	280		15	7.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[g,h,i]perylene	120		25	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Benzo[k]fluoranthene	79		9.9	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Chrysene	290		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Dibenz(a,h)anthracene	78		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Fluoranthene	230		25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Fluorene	32		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Indeno[1,2,3-cd]pyrene	160		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
1-Methylnaphthalene	130		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
2-Methylnaphthalene	170		50	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Naphthalene	130		50	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Phenanthrene	220		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	1
Pyrene	220		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:29	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	51		30 - 130				04/16/13 07:00	04/17/13 15:29	1

## Client Sample ID: CV0050B-CS-SP

Lab Sample ID: 680-89275-16

Date Collected: 04/10/13 10:56

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV0050B-CS-SP**

**Lab Sample ID: 680-89275-16**

Date Collected: 04/10/13 10:56

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	43	J	48	6.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Anthracene	30		10	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[a]anthracene	200		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[a]pyrene	210		13	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[b]fluoranthene	400		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[g,h,i]perylene	180		24	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Benzo[k]fluoranthene	110		9.7	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Chrysene	340		11	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Dibenz(a,h)anthracene	110		24	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Fluoranthene	280		24	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Fluorene	33		24	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Indeno[1,2,3-cd]pyrene	160		24	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
1-Methylnaphthalene	120		48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
2-Methylnaphthalene	160		48	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Naphthalene	160		48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Phenanthrene	300		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	1
Pyrene	280		24	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 15:48	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	56		30 - 130				04/16/13 07:00	04/17/13 15:48	1

**Client Sample ID: CV0133A-CS-SP**

**Lab Sample ID: 680-89275-17**

Date Collected: 04/10/13 09:48

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Acenaphthylene	36	J	49	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Anthracene	43		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[a]anthracene	170		9.8	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[a]pyrene	150		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[b]fluoranthene	310		15	7.5	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[g,h,i]perylene	150		25	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Benzo[k]fluoranthene	97		9.8	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Chrysene	270		11	5.5	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Dibenz(a,h)anthracene	69		25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Fluoranthene	290		25	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Fluorene	15	J	25	5.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Indeno[1,2,3-cd]pyrene	140		25	8.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
1-Methylnaphthalene	110		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
2-Methylnaphthalene	150		49	8.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Naphthalene	91		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Phenanthrene	280		9.8	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	1
Pyrene	250		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:06	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	57		30 - 130				04/16/13 07:00	04/17/13 16:06	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV0133B-CS-SP**

**Lab Sample ID: 680-89275-18**

Date Collected: 04/10/13 10:05

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Anthracene</b>	<b>11</b>		10	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[a]anthracene</b>	<b>60</b>		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[a]pyrene</b>	<b>46</b>		13	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[b]fluoranthene</b>	<b>84</b>		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[g,h,i]perylene</b>	<b>56</b>		24	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Benzo[k]fluoranthene</b>	<b>44</b>		9.7	4.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Chrysene</b>	<b>54</b>		11	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
Dibenz(a,h)anthracene	24	U	24	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Fluoranthene</b>	<b>66</b>		24	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Fluorene</b>	<b>5.2</b>	J	24	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>77</b>		24	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>1-Methylnaphthalene</b>	<b>25</b>	J	48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>2-Methylnaphthalene</b>	<b>48</b>		48	8.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Naphthalene</b>	<b>32</b>	J	48	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Phenanthrene</b>	<b>58</b>		9.7	4.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	1
<b>Pyrene</b>	<b>56</b>		24	4.5	ug/Kg	☼	04/16/13 07:00	04/17/13 16:24	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	67		30 - 130				04/16/13 07:00	04/17/13 16:24	1

**Client Sample ID: CV0318A-CS-SP**

**Lab Sample ID: 680-89275-19**

Date Collected: 04/10/13 14:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 68.5

**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	☼	04/16/13 07:00	04/17/13 16:43	1
Acenaphthylene	57	U	57	7.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
Anthracene	12	U	12	6.0	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[a]anthracene</b>	<b>57</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[a]pyrene</b>	<b>49</b>		15	7.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[b]fluoranthene</b>	<b>78</b>		17	8.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[g,h,i]perylene</b>	<b>45</b>		29	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Benzo[k]fluoranthene</b>	<b>31</b>		11	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Chrysene</b>	<b>56</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
Dibenz(a,h)anthracene	29	U	29	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Fluoranthene</b>	<b>48</b>		29	5.7	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Fluorene</b>	<b>13</b>	J	29	5.9	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		29	10	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>1-Methylnaphthalene</b>	<b>26</b>	J	57	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>2-Methylnaphthalene</b>	<b>54</b>	J	57	10	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Naphthalene</b>	<b>33</b>	J	57	6.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Phenanthrene</b>	<b>68</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	1
<b>Pyrene</b>	<b>43</b>		29	5.3	ug/Kg	☼	04/16/13 07:00	04/17/13 16:43	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	40		30 - 130				04/16/13 07:00	04/17/13 16:43	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

**Client Sample ID: CV0318B-CS-SP**

**Lab Sample ID: 680-89275-20**

Date Collected: 04/10/13 14:45

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Acenaphthylene</b>	<b>9.6</b>	<b>J</b>	49	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Anthracene</b>	<b>32</b>		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[a]anthracene</b>	<b>78</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[a]pyrene</b>	<b>100</b>		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		15	7.5	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[g,h,i]perylene</b>	<b>140</b>		25	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Benzo[k]fluoranthene</b>	<b>49</b>		9.9	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Chrysene</b>	<b>140</b>		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Dibenz(a,h)anthracene</b>	<b>75</b>		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Fluoranthene</b>	<b>150</b>		25	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Fluorene</b>	<b>10</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>120</b>		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>1-Methylnaphthalene</b>	<b>26</b>	<b>J</b>	49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>2-Methylnaphthalene</b>	<b>70</b>		49	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Naphthalene</b>	<b>78</b>		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Phenanthrene</b>	<b>110</b>		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	1
<b>Pyrene</b>	<b>110</b>		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:01	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	56		30 - 130				04/16/13 07:00	04/17/13 17:01	1



# QC Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

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

**Lab Sample ID: MB 660-136462/1-A**

**Matrix: Solid**

**Analysis Batch: 136590**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136462**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Fluorene	20	U	20	4.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Naphthalene	40	U	40	4.4	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Pyrene	20	U	20	3.7	ug/Kg		04/16/13 07:00	04/17/13 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130	04/16/13 07:00	04/17/13 10:54	1

**Lab Sample ID: LCS 660-136462/2-A**

**Matrix: Solid**

**Analysis Batch: 136590**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136462**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	657	354		ug/Kg		54	39 - 130
Acenaphthylene	657	363		ug/Kg		55	38 - 130
Anthracene	657	424		ug/Kg		65	37 - 130
Benzo[a]anthracene	657	398		ug/Kg		61	40 - 130
Benzo[a]pyrene	657	358		ug/Kg		54	49 - 130
Benzo[b]fluoranthene	657	432		ug/Kg		66	37 - 130
Benzo[g,h,i]perylene	657	399		ug/Kg		61	32 - 130
Benzo[k]fluoranthene	657	380		ug/Kg		58	32 - 130
Chrysene	657	402		ug/Kg		61	41 - 130
Dibenz(a,h)anthracene	657	426		ug/Kg		65	27 - 130
Fluoranthene	657	381		ug/Kg		58	40 - 130
Fluorene	657	395		ug/Kg		60	40 - 130
Indeno[1,2,3-cd]pyrene	657	392		ug/Kg		60	30 - 130
1-Methylnaphthalene	657	392		ug/Kg		60	31 - 130
2-Methylnaphthalene	657	388		ug/Kg		59	33 - 130
Naphthalene	657	381		ug/Kg		58	36 - 130
Phenanthrene	657	391		ug/Kg		59	42 - 130
Pyrene	657	394		ug/Kg		60	44 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

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

**Lab Sample ID: LCS 660-136462/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136590**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 136462**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	64		30 - 130

**Lab Sample ID: 680-89275-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 136590**

**Client Sample ID: CV0877A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 136462**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Acenaphthene	130	U F	840	342		ug/Kg	☼	41		39 - 130
Acenaphthylene	100	F	840	376	F	ug/Kg	☼	32		38 - 130
Anthracene	79	F	840	367	F	ug/Kg	☼	34		37 - 130
Benzo[a]anthracene	340	F	840	608	F	ug/Kg	☼	32		40 - 130
Benzo[a]pyrene	300	F	840	496	F	ug/Kg	☼	23		49 - 130
Benzo[b]fluoranthene	580	F	840	747	F	ug/Kg	☼	19		37 - 130
Benzo[g,h,i]perylene	290	F	840	440	F	ug/Kg	☼	18		32 - 130
Benzo[k]fluoranthene	230	F	840	482	F	ug/Kg	☼	30		32 - 130
Chrysene	470	F	840	686	F	ug/Kg	☼	26		41 - 130
Dibenz(a,h)anthracene	140	F	840	347	F	ug/Kg	☼	25		27 - 130
Fluoranthene	450	F	840	634	F	ug/Kg	☼	22		40 - 130
Fluorene	26		840	368		ug/Kg	☼	41		40 - 130
Indeno[1,2,3-cd]pyrene	260	F	840	432	F	ug/Kg	☼	21		30 - 130
1-Methylnaphthalene	360		840	681		ug/Kg	☼	39		31 - 130
2-Methylnaphthalene	340		840	648		ug/Kg	☼	37		33 - 130
Naphthalene	240		840	539		ug/Kg	☼	36		36 - 130
Phenanthrene	460	F	840	668	F	ug/Kg	☼	25		42 - 130
Pyrene	440	F	840	673	F	ug/Kg	☼	27		44 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	36		30 - 130

**Lab Sample ID: 680-89275-2 MSD**  
**Matrix: Solid**  
**Analysis Batch: 136590**

**Client Sample ID: CV0877A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 136462**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	130	U F	836	316	F	ug/Kg	☼	38		39 - 130	8	40
Acenaphthylene	100	F	836	416	F	ug/Kg	☼	37		38 - 130	10	40
Anthracene	79	F	836	422		ug/Kg	☼	41		37 - 130	14	40
Benzo[a]anthracene	340	F	836	749		ug/Kg	☼	49		40 - 130	21	40
Benzo[a]pyrene	300	F	836	623	F	ug/Kg	☼	38		49 - 130	23	40
Benzo[b]fluoranthene	580	F	836	939		ug/Kg	☼	42		37 - 130	23	40
Benzo[g,h,i]perylene	290	F	836	547	F	ug/Kg	☼	31		32 - 130	22	40
Benzo[k]fluoranthene	230	F	836	638		ug/Kg	☼	49		32 - 130	28	40
Chrysene	470	F	836	867		ug/Kg	☼	48		41 - 130	23	40
Dibenz(a,h)anthracene	140	F	836	352	F	ug/Kg	☼	26		27 - 130	2	40
Fluoranthene	450	F	836	1120	F	ug/Kg	☼	80		40 - 130	56	40
Fluorene	26		836	376		ug/Kg	☼	42		40 - 130	2	40
Indeno[1,2,3-cd]pyrene	260	F	836	518		ug/Kg	☼	31		30 - 130	18	40
1-Methylnaphthalene	360		836	714		ug/Kg	☼	43		31 - 130	5	40

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

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

**Lab Sample ID: 680-89275-2 MSD**

**Matrix: Solid**

**Analysis Batch: 136590**

**Client Sample ID: CV0877A-CS**

**Prep Type: Total/NA**

**Prep Batch: 136462**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Methylnaphthalene	340		836	766		ug/Kg	✱	51	33 - 130	17	40
Naphthalene	240		836	657		ug/Kg	✱	50	36 - 130	20	40
Phenanthrene	460	F	836	1020	F	ug/Kg	✱	67	42 - 130	41	40
Pyrene	440	F	836	1090	F	ug/Kg	✱	77	44 - 130	48	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>o</i> -Terphenyl	39		30 - 130								

**Lab Sample ID: MB 660-136534/1-A**

**Matrix: Water**

**Analysis Batch: 136605**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136534**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		04/17/13 12:20	04/18/13 12:37	1
Anthracene	0.20	U	0.20	0.076	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		04/17/13 12:20	04/18/13 12:37	1
Chrysene	0.20	U	0.20	0.069	ug/L		04/17/13 12:20	04/18/13 12:37	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		04/17/13 12:20	04/18/13 12:37	1
Fluorene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
Naphthalene	2.0	U	2.0	0.25	ug/L		04/17/13 12:20	04/18/13 12:37	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		04/17/13 12:20	04/18/13 12:37	1
Pyrene	0.50	U	0.50	0.089	ug/L		04/17/13 12:20	04/18/13 12:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
<i>o</i> -Terphenyl	67		30 - 130			04/17/13 12:20	04/18/13 12:37	1	

**Lab Sample ID: LCS 660-136534/2-A**

**Matrix: Water**

**Analysis Batch: 136605**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136534**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Acenaphthene	10.0	7.86		ug/L		79	55 - 132
Acenaphthylene	10.0	8.60		ug/L		86	39 - 130
Anthracene	10.0	7.92		ug/L		79	39 - 130
Benzo[a]anthracene	10.0	8.02		ug/L		80	54 - 135
Benzo[a]pyrene	10.0	5.44		ug/L		54	21 - 130
Benzo[b]fluoranthene	10.0	6.24		ug/L		62	37 - 130
Benzo[g,h,i]perylene	10.0	4.04		ug/L		40	26 - 130
Benzo[k]fluoranthene	10.0	6.17		ug/L		62	38 - 130

TestAmerica Savannah

## QC Sample Results

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

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

**Lab Sample ID: LCS 660-136534/2-A**

**Matrix: Water**

**Analysis Batch: 136605**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136534**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	10.0	7.37		ug/L		74	56 - 130
Dibenz(a,h)anthracene	10.0	4.51		ug/L		45	13 - 130
Fluoranthene	10.0	7.98		ug/L		80	60 - 130
Fluorene	10.0	9.15		ug/L		91	55 - 140
Indeno[1,2,3-cd]pyrene	10.0	4.49		ug/L		45	21 - 130
1-Methylnaphthalene	10.0	6.89		ug/L		69	49 - 130
2-Methylnaphthalene	10.0	7.46		ug/L		75	48 - 130
Naphthalene	10.0	7.43		ug/L		74	54 - 133
Phenanthrene	10.0	7.98		ug/L		80	60 - 136
Pyrene	10.0	7.79		ug/L		78	60 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	79		30 - 130

**Lab Sample ID: 680-89275-1 DU**

**Matrix: Water**

**Analysis Batch: 136605**

**Client Sample ID: 04113-RB-Bowls + Spoons**

**Prep Type: Total/NA**

**Prep Batch: 136534**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Acenaphthene	2.0	U	2.4	U	ug/L		NC	35
Acenaphthylene	1.0	U	1.2	U	ug/L		NC	35
Anthracene	0.20	U	0.24	U	ug/L		NC	35
Benzo[a]anthracene	0.20	U	0.24	U	ug/L		NC	35
Benzo[a]pyrene	0.20	U	0.24	U	ug/L		NC	35
Benzo[b]fluoranthene	0.20	U	0.24	U	ug/L		NC	35
Benzo[g,h,i]perylene	0.51	U	0.59	U	ug/L		NC	35
Benzo[k]fluoranthene	0.20	U	0.24	U	ug/L		NC	35
Chrysene	0.20	U	0.24	U	ug/L		NC	35
Dibenz(a,h)anthracene	0.20	U	0.24	U	ug/L		NC	35
Fluoranthene	0.51	U	0.59	U	ug/L		NC	35
Fluorene	2.0	U	2.4	U	ug/L		NC	35
Indeno[1,2,3-cd]pyrene	0.20	U	0.24	U	ug/L		NC	35
1-Methylnaphthalene	2.0	U	2.4	U	ug/L		NC	35
2-Methylnaphthalene	2.0	U	2.4	U	ug/L		NC	35
Naphthalene	2.0	U	2.4	U	ug/L		NC	35
Phenanthrene	0.51	U	0.59	U	ug/L		NC	35
Pyrene	0.51	U	0.59	U	ug/L		NC	35

Surrogate	DU %Recovery	DU Qualifier	Limits
<i>o</i> -Terphenyl	61		30 - 130

# QC Association Summary

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## GC/MS Semi VOA

### Prep Batch: 136462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	3546	
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	3546	
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	3546	
680-89275-5	CV1086A-CS	Total/NA	Solid	3546	
680-89275-6	CV1086B-GS	Total/NA	Solid	3546	
680-89275-7	CV1086C-GS	Total/NA	Solid	3546	
680-89275-8	CV01088A-CS	Total/NA	Solid	3546	
680-89275-9	CV01088B-GS	Total/NA	Solid	3546	
680-89275-10	CV1090A-CS	Total/NA	Solid	3546	
680-89275-10 - DL	CV1090A-CS	Total/NA	Solid	3546	
680-89275-11	CV1090A-CSD	Total/NA	Solid	3546	
680-89275-12	CV1091A-CS	Total/NA	Solid	3546	
680-89275-13	CV1357A-CS	Total/NA	Solid	3546	
680-89275-14	CV1357B-CS	Total/NA	Solid	3546	
680-89275-15	CV0050A-CS-SP	Total/NA	Solid	3546	
680-89275-16	CV0050B-CS-SP	Total/NA	Solid	3546	
680-89275-17	CV0133A-CS-SP	Total/NA	Solid	3546	
680-89275-18	CV0133B-CS-SP	Total/NA	Solid	3546	
680-89275-19	CV0318A-CS-SP	Total/NA	Solid	3546	
680-89275-20	CV0318B-CS-SP	Total/NA	Solid	3546	
LCS 660-136462/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136462/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 136534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-1	04113-RB-Bowls + Spoons	Total/NA	Water	3520C	
680-89275-1 DU	04113-RB-Bowls + Spoons	Total/NA	Water	3520C	
LCS 660-136534/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 660-136534/1-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 136590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	8270C LL	136462
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	8270C LL	136462
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	8270C LL	136462
680-89275-5	CV1086A-CS	Total/NA	Solid	8270C LL	136462
680-89275-6	CV1086B-GS	Total/NA	Solid	8270C LL	136462
680-89275-7	CV1086C-GS	Total/NA	Solid	8270C LL	136462
680-89275-8	CV01088A-CS	Total/NA	Solid	8270C LL	136462
680-89275-9	CV01088B-GS	Total/NA	Solid	8270C LL	136462
680-89275-10	CV1090A-CS	Total/NA	Solid	8270C LL	136462
680-89275-10 - DL	CV1090A-CS	Total/NA	Solid	8270C LL	136462
680-89275-11	CV1090A-CSD	Total/NA	Solid	8270C LL	136462
680-89275-12	CV1091A-CS	Total/NA	Solid	8270C LL	136462
680-89275-13	CV1357A-CS	Total/NA	Solid	8270C LL	136462
680-89275-14	CV1357B-CS	Total/NA	Solid	8270C LL	136462
680-89275-15	CV0050A-CS-SP	Total/NA	Solid	8270C LL	136462
680-89275-16	CV0050B-CS-SP	Total/NA	Solid	8270C LL	136462
680-89275-17	CV0133A-CS-SP	Total/NA	Solid	8270C LL	136462
680-89275-18	CV0133B-CS-SP	Total/NA	Solid	8270C LL	136462
680-89275-19	CV0318A-CS-SP	Total/NA	Solid	8270C LL	136462

TestAmerica Savannah

# QC Association Summary

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

TestAmerica Job ID: 680-89275-1  
SDG: 68089275-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 136590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-20	CV0318B-CS-SP	Total/NA	Solid	8270C LL	136462
LCS 660-136462/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136462
MB 660-136462/1-A	Method Blank	Total/NA	Solid	8270C LL	136462

### Analysis Batch: 136605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-1	04113-RB-Bowls + Spoons	Total/NA	Water	8270C LL	136534
680-89275-1 DU	04113-RB-Bowls + Spoons	Total/NA	Water	8270C LL	136534
LCS 660-136534/2-A	Lab Control Sample	Total/NA	Water	8270C LL	136534
MB 660-136534/1-A	Method Blank	Total/NA	Water	8270C LL	136534

## General Chemistry

### Analysis Batch: 136437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-13	CV1357A-CS	Total/NA	Solid	Moisture	
680-89275-14	CV1357B-CS	Total/NA	Solid	Moisture	
680-89275-15	CV0050A-CS-SP	Total/NA	Solid	Moisture	
680-89275-16	CV0050B-CS-SP	Total/NA	Solid	Moisture	
680-89275-17	CV0133A-CS-SP	Total/NA	Solid	Moisture	
680-89275-18	CV0133B-CS-SP	Total/NA	Solid	Moisture	
680-89275-19	CV0318A-CS-SP	Total/NA	Solid	Moisture	
680-89275-20	CV0318B-CS-SP	Total/NA	Solid	Moisture	

### Analysis Batch: 136438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	Moisture	
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	Moisture	
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	Moisture	
680-89275-5	CV1086A-CS	Total/NA	Solid	Moisture	
680-89275-6	CV1086B-GS	Total/NA	Solid	Moisture	
680-89275-7	CV1086C-GS	Total/NA	Solid	Moisture	
680-89275-8	CV01088A-CS	Total/NA	Solid	Moisture	
680-89275-9	CV01088B-GS	Total/NA	Solid	Moisture	
680-89275-10	CV1090A-CS	Total/NA	Solid	Moisture	
680-89275-11	CV1090A-CSD	Total/NA	Solid	Moisture	
680-89275-12	CV1091A-CS	Total/NA	Solid	Moisture	
LCS 660-136438/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-136438/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

# Lab Chronicle

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: 04113-RB-Bowls + Spoons

Lab Sample ID: 680-89275-1

Date Collected: 04/11/13 08:10

Matrix: Water

Date Received: 04/12/13 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			136534	04/17/13 12:20	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 15:22	SCC	TAL TAM

## Client Sample ID: CV0877A-CS

Lab Sample ID: 680-89275-2

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 11:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 07:46	AG	TAL TAM

## Client Sample ID: CV1086A-CS

Lab Sample ID: 680-89275-5

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136590	04/17/13 12:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 09:15	AG	TAL TAM

## Client Sample ID: CV1086B-GS

Lab Sample ID: 680-89275-6

Date Collected: 04/10/13 10:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136590	04/17/13 12:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 09:36	AG	TAL TAM

## Client Sample ID: CV1086C-GS

Lab Sample ID: 680-89275-7

Date Collected: 04/10/13 10:10

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136590	04/17/13 13:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 09:51	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: CV01088A-CS

Lab Sample ID: 680-89275-8

Date Collected: 04/10/13 09:20

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 13:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 09:49	AG	TAL TAM

## Client Sample ID: CV01088B-GS

Lab Sample ID: 680-89275-9

Date Collected: 04/10/13 09:30

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 60.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 13:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 10:45	AG	TAL TAM

## Client Sample ID: CV1090A-CS

Lab Sample ID: 680-89275-10

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136590	04/17/13 13:58	SCC	TAL TAM
Total/NA	Prep	3546	DL		136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	136590	04/17/13 18:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 10:27	AG	TAL TAM

## Client Sample ID: CV1090A-CSD

Lab Sample ID: 680-89275-11

Date Collected: 04/10/13 08:40

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 14:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 10:52	AG	TAL TAM

## Client Sample ID: CV1091A-CS

Lab Sample ID: 680-89275-12

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 56.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 14:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136438	04/15/13 11:33	AG	TAL TAM

TestAmerica Savannah



# Lab Chronicle

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: CV1357A-CS

Lab Sample ID: 680-89275-13

Date Collected: 04/10/13 13:25

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 14:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

## Client Sample ID: CV1357B-CS

Lab Sample ID: 680-89275-14

Date Collected: 04/10/13 13:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136590	04/17/13 15:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

## Client Sample ID: CV0050A-CS-SP

Lab Sample ID: 680-89275-15

Date Collected: 04/10/13 10:45

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 15:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

## Client Sample ID: CV0050B-CS-SP

Lab Sample ID: 680-89275-16

Date Collected: 04/10/13 10:56

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 15:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

## Client Sample ID: CV0133A-CS-SP

Lab Sample ID: 680-89275-17

Date Collected: 04/10/13 09:48

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 16:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

## Client Sample ID: CV0133B-CS-SP

Lab Sample ID: 680-89275-18

Date Collected: 04/10/13 10:05

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 16:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

## Client Sample ID: CV0318A-CS-SP

Lab Sample ID: 680-89275-19

Date Collected: 04/10/13 14:35

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 68.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 16:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

## Client Sample ID: CV0318B-CS-SP

Lab Sample ID: 680-89275-20

Date Collected: 04/10/13 14:45

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 17:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	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>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i>	OF <i>3</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*  
*REPAH Metals*

STANDARD REPORT DELIVERY

DATE DUE \_\_\_\_\_

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE \_\_\_\_\_

**PRESERVATIVE**

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>4-11-13</i>	<i>0810</i>	<i>041113-RB - Bowls &amp; Spoons</i>	<i>X</i>					<i>X</i>	<i>X</i>													
<i>4-10-13</i>	<i>1415</i>	<i>CV 0877A - CS</i>	<i>R</i>	<i>X</i>				<i>X</i>	<i>X</i>													
	<i>1300</i>	<i>CV 0951A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>														<i>Cancel per cent 4-12-13 (LMP)</i>
	<i>1300</i>	<i>CV 0951A - CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>														<i>Cancel per cent 4-12-13 (LMP)</i>
	<i>0950</i>	<i>CV 1086A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>													
	<i>1000</i>	<i>CV 1086B - GS</i>	<i>G</i>	<i>X</i>				<i>X</i>														
	<i>1010</i>	<i>CV 1086C - GS</i>	<i>G</i>	<i>X</i>				<i>X</i>														
	<i>0920</i>	<i>CV 1088A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>														
	<i>0930</i>	<i>CV 1088B - GS</i>	<i>G</i>	<i>X</i>				<i>X</i>														
	<i>0840</i>	<i>CV 1090A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>														
	<i>0840</i>	<i>CV 1090A - CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>														
	<i>0900</i>	<i>CV 1091A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>													

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-11-13</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

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/12/13</i>	TIME <i>0950</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>89275</i>	LABORATORY REMARKS <i>2.2</i>
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11/23/13





## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

SDG Number: 68089275-1

**Login Number: 89275**

**List Number: 1**

**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-1

SDG Number: 68089275-1

**Login Number: 89275**

**List Number: 1**

**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**

**List Creation: 04/13/13 11:04 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Certification Summary

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

TestAmerica Job ID: 680-89275-1  
 SDG: 68089275-1

### 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: 680-89275-1  
SDG: 68089275-1

## 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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